

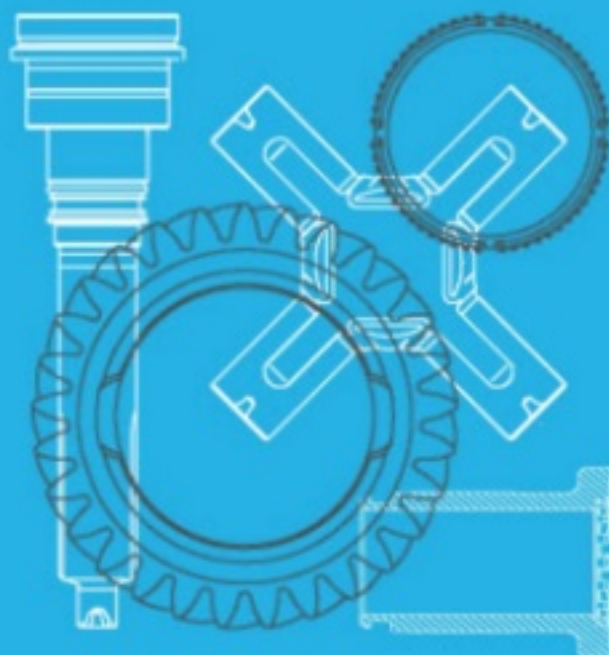
195



**CEI**

HIGH FIDELITY SPARE PARTS

**Z.F. Ecosplit**



n°  
**195**



Marzo 2006

3/3

**S P A R E P A R T S**

# CERTIFICATE



Certificato Nr 50 100 3413

Si attesta che / *This is to certify that*

IL SISTEMA QUALITÀ DI  
THE QUALITY SYSTEM OF

**C.E.I.**

**COSTRUZIONE EMILIANA INGRANAGGI SPA**

VIA EMILIA 239

I-40011 ANZOLA EMILIA (BO)

È CONFORME AI REQUISITI DELLA NORMA  
*HAS BEEN FOUND TO CONFORM TO THE REQUIREMENTS OF*

**UNI EN ISO 9001:2000**

Questo certificato è valido per il seguente campo di applicazione  
*This certificate is valid for the following product or service range*

**Progettazione, produzione e assemblaggi di parti ed  
accessori di ricambio per veicoli industriali (EA 22a)**

***Design, manufacture, and assembling of spare parts  
and accessories for industrial vehicles (EA 22a)***

Data/date  
**2003-10-21**

Lead Auditor: Roberto Cioni

Data di scadenza/Expiry date  
**2006-10-10**

**SINCERT**  
ACCREDITAMENTO ORGANISMI DI CERTIFICAZIONE E ISPEZIONE

SGO N° 049A  
SGA N° 018D

Membro di MLA EA per gli schemi di accreditamento SGO, SGA, PRD e PRS  
e di MLA IAF per gli schemi di accreditamento SGO, SGA e PRD  
Signatory of EA MLA for the accreditation schemes QMS, EMS, Product and Personnel  
and of IAF MLA for the accreditation schemes QMS, EMS and Product

Per l'Organismo di Certificazione  
For the Certification Body  
**TÜV Italia S.r.l.**  
Cinisello Balsamo (MI)

**Nico Mastrorillo**  
Management Representative



# ELENCO CATALOGHI DISPONIBILI PER LE SEGUENTI GAMME DI NOSTRA PRODUZIONE

LIST OF THE AVAILABLE CATALOGUES FOR THE FOLLOWING PRODUCTION LINES  
LISTE DES CATALOGUES DISPONIBLES POUR LES GAMMES DE PRODUCTION SUIVANTES  
KATALOGE FÜR DIE FOLGENDEN PRODUKTION LINIEN  
LISTADO DE LOS CATALOGOS PARA LAS LINEAS SIGUIENTES



400.001 IVECO



400.025 DAF Axles



400.050 MERCEDES



400.055 M.A.N. Axles



400.075 RENAULT V.I.



400.080 SCANIA



400.090 VOLVO



400.095 ZF Old Range



400.195 ZF Ecosplit



400.295 ZF Ecomid



400.901 Ricambi



Figures part denominations references and data contained in this catalogue are not binding.  
CEI reserves the right to introduce any changes at any time without prior notice.

Le figure, le denominazioni, i riferimenti ed i dati contenuti nel presente catalogo non sono impegnativi.  
La CEI si riserva di apportare in ogni momento e senza preavviso tutte le variazioni che riterrà opportune.

Les figures, les dénominations, les références et les spécifications contenues dans ce catalogue ne sont pas engageantes.  
La CEI se réserve le droit d'apporter à tout moment et sans préavis les variantes éventuelles qu'elle croit utiles.

Die in diesem Katalog enthaltenen Abbildungen, Benennungen, Zeichen und Angaben sind unverbindlich.  
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Las figuras, las denominaciones, las referencias y los datos contenidos en el presente catálogo no son empeñativos.  
CEI puede hacer en cada momento y sin preaviso todas las variaciones que sean oportunas.

#### **INTERCHANGEABILITY GUARANTY**

Our spare parts are interchangeable with the original ones; our products bear our trade-mark.  
The original part numbers listed in this catalogue are for reference only.

#### **GARANZIA DI INTERCambiABILITÀ**

I nostri ricambi sono intercambiabili con gli originali; la nostra produzione riporta il nostro marchio.  
I riferimenti originali sono esposti a semplice titolo indicativo.

#### **GARANTIE D'INTERCHANGEABILITE**

Nos pièces détachées sont interchangeables avec les originaux.  
Notre production porte notre marque.  
Les numéros originaux mentionnés dans ce catalogue sont seulement à titre indicatif.

#### **AUSTAUSCHBARKEITS-GARANTIE**

Unsere ersatzteile sind austauschbar mit den Originalzahnradern.  
Auf unseren Erzeugnissen ist unsere Schutzmarke aufgetragen.  
Die im gegenwärtigen Katalog genannten Originalnummern nur zum Hinweis dienen.

#### **GARANTIA DE INTERCambiABILIDAD**

Nuestros recambios son intercambiables con los originales.  
Todos nuestros productos, llevan grabada nuestra marca.  
Las referencias originales impresas en nuestro catálogo figuran exclusivamente a título indicativo.

---

**Suitable To :**

---

**ZF ÷ Mercedes**

**ZF ÷ M.a.n.**

**ZF ÷ Iveco**

**ZF ÷ Renault V.I.**

**ZF ÷ Daf**

**ZF ÷ Volvo**

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Suitable to: **Mercedes**

---

# Gearboxes Index

**MERCEDES**  
INDEX

## **EcoSplit I**

**16K130**

**16K160**

**16K190**

**16S112**

**16S130**

**16S160**

**16S190**

## **EcoSplit II**

**16S220**





suitable to :

**Z.F.****EcoSplit I****From 16K130 to 16K190****ECO I**  
From 16K130  
To 16K190**Application**

	16K130	16K160	16K190
	(1295)	(1297)	(1297)
<b>MERCEDES</b>			
<b>M.A.N.</b>			
<b>IVECO</b>			
<b>R.V.I.</b>			
<b>DAF</b>			
<b>VOLVO</b>			

**Ratios**

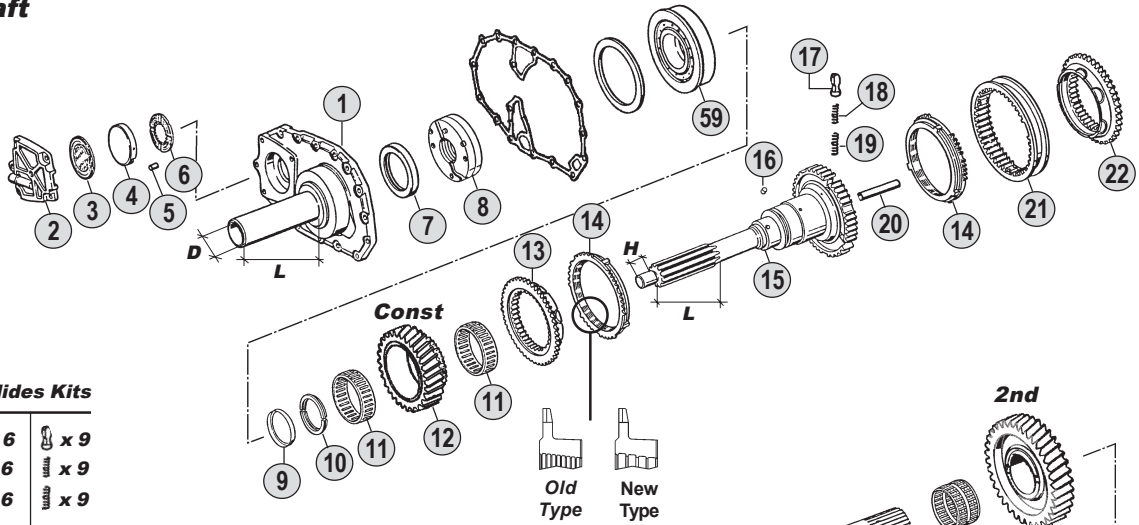
	R.11,46-0,85	R.13,68-1,00	R.14,29-0,82
	A	B	C
<b>16K130</b>			
<b>16K160</b>			
<b>16K190</b>			

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Suitable To : **ZF**

**16K130 - 16K160 - 16K190**

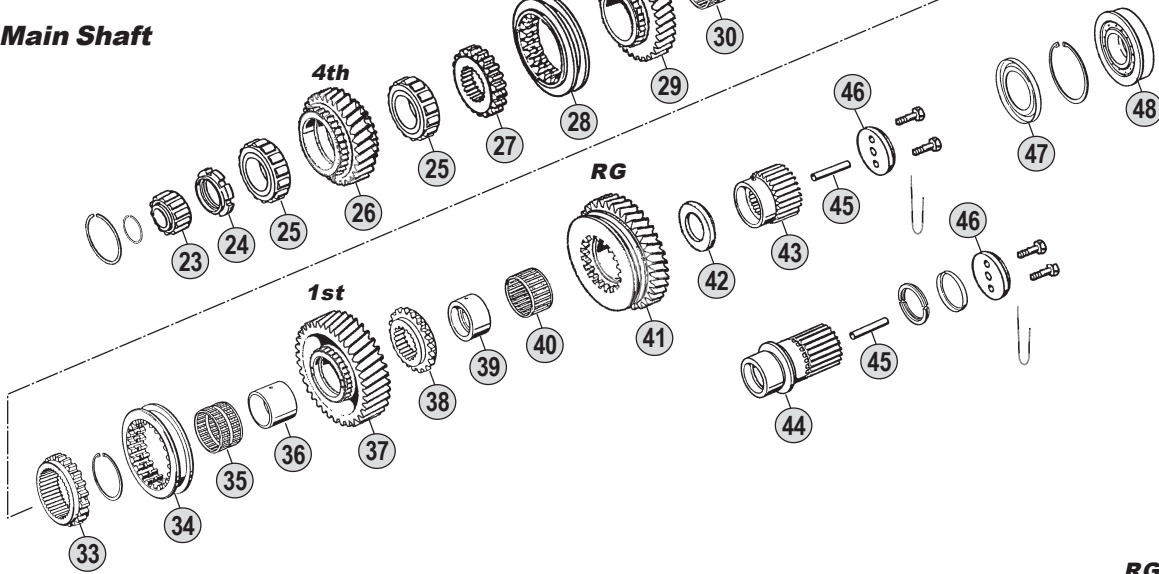
**Input Shaft**



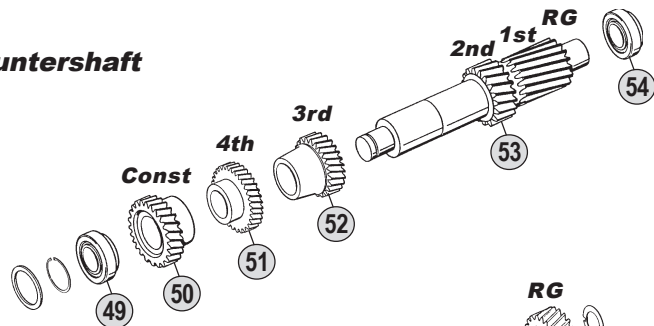
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 60</b>	<b>Kit 61</b>	<b>Kit 62</b>

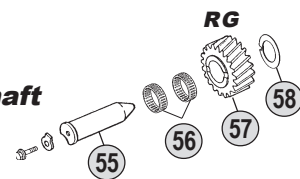
**Main Shaft**



**Countershaft**



**Reverse Shaft**



**Ratios**

<b>16K130</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K160</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K190</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --

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16K130 (1295)  
16K160 (1297)  
16K190 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	MB no.					16K130 (1295)	16K160 (1297)	16K190 (1297)				
1		1297 302 018	000 262 4629	Front Cover	1	L=170 D=54	●	●						
1		1297 302 053	000 262 4329	Front Cover	1	L=170 D=60	●	●	●					
2		1295 303 030	000 255 0232	Cover	1		●	●	●					
3		0750 190 012	343 264 0547	Disk	1		●	●	●					
4		1268 303 062	000 255 0031	Piston	1		●	●	●					
5		0731 302 032	000 264 1074	Pin	1		●	●	●					
6		1268 203 059	000 255 0401	Washer	1		●	●	●					
7		0750 111 002	008 997 3847	Oil Seal 48x75x8	1		●							
7		0634 310 733	006 997 0146	Oil Seal 90x110x13	1	(1)	●							
7		0734 310 386	023 997 9447	Oil Seal 55x75x8	1			●	●					
8	<b>280.348</b>	1295 202 041	000 260 1290	Oil Pump	1		●	●	●					
9	169.754	0730 061 816	000 262 0673	Securing Ring	1		●	●	●					
9	169.755	0730 062 579	000 262 1073	Securing Ring	1	S.4,20 mm	●	●	●					
10		0730 103 244	000 262 1530	Split Ring T.4,30 mm	1	S.4,30 mm (4)	●	●	●					
10		0730 103 935	000 262 4230	Split Ring T.3,80 mm	1	S.3,80 mm (4)	●	●	●					
10		0730 105 156	000 262 4430	Split Ring T.4,00 mm	1	S.4,00 mm (5)	●	●	●					
10		0730 105 154	000 262 4630	Split Ring T.3,80 mm	1	S.3,80 mm (5)	●	●	●					
11	137.082	0735 320 786	005 981 9801	Needle Cage D.88x96x24,50	2		●							
11	137.153	0735 320 896	013 981 1610	Needle Cage D.88x96x29	2			●	●					
12	145.489	1295 302 070	000 262 5210	Constant Gear 30 T	1			●						
12	<b>145.276</b>	1295 302 071	000 262 4010	Constant Gear 28 T	1			●						
12	145.541	1295 302 122		Constant Gear 29 T	1			●						
12	<b>145.466</b>	1297 302 177	000 262 4610	Constant Gear 30 T	1				●	●				
12	<b>145.406</b>	1297 302 176	000 262 4510	Constant Gear 28 T	1				●	●				
12	<b>145.405</b>	1297 302 250	000 262 5810	Constant Gear 29 T	1				●	●				
13	<b>109.072</b>	1295 304 278	000 262 1940	Synchronizer Cone	1			●	●	●				
14	<b>119.084</b>	1295 304 004	000 262 2034	Synchronizer Ring	2	Old Type		●	●	●				
14	<b>119.175</b>	1304 304 686	000 262 9934	Synchronizer Ring	2	New Type		●	●	●				
15	102.230	1295 202 004	001 262 1802	Input Shaft	1	L=115 H=32		●						
15		1295 221 001	001 262 1302	Input Shaft	1	NMV130(Clutch PTO)		●						
15	<b>102.223</b>	1297 202 053	001 262 2802	Input Shaft	1	L=125 H=30			●	●				
16		0635 470 012	005 402 007 200	Pin	1			●	●	●				
17	<b>160.116</b>	1240 304 278	336 264 0239	Pressure piece	3			●	●	●				
18	<b>156.036</b>	0732 040 386	336 264 0793	Inner Spring De.3x34	3			●	●	●				
19	<b>156.037</b>	0732 040 385	336 264 0693	Outer Spring De.6x34	3			●	●	●				
20	188.208	0730 062 323	000 261 0766	Oil Tube	1			●	●	●				
21	<b>154.097</b>	1295 304 002	000 262 3623	Sliding Sleeve	1			●	●	●				
22	<b>109.072</b>	1295 304 278	000 262 1940	Synchronizer Cone	1			●	●	●				
23	137.081	0750 118 010	001 981 9912	Roller Cage D.30x60x25,50	1			●						
23	137.113	0750 118 038	004 981 8001	Roller Cage D.35x68x27,50	1				●	●				
24	187.588	3081 303 063		Grooved Nut M50x1,5	1			●						
24	187.412	0737 502 092	000 990 2360	Grooved Nut M60x1,5	1				●	●				
25		0750 118 017		Bearing D.55x90x33	2			●						
25	137.083	0750 118 005	004 981 7801	Roller Cage D.63x97,5x34,80	2				●	●				
26	146.464	1295 304 181		Gear 4th Speed 28 T	1			●						

## Notes

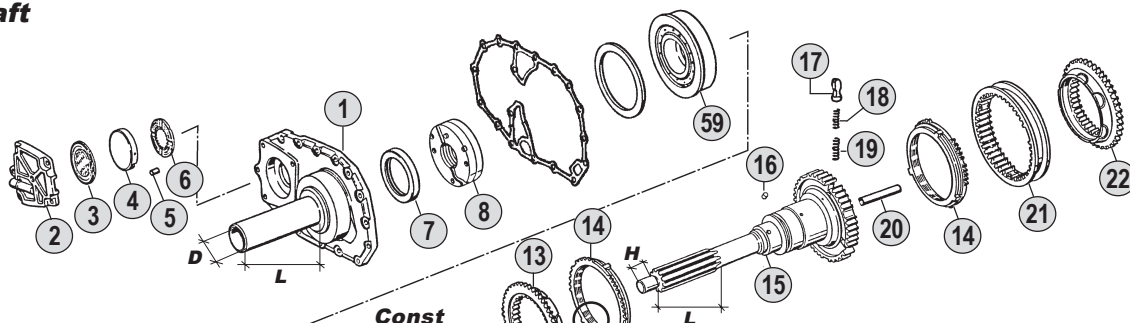
- (1) Only for input Shaft 1295 221 001  
 (4) To be coupled together with Fig. 9 - 0730 061 816  
 (5) To be coupled together with Fig. 9 - 0730 062 579  
 (7) Only for models having MNV130 ( clutch PTO)

## Date

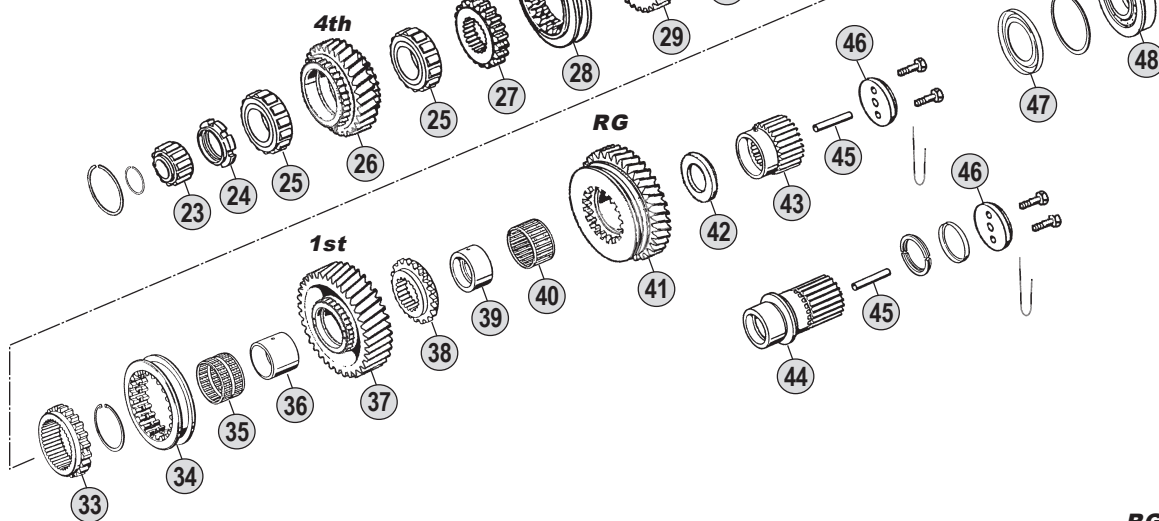
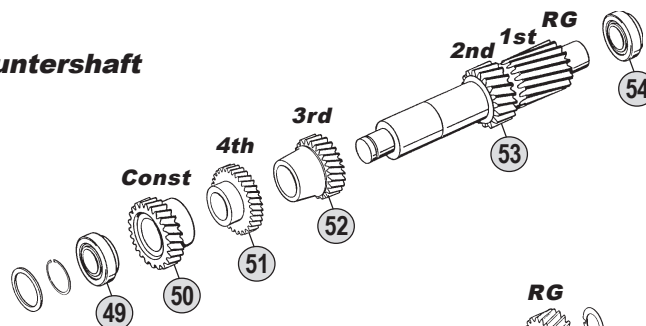
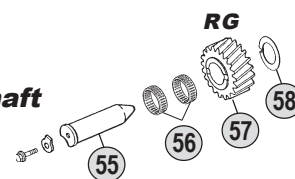
03 / 2006

## Table

001 / A

Suitable To : **ZF****16K130 - 16K160 - 16K190****Input Shaft****Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 60</b>	<b>Kit 61</b>	<b>Kit 62</b>

**Main Shaft****Countershaft****Reverse Shaft****Ratios**

<b>16K130</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K160</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K190</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --

16K130 (1295)  
16K160 (1297)  
16K190 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	MB no.					16K130 (1295)	16K160 (1297)	16K190 (1297)				
26	146.465	1295 304 182		Gear 4th Speed 30 T	1		B	●						
26	146.466	1295 304 303		Gear 4th Speed 26 T	1		C	●						
26	145.529	1297 304 128		Gear 4th Speed 28 T	1		A	●						
26	<b>145.420</b>	1297 304 127	000 262 3214	Gear 4th Speed 30 T	1		B	●						
26	145.530	1297 304 258		Gear 4th Speed 29 T	1		C	●						
26		1297 304 308		Gear 4th Speed 28 T	1		A		●					
26		1297 304 274	000 262 4114	Gear 4th Speed 30 T	1		B		●					
26		1297 304 380		Gear 4th Speed 29 T	1		C		●					
27	157.208	1295 304 234		Fixed Hub 3rd-4th Speed	1			●						
27	<b>157.195</b>	1297 304 188	000 262 2227	Fixed Hub 4th-5th Speed	1			●	●					
28	154.211	1295 304 179		Sliding Sleeve 3rd-4th Speed	1			●						
28	<b>154.189</b>	1297 304 120	000 262 5023	Sliding Sleeve	1			●	●					
29	145.551	1295 304 188		Gear 3rd Speed 32 T	1		AC	●						
29	145.552	1295 304 187		Gear 3rd Speed 34 T	1		B	●						
29	145.531	1297 304 116		Gear 3rd Speed 32 T	1		AC		●					
29	<b>145.468</b>	1297 304 115	000 262 4713	Gear 3rd Speed 34 T	1		B		●					
29		1297 304 279		Gear 3rd Speed 32 T	1		AC		●					
29		1297 304 273	000 262 6113	Gear 3rd Speed 34 T	1		B		●					
30	137.158	0735 320 460	010 981 3010	Needle Cage D.82x90x46	2			●						
30	137.084	0735 320 418	010 981 3510	Needle Cage D.82x90x49	2				●	●				
31	103.141	1295 304 243		Main Shaft	1		AB	●						
31	103.142	1295 304 304		Main Shaft	1		C	●						
31	103.134	1297 304 179	000 262 3605	Main Shaft	1		AB		●	●				
31	103.139	1297 304 264		Main Shaft	1		C		●	●				
32	145.547	1295 304 185		Gear 2nd Speed 37 T	1		AC	●						
32	145.546	1295 304 184		Gear 2nd Speed 38 T	1		B	●						
32	145.532	1297 304 113		Gear 2nd Speed 37 T	1		AC		●					
32	<b>145.467</b>	1297 304 112	000 262 3912	Gear 2nd Speed 38 T	1		B		●					
32		1297 304 278		Gear 2nd Speed 37 T	1		AC		●					
32		1297 304 271	000 262 5412	Gear 2nd Speed 38 T	1		B		●					
33	<b>157.197</b>	1295 304 235	000 262 2127	Fixed Hub 1st-2nd Speed	1			●	●	●				
34	154.212	1295 304 178		Sliding Sleeve 1st-2nd Speed	1			●						
34	<b>154.188</b>	1297 304 119	000 262 4923	Sliding Sleeve	1			●	●					
35		0735 320 461		Needle Cage D.72x80x46	1			●						
35	137.161	0735 320 568	011 981 3010	Needle Cage D.82x90x53	1				●	●				
36	117.317	1297 304 055	000 262 3050	Bush	1				●	●				
37	145.548	1295 304 204		Gear 1st Speed 44 T	1		AC	●						
37	145.550	1295 304 205		Gear 1st Speed 47 T	1		B	●						
37	145.534	1297 304 151		Gear 1st Speed 44 T	1		AC		●					
37	<b>145.469</b>	1297 304 150	000 262 6811	Gear 1st Speed 47 T	1		B		●					
37		1297 304 277		Gear 1st Speed 44 T	1		AC		●					
37		1297 304 272	000 262 8311	Gear 1st Speed 47 T	1		B		●					
38	109.075	1295 304 206	000 262 1540	Engaging Ring	1			●						
38	109.178	1297 304 154	000 262 1640	Engaging Ring	1				●	●				
39	117.203	1295 304 012	000 262 2050	Bush D.60x75x38	1		AB	●						

## Notes

- (1) Only for input Shaft 1295 221 001  
(4) To be coupled together with Fig. 9 - 0730 061 816  
(5) To be coupled together with Fig. 9 - 0730 062 579  
(7) Only for models having MNV130 ( clutch PTO)

## Date

03 / 2006

## Table

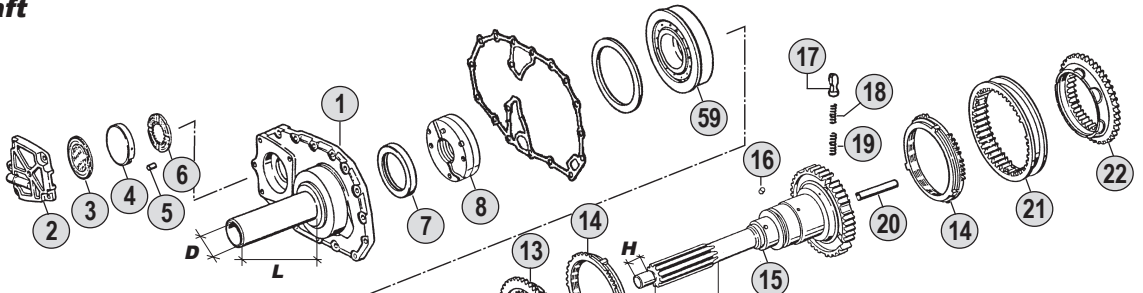
001 / A

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Suitable To : **ZF**

**16K130 - 16K160 - 16K190**

**Input Shaft**



**Springs & Slides Kits**

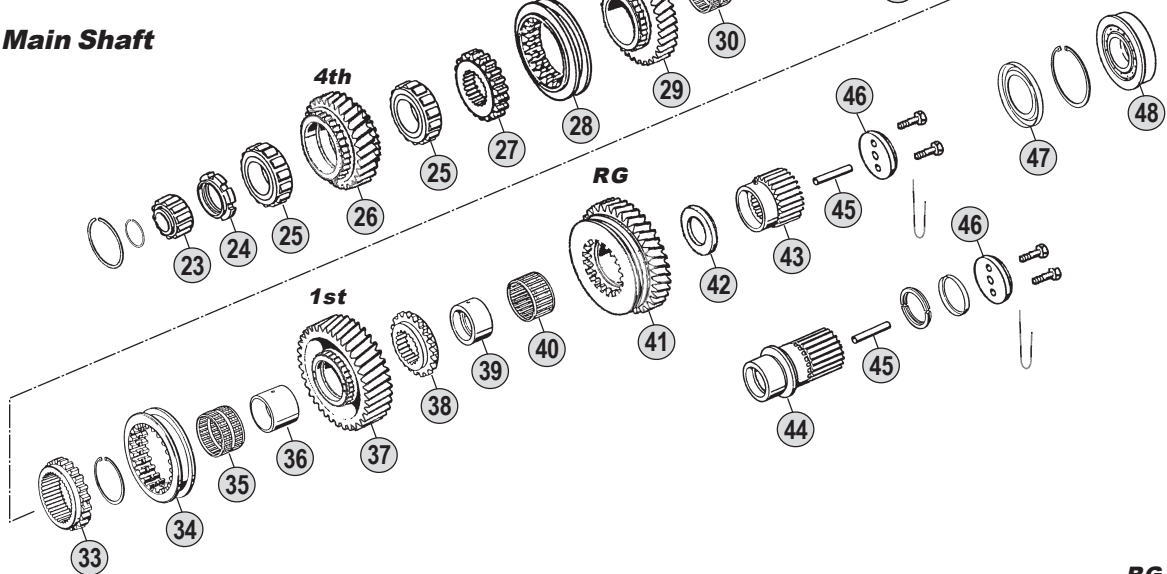
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 60</b>	<b>Kit 61</b>	<b>Kit 62</b>

**Const**

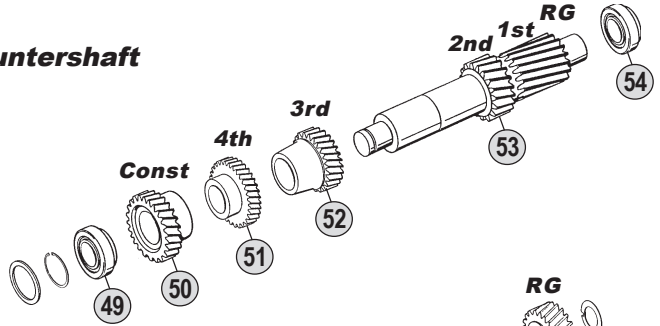
Old Type  
New Type

**2nd**

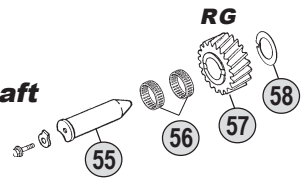
**Main Shaft**



**Countershaft**



**Reverse Shaft**



**Ratios**

<b>16K130</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K160</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K190</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --

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16K130 (1295)  
16K160 (1297)  
16K190 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	MB no.					16K130 (1295)	16K160 (1297)	16K190 (1297)			
39	117.318	1297 304 034	000 262 2350	Bush	1		AB	●	●				
40	137.086	0750 115 059	010 981 3210	Needle Cage D.75x83x40	1			●					
40	137.111	0735 320 486	010 981 3910	Needle Cage D.78x86x44	1			●	●				
41	147.138	1295 304 201	000 262 9111	Reverse Gear 39 T	1		AC	●					
41	147.093	1295 304 200	000 262 5111	Reverse Gear 38 T	1		B	●					
41	147.109	1297 304 149	000 262 8611	Reverse Gear 39 T	1		AC		●	●			
41	147.140	1297 304 148	000 262 5311	Reverse Gear 38 T	1		B		●	●			
42		1295 304 241		Thrust Washer	1		AB	●					
42	169.758	1297 304 177	000 262 4662	Thrust Washer	1		AB		●				
43	157.211	1295 304 247	000 262 0109	Sun Gear 27 T	1		AB	●					
43	157.177	1297 304 187	000 262 0309	Sun Gear 27 T	1		AB		●	●			
44	157.207	1295 304 251		Sun Gear 24 T	1		C	●					
44	157.206	1297 304 265		Sun Gear 24 T	1		C		●	●			
45		0730 061 842	000 262 1253	Oil Tube	1			●	●	●			
46	188.076	1272 304 021	000 262 2762	Stop Washer	1			●	●	●			
47		1295 304 129	000 261 0165	Oil Collector	1		AB	●	●	●			
47		1297 301 004	000 261 0265	Oil Collector	1		C	●	●	●			
48	130.240	0750 118 153	002 980 1002	Bearing D.60x130x31	1		AB	●	●				
48		0750 118 137		Bearing 80x140x26	1		C	●	●				
48	130.240	0750 118 153	002 980 1002	Bearing D.60x130x31	1		AB			●			
48		0750 118 181		Bearing 80x140x26	1		C			●			
49	130.242	0750 117 010	001 980 8102	Bearing D.50,80x100x35	1			●	●	●			
50	146.354	1295 303 036	000 263 8410	Constant Gear 31 T	1		A	●					
50	146.210	1295 303 101	000 263 7110	Constant Gear 34 T	1		B	●					
50	146.457	1295 303 060		Constant Gear 32 T	1		C	●					
50	146.383	1297 303 074	000 263 6910	Constant Gear 31 T	1		A		●	●			
50	146.322	1297 303 066	000 263 6610	Constant Gear 34 T	1		B		●	●			
50	146.319	1297 303 098	001 263 0510	Constant Gear 32 T	1		C		●	●			
51	146.413	1295 303 028	000 263 8510	Gear 4th Speed 34 T	1		A	●					
51	146.209	1295 303 027	000 263 3610	Gear 4th Speed 31 T	1		B	●					
51	146.461	1295 303 094		Gear 4th Speed 35 T	1		C	●					
51	146.382	1297 303 072	000 263 7010	Gear 4th Speed 34 T	1		A		●	●			
51	146.381	1297 303 065	000 263 6510	Gear 4th Speed 31 T	1		B		●	●			
51	146.447	1297 303 114		Gear 4th Speed 39 T	1		C		●	●			
52	146.467	1295 303 005		Gear 3rd Speed 28 T	1		AC	●					
52	146.468	1295 303 006		Gear 3rd Speed 25 T	1		B	●					
52	146.446	1297 303 081		Gear 3rd Speed 28 T	1		AC		●	●			
52	146.380	1297 303 077	000 263 6710	Gear 3rd Speed 25 T	1		B		●	●			
53	105.120	1295 303 056		Countershaft 19-23 T	1		AC	●					
53		1295 303 089		Countershaft 19-23 T	1	(7)	AC	●					
53	105.122	1295 303 055		Countershaft 17-20 T	1		B	●					
53	105.116	1297 303 048		Countershaft 19-23 T	1		AC		●				
53		1297 303 070		Countershaft 19-23 T	1	(7)	AC		●				
53	105.091	1297 303 047	000 263 3302	Countershaft 17-20 T	1		B		●				
53		1297 303 080		Countershaft	1		AC			●			

## Notes

- (1) Only for input Shaft 1295 221 001  
 (4) To be coupled together with Fig. 9 - 0730 061 816  
 (5) To be coupled together with Fig. 9 - 0730 062 579  
 (7) Only for models having MNV130 ( clutch PTO)

## Date

03 / 2006

## Table

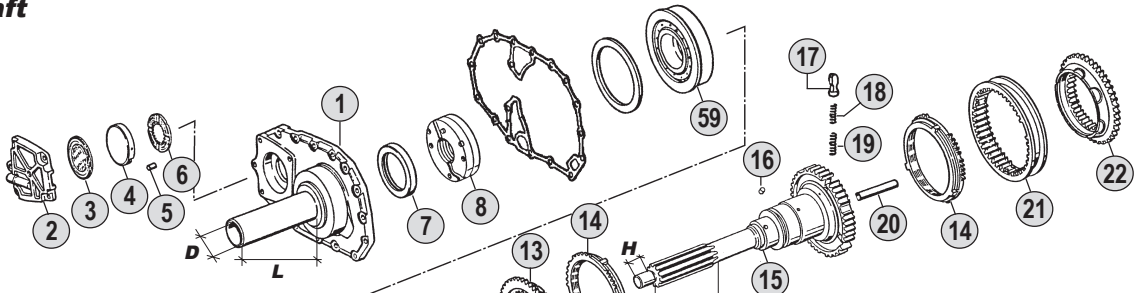
001 / A

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Suitable To : **ZF**

**16K130 - 16K160 - 16K190**

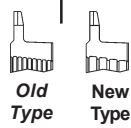
**Input Shaft**



**Springs & Slides Kits**

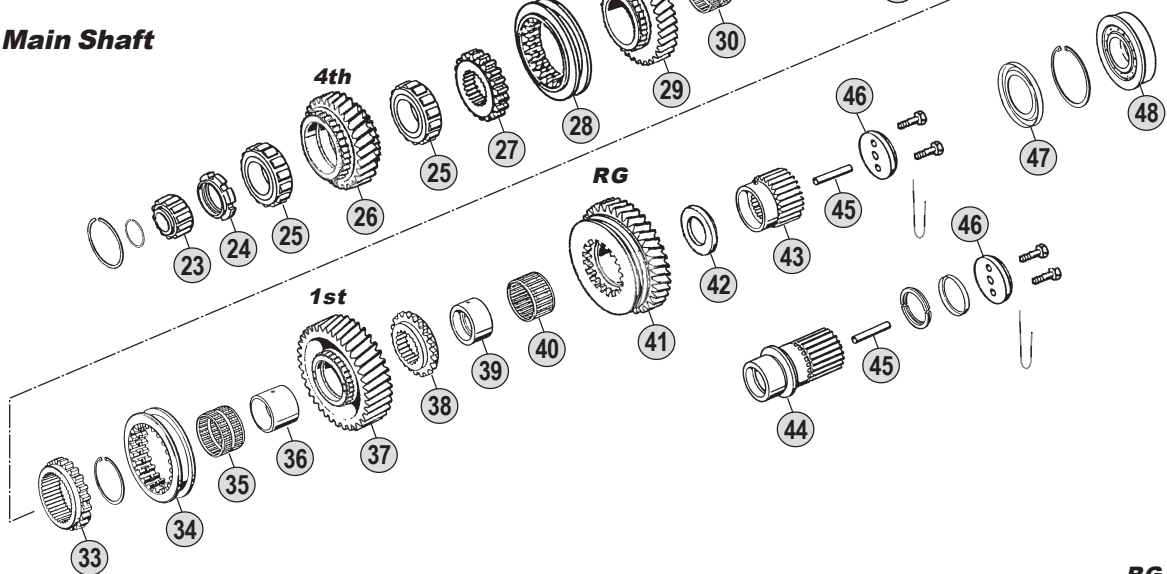
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 60</b>	<b>Kit 61</b>	<b>Kit 62</b>

**Const**

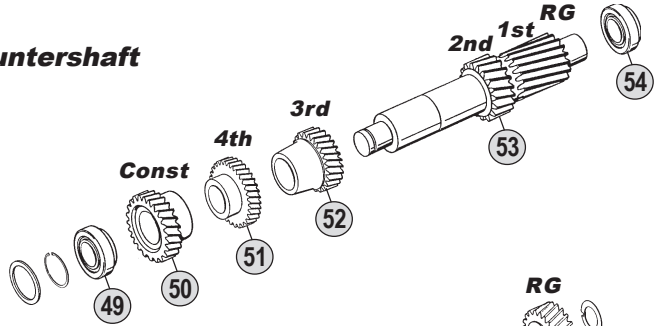


**2nd**

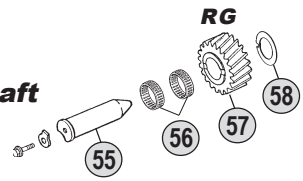
**Main Shaft**



**Countershaft**



**Reverse Shaft**



**Ratios**

<b>16K130</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K160</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K190</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --

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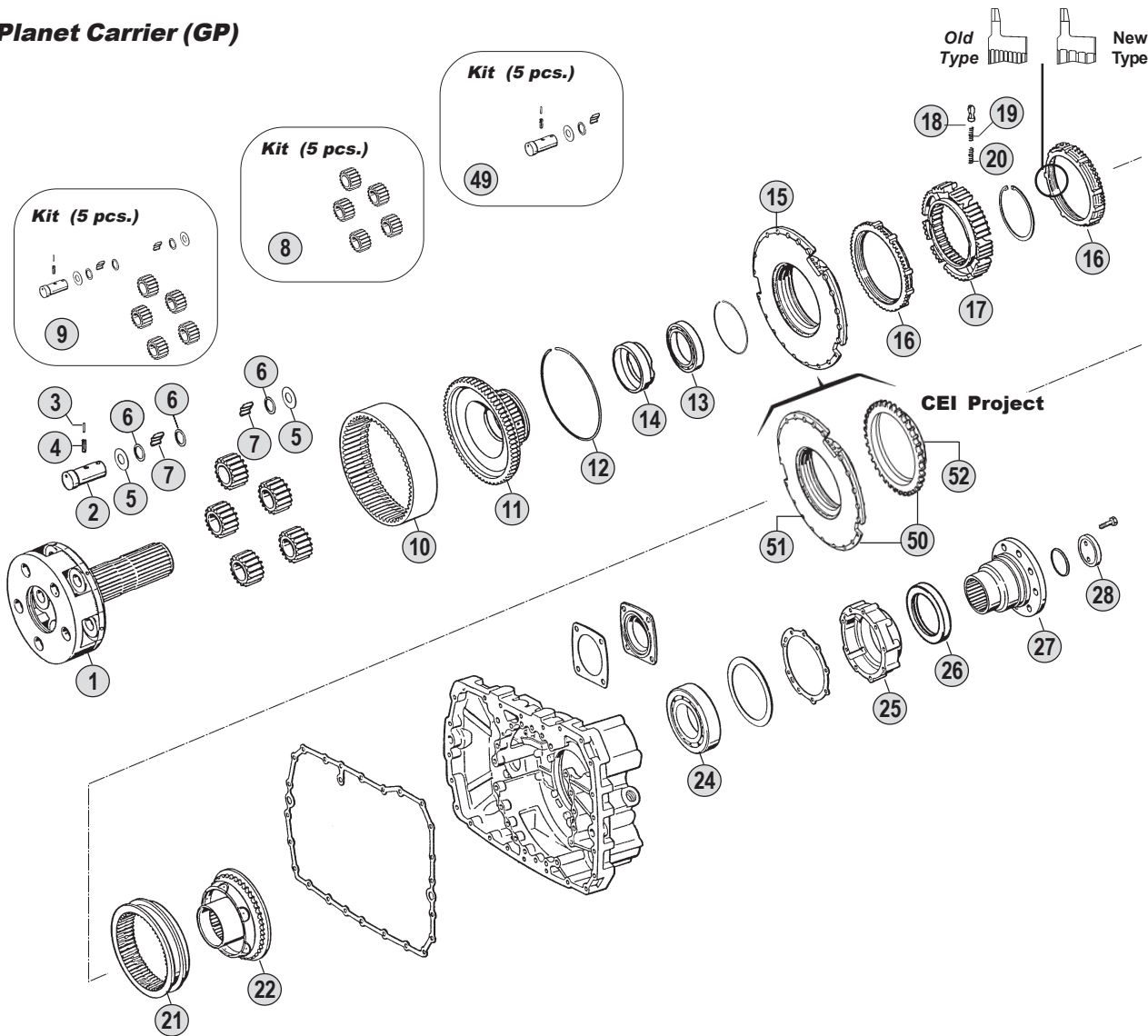




Suitable To : **ZF**

**16K130 - 16K160 - 16K190**

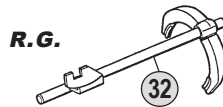
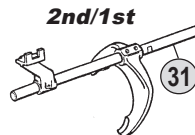
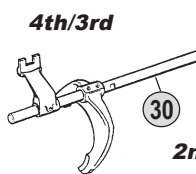
**Planet Carrier (GP)**



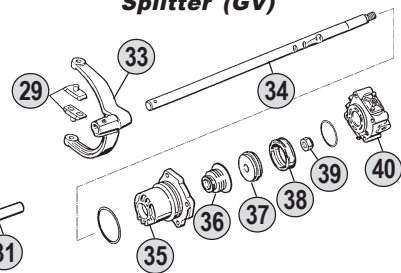
**Shifting Forks**

**Springs & Slide Kits**

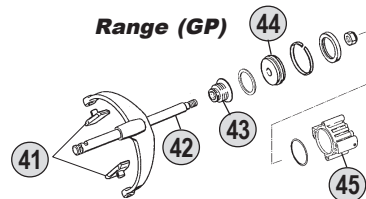
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16K130</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K160</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K190</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	MB no.					16K130 (1295)	16K160 (1297)	16K190 (1297)			
1	190.169	1295 232 044	000 260 3461	Planetary Carrier	1		AB	●					
1		1295 232 045		Planetary Carrier	1		C	●					
1	190.396	1297 232 039	000 260 3561	Planetary Carrier	1		AB		●	●			
1	190.395	1297 232 045	000 260 4061	Planetary Carrier	1		C		●	●			
2	<b>107.089</b>	1269 332 036	000 264 1618	Planet Shaft	5			●					
2	107.163	1297 332 109	000 263 0374	Planet Shaft	5				●	●			
3	160.191	0631 329 017	001 481 003 028	Lock Pin D.3x24	5			●	●	●			
4	160.192	0631 329 050	001 481 005 036	Lock Pin D.5x24	5			●	●	●			
5	169.408	0501 305 887	003 264 2252	Thrust Washer D.29x57,50x1,50	10			●					
5	169.753	0501 306 212	000 263 0562	Thrust Washer D.29x64x1,5	10				●	●			
6	<b>169.410</b>	0730 103 846	003 264 2052	Spacer Ring D.29x39x1,00	15			●	●	●			
7	<b>171.016</b>	0735 470 057	001 981 1187	Roller Set D.6x14,75 (180 pcs)	180			●					
7	171.045	0750 119 109	001 981 5487	Roller Set D.10x16,80 (120 pcs)	120				●	●			
8	<b>198.357</b>	1295 232 027	000 260 1497	Planetary Gear Set (5 pcs)	1		AB	●					
8	198.437	1295 232 038		Planetary Gear Set (5 pcs)	1		C	●					
8	198.803	1297 232 023	000 260 1597	Planetary Gear Set (5 pcs)	1		AB		●	●			
8	198.810	1297 232 024		Planetary Gear Set (5 pcs)	1		C		●	●			
9	198.562	1296 298 904	000 262 0306	Planetary Gear Set	1		AB	●					
9	<b>198.704</b>	1297 298 912	000 262 0406	Planetary Gear Set	1		AB		●	●			
9		1297 298 919	000 260 2297	Planetary Gear Set	1		C		●	●			
10	123.162	1295 332 053	000 263 6410	Crown Gear 83 T	1		AB	●					
10	123.208	1295 332 086	001 263 2110	Crown Gear 86 T	1		C	●					
10	123.217	1297 332 080	000 263 6310	Crown Gear 83 T	1		AB		●	●			
10	123.208	1295 332 086	001 263 2110	Crown Gear 86 T	1		C		●	●			
11	150.112	1295 332 021	000 263 0025	Flange Gear 83 T	1		AB	●					
11	150.142	1295 332 084		Flange Gear 86 T	1		C	●					
11	150.138	1297 332 017	000 263 0125	Flange Gear 83 T	1		AB		●	●			
11	150.137	1297 332 035	000 263 0425	Flange Gear 86 T	1		C		●	●			
12	111.129	0730 505 055	000 263 0973	Locking Wire	1		AB	●	●	●			
12	111.198	0730 505 056	000 263 1973	Locking Wire	1		C	●	●	●			
13	130.244	0750 116 166	000 981 3020	Bearing D.75x105x16	1			●					
13	130.310	0750 116 165	000 981 3120	Bearing D.80x110x16	1				●	●			
14		1297 332 002	000 263 1120	Ring	1				●	●			
15	<b>198.358</b>	1296 233 006	000 263 1720	Synchronizer Cone	1			●	●	●			
16	<b>119.085</b>	1296 333 022	000 263 0234	Synchronizer Ring	2	Old Type		●	●	●			
16	<b>119.172</b>	1296 333 045	000 263 0534	Synchronizer Ring	2	New Type		●	●	●			
17	<b>157.113</b>	1296 333 002	000 263 0735	Synchronizer Hub	1			●	●	●			
18	<b>160.116</b>	1240 304 278	336 264 0239	Pressure piece	9			●	●	●			
19	<b>156.036</b>	0732 040 386	336 264 0793	Inner Spring De.3x34	9			●	●	●			
20	<b>156.037</b>	0732 040 385	336 264 0693	Outer Spring De.6x34	9			●	●	●			
21	<b>154.098</b>	1296 333 023	000 263 0523	Sliding Sleeve	1			●	●	●			
22	<b>198.359</b>	1295 233 025	000 263 1920	Synchronizer Cone (36 Spl.)	1			●					
22	<b>198.374</b>	1313 233 001	000 263 2020	Synchronizer Cone (38 Spl.)	1				●	●			
24	130.245	0750 116 002	000 981 2920	Bearing D.90x160x30	1			●	●	●			
25	128.098	1315 301 220	000 261 1732	Cover	1			●					

Notes

Date

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Table

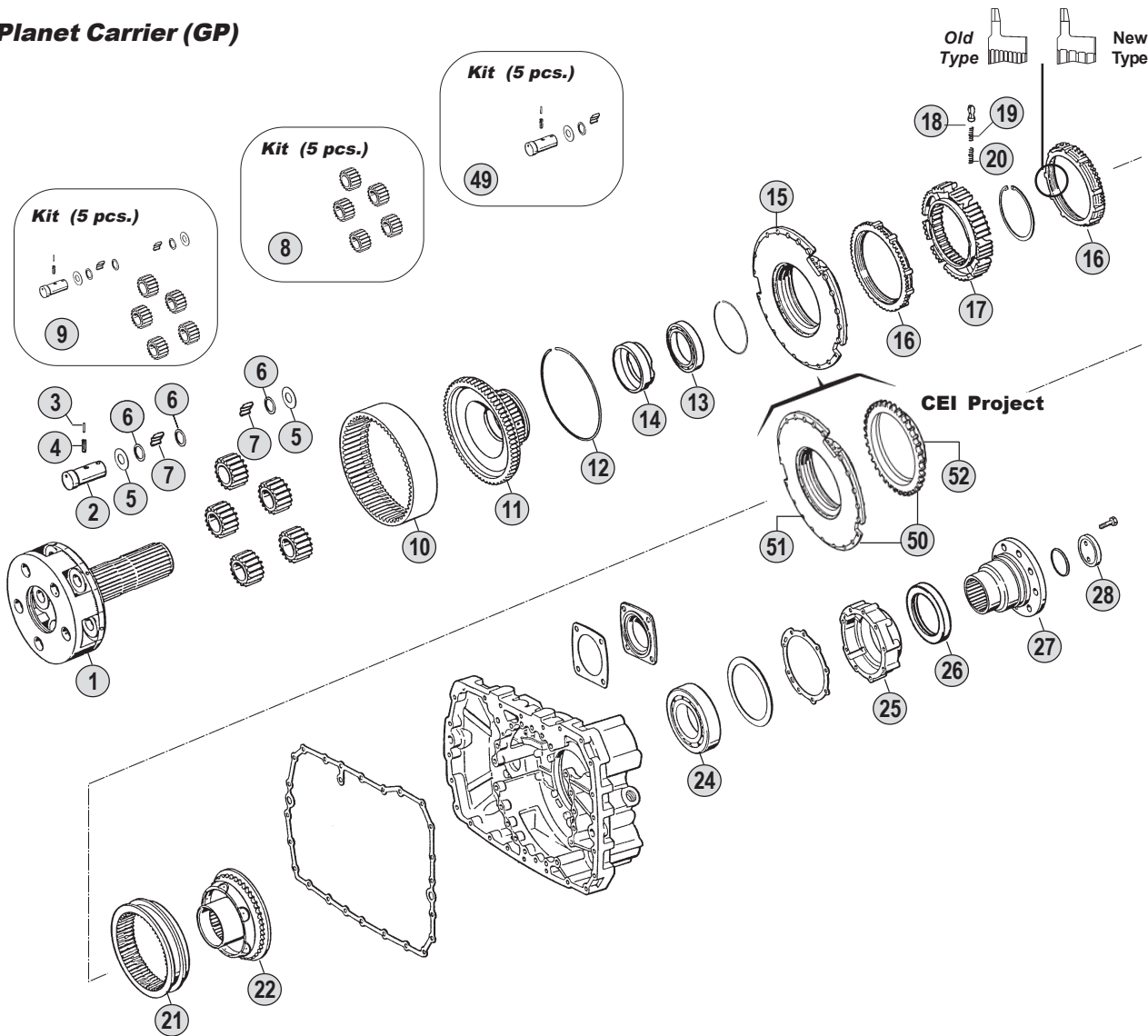
001 / B

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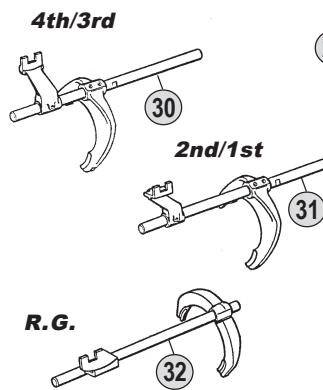
Suitable To : **ZF**

**16K130 - 16K160 - 16K190**

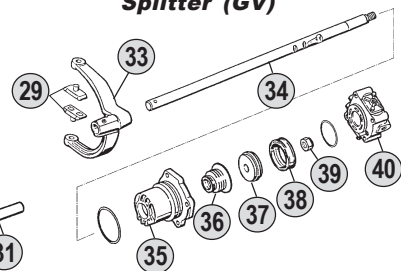
**Planet Carrier (GP)**



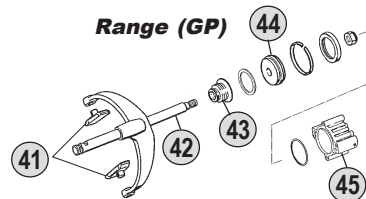
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Springs & Slide Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

**Ratios**

<b>16K130</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K160</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K190</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	MB no.					16K130 (1295)	16K160 (1297)	16K190 (1297)			
26		0750 111 341	021 997 6447	Oil Seal 105x130x12	1			●	●	●			
27		1295 338 061	000 264 3645	Output Flange	1	D.180-4 H.		●					
27	197.051	1295 338 014	000 264 2745	Output Flange	1	D.180-10 H.		●					
27		1297 338 041	000 264 4245	Output Flange	1	D.180-4 H.			●				
27		1297 338 010	000 264 2845	Output Flange	1	D.180-10 H.			●	●			
27		1297 338 038	000 264 4145	Output Flange	1	D.180-10 H.				●			
28	188.077	1295 332 051	000 264 1976	Stop Washer	1			●	●	●			
29	141.068	1295 306 132	000 268 0849	Bronze Slide	2			●	●	●			
30		1295 206 184		Fork	1			●					
30		1295 206 189		Fork	1			●					
30		1297 206 077	001 265 2405	Fork	1				●	●			
30		1297 206 083	001 265 3005	Fork	1				●	●			
31		1295 206 182		Fork	1			●					
31		1295 206 188		Fork	1			●					
31		1297 206 076	001 265 2305	Fork	1				●	●			
31		1297 206 082	001 265 2905	Fork	1				●	●			
32		1295 206 253		Fork	1			●					
32		1295 206 252		Fork	1			●					
32		1297 206 172	001 265 7905	Fork	1				●	●			
32		1297 206 173		Fork	1				●	●			
32		1297 206 184	001 265 8805	Fork	1				●				
33		1313 312 002	000 265 3701	Fork	1			●	●	●			
34		1295 312 017		Rod	1			●					
34		1297 312 007	000 265 9105	Rod	1				●	●			
35	132.046	1296 312 042	000 267 0519	Cylinder	1			●	●	●			
36	139.331	0750 112 034	000 267 0697	Cap Collar D.25x38x14,2	1			●	●	●			
37	189.421	1296 312 053	000 267 0918	Piston	1			●	●	●			
38		0750 112 089	000 267 0997	Ring 53x63x16,2	1			●	●	●			
39		0737 006 095	000 990 9658	Nut	1			●	●	●			
40		0750 132 032		Cylinder	1			●	●	●			
40	280.350	1295 212 008	001 260 5957	Cylinder	1			●	●	●			
40		0750 132 033	001 260 3057	Cylinder	1				●				
41	141.085	1296 334 004	000 265 0649	Bronze Slide	2			●	●	●			
42		1313 234 011	002 265 1005	Fork	1			●					
42	149.171	1312 234 002	002 265 0205	Fork Lever	1				●	●			
43	139.331	0750 112 034	000 267 0697	Cap Collar D.25x38x14,2	1			●	●	●			
44	189.422	1296 334 039	000 267 0818	Piston	1			●	●	●			
45	132.047	1295 334 075	000 267 2119	Cylinder	1			●	●	●			
46	198.339	1268 298 938		Spring Slide Set	1			●	●	●			
47	198.564	CEI 198564		Spring Slide Set	1			●	●	●			
48	198.842	1295 298 933		Spring Slide Set	1			●	●	●			
49	198.447	CEI 198447		Gear Set	1			●					
50	198.856	CEI 198856		Synchronizer cone kit	1	Can repl. fig. 15		●	●	●			
51	135.128	CEI 135128		Saddle Plate	1	Use with fig.52		●	●	●			
52	109.174	1296 333 050		Synchronizer Cone	1	Use with fig.51		●	●	●			

Notes

Date

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Table

001 / B

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suitable to :

**Z.F.****EcoSplit I****From 16S112 to 16S190****ECO I**  
From 16S112  
To 16S190**Application**

	<b>16S112</b>	<b>16S130</b>	<b>16S160</b>	<b>16S190</b>
	(1296)	(1295)	(1297)	(1297)
<b>MERCEDES</b>				
<b>M.A.N.</b>				
<b>IVECO</b>				
<b>R.V.I.</b>				
<b>DAF</b>				
<b>VOLVO</b>				

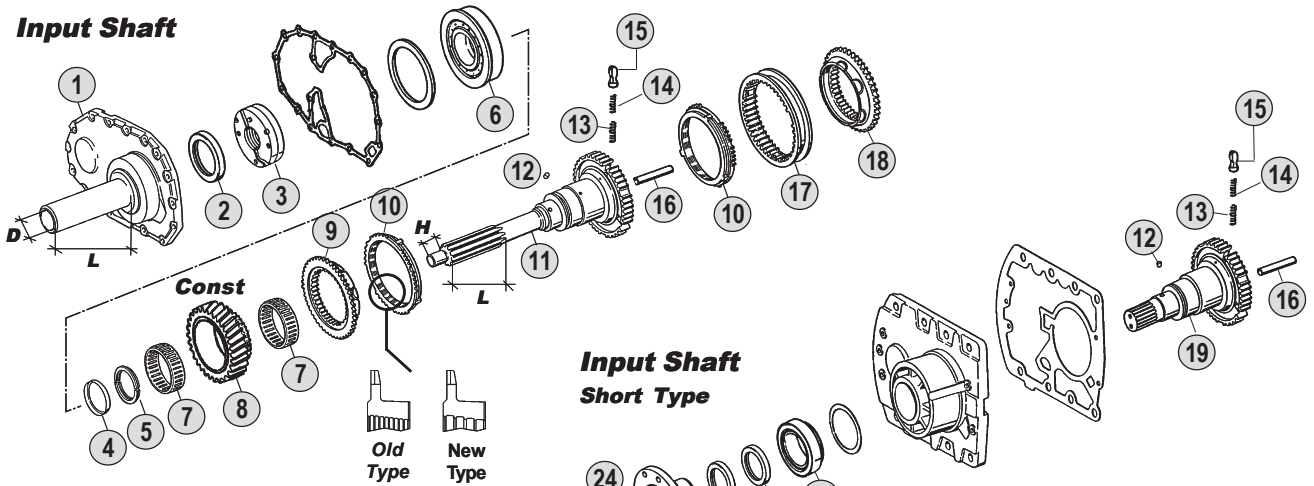
**Ratios**

	<b>R.10,14-0,72</b>	<b>R.11,46-0,85</b>	<b>R.13,68-1,00</b>	<b>R.14,29-0,82</b>	<b>R.17,06-1,00</b>
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>16S112</b>					
<b>16S130</b>					
<b>16S160</b>					
<b>16S190</b>					

Suitable To: **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

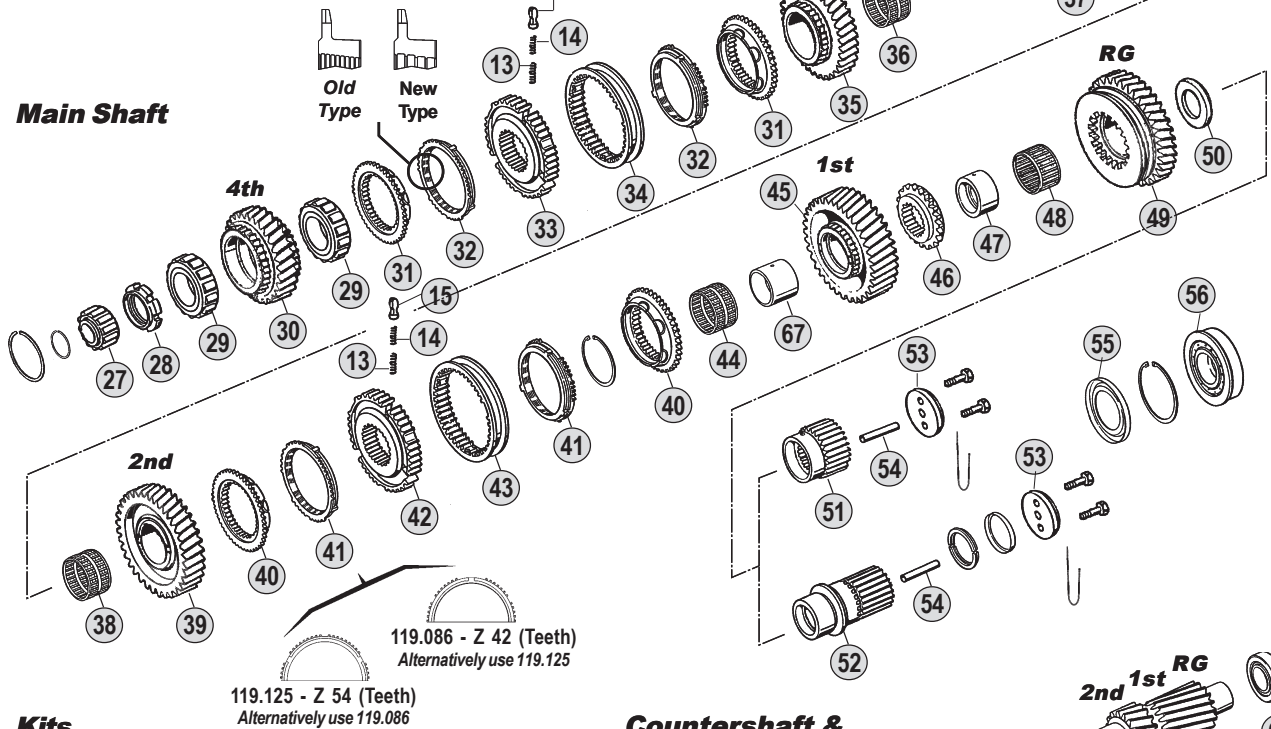
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

**Main Shaft**



**Kits**

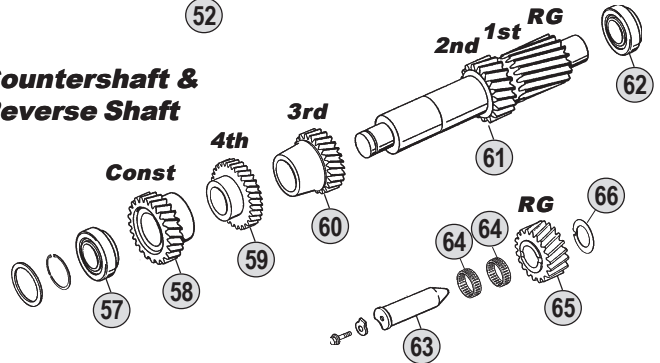


**Gasket Kit 72**



**Oil Seal Kit 71**

**Countershaft & Reverse Shaft**



**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D:--	E:--
<b>16S130</b>	A:10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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16S112 (1296)  
16S130 (1295)  
16S160 (1297)  
16S190 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	MB no.					16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)	
1		1297 302 012	000 262 3329	Front Cover	1	L=170 D=54	●	●				
1		1297 302 042	000 262 3429	Front Cover	1	L=170 D=60	●	●	●	●		
2		0750 111 002	008 997 3847	Oil Seal 48x75x8	1		●	●	●	●		
2		0634 310 733	006 997 0146	Oil Seal 90x110x13	1	(1)	●	●	●	●		
2		0734 310 386	023 997 9447	Oil Seal 55x75x8	1	(5)	●	●	●	●		
3	<b>280.348</b>	1295 202 041	000 260 1290	Oil Pump	1		●	●	●	●		
4	169.754	0730 061 816	000 262 0673	Securing Ring	1		●	●	●	●		
4	169.755	0730 062 579	000 262 1073	Securing Ring	1	S.4,20 mm	●	●	●	●		
5		0730 103 244	000 262 1530	Split Ring T.4,30 mm	1	S.4,30 mm (2)	●	●	●	●		
5		0730 103 935	000 262 4230	Split Ring T.3,80 mm	1	S.3,80 mm (2)	●	●	●	●		
5		0730 105 156	000 262 4430	Split Ring T.4,00 mm	1	S.4,00 mm (3)	●	●	●	●		
5		0730 105 154	000 262 4630	Split Ring T.3,80 mm	1	S.3,80 mm (3)	●	●	●	●		
6	130.305	0750 118 131	007 981 2801	Bearing D.80x150x27,50	1		●	●	●	●		
6	130.517	0750 118 007	004 981 7401	Bearing	1	(4)	●	●	●			
7	137.139	0735 320 799	012 981 0610	Needle Cage D.88x96x23	2		●					
7	137.082	0735 320 786	005 981 9801	Needle Cage D.88x96x24,50	2			●				
7	137.153	0735 320 896	013 981 1610	Needle Cage D.88x96x29	2				●	●		
7	137.163	0735 358 155	005 981 3801	Needle Cage	2	(4)	●	●	●			
8	145.535	1296 302 002		Constant Gear 30 T	1		●					
8	<b>145.447</b>	1296 302 003	000 262 3910	Constant Gear 28 T	1		●					
8	<b>145.448</b>	1296 302 023	000 262 3010	Constant Gear 28 T	1	(4)	●					
8	<b>145.276</b>	1295 302 071	000 262 4010	Constant Gear 28 T	1			●				
8	<b>145.408</b>	1295 302 074	000 262 3110	Constant Gear 28 T	1	(4)		●				
8	145.489	1295 302 070	000 262 5210	Constant Gear 30 T	1			●				
8	145.541	1295 302 122		Constant Gear 29 T	1			●				
8	<b>145.466</b>	1297 302 177	000 262 4610	Constant Gear 30 T	1				●	●		
8	<b>145.406</b>	1297 302 176	000 262 4510	Constant Gear 28 T	1				●	●		
8	<b>145.449</b>	1297 302 074	000 262 3210	Constant Gear 28 T	1	(4)			●			
8	<b>145.405</b>	1297 302 250	000 262 5810	Constant Gear 29 T	1				●	●		
8	<b>145.407</b>	1297 302 241		Constant Gear 26 T	1				●	●		
9	<b>109.072</b>	1295 304 278	000 262 1940	Synchronizer Cone	1		●	●	●	●		
9	<b>109.083</b>	1295 304 165	000 262 1440	Synchronizer Cone	1	(4)	●	●	●			
10	<b>119.084</b>	1295 304 004	000 262 2034	Synchronizer Ring	2	Old Type	●	●	●	●		
10	<b>119.175</b>	1304 304 686	000 262 9934	Synchronizer Ring	2	New Type	●	●	●	●		
11	<b>102.222</b>	1296 202 001	001 262 2002	Input Shaft	1	L=110 H=33	●					
11		1296 221 001	001 262 0902	Input Shaft	1	NMV130 (Clutch PTO)	●					
11		1296 221 002	001 262 3302	Input Shaft	1	NMV130 (Clutch PTO)	●					
11	102.248	1296 202 004	000 262 9402	Input Shaft	1	L=115 H=32(4)	●					
11	102.230	1295 202 004	001 262 1802	Input Shaft	1	L=115 H=32		●				
11	<b>102.221</b>	1295 202 028	001 262 1902	Input Shaft	1	L=125 H=30		●				
11		1295 221 001	001 262 1302	Input Shaft	1	NMV130 (Clutch PTO)		●				
11		1295 221 003	001 262 3802	Input Shaft	1	NMV130 (Clutch PTO)		●				
11		1295 202 019	001 262 0202	Input Shaft	1	(4)		●				
11	<b>102.223</b>	1297 202 053	001 262 2802	Input Shaft	1	L=125 H=30			●	●		
11		1297 202 061	001 262 3202	Input Shaft	1				●	●		

## Notes

- (1) Only for input Shaft 1295 221 001/003 - 1296 221 001/002 - 1297 221 005/006/009
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (4) Special MB Version. Use items marked (4) together
- (5) Only for input Shaft 1295 202 028 - 1297 202 030/053/061
- (6) Old Type. Old Syncro Ring Ø 175.5 mm (Z 57 or 30) - Standard Syncro Ring Ø 192 mm (Z 63 or 54)  
Use items marked (6) together

## Date

03 / 2006

## Table

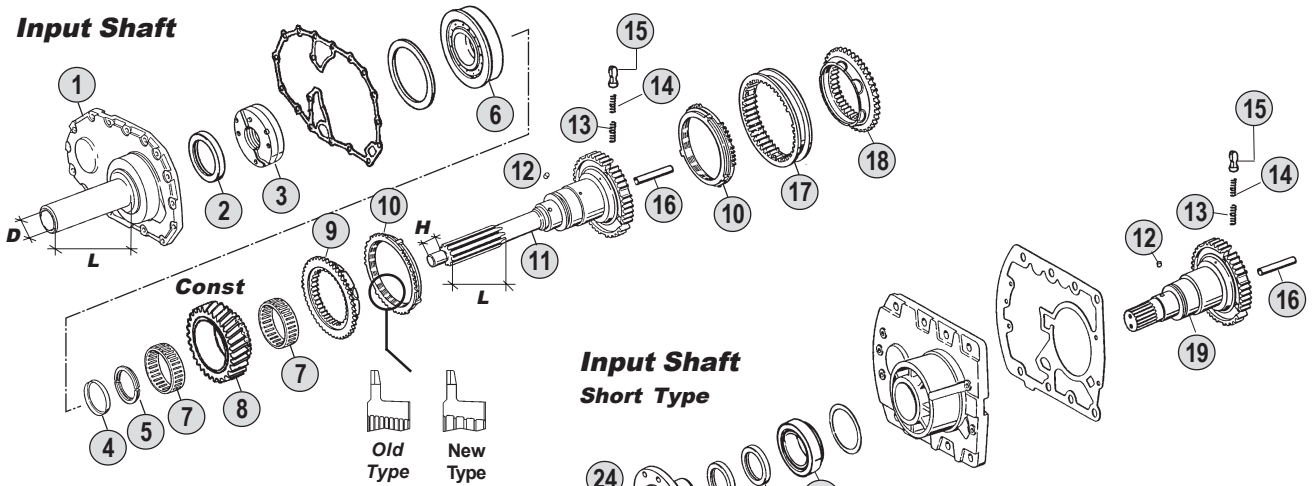
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Suitable To: **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

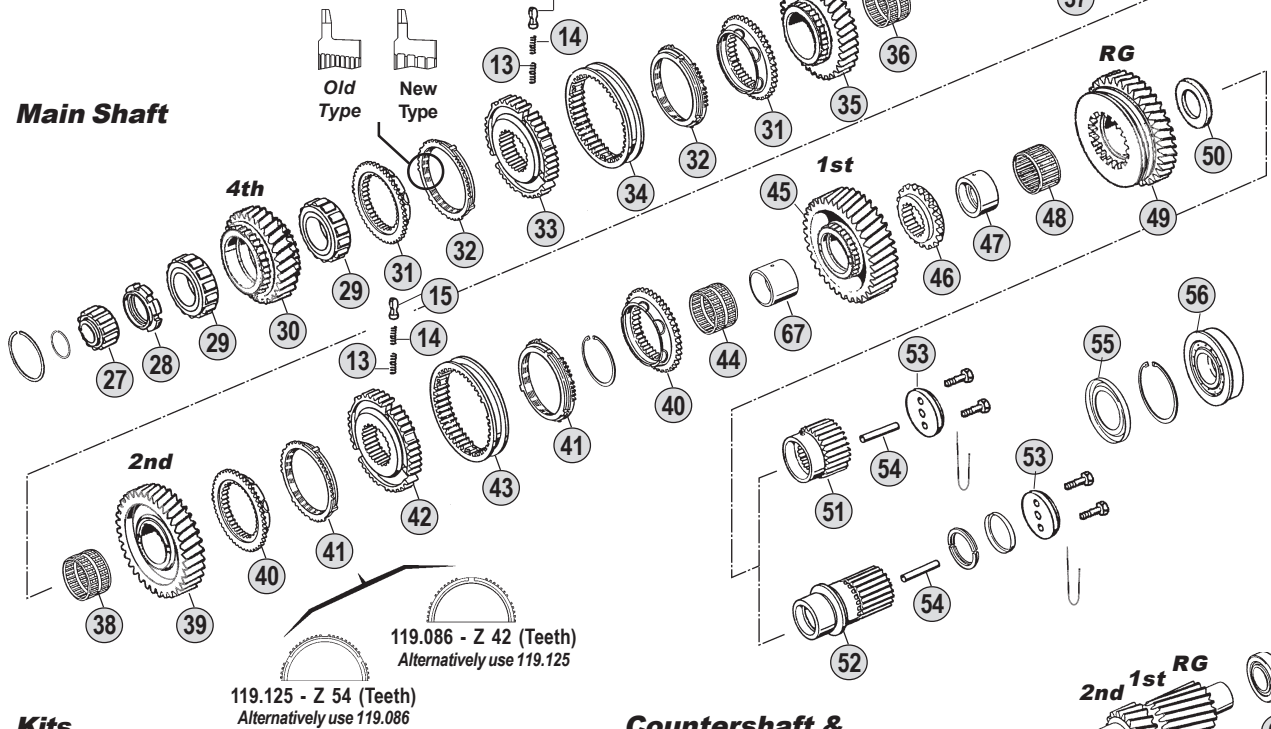
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

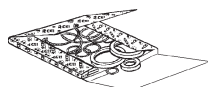
**Main Shaft**



**Kits**

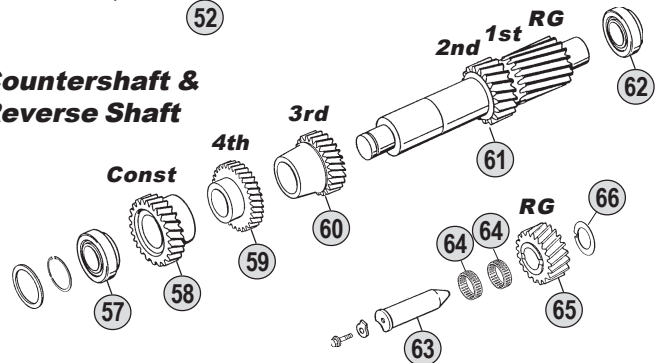


**Gasket Kit 72**



**Oil Seal Kit 71**

**Countershaft & Reverse Shaft**



**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D:--	E:--
<b>16S130</b>	A:10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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16S112 (1296)  
16S130 (1295)  
16S160 (1297)  
16S190 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	MB no.					16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)	
11	102.233	1297 202 030	001 262 0302	Input Shaft	1	L=140H=30(4)			●			
11		1297 221 005		Input Shaft	1	NMV130 (Clutch PTO)			●			
11		1297 221 006		Input Shaft	1	NMV130 (Clutch PTO)			●			
11		1297 221 009		Input Shaft	1	NMV130 (Clutch PTO)			●			
12		0635 470 012	005 402 007 200	Pin	1		●	●	●	●		
13	156.037	0732 040 385	336 264 0693	Outer Spring De.6x34	3		●	●	●	●		
14	156.036	0732 040 386	336 264 0793	Inner Spring De.3x34	3		●	●	●	●		
15	160.116	1240 304 278	336 264 0239	Pressure piece	3		●	●	●	●		
16	188.208	0730 062 323	000 261 0766	Oil Tube	1		●	●	●	●		
17	154.097	1295 304 002	000 262 3623	Sliding Sleeve	1		●	●	●	●		
18	109.072	1295 304 278	000 262 1940	Synchronizer Cone	1		●	●	●	●		
19	102.237	1297 202 044	001 262 3002	Input Shaft	1				●	●		
20		0750 117 651	009 981 2901	Bearing 50x90x24,7	1				●	●		
21		0634 310 648	009 997 5846	Oil Seal 70x90x10	1				●	●		
22		0734 300 140	013 997 3947	Oil Seal 70x90x10	1				●	●		
23	155.135	1286 304 026		Drive Flange	1	D.150-8H.			●	●		
23		1297 302 171	000 264 5045	Drive Flange	1	D.150-8H.				●		
24	188.078	1269 302 065	000 262 2462	Stop Washer	1				●	●		
26		1269 302 164	000 264 0273	Stop Washer	1				●	●		
27	137.081	0750 118 010	001 981 9912	Roller Cage D.30x60x25,50	1		●	●				
27	137.113	0750 118 038	004 981 8001	Roller Cage D.35x68x27,50	1				●	●		
28	187.412	0737 502 092	000 990 2360	Grooved Nut M60x1,5	1		●	●	●	●		
29	137.155	0750 118 012	004 981 7601	Roller Cage D.63x97,5x31,7	2		●					
29	137.083	0750 118 005	004 981 7801	Roller Cage D.63x97,5x34,80	2			●				
29	137.157	0750 118 220	008 981 6901	Roller Cage D.63x97,5x37,50	2				●	●		
30	146.448	1296 304 091		Gear 4th Speed 28 T	1				●			
30	146.362	1296 304 090	000 262 2414	Gear 4th Speed 30 T	1				●			
30	146.212	1295 304 135	000 262 2514	Gear 4th Speed 30 T	1					●		
30	146.356	1295 304 136	000 262 4814	Gear 4th Speed 28 T	1				●			
30	146.454	1295 304 236		Gear 4th Speed 26 T	1				●			
30	146.384	1297 304 267	000 262 4214	Gear 4th Speed 28 T	1					●	●	
30	146.318	1297 304 260	000 262 4414	Gear 4th Speed 30 T	1					●	●	
30	146.315	1297 304 318	000 262 6014	Gear 4th Speed 26 T	1					●	●	
30	146.294	1297 304 413		Gear 4th Speed 29 T	1						●	●
31	109.072	1295 304 278	000 262 1940	Synchronizer Cone	2		●	●	●	●		
32	119.084	1295 304 004	000 262 2034	Synchronizer Ring	2	Old Type	●	●	●	●		
32	119.175	1304 304 686	000 262 9934	Synchronizer Ring	2	New Type	●	●	●	●		
33	157.110	1297 304 031	000 262 3935	Synchronizer Hub	1		●	●	●	●		
34	154.097	1295 304 002	000 262 3623	Sliding Sleeve	1		●	●	●	●		
35	145.536	1296 304 088		Gear 3rd Speed 32 T	1		●					
35	145.494	1296 304 087	000 262 3113	Gear 3rd Speed 34 T	1		●					
35		1295 304 269		Gear 3rd Speed 25 T	1				●			
35	145.495	1295 304 127	000 262 7113	Gear 3rd Speed 32 T	1				●			
35	145.277	1295 304 128	000 262 3213	Gear 3rd Speed 34 T	1				●			
35	145.470	1297 304 266	000 262 6213	Gear 3rd Speed 32 T	1					●	●	

## Notes

- (1) Only for input Shaft 1295 221 001/003 - 1296 221 001/002 - 1297 221 005/006/009
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (4) Special MB Version. Use items marked (4) together
- (5) Only for input Shaft 1295 202 028 - 1297 202 030/053/061
- (6) Old Type. Old Syncro Ring Ø 175.5 mm (Z 57 or 30) - Standard Syncro Ring Ø 192 mm (Z 63 or 54)  
Use items marked (6) together

## Date

03 / 2006

## Table

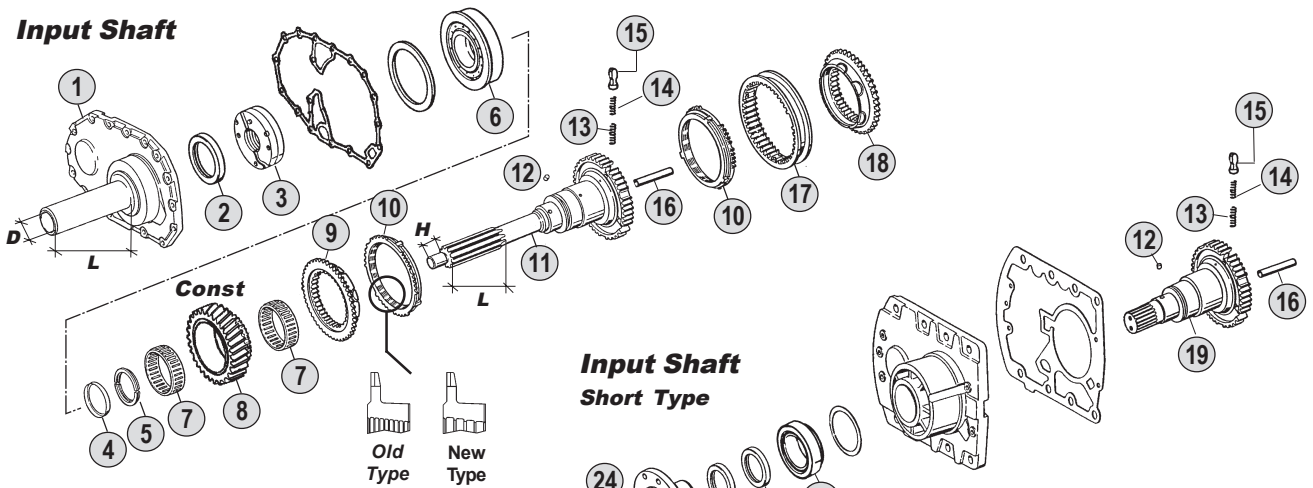
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Suitable To: **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

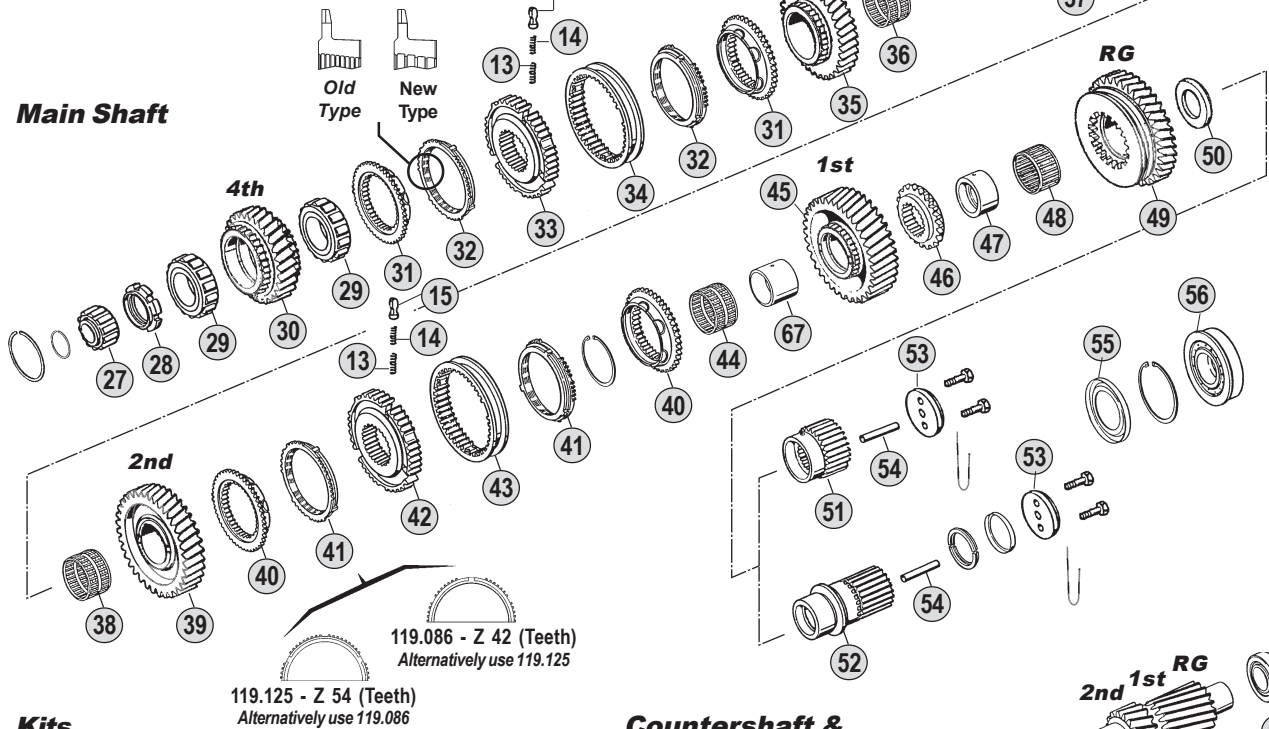
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

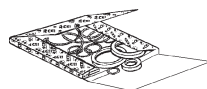
**Main Shaft**



**Kits**

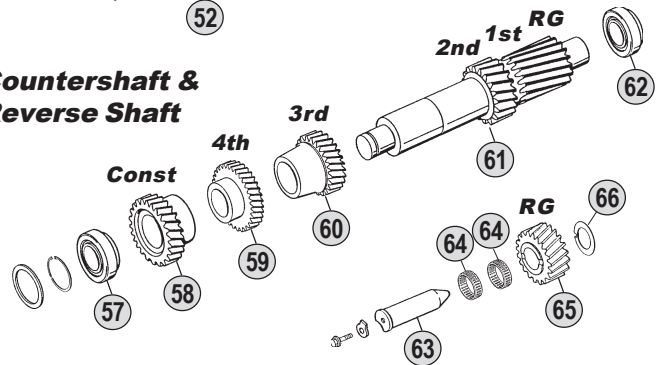


**Gasket Kit 72**



**Oil Seal Kit 71**

**Countershaft & Reverse Shaft**



**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D:--	E:--
<b>16S130</b>	A:10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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16S112 (1296)  
16S130 (1295)  
16S160 (1297)  
16S190 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	MB no.					16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)		
35	145.450	1297 304 261	000 262 6913	Gear 3rd Speed 34 T	1		C			●	●		
35	145.377	1297 304 414		Gear 3rd Speed 34 T	1		E			●	●		
36	137.158	0735 320 460	010 981 3010	Needle Cage D.82x90x46	1			●					
36	137.084	0735 320 418	010 981 3510	Needle Cage D.82x90x49	1				●				
36	137.112	0735 320 451	010 981 4010	Needle Cage D.82x90x60	1					●	●		
37	103.131	1296 304 119	000 262 2505	Main Shaft	1			●					
37		1295 304 273		Main Shaft	1		A			●			
37	103.075	1295 304 245	000 262 2605	Main Shaft	1		BC			●			
37	103.140	1295 304 250		Main Shaft	1		D			●			
37	103.132	1297 304 181	000 262 2705	Main Shaft	1		BC				●	●	
37	103.098	1297 304 193	000 262 4405	Main Shaft	1		DE				●	●	
38		0735 320 549	010 981 3310	Needle Cage D.82x90x42	1			●					
38	137.112	0735 320 451	010 981 4010	Needle Cage D.82x90x60	1		A			●			
38	137.084	0735 320 418	010 981 3510	Needle Cage D.82x90x49	1		BCD			●			
38	137.109	0735 320 452	010 981 3710	Needle Cage D.82x90x55	1						●	●	
39	145.537	1296 304 071		Gear 2nd Speed 37 T	1		B	●					
39	145.499	1296 304 070	000 262 2512	Gear 2nd Speed 38 T	1		C	●					
39		1295 304 271		Gear 2nd Speed 34 T	1		A			●			
39	145.501	1295 304 120	000 262 6312	Gear 2nd Speed 37 T	1		BD			●			
39	145.278	1295 304 121	000 262 2612	Gear 2nd Speed 38 T	1		C			●			
39	145.500	1297 304 269	000 262 5612	Gear 2nd Speed 37 T	1		BD				●	●	
39	145.375	1297 304 442	000 262 6512	Gear 2nd Speed 38 T	1		CE				●	●	
40	109.074	1297 304 196	000 262 2140	Synchronizer Cone	2			●	●	●	●		
40	109.072	1295 304 278	000 262 1940	Synchronizer Cone	2	(6)		●	●				
41	119.125	1296 304 135	000 262 3734	Synchronizer Ring	2	Z 54 - Alt. use 119.086		●	●	●	●		
41	119.086	1246 304 278	000 262 2434	Synchronizer ring 42 T	2	Z 42 - Alt. use 119.125		●	●	●	●		
41	119.084	1295 304 004	000 262 2034	Synchronizer Ring	2	(6)		●	●				
42	157.111	1297 304 195	000 262 4435	Synchronizer Hub	1			●	●	●	●		
42	157.110	1297 304 031	000 262 3935	Synchronizer Hub	1	(6)		●	●				
43	154.051	1257 304 020	336 262 0023	Sliding Sleeve 1st-2nd Speed	1			●	●	●	●		
43	154.097	1295 304 002	000 262 3623	Sliding Sleeve	1	(6)		●	●				
44	137.159	0735 320 548	010 981 3110	Needle Cage D.70x78x46	1			●					
44	137.159	0735 320 548	010 981 3110	Needle Cage D.70x78x46	1		A			●			
44	137.085	0735 320 496	010 981 3610	Needle Cage D.70x78x55	1		BCD			●			
44	137.110	0735 320 487	010 981 3810	Needle Cage D.82x90x68	1						●	●	
45	145.538	1296 304 100		Gear 1st Speed 44 T	1		B	●					
45	145.505	1296 304 099	000 262 4811	Gear 1st Speed 47 T	1		C	●					
45		1295 304 270		Gear 1st Speed 41 T	1		A			●			
45	145.506	1295 304 203	000 262 9011	Gear 1st Speed 44 T	1		BD			●			
45	145.279	1295 304 202	000 262 5011	Gear 1st Speed 47 T	1		C			●			
45	145.507	1297 304 270	000 262 8511	Gear 1st Speed 44 T	1		BD				●	●	
45	145.376	1297 304 441	000 262 9211	Gear 1st Speed 47 T	1		CE				●	●	
46	109.075	1295 304 206	000 262 1540	Engaging Ring	1			●					
46	109.184	1295 304 024		Engaging Ring	1		A			●			
46	109.075	1295 304 206	000 262 1540	Engaging Ring	1		BCD			●			

## Notes

- (1) Only for input Shaft 1295 221 001/003 - 1296 221 001/002 - 1297 221 005/006/009
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (4) Special MB Version. Use items marked (4) together
- (5) Only for input Shaft 1295 202 028 - 1297 202 030/053/061
- (6) Old Type. Old Syncro Ring Ø 175.5 mm (Z 57 or 30) - Standard Syncro Ring Ø 192 mm (Z 63 or 54)  
Use items marked (6) together

## Date

03 / 2006

## Table

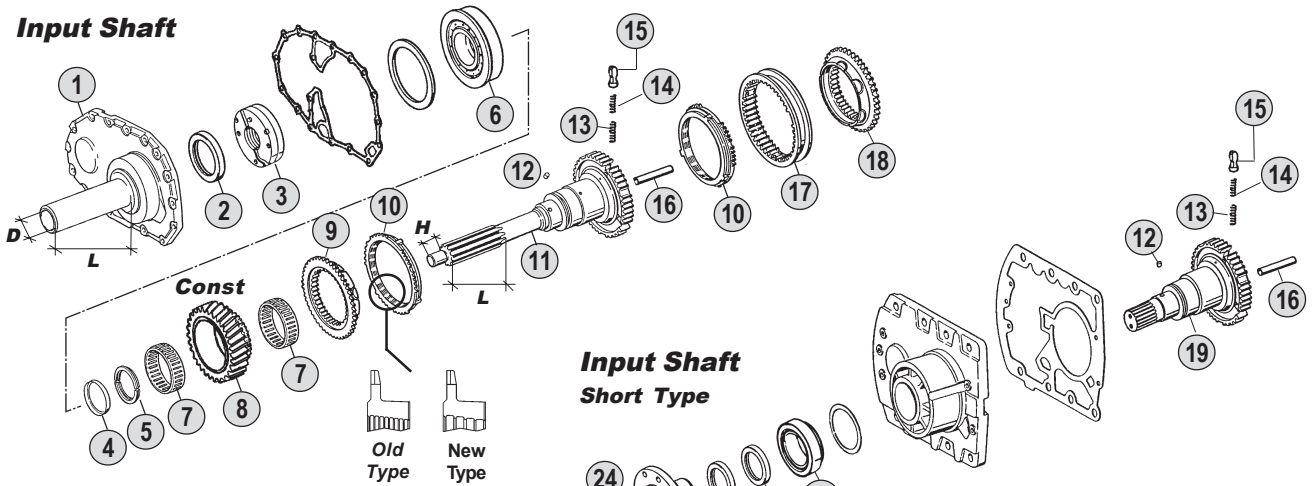
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Suitable To: **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

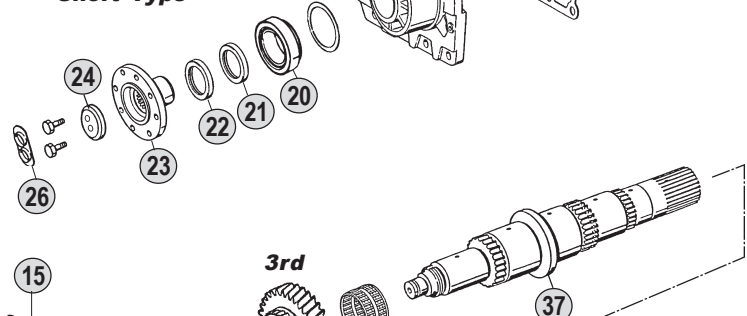
**Input Shaft**



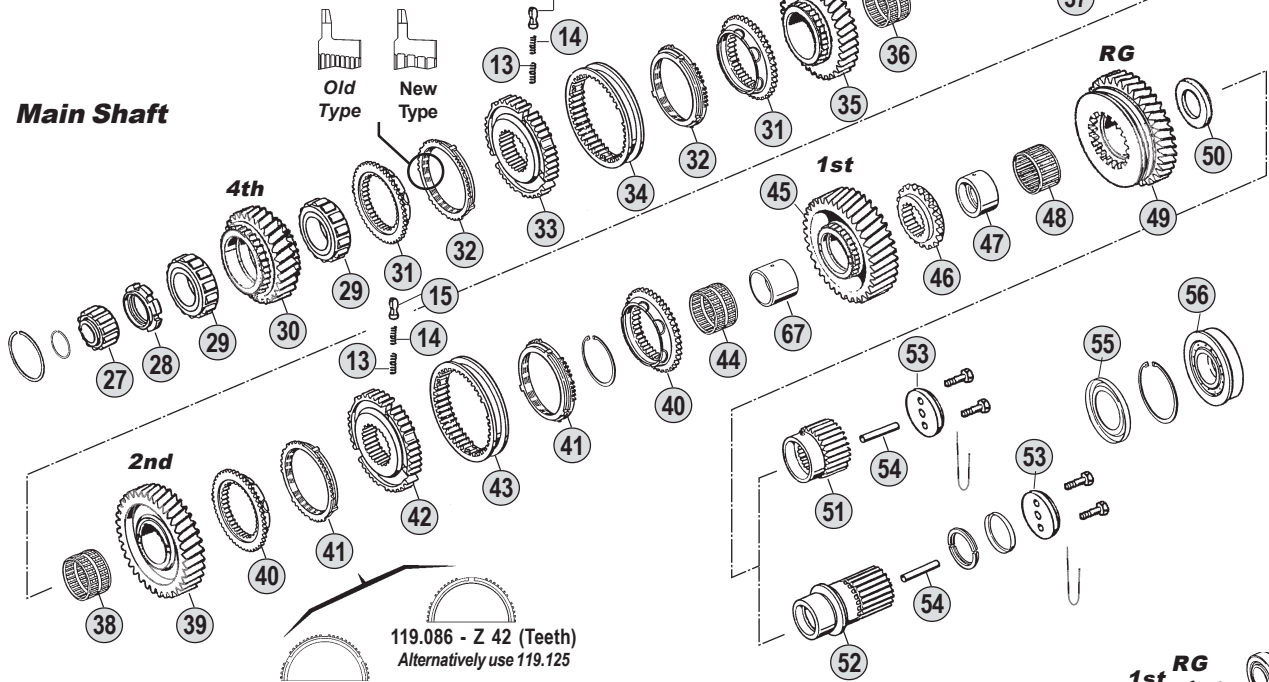
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

**Input Shaft Short Type**



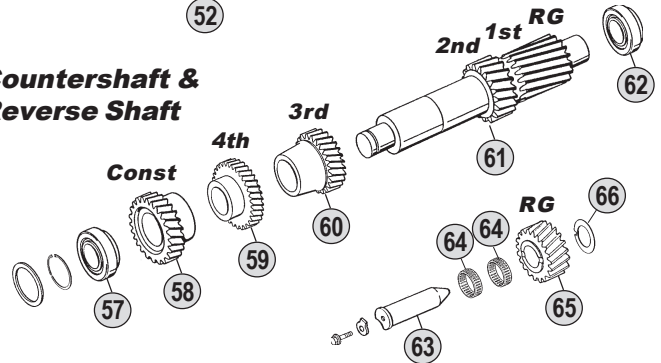
**Main Shaft**



**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D:--	E:--
<b>16S130</b>	A:10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	MB no.					16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)
46	109.178	1297 304 154	000 262 1640	Engaging Ring	1			•	•		
47	117.203	1295 304 012	000 262 2050	Bush D.60x75x38	1			•			
47	117.203	1295 304 012	000 262 2050	Bush D.60x75x38	1		ABC		•		
47	117.318	1297 304 034	000 262 2350	Bush	1		BC			•	•
48	137.086	0750 115 059	010 981 3210	Needle Cage D.75x83x40	1			•	•		
48	137.111	0735 320 486	010 981 3910	Needle Cage D.78x86x44	1					•	•
49	147.151	1296 304 098		Reverse Gear 39 T	1		B	•			
49	147.136	1296 304 097	000 262 4911	Reverse Gear 38 T	1		C	•			
49		1295 304 272		Reverse Gear 39 T	1		A		•		
49	147.138	1295 304 201	000 262 9111	Reverse Gear 39 T	1		BD		•		
49	147.093	1295 304 200	000 262 5111	Reverse Gear 38 T	1		C		•		
49	147.109	1297 304 149	000 262 8611	Reverse Gear 39 T	1		BD			•	•
49	147.140	1297 304 148	000 262 5311	Reverse Gear 38 T	1		CE			•	•
50	169.756	1296 304 117	000 262 3562	Thrust Washer	1			•			
50	169.409	1295 304 240	000 262 3662	Thrust Washer	1		ABC		•		
50	169.757	1297 304 381	000 262 4762	Thrust Washer	1		BC			•	•
51	157.211	1295 304 247	000 262 0109	Sun Gear 27 T	1			•			
51	157.112	1295 304 248	000 262 0209	Sun Gear 27 T	1		ABC		•		
51	157.177	1297 304 187	000 262 0309	Sun Gear 27 T	1		BC			•	•
52	157.207	1295 304 251		Sun Gear 24 T	1		D		•		
52	157.198	1297 304 439	000 262 0909	Sun Gear 24 T	1		DE			•	•
53	188.076	1272 304 021	000 262 2762	Stop Washer	1			•	•	•	•
54		0730 061 842	000 262 1253	Oil Tube	1			•	•	•	•
55		1295 304 129	000 261 0165	Oil Collector	1			•			
55		1295 304 129	000 261 0165	Oil Collector	1		ABC		•		
55		1297 301 004	000 261 0265	Oil Collector	1		D		•		
55		1297 301 004	000 261 0265	Oil Collector	1					•	•
56	130.240	0750 118 153	002 980 1002	Bearing D.60x130x31	1			•			
56	130.240	0750 118 153	002 980 1002	Bearing D.60x130x31	1		ABC		•		
56		0750 118 137		Bearing 80x140x26	1		D		•		
56		0750 118 006	001 980 8302	Bearing 65x140x33	1		BC			•	•
56		0750 118 180	002 980 0602	Bearing 80x140x33	1		DE			•	•
57	130.242	0750 117 010	001 980 8102	Bearing D.50,80x100x35	1			•	•	•	•
58	146.449	1296 303 013		Constant Gear 31 T	1		B	•			
58	146.364	1296 303 014	000 263 3210	Constant Gear 34 T	1		C	•			
58	146.210	1295 303 101	000 263 7110	Constant Gear 34 T	1		AC		•		
58	146.354	1295 303 036	000 263 8410	Constant Gear 31 T	1		B		•		
58	146.457	1295 303 060		Constant Gear 32 T	1		D		•		
58	146.383	1297 303 074	000 263 6910	Constant Gear 31 T	1		B			•	•
58	146.322	1297 303 066	000 263 6610	Constant Gear 34 T	1		C			•	•
58	146.319	1297 303 098	001 263 0510	Constant Gear 32 T	1		D			•	•
58	146.321	1297 303 086		Constant Gear 35 T	1		E			•	•
59	146.450	1296 303 003		Gear 4th Speed 34 T	1		B	•			
59	146.363	1296 303 002	000 263 3310	Gear 4th Speed 31 T	1		C	•			
59	146.209	1295 303 027	000 263 3610	Gear 4th Speed 31 T	1		AC		•		

## Notes

- (1) Only for input Shaft 1295 221 001/003 - 1296 221 001/002 - 1297 221 005/006/009
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (4) Special MB Version. Use items marked (4) together
- (5) Only for input Shaft 1295 202 028 - 1297 202 030/053/061
- (6) Old Type. Old Syncro Ring Ø 175.5 mm (Z 57 or 30) - Standard Syncro Ring Ø 192 mm (Z 63 or 54)  
Use items marked (6) together

## Date

03 / 2006

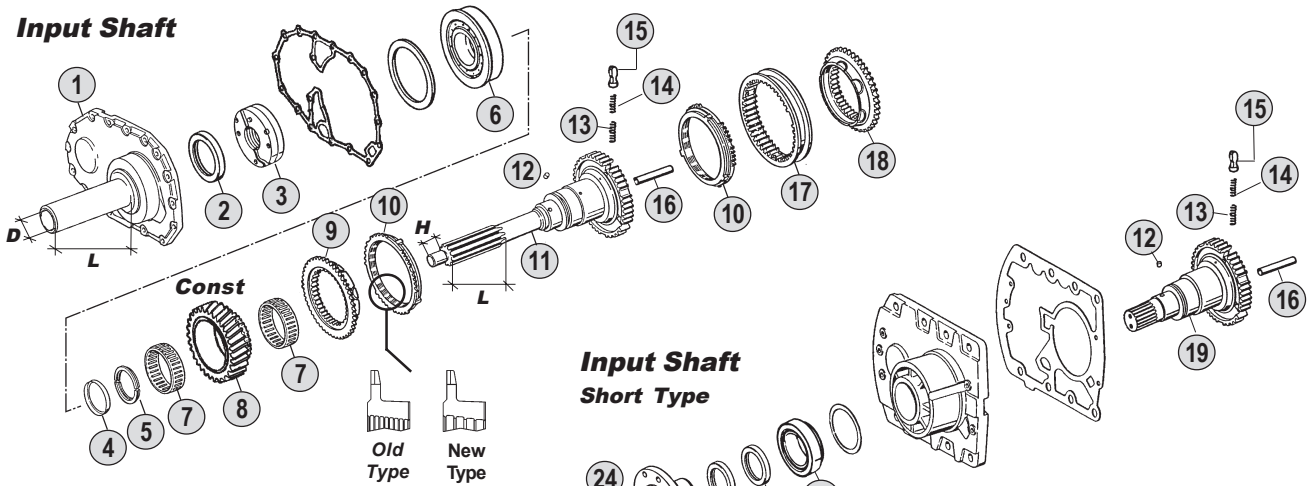
## Table

002 / A

Suitable To: **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

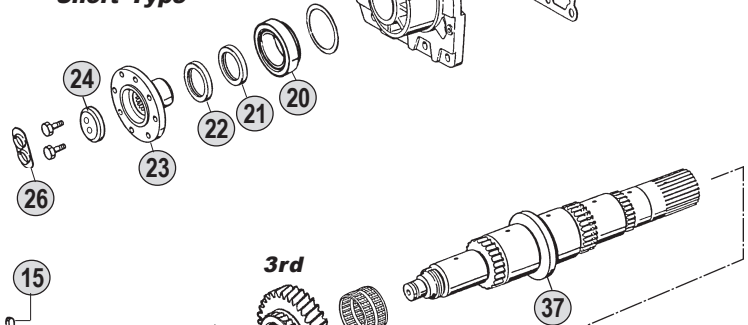
**Input Shaft**



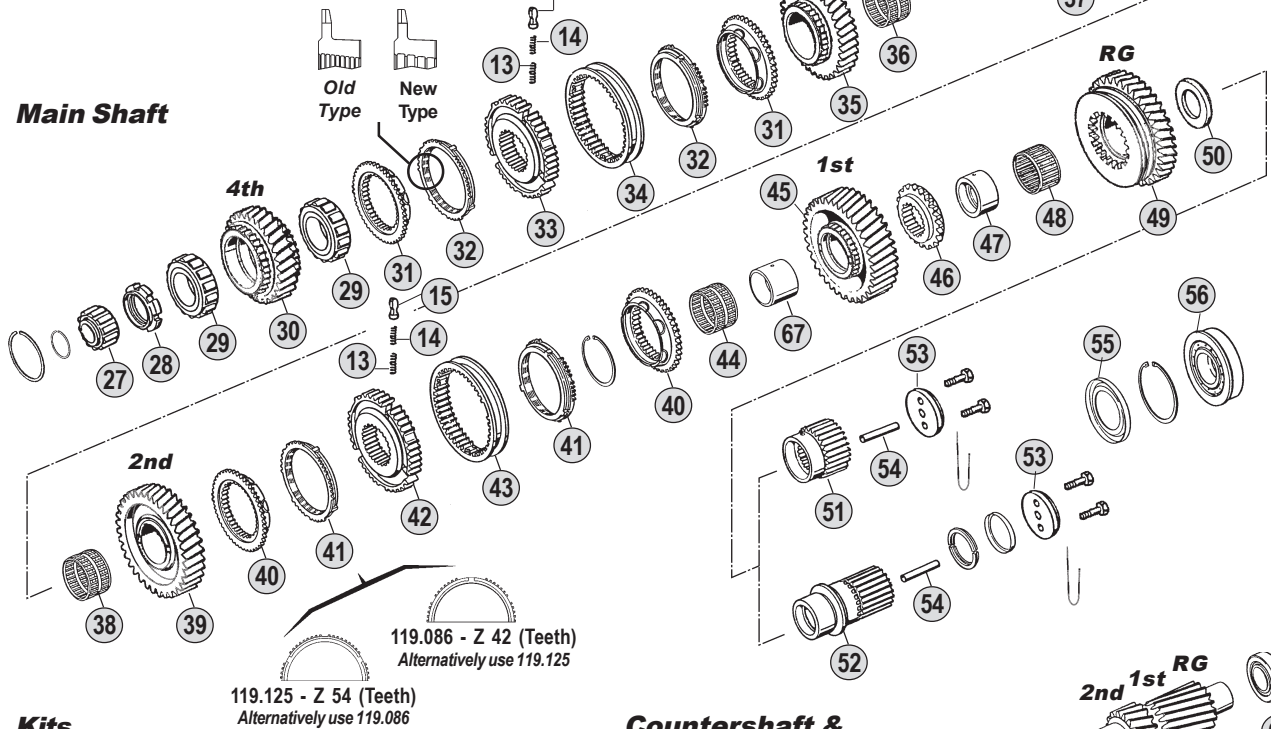
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

**Input Shaft Short Type**



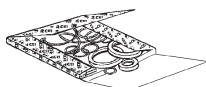
**Main Shaft**



**Kits**

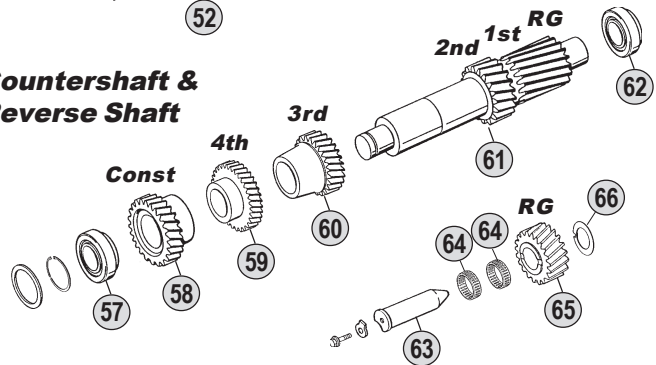


**Gasket Kit 72**



**Oil Seal Kit 71**

**Countershaft & Reverse Shaft**



**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D:--	E:--
<b>16S130</b>	A:10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	MB no.					16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)	
59	146.413	1295 303 028	000 263 8510	Gear 4th Speed 34 T	1		B	●				
59	146.461	1295 303 094		Gear 4th Speed 35 T	1		D	●				
59	<b>146.382</b>	1297 303 072	000 263 7010	Gear 4th Speed 34 T	1		B		●	●		
59	<b>146.381</b>	1297 303 065	000 263 6510	Gear 4th Speed 31 T	1		C		●	●		
59	<b>146.415</b>	1297 303 097	000 263 8010	Gear 4th Speed 35 T	1		D		●	●		
59	<b>146.416</b>	1297 303 123		Gear 4th Speed 32 T	1		E		●	●		
60	146.451	1296 303 008		Gear 3rd Speed 28 T	1		B	●				
60	<b>146.419</b>	1296 303 009	000 263 3110	Gear 3rd Speed 25 T	1		C	●				
60		1295 303 071		Gear 3rd Speed 36 T	1		A		●			
60	146.355	1295 303 025	000 263 8310	Gear 3rd Speed 28 T	1		BD		●			
60	<b>146.211</b>	1295 303 026	000 263 3510	Gear 3rd Speed 25 T	1		C		●			
60	<b>146.357</b>	1297 303 073	000 263 6810	Gear 3rd Speed 28 T	1		BD			●	●	
60	<b>146.421</b>	1297 303 067	000 263 7410	Gear 3rd Speed 25 T	1		C			●	●	
60	<b>146.422</b>	1297 303 132		Gear 3rd Speed 26 T	1		E			●	●	
61	105.117	1296 303 026		Countershaft 19-23 T	1		B	●				
61	<b>105.104</b>	1296 303 025	000 263 3502	Countershaft 17-20 T	1		C	●				
61		1295 303 072		Countershaft	1		A		●			
61	105.119	1295 303 067	000 263 4902	Countershaft 19-23 T	1		BD		●			
61	<b>105.060</b>	1295 303 066	000 263 3402	Countershaft 17-20 T	1		C		●			
61	<b>105.092</b>	1297 303 075	000 263 4502	Countershaft 19-23 T	1		BD			●	●	
61	<b>105.093</b>	1297 303 140	000 263 5002	Countershaft 17-20 T	1		CE			●	●	
62	<b>130.307</b>	0750 117 011	001 980 8002	Bearing D.50,8x104,7x39,6	1			●				
62	130.243	0750 117 008	001 980 8202	Bearing D.50x110x42	1				●			
62	<b>130.308</b>	0750 117 009	001 980 8402	Bearing D.49,2x103,1x43,6	1					●	●	
63	107.108	1295 305 056	000 263 1430	Reverse Gear Pin	1			●	●	●	●	
64	<b>137.007</b>	0750 115 011	010 981 1010	Needle Cage D.45x53x21	2			●	●	●	●	
65	147.133	1295 305 051	000 263 0232	Reverse Gear 21 T	1		B	●				
65	147.094	1295 305 052	000 263 0032	Reverse Gear 24 T	1		C	●				
65	147.153	1297 305 003		Reverse Gear 21 T	1		A		●			
65	147.133	1295 305 051	000 263 0232	Reverse Gear 21 T	1		BD		●			
65	147.094	1295 305 052	000 263 0032	Reverse Gear 24 T	1		C		●			
65	147.133	1295 305 051	000 263 0232	Reverse Gear 21 T	1		BD			●	●	
65	147.094	1295 305 052	000 263 0032	Reverse Gear 24 T	1		CE			●	●	
66	<b>169.234</b>	0730 150 064	343 263 0062	Thrust Washer	1			●	●	●	●	
67	117.246	1297 304 035	000 262 2450	Bush	1					●	●	
68	<b>198.339</b>	1268 298 938		Spring Slide Set	1			●	●	●	●	
69	<b>198.564</b>	CEI 198564		Spring Slide Set	1			●	●	●	●	
70	<b>198.842</b>	1295 298 933		Spring Slide Set	1			●	●	●	●	
71	<b>198.428</b>	1295 298 960	624 356 0080	Oil Seal Ring Kit	1			●	●	●	●	
72	<b>198.427</b>	1295 298 915		Gasket Kit	1			●	●	●	●	

**ECO I**  
From 16S112  
To 16S190

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#### Notes

- (1) Only for input Shaft 1295 221 001/003 - 1296 221 001/002 - 1297 221 005/006/009
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (4) Special MB Version. Use items marked (4) together
- (5) Only for input Shaft 1295 202 028 - 1297 202 030/053/061
- (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30) - Standard Syncro Ring Ø 192 mm (Z 63 or 54)  
Use items marked (6) together

#### Date

03 / 2006

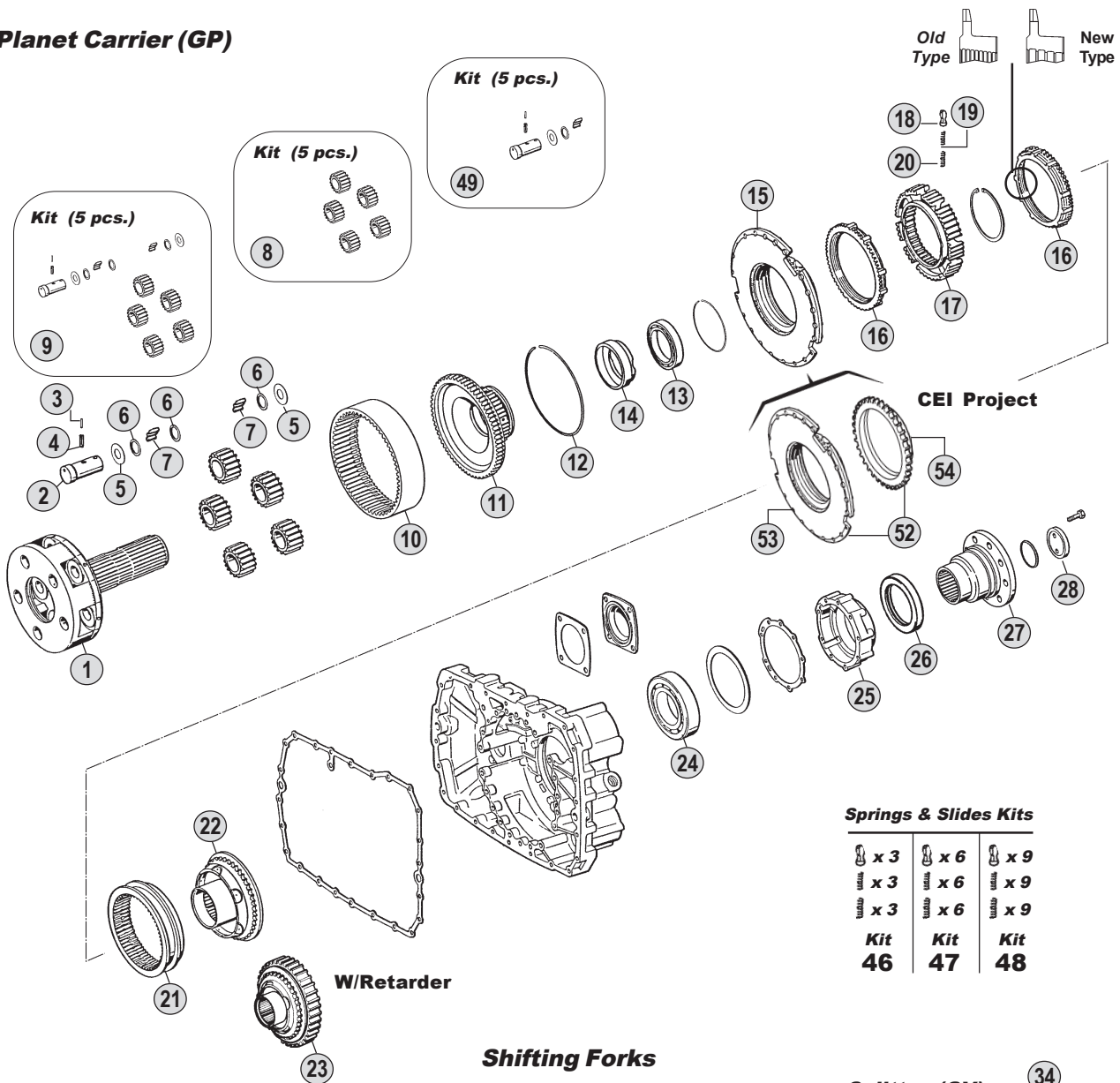
#### Table

**002 / A**

Suitable To : **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

**Planet Carrier (GP)**



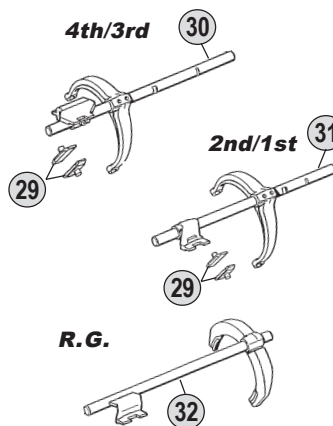
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

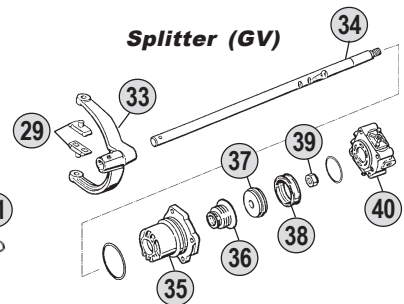
**Kits**



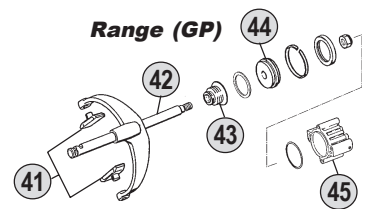
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: --	E:--
<b>16S130</b>	A: 10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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16S112 (1296)  
16S130 (1295)  
16S160 (1297)  
16S190 (1297)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					MB no.	16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)	
1	190.169	1295 232 044	000 260 3461	Planetary Carrier	1		●					
1	190.169	1295 232 044	000 260 3461	Planetary Carrier	1	ABC		●				
1	190.395	1297 232 045	000 260 4061	Planetary Carrier	1	D		●				
1	190.396	1297 232 039	000 260 3561	Planetary Carrier	1	BC			●	●		
1	190.395	1297 232 045	000 260 4061	Planetary Carrier	1	DE			●	●		
1		1316 232 005		Planetary Carrier	1	(8) E					●	
2	<b>107.089</b>	1269 332 036	000 264 1618	Planet Shaft	5		●					
2	<b>107.089</b>	1269 332 036	000 264 1618	Planet Shaft	5	ABC		●				
2	107.163	1297 332 109	000 263 0374	Planet Shaft	5	D		●				
2	107.163	1297 332 109	000 263 0374	Planet Shaft	5				●	●		
2	107.165	1312 332 026	000 263 0474	Planet Shaft	5	(8)					●	
3	160.191	0631 329 017	001 481 003 028	Lock Pin D.3x24	5		●	●	●	●		
3	160.195	0631 329 167		Lock Pin D.3x26	5	(8)					●	
4	160.192	0631 329 050	001 481 005 036	Lock Pin D.5x24	5		●	●	●	●		
4	160.194	0631 329 051		Lock Pin D.5x26	5	(8)					●	
5	169.408	0501 305 887	003 264 2252	Thrust Washer D.29x57,50x1,50	10		●					
5	169.408	0501 305 887	003 264 2252	Thrust Washer D.29x57,50x1,50	10	ABC		●				
5	169.753	0501 306 212	000 263 0562	Thrust Washer D.29x64x1,5	10	D		●				
5	169.753	0501 306 212	000 263 0562	Thrust Washer D.29x64x1,5	10				●	●		
5	169.759	0501 308 981	000 263 0762	Thrust Washer	10	(8)					●	
6	<b>169.410</b>	0730 103 846	003 264 2052	Spacer Ring D.29x39x1,00	15		●	●	●	●		
6	169.744	0730 107 168	000 264 0947	Spacer Ring	15	(8)					●	
7	<b>171.016</b>	0735 470 057	001 981 1187	Roller Set D.6x14,75 (180 pcs)	180		●					
7	<b>171.016</b>	0735 470 057	001 981 1187	Roller Set D.6x14,75 (180 pcs)	180	ABC		●				
7	171.045	0750 119 109	001 981 5487	Roller Set D.10x16,80 (120 pcs)	120	D		●				
7	171.045	0750 119 109	001 981 5487	Roller Set D.10x16,80 (120 pcs)	120				●	●		
7	171.062	0750 119 116	000 981 4686	Roller D.10x16,8	140	(8)					●	
8	<b>198.357</b>	1295 232 027	000 260 1497	Planetary Gear Set (5 pcs)	1		●					
8	<b>198.357</b>	1295 232 027	000 260 1497	Planetary Gear Set (5 pcs)	1	ABC		●				
8	198.810	1297 232 024		Planetary Gear Set (5 pcs)	1	D		●				
8	198.803	1297 232 023	000 260 1597	Planetary Gear Set (5 pcs)	1	BC			●	●		
8	198.810	1297 232 024		Planetary Gear Set (5 pcs)	1	DE			●	●		
8	198.801	1312 232 014	000 260 2397	Planetary Gear Set (5 pcs)	1	(8) E					●	
9	198.562	1296 298 904	000 262 0306	Planetary Gear Set	1		●					
9	198.562	1296 298 904	000 262 0306	Planetary Gear Set	1	ABC		●				
9	<b>198.704</b>	1297 298 912	000 262 0406	Planetary Gear Set	1	BC			●	●		
9		1297 298 919	000 260 2297	Planetary Gear Set	1	DE			●	●		
10	123.162	1295 332 053	000 263 6410	Crown Gear 83 T	1		●					
10	123.162	1295 332 053	000 263 6410	Crown Gear 83 T	1	ABC		●				
10	123.208	1295 332 086	001 263 2110	Crown Gear 86 T	1	D		●				
10	123.217	1297 332 080	000 263 6310	Crown Gear 83 T	1	BC			●	●		
10	123.208	1295 332 086	001 263 2110	Crown Gear 86 T	1	DE			●	●		
11	150.112	1295 332 021	000 263 0025	Flange Gear 83 T	1		●					
11	150.112	1295 332 021	000 263 0025	Flange Gear 83 T	1	ABC		●				
11	150.137	1297 332 035	000 263 0425	Flange Gear 86 T	1	D		●				

## Notes

(8) New Reinforced Style. Use items marked (8) together

## Date

03 / 2006

## Table

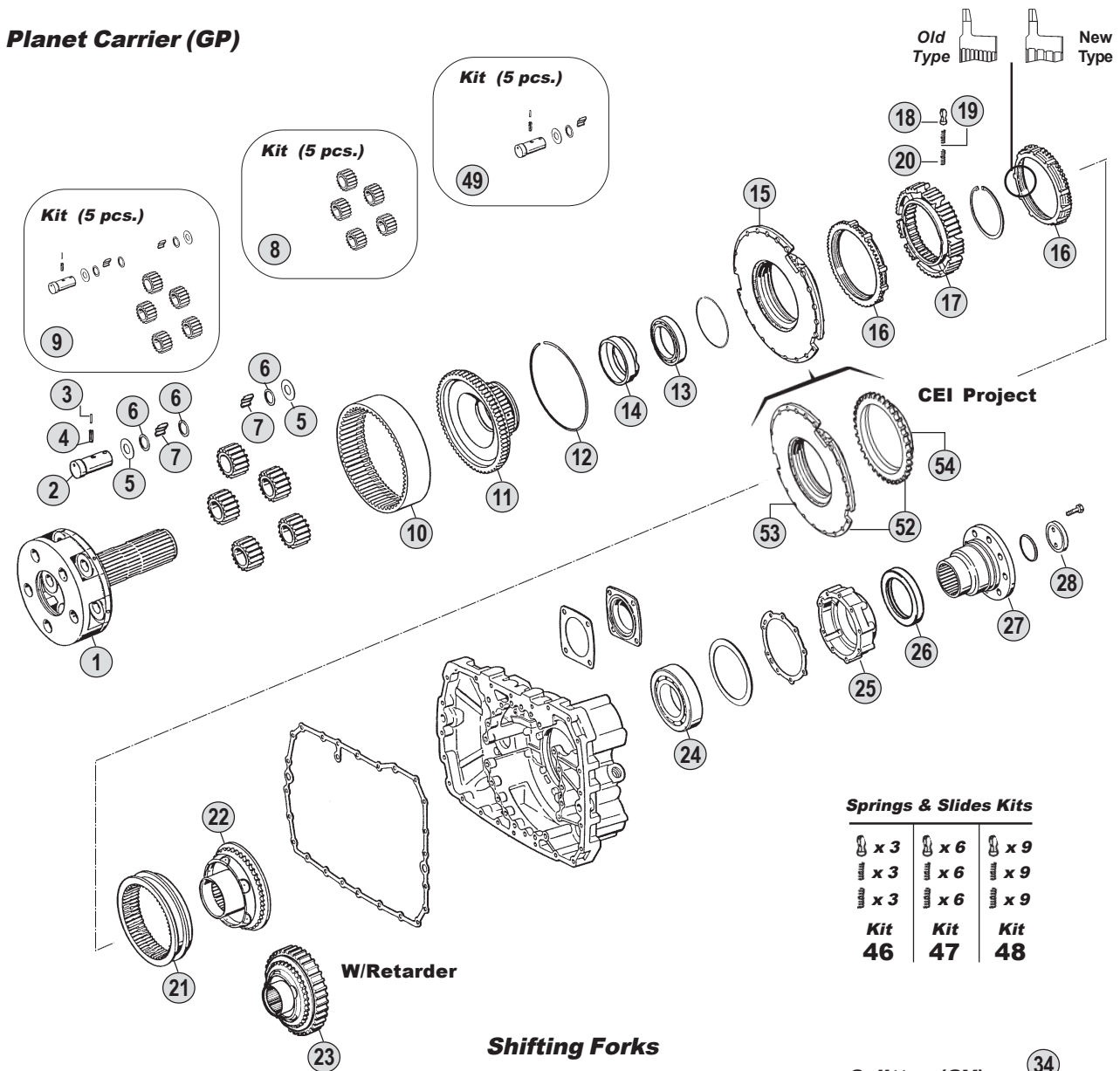
002 / B

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Suitable To : **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

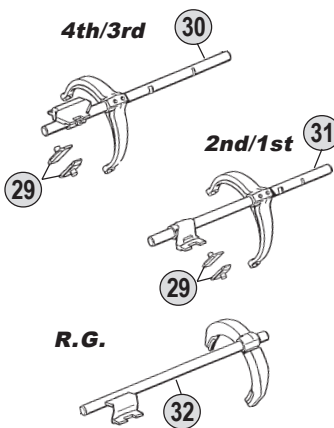
**Planet Carrier (GP)**



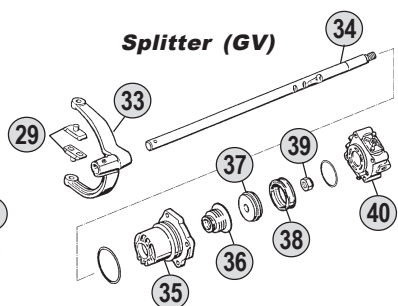
**Kits**



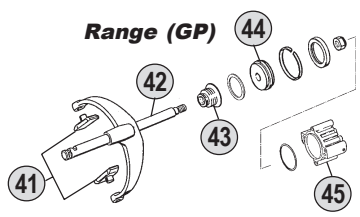
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: --	E:--
<b>16S130</b>	A: 10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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16S112 (1296)  
16S130 (1295)  
16S160 (1297)  
16S190 (1297)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.					MB no.	16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)		
11	150.138	1297 332 017	000 263 0125	Flange Gear 83 T	1		BC			●	●		
11	150.137	1297 332 035	000 263 0425	Flange Gear 86 T	1		DE			●	●		
11	150.134	1297 332 120		Flange Gear 86 T	1	(8)	E				●		
12	111.129	0730 505 055	000 263 0973	Locking Wire	1			●					
12	111.129	0730 505 055	000 263 0973	Locking Wire	1		ABC		●				
12	111.198	0730 505 056	000 263 1973	Locking Wire	1		D		●				
12	111.129	0730 505 055	000 263 0973	Locking Wire	1		BC			●	●		
12	111.198	0730 505 056	000 263 1973	Locking Wire	1		DE			●	●		
13	130.244	0750 116 166	000 981 3020	Bearing D.75x105x16	1			●					
13	130.244	0750 116 166	000 981 3020	Bearing D.75x105x16	1		ABC		●				
13	130.310	0750 116 165	000 981 3120	Bearing D.80x110x16	1		D		●				
13	130.310	0750 116 165	000 981 3120	Bearing D.80x110x16	1					●	●		
13	130.311	0635 338 035		Bearing D.100x125x13	1	(8)					●		
14		1297 332 002	000 263 1120	Ring	1		D		●				
14		1297 332 002	000 263 1120	Ring	1					●	●		
15	198.358	1296 233 006	000 263 1720	Synchronizer Cone	1			●	●	●	●		
16	119.085	1296 333 022	000 263 0234	Synchronizer Ring	2	Old Type		●	●	●	●		
16	119.172	1296 333 045	000 263 0534	Synchronizer Ring	2	New Type		●	●	●	●		
17	157.113	1296 333 002	000 263 0735	Synchronizer Hub	1			●	●	●	●		
17	157.183	1297 333 115	000 263 0935	Synchronizer Hub	1	(8)						●	
18	160.116	1240 304 278	336 264 0239	Pressure Piece	9			●	●	●	●		
19	156.036	0732 040 386	336 264 0793	Inner Spring De.3x34	9			●	●	●	●		
20	156.037	0732 040 385	336 264 0693	Outer Spring De.6x34	9			●	●	●	●		
21	154.098	1296 333 023	000 263 0523	Sliding Sleeve	1			●	●	●	●		
22	198.359	1295 233 025	000 263 1920	Synchronizer Cone (36 Spl.)	1			●					
22	198.359	1295 233 025	000 263 1920	Synchronizer Cone (36 Spl.)	1		ABC		●				
22	198.374	1313 233 001	000 263 2020	Synchronizer Cone (38 Spl.)	1		D		●				
22	198.374	1313 233 001	000 263 2020	Synchronizer Cone (38 Spl.)	1					●	●		
22	198.790	1297 233 056	000 263 2220	Synchronizer Cone (41 Spl.)	1	(8)					●		
23		1297 333 117		Synchronizer Cone	1	With Retarder	ABC		●				
23		1297 333 118		Synchronizer Cone	1	With Retarder	D		●				
23		1297 333 118		Synchronizer Cone	1	With Retarder				●	●		
24	130.245	0750 116 002	000 981 2920	Bearing D.90x160x30	1			●	●	●	●		
25		1296 301 067	000 261 0932	Cover	1			●	●	●	●		
25	128.098	1315 301 220	000 261 1732	Cover	1			●	●	●	●		
25		1296 301 067	000 261 0932	Cover	1							●	
25	128.098	1315 301 220	000 261 1732	Cover	1	(8)						●	
26		0750 111 341	021 997 6447	Oil Seal 105x130x12	1			●	●	●	●		
27		1295 238 003		Output Flange	1	D.165-8.H.		●					
27		1295 338 061	000 264 3645	Output Flange	1	D.180-4.H.		●					
27	197.051	1295 338 014	000 264 2745	Output Flange	1	D.180-10.H.		●					
27		1295 338 059	000 264 3745	Output Flange	1	D.180-10.H.		●					
27		1295 238 003		Output Flange	1	D.165-8.H.	ABC		●				
27		1295 338 061	000 264 3645	Output Flange	1	D.180-4.H.-	ABC		●				
27	197.051	1295 338 014	000 264 2745	Output Flange	1	D.180-10.H.	ABC		●				

## Notes

(8) New Reinforced Style. Use items marked (8) together

## Date

03 / 2006

## Table

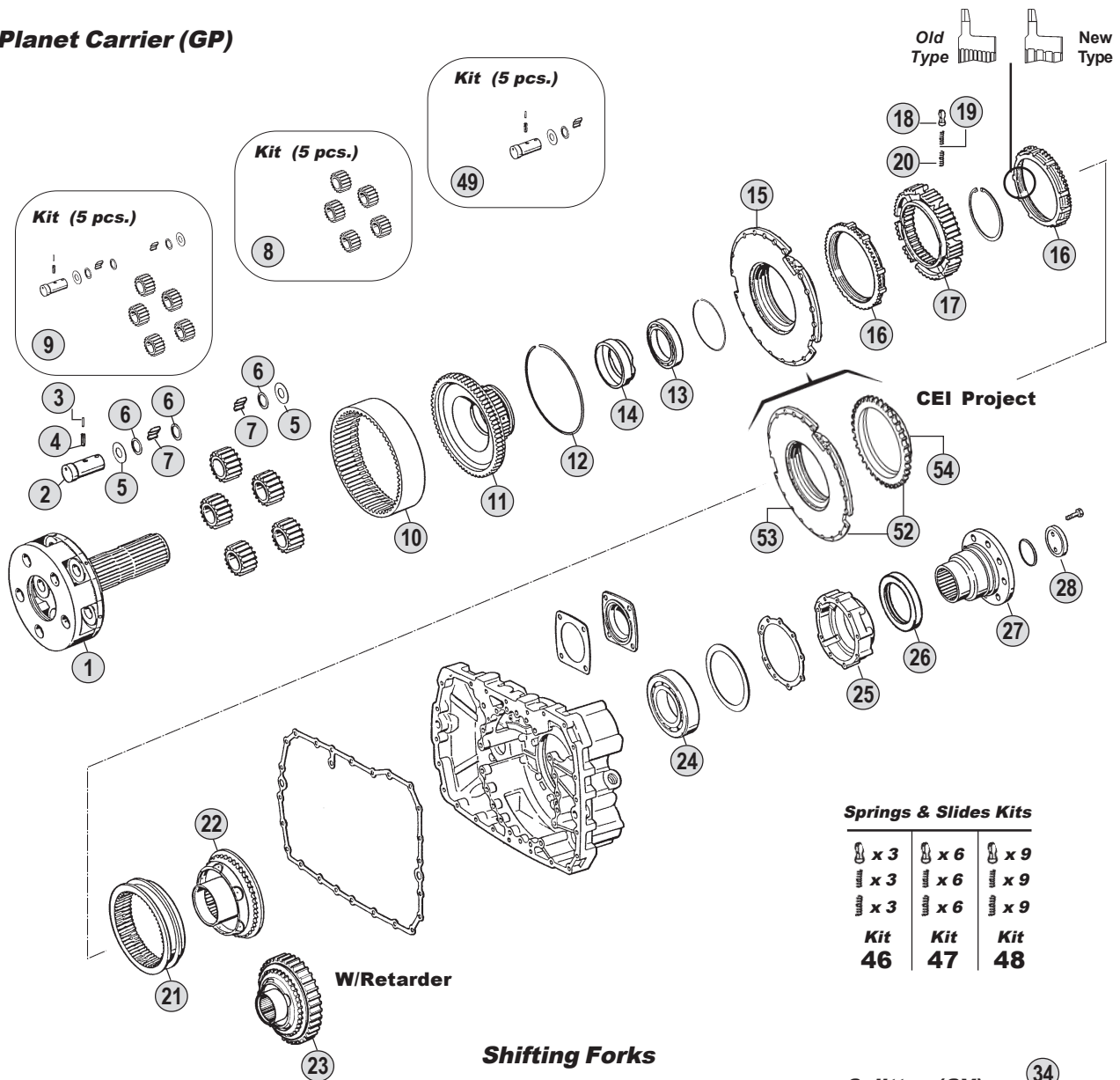
002 / B

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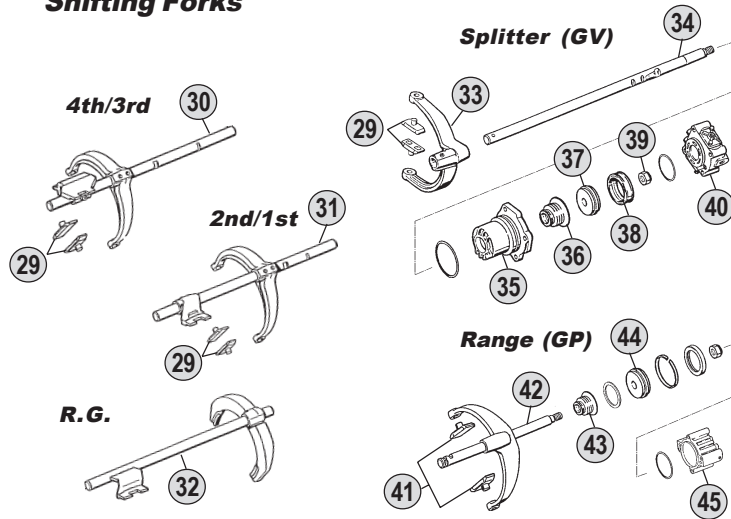
Suitable To : **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

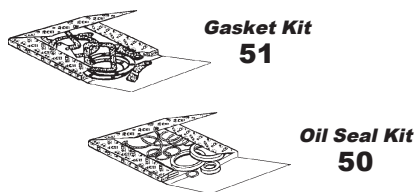
**Planet Carrier (GP)**



**Shifting Forks**



**Kits**



**Ratios**

<b>16S112</b>	A :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : --	E : --
<b>16S130</b>	A : 10,14 - 0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : --
<b>16S160</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,29 - 1,00
<b>16S190</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,29 - 1,00



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16S112 (1296)  
16S130 (1295)  
16S160 (1297)  
16S190 (1297)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.					MB no.	16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)		
27		1295 338 059	000 264 3745	Output Flange	1	D.180-10.H.	ABC		●				
27	197.074	1295 338 016		Output flange	1	D.204-4.H.	ABC		●				
27		1295 338 028		Output Flange	1	D.204-4.H.	ABC		●				
27		1297 338 041	000 264 4245	Output Flange	1	D.180-4.H.	D		●				
27		1297 338 010	000 264 2845	Output Flange	1	D.180-10.H.	D		●				
27		1297 338 041	000 264 4245	Output Flange	1	D.180-4.H.				●	●		
27		1297 338 038	000 264 4145	Output Flange	1	D.180-10.H.				●	●		
27		1297 338 010	000 264 2845	Output Flange	1	D.180-10.H.				●	●		
27		1297 333 110		Output Flange	1	(8) D.180-4.H.					●		
28	188.077	1295 332 051	000 264 1976	Stop Washer	1			●	●	●	●		
28		1295 332 064	000 264 2176	Stop Washer	1	Only With 1295 238 003		●	●				
28		1312 332 028		Stop Washer	1	(8)					●		
29	141.068	1295 306 132	000 268 0849	Bronze Slide	2			●	●	●	●		
30		1296 206 064	001 265 4805	Fork	1			●					
30		1296 206 061		Fork	1			●					
30		1295 206 219		Fork	1				●				
30		1295 206 212	001 265 4605	Fork	1				●				
30	198.362	1295 206 213		Fork	1				●				
30		1297 206 103	001 265 5705	Fork	1					●	●		
30		1297 206 104		Fork	1					●	●		
30		1297 206 192	001 265 9505	Fork	1						●		
31		1296 206 063	001 265 4705	Fork	1			●					
31		1296 206 062		Fork	1			●					
31		1295 206 223		Fork	1				●				
31		1295 206 217		Fork	1				●				
31		1295 206 214		Fork	1				●				
31		1295 206 215	001 265 4505	Fork	1				●				
31		1297 206 106	001 265 5605	Fork	1					●	●		
31		1297 206 105		Fork	1					●	●		
31		1297 206 191	001 265 9405	Fork	1						●		
32		1296 206 077	001 265 8505	Fork	1			●					
32		1296 206 078		Fork	1			●					
32		1295 206 250		Fork	1				●				
32		1295 206 249		Fork	1				●				
32	198.360	1295 206 255		Fork	1				●				
32		1295 206 254	001 265 8005	Fork	1				●				
32		1297 206 174	001 265 8105	Fork	1					●	●		
32		1297 206 175		Fork	1					●	●		
32		1297 206 181	001 265 8405	Fork	1						●		
33		1313 312 002	000 265 3701	Fork	1			●	●	●	●		
34		1296 312 001	000 265 4305	Selector Rod	1			●					
34	149.172	1295 312 018	000 265 4805	Selector rod	1				●				
34		1297 312 008	000 265 5305	Selector Rod	1					●	●		
35	132.046	1296 312 042	000 267 0519	Cylinder	1			●	●	●	●		
36	139.331	0750 112 034	000 267 0697	Cap Collar D.25x38x14,2	1			●	●	●	●		

## Notes

(8) New Reinforced Style. Use items marked (8) together

## Date

03 / 2006

## Table

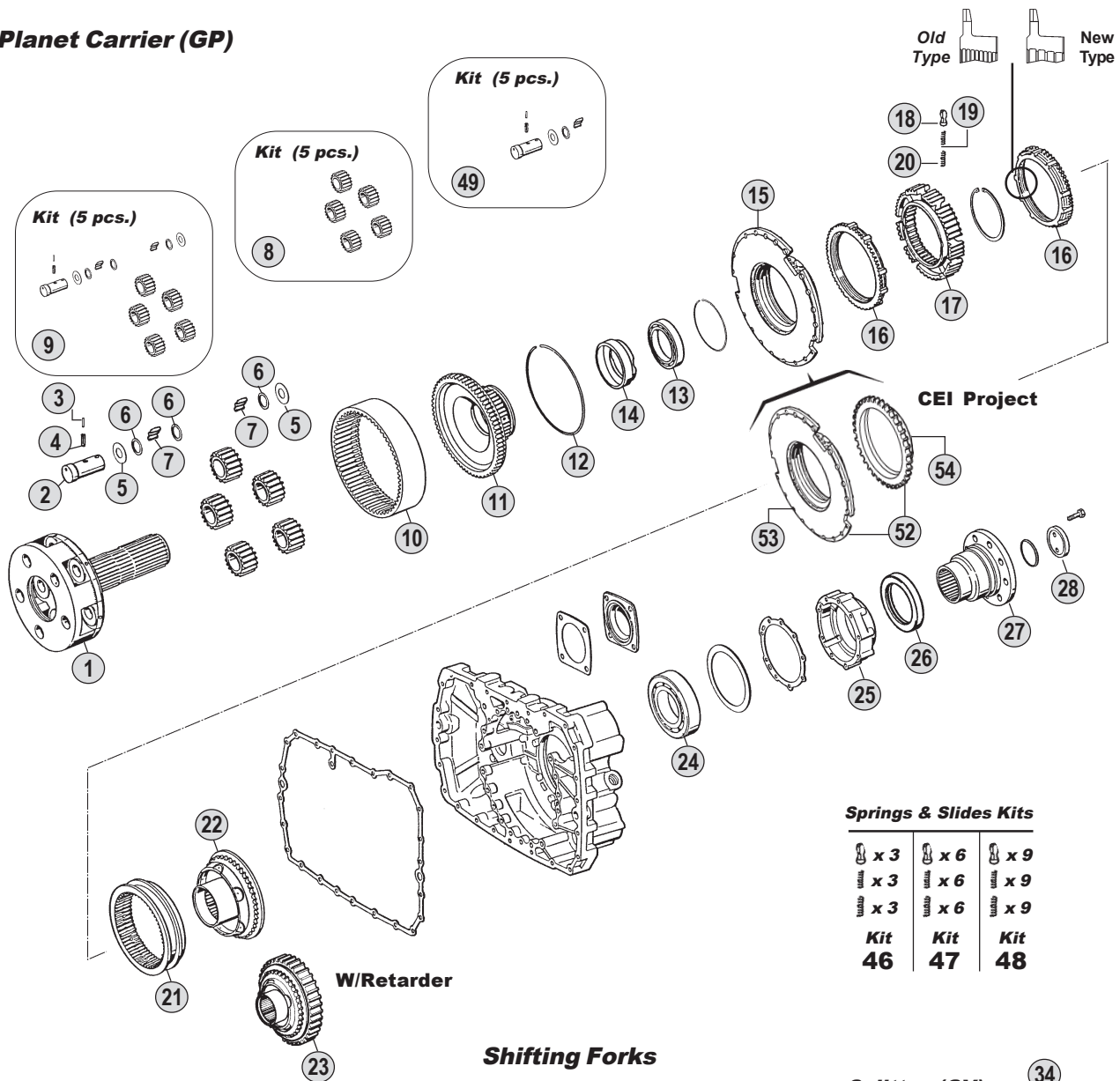
002 / B

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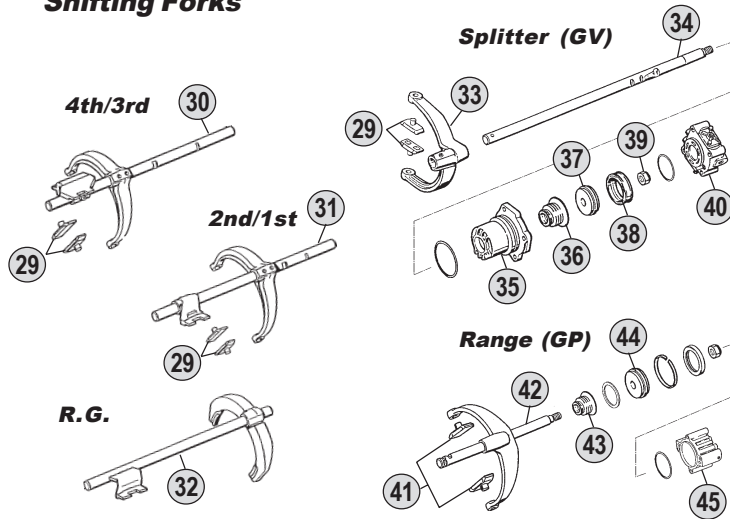
Suitable To : **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

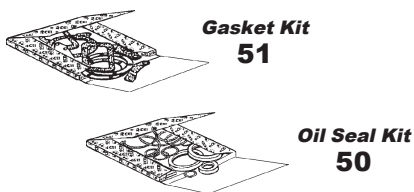
**Planet Carrier (GP)**



**Shifting Forks**



**Kits**



**Ratios**

<b>16S112</b>	A :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : --	E : --
<b>16S130</b>	A : 10,14 - 0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : --
<b>16S160</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,29 - 1,00
<b>16S190</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,29 - 1,00



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	MB no.					16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)		
37	189.421	1296 312 053	000 267 0918	Piston	1			●	●	●	●		
38		0750 112 089	000 267 0997	Ring 53x63x16,2	1			●	●	●	●		
39		0737 006 095	000 990 9658	Nut	1			●	●	●	●		
40		0750 132 032		Cylinder	1			●	●	●	●		
40		0750 132 033	001 260 3057	Cylinder	1			●	●	●	●		
40	280.350	1295 212 008	001 260 5957	Cylinder	1			●	●	●	●		
40		1295 212 009	001 260 3157	Cylinder	1					●			
41	141.085	1296 334 004	000 265 0649	Bronze Slide	2			●	●	●	●		
42		1313 234 011	002 265 1005	Fork	1			●					
42	149.171	1312 234 002	002 265 0205	Fork Lever	1				●	●	●		
43	139.331	0750 112 034	000 267 0697	Cap Collar D.25x38x14,2	1			●	●	●	●		
44	189.422	1296 334 039	000 267 0818	Piston	1			●	●	●	●		
44		1297 334 056	000 267 1518	Piston	1	(8)					●		
45	132.047	1295 334 075	000 267 2119	Cylinder	1			●	●	●	●		
45		1297 334 055		Cylinder	1	(8)					●		
46	198.339	1268 298 938		Spring Slide Set	1			●	●	●	●		
47	198.564	CEI 198564		Spring Slide Set	1			●	●	●	●		
48	198.842	1295 298 933		Spring Slide Set	1			●	●	●	●		
49	198.447	CEI 198447		Gear Set	1		ABC		●				
50	198.428	1295 298 960	624 356 0080	Oil Seal Ring Kit	1			●	●	●	●		
51	198.427	1295 298 915		Gasket Kit	1			●	●	●	●		
52	198.856	CEI 198856		Synchronizer cone kit	1	Can repl. fig. 15		●	●	●	●		
53	135.128	CEI 135128		Saddle Plate	1	Use with fig. 54		●	●	●	●		
54	109.174	1296 333 050		Synchronizer Cone	1	Use with fig. 53		●	●	●	●		

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**ECO I**  
From 16S112  
To 16S190

## Notes

(8) New Reinforced Style. Use items marked (8) together

## Date

03 / 2006

## Table

002 / B



suitable to :

**Z.F.****EcoSplit II****From 16S150 to 16S220****ECO II**  
16S220**Application**

	16S150 (1313)	16S220 (1312)		
<b>MERCEDES</b>				
<b>MAN</b>				
<b>IVECO</b>				
<b>RVI</b>				
<b>DAF</b>				
<b>VOLVO</b>				

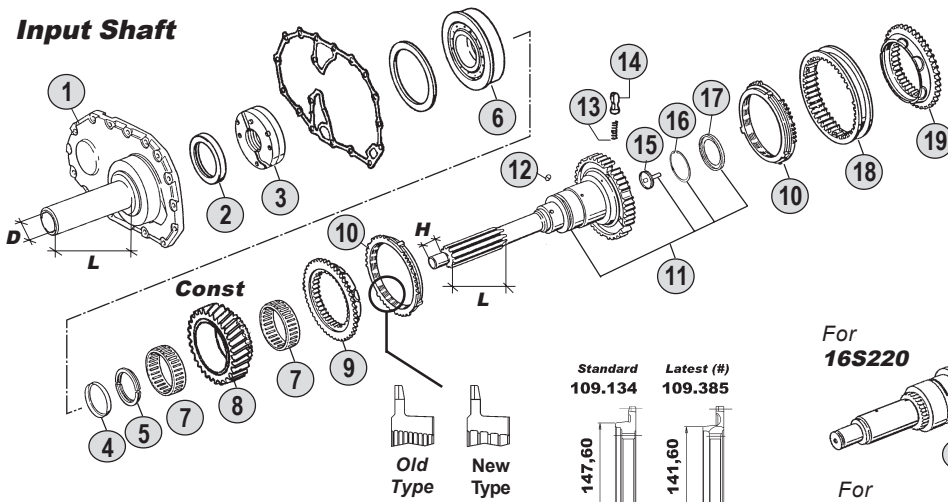
**Ratios**

	R.10,14-0,72 <b>A</b>	R.13,80-0,84 <b>B</b>	R.16,47-1,00 <b>C</b>		
<b>16S150</b>					
<b>16S220</b>					

Suitable To : **ZF**

**16S220**

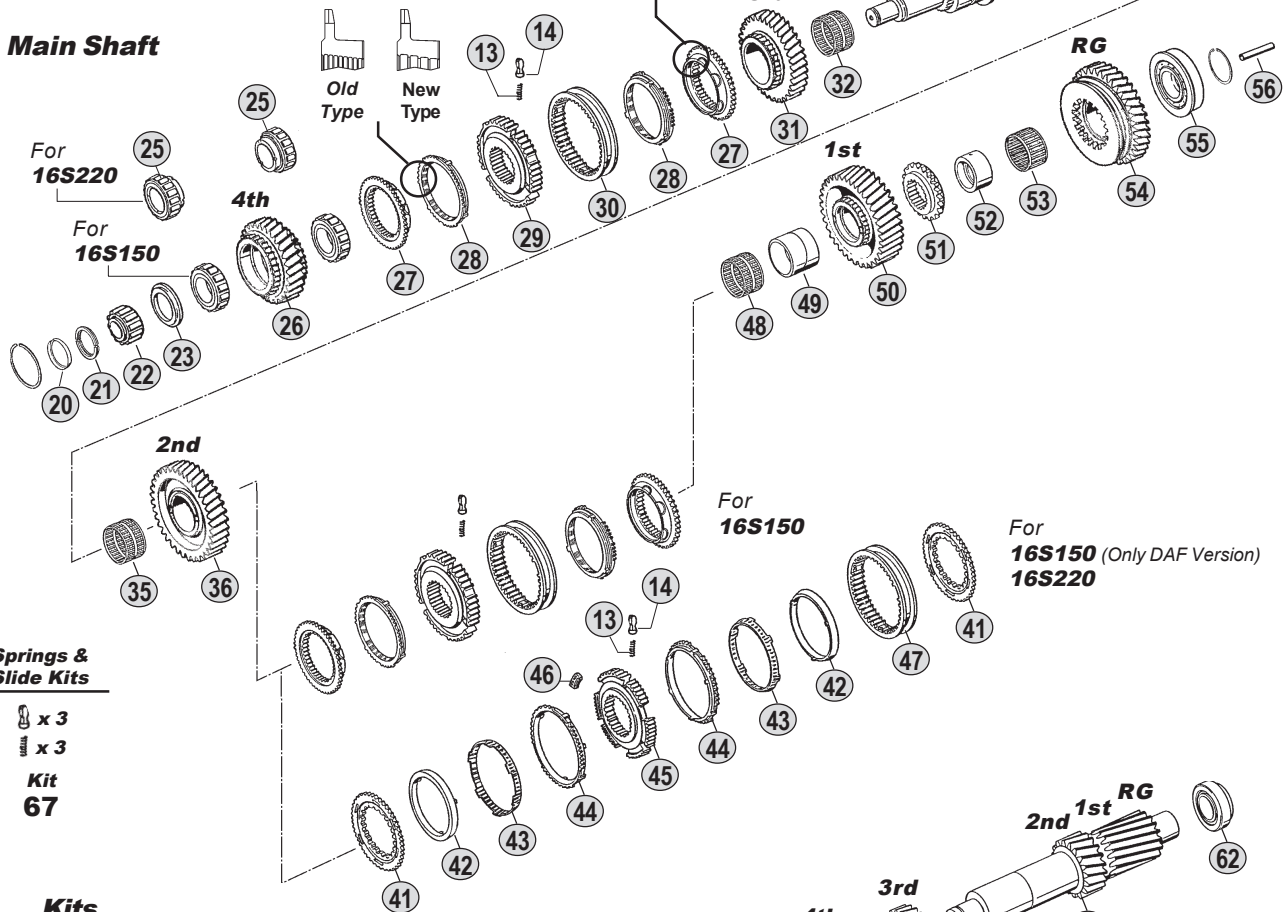
**Input Shaft**



(#)  
**Synchro Rebuilt Kit**  
4th / 3rd  
Fig. 13/14/27/28/29/30



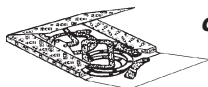
**Main Shaft**



**Springs & Slide Kits**

- x 3
- x 3
- Kit 67**

**Kits**

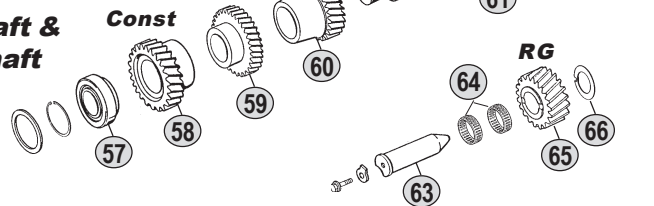


**Gasket Kit 69**



**Oil Seal Kit 68**

**Countershaft & Reverse Shaft**



**Ratios**

**16S220** A: 10,14-0,72 B: 13,80 - 0,84 C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	MB no.					16S220 (1312)					
1		1312 302 036		Front Cover	1	L=170-D=60	●						
2		0734 310 386	023 997 9447	Oil Seal 55x75x8	1		●						
3	<b>280.348</b>	1295 202 041	000 260 1290	Oil Pump	1		●						
4	169.754	0730 061 816	000 262 0673	Securing Ring	1		●						
5		0730 106 168		Split Ring	1	S.4,30 mm	●						
5		0730 106 158		Split Ring	1	S.3,80 mm	●						
6	<b>130.306</b>	0750 117 431	009 981 0001	Bearing D.75x150x30,50	1		●						
7	<b>137.134</b>	0735 321 438	016 981 3410	Needle Cage D.93x101x32,50	1		●						
8		1312 302 077		Constant Gear 28 T	1		A	●					
8	<b>145.491</b>	1312 302 073		Constant Gear 34 T	1		B	●					
8	145.490	1312 302 074		Constant Gear 30 T	1		C	●					
9	<b>109.134</b>	1312 304 027	000 262 5535	Synchronizer Cone	1			●					
10	<b>119.119</b>	1297 304 402	000 262 3834	Synchronizer Ring	2	Old Type		●					
10	<b>119.167</b>	1297 304 484	000 262 7034	Synchronizer Ring	2	New Type		●					
11	102.244	1312 202 037		Input Shaft	1			●					
12		0635 470 012	005 402 007 200	Pin	1			●					
13	<b>156.140</b>	0732 040 409	005 993 6101	Spring D.6,50x23,50	3			●					
14	<b>160.189</b>	1297 304 436	000 264 0839	Pressure Piece	3			●					
15		1312 302 095		Tube	1			●					
16		0630 502 027		Ring	1			●					
17		0501 320 435		Diaphragm	1			●					
18	<b>154.135</b>	1310 304 202	001 262 1823	Sliding Sleeve	1			●					
19	<b>109.133</b>	1312 304 056		Synchronizer Cone	1			●					
20		0730 062 781	000 262 1373	Ring	1			●					
21		0730 107 023		Split Ring	1	S.5,00 mm		●					
21		0730 107 019		Split Ring	1	S.4,60 mm		●					
22	<b>137.150</b>	0750 117 232	009 981 0201	Roller Cage D.42x40,30	1			●					
23		1315 304 051		Ring	1	S.8,30 mm		●					
25		0750 118 258	002 980 1602	Roller Cage D.67x101x38	1			●					
26		1312 304 029		Gear 4th Speed 30T	1	(1)	A	●					
26	<b>146.425</b>	1312 304 032		Gear 4th Speed 30 T	1		B	●					
26	146.317	1312 304 031		Gear 4th Speed 34 T	1		C	●					
27	<b>109.134</b>	1312 304 027	000 262 5535	Synchronizer Cone	2			●					
27	<b>109.385</b>	1316 304 159		Synchronizer Cone	2		(#)	●					
28	<b>119.119</b>	1297 304 402	000 262 3834	Synchronizer Ring	2	Old Type		●					
28	<b>119.167</b>	1297 304 484	000 262 7034	Synchronizer Ring	2	New Type		●					
28	<b>119.217</b>	1316 304 149		Synchronizer Ring	2		(#)	●					
29	<b>157.180</b>	1312 304 052		Synchronizer Hub	1			●					
29	<b>157.227</b>	1316 304 162		Synchronizer hub	1		(#)	●					
30	<b>154.135</b>	1310 304 202	001 262 1823	Sliding Sleeve	1			●					
30	<b>154.357</b>	1315 304 135		Sliding Sleeve	1		(#)	●					
31		1312 304 075		Gear 3rd Speed 25 T	1	(1)	A	●					
31	145.498	1312 304 137		Gear 3rd Speed 32 T	1		B	●					
31	145.497	1312 304 136		Gear 3rd Speed 34 T	1		C	●					
32		0735 321 451		Needle Cage D.82x90x60	1		A	●					

## Notes

- (1) 16S220 Special Version - Ratio 10,14-0,72. For this version to use :  
4th Speed - Synchro Cone 1312 304 027 / 3rd Speed Synchro - Cone 1312 304 080  
(#) Latest Synchro generation. **DO NOT MIX** the two different version.  
To update the previous one use the **synchro rebuilt kit fig. 70**

## Date

03 / 2006

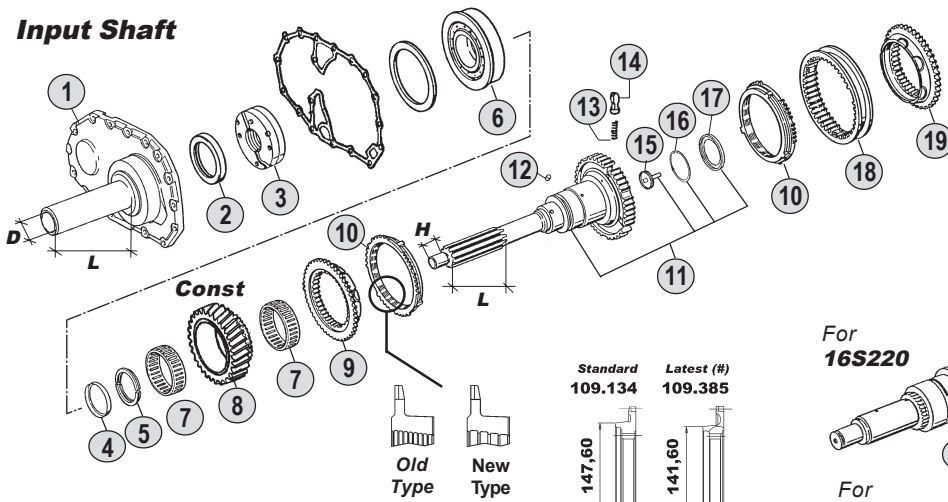
## Table

003 / A

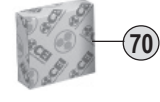
Suitable To : **ZF**

**16S220**

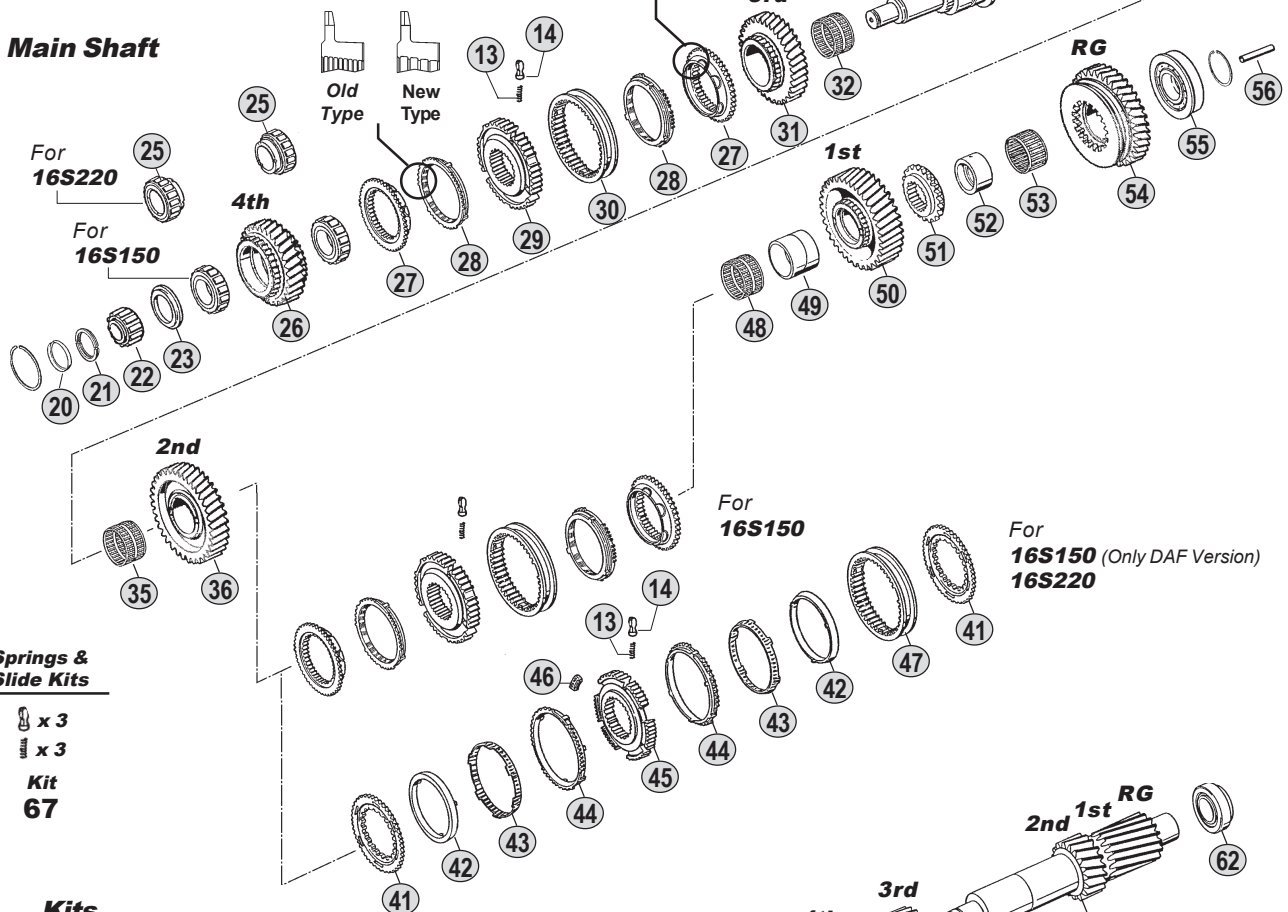
**Input Shaft**



(#)  
**Synchro Rebuilt Kit**  
4th / 3rd  
Fig. 13/14/27/28/29/30



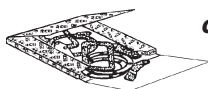
**Main Shaft**



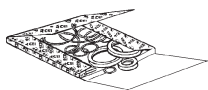
**Springs & Slide Kits**

- x 3
- x 3
- Kit 67**

**Kits**

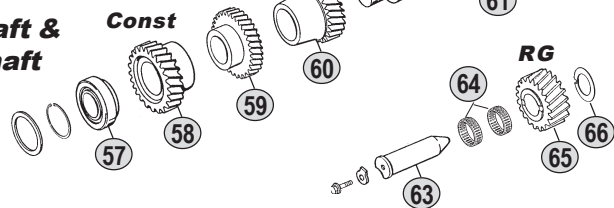


**Gasket Kit 69**



**Oil Seal Kit 68**

**Countershaft & Reverse Shaft**



**Ratios**

**16S220** A: 10,14-0,72 B: 13,80 - 0,84 C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	MB no.											
32	<b>137.138</b>	0750 115 303		Needle Cage D.92x100x63	1		BC	●						
34		1312 304 161		Main Shaft	1		A	●						
34	<b>103.128</b>	1316 304 130	000 262 7805	Main Shaft	1		BC	●						
35	<b>137.138</b>	0750 115 303		Needle Cage D.92x100x63	1			●						
36		1312 304 142		Gear 2nd Speed	1		A	●						
36	145.504	1312 304 141		Gear 2nd Speed 37 T	1		B	●						
36	145.503	1312 304 139	000 262 6712	Gear 2nd Speed 38 T	1		C	●						
41		1312 304 092		Synchronizer Cone	2		A	●						
41	<b>109.176</b>	1312 304 106	000 263 2120	Synchronizer Cone	2		BC	●						
42	<b>119.152</b>	1268 304 424	000 262 2636	Intermediate Ring	2			●						
43	<b>119.153</b>	1268 304 494	000 262 3436	Intermediate Cone	2			●						
44	<b>119.144</b>	1268 304 525	000 262 3934	Synchronizer Ring	2			●						
45	<b>157.181</b>	1312 304 158		Synchronizer Hub	1			●						
46	<b>156.176</b>	1312 304 159	000 262 4240	Pad	3			●						
47	<b>154.190</b>	1310 304 175	001 262 1123	Sliding Sleeve	1			●						
48		0750 115 304		Needle Cage D.92x100x72	1		A	●						
48	<b>137.151</b>	0750 115 327		Needle Cage D.96x104x72	1		BC	●						
49		1312 304 008		Bush	1		A	●						
49	<b>117.310</b>	1312 304 084		Bush D.85x96x72	1		BC	●						
50		1312 304 077		Gear 1st Speed 34 T	1		A	●						
50	145.509	1312 304 086		Gear 1st Speed 44 T	1		B	●						
50	145.510	1312 304 085		Gear 1st Speed 47 T	1		C	●						
51		1312 304 037		Engaging Ring	1		A	●						
51	109.181	1312 304 083		Engaging Ring	1		BC	●						
52		1312 304 011		Bush	1		A	●						
52	<b>117.311</b>	1316 304 133	000 262 7150	Bush D.80x90x50	1		BC	●						
53		0735 321 103		Roller Cage D.77x85x50	1		A	●						
53	<b>137.140</b>	0750 115 326		Roller Cage D.90x98x50	1		BC	●						
54		1312 304 078		Reverse Gear 39 T	1		A	●						
54	147.141	1312 304 088		Reverse Gear 39 T	1		B	●						
54	147.139	1312 304 087		Reverse Gear 38 T	1		C	●						
55		0750 117 233		Bearing D.65x140x36,5	1		A	●						
55	<b>130.304</b>	0750 117 678		Bearing D.80x140x36,50	1		BC	●						
56	188.209	1312 304 150	000 262 1953	Oil Tube	1			●						
57	<b>130.308</b>	0750 117 009	001 980 8402	Bearing D.49,2x103,1x43,6	1			●						
58		1312 303 003		Constant Gear 34 T	1		A	●						
58	<b>146.411</b>	1312 303 006		Constant Gear 37 T	1		B	●						
58	146.412	1312 303 005		Constant Gear 39 T	1		C	●						
59		1312 303 014		Gear 4th Speed 31 T	1		A	●						
59	<b>146.417</b>	1312 303 017		Gear 4th Speed 39 T	1		B	●						
59	146.418	1312 303 016		Gear 4th Speed 37 T	1		C	●						
60		1312 303 036		Gear 3rd Speed 36 T	1		A	●						
60	146.423	1312 303 020		Gear 3rd Speed 28 T	1		B	●						
60	146.424	1312 303 021		Gear 3rd Speed 26 T	1		C	●						
61		1312 303 037		Countershaft 20-24 T	1		A	●						

## Notes

- (1) 16S220 Special Version - Ratio 10,14-0,72. For this version to use :  
4th Speed - Synchro Cone 1312 304 027 / 3rd Speed Synchro - Cone 1312 304 080  
(#) Latest Synchro generation. **DO NO MIX** the two different version.  
To update the previous one use the **synchro rebuilt kit fig. 70**

## Date

03 / 2006

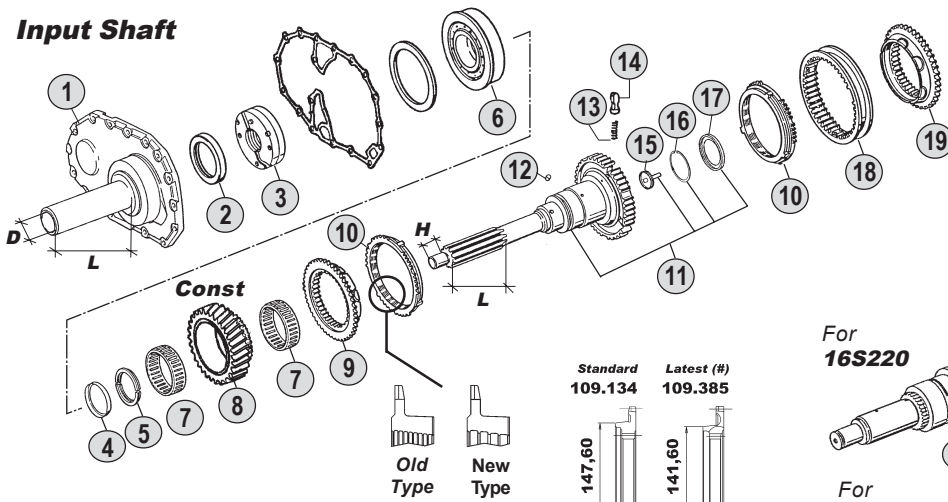
## Table

003 / A

Suitable To : **ZF**

**16S220**

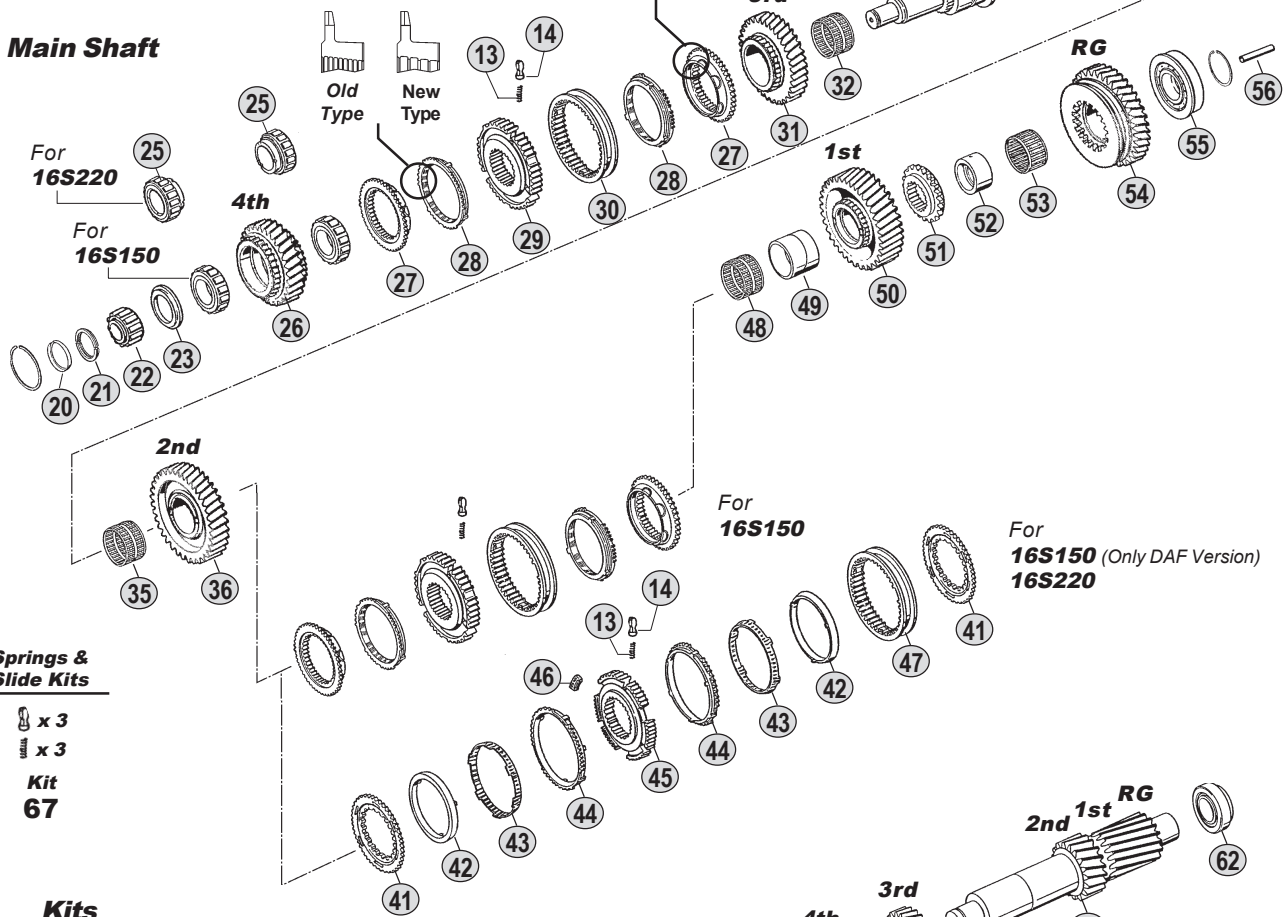
**Input Shaft**



(#)  
**Synchro Rebuilt Kit**  
4th / 3rd  
Fig. 13/14/27/28/29/30



**Main Shaft**



**Springs & Slide Kits**

- x 3
- x 3
- Kit 67**

**Kits**

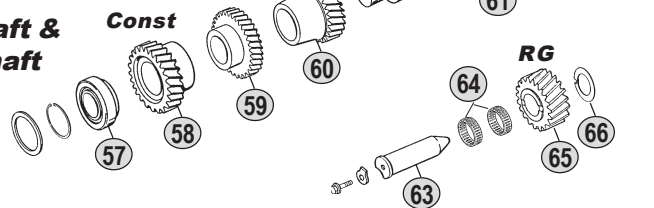


**Gasket Kit 69**



**Oil Seal Kit 68**

**Countershaft & Reverse Shaft**



**Ratios**

**16S220** A: 10,14-0,72 B: 13,80 - 0,84 C: 16,47 - 1,00

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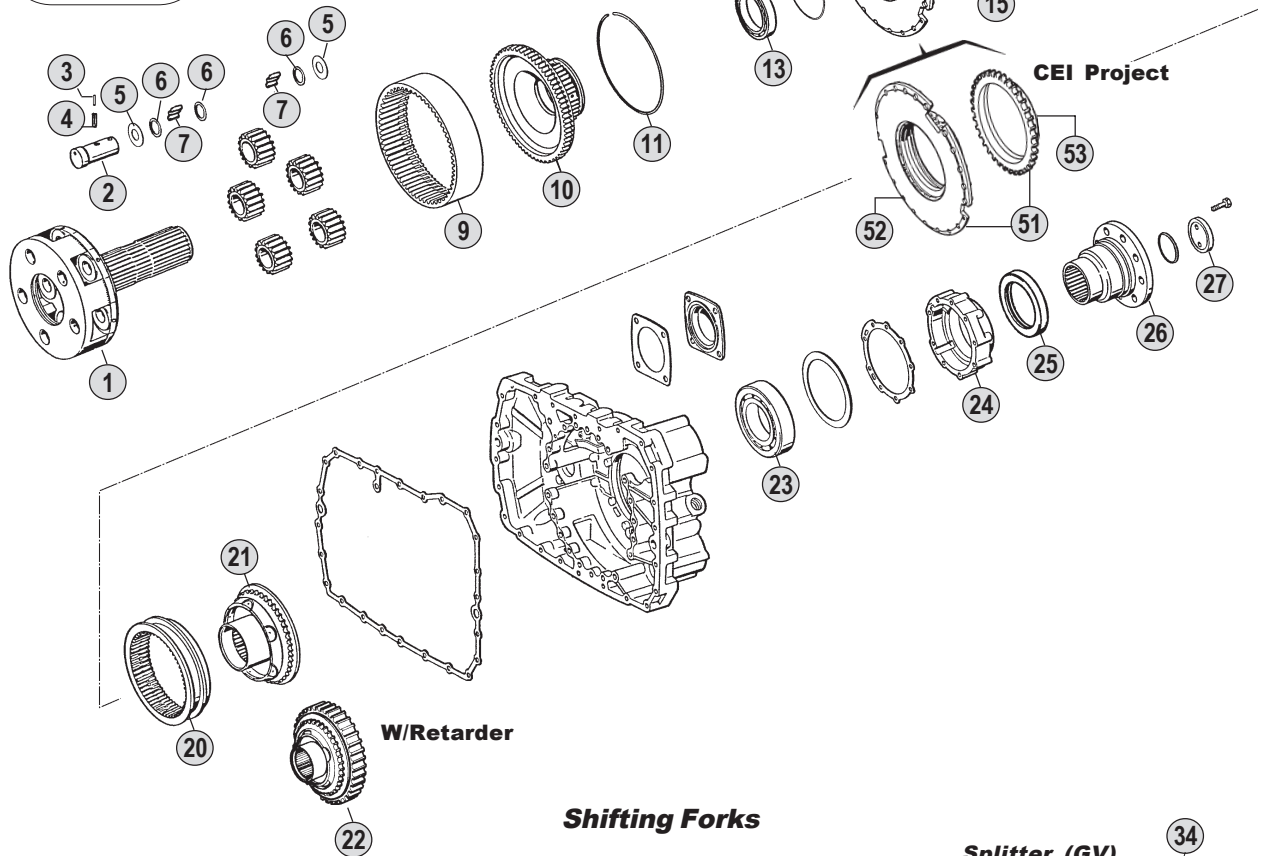
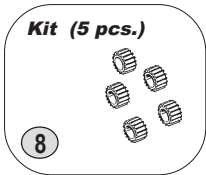


**Planet Carrier (GP)**

**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

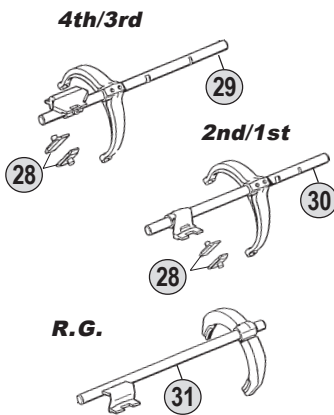
Old Type New Type



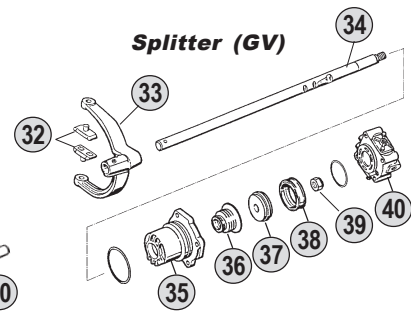
**Kits**



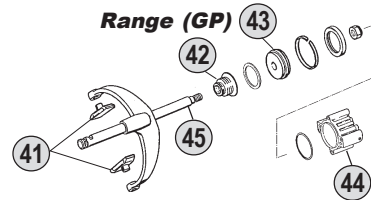
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Ratios**

**16S220** A: 10,14-0,72 B: 13,80 - 0,84 C: 16,47 - 1,00

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					MB no.	16S220 (1312)						
1		1312 232 016		Planetary Carrier	1	A	●							
1	190.392	1316 232 006		Planetary Carrier	1	BC	●							
2	107.163	1297 332 109	000 263 0374	Planet Shaft	5	A	●							
2	107.165	1312 332 026	000 263 0474	Planet Shaft	5	BC	●							
3	160.195	0631 329 167		Lock Pin D.3x26	5		●							
4	160.194	0631 329 051		Lock Pin D.5x26	5		●							
5	169.753	0501 306 212	000 263 0562	Thrust Washer D.29x64x1,5	10	A	●							
5	169.759	0501 308 981	000 263 0762	Thrust Washer	10	BC	●							
6	<b>169.410</b>	0730 103 846	003 264 2052	Spacer Ring D.29x39x1,00	15	A	●							
6	169.744	0730 107 168	000 264 0947	Spacer Ring	15	BC	●							
7	171.062	0750 119 116	000 981 4686	Roller D.10x16,8	120	A	●							
7	171.062	0750 119 116	000 981 4686	Roller D.10x16,8	140	BC	●							
8	198.803	1297 232 023	000 260 1597	Planetary Gear Set (5 pcs)	1	A	●							
8	198.801	1312 232 014	000 260 2397	Planetary Gear Set (5 pcs)	1	BC	●							
9	123.217	1297 332 080	000 263 6310	Crown Gear 83 T	1	A	●							
9	123.208	1295 332 086	001 263 2110	Crown Gear 86 T	1	BC	●							
10		1297 332 108		Flange Gear 83 T	1	A	●							
10	150.134	1297 332 120		Flange Gear 86 T	1	BC	●							
11	111.129	0730 505 055	000 263 0973	Locking Wire	1	A	●							
11	111.198	0730 505 056	000 263 1973	Locking Wire	1	BC	●							
13	130.311	0635 338 035		Bearing D.100x125x13	1		●							
14	<b>198.358</b>	1296 233 006	000 263 1720	Synchronizer Cone	1		●							
15	<b>119.085</b>	1296 333 022	000 263 0234	Synchronizer ring	2	Old Type	●							
15	<b>119.172</b>	1296 333 045	000 263 0534	Synchronizer ring	2	New Type	●							
16	<b>157.183</b>	1297 333 115	000 263 0935	Synchronizer Hub	1		●							
17	<b>160.116</b>	1240 304 278	336 264 0239	Pressure piece	9		●							
18	<b>156.036</b>	0732 040 386	336 264 0793	Inner Spring De.3x34	9		●							
19	<b>156.037</b>	0732 040 385	336 264 0693	Outer Spring De.6x34	9		●							
20	<b>154.098</b>	1296 333 023	000 263 0523	Sliding Sleeve	1		●							
21	<b>198.790</b>	1297 233 056	000 263 2220	Synchronizer Cone (41 spl.)	1		●							
22		1312 333 014		Synchronizer Cone	1	With Retarder	●							
23	130.245	0750 116 002	000 981 2920	Bearing D.90x160x30	1		●							
24	128.098	1315 301 220	000 261 1732	Cover	1		●							
25		0750 111 341	021 997 6447	Oil Seal 105x130x12	1		●							
26		1297 333 110		Output Flange	1	D.180-4 H	●							
27		1312 332 028		Stop Washer	1		●							
28	<b>141.163</b>	1297 306 120	000 268 1149	Slide	2		●							
29		1312 206 025		Fork	1		●							
29		1312 206 026		Fork	1		●							
29		1312 206 045		Fork	1	(4)	●							
30		1312 206 013		Fork	1		●							
30		1312 206 017		Fork	1		●							
30		1312 206 043		Fork	1	(4)	●							
31		1312 206 027		Fork	1		●							
31		1312 206 028		Fork	1		●							

## Notes

- (4) Only Pneumatic Version  
 (5) To be coupled Together  
 (6) To be coupled Together

## Date

03 / 2006

## Table

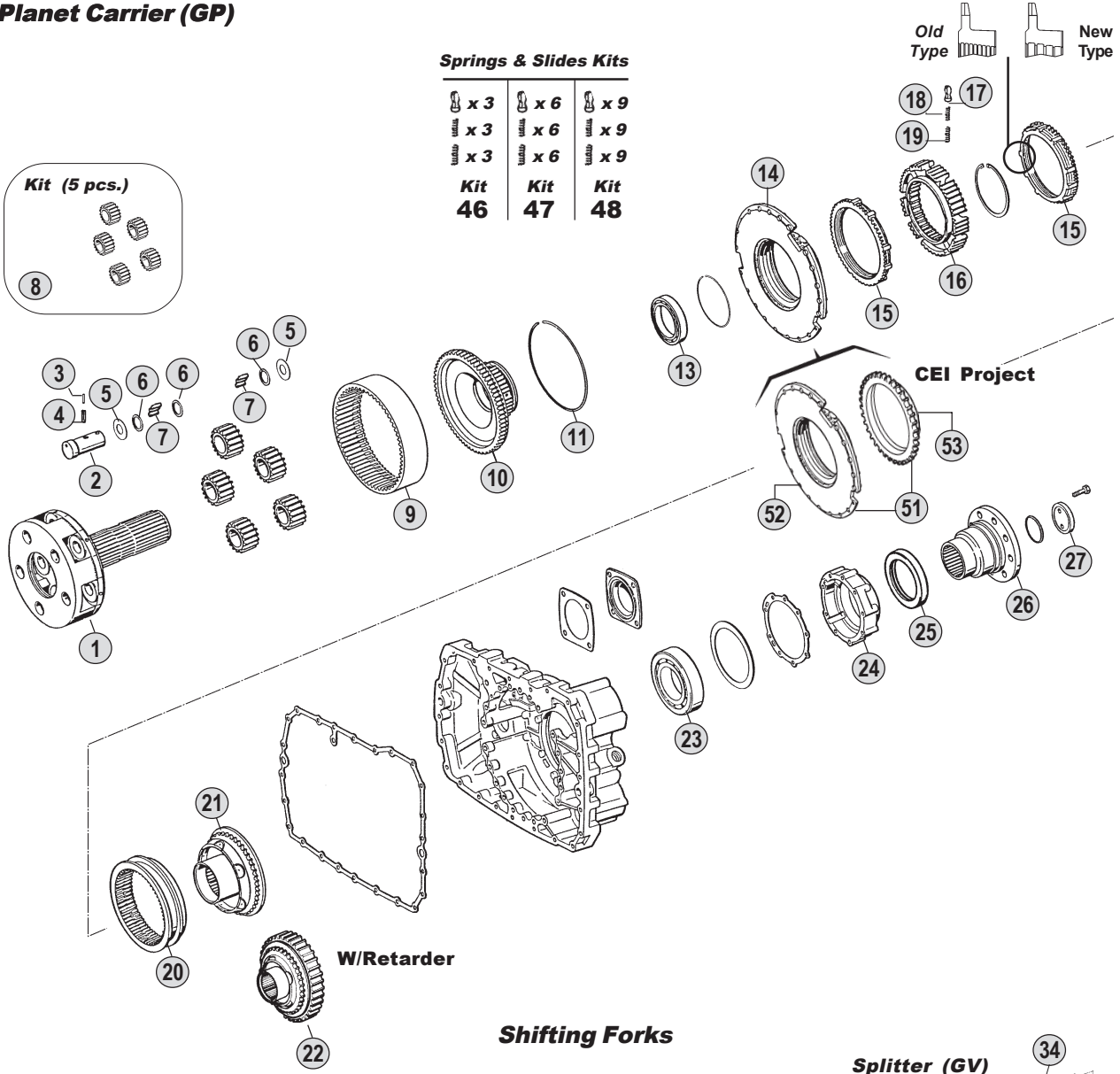
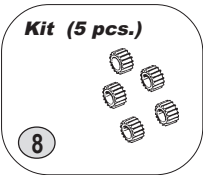
003 / B

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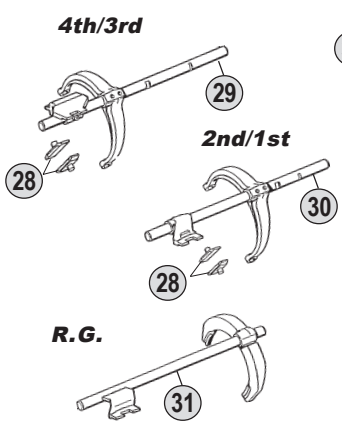
**Planet Carrier (GP)**

**Springs & Slides Kits**

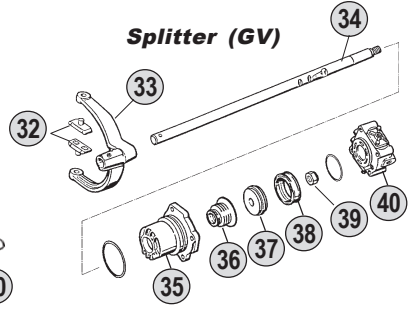
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>



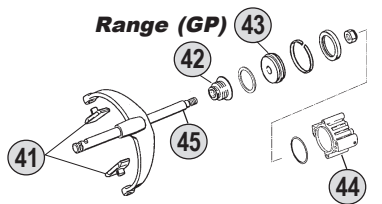
**Shifting Forks**



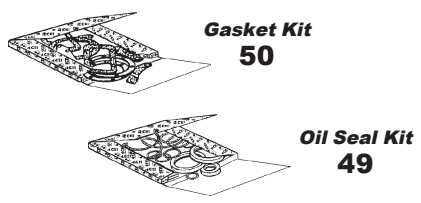
**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

**16S220** A : 10,14-0,72 B : 13,80 - 0,84 C : 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	16S220 (1312)			
		ZF no.	MB no.								
31		1312 206 033		Fork	1	(4)	●				
32	141.163	1297 306 120	000 268 1149	Slide	2		●				
33		1313 312 002	000 265 3701	Fork	1		●				
34		1312 312 001		Rod	1		●				
35	132.046	1296 312 042	000 267 0519	Cylinder	1		●				
36	139.331	0750 112 034	000 267 0697	Cap Collar D.25x38x14,2	1		●				
37		1312 312 003		Piston	1		●				
37		1312 312 015		Piston	1	(4)	●				
38		0750 112 089	000 267 0997	Ring 53x63x16,2	1		●				
38		0750 112 048	021 997 2247	Ring 53x63x5	1	(4)	●				
39		0737 006 095	000 990 9658	Nut	1		●				
40		0750 132 032		Cylinder	1		●				
40		0750 132 033	001 260 3057	Cylinder	1		●				
41	141.085	1296 334 004	000 265 0649	Bronze Slide	2		●				
42	139.331	0750 112 034	000 267 0697	Cap Collar D.25x38x14,2	1		●				
43	189.422	1296 334 039	000 267 0818	Piston	1	(5)	●				
43		1297 334 056	000 267 1518	Piston	1	(6)	●				
44	132.047	1295 334 075	000 267 2119	Cylinder	1	(5)	●				
44		1297 334 055		Cylinder	1	(6)	●				
45	149.171	1312 234 002	002 265 0205	Fork Lever	1		●				
45		1312 234 004		Fork	1	(4)	●				
46	198.339	1268 298 938		Spring Slide Set	1		●				
47	198.564	CEI 198564		Spring Slide Set	1		●				
48	198.842	1295 298 933		Spring Slide Set	1		●				
49		1312 298 902		Oil Seal Kit	1		●				
50	198.427	1295 298 915		Gasket Kit	1		●				
51	198.856	CEI 198856		Synchronizer cone kit	1	Can repl. fig. 14	●				
52	135.128	CEI 135128		Saddle Plate	1	Use with fig. 53	●				
53	109.174	1296 333 050		Synchronizer Cone	1	Use with fig. 52	●				

## Notes

- (4) Only Pneumatic Version  
 (5) To be coupled Together  
 (6) To be coupled Together

## Date

03 / 2006

## Table

003 / B

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Suitable to: **M.a.n.**

# Gearboxes Index

## EcoSplit I

**16K130**  
**16K160**

**16S130**  
**16S160**  
**16S190**

## EcoSplit II

**16S150**  
**16S220**

## EcoSplit III

**16S151**  
**16S181**  
**16S221**  
**16S251**

**M.A.N.-  
INDEX**





suitable to :

**Z.F.****EcoSplit I****From 16K130 to 16K190****Application**

	16K130	16K160	16K190
	(1295)	(1297)	(1297)
<b>MERCEDES</b>			
<b>M.A.N.</b>			
<b>IVECO</b>			
<b>R.V.I.</b>			
<b>DAF</b>			
<b>VOLVO</b>			

**Ratios**

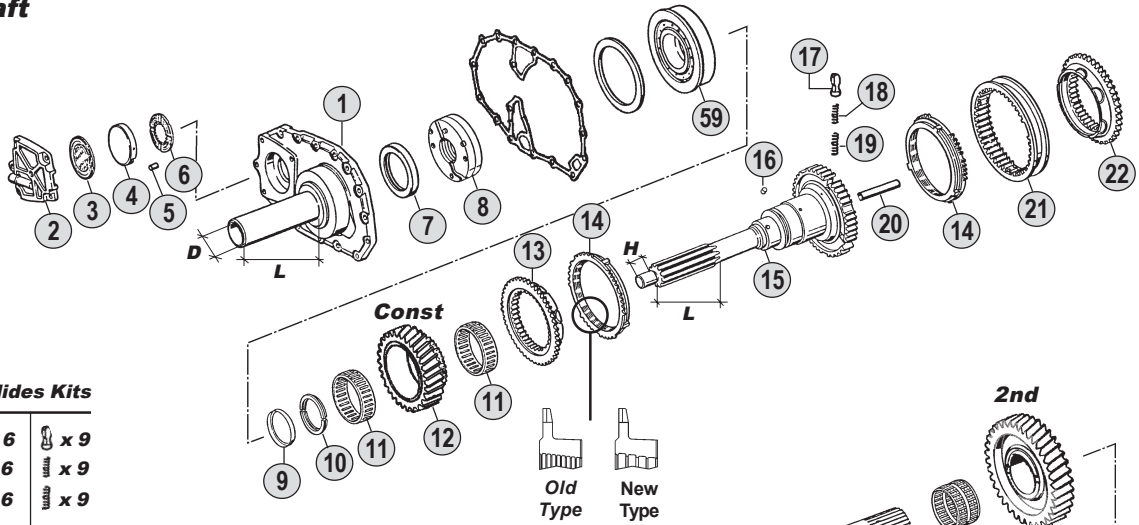
	R.11,46-0,85	R.13,68-1,00	R.14,29-0,82
	A	B	C
<b>16K130</b>			
<b>16K160</b>			
<b>16K190</b>			

**ECO I**From 16K130  
To 16K190

Suitable To : **ZF**

**16K130 - 16K160**

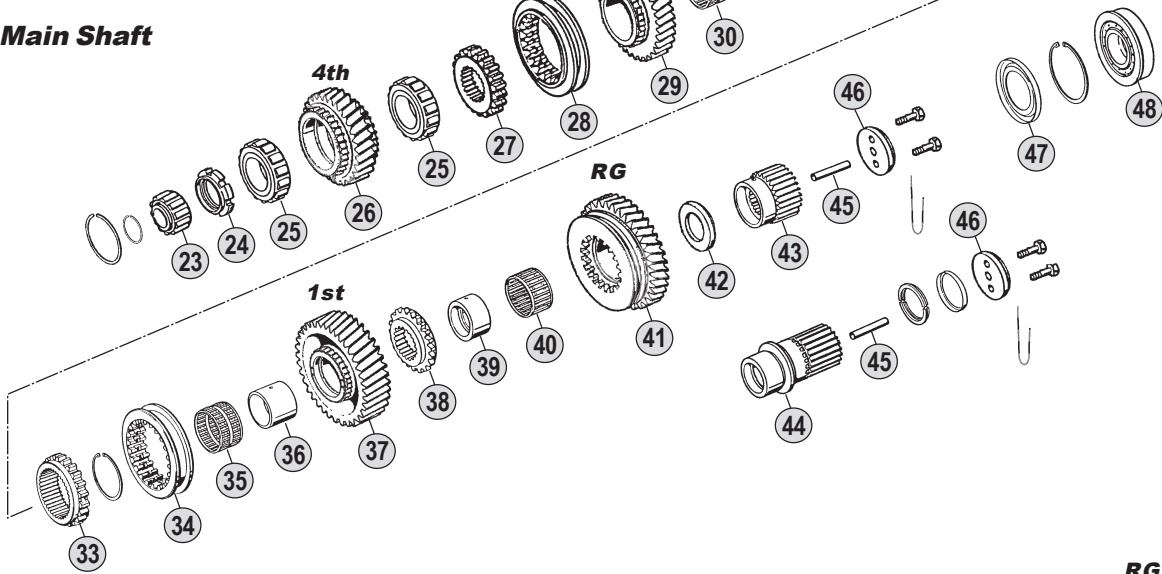
**Input Shaft**



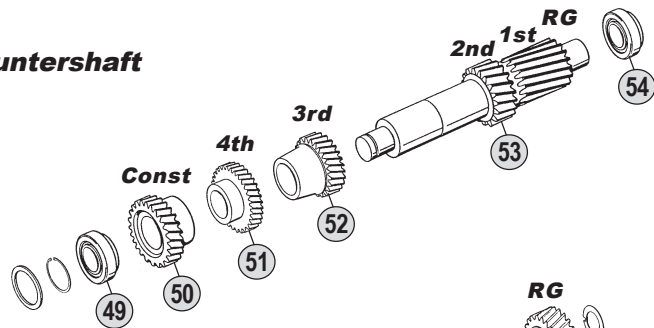
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 60</b>	<b>Kit 61</b>	<b>Kit 62</b>

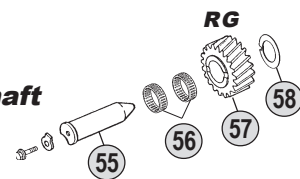
**Main Shaft**



**Countershaft**



**Reverse Shaft**



**Ratios**

<b>16K130</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K160</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --

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16K130 (1295)  
16K160 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	M.A.N. no.					16K130 (1295)	16K160 (1297)			
1		1297 302 019	81 32508 0063	Front Cover	1	L=470 D=57	●	●				
1		1297 302 238	81 32522 0035	Front Cover	1	L=147 D=60	●	●				
2		1295 303 031	81 32508 0064	Cover	1		●	●				
3		0750 190 012	81 32565 0001	Disk	1		●	●				
4		1268 303 062	81 32639 0010	Piston	1		●	●				
5		0731 302 032	81 32523 0100	Pin	1		●	●				
6		1268 203 059	81 32564 0007	Washer	1		●	●				
7		0750 111 002	81 96502 0225	Oil Seal 48x75x8	1		●					
7		0634 310 733		Oil Seal 90x110x13	1	(1)	●					
7		0734 310 386	81 96503 0342	Oil Seal 55x75x8	1			●				
7		0750 111 002	81 96502 0225	Oil Seal 48x75x8	1	(3)		●				
8	<b>280.348</b>	1295 202 041	81 32563 0005	Oil Pump	1		●	●				
9	169.754	0730 061 816	81 90820 0141	Securing Ring	1		●	●				
9	169.755	0730 062 579	81 90820 0370	Securing Ring	1	S.4,20 mm	●	●				
10		0730 103 244	81 32521 0062	Split Ring T.4,30 mm	1	S.4,30 mm (4)	●	●				
10		0730 103 935	81 32521 0107	Split Ring T.3,80 mm	1	S.3,80 mm (4)	●	●				
10		0730 105 156	81 32521 0122	Split Ring T.4,00 mm	1	S.4,00 mm (5)	●	●				
10		0730 105 154		Split Ring T.3,80 mm	1	S.3,80 mm (5)	●	●				
11	137.082	0735 320 786	81 93402 0067	Needle Cage D.88x96x24,50	2		●					
11	137.153	0735 320 896	81 93402 0102	Needle Cage D.88x96x29	2			●				
12	145.489	1295 302 070	81 32301 0428	Constant Gear 30 T	1			●				
12	<b>145.276</b>	1295 302 071	81 32301 0585	Constant Gear 28 T	1			●				
12	145.541	1295 302 122	81 32301 0599	Constant Gear 29 T	1			●				
12	<b>145.466</b>	1297 302 177	82 32301 0070	Constant Gear 30 T	1			●				
12	<b>145.406</b>	1297 302 176	81 32301 0563	Constant Gear 28 T	1			●				
12	<b>145.405</b>	1297 302 250	81 32301 0589	Constant Gear 29 T	1			●				
13	<b>109.072</b>	1295 304 278	81 32425 0071	Synchronizer Cone	1		●	●				
14	<b>119.084</b>	1295 304 004	81 32420 0081	Synchronizer Ring	2	Old Type	●	●				
14	<b>119.175</b>	1304 304 686		Synchronizer Ring	2	New Type	●	●				
15	102.232	1295 202 007	81 32205 0147	Input Shaft	1	L=115H=25	●					
15	102.254	1295 202 039	81 32205 0175	Input Shaft	1		●					
15		1295 221 001	81 32205 0173	Input Shaft	1	NMV130 (Clutch PTO)	●					
15	102.247	1297 202 008	81 32205 0149	Input Shaft	1	L=15H=25		●				
15	102.235	1297 202 011	81 32205 0176	Input Shaft	1	L=115H=32		●				
15		1297 202 045	81 32205 0212	Input Shaft	1			●				
16		0635 470 012	06 32540 0118	Pin	1		●	●				
17	<b>160.116</b>	1240 304 278	81 32510 0005	Pressure piece	3		●	●				
18	<b>156.036</b>	0732 040 386	81 97601 0758	Inner Spring De.3x34	3		●	●				
19	<b>156.037</b>	0732 040 385	81 97601 0757	Outer Spring De.6x34	3		●	●				
20	188.208	0730 062 323		Oil Tube	1		●	●				
21	<b>154.097</b>	1295 304 002	81 32402 0101	Sliding Sleeve	1		●	●				
22	<b>109.072</b>	1295 304 278	81 32425 0071	Synchronizer Cone	1		●	●				
23	137.081	0750 118 010	81 93404 0028	Roller Cage D.30x60x25,50	1		●					
23	137.113	0750 118 038	81 93420 0174	Roller Cage D.35x68x27,50	1			●				
24	187.588	3081 303 063	81 90620 0074	Grooved Nut M50x1.5	1		●					

## Notes

- (1) Only for input Shaft 1295 221 001 (3) Only for input Shaft 1297 202 008  
 (4) To be coupled together with Fig. 9 - 0730 061 816  
 (5) To be coupled together with Fig. 9 - 0730 062 579  
 (6) Old Type having straight teeth. Use items marked (6) together.  
 (7) Only for models having MNV130 ( clutch PTO)

## Date

03 / 2006

## Table

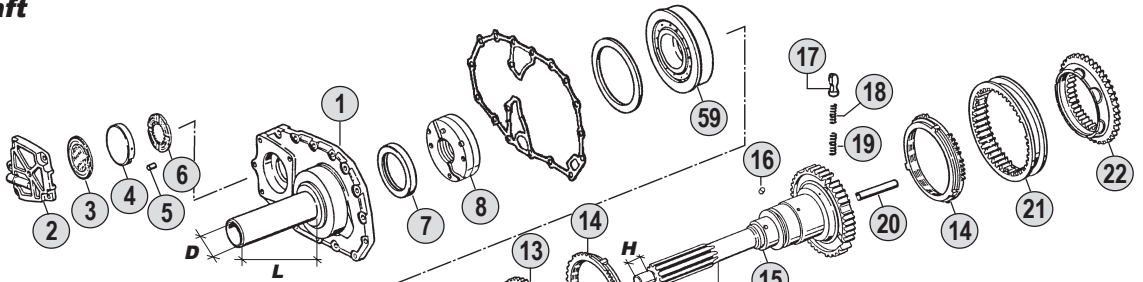
004 / A

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Suitable To : **ZF**

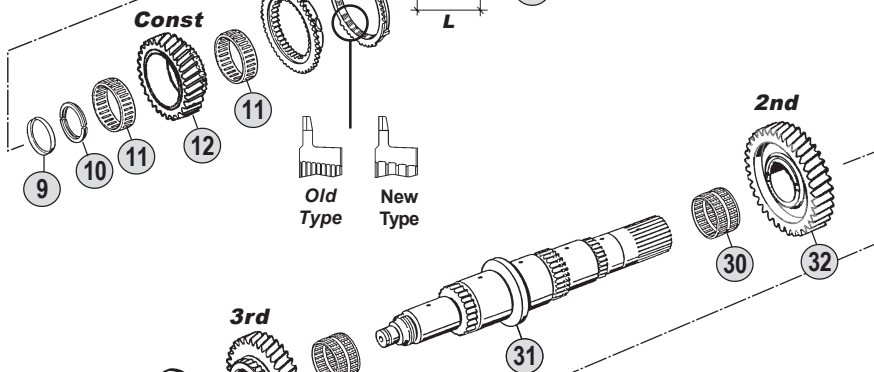
**16K130 - 16K160**

**Input Shaft**

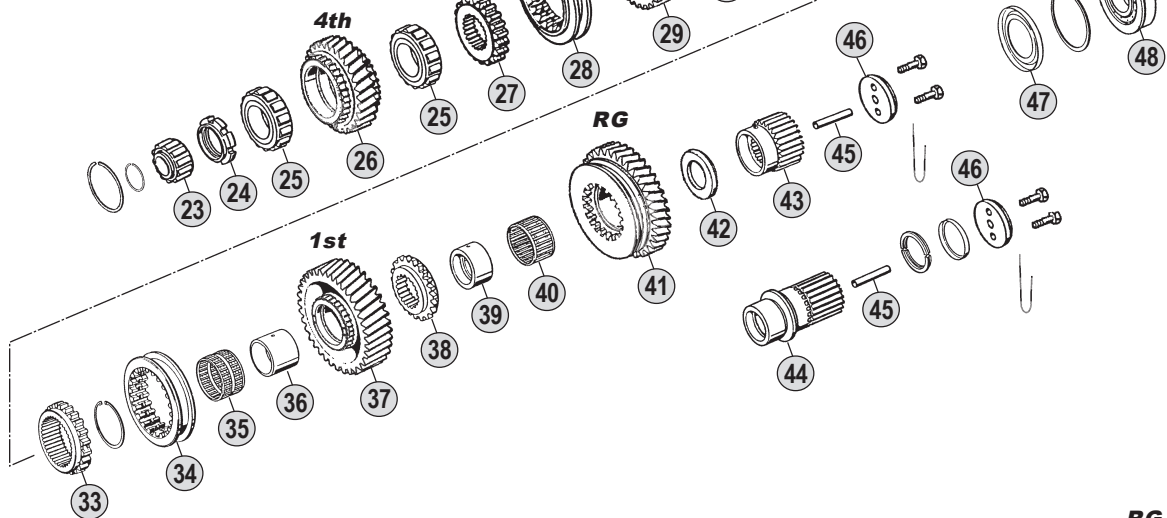


**Springs & Slides Kits**

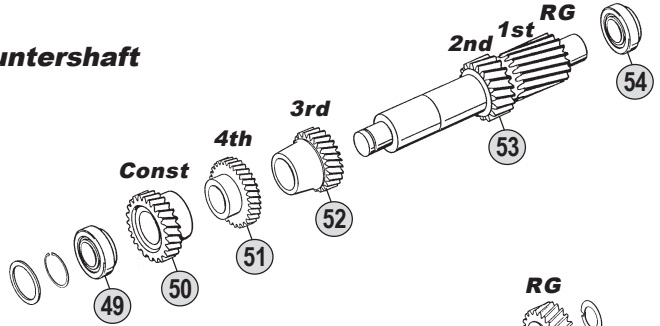
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 60</b>	<b>Kit 61</b>	<b>Kit 62</b>



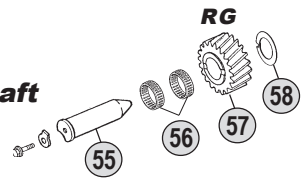
**Main Shaft**



**Countershaft**



**Reverse Shaft**



**Ratios**

<b>16K130</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K160</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --

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16K130 (1295)  
16K160 (1297)

ECO I

From 16K130  
To 16K160

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	M.A.N. no.					16K130 (1295)	16K160 (1297)			
24	187.412	0737 502 092	81 90620 0073	Grooved Nut M60x1,5	1			●				
25		0750 118 017	81 93420 0135	Bearing D.55x90x33	2			●				
25	137.083	0750 118 005	81 93420 0133	Roller Cage D.63x97,5x34,80	2			●				
26	146.464	1295 304 181	81 32301 0445	Gear 4th Speed 28 T	1		A	●				
26	146.465	1295 304 182		Gear 4th Speed 30 T	1		B	●				
26	146.466	1295 304 303	81 32301 0602	Gear 4th Speed 26 T	1		C	●				
26	145.529	1297 304 128	81 32301 0465	Gear 4th Speed 28 T	1		A	●				
26	<b>145.420</b>	1297 304 127	81 32301 0568	Gear 4th Speed 30 T	1		B	●				
26	145.530	1297 304 258	81 32301 0592	Gear 4th Speed 29 T	1		C	●				
27	157.208	1295 304 234	81 32403 0061	Fixed Hub 3rd-4th Speed	1			●				
27	<b>157.195</b>	1297 304 188	81 32403 0058	Fixed Hub 4th-5th Speed	1			●				
28	154.211	1295 304 179	81 32402 0104	Sliding Sleeve 3rd-4th Speed	1			●				
28	<b>154.189</b>	1297 304 120	81 32402 0106	Sliding Sleeve	1			●				
29	145.551	1295 304 188	81 32301 0442	Gear 3rd Speed 32 T	1		AC	●				
29	145.552	1295 304 187		Gear 3rd Speed 34 T	1		B	●				
29	145.531	1297 304 116	81 32301 0464	Gear 3rd Speed 32 T	1		AC	●				
29	<b>145.468</b>	1297 304 115		Gear 3rd Speed 34 T	1		B	●				
30	137.158	0735 320 460	81 93402 0072	Needle Cage D.82x90x46	2			●				
30	137.084	0735 320 418	81 93402 0068	Needle Cage D.82x90x49	2			●				
31	103.141	1295 304 243	81 32202 0040	Main Shaft	1		AB	●				
31	103.142	1295 304 304	81 32202 0050	Main Shaft	1		C	●				
31	103.134	1297 304 179		Main Shaft	1		AB	●				
31	103.139	1297 304 264	81 32202 0049	Main Shaft	1		C	●				
32	145.547	1295 304 185	81 32301 0440	Gear 2nd Speed 37 T	1		AC	●				
32	145.546	1295 304 184		Gear 2nd Speed 38 T	1		B	●				
32	145.532	1297 304 113	81 32301 0461	Gear 2nd Speed 37 T	1		AC	●				
32	<b>145.467</b>	1297 304 112		Gear 2nd Speed 38 T	1		B	●				
33	<b>157.197</b>	1295 304 235	81 32403 0055	Fixed Hub 1st-2nd Speed	1			●	●			
34	154.212	1295 304 178	81 32402 0103	Sliding Sleeve 1st-2nd Speed	1			●				
34	<b>154.188</b>	1297 304 119	81 32402 0105	Sliding Sleeve	1			●				
35		0735 320 461	81 93402 0087	Needle Cage D.72x80x46	1			●				
35	137.161	0735 320 568	81 93402 0073	Needle Cage D.82x90x53	1			●				
36	117.317	1297 304 055	81 32220 0058	Bush	1			●				
37	145.548	1295 304 204	81 32301 0493	Gear 1st Speed 44 T	1		AC	●				
37	145.549	1295 304 194	81 32301 0441	Gear 1st Speed 44 T	1	(6)	A	●				
37	145.550	1295 304 205		Gear 1st Speed 47 T	1		B	●				
37	145.534	1297 304 151	81 32301 0498	Gear 1st Speed 44 T	1		AC	●				
37	<b>145.469</b>	1297 304 150		Gear 1st Speed 47 T	1		B	●				
38	109.075	1295 304 206	81 32425 0072	Engaging Ring	1			●				
38	109.184	1295 304 024	81 32425 0063	Engaging Ring	1	(6)		●				
38	109.178	1297 304 154	81 32425 0075	Engaging Ring	1			●				
39	117.203	1295 304 012	81 32220 0056	Bush D.60x75x38	1		AB	●				
39	117.318	1297 304 034	81 32220 0059	Bush	1		AB	●				
40	137.086	0750 115 059	81 93402 0088	Needle Cage D.75x83x40	1			●				
40	137.111	0735 320 486	81 93402 0074	Needle Cage D.78x86x44	1			●				

Notes

- (1) Only for input Shaft 1295 221 001 (3) Only for input Shaft 1297 202 008  
 (4) To be coupled together with Fig. 9 - 0730 061 816  
 (5) To be coupled together with Fig. 9 - 0730 062 579  
 (6) Old Type having straight teeth. Use items marked (6) together.  
 (7) Only for models having MNV130 ( clutch PTO)

Date

03 / 2006

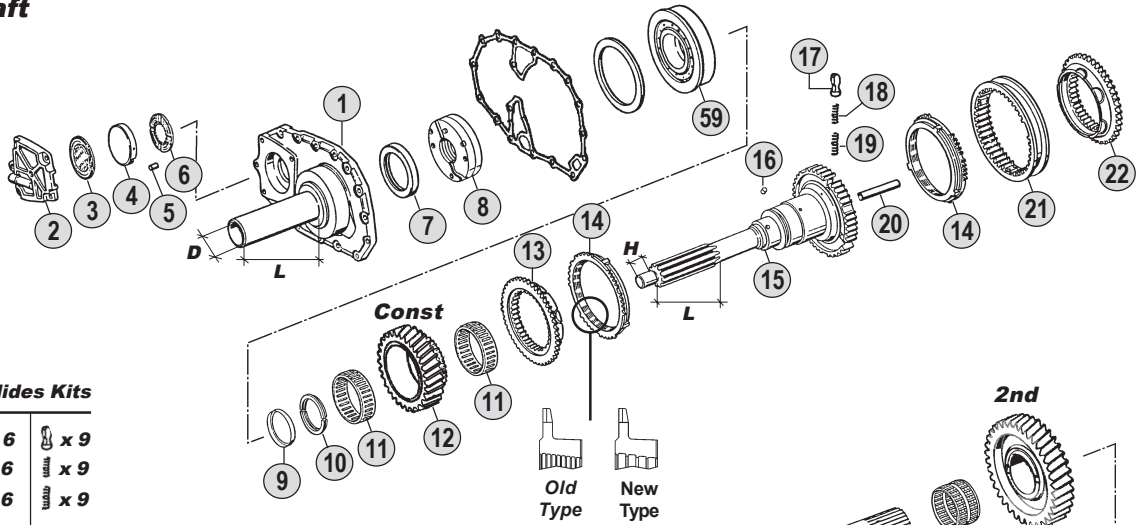
Table

004 / A

Suitable To : **ZF**

**16K130 - 16K160**

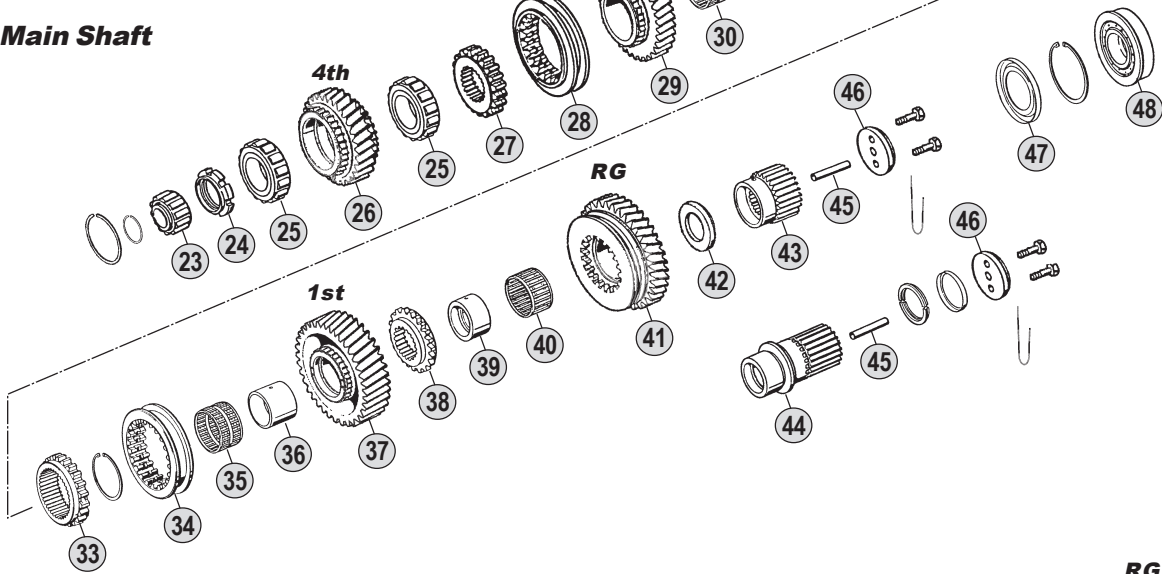
**Input Shaft**



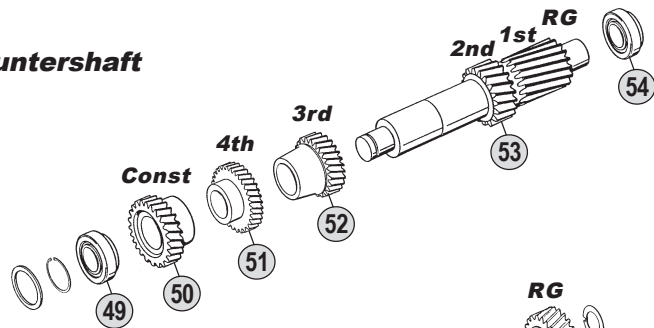
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 60</b>	<b>Kit 61</b>	<b>Kit 62</b>

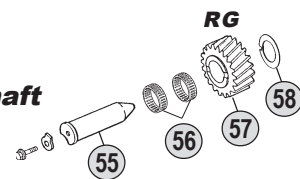
**Main Shaft**



**Countershaft**



**Reverse Shaft**



**Ratios**

<b>16K130</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K160</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --

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16K130 (1295)  
16K160 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	M.A.N. no.					16K130 (1295)	16K160 (1297)					
41	147.138	1295 304 201	81 32301 0494	Reverse Gear 39 T	1		AC	●						
41	147.152	1295 304 115	81 32301 0438	Reverse gear 39 T	1	(6)	A	●						
41	147.093	1295 304 200	81 32301 0778	Reverse Gear 38 T	1		B	●						
41	147.109	1297 304 149	81 32301 0499	Reverse Gear 39 T	1		AC	●						
41	147.140	1297 304 148		Reverse Gear 38 T	1		B	●						
42		1295 304 241	81 32312 0746	Thrust Washer	1		AB	●						
42		1295 304 176	81 32312 0667	Thrust Washer	1	(6)	A	●						
42	169.758	1297 304 177		Thrust Washer	1		AB	●						
43	157.211	1295 304 247	81 32301 0495	Sun Gear 27 T	1		AB	●						
43	157.177	1297 304 187	81 32301 0466	Sun Gear 27 T	1		AB	●						
44	157.207	1295 304 251	81 32301 0603	Sun Gear 24 T	1		C	●						
44	157.206	1297 304 265	81 32301 0593	Sun Gear 24 T	1		C	●						
45		0730 061 842	81 32562 0008	Oil Tube	1			●	●					
46	188.076	1272 304 021	81 32312 0710	Stop Washer	1			●	●					
47		1295 304 129	81 32147 0008	Oil Collector	1		AB	●	●					
47		1297 301 004	81 32312 0854	Oil Collector	1		C	●	●					
48	130.240	0750 118 153	81 93420 0129	Bearing D.60x130x31	1		AB	●	●					
48		0750 118 137	81 93420 0177	Bearing D.80x140x26	1		C	●	●					
49	130.242	0750 117 010	81 93420 0132	Bearing D.50,80x100x35	1			●	●					
50	146.354	1295 303 036	81 32301 0430	Constant Gear 31 T	1		A	●						
50	146.210	1295 303 101	81 32301 0696	Constant Gear 34 T	1		B	●						
50	146.457	1295 303 060	81 32301 0600	Constant Gear 32 T	1		C	●						
50	146.383	1297 303 074	81 32301 0460	Constant Gear 31 T	1		A		●					
50	146.322	1297 303 066	81 32301 0565	Constant Gear 34 T	1		B		●					
50	146.319	1297 303 098	81 32301 0590	Constant Gear 32 T	1		C		●					
51	146.413	1295 303 028	81 32301 0431	Gear 4th Speed 34 T	1		A	●						
51	146.209	1295 303 027	81 32301 0737	Gear 4th Speed 31 T	1		B	●						
51	146.461	1295 303 094	81 32301 0598	Gear 4th Speed 35 T	1		C	●						
51	146.382	1297 303 072	82 32301 0072	Gear 4th Speed 34 T	1		A		●					
51	146.381	1297 303 065	81 32301 0564	Gear 4th Speed 31 T	1		B		●					
51	146.447	1297 303 114	82 32301 0053	Gear 4th Speed 39 T	1		C		●					
52	146.467	1295 303 005	81 32301 0439	Gear 3rd Speed 28 T	1		AC	●						
52	146.468	1295 303 006		Gear 3rd Speed 25 T	1		B	●						
52	146.446	1297 303 081	81 32301 0458	Gear 3rd Speed 28 T	1		AC		●					
52	146.380	1297 303 077	81 32301 0572	Gear 3rd Speed 25 T	1		B		●					
53	105.120	1295 303 056	81 32206 0051	Countershaft 19-23 T	1		AC	●						
53	105.121	1295 303 042	81 32206 0049	Countershaft 19-23 T	1	(6)	A	●						
53		1295 303 089		Countershaft 19-23 T	1	(7)	AC	●						
53	105.122	1295 303 055		Countershaft 17-20 T	1		B	●						
53	105.116	1297 303 048	81 32206 0053	Countershaft 19-23 T	1		AC		●					
53		1297 303 070		Countershaft 19-23 T	1	(7)	AC		●					
53	105.091	1297 303 047	81 32206 0057	Countershaft 17-20 T	1		B		●					
54	130.307	0750 117 011	81 93420 0134	Bearing D.50,8x104,7x39,6	1			●						
54	130.243	0750 117 008	81 93420 0131	Bearing D.50x110x42	1				●					
55	107.108	1295 305 056	81 32317 0032	Reverse Gear Pin	1			●	●					

## Notes

- (1) Only for input Shaft 1295 221 001 (3) Only for input Shaft 1297 202 008  
 (4) To be coupled together with Fig. 9 - 0730 061 816  
 (5) To be coupled together with Fig. 9 - 0730 062 579  
 (6) Old Type having straight teeth. Use items marked (6) together.  
 (7) Only for models having MNV130 ( clutch PTO)

## Date

03 / 2006

## Table

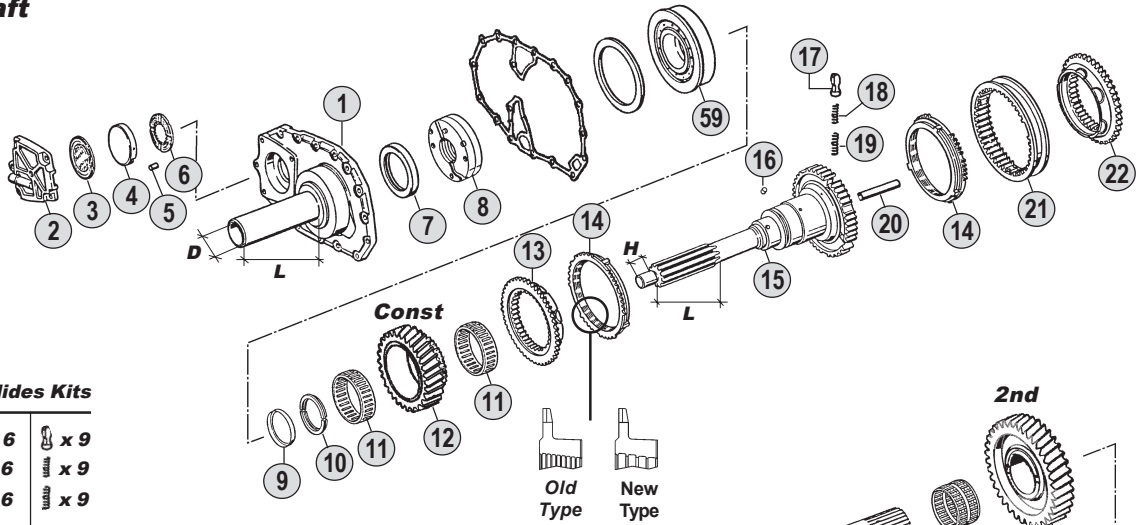
004 / A

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Suitable To : **ZF**

**16K130 - 16K160**

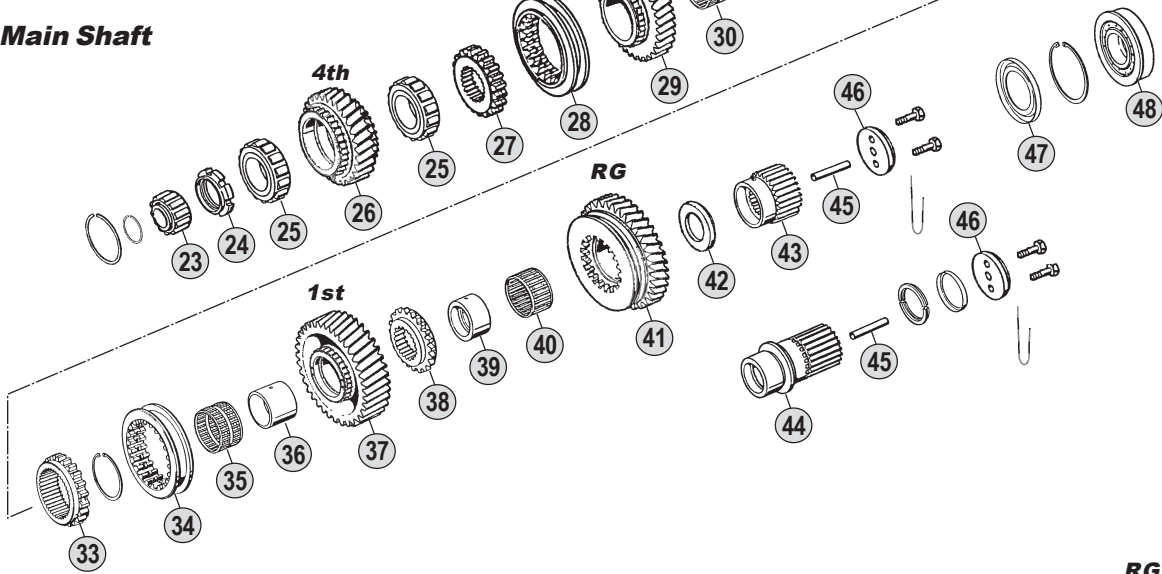
**Input Shaft**



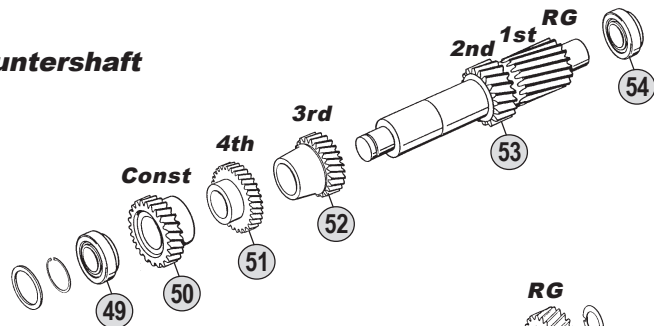
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 60</b>	<b>Kit 61</b>	<b>Kit 62</b>

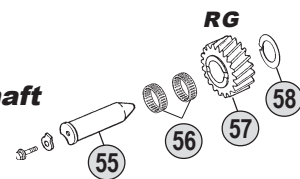
**Main Shaft**



**Countershaft**



**Reverse Shaft**



**Ratios**

<b>16K130</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K160</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio									
		ZF no.	M.A.N. no.					16K130 (1295)	16K160 (1297)							
56	137.007	0750 115 011	81 93402 0066	Needle Cage D.45x53x21	2			●	●							
57	147.133	1295 305 051	81 32315 0034	Reverse Gear 21 T	1		AC	●	●							
57	147.153	1297 305 003	81 32315 0031	Reverse Gear 21 T	1	(6)	A	●								
57	147.094	1295 305 052	81 32315 0038	Reverse Gear 24 T	1		B	●	●							
58	169.234	0730 150 064	81 32312 0153	Thrust Washer	1			●	●							
59	130.305	0750 118 131	81 93420 0190	Bearing D.80x150x27,50	1			●	●							
60	198.339	1268 298 938		Spring Slide Set	1			●	●							
61	198.564	CEI 198564		Spring Slide Set	1			●	●							
62	198.842	1295 298 933		Spring Slide Set	1			●	●							

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**Notes**

- (1) Only for input Shaft 1295 221 001 (3) Only for input Shaft 1297 202 008  
(4) To be coupled together with Fig. 9 - 0730 061 816  
(5) To be coupled together with Fig. 9 - 0730 062 579  
(6) Old Type having straight teeth. Use items marked (6) together.  
(7) Only for models having MNV130 ( clutch PTO)

**Date**

03 / 2006

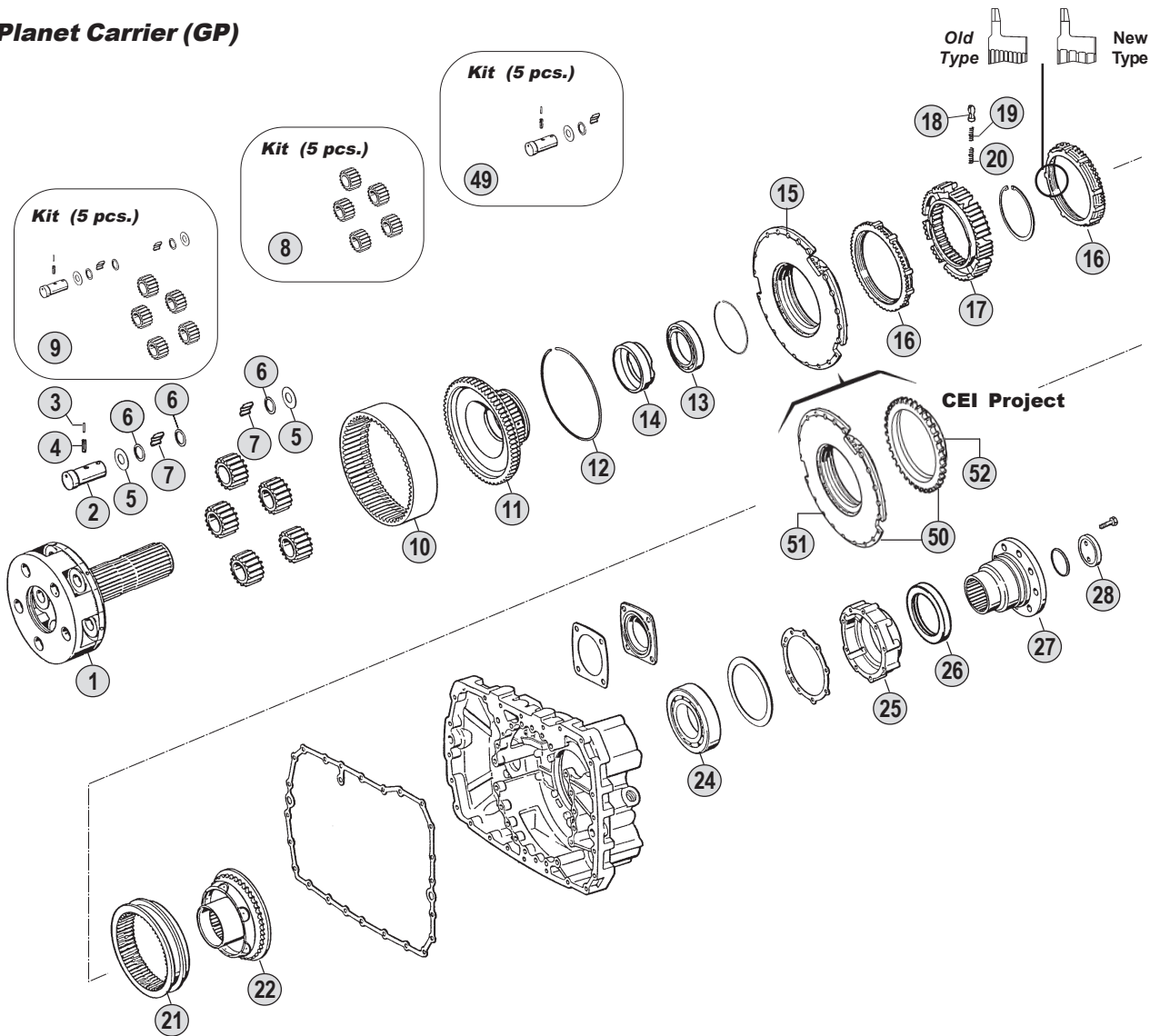
**Table**

004 / A

Suitable To : **ZF**

**16K130 - 16K160**

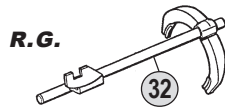
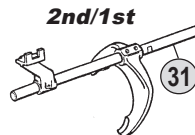
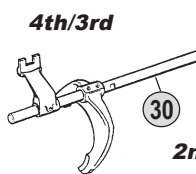
**Planet Carrier (GP)**



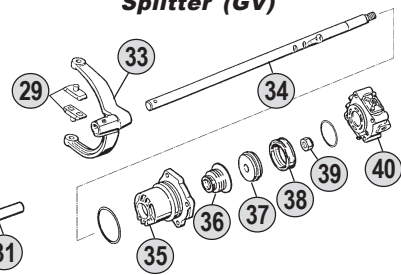
**Shifting Forks**

**Springs & Slide Kits**

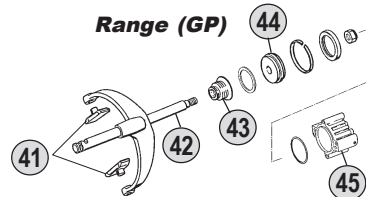
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16K130</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K160</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --

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16K130 (1295)  
16K160 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	M.A.N. no.					16K130 (1295)	16K160 (1297)				
1	190.169	1295 232 044	81 32403 0078	Planetary Carrier	1		AB	●					
1		1295 232 045	81 32403 0088	Planetary Carrier	1		C	●					
1	190.396	1297 232 039	81 32403 0066	Planetary Carrier	1		AB		●				
1	190.395	1297 232 045	81 32403 0079	Planetary Carrier	1		C		●				
2	<b>107.089</b>	1269 332 036	81 32523 0086	Planet Shaft	5			●					
2	107.163	1297 332 109	81 32523 0111	Planet Shaft	5				●				
3	160.191	0631 329 017	06 22120 0512	Lock Pin D.3x24	5			●	●				
4	160.192	0631 329 050	06 22120 0912	Lock Pin D.5x24	5			●	●				
5	169.408	0501 305 887	81 90712 0494	Thrust Washer D.29x57,50x1,50	10			●					
5	169.753	0501 306 212	81 32312 0707	Thrust Washer D.29x64x1,5	10				●				
6	<b>169.410</b>	0730 103 846	81 90712 0495	Spacer Ring D.29x39x1,00	15			●	●				
7	<b>171.016</b>	0735 470 057	81 93403 0010	Roller Set D.6x14,75 (180 pcs)	180			●					
7	171.045	0750 119 109	81 32528 0014	Roller Set D.10x16,80 (120 pcs)	120				●				
8	<b>198.357</b>	1295 232 027	81 32301 6002	Planetary Gear Set (5 pcs)	1		AB	●					
8	198.437	1295 232 038	81 32301 6008	Planetary Gear Set (5 pcs)	1		C	●					
8	198.803	1297 232 023	81 32301 6003	Planetary Gear Set (5 pcs)	1		AB		●				
8	198.810	1297 232 024	81 32301 6007	Planetary Gear Set (5 pcs)	1		C		●				
9	198.562	1296 298 904		Planetary Gear Set	1		AB	●					
9	<b>198.704</b>	1297 298 912		Planetary Gear Set	1		AB		●				
9		1297 298 919		Planetary Gear Set	1		C		●				
10	123.162	1295 332 053	81 32301 0444	Crown Gear 83 T	1		AB	●					
10	123.208	1295 332 086	81 32301 0604	Crown Gear 86 T	1		C	●					
10	123.217	1297 332 080	81 32301 0691	Crown Gear 83 T	1		AB		●				
10	123.208	1295 332 086	81 32301 0604	Crown Gear 86 T	1		C		●				
11	150.112	1295 332 021	81 32403 0052	Flange Gear 83 T	1		AB	●					
11	150.142	1295 332 084	81 32403 0073	Flange Gear 86 T	1		C	●					
11	150.138	1297 332 017	81 32403 0057	Flange Gear 83 T	1		AB		●				
11	150.137	1297 332 035	81 32403 0070	Flange Gear 86 T	1		C		●				
12	111.129	0730 505 055	81 90820 0284	Locking Wire	1		AB	●	●				
12	111.198	0730 505 056	81 90820 0371	Locking Wire	1		C	●	●				
13	130.244	0750 116 166	06 31429 0075	Bearing D.75x105x16	1			●					
13	130.310	0750 116 165	81 93410 0083	Bearing D.80x110x16	1				●				
14		1297 332 002	81 32312 0708	Ring	1				●				
15	<b>198.358</b>	1296 233 006	81 32425 0073	Synchronizer Cone	1			●	●				
16	<b>119.085</b>	1296 333 022	81 32420 0096	Synchronizer ring	2	Old Type		●	●				
16	<b>119.172</b>	1296 333 045	81 32420 0236	Synchronizer ring	2	New Type		●	●				
17	<b>157.113</b>	1296 333 002	81 32420 0095	Synchronizer Hub	1			●	●				
18	<b>160.116</b>	1240 304 278	81 32510 0005	Pressure piece	9			●	●				
19	<b>156.036</b>	0732 040 386	81 97601 0758	Inner Spring De.3x34	9			●	●				
20	<b>156.037</b>	0732 040 385	81 97601 0757	Outer Spring De.6x34	9			●	●				
21	<b>154.098</b>	1296 333 023	81 32402 0111	Sliding Sleeve	1			●	●				
22	<b>198.359</b>	1295 233 025	81 32425 0074	Synchronizer Cone (36 Spl.)	1			●					
22	<b>198.374</b>	1313 233 001	81 32425 0083	Synchronizer Cone (38 Spl.)	1				●				
24	130.245	0750 116 002	81 93410 0046	Bearing D.90x160x30	1			●	●				
25		1296 301 067	81 32106 0072	Cover	1			●	●				

Notes

Date

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Table

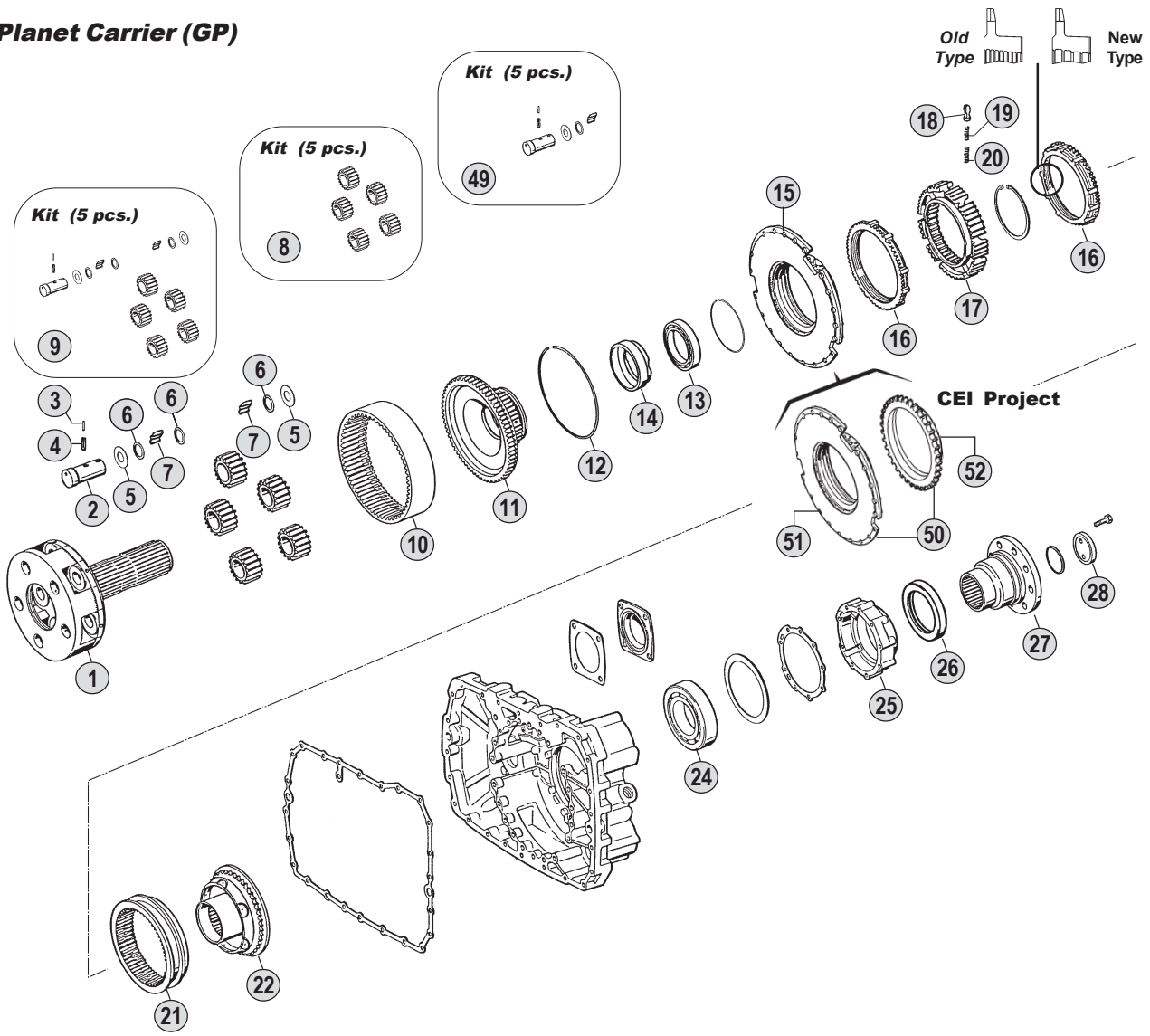
004 / B

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Suitable To : **ZF**

**16K130 - 16K160**

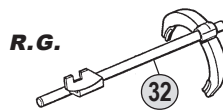
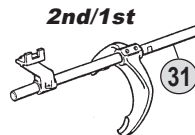
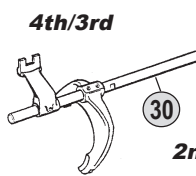
**Planet Carrier (GP)**



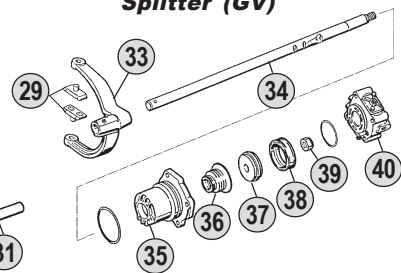
**Shifting Forks**

**Springs & Slide Kits**

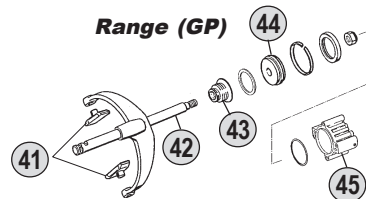
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16K130</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --
<b>16K160</b>	A: 11,46 - 0,85	B: 13,68 - 1,00	C: 14,29 - 0,82	D: --	E: --

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	M.A.N. no.					16K130 (1295)	16K160 (1297)				
25	128.098	1315 301 220	81 32106 0152	Cover	1			●					
26		0750 111 341	81 96503 0236	Oil Seal 105x130x12	1			●	●				
27		1295 338 061	81 39115 0215	Output Flange	1	D.180- 4 Holes		●					
27	197.051	1295 338 014	81 39115 0171	Output Flange	1	D.180-10 Holes		●					
27		1297 338 041	81 39115 0224	Output Flange	1	D.180-4 Holes			●				
27		1297 338 010	81 39115 0178	Output Flange	1	D.180-10 Holes			●				
28	188.077	1295 332 051	81 32312 0820	Stop Washer	1			●	●				
29	141.068	1295 306 132	81 32526 0029	Bronze Slide	2			●	●				
30		1295 206 184	81 32518 6034	Fork	1			●					
30		1295 206 189	81 32518 6021	Fork	1			●					
30		1297 206 077	81 32518 0128	Fork	1				●				
30		1297 206 083		Fork	1				●				
31		1295 206 182		Fork	1			●					
31		1295 206 188	81 32518 6020	Fork	1			●					
31		1297 206 076	81 32518 0129	Fork	1				●				
31		1297 206 082		Fork	1				●				
32		1295 206 252		Fork	1			●					
32		1295 206 253	81 32518 6040	Fork	1			●					
32		1297 206 172		Fork	1				●				
32		1297 206 173		Fork	1				●				
32		1297 206 184	81 32518 6013	Fork	1				●				
33		1313 312 002	81 32516 0119	Fork	1			●	●				
34		1295 312 017	81 32518 0110	Rod	1			●					
34		1297 312 007	81 32518 0115	Rod	1				●				
35	132.046	1296 312 042	81 32638 0005	Cylinder	1			●	●				
36	139.331	0750 112 034	81 96401 0148	Cap Collar D.25x38x14,2	1			●	●				
37	189.421	1296 312 053	81 32639 0014	Piston	1			●	●				
38		0750 112 089	81 96503 0019	Ring 53x63x16,2	1			●	●				
39		0737 006 095	81 90501 0188	Nut	1			●	●				
40		0750 132 032	81 52170 6091	Cylinder	1			●	●				
40	280.350	1295 212 008	81 52170 6067	Cylinder	1			●	●				
40		0750 132 033	81 52170 6095	Cylinder	1				●				
41	141.085	1296 334 004	81 32526 0026	Bronze Slide	2			●	●				
42		1313 234 011	81 32518 0190	Fork	1			●					
42	149.171	1312 234 002	81 32518 6042	Fork Lever	1				●				
43	139.331	0750 112 034	81 96401 0148	Cap Collar D.25x38x14,2	1			●	●				
44	189.422	1296 334 039	81 32639 0019	Piston	1			●	●				
45	132.047	1295 334 075	81 32638 0006	Cylinder	1			●	●				
46	198.339	1268 298 938		Spring Slide Set	1			●	●				
47	198.564	CEI 198564		Spring Slide Set	1			●	●				
48	198.842	1295 298 933		Spring Slide Set	1			●	●				
49	198.447	CEI 198447		Gear Set	1			●					
50	198.856	CEI 198856		Synchronizer cone kit	1	Can repl. fig. 15		●	●				
51	135.128	CEI 135128		Saddle Plate	1	Use with fig. 52		●	●				
52	109.174	1296 333 050	81 32425 0141	Synchronizer Cone	1	Use with fig. 51		●	●				

Notes

Date

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Table

004 / B

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suitable to :

**Z.F.****EcoSplit I****From 16S112 to 16S190****Application**

	<b>16S112</b>	<b>16S130</b>	<b>16S160</b>	<b>16S190</b>
	(1296)	(1295)	(1297)	(1297)
<b>MERCEDES</b>				
<b>M.A.N.</b>				
<b>IVECO</b>				
<b>R.V.I.</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**Ratios**

	<b>R.10,14-0,72</b>	<b>R.11,46-0,85</b>	<b>R.13,68-1,00</b>	<b>R.14,29-0,82</b>	<b>R.17,06-1,00</b>
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>16S112</b>					
<b>16S130</b>					
<b>16S160</b>					
<b>16S190</b>					

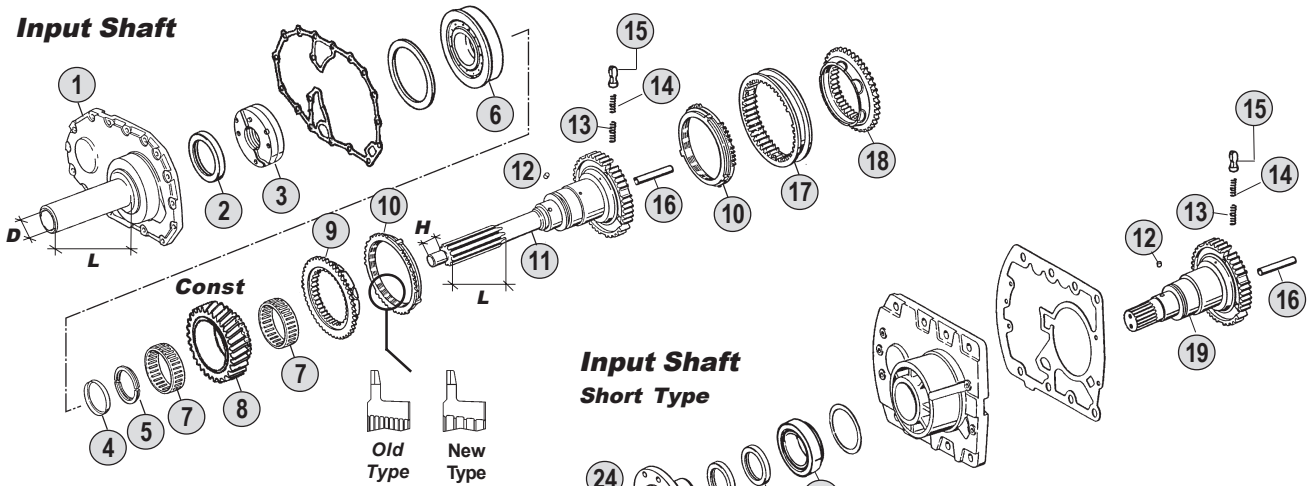
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**ECO I**From 16S130  
To 16S190

Suitable To : **ZF**

**16S130 - 16S160 - 16S190**

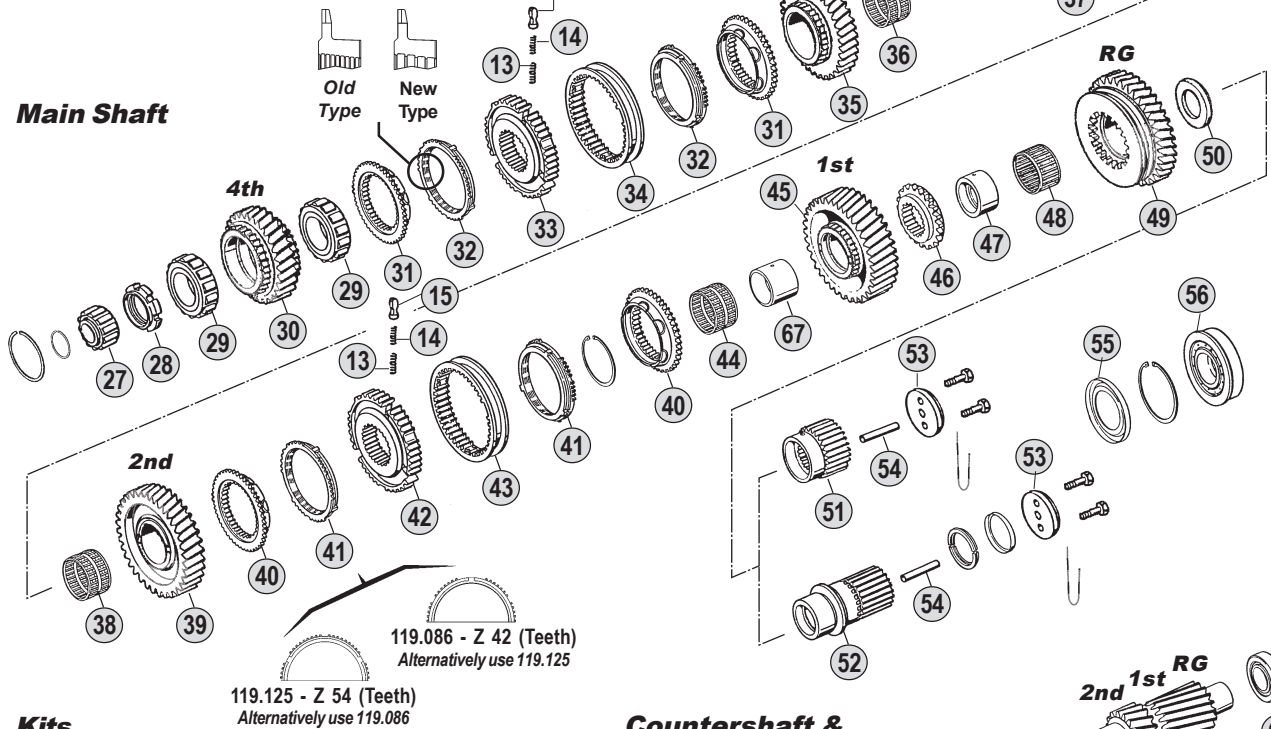
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

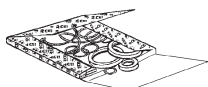
**Main Shaft**



**Kits**

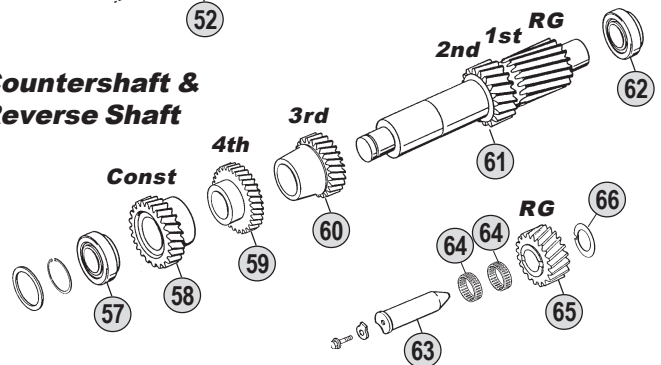


**Gasket Kit 72**



**Oil Seal Kit 71**

**Countershaft & Reverse Shaft**



**Ratios**

<b>16S130</b>	A : 10,14 - 0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : --
<b>16S160</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00
<b>16S190</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00



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16S130 (1286)  
16S160 (1297)  
16S190 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	M.A.N. no.									
1		1297 302 013	81 32522 0025	Front Cover	1	L=170-D=57	●	●	●			
1		1297 302 042	81 32522 0047	Front Cover	1	L=170-D=60	●	●	●			
1		1297 302 239	81 32522 0036	Front Cover	1	L=147-D=60	●	●	●			
2		0750 111 002	81 96502 0225	Oil Seal 48x75x8	1		●	●	●			
2		0634 310 733		Oil Seal 90x110x13	1	(1)	●	●				
2		0734 310 386	81 96503 0342	Oil Seal 55x75x8	1	(5)	●	●	●			
3	<b>280.348</b>	1295 202 041	81 32563 0005	Oil Pump	1		●	●	●			
4	169.754	0730 061 816	81 90820 0141	Securing Ring	1		●	●	●			
4	169.755	0730 062 579	81 90820 0370	Securing Ring	1	S.4,20 mm	●	●	●			
5		0730 103 244	81 32521 0062	Split Ring T.4,30 mm	1	S.4,30 mm (2)	●	●	●			
5		0730 103 935	81 32521 0107	Split Ring T.3,80 mm	1	S.3,80 mm (2)	●	●	●			
5		0730 105 156	81 32521 0122	Split Ring T.4,00 mm	1	S.4,00 mm (3)	●	●	●			
6	130.305	0750 118 131	81 93420 0190	Bearing D.80x150x27,50	1		●	●	●			
7	137.082	0735 320 786	81 93402 0067	Needle Cage D.88x96x24,50	2		●					
7	137.153	0735 320 896	81 93402 0102	Needle Cage D.88x96x29	2			●	●			
8	<b>145.276</b>	1295 302 071	81 32301 0585	Constant Gear 28 T	1			●				
8	145.489	1295 302 070	81 32301 0428	Constant Gear 30 T	1			●				
8	145.541	1295 302 122	81 32301 0599	Constant Gear 29 T	1			●				
8	<b>145.466</b>	1297 302 177	82 32301 0070	Constant Gear 30 T	1				●	●		
8	<b>145.406</b>	1297 302 176	81 32301 0563	Constant Gear 28 T	1				●	●		
8	<b>145.405</b>	1297 302 250	81 32301 0589	Constant Gear 29 T	1				●	●		
8	<b>145.407</b>	1297 302 241		Constant Gear 26 T	1				●	●		
9	<b>109.072</b>	1295 304 278	81 32425 0071	Synchronizer Cone	1			●	●	●		
10	<b>119.084</b>	1295 304 004	81 32420 0081	Synchronizer Ring	2	Old Type		●	●	●		
10	<b>119.175</b>	1304 304 686		Synchronizer Ring	2	New Type		●	●	●		
11	102.230	1295 202 004		Input Shaft	1	L=115H=32		●				
11	102.232	1295 202 007	81 32205 0147	Input Shaft	1	L=115H=25		●				
11	102.254	1295 202 039	81 32205 0175	Input Shaft	1			●				
11		1295 221 001	81 32205 0173	Input Shaft	1	NMV130 (Clutch PTO)		●				
11	102.247	1297 202 008	81 32205 0149	Input Shaft	1	L=115H=25			●			
11	102.235	1297 202 011	81 32205 0176	Input Shaft	1	L=115H=32			●	●		
11		1297 202 045	81 32205 0212	Input Shaft	1				●	●		
11		1297 202 061	81 32205 0194	Input Shaft	1				●	●		
11		1297 221 006		Input Shaft	1	NMV130 (Clutch PTO)			●			
11		1297 221 008		Input Shaft	1	NMV130 (Clutch PTO)			●			
11		1297 221 010		Input Shaft	1	NMV130 (Clutch PTO)			●			
12		0635 470 012	06 32540 0118	Pin	1			●	●	●		
13	<b>156.037</b>	0732 040 385	81 97601 0757	Outer Spring De.6x34	3			●	●	●		
14	<b>156.036</b>	0732 040 386	81 97601 0758	Inner Spring De.3x34	3			●	●	●		
15	<b>160.116</b>	1240 304 278	81 32510 0005	Pressure piece	3			●	●	●		
16	188.208	0730 062 323		Oil Tube	1			●	●	●		
17	<b>154.097</b>	1295 304 002	81 32402 0101	Sliding Sleeve	1			●	●	●		
18	<b>109.072</b>	1295 304 278	81 32425 0071	Synchronizer Cone	1			●	●	●		
19	102.237	1297 202 044	81 32205 0187	Input Shaft	1				●			
20		0750 117 651	81 93420 0222	Bearing 50x90x24,7	1				●			

ECO I  
From 16S130  
To 16S190

## Notes

- (1) Only for input Shaft 1295 221 001 - 1297 221 006/008/010
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (5) Only for input Shaft 1295 202 039 - 1297 202 011/045/061
- (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30)  
Standard Syncro Ring Ø 192 mm ( Z 63 or 54). Use items marked (6) together
- (7) Old Type having straight teeth. Use items marked (7) together.

## Date

03 / 2006

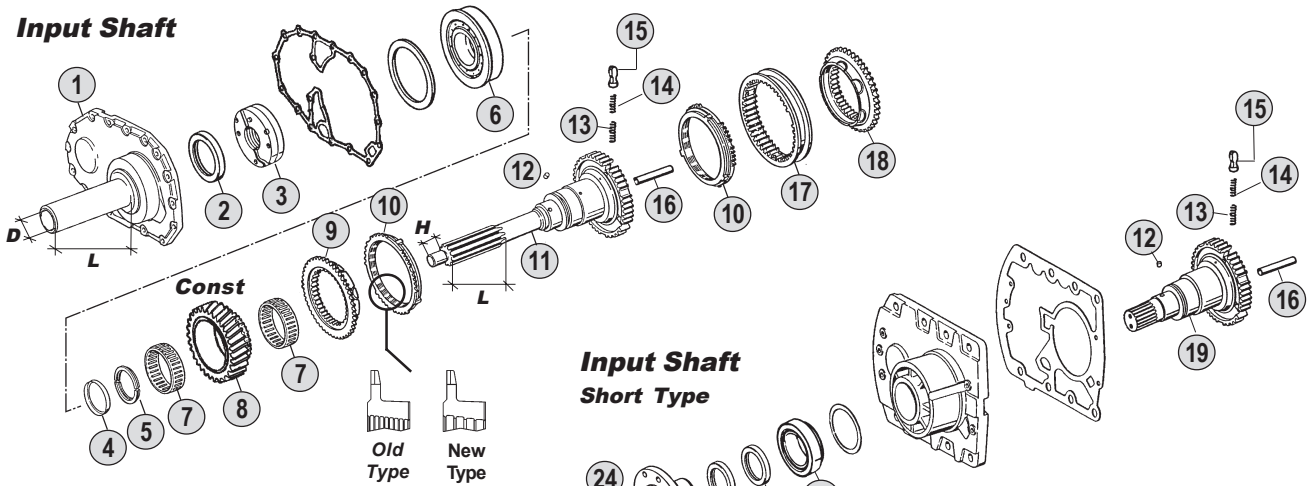
## Table

005 / A

Suitable To : **ZF**

**16S130 - 16S160 - 16S190**

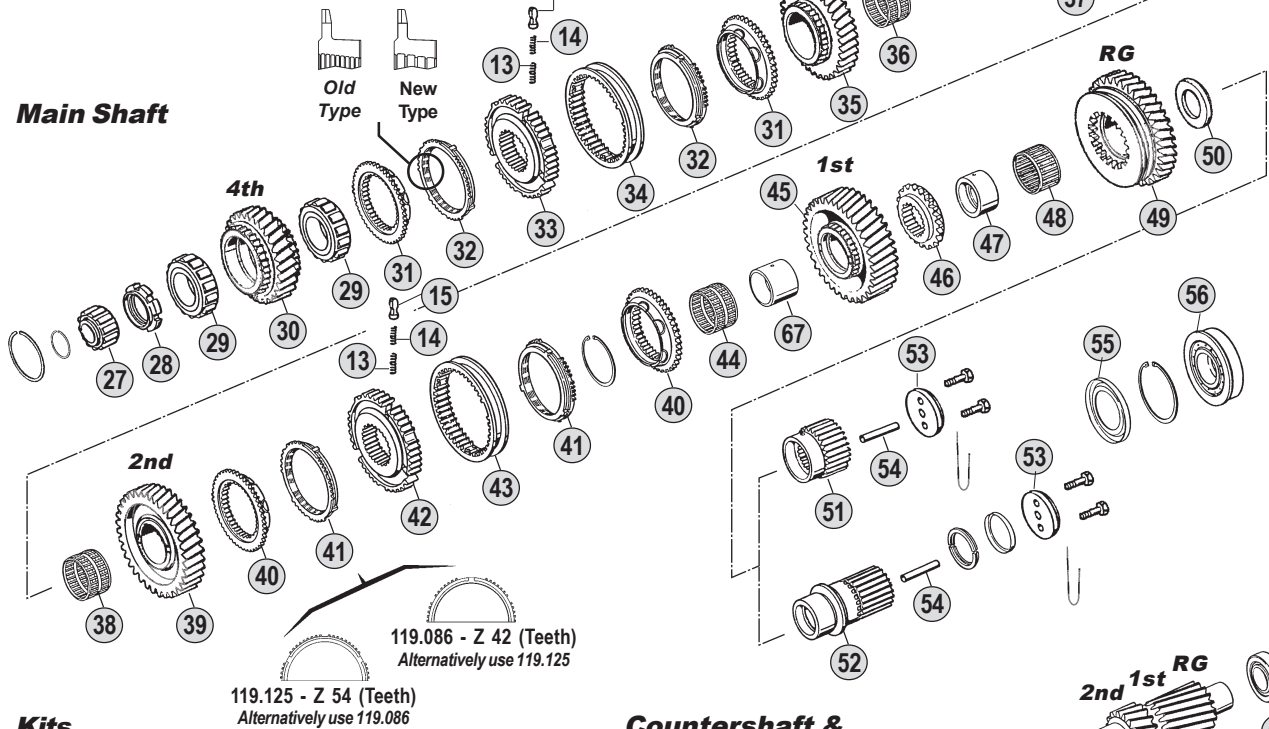
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

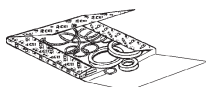
**Main Shaft**



**Kits**

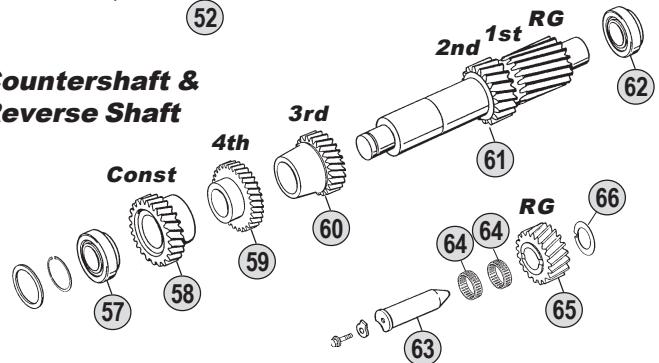


**Gasket Kit 72**



**Oil Seal Kit 71**

**Countershaft & Reverse Shaft**



**Ratios**

<b>16S130</b>	A : 10,14 - 0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : --
<b>16S160</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00
<b>16S190</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	M.A.N. no.					16S130 (1286)	16S160 (1297)	16S190 (1297)		
21		0634 310 648	06 56279 0089	Oil Seal 70x90x10	1			●				
22		0734 300 140	81 96503 0012	Oil Seal 70x90x10	1			●				
23	155.135	1286 304 026		Drive Flange	1	D.150-8H.		●				
24	188.078	1269 302 065	81 32312 0735	Stop Washer	1			●				
26		1269 302 164	81 90801 0277	Stop Washer	1			●				
27	137.081	0750 118 010	81 93404 0028	Roller Cage D.30x60x25,50	1			●				
27	137.113	0750 118 038	81 93420 0174	Roller Cage D.35x68x27,50	1			●	●			
28	187.412	0737 502 092	81 90620 0073	Grooved Nut M60x1,5	1			●	●	●		
29	137.083	0750 118 005	81 93420 0133	Roller Cage D.63x97,5x34,80	2			●				
29	137.157	0750 118 220	81 93420 0188	Roller Cage D.63x97,5x37,50	2			●	●			
30	146.212	1295 304 135	81 32301 0587	Gear 4th Speed 30 T	1		AC	●				
30	146.356	1295 304 136	81 32301 0435	Gear 4th Speed 28 T	1		B	●				
30	146.454	1295 304 236	81 32301 0611	Gear 4th Speed 26 T	1		D	●				
30	146.384	1297 304 267	82 32202 0000	Gear 4th Speed 28 T	1		B	●	●			
30	146.318	1297 304 260	81 32301 0700	Gear 4th Speed 30 T	1		C	●	●			
30	146.315	1297 304 318	81 32301 0623	Gear 4th Speed 26 T	1		D	●	●			
30	146.294	1297 304 413		Gear 4th Speed 29 T	1		E	●	●			
31	109.072	1295 304 278	81 32425 0071	Synchronizer Cone	2			●	●	●		
32	119.084	1295 304 004	81 32420 0081	Synchronizer Ring	2	Old Type		●	●	●		
32	119.175	1304 304 686		Synchronizer Ring	2	New Type		●	●	●		
33	157.110	1297 304 031	81 32420 0083	Synchronizer Hub	1			●	●	●		
34	154.097	1295 304 002	81 32402 0101	Sliding Sleeve	1			●	●	●		
35		1295 304 269		Gear 3rd Speed 25 T	1		A	●				
35	145.495	1295 304 127	81 32301 0434	Gear 3rd Speed 32 T	1		BD	●				
35	145.277	1295 304 128	81 32301 0586	Gear 3rd Speed 34 T	1		C	●				
35	145.470	1297 304 266	81 32301 0621	Gear 3rd Speed 32 T	1		BD	●	●			
35	145.450	1297 304 261	81 32301 0699	Gear 3rd Speed 34 T	1		C	●	●			
35	145.377	1297 304 414		Gear 3rd Speed 34 T	1		E	●	●			
36	137.084	0735 320 418	81 93402 0068	Needle Cage D.82x90x49	1			●				
36	137.112	0735 320 451	81 93402 0098	Needle Cage D.82x90x60	1			●	●			
37		1295 304 273		Main Shaft	1		A	●				
37	103.075	1295 304 245	81 32202 0041	Main Shaft	1		BC	●				
37	103.140	1295 304 250	81 32202 0051	Main Shaft	1		D	●				
37	103.132	1297 304 181	81 32202 0060	Main Shaft	1		BC	●	●			
37	103.098	1297 304 193	81 32202 0052	Main Shaft	1		DE	●	●			
38	137.112	0735 320 451	81 93402 0098	Needle Cage D.82x90x60	1		A	●				
38	137.084	0735 320 418	81 93402 0068	Needle Cage D.82x90x49	1		BCD	●				
38	137.109	0735 320 452	81 93402 0099	Needle Cage D.82x90x55	1			●	●			
39		1295 304 271		Gear 2nd Speed 34 T	1		A	●				
39	145.501	1295 304 120	81 32301 0432	Gear 2nd Speed 37 T	1		BD	●				
39	145.278	1295 304 121	81 32301 0738	Gear 2nd Speed 38 T	1		C	●				
39	145.500	1297 304 269	81 32301 0763	Gear 2nd Speed 37 T	1		BD	●	●			
39	145.375	1297 304 442		Gear 2nd Speed 38 T	1		CE	●	●			
40	109.074	1297 304 196	81 32425 0084	Synchronizer Cone	2			●	●	●		
40	109.072	1295 304 278	81 32425 0071	Synchronizer Cone	2	(6)		●				

## Notes

- (1) Only for input Shaft 1295 221 001 - 1297 221 006/008/010
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (5) Only for input Shaft 1295 202 039 - 1297 202 011/045/061
- (6) Old Type. Old Syncro Ring Ø 175.5 mm (Z 57 or 30)
- Standard Syncro Ring Ø 192 mm (Z 63 or 54). Use items marked (6) together
- (7) Old Type having straight teeth. Use items marked (7) together.

## Date

03 / 2006

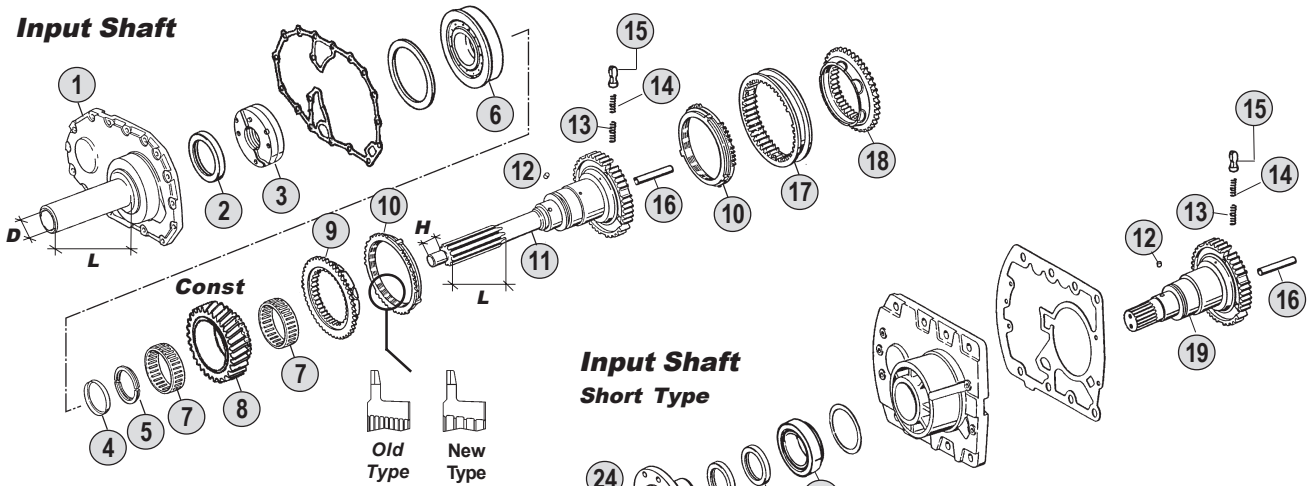
## Table

005 / A

Suitable To : **ZF**

**16S130 - 16S160 - 16S190**

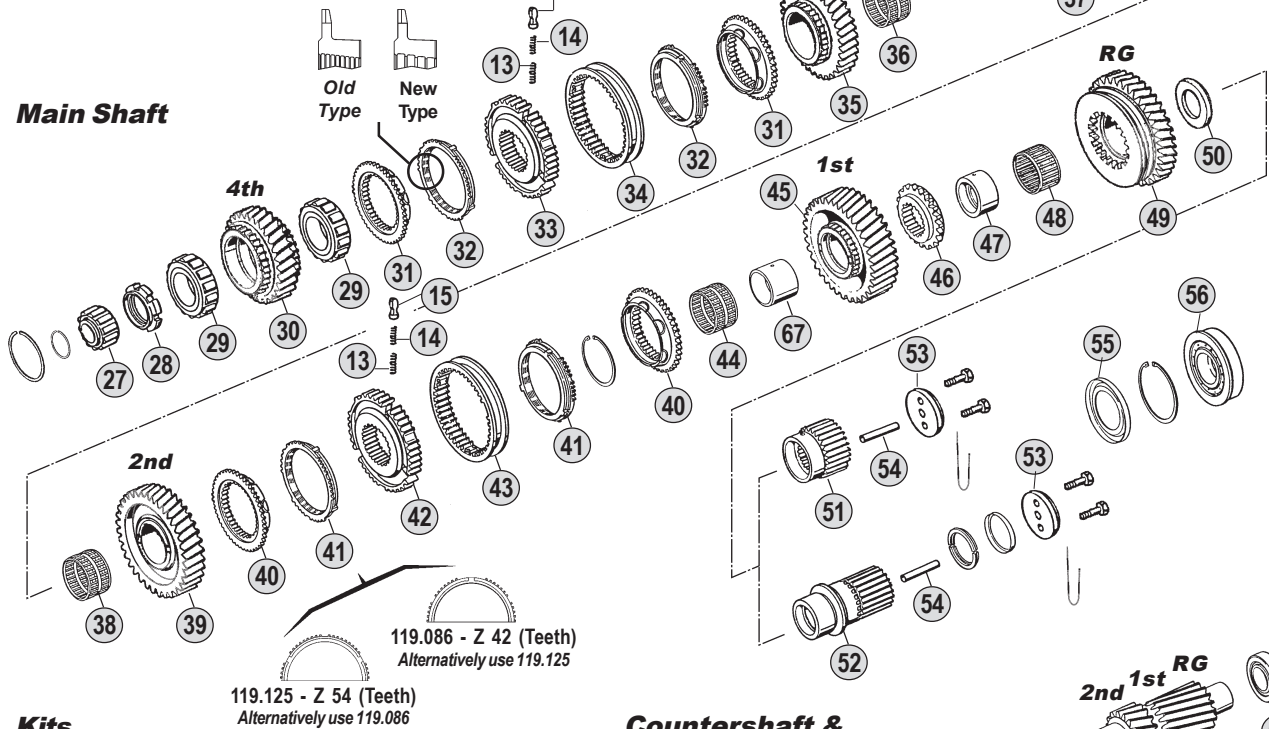
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

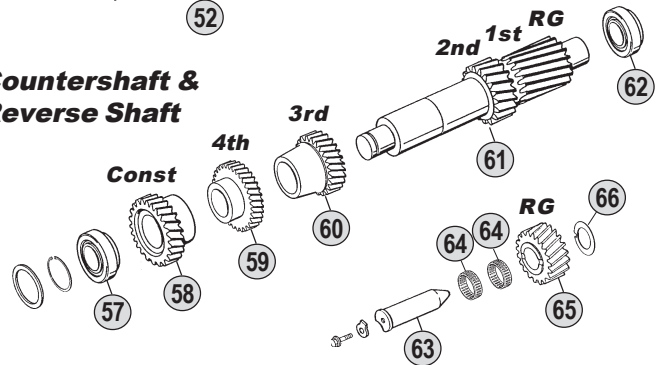
**Main Shaft**



**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S130</b>	A : 10,14 - 0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : --
<b>16S160</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00
<b>16S190</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00

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16S130 (1286)  
16S160 (1297)  
16S190 (1297)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.					M.A.N. no.	16S130 (1286)	16S160 (1297)	16S190 (1297)			
41	119.125	1296 304 135	81 32420 0120	Synchronizer Ring	2	Z 54 - Alt. use 119.086	●	●	●				
41	119.086	1246 304 278		Synchronizer Ring 42 T	2	Z 42 - Alt. use 119.125	●	●	●				
41	119.084	1295 304 004	81 32420 0081	Synchronizer Ring	2	(6)	●						
42	157.111	1297 304 195	81 32420 0122	Synchronizer Hub	1		●	●	●				
42	157.110	1297 304 031	81 32420 0083	Synchronizer Hub	1	(6)	●						
43	154.051	1257 304 020	81 32402 0080	Sliding Sleeve 1st-2nd Speed	1		●	●	●				
43	154.097	1295 304 002	81 32402 0101	Sliding Sleeve	1	(6)	●						
44	137.159	0735 320 548		Needle Cage D.70x78x46	1	A	●						
44	137.085	0735 320 496	81 93402 0070	Needle Cage D.70x78x55	1	BCD	●						
44	137.110	0735 320 487	81 93402 0100	Needle Cage D.82x90x68	1		●	●					
45		1295 304 270		Gear 1st Speed 41 T	1	A	●						
45	145.506	1295 304 203	81 32301 0496	Gear 1st Speed 44 T	1	BD	●						
45	145.545	1295 304 123	81 32301 0433	Gear 1st Speed 44 T	1	(7) B	●						
45	145.279	1295 304 202	81 32301 0697	Gear 1st Speed 47 T	1	C	●						
45	145.507	1297 304 270	81 32301 0764	Gear 1st Speed 44 T	1	BD		●	●				
45	145.376	1297 304 441	81 32301 0698	Gear 1st Speed 47 T	1	CE		●	●				
46	109.184	1295 304 024	81 32425 0063	Engaging Ring	1	A	●						
46	109.075	1295 304 206	81 32425 0072	Engaging Ring	1	BCD	●						
46	109.184	1295 304 024	81 32425 0063	Engaging Ring	1	(7) B	●						
46	109.178	1297 304 154	81 32425 0075	Engaging Ring	1			●	●				
47	117.203	1295 304 012	81 32220 0056	Bush D.60x75x38	1	ABC	●						
47	117.318	1297 304 034	81 32220 0059	Bush	1	BC		●	●				
48	137.086	0750 115 059	81 93402 0088	Needle Cage D.75x83x40	1		●						
48	137.111	0735 320 486	81 93402 0074	Needle Cage D.78x86x44	1			●	●				
49		1295 304 272		Reverse Gear 39 T	1	A	●						
49	147.138	1295 304 201	81 32301 0494	Reverse Gear 39 T	1	BD	●						
49	147.152	1295 304 115	81 32301 0438	Reverse Gear 39 T	1	(7) B	●						
49	147.093	1295 304 200	81 32301 0778	Reverse Gear 38 T	1	C	●						
49	147.109	1297 304 149	81 32301 0499	Reverse Gear 39 T	1	BD		●	●				
49	147.140	1297 304 148		Reverse Gear 38 T	1	CE		●	●				
50	169.409	1295 304 240	81 32312 0748	Thrust Washer	1	ABC	●						
50		1295 304 125	81 32312 0663	Thrust Washer	1	(7) B	●						
50	169.757	1297 304 381	81 91710 0379	Thrust Washer	1	BC		●	●				
51	157.112	1295 304 248	81 32301 0497	Sun Gear 27 T	1	ABC	●						
51	157.177	1297 304 187	81 32301 0466	Sun Gear 27 T	1	BC		●	●				
52	157.207	1295 304 251	81 32301 0603	Sun Gear 24 T	1	D	●						
52	157.198	1297 304 439	81 32301 0624	Sun Gear 24 T	1	DE		●	●				
53	188.076	1272 304 021	81 32312 0710	Stop Washer	1		●	●	●				
54		0730 061 842	81 32562 0008	Oil Tube	1		●	●	●				
55		1295 304 129	81 32147 0008	Oil Collector	1	ABC	●						
55		1297 301 004	81 32312 0854	Oil Collector	1	D	●						
55		1297 301 004	81 32312 0854	Oil Collector	1			●	●				
56	130.240	0750 118 153	81 93420 0129	Bearing D.60x130x31	1	ABC	●						
56		0750 118 137	81 93420 0177	Bearing 80x140x26	1	D	●						
56		0750 118 006	81 93420 0220	Bearing 65x140x33	1	BC		●	●				

## Notes

- (1) Only for input Shaft 1295 221 001 - 1297 221 006/008/010
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (5) Only for input Shaft 1295 202 039 - 1297 202 011/045/061
- (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30)
- (6) Standard Syncro Ring Ø 192 mm ( Z 63 or 54). Use items marked (6) together
- (7) Old Type having straight teeth. Use items marked (7) together.

## Date

03 / 2006

## Table

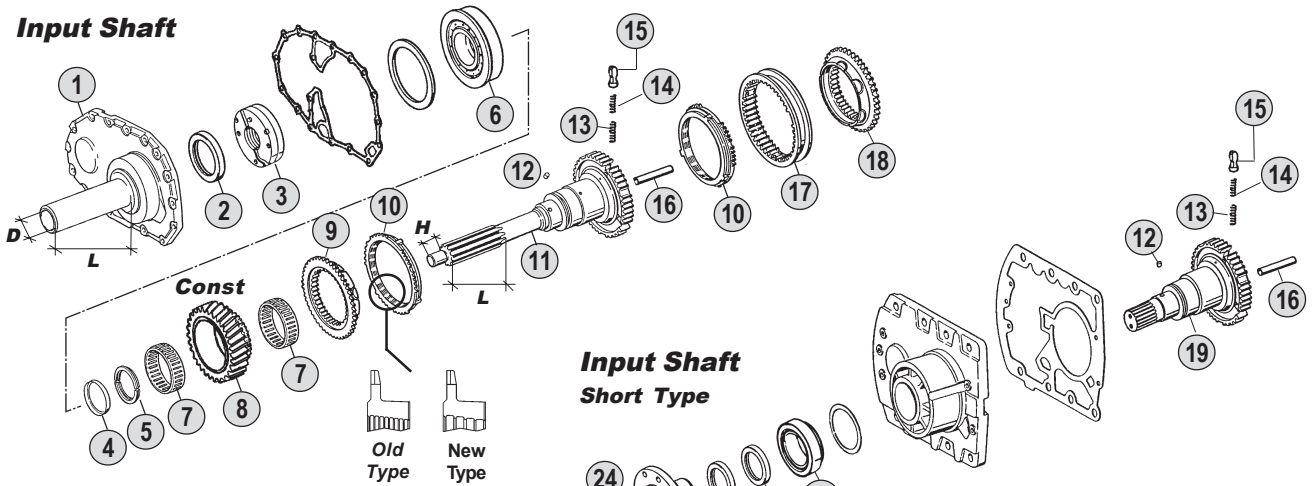
005 / A

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Suitable To : **ZF**

**16S130 - 16S160 - 16S190**

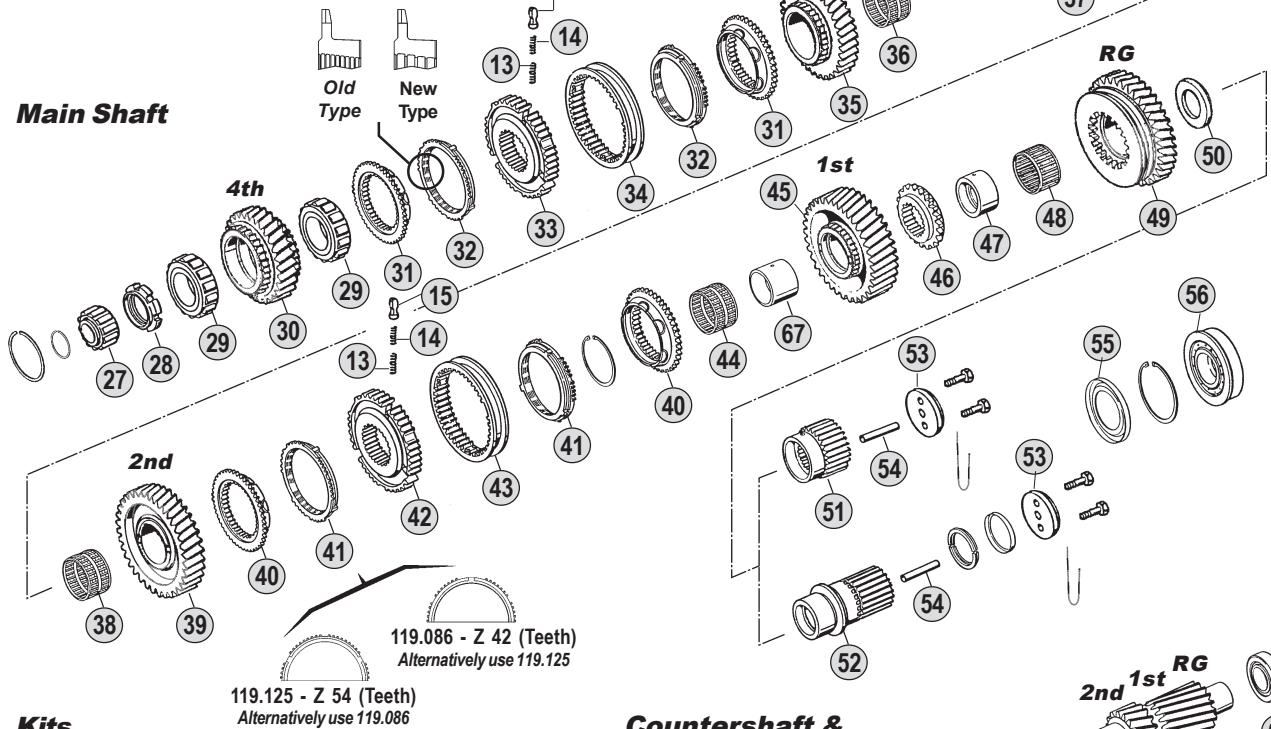
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

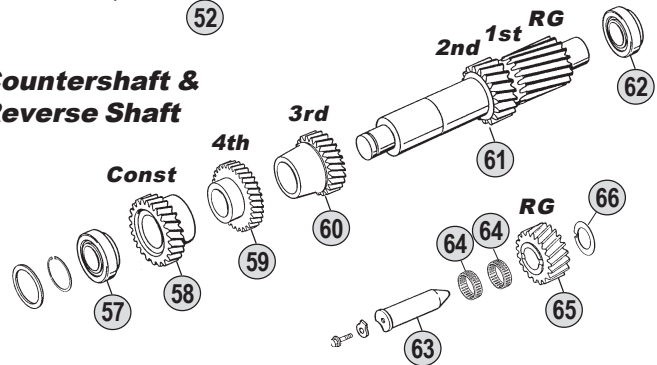
**Main Shaft**



**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S130</b>	A : 10,14 - 0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : --
<b>16S160</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00
<b>16S190</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00



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16S130 (1286)  
16S160 (1297)  
16S190 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	M.A.N. no.					16S130 (1286)	16S160 (1297)	16S190 (1297)		
56		0750 118 180	81 93420 0186	Bearing 80x140x33	1		DE	●	●			
57	<b>130.242</b>	0750 117 010	81 93420 0132	Bearing D.50,80x100x35	1			●	●	●		
58	<b>146.210</b>	1295 303 101	81 32301 0696	Constant Gear 34 T	1		AC	●				
58	146.354	1295 303 036	81 32301 0430	Constant Gear 31 T	1		B	●				
58	146.457	1295 303 060	81 32301 0600	Constant Gear 32 T	1		D	●				
58	<b>146.383</b>	1297 303 074	81 32301 0460	Constant Gear 31 T	1		B		●	●		
58	<b>146.322</b>	1297 303 066	81 32301 0565	Constant Gear 34 T	1		C		●	●		
58	<b>146.319</b>	1297 303 098	81 32301 0590	Constant Gear 32 T	1		D		●	●		
58	<b>146.321</b>	1297 303 086		Constant Gear 35 T	1		E		●	●		
59	<b>146.209</b>	1295 303 027	81 32301 0737	Gear 4th Speed 31 T	1		AC	●				
59	146.413	1295 303 028	81 32301 0431	Gear 4th Speed 34 T	1		B	●				
59	146.461	1295 303 094	81 32301 0598	Gear 4th Speed 35 T	1		D	●				
59	<b>146.382</b>	1297 303 072	82 32301 0072	Gear 4th Speed 34 T	1		B		●	●		
59	<b>146.381</b>	1297 303 065	81 32301 0564	Gear 4th Speed 31 T	1		C		●	●		
59	<b>146.415</b>	1297 303 097	81 32301 0619	Gear 4th Speed 35 T	1		D		●	●		
59	<b>146.416</b>	1297 303 123		Gear 4th Speed 32 T	1		E		●	●		
60		1295 303 071		Gear 3rd Speed 36 T	1		A	●				
60	146.355	1295 303 025	81 32301 0429	Gear 3rd Speed 28 T	1		BD	●				
60	<b>146.211</b>	1295 303 026	81 32301 0777	Gear 3rd Speed 25 T	1		C	●				
60	<b>146.357</b>	1297 303 073	81 32301 0618	Gear 3rd Speed 28 T	1		BD		●	●		
60	<b>146.421</b>	1297 303 067	81 32301 0682	Gear 3rd Speed 25 T	1		C		●	●		
60	<b>146.422</b>	1297 303 132		Gear 3rd Speed 26 T	1		E		●	●		
61		1295 303 072		Countershaft	1		A	●				
61	105.119	1295 303 067	81 32206 0060	Countershaft 19-23 T	1		BD	●				
61	105.105	1295 303 045	81 32208 0001	Countershaft 19-23 T	1	(7)	B	●				
61	<b>105.060</b>	1295 303 066	81 32206 0075	Countershaft 17-20 T	1		C	●				
61	<b>105.092</b>	1297 303 075	81 32206 0063	Countershaft 19-23 T	1		BD		●	●		
61	<b>105.093</b>	1297 303 140	81 32206 0071	Countershaft 17-20 T	1		CE		●	●		
62	130.243	0750 117 008	81 93420 0131	Bearing D.50x110x42	1			●				
62	<b>130.308</b>	0750 117 009	81 93420 0187	Bearing D.49,2x103,1x43,6	1				●	●		
63	107.108	1295 305 056	81 32317 0032	Reverse Gear Pin	1			●	●	●		
64	<b>137.007</b>	0750 115 011	81 93402 0066	Needle Cage D.45x53x21	2			●	●	●		
65	147.153	1297 305 003	81 32315 0031	Reverse Gear 21 T	1		A	●				
65	147.133	1295 305 051	81 32315 0034	Reverse Gear 21 T	1		BD	●				
65	147.153	1297 305 003	81 32315 0031	Reverse Gear 21 T	1	(7)	B	●				
65	147.094	1295 305 052	81 32315 0038	Reverse Gear 24 T	1		C	●				
65	147.133	1295 305 051	81 32315 0034	Reverse Gear 21 T	1		BD		●	●		
65	147.094	1295 305 052	81 32315 0038	Reverse Gear 24 T	1		CE		●	●		
66	<b>169.234</b>	0730 150 064	81 32312 0153	Thrust Washer	1			●	●	●		
67	117.246	1297 304 035	81 32220 0070	Bush	1				●	●		
68	<b>198.339</b>	1268 298 938		Spring Slide Set	1			●	●	●		
69	<b>198.564</b>	CEI 198564		Spring Slide Set	1			●	●	●		
70	<b>198.842</b>	1295 298 933		Spring Slide Set	1			●	●	●		
71	<b>198.428</b>	1295 298 960	81 32900 6059	Oil Seal Ring Kit	1			●	●	●		
72	<b>198.427</b>	1295 298 915	81 32900 6008	Gasket Kit	1			●	●	●		

**ECO I**  
From 16S130  
To 16S190

## Notes

- (1) Only for input Shaft 1295 221 001 - 1297 221 006/008/010
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (5) Only for input Shaft 1295 202 039 - 1297 202 011/045/061
- (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30)  
Standard Syncro Ring Ø 192 mm ( Z 63 or 54). Use items marked (6) together
- (7) Old Type having straight teeth. Use items marked (7) together.

## Date

03 / 2006

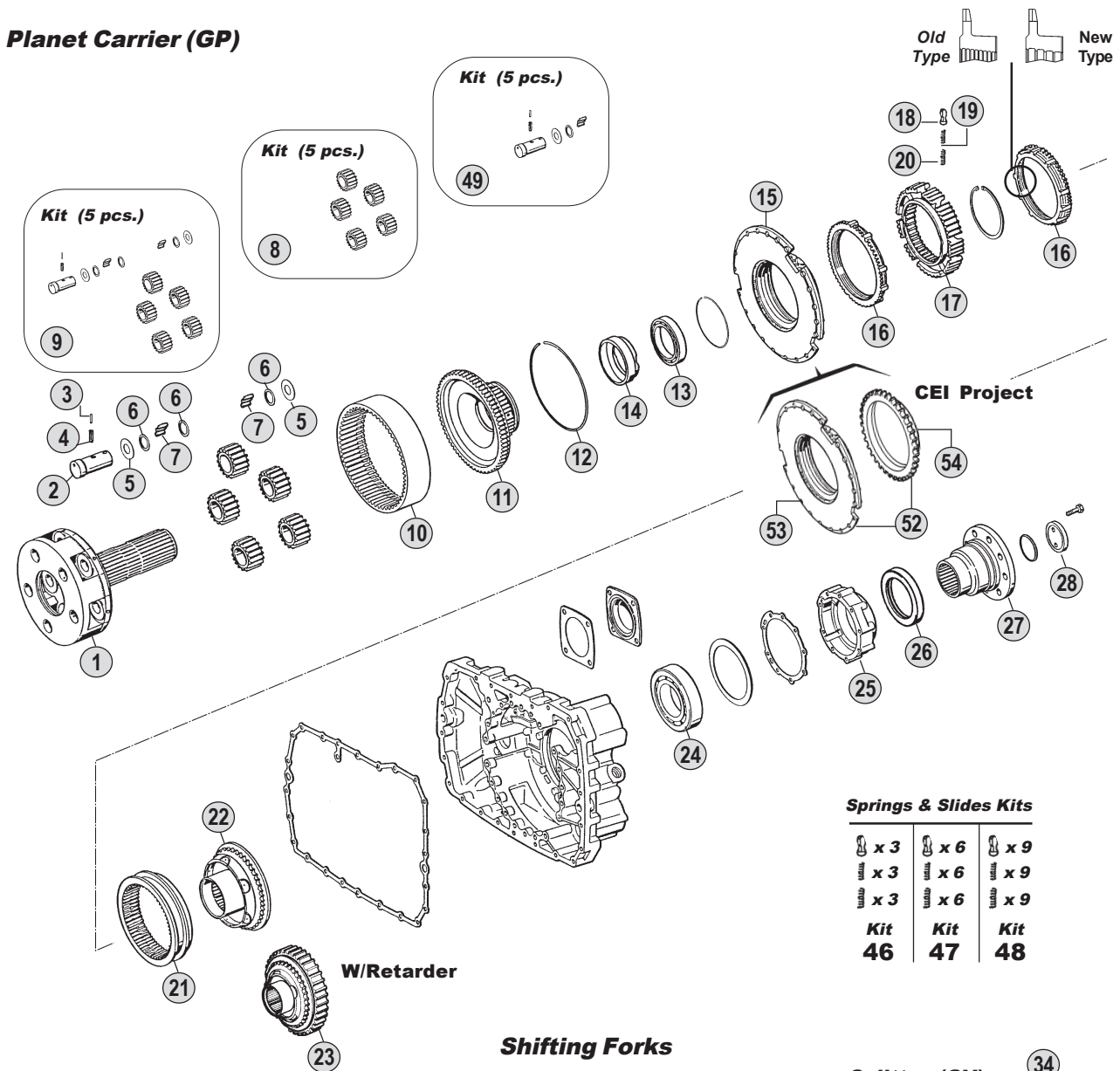
## Table

005 / A

Suitable To : **ZF**

**16S130 - 16S160 - 16S190**

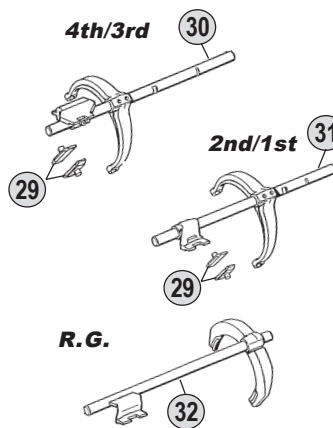
**Planet Carrier (GP)**



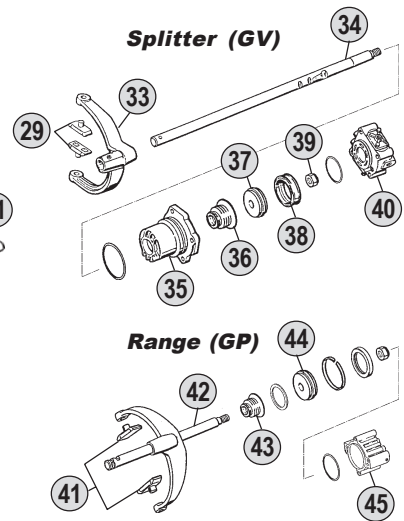
**Kits**



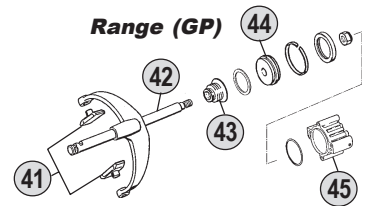
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16S130</b>	A :10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E:--
<b>16S160</b>	A :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E:17,06-1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	M.A.N. no.					16S130 (1286)	16S160 (1297)	16S190 (1297)			
1	190.169	1295 232 044	81 32403 0078	Planetary Carrier	1		ABC	●					
1	190.395	1297 232 045	81 32403 0079	Planetary Carrier	1		D	●					
1	190.396	1297 232 039	81 32403 0066	Planetary Carrier	1		BC		●	●			
1	190.395	1297 232 045	81 32403 0079	Planetary Carrier	1		DE		●	●			
1		1316 232 005	81 37501 0043	Planetary Carrier	1	(8)	E			●			
2	<b>107.089</b>	1269 332 036	81 32523 0086	Planet Shaft	5		ABC	●					
2	107.163	1297 332 109	81 32523 0111	Planet Shaft	5		D	●					
2	107.163	1297 332 109	81 32523 0111	Planet Shaft	5				●	●			
2	107.165	1312 332 026	81 32523 0160	Planet Shaft	5	(8)				●			
3	160.191	0631 329 017	06 22120 0512	Lock Pin D.3x24	5			●	●	●			
3	160.195	0631 329 167	06 22120 0513	Lock Pin D.3x26	5	(8)				●			
4	160.192	0631 329 050	06 22120 0912	Lock Pin D.5x24	5			●	●	●			
4	160.194	0631 329 051	06 22120 0913	Lock Pin D.5x26	5	(8)				●			
5	169.408	0501 305 887	81 90712 0494	Thrust Washer D.29x57,50x1,50	10		ABC	●					
5	169.753	0501 306 212	81 32312 0707	Thrust Washer D.29x64x1,5	10		D	●					
5	169.753	0501 306 212	81 32312 0707	Thrust Washer D.29x64x1,5	10				●	●			
5	169.759	0501 308 981	81 32313 0123	Thrust Washer	10	(8)				●			
6	<b>169.410</b>	0730 103 846	81 90712 0495	Spacer Ring D.29x39x1,00	15			●	●	●			
6	169.744	0730 107 168	81 32313 0114	Spacer Ring	15	(8)				●			
7	<b>171.016</b>	0735 470 057	81 93403 0010	Roller Set D.6x14,75 (180 pcs)	180		ABC	●					
7	171.045	0750 119 109	81 32528 0014	Roller Set D.10x16,80 (120 pcs)	120		D	●					
7	171.045	0750 119 109	81 32528 0014	Roller Set D.10x16,80 (120 pcs)	120				●	●			
7	171.062	0750 119 116	81 93403 0023	Roller D.10x16,8	140	(8)				●			
8	<b>198.357</b>	1295 232 027	81 32301 6002	Planetary Gear Set (5 pcs)	1		ABC	●					
8	198.810	1297 232 024	81 32301 6007	Planetary Gear Set (5 pcs)	1		D	●					
8	198.803	1297 232 023	81 32301 6003	Planetary Gear Set (5 pcs)	1		BC		●	●			
8	198.810	1297 232 024	81 32301 6007	Planetary Gear Set (5 pcs)	1		DE		●	●			
8	198.801	1312 232 014	81 37505 6009	Planetary Gear Set (5 pcs)	1	(8)	E			●			
9	198.562	1296 298 904		Planetary Gear Set	1		ABC	●					
9	<b>198.704</b>	1297 298 912		Planetary Gear Set	1		BC		●	●			
9		1297 298 919		Planetary Gear Set	1		DE		●	●			
10	123.162	1295 332 053	81 32301 0444	Crown Gear 83 T	1		ABC	●					
10	123.208	1295 332 086	81 32301 0604	Crown Gear 86 T	1		D	●					
10	123.217	1297 332 080	81 32301 0691	Crown Gear 83 T	1		BC		●	●			
10	123.208	1295 332 086	81 32301 0604	Crown Gear 86 T	1		DE		●	●			
11	150.112	1295 332 021	81 32403 0052	Flange Gear 83 T	1		ABC	●					
11	150.137	1297 332 035	81 32403 0070	Flange Gear 86 T	1		D	●					
11	150.138	1297 332 017	81 32403 0057	Flange Gear 83 T	1		BC		●	●			
11	150.137	1297 332 035	81 32403 0070	Flange Gear 86 T	1		DE		●	●			
11	150.134	1297 332 120	81 37511 0007	Flange Gear 86 T	1	(8)	E			●			
12	111.129	0730 505 055	81 90820 0284	Locking Wire	1		ABC	●					
12	111.198	0730 505 056	81 90820 0371	Locking Wire	1		D	●					
12	111.129	0730 505 055	81 90820 0284	Locking Wire	1		BC		●	●			
12	111.198	0730 505 056	81 90820 0371	Locking Wire	1		DE		●	●			
13	130.244	0750 116 166	06 31429 0075	Bearing D.75x105x16	1		ABC	●					

## Notes

- (7) Old Type having straight teeth (1st - RG speed) .Use items marked (7) together.  
 (8) New Reinforced Style. Use items marked (8) together

## Date

03 / 2006

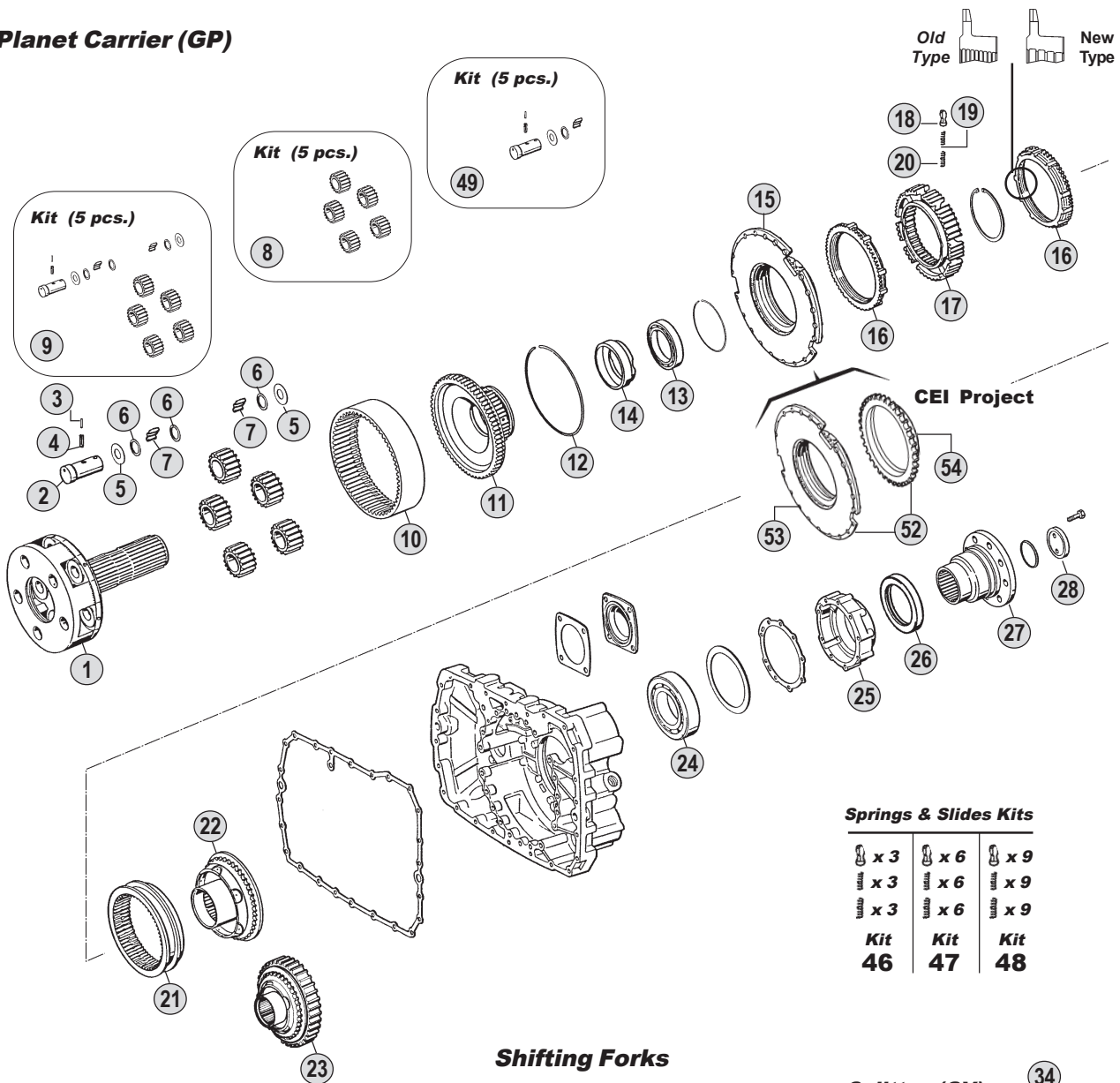
## Table

005 / B

Suitable To : **ZF**

**16S130 - 16S160 - 16S190**

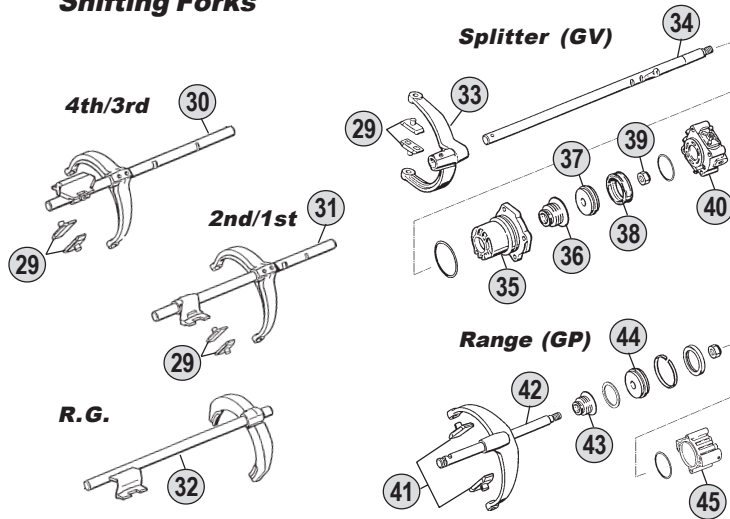
**Planet Carrier (GP)**



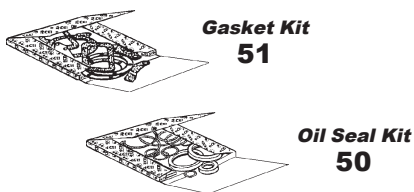
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

**Shifting Forks**



**Kits**



**Ratios**

<b>16S130</b>	A : 10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : --
<b>16S160</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00
<b>16S190</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.					M.A.N. no.	16S130 (1286)	16S160 (1297)	16S190 (1297)			
13	130.310	0750 116 165	81 93410 0083	Bearing D.80x110x16	1		D	●					
13	130.310	0750 116 165	81 93410 0083	Bearing D.80x110x16	1				●	●			
13	130.311	0635 338 035		Bearing D.100x125x13	1	(8)				●			
14		1297 332 002	81 32312 0708	Ring	1		D	●					
14		1297 332 002	81 32312 0708	Ring	1				●	●			
15	198.358	1296 233 006	81 32425 0073	Synchronizer Cone	1			●	●	●			
16	119.085	1296 333 022	81 32420 0096	Synchronizer Ring	2	Old Type		●	●	●			
16	119.172	1296 333 045	81 32420 0236	Synchronizer Ring	2	New Type		●	●	●			
17	157.113	1296 333 002	81 32420 0095	Synchronizer Hub	1			●	●	●			
17	157.183	1297 333 115	81 32420 0159	Synchronizer Hub	1	(8)				●			
18	160.116	1240 304 278	81 32510 0005	Pressure Piece	9			●	●	●			
19	156.036	0732 040 386	81 97601 0758	Inner Spring De.3x34	9			●	●	●			
20	156.037	0732 040 385	81 97601 0757	Outer Spring De.6x34	9			●	●	●			
21	154.098	1296 333 023	81 32402 0111	Sliding Sleeve	1			●	●	●			
22	198.359	1295 233 025	81 32425 0074	Synchronizer Cone (36 Spl.)	1		ABC	●					
22	198.374	1313 233 001	81 32425 0083	Synchronizer Cone (38 Spl.)	1		D	●					
22	198.374	1313 233 001	81 32425 0083	Synchronizer Cone (38 Spl.)	1				●	●			
22	198.790	1297 233 056	81 32425 0100	Synchronizer Cone (41 Spl.)	1	(8)				●			
23		1297 333 117		Synchronizer Cone	1	With Retarder	ABC	●					
23		1297 333 118	81 32301 0809	Synchronizer Cone	1	With Retarder	D	●					
23		1297 333 118	81 32301 0809	Synchronizer Cone	1	With Retarder			●	●			
24	130.245	0750 116 002	81 93410 0046	Bearing D.90x160x30	1			●	●	●			
25		1296 301 067	81 32106 0072	Cover	1			●	●				
25	128.098	1315 301 220	81 32106 0152	Cover	1			●	●				
25		1296 301 067	81 32106 0072	Cover	1					●			
25	128.098	1315 301 220	81 32106 0152	Cover	1	(8)				●			
26		0750 111 341	81 96503 0236	Oil Seal 105x130x12	1			●	●				
27		1295 238 003		Output Flange	1	D.165-8 H.	ABC	●					
27		1295 338 061	81 39115 0215	Output Flange	1	D.180-4 H.	ABC	●					
27	197.051	1295 338 014	81 39115 0171	Output Flange	1	D.180-10 H.	ABC	●					
27		1295 338 059	81 39115 0214	Output Flange	1	D.180-10 H.	ABC	●					
27	197.074	1295 338 016		Output flange	1	D.204-4 H.	ABC	●					
27		1295 338 028		Output Flange	1	D.204-4 H.	ABC	●					
27		1297 338 041	81 39115 0224	Output Flange	1	D.180-4 H.	D	●					
27		1297 338 010	81 39115 0178	Output Flange	1	D.180-10 H.	D	●					
27		1297 338 041	81 39115 0224	Output Flange	1	D.180-4 H.			●	●			
27		1297 338 038	81 39115 0213	Output Flange	1	D.180-10 H.			●	●			
27		1297 338 010	81 39115 0178	Output Flange	1	D.180-10 H.			●	●			
27		1297 333 110	81 39115 0289	Output Flange	1	D.180-4 H. (8)				●			
28	188.077	1295 332 051	81 32312 0820	Stop Washer	1			●	●	●			
28		1295 332 064		Stop Washer	1	Only with 1295 238 003		●					
28		1312 332 028	81 90713 0154	Stop Washer	1	(8)				●			
29	141.068	1295 306 132	81 32526 0029	Bronze Slide	2			●	●	●			
30		1295 206 219		Fork	1			●					
30		1295 206 212	81 32518 6024	Fork	1			●					

## Notes

- (7) Old Type having straight teeth (1st - RG speed) .Use items marked (7) together.  
 (8) New Reinforced Style. Use items marked (8) together

## Date

03 / 2006

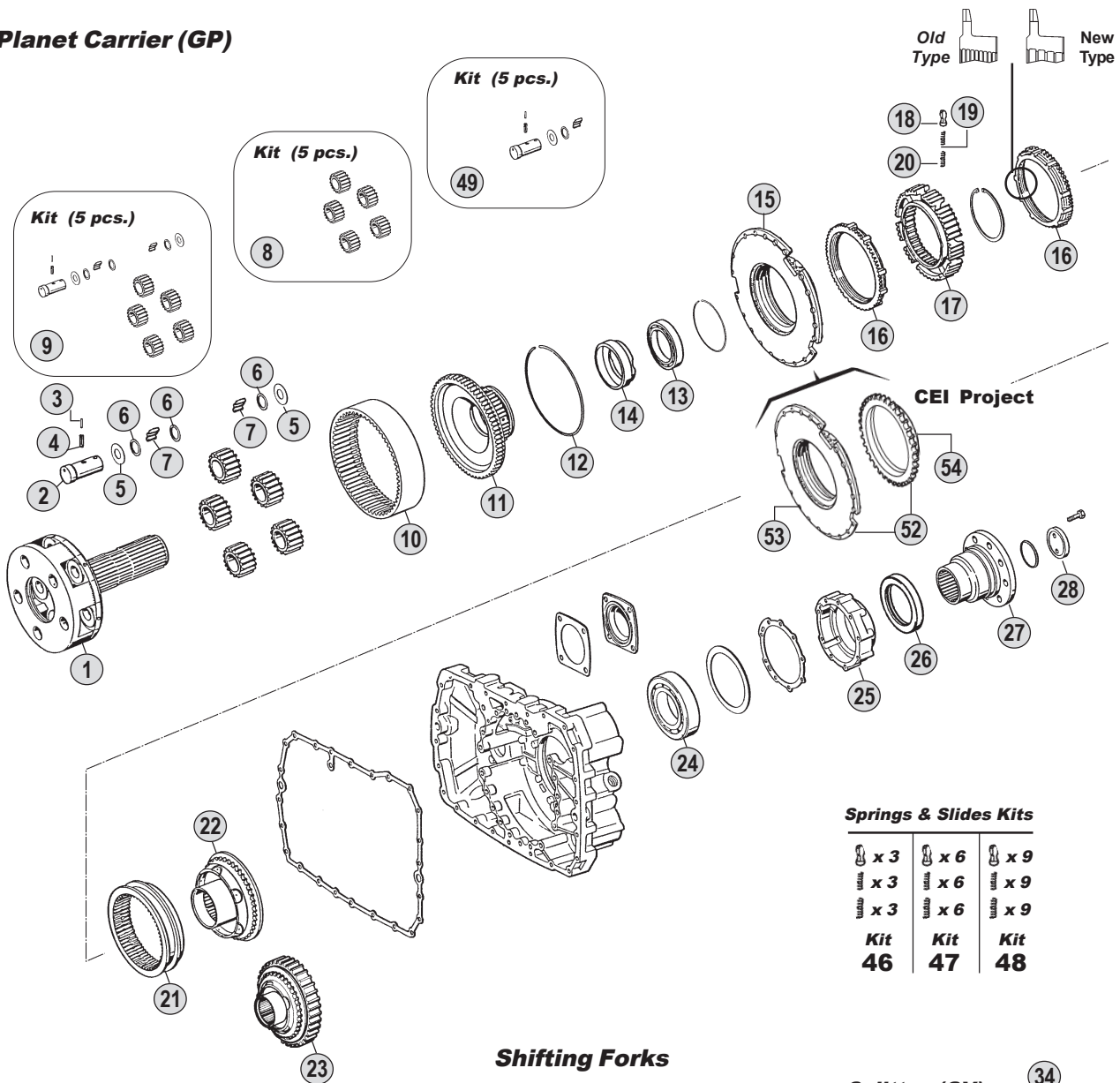
## Table

005 / B

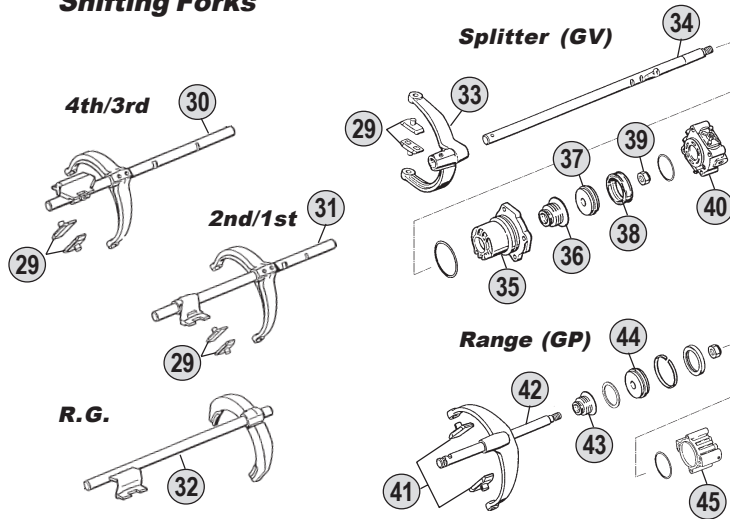
Suitable To : **ZF**

**16S130 - 16S160 - 16S190**

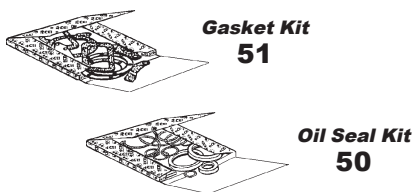
**Planet Carrier (GP)**



**Shifting Forks**



**Kits**



**Ratios**

<b>16S130</b>	A :10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E:17,06-1,00

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16S130 (1286)  
16S160 (1297)  
16S190 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	M.A.N. no.					16S130 (1286)	16S160 (1297)	16S190 (1297)		
30	198.362	1295 206 213	81 32518 6023	Fork	1			●				
30		1297 206 103		Fork	1			●	●			
30		1297 206 104	81 32518 6037	Fork	1			●	●			
30		1297 206 192		Fork	1				●			
31		1295 206 223		Fork	1			●				
31		1295 206 217		Fork	1			●				
31		1295 206 214	81 32518 6028	Fork	1			●				
31		1295 206 215	81 32518 0128	Fork	1			●				
31		1297 206 106		Fork	1				●	●		
31		1297 206 105	81 32518 6038	Fork	1				●	●		
31		1297 206 191		Fork	1					●		
32		1295 206 250		Fork	1			●				
32		1295 206 249		Fork	1			●				
32	198.360	1295 206 255	81 32518 0142	Fork	1			●				
32		1295 206 254	81 32518 0173	Fork	1			●				
32		1295 206 059		Fork	1	(7)		●				
32		1297 206 174	81 32518 0146	Fork	1				●	●		
32		1297 206 175	81 32518 6039	Fork	1				●	●		
32		1297 206 181		Fork	1					●		
33		1313 312 002	81 32516 0119	Fork	1			●	●	●		
34	149.172	1295 312 018	81 32518 0106	Selector rod	1			●				
34		1297 312 008	81 32518 0132	Selector Rod	1				●	●		
35	<b>132.046</b>	1296 312 042	81 32638 0005	Cylinder	1			●	●	●		
36	139.331	0750 112 034	81 96401 0148	Cap Collar D.25x38x14,2	1			●	●	●		
37	189.421	1296 312 053	81 32639 0014	Piston	1			●	●	●		
38		0750 112 089	81 96503 0019	Ring 53x63x16,2	1			●	●	●		
39		0737 006 095	81 90501 0188	Nut	1			●	●	●		
40		0750 132 032	81 52170 6091	Cylinder	1			●	●	●		
40		0750 132 033	81 52170 6095	Cylinder	1			●	●	●		
40	280.350	1295 212 008	81 52170 6067	Cylinder	1			●	●			
40		1295 212 009	81 52170 6075	Cylinder	1				●			
41	<b>141.085</b>	1296 334 004	81 32526 0026	Bronze Slide	2			●	●	●		
42	149.171	1312 234 002	81 32518 6042	Fork Lever	1			●	●	●		
43	139.331	0750 112 034	81 96401 0148	Cap Collar D.25x38x14,2	1			●	●	●		
44	189.422	1296 334 039	81 32639 0019	Piston	1			●	●	●		
44		1297 334 056	81 32639 0031	Piston	1	(8)				●		
45	<b>132.047</b>	1295 334 075	81 32638 0006	Cylinder	1			●	●	●		
45		1297 334 055	81 32638 0014	Cylinder	1	(8)				●		
46	<b>198.339</b>	1268 298 938		Spring Slide Set	1			●	●	●		
47	<b>198.564</b>	CEI 198564		Spring Slide Set	1			●	●	●		
48	<b>198.842</b>	1295 298 933		Spring Slide Set	1			●	●	●		
49	198.447	CEI 198447		Gear Set	1		ABC	●				
50	<b>198.428</b>	1295 298 960	81 32900 6059	Oil Seal Ring Kit	1			●	●	●		
51	<b>198.427</b>	1295 298 915	81 32900 6008	Gasket Kit	1			●	●	●		
52	<b>198.856</b>	CEI 198856		Synchronizer cone kit	1	Can Repl. fig. 15		●	●	●		

ECO I

From 16S130  
To 16S190

## Notes

- (7) Old Type having straight teeth (1st - RG speed) .Use items marked (7) together.  
 (8) New Reinforced Style. Use items marked (8) together

## Date

03 / 2006

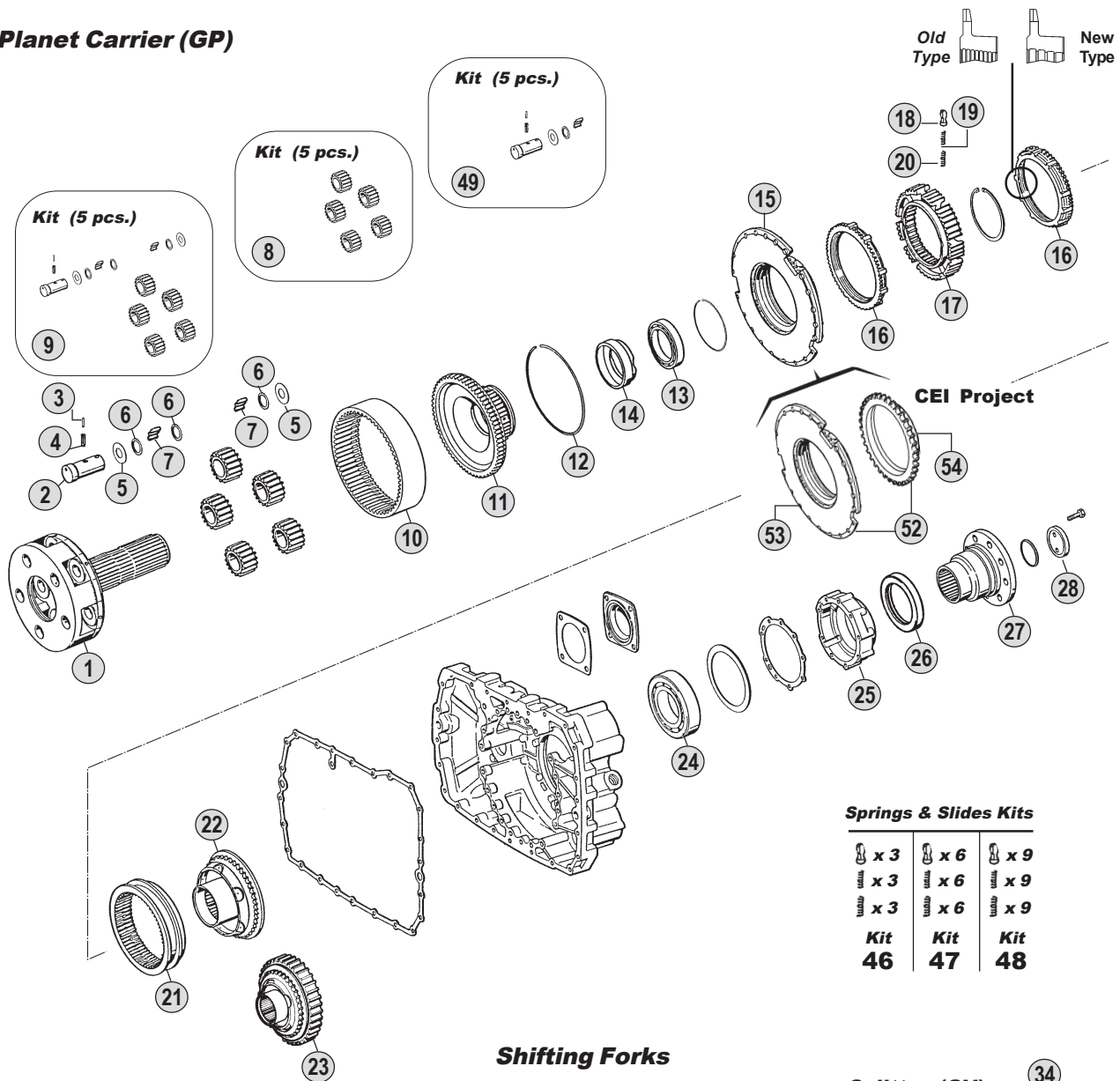
## Table

005 / B

Suitable To : **ZF**

**16S130 - 16S160 - 16S190**

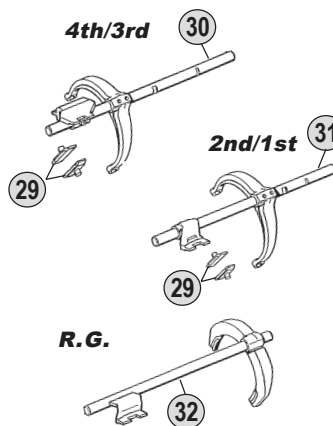
**Planet Carrier (GP)**



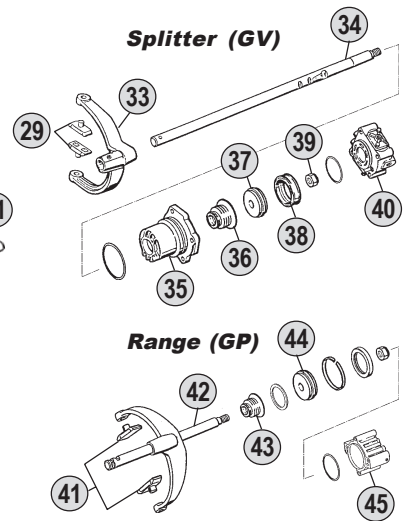
**Kits**



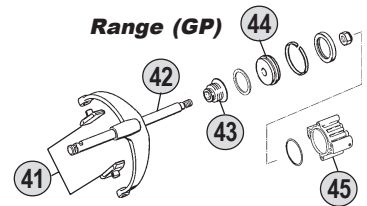
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16S130</b>	A : 10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : --
<b>16S160</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00
<b>16S190</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00

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16S130 (1286)  
16S160 (1297)  
16S190 (1297)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					M.A.N. no.	16S130 (1286)	16S160 (1297)	16S190 (1297)		
53	135.128	CEI 135128		Saddle Plate	1	Use with fig. 54	●	●	●			
54	109.174	1296 333 050	81 32425 0141	Synchronizer Cone	1	Use with fig. 53	●	●	●			

**ECO I**  
From 16S130  
To 16S190

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Notes \_\_\_\_\_

Date \_\_\_\_\_



- (7) Old Type having straight teeth (1st - RG speed) .Use items marked (7) together.
- (8) New Reinforced Style. Use items marked (8) together

03 / 2006

Table

005 / B





suitable to :

**Z.F.****EcoSplit II****From 16S150 to 16S220****Application**

	16S150 (1313)	16S220 (1312)		
<b>MERCEDES</b>				
<b>MAN</b>				
<b>IVECO</b>				
<b>RVI</b>				
<b>DAF</b>				
<b>VOLVO</b>				

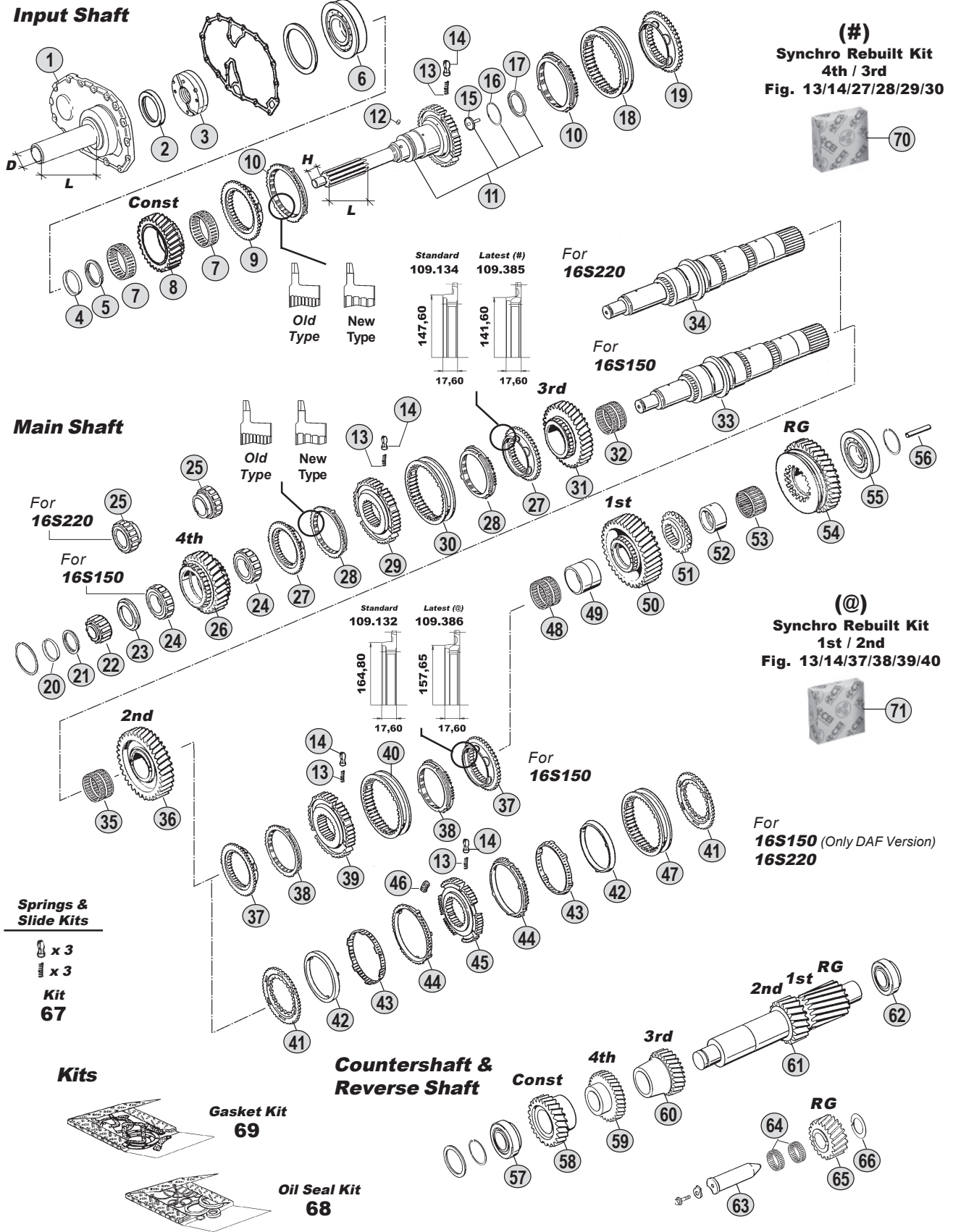
**Ratios**

	R.10,14-0,72 <b>A</b>	R.13,80-0,84 <b>B</b>	R.16,47-1,00 <b>C</b>		
<b>16S150</b>					
<b>16S220</b>					

**ECO II**From 16S150  
To 16S220

Suitable To : **ZF**

**16S150 - 16S220**



**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A: 10,14 - 0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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16S150 (1313)  
16S220 (1312)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	M.A.N. no.					16S150 (1313)	16S220 (1312)					
1		1312 302 036	81 32240 0008	Front Cover	1	L=170-D=60	●	●						
1		1312 302 096	81 32106 0151	Front Cover	1	L=147-D=60	●	●						
2		0734 310 386	81 96503 0342	Oil Seal 55x75x8	1		●	●						
2		0634 310 733		Oil Seal 90x110x13	1	(1)	●							
3	<b>280.348</b>	1295 202 041	81 32563 0005	Oil Pump	1		●	●						
4	169.754	0730 061 816	81 90820 0141	Securing Ring	1		●	●						
5		0730 106 168	81 32521 0132	Split Ring	1	S.4,30 mm	●	●						
5		0730 106 158	81 32521 0142	Split Ring	1	S.3,80 mm	●	●						
6	<b>130.306</b>	0750 117 431	81 93420 0252	Bearing D.75x150x30,50	1		●	●						
7	137.148	0750 115 310	81 93402 0107	Needle Cage D.93x101x25	1		●							
7	<b>137.134</b>	0735 321 438	82 93402 0023	Needle Cage D.93x101x32,50	1			●						
8	<b>145.557</b>	1313 302 036	81 32301 0806	Constant Gear 34 T	1			●						
8	145.525	1313 302 035		Constant Gear 30 T	1			●						
8		1312 302 077		Constant Gear 28 T	1				●					
8	<b>145.491</b>	1312 302 073	81 32301 0802	Constant Gear 34 T	1				●					
8	145.490	1312 302 074		Constant Gear 30 T	1				●					
9	<b>109.134</b>	1312 304 027	81 32425 0092	Synchronizer Cone	1		●	●						
10	<b>119.119</b>	1297 304 402	81 32420 0146	Synchronizer Ring	2	Old Type	●	●						
10	<b>119.167</b>	1297 304 484	81 32420 0230	Synchronizer Ring	2	New Type	●	●						
11	<b>102.234</b>	1313 202 013	81 32205 0222	Input shaft	1		●							
11		1313 202 016	81 32205 0225	Input Shaft	1		●							
11		1313 221 004	81 32205 0224	Input Shaft	1	NMV130 (Clutch PTO)	●							
11	102.244	1312 202 037	81 32205 0218	Input Shaft	1			●						
11	102.243	1312 202 039	81 32205 0219	Input shaft	1			●						
12		0635 470 012	06 32540 0118	Pin	1		●	●						
13	<b>156.140</b>	0732 040 409	81 97601 0895	Spring D.6,50x23,50	3		●	●						
14	<b>160.189</b>	1297 304 436	81 32510 0013	Pressure Piece	3		●	●						
15		1312 302 095	81 32562 0165	Tube	1		●	●						
16		0630 502 027		Ring	1		●	●						
17		0501 320 435	81 32313 0414	Diaphragm	1		●	●						
18	<b>154.135</b>	1310 304 202	81 32402 0197	Sliding Sleeve	1		●	●						
19	<b>109.133</b>	1312 304 056	81 32425 0093	Synchronizer Cone	1		●	●						
20		0730 062 781	81 90820 0429	Ring	1		●	●						
21		0730 107 023	81 32521 0146	Split Ring	1	S.5,00 mm	●	●						
21		0730 107 019	81 32521 0150	Split Ring	1	S.4,60 mm	●	●						
22	<b>137.150</b>	0750 117 232	81 93501 0080	Roller Cage D.42x40,30	1		●	●						
23		1315 304 051	81 32313 0108	Ring	1	S.8,30 mm	●	●						
24	<b>137.156</b>	0750 118 198	81 93420 0242	Roller Cage D.67x101x32	1		●							
25		0750 118 258	81 93420 0269	Roller Cage D.67x101x38	1			●						
26	<b>146.476</b>	1313 304 005	81 32301 0720	Gear 4th Speed 30 T	1			●						
26	146.442	1296 304 131		Gear 4th Speed 34 T	1			●						
26		1312 304 029		Gear 4th Speed 30T	1	(2)			●					
26	<b>146.425</b>	1312 304 032	81 32301 0799	Gear 4th Speed 30 T	1				●					
26	146.317	1312 304 031		Gear 4th Speed 34 T	1				●					
27	<b>109.134</b>	1312 304 027	81 32425 0092	Synchronizer Cone	2		●	●						

ECO II  
From 16S150  
To 16S220

## Notes

- (1) Only for input Shaft 1313 221 004  
 (2) 16S220 Special Version - Ratio 10,14-0,72. For this version to use :  
 4th Speed - Synchro Cone 1312 304 027 / 3rd Speed Synchro - Cone 1312 304 080  
 (#) Latest Synchro generation. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 70**  
 (©) Latest Synchro generation. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 71**

## Date

03 / 2006

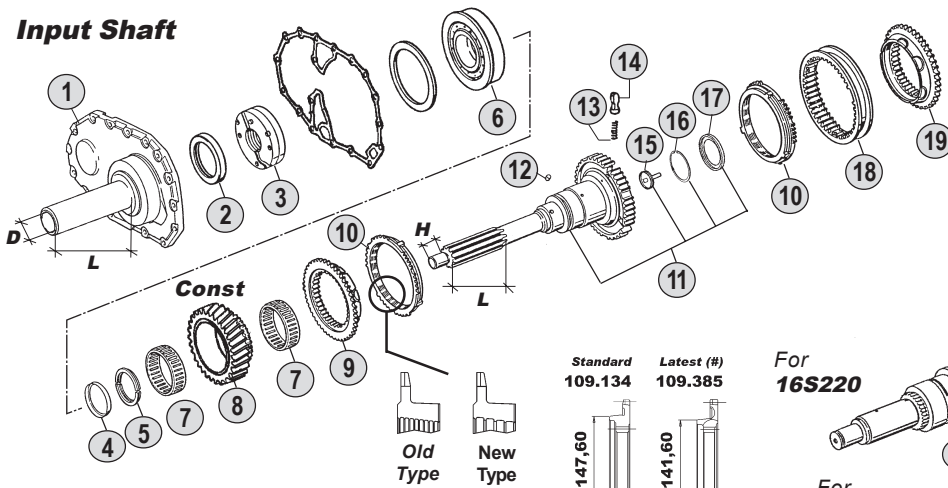
## Table

006 / A

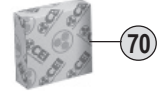
Suitable To : **ZF**

**16S150 - 16S220**

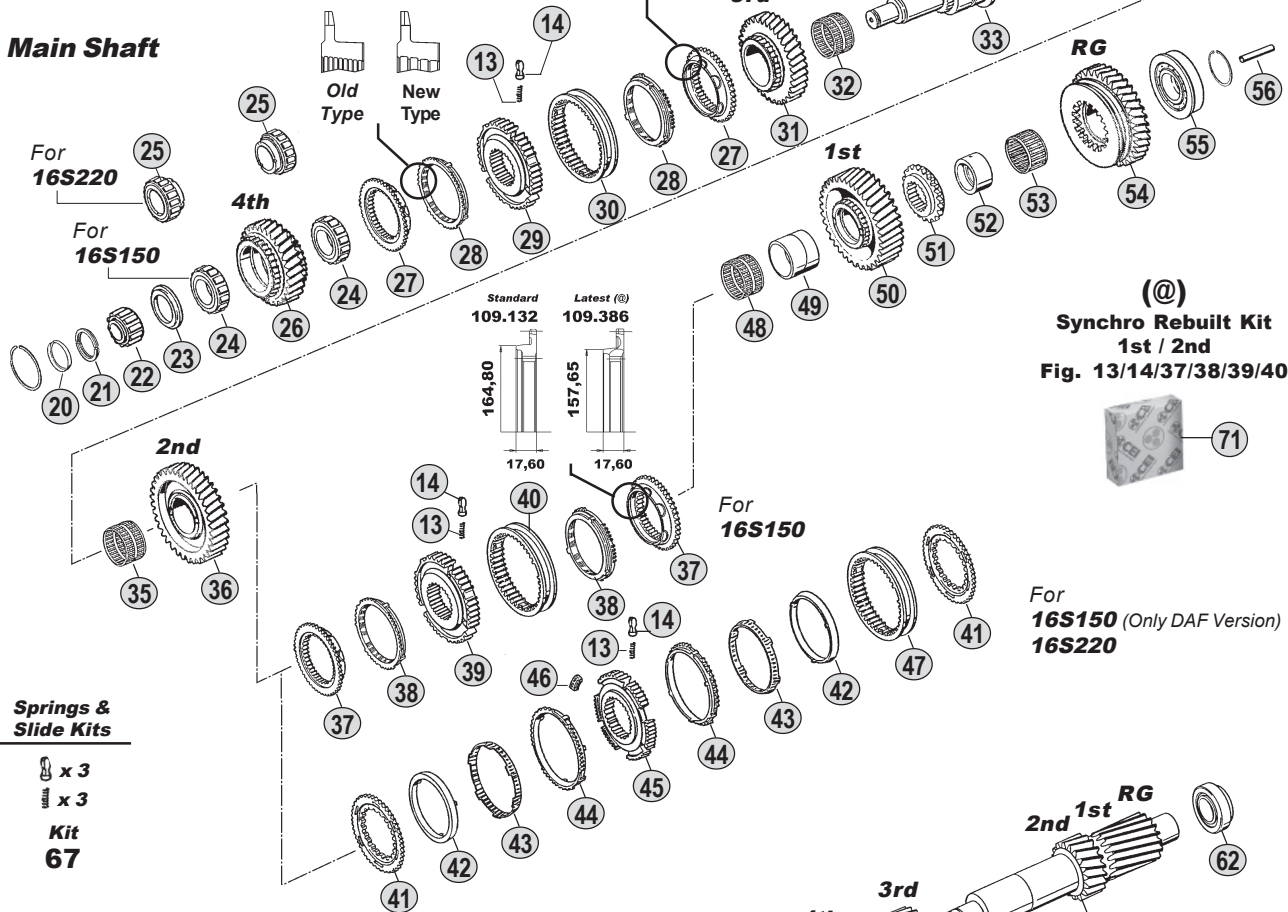
**Input Shaft**



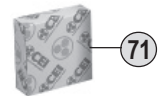
**(#)**  
**Synchro Rebuilt Kit**  
**4th / 3rd**  
**Fig. 13/14/27/28/29/30**



**Main Shaft**



**(@)**  
**Synchro Rebuilt Kit**  
**1st / 2nd**  
**Fig. 13/14/37/38/39/40**

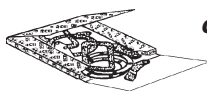


**For**  
**16S150 (Only DAF Version)**  
**16S220**

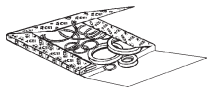
**Springs & Slide Kits**

- x 3
- x 3
- Kit**
- 67**

**Kits**

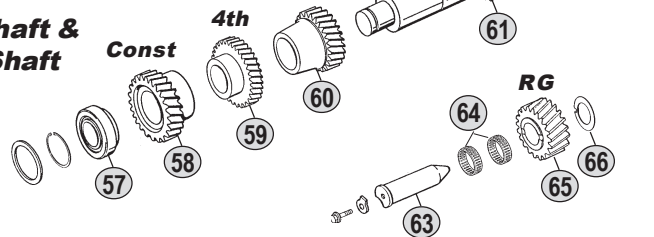


**Gasket Kit**  
**69**



**Oil Seal Kit**  
**68**

**Countershaft & Reverse Shaft**



**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A: 10,14 - 0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	M.A.N. no.					16S150 (1313)	16S220 (1312)				
27	109.385	1316 304 159		Synchronizer cone	2		(#)	●	●				
28	119.119	1297 304 402	81 32420 0146	Synchronizer Ring	2	Old Type		●	●				
28	119.167	1297 304 484	81 32420 0230	Synchronizer Ring	2	New Type		●	●				
28	119.217	1316 304 149		Synchronizer ring	2		(#)	●	●				
29	157.180	1312 304 052	81 32420 0151	Synchronizer Hub	1			●	●				
29	157.227	1316 304 162		Synchronizer hub	1		(#)	●	●				
30	154.135	1310 304 202	81 32402 0197	Sliding Sleeve	1			●	●				
30	154.357	1315 304 135		Sliding sleeve	1		(#)	●	●				
31	145.496	1313 304 080	81 32301 0808	Gear 3rd Speed 32 T	1		B	●					
31	145.526	1313 304 081		Gear 3rd Speed 34 T	1		C	●					
31		1312 304 075		Gear 3rd Speed 25 T	1	(2)	A		●				
31	145.498	1312 304 137	81 32301 0812	Gear 3rd Speed 32 T	1		B		●				
31	145.497	1312 304 136		Gear 3rd Speed 34 T	1		C		●				
32	137.137	0735 321 087	81 93402 0108	Needle Cage D.92x100x53	1			●					
32	137.112	0735 320 451	81 93402 0098	Needle Cage D.82x90x60	1		A		●				
32	137.138	0750 115 303	81 93402 0115	Needle Cage D.92x100x63	1		BC		●				
33	103.135	1315 304 130	81 32202 0103	Main Shaft	1			●					
34		1312 304 161		Main Shaft	1		A		●				
34	103.128	1316 304 130	81 32202 0107	Main Shaft	1		BC		●				
35	137.137	0735 321 087	81 93402 0108	Needle Cage D.92x100x53	1			●					
35	137.138	0750 115 303	81 93402 0115	Needle Cage D.92x100x63	1				●				
36	145.502	1313 304 078	81 32301 0807	Gear 2nd Speed 37 T	1		B	●					
36	145.527	1313 304 077		Gear 2nd Speed 38 T	1		C	●					
36		1312 304 142		Gear 2nd Speed	1		A		●				
36	145.504	1312 304 141	81 32301 0803	Gear 2nd Speed 37 T	1		B		●				
36	145.503	1312 304 139		Gear 2nd Speed 38 T	1		C		●				
37	109.132	1313 304 009	81 32425 0094	Synchronizer Cone	2			●					
37	109.386	1316 304 156		Synchronizer Cone	2		(@)	●					
38	119.122	1297 304 401	81 32420 0148	Synchronizer Ring	2	Old Type		●					
38	119.166	1297 304 485	81 32420 0241	Synchronizer Ring	2	New Type		●					
38	119.218	1316 304 150		Synchronizer Ring	2		(@)	●					
39	157.189	1313 304 008	81 32420 0149	Synchronizer Hub	1			●					
39	157.228	1316 304 163		Synchronizer Hub	1		(@)	●					
40	154.202	1316 304 078	81 32402 0189	Sliding Sleeve	1			●					
40	154.358	1315 304 136		Sliding Sleeve	1		(@)	●					
41		1312 304 092		Synchronizer Cone	2		A		●				
41	109.176	1312 304 106	81 32425 0103	Synchronizer Cone	2		BC		●				
42	119.152	1268 304 424	81 32420 0163	Intermediate Ring	2			●					
43	119.153	1268 304 494	81 30120 0051	Intermediate Cone	2			●					
44	119.144	1268 304 525	81 32420 0161	Synchronizer Ring	2			●					
45	157.181	1312 304 158	81 32420 0181	Synchronizer Hub	1			●					
46	156.176	1312 304 159	81 38108 0005	Pad	3			●					
47	154.190	1310 304 175	81 32402 0191	Sliding Sleeve	1			●					
48	137.160	0750 115 325	81 93402 0109	Needle Cage D.96x104x55	1			●					
48		0750 115 304		Needle Cage D.92x100x72	1		A		●				

**ECO II**  
From 16S150  
To 16S220

## Notes

- (1) Only for input Shaft 1313 221 004  
 (2) 16S220 Special Version - Ratio 10,14-0,72. For this version to use :  
 4th Speed - Synchro Cone 1312 304 027 / 3rd Speed Synchro - Cone 1312 304 080  
 (#) Latest Synchro generation. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 70**  
 (@) Latest Synchro generation. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 71**

## Date

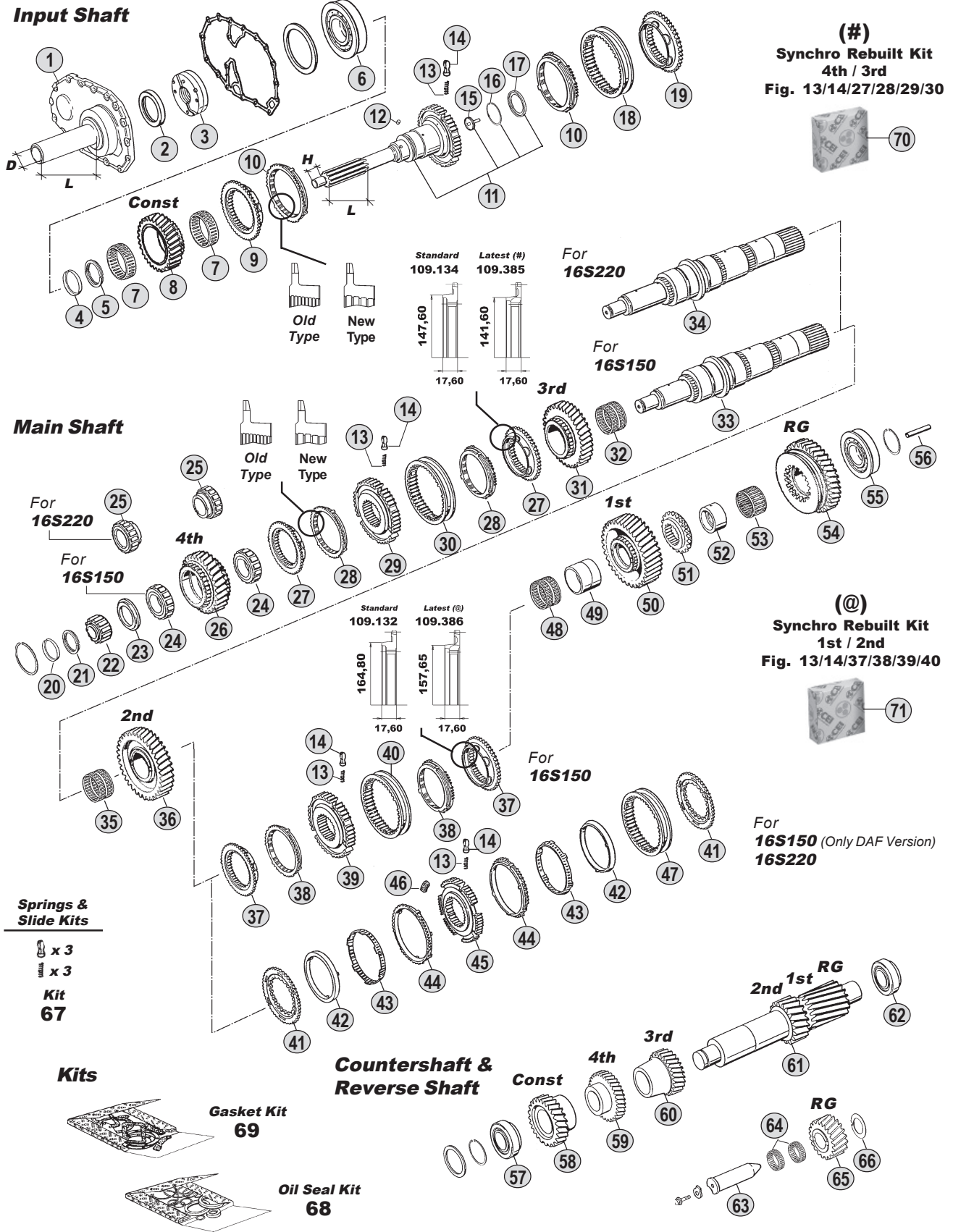
03 / 2006

## Table

006 / A

Suitable To : **ZF**

**16S150 - 16S220**



**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	M.A.N. no.					16S150 (1313)	16S220 (1312)			
48	137.151	0750 115 327	81 93402 0116	Needle Cage D.96x104x72	1		BC	●				
49	117.294	1313 304 038	81 93021 0106	Bush	1			●				
49		1312 304 008		Bush	1		A	●				
49	117.310	1312 304 084	81 93021 0143	Bush D.85x96x72	1		BC	●				
50	145.508	1313 304 039	81 32301 0717	Gear 1st Speed 44 T	1		B	●				
50	145.528	1313 304 070		Gear 1st Speed	1		C	●				
50		1312 304 077		Gear 1st Speed 34 T	1		A	●				
50	145.509	1312 304 086	81 32301 0796	Gear 1st Speed 44 T	1		B	●				
50	145.510	1312 304 085		Gear 1st Speed 47 T	1		C	●				
51	109.177	1313 304 037	81 32425 0095	Engaging Ring	1			●				
51		1312 304 037		Engaging Ring	1		A	●				
51	109.181	1312 304 083	81 32425 0101	Engaging Ring	1		BC	●				
52	117.293	1315 304 132	81 93021 0383	Bush	1			●				
52		1312 304 011		Bush	1		A	●				
52	117.311	1316 304 133	81 93021 0388	Bush D.80x90x50	1		BC	●				
53	137.162	0750 115 324	81 93402 0110	Roller Cage D.90x98x41	1			●				
53		0735 321 103		Roller Cage D.77x85x50	1		A	●				
53	137.140	0750 115 326	81 93402 0117	Roller Cage D.90x98x50	1		BC	●				
54	147.137	1313 304 042	81 32301 0718	Reverse Gear 39 T	1		B	●				
54	147.147	1313 304 041		Reverse Gear 38 T	1		C	●				
54		1312 304 078		Reverse Gear 39 T	1		A	●				
54	147.141	1312 304 088	81 32301 0797	Reverse Gear 39 T	1		B	●				
54	147.139	1312 304 087		Reverse Gear 38 T	1		C	●				
55	130.309	0750 117 677	81 93420 0312	Bearing D.80x130x36	1			●				
55		0750 117 233		Bearing D.65x140x36,5	1		A	●				
55	130.304	0750 117 678	06 32499 0191	Bearing D.80x140x36,50	1		BC	●				
56	188.209	1312 304 150	81 32562 0146	Oil Tube	1			●	●			
57	130.242	0750 117 010	81 93420 0132	Bearing D.50,80x100x35	1			●				
57	130.308	0750 117 009	81 93420 0187	Bearing D.49,2x103,1x43,6	1			●				
58	146.475	1313 303 004	81 32301 0715	Constant Gear 37 T	1		B	●				
58	146.443	1296 303 037		Constant Gear 39 T	1		C	●				
58		1312 303 003		Constant Gear 34 T	1		A	●				
58	146.411	1312 303 006	81 32301 0792	Constant Gear 37 T	1		B	●				
58	146.412	1312 303 005		Constant Gear 39 T	1		C	●				
59	146.414	1313 303 003	81 32301 0714	Gear 4th Speed 39 T	1		B	●				
59	146.444	1296 303 036		Gear 4th Speed 37 T	1		C	●				
59		1312 303 014		Gear 4th Speed 31 T	1		A	●				
59	146.417	1312 303 017	81 32301 0793	Gear 4th Speed 39 T	1		B	●				
59	146.418	1312 303 016		Gear 4th Speed 37 T	1		C	●				
60	146.420	1313 303 002	81 32301 0713	Gear 3rd Speed 28 T	1		B	●				
60	146.445	1296 303 035		Gear 3rd Speed 26 T	1		C	●				
60		1312 303 036		Gear 3rd Speed 36 T	1		A	●				
60	146.423	1312 303 020	81 32301 0794	Gear 3rd Speed 28 T	1		B	●				
60	146.424	1312 303 021		Gear 3rd Speed 26 T	1		C	●				
61	105.106	1313 303 010	81 32206 0073	Countershaft 19-23 T	1		B	●				

## Notes

- (1) Only for input Shaft 1313 221 004  
 (2) 16S220 Special Version - Ratio 10,14-0,72. For this version to use :  
 4th Speed - Synchro Cone 1312 304 027 / 3rd Speed Synchro - Cone 1312 304 080  
 (#) Latest Synchro generation. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 70**  
 (©) Latest Synchro generation. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 71**

## Date

03 / 2006

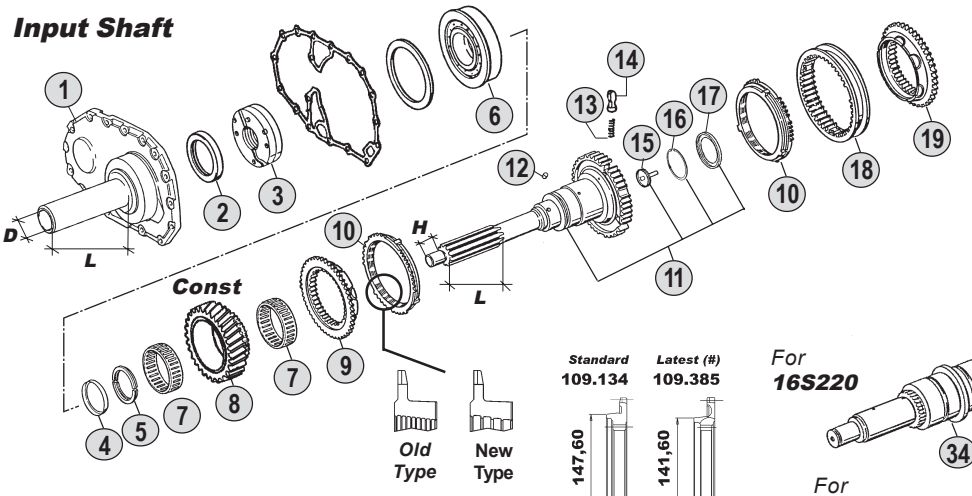
## Table

006 / A

Suitable To : **ZF**

**16S150 - 16S220**

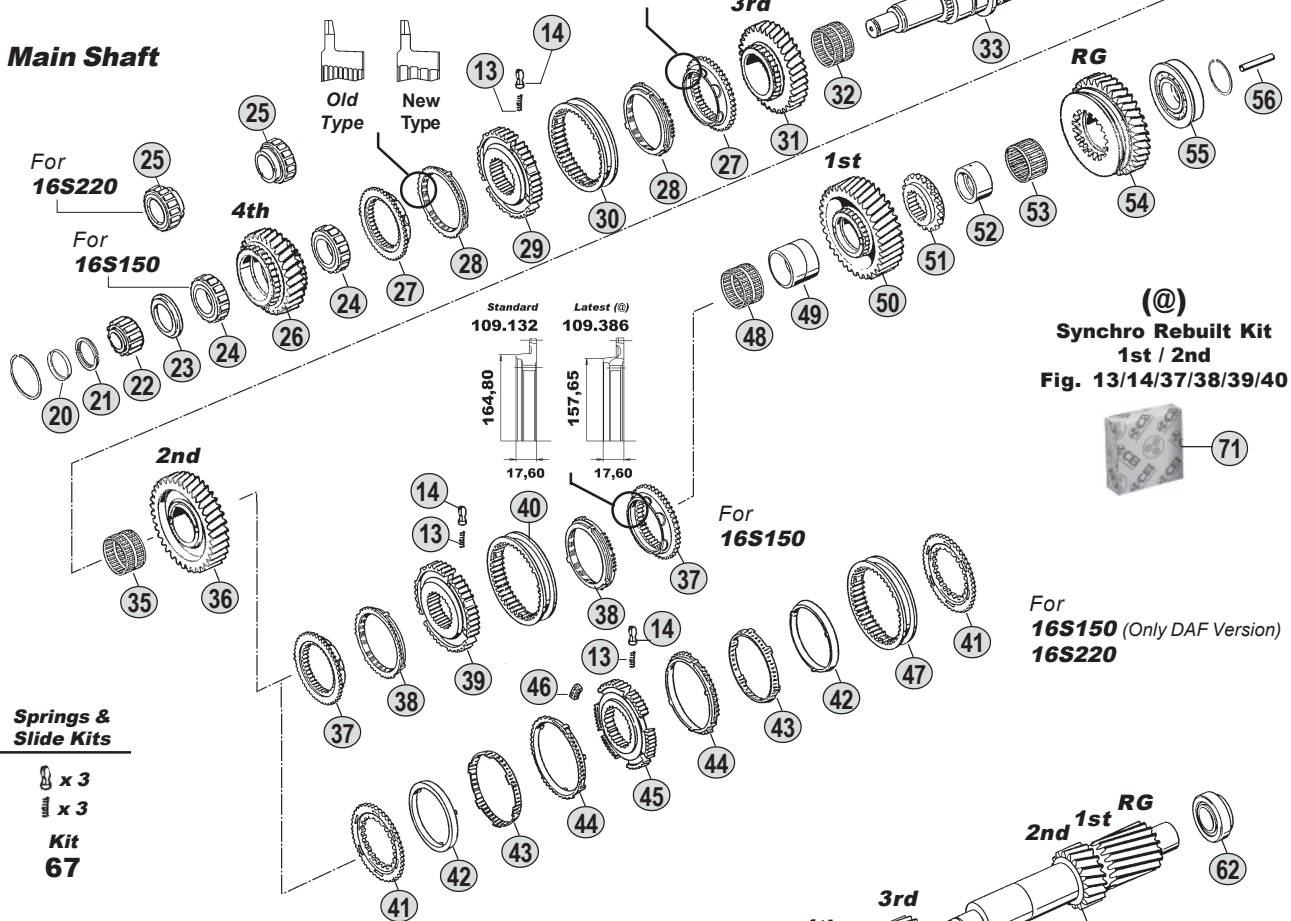
**Input Shaft**



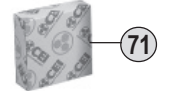
**(#)**  
Synchro Rebuilt Kit  
4th / 3rd  
Fig. 13/14/27/28/29/30



**Main Shaft**



**(@)**  
Synchro Rebuilt Kit  
1st / 2nd  
Fig. 13/14/37/38/39/40



For  
**16S150 (Only DAF Version)**  
**16S220**

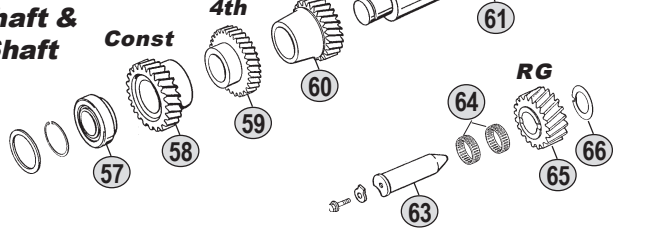
**Springs & Slide Kits**

x 3  
 x 3  
**Kit 67**

**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A: 10,14 - 0,72	B: 13,80 - 0,84	C: 16,47 - 1,00



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16S150 (1313)  
16S220 (1312)

ECO II

From 16S150  
To 16S220All original equipment manufacturers numbers, symbols, pictures, models and description used in this catalogue are for reference only, and it is not implied that any part listed is the product of these manufactures.  
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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	M.A.N. no.					16S150 (1313)	16S220 (1312)			
61	105.113	1313 303 011		Countershaft 17-20 T	1		C	●				
61		1312 303 037		Countershaft 20-24 T	1		A	●				
61	105.107	1312 303 009	81 32206 0080	Countershaft 19-23 T	1		B	●				
61	105.108	1312 303 008		Countershaft 17-20 T	1		C	●				
62	130.307	0750 117 011	81 93420 0134	Bearing D.50,8x104,7x39,6	1			●				
62	130.308	0750 117 009	81 93420 0187	Bearing D.49,2x103,1x43,6	1			●				
63	107.108	1295 305 056	81 32317 0032	Reverse Gear Pin	1			●	●			
64	137.007	0750 115 011	81 93402 0066	Needle Cage D.45x53x21	2			●				
64	137.154	0750 115 255	81 93402 0113	Needle Cage D.45x53x25	2			●				
65	147.132	1313 305 002	81 32315 0047	Reverse Gear 21 T	1		B	●				
65	147.148	1313 305 001		Reverse Gear 24 T	1		C	●				
65		1312 305 003		Reverse Gear 21 T	1		A	●				
65	147.135	1297 305 012	81 32315 0050	Reverse Gear 21 T	1		B	●				
65	147.134	1297 305 011		Reverse Gear 24 T	1		C	●				
66	169.234	0730 150 064	81 32312 0153	Thrust Washer	1			●	●			
67	198.843	CEI 198843		Spring Slide Set	1			●	●			
68		1312 298 902	81 32900 6016	Oil Seal Kit	1			●	●			
69	198.427	1295 298 915	81 32900 6008	Gasket Kit	1			●	●			
70	298.021	1315 298 061		Synchro kit 4th/3rd Speed	1	(#)		●	●			
71	298.020	1315 298 060		Synchro kit 1st/2nd Speed	1	(@)		●				

## Notes

- (1) Only for input Shaft 1313 221 004  
(2) 16S220 Special Version - Ratio 10,14-0,72. For this version to use :  
4th Speed - Synchro Cone 1312 304 027 / 3rd Speed Synchro - Cone 1312 304 080  
(#) Latest Synchro generation. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 70**  
(@) Latest Synchro generation. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 71**

## Date

03 / 2006

## Table

006 / A

Suitable To : **ZF**

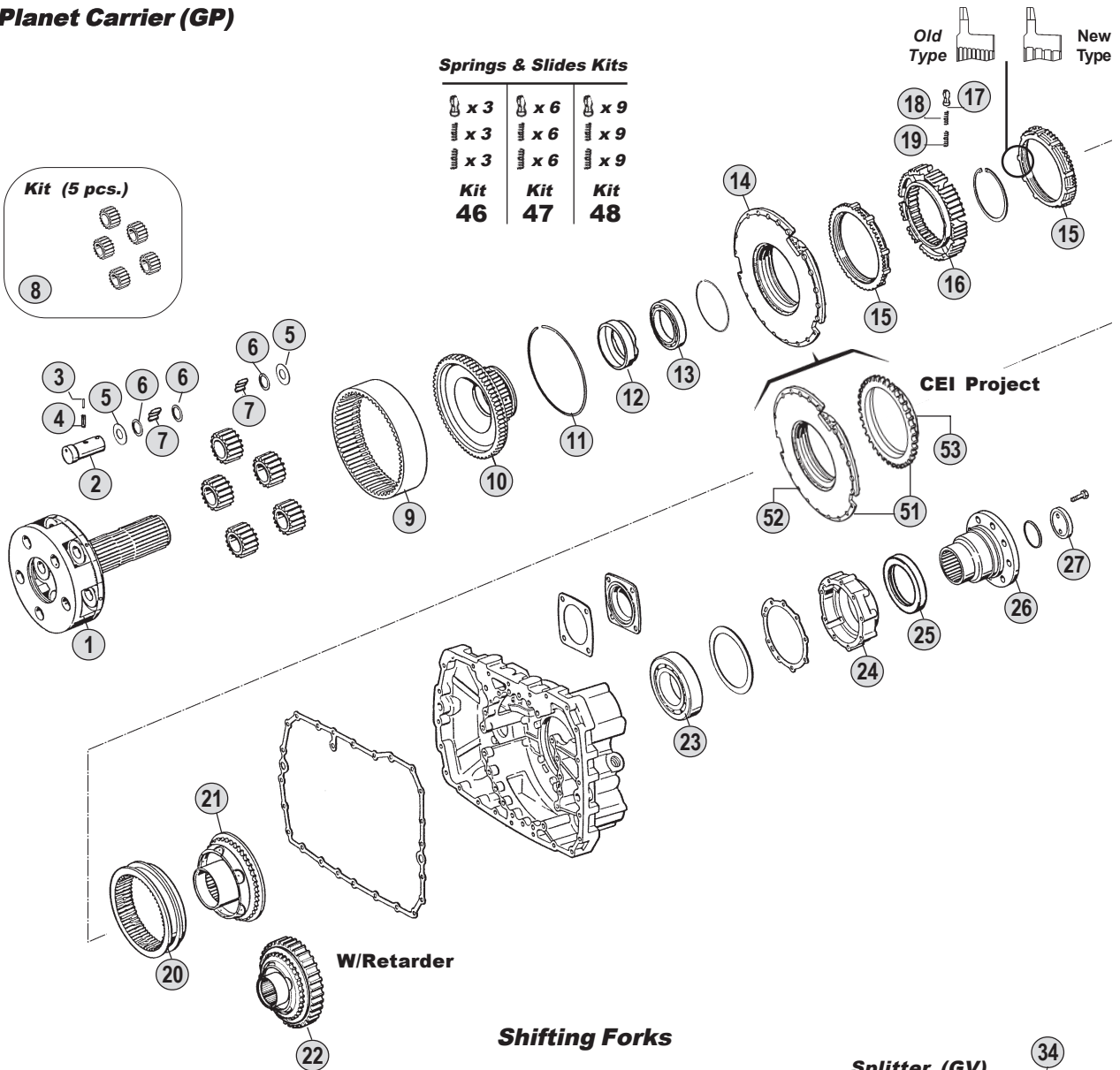
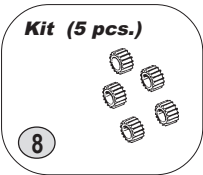
**16S150 - 16S220**

**Planet Carrier (GP)**

**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

Old Type New Type



**Kits**

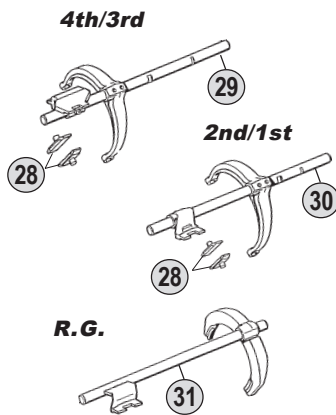


**Gasket Kit 50**

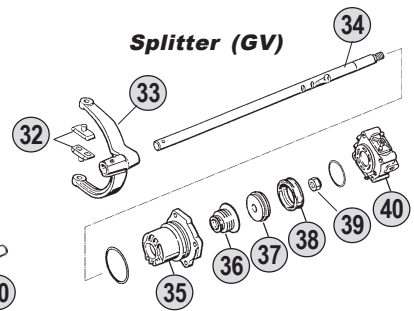


**Oil Seal Kit 49**

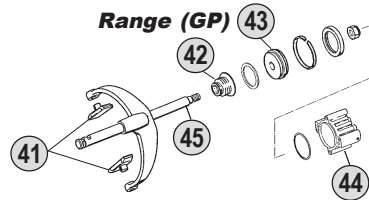
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	M.A.N. no.					16S150 (1313)	16S220 (1312)			
1	190.393	1296 232 002	81 32403 0086	Planetary Carrier	1			●				
1		1312 232 016		Planetary Carrier	1		A		●			
1	190.392	1316 232 006		Planetary Carrier	1		BC		●			
2	107.164	1296 332 005	81 32523 0155	Planet Shaft	5			●				
2	107.163	1297 332 109	81 32523 0111	Planet Shaft	5		A		●			
2	107.165	1312 332 026	81 32523 0160	Planet Shaft	5		BC		●			
3	160.195	0631 329 167	06 22120 0513	Lock Pin D.3x26	5			●	●			
4	160.194	0631 329 051	06 22120 0913	Lock Pin D.5x26	5			●	●			
5	169.759	0501 308 981	81 32313 0123	Thrust Washer	10			●				
5	169.753	0501 306 212	81 32312 0707	Thrust Washer D.29x64x1,5	10		A		●			
5	169.759	0501 308 981	81 32313 0123	Thrust Washer	10		BC		●			
6	169.744	0730 107 168	81 32313 0114	Spacer Ring	15			●				
6	<b>169.410</b>	0730 103 846	81 90712 0495	Spacer Ring D.29x39x1,00	15		A		●			
6	169.744	0730 107 168	81 32313 0114	Spacer Ring	15		BC		●			
7	171.046	0735 470 164	81 93403 0021	Roller D.10x15	140			●				
7	171.062	0750 119 116	81 93403 0023	Roller D.10x16,8	120		A		●			
7	171.062	0750 119 116	81 93403 0023	Roller D.10x16,8	140		BC		●			
8	198.800	1313 232 003	81 32301 6011	Planetary Gear Set (5 pcs)	1			●				
8	198.803	1297 232 023	81 32301 6003	Planetary Gear Set (5 pcs)	1		A		●			
8	198.801	1312 232 014	81 37505 6009	Planetary Gear Set (5 pcs)	1		BC		●			
9	123.208	1295 332 086	81 32301 0604	Crown Gear 86 T	1			●				
9	123.217	1297 332 080	81 32301 0691	Crown Gear 83 T	1		A		●			
9	123.208	1295 332 086	81 32301 0604	Crown Gear 86 T	1		BC		●			
10	150.133	1313 332 020	81 32403 0087	Flange Gear 86 T	1			●				
10		1297 332 108		Flange Gear 83 T	1		A		●			
10	150.134	1297 332 120	81 37511 0007	Flange Gear 86 T	1		BC		●			
11	111.198	0730 505 056	81 90820 0371	Locking Wire	1			●				
11	111.129	0730 505 055	81 90820 0284	Locking Wire	1		A		●			
11	111.198	0730 505 056	81 90820 0371	Locking Wire	1		BC		●			
12		1297 332 002	81 32312 0708	Ring	1			●				
13	130.310	0750 116 165	81 93410 0083	Bearing D.80x110x16	1			●				
13	130.311	0635 338 035		Bearing D.100x125x13	1				●			
14	<b>198.358</b>	1296 233 006	81 32425 0073	Synchronizer Cone	1			●	●			
15	<b>119.085</b>	1296 333 022	81 32420 0096	Synchronizer Ring	2	Old Type		●	●			
15	<b>119.172</b>	1296 333 045	81 32420 0236	Synchronizer Ring	2	New Type		●	●			
16	<b>157.182</b>	1313 333 001	81 32420 0152	Synchronizer Hub	1			●				
16	<b>157.183</b>	1297 333 115	81 32420 0159	Synchronizer Hub	1				●			
17	<b>160.116</b>	1240 304 278	81 32510 0005	Pressure Piece	9			●	●			
18	<b>156.036</b>	0732 040 386	81 97601 0758	Inner Spring De.3x34	9			●	●			
19	<b>156.037</b>	0732 040 385	81 97601 0757	Outer Spring De.6x34	9			●	●			
20	<b>154.098</b>	1296 333 023	81 32402 0111	Sliding Sleeve	1			●	●			
21	<b>198.374</b>	1313 233 001	81 32425 0083	Synchronizer Cone (38 Spl.)	1			●				
21	<b>198.790</b>	1297 233 056	81 32425 0100	Synchronizer Cone (41 Spl.)	1				●			
22		1297 333 118	81 32301 0809	Synchronizer Cone	1	With Retarder		●				
22		1312 333 014	81 32301 0874	Synchronizer Cone	1	With Retarder		●				

## Notes

- (4) Only Pneumatic Version  
 (5) To be coupled Together  
 (6) To be coupled Together

## Date

03 / 2006

## Table

006 / B

Suitable To : **ZF**

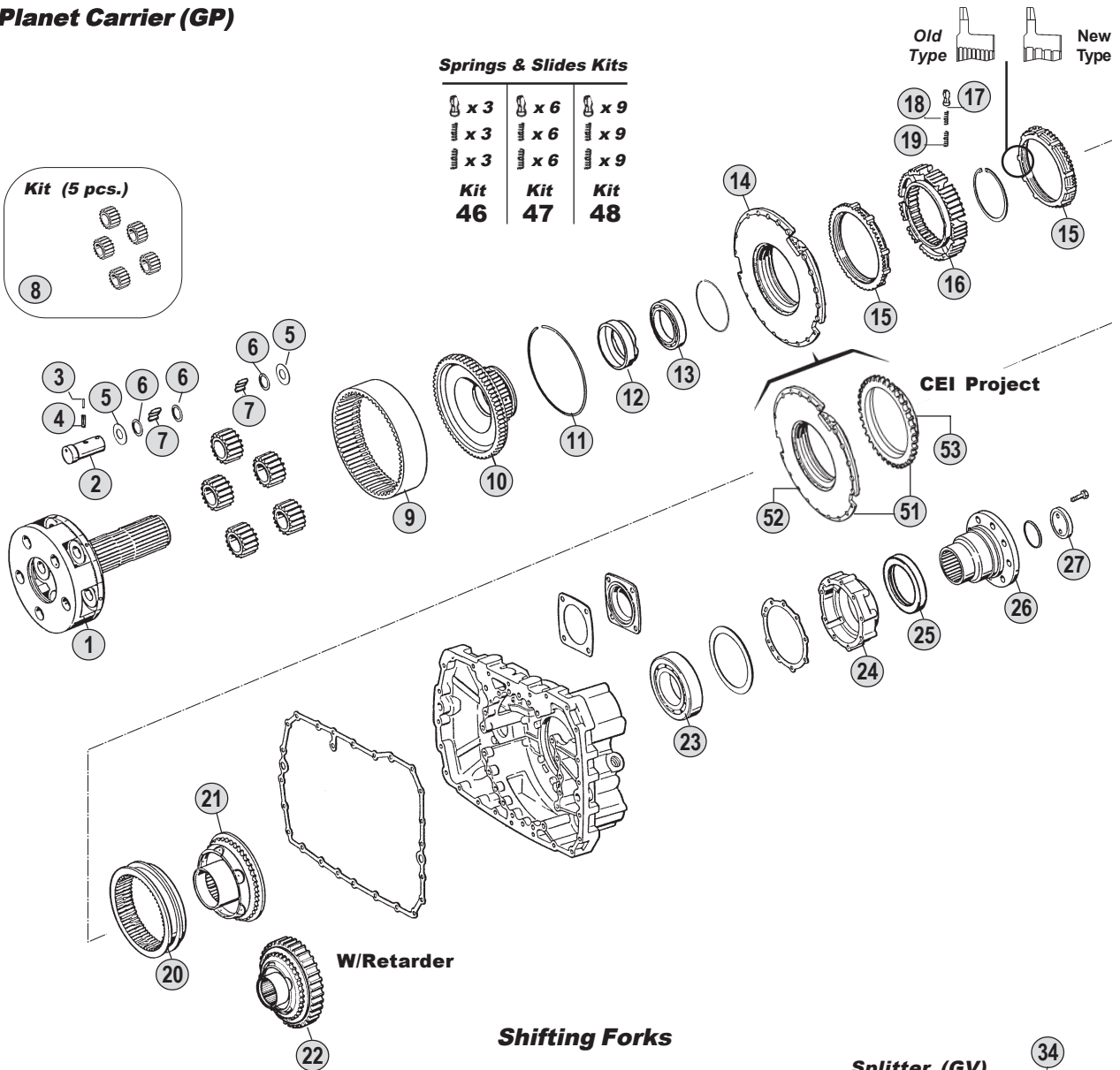
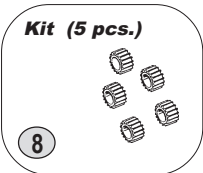
**16S150 - 16S220**

**Planet Carrier (GP)**

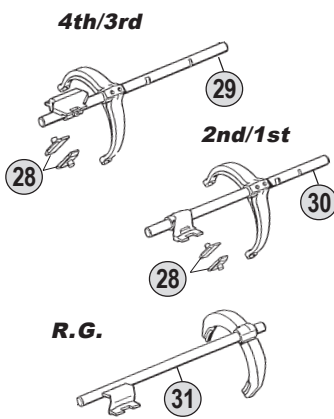
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

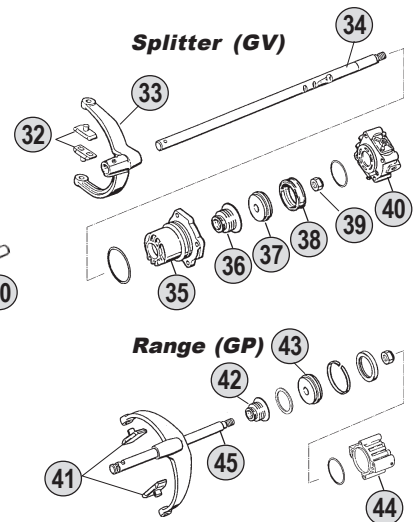
Old Type New Type



**Shifting Forks**



**Splitter (GV)**



**Kits**



**Gasket Kit 50**



**Oil Seal Kit 49**

**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	M.A.N. no.					16S150 (1313)	16S220 (1312)				
23	130.245	0750 116 002	81 93410 0046	Bearing D.90x160x30	1			●	●				
24	128.098	1315 301 220	81 32106 0152	Cover	1			●	●				
25		0750 111 341	81 96503 0236	Oil Seal 105x130x12	1			●	●				
26		1313 338 002	81 39115 0255	Output Flange	1	D.180-4H.		●					
26		1313 338 011		Output Flange	1	D.204-4H.		●					
26		1297 333 110	81 39115 0289	Output Flange	1	D.180-4H.			●				
27	188.077	1295 332 051	81 32312 0820	Stop Washer	1			●					
27		1312 332 028	81 90713 0154	Stop Washer	1				●				
28	141.163	1297 306 120	81 32526 0031	Slide	2			●	●				
29		1313 206 002	81 32518 0154	Fork	1			●					
29		1313 206 005	81 32518 0157	Fork	1			●					
29		1313 206 011		Fork	1	(4)		●					
29		1312 206 025	81 32518 0172	Fork	1				●				
29		1312 206 026	81 32518 0197	Fork	1				●				
29		1312 206 045		Fork	1	(4)			●				
30		1313 206 001	81 32518 0174	Fork	1			●					
30		1313 206 004	81 32518 0178	Fork	1			●					
30		1313 206 031		Fork	1	(4)		●					
30		1312 206 013	81 32518 0169	Fork	1				●				
30		1312 206 017	81 32518 0196	Fork	1				●				
30		1312 206 043		Fork	1	(4)			●				
31		1313 206 015	81 32518 0167	Fork	1			●					
31		1313 206 016		Fork	1			●					
31		1313 206 026		Fork	1	(4)		●					
31		1312 206 027	81 32518 0168	Fork	1				●				
31		1312 206 028	81 32518 0198	Fork	1				●				
31		1312 206 033		Fork	1	(4)			●				
32	141.163	1297 306 120	81 32526 0031	Slide	2			●	●				
33		1313 312 002	81 32516 0119	Fork	1			●	●				
34		1312 312 002	81 32518 0156	Rod	1			●					
34		1312 312 001	81 32518 0170	Rod	1				●				
35	132.046	1296 312 042	81 32638 0005	Cylinder	1			●	●				
36	139.331	0750 112 034	81 96401 0148	Cap Collar D.25x38x14,2	1			●	●				
37		1312 312 003	81 32639 0032	Piston	1			●	●				
37		1312 312 015		Piston	1	(4)		●	●				
38		0750 112 089	81 96503 0019	Ring 53x63x16,2	1			●	●				
38		0750 112 048	81 96503 0095	Ring 53x63x5	1	(4)		●	●				
39		0737 006 095	81 90501 0188	Nut	1			●	●				
40		0750 132 032	81 52170 6091	Cylinder	1			●	●				
40		0750 132 033	81 52170 6095	Cylinder	1			●	●				
41	141.085	1296 334 004	81 32526 0026	Bronze Slide	2			●	●				
42	139.331	0750 112 034	81 96401 0148	Cap Collar D.25x38x14,2	1			●	●				
43	189.422	1296 334 039	81 32639 0019	Piston	1	(5)		●	●				
43		1297 334 056	81 32639 0031	Piston	1	(6)		●	●				
44	132.047	1295 334 075	81 32638 0006	Cylinder	1	(5)		●	●				

## Notes

- (4) Only Pneumatic Version  
(5) To be coupled Together  
(6) To be coupled Together

## Date

03 / 2006

## Table

006 / B

Suitable To : **ZF**

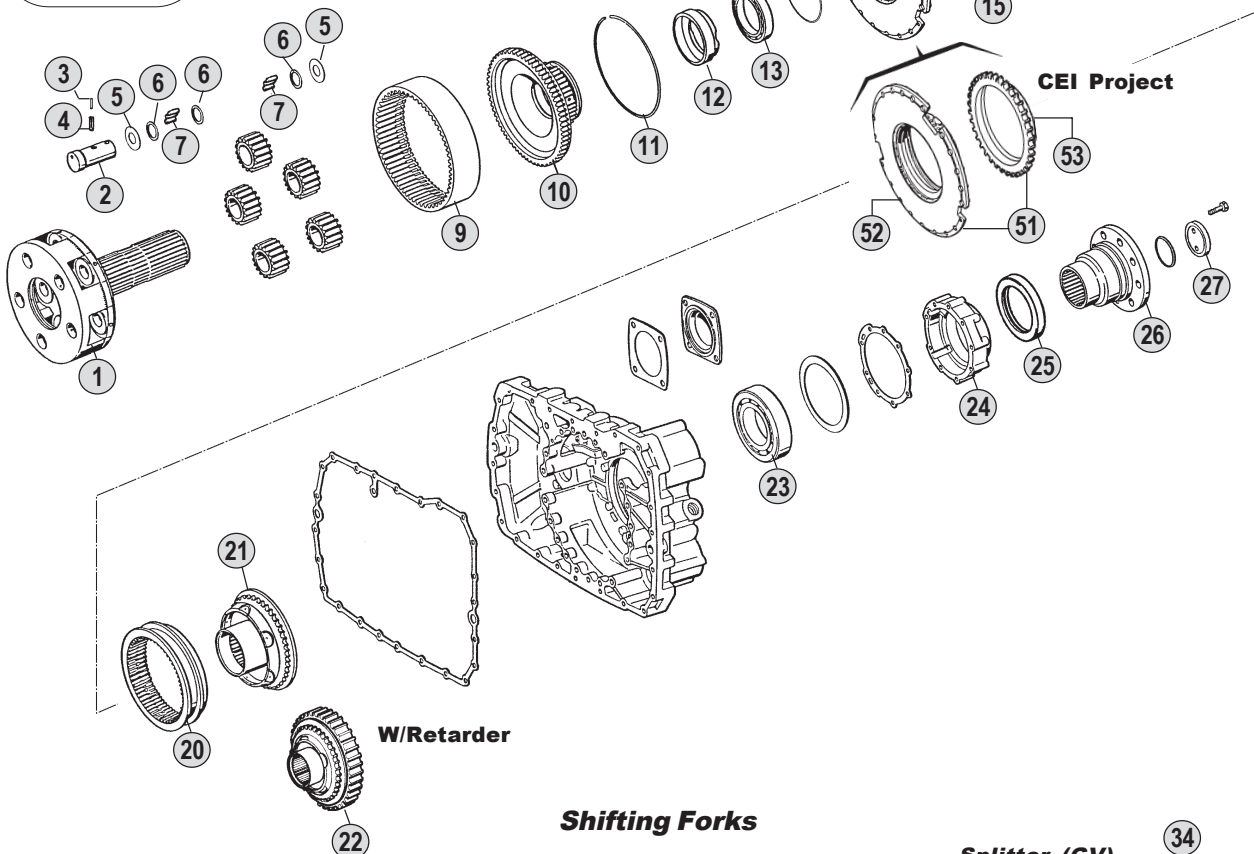
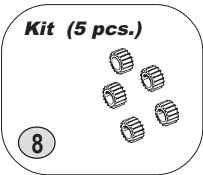
**16S150 - 16S220**

**Planet Carrier (GP)**

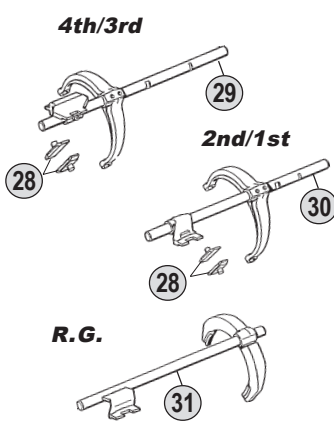
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

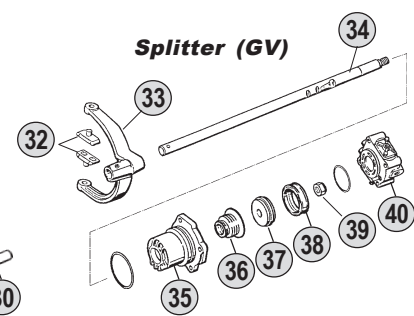
Old Type New Type



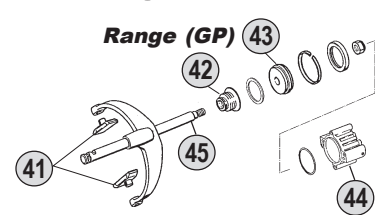
**Shifting Forks**



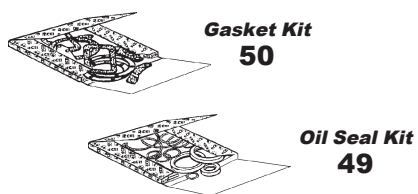
**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	16S150 (1313) 16S220 (1312)				
		ZF no.	M.A.N. no.									
44		1297 334 055	81 32638 0014	Cylinder	1	(6)	●	●				
45		1313 234 011	81 32518 0190	Fork	1		●	●				
45		1313 234 012		Fork	1	(4)	●	●				
45	149.171	1312 234 002	81 32518 6042	Fork Lever	1			●				
45		1312 234 004		Fork	1	(4)		●				
46	198.339	1268 298 938		Spring Slide Set	1		●	●				
47	198.564	CEI 198564		Spring Slide Set	1		●	●				
48	198.842	1295 298 933		Spring Slide Set	1		●	●				
49		1312 298 902	81 32900 6016	Oil Seal Kit	1		●	●				
50	198.427	1295 298 915	81 32900 6008	Gasket Kit	1		●	●				
51	198.856	CEI 198856		Synchronizer cone kit	1	Can repl. fig. 14	●	●				
52	135.128	CEI 135128		Saddle Plate	1	Use with fig. 53	●	●				
53	109.174	1296 333 050	81 32425 0141	Synchronizer Cone	1	Use with fig. 52	●	●				

ECO II

From 16S150  
To 16S220

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## Notes

- (4) Only Pneumatic Version
- (5) To be coupled Together
- (6) To be coupled Together

## Date

03 / 2006

## Table

006 / B





suitable to :

**Z.F.****EcoSplit III****From 16S151 to 16S221****Planetary Gear with STRAIGHT TEETH****Application**

	16S151 (1315)	16S221 (1316)		
<b>MERCEDES</b>				
<b>M.A.N.</b>				
<b>IVECO</b>				
<b>R.V.I.</b>				
<b>DAF</b>				
<b>VOLVO</b>				

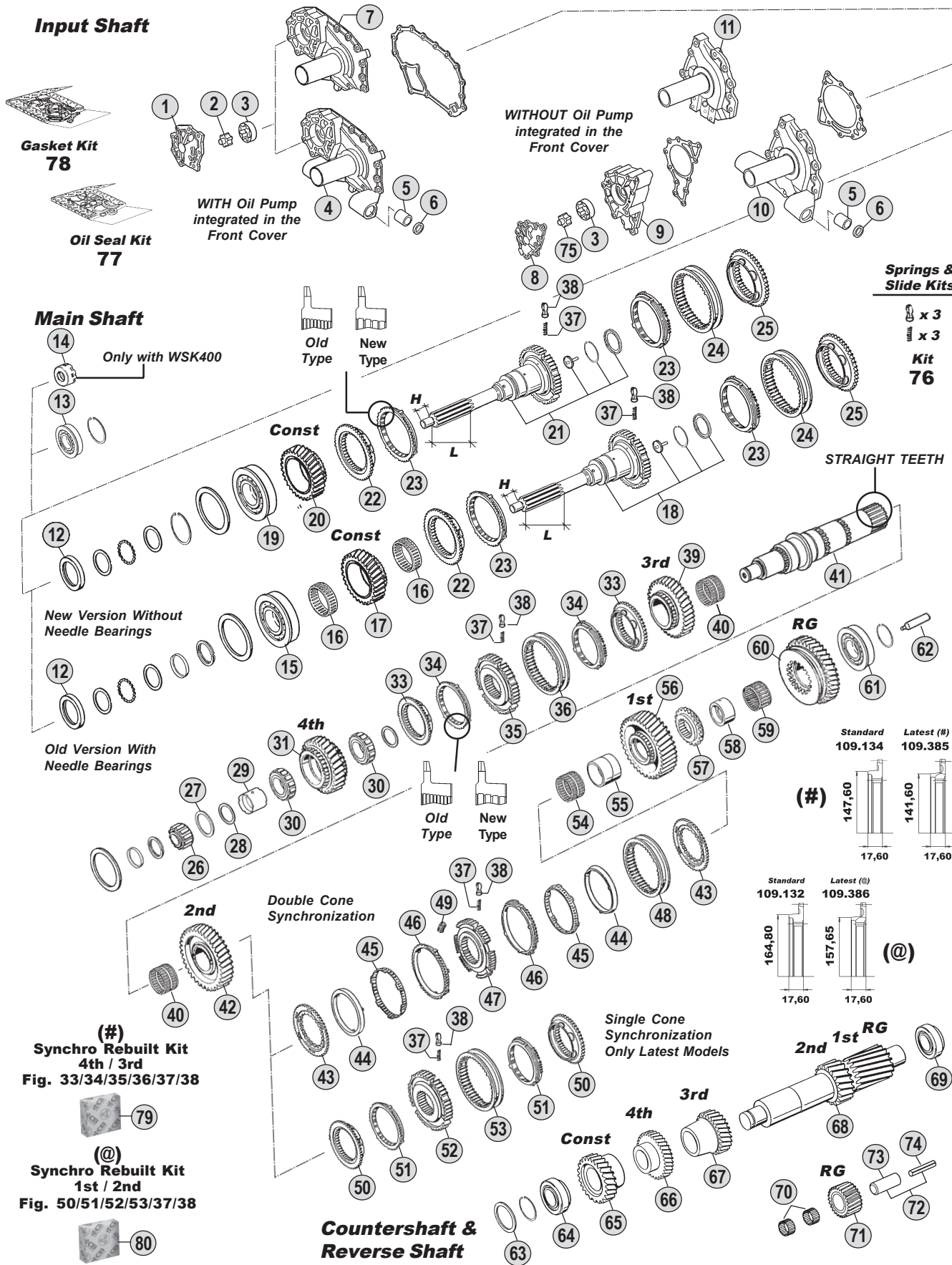
**Ratios**

	R.13,80-0,84 <b>A</b>	R.13,85-0,84 <b>B</b>	R.13,86-0,84 <b>C</b>	R.16,47-1,00 <b>D</b>	R.16,53-1,00 <b>E</b>
<b>16S151</b>					
<b>16S221</b>					

**ECO III**  
 From 16S151  
 To 16S221

Suitable To : **ZF**

**16S151 - 16S221**



**Ratios**

16S151	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
16S221	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	M.A.N. no.										
1		1315 302 013	81 38521 0002	Cover	1			●	●				
2		1315 202 014	81 33208 0023	Rotor	1			●	●				
3		1315 303 027	81 33223 0010	Oil Pump Housing	1			●	●				
4		1315 302 057	81 32240 0035	Front Cover	1			●	●				
5		0730 260 398	81 93021 0330	Bush	4			●	●				
6		0501 312 738	81 96503 0293	Oil Seal 30x37x4	4			●	●				
7		1315 302 045	81 32240 0012	Front Cover	1			●	●				
7		1315 302 047		Front Cover	1			●	●				
8		1315 302 120	81 38521 0004	Cover	1			●	●				
9		1315 302 121	81 38520 0003	Housing	1			●	●				
10		1315 202 055		Front Cover	1			●	●				
10		1315 202 058		Front Cover	1			●	●				
10		1315 202 061	81 32240 6000	Front Cover	1			●	●				
10		1315 202 065		Front Cover	1			●	●				
10		1315 202 060	81 32240 0020	Front Cover	1	With WSK400		●	●				
11		1315 302 075		Front Cover	1			●	●				
11		1315 302 136	81 32240 0021	Front Cover	1			●	●				
12		0734 310 386	81 96503 0342	Oil Seal 55x75x8	1			●	●				
12		0734 310 104	81 96502 0403	Oil Seal 52x68x8	1	(1)		●	●				
12		0734 319 514	81 96503 0319	Oil Seal 52x72x8	1	(2)		●	●				
13		0635 450 098	06 32739 0002	Bearing 52x90x33	1	(2)		●	●				
14		4130 309 063	81 32310 0001	Disk	1	(1)		●	●				
15	<b>130.306</b>	0750 117 431	81 93420 0252	Bearing D.75x150x30,50	1	(3-4-5)		●	●				
16	<b>137.133</b>	0735 321 437	81 93402 0139	Needle Cage D.93x101x25	2	(3)		●					
16	<b>137.148</b>	0750 115 310	81 93402 0107	Needle Cage D.93x101x25	2	(4)		●					
16	<b>137.134</b>	0735 321 438	82 93402 0023	Needle Cage D.93x101x32,50	1	(5)			●				
17	<b>145.524</b>	1315 302 008	81 32301 0854	Constant Gear 34 T	1	(3)	B	●					
17	<b>145.451</b>	1315 302 007		Constant Gear 30 T	1	(4)	DE	●					
17	<b>145.472</b>	1316 302 001		Constant Gear 30 T	1	(5)	D		●				
18	<b>190.309</b>	1315 202 022	81 32205 0244	Input Shaft	1	L=125 H=32		●					
18	<b>190.296</b>	1315 202 012		Input Shaft	1			●					
18	<b>190.297</b>	1316 202 005		Input Shaft	1				●				
19	<b>130.518</b>	0750 117 732	81 93420 0329	Bearing D.85x150x30,50	1			●	●				
20	<b>145.513</b>	1315 302 173	81 32302 0027	Constant Gear 34 T	1		A	●					
20	<b>145.556</b>	1315 302 158	81 32302 0051	Constant Gear 35 T	1		C	●					
20	<b>145.553</b>	1315 302 157	81 32302 0046	Constant Gear 30 T	1		D	●					
20	<b>145.487</b>	1316 302 065	85 32301 0001	Constant Gear 34 T	1		A		●				
20	<b>145.554</b>	1316 302 067	81 32302 0031	Constant Gear 35 T	1		C		●				
20	<b>145.483</b>	1316 302 066	81 32302 0047	Constant Gear 30 T	1		D		●				
21	<b>190.304</b>	1315 202 037	81 32205 0267	Input Shaft	1	L=125 H=31,5		●					
21	<b>190.315</b>	1315 202 040		Input Shaft	1	L=102 H=32		●					
21		1315 202 048	81 32205 0260	Input Shaft	1	With WSK400		●					
21	<b>190.317</b>	1315 221 002		Input Shaft	1	NMV221 (Clutch PTO)		●					
21	<b>190.303</b>	1316 202 025	85 32205 0001	Input Shaft	1	L=134 H=32			●				
21	<b>190.300</b>	1316 202 026		Input Shaft	1				●				

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model **WITH** integrated Oil Pump  
 (10) For model **WITHOUT** integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc. Fig. 74 (\*) New Models only. **DO NO MIX** Single Cone S. with Double Cone S.  
 (14) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (15) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

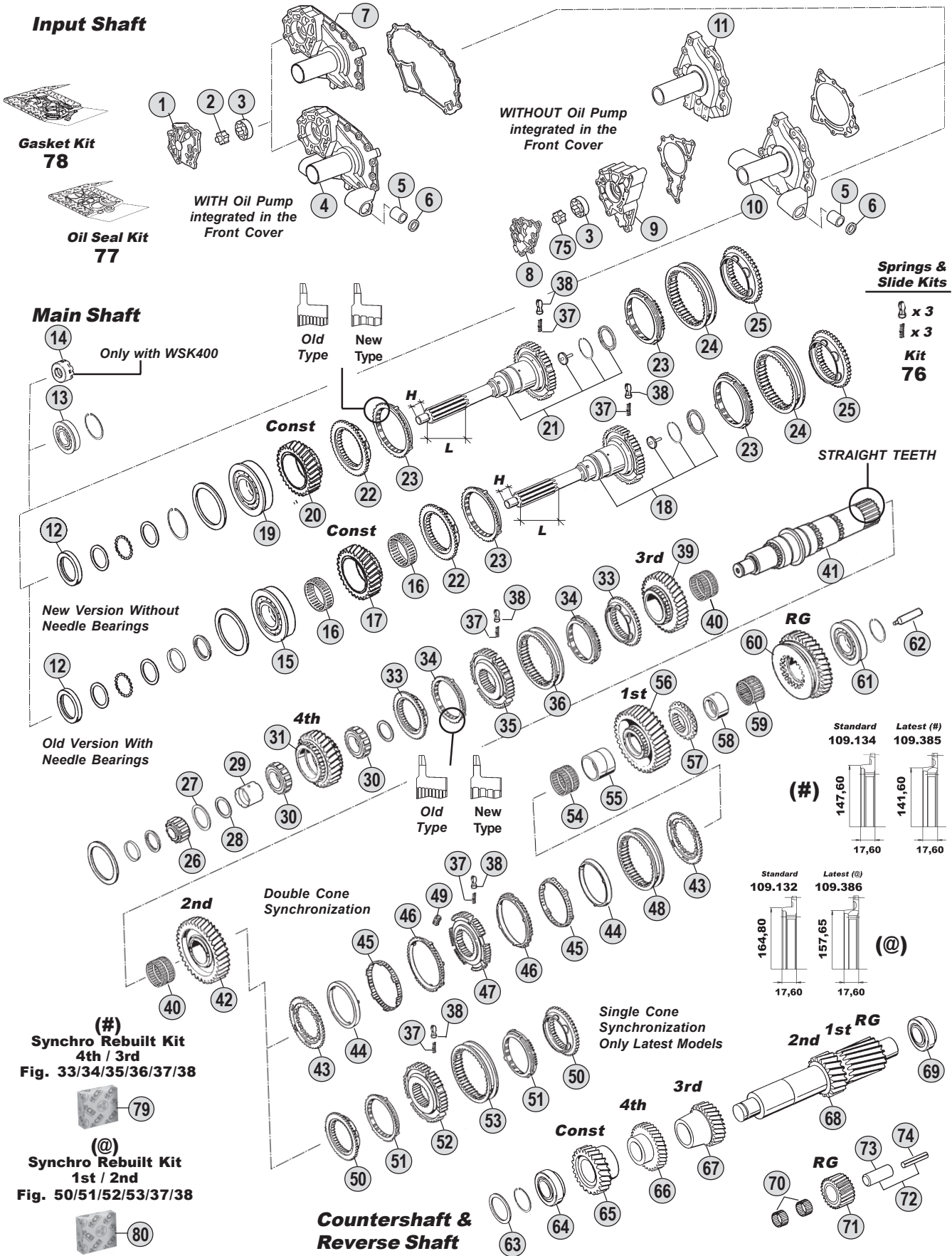
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## Table

007 / A

Suitable To: **ZF**

**16S151 - 16S221**



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**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E:-



Fig.	O.E.M. Reference			Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.	M.A.N. no.					16S151 (1315)	16S221 (1316)			
21	190.310	1316 202 033		Input Shaft	1	L=63 H=46,5/WSK400		●				
21		1316 202 038		Input Shaft	1			●				
21		1316 221 017		Input Shaft	1	NMV221 (Clutch PTO)		●				
22	109.134	1312 304 027	81 32425 0092	Synchronizer Cone	1			●	●			
23	119.119	1297 304 402	81 32420 0146	Synchronizer Ring	2	Old Type		●	●			
23	119.167	1297 304 484	81 32420 0230	Synchronizer Ring	2	New Type		●	●			
24	154.135	1310 304 202	81 32402 0197	Sliding Sleeve	1			●	●			
25	109.133	1312 304 056	81 32425 0093	Synchronizer Cone	1			●	●			
26	137.150	0750 117 232	81 93501 0080	Roller Cage D.42x40,30	1			●	●			
27		1315 304 048	81 32313 0302	Ring	1	S.8,00 mm		●	●			
27		1315 304 043	81 32313 0263	Ring	1	S.7,50 mm		●	●			
28	169.776	0750 101 158	81 32313 0322	Thrust Washer 81,5x5	2	(6)		●	●			
29	117.321	0750 119 125	81 37260 0007	Bush 67x77x54,1	1	(6)		●				
29	117.320	0750 119 124	81 37260 0006	Bush D.67x77x66,10	1	(6)		●				
30	137.164	0750 115 534	81 93404 0062	Roller Cage 77x101x29	2	(6)		●				
30	137.156	0750 118 198	81 93420 0242	Roller Cage D.67x101x32	2	(3-4)		●				
30	137.136	0750 115 531	81 93404 0061	Roller Cage D.77x101x29	2	(6)		●				
30		0750 118 258	81 93420 0269	Roller Cage D.67x101x38	2	(5)		●				
31	146.431	1315 304 017	81 32301 0860	Gear 4th Speed 30 T	1		AB	●				
31	146.320	1315 304 089	81 32302 0059	Gear 4th Speed 32 T	1		CDE	●				
31	145.729	1315 304 010		Gear 4th Speed	1	Old (7)	D	●				
31	146.410	1316 304 007	81 32301 0869	Gear 4th Speed 30 T	1		A	●				
31	146.401	1316 304 103	81 32302 0035	Gear 4th Speed 32 T	1		CD	●				
31	145.730	1316 304 006		Gear 4th Speed	1	Old (8)	D	●				
33	109.134	1312 304 027	81 32425 0092	Synchronizer Cone	2			●	●			
33	109.385	1316 304 159		Synchronizer Cone	2		(#)	●	●			
34	119.119	1297 304 402	81 32420 0146	Synchronizer Ring	2	Old Type		●	●			
34	119.167	1297 304 484	81 32420 0230	Synchronizer Ring	2	New Type		●	●			
34	119.217	1316 304 149		Synchronizer Ring	2		(#)	●	●			
35	157.180	1312 304 052	81 32420 0151	Synchronizer Hub	1			●	●			
35	157.227	1316 304 162		Synchronizer Hub	1		(#)	●	●			
36	154.135	1310 304 202	81 32402 0197	Sliding Sleeve	1			●	●			
36	154.357	1315 304 135		Sliding Sleeve	1		(#)	●	●			
37	156.140	0732 040 409	81 97601 0895	Spring D.6,50x23,50	3			●	●			
38	160.189	1297 304 436	81 32510 0013	Pressure Piece	3			●	●			
39	145.514	1315 304 028	81 32301 0862	Gear 3rd Speed 32 T	1		AB	●				
39	145.456	1315 304 027	81 32302 0058	Gear 3rd Speed 34 T	1		CDE	●				
39	145.488	1316 304 009	81 32301 0870	Gear 3rd Speed 32 T	1		A	●				
39	145.473	1316 304 008	81 32302 0080	Gear 3rd Speed 34 T	1		CD	●				
40	137.137	0735 321 087	81 93402 0108	Needle Cage D.92x100x53	2			●				
40	137.138	0750 115 303	81 93402 0115	Needle Cage D.92x100x63	2			●				
41	103.135	1315 304 130	81 32202 0103	Main Shaft	1		ACD	●				
41	103.127	1315 304 029	81 32202 0074	Main Shaft	1		BE	●				
41	103.128	1316 304 130	81 32202 0107	Main Shaft	1			●				
42	145.455	1315 304 026	81 32301 0861	Gear 2nd Speed 37 T	1		AB	●				

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model WITH integrated Oil Pump  
 (10) For model WITHOUT integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc. fig. 74 (\*) New Models only. Do NO MIX Single Cone S. with Double Cone S.  
 (14) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 79  
 (15) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 80

## Date

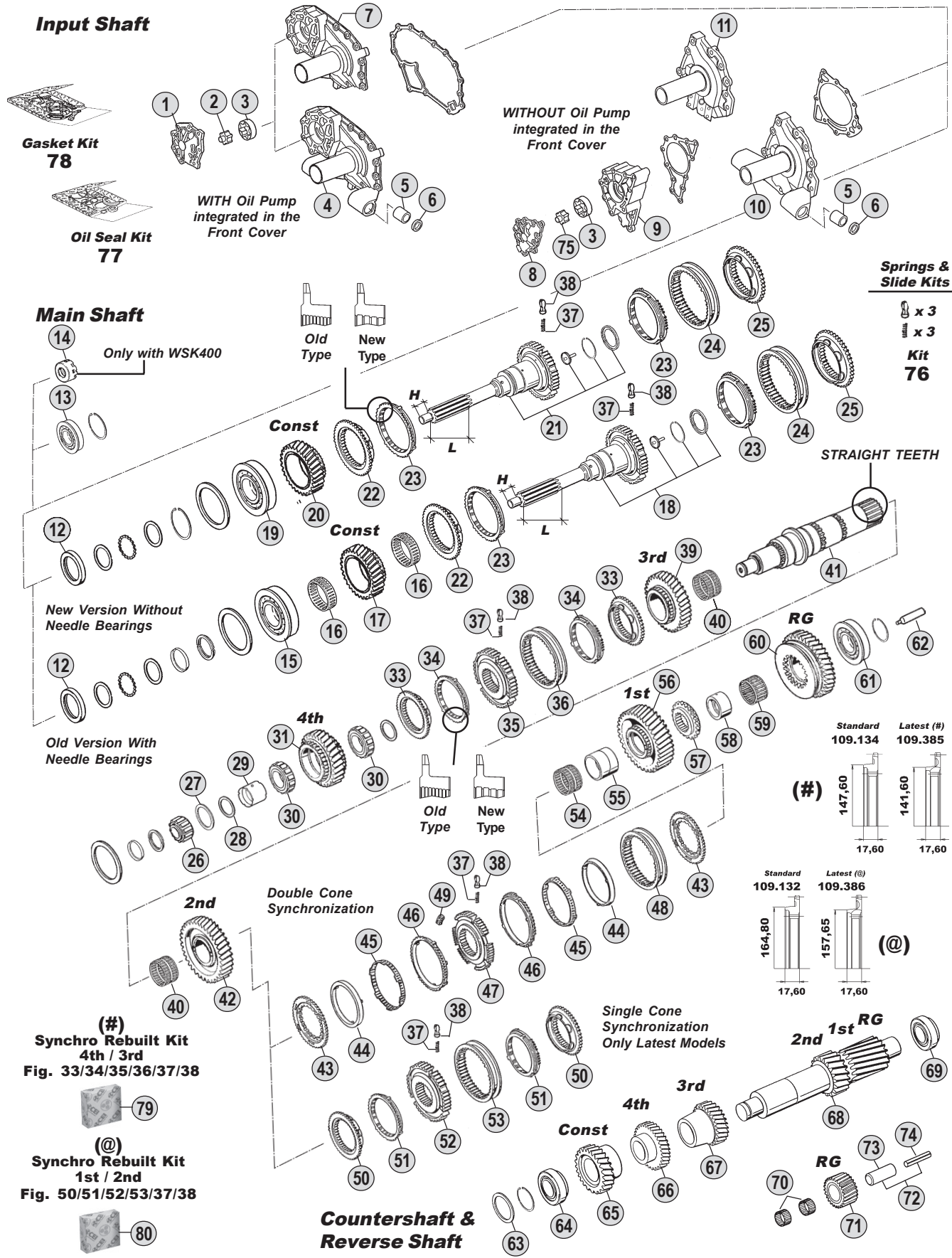
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## Table

007 / A

Suitable To: **ZF**

**16S151 - 16S221**



(#)  
**Synchro Rebuild Kit**  
 4th / 3rd  
 Fig. 33/34/35/36/37/38  
 79

(@)  
**Synchro Rebuild Kit**  
 1st / 2nd  
 Fig. 50/51/52/53/37/38  
 80

Ratios

<b>16S151</b>	<b>A: 13,80-0,84</b>	<b>B: 13,85-0,84</b>	<b>C: 13,86-0,84</b>	<b>D: 16,47-1,00</b>	<b>E: 16,53-1,00</b>
<b>16S221</b>	<b>A: 13,80-0,84</b>	<b>B: --</b>	<b>C: 13,86-0,84</b>	<b>D: 16,47-1,00</b>	<b>E: -</b>

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	M.A.N. no.											
42	145.454	1315 304 025	81 32302 0055	Gear 2nd Speed 38 T	1		CDE	●						
42	145.515	1316 304 003	81 32301 0868	Gear 2nd Speed 37 T	1		A		●					
42	145.474	1316 304 002	81 32302 0071	Gear 2nd Speed 38 T	1		CD		●					
43	109.176	1312 304 106	81 32425 0103	Synchronizer Cone	2			●	●					
44	119.152	1268 304 424	81 32420 0163	Intermediate Ring	2			●	●					
45	119.153	1268 304 494	81 30120 0051	Intermediate Cone	2			●	●					
46	119.144	1268 304 525	81 32420 0161	Synchronizer Ring	2			●	●					
47	157.181	1312 304 158	81 32420 0181	Synchronizer Hub	1			●	●					
48	154.190	1310 304 175	81 32402 0191	Sliding Sleeve	1			●	●					
49	156.176	1312 304 159	81 38108 0005	Pad	3			●	●					
50	109.132	1313 304 009	81 32425 0094	Synchronizer Cone	2	(*)		●	●					
50	109.386	1316 304 156		Synchronizer Cone	2		(@)	●	●					
51	119.122	1297 304 401	81 32420 0148	Synchronizer Ring	2	(*) Old Type		●	●					
51	119.166	1297 304 485	81 32420 0241	Synchronizer Ring	2	(*) New Type		●	●					
51	119.218	1316 304 150		Synchronizer Ring	2		(@)	●	●					
52	157.189	1313 304 008	81 32420 0149	Synchronizer Hub	1	(*)		●	●					
52	157.228	1316 304 163		Synchronizer Hub	1		(@)	●	●					
53	154.202	1316 304 078	81 32402 0189	Sliding Sleeve	1	(*)		●	●					
53	154.358	1315 304 136		Sliding Sleeve	1		(@)	●	●					
54	137.160	0750 115 325	81 93402 0109	Needle Cage D.96x104x55	1			●						
54	137.151	0750 115 327	81 93402 0116	Needle Cage D.96x104x72	1				●					
55	117.294	1313 304 038	81 93021 0106	Bush	1			●						
55	117.310	1312 304 084	81 93021 0143	Bush D.85x96x72	1				●					
56	145.453	1315 304 014	81 32301 0859	Gear 1st Speed 44 T	1		AB	●						
56	145.452	1315 304 004	81 32302 0056	Gear 1st Speed 47 T	1		CDE	●						
56	145.522	1316 304 013	81 32301 0871	Gear 1st Speed 44 T	1		A		●					
56	145.475	1316 304 010	81 32302 0034	Gear 1st Speed 47 T	1		CD		●					
57	109.144	1315 304 018	81 32425 0114	Engaging Ring	1			●						
57	109.163	1312 304 124	81 32425 0117	Engaging Ring	1				●					
58	117.293	1315 304 132	81 93021 0383	Bush	1			●						
58	117.311	1316 304 133	81 93021 0388	Bush D.80x90x50	1				●					
59	137.162	0750 115 324	81 93402 0110	Roller Cage D.90x98x41	1			●						
59	137.140	0750 115 326	81 93402 0117	Roller Cage D.90x98x50	1				●					
60	147.124	1315 304 013	81 32301 0858	Reverse Gear 42 T	1		AB	●						
60	147.123	1315 304 006	81 32302 0057	Reverse Gear 44 T	1		CDE	●						
60	147.144	1316 304 015	81 32301 0872	Reverse Gear 42 T	1		A		●					
60	147.128	1316 304 012	81 32301 0994	Reverse Gear 44 T	1		CD		●					
61	130.309	0750 117 677	81 93420 0312	Bearing D.80x130x36	1			●						
61	130.304	0750 117 678	06 32499 0191	Bearing D.80x140x36,50	1				●					
62	188.209	1312 304 150	81 32562 0146	Oil Tube	1			●	●					
63		0730 102 099	81 90711 0742	Washer	1	S.3,00 mm (9)		●						
63		0730 102 072	81 90711 0762	Washer	1	S.2,0 mm (9)		●						
63		0730 106 917	81 32313 0197	Washer	1	S.3,00 mm (10)		●						
63		0730 101 471	81 32313 0177	Washer	1	S.2,00 mm (10)		●						
63		0730 106 917	81 32313 0197	Washer	1	S.3,00 mm		●						

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model WITH integrated Oil Pump  
 (10) For model WITHOUT integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc fig. 74  
 (\*) New Models only. Do NO MIX Single Cone S. with Double Cone S.  
 @) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 79  
 @) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 80

## Date

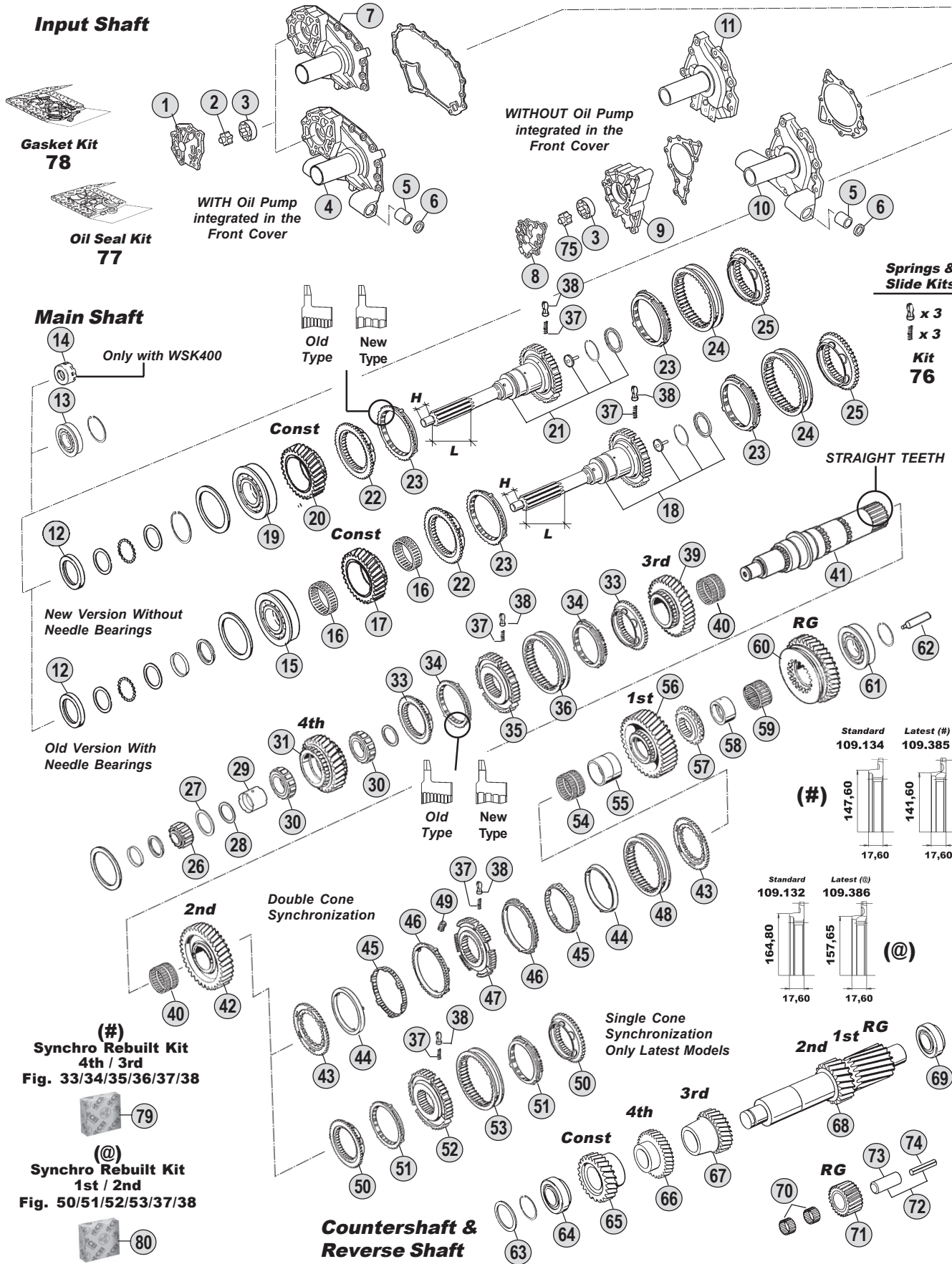
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## Table

007 / A

Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -





Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	M.A.N. no.									
63		0730 101 471	81 32313 0177	Washer	1	S.2,00 mm		●				
64	130.242	0750 117 010	81 93420 0132	Bearing D.50,80x100x35	1	(9)		●				
64	130.308	0750 117 009	81 93420 0187	Bearing D.49,2x103,1x43,6	1	(10)		●				
64	130.308	0750 117 009	81 93420 0187	Bearing D.49,2x103,1x43,6	1			●				
65	146.427	1315 303 052	81 32302 0002	Constant Gear 37 T	1		AB	●				
65	146.473	1315 303 051	81 32302 0053	Constant Gear 32 T	1		C	●				
65	146.367	1315 303 008		Constant Gear 39 T	1		DE	●				
65	146.407	1316 303 031	81 32301 0935	Constant Gear 37 T	1		A	●				
65	146.428	1316 303 002	81 32301 0865	Constant Gear 37 T	1	Old (11)	A	●				
65	146.469	1316 303 064	81 32302 0032	Constant Gear 32 T	1		C	●				
65	146.486	1316 303 030	81 32302 0079	Constant Gear 39 T	1		D	●				
65	146.388	1316 303 001		Constant Gear 39 T	1	Old (12)	D	●				
66	146.429	1315 303 046	81 32301 0856	Gear 4th Speed 39 T	1		AB	●				
66	146.474	1315 303 050	81 32302 0054	Gear 4th Speed 35 T	1		CDE	●				
66	146.389	1315 303 006		Gear 4th Speed 37 T	1	Old (7)	D	●				
66	146.408	1316 303 004	81 32301 0866	Gear 4th Speed 39 T	1		A	●				
66	146.426	1316 303 065	81 32302 0033	Gear 4th Speed 35 T	1		CD	●				
66	146.390	1316 303 003		Gear 4th Speed 37 T	1	Old (8)	D	●				
67	146.368	1315 303 010	81 32301 0855	Gear 3rd Speed 28 T	1		AB	●				
67	146.365	1315 303 004	81 32302 0052	Gear 3rd Speed 26 T	1		CDE	●				
67	146.409	1316 303 006	81 32301 0867	Gear 3rd Speed 28 T	1		A	●				
67	146.391	1316 303 005	81 32302 0078	Gear 3rd Speed 26 T	1		CD	●				
68	105.112	1315 303 048	81 32206 0095	Countershaft 19-23 T	1	(9)	AB	●				
68	105.095	1315 303 049	81 32206 0119	Countershaft 17-20 T	1	(9)	DE	●				
68	105.109	1315 303 041	81 32206 0106	Countershaft 19-23 T	1	(10)	A	●				
68	105.124	1315 303 042	81 32206 0129	Countershaft 17-20 T	1	(10)	CD	●				
68	105.103	1316 303 034	81 32206 0107	Countershaft 19-23 T	1		A	●				
68	105.110	1316 303 053	81 32206 0121	Countershaft 19-23 T	1	(11)	A	●				
68	105.100	1316 303 033	81 32206 0130	Countershaft 17-20 T	1		CD	●				
68	105.096	1316 303 052	81 32206 0120	Countershaft 17-20 T	1	(12)	D	●				
69	130.307	0750 117 011	81 93420 0134	Bearing D.50,8x104,7x39,6	1			●				
69	130.308	0750 117 009	81 93420 0187	Bearing D.49,2x103,1x43,6	1			●				
70	137.135	0750 115 366	81 93402 0127	Needle Cage D.45x57x21	2			●				
70	137.149	0750 115 369	81 93402 0128	Needle Cage D.45x57x25	2			●				
71	147.142	1315 305 005	81 32315 0054	Reverse Gear 20 T	1		AB	●				
71	147.126	1315 305 002	81 32315 0060	Reverse Gear 22 T	1		CDE	●				
71	147.143	1316 305 002	81 32315 0055	Reverse Gear 20 T	1		A	●				
71	147.127	1316 305 001	81 32315 0058	Reverse Gear 22 T	1		CD	●				
72		1315 201 054		Reverse Shaft	1	Old (13)	AB	●				
72		1315 201 053		Reverse Shaft	1	Old (13)	CDE	●				
72		1316 201 030		Reverse Shaft	1	Old (13)	A	●				
72	190.301	1316 201 029		Reverse Shaft	1	Old (13)	CD	●				
73	190.302	1315 305 009	81 32523 0178	Reverse Shaft	1	New		●	●			
74		0631 329 293	06 22120 1229	Pin	1	New	AB	●				
74		0631 329 294		Pin	1	New	CDE	●				

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model WITH integrated Oil Pump  
 (10) For model WITHOUT integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc. fig. 74 (\*) New Models only. **DO NO MIX** Single Cone S. with Double Cone S.  
 (14) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (15) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

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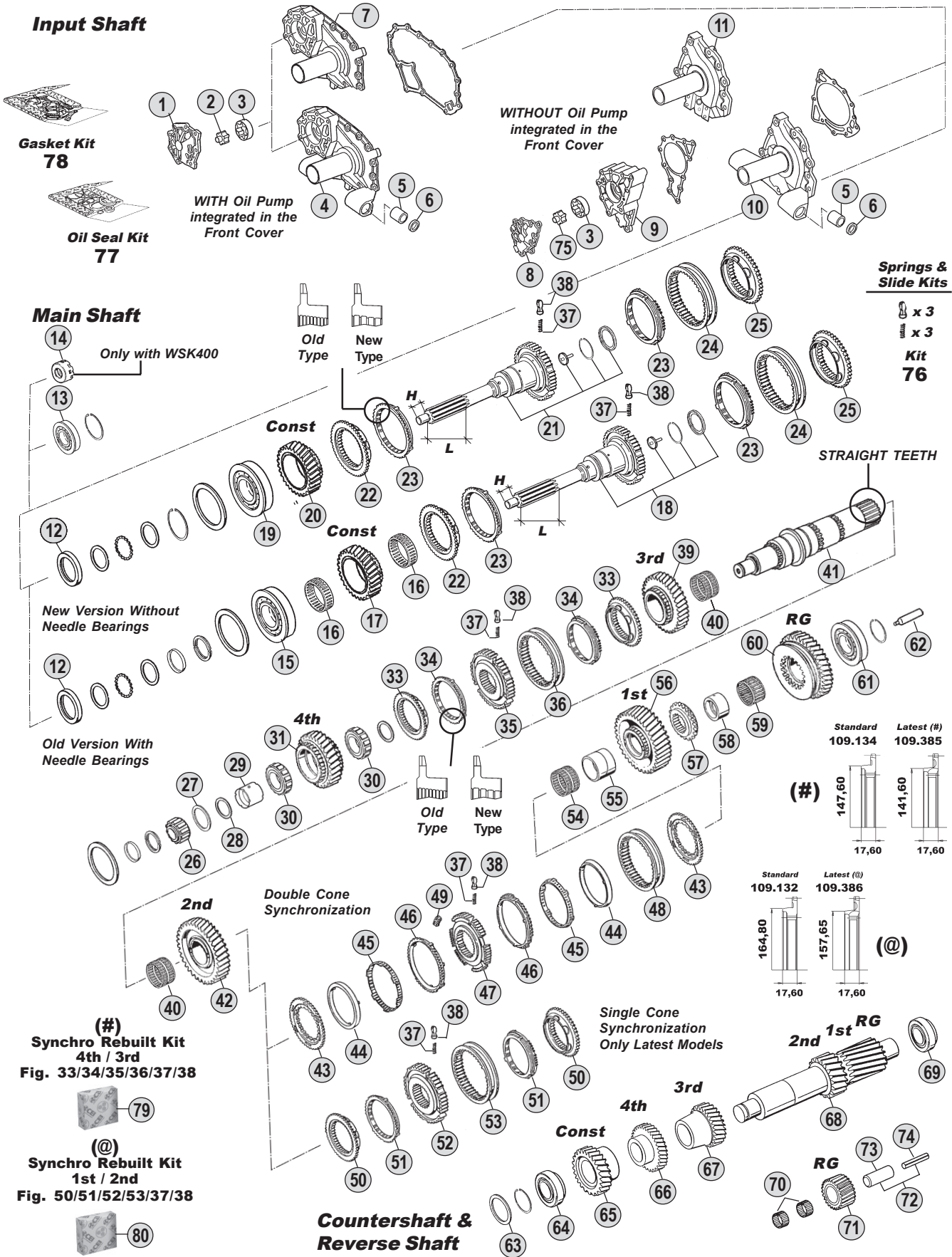
## Table

007 / A



Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



16S151 (1315)  
16S221 (1316)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
		ZF no.	M.A.N. no.												
74		0631 329 295	06 22129 0009	Pin	1	New	A	●							
74		0631 329 296	06 22129 0011	Pin	1	New	CD	●							
75		1314 202 039	81 33208 0025	Rotor	1			●	●						
76	<b>198.843</b>	CEI 198843		Spring Slide Set	1			●	●						
77	<b>198.838</b>	1315 298 002	81 96502 6086	Oil Seal Kit	1			●	●						
78	<b>198.797</b>	1315 298 001	81 96601 6000	Gasket Kit	1			●	●						
79	<b>298.021</b>	1315 298 061		Synchro kit 4th/3rd Speed	1		(#)	●	●						
80	<b>298.020</b>	1315 298 060		Synchro kit 1st/2nd Speed	1		(@)	●	●						

**ECO III**  
From 16S151  
To 16S221

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**Notes**

(1) Only for Input S. 1315 202 048-1316 202 033	(2) Only for Input S. 1315 221 002-1316 221 017
(3) Only for Input S. 1315 202 022 - Old Version with Needle B.	(4) Only for Input S. 1315 202 012 - Old version with Needle B.
(5) Only for Input S. 1316 202 005 - Old version with Needle B.	(6) Do not use for Old version with Needle Bearings
(7) Old Version. Repl. By 1315 304 089+1315 303 050	(8) Old Version. Repl. By 1316 304 103+1316 303 065
(9) For model <b>WITH</b> integrated Oil Pump	(10) For model <b>WITHOUT</b> integrated Oil Pump
(11) Old Version. Use 1316 303 002 with 1316 303 053	(12) Old Version. Use 1316 303 001 with 1316 303 052
(13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc. fig. 74	(*) New Models only. <b>DO NO MIX</b> Single Cone S. with Double Cone S.
# Latest Synchro gen. <b>DO NO MIX</b> the two different version. To update the previous one use the <b>synchro rebuilt kit fig. 79</b>	
@ Latest Synchro gen. <b>DO NO MIX</b> the two different version. To update the previous one use the <b>synchro rebuilt kit fig. 80</b>	

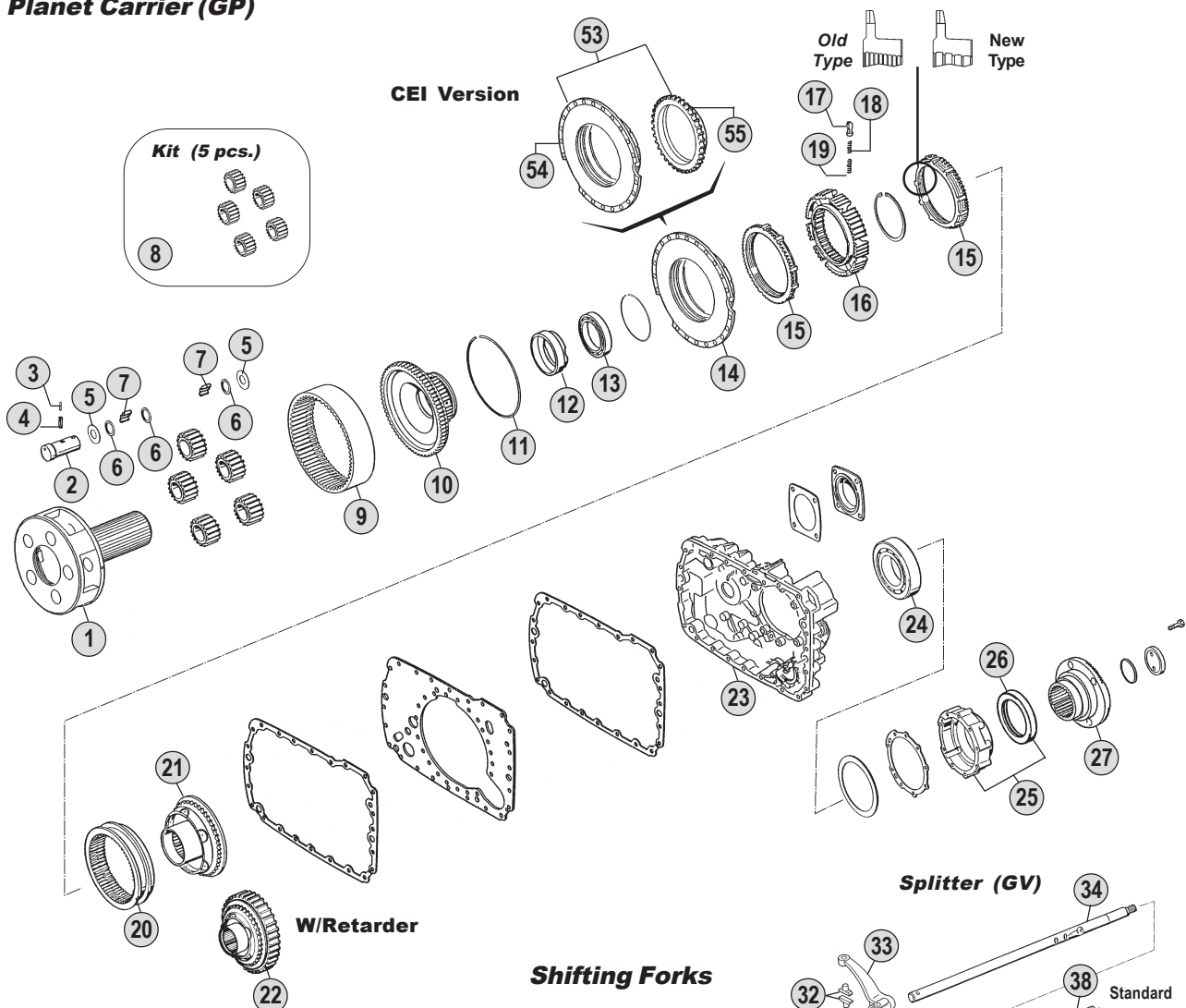
Date  
03 / 2006

Table  
**007 / A**

Suitable To : **ZF**

**16S151 - 16S221**

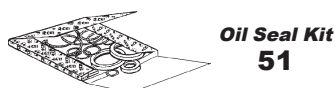
**Planet Carrier (GP)**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 48</b>	<b>Kit 49</b>	<b>Kit 50</b>

**Kits**



**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	M.A.N. no.					16S151 (1315)	16S221 (1316)					
1	190.393	1296 232 002	81 32403 0086	Planetary Carrier	1			●						
1	190.392	1316 232 006		Planetary Carrier	1			●						
2	107.164	1296 332 005	81 32523 0155	Planet Shaft	5			●						
2	107.165	1312 332 026	81 32523 0160	Planet Shaft	5			●						
3	160.195	0631 329 167	06 22120 0513	Lock Pin D.3x26	5			●	●					
4	160.194	0631 329 051	06 22120 0913	Lock Pin D.5x26	5			●	●					
5	169.759	0501 308 981	81 32313 0123	Thrust Washer	10			●	●					
6	169.744	0730 107 168	81 32313 0114	Spacer Ring	15			●	●					
7	171.046	0735 470 164	81 93403 0021	Roller D.10x15	140			●						
7	171.062	0750 119 116	81 93403 0023	Roller D.10x16,8	140				●					
8	198.800	1313 232 003	81 32301 6011	Planetary Gear Set (5 pcs)	1		ACD	●						
8	198.816	1315 232 001	81 32301 6012	Planetary Gear Set (5 pcs)	1		BE	●						
8	198.801	1312 232 014	81 37505 6009	Planetary Gear Set (5 pcs)	1				●					
9	123.208	1295 332 086	81 32301 0604	Crown Gear 86 T	1		ACD	●						
9	123.221	1315 332 003	81 32301 0851	Crown Gear 90 T	1		BE	●						
9	123.208	1295 332 086	81 32301 0604	Crown Gear 86 T	1				●					
10	150.133	1313 332 020	81 32403 0087	Flange Gear 86 T	1		ACD	●						
10	150.140	1315 332 002	81 32403 0094	Flange Gear 90 T	1		BE	●						
10	150.134	1297 332 120	81 37511 0007	Flange Gear 86 T	1				●					
11	111.198	0730 505 056	81 90820 0371	Locking Wire	1			●	●					
12		1297 332 002	81 32312 0708	Ring	1			●						
13	130.310	0750 116 165	81 93410 0083	Bearing D.80x110x16	1			●						
13	130.311	0635 338 035		Bearing D.100x125x13	1				●					
14	298.017	1315 233 006	81 32425 0121	Synchronizer cone	1			●	●					
15	119.085	1296 333 022	81 32420 0096	Synchronizer Ring	2	Old Type		●	●					
15	119.172	1296 333 045	81 32420 0236	Synchronizer Ring	2	New Type		●	●					
16	157.182	1313 333 001	81 32420 0152	Synchronizer Hub	1			●						
16	157.183	1297 333 115	81 32420 0159	Synchronizer Hub	1				●					
17	160.116	1240 304 278	81 32510 0005	Pressure Piece	9			●	●					
18	156.036	0732 040 386	81 97601 0758	Inner Spring De.3x34	9			●	●					
19	156.037	0732 040 385	81 97601 0757	Outer Spring De.6x34	9			●	●					
20	154.098	1296 333 023	81 32402 0111	Sliding Sleeve	1			●	●					
21	198.374	1313 233 001	81 32425 0083	Synchronizer Cone (38 Spl.)	1			●						
21	198.790	1297 233 056	81 32425 0100	Synchronizer Cone (41 Spl.)	1				●					
22	196.353	1315 233 023	81 32425 0127	Synchronizer Cone 59 T (38 Spl)	1	With Retarder		●						
22	196.352	1316 233 010	81 32425 0128	Synchronizer Cone 59 T (41 Spl)	1	With Retarder			●					
23		1315 301 117	81 32103 0134	Housing	1			●	●					
23	175.242	1315 301 223	81 32106 0223	Housing	1	Latest Type		●	●					
24	130.245	0750 116 002	81 93410 0046	Bearing D.90x160x30	1			●	●					
25		1315 231 004		Cover	1			●	●					
26		0750 111 341	81 96503 0236	Oil Seal 105x130x12	1			●	●					
27		1315 338 002	81 39115 0370	Output Flange	1	D.180-4.H.		●						
27		1313 338 002	81 39115 0255	Output Flange	1	D.180-4.H.		●						
27		1313 338 011		Output Flange	1	D.204-4.H.		●						
27		1315 238 001		Output Flange	1	D.222-4.H.		●						

Notes

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Table

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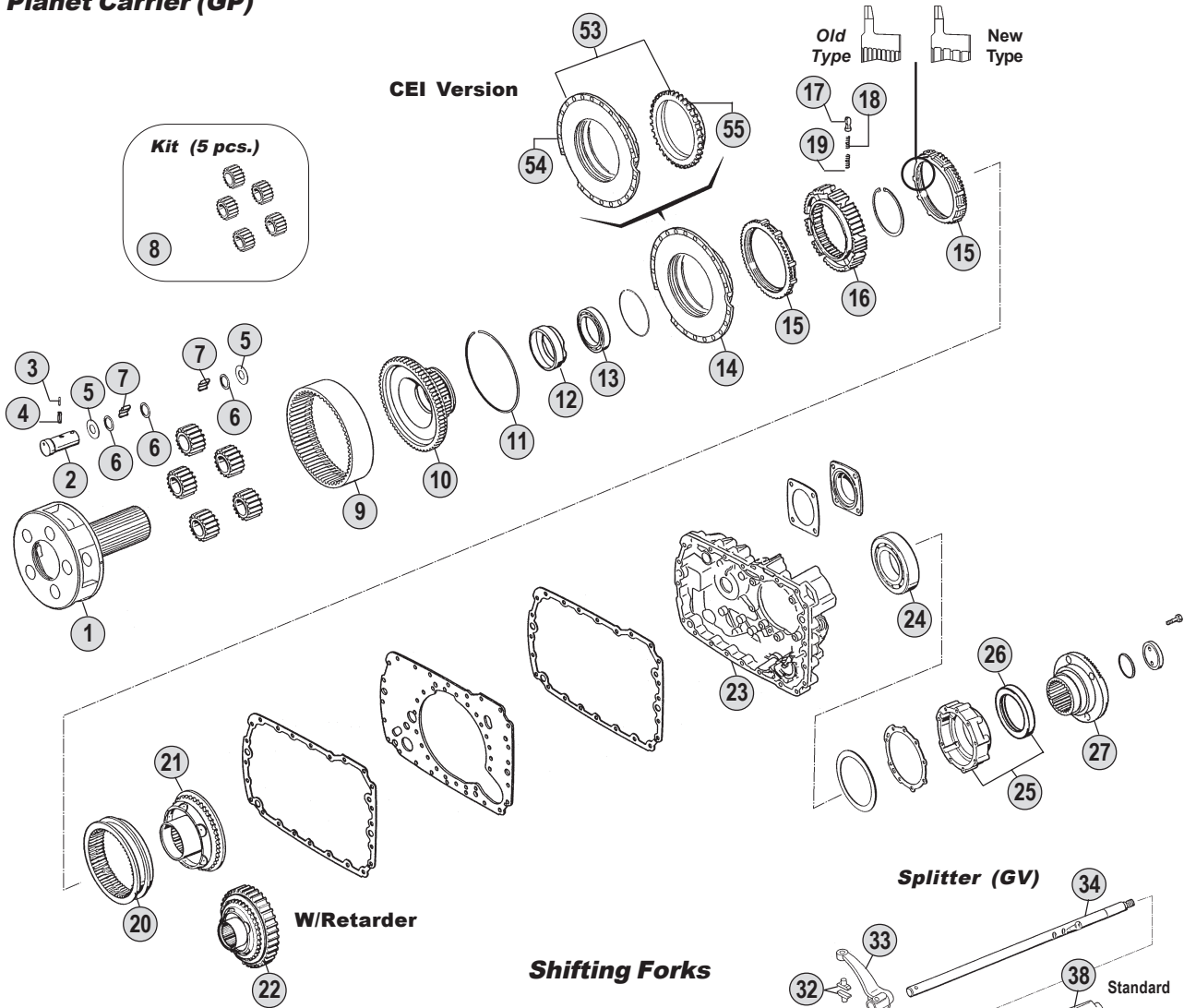
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ECO III  
From 16S151  
To 16S221

Suitable To : **ZF**

**16S151 - 16S221**

**Planet Carrier (GP)**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 48</b>	<b>Kit 49</b>	<b>Kit 50</b>

**Kits**



**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	M.A.N. no.					16S151 (1315)	16S221 (1316)		
27		1297 333 110	81 39115 0289	Output Flange	1	D.180-4H.		●			
27		1316 338 002	81 39115 0381	Output Flange	1	D.180-4H.		●			
27		1312 333 018		Output Flange	1	D.200-4H.		●			
27		1316 338 003		Output Flange	1	D.200-4H.		●			
28	<b>141.163</b>	1297 306 120	81 32526 0031	Slide	2	Old Type		●	●		
28	<i>141.168</i>	1316 306 015	81 32526 0039	Slide	2	New Type		●	●		
29		1315 206 013	81 32518 0186	Fork	1	Old Type		●			
29		1315 206 055		Fork	1	New Type		●			
29		1315 206 024		Fork	1	Old Type		●			
29		1315 206 056		Fork	1	New Type		●			
29		1316 206 018	81 32518 0193	Fork	1	Old Type			●		
29		1316 206 037		Fork	1	New Type			●		
29		1316 206 017		Fork	1	Old Type			●		
29		1316 206 038		Fork	1	New Type			●		
30		1315 206 046	81 32518 0231	Fork	1	Old Type		●			
30		1315 206 052		Fork	1	New Type		●			
30		1315 206 047		Fork	1	Old Type		●			
30		1315 206 053		Fork	1	New Type		●			
30		1316 206 025	81 32518 0234	Fork	1	Old Type			●		
30		1316 206 033		Fork	1	New Type			●		
30		1316 206 026		Fork	1	Old Type			●		
30		1316 206 034		Fork	1	New Type			●		
30		1316 206 027		Fork	1	Old Type			●		
30		1316 206 035		Fork	1	New Type			●		
31		1315 206 003		Fork	1			●			
31		1315 206 023	81 32518 0187	Fork	1			●			
31		1316 206 013	81 32518 0191	Fork	1				●		
31		1316 206 014		Fork	1				●		
32	<b>141.163</b>	1297 306 120	81 32526 0031	Slide	2	Old Type		●	●		
32	<i>141.168</i>	1316 306 015	81 32526 0039	Slide	2	New Type		●	●		
33		1315 312 017	81 32516 0125	Fork	1	Old Type		●	●		
33		1315 312 074		Fork	1	New Type		●	●		
34		1315 312 049	81 32518 0230	Rod	1	Standard		●			
34		1315 312 022	81 32518 0188	Rod	1	Extended		●			
34		1316 312 016	82 32518 0010	Rod	1	Standard			●		
34		1316 312 008	81 32518 0194	Rod	1	Extended			●		
35		0750 112 131	81 96401 0163	Cap Collar D.25x40x15	1	Standard		●	●		
36	<i>139.331</i>	0750 112 034	81 96401 0148	Cap Collar D.25x38x14,2	1	Extended		●	●		
37		1315 312 020	81 32739 0027	Piston	1			●	●		
38		1315 312 048	81 32638 0032	Cylinder	1			●			
38		1316 312 015	81 32638 0037	Cylinder	1				●		
39	<b>141.085</b>	1296 334 004	81 32526 0026	Bronze Slide	2			●	●		
40		1315 334 039	81 32515 0098	Fork	1			●	●		
41		1315 334 058	81 32518 0250	Rod	1			●			
41		1316 334 010	81 32518 0218	Rod	1				●		

Notes

Date

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Table

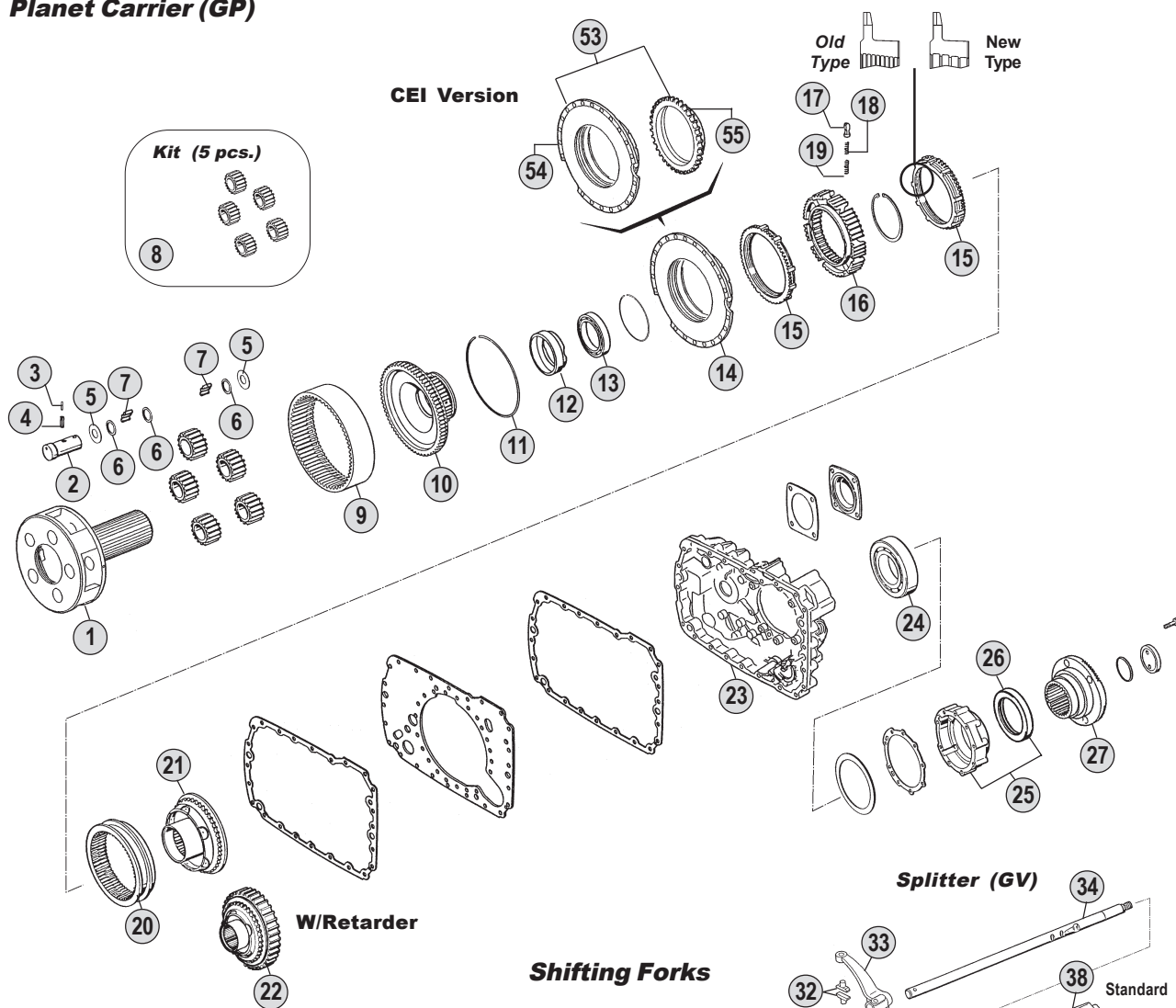
007 / B

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Suitable To : **ZF**

**16S151 - 16S221**

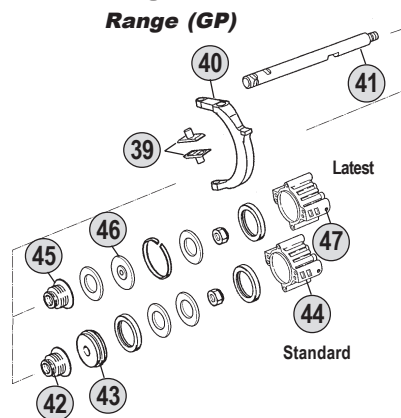
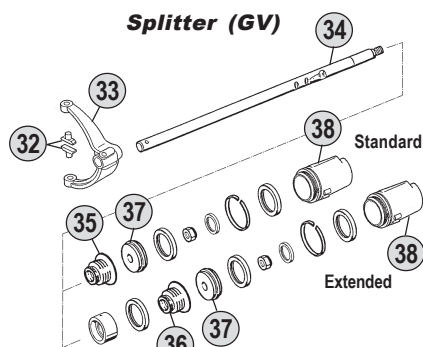
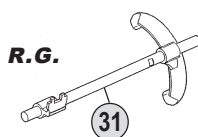
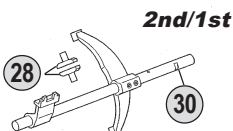
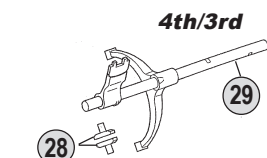
**Planet Carrier (GP)**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 48</b>	<b>Kit 49</b>	<b>Kit 50</b>

**Kits**



**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



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*16S151 (1315)*  
*16S221 (1316)*

Fig.	O.E.M. Reference			Description	Q.ty	Note	Ratio				
	CEI no.	ZF no.	M.A.N. no.								
42	139.331	0750 112 034	81 96401 0148	Cap Collar D.25x38x14,2	1	Standard Type		●	●		
43	189.422	1296 334 039	81 32639 0019	Piston	1	Standard Type		●	●		
44		1315 334 021	81 32638 0024	Cylinder	1	Standard Type		●	●		
45		0750 112 131	81 96401 0163	Cap Collar D.25x40x15	1	Latest Type		●	●		
46		1315 334 034	81 32639 0056	Piston	1	Latest Type		●	●		
47		1315 334 056	81 32638 0040	Cylinder	1	Latest Type		●	●		
48	198.339	1268 298 938		Spring Slide Set	1			●	●		
49	198.564	CEI 198564		Spring Slide Set	1			●	●		
50	198.842	1295 298 933		Spring Slide Set	1			●	●		
51	198.838	1315 298 002	81 96502 6086	Oil Seal Kit	1			●	●		
52	198.797	1315 298 001	81 96601 6000	Gasket Kit	1			●	●		
53	198.789	CEI 198789		Synchronizer Cone	1	Can Repl. fig. 14		●	●		
54	135.122	1296 333 046	81 30301 4861	Saddle Plate	1	Use with fig. 55		●	●		
55	109.174	1296 333 050	81 32425 0141	Synchronizer Cone	1	Use with fig. 54		●	●		

**ECO III**  
 From 16S151  
 To 16S221

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Notes

Date

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Table

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suitable to :

**Z.F.****EcoSplit III****From 16S151 to 16S251****Planetary Gear with HELICAL TEETH****Application**

	<b>16S151</b>	<b>16S181</b>	<b>16S221</b>	<b>16S251</b>
	(1315)	(1316)	(1316)	(1316)
<b>MERCEDES</b>				
<b>MAN</b>				
<b>IVECO</b>				
<b>RVI</b>				
<b>DAF</b>				
<b>VOLVO</b>				

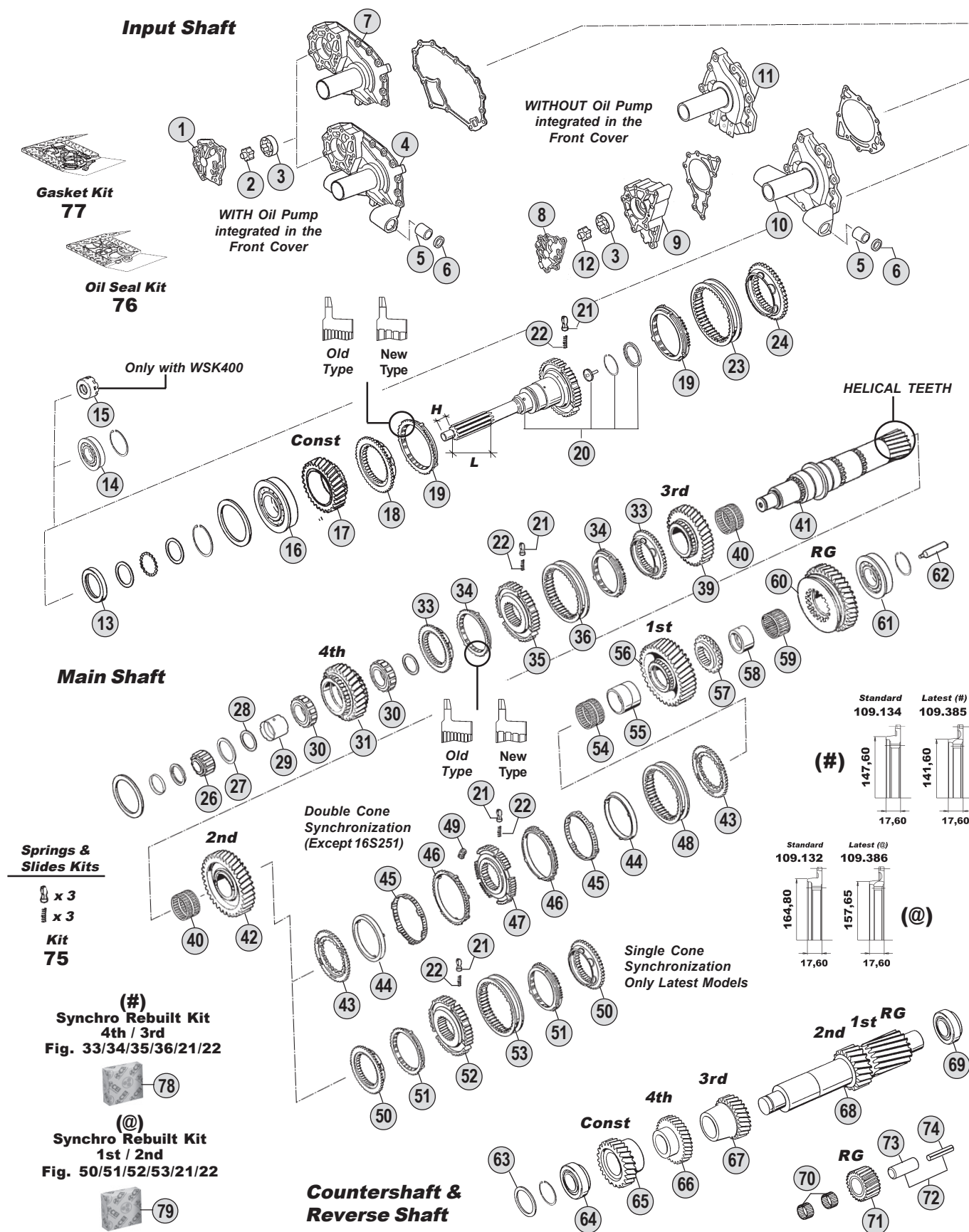
**Ratios**

	<b>R.13,74-0,84</b>	<b>R.13,80-0,84</b>	<b>R.16,41-1,00</b>		
	<b>A</b>	<b>B</b>	<b>C</b>		
<b>16S151</b>					
<b>16S181</b>					
<b>16S221</b>					
<b>16S251</b>					

**ECO III**  
 From 16S151  
 To 16S251

Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**



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**Ratios**

<b>16S151</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S181</b>	A : --	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S221</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S251</b>	A : --	B : 13,80 - 0,84	C : --	D : --	E : --



16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	M.A.N. no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)
1		1315 302 013	81 38521 0002	Cover	1			●	●	●	●
2		1315 202 014	81 33208 0023	Rotor	1			●	●	●	●
3		1315 303 027	81 33223 0010	Oil Pump Housing	1			●	●	●	●
4		1315 302 057	81 32240 0035	Front Cover	1			●	●	●	●
5		0730 260 398	81 93021 0330	Bush	4			●	●	●	●
6		0501 312 738	81 96503 0293	Oil Seal 30x37x4	4			●	●	●	●
7		1315 302 045	81 32240 0012	Front Cover	1			●	●	●	●
7		1315 302 047		Front Cover	1			●	●	●	●
8		1315 302 120	81 38521 0004	Cover	1			●	●	●	●
9		1315 302 121	81 38520 0003	Housing	1			●	●	●	●
10		1315 202 055		Front Cover	1			●	●	●	●
10		1315 202 058		Front Cover	1			●	●	●	●
10		1315 202 061	81 32240 6000	Front Cover	1			●	●	●	●
10		1315 202 065		Front Cover	1			●	●	●	●
10		1315 202 060	81 32240 0020	Front Cover	1	With WSK400		●	●	●	●
11		1315 302 075		Front Cover	1			●	●	●	●
11		1315 302 136	81 32240 0021	Front Cover	1			●	●	●	●
12		1314 202 039	81 33208 0025	Rotor	1			●	●	●	●
13		0734 310 386	81 96503 0342	Oil Seal 55x75x8	1			●	●	●	●
13		0734 310 104	81 96502 0403	Oil Seal 52x68x8	1	(1)		●	●	●	●
13		0734 319 514	81 96503 0319	Oil Seal 52x72x8	1	(2)		●	●	●	●
14		0635 450 098	06 32739 0002	Bearing 52x90x33	1	(2)		●	●	●	●
15		4130 309 063	81 32310 0001	Disk	1	(1)		●	●	●	●
16	<b>130.518</b>	0750 117 732	81 93420 0329	Bearing D.85x150x30,50	1			●	●	●	●
17	<b>145.513</b>	1315 302 173	81 32302 0027	Constant Gear 34 T	1		A	●	●	●	●
17	<b>145.556</b>	1315 302 158	81 32302 0051	Constant Gear 35 T	1		B	●	●	●	●
17	<b>145.553</b>	1315 302 157	81 32302 0046	Constant Gear 30 T	1		C	●	●	●	●
17	<b>145.561</b>	1316 302 057	81 32302 0068	Constant Gear 35 T	1		B	●	●	●	●
17	<b>145.483</b>	1316 302 066	81 32302 0047	Constant Gear 30 T	1		C	●	●	●	●
17	<b>145.487</b>	1316 302 065	85 32301 0001	Constant Gear 34 T	1		A	●	●	●	●
17	<b>145.554</b>	1316 302 067	81 32302 0031	Constant Gear 35 T	1		B	●	●	●	●
17	<b>145.483</b>	1316 302 066	81 32302 0047	Constant Gear 30 T	1		C	●	●	●	●
18	<b>109.134</b>	1312 304 027	81 32425 0092	Synchronizer Cone	1			●	●	●	●
19	<b>119.119</b>	1297 304 402	81 32420 0146	Synchronizer Ring	2	Old Type		●	●	●	●
19	<b>119.167</b>	1297 304 484	81 32420 0230	Synchronizer Ring	2	New Type		●	●	●	●
20	190.304	1315 202 037	81 32205 0267	Input Shaft	1	L=125 H=31,5		●	●	●	●
20	190.315	1315 202 040		Input Shaft	1	L=102 H=32		●	●	●	●
20		1315 202 048	81 32205 0260	Input Shaft	1	WSK400		●	●	●	●
20	190.317	1315 221 002		Input Shaft	1	NMV221 (Clutch PTO)		●	●	●	●
20	190.303	1316 202 025	85 32205 0001	Input Shaft	1	L=134 H=32		●	●	●	●
20	190.300	1316 202 026		Input Shaft	1			●	●	●	●
20	190.310	1316 202 033		Input Shaft	1	L=63 H=46,5 / WSK400		●	●	●	●
20		1316 202 038		Input Shaft	1			●	●	●	●
20		1316 221 017		Input Shaft	1	NMV221 (Clutch PTO)		●	●	●	●
21	<b>160.189</b>	1297 304 436	81 32510 0013	Pressure Piece	3			●	●	●	●

ECO III

From 16S151  
To 16S251

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. **DO NO MIX** Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (Ⓜ) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

03 / 2006

## Table

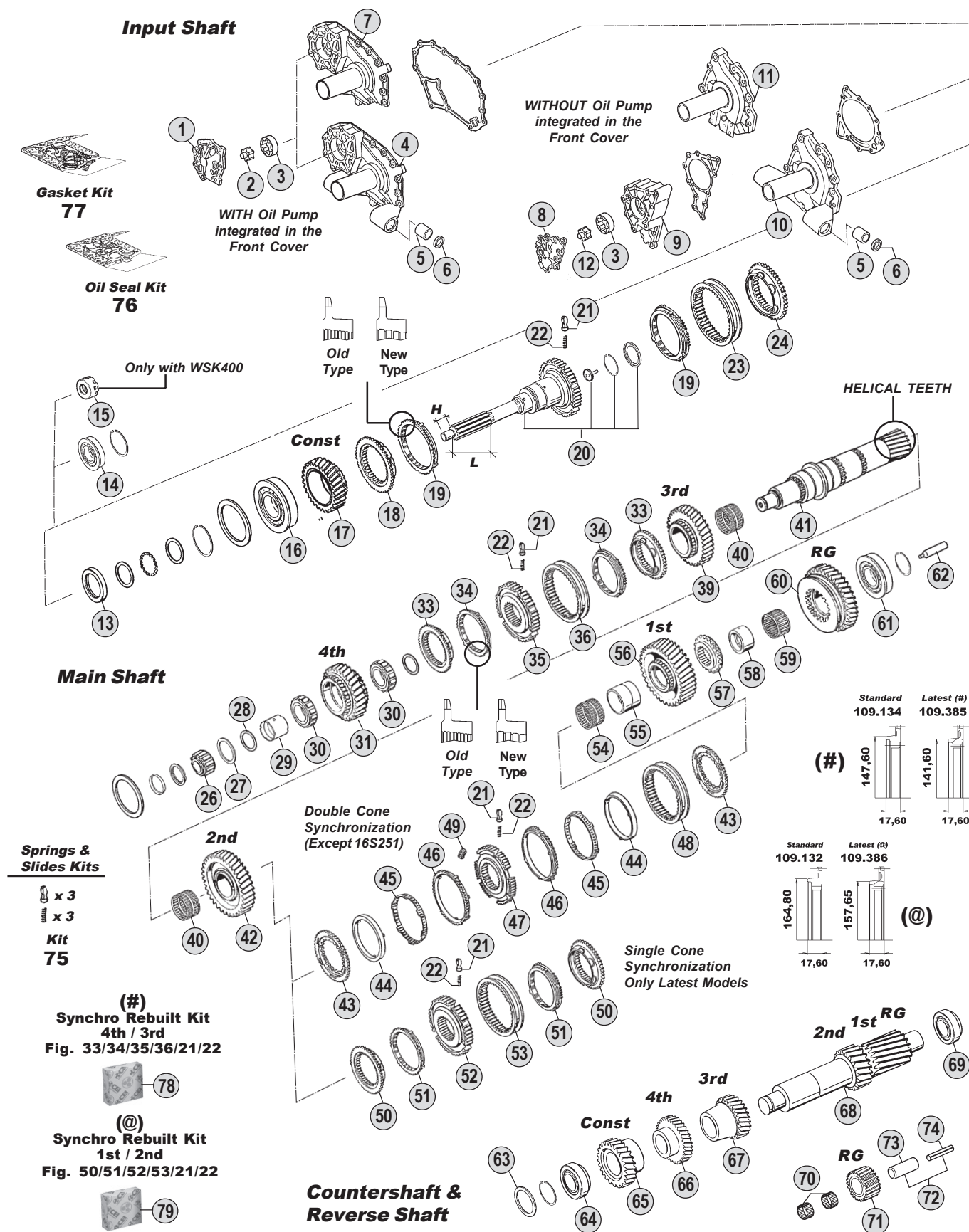
008 / A

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Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**



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**Ratios**

<b>16S151</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S181</b>	A : --	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S221</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S251</b>	A : --	B : 13,80 - 0,84	C : --	D : --	E : --



Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	M.A.N. no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)
22	156.140	0732 040 409	81 97601 0895	Spring D.6,50x23,50	3			●	●	●	●
23	154.135	1310 304 202	81 32402 0197	Sliding Sleeve	1			●	●	●	●
24	109.133	1312 304 056	81 32425 0093	Synchronizer Cone	1			●	●	●	●
26	137.150	0750 117 232	81 93501 0080	Roller Cage D.42x40,30	1			●	●	●	●
27		1315 304 048	81 32313 0302	Ring	1	S.8,00 mm		●	●	●	●
27		1315 304 043	81 32313 0263	Ring	1	S.7,50 mm		●	●	●	●
28	169.776	0750 101 158	81 32313 0322	Thrust Washer 81,5x5	2			●	●	●	●
29	117.321	0750 119 125	81 37260 0007	Bush D.67x77x54,1	1			●			
29	117.320	0750 119 124	81 37260 0006	Bush D.67x77x66,10	1				●	●	●
30	137.164	0750 115 534	81 93404 0062	Roller Cage 77x101x29	2			●			
30	137.136	0750 115 531	81 93404 0061	Roller Cage D.77x101x29	2				●	●	●
31	146.431	1315 304 017	81 32301 0860	Gear 4th Speed 30 T	1		A	●			
31	146.320	1315 304 089	81 32302 0059	Gear 4th Speed 32 T	1		BC	●			
31	146.410	1316 304 007	81 32301 0869	Gear 4th Speed 30 T	1		A			●	
31	146.401	1316 304 103	81 32302 0035	Gear 4th Speed 32 T	1		BC		●	●	●
33	109.134	1312 304 027	81 32425 0092	Synchronizer Cone	2			●	●	●	●
33	109.385	1316 304 159		Synchronizer Cone	2		(#)	●	●	●	●
34	119.119	1297 304 402	81 32420 0146	Synchronizer Ring	2	Old Type		●	●	●	●
34	119.167	1297 304 484	81 32420 0230	Synchronizer Ring	2	New Type		●	●	●	●
34	119.217	1316 304 149		Synchronizer Ring	2		(#)	●	●	●	●
35	157.180	1312 304 052	81 32420 0151	Synchronizer Hub	1			●	●	●	●
35	157.227	1316 304 162		Synchronizer Hub	1		(#)	●	●	●	●
36	154.135	1310 304 202	81 32402 0197	Sliding Sleeve	1			●	●	●	●
36	154.357	1315 304 135		Sliding Sleeve	1		(#)	●	●	●	●
39	145.514	1315 304 028	81 32301 0862	Gear 3rd Speed 32 T	1		A	●			
39	145.456	1315 304 027	81 32302 0058	Gear 3rd Speed 34 T	1		BC	●			
39	145.484	1316 304 094	81 32302 0072	Gear 3rd Speed 34 T	1		BC		●		
39	145.488	1316 304 009	81 32301 0870	Gear 3rd Speed 32 T	1		A			●	
39	145.473	1316 304 008	81 32302 0080	Gear 3rd Speed 34 T	1		BC			●	
39	145.555	1316 304 066	81 32301 0995	Gear 3rd Speed 34 T	1		B				●
40	137.137	0735 321 087	81 93402 0108	Needle Cage D.92x100x53	2			●			
40	137.138	0750 115 303	81 93402 0115	Needle Cage D.92x100x63	2				●	●	●
41	103.138	1315 304 131	81 32202 0101	Main Shaft	1			●			
41	103.130	1316 304 132	81 32202 0100	Main Shaft	1				●	●	
41	103.143	1316 304 131	81 32202 0099	Main Shaft	1						●
42	145.455	1315 304 026	81 32301 0861	Gear 2nd Speed 37 T	1		A	●			
42	145.454	1315 304 025	81 32302 0055	Gear 2nd Speed 38 T	1		BC	●			
42	145.515	1316 304 003	81 32301 0868	Gear 2nd Speed 37 T	1		A			●	
42	145.474	1316 304 002	81 32302 0071	Gear 2nd Speed 38 T	1		BC		●	●	●
43	109.176	1312 304 106	81 32425 0103	Synchronizer Cone	2			●	●	●	●
44	119.152	1268 304 424	81 32420 0163	Intermediate Ring	2			●	●	●	●
45	119.153	1268 304 494	81 30120 0051	Intermediate Cone	2			●	●	●	●
46	119.144	1268 304 525	81 32420 0161	Synchronizer Ring	2			●	●	●	●
47	157.181	1312 304 158	81 32420 0181	Synchronizer Hub	1			●	●	●	●
48	154.190	1310 304 175	81 32402 0191	Sliding Sleeve	1			●	●	●	●

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. **DO NO MIX** Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (Ⓜ) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

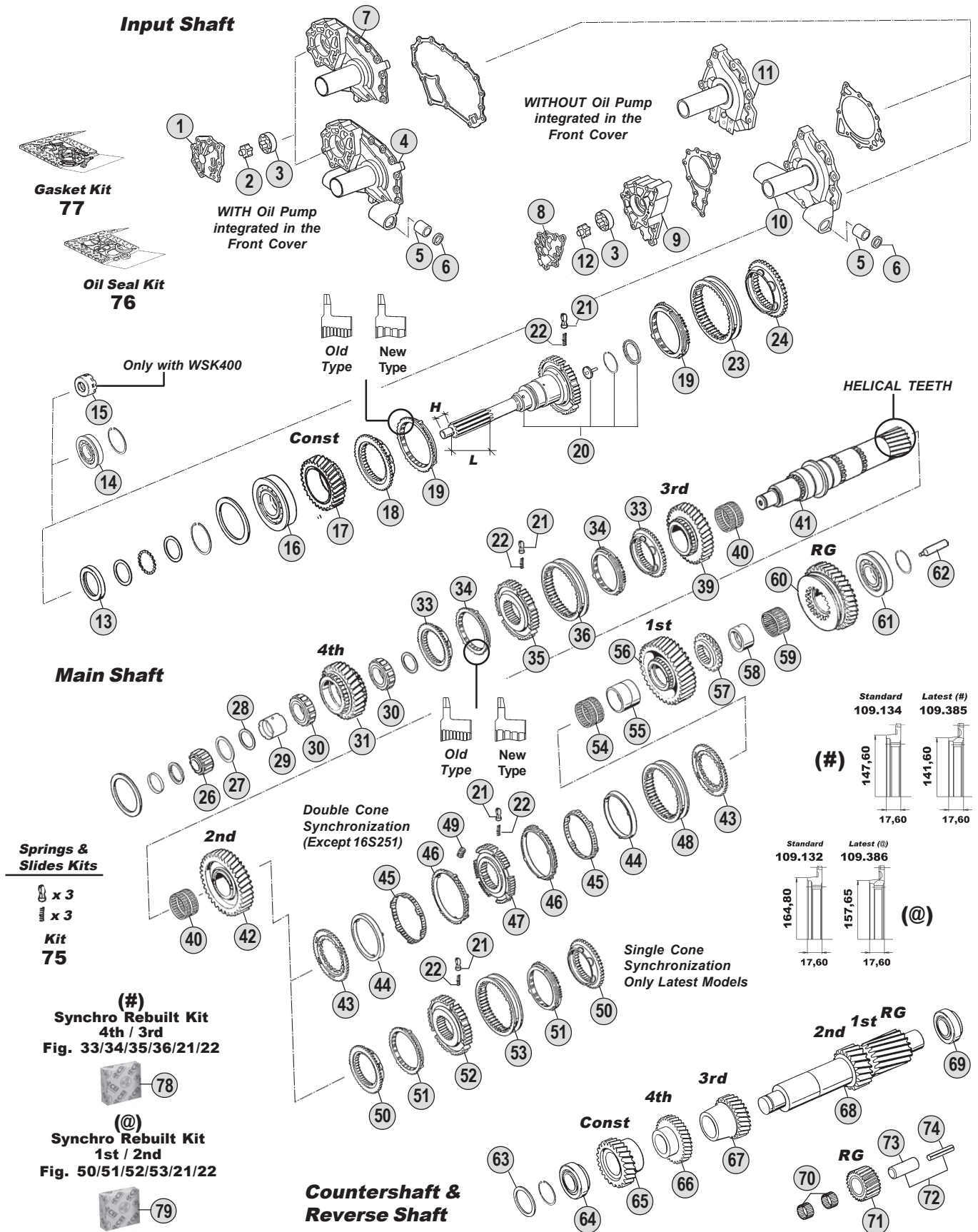
03 / 2006

## Table

008 / A

Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**



**Ratios**

<b>16S151</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S181</b>	A : --	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S221</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S251</b>	A : --	B : 13,80 - 0,84	C : --	D : --	E : --



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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

## O.E.M. Reference

Fig.	CEI no.	ZF no.	M.A.N. no.	Description	Q.ty	Note	Ratio						
49	156.176	1312 304 159	81 38108 0005	Pad	3			●	●	●			
50	109.132	1313 304 009	81 32425 0094	Synchronizer Cone	2	(*)		●	●	●	●		
50	109.386	1316 304 156		Synchronizer Cone	2		(@)	●	●	●	●		
51	119.122	1297 304 401	81 32420 0148	Synchronizer Ring	2	(*) Old Type		●	●	●	●		
51	119.166	1297 304 485	81 32420 0241	Synchronizer Ring	2	(*) New Type		●	●	●	●		
51	119.218	1316 304 150		Synchronizer Ring	2		(@)	●	●	●	●		
52	157.189	1313 304 008	81 32420 0149	Synchronizer Hub	1	(*)		●	●	●	●		
52	157.228	1316 304 163		Synchronizer Hub	1		(@)	●	●	●	●		
53	154.202	1316 304 078	81 32402 0189	Sliding Sleeve	1	(*)		●	●	●	●		
53	154.358	1315 304 136		Sliding Sleeve	1		(@)	●	●	●	●		
54	137.160	0750 115 325	81 93402 0109	Needle Cage D.96x104x55	1			●					
54	137.151	0750 115 327	81 93402 0116	Needle Cage D.96x104x72	1				●	●	●		
55	117.294	1313 304 038	81 93021 0106	Bush	1			●					
55	117.310	1312 304 084	81 93021 0143	Bush D.85x96x72	1				●	●	●		
56	145.453	1315 304 014	81 32301 0859	Gear 1st Speed 44 T	1		A	●					
56	145.452	1315 304 004	81 32302 0056	Gear 1st Speed 47 T	1		BC	●					
56	145.522	1316 304 013	81 32301 0871	Gear 1st Speed 44 T	1		A			●			
56	145.475	1316 304 010	81 32302 0034	Gear 1st Speed 47 T	1		BC		●	●	●		
57	109.144	1315 304 018	81 32425 0114	Engaging Ring	1			●					
57	109.163	1312 304 124	81 32425 0117	Engaging Ring	1				●	●	●		
58	117.293	1315 304 132	81 93021 0383	Bush	1			●					
58	117.311	1316 304 133	81 93021 0388	Bush D.80x90x50	1				●	●	●		
59	137.162	0750 115 324	81 93402 0110	Roller Cage D.90x98x41	1			●					
59	137.140	0750 115 326	81 93402 0117	Roller Cage D.90x98x50	1				●	●	●		
60	147.124	1315 304 013	81 32301 0858	Reverse Gear 42 T	1		A	●					
60	147.123	1315 304 006	81 32302 0057	Reverse Gear 44 T	1		BC	●					
60	147.144	1316 304 015	81 32301 0872	Reverse Gear 42 T	1		A			●			
60	147.128	1316 304 012	81 32301 0994	Reverse Gear 44 T	1		BC		●	●	●		
61	130.309	0750 117 677	81 93420 0312	Bearing D.80x130x36	1			●					
61	130.304	0750 117 678	06 32499 0191	Bearing D.80x140x36,50	1				●	●	●		
62	188.209	1312 304 150	81 32562 0146	Oil Tube	1			●	●	●			
62		1316 304 093		Oil Tube	1						●		
63		0730 106 917	81 32313 0197	Washer	1	S.3,00 mm		●	●	●	●		
63		0730 101 471	81 32313 0177	Washer	1	S.2,00 mm		●	●	●	●		
64	130.308	0750 117 009	81 93420 0187	Bearing D.49,2x103,1x43,6	1			●	●	●			
64	130.519	0735 371 604		Bearing D.49,2x103,1x43,6	1						●		
65	146.427	1315 303 052	81 32302 0002	Constant Gear 37 T	1		A	●					
65	146.473	1315 303 051	81 32302 0053	Constant Gear 32 T	1		B	●					
65	146.367	1315 303 008		Constant Gear 39 T	1		C	●					
65	146.485	1316 303 056	81 32302 0070	Constant Gear 32 T	1		B		●				
65	146.398	1316 303 055	81 32302 0076	Constant Gear 39 T	1		C		●				
65	146.407	1316 303 031	81 32301 0935	Constant Gear 37 T	1		A			●			
65	146.469	1316 303 064	81 32302 0032	Constant Gear 32 T	1		B			●	●		
65	146.486	1316 303 030	81 32302 0079	Constant Gear 39 T	1		C			●			
66	146.429	1315 303 046	81 32301 0856	Gear 4th Speed 39 T	1		A	●					

## Notes

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 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. **DO NO MIX** Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (@) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

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## Table

008 / A

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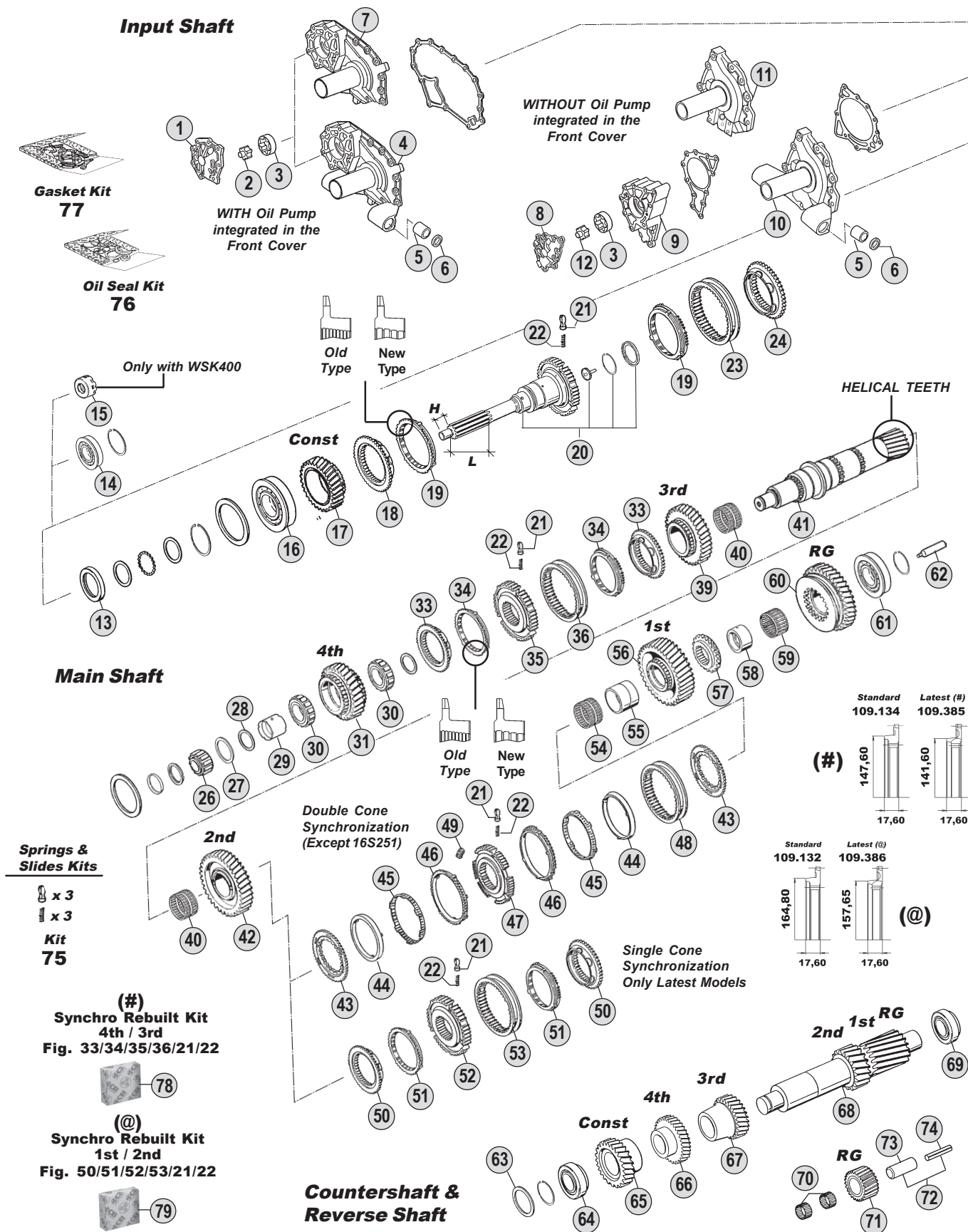


HIGH FIDELITY SPARE PARTS

**ECO III**  
From 16S151  
To 16S251

Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**



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**Ratios**

<b>16S151</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S181</b>	A : --	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S221</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S251</b>	A : --	B : 13,80 - 0,84	C : --	D : --	E : --



16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					M.A.N. no.	16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)	
66	146.474	1315 303 050	81 32302 0054	Gear 4th Speed 35 T	1	BC	●					
66	146.399	1316 303 063	81 32302 0077	Gear 4th Speed 35 T	1	BC		●				
66	146.408	1316 303 004	81 32301 0866	Gear 4th Speed 39 T	1	A			●			
66	146.426	1316 303 065	81 32302 0033	Gear 4th Speed 35 T	1	BC			●	●		
67	146.368	1315 303 010	81 32301 0855	Gear 3rd Speed 28 T	1	A	●					
67	146.365	1315 303 004	81 32302 0052	Gear 3rd Speed 26 T	1	BC	●					
67	146.400	1316 303 058	81 32302 0069	Gear 3rd Speed 26 T	1	BC		●				
67	146.409	1316 303 006	81 32301 0867	Gear 3rd Speed 28 T	1	A			●			
67	146.391	1316 303 005	81 32302 0078	Gear 3rd Speed 26 T	1	BC			●			
67	146.470	1316 303 040	81 32301 0997	Gear 3rd Speed 26 T	1	B				●		
68	105.109	1315 303 041	81 32206 0106	Countershaft 19-23 T	1	A	●					
68	105.124	1315 303 042	81 32206 0129	Countershaft 17-20 T	1	BC	●					
68	105.103	1316 303 034	81 32206 0107	Countershaft 19-23 T	1	A			●			
68	105.100	1316 303 033	81 32206 0130	Countershaft 17-20 T	1	BC		●	●			
68	105.123	1316 303 038	81 32206 0114	Countershaft 17-20 T	1	B				●		
69	130.307	0750 117 011	81 93420 0134	Bearing D.50,8x104,7x39,6	1		●					
69	130.308	0750 117 009	81 93420 0187	Bearing D.49,2x103,1x43,6	1			●	●			
69	130.519	0735 371 604		Bearing D.49,2x103,1x43,6	1					●		
70	137.135	0750 115 366	81 93402 0127	Needle Cage D.45x57x21	2		●					
70	137.149	0750 115 369	81 93402 0128	Needle Cage D.45x57x25	2			●	●	●		
71	147.142	1315 305 005	81 32315 0054	Reverse Gear 20 T	1	A	●					
71	147.126	1315 305 002	81 32315 0060	Reverse Gear 22 T	1	BC	●					
71	147.143	1316 305 002	81 32315 0055	Reverse Gear 20 T	1	A			●			
71	147.127	1316 305 001	81 32315 0058	Reverse Gear 22 T	1	BC		●	●	●		
72		1315 201 054		Reverse Shaft	1	Old (3) A	●					
72		1315 201 053		Reverse Shaft	1	Old (3) BC	●					
72		1316 201 030		Reverse Shaft	1	Old (3) A			●			
72	190.301	1316 201 029		Reverse Shaft	1	Old (3) BC		●	●			
72		1316 201 075	81 32523 0203	Reverse Shaft	1	Old (3) B				●		
73	190.302	1315 305 009	81 32523 0178	Reverse Shaft	1	New	●	●	●	●		
74		0631 329 293	06 22120 1229	Pin	1	New A	●					
74		0631 329 294		Pin	1	New BC	●					
74		0631 329 295	06 22129 0009	Pin	1	New A			●			
74		0631 329 296	06 22129 0011	Pin	1	New BC		●	●			
74		0631 329 305		Pin	1	New B				●		
75	198.843	CEI 198843		Spring Slide Set	1		●	●	●	●		
76	198.838	1315 298 002	81 96502 6086	Oil Seal Kit	1		●	●	●	●		
77	198.797	1315 298 001	81 96601 6000	Gasket Kit	1		●	●	●	●		
78	298.021	1315 298 061		Synchro kit 4th/3rd Speed	1	(#)	●	●	●	●		
79	298.020	1315 298 060		Synchro kit 1st/2nd Speed	1	(@)	●	●	●	●		

**ECO III**  
From 16S151  
To 16S251

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## Notes

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 (\*) New Models only. **DO NO MIX** Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (@) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

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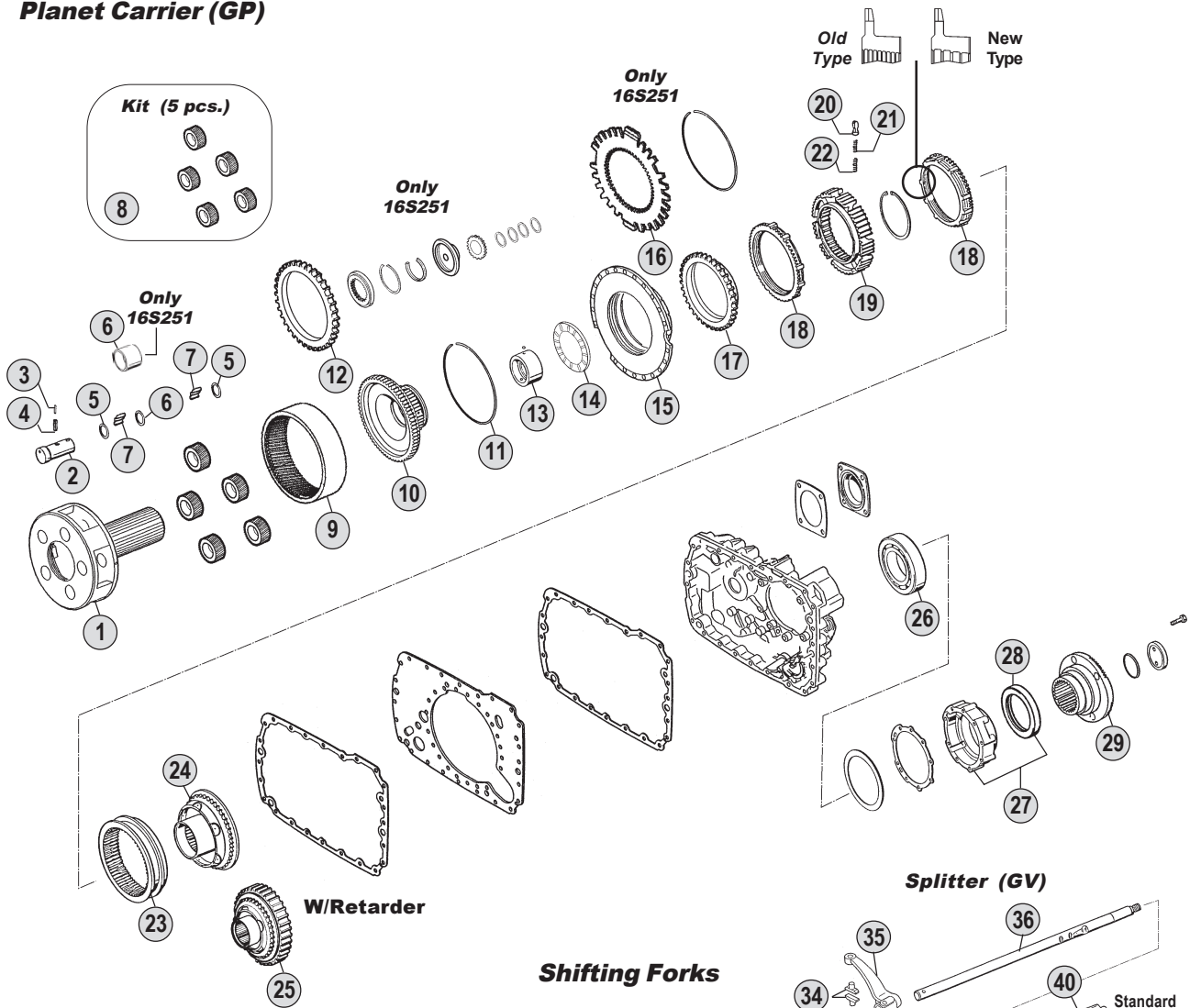
## Table

008 / A

Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

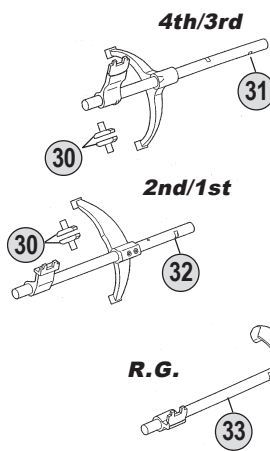
**Planet Carrier (GP)**



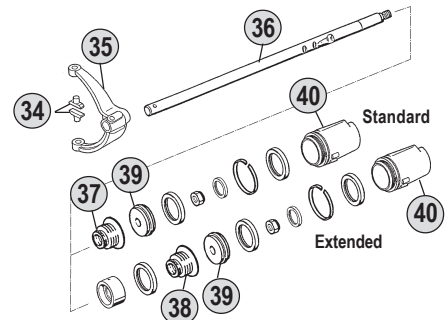
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 50</b>	<b>Kit 51</b>	<b>Kit 52</b>

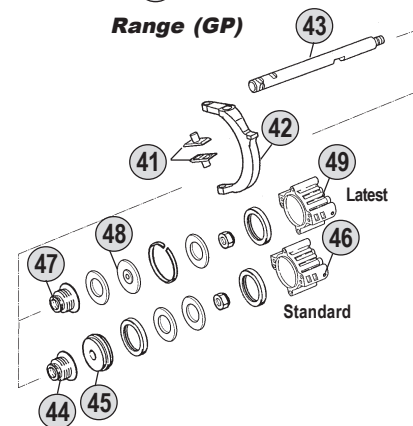
**Kits**



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16S151</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S181</b>	A : --	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S221</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S251</b>	A : --	B : 13,80 - 0,84	C : --	D : --	E : --

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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	O.E.M. Reference			Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.	M.A.N. no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)	
1	190.394	1315 232 016	81 32403 0107	Planetary Carrier	1			●				
1	190.325	1316 232 019	81 37501 0041	Planetary Carrier	1				●			
1	190.394	1315 232 016	81 32403 0107	Planetary Carrier	1	(4)			●			
1	190.325	1316 232 019	81 37501 0041	Planetary Carrier	1					●		
1		1316 232 021	81 37501 0042	Planetary Carrier	1						●	
2	107.159	1315 332 053	81 32523 0205	Planet Shaft	5			●				
2	107.204	1316 332 096	81 32523 0210	Planet Shaft	5				●			
2	107.159	1315 332 053	81 32523 0205	Planet Shaft	5	(4)			●			
2	107.204	1316 332 096	81 32523 0210	Planet Shaft	5					●		
2		1316 332 097	82 32523 0011	Planet Shaft	5						●	
3	160.195	0631 329 167	06 22120 0513	Lock Pin D.3x26	5			●	●	●	●	
4	160.194	0631 329 051	06 22120 0913	Lock Pin D.5x26	5			●	●	●	●	
5	169.744	0730 107 168	81 32313 0114	Spacer Ring	10			●				
5	269.009	0730 109 323	81 90713 0986	Spacer Ring	10				●			
5	169.744	0730 107 168	81 32313 0114	Spacer Ring	10	(4)			●			
5	269.009	0730 109 323	81 90713 0986	Spacer Ring	10					●	●	
6	169.744	0730 107 168	81 32313 0114	Spacer Ring	5			●				
6	269.010	0730 109 309	81 90714 0147	Spacer Ring	5				●			
6	169.744	0730 107 168	81 32313 0114	Spacer Ring	5	(4)			●			
6	269.010	0730 109 309	81 90714 0147	Spacer Ring	5					●		
6		0730 162 801	81 37509 0002	Bush T.14,90	5						●	
7	171.062	0750 119 116	81 93403 0023	Roller D.10x16,8	140			●	●	●	●	
8	198.798	1315 232 010	81 32301 6016	Planetary Gear Set (5 pcs)	1			●				
8	298.024	1316 232 011	81 32301 6018	Planetary Gear Set (5 pcs)	1				●			
8	198.798	1315 232 010	81 32301 6016	Planetary Gear Set (5 pcs)	1	(4)			●			
8	298.024	1316 232 011	81 32301 6018	Planetary Gear Set (5 pcs)	1					●		
8		1316 232 017	81 37505 6010	Planetary Gear Set (5 pcs)	1						●	
9	123.211	1315 332 041	81 32301 0984	Crown Gear	1			●	●	●	●	
9		1316 332 042	81 32301 0991	Crown Gear	1						●	
10	150.136	1316 332 103	81 32403 0108	Carrier Hub	1			●	●	●	●	
10		1316 332 073	81 32403 0106	Carrier Hub	1						●	
11		0730 513 583	81 32240 0022	Locking Wire	1			●	●	●	●	
11		0730 513 639	81 90820 0535	Locking Wire	1						●	
12		1316 332 044	81 37503 0012	Ring Gear	1						●	
13		1316 333 014	81 32313 0306	Bush	1			●	●	●	●	
14	130.312	0735 298 169	81 93401 0062	Bearing D.104,50x128,40x10	1			●	●	●	●	
15	135.122	1296 333 046	81 30301 4861	Saddle Plate	1			●	●	●	●	
16		1316 333 026	81 32425 0155	Saddle Plate	1						●	
17	109.174	1296 333 050	81 32425 0141	Synchronizer Cone	1			●	●	●	●	
18	119.085	1296 333 022	81 32420 0096	Synchronizer Ring	2	Old Type		●	●	●	●	
18	119.172	1296 333 045	81 32420 0236	Synchronizer Ring	2	New Type		●	●	●	●	
19	157.182	1313 333 001	81 32420 0152	Synchronizer Hub	1			●	●	●	●	
20	160.116	1240 304 278	81 32510 0005	Pressure Piece	9			●	●	●	●	
21	156.036	0732 040 386	81 97601 0758	Inner Spring De.3x34	9			●	●	●	●	
22	156.037	0732 040 385	81 97601 0757	Outer Spring De.6x34	9			●	●	●	●	

## Notes

(4) 16S181 Special GP Version. This version use 16S151 GP items.  
For this version use items marked (4) together.

## Date

03 / 2006

## Table

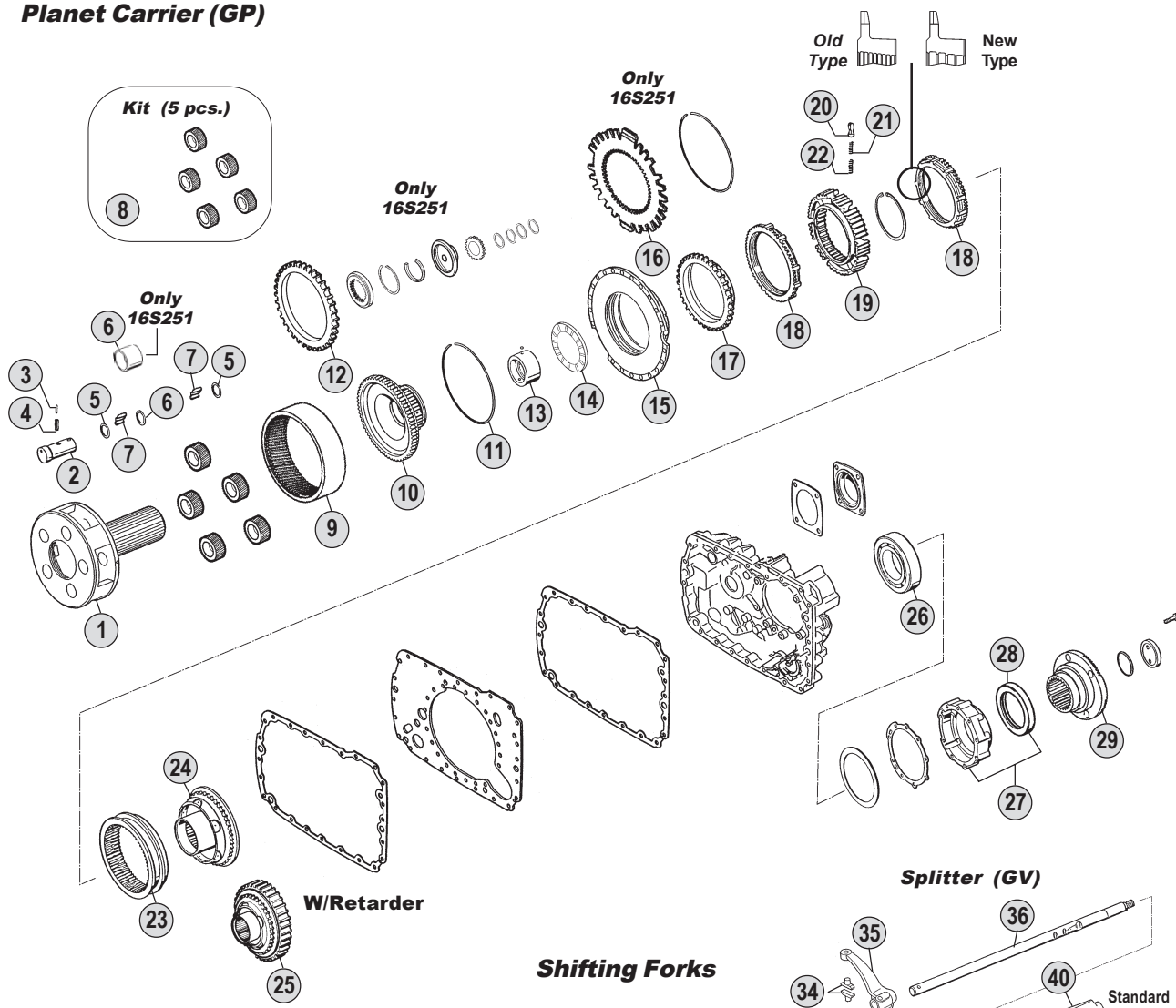
008 / B

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Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

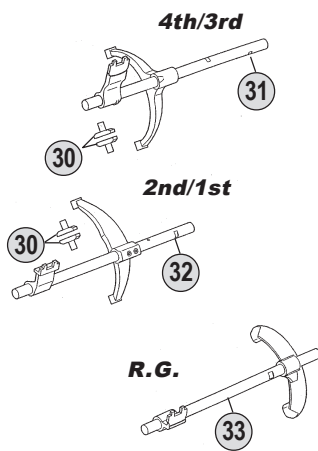
**Planet Carrier (GP)**



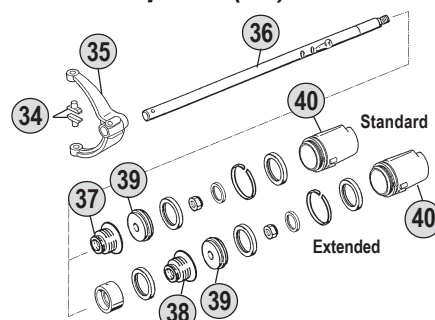
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 50</b>	<b>Kit 51</b>	<b>Kit 52</b>

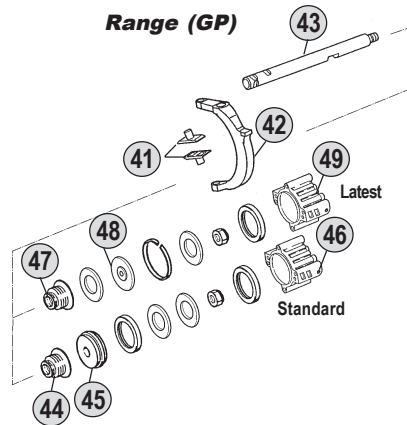
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S151</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S181</b>	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S221</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S251</b>	A: --	B: 13,80 - 0,84	C: --	D: --	E: --

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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	M.A.N. no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)		
23	154.098	1296 333 023	81 32402 0111	Sliding Sleeve	1			●	●	●	●		
24	109.175	1316 233 015	81 32425 0132	Synchronizer Cone (44 Spl.)	1			●	●	●	●		
25	196.270	1316 233 014	81 32425 0136	Synchronizer Cone 59 T (44 Spl)	1	With Retarder		●	●	●	●		
26	130.245	0750 116 002	81 93410 0046	Bearing D.90x160x30	1			●	●	●	●		
27		1315 231 004		Cover	1			●	●	●	●		
28		0750 111 341	81 96503 0236	Oil Seal 105x130x12	1			●	●	●	●		
29		1297 333 110	81 39115 0289	Output Flange	1	D.180-4H.		●	●	●	●		
29		1316 232 028		Output Flange	1	D.222-4H.		●					
29		1316 338 002	81 39115 0381	Output Flange	1	D.180-4H.				●			
30	141.163	1297 306 120	81 32526 0031	Slide	2	Old Type		●	●	●	●		
30	141.168	1316 306 015	81 32526 0039	Slide	2	New Type		●	●	●	●		
31		1315 206 013	81 32518 0186	Fork	1	Old Type		●					
31		1315 206 055		Fork	1	New Type		●					
31		1315 206 024		Fork	1	Old Type		●					
31		1315 206 056		Fork	1	New Type		●					
31		1316 206 018	81 32518 0193	Fork	1	Old Type			●	●	●		
31		1316 206 037		Fork	1	New Type			●	●	●		
31		1316 206 017		Fork	1	Old Type				●			
31		1316 206 038		Fork	1	New Type				●			
32		1315 206 046	81 32518 0231	Fork	1	Old Type		●					
32		1315 206 052		Fork	1	New Type		●					
32		1315 206 047		Fork	1	Old Type		●					
32		1315 206 053		Fork	1	New Type		●					
32		1316 206 025	81 32518 0234	Fork	1	Old Type			●	●	●		
32		1316 206 033		Fork	1	New Type			●	●	●		
32		1316 206 026		Fork	1	Old Type				●			
32		1316 206 034		Fork	1	New Type				●			
32		1316 206 027		Fork	1	Old Type				●			
32		1316 206 035		Fork	1	New Type				●			
33		1315 206 003		Fork	1			●					
33		1315 206 023	81 32518 0187	Fork	1			●					
33		1316 206 013	81 32518 0191	Fork	1				●	●	●		
33		1316 206 014		Fork	1					●			
34	141.163	1297 306 120	81 32526 0031	Slide	2	Old Type		●	●	●	●		
34	141.168	1316 306 015	81 32526 0039	Slide	2	New Type		●	●	●	●		
35		1315 312 017	81 32516 0125	Fork	1	Old Type		●	●	●	●		
35		1315 312 074		Fork	1	New Type		●	●	●	●		
36		1315 312 049	81 32518 0230	Rod	1	Standard		●					
36		1315 312 022	81 32518 0188	Rod	1	Extended		●					
36		1316 312 016	82 32518 0010	Rod	1	Standard			●	●	●		
36		1316 312 008	81 32518 0194	Rod	1	Extended				●			
37		0750 112 131	81 96401 0163	Cap Collar D.25x40x15	1	Standard		●	●	●	●		
38	139.331	0750 112 034	81 96401 0148	Cap Collar D.25x38x14,2	1	Extended		●		●			
39		1315 312 020	81 32739 0027	Piston	1			●	●	●	●		
40		1315 312 048	81 32638 0032	Cylinder	1			●					

## Notes

(4) 16S181 Special GP Version. This version use 16S151 GP items.  
For this version use items marked (4) together.

## Date

03 / 2006

## Table

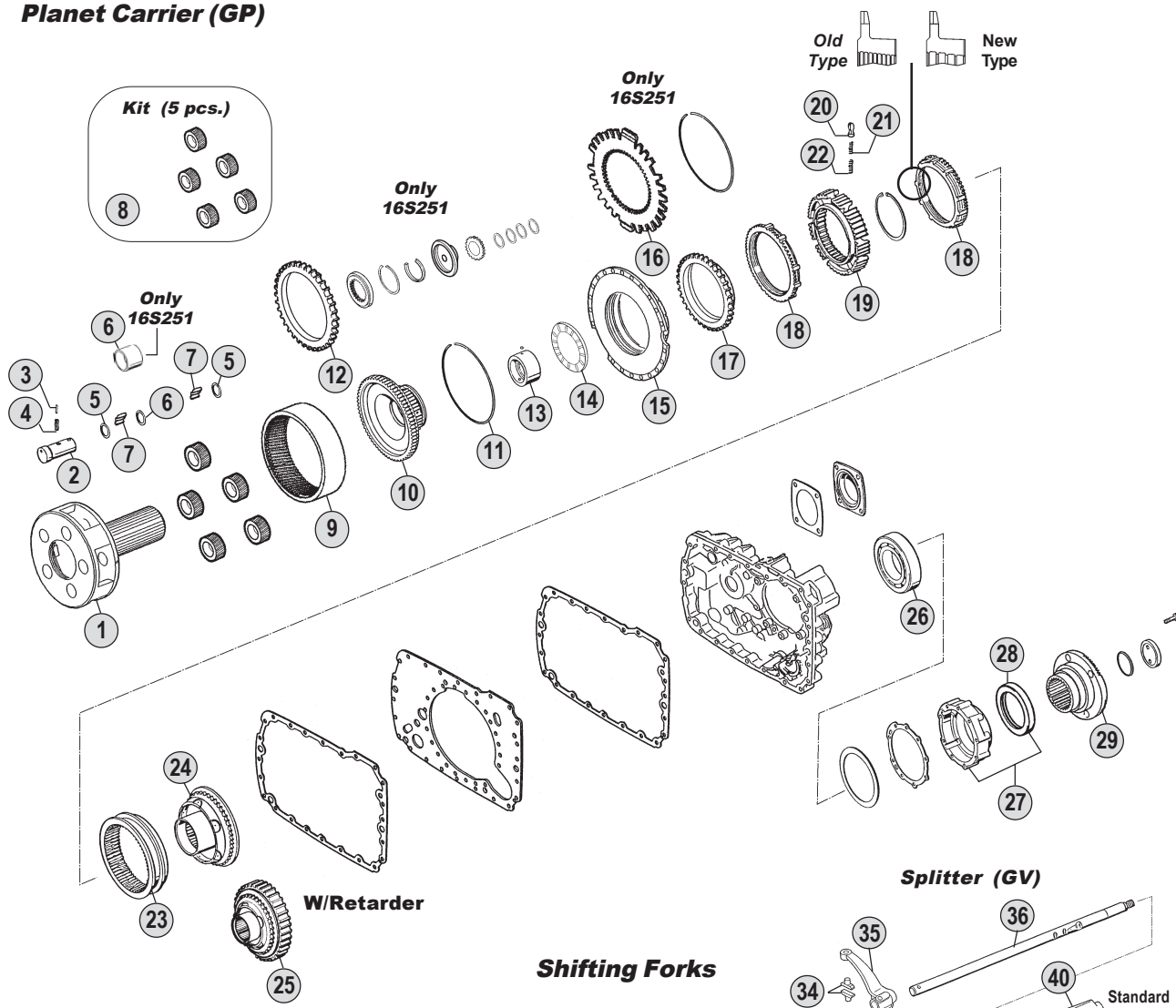
008 / B

ECO III  
From 16S151  
To 16S251

Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

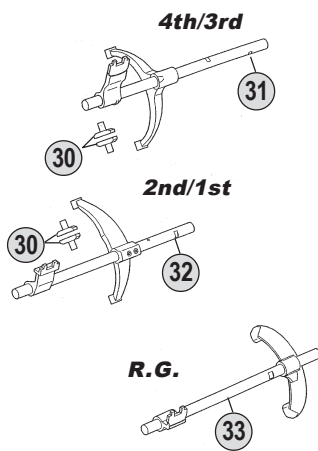
**Planet Carrier (GP)**



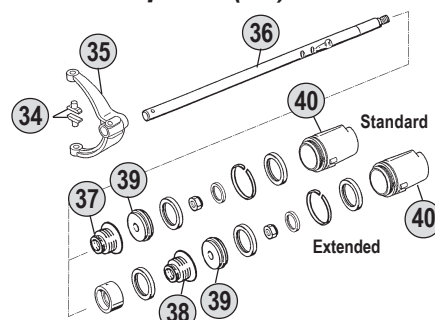
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 50</b>	<b>Kit 51</b>	<b>Kit 52</b>

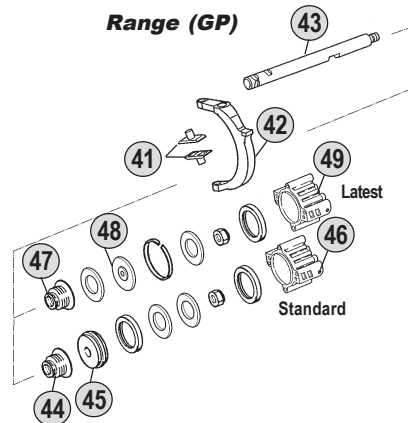
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S151</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S181</b>	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S221</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S251</b>	A: --	B: 13,80 - 0,84	C: --	D: --	E: --

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	M.A.N. no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)			
40		1316 312 015	81 32638 0037	Cylinder	1			●	●	●				
41	<b>141.085</b>	1296 334 004	81 32526 0026	Bronze Slide	2			●	●	●	●			
42		1315 334 039	81 32515 0098	Fork	1			●	●	●	●			
43		1315 334 058	81 32518 0250	Rod	1			●						
43		1316 334 010	81 32518 0218	Rod	1				●	●				
43		1316 334 011		Rod	1							●		
44	139.331	0750 112 034	81 96401 0148	Cap Collar D.25x38x14,2	1	Standard Type		●		●				
45	189.422	1296 334 039	81 32639 0019	Piston	1	Standard Type		●		●				
46		1315 334 021	81 32638 0024	Cylinder	1	Standard Type		●		●				
47		0750 112 131	81 96401 0163	Cap Collar D.25x40x15	1	Latest Type		●	●	●	●			
48		1315 334 034	81 32639 0056	Piston	1	Latest Type		●	●	●	●			
49		1315 334 056	81 32638 0040	Cylinder	1	Latest Type		●	●	●	●			
50	<b>198.339</b>	1268 298 938		Spring Slide Set	1			●	●	●	●			
51	<b>198.564</b>	CEI 198564		Spring Slide Set	1			●	●	●	●			
52	<b>198.842</b>	1295 298 933		Spring Slide Set	1			●	●	●	●			
53	<b>198.838</b>	1315 298 002	81 96502 6086	Oil Seal Kit	1			●	●	●	●			
54	<b>198.797</b>	1315 298 001	81 96601 6000	Gasket Kit	1			●	●	●	●			

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**ECO III**  
 From 16S151  
 To 16S251

## Notes

(4) 16S181 Special GP Version. This version use 16S151 GP items.  
 For this version use items marked (4) together.

## Date

03 / 2006

## Table

**008 / B**



Suitable to: **Iveco**

# Gearboxes Index

## EcoSplit I

**16S130****16S160****16S190****16S160/1****16S190/1**

## EcoSplit II

**16S150****16S220**

## EcoSplit III

**16S151****16S181****16S221****IVECO  
INDEX**



suitable to :

**Z.F.****EcoSplit I****From 16S112 to 16S190****Application**

	<b>16S112</b>	<b>16S130</b>	<b>16S160</b>	<b>16S190</b>
	(1296)	(1295)	(1297)	(1297)
<b>MERCEDES</b>				
<b>M.A.N.</b>				
<b>IVECO</b>				
<b>R.V.I.</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**Ratios**

	<b>R.10,14-0,72</b>	<b>R.11,46-0,85</b>	<b>R.13,68-1,00</b>	<b>R.14,29-0,82</b>	<b>R.17,06-1,00</b>
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>16S112</b>					
<b>16S130</b>					
<b>16S160</b>					
<b>16S190</b>					

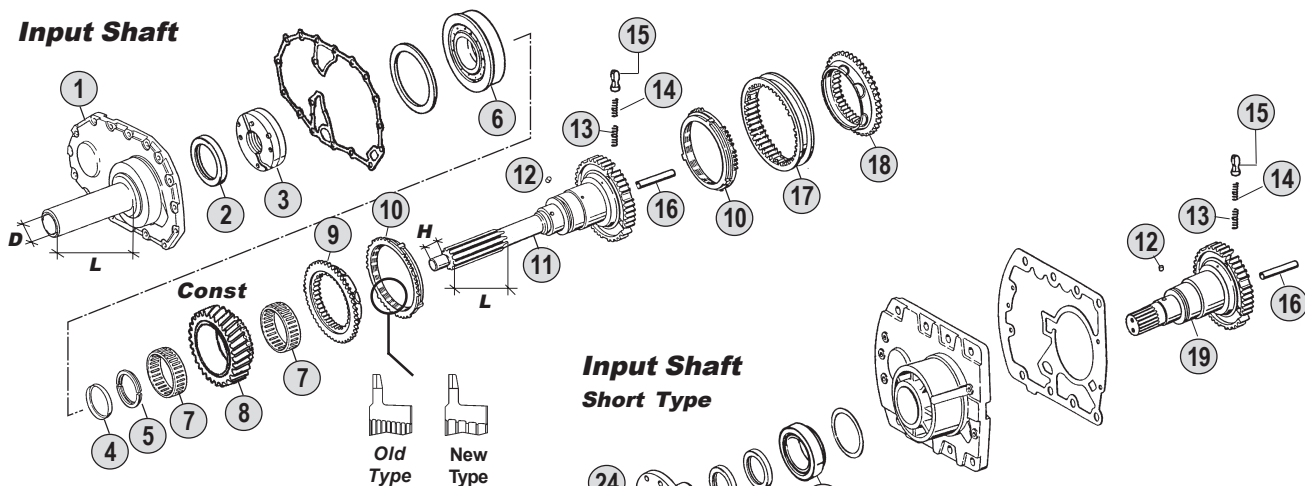
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**ECO I**  
From 16S130  
To 16S190

Suitable To : **ZF**

**16S130 - 16S160 - 16S190**

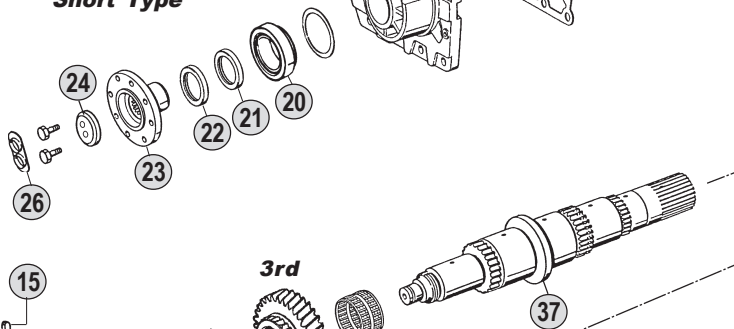
**Input Shaft**



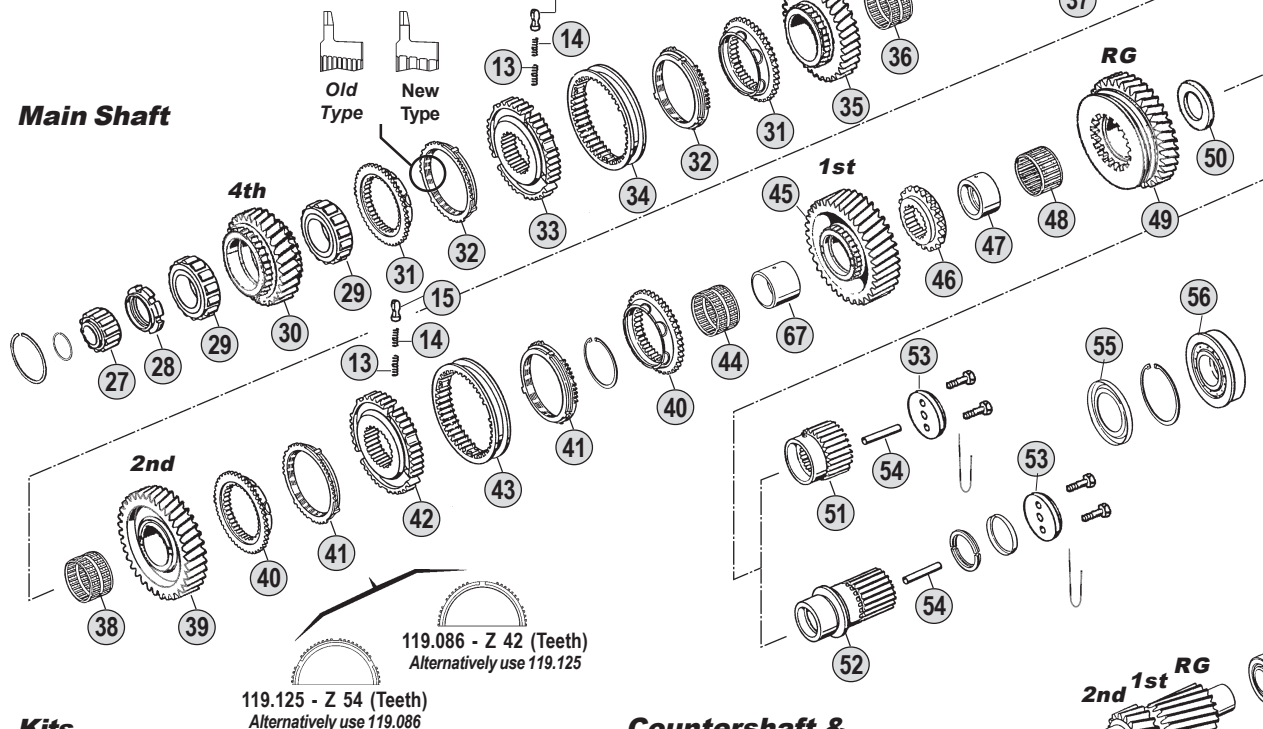
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

**Input Shaft Short Type**



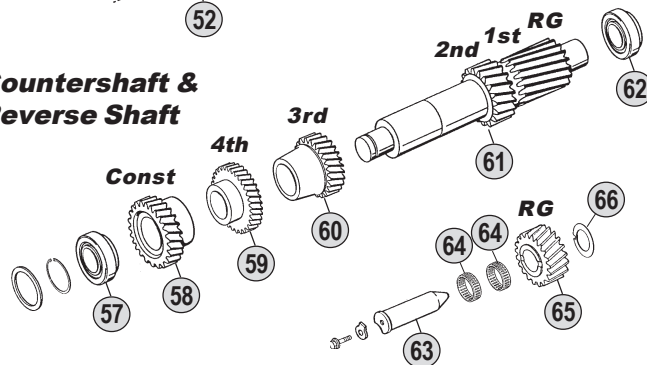
**Main Shaft**



**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S130</b>	A : 10,14 - 0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : --
<b>16S160</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00
<b>16S190</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00



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16S130 (1286)  
16S160 (1297)  
16S190 (1297)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.					IVECO no.	16S130 (1286)	16S160 (1297)	16S190 (1297)			
1		1297 302 013	8194490	Front Cover	1	L=170 - D=57	●	●	●				
1		1297 302 108	7982249	Front Cover	1	L=190 - D=57	●						
1		1297 302 169	8194830	Front Cover	1	L=190 - D=62,61	●	●					
1		1297 302 043	8190711	Front Cover	1	L=170 - D=62,61		●	●				
1		1297 302 107	7982248	Front Cover	1	L=160 - D=62,61		●					
2		0750 111 002	9981327	Oil Seal 48x75x8	1		●						
2		0634 310 733	8197128	Oil Seal 90x110x13	1	(1)	●		●				
2		0734 310 386	42533218	Oil Seal 55x75x8	1	(5)	●	●	●				
3	<b>280.348</b>	1295 202 041	8190359	Oil Pump	1		●	●	●				
4	169.754	0730 061 816	9931723	Securing Ring	1		●	●	●				
4	169.755	0730 062 579	8121935	Securing Ring	1	S.4,20 mm	●	●	●				
5		0730 103 244	42480821	Split Ring T.4,30 mm	1	S.4,30 mm (2)	●	●	●				
5		0730 103 935	42492467	Split Ring T.3,80 mm	1	S.3,80 mm (2)	●	●	●				
5		0730 105 156	8121934	Split Ring T.4,00 mm	1	S.4,00 mm (3)	●	●	●				
5		0730 105 154	8121932	Split Ring T.3,80 mm	1	S.3,80 mm (3)	●	●	●				
6	130.305	0750 118 131	1905088	Bearing D.80x150x27,50	1		●	●	●				
7	137.082	0735 320 786	42493968	Needle Cage D.88x96x24,50	2		●						
7	137.153	0735 320 896	8123819	Needle Cage D.88x96x29	2			●	●				
8	<b>145.276</b>	1295 302 071	8123585	Constant Gear 28 T	1					AC	●		
8	145.489	1295 302 070	42492526	Constant Gear 30 T	1					B	●		
8	145.541	1295 302 122	93157443	Constant Gear 29 T	1					D	●		
8	<b>145.466</b>	1297 302 177	93157252	Constant Gear 30 T	1					B		●	●
8	<b>145.406</b>	1297 302 176	8190712	Constant Gear 28 T	1					C		●	●
8	<b>145.405</b>	1297 302 250	42536778	Constant Gear 29 T	1					D		●	●
8	<b>145.407</b>	1297 302 241	8198793	Constant Gear 26 T	1					E		●	●
9	<b>109.072</b>	1295 304 278	7982177	Synchronizer Cone	1		●	●	●				
10	<b>119.084</b>	1295 304 004	7982165	Synchronizer Ring	2	Old Type	●	●	●				
10	<b>119.175</b>	1304 304 686	42536530	Synchronizer Ring	2	New Type	●	●	●				
11	102.230	1295 202 004	8194489	Input Shaft	1	L=115H=32	●						
11	102.253	1295 202 012	7982147	Input Shaft	1		●						
11		1295 202 025		Input Shaft	1		●						
11		1295 221 003		Input Shaft	1	NMV130 (Clutch PTO)	●						
11	102.236	1297 202 009	8190709	Input Shaft	1	L=125H=31,5			●	●			
11		1297 221 009		Input Shaft	1	NMV130 (Clutch PTO)				●			
12		0635 470 012	9931670	Pin	1		●	●	●				
13	<b>156.037</b>	0732 040 385	8832940	Outer Spring De.6x34	3		●	●	●				
14	<b>156.036</b>	0732 040 386	9931785	Inner Spring De.3x34	3		●	●	●				
15	<b>160.116</b>	1240 304 278	2960200	Pressure piece	3		●	●	●				
16	188.208	0730 062 323	93190980	Oil Tube	1		●	●	●				
17	<b>154.097</b>	1295 304 002	7982164	Sliding Sleeve	1		●	●	●				
18	<b>109.072</b>	1295 304 278	7982177	Synchronizer Cone	1		●	●	●				
19	190.168	1295 202 036	8190360	Input shaft	1		●						
19	102.237	1297 202 044	8123821	Input Shaft	1				●	●			
20		0750 117 651	1905420	Bearing 50x90x24,7	1		●	●	●				
21		0634 310 648	7984238	Oil Seal 70x90x10	1		●	●	●				

## Notes

- (1) Only for input Shaft 1295 221 003 - 1297 221 009
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (5) Only for input Shaft 1295 202 025 - 1297 202 009
- (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30 ) - Standard Syncro Ring Ø 192 mm ( Z 63 or 54 ) Use items marked (6) together

## Date

03 / 2006

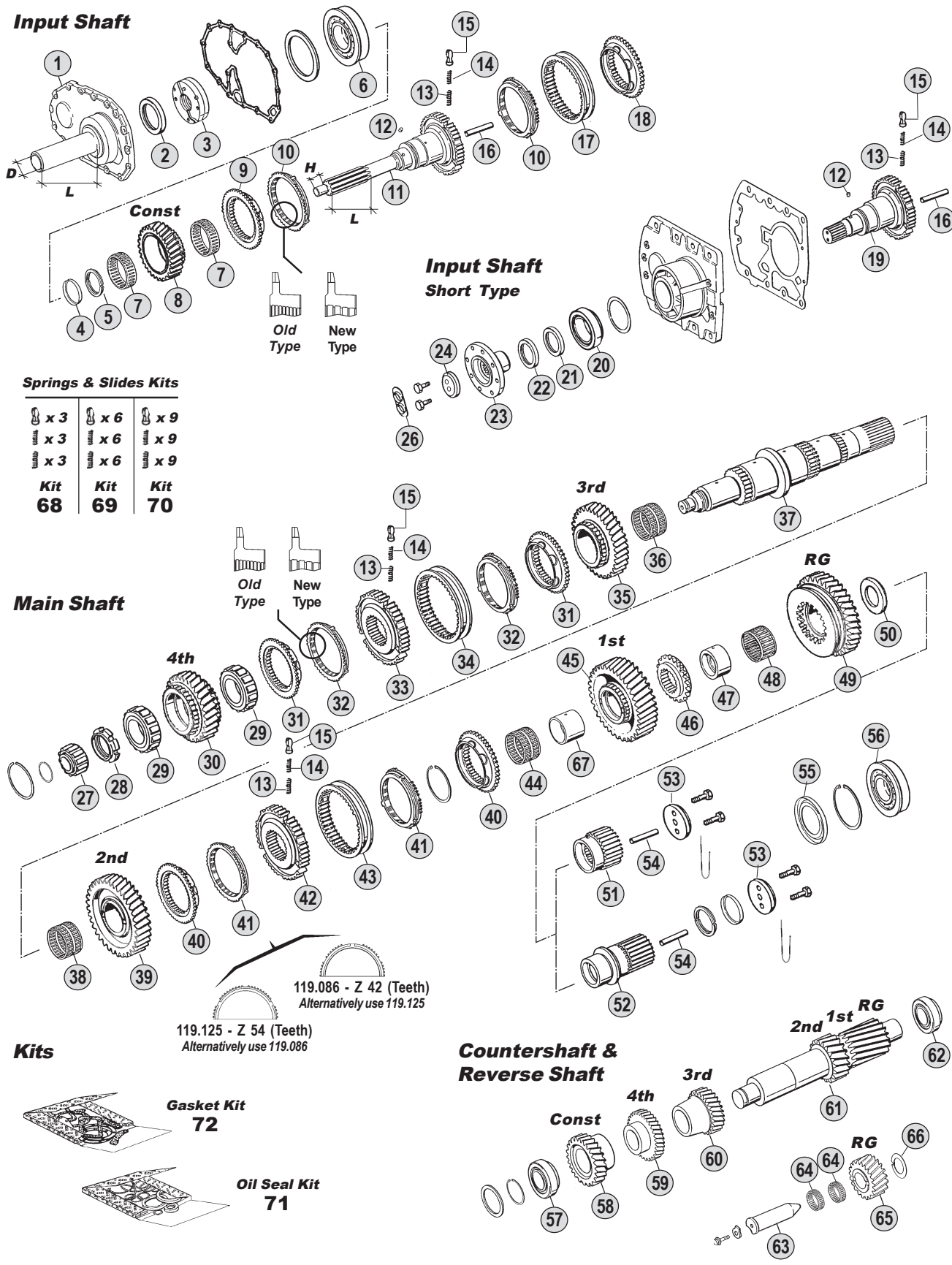
## Table

**009 / A**

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Suitable To : **ZF**

**16S130 - 16S160 - 16S190**



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**Ratios**

<b>16S130</b>	A : 10,14 - 0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : --
<b>16S160</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00
<b>16S190</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00





16S130 (1286)  
16S160 (1297)  
16S190 (1297)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					IVECO no.	16S130 (1286)	16S160 (1297)	16S190 (1297)		
22		0734 300 140	42493153	Oil Seal 70x90x10	1		●	●	●			
23	155.135	1286 304 026	7982145	Drive Flange	1	D.150-8H.	●	●	●			
23		1297 302 171		Drive Flange	1	D.150-8H.			●			
24	188.078	1269 302 065	9985488	Stop Washer	1		●	●	●			
26		1269 302 164	73140828	Stop Washer	1		●	●	●			
27	137.081	0750 118 010	7982096	Roller Cage D.30x60x25,50	1		●					
27	137.113	0750 118 038	7982073	Roller Cage D.35x68x27,50	1			●	●			
28	187.412	0737 502 092	7982081	Grooved Nut M60x1,5	1		●	●	●			
29	137.083	0750 118 005	7982094	Roller Cage D.63x97,5x34,80	2		●					
29	137.157	0750 118 220	93157137	Roller Cage D.63x97,5x37,50	2			●	●			
30	146.212	1295 304 135	8123547	Gear 4th Speed 30 T	1		●					
30	146.356	1295 304 136	7982170	Gear 4th Speed 28 T	1			●				
30	146.454	1295 304 236	93157447	Gear 4th Speed 26 T	1		●					
30	146.384	1297 304 267	42492495	Gear 4th Speed 28 T	1			●	●			
30	146.318	1297 304 260	8190720	Gear 4th Speed 30 T	1			●	●			
30	146.315	1297 304 318	93157144	Gear 4th Speed 26 T	1			●	●			
30	146.294	1297 304 413	8198814	Gear 4th Speed 29 T	1			●	●			
31	109.072	1295 304 278	7982177	Synchronizer Cone	2		●	●	●			
32	119.084	1295 304 004	7982165	Synchronizer Ring	2	Old Type	●	●	●			
32	119.175	1304 304 686	42536530	Synchronizer Ring	2	New Type	●	●	●			
33	157.110	1297 304 031	7982257	Synchronizer Hub	1		●	●	●			
34	154.097	1295 304 002	7982164	Sliding Sleeve	1		●	●	●			
35		1295 304 269		Gear 3rd Speed 25 T	1		●					
35	145.495	1295 304 127	7982168	Gear 3rd Speed 32 T	1		●					
35	145.277	1295 304 128	8123548	Gear 3rd Speed 34 T	1		●					
35	145.470	1297 304 266	42492494	Gear 3rd Speed 32 T	1			●	●			
35	145.450	1297 304 261	8190719	Gear 3rd Speed 34 T	1			●	●			
35	145.377	1297 304 414	8198809	Gear 3rd Speed 34 T	1			●	●			
36	137.084	0735 320 418	42492514	Needle Cage D.82x90x49	1		●					
36	137.112	0735 320 451	7982067	Needle Cage D.82x90x60	1			●	●			
37		1295 304 273	194473	Main Shaft	1		●					
37	103.075	1295 304 245	7982175	Main Shaft	1		●					
37	103.140	1295 304 250	93157446	Main Shaft	1		●					
37	103.132	1297 304 181	7982265	Main Shaft	1			●	●			
37	103.098	1297 304 193	8198801	Main Shaft	1			●	●			
38	137.112	0735 320 451	7982067	Needle Cage D.82x90x60	1		●					
38	137.084	0735 320 418	42492514	Needle Cage D.82x90x49	1		●					
38	137.109	0735 320 452	7982068	Needle Cage D.82x90x55	1			●	●			
39		1295 304 271		Gear 2nd Speed 34 T	1		●					
39	145.501	1295 304 120	7982167	Gear 2nd Speed 37 T	1		●					
39	145.278	1295 304 121	8123549	Gear 2nd Speed 38 T	1		●					
39	145.500	1297 304 269	42492493	Gear 2nd Speed 37 T	1			●	●			
39	145.375	1297 304 442	93156030	Gear 2nd Speed 38 T	1			●	●			
40	109.074	1297 304 196	7982268	Synchronizer Cone	2		●	●	●			
40	109.072	1295 304 278	7982177	Synchronizer Cone	2	(6)	●					

## Notes

- (1) Only for input Shaft 1295 221 003 - 1297 221 009
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (5) Only for input Shaft 1295 202 025 - 1297 202 009
- (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30 ) - Standard Syncro Ring Ø 192 mm ( Z 63 or 54 ) Use items marked (6) together

## Date

03 / 2006

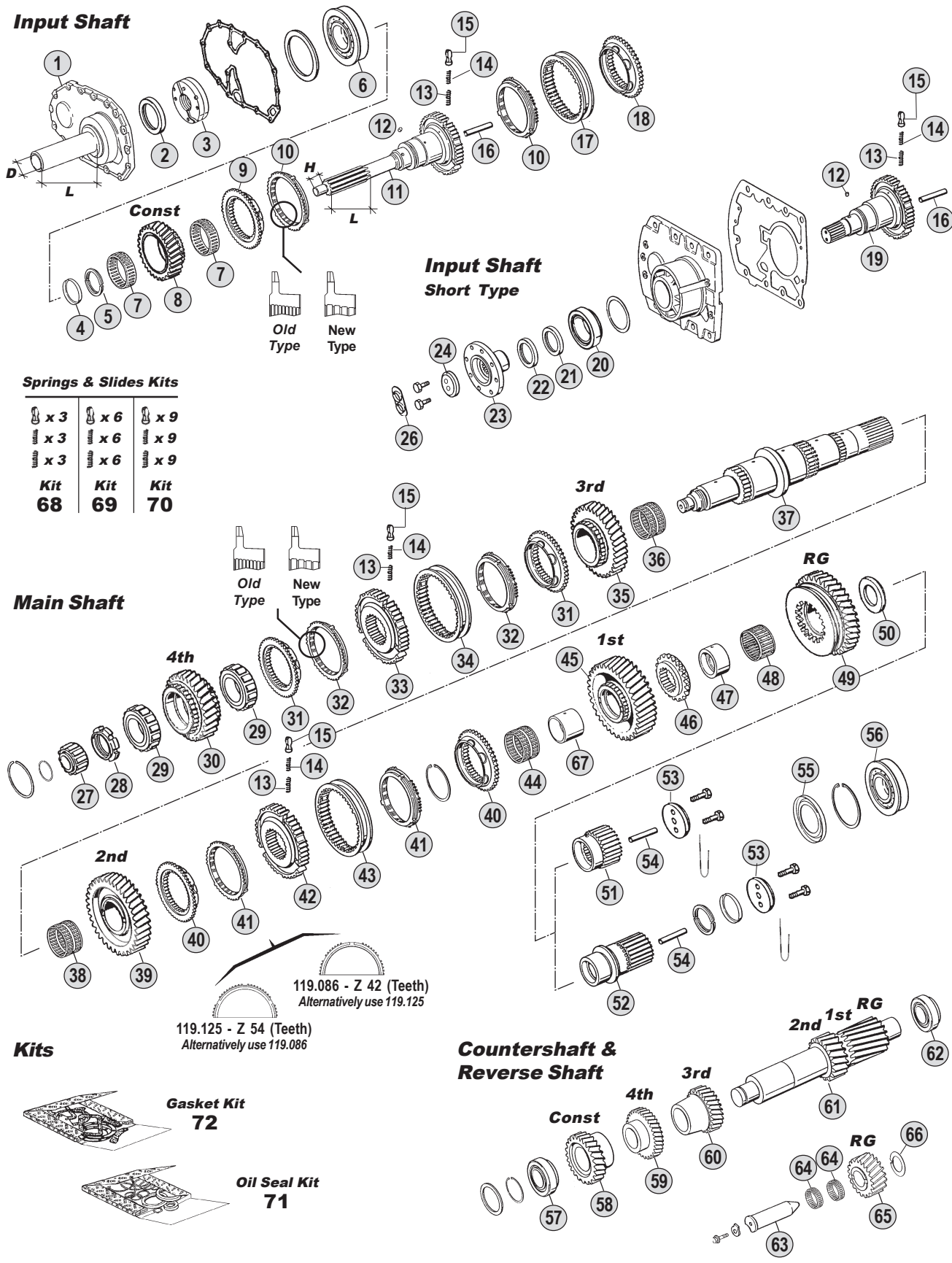
## Table

009 / A

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Suitable To : **ZF**

**16S130 - 16S160 - 16S190**



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**Ratios**

<b>16S130</b>	A : 10,14 - 0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : --
<b>16S160</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00
<b>16S190</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00



Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					IVECO no.	16S130 (1286)	16S160 (1297)	16S190 (1297)		
41	119.125	1296 304 135	93191133	Synchronizer Ring	2	Z 54 - Alt. use 119.086	●	●	●			
41	119.086	1246 304 278	7982106	Synchronizer Ring 42 T	2	Z 42 - Alt. use 119.125	●	●	●			
41	119.084	1295 304 004	7982165	Synchronizer Ring	2	(6)	●					
42	157.111	1297 304 195	7982267	Synchronizer Hub	1		●	●	●			
42	157.110	1297 304 031	7982257	Synchronizer Hub	1	(6)	●					
43	154.051	1257 304 020	2964159	Sliding Sleeve 1st-2nd Speed	1		●	●	●			
43	154.097	1295 304 002	7982164	Sliding Sleeve	1	(6)	●					
44	137.159	0735 320 548		Needle Cage D.70x78x46	1	A	●					
44	137.085	0735 320 496	7982071	Needle Cage D.70x78x55	1	BCD	●					
44	137.110	0735 320 487	42492253	Needle Cage D.82x90x68	1			●	●			
45		1295 304 270		Gear 1st Speed 41 T	1	A	●					
45	145.506	1295 304 203	7982172	Gear 1st Speed 44 T	1	BD	●					
45	145.279	1295 304 202	8123550	Gear 1st Speed 47 T	1	C	●					
45	145.507	1297 304 270	42492497	Gear 1st Speed 44 T	1	BD		●	●			
45	145.376	1297 304 441	93156031	Gear 1st Speed 47 T	1	CE		●	●			
46	109.184	1295 304 024		Engaging Ring	1	A	●					
46	109.075	1295 304 206	7982173	Engaging Ring	1	BCD	●					
46	109.178	1297 304 154	7982263	Engaging Ring	1			●	●			
47	117.203	1295 304 012	7982166	Bush D.60x75x38	1	ABC	●					
47	117.318	1297 304 034	42492291	Bush	1	BC		●	●			
48	137.086	0750 115 059	7982087	Needle Cage D.75x83x40	1		●					
48	137.111	0735 320 486	7982069	Needle Cage D.78x86x44	1			●	●			
49		1295 304 272		Reverse Gear 39 T	1	A	●					
49	147.138	1295 304 201	7982171	Reverse Gear 39 T	1	BD	●					
49	147.093	1295 304 200	8123551	Reverse Gear 38 T	1	C	●					
49	147.109	1297 304 149	42492496	Reverse Gear 39 T	1	BD		●	●			
49	147.140	1297 304 148	42492294	Reverse Gear 38 T	1	CE		●	●			
50	169.409	1295 304 240	7982174	Thrust Washer	1	ABC	●					
50	169.757	1297 304 381	93155824	Thrust Washer	1	BC		●	●			
51	157.112	1295 304 248	7982176	Sun Gear 27 T	1	ABC	●					
51	157.177	1297 304 187	7982266	Sun Gear 27 T	1	BC		●	●			
52	157.207	1295 304 251	93157448	Sun Gear 24 T	1	D	●					
52	157.198	1297 304 439	8198815	Sun Gear 24 T	1	DE		●	●			
53	188.076	1272 304 021	42480849	Stop Washer	1		●	●	●			
54		0730 061 842	2980534	Oil Tube	1		●	●	●			
55		1295 304 129	7982169	Oil Collector	1	ABC	●					
55		1297 301 004	7982244	Oil Collector	1	D	●					
55		1297 301 004	7982244	Oil Collector	1			●	●			
56	130.240	0750 118 153	8196977	Bearing D.60x130x31	1	ABC	●					
56		0750 118 137	1905150	Bearing D.80x140x26	1	D	●					
56		0750 118 006	7982095	Bearing D.65x140x33	1	BC		●	●			
56		0750 118 180	1905030	Bearing D.80x140x33	1	DE		●	●			
57	130.242	0750 117 010	42492259	Bearing D.50,80x100x35	1		●	●	●			
58	146.210	1295 303 101	42532351	Constant Gear 34 T	1	AC	●					
58	146.354	1295 303 036	42492571	Constant Gear 31 T	1	B	●					

## Notes

- (1) Only for input Shaft 1295 221 003 - 1297 221 009
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (5) Only for input Shaft 1295 202 025 - 1297 202 009
- (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30 ) - Standard Syncro Ring Ø 192 mm ( Z 63 or 54 ) Use items marked (6) together

## Date

03 / 2006

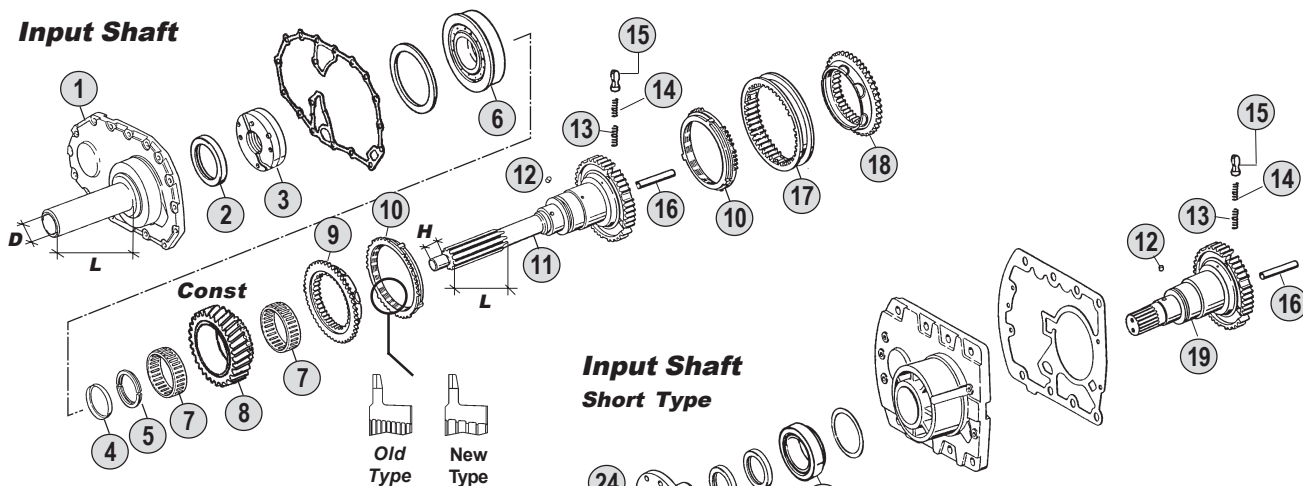
## Table

009 / A

Suitable To : **ZF**

**16S130 - 16S160 - 16S190**

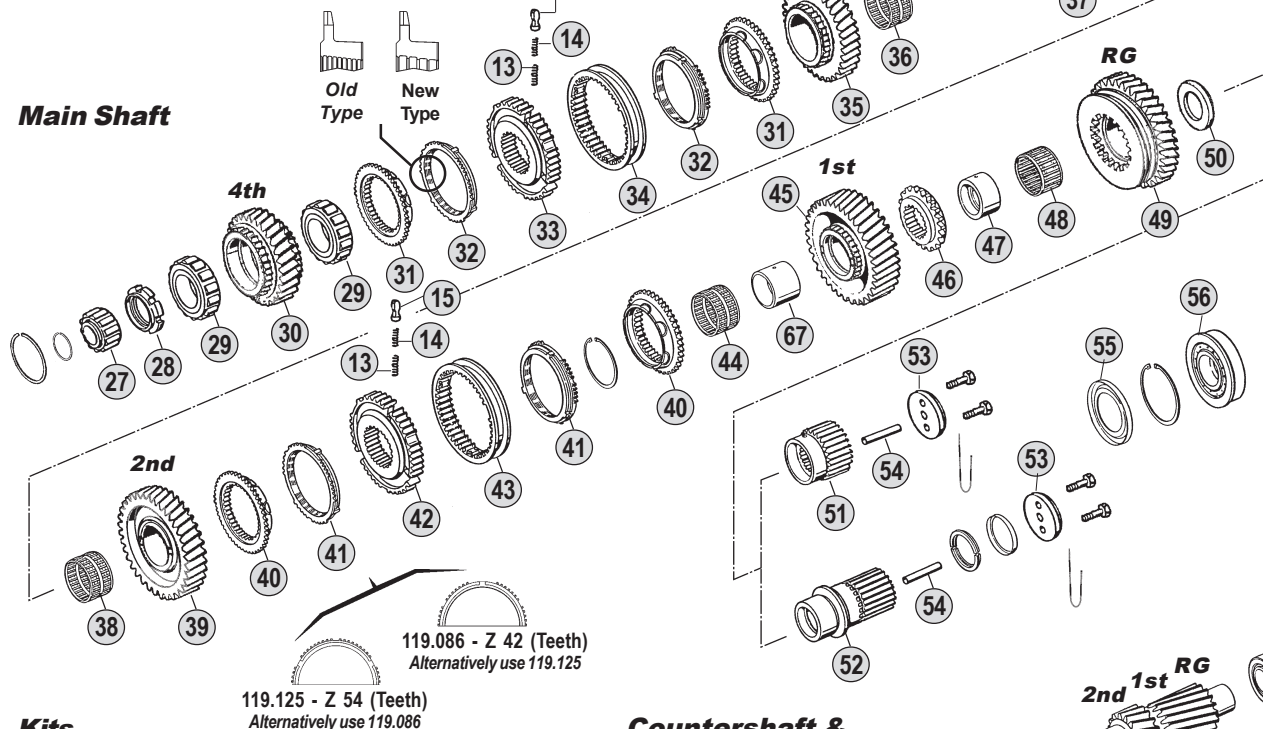
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

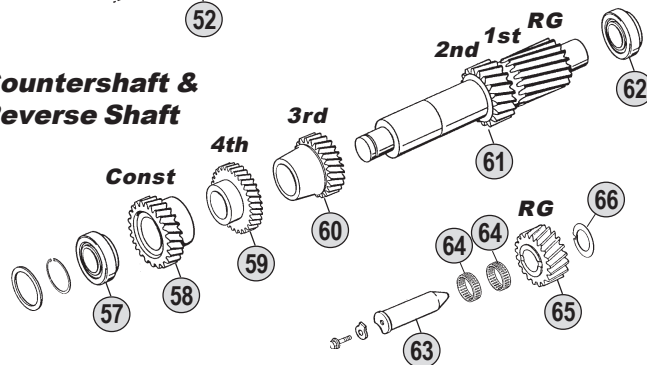
**Main Shaft**



**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S130</b>	A : 10,14 - 0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : --
<b>16S160</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00
<b>16S190</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00

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16S130 (1286)  
16S160 (1297)  
16S190 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	IVECO no.					16S130 (1286)	16S160 (1297)	16S190 (1297)			
58	146.457	1295 303 060	95157444	Constant Gear 32 T	1		D	●					
58	<b>146.383</b>	1297 303 074	93158425	Constant Gear 31 T	1		B		●	●			
58	<b>146.322</b>	1297 303 066	8190715	Constant Gear 34 T	1		C		●	●			
58	<b>146.319</b>	1297 303 098	93157141	Constant Gear 32 T	1		D		●	●			
58	<b>146.321</b>	1297 303 086	8198799	Constant Gear 35 T	1		E		●	●			
59	<b>146.209</b>	1295 303 027	8123587	Gear 4th Speed 31 T	1		AC	●					
59	146.413	1295 303 028	7982161	Gear 4th Speed 34 T	1		B	●					
59	146.461	1295 303 094	93157445	Gear 4th Speed 35 T	1		D	●					
59	<b>146.382</b>	1297 303 072	93158425	Gear 4th Speed 34 T	1		B		●	●			
59	<b>146.381</b>	1297 303 065	8190716	Gear 4th Speed 31 T	1		C		●	●			
59	<b>146.415</b>	1297 303 097	42531627	Gear 4th Speed 35 T	1		D		●	●			
59	<b>146.416</b>	1297 303 123	8198800	Gear 4th Speed 32 T	1		E		●	●			
60		1295 303 071	194470	Gear 3rd Speed 36 T	1		A	●					
60	146.355	1295 303 025	7982160	Gear 3rd Speed 28 T	1		BD	●					
60	<b>146.211</b>	1295 303 026	8123588	Gear 3rd Speed 25 T	1		C	●					
60	<b>146.357</b>	1297 303 073	7982250	Gear 3rd Speed 28 T	1		BD		●	●			
60	<b>146.421</b>	1297 303 067	8190714	Gear 3rd Speed 25 T	1		C		●	●			
60	<b>146.422</b>	1297 303 132	8198798	Gear 3rd Speed 26 T	1		E		●	●			
61		1295 303 072	194467	Countershaft	1		A	●					
61	105.119	1295 303 067	7982163	Countershaft 19-23 T	1		BD	●					
61	<b>105.060</b>	1295 303 066	8123589	Countershaft 17-20 T	1		C	●					
61	<b>105.092</b>	1297 303 075	7982253	Countershaft 19-23 T	1		BD		●	●			
61	<b>105.093</b>	1297 303 140	8198794	Countershaft 17-20 T	1		CE		●	●			
62	130.243	0750 117 008	42492517	Bearing D.50x110x42	1			●					
62	<b>130.308</b>	0750 117 009	7982090	Bearing D.49,2x103,1x43,6	1				●	●			
63	107.108	1295 305 056	8121930	Reverse Gear Pin	1			●	●	●			
64	<b>137.007</b>	0750 115 011	7982086	Needle Cage D.45x53x21	2			●	●	●			
65	147.153	1297 305 003		Reverse Gear 21 T	1		A	●					
65	147.133	1295 305 051	42492574	Reverse Gear 21 T	1		BD	●					
65	147.094	1295 305 052	42492275	Reverse Gear 24 T	1		C	●					
65	147.133	1295 305 051	42492574	Reverse Gear 21 T	1		BD		●	●			
65	147.094	1295 305 052	42492275	Reverse Gear 24 T	1		CE		●	●			
66	<b>169.234</b>	0730 150 064	1274314	Thrust Washer	1			●	●	●			
67	117.246	1297 304 035	7982259	Bush	1				●	●			
68	<b>198.339</b>	1268 298 938		Spring Slide Set	1			●	●	●			
69	<b>198.564</b>	CEI 198564		Spring Slide Set	1			●	●	●			
70	<b>198.842</b>	1295 298 933		Spring Slide Set	1			●	●	●			
71	<b>198.428</b>	1295 298 960	8124710	Oil Seal Ring Kit	1			●	●	●			
72	<b>198.427</b>	1295 298 915	8124709	Gasket Kit	1			●	●	●			

ECO I

From 16S130  
To 16S190

## Notes

- (1) Only for input Shaft 1295 221 003 - 1297 221 009
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (5) Only for input Shaft 1295 202 025 - 1297 202 009
- (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30) - Standard Syncro Ring Ø 192 mm (Z 63 or 54) Use items marked (6) together

## Date

03 / 2006

## Table

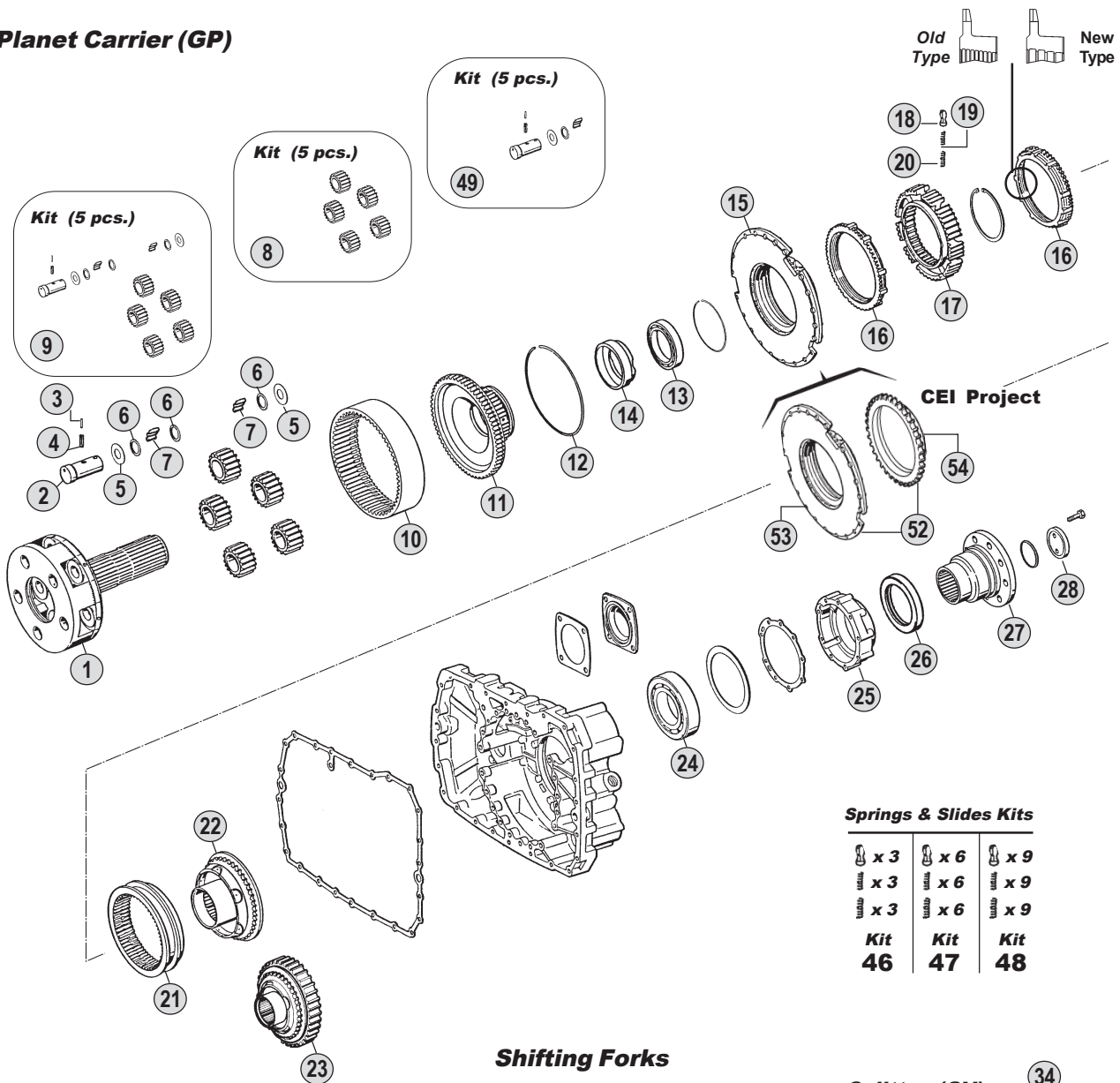
009 / A

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Suitable To : **ZF**

**16S130 - 16S160 - 16S190**

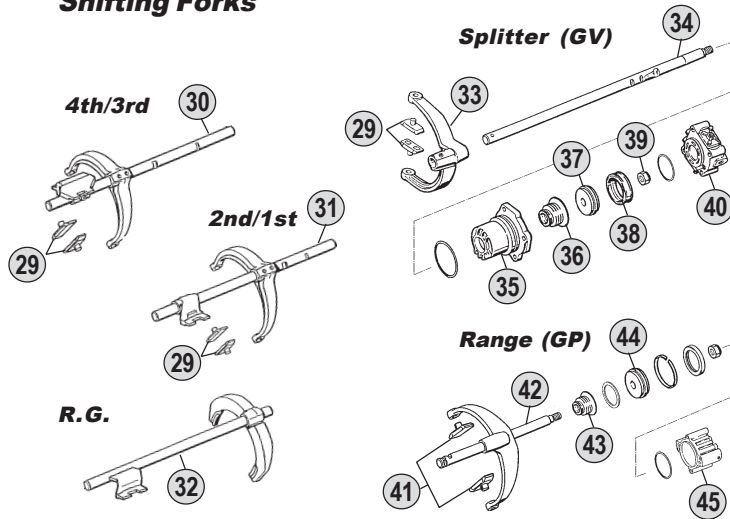
**Planet Carrier (GP)**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

**Shifting Forks**



**Kits**



**Ratios**

<b>16S130</b>	A : 10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : --
<b>16S160</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00
<b>16S190</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00

16S130 (1286)  
16S160 (1297)  
16S190 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	IVECO no.					16S130 (1286)	16S160 (1297)	16S190 (1297)			
1	190.169	1295 232 044	93157136	Planetary Carrier	1		ABC	●					
1	190.395	1297 232 045	93157145	Planetary Carrier	1		D	●					
1	190.396	1297 232 039	8194344	Planetary Carrier	1		BC	●	●				
1	190.395	1297 232 045	93157145	Planetary Carrier	1		DE	●	●				
1		1316 232 005	42536093	Planetary Carrier	1	(8)	E		●				
2	<b>107.089</b>	1269 332 036	7982131	Planet Shaft	5		ABC	●					
2	107.163	1297 332 109	8190756	Planet Shaft	5		D	●					
2	107.163	1297 332 109	8190756	Planet Shaft	5				●	●			
2	107.165	1312 332 026	8198829	Planet Shaft	5	(8)				●			
3	160.191	0631 329 017	9920765	Lock Pin D.3x24	5			●	●	●			
3	160.195	0631 329 167	93191213	Lock Pin D.3x26	5	(8)				●			
4	160.192	0631 329 050	8195251	Lock Pin D.5x24	5			●	●	●			
4	160.194	0631 329 051	93191212	Lock Pin D.5x26	5	(8)				●			
5	169.408	0501 305 887	42484062	Thrust Washer D.29x57,50x1,50	10		ABC	●					
5	169.753	0501 306 212	7981912	Thrust Washer D.29x64x1,5	10		D	●					
5	169.753	0501 306 212	7981912	Thrust Washer D.29x64x1,5	10				●	●			
5	169.759	0501 308 981	93156113	Thrust Washer	10	(8)				●			
6	<b>169.410</b>	0730 103 846	42484076	Spacer Ring D.29x39x1,00	15			●	●	●			
6	169.744	0730 107 168	8198826	Spacer Ring	15	(8)				●			
7	<b>171.016</b>	0735 470 057	42484079	Roller Set D.6x14,75 (180 pcs)	180		ABC	●					
7	171.045	0750 119 109	93157146	Roller Set D.10x16,80 (120 pcs)	120		D	●					
7	171.045	0750 119 109	93157146	Roller Set D.10x16,80 (120 pcs)	120				●	●			
7	171.062	0750 119 116	93191132	Roller D.10x16,8	140	(8)				●			
8	<b>198.357</b>	1295 232 027	7982154	Planetary Gear Set (5 pcs)	1		ABC	●					
8	198.810	1297 232 024	93156046	Planetary Gear Set (5 pcs)	1		D	●					
8	198.803	1297 232 023	7982241	Planetary Gear Set (5 pcs)	1		BC		●	●			
8	198.810	1297 232 024	93156046	Planetary Gear Set (5 pcs)	1		DE		●	●			
8	198.801	1312 232 014	8198825	Planetary Gear Set (5 pcs)	1	(8)	E			●			
9	198.562	1296 298 904		Planetary Gear Set	1		ABC	●					
9	<b>198.704</b>	1297 298 912		Planetary Gear Set	1		BC		●	●			
9		1297 298 919		Planetary Gear Set	1		DE		●	●			
10	123.162	1295 332 053	8123432	Crown Gear 83 T	1		ABC	●					
10	123.208	1295 332 086	8198832	Crown Gear 86 T	1		D	●					
10	123.217	1297 332 080	8121936	Crown Gear 83 T	1		BC		●	●			
10	123.208	1295 332 086	8198832	Crown Gear 86 T	1		DE		●	●			
11	150.112	1295 332 021	7982205	Flange Gear 83 T	1		ABC	●					
11	150.137	1297 332 035	93156047	Flange Gear 86 T	1		D	●					
11	150.138	1297 332 017	7982273	Flange Gear 83 T	1		BC		●	●			
11	150.137	1297 332 035	93156047	Flange Gear 86 T	1		DE		●	●			
11	150.134	1297 332 120	8198830	Flange Gear 86 T	1	(8)	E			●			
12	111.129	0730 505 055	42492409	Locking Wire	1		ABC	●					
12	111.198	0730 505 056	8198833	Locking Wire	1		D	●					
12	111.129	0730 505 055	42492409	Locking Wire	1		BC		●	●			
12	111.198	0730 505 056	8198833	Locking Wire	1		DE		●	●			
13	130.244	0750 116 166	7981956	Bearing D.75x105x16	1		ABC	●					

## Notes

(8) New Reinforced Style. Use items marked (8) together

## Date

03 / 2006

## Table

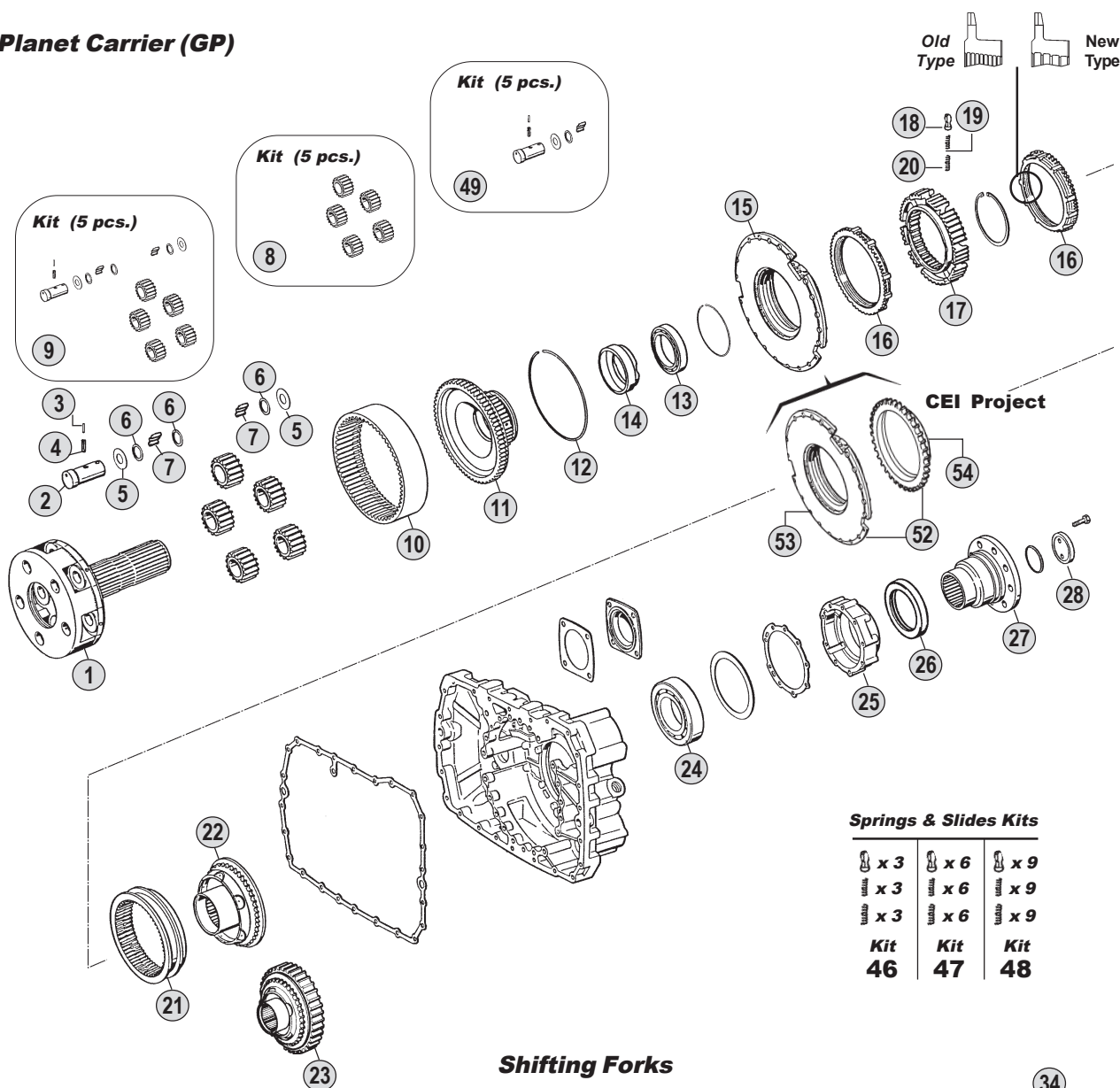
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Suitable To : **ZF**

**16S130 - 16S160 - 16S190**

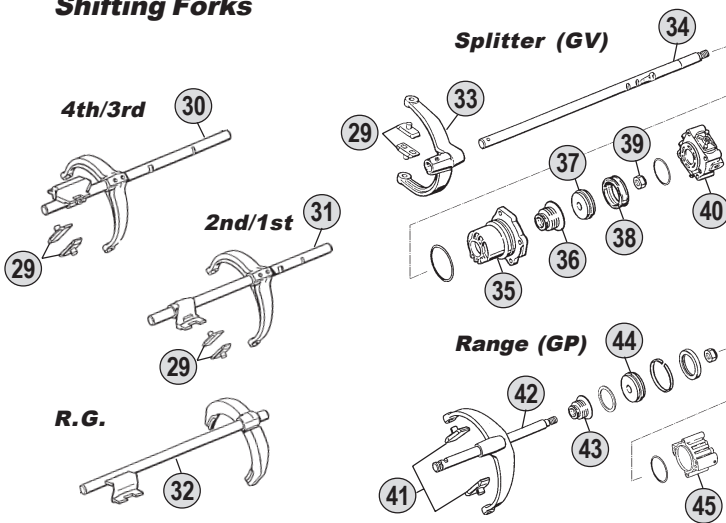
**Planet Carrier (GP)**



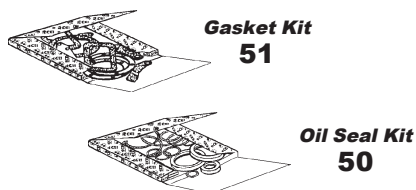
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

**Shifting Forks**



**Kits**



**Ratios**

<b>16S130</b>	A : 10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : --
<b>16S160</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00
<b>16S190</b>	A : --	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00

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16S130 (1286)  
16S160 (1297)  
16S190 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	IVECO no.					16S130 (1286)	16S160 (1297)	16S190 (1297)			
13	130.310	0750 116 165	42492449	Bearing D.80x110x16	1		D	●					
13	130.310	0750 116 165	42492449	Bearing D.80x110x16	1			●	●				
13	130.311	0635 338 035	8195468	Bearing D.100x125x13	1	(8)			●				
14		1297 332 002	42492428	Ring	1		D	●					
14		1297 332 002	42492428	Ring	1			●	●				
15	198.358	1296 233 006	7982213	Synchronizer Cone	1			●	●	●			
16	119.085	1296 333 022	7982226	Synchronizer Ring	2	Old Type		●	●	●			
16	119.172	1296 333 045	42532826	Synchronizer Ring	2	New Type		●	●	●			
17	157.113	1296 333 002	7982225	Synchronizer Hub	1			●	●	●			
17	157.183	1297 333 115	8198839	Synchronizer Hub	1	(8)				●			
18	160.116	1240 304 278	2960200	Pressure piece	9			●	●	●			
19	156.036	0732 040 386	9931785	Inner Spring De.3x34	9			●	●	●			
20	156.037	0732 040 385	8832940	Outer Spring De.6x34	9			●	●	●			
21	154.098	1296 333 023	7982227	Sliding Sleeve	1			●	●	●			
22	198.359	1295 233 025	7982157	Synchronizer Cone (36 Spl.)	1		ABC	●					
22	198.374	1313 233 001	93156049	Synchronizer Cone (38 Spl.)	1		D	●					
22	198.374	1313 233 001	93156049	Synchronizer Cone (38 Spl.)	1				●	●			
22	198.790	1297 233 056	8198840	Synchronizer Cone (41 spl.)	1	(8)				●			
23		1297 333 117		Synchronizer Cone	1	With Retarder	ABC	●					
23		1297 333 118		Synchronizer Cone	1	With Retarder	D	●					
23		1297 333 118		Synchronizer Cone	1	With Retarder			●	●			
24	130.245	0750 116 002	7982088	Bearing D.90x160x30	1			●	●	●			
25		1296 301 067	7982221	Cover	1			●	●				
25	128.098	1315 301 220	8198822	Cover	1			●	●				
25		1296 301 067	7982221	Cover	1					●			
25	128.098	1315 301 220	8198822	Cover	1	(8)				●			
26		0750 111 341	93194330	Oil Seal 105x130x12	1			●	●	●			
27		1295 238 003		Output Flange	1	D.165-8 H.	ABC	●					
27		1295 338 061	8194837	Output Flange	1	D.180-4 H.	ABC	●					
27	197.051	1295 338 014	8123546	Output Flange	1	D.180-10 H.	ABC	●					
27		1295 338 059		Output Flange	1	D.180-10 H.	ABC	●					
27	197.074	1295 338 016	42492561	Output flange	1	D.204-4 H.	ABC	●					
27		1295 338 028		Output Flange	1	D.204-4 H.	ABC	●					
27		1297 338 041	93156094	Output Flange	1	D.180-4 H.	D	●					
27		1297 338 010	42492434	Output Flange	1	D.180-10 H.	D	●					
27		1297 338 041	93156094	Output Flange	1	D.180-4 H.			●	●			
27		1297 338 038		Output Flange	1	D.180-10 H.			●	●			
27		1297 338 010	42492434	Output Flange	1	D.180-10 H.			●	●			
27		1297 333 110	93156114	Output Flange	1	D.180-4 H. (8)				●			
28	188.077	1295 332 051	7982207	Stop Washer	1			●	●	●			
28		1295 332 064		Stop Washer	1	Only with 1295 238 003		●					
28		1312 332 028	8198837	Stop Washer	1	(8)				●			
29	141.068	1295 306 132	8121941	Bronze Slide	2			●	●	●			
30		1295 206 212	93159938	Fork	1			●					
30	198.362	1295 206 213	8194833	Fork	1			●					

## Notes

(8) New Reinforced Style. Use items marked (8) together

## Date

03 / 2006

## Table

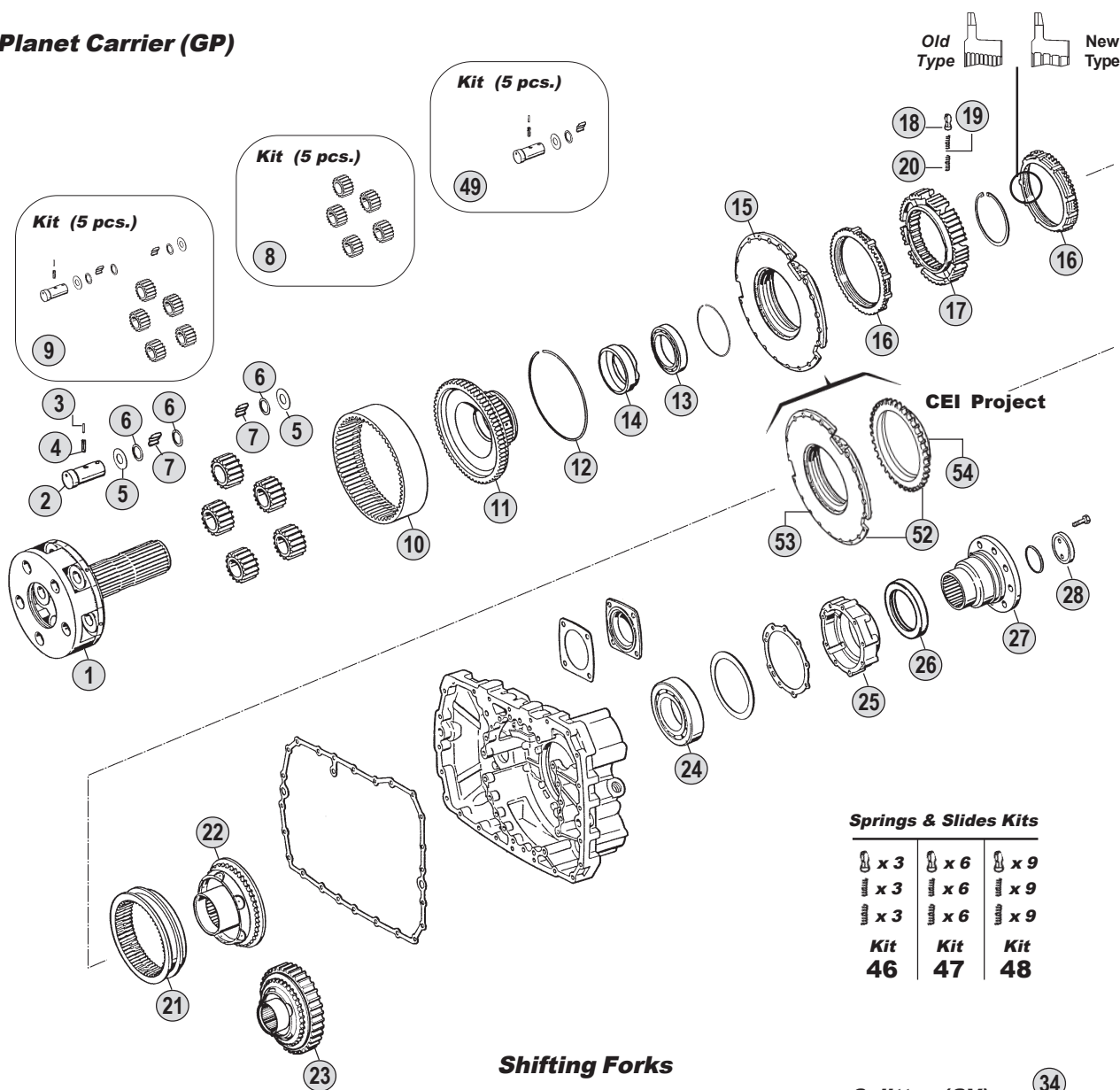
009 / B

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Suitable To : **ZF**

**16S130 - 16S160 - 16S190**

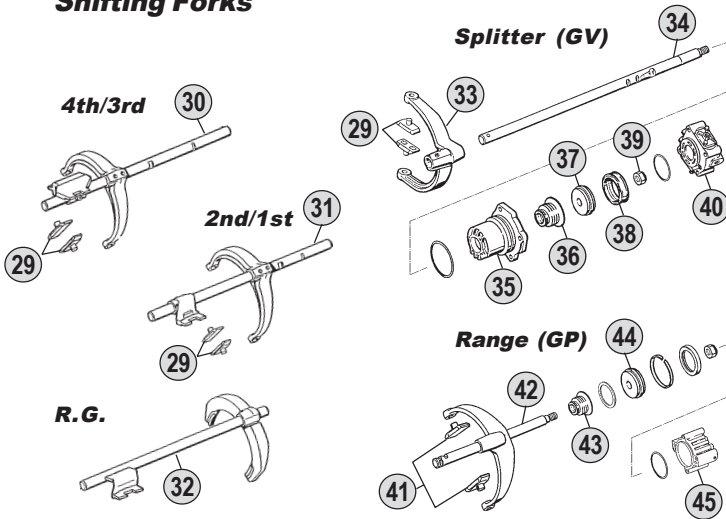
**Planet Carrier (GP)**



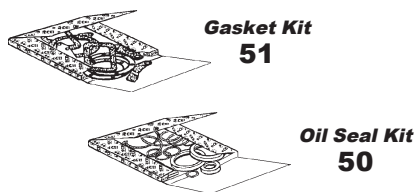
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

**Shifting Forks**



**Kits**



**Ratios**

<b>16S130</b>	A :10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E:17,06-1,00

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16S130 (1286)  
16S160 (1297)  
16S190 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	IVECO no.					16S130 (1286)	16S160 (1297)	16S190 (1297)	
30		1297 206 103	8198887	Fork	1			●	●		
30		1297 206 104	42531234	Fork	1			●	●		
30		1297 206 192		Fork	1				●		
31		1295 206 223		Fork	1			●			
31		1295 206 217		Fork	1			●			
31		1295 206 214	8194831	Fork	1			●			
31		1295 206 215	93159281	Fork	1			●			
31		1297 206 106	8195004	Fork	1				●	●	
31		1297 206 105	42531233	Fork	1				●	●	
31		1297 206 191		Fork	1					●	
32		1295 206 250		Fork	1			●			
32		1295 206 249		Fork	1			●			
32	198.360	1295 206 255	93159282	Fork	1			●			
32		1295 206 254	93155714	Fork	1			●			
32		1297 206 174	93156041	Fork	1				●	●	
32		1297 206 175	42531235	Fork	1				●	●	
32		1297 206 181		Fork	1					●	
33		1313 312 002	93156532	Fork	1			●	●	●	
34	149.172	1295 312 018	7982204	Selector rod	1			●			
34		1297 312 008		Selector Rod	1				●	●	
35	132.046	1296 312 042	8123433	Cylinder	1			●	●	●	
36	139.331	0750 112 034	8190753	Cap Collar D.25x38x14,2	1			●	●	●	
37	189.421	1296 312 053	8193708	Piston	1			●	●	●	
38		0750 112 089	8194836	Ring 53x63x16,2	1			●	●	●	
39		0737 006 095	93190550	Nut	1			●	●	●	
40		0750 132 032		Cylinder	1			●	●	●	
40		0750 132 033	8121938	Cylinder	1			●	●	●	
40	280.350	1295 212 008		Cylinder	1			●	●		
40		1295 212 009	42492464	Cylinder	1				●		
41	141.085	1296 334 004	7982228	Bronze Slide	2			●	●	●	
42	149.171	1312 234 002	93190033	Fork Lever	1			●	●	●	
43	139.331	0750 112 034	8190753	Cap Collar D.25x38x14,2	1			●	●	●	
44	189.422	1296 334 039	42492447	Piston	1			●	●	●	
44		1297 334 056	8198841	Piston	1	(8)				●	
45	132.047	1295 334 075	7982230	Cylinder	1			●	●	●	
45		1297 334 055	8198844	Cylinder	1	(8)				●	
46	198.339	1268 298 938		Spring Slide Set	1			●	●	●	
47	198.564	CEI 198564		Spring Slide Set	1			●	●	●	
48	198.842	1295 298 933		Spring Slide Set	1			●	●	●	
49	198.447	CEI 198447		Gear Set	1		ABC	●			
50	198.428	1295 298 960	8124710	Oil Seal Ring Kit	1			●	●	●	
51	198.427	1295 298 915	8124709	Gasket Kit	1			●	●	●	
52	198.856	CEI 198856		Synchronizer cone kit	1	Can repl. fig. 15		●	●	●	
53	135.128	CEI 135128		Saddle Plate	1	Use with fig.54		●	●	●	
54	109.174	1296 333 050	42535041	Synchronizer Cone	1	use with fig. 53		●	●	●	

## Notes

(8) New Reinforced Style. Use items marked (8) together

## Date

03 / 2006

## Table

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suitable to :

**Z.F.****EcoSplit I****From 16S112/1 to 16S190/1****Application**

	16S112/1 (1296)	16S130/1 (1295)	16S160/1 (1297)	16S190/1 (1297)
<b>MERCEDES</b>				
<b>MAN</b>				
<b>IVECO</b>				
<b>RVI</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**Ratios**

	R.10,14-0,72 <b>A</b>	R.11,46-0,85 <b>B</b>	R.13,68-1,00 <b>C</b>	R.14,29-0,82 <b>D</b>	R.17,06-1,00 <b>E</b>
<b>16S112/1</b>					
<b>16S130/1</b>					
<b>16S160/1</b>					
<b>16S190/1</b>					

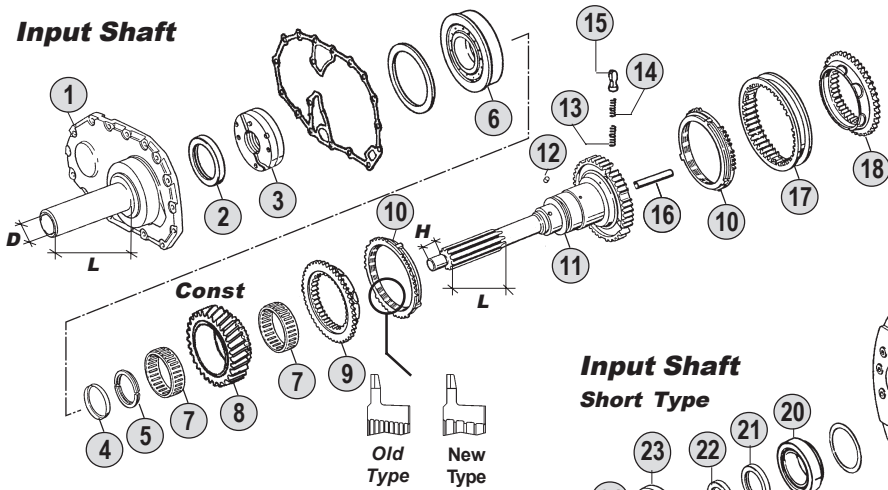
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**ECO I**  
From 16S160/1  
To 16S190/1

Suitable To : **ZF**

**16S160/1 - 16S190/1**

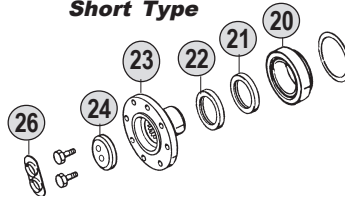
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 70</b>	<b>Kit 71</b>	<b>Kit 72</b>

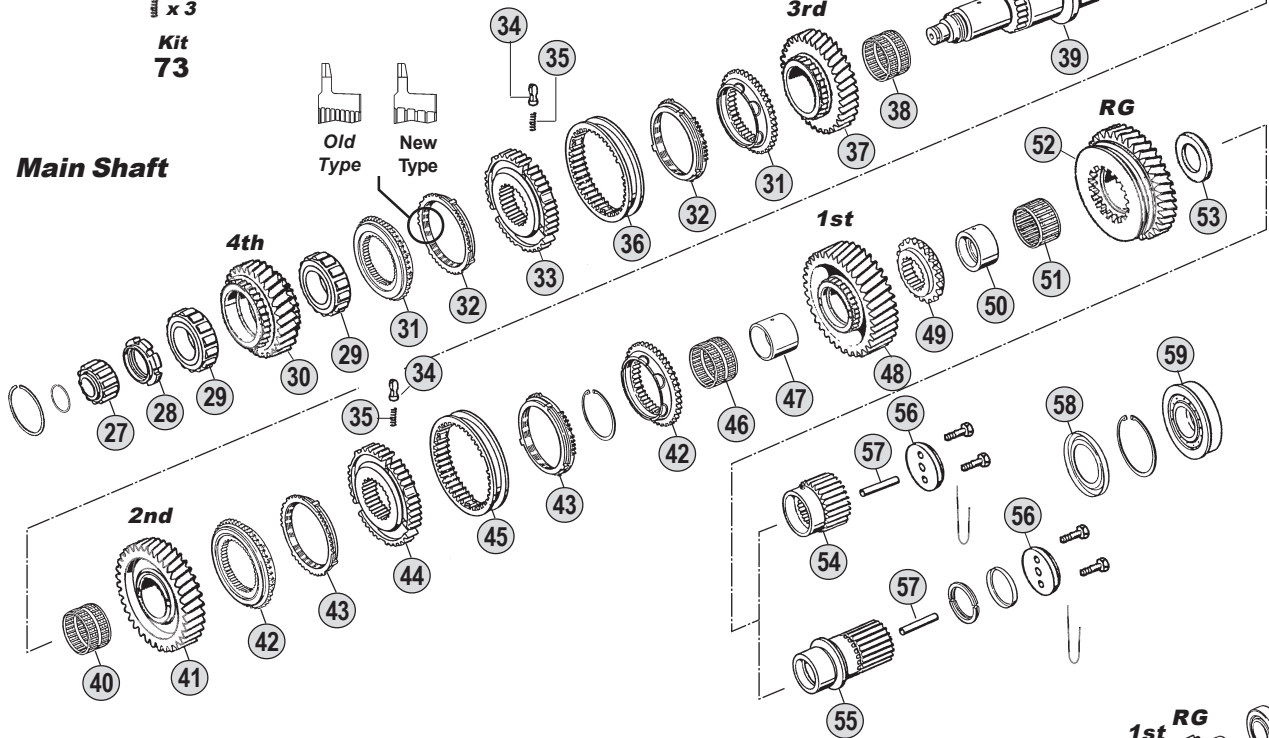
**Input Shaft Short Type**



**Springs & Slides Kits**

x 3
x 3
<b>Kit 73</b>

**Main Shaft**

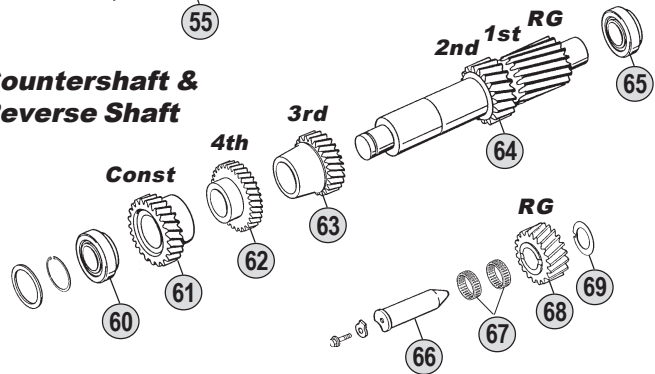


**Kits**



66

**Countershaft & Reverse Shaft**



**Ratios**

<b>16S160/1 A:--</b>	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00
<b>16S190/1 A:--</b>	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	IVECO no.					16S160/1 (1297)	16S190/1 (1297)				
1		1297 302 025		Front Cover	1	L=205 -H=68		●					
1		1297 302 043	8190711	Front Cover	1	L=170 -H=62,61		●					
2		0750 111 002	9981327	Oil Seal 48x75x8	1			●					
2		0734 310 386	42533218	Oil Seal 55x75x8	1			●					
3	<b>280.348</b>	1295 202 041	8190359	Oil Pump	1			●	●				
4	169.754	0730 061 816	9931723	Securing Ring	1			●	●				
4	169.755	0730 062 579	8121935	Securing Ring	1	S.4,20 mm		●	●				
5		0730 103 244	42480821	Split Ring T.4,30 mm	1	S.4,30 mm (3)		●	●				
5		0730 103 935	42492467	Split Ring T.3,80 mm	1	S.3,80 mm (3)		●	●				
5		0730 105 156	8121934	Split Ring T.4,00 mm	1	S.4,00 mm (4)		●	●				
5		0730 105 154	8121932	Split Ring T.3,80 mm	1	S.3,80 mm (4)		●	●				
6	130.305	0750 118 131	1905088	Bearing D.80x150x27,50	1			●	●				
7	137.153	0735 320 896	8123819	Needle Cage D.88x96x29	2			●	●				
8	<b>145.466</b>	1297 302 177	93157252	Constant Gear 30 T	1		B	●	●				
8	<b>145.406</b>	1297 302 176	8190712	Constant Gear 28 T	1		C	●	●				
8	<b>145.405</b>	1297 302 250	42536778	Constant Gear 29 T	1		D	●	●				
8	<b>145.407</b>	1297 302 241	8198793	Constant Gear 26 T	1		E	●	●				
9	<b>109.072</b>	1295 304 278	7982177	Synchronizer Cone	1			●	●				
10	<b>119.084</b>	1295 304 004	7982165	Synchronizer Ring	2	Old Type		●	●				
10	<b>119.175</b>	1304 304 686	42536530	Synchronizer Ring	2	New Type		●	●				
11	102.236	1297 202 009	8190709	Input shaft	1			●	●				
12		0635 470 012	9931670	Pin	1			●	●				
13	<b>156.037</b>	0732 040 385	8832940	Outer Spring De.6x34	3			●	●				
14	<b>156.036</b>	0732 040 386	9931785	Inner Spring De.3x34	3			●	●				
15	<b>160.116</b>	1240 304 278	2960200	Pressure piece	3			●	●				
16	188.208	0730 062 323	93190980	Oil Tube	1			●	●				
17	<b>154.097</b>	1295 304 002	7982164	Sliding Sleeve	1			●	●				
18	<b>109.072</b>	1295 304 278	7982177	Synchronizer Cone	1			●	●				
19	102.237	1297 202 044	8123821	Input Shaft	1			●	●				
20		0750 117 651	1905420	Bearing 50x90x24,7	1			●	●				
21		0634 310 648	7984238	Oil Seal 70x90x10	1			●	●				
22		0734 300 140	42493153	Oil Seal 70x90x10	1			●	●				
23	155.135	1286 304 026	7982145	Drive Flange	1	D.150-8H.		●	●				
24	188.078	1269 302 065	9985488	Stop Washer	1			●	●				
26		1269 302 164	73140828	Stop Washer	1			●	●				
27	137.113	0750 118 038	7982073	Roller Cage D.35x68x27,50	1			●	●				
28	187.412	0737 502 092	7982081	Grooved Nut M60x1,5	1			●	●				
29	137.157	0750 118 220	93157137	Roller Cage D.63x97,5x37,50	2			●	●				
30	<b>146.384</b>	1297 304 267	42492495	Gear 4th Speed 28 T	1		B	●	●				
30	<b>146.318</b>	1297 304 260	8190720	Gear 4th Speed 30 T	1		C	●	●				
30	<b>146.315</b>	1297 304 318	93157144	Gear 4th Speed 26 T	1		D	●	●				
30	<b>146.294</b>	1297 304 413	8198814	Gear 4th Speed 29 T	1		E	●	●				
31	<b>109.114</b>	1297 304 369	8198810	Synchronizer Cone	2			●	●				
32	<b>119.119</b>	1297 304 402	93159684	Synchronizer Ring	2	Old Type		●	●				
32	<b>119.167</b>	1297 304 484	42532487	Synchronizer Ring	2	New Type		●	●				

## Notes

- (3) To be coupled together with Fig. 4 - 0730 061 816  
 (4) To be coupled together with Fig. 4 - 0730 062 579

## Date

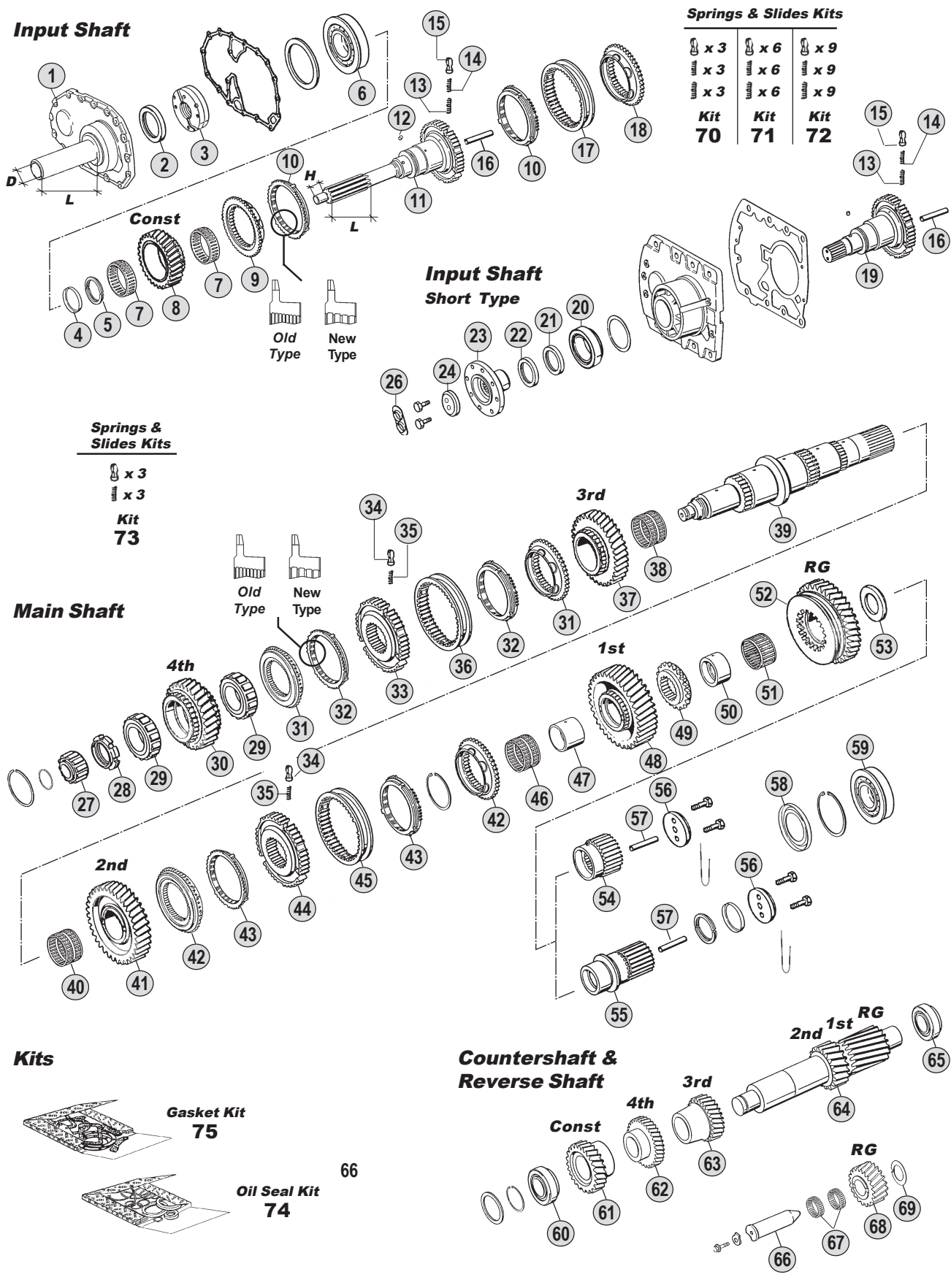
03 / 2006

## Table

010 / A

Suitable To : **ZF**

**16S160/1 - 16S190/1**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 70</b>	<b>Kit 71</b>	<b>Kit 72</b>

**Springs & Slides Kits**

x 3
x 3
<b>Kit 73</b>

**Main Shaft**

**Kits**



**Countershaft & Reverse Shaft**

**Ratios**

<b>16S160/1 A</b> :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00
<b>16S190/1 A</b> :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06 - 1,00



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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					IVECO no.	16S160/1 (1297)	16S190/1 (1297)			
33	157.140	1297 304 446	93156033	Synchronizer Hub	1		●	●				
34	160.189	1297 304 436	93156036	Pressure Piece	3		●	●				
35	156.140	0732 040 409	2967403	Spring D.6,50x23,50	3		●	●				
36	154.135	1310 304 202	42534465	Sliding Sleeve	1		●	●				
37	145.470	1297 304 266	42492494	Gear 3rd Speed 32 T	1		BD	●	●			
37	145.450	1297 304 261	8190719	Gear 3rd Speed 34 T	1		C	●	●			
37	145.377	1297 304 414	8198809	Gear 3rd Speed 34 T	1		E	●	●			
38	137.112	0735 320 451	7982067	Needle Cage D.82x90x60	1			●	●			
39	103.132	1297 304 181	7982265	Main Shaft	1		BC	●	●			
39	103.098	1297 304 193	8198801	Main Shaft	1		DE	●	●			
40	137.109	0735 320 452	7982068	Needle Cage D.82x90x55	1			●	●			
41	145.500	1297 304 269	42492493	Gear 2nd Speed 37 T	1		BD	●	●			
41	145.375	1297 304 442	93156030	Gear 2nd Speed 38 T	1		CE	●	●			
42	109.113	1297 304 371	8198805	Synchronizer Cone	2			●	●			
43	119.122	1297 304 401	93160314	Synchronizer Ring	2	Old Type		●	●			
43	119.166	1297 304 485	42534634	Synchronizer Ring	2	New Type		●	●			
44	157.139	1297 304 445	93156032	Synchronizer Hub	1			●	●			
45	154.136	1297 304 450	93156034	Sliding Sleeve	1			●	●			
46	137.110	0735 320 487	42492253	Needle Cage D.82x90x68	1			●	●			
47	117.246	1297 304 035	7982259	Bush	1			●	●			
48	145.507	1297 304 270	42492497	Gear 1st Speed 44 T	1		BD	●	●			
48	145.376	1297 304 441	93156031	Gear 1st Speed 47 T	1		CE	●	●			
49	109.178	1297 304 154	7982263	Engaging Ring	1			●	●			
50	117.318	1297 304 034	42492291	Bush	1		BC	●	●			
51	137.111	0735 320 486	7982069	Needle Cage D.78x86x44	1			●	●			
52	147.109	1297 304 149	42492496	Reverse Gear 39 T	1		BD	●	●			
52	147.140	1297 304 148	42492294	Reverse Gear 38 T	1		CE	●	●			
53	169.757	1297 304 381	93155824	Thrust Washer	1		BC	●	●			
54	157.177	1297 304 187	7982266	Sun Gear 27 T	1		BC	●	●			
55	157.198	1297 304 439	8198815	Sun Gear 24 T	1		DE	●	●			
56	188.076	1272 304 021	42480849	Stop Washer	1			●	●			
57		0730 061 842	2980534	Oil Tube	1			●	●			
58		1297 301 004	7982244	Oil Collector	1			●	●			
59		0750 118 006	7982095	Bearing D.65x140x33	1		BC	●	●			
59		0750 118 180	1905030	Bearing D.80x140x33	1		DE	●	●			
60	130.242	0750 117 010	42492259	Bearing D.50,80x100x35	1			●	●			
61	146.383	1297 303 074	93158425	Constant Gear 31 T	1		B	●	●			
61	146.322	1297 303 066	8190715	Constant Gear 34 T	1		C	●	●			
61	146.319	1297 303 098	93157141	Constant Gear 32 T	1		D	●	●			
61	146.321	1297 303 086	8198799	Constant Gear 35 T	1		E	●	●			
62	146.382	1297 303 072	93158425	Gear 4th Speed 34 T	1		B	●	●			
62	146.381	1297 303 065	8190716	Gear 4th Speed 31 T	1		C	●	●			
62	146.415	1297 303 097	42531627	Gear 4th Speed 35 T	1		D	●	●			
62	146.416	1297 303 123	8198800	Gear 4th Speed 32 T	1		E	●	●			
63	146.357	1297 303 073	7982250	Gear 3rd Speed 28 T	1		BD	●	●			

## Notes

- (3) To be coupled together with Fig. 4 - 0730 061 816  
 (4) To be coupled together with Fig. 4 - 0730 062 579

## Date

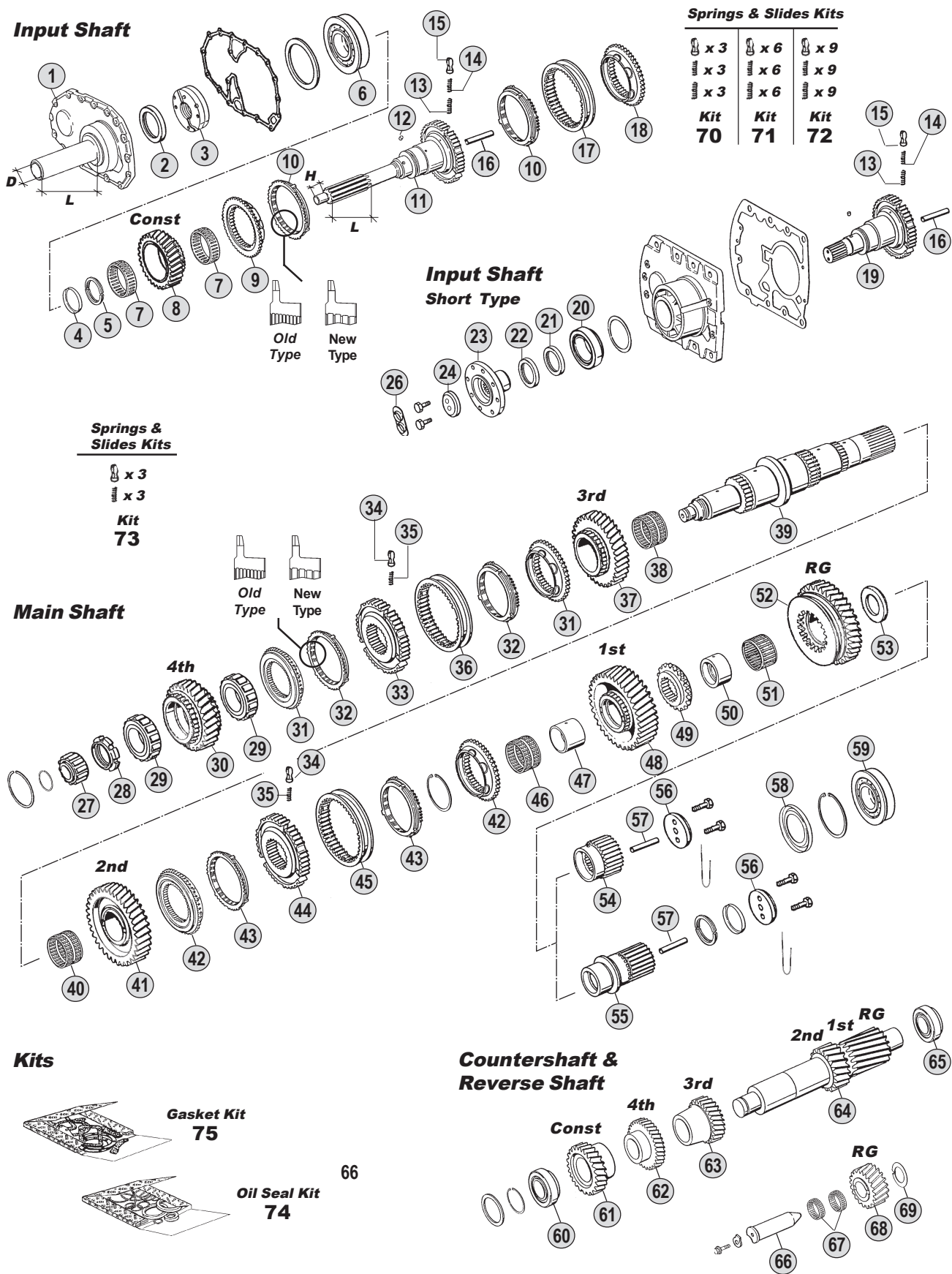
03 / 2006

## Table

010 / A

Suitable To : **ZF**

**16S160/1 - 16S190/1**



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**Ratios**

<b>16S160/1 A</b> :--	<b>B</b> : 11,46 - 0,85	<b>C</b> : 13,68 - 1,00	<b>D</b> : 14,29 - 0,82	<b>E</b> : 17,06 - 1,00
<b>16S190/1 A</b> :--	<b>B</b> : 11,46 - 0,85	<b>C</b> : 13,68 - 1,00	<b>D</b> : 14,29 - 0,82	<b>E</b> : 17,06 - 1,00

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	16S160/1 (1297)				16S190/1 (1297)							
		ZF no.	IVECO no.																
63	146.421	1297 303 067	8190714	Gear 3rd Speed 25 T	1		C	●	●										
63	146.422	1297 303 132	8198798	Gear 3rd Speed 26 T	1		E	●	●										
64	105.092	1297 303 075	7982253	Countershaft 19-23 T	1		BD	●	●										
64	105.093	1297 303 140	8198794	Countershaft 17-20 T	1		CE	●	●										
65	130.308	0750 117 009	7982090	Bearing D.49,2x103,1x43,6	1			●	●										
66	107.108	1295 305 056	8121930	Reverse Gear Pin	1			●	●										
67	137.007	0750 115 011	7982086	Needle Cage D.45x53x21	2			●	●										
68	147.133	1295 305 051	42492574	Reverse Gear 21 T	1		BD	●	●										
68	147.094	1295 305 052	42492275	Reverse Gear 24 T	1		CE	●	●										
69	169.234	0730 150 064	1274314	Thrust Washer	1			●	●										
70	198.339	1268 298 938		Spring Slide Set	1			●	●										
71	198.564	CEI 198564		Spring Slide Set	1			●	●										
72	198.842	1295 298 933		Spring Slide Set	1			●	●										
73	198.843	CEI 198843		Spring Slide Set	1			●	●										
74	198.428	1295 298 960	8124710	Oil Seal Ring Kit	1			●	●										
75	198.427	1295 298 915	8124709	Gasket Kit	1			●	●										

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**ECO I**

From 16S160/1  
To 16S190/1

**Notes**

- (3) To be coupled together with Fig. 4 - 0730 061 816  
(4) To be coupled together with Fig. 4 - 0730 062 579

**Date**

03 / 2006

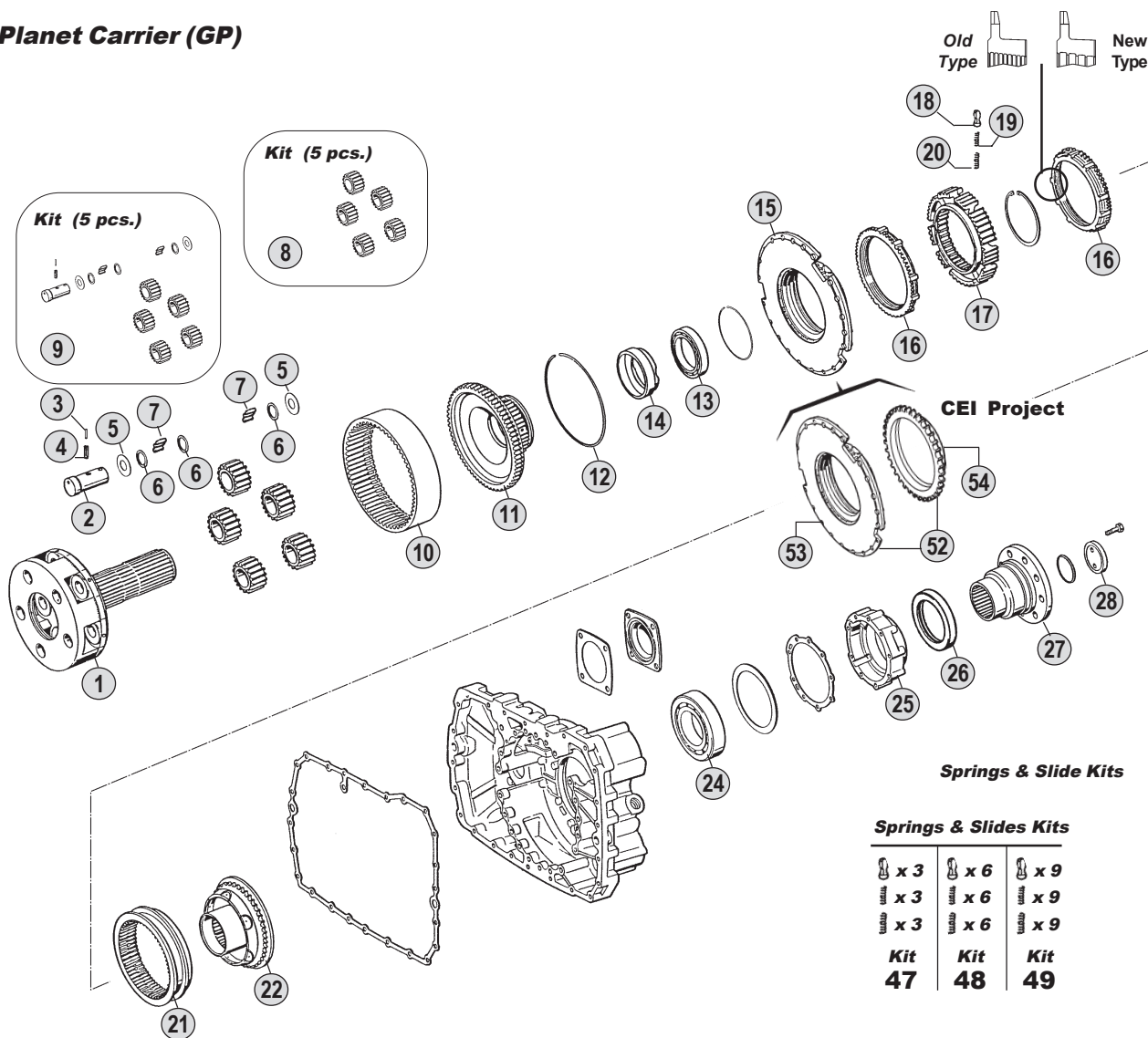
**Table**

**010 / A**

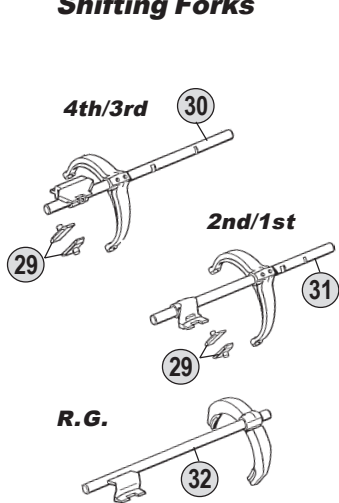
Suitable To : **ZF**

**16S160/1 - 16S190/1**

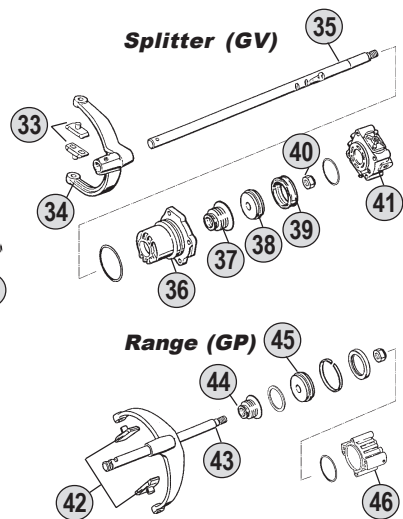
**Planet Carrier (GP)**



**Shifting Forks**



**Splitter (GV)**



**Kits**



**Ratios**

<b>16S160/1 A</b> :--	<b>B</b> : 11,46 - 0,85	<b>C</b> : 13,68 - 1,00	<b>D</b> : 14,29 - 0,82	<b>E</b> : 17,06 - 1,00
<b>16S190/1 A</b> :--	<b>B</b> : 11,46 - 0,85	<b>C</b> : 13,68 - 1,00	<b>D</b> : 14,29 - 0,82	<b>E</b> : 17,06 - 1,00

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					IVECO no.	16S160/1 (1297)	16S190/1 (1297)					
1	190.396	1297 232 039	8194344	Planetary Carrier	1		BC	●	●					
1	190.395	1297 232 045	93157145	Planetary Carrier	1		DE	●	●					
1		1316 232 005	42536093	Planetary Carrier	1	(5)	E		●					
2	107.163	1297 332 109	8190756	Planet Shaft	5			●	●					
2	107.165	1312 332 026	8198829	Planet Shaft	5	(5)			●					
3	160.191	0631 329 017	9920765	Lock Pin D.3x24	5			●	●					
3	160.195	0631 329 167	93191213	Lock Pin D.3x26	5	(5)			●					
4	160.192	0631 329 050	8195251	Lock Pin D.5x24	5			●	●					
4	160.194	0631 329 051	93191212	Lock Pin D.5x26	5	(5)			●					
5	169.753	0501 306 212	7981912	Thrust Washer D.29x64x1,5	10			●	●					
5	169.759	0501 308 981	93156113	Thrust Washer	10	(5)			●					
6	169.410	0730 103 846	42484076	Spacer Ring D.29x39x1,00	15			●	●					
6	169.744	0730 107 168	8198826	Spacer Ring	15	(5)			●					
7	171.045	0750 119 109	93157146	Roller Set D.10x16,80 (120 pcs)	120			●	●					
7	171.062	0750 119 116	93191132	Roller D.10x16,8	140	(5)			●					
8	198.803	1297 232 023	7982241	Planetary Gear Set (5 pcs)	1		BC	●	●					
8	198.810	1297 232 024	93156046	Planetary Gear Set (5 pcs)	1		DE	●	●					
8	198.801	1312 232 014	8198825	Planetary Gear Set (5 pcs)	1	(5)	E		●					
9	198.704	1297 298 912		Planetary Gear Set	1		BC	●	●					
9		1297 298 919		Planetary Gear Set	1		DE	●	●					
10	123.217	1297 332 080	8121936	Crown Gear 83 T	1		BC	●	●					
10	123.208	1295 332 086	8198832	Crown Gear 86 T	1		DE	●	●					
11	150.138	1297 332 017	7982273	Flange Gear 83 T	1		BC	●	●					
11	150.137	1297 332 035	93156047	Flange Gear 86 T	1		DE	●	●					
11	150.134	1297 332 120	8198830	Flange Gear 86 T	1	(5)	E		●					
12	111.129	0730 505 055	42492409	Locking Wire	1		BC	●	●					
12	111.198	0730 505 056	8198833	Locking Wire	1		DE	●	●					
13	130.310	0750 116 165	42492449	Bearing D.80x110x16	1			●	●					
13	130.311	0635 338 035	8195468	Bearing D.100x125x13	1	(5)			●					
14		1297 332 002	42492428	Ring	1			●	●					
15	198.358	1296 233 006	7982213	Synchronizer Cone	1			●	●					
16	119.085	1296 333 022	7982226	Synchronizer Ring	2	Old Type		●	●					
16	119.172	1296 333 045	42532826	Synchronizer Ring	2	New Type		●	●					
17	157.113	1296 333 002	7982225	Synchronizer Hub	1			●	●					
17	157.183	1297 333 115	8198839	Synchronizer Hub	1	(5)			●					
18	160.116	1240 304 278	2960200	Pressure Piece	9			●	●					
19	156.036	0732 040 386	9931785	Inner Spring De.3x34	9			●	●					
20	156.037	0732 040 385	8832940	Outer Spring De.6x34	9			●	●					
21	154.098	1296 333 023	7982227	Sliding Sleeve	1			●	●					
22	198.374	1313 233 001	93156049	Synchronizer Cone (38 Spl.)	1			●	●					
22	198.790	1297 233 056	8198840	Synchronizer Cone (41 spl.)	1	(5)			●					
24	130.245	0750 116 002	7982088	Bearing D.90x160x30	1			●	●					
25		1296 301 067	7982221	Cover	1			●						
25	128.098	1315 301 220	8198822	Cover	1			●						
25		1296 301 067	7982221	Cover	1			●						

## Notes

(5) New Reinforced Style. Use items marked (5) together

## Date

03 / 2006

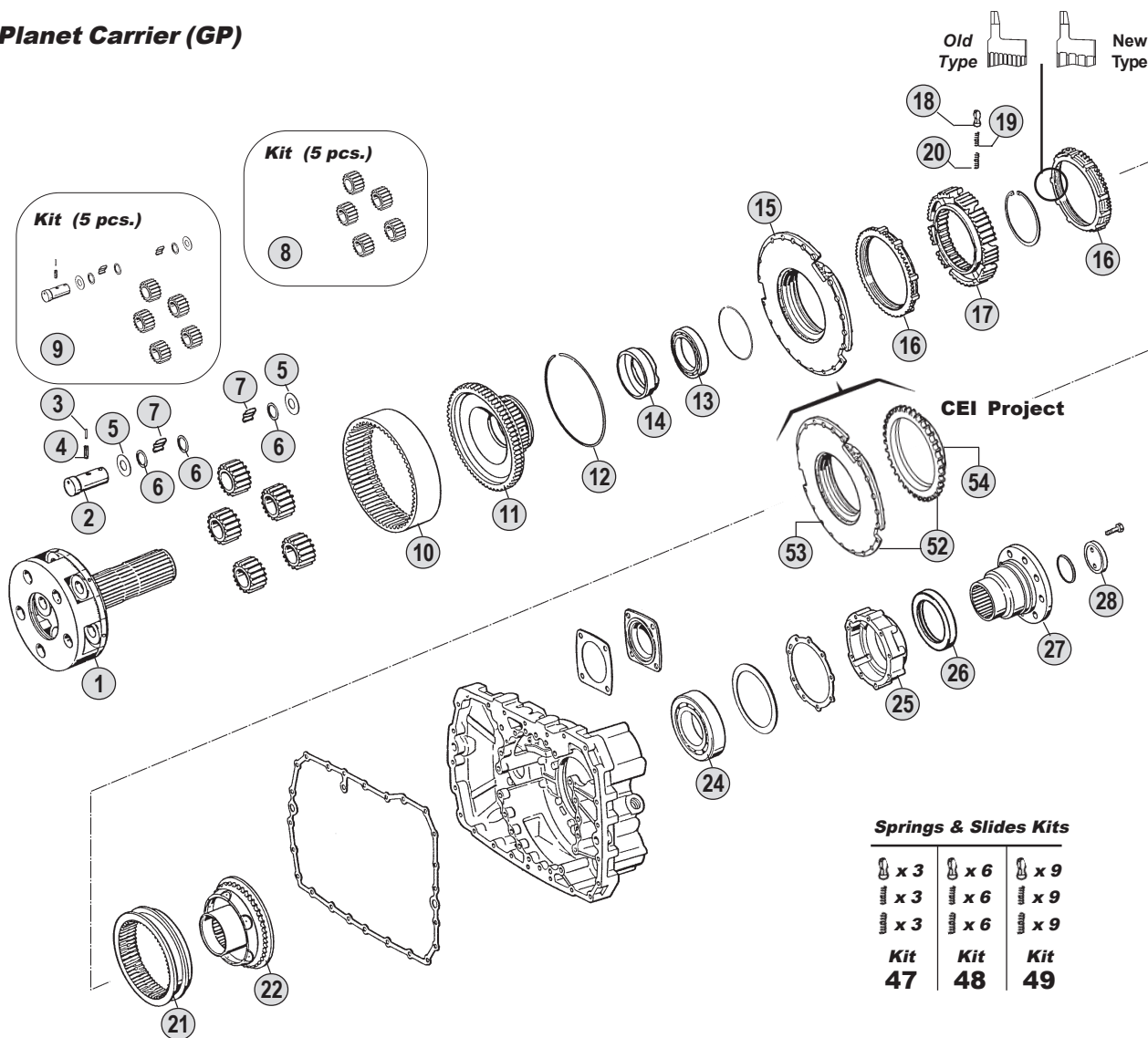
## Table

010 / B

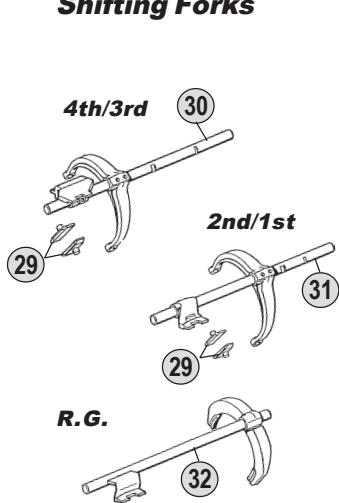
Suitable To : **ZF**

**16S160/1 - 16S190/1**

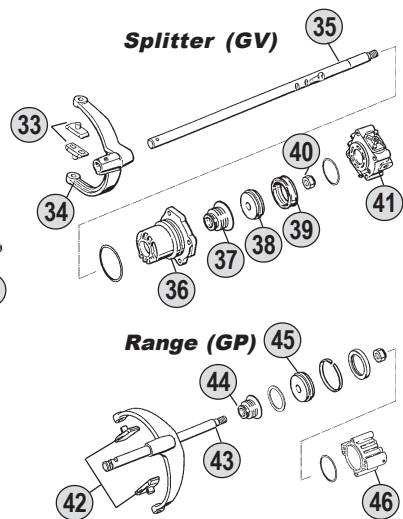
**Planet Carrier (GP)**



**Shifting Forks**



**Splitter (GV)**



**Kits**



**Ratios**

<b>16S160/1 A</b> :--	<b>B</b> : 11,46 - 0,85	<b>C</b> : 13,68 - 1,00	<b>D</b> : 14,29 - 0,82	<b>E</b> : 17,06 - 1,00
<b>16S190/1 A</b> :--	<b>B</b> : 11,46 - 0,85	<b>C</b> : 13,68 - 1,00	<b>D</b> : 14,29 - 0,82	<b>E</b> : 17,06 - 1,00

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					IVECO no.	16S160/1 (1297)	16S190/1 (1297)			
25	128.098	1315 301 220	8198822	Cover	1	(5)	●					
26		0750 111 341	93194330	Oil Seal 105x130x12	1		●	●				
27		1297 338 041	93156094	Output Flange	1	D.180-4H.	●	●				
27		1297 333 110	93156114	Output Flange	1	D.180-4H. (5)	●					
28	188.077	1295 332 051	7982207	Stop Washer	1		●	●				
28		1312 332 028	8198837	Stop Washer	1	(5)	●					
29	141.163	1297 306 120	8198817	Slide	2		●	●				
30		1297 206 103	8198887	Fork	1		●	●				
31		1297 206 106	8195004	Fork	1		●	●				
32		1297 206 174	93156041	Fork	1		●	●				
33	141.068	1295 306 132	8121941	Bronze Slide	2		●	●				
34		1313 312 002	93156532	Fork	1		●	●				
35		1297 312 008		Selector Rod	1		●	●				
36	132.046	1296 312 042	8123433	Cylinder	1		●	●				
37	139.331	0750 112 034	8190753	Cap Collar D.25x38x14,2	1		●	●				
38	189.421	1296 312 053	8193708	Piston	1		●	●				
39		0750 112 089	8194836	Ring 53x63x16,2	1		●	●				
40		0737 006 095	93190550	Nut	1		●	●				
41		0750 132 032		Cylinder	1		●	●				
41		0750 132 033	8121938	Cylinder	1		●	●				
42	141.085	1296 334 004	7982228	Bronze Slide	2		●	●				
43	149.171	1312 234 002	93190033	Fork Lever	1		●	●				
44	139.331	0750 112 034	8190753	Cap Collar D.25x38x14,2	1		●	●				
45	189.422	1296 334 039	42492447	Piston	1		●	●				
45		1297 334 056	8198841	Piston	1	(5)	●					
46	132.047	1295 334 075	7982230	Cylinder	1		●	●				
46		1297 334 055	8198844	Cylinder	1	(5)	●					
47	198.339	1268 298 938		Spring Slide Set	1		●	●				
48	198.564	CEI 198564		Spring Slide Set	1		●	●				
49	198.842	1295 298 933		Spring Slide Set	1		●	●				
50	198.428	1295 298 960	8124710	Oil Seal Ring Kit	1		●	●				
51	198.427	1295 298 915	8124709	Gasket Kit	1		●	●				
52	198.856	CEI 198856		Synchronizer cone kit	1	Can repl. fig. 15	●	●				
53	135.128	CEI 135128		Saddle Plate	1	Use with fig. 54	●	●				
54	109.174	1296 333 050	42535041	Synchronizer Cone	1	Use with fig. 53	●	●				

ECO I

From 16S160/1  
To 16S190/1

## Notes

(5) New Reinforced Style. Use items marked (5) together

## Date

03 / 2006

## Table

010 / B





suitable to :

**Z.F.****EcoSplit II****From 16S150 to 16S220****Application**

	16S150 (1313)	16S220 (1312)		
<b>MERCEDES</b>				
<b>MAN</b>				
<b>IVECO</b>				
<b>RVI</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**Ratios**

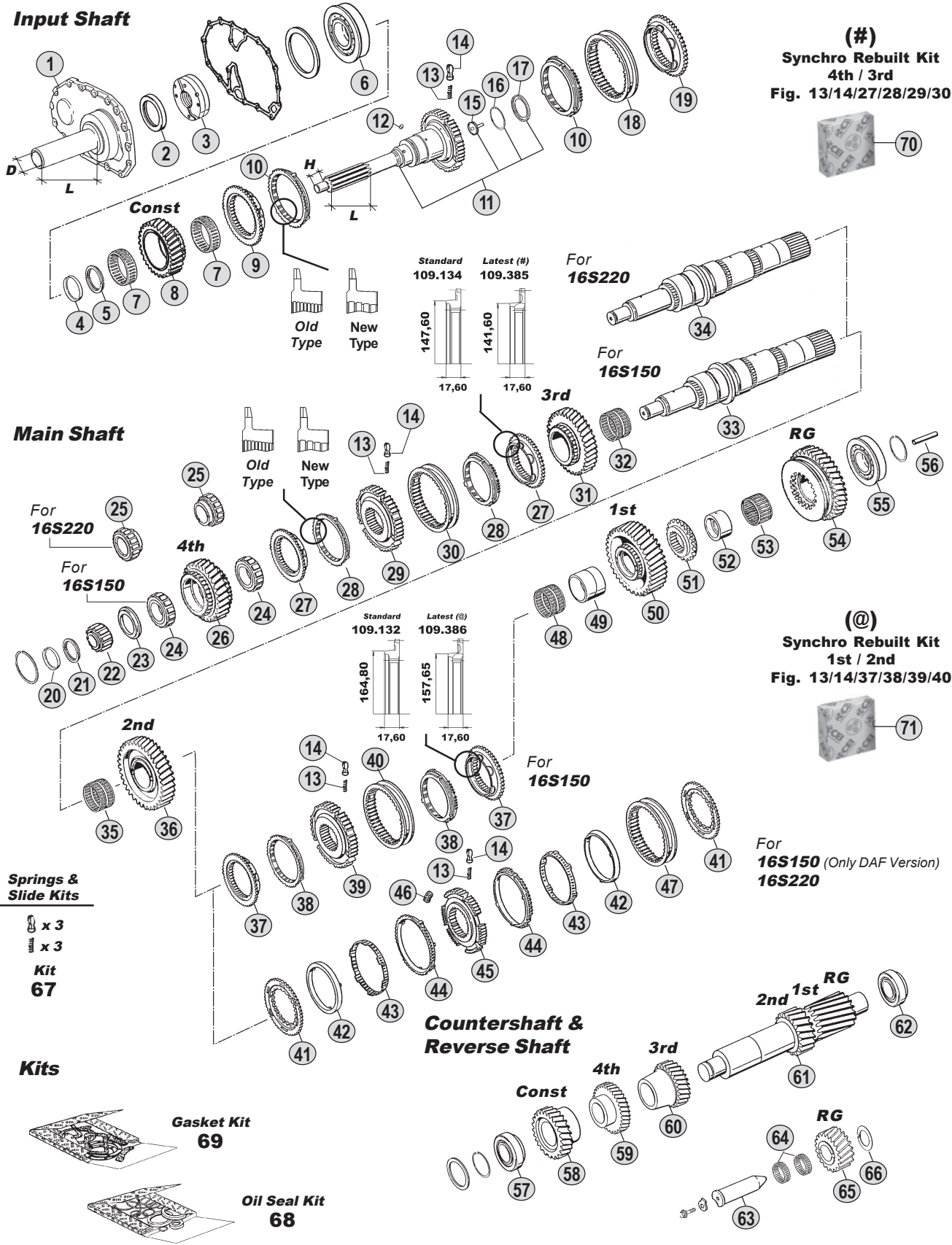
	R.10,14-0,72 <b>A</b>	R.13,80-0,84 <b>B</b>	R.16,47-1,00 <b>C</b>		
<b>16S150</b>					
<b>16S220</b>					

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**ECO II**From 16S150  
To 16S220

Suitable To : **ZF**

**16S150 - 16S220**



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**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	IVECO no.					16S150 (1313)	16S220 (1312)					
1		1312 302 047	93156405	Front Cover	1	L=170 - D=60	●	●						
1		1312 302 054		Front Cover	1	L=190 - D=62	●							
1		1312 302 044	93163888	Front Cover	1	L=190 - D=62,611	●	●						
2		0734 310 386	42533218	Oil Seal 55x75x8	1		●	●						
3	<b>280.348</b>	1295 202 041	8190359	Oil Pump	1		●	●						
4	169.754	0730 061 816	9931723	Securing Ring	1		●	●						
5		0730 106 168	8196975	Split Ring	1	S.4,30 mm	●	●						
5		0730 106 158	8196965	Split Ring	1	S.3,80 mm	●	●						
6	<b>130.306</b>	0750 117 431	1905101	Bearing D.75x150x30,50	1		●	●						
7	137.148	0750 115 310	1905327	Needle Cage D.93x101x25	1		●							
7	<b>137.134</b>	0735 321 438	1905493	Needle Cage D.93x101x32,50	1			●						
8	<b>145.557</b>	1313 302 036		Constant Gear 34 T	1			●						
8	145.525	1313 302 035	93163889	Constant Gear 30 T	1			●						
8		1312 302 077		Constant Gear 28 T	1				●					
8	<b>145.491</b>	1312 302 073		Constant Gear 34 T	1				●					
8	145.490	1312 302 074	93160317	Constant Gear 30 T	1				●					
9	<b>109.134</b>	1312 304 027	93156419	Synchronizer Cone	1			●	●					
10	<b>119.119</b>	1297 304 402	93159684	Synchronizer Ring	2	Old Type		●	●					
10	<b>119.167</b>	1297 304 484	42532487	Synchronizer Ring	2	New Type		●	●					
11	102.242	1313 202 014	93163885	Input Shaft	1			●						
11	102.238	1312 202 038	93190680	Input Shaft	1				●					
12		0635 470 012	9931670	Pin	1			●	●					
13	<b>156.140</b>	0732 040 409	2967403	Spring D.6,50x23,50	3			●	●					
14	<b>160.189</b>	1297 304 436	93156036	Pressure Piece	3			●	●					
15		1312 302 095	42531659	Tube	1			●	●					
16		0630 502 027	9912558	Ring	1			●	●					
17		0501 320 435	93192003	Diaphragm	1			●	●					
18	<b>154.135</b>	1310 304 202	42534465	Sliding Sleeve	1			●	●					
19	<b>109.133</b>	1312 304 056	93156418	Synchronizer Cone	1			●	●					
20		0730 062 781	93156515	Ring	1			●	●					
21		0730 107 023	93156502	Split Ring	1	S.5,00 mm		●	●					
21		0730 107 019	93156506	Split Ring	1	S.4,60 mm		●	●					
22	<b>137.150</b>	0750 117 232	93156500	Roller Cage D.42x40,30	1			●	●					
23		1315 304 051	93191192	Ring	1	S.8,30 mm		●	●					
24	<b>137.156</b>	0750 118 198	1905334	Roller Cage D.67x101x32	1			●						
25		0750 118 258	1905369	Roller Cage D.67x101x38	1				●					
26	<b>146.476</b>	1313 304 005		Gear 4th Speed 30 T	1			●						
26	146.442	1296 304 131	93163903	Gear 4th Speed 34 T	1			●						
26		1312 304 029		Gear 4th Speed 30T	1	(1)			●					
26	<b>146.425</b>	1312 304 032		Gear 4th Speed 30 T	1			●						
26	146.317	1312 304 031	93156492	Gear 4th Speed 34 T	1				●					
27	<b>109.134</b>	1312 304 027	93156419	Synchronizer Cone	2			●	●					
27	<b>109.385</b>	1316 304 159		Synchronizer Cone	2			●	●					
28	<b>119.119</b>	1297 304 402	93159684	Synchronizer Ring	2	Old Type		●	●					
28	<b>119.167</b>	1297 304 484	42532487	Synchronizer Ring	2	New Type		●	●					

## Notes

(1) 16S220 Special Version - Ratio 10,14-0,72. For this version to use :  
4th Speed - Synchro Cone 1312 304 027 / 3rd Speed Synchro - Cone 1312 304 080

## Date

03 / 2006

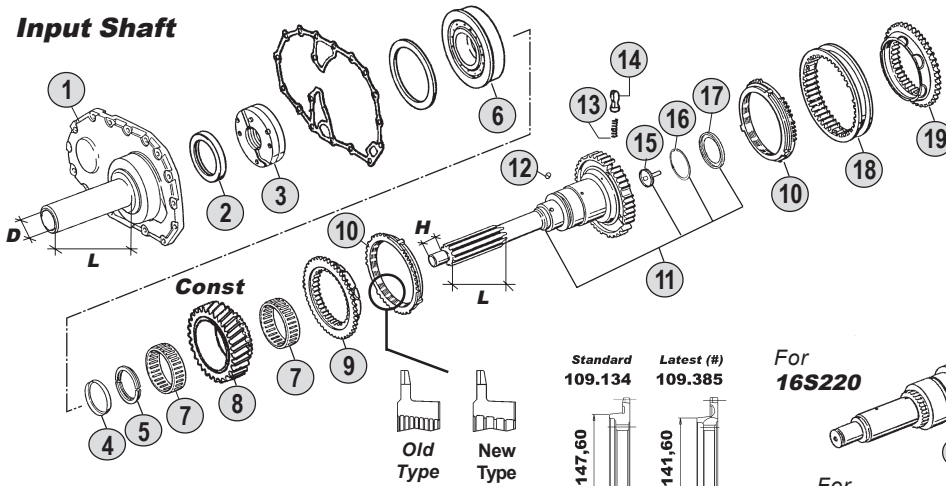
## Table

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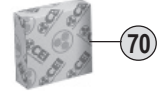
Suitable To : **ZF**

**16S150 - 16S220**

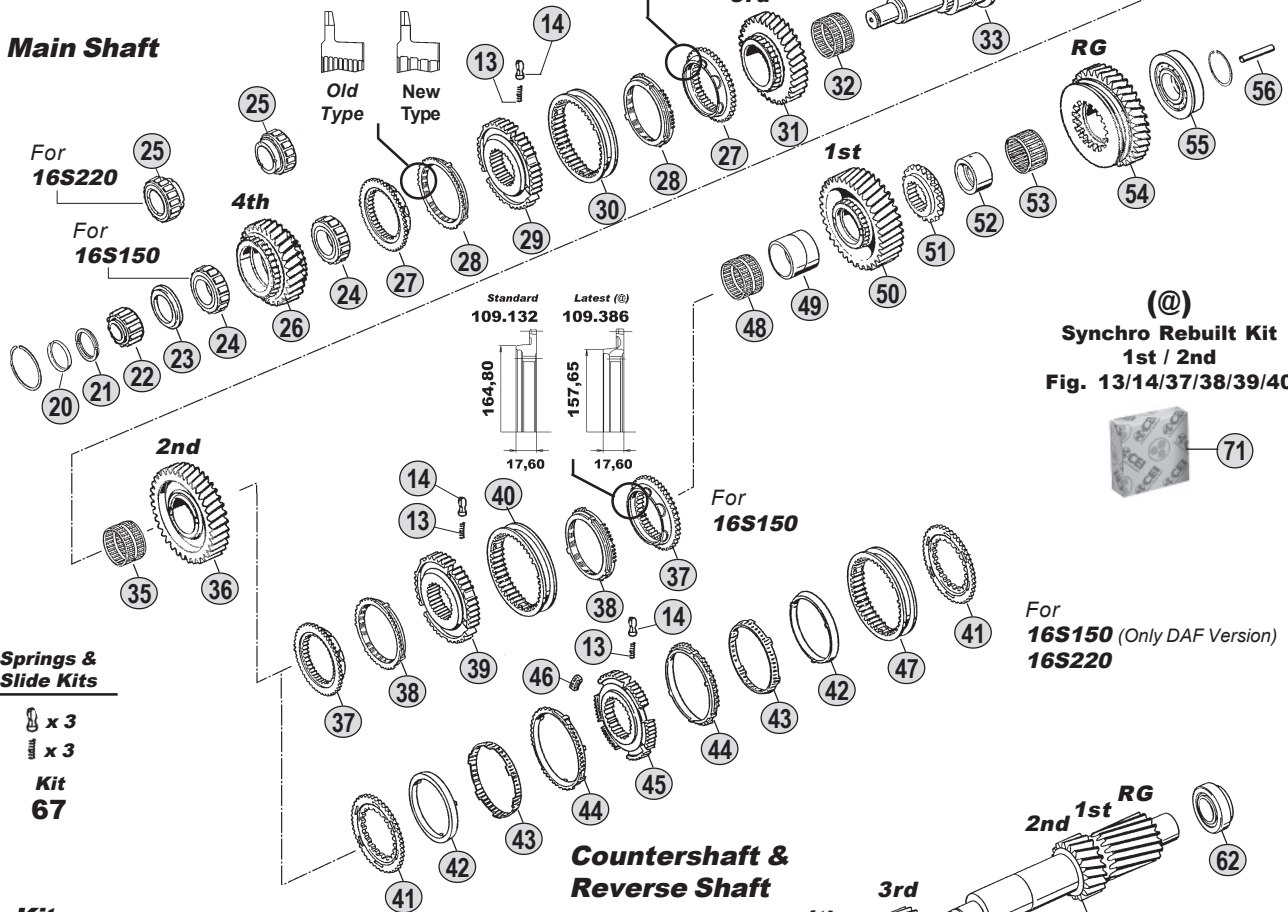
**Input Shaft**



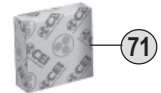
**(#)**  
Synchro Rebuilt Kit  
4th / 3rd  
Fig. 13/14/27/28/29/30



**Main Shaft**



**(@)**  
Synchro Rebuilt Kit  
1st / 2nd  
Fig. 13/14/37/38/39/40



**Springs & Slide Kits**

- x 3
- x 3
- Kit 67**

**Kits**

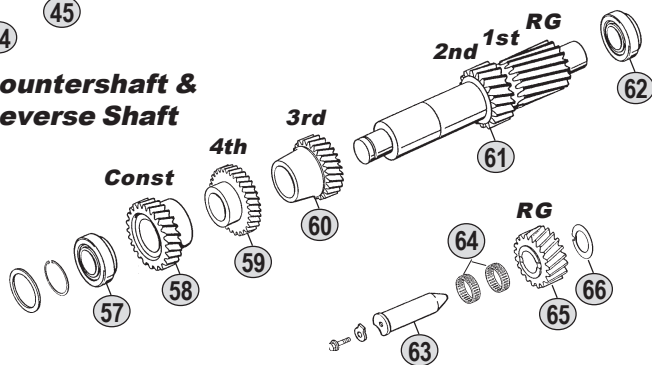


**Gasket Kit 69**



**Oil Seal Kit 68**

**Countershaft & Reverse Shaft**



**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	IVECO no.					16S150 (1313)	16S220 (1312)				
28	119.217	1316 304 149		Synchronizer Ring	2		(#)	●	●				
29	157.180	1312 304 052	93156491	Synchronizer Hub	1			●	●				
29	157.227	1316 304 162		Synchronizer Hub	1		(#)	●	●				
30	154.135	1310 304 202	42534465	Sliding Sleeve	1			●	●				
30	154.357	1315 304 135		Sliding Sleeve	1		(#)	●	●				
31	145.496	1313 304 080		Gear 3rd Speed 32 T	1		B	●					
31	145.526	1313 304 081	93163902	Gear 3rd Speed 34 T	1		C	●					
31		1312 304 075		Gear 3rd Speed 25 T	1	(1)	A		●				
31	145.498	1312 304 137		Gear 3rd Speed 32 T	1		B		●				
31	145.497	1312 304 136	93190462	Gear 3rd Speed 34 T	1		C		●				
32	137.137	0735 321 087	1905329	Needle Cage D.92x100x53	1			●					
32		0735 321 451	42535002	Needle Cage D.82x90x60	1		A		●				
32	137.138	0750 115 303	93156451	Needle Cage D.92x100x63	1		BC		●				
33	103.135	1315 304 130	93163894	Main Shaft	1			●					
34		1312 304 161		Main Shaft	1		A		●				
34	103.128	1316 304 130	42535656	Main Shaft	1		BC		●				
35	137.137	0735 321 087	1905329	Needle Cage D.92x100x53	1			●					
35	137.138	0750 115 303	93156451	Needle Cage D.92x100x63	1				●				
36	145.502	1313 304 078		Gear 2nd Speed 37 T	1		B	●					
36	145.527	1313 304 077	93163895	Gear 2nd Speed 38 T	1		C	●					
36		1312 304 142		Gear 2nd Speed	1		A		●				
36	145.504	1312 304 141		Gear 2nd Speed 37 T	1		B		●				
36	145.503	1312 304 139	93190461	Gear 2nd Speed 38 T	1		C		●				
37	109.132	1313 304 009	93163896	Synchronizer Cone	2			●					
37	109.386	1316 304 156		Synchronizer Cone	2		(@)	●					
38	119.122	1297 304 401	93160314	Synchronizer Ring	2	Old Type		●					
38	119.166	1297 304 485	42534634	Synchronizer Ring	2	New Type		●					
38	119.218	1316 304 150		Synchronizer Ring	2		(@)	●					
39	157.189	1313 304 008	93160380	Synchronizer Hub	1			●					
39	157.228	1316 304 163		Synchronizer Hub	1		(@)	●					
40	154.202	1316 304 078	42534633	Sliding Sleeve	1			●					
40	154.358	1315 304 136		Sliding Sleeve	1		(@)	●					
41		1312 304 092		Synchronizer Cone	2		A		●				
41	109.176	1312 304 106	93156573	Synchronizer Cone	2		BC		●				
42	119.152	1268 304 424	93156454	Intermediate Ring	2			●					
43	119.153	1268 304 494	42534458	Intermediate Cone	2			●					
44	119.144	1268 304 525	93156456	Synchronizer Ring	2			●					
45	157.181	1312 304 158	93163871	Synchronizer Hub	1			●					
46	156.176	1312 304 159	42531384	Pad	3			●					
47	154.190	1310 304 175	42532878	Sliding Sleeve	1			●					
48	137.160	0750 115 325	1905330	Needle Cage D.96x104x55	1			●					
48		0750 115 304		Needle Cage D.92x100x72	1		A		●				
48	137.151	0750 115 327	93156462	Needle Cage D.96x104x72	1		BC		●				
49	117.294	1313 304 038	93163897	Bush	1			●					
49		1312 304 008		Bush	1		A		●				

## Notes

(1) 16S220 Special Version - Ratio 10,14-0,72. For this version to use :  
4th Speed - Synchro Cone 1312 304 027 / 3rd Speed Synchro - Cone 1312 304 080

## Date

03 / 2006

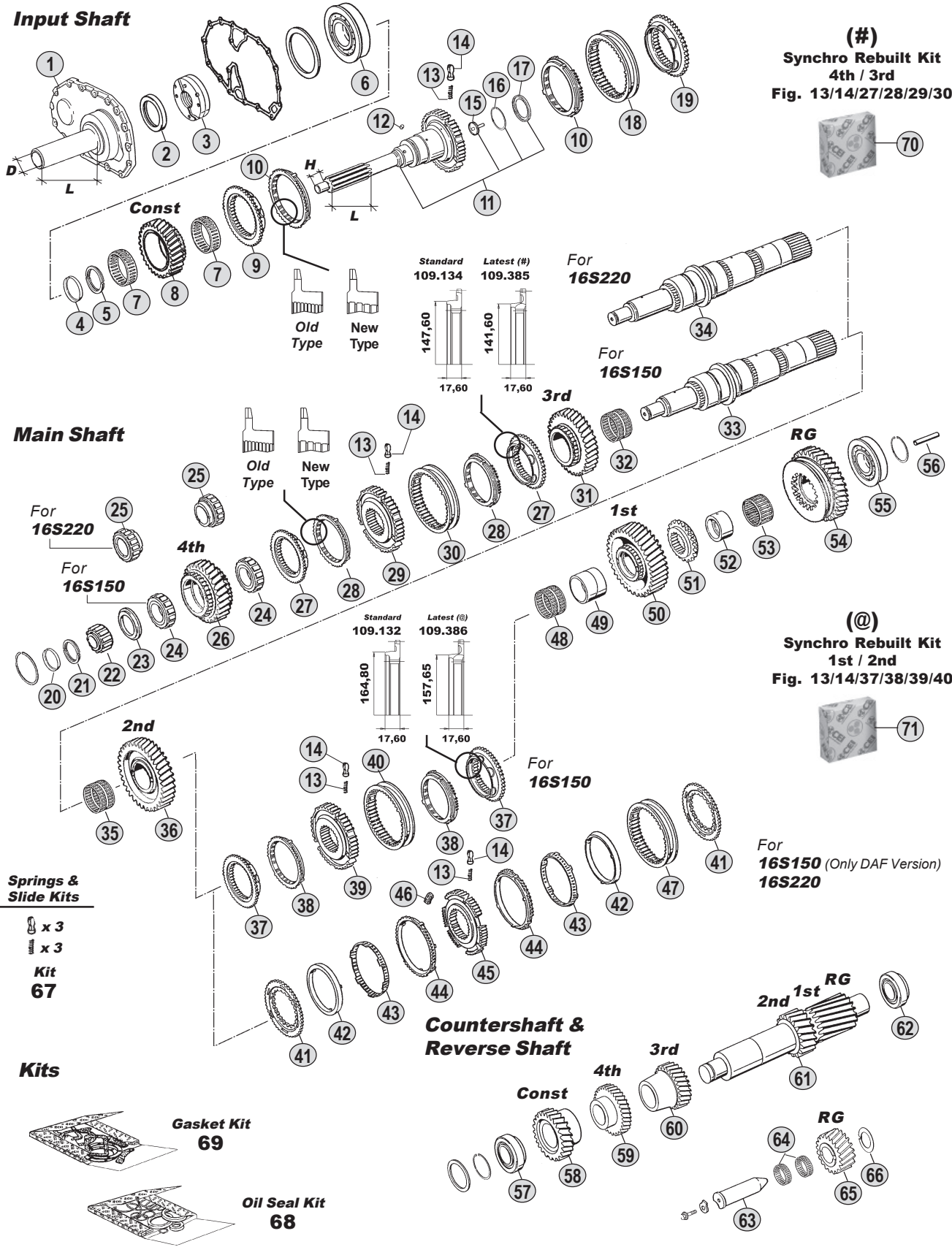
## Table

011 / A

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Suitable To : **ZF**

**16S150 - 16S220**



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**Ratios**

16S150	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
16S220	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.					IVECO no.	16S150 (1313)	16S220 (1312)		
49	117.310	1312 304 084	93156461	Bush D.85x96x72	1	BC	●				
50	145.508	1313 304 039		Gear 1st Speed 44 T	1	B	●				
50	145.528	1313 304 070	93163898	Gear 1st Speed	1	C	●				
50		1312 304 077		Gear 1st Speed 34 T	1	A	●				
50	145.509	1312 304 086		Gear 1st Speed 44 T	1	B	●				
50	145.510	1312 304 085	93156463	Gear 1st Speed 47 T	1	C	●				
51	109.177	1313 304 037	93163899	Engaging Ring	1		●				
51		1312 304 037		Engaging Ring	1	A	●				
51	109.181	1312 304 083	93156464	Engaging Ring	1	BC	●				
52	117.293	1315 304 132	42534635	Bush	1		●				
52		1312 304 011		Bush	1	A	●				
52	117.311	1316 304 133	42534705	Bush D.80x90x50	1	BC	●				
53	137.162	0750 115 324	1905331	Roller Cage D.90x98x41	1		●				
53		0735 321 103		Roller Cage D.77x85x50	1	A	●				
53	137.140	0750 115 326	93156466	Roller Cage D.90x98x50	1	BC	●				
54	147.137	1313 304 042		Reverse Gear 39 T	1	B	●				
54	147.147	1313 304 041	93163901	Reverse Gear 38 T	1	C	●				
54		1312 304 078		Reverse Gear 39 T	1	A	●				
54	147.141	1312 304 088		Reverse Gear 39 T	1	B	●				
54	147.139	1312 304 087	93156488	Reverse Gear 38 T	1	C	●				
55	130.309	0750 117 677	1905486	Bearing D.80x130x36	1		●				
55		0750 117 233		Bearing D.65x140x36,5	1	A	●				
55	130.304	0750 117 678	1905102	Bearing D.80x140x36,50	1	BC	●				
56	188.209	1312 304 150	93193506	Oil Tube	1		●	●			
57	130.242	0750 117 010	42492259	Bearing D.50,80x100x35	1		●				
57	130.308	0750 117 009	7982090	Bearing D.49,2x103,1x43,6	1		●				
58	146.475	1313 303 004		Constant Gear 37 T	1	B	●				
58	146.443	1296 303 037	93163892	Constant Gear 39 T	1	C	●				
58		1312 303 003		Constant Gear 34 T	1	A	●				
58	146.411	1312 303 006		Constant Gear 37 T	1	B	●				
58	146.412	1312 303 005	93156448	Constant Gear 39 T	1	C	●				
59	146.414	1313 303 003		Gear 4th Speed 39 T	1	B	●				
59	146.444	1296 303 036	93163893	Gear 4th Speed 37 T	1	C	●				
59		1312 303 014		Gear 4th Speed 31 T	1	A	●				
59	146.417	1312 303 017		Gear 4th Speed 39 T	1	B	●				
59	146.418	1312 303 016	93158613	Gear 4th Speed 37 T	1	C	●				
60	146.420	1313 303 002		Gear 3rd Speed 28 T	1	B	●				
60	146.445	1296 303 035	93163891	Gear 3rd Speed 26 T	1	C	●				
60		1312 303 036		Gear 3rd Speed 36 T	1	A	●				
60	146.423	1312 303 020		Gear 3rd Speed 28 T	1	B	●				
60	146.424	1312 303 021	93156447	Gear 3rd Speed 26 T	1	C	●				
61	105.106	1313 303 010		Countershaft 19-23 T	1	B	●				
61	105.113	1313 303 011	93163890	Countershaft 17-20 T	1	C	●				
61		1312 303 037		Countershaft 20-24 T	1	A	●				
61	105.107	1312 303 009		Countershaft 19-23 T	1	B	●				

## Notes

(1) 16S220 Special Version - Ratio 10,14-0,72. For this version to use :  
4th Speed - Synchro Cone 1312 304 027 / 3rd Speed Synchro - Cone 1312 304 080

## Date

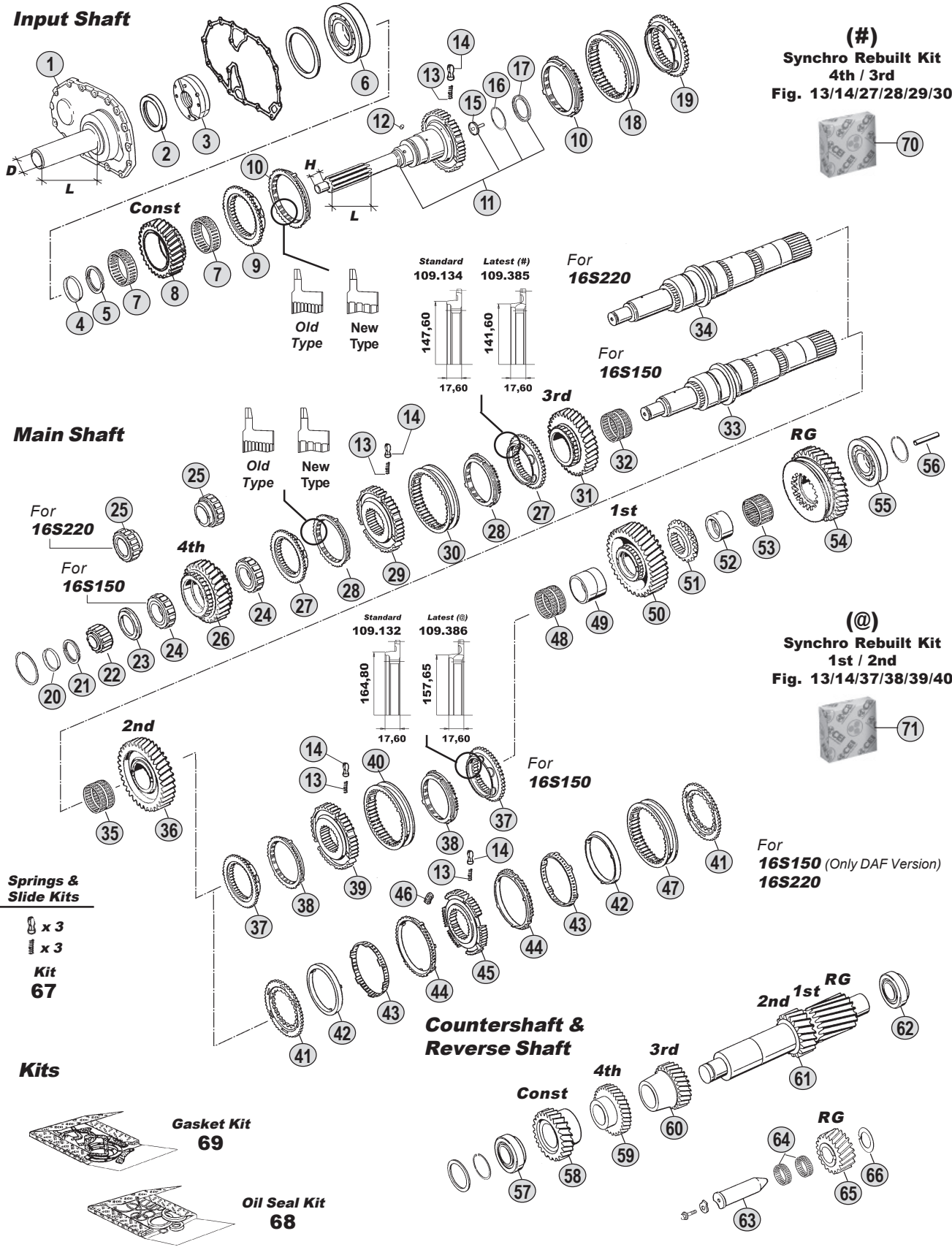
03 / 2006

## Table

011 / A

Suitable To : **ZF**

**16S150 - 16S220**



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**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00



16S150 (1313)  
16S220 (1312)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	IVECO no.					16S150 (1313)	16S220 (1312)			
61	105.108	1312 303 008	93156421	Countershaft 17-20 T	1		C	●				
62	130.307	0750 117 011	1905328	Bearing D.50,8x104,7x39,6	1			●				
62	130.308	0750 117 009	7982090	Bearing D.49,2x103,1x43,6	1			●				
63	107.108	1295 305 056	8121930	Reverse Gear Pin	1			●	●			
64	137.007	0750 115 011	7982086	Needle Cage D.45x53x21	2			●				
64	137.154	0750 115 255	93156402	Needle Cage D.45x53x25	2				●			
65	147.132	1313 305 002		Reverse Gear 21 T	1		B	●				
65	147.148	1313 305 001	93163884	Reverse Gear 24 T	1		C	●				
65		1312 305 003		Reverse Gear 21 T	1		A		●			
65	147.135	1297 305 012		Reverse Gear 21 T	1		B		●			
65	147.134	1297 305 011	93156404	Reverse Gear 24 T	1		C		●			
66	169.234	0730 150 064	1274314	Thrust Washer	1			●	●			
67	198.843	CEI 198843		Spring Slide Set	1			●	●			
68		1312 298 902	93161018	Oil Seal Kit	1			●	●			
69	198.427	1295 298 915	8124709	Gasket Kit	1			●	●			
70	298.021	1315 298 061		Synchro kit 4th/3rd Speed	1		(#)	●	●			
71	298.020	1315 298 060		Synchro kit 1st/2nd Speed	1		(@)	●				

**ECO II**  
From 16S150  
To 16S220

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## Notes

(1) 16S220 Special Version - Ratio 10,14-0,72. For this version to use :  
4th Speed - Synchro Cone 1312 304 027 / 3rd Speed Synchro - Cone 1312 304 080

## Date

03 / 2006

## Table

011 / A

Suitable To : **ZF**

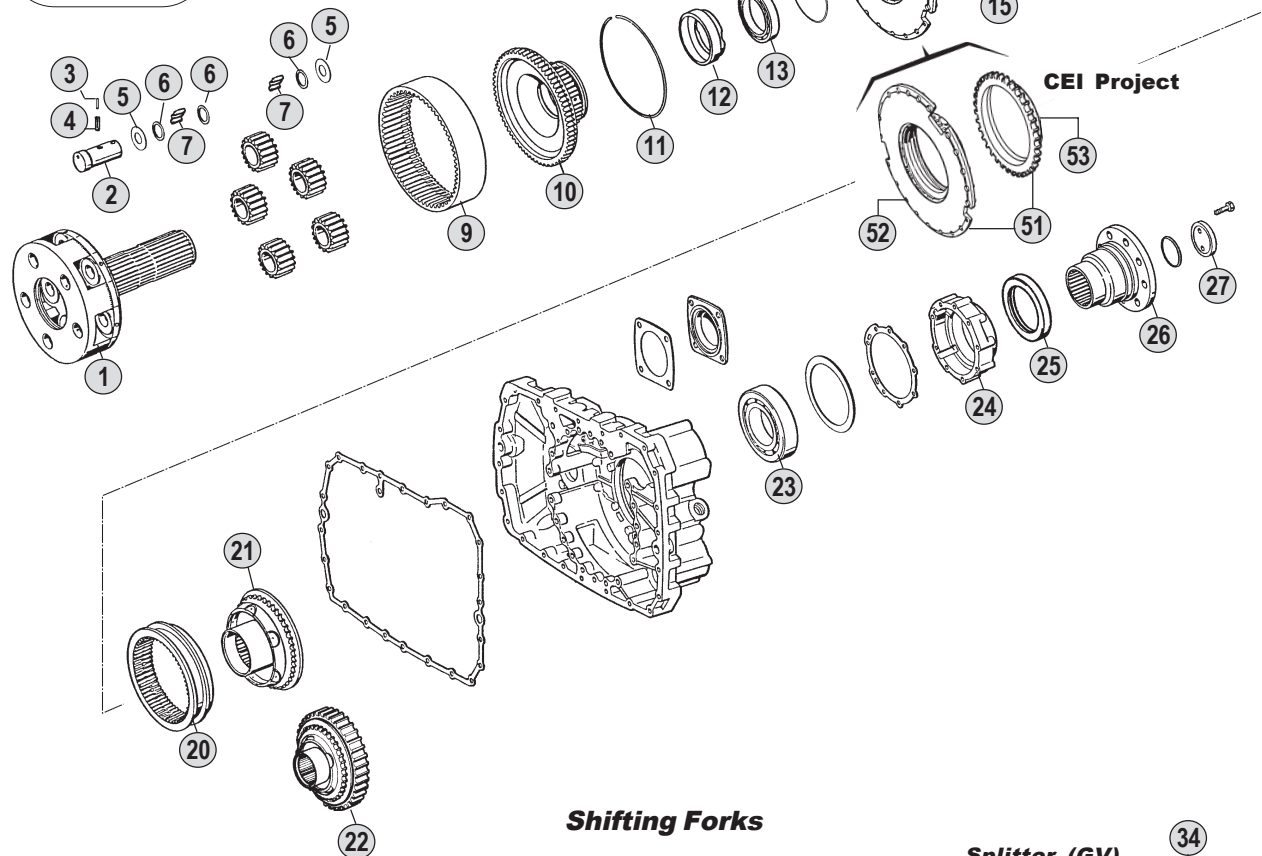
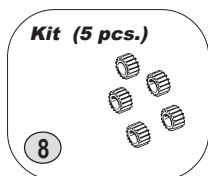
**16S150 - 16S220**

**Planet Carrier (GP)**

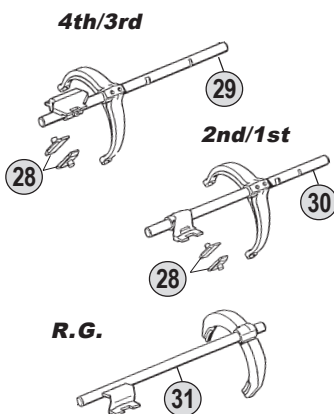
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

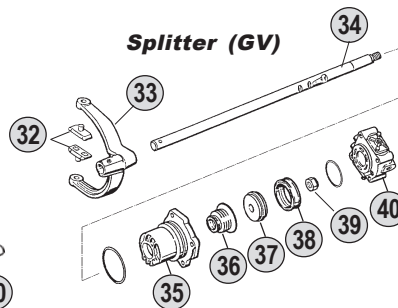
Old Type New Type



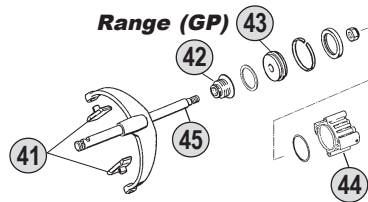
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Kits**



**Gasket Kit 50**



**Oil Seal Kit 49**

**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	IVECO no.					16S150 (1313)	16S220 (1312)			
1	190.393	1296 232 002	93163912	Planetary carrier	1			●				
1		1312 232 016		Planetary Carrier	1		A		●			
1	190.392	1316 232 006	42537518	Planetary Carrier	1		BC		●			
2	107.164	1296 332 005	93163915	Planet Shaft	5			●				
2	107.163	1297 332 109	8190756	Planet Shaft	5		A		●			
2	107.165	1312 332 026	8198829	Planet Shaft	5		BC		●			
3	160.195	0631 329 167	93191213	Lock Pin D.3x26	5			●	●			
4	160.194	0631 329 051	93191212	Lock Pin D.5x26	5			●	●			
5	169.759	0501 308 981	93156113	Thrust Washer	10			●				
5	169.753	0501 306 212	7981912	Thrust Washer D.29x64x1,5	10		A		●			
5	169.759	0501 308 981	93156113	Thrust Washer	10		BC		●			
6	169.744	0730 107 168	8198826	Spacer Ring	15			●				
6	169.410	0730 103 846	42484076	Spacer Ring D.29x39x1,00	15		A		●			
6	169.744	0730 107 168	8198826	Spacer Ring	15		BC		●			
7	171.046	0735 470 164	93163914	Roller D.10x15	140			●				
7	171.062	0750 119 116	93191132	Roller D.10x16,8	120		A		●			
7	171.062	0750 119 116	93191132	Roller D.10x16,8	140		BC		●			
8	198.800	1313 232 003	93163913	Planetary Gear Set (5 pcs)	1			●				
8	198.803	1297 232 023	7982241	Planetary Gear Set (5 pcs)	1		A		●			
8	198.801	1312 232 014	8198825	Planetary Gear Set (5 pcs)	1		BC		●			
9	123.208	1295 332 086	8198832	Crown Gear 86 T	1			●				
9	123.217	1297 332 080	8121936	Crown Gear 83 T	1		A		●			
9	123.208	1295 332 086	8198832	Crown Gear 86 T	1		BC		●			
10	150.133	1313 332 020	93163916	Flange Gear 86 T	1			●				
10		1297 332 108		Flange Gear 83 T	1		A		●			
10	150.134	1297 332 120	8198830	Flange Gear 86 T	1		BC		●			
11	111.198	0730 505 056	8198833	Locking Wire	1			●				
11	111.129	0730 505 055	42492409	Locking Wire	1		A		●			
11	111.198	0730 505 056	8198833	Locking Wire	1		BC		●			
12		1297 332 002	42492428	Ring	1			●				
13	130.310	0750 116 165	42492449	Bearing D.80x110x16	1			●				
13	130.311	0635 338 035	8195468	Bearing D.100x125x13	1				●			
14	198.358	1296 233 006	7982213	Synchronizer Cone	1			●	●			
15	119.085	1296 333 022	7982226	Synchronizer Ring	2	Old Type		●	●			
15	119.172	1296 333 045	42532826	Synchronizer Ring	2	New Type		●	●			
16	157.182	1313 333 001	93163920	Synchronizer Hub	1			●				
16	157.183	1297 333 115	8198839	Synchronizer Hub	1				●			
17	160.116	1240 304 278	2960200	Pressure Piece	9			●	●			
18	156.036	0732 040 386	9931785		9			●	●			
19	156.037	0732 040 385	8832940	Outer Spring De.6x34	9			●	●			
20	154.098	1296 333 023	7982227	Sliding Sleeve	1			●	●			
21	198.374	1313 233 001	93156049	Synchronizer Cone (38 Spl.)	1			●				
21	198.790	1297 233 056	8198840	Synchronizer Cone (41 spl.)	1				●			
22		1297 333 118		Synchronizer Cone	1	With Retarder		●				
22		1312 333 014		Synchronizer Cone	1	With Retarder		●				

## Notes

- (4) Only Pneumatic Version  
 (5) To be coupled Together  
 (6) To be coupled Together

## Date

03 / 2006

## Table

011 / B

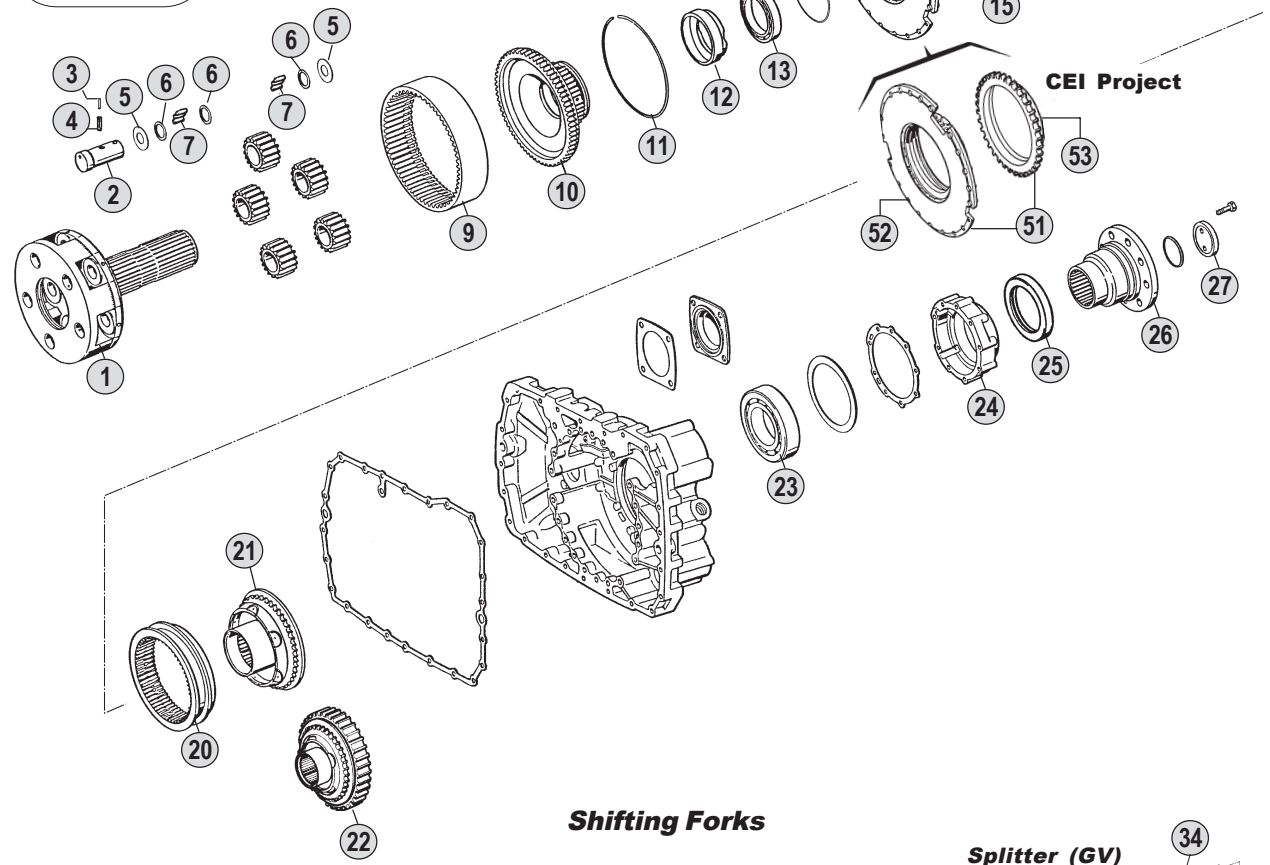
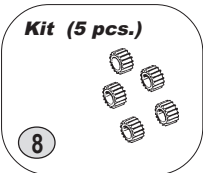
Suitable To : **ZF**

**16S150 - 16S220**

**Planet Carrier (GP)**

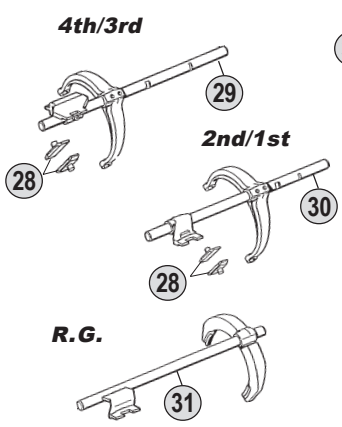
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

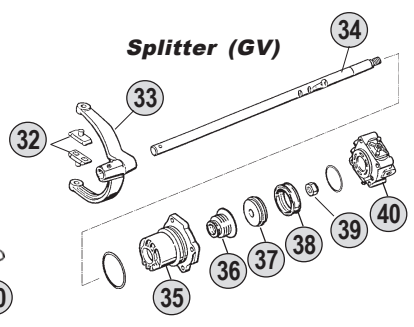


**CEI Project**

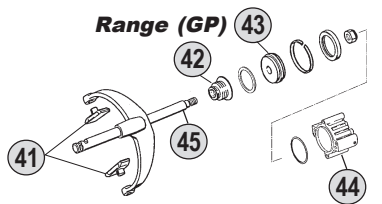
**Shifting Forks**



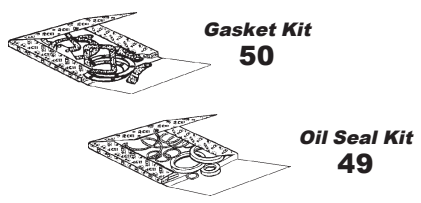
**Splitter (GV)**



**Range (GP)**



**Kits**



Ratios			
16S150	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
16S220	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					IVECO no.	16S150 (1313)	16S220 (1312)			
23	130.245	0750 116 002	7982088	Bearing D.90x160x30	1		●	●				
24	128.098	1315 301 220	8198822	Cover	1		●	●				
25		0750 111 341	93194330	Oil Seal 105x130x12	1		●	●				
26		1313 338 002	93163919	Output Flange	1	D.180-4 H.	●					
26		1313 338 011		Output Flange	1	D.204-4 H.	●					
26		1297 333 110	93156114	Output Flange	1	D.180-10 H.		●				
27	188.077	1295 332 051	7982207	Stop Washer	1		●					
27		1312 332 028	8198837	Stop Washer	1			●				
28	141.163	1297 306 120	8198817	Slide	2		●	●				
29		1313 206 002	93163905	Fork	1		●					
29		1313 206 005		Fork	1		●					
29		1313 206 011		Fork	1	(4)	●					
29		1312 206 025	93190464	Fork	1			●				
29		1312 206 026	93156529	Fork	1			●				
29		1312 206 045		Fork	1	(4)		●				
30		1313 206 001	93163904	Fork	1		●					
30		1313 206 004		Fork	1		●					
30		1313 206 031		Fork	1	(4)	●					
30		1312 206 013	93190463	Fork	1			●				
30		1312 206 017	93157560	Fork	1			●				
30		1312 206 043		Fork	1	(4)		●				
31		1313 206 015	93163906	Fork	1		●					
31		1313 206 016		Fork	1		●					
31		1313 206 026		Fork	1	(4)	●					
31		1312 206 027	93190465	Fork	1			●				
31		1312 206 028	93156575	Fork	1			●				
31		1312 206 033		Fork	1	(4)		●				
32	141.163	1297 306 120	8198817	Slide	2		●	●				
33		1313 312 002	93156532	Fork	1		●	●				
34		1312 312 002	93163909	Rod	1		●					
34		1312 312 001	93156531	Rod	1			●				
35	132.046	1296 312 042	8123433	Cylinder	1		●	●				
36	139.331	0750 112 034	8190753	Cap Collar D.25x38x14,2	1		●	●				
37		1312 312 003	93156534	Piston	1		●	●				
37		1312 312 015		Piston	1	(4)	●	●				
38		0750 112 089	8194836	Ring 53x63x16,2	1		●	●				
38		0750 112 048	8193163	Ring 53x63x5	1	(4)	●	●				
39		0737 006 095	93190550	Nut	1		●	●				
40		0750 132 032		Cylinder	1		●	●				
40		0750 132 033	8121938	Cylinder	1		●	●				
41	141.085	1296 334 004	7982228	Bronze Slide	2		●	●				
42	139.331	0750 112 034	8190753	Cap Collar D.25x38x14,2	1		●	●				
43	189.422	1296 334 039	42492447	Piston	1	(5)	●	●				
43		1297 334 056	8198841	Piston	1	(6)	●	●				
44	132.047	1295 334 075	7982230	Cylinder	1	(5)	●	●				

## Notes

- (4) Only Pneumatic Version  
(5) To be coupled Together  
(6) To be coupled Together

## Date

03 / 2006

## Table

011 / B

Suitable To : **ZF**

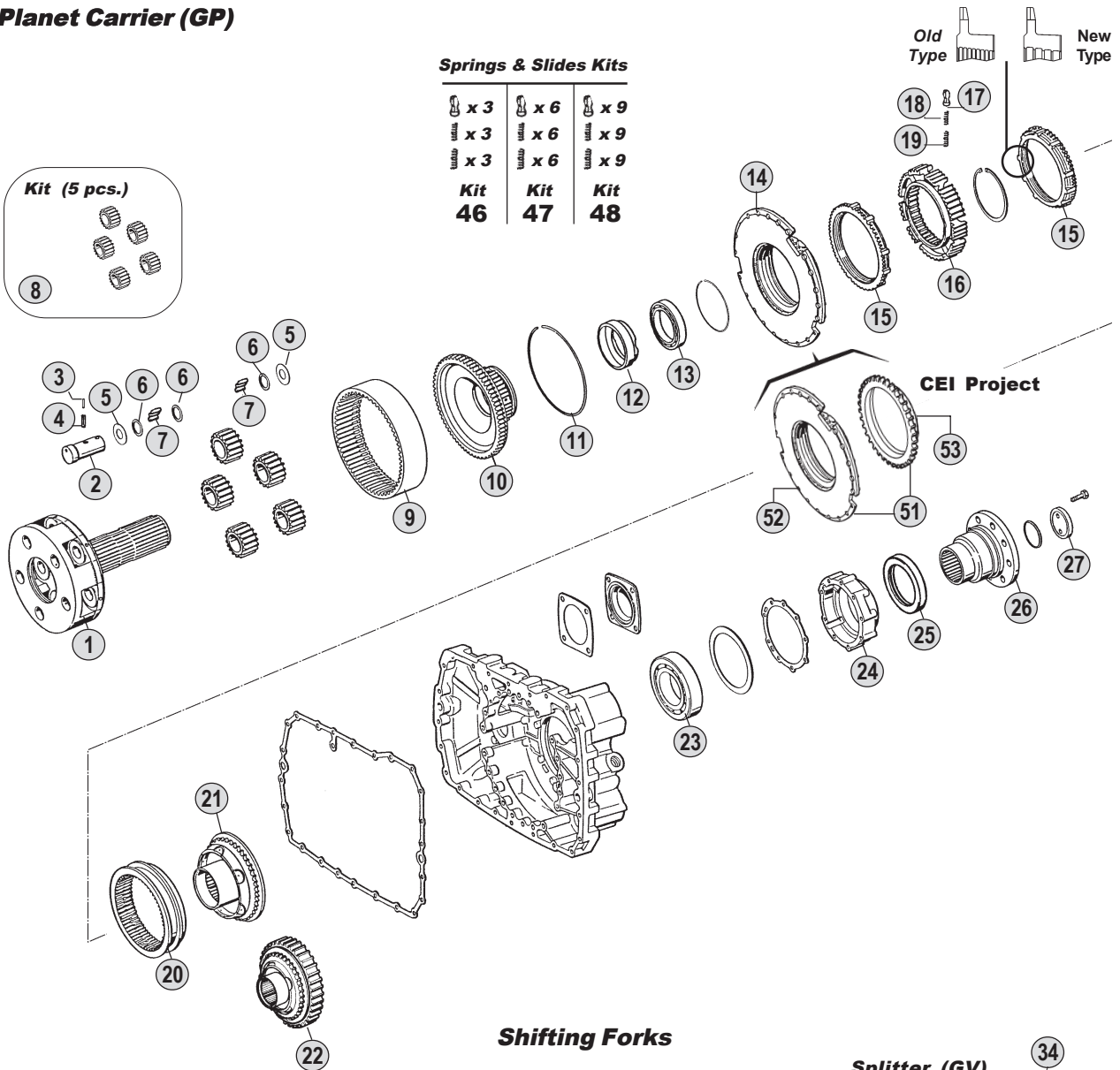
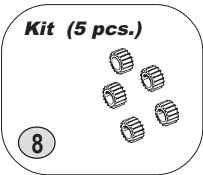
**16S150 - 16S220**

**Planet Carrier (GP)**

**Springs & Slides Kits**

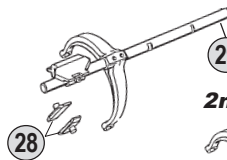
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

Old Type New Type

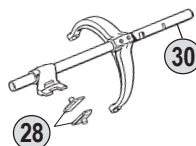


**Shifting Forks**

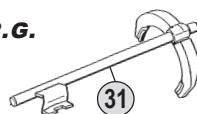
**4th/3rd**



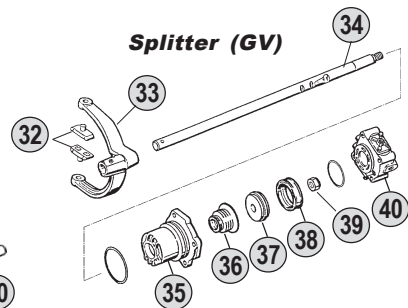
**2nd/1st**



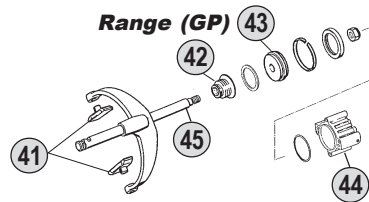
**R.G.**



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	IVECO no.								
44		1297 334 055	8198844	Cylinder	1	(6)	● ●				
45		1313 234 011	93194038	Fork	1		● ●				
45		1313 234 012		Fork	1	(4)	● ●				
45	149.171	1312 234 002	93190033	Fork Lever	1		● ●				
45		1312 234 004		Fork	1	(4)	● ●				
46	<b>198.339</b>	1268 298 938		Spring Slide Set	1		● ●				
47	<b>198.564</b>	CEI 198564		Spring Slide Set	1		● ●				
48	<b>198.842</b>	1295 298 933		Spring Slide Set	1		● ●				
49		1312 298 902	93161018	Oil Seal Kit	1		● ●				
50	<b>198.427</b>	1295 298 915	8124709	Gasket Kit	1		● ●				
51	<b>198.856</b>	CEI 198856		Synchronizer cone kit	1	Can repl. fig. 14	● ●				
52	<b>135.128</b>	CEI 135128		Saddle Plate	1	Use with fig. 53	● ●				
53	<b>109.174</b>	1296 333 050	42535041	Synchronizer Cone	1	Use with fig. 52	● ●				

**ECO II**  
From 16S150  
To 16S220

## Notes

- (4) Only Pneumatic Version
- (5) To be coupled Together
- (6) To be coupled Together

## Date

03 / 2006

## Table

**011** / B





suitable to :

**Z.F.****EcoSplit III****From 16S151 to 16S221****Planetary Gear with STRAIGHT TEETH****Application**

	16S151 (1315)	16S221 (1316)		
<b>MERCEDES</b>				
<b>M.A.N.</b>				
<b>IVECO</b>				
<b>R.V.I.</b>				
<b>DAF</b>				
<b>VOLVO</b>				

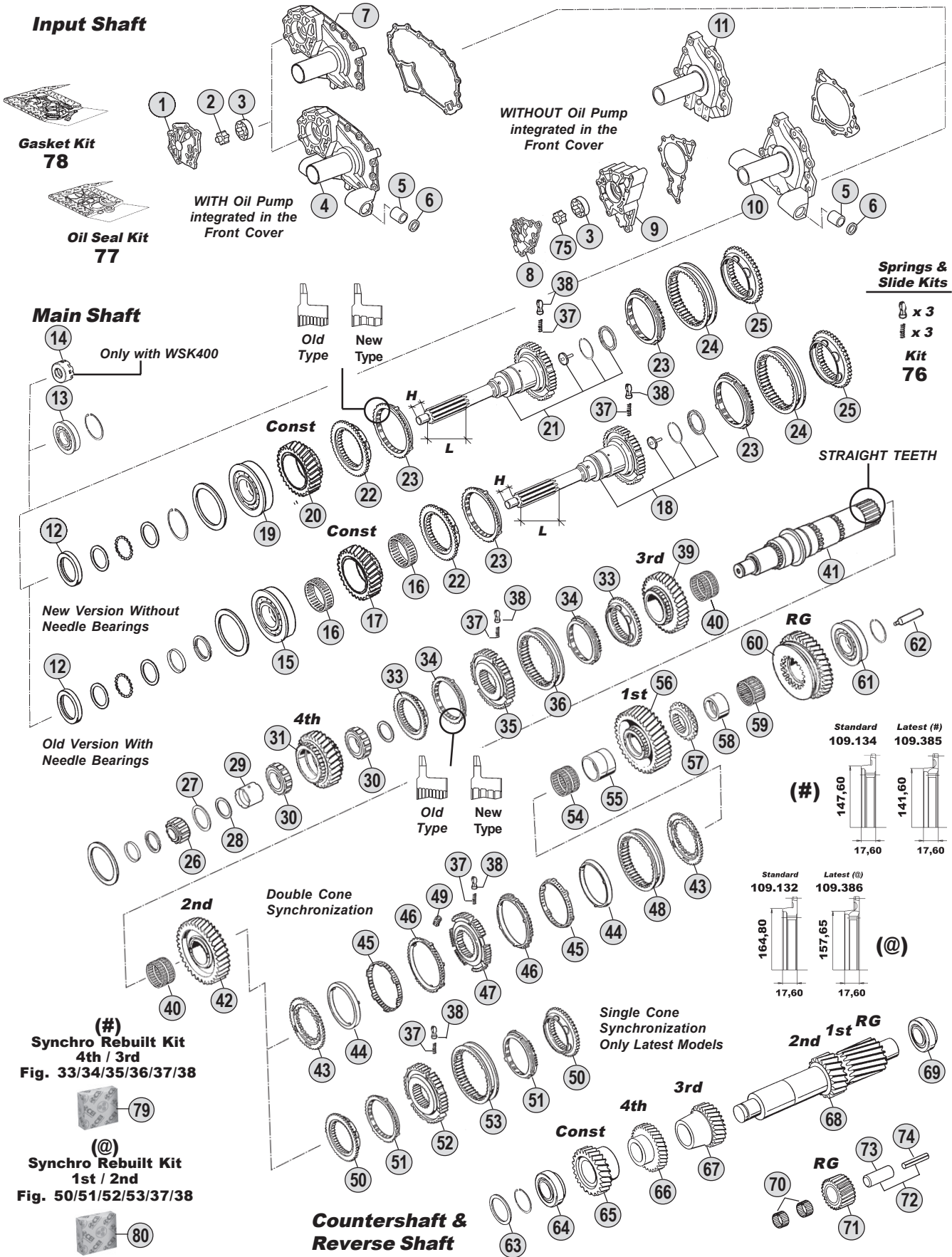
**Ratios**

	R.13,80-0,84 <b>A</b>	R.13,85-0,84 <b>B</b>	R.13,86-0,84 <b>C</b>	R.16,47-1,00 <b>D</b>	R.16,53-1,00 <b>E</b>
<b>16S151</b>					
<b>16S221</b>					

**ECO III**  
From 16S151  
To 16S221

Suitable To : **ZF**

**16S151 - 16S221**



**Ratios**

16S151	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
16S221	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	IVECO no.											
1		1315 302 013	93190510	Cover	1			●	●					
2		1315 202 014	93191178	Rotor	1			●	●					
3		1315 303 027	93191179	Oil Pump Housing	1			●	●					
4		1315 302 057	93192194	Front Cover	1			●	●					
5		0730 260 398	93190506	Bush	4			●	●					
6		0501 312 738	93190507	Oil Seal 30x37x4	4			●	●					
7		1315 302 045		Front Cover	1			●	●					
7		1315 302 047		Front Cover	1			●	●					
8		1315 302 120	42530599	Cover	1			●	●					
9		1315 302 121	42531750	Housing	1			●	●					
10		1315 202 055	42536234	Front Cover	1			●	●					
10		1315 202 058		Front Cover	1			●	●					
10		1315 202 061		Front Cover	1			●	●					
10		1315 202 065		Front Cover	1			●	●					
10		1315 202 060	42536388	Front Cover	1	With WSK400		●	●					
11		1315 302 075		Front Cover	1			●	●					
11		1315 302 136		Front Cover	1			●	●					
12		0734 310 386	42533218	Oil Seal 55x75x8	1			●	●					
12		0734 310 104	42484086	Oil Seal 52x68x8	1	(1)		●	●					
12		0734 319 514		Oil Seal 52x72x8	1	(2)		●	●					
13		0635 450 098	1905359	Bearing 52x90x33	1	(2)		●	●					
14		4130 309 063	42484059	Disk	1	(1)		●	●					
15	<b>130.306</b>	0750 117 431	1905101	Bearing D.75x150x30,50	1	(3-4-5)		●	●					
16	<b>137.133</b>	0735 321 437	1909494	Needle Cage D.93x101x25	2	(3)		●						
16	<b>137.148</b>	0750 115 310	1905327	Needle Cage D.93x101x25	2	(4)		●						
16	<b>137.134</b>	0735 321 438	1905493	Needle Cage D.93x101x32,50	2	(5)			●					
17	<b>145.524</b>	1315 302 008		Constant Gear 34 T	1	(3)	B	●						
17	<b>145.451</b>	1315 302 007	93190490	Constant Gear 30 T	1	(4)	DE	●						
17	<b>145.472</b>	1316 302 001	93191176	Constant Gear 30 T	1	(5)	D		●					
18	<b>190.309</b>	1315 202 022		Input Shaft	1	L=125 H=32		●						
18	<b>190.296</b>	1315 202 012	93190489	Input Shaft	1			●						
18	<b>190.297</b>	1316 202 005	93191175	Input Shaft	1				●					
19	<b>130.518</b>	0750 117 732	2991733	Bearing D.85x150x30,50	1			●	●					
20	<b>145.513</b>	1315 302 173		Constant Gear 34 T	1		A	●						
20	<b>145.556</b>	1315 302 158	42534905	Constant Gear 35 T	1		C	●						
20	<b>145.553</b>	1315 302 157	42534629	Constant Gear 30 T	1		D	●						
20	<b>145.487</b>	1316 302 065	42535690	Constant Gear 34 T	1		A		●					
20	<b>145.554</b>	1316 302 067	42534756	Constant Gear 35 T	1		C		●					
20	<b>145.483</b>	1316 302 066	42534644	Constant Gear 30 T	1		D		●					
21	<b>190.304</b>	1315 202 037		Input Shaft	1	L=125 H=31,5		●						
21	<b>190.315</b>	1315 202 040	42534440	Input Shaft	1	L=102 H=32		●						
21		1315 202 048		Input Shaft	1			●						
21	<b>190.317</b>	1315 221 002		Input Shaft	1	NMV221 (Clutch PTO)		●						
21	<b>190.303</b>	1316 202 025		Input Shaft	1	L=134 H=32			●					
21	<b>190.300</b>	1316 202 026	42534643	Input Shaft	1				●					

**ECO III**  
From 16S151  
To 16S221

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model **WITH** integrated Oil Pump  
 (10) For model **WITHOUT** integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc. Fig. 74 (\*) New Models only. **DO NO MIX** Single Cone S. with Double Cone S.  
 (14) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (15) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

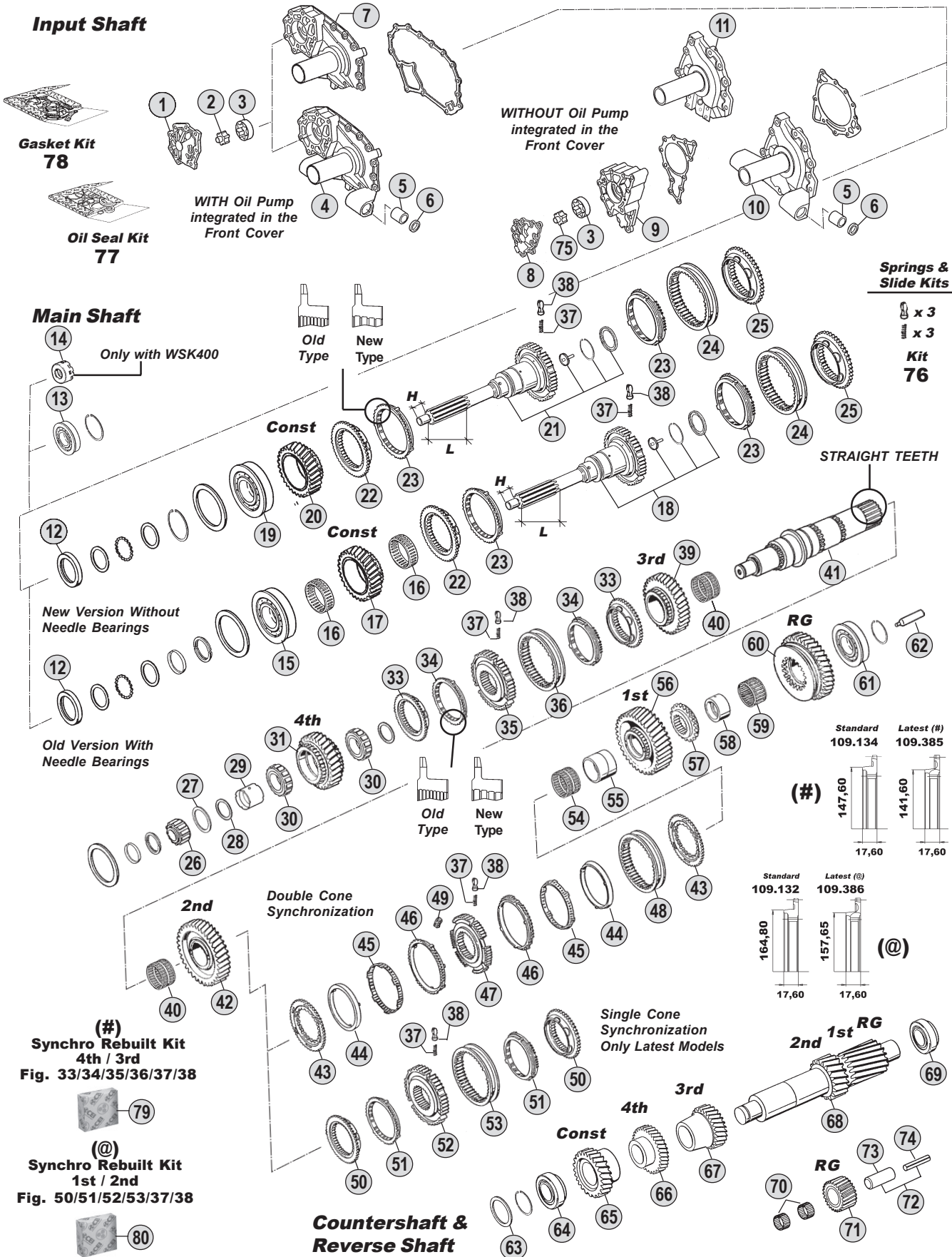
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## Table

012 / A

Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.					IVECO no.	16S151 (1315)	16S221 (1316)		
21	190.310	1316 202 033	42536387	Input Shaft	1	L=63 H=46,5	●				
21		1316 202 038		Input Shaft	1		●				
21		1316 221 017		Input Shaft	1	NMV221 (Clutch PTO)	●				
22	109.134	1312 304 027	93156419	Synchronizer Cone	1		●	●			
23	119.119	1297 304 402	93159684	Synchronizer Ring	2	Old Type	●	●			
23	119.167	1297 304 484	42532487	Synchronizer Ring	2	New Type	●	●			
24	154.135	1310 304 202	42534465	Sliding Sleeve	1		●	●			
25	109.133	1312 304 056	93156418	Synchronizer Cone	1		●	●			
26	137.150	0750 117 232	93156500	Roller Cage D.42x40,30	1		●	●			
27		1315 304 048		Ring	1	S.8,00 mm	●	●			
27		1315 304 043	93191196	Ring	1	S.7,50 mm	●	●			
28	169.776	0750 101 158	42535316	Thrust Washer 81,5x5	1	(6)	●	●			
29	117.321	0750 119 125	42536245	Bush 67x77x54,1	1	(6)	●				
29	117.320	0750 119 124	42535317	Bush D.67x77x66,10	1	(6)		●			
30	137.164	0750 115 534	2992189	Roller Cage D.77x101x29	2	(6)	●				
30	137.156	0750 118 198	1905334	Roller Cage D.67x101x32	2	(3-4)	●				
30	137.136	0750 115 531	2991925	Roller Cage D.77x101x29	2	(6)		●			
30		0750 118 258	1905369	Roller Cage D.67x101x38	2	(5)		●			
31	146.431	1315 304 017		Gear 4th Speed 30 T	1		●				
31	146.320	1315 304 089	42532887	Gear 4th Speed 32 T	1			●			
31	145.729	1315 304 010	93190520	Gear 4th Speed	1	Old (7)	●				
31	146.410	1316 304 007	93192501	Gear 4th Speed 30 T	1			●			
31	146.401	1316 304 103	42532747	Gear 4th Speed 32 T	1			●			
31	145.730	1316 304 006	93191189	Gear 4th Speed	1	Old (8)	●				
33	109.134	1312 304 027	93156419	Synchronizer Cone	2		●	●			
33	109.385	1316 304 159		Synchronizer Cone	2	(#)	●	●			
34	119.119	1297 304 402	93159684	Synchronizer Ring	2	Old Type	●	●			
34	119.167	1297 304 484	42532487	Synchronizer Ring	2	New Type	●	●			
34	119.217	1316 304 149		Synchronizer Ring	2	(#)	●	●			
35	157.180	1312 304 052	93156491	Synchronizer Hub	1		●	●			
35	157.227	1316 304 162		Synchronizer Hub	1	(#)	●	●			
36	154.135	1310 304 202	42534465	Sliding Sleeve	1		●	●			
34	154.357	1315 304 135		Sliding Sleeve	1	(#)	●	●			
37	156.140	0732 040 409	2967403	Spring D.6,50x23,50	3		●	●			
38	160.189	1297 304 436	93156036	Pressure Piece	3		●	●			
39	145.514	1315 304 028		Gear 3rd Speed 32 T	1		●				
39	145.456	1315 304 027	93190519	Gear 3rd Speed 34 T	1		●				
39	145.488	1316 304 009	93192500	Gear 3rd Speed 32 T	1			●			
39	145.473	1316 304 008	93191188	Gear 3rd Speed 34 T	1			●			
40	137.137	0735 321 087	1905329	Needle Cage D.92x100x53	2		●				
40	137.138	0750 115 303	93156451	Needle Cage D.92x100x63	2			●			
41	103.135	1315 304 130	93163894	Main Shaft	1		●				
41	103.127	1315 304 029		Main Shaft	1		●				
41	103.128	1316 304 130	42535656	Main Shaft	1			●			
42	145.455	1315 304 026		Gear 2nd Speed 37 T	1		●				

**ECO III**  
From 16S151  
To 16S221

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Tutti i nostri particolari non sono originali ma con essi intercambiabili. I riferimenti originali, le figure, i modelli sono esposti a semplice titolo indicativo. La nostra produzione riporta il nostro marchio.

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model WITH integrated Oil Pump  
 (10) For model WITHOUT integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc fig. 74 (\*) New Models only. Do NO MIX Single Cone S. with Double Cone S.  
 (#) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 79  
 (@) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 80

Date

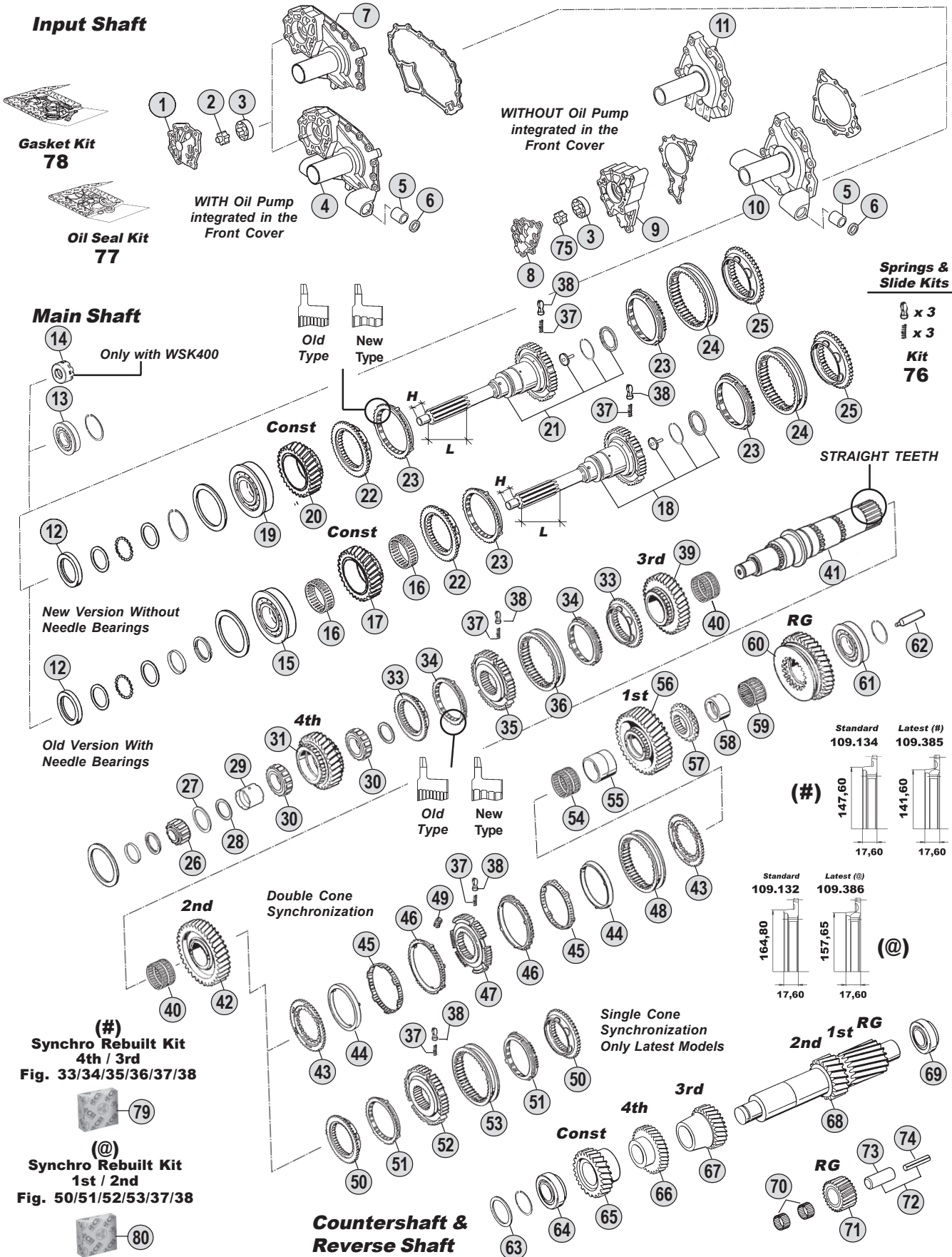
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Table

012 / A

Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

16S151	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
16S221	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	IVECO no.					16S151 (1315)	16S221 (1316)					
42	145.454	1315 304 025	93190515	Gear 2nd Speed 38 T	1		CDE	●						
42	145.515	1316 304 003	93192497	Gear 2nd Speed 37 T	1		A		●					
42	145.474	1316 304 002	93191184	Gear 2nd Speed 38 T	1		CD		●					
43	109.176	1312 304 106	93156573	Synchronizer Cone	2			●	●					
44	119.152	1268 304 424	93156454	Intermediate Ring	2			●	●					
45	119.153	1268 304 494	42534458	Intermediate Cone	2			●	●					
46	119.144	1268 304 525	93156456	Synchronizer Ring	2			●	●					
47	157.181	1312 304 158	93163871	Synchronizer Hub	1			●	●					
48	154.190	1310 304 175	42532878	Sliding Sleeve	1			●	●					
49	156.176	1312 304 159	42531384	Pad	3			●	●					
50	109.132	1313 304 009	93163896	Synchronizer Cone	2	(*)		●	●					
50	109.386	1316 304 156		Synchronizer Cone	2		(@)	●	●					
51	119.122	1297 304 401	93160314	Synchronizer Ring	2	(*) Old Type		●	●					
51	119.166	1297 304 485	42534634	Synchronizer Ring	2	(*) New Type		●	●					
51	119.218	1316 304 150		Synchronizer Ring	2		(@)	●	●					
52	157.189	1313 304 008	93160380	Synchronizer Hub	1	(*)		●	●					
52	157.228	1316 304 163		Synchronizer Hub	1		(@)	●	●					
53	154.202	1316 304 078	42534633	Sliding Sleeve	1	(*)		●	●					
53	154.358	1315 304 136		Sliding Sleeve	1		(@)	●	●					
54	137.160	0750 115 325	1905330	Needle Cage D.96x104x55	1			●						
54	137.151	0750 115 327	93156462	Needle Cage D.96x104x72	1				●					
55	117.294	1313 304 038	93163897	Bush	1			●						
55	117.310	1312 304 084	93156461	Bush D.85x96x72	1				●					
56	145.453	1315 304 014		Gear 1st Speed 44 T	1		AB	●						
56	145.452	1315 304 004	93190516	Gear 1st Speed 47 T	1		CDE	●						
56	145.522	1316 304 013	93192498	Gear 1st Speed 44 T	1		A		●					
56	145.475	1316 304 010	93191185	Gear 1st Speed 47 T	1		CD		●					
57	109.144	1315 304 018	93190517	Engaging Ring	1			●						
57	109.163	1312 304 124	93191186	Engaging Ring	1				●					
58	117.293	1315 304 132	42534635	Bush	1			●						
58	117.311	1316 304 133	42534705	Bush D.80x90x50	1				●					
59	137.162	0750 115 324	1905331	Roller Cage D.90x98x41	1			●						
59	137.140	0750 115 326	93156466	Roller Cage D.90x98x50	1				●					
60	147.124	1315 304 013		Reverse Gear 42 T	1		AB	●						
60	147.123	1315 304 006	93190518	Reverse Gear 44 T	1		CDE	●						
60	147.144	1316 304 015	93192499	Reverse Gear 42 T	1		A		●					
60	147.128	1316 304 012	93191187	Reverse Gear 44 T	1		CD		●					
61	130.309	0750 117 677	1905486	Bearing D.80x130x36	1			●						
61	130.304	0750 117 678	1905102	Bearing D.80x140x36,50	1				●					
62	188.209	1312 304 150	93193506	Oil Tube	1			●	●					
63		0730 102 099	2968027	Washer	1	S.3,00 mm (9)		●						
63		0730 102 072		Washer	1	S.2,00 mm (9)		●						
63		0730 106 917	93156423	Washer	1	S.3,00 mm (10)		●						
63		0730 101 471	93156443	Washer	1	S.2,00 mm (10)		●						
63		0730 106 917	93156423	Washer	1	S.3,00 mm		●						

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model WITH integrated Oil Pump  
 (10) For model WITHOUT integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc. Fig. 74  
 (\*) New Models only. **DO NO MIX** Single Cone S. with Double Cone S.  
 @) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 @) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

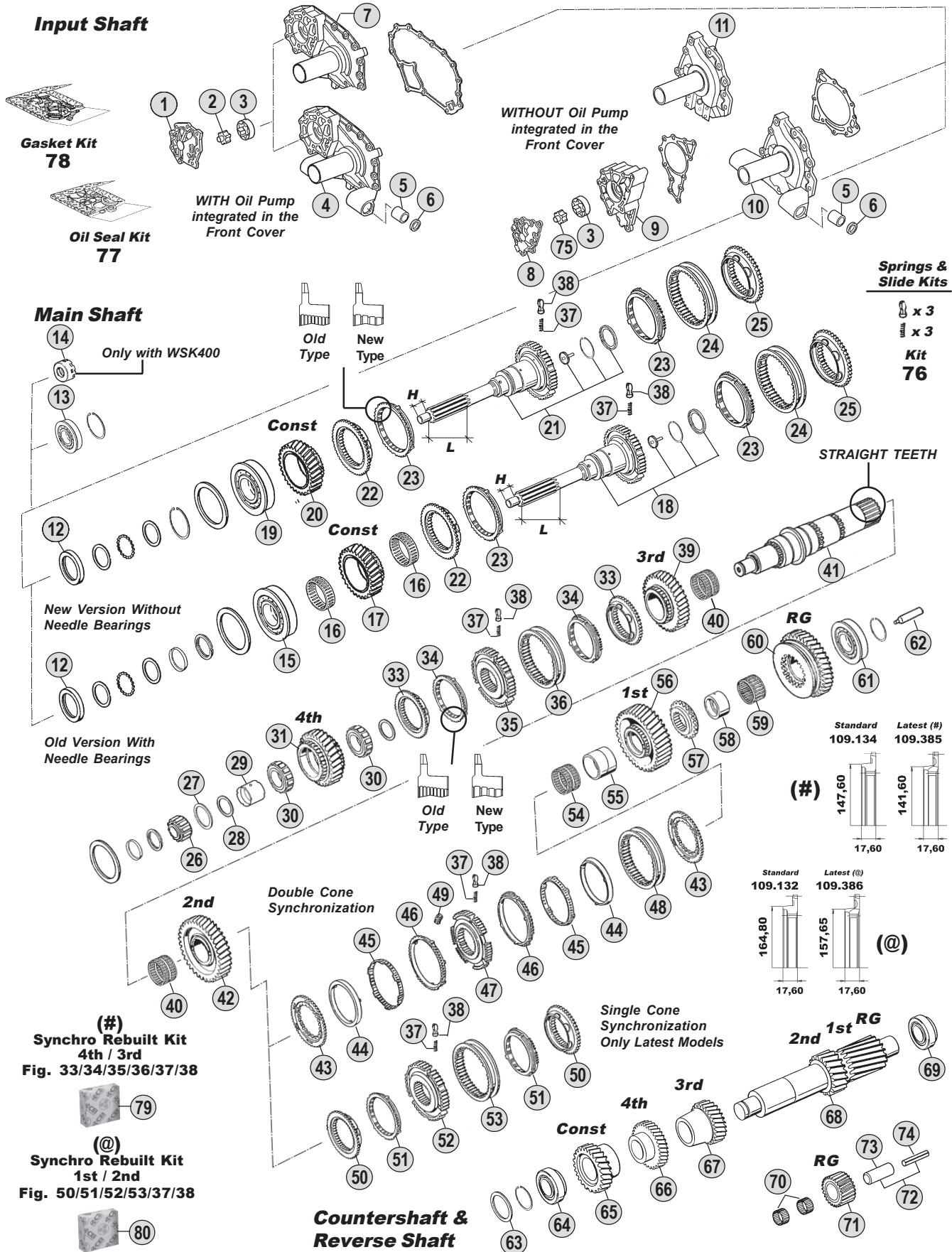
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## Table

012 / A

Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

16S151	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
16S221	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -





Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	IVECO no.									
63		0730 101 471	93156443	Washer	1	S.2,00 mm		●				
64	130.242	0750 117 010	42492259	Bearing D.50,80x100x35	1	(9)		●				
64	130.308	0750 117 009	7982090	Bearing D.49,2x103,1x43,6	1	(10)		●				
64	130.308	0750 117 009	7982090	Bearing D.49,2x103,1x43,6	1			●				
65	146.427	1315 303 052		Constant Gear 37 T	1		AB	●				
65	146.473	1315 303 051	42534908	Constant Gear 32 T	1		C	●				
65	146.367	1315 303 008	93190513	Constant Gear 39 T	1		DE	●				
65	146.407	1316 303 031	93194242	Constant Gear 37 T	1		A	●				
65	146.428	1316 303 002	93192495	Constant Gear 37 T	1	Old (11)	A	●				
65	146.469	1316 303 064	42534749	Constant Gear 32 T	1		C	●				
65	146.486	1316 303 030	93194080	Constant Gear 39 T	1		D	●				
65	146.388	1316 303 001	93191182	Constant Gear 39 T	1	Old (12)	D	●				
66	146.429	1315 303 046		Gear 4th Speed 39 T	1		AB	●				
66	146.474	1315 303 050	42532886	Gear 4th Speed 35 T	1		CDE	●				
66	146.389	1315 303 006	93190514	Gear 4th Speed 37 T	1	Old (7)	D	●				
66	146.408	1316 303 004	93192496	Gear 4th Speed 39 T	1		A	●				
66	146.426	1316 303 065	42532748	Gear 4th Speed 35 T	1		CD	●				
66	146.390	1316 303 003	93191183	Gear 4th Speed 37 T	1	Old (8)	D	●				
67	146.368	1315 303 010		Gear 3rd Speed 28 T	1		AB	●				
67	146.365	1315 303 004	93190512	Gear 3rd Speed 26 T	1		CDE	●				
67	146.409	1316 303 006	93192494	Gear 3rd Speed 28 T	1		A	●				
67	146.391	1316 303 005	93191181	Gear 3rd Speed 26 T	1		CD	●				
68	105.112	1315 303 048		Countershaft 19-23 T	1	(9)	AB	●				
68	105.095	1315 303 049	42532787	Countershaft 17-20 T	1	(9)	DE	●				
68	105.109	1315 303 041		Countershaft 19-23 T	1	(10)	A	●				
68	105.124	1315 303 042	93193579	Countershaft 17-20 T	1	(10)	CD	●				
68	105.103	1316 303 034	93194241	Countershaft 19-23 T	1		A	●				
68	105.110	1316 303 053	42534435	Countershaft 19-23 T	1	(11)	A	●				
68	105.100	1316 303 033	93194079	Countershaft 17-20 T	1		CD	●				
68	105.096	1316 303 052	42532939	Countershaft 17-20 T	1	(12)	D	●				
69	130.307	0750 117 011	1905328	Bearing D.50,8x104,7x39,6	1			●				
69	130.308	0750 117 009	7982090	Bearing D.49,2x103,1x43,6	1			●				
70	137.135	0750 115 366	1905342	Needle Cage D.45x57x21	2			●				
70	137.149	0750 115 369	1905368	Needle Cage D.45x57x25	2			●				
71	147.142	1315 305 005		Reverse Gear 20 T	1		AB	●				
71	147.126	1315 305 002	93190486	Reverse Gear 22 T	1		CDE	●				
71	147.143	1316 305 002	93192488	Reverse Gear 20 T	1		A	●				
71	147.127	1316 305 001	93191173	Reverse Gear 22 T	1		CD	●				
72		1315 201 054		Reverse Shaft	1	Old (13)	AB	●				
72		1315 201 053		Reverse Shaft	1	Old (13)	CDE	●				
72		1316 201 030		Reverse Shaft	1	Old (13)	A	●				
72	190.301	1316 201 029	93191174	Reverse Shaft	1	Old (13)	CD	●				
73	190.302	1315 305 009	93191222	Reverse Shaft	1	New		●	●			
74		0631 329 293		Pin	1	New	AB	●				
74		0631 329 294	93191223	Pin	1	New	CDE	●				

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+ 1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+ 1316 303 065  
 (9) For model WITH integrated Oil Pump  
 (10) For model WITHOUT integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc fig. 74 (\*) New Models only. DO NO MIX Single Cone S. with Double Cone S.  
 (#) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 79  
 (@) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 80

Date

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Table

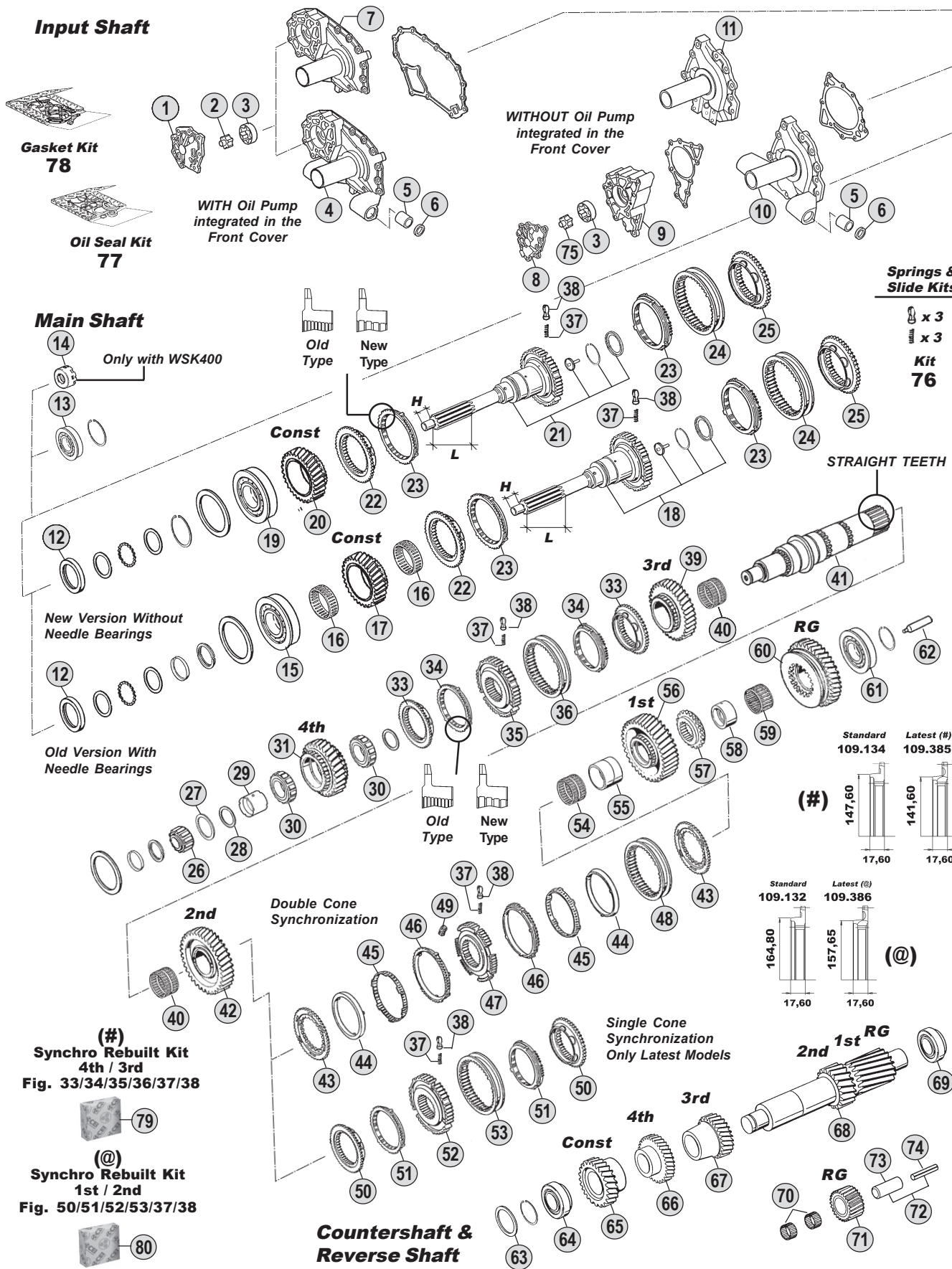
012 / A

ECO III

From 16S151  
To 16S221

Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	16S151 (1315)				16S221 (1316)					
		ZF no.	IVECO no.														
74		0631 329 295	93192490	Pin	1	New	A		●								
74		0631 329 296	93191391	Pin	1	New	CD		●								
75		1314 202 039	42531421	Rotor	1			●	●								
76	<b>198.843</b>	CEI 198843		Spring Slide Set	1			●	●								
77	<b>198.838</b>	1315 298 002	93161692	Oil Seal Kit	1			●	●								
78	<b>198.797</b>	1315 298 001	93161691	Gasket Kit	1			●	●								
79	<b>298.021</b>	1315 298 061		Synchro kit 4th/3rd Speed	1		(#)	●	●								
80	<b>298.020</b>	1315 298 060		Synchro kit 1st/2nd Speed	1		(@)	●	●								

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B. (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B. (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+ 1315 303 050 (8) Old Version. Repl. By 1316 304 103+ 1316 303 065  
 (9) For model **WITH** integrated Oil Pump (10) For model **WITHOUT** integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc. fig. 74 (\*) New Models only. **DO NO MIX** Single Cone S. with Double Cone S.  
 # **Latest** Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 @ **Latest** Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

Date

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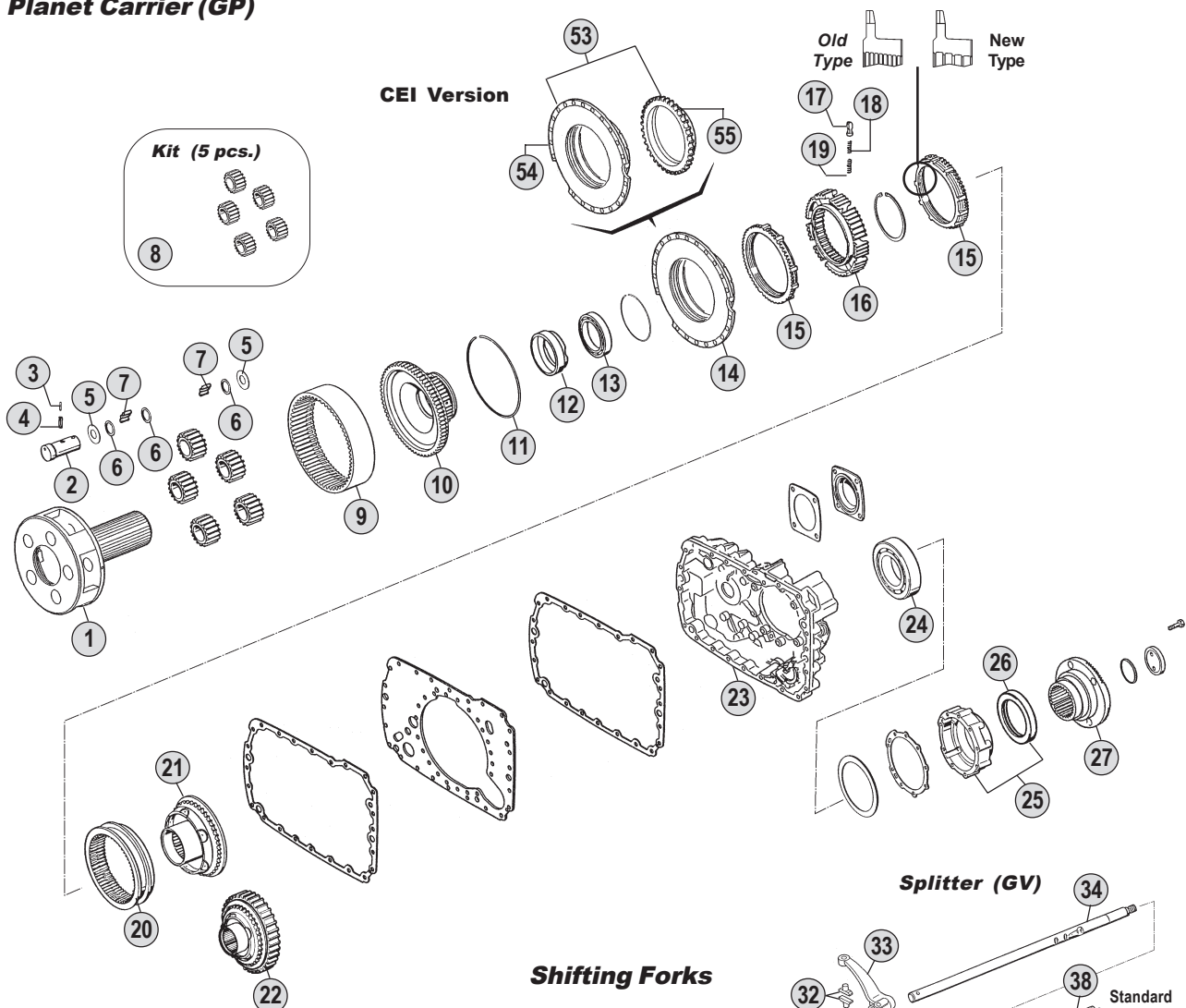
Table

012 / A

Suitable To : **ZF**

**16S151 - 16S221**

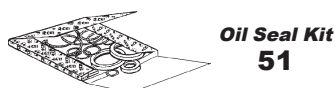
**Planet Carrier (GP)**



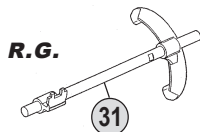
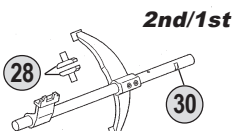
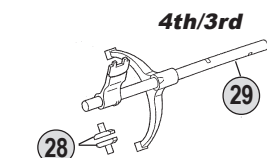
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 48</b>	<b>Kit 49</b>	<b>Kit 50</b>

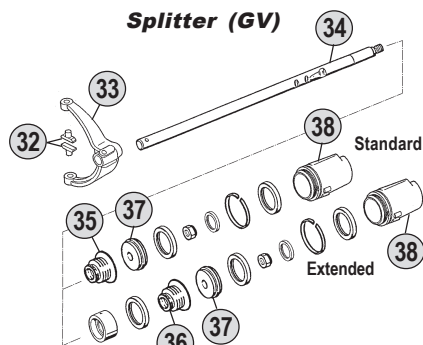
**Kits**



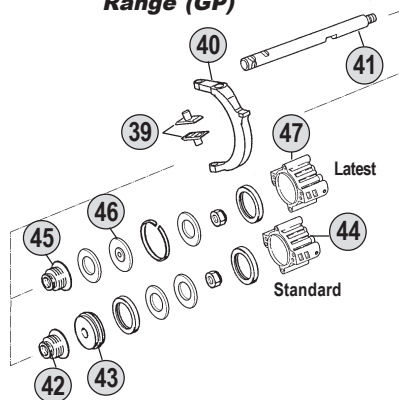
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	IVECO no.					16S151 (1315)	16S221 (1316)			
1	190.393	1296 232 002	93163912	Planetary Carrier	1			●				
1	190.392	1316 232 006	42537518	Planetary Carrier	1			●				
2	107.164	1296 332 005	93163915	Planet Shaft	5			●				
2	107.165	1312 332 026	8198829	Planet Shaft	5		BC	●				
3	160.195	0631 329 167	93191213	Lock Pin D.3x26	5			●	●			
4	160.194	0631 329 051	93191212	Lock Pin D.5x26	5			●	●			
5	169.759	0501 308 981	93156113	Thrust Washer	10			●	●			
6	169.744	0730 107 168	8198826	Spacer Ring	15			●	●			
7	171.046	0735 470 164	93163914	Roller D.10x15	140			●				
7	171.062	0750 119 116	93191132	Roller D.10x16,8	140				●			
8	198.800	1313 232 003	93163913	Planetary Gear Set (5 pcs)	1		ACD	●				
8	198.816	1315 232 001		Planetary Gear Set (5 pcs)	1		BE	●				
8	198.801	1312 232 014	8198825	Planetary Gear Set (5 pcs)	1				●			
9	123.208	1295 332 086	8198832	Crown Gear 86 T	1		ACD	●				
9	123.221	1315 332 003		Crown Gear 90 T	1		BE	●				
9	123.208	1295 332 086	8198832	Crown Gear 86 T	1				●			
10	150.133	1313 332 020	93163916	Flange Gear 86 T	1		ACD	●				
10	150.140	1315 332 002		Flange Gear 90 T	1		BE	●				
10	150.134	1297 332 120	8198830	Flange Gear 86 T	1				●			
11	111.198	0730 505 056	8198833	Locking Wire	1			●	●			
12		1297 332 002	42492428	Ring	1			●				
13	130.310	0750 116 165	42492449	Bearing D.80x110x16	1			●				
13	130.311	0635 338 035	8195468	Bearing D.100x125x13	1				●			
14	298.017	1315 233 006	93191215	Synchronizer Cone	1			●	●			
15	119.085	1296 333 022	7982226	Synchronizer Ring	2	Old Type		●	●			
15	119.172	1296 333 045	42532826	Synchronizer Ring	2	New Type		●	●			
16	157.182	1313 333 001	93163920	Synchronizer Hub	1			●				
16	157.183	1297 333 115	8198839	Synchronizer Hub	1				●			
17	160.116	1240 304 278	2960200	Pressure Piece	9			●	●			
18	156.036	0732 040 386	9931785	Inner Spring De.3x34	9			●	●			
19	156.037	0732 040 385	8832940	Outer Spring De.6x34	9			●	●			
20	154.098	1296 333 023	7982227	Sliding Sleeve	1			●	●			
21	198.374	1313 233 001	93156049	Synchronizer Cone (38 Spl.)	1			●				
21	198.790	1297 233 056	8198840	Synchronizer Cone (41 Spl.)	1				●			
22	196.353	1315 233 023	93193590	Synchronizer Cone 59 T (38 Spl)	1	With Retarder		●				
22	196.352	1316 233 010	93193369	Synchronizer Cone 59 T (41 Spl)	1	With Retarder			●			
23		1315 301 117	93192800	Housing	1			●	●			
23	175.242	1315 301 223	42536600	Housing	1			●	●			
24	130.245	0750 116 002	7982088	Bearing D.90x160x30	1			●	●			
25		1315 231 004		Cover	1			●	●			
26		0750 111 341	93194330	Oil Seal 105x130x12	1			●	●			
27		1315 338 002	42534812	Output Flange	1	D.180-4 H.		●				
27		1313 338 002	93163919	Output Flange	1	D.180-4 H.		●				
27		1313 338 011		Output Flange	1	D.204-4 H.		●				
27		1315 238 001		Output Flange	1	D.222-4 H.		●				

Notes

Date

03 / 2006

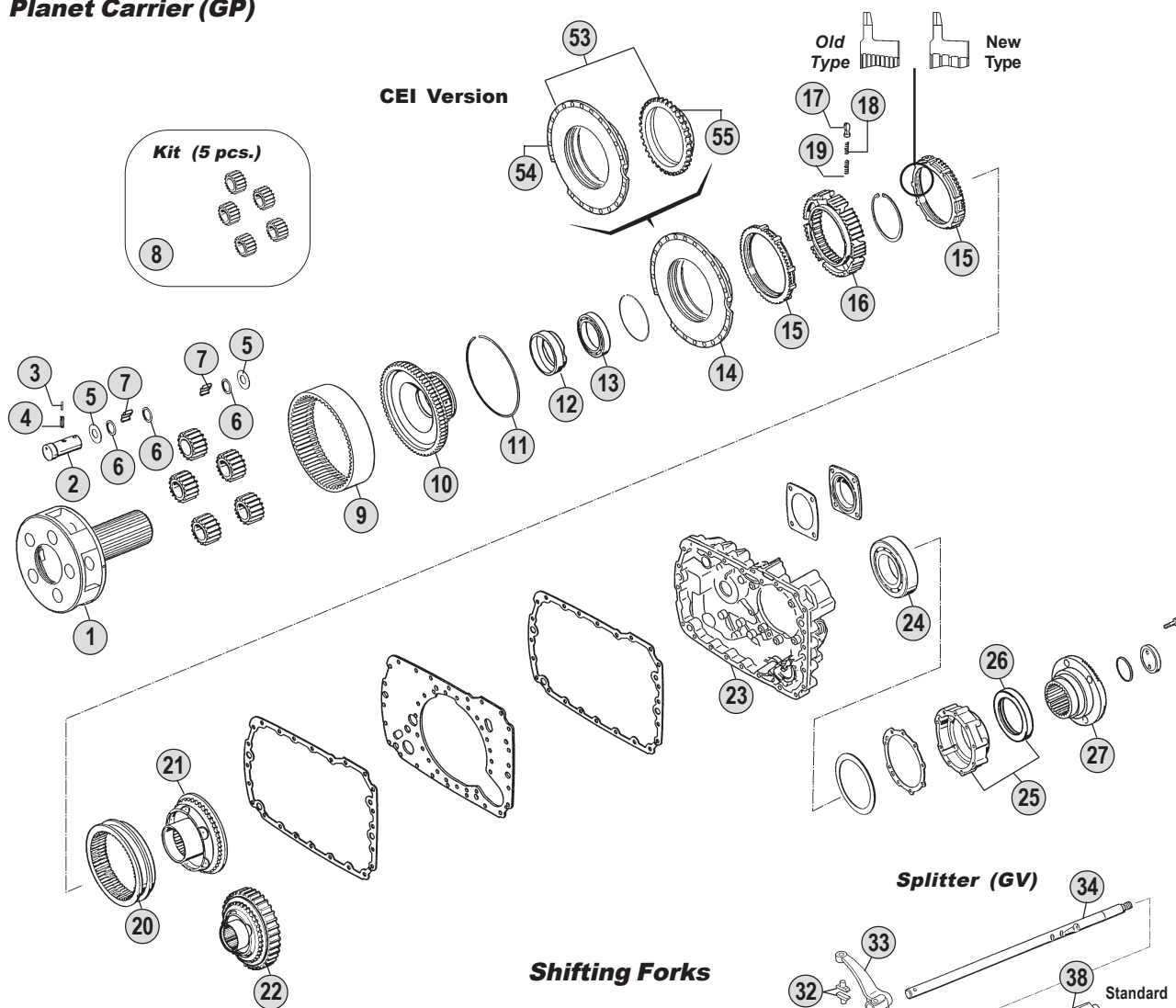
Table

012 / B

Suitable To : **ZF**

**16S151 - 16S221**

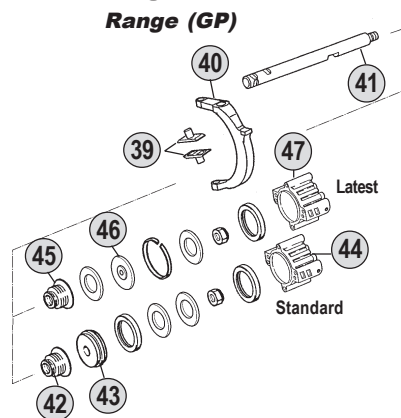
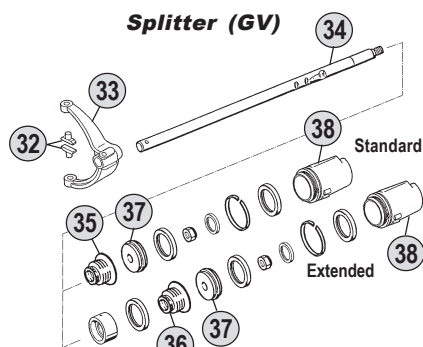
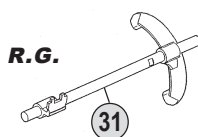
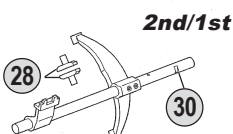
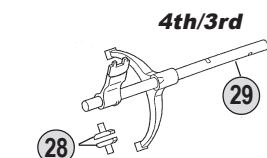
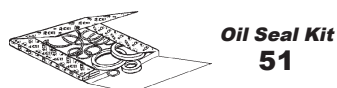
**Planet Carrier (GP)**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 48</b>	<b>Kit 49</b>	<b>Kit 50</b>

**Kits**



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**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	IVECO no.									
27		1297 333 110	93156114	Output Flange	1	D.180-4H.		●				
27		1316 338 002	93194088	Output Flange	1	D.180-4H.		●				
27		1312 333 018		Output Flange	1	D.200-4H.		●				
27		1316 338 003		Output Flange	1	D.200-4H.		●				
28	141.163	1297 306 120	8198817	Slide	2	Old Type		●	●			
28	141.168	1316 306 015	42537353	Slide	2	New Type		●	●			
29		1315 206 013	93190522	Fork	1	Old Type		●				
29		1315 206 055	42537658	Fork	1	New Type		●				
29		1315 206 024	93192530	Fork	1	Old Type		●				
29		1315 206 056		Fork	1	New Type		●				
29		1316 206 018	93191202	Fork	1	Old Type			●			
29		1316 206 037	42537352	Fork	1	New Type			●			
29		1316 206 017		Fork	1	Old Type			●			
29		1316 206 038		Fork	1	New Type			●			
30		1315 206 046	42532016	Fork	1	Old Type		●				
30		1315 206 052	42537660	Fork	1	New Type		●				
30		1315 206 047	42532067	Fork	1	Old Type		●				
30		1315 206 053		Fork	1	New Type		●				
30		1316 206 025	42531414	Fork	1	Old Type			●			
30		1316 206 033	42537351	Fork	1	New Type			●			
30		1316 206 026		Fork	1	Old Type			●			
30		1316 206 034		Fork	1	New Type			●			
30		1316 206 027		Fork	1	Old Type			●			
30		1316 206 035		Fork	1	New Type			●			
31		1315 206 003	93192531	Fork	1			●				
31		1315 206 023	93190523	Fork	1			●				
31		1316 206 013	93191203	Fork	1				●			
31		1316 206 014		Fork	1				●			
32	141.163	1297 306 120	8198817	Slide	2	Old Type		●	●			
32	141.168	1316 306 015	42537353	Slide	2	New Type		●	●			
33		1315 312 017	93190546	Fork	1	Old Type		●	●			
33		1315 312 074		Fork	1	New Type		●	●			
34		1315 312 049	42532017	Rod	1	Standard		●				
34		1315 312 022	93190545	Rod	1	Extended		●				
34		1316 312 016	42534711	Rod	1	Standard			●			
34		1316 312 008	93191206	Rod	1	Extended			●			
35		0750 112 131	93191207	Cap Collar D.25x40x15	1	Standard		●	●			
36	139.331	0750 112 034	8190753	Cap Collar D.25x38x14,2	1	Extended		●	●			
37		1315 312 020	93193406	Piston	1			●	●			
38		1315 312 048	42532018	Cylinder	1			●				
38		1316 312 015	42531413	Cylinder	1				●			
39	141.085	1296 334 004	7982228	Bronze Slide	2			●	●			
40		1315 334 039	42531416	Fork	1			●	●			
41		1315 334 058	42536235	Rod	1			●				
41		1316 334 010	42535861	Rod	1				●			

Notes

Date

03 / 2006

Table

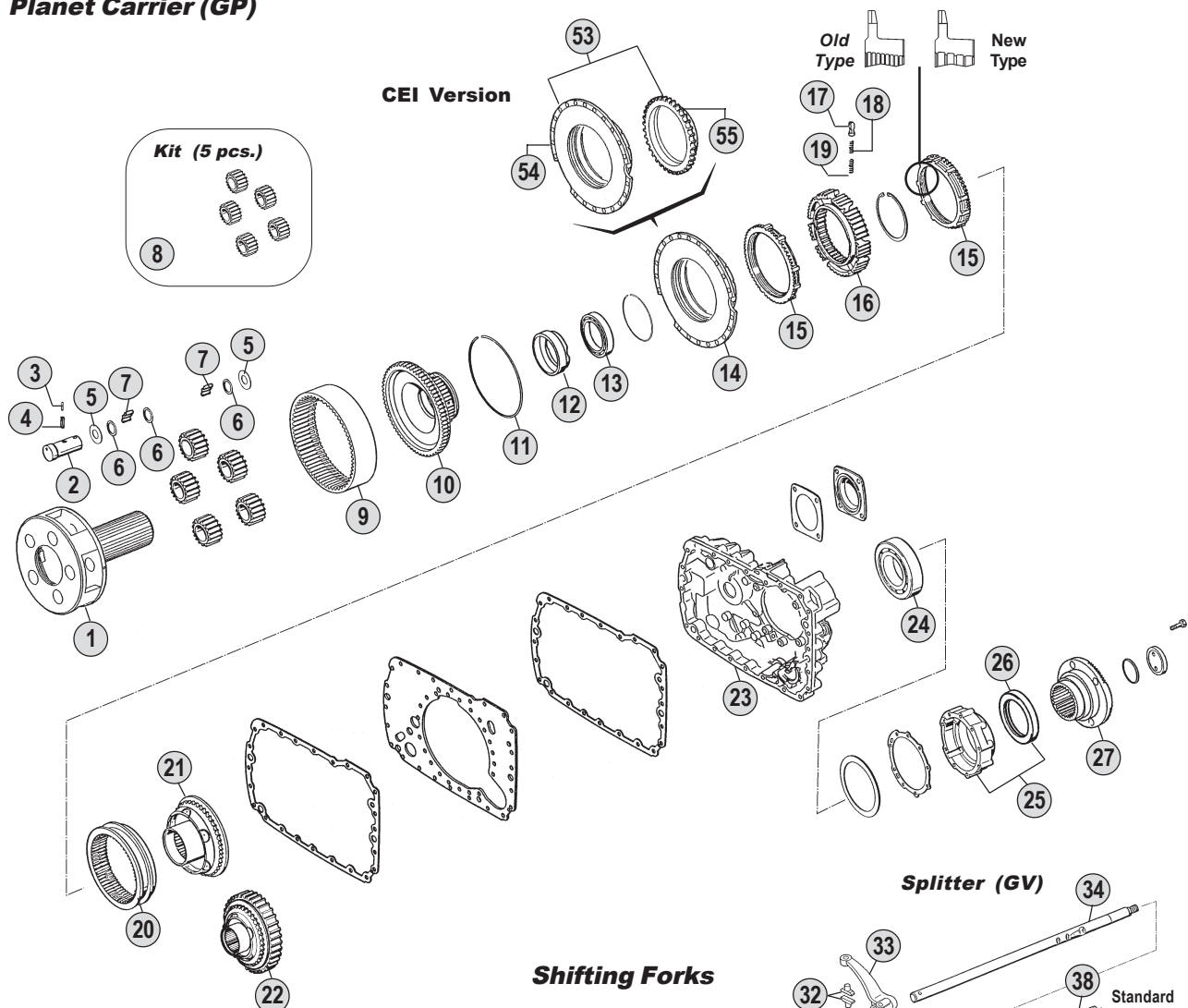
012 / B

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Suitable To : **ZF**

**16S151 - 16S221**

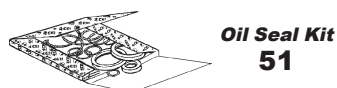
**Planet Carrier (GP)**



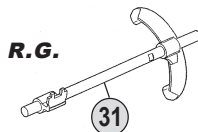
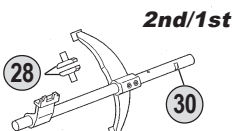
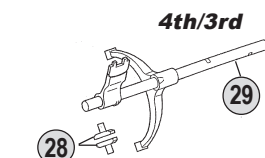
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 48</b>	<b>Kit 49</b>	<b>Kit 50</b>

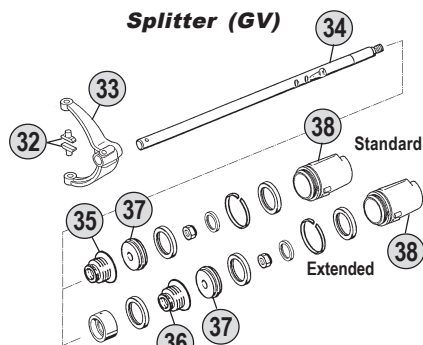
**Kits**



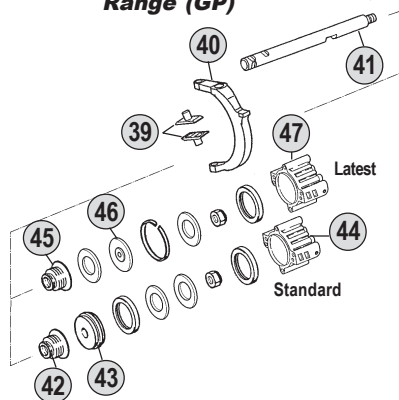
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



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suitable to :

**Z.F.****EcoSplit III****From 16S151 to 16S251****Planetary Gear with HELICAL TEETH****Application**

	<b>16S151</b>	<b>16S181</b>	<b>16S221</b>	<b>16S251</b>
	(1315)	(1316)	(1316)	(1316)
<b>MERCEDES</b>				
<b>MAN</b>				
<b>IVECO</b>				
<b>RVI</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**ECO III**  
From 16S151  
To 16S221

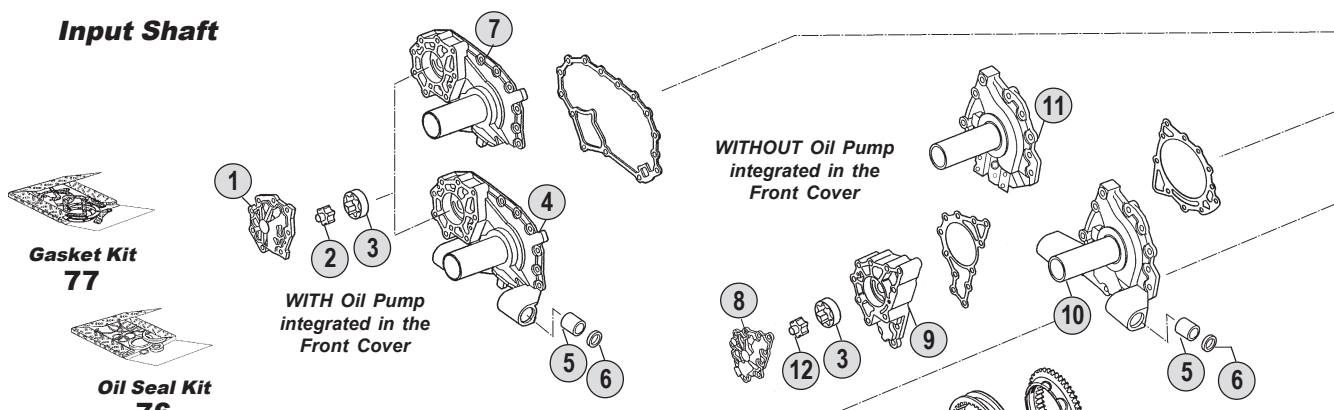
**Ratios**

	<b>R.13,74-0,84</b>	<b>R.13,80-0,84</b>	<b>R.16,41-1,00</b>		
	<b>A</b>	<b>B</b>	<b>C</b>		
<b>16S151</b>					
<b>16S181</b>					
<b>16S221</b>					
<b>16S251</b>					

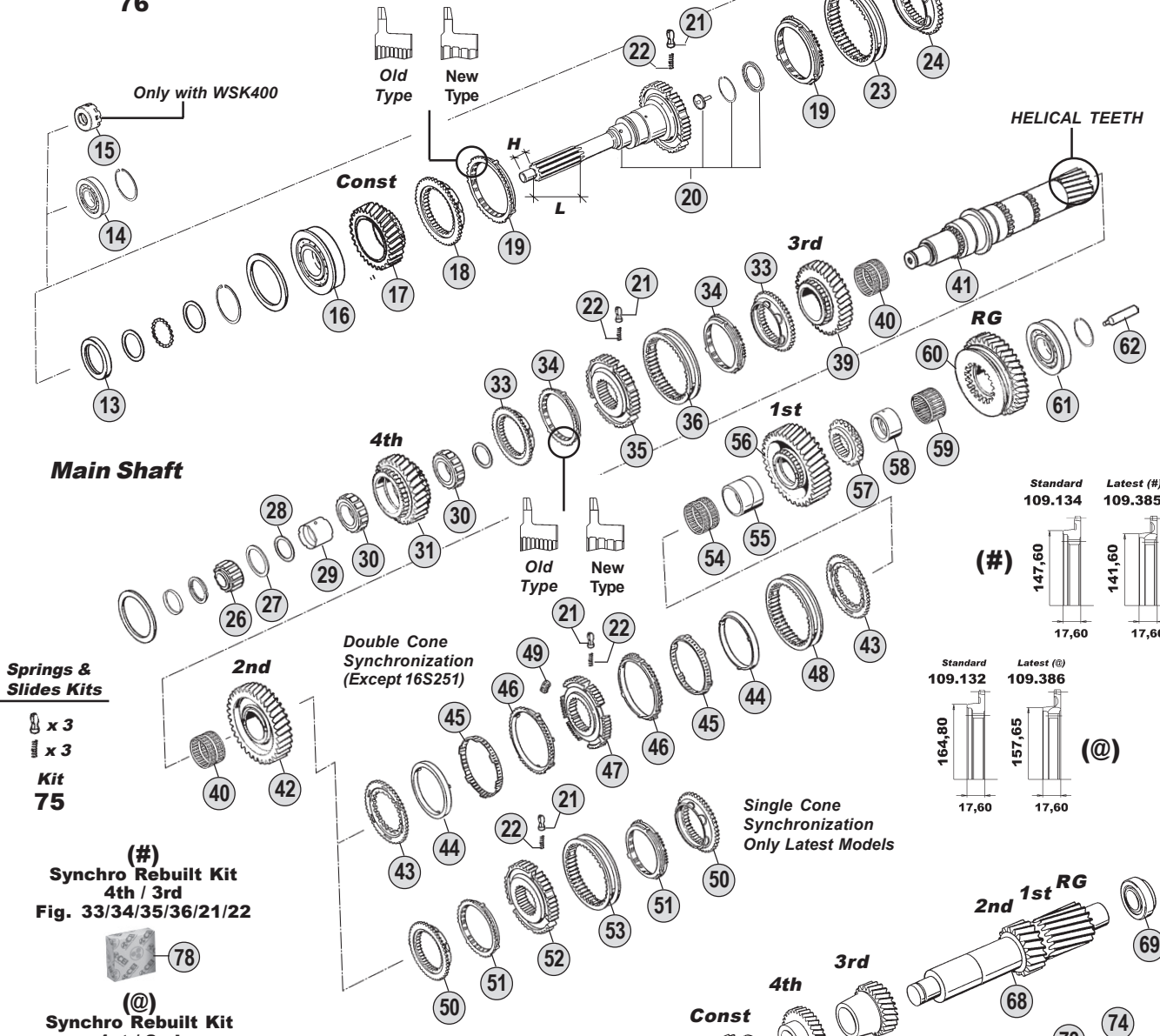
Suitable To : **ZF**

**16S151 - 16S181 - 16S221**

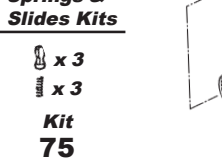
**Input Shaft**



**Main Shaft**



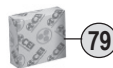
**Springs & Slides Kits**



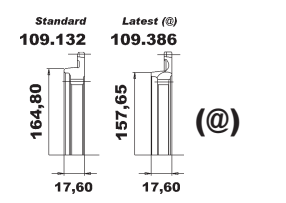
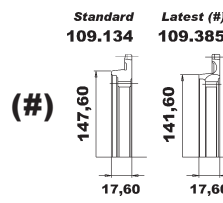
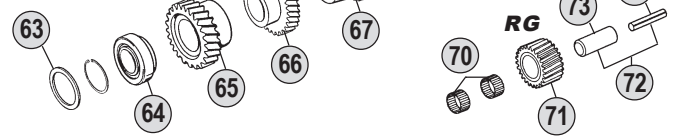
(#)  
**Synchro Rebuilt Kit**  
4th / 3rd  
Fig. 33/34/35/36/21/22



(@)  
**Synchro Rebuilt Kit**  
1st / 2nd  
Fig. 50/51/52/53/21/22



**Countershaft & Reverse Shaft**



Ratios					
16S151	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S181	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S221	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	IVECO no.									
1		1315 302 013	93190510	Cover	1			●	●			
2		1315 202 014	93191178	Rotor	1			●	●			
3		1315 303 027	93191179	Oil Pump Housing	1			●	●	●		
4		1315 302 057	93192194	Front Cover	1			●	●			
5		0730 260 398	93190506	Bush	4			●	●	●		
6		0501 312 738	93190507	Oil Seal 30x37x4	4			●	●	●		
7		1315 302 045		Front Cover	1			●	●			
7		1315 302 047		Front Cover	1			●	●			
8		1315 302 120	42530599	Cover	1			●	●	●		
9		1315 302 121	42531750	Housing	1			●	●	●		
10		1315 202 055	42536234	Front Cover	1			●	●	●		
10		1315 202 058		Front Cover	1			●	●			
10		1315 202 061		Front Cover	1			●	●			
10		1315 202 065		Front Cover	1			●	●			
10		1315 202 060	42536388	Front Cover	1			●	●			
11		1315 302 075		Front Cover	1			●	●	●		
11		1315 302 136		Front Cover	1			●	●	●		
12		1314 202 039	42531421	Rotor	1			●	●	●		
13		0734 310 386	42533218	Oil Seal 55x75x8	1			●	●	●		
13		0734 310 104	42484086	Oil Seal 52x68x8	13	(1)		●	●	●		
13		0734 319 514		Oil Seal 52x72x8	1	(2)		●	●	●		
14		0635 450 098	1905359	Bearing 52x90x33	1	(2)		●	●	●		
15		4130 309 063	42484059	Disk	1	(1)		●	●	●		
16	<b>130.518</b>	0750 117 732	2991733	Bearing D.85x150x30,50	1			●	●	●		
17	<b>145.513</b>	1315 302 173		Constant Gear 34 T	1		A	●				
17	<b>145.556</b>	1315 302 158	42534905	Constant Gear 35 T	1		B	●				
17	<b>145.553</b>	1315 302 157	42534629	Constant Gear 30 T	1		C	●				
17	<b>145.561</b>	1316 302 057	42535852	Constant gear 35 T	1		B		●			
17	<b>145.483</b>	1316 302 066	42534644	Constant Gear 30 T	1		C		●			
17	<b>145.487</b>	1316 302 065	42535690	Constant Gear 34 T	1		A			●		
17	<b>145.554</b>	1316 302 067	42534756	Constant Gear 35 T	1		B			●		
17	<b>145.483</b>	1316 302 066	42534644	Constant Gear 30 T	1		C			●		
18	<b>109.134</b>	1312 304 027	93156419	Synchronizer Cone	1			●	●	●		
19	<b>119.119</b>	1297 304 402	93159684	Synchronizer Ring	2	Old Type		●	●	●		
19	<b>119.167</b>	1297 304 484	42532487	Synchronizer Ring	2	New Type		●	●	●		
20	190.304	1315 202 037		Input Shaft	1	L=125 H=31,5		●				
20	190.315	1315 202 040	42534440	Input Shaft	1	L=102 H=32		●				
20		1315 202 048		Input Shaft	1	WSK400		●				
20	190.317	1315 221 002		Input Shaft	1	NMV221 (clutch pto)		●				
20	190.303	1316 202 025		Input Shaft	1	L=134 H=32			●	●		
20	190.300	1316 202 026	42534643	Input Shaft	1				●	●		
20	190.310	1316 202 033	42536387	Input Shaft	1	L=63 H=46,5 WSK400				●		
20		1316 202 038		Input Shaft	1				●	●		
20		1316 221 017		Input Shaft	1	NMV221 (clutch pto)			●	●		
21	<b>160.189</b>	1297 304 436	93156036	Pressure Piece	3			●	●	●		

ECO III

From 16S151  
To 16S221

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. **DO NO MIX** Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (@) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

03 / 2006

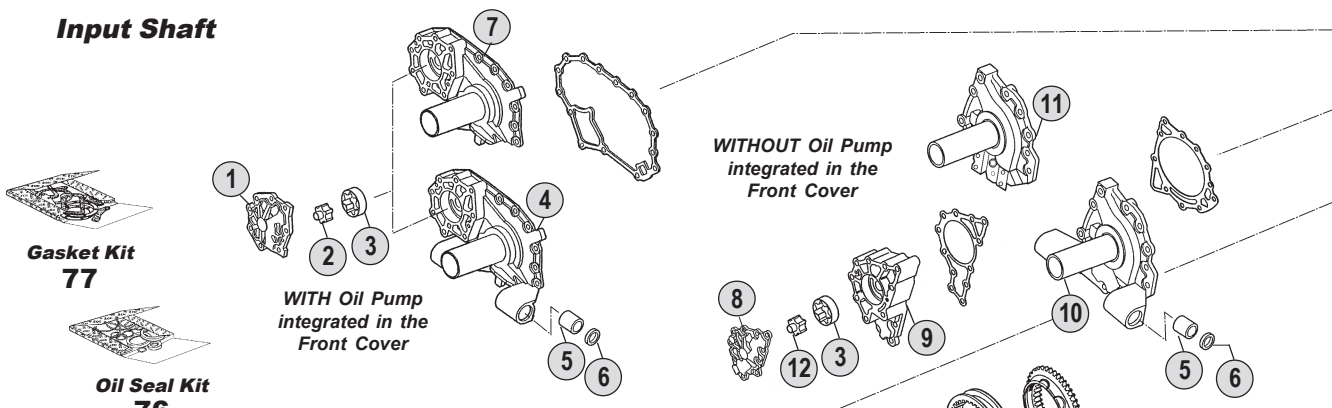
## Table

013 / A

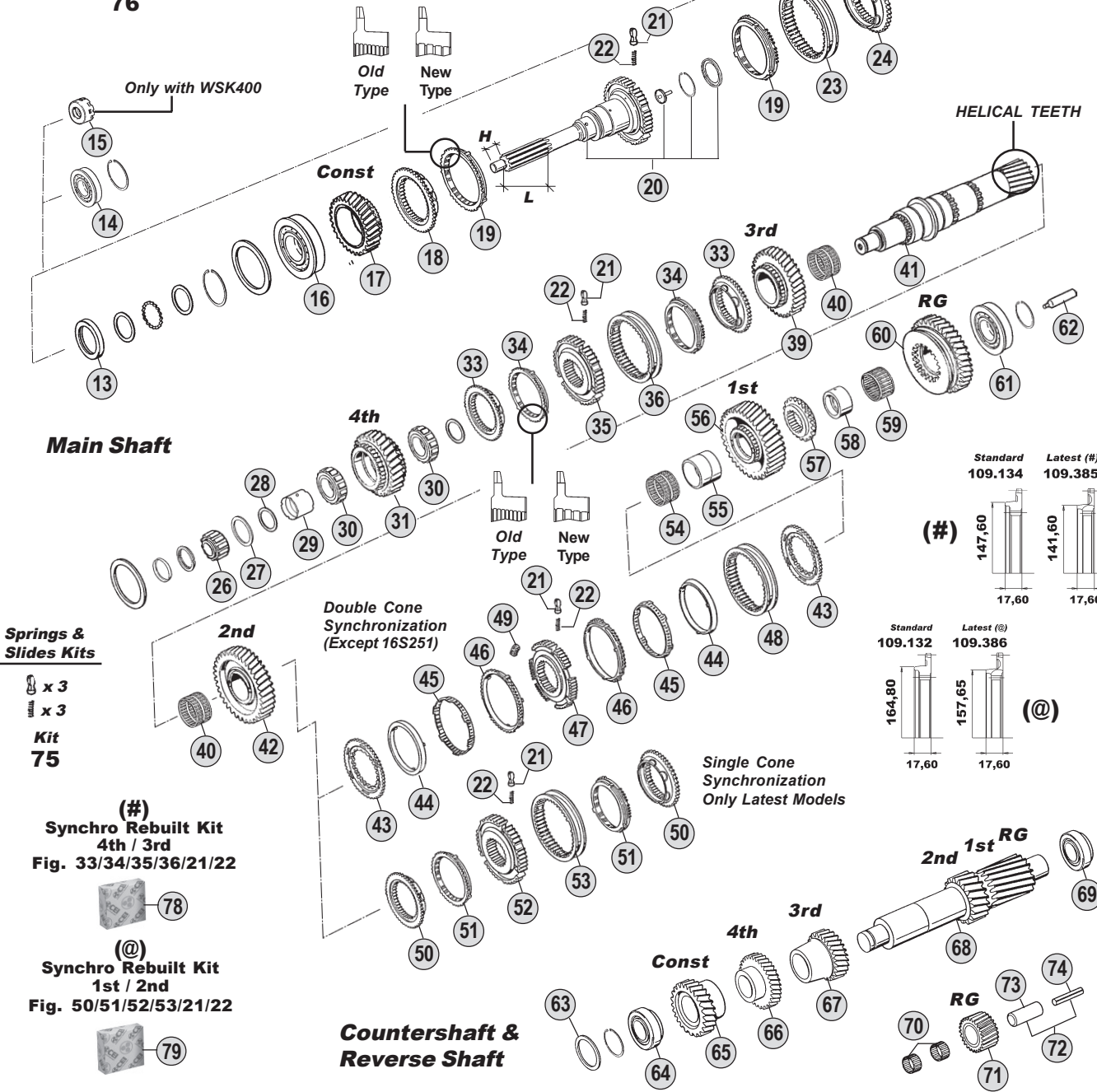
Suitable To : **ZF**

**16S151 - 16S181 - 16S221**

**Input Shaft**



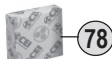
**Main Shaft**



**Springs & Slides Kits**

x 3  
x 3  
**Kit 75**

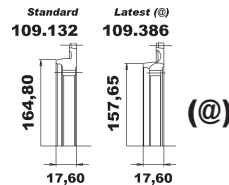
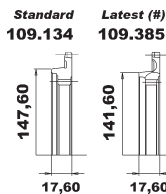
(#)  
**Synchro Rebuilt Kit**  
4th / 3rd  
Fig. 33/34/35/36/21/22



(@)  
**Synchro Rebuilt Kit**  
1st / 2nd  
Fig. 50/51/52/53/21/22



**Countershaft & Reverse Shaft**



**Ratios**

16S151	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S181	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S221	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	IVECO no.					16S151 (1315)	16S181 (1316)	16S221 (1316)			
22	156.140	0732 040 409	2967403	Spring D.6,50x23,50	3			●	●	●			
23	154.135	1310 304 202	42534465	Sliding Sleeve	1			●	●	●			
24	109.133	1312 304 056	93156418	Synchronizer Cone	1			●	●	●			
26	137.150	0750 117 232	93156500	Roller Cage D.42x40,30	1			●	●	●			
27		1315 304 048		Ring	1	S.8,00 mm		●	●	●			
27		1315 304 043	93191196	Ring	27	S.7,50 mm		●	●	●			
28	169.776	0750 101 158	42535316	Thrust Washer 81,5x5	1			●	●	●			
29	117.321	0750 119 125	42536245	Bush D.67x77x54,1	1			●					
29	117.320	0750 119 124	42535317	Bush D.67x77x66,10	1				●	●			
30	137.164	0750 115 534	2992189	Roller Cage D.77x101x29	2			●					
30	137.136	0750 115 531	2991925	Roller Cage D.77x101x29	2				●	●			
31	146.431	1315 304 017		Gear 4th Speed 30 T	1		A	●					
31	146.320	1315 304 089	42532887	Gear 4th Speed 32 T	1		BC	●					
31	146.410	1316 304 007	93192501	Gear 4th Speed 30 T	1		A			●			
31	146.401	1316 304 103	42532747	Gear 4th Speed 32 T	1		BC		●	●			
33	109.134	1312 304 027	93156419	Synchronizer Cone	2			●	●	●			
33	109.385	1316 304 159		Synchronizer Cone	2		(#)	●	●	●			
34	119.119	1297 304 402	93159684	Synchronizer Ring	2	Old Type		●	●	●			
34	119.167	1297 304 484	42532487	Synchronizer Ring	2	New Type		●	●	●			
34	119.217	1316 304 149		Synchronizer Ring	2		(#)	●	●	●			
35	157.180	1312 304 052	93156491	Synchronizer Hub	1			●	●	●			
35	157.227	1316 304 162		Synchronizer Hub	1		(#)	●	●	●			
36	154.135	1310 304 202	42534465	Sliding Sleeve	1			●	●	●			
36	154.357	1315 304 135		Sliding Sleeve	1		(#)	●	●	●			
39	145.514	1315 304 028		Gear 3rd Speed 32 T	1		A	●					
39	145.456	1315 304 027	93190519	Gear 3rd Speed 34 T	1		BC	●					
39	145.484	1316 304 094	42535313	Gear 3rd Speed 34 T	1		BC		●				
39	145.488	1316 304 009	93192500	Gear 3rd Speed 32 T	1		A			●			
39	145.473	1316 304 008	93191188	Gear 3rd Speed 34 T	1		BC			●			
40	137.137	0735 321 087	1905329	Needle Cage D.92x100x53	2			●					
40	137.138	0750 115 303	93156451	Needle Cage D.92x100x63	2				●	●			
41	103.138	1315 304 131	42534775	Main Shaft	1			●					
41	103.130	1316 304 132	42535311	Main Shaft	1				●	●			
42	145.455	1315 304 026		Gear 2nd Speed 37 T	1		A	●					
42	145.454	1315 304 025	93190515	Gear 2nd Speed 38 T	1		BC	●					
42	145.515	1316 304 003	93192497	Gear 2nd Speed 37 T	1		A			●			
42	145.474	1316 304 002	93191184	Gear 2nd Speed 38 T	1		BC		●	●			
43	109.176	1312 304 106	93156573	Synchronizer Cone	2			●	●	●			
44	119.152	1268 304 424	93156454	Intermediate Ring	2			●	●	●			
45	119.153	1268 304 494	42534458	Intermediate Cone	2			●	●	●			
46	119.144	1268 304 525	93156456	Synchronizer Ring	2			●	●	●			
47	157.181	1312 304 158	93163871	Synchronizer Hub	1			●	●	●			
48	154.190	1310 304 175	42532878	Sliding Sleeve	1			●	●	●			
49	156.176	1312 304 159	42531384	Pad	3			●	●	●			
50	109.132	1313 304 009	93163896	Synchronizer Cone	2	(*)		●	●	●			

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. **DO NO MIX** Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (Ⓜ) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

03 / 2006

## Table

013 / A

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HIGH FIDELITY SPARE PARTS

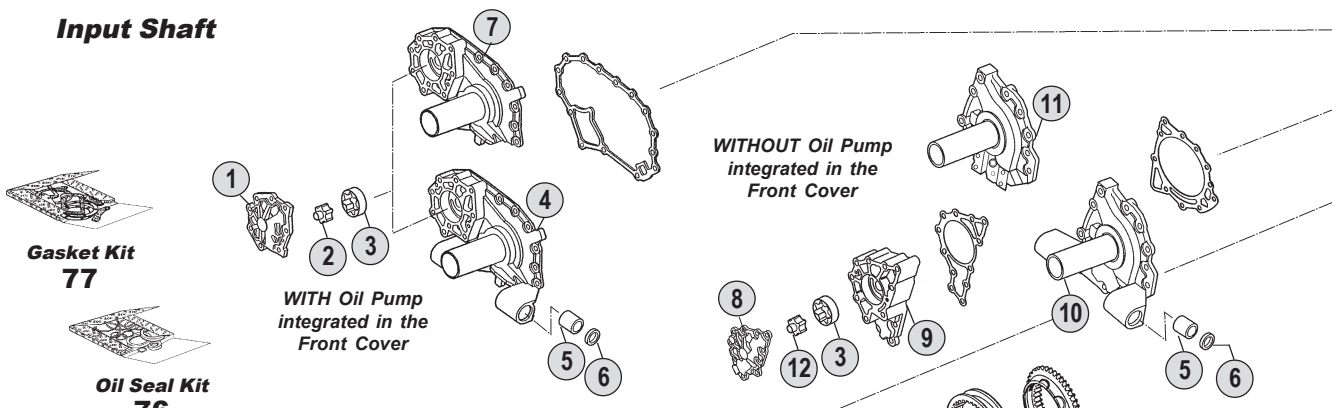
ECO III

From 16S151  
To 16S221

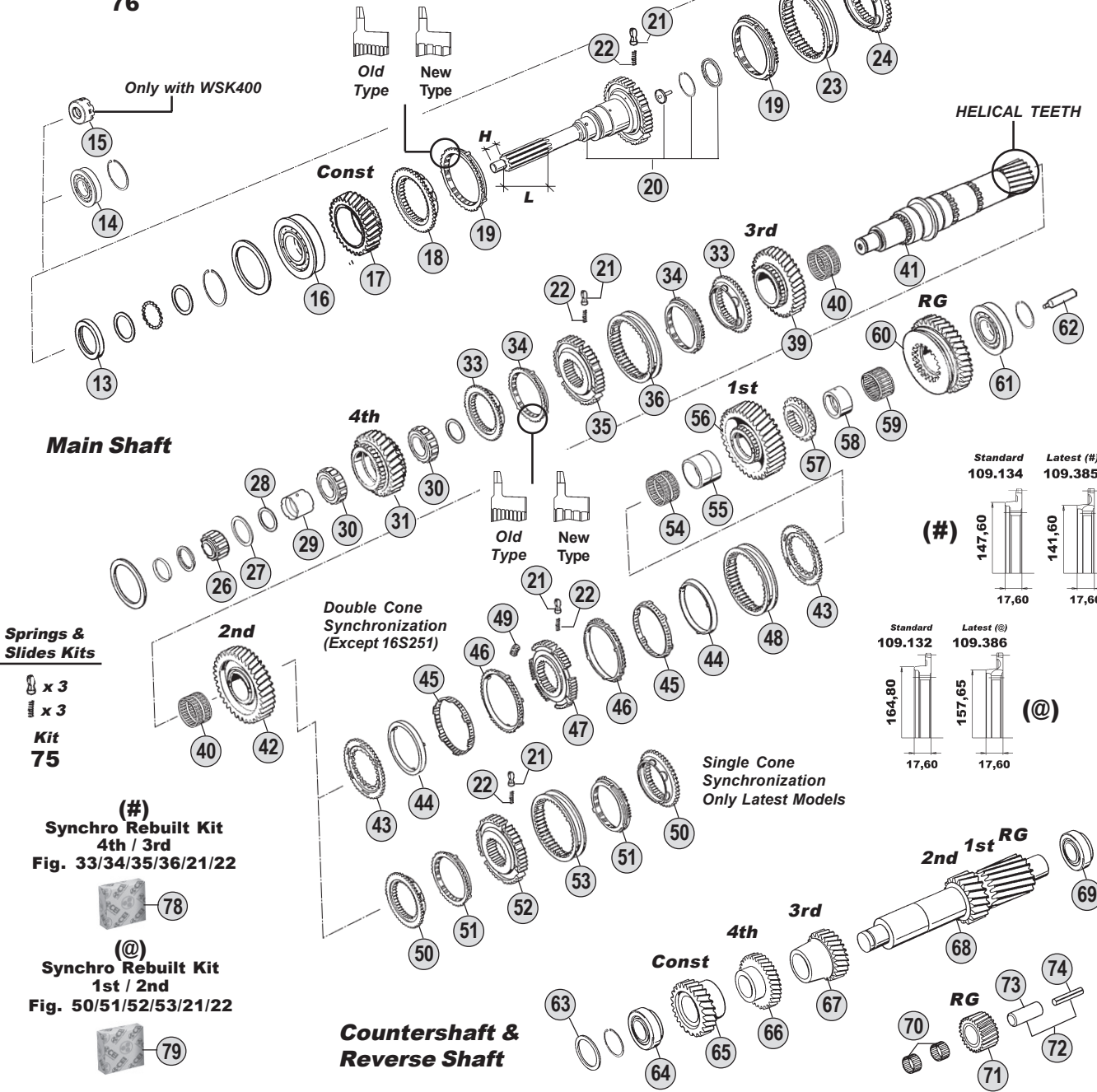
Suitable To : **ZF**

**16S151 - 16S181 - 16S221**

**Input Shaft**



**Main Shaft**



**Springs & Slides Kits**

x 3  
x 3  
**Kit 75**

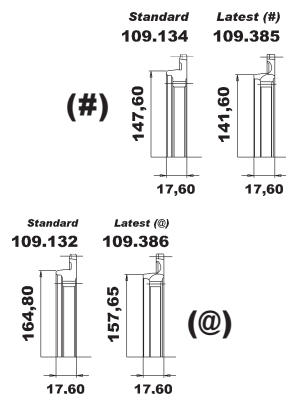
(#)  
**Synchro Rebuilt Kit 4th / 3rd**  
Fig. 33/34/35/36/21/22



(@)  
**Synchro Rebuilt Kit 1st / 2nd**  
Fig. 50/51/52/53/21/22



**Countershaft & Reverse Shaft**



Ratios					
16S151	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S181	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S221	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --



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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.					IVECO no.	16S151 (1315)	16S181 (1316)	16S221 (1316)			
50	109.386	1316 304 156		Synchronizer Cone	2		(@)	●	●	●			
51	119.122	1297 304 401	93160314	Synchronizer Ring	2	(*) Old Type		●	●	●			
51	119.166	1297 304 485	42534634	Synchronizer Ring	2	(*) New Type		●	●	●			
51	119.218	1316 304 150		Synchronizer Ring	2		(@)	●	●	●			
52	157.189	1313 304 008	93160380	Synchronizer Hub	1	(*)		●	●	●			
52	157.228	1316 304 163		Synchronizer Hub	1		(@)	●	●	●			
53	154.202	1316 304 078	42534633	Sliding Sleeve	1	(*)		●	●	●			
53	154.358	1315 304 136		Sliding Sleeve	1		(@)	●	●	●			
54	137.160	0750 115 325	1905330	Needle Cage D.96x104x55	1			●					
54	137.151	0750 115 327	93156462	Needle Cage D.96x104x72	1				●	●			
55	117.294	1313 304 038	93163897	Bush	1			●					
55	117.310	1312 304 084	93156461	Bush D.85x96x72	1				●	●			
56	145.453	1315 304 014		Gear 1st Speed 44 T	1		A	●					
56	145.452	1315 304 004	93190516	Gear 1st Speed 47 T	1		BC	●					
56	145.522	1316 304 013	93192498	Gear 1st Speed 44 T	1		A			●			
56	145.475	1316 304 010	93191185	Gear 1st Speed 47 T	1		BC		●	●			
57	109.144	1315 304 018	93190517	Engaging Ring	1			●					
57	109.163	1312 304 124	93191186	Engaging Ring	57				●	●			
58	117.293	1315 304 132	42534635	Bush	1			●					
58	117.311	1316 304 133	42534705	Bush D.80x90x50	1				●	●			
59	137.162	0750 115 324	1905331	Roller Cage D.90x98x41	1			●					
59	137.140	0750 115 326	93156466	Roller Cage D.90x98x50	1				●	●			
60	147.124	1315 304 013		Reverse Gear 42 T	1		A	●					
60	147.123	1315 304 006	93190518	Reverse Gear 44 T	1		BC	●					
60	147.144	1316 304 015	93192499	Reverse Gear 42 T	1		A			●			
60	147.128	1316 304 012	93191187	Reverse Gear 44 T	1		BC		●	●			
61	130.309	0750 117 677	1905486	Bearing D.80x130x36	1			●					
61	130.304	0750 117 678	1905102	Bearing D.80x140x36,50	1				●	●			
62	188.209	1312 304 150	93193506	Oil Tube	1			●	●	●			
63		0730 106 917	93156423	Washer	1	S.3,00 mm		●	●	●			
63		0730 101 471	93156443	Washer	1	S.2,00 mm		●	●	●			
64	130.308	0750 117 009	7982090	Bearing D.49,2x103,1x43,6	1			●	●	●			
65	146.427	1315 303 052		Constant Gear 37 T	1		A	●					
65	146.473	1315 303 051	42534908	Constant Gear 32 T	1		B	●					
65	146.367	1315 303 008	93190513	Constant Gear 39 T	1		C	●					
65	146.485	1316 303 056	42535853	Constant Gear 32 T	1		B		●				
65	146.398	1316 303 055	42535328	Constant Gear 39 T	1		C		●				
65	146.407	1316 303 031	93194242	Constant Gear 37 T	1		A			●			
65	146.469	1316 303 064	42534749	Constant Gear 32 T	1		B			●			
65	146.486	1316 303 030	93194080	Constant Gear 39 T	1		C			●			
66	146.429	1315 303 046		Gear 4th Speed 39 T	1		A	●					
66	146.474	1315 303 050	42532886	Gear 4th Speed 35 T	1		BC	●					
66	146.399	1316 303 063	42535329	Gear 4th Speed 35 T	1		BC		●				
66	146.408	1316 303 004	93192496	Gear 4th Speed 39 T	1		A			●			
66	146.426	1316 303 065	42532748	Gear 4th Speed 35 T	1		BC			●			

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. **DO NO MIX** Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (@) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

03 / 2006

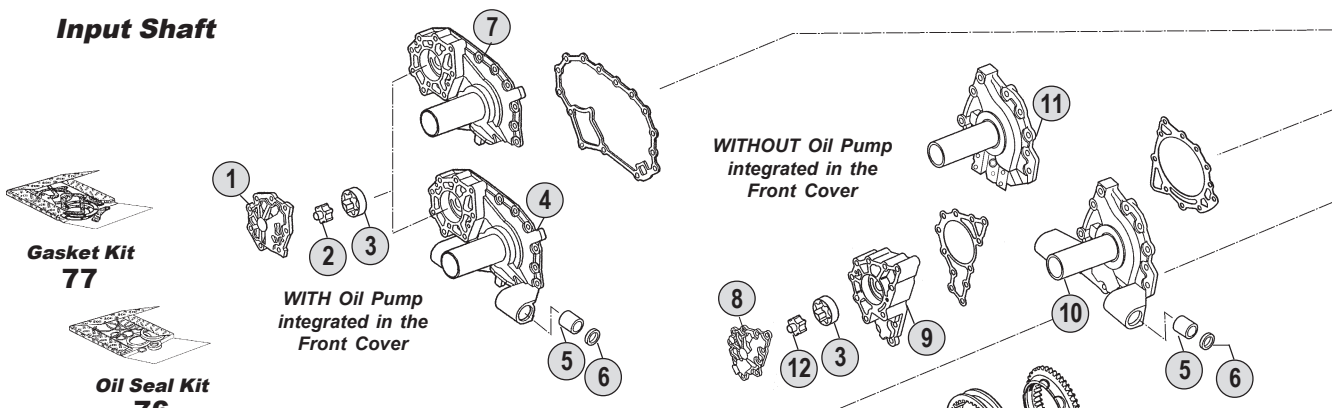
## Table

013 / A

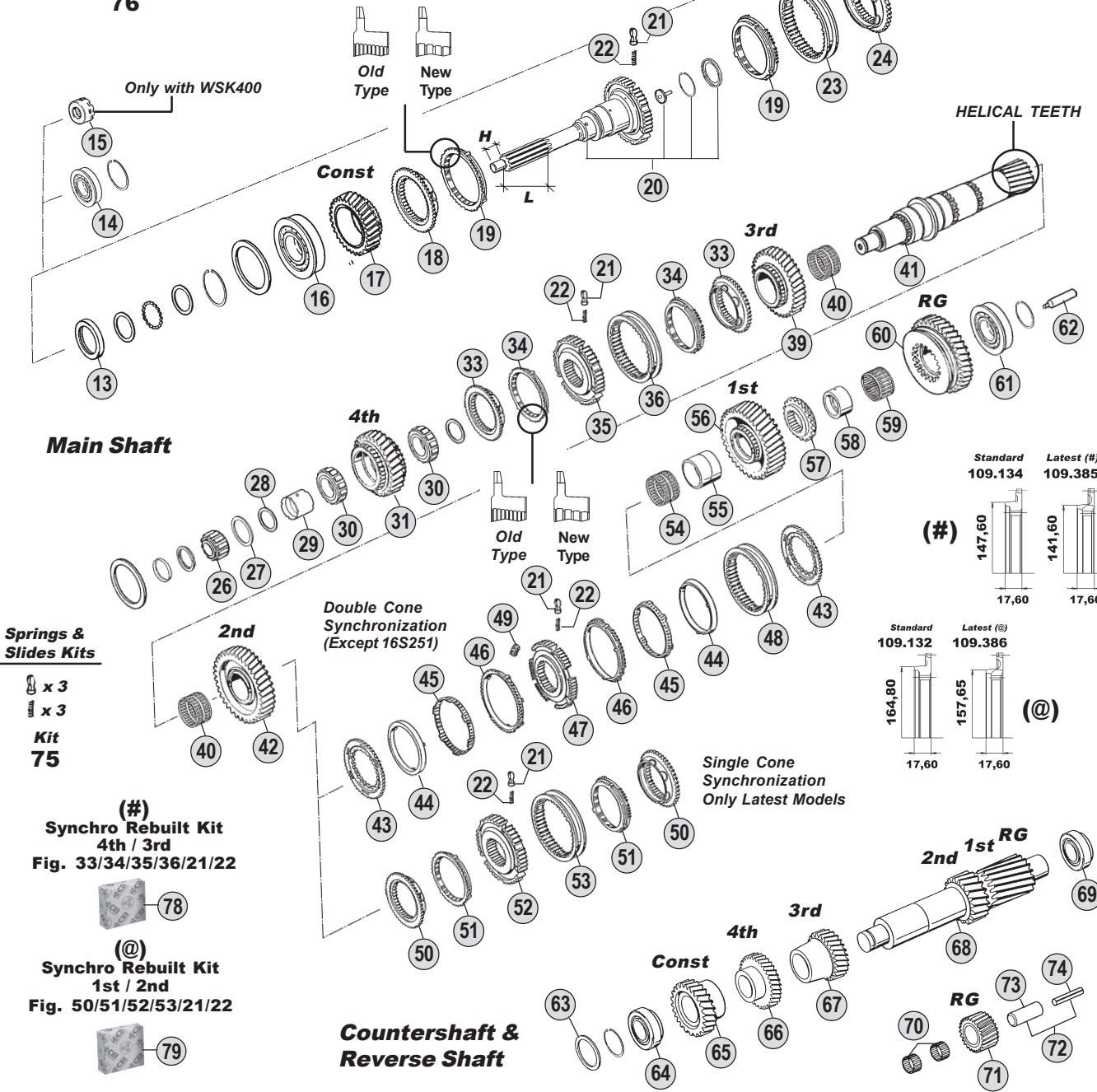
Suitable To : **ZF**

**16S151 - 16S181 - 16S221**

**Input Shaft**



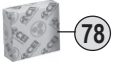
**Main Shaft**



**Springs & Slides Kits**

x 3  
x 3  
**Kit 75**

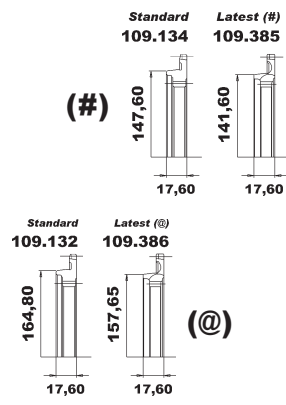
(#)  
**Synchro Rebuilt Kit 4th / 3rd**  
Fig. 33/34/35/36/21/22



(@)  
**Synchro Rebuilt Kit 1st / 2nd**  
Fig. 50/51/52/53/21/22



**Countershaft & Reverse Shaft**



**Ratios**

16S151	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S181	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S221	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	IVECO no.					16S151 (1315)	16S181 (1316)	16S221 (1316)		
67	146.368	1315 303 010		Gear 3rd Speed 28 T	1		A	●				
67	146.365	1315 303 004	93190512	Gear 3rd Speed 26 T	1		BC	●				
67	146.400	1316 303 058	42535327	Gear 3rd Speed 26 T	1		BC		●			
67	146.409	1316 303 006	93192494	Gear 3rd Speed 28 T	1		A			●		
67	146.391	1316 303 005	93191181	Gear 3rd Speed 26 T	1		BC			●		
68	105.109	1315 303 041		Countershaft 19-23 T	1		A	●				
68	105.124	1315 303 042	93193579	Countershaft 17-20 T	1		BC	●				
68	105.103	1316 303 034	93194241	Countershaft 19-23 T	1		A			●		
68	105.100	1316 303 033	93194079	Countershaft 17-20 T	1		BC		●	●		
69	130.307	0750 117 011	1905328	Bearing D.50,8x104,7x39,6	1			●				
69	130.308	0750 117 009	7982090	Bearing D.49,2x103,1x43,6	1				●	●		
70	137.135	0750 115 366	1905342	Needle Cage D.45x57x21	2			●				
70	137.149	0750 115 369	1905368	Needle Cage D.45x57x25	2				●	●		
71	147.142	1315 305 005		Reverse Gear 20 T	1		A	●				
71	147.126	1315 305 002	93190486	Reverse Gear 22 T	1		BC	●				
71	147.143	1316 305 002	93192488	Reverse Gear 20 T	1		A			●		
71	147.127	1316 305 001	93191173	Reverse Gear 22 T	1		BC		●	●		
72		1315 201 054		Reverse Shaft	1	Old (3)	A	●				
72		1315 201 053		Reverse Shaft	1	Old (3)	BC	●				
72		1316 201 030		Reverse Shaft	1	Old (3)	A			●		
72	190.301	1316 201 029	93191174	Reverse Shaft	1	Old (3)	BC		●	●		
73	190.302	1315 305 009	93191222	Reverse Shaft	1	New		●	●	●		
74		0631 329 293		Pin	1	New	A	●				
74		0631 329 294	93191223	Pin	1	New	BC	●				
74		0631 329 295	93192490	Pin	1	New	A			●		
74		0631 329 296	93191391	Pin	1	New	BC		●	●		
75	198.843	CEI 198843		Spring Slide Set	0			●	●	●		
76	198.838	1315 298 002	93161692	Oil Seal Kit	1			●	●	●		
77	198.797	1315 298 001	93161691	Gasket Kit	1			●	●	●		
78	298.021	1315 298 061		Synchro kit 4th/3rd Speed	1		(#)	●	●	●		
79	298.020	1315 298 060		Synchro kit 1st/2nd Speed	1		(@)	●	●	●		

ECO III

From 16S151  
To 16S221

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. **DO NO MIX** Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (@) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

03 / 2006

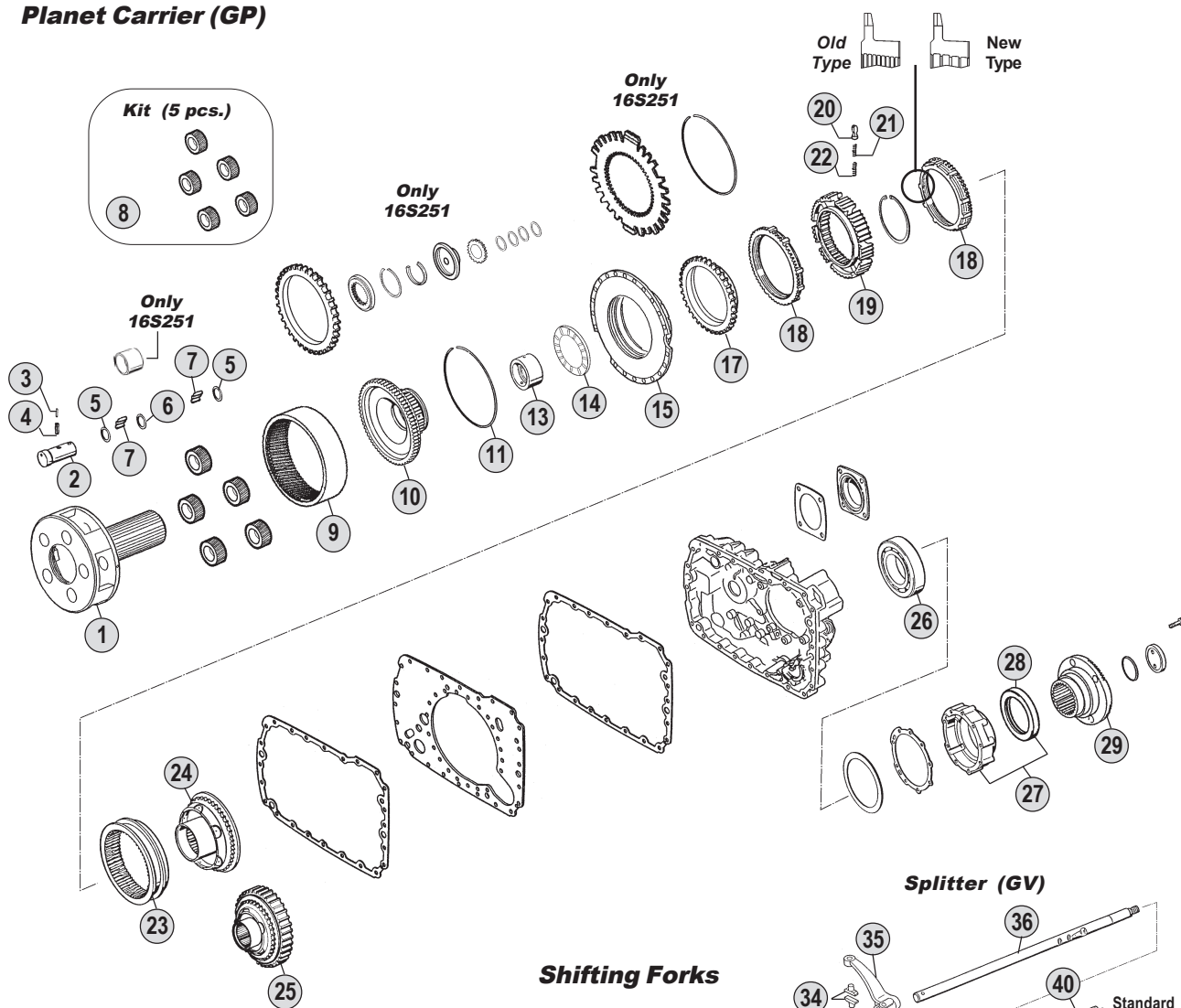
## Table

013 / A

Suitable To : **ZF**

**16S151 - 16S181 - 16S221**

**Planet Carrier (GP)**

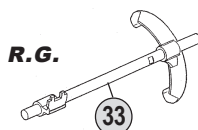
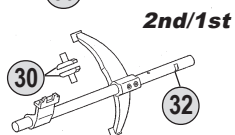
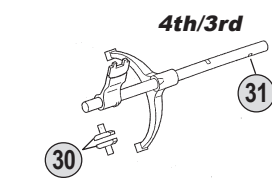


**Shifting Forks**

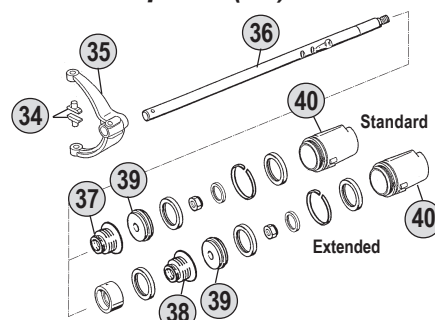
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 50</b>	<b>Kit 51</b>	<b>Kit 52</b>

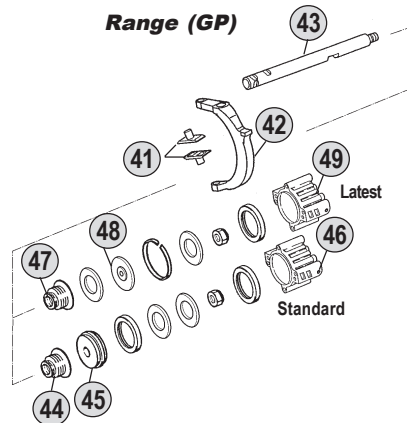
**Kits**



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16S151</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S181</b>	A: -	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S221</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.					IVECO no.	16S151 (1315)	16S181 (1316)	16S221 (1316)			
1	190.394	1315 232 016	42535031	Planetary Carrier	1		●						
1	190.325	1316 232 019		Planetary Carrier	1			●					
1	190.394	1315 232 016	42535031	Planetary Carrier	1	(4)		●					
1	190.325	1316 232 019		Planetary Carrier	1				●				
2	107.159	1315 332 053	42535032	Planet Shaft	1		●						
2	107.204	1316 332 096		Planet Shaft	5				●				
2	107.159	1315 332 053	42535032	Planet Shaft	5	(4)		●					
2	107.204	1316 332 096		Planet Shaft	5					●			
3	160.195	0631 329 167	93191213	Lock Pin D.3x26	5		●	●	●				
4	160.194	0631 329 051	93191212	Lock Pin D.5x26	5		●	●	●				
5	169.744	0730 107 168	8198826	Spacer Ring	10		●						
5	269.009	0730 109 323	42471323	Spacer Ring	10				●				
5	169.744	0730 107 168	8198826	Spacer Ring	10	(4)		●					
5	269.009	0730 109 323	42471323	Spacer Ring	10					●			
6	169.744	0730 107 168	8198826	Spacer Ring	5		●						
6	269.010	0730 109 309		Spacer Ring	5				●				
6	169.744	0730 107 168	8198826	Spacer Ring	5	(4)		●					
6	269.010	0730 109 309		Spacer Ring	5					●			
7	171.062	0750 119 116	93191132	Roller D.10x16,8	140		●	●	●				
8	198.798	1315 232 010	42534776	Planetary Gear Set (5 pcs)	1		●						
8	298.024	1316 232 011		Planetary Gear Set (5 pcs)	1				●				
8	198.798	1315 232 010	42534776	Planetary Gear Set (5 pcs)	1	(4)		●					
8	298.024	1316 232 011		Planetary Gear Set (5 pcs)	1					●			
9	123.211	1315 332 041	42535034	Crown Gear	1		●	●	●				
10	150.136	1316 332 103	42535330	Carrier Hub	1		●	●	●				
11		0730 513 583	42535035	Locking Wire	1		●	●	●				
13		1316 333 014	42535036	Bush	1		●	●	●				
14	130.312	0735 298 169	2991822	Bearing D.104,50x128,40x10	1		●	●	●				
15	135.122	1296 333 046	42535040	Saddle Plate	1		●	●	●				
17	109.174	1296 333 050	42535041	Synchronizer Cone	1		●	●	●				
18	119.085	1296 333 022	7982226	Synchronizer Ring	2	Old Type	●	●	●				
18	119.172	1296 333 045	42532826	Synchronizer Ring	2	New Type	●	●	●				
19	157.182	1313 333 001	93163920	Synchronizer Hub	1		●	●	●				
20	160.116	1240 304 278	2960200	Pressure Piece	9		●	●	●				
21	156.036	0732 040 386	9931785	Inner Spring De.3x34	9		●	●	●				
22	156.037	0732 040 385	8832940	Outer Spring De.6x34	9		●	●	●				
23	154.098	1296 333 023	7982227	Sliding Sleeve	1		●	●	●				
24	109.175	1316 233 015	42535042	Synchronizer Cone (44 Spl.)	1		●	●	●				
25	196.270	1316 233 014	42535346	Synchronizer Cone 59 T (44 Spl)	1	With Retarder	●	●	●				
26	130.245	0750 116 002	7982088	Bearing D.90x160x30	1		●	●	●				
27		1315 231 004		Cover	1		●	●	●				
28		0750 111 341	93194330	Oil Seal 105x130x12	1		●	●	●				
29		1297 333 110	93156114	Output Flange	1	D.180-4 H.	●	●	●				
29		1316 232 028		Output Flange	1	D.222-4 H.	●						
29		1316 338 002	93194088	Output Flange	1	D.180-4 H.				●			

## Notes

(4) 16S181 Special GP Version. This version use 16S151 GP items.  
For this version use items marked (4) together.

## Date

03 / 2006

## Table

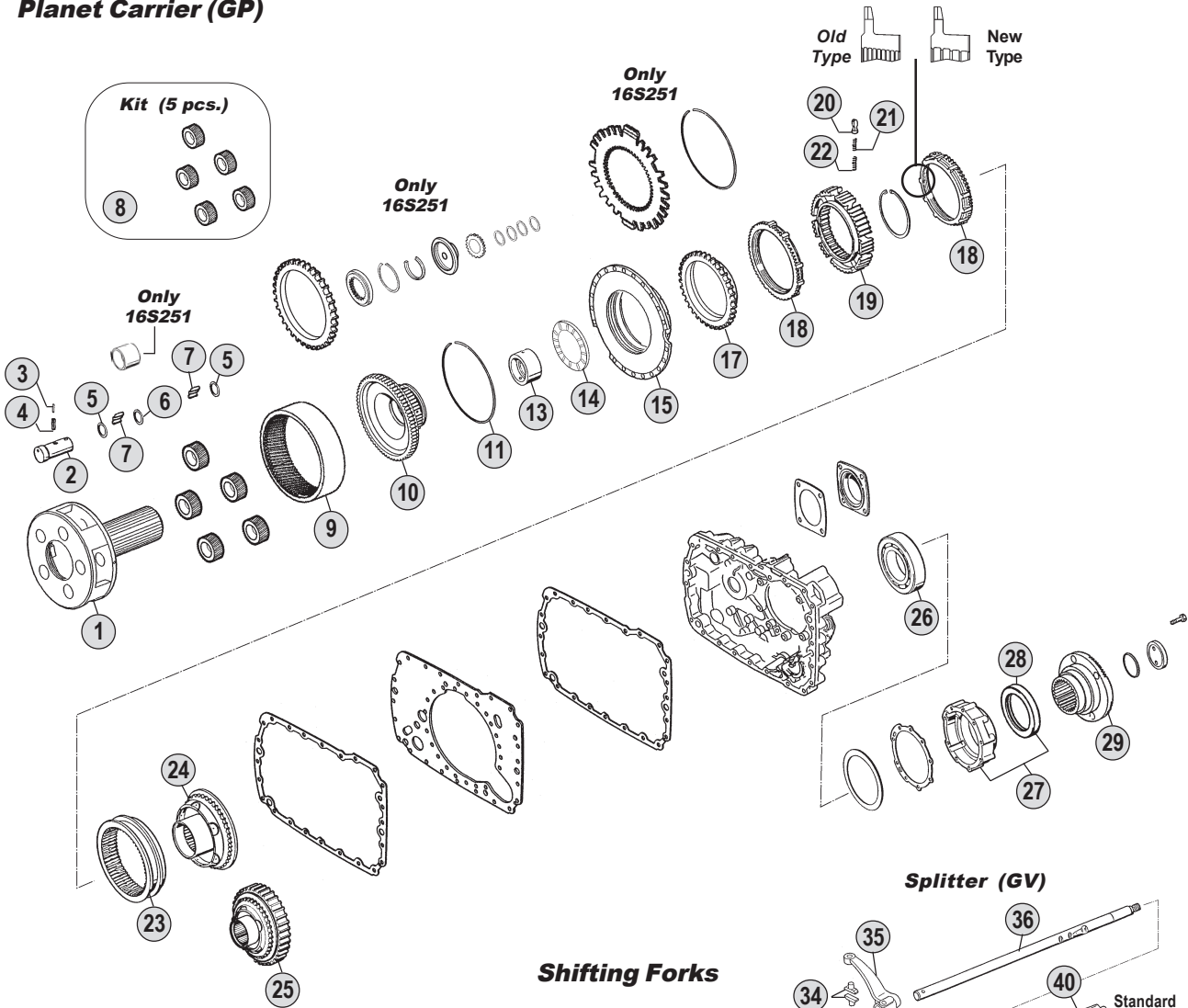
013 / B

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Suitable To : **ZF**

**16S151 - 16S181 - 16S221**

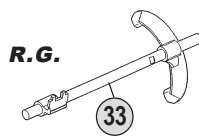
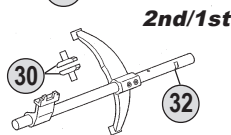
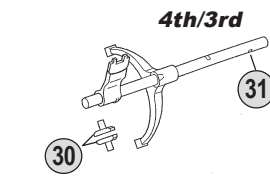
**Planet Carrier (GP)**



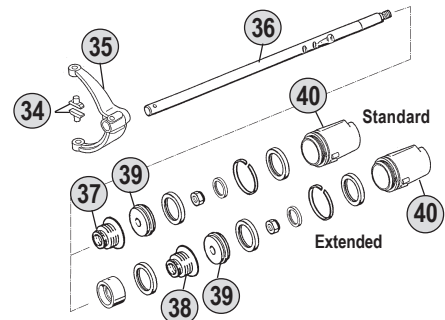
**Shifting Forks**

**Springs & Slides Kits**

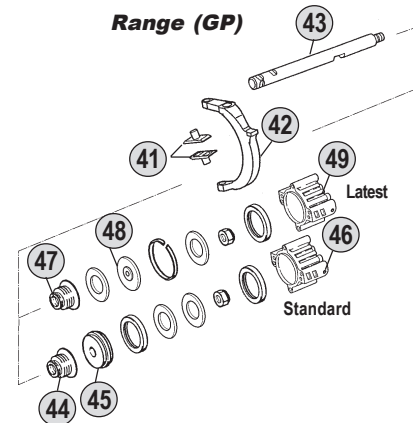
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 50</b>	<b>Kit 51</b>	<b>Kit 52</b>



**Splitter (GV)**



**Range (GP)**



**Kits**



**Gasket Kit 54**



**Oil Seal Kit 53**

**Ratios**

<b>16S151</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S181</b>	A: -	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S221</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --

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16S151 (1315)  
16S181 (1316)  
16S221 (1316)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	IVECO no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	
30	<b>141.163</b>	1297 306 120	8198817	Slide	2	Old Type	●	●	●		
30	141.168	1316 306 015	42537353	Slide	2	New Type	●	●	●		
31		1315 206 013	93190522	Fork	1	Old Type	●				
31		1315 206 055	42537658	Fork	1	New Type	●				
31		1315 206 024	93192530	Fork	1	Old Type	●				
31		1315 206 056		Fork	1	New Type	●				
31		1316 206 018	93191202	Fork	1	Old Type		●	●		
31		1316 206 037	42537352	Fork	1	New Type		●	●		
31		1316 206 017		Fork	1	Old Type			●		
31		1316 206 038		Fork	1	New Type			●		
32		1315 206 046	42532016	Fork	1	Old Type	●				
32		1315 206 052	42537660	Fork	1	New Type	●				
32		1315 206 047	42532067	Fork	1	Old Type	●				
32		1315 206 053		Fork	1	New Type	●				
32		1316 206 025	42531414	Fork	1	Old Type		●	●		
32		1316 206 033	42537351	Fork	1	New Type		●	●		
32		1316 206 026		Fork	1	Old Type			●		
32		1316 206 034		Fork	1	New Type			●		
32		1316 206 027		Fork	1	Old Type			●		
32		1316 206 035		Fork	1	New Type			●		
33		1315 206 003	93192531	Fork	1		●				
33		1315 206 023	93190523	Fork	1		●				
33		1316 206 013	93191203	Fork	1			●	●		
33		1316 206 014		Fork	1				●		
34	<b>141.163</b>	1297 306 120	8198817	Slide	2	Old Type	●	●	●		
34	141.168	1316 306 015	42537353	Slide	2	New Type	●	●	●		
35		1315 312 017	93190546	Fork	1	Old Type	●	●	●		
35		1315 312 074		Fork	1	New Type	●	●	●		
36		1315 312 049	42532017	Rod	1	Standard	●				
36		1315 312 022	93190545	Rod	1	Extended	●				
36		1316 312 016	42534711	Rod	1	Standard		●	●		
36		1316 312 008	93191206	Rod	1	Extended			●		
37		0750 112 131	93191207	Cap Collar D.25x40x15	1	Standard	●	●	●		
38	139.331	0750 112 034	8190753	Cap Collar D.25x38x14,2	1	Extended	●		●		
39		1315 312 020	93193406	Piston	1		●	●	●		
40		1315 312 048	42532018	Cylinder	1		●				
40		1316 312 015	42531413	Cylinder	1			●	●		
41	<b>141.085</b>	1296 334 004	7982228	Bronze Slide	2		●	●	●		
42		1315 334 039	42531416	Fork	1		●	●	●		
43		1315 334 058	42536235	Rod	1		●				
43		1316 334 010	42535861	Rod	1			●	●		
44	139.331	0750 112 034	8190753	Cap Collar D.25x38x14,2	1	Standard Type	●		●		
45	189.422	1296 334 039	42492447	Piston	1	Standard Type	●		●		
46		1315 334 021	93190570	Cylinder	1	Standard Type	●		●		
47		0750 112 131	93191207	Cap Collar D.25x40x15	1	Latest Type	●	●	●		

## Notes

(4) 16S181 Special GP Version. This version use 16S151 GP items.  
For this version use items marked (4) together.

## Date

03 / 2006

## Table

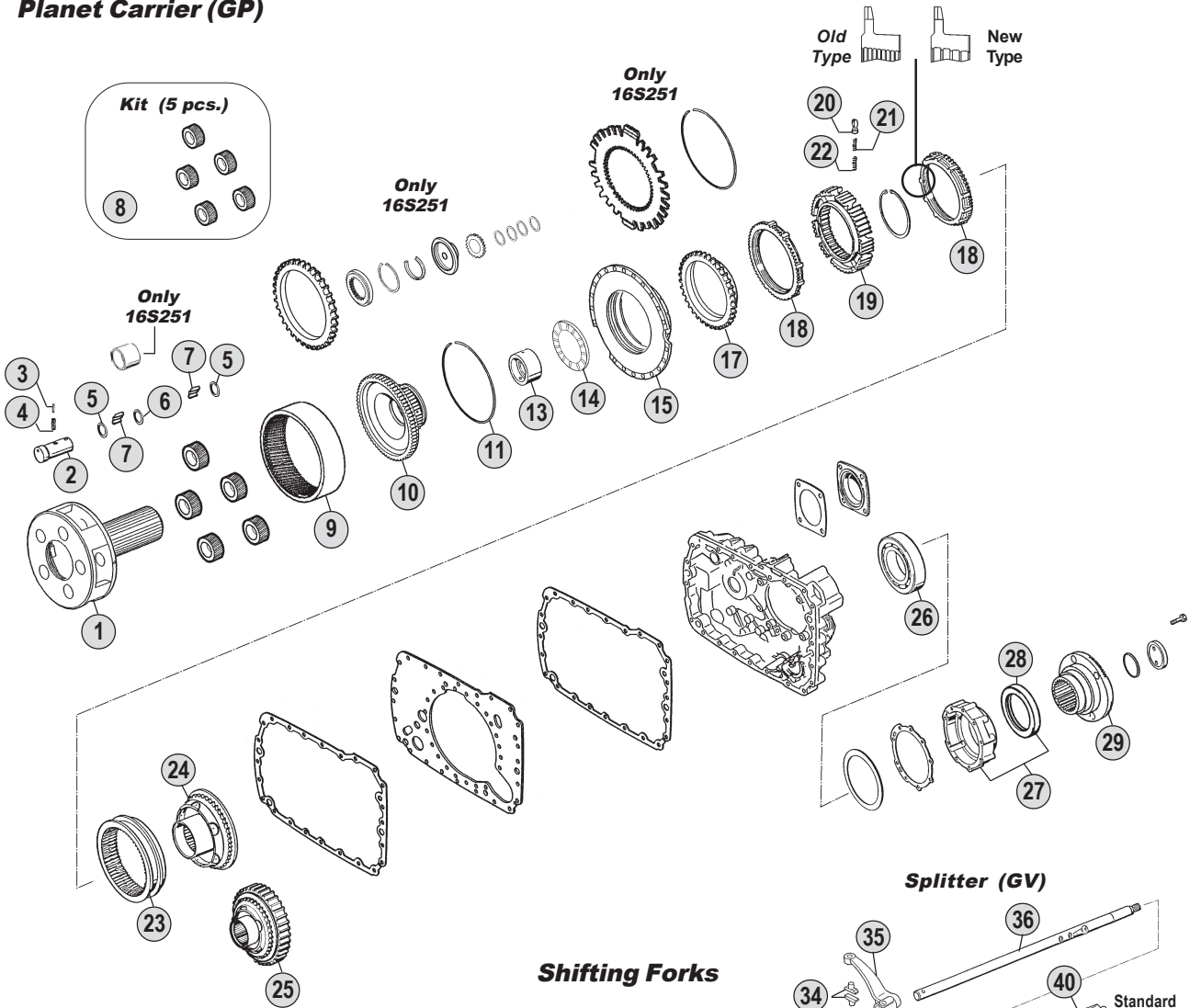
013 / B

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Suitable To : **ZF**

**16S151 - 16S181 - 16S221**

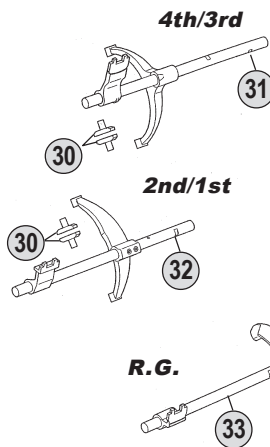
**Planet Carrier (GP)**



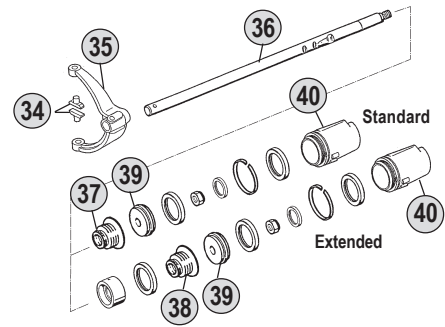
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 50</b>	<b>Kit 51</b>	<b>Kit 52</b>

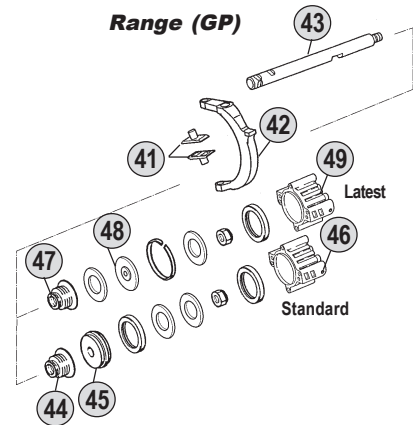
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S151</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S181</b>	A: -	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S221</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --

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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
/ / /

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio	16S151 (1315)	16S181 (1316)	16S221 (1316)		
	CEI no.	ZF no.									
48		1315 334 034	93193604	<i>Piston</i>	1	Latest Type	●	●	●		
49		1315 334 056	42534474	<i>Cylinder</i>	1	Latest Type	●	●	●		
50	198.339	1268 298 938		<i>Spring Slide Set</i>	1		●	●	●		
51	198.564	CEI 198564		<i>Spring Slide Set</i>	1		●	●	●		
52	198.842	1295 298 933		<i>Spring Slide Set</i>	1		●	●	●		
53	198.838	1315 298 002	93161692	<i>Oil Seal Kit</i>	1		●	●	●		
54	198.797	1315 298 001	93161691	<i>Gasket Kit</i>	1		●	●	●		

ECO III  
From 16S151  
To 16S221

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Notes \_\_\_\_\_ Date \_\_\_\_\_

(4) 16S181 Special GP Version. This version use 16S151 GP items.  
For this version use items marked (4) together.

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Table



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Suitable to : **Renault V.I.**

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# Gearboxes Index

**EcoSplit I**  
**16S130**

**EcoSplit II**  
**16S150**

**EcoSplit III**  
**16S151**  
**16S181**  
**16S221**  
**16S251**

**R.V.I.**  
**INDEX**



suitable to :

**Z.F.****EcoSplit I****From 16S112 to 16S190****Application**

	<b>16S112</b>	<b>16S130</b>	<b>16S160</b>	<b>16S190</b>
	(1296)	(1295)	(1297)	(1297)
<b>MERCEDES</b>				
<b>M.A.N.</b>				
<b>IVECO</b>				
<b>R.V.I.</b>				
<b>DAF</b>				
<b>VOLVO</b>				

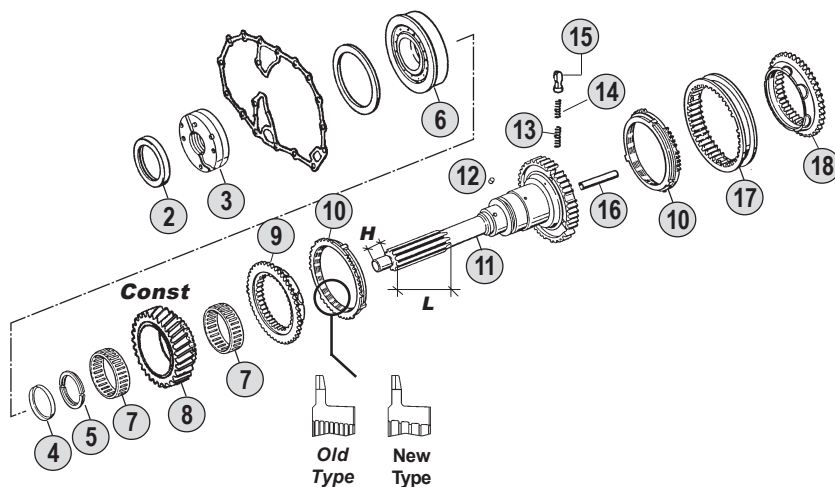
**ECO I**  
16S130**Ratios**

	<b>R.10,14-0,72</b>	<b>R.11,46-0,85</b>	<b>R.13,68-1,00</b>	<b>R.14,29-0,82</b>	<b>R.17,06-1,00</b>
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>16S112</b>					
<b>16S130</b>					
<b>16S160</b>					
<b>16S190</b>					

Suitable To : **ZF**

**16S130**

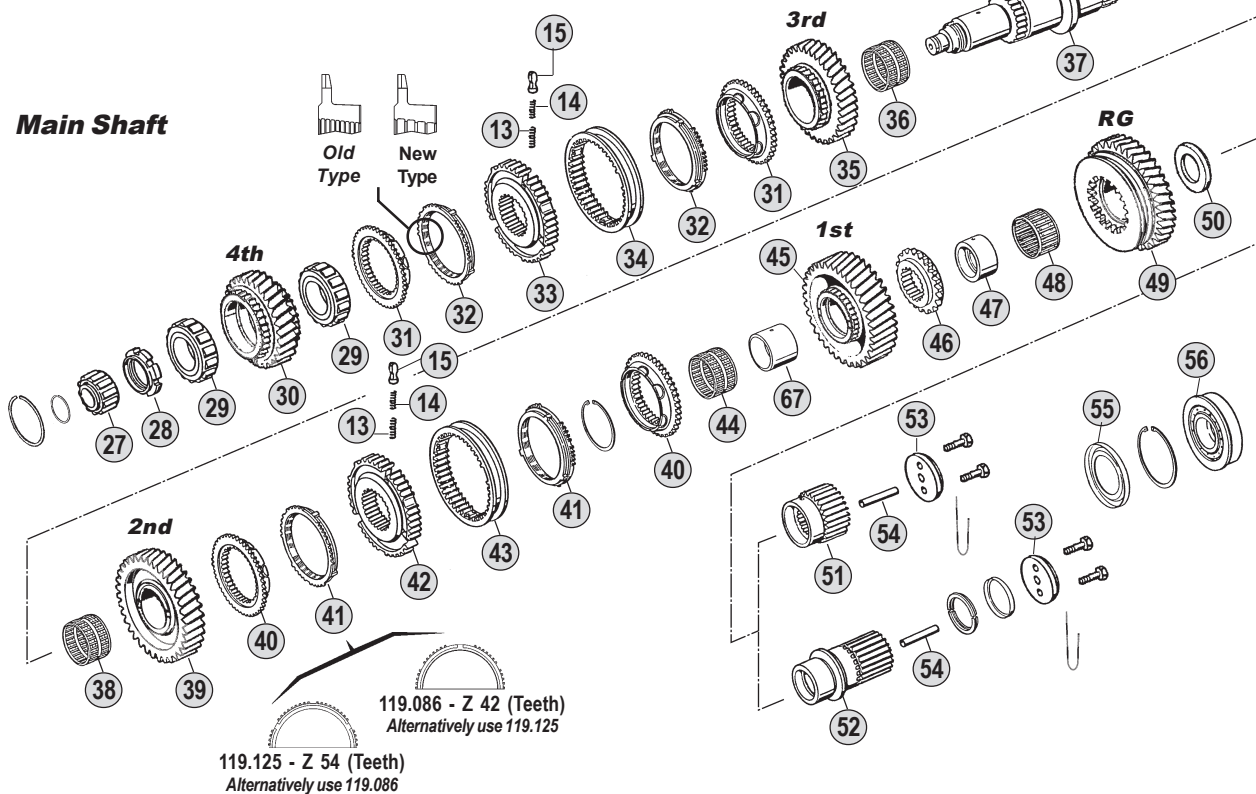
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

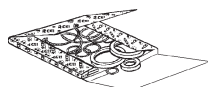
**Main Shaft**



**Kits**

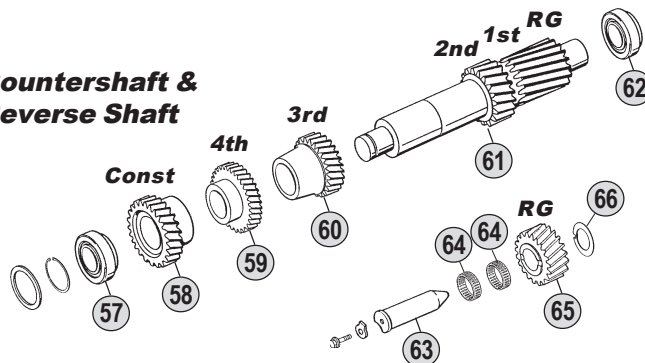


**Gasket Kit 72**



**Oil Seal Kit 71**

**Countershaft & Reverse Shaft**



**Ratios**

**16S130** A: 10,14-0,72 B: 11,46 - 0,85 C: 13,68 - 1,00 D: 14,29 - 0,82 E:--

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio									
	CEI no.	ZF no.					R.V.I. no.	16S130							
2		0634 310 733		Oil Seal 90x110x13	1		●								
3	<b>280.348</b>	1295 202 041	50 01 831 784	Oil Pump	1		●								
4	169.754	0730 061 816	50 01 821 499	Securing Ring	1		●								
4	169.755	0730 062 579	50 01 842 887	Securing Ring	1	S.4,20 mm	●								
5		0730 103 244	50 01 821 494	Split Ring T.4,30 mm	1	S.4,30 mm (2)	●								
5		0730 103 935		Split Ring T.3,80 mm	1	S.3,80 mm (2)	●								
5		0730 105 156		Split Ring T.4,00 mm	1	S.4,00 mm (3)	●								
5		0730 105 154		Split Ring T.3,80 mm	1	S.3,80 mm (3)	●								
6	130.305	0750 118 131	50 00 293 036	Bearing D.80x150x27,50	1		●								
7	137.082	0735 320 786	50 00 293 165	Needle Cage D.88x96x24,50	2		●								
8	<b>145.276</b>	1295 302 071		Constant Gear 28 T	1			AC	●						
8	145.489	1295 302 070	50 00 289 688	Constant Gear 30 T	1			B	●						
8	145.541	1295 302 122	50 01 821 431	Constant Gear 29 T	1			D	●						
9	<b>109.072</b>	1295 304 278	50 00 289 689	Synchronizer Cone	1				●						
10	<b>119.084</b>	1295 304 004	50 00 289 691	Synchronizer Ring	2	Old Type			●						
10	<b>119.175</b>	1304 304 686		Synchronizer Ring	2	New Type			●						
11		1295 221 003	50 00 289 686	Input Shaft	1	NMV130 (Clutch PTO)			●						
12		0635 470 012	07 75 150 400	Pin	1				●						
13	<b>156.037</b>	0732 040 385	77 01 007 805	Outer Spring De.6x34	3				●						
14	<b>156.036</b>	0732 040 386	50 00 255 277	Inner Spring De.3x34	3				●						
15	<b>160.116</b>	1240 304 278	50 00 255 276	Pressure piece	3				●						
16	188.208	0730 062 323		Oil Tube	1				●						
17	<b>154.097</b>	1295 304 002	50 00 289 690	Sliding Sleeve	1				●						
18	<b>109.072</b>	1295 304 278	50 00 289 689	Synchronizer Cone	1				●						
27	137.081	0750 118 010	50 00 293 086	Roller Cage D.30x60x25,50	1				●						
28	187.412	0737 502 092	50 00 293 038	Grooved Nut M60x1,5	1				●						
29	137.083	0750 118 005	50 00 293 043	Roller Cage D.63x97,5x34,80	2				●						
30	<b>146.212</b>	1295 304 135		Gear 4th Speed 30 T	1			AC	●						
30	<b>146.356</b>	1295 304 136	50 00 289 176	Gear 4th Speed 28 T	1			B	●						
30	<b>146.454</b>	1295 304 236	50 01 821 489	Gear 4th Speed 26 T	1			D	●						
31	<b>109.072</b>	1295 304 278	50 00 289 689	Synchronizer Cone	2				●						
32	<b>119.084</b>	1295 304 004	50 00 289 691	Synchronizer Ring	2	Old Type			●						
32	<b>119.175</b>	1304 304 686		Synchronizer Ring	2	New Type			●						
33	<b>157.110</b>	1297 304 031	50 00 289 724	Synchronizer Hub	1				●						
34	<b>154.097</b>	1295 304 002	50 00 289 690	Sliding Sleeve	1				●						
35		1295 304 269		Gear 3rd Speed 25 T	1			A	●						
35	145.495	1295 304 127	50 00 289 714	Gear 3rd Speed 32 T	1			BD	●						
35	<b>145.277</b>	1295 304 128		Gear 3rd Speed 34 T	1			C	●						
36	137.084	0735 320 418	50 00 821 191	Needle Cage D.82x90x49	1				●						
37		1295 304 273		Main Shaft	1			A	●						
37	103.075	1295 304 245	50 00 289 695	Main Shaft	1			BC	●						
37	103.140	1295 304 250	50 01 821 488	Main Shaft	1			D	●						
38	137.112	0735 320 451		Needle Cage D.82x90x60	1			A	●						
38	137.084	0735 320 418	50 00 821 191	Needle Cage D.82x90x49	1			BCD	●						
39		1295 304 271		Gear 2nd Speed 34 T	1			A	●						

## Notes

- (2) To be coupled together with Fig. 4 - 0730 061 816  
 (3) To be coupled together with Fig. 4 - 0730 062 579  
 (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30 ) -  
 Standard Syncro Ring Ø 192 mm ( Z 63 or 54 ) Use items marked (6) together

## Date

03 / 2006

## Table

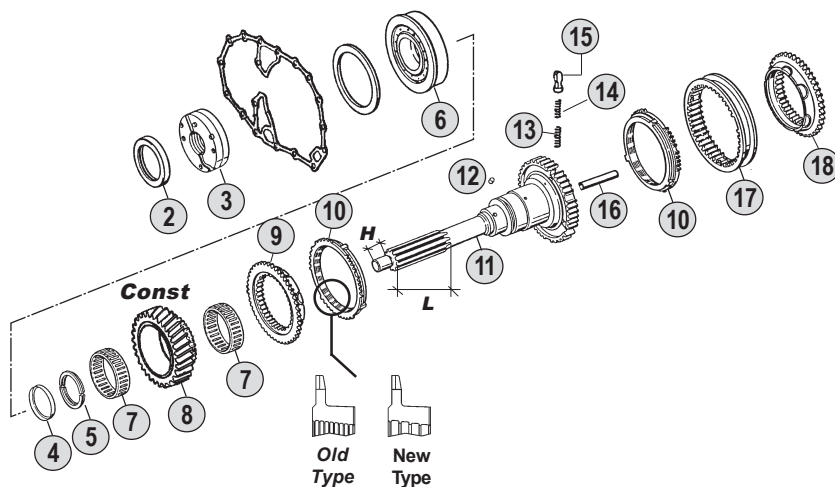
014 / A

ECO I  
16S130

Suitable To : **ZF**

**16S130**

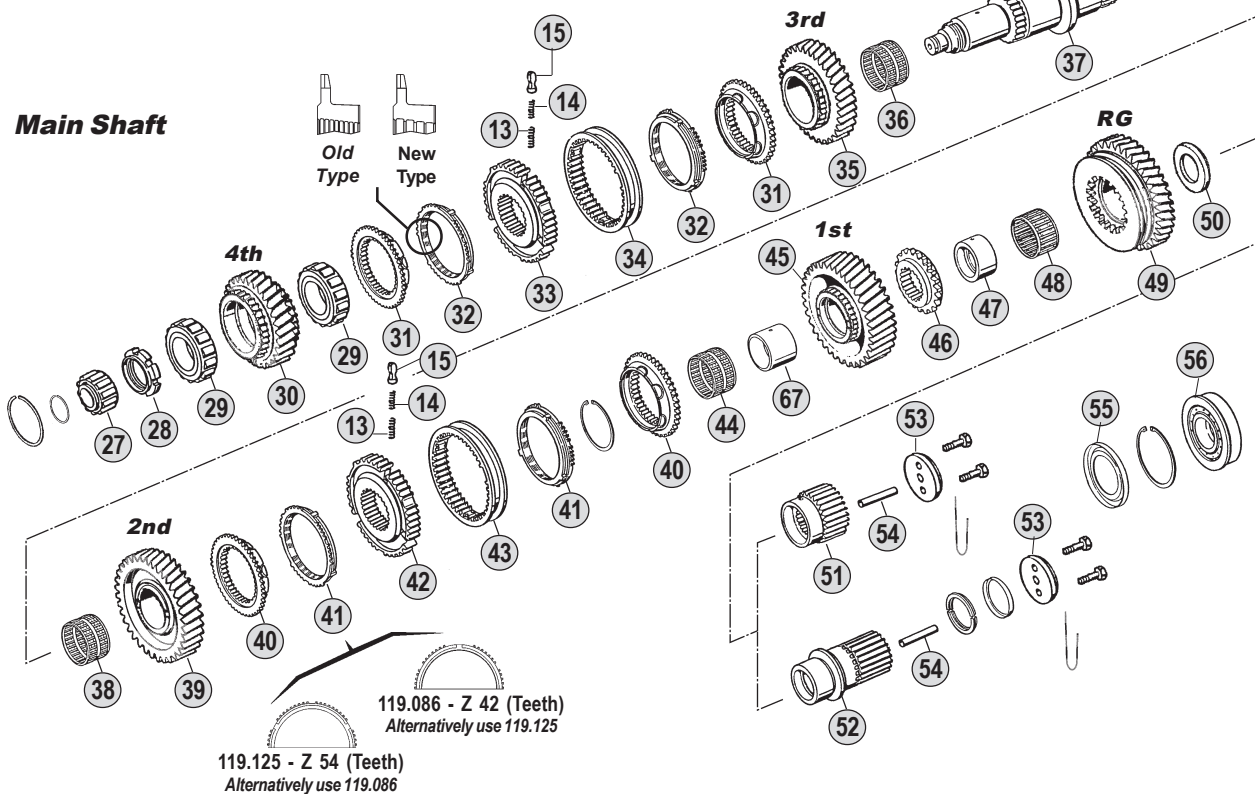
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

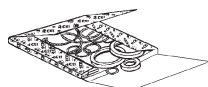
**Main Shaft**



**Kits**

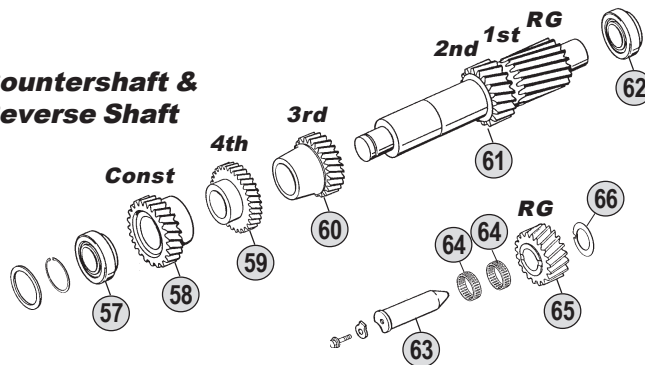


**Gasket Kit 72**



**Oil Seal Kit 71**

**Countershaft & Reverse Shaft**



**Ratios**

**16S130** A: 10,14-0,72 B: 11,46 - 0,85 C: 13,68 - 1,00 D: 14,29 - 0,82 E:--

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					R.V.I. no.	16S130						
39	145.501	1295 304 120	50 00 289 704	Gear 2nd Speed 37 T	1	BD	●							
39	<b>145.278</b>	1295 304 121		Gear 2nd Speed 38 T	1	C	●							
40	<b>109.074</b>	1297 304 196	50 00 289 709	Synchronizer Cone	2		●							
40	<b>109.072</b>	1295 304 278	50 00 289 689	Synchronizer Cone	2	(6)	●							
41	<b>119.125</b>	1296 304 135	50 01 824 949	Synchronizer Ring	2	Z 54 - Alt. use 119.086	●							
41	<b>119.086</b>	1246 304 278	50 00 289 708	Synchronizer Ring 42 T	2	Z 42 - Alt. use 119.125	●							
41	<b>119.084</b>	1295 304 004	50 00 289 691	Synchronizer Ring	2	(6)	●							
42	<b>157.111</b>	1297 304 195	50 00 289 707	Synchronizer Hub	1		●							
42	<b>157.110</b>	1297 304 031	50 00 289 724	Synchronizer Hub	1	(6)	●							
43	<b>154.051</b>	1257 304 020	50 00 559 621	Sliding Sleeve 1st-2nd Speed	1		●							
43	<b>154.097</b>	1295 304 002	50 00 289 690	Sliding Sleeve	1	(6)	●							
44	137.159	0735 320 548		Needle Cage D.70x78x46	1	A	●							
44	137.085	0735 320 496	50 00 293 042	Needle Cage D.70x78x55	1	BCD	●							
45		1295 304 270		Gear 1st Speed 41 T	1	A	●							
45	145.506	1295 304 203	50 00 289 710	Gear 1st Speed 44 T	1	BD	●							
45	145.279	1295 304 202		Gear 1st Speed 47 T	1	C	●							
46	109.184	1295 304 024		Engaging Ring	1	A	●							
46	109.075	1295 304 206	50 00 289 711	Engaging Ring	1	BCD	●							
47	117.203	1295 304 012	50 00 289 956	Bush D.60x75x38	1	ABC	●							
48	137.086	0750 115 059	50 00 293 039	Needle Cage D.75x83x40	1		●							
49		1295 304 272		Reverse Gear 39 T	1	A	●							
49	147.138	1295 304 201	50 00 289 712	Reverse Gear 39 T	1	BD	●							
49	147.093	1295 304 200		Reverse Gear 38 T	1	C	●							
50	169.409	1295 304 240	50 00 289 713	Thrust Washer	1	ABC	●							
51	157.112	1295 304 248	50 00 289 728	Sun Gear 27 T	1	ABC	●							
52	157.207	1295 304 251	50 01 821 493	Sun Gear 24 T	1	D	●							
53	188.076	1272 304 021	50 00 289 730	Stop Washer	1		●							
54		0730 061 842	50 00 283 839	Oil Tube	1		●							
55		1295 304 129	50 00 289 666	Oil Collector	1	ABC	●							
55		1297 301 004	50 01 821 798	Oil Collector	1	D	●							
56	130.240	0750 118 153	50 00 293 032	Bearing D.60x130x31	1	ABC	●							
56		0750 118 137	50 01 821 796	Bearing 80x140x26	1	D	●							
57	<b>130.242</b>	0750 117 010	50 00 808 760	Bearing D.50,80x100x35	1		●							
58	<b>146.210</b>	1295 303 101		Constant Gear 34 T	1	AC	●							
58	146.354	1295 303 036	50 00 289 693	Constant Gear 31 T	1	B	●							
58	146.457	1295 303 060	50 01 821 435	Constant Gear 32 T	1	D	●							
59	<b>146.209</b>	1295 303 027		Gear 4th Speed 31 T	1	AC	●							
59	146.413	1295 303 028	50 00 289 694	Gear 4th Speed 34 T	1	B	●							
59	146.461	1295 303 094	50 01 821 436	Gear 4th Speed 35 T	1	D	●							
60		1295 303 071		Gear 3rd Speed 36 T	1	A	●							
60	146.355	1295 303 025	50 00 289 692	Gear 3rd Speed 28 T	1	BD	●							
60	<b>146.211</b>	1295 303 026		Gear 3rd Speed 25 T	1	C	●							
61		1295 303 072		Countershaft	1	A	●							
61	105.119	1295 303 067	50 00 289 702	Countershaft 19-23 T	1	BD	●							
61	<b>105.060</b>	1295 303 066		Countershaft 17-20 T	1	C	●							

## Notes

- (2) To be coupled together with Fig. 4 - 0730 061 816  
 (3) To be coupled together with Fig. 4 - 0730 062 579  
 (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30 ) -  
 Standard Syncro Ring Ø 192 mm ( Z 63 or 54 ) Use items marked (6) together

## Date

03 / 2006

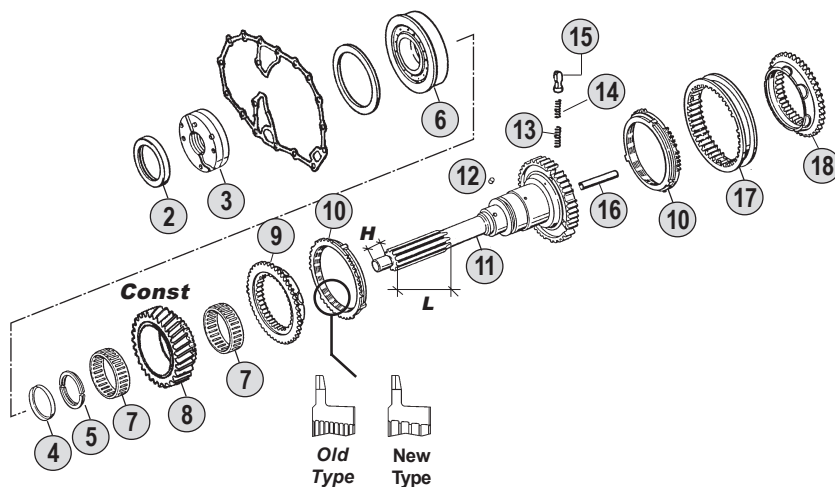
## Table

014 / A

Suitable To : **ZF**

**16S130**

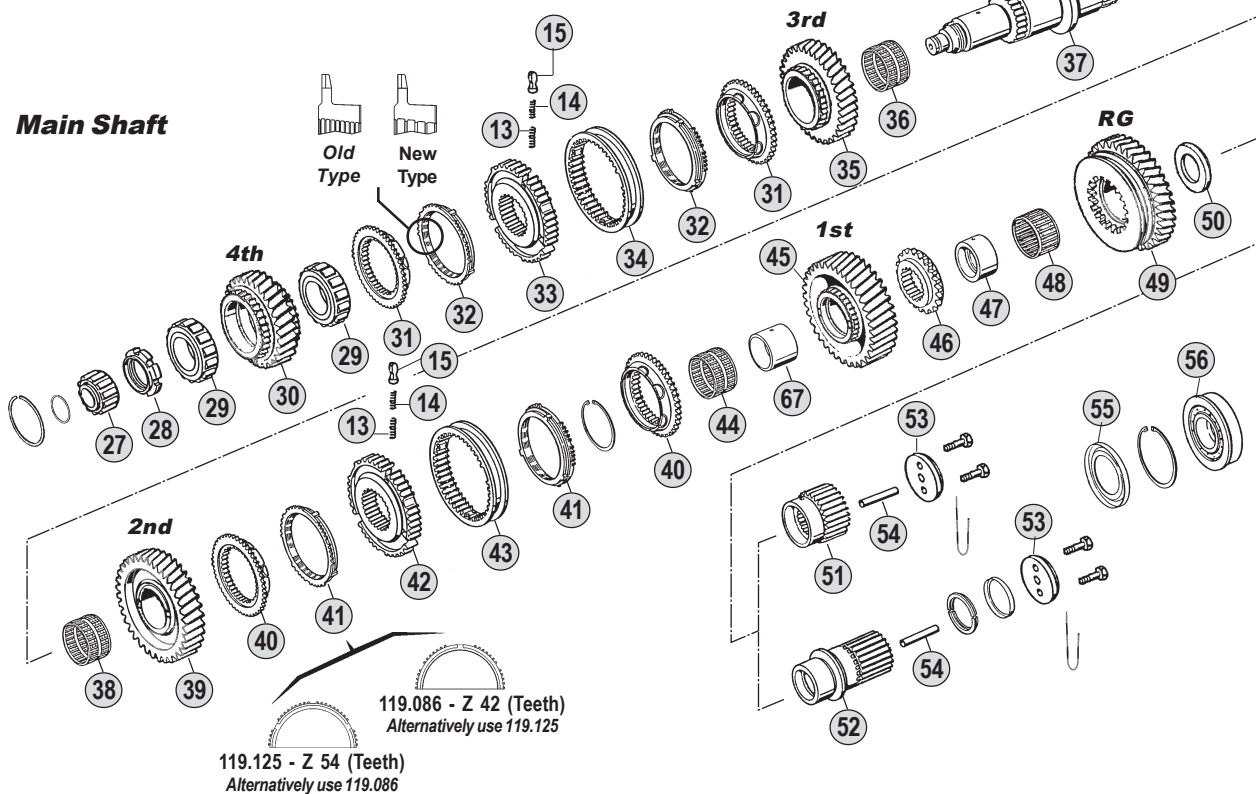
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

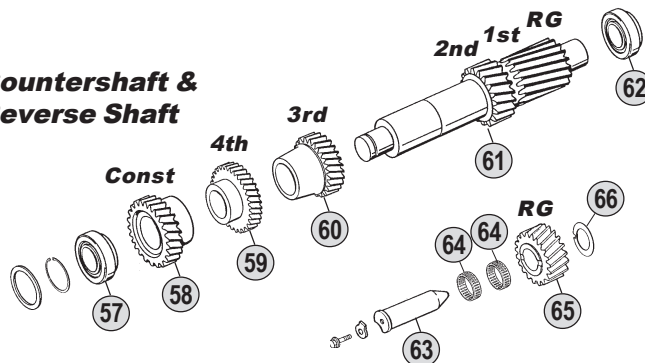
**Main Shaft**



**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

**16S130** A:10,14-0,72 B: 11,46 - 0,85 C: 13,68 - 1,00 D: 14,29 - 0,82 E:--

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	●			
		ZF no.	R.V.I. no.								
62	130.243	0750 117 008	50 00 293 037	Bearing D.50x110x42	1			●			
63	107.108	1295 305 056	50 00 289 670	Reverse Gear Pin	1			●			
64	137.007	0750 115 011	50 00 287 806	Needle Cage D.45x53x21	2			●			
65	147.153	1297 305 003		Reverse Gear 21 T	1		A	●			
65	147.133	1295 305 051	50 00 289 667	Reverse Gear 21 T	1		BD	●			
65	147.094	1295 305 052		Reverse Gear 24 T	1		C	●			
66	169.234	0730 150 064	50 00 240 306	Thrust Washer	1			●			
68	198.339	1268 298 938		Spring Slide Set	1			●			
69	198.564	CEI 198564		Spring Slide Set	1			●			
70	198.842	1295 298 933		Spring Slide Set	1			●			
71	198.428	1295 298 960	50 01 849 894	Oil Seal Ring Kit	1			●			
72	198.427	1295 298 915	50 01 831 982	Gasket Kit	1			●			

ECO I  
16S130

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## Notes

- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30) -  
Standard Syncro Ring Ø 192 mm (Z 63 or 54) Use items marked (6) together

## Date

03 / 2006

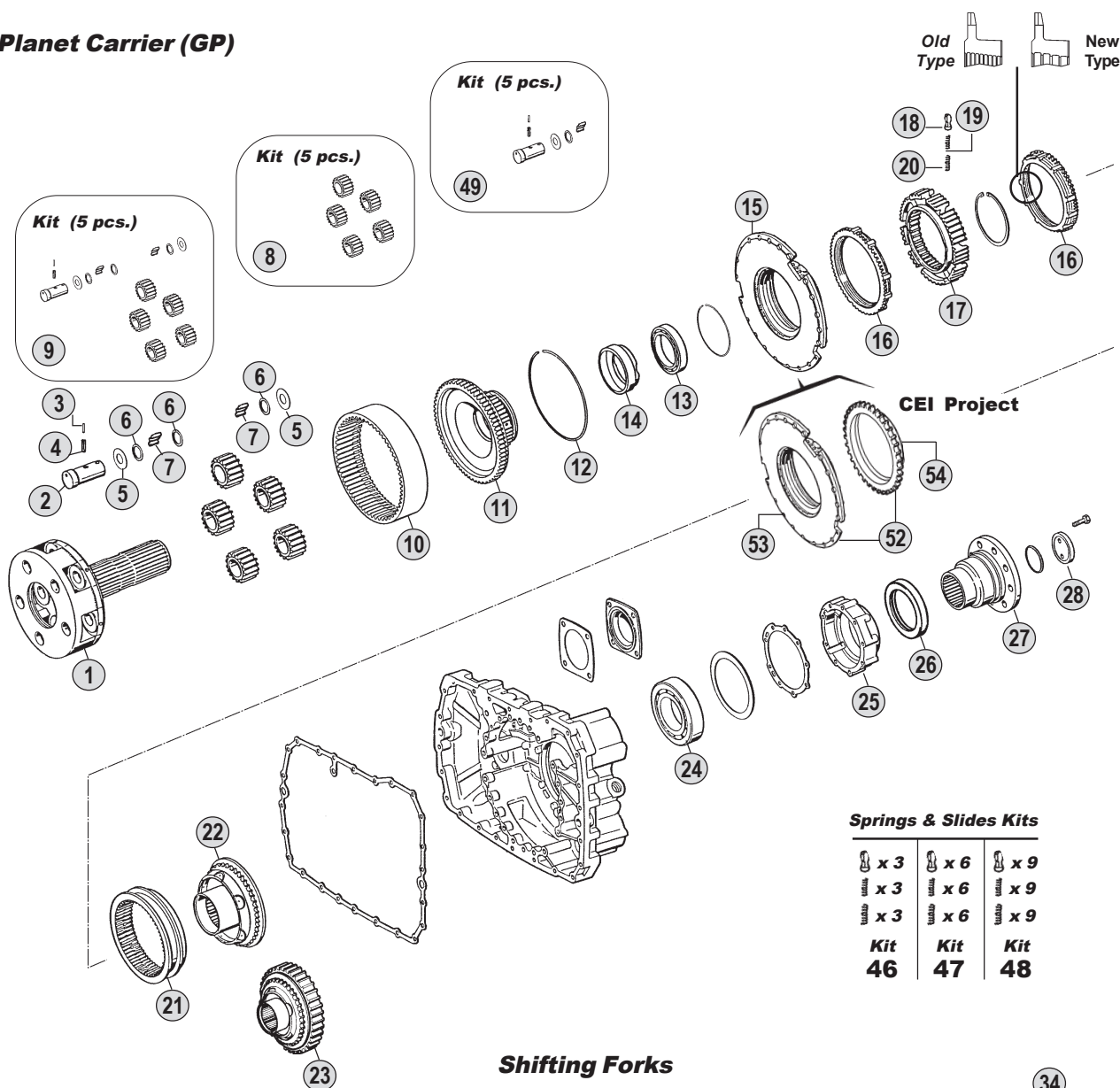
## Table

014 / A

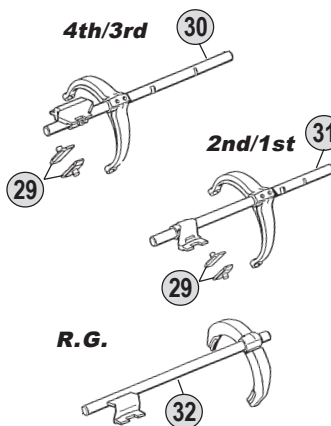
Suitable To : **ZF**

**16S130**

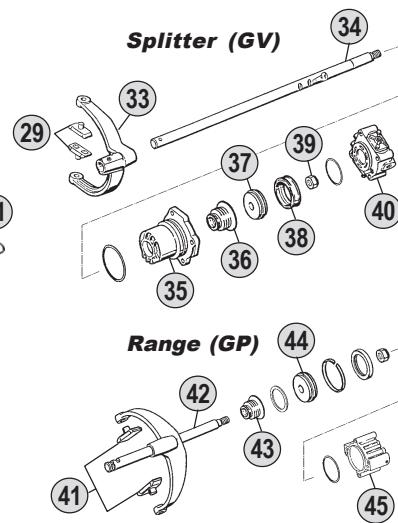
**Planet Carrier (GP)**



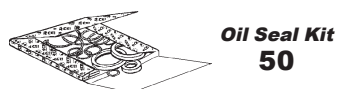
**Shifting Forks**



**Splitter (GV)**



**Kits**



**Ratios**

**16S130** A: 10,14 - 0,72 B: 11,46 - 0,85 C: 13,68 - 1,00 D: 14,29 - 0,82 E: --

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Fig.	O.E.M. Reference			Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.	R.V.I. no.										
1	190.169	1295 232 044	50 00 289 812	Planetary Carrier	1		ABC	●					
1	190.395	1297 232 045	50 01 821 634	Planetary Carrier	1		D	●					
2	<b>107.089</b>	1269 332 036	00 03 205 269	Planet Shaft	5		ABC	●					
2	107.163	1297 332 109	50 01 821 512	Planet Shaft	5		D	●					
3	160.191	0631 329 017		Lock Pin D.3x24	5			●					
4	160.192	0631 329 050		Lock Pin D.5x24	5			●					
5	169.408	0501 305 887	50 00 803 562	Thrust Washer D.29x57,50x1,50	10		ABC	●					
5	169.753	0501 306 212	50 01 821 510	Thrust Washer D.29x64x1,5	10		D	●					
6	<b>169.410</b>	0730 103 846	50 00 803 563	Spacer Ring D.29x39x1,00	15			●					
7	<b>171.016</b>	0735 470 057	50 00 803 564	Roller Set D.6x14,75 (180 pcs)	180		ABC	●					
7	171.045	0750 119 109	50 01 821 511	Roller Set D.10x16,80 (120 pcs)	120		D	●					
8	<b>198.357</b>	1295 232 027	50 00 289 814	Planetary Gear Set (5 pcs)	1		ABC	●					
8	198.810	1297 232 024	50 01 821 509	Planetary Gear Set (5 pcs)	1		D	●					
9	198.562	1296 298 904		Planetary Gear Set	1		ABC	●					
10	123.162	1295 332 053	50 00 289 816	Crown Gear 83 T	1		ABC	●					
10	123.208	1295 332 086	50 01 831 869	Crown Gear 86 T	1		D	●					
11	150.112	1295 332 021	50 00 289 815	Flange Gear 83 T	1		ABC	●					
11	150.137	1297 332 035	50 01 821 515	Flange Gear 86 T	1		D	●					
12	111.129	0730 505 055	50 00 293 034	Locking Wire	1		ABC	●					
12	111.198	0730 505 056	50 01 821 642	Locking Wire	1		D	●					
13	130.244	0750 116 166	50 00 293 033	Bearing D.75x105x16	1		ABC	●					
13	130.310	0750 116 165	50 01 821 522	Bearing D.80x110x16	1		D	●					
14		1297 332 002		Ring	1		D	●					
15	<b>198.358</b>	1296 233 006	50 00 289 822	Synchronizer Cone	1			●					
16	<b>119.085</b>	1296 333 022	50 00 289 824	Synchronizer Ring	2	Old Type		●					
16	<b>119.172</b>	1296 333 045	50 01 846 736	Synchronizer Ring	2	New Type		●					
17	<b>157.113</b>	1296 333 002	50 00 289 823	Synchronizer Hub	1			●					
18	<b>160.116</b>	1240 304 278	50 00 255 276	Pressure Piece	9			●					
19	<b>156.036</b>	0732 040 386	50 00 255 277	Inner Spring De.3x34	9			●					
20	<b>156.037</b>	0732 040 385	77 01 007 805	Outer Spring De.6x34	9			●					
21	<b>154.098</b>	1296 333 023	50 00 289 825	Sliding Sleeve	1			●					
22	<b>198.359</b>	1295 233 025	50 00 289 826	Synchronizer Cone (36 Spl.)	1		ABC	●					
22	<b>198.374</b>	1313 233 001	50 01 821 639	Synchronizer Cone (38 Spl.)	1		D	●					
23		1297 333 117		Synchronizer Cone	1	With Retarder	ABC	●					
23		1297 333 118		Synchronizer Cone	1	With Retarder	D	●					
24	130.245	0750 116 002	50 01 858 080	Bearing D.90x160x30	1			●					
25		1296 301 067	50 00 289 809	Cover	1			●					
25	128.098	1315 301 220	50 01 831 854	Cover	1			●					
26		0750 111 341	50 00 289 673	Oil Seal 105x130x12	1			●					
27		1295 238 003		Output Flange	1	D.165-8 H.	ABC	●					
27		1295 338 061		Output Flange	1	D.180-4 H.	ABC	●					
27	197.051	1295 338 014		Output Flange	1	D.180-10 H.	ABC	●					
27		1295 338 059		Output Flange	1	D.180-10 H.	ABC	●					
27	197.074	1295 338 016	50 00 289 819	Output flange	1	D.204-4 H.	ABC	●					
27		1295 338 028		Output Flange	1	D.204-4 H.	ABC	●					

Notes

Date

03 / 2006

Table

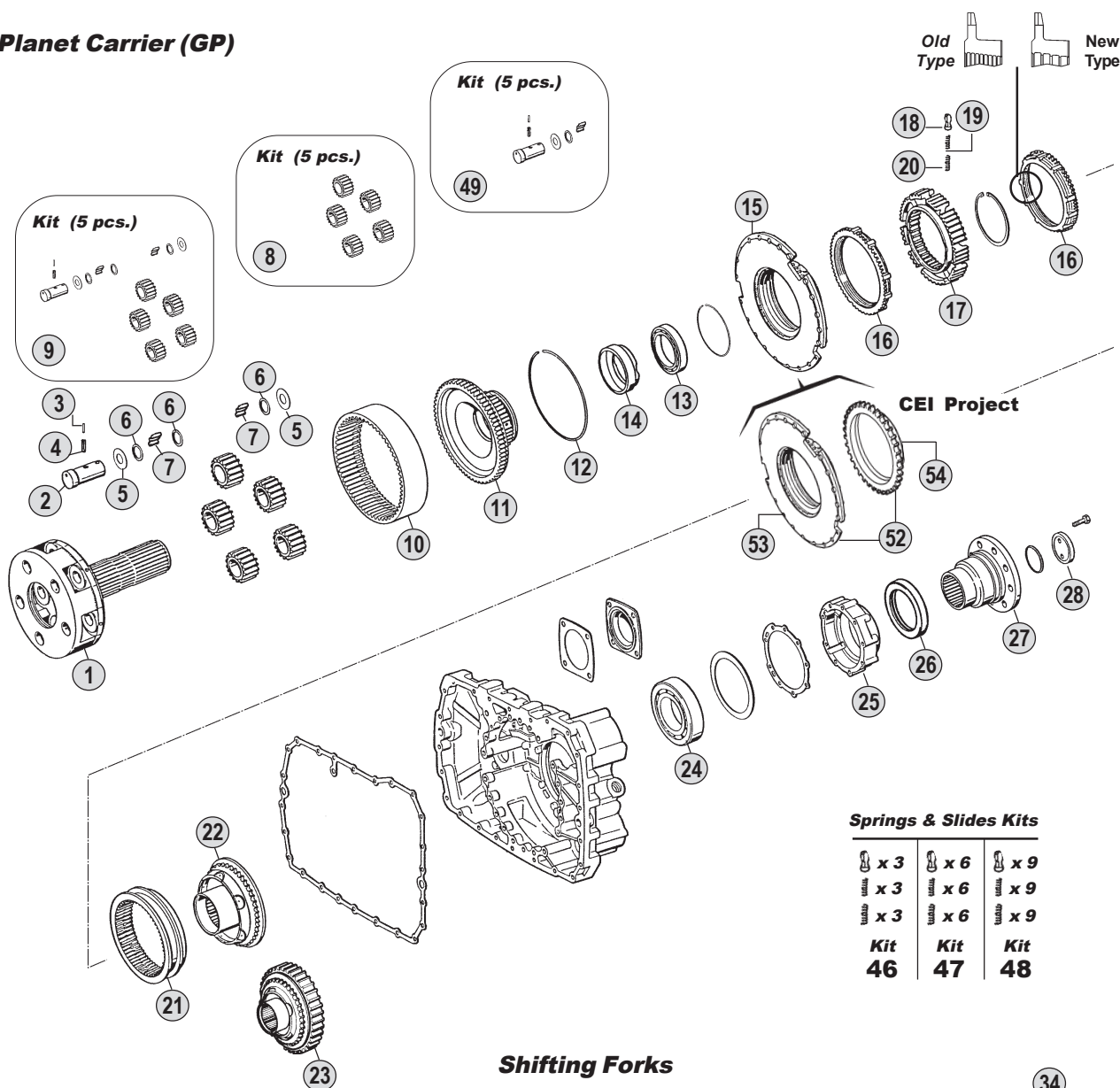
014 / B

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Suitable To : **ZF**

**16S130**

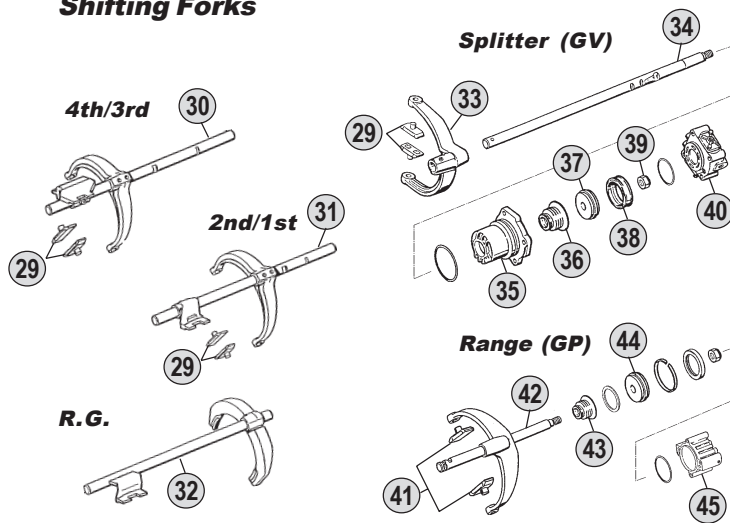
**Planet Carrier (GP)**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

**Shifting Forks**



**Kits**



**Ratios**

**16S130** A:10,14-0,72 B: 11,46 - 0,85 C: 13,68 - 1,00 D: 14,29 - 0,82 E:--

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					R.V.I. no.					
27		1297 338 041		Output Flange	1	D.180-4 H.	D	●				
27		1297 338 010		Output Flange	1	D.180-10 H.	D	●				
28	188.077	1295 332 051	50 00 289 820	Stop Washer	1			●				
28		1295 332 064		Stop Washer	1	Only with 1295 238 003		●				
29	141.068	1295 306 132	50 00 821 828	Bronze Slide	2			●				
30		1295 206 219		Fork	1			●				
30		1295 206 212	50 00 289 742	Fork	1			●				
30	198.362	1295 206 213		Fork	1			●				
31		1295 206 223		Fork	1			●				
31		1295 206 217		Fork	1			●				
31		1295 206 214		Fork	1			●				
31		1295 206 215	50 00 289 741	Fork	1			●				
32		1295 206 250		Fork	1			●				
32		1295 206 249		Fork	1			●				
32	198.360	1295 206 255		Fork	1			●				
32		1295 206 254	50 00 289 743	Fork	1			●				
33		1313 312 002	50 00 289 797	Fork	1			●				
34	149.172	1295 312 018	50 00 289 796	Selector rod	1			●				
35	132.046	1296 312 042	50 00 289 800	Cylinder	1			●				
36	139.331	0750 112 034	50 00 289 801	Cap Collar D.25x38x14,2	1			●				
37	189.421	1296 312 053	50 01 838 900	Piston	1			●				
38		0750 112 089	50 00 289 803	Ring 53x63x16,2	1			●				
39		0737 006 095		Nut	1			●				
40		0750 132 032	50 00 289 804	Cylinder	1			●				
40		0750 132 033	50 01 831 943	Cylinder	1			●				
40	280.350	1295 212 008		Cylinder	1			●				
41	141.085	1296 334 004	50 00 289 841	Bronze Slide	2			●				
42	149.171	1312 234 002	50 01 824 950	Fork Lever	1			●				
43	139.331	0750 112 034	50 00 289 801	Cap Collar D.25x38x14,2	1			●				
44	189.422	1296 334 039	50 00 289 835	Piston	1			●				
45	132.047	1295 334 075	50 01 859 475	Cylinder	1			●				
46	198.339	1268 298 938		Spring Slide Set	1			●				
47	198.564	CEI 198564		Spring Slide Set	1			●				
48	198.842	1295 298 933		Spring Slide Set	1			●				
49	198.447	CEI 198447		Gear Set	1		ABC	●				
50	198.428	1295 298 960	50 01 849 894	Oil Seal Ring Kit	1			●				
51	198.427	1295 298 915	50 01 831 982	Gasket Kit	1			●				
52	198.856	CEI 198856		Synchronizer cone kit	1	Can repl. fig. 15		●				
53	135.128	CEI 135128		Saddle Plate	1	Use with fig. 54		●				
54	109.174	1296 333 050	50 01 848 259	Synchronizer Cone	1	Use with fig. 53		●				

Notes

Date

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Table

014 / B

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suitable to :

**Z.F.****EcoSplit II****From 16S150 to 16S220****Application**

	16S150 (1313)	16S220 (1312)		
<b>MERCEDES</b>				
<b>MAN</b>				
<b>IVECO</b>				
<b>RVI</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**Ratios**

	R.10,14-0,72 <b>A</b>	R.13,80-0,84 <b>B</b>	R.16,47-1,00 <b>C</b>		
<b>16S150</b>					
<b>16S220</b>					

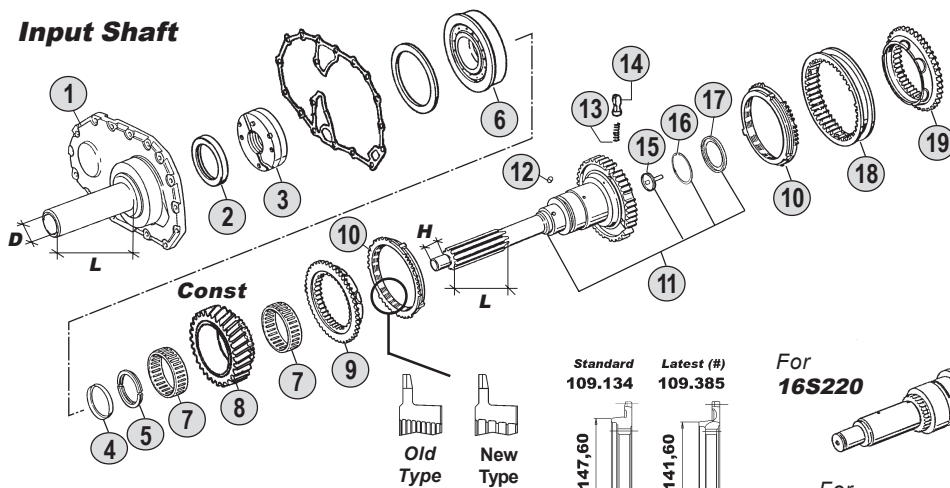
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**ECO II**From 16S150  
To 16S220

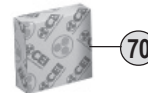
Suitable To : **ZF**

**16S150**

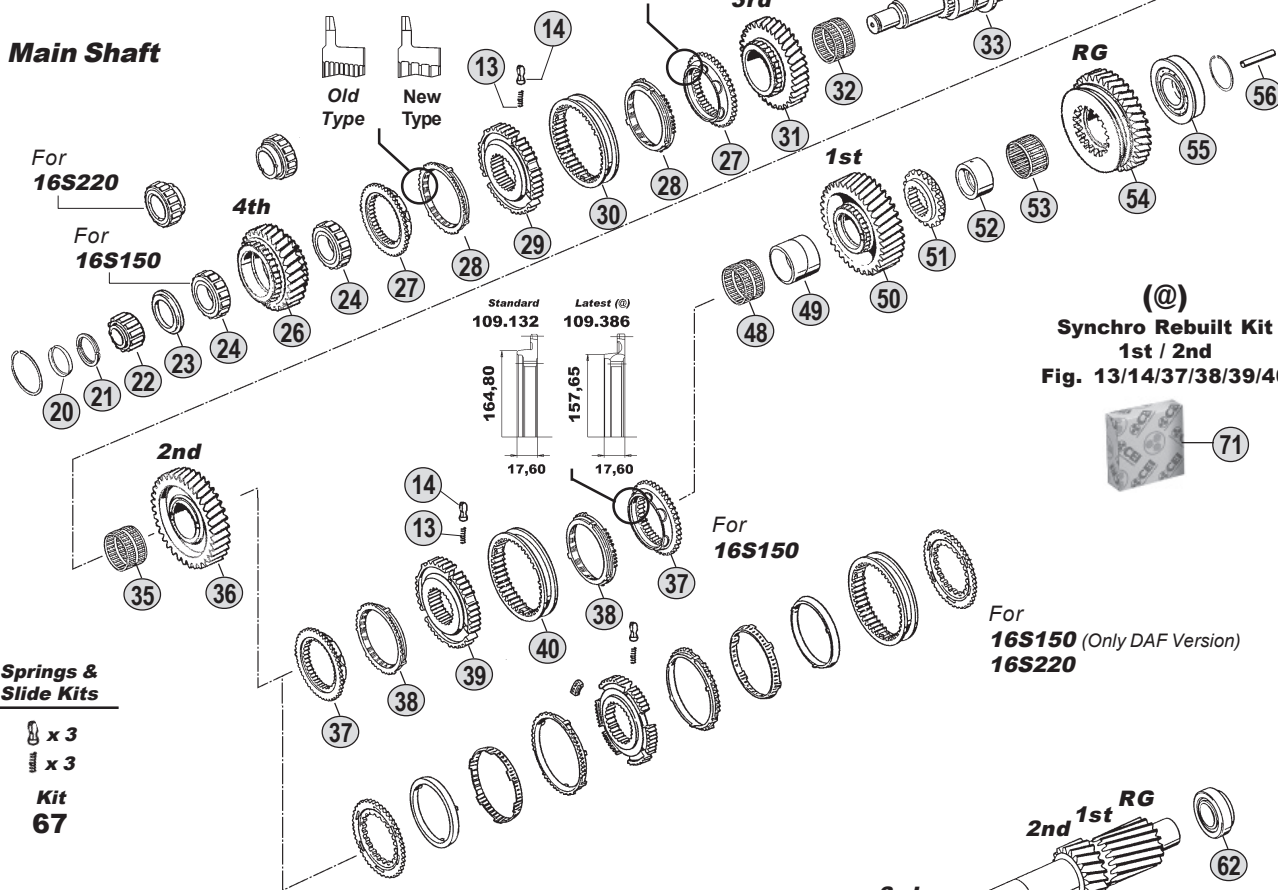
**Input Shaft**



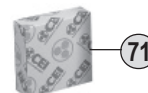
(#)  
**Synchro Rebuilt Kit**  
4th / 3rd  
Fig. 13/14/27/28/29/30



**Main Shaft**



(@)  
**Synchro Rebuilt Kit**  
1st / 2nd  
Fig. 13/14/37/38/39/40



**Springs & Slide Kits**

⌘ x 3  
⌘ x 3  
**Kit 67**

**Kits**

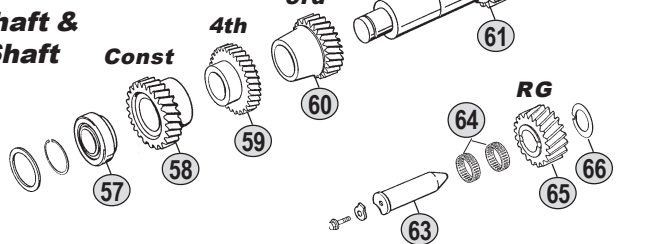


**Gasket Kit 69**



**Oil Seal Kit 68**

**Countershaft & Reverse Shaft**



**Ratios**

16S150 A:-- B: 13,80 - 0,84 C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	R.V.I. no.					16S150	16S150	16S150	16S150	16S150
1		1313 302 048	50 01 831 786	Front Cover	1	L=153-D=70	●					
2		0734 310 386	50 01 847 325	Oil Seal 55x75x8	1		●					
3	<b>280.348</b>	1295 202 041	50 01 831 784	Oil Pump	1		●					
4	169.754	0730 061 816	50 01 821 499	Securing Ring	1		●					
5		0730 106 168	50 01 831 747	Split Ring	1	S.4,30 mm	●					
5		0730 106 158		Split Ring	1	S.3,80 mm	●					
6	<b>130.306</b>	0750 117 431	50 01 831 668	Bearing D.75x150x30,50	1		●					
7	137.148	0750 115 310	50 01 831 791	Needle Cage D.93x101x25	1		●					
8	<b>145.557</b>	1313 302 036	50 01 831 790	Constant Gear 34 T	1		B	●				
8	145.525	1313 302 035		Constant Gear 30 T	1		C	●				
9	<b>109.134</b>	1312 304 027	50 01 831 793	Synchronizer Cone	1		●					
10	<b>119.119</b>	1297 304 402	50 01 831 795	Synchronizer Ring	2	Old Type	●					
10	<b>119.167</b>	1297 304 484	50 01 845 809	Synchronizer Ring	2	New Type	●					
11	102.241	1313 202 015	50 01 831 659	Input shaft	1		●					
12		0635 470 012	07 75 150 400	Pin	1		●					
13	<b>156.140</b>	0732 040 409	50 00 242 857	Spring D.6,50x23,50	3		●					
14	<b>160.189</b>	1297 304 436	50 00 289 398	Pressure Piece	3		●					
15		1312 302 095	50 01 831 660	Tube	1		●					
16		0630 502 027		Ring	1		●					
17		0501 320 435	50 01 859 927	Diaphragm	1		●					
18	<b>154.135</b>	1310 304 202	50 01 848 744	Sliding Sleeve	1		●					
19	<b>109.133</b>	1312 304 056	50 01 831 792	Synchronizer Cone	1		●					
20		0730 062 781	50 01 831 825	Ring	1		●					
21		0730 107 023	50 01 850 728	Split Ring	1	S.5,00 mm	●					
21		0730 107 019	50 01 831 824	Split Ring	1	S.4,60 mm	●					
22	<b>137.150</b>	0750 117 232	50 01 823 861	Roller Cage D.42x40,30	1		●					
23		1315 304 051	50 01 831 820	Ring	1	S.8,30 mm	●					
24	<b>137.156</b>	0750 118 198	50 01 831 817	Roller Cage D.67x101x32	1		●					
26	<b>146.476</b>	1313 304 005	50 01 831 819	Gear 4th Speed 30 T	1		B	●				
26	146.442	1296 304 131		Gear 4th Speed 34 T	1		C	●				
27	<b>109.134</b>	1312 304 027	50 01 831 793	Synchronizer Cone	2		●					
27	<b>109.385</b>	1316 304 159		Synchronizer Cone	2		(#)	●				
28	<b>119.119</b>	1297 304 402	50 01 831 795	Synchronizer Ring	2	Old Type	●					
28	<b>119.167</b>	1297 304 484	50 01 845 809	Synchronizer Ring	2	New Type	●					
28	<b>119.217</b>	1316 304 149		Synchronizer Ring	2		(#)	●				
29	<b>157.180</b>	1312 304 052	50 01 831 818	Synchronizer Hub	1		●					
29	<b>157.227</b>	1316 304 162		Synchronizer Hub	1		(#)	●				
30	<b>154.135</b>	1310 304 202	50 01 848 744	Sliding Sleeve	1		●					
30	<b>154.357</b>	1315 304 135		Sliding Sleeve	1		(#)	●				
31	<b>145.496</b>	1313 304 080	50 01 831 816	Gear 3rd Speed 32 T	1		B	●				
31	145.526	1313 304 081		Gear 3rd Speed 34 T	1		C	●				
32	<b>137.137</b>	0735 321 087	50 01 831 801	Needle Cage D.92x100x53	1		●					
33	<b>103.135</b>	1315 304 130	50 00 294 040	Main Shaft	1		●					
35	<b>137.137</b>	0735 321 087	50 01 831 801	Needle Cage D.92x100x53	1		●					
36	145.502	1313 304 078	50 01 831 802	Gear 2nd Speed 37 T	1		B	●				

## Notes

- (#) Latest Synchro generation. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 70  
 (ⓐ) Latest Synchro generation. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 71

## Date

03 / 2006

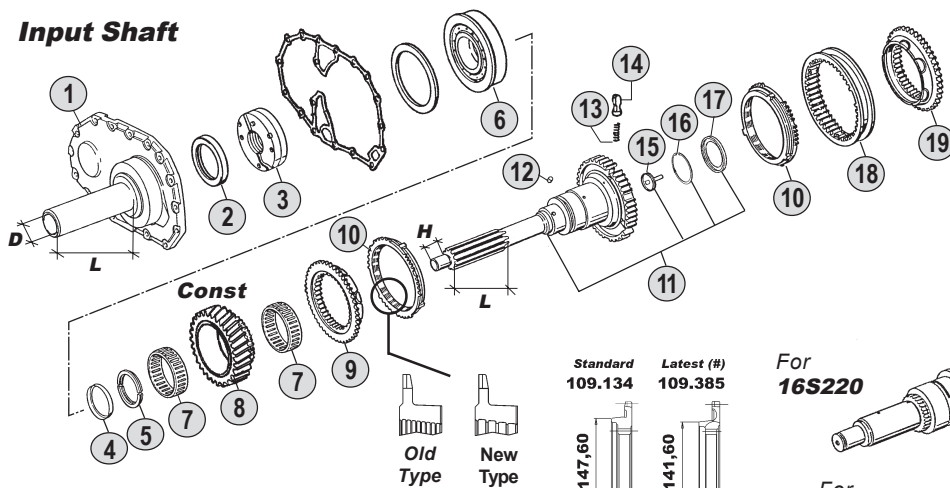
## Table

015 / A

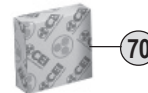
Suitable To : **ZF**

**16S150**

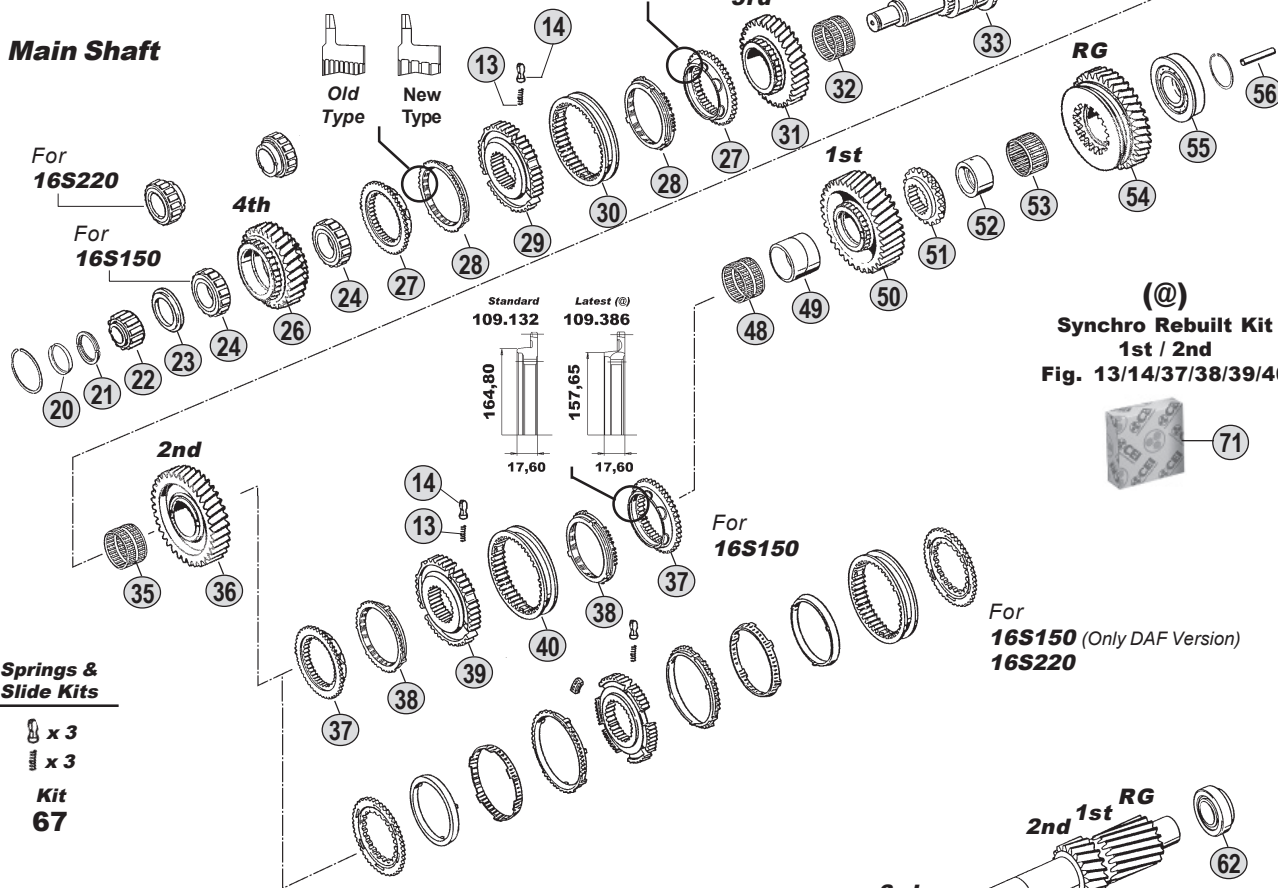
**Input Shaft**



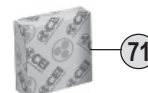
**(#)**  
Synchro Rebuilt Kit  
4th / 3rd  
Fig. 13/14/27/28/29/30



**Main Shaft**



**(@)**  
Synchro Rebuilt Kit  
1st / 2nd  
Fig. 13/14/37/38/39/40



**Springs & Slide Kits**

⌘ x 3  
⌘ x 3  
**Kit 67**

**Kits**

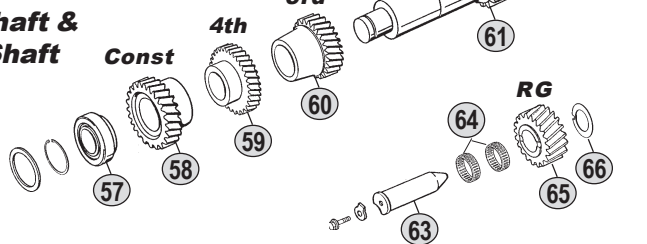


**Gasket Kit 69**



**Oil Seal Kit 68**

**Countershaft & Reverse Shaft**



**Ratios**

16S150 A:-- B: 13,80 - 0,84 C: 16,47 - 1,00

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.										
36	145.527	1313 304 077		Gear 2nd Speed 38 T	1	C	●					
37	109.132	1313 304 009	50 01 831 807	Synchronizer Cone	2		●					
37	109.386	1316 304 156		Synchronizer Cone	2	(@)	●					
38	119.122	1297 304 401	50 01 831 806	Synchronizer Ring	2	Old Type	●					
38	119.166	1297 304 485	50 01 853 567	Synchronizer Ring	2	New Type	●					
38	119.218	1316 304 150		Synchronizer Ring	2	(@)	●					
39	157.189	1313 304 008	50 01 831 803	Synchronizer Hub	1		●					
39	157.228	1316 304 163		Synchronizer Hub	1	(@)	●					
40	154.202	1316 304 078	50 01 854 408	Sliding Sleeve	1		●					
40	154.358	1315 304 136		Sliding Sleeve	1	(@)	●					
48	137.160	0750 115 325	50 01 831 809	Needle Cage D.96x104x55	1		●					
49	117.294	1313 304 038	50 01 831 808	Bush	1		●					
50	145.508	1313 304 039	50 01 831 810	Gear 1st Speed 44 T	1	B	●					
50	145.528	1313 304 070		Gear 1st Speed	1	C	●					
51	109.177	1313 304 037	50 01 831 811	Engaging Ring	1		●					
52	117.293	1315 304 132	50 01 851 029	Bush	1		●					
53	137.162	0750 115 324	50 01 831 813	Roller Cage D.90x98x41	1		●					
54	147.137	1313 304 042	50 01 831 815	Reverse Gear 39 T	1	B	●					
54	147.147	1313 304 041		Reverse Gear 38 T	1	C	●					
55	130.309	0750 117 677	50 01 842 929	Bearing D.80x130x36	1		●					
56	188.209	1312 304 150	50 01 823 850	Oil Tube	1		●					
57	130.242	0750 117 010	50 00 808 760	Bearing D.50,80x100x35	1		●					
58	146.475	1313 303 004	50 01 831 798	Constant Gear 37 T	1	B	●					
58	146.443	1296 303 037		Constant Gear 39 T	1	C	●					
59	146.414	1313 303 003	50 01 831 799	Gear 4th Speed 39 T	1	B	●					
59	146.444	1296 303 036		Gear 4th Speed 37 T	1	C	●					
60	146.420	1313 303 002	50 01 831 797	Gear 3rd Speed 28 T	1	B	●					
60	146.445	1296 303 035		Gear 3rd Speed 26 T	1	C	●					
61	105.106	1313 303 010	50 01 831 805	Countershaft 19-23 T	1	B	●					
61	105.113	1313 303 011		Countershaft 17-20 T	1	C	●					
62	130.307	0750 117 011	50 01 831 796	Bearing D.50,8x104,7x39,6	1		●					
63	107.108	1295 305 056	50 00 289 670	Reverse Gear Pin	1		●					
64	137.007	0750 115 011	50 00 287 806	Needle Cage D.45x53x21	2		●					
65	147.132	1313 305 002	50 01 831 658	Reverse Gear 21 T	1	B	●					
65	147.148	1313 305 001		Reverse Gear 24 T	1	C	●					
66	169.234	0730 150 064	50 00 240 306	Thrust Washer	1		●					
67	198.843	CEI 198843		Spring Slide Set	1		●					
68		1312 298 902	50 01 831 979	Oil Seal Kit	1		●					
69	198.427	1295 298 915	50 01 831 982	Gasket Kit	1		●					
70	298.021	1315 298 061		Synchro kit 4th/3rd Speed	1	(#)	●					
71	298.020	1315 298 060		Synchro kit 1st/2nd Speed	1	(@)	●					

## Notes

- (#) Latest Synchro generation. DO NOT MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 70  
 (@) Latest Synchro generation. DO NOT MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 71

## Date

03 / 2006

## Table

015 / A

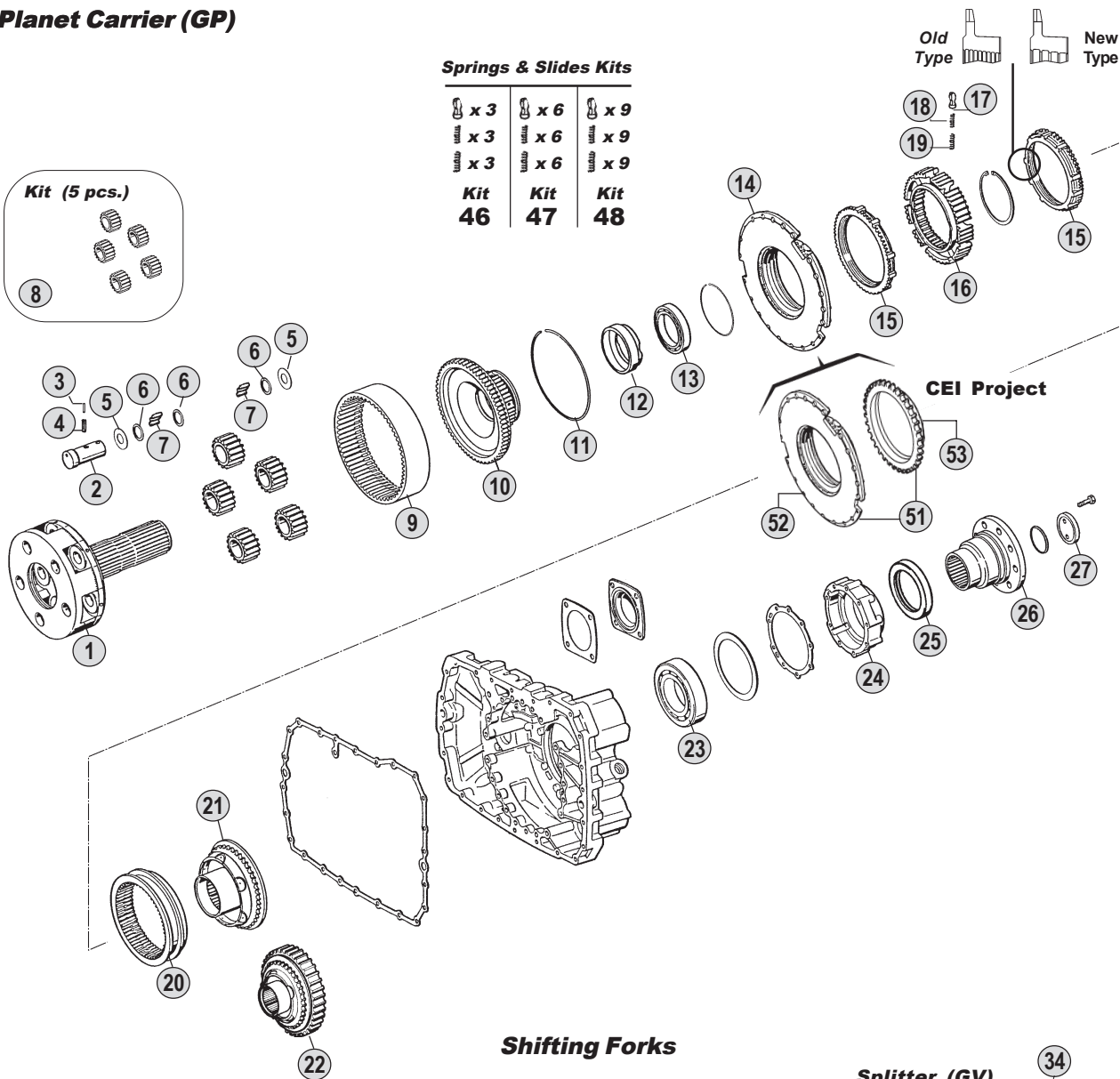
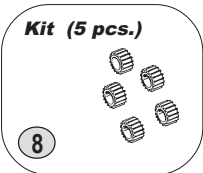
Suitable To : **ZF**

**Planet Carrier (GP)**

**Springs & Slides Kits**

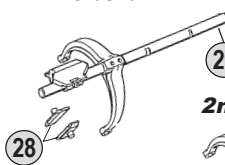
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

Old Type New Type

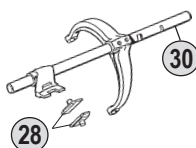


**Shifting Forks**

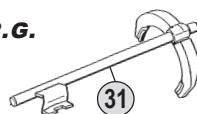
4th/3rd



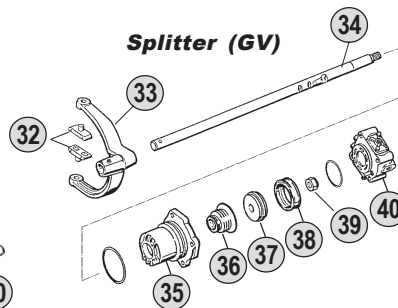
2nd/1st



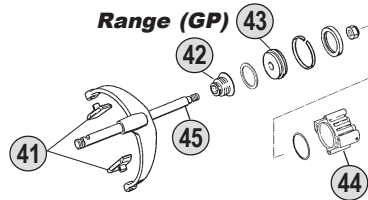
R.G.



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

16S150 A:-- B: 13,80 - 0,84 C: 16,47 - 1,00

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Fig.	O.E.M. Reference			Description	Q.ty	Note	Ratio				
	CEI no.	ZF no.	R.V.I. no.								
1	190.393	1296 232 002	50 01 831 856	Planetary Carrier	1		●				
2	107.164	1296 332 005	50 01 831 862	Planet Shaft	5		●				
3	160.195	0631 329 167	50 01 831 867	Lock Pin D.3x26	5		●				
4	160.194	0631 329 051	77 01 014 081	Lock Pin D.5x26	5		●				
5	169.759	0501 308 981	50 01 831 859	Thrust Washer	10		●				
6	169.744	0730 107 168	50 01 831 858	Spacer Ring	15		●				
7	171.046	0735 470 164	50 01 831 861	Roller D.10x15	140		●				
8	198.800	1313 232 003	50 01 831 857	Planetary Gear Set (5 pcs)	1		●				
9	123.208	1295 332 086	50 01 831 869	Crown Gear 86 T	1		●				
10	150.133	1313 332 020	50 01 831 868	Flange Gear 86 T	1		●				
11	111.198	0730 505 056	50 01 821 642	Locking Wire	1		●				
12		1297 332 002		Ring	1		●				
13	130.310	0750 116 165	50 01 821 522	Bearing D.80x110x16	1		●				
14	198.358	1296 233 006	50 00 289 822	Synchronizer Cone	1		●				
15	119.085	1296 333 022	50 00 289 824	Synchronizer Ring	2	Old Type	●				
15	119.172	1296 333 045	50 01 846 736	Synchronizer Ring	2	New Type	●				
16	157.182	1313 333 001	50 01 831 875	Synchronizer Hub	1		●				
17	160.116	1240 304 278	50 00 255 276	Pressure Piece	9		●				
18	156.036	0732 040 386	50 00 255 277	Inner Spring De.3x34	9		●				
19	156.037	0732 040 385	77 01 007 805	Outer Spring De.6x34	9		●				
20	154.098	1296 333 023	50 00 289 825	Sliding Sleeve	1		●				
21	198.374	1313 233 001	50 01 821 639	Synchronizer Cone (38 Spl.)	1		●				
22		1297 333 118		Synchronizer Cone	1	With Retarder	●				
23	130.245	0750 116 002	50 01 858 080	Bearing D.90x160x30	1		●				
24	128.098	1315 301 220	50 01 831 854	Cover	1		●				
25		0750 111 341	50 00 289 673	Oil Seal 105x130x12	1		●				
26		1313 338 002		Output Flange	1	D.180-4 H.	●				
26		1313 338 011	50 01 831 874	Output Flange	1	D.204-4 H.	●				
27	188.077	1295 332 051	50 00 289 820	Stop Washer	1		●				
28	141.163	1297 306 120	50 01 831 828	Slide	2		●				
29		1313 206 002	50 01 831 829	Fork	1		●				
29		1313 206 005		Fork	1		●				
29		1313 206 011		Fork	1	(4)	●				
30		1313 206 001	50 01 831 827	Fork	1		●				
30		1313 206 004		Fork	1		●				
30		1313 206 031		Fork	1	(4)	●				
31		1313 206 015	50 01 831 830	Fork	1		●				
31		1313 206 016		Fork	1		●				
31		1313 206 026		Fork	1	(4)	●				
32	141.163	1297 306 120	50 01 831 828	Slide	2		●				
33		1313 312 002	50 00 289 797	Fork	1		●				
34		1312 312 002	50 01 831 840	Rod	1		●				
35	132.046	1296 312 042	50 00 289 800	Cylinder	1		●				
36	139.331	0750 112 034	50 00 289 801	Cap Collar D.25x38x14,2	1		●				
37		1312 312 003	50 01 831 942	Piston	1		●				

## Notes

- (4) Only Pneumatic Version  
 (5) To be coupled Together  
 (6) To be coupled Together

## Date

03 / 2006

## Table

015 / B

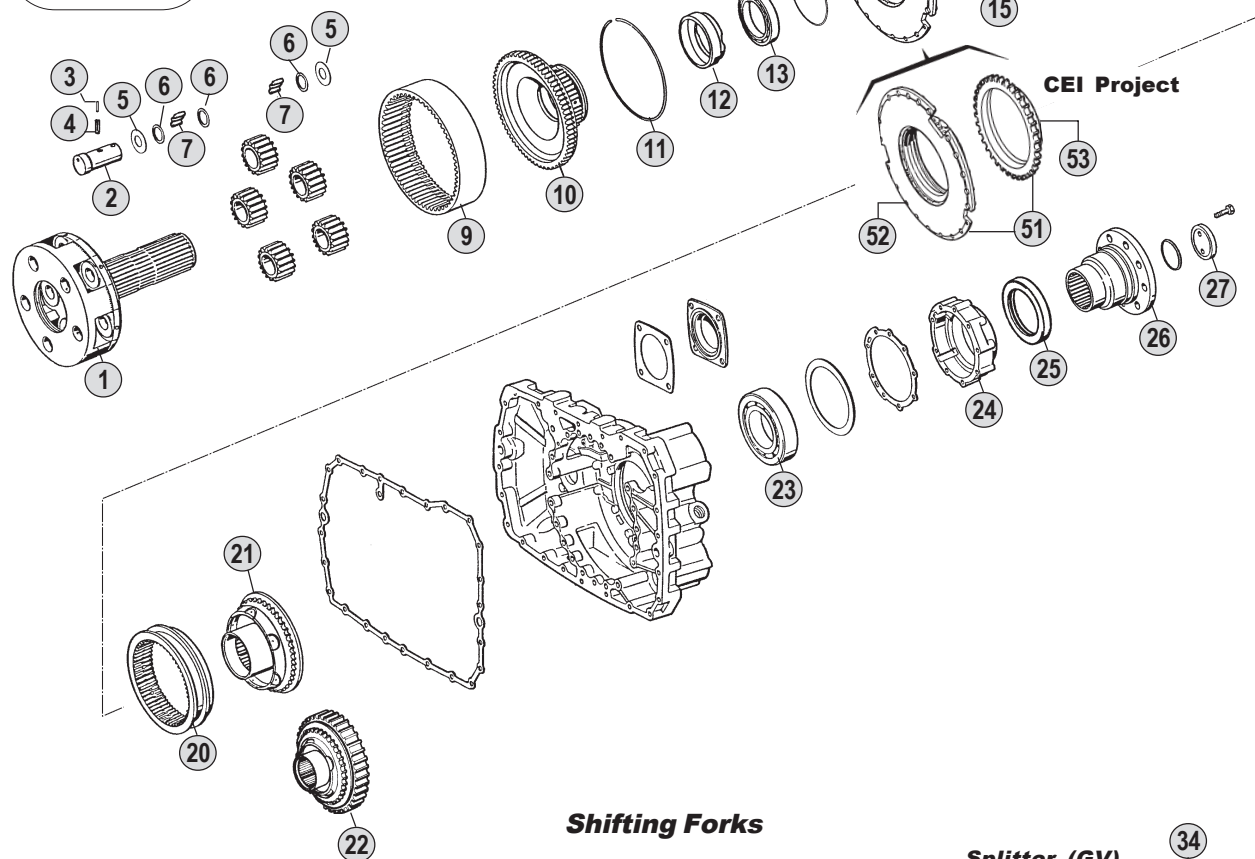
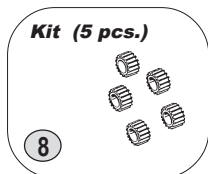
Suitable To : **ZF**

**Planet Carrier (GP)**

**Springs & Slides Kits**

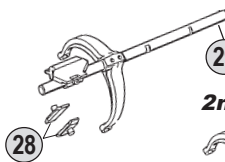
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

Old Type New Type

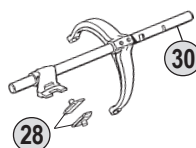


**Shifting Forks**

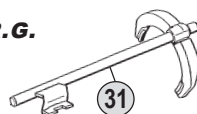
4th/3rd



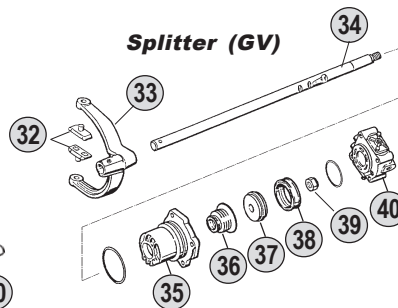
2nd/1st



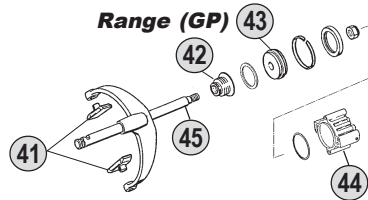
R.G.



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

16S150 A:-- B: 13,80 - 0,84 C: 16,47 - 1,00

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.					R.V.I. no.						
37		1312 312 015		Piston	1	(4)	●						
38		0750 112 089	50 00 289 803	Ring 53x63x16,2	1		●						
38		0750 112 048		Ring 53x63x5	1	(4)	●						
39		0737 006 095		Nut	1		●						
40		0750 132 032	50 00 289 804	Cylinder	1		●						
40		0750 132 033	50 01 831 943	Cylinder	1		●						
41	<b>141.085</b>	1296 334 004	50 00 289 841	Bronze Slide	2		●						
42	139.331	0750 112 034	50 00 289 801	Cap Collar D.25x38x14,2	1		●						
43	189.422	1296 334 039	50 00 289 835	Piston	1	(5)	●						
43		1297 334 056		Piston	1	(6)	●						
44	<b>132.047</b>	1295 334 075	50 01 859 475	Cylinder	1	(5)	●						
44		1297 334 055		Cylinder	1	(6)	●						
45		1313 234 011	50 01 831 876	Fork	1		●						
45		1313 234 012		Fork	1	(4)	●						
46	<b>198.339</b>	1268 298 938		Spring Slide Set	1		●						
47	<b>198.564</b>	CEI 198564		Spring Slide Set	1		●						
48	<b>198.842</b>	1295 298 933		Spring Slide Set	1		●						
49		1312 298 902	50 01 831 979	Oil Seal Kit	1		●						
50	<b>198.427</b>	1295 298 915	50 01 831 982	Gasket Kit	1		●						
51	<b>198.856</b>	CEI 198856		Synchronizer cone kit	1	Can repl. fig. 14	●						
52	<b>135.128</b>	CEI 135128		Saddle Plate	1	Use with fig. 53	●						
53	<b>109.174</b>	1296 333 050	50 01 848 259	Synchronizer Cone	1	Use with fig. 52	●						

## Notes

- (4) Only Pneumatic Version  
 (5) To be coupled Together  
 (6) To be coupled Together

## Date

03 / 2006

## Table

015 / B

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suitable to :

**Z.F.****EcoSplit III****From 16S151 to 16S221****Planetary Gear with STRAIGHT TEETH****Application**

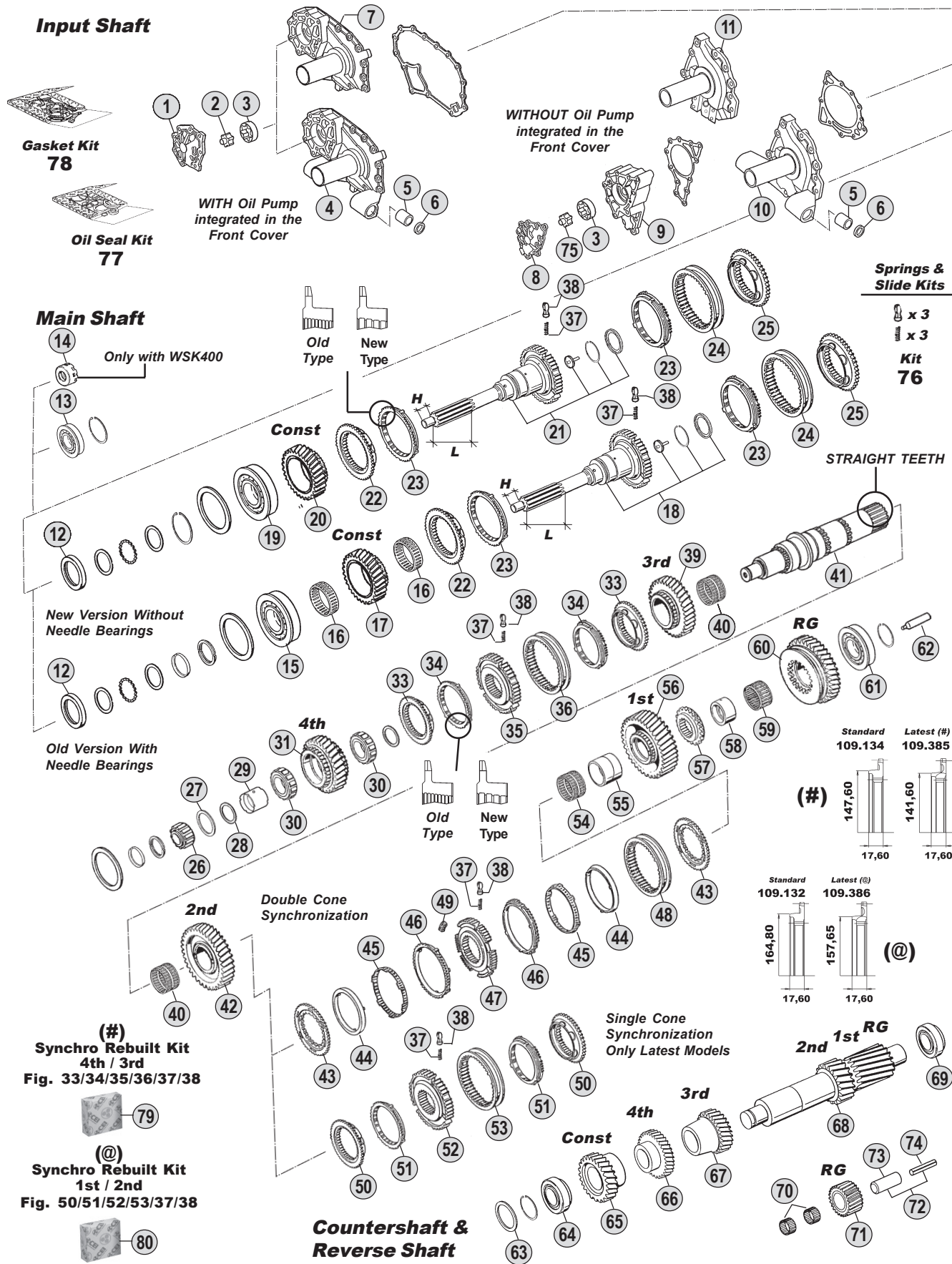
	16S151 (1315)	16S221 (1316)		
<b>MERCEDES</b>				
<b>M.A.N.</b>				
<b>IVECO</b>				
<b>R.V.I.</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**Ratios**

	R.13,80-0,84 <b>A</b>	R.13,85-0,84 <b>B</b>	R.13,86-0,84 <b>C</b>	R.16,47-1,00 <b>D</b>	R.16,53-1,00 <b>E</b>
<b>16S151</b>					
<b>16S221</b>					

**ECO III**  
 From 16S151  
 To 16S221

Suitable To : **ZF**



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**Ratios**

<b>16S151</b>	<b>A:</b> 13,80-0,84	<b>B:</b> 13,85 - 0,84	<b>C:</b> 13,86 - 0,84	<b>D:</b> 16,47 - 1,00	<b>E:</b> 16,53-1,00
<b>16S221</b>	<b>A:</b> 13,80-0,84	<b>B:</b> --	<b>C:</b> 13,86 - 0,84	<b>D:</b> 16,47 - 1,00	<b>E:</b> -

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	R.V.I. no.										
1		1315 302 013		Cover	1			●	●				
2		1315 202 014		Rotor	1			●	●				
3		1315 303 027	50 01 842 921	Oil Pump Housing	1			●	●				
4		1315 302 057		Front Cover	1			●	●				
5		0730 260 398	50 01 842 901	Bush	4			●	●				
6		0501 312 738	50 01 842 902	Oil Seal 30x37x4	4			●	●				
7		1315 302 045		Front Cover	1			●	●				
7		1315 302 047		Front Cover	1			●	●				
8		1315 302 120	50 01 842 922	Cover	1			●	●				
9		1315 302 121	50 01 842 919	Housing	1			●	●				
10		1315 202 055		Front Cover	1			●	●				
10		1315 202 058	50 01 848 212	Front Cover	1			●	●				
10		1315 202 061		Front Cover	1			●	●				
10		1315 202 065	50 01 853 290	Front Cover	1			●	●				
10		1315 202 060	50 01 850 719	Front Cover	1	With WSK400		●	●				
11		1315 302 075		Front Cover	1			●	●				
11		1315 302 136	50 01 851 531	Front Cover	1			●	●				
12		0734 310 386	50 01 847 325	Oil Seal 55x75x8	1			●	●				
12		0734 310 104	50 00 821 194	Oil Seal 52x68x8	1	(1)		●	●				
12		0734 319 514	50 01 843 315	Oil Seal 52x72x8	1	(2)		●	●				
13		0635 450 098	50 00 293 041	Bearing 52x90x33	1	(2)		●	●				
14		4130 309 063		Disk	1	(1)		●	●				
15	<b>130.306</b>	0750 117 431	50 01 831 668	Bearing D.75x150x30,50	1	(3-4-5)		●	●				
16	<b>137.133</b>	0735 321 437	50 01 843 169	Needle Cage D.93x101x25	2	(3)		●	●				
16	<b>137.148</b>	0750 115 310	50 01 831 791	Needle Cage D.93x101x25	2	(4)		●	●				
16	<b>137.134</b>	0735 321 438		Needle Cage D.93x101x32,50	2	(5)		●	●				
17	<b>145.524</b>	1315 302 008	50 01 842 880	Constant Gear 34 T	1	(3)	B	●	●				
17	<b>145.451</b>	1315 302 007		Constant Gear 30 T	1	(4)	DE	●	●				
17	<b>145.472</b>	1316 302 001		Constant Gear 30 T	1	(5)	D	●	●				
18	<b>190.309</b>	1315 202 022	50 01 842 879	Input Shaft	1	L=125 H=32		●	●				
18	<b>190.296</b>	1315 202 012		Input Shaft	1			●	●				
18	<b>190.297</b>	1316 202 005		Input Shaft	1			●	●				
19	<b>130.518</b>	0750 117 732	50 01 848 210	Bearing D.85x150x30,50	1			●	●				
20	<b>145.513</b>	1315 302 173	50 01 855 526	Constant Gear 34 T	1		A	●	●				
20	<b>145.556</b>	1315 302 158	50 01 848 208	Constant Gear 35 T	1		C	●	●				
20	<b>145.553</b>	1315 302 157	50 01 856 589	Constant Gear 30 T	1		D	●	●				
20	<b>145.487</b>	1316 302 065		Constant Gear 34 T	1		A	●	●				
20	<b>145.554</b>	1316 302 067	50 01 850 725	Constant Gear 35 T	1		C	●	●				
20	<b>145.483</b>	1316 302 066	50 01 848 728	Constant Gear 30 T	1		D	●	●				
21	<b>190.304</b>	1315 202 037	50 01 848 274	Input Shaft	1	L=125 H=31,5		●	●				
21	<b>190.315</b>	1315 202 040		Input Shaft	1	L=102 H=32		●	●				
21		1315 202 048		Input Shaft	1	With WSK400		●	●				
21	<b>190.317</b>	1315 221 002	50 01 848 275	Input Shaft	1	NMV221 (Clutch PTO)		●	●				
21	<b>190.303</b>	1316 202 025	50 01 853 606	Input Shaft	1	L=134 H=32		●	●				
21	<b>190.300</b>	1316 202 026		Input Shaft	1			●	●				

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model **WITH** integrated Oil Pump  
 (10) For model **WITHOUT** integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc. Fig. 74 (\*) New Models only. **DO NO MIX** Single Cone S. with Double Cone S.  
 (14) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (15) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

Date

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Table

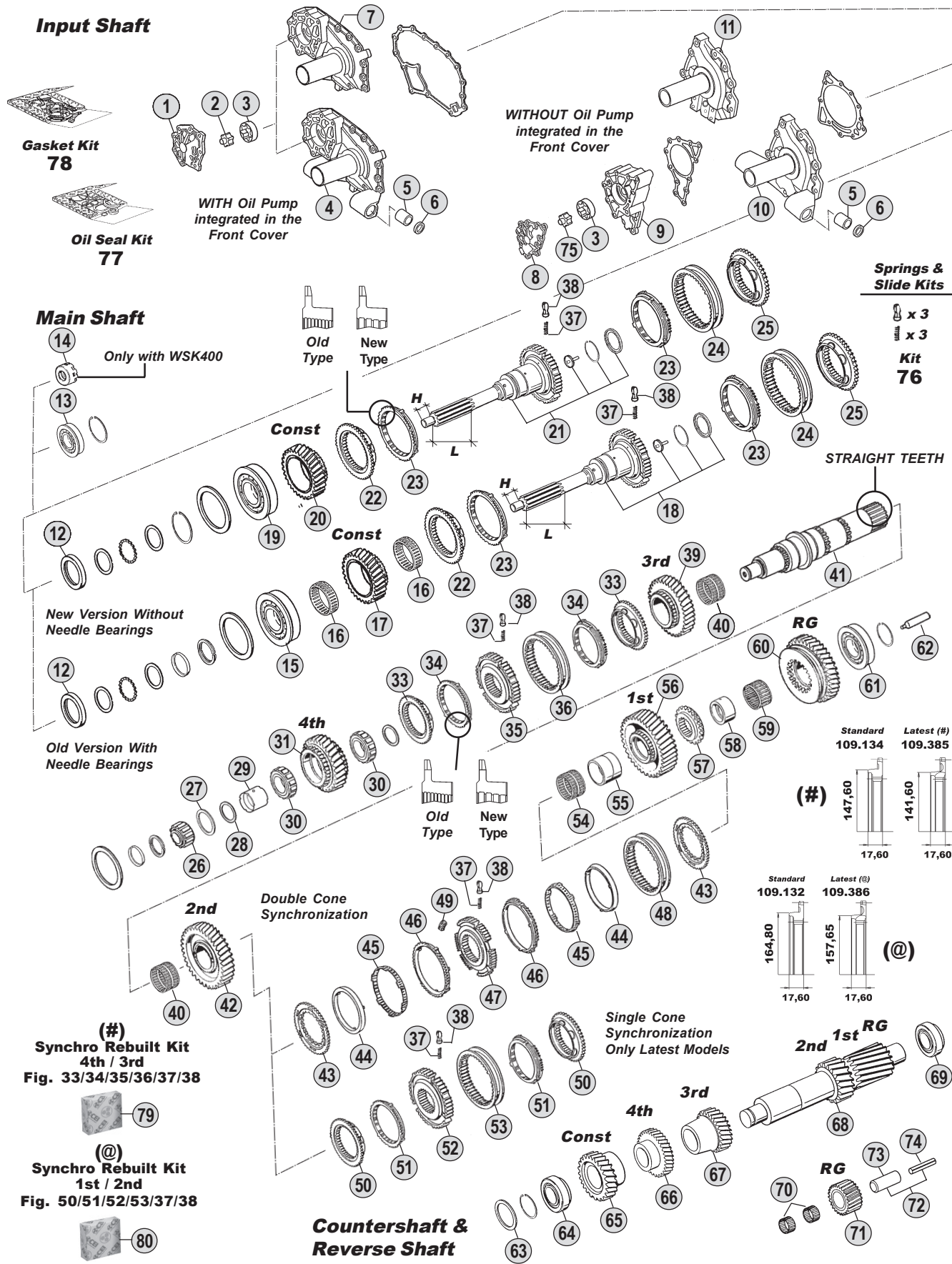
016 / A

ECO III

From 16S151  
To 16S221

Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -

## O.E.M. Reference

Fig.	CEI no.	ZF no.	R.V.I. no.	Description	Q.ty	Note	Ratio						
21	190.310	1316 202 033	50 01 850 724	Input Shaft	1	L=63H=46,5 / WSK400		●					
21		1316 202 038	50 01 848 727	Input Shaft	1			●					
21		1316 221 017		Input Shaft	1	NMV221 (Clutch PTO)		●					
22	109.134	1312 304 027	50 01 831 793	Synchronizer Cone	1			●	●				
23	119.119	1297 304 402	50 01 831 795	Synchronizer Ring	2	Old Type		●	●				
23	119.167	1297 304 484	50 01 845 809	Synchronizer Ring	2	New Type		●	●				
24	154.135	1310 304 202	50 01 848 744	Sliding Sleeve	1			●	●				
25	109.133	1312 304 056	50 01 831 792	Synchronizer Cone	1			●	●				
26	137.150	0750 117 232	50 01 823 861	Roller Cage D.42x40,30	1			●	●				
27		1315 304 048	50 01 854 418	Ring	1	S.8,00 mm		●	●				
27		1315 304 043	50 01 842 940	Ring	1	S.7,50 mm		●	●				
28	169.776	0750 101 158	50 01 851 626	Thrust Washer 81,5x5	1	(6)		●	●				
29	117.321	0750 119 125	50 01 851 627	Bush D.67x77x54,1	1	(6)		●					
29	117.320	0750 119 124	50 01 853 233	Bush D.67x77x66,10	1	(6)			●				
30	137.164	0750 115 534	50 01 851 628	Roller Cage D.77x101x29	2	(6)		●					
30	137.156	0750 118 198	50 01 831 817	Roller Cage D.67x101x32	2	(3-4)		●					
30	137.136	0750 115 531	50 01 853 234	Roller Cage D.77x101x29	2	(6)			●				
30		0750 118 258	50 01 848 864	Roller Cage D.67x101x38	2	(5)			●				
31	146.431	1315 304 017	50 01 842 938	Gear 4th Speed 30 T	1		AB	●					
31	146.320	1315 304 089	50 01 848 238	Gear 4th Speed 32 T	1		CDE	●					
31	145.729	1315 304 010		Gear 4th Speed	1	Old (7)	D	●					
31	146.410	1316 304 007		Gear 4th Speed 30 T	1		A		●				
31	146.401	1316 304 103	50 01 848 865	Gear 4th Speed 32 T	1		CD		●				
31	145.730	1316 304 006		Gear 4th Speed	1	Old (8)	D		●				
33	109.134	1312 304 027	50 01 831 793	Synchronizer Cone	2			●	●				
33	109.385	1316 304 159		Synchronizer Cone	2		(#)	●	●				
34	119.119	1297 304 402	50 01 831 795	Synchronizer Ring	2	Old Type		●	●				
34	119.167	1297 304 484	50 01 845 809	Synchronizer Ring	2	New Type		●	●				
34	119.217	1316 304 149		Synchronizer Ring	2		(#)	●	●				
35	157.180	1312 304 052	50 01 831 818	Synchronizer Hub	1			●	●				
35	157.227	1316 304 162		Synchronizer Hub	1		(#)	●	●				
36	154.135	1310 304 202	50 01 848 744	Sliding Sleeve	1			●	●				
36	154.357	1315 304 135		Sliding Sleeve	1		(#)	●	●				
37	156.140	0732 040 409	50 00 242 857	Spring D.6,50x23,50	3			●	●				
38	160.189	1297 304 436	50 00 289 398	Pressure Piece	3			●	●				
39	145.514	1315 304 028	50 01 842 937	Gear 3rd Speed 32 T	1		AB	●					
39	145.456	1315 304 027	50 01 848 236	Gear 3rd Speed 34 T	1		CDE	●					
39	145.488	1316 304 009		Gear 3rd Speed 32 T	1		A		●				
39	145.473	1316 304 008	50 01 848 863	Gear 3rd Speed 34 T	1		CD		●				
40	137.137	0735 321 087	50 01 831 801	Needle Cage D.92x100x53	2			●					
40	137.138	0750 115 303	50 01 848 858	Needle Cage D.92x100x63	2				●				
41	103.135	1315 304 130	50 00 294 040	Main Shaft	1		ACD	●					
41	103.127	1315 304 029		Main Shaft	1		BE	●					
41	103.128	1316 304 130	50 01 854 334	Main Shaft	1				●				
42	145.455	1315 304 026	50 01 842 924	Gear 2nd Speed 37 T	1		AB	●					

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model WITH integrated Oil Pump  
 (10) For model WITHOUT integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc. Fig. 74 (\*) New Models only. Do NO MIX Single Cone S. with Double Cone S.  
 (#) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 79  
 (@) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 79

## Date

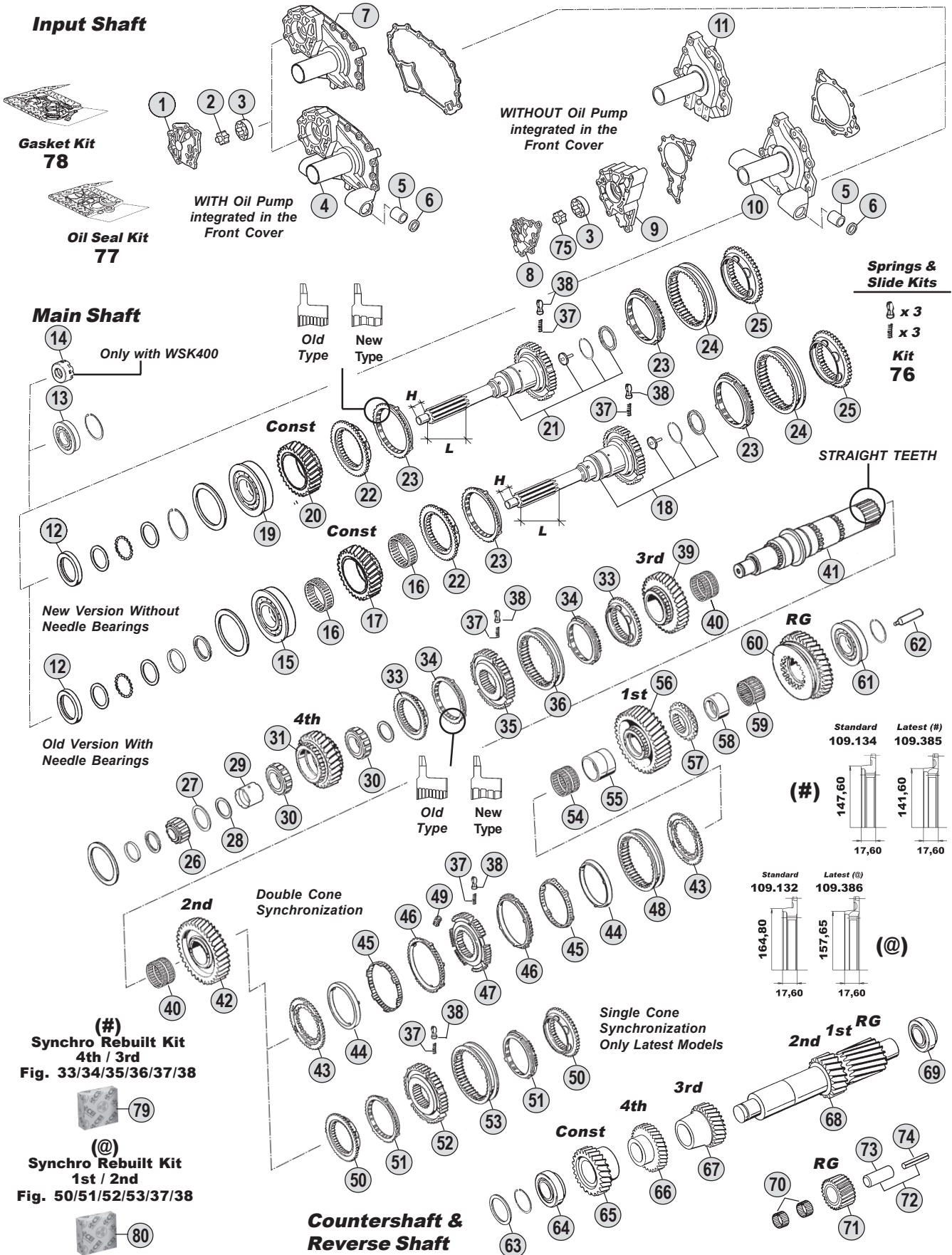
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## Table

016 / A

Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

<b>16S151</b>	<b>A:</b> 13,80-0,84	<b>B:</b> 13,85 - 0,84	<b>C:</b> 13,86 - 0,84	<b>D:</b> 16,47 - 1,00	<b>E:</b> 16,53-1,00
<b>16S221</b>	<b>A:</b> 13,80-0,84	<b>B:</b> --	<b>C:</b> 13,86 - 0,84	<b>D:</b> 16,47 - 1,00	<b>E:</b> -





Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	R.V.I. no.					16S151 (1315)	16S221 (1316)					
42	145.454	1315 304 025	50 01 848 221	Gear 2nd Speed 38 T	1		CDE	●						
42	145.515	1316 304 003		Gear 2nd Speed 37 T	1		A		●					
42	145.474	1316 304 002	50 01 848 791	Gear 2nd Speed 38 T	1		CD		●					
43	109.176	1312 304 106	50 01 832 906	Synchronizer Cone	2			●	●					
44	119.152	1268 304 424	50 01 832 907	Intermediate Ring	2			●	●					
45	119.153	1268 304 494	50 01 849 668	Intermediate Cone	2			●	●					
46	119.144	1268 304 525	50 01 832 976	Synchronizer Ring	2			●	●					
47	157.181	1312 304 158	50 01 842 925	Synchronizer Hub	1			●	●					
48	154.190	1310 304 175	50 01 847 344	Sliding Sleeve	1			●	●					
49	156.176	1312 304 159	50 01 832 974	Pad	3			●	●					
50	109.132	1313 304 009	50 01 831 807	Synchronizer Cone	2	(*)		●	●					
50	109.386	1316 304 156		Synchronizer Cone	2		(@)	●	●					
51	119.122	1297 304 401	50 01 831 806	Synchronizer Ring	2	Old Type (*)		●	●					
51	119.166	1297 304 485	50 01 853 567	Synchronizer Ring	2	New Type (*)		●	●					
51	119.218	1316 304 150		Synchronizer Ring	2		(@)	●	●					
52	157.189	1313 304 008	50 01 831 803	Synchronizer Hub	1	(*)		●	●					
52	157.228	1316 304 163		Synchronizer Hub	1		(@)	●	●					
53	154.202	1316 304 078	50 01 854 408	Sliding Sleeve	1	(*)		●	●					
53	154.358	1315 304 136		Sliding Sleeve	1		(@)	●	●					
54	137.160	0750 115 325	50 01 831 809	Needle Cage D.96x104x55	1			●						
54	137.151	0750 115 327	50 01 848 818	Needle Cage D.96x104x72	1				●					
55	117.294	1313 304 038	50 01 831 808	Bush	1			●						
55	117.310	1312 304 084	50 01 848 815	Bush D.85x96x72	1				●					
56	145.453	1315 304 014	50 01 842 926	Gear 1st Speed 44 T	1		AB	●						
56	145.452	1315 304 004	50 01 848 226	Gear 1st Speed 47 T	1		CDE	●						
56	145.522	1316 304 013		Gear 1st Speed 44 T	1		A		●					
56	145.475	1316 304 010	50 01 848 819	Gear 1st Speed 47 T	1		CD		●					
57	109.144	1315 304 018	50 01 842 927	Engaging Ring	1			●						
57	109.163	1312 304 124	50 01 848 822	Engaging Ring	1				●					
58	117.293	1315 304 132	50 01 851 029	Bush	1			●						
58	117.311	1316 304 133	50 01 854 361	Bush D.80x90x50	1				●					
59	137.162	0750 115 324	50 01 831 813	Roller Cage D.90x98x41	1			●						
59	137.140	0750 115 326	50 01 848 824	Roller Cage D.90x98x50	1				●					
60	147.124	1315 304 013	50 01 842 928	Reverse Gear 42 T	1		AB	●						
60	147.123	1315 304 006	50 01 848 227	Reverse Gear 44 T	1		CDE	●						
60	147.144	1316 304 015		Reverse Gear 42 T	1		A		●					
60	147.128	1316 304 012	50 01 848 825	Reverse Gear 44 T	1		CD		●					
61	130.309	0750 117 677	50 01 842 929	Bearing D.80x130x36	1			●						
61	130.304	0750 117 678	50 01 848 849	Bearing D.80x140x36,50	1				●					
62	188.209	1312 304 150	50 01 823 850	Oil Tube	1			●	●					
63		0730 102 099	77 01 014 622	Washer	1	S.3,00 mm (9)		●						
63		0730 102 072	77 01 014 642	Washer	1	S.2,00 mm (9)		●						
63		0730 106 917	50 01 842 904	Washer	1	S.3,00 mm (10)		●						
63		0730 101 471	50 01 853 305	Washer	1	S.2,00 mm (10)		●						
63		0730 106 917	50 01 842 904	Washer	1	S.3,00 mm		●						

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model **WITH** integrated Oil Pump  
 (10) For model **WITHOUT** integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc. Fig. 74  
 (\*) New Models only. **DO NO MIX** Single Cone S. with Double Cone S.  
 @) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 @) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

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## Table

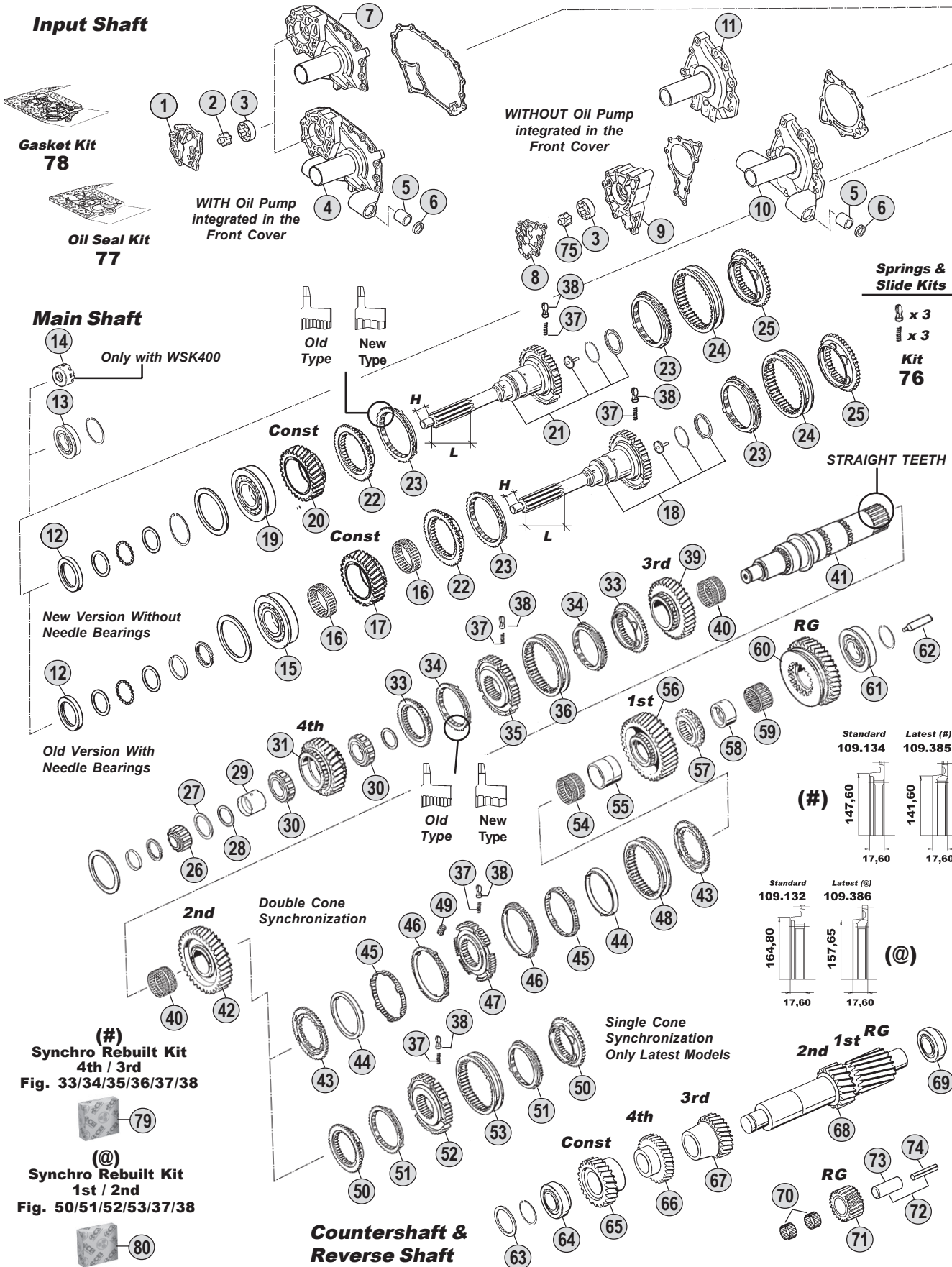
016 / A

ECO III

From 16S151  
To 16S221

Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	R.V.I. no.									
63		0730 101 471	50 01 853 305	Washer	1	S.2,00 mm		●				
64	130.242	0750 117 010	50 00 808 760	Bearing D.50,80x100x35	1	(9)		●				
64	130.308	0750 117 009	50 01 843 170	Bearing D.49,2x103,1x43,6	1	(10)		●				
64	130.308	0750 117 009	50 01 843 170	Bearing D.49,2x103,1x43,6	1			●				
65	146.427	1315 303 052	50 01 842 916	Constant Gear 37 T	1		AB	●				
65	146.473	1315 303 051	50 01 848 218	Constant Gear 32 T	1		C	●				
65	146.367	1315 303 008	50 01 856 590	Constant Gear 39 T	1		DE	●				
65	146.407	1316 303 031		Constant Gear 37 T	1		A	●				
65	146.428	1316 303 002		Constant Gear 37 T	1	Old(11)	A	●				
65	146.469	1316 303 064	50 01 850 731	Constant Gear 32 T	1		C	●				
65	146.486	1316 303 030	50 01 848 761	Constant Gear 39 T	1		D	●				
65	146.388	1316 303 001		Constant Gear 39 T	1	Old(12)	D	●				
66	146.429	1315 303 046	50 01 842 917	Gear 4th Speed 39 T	1		AB	●				
66	146.474	1315 303 050	50 01 848 219	Gear 4th Speed 35 T	1		CDE	●				
66	146.389	1315 303 006		Gear 4th Speed 37 T	1	(7)	D	●				
66	146.408	1316 303 004		Gear 4th Speed 39 T	1		A	●				
66	146.426	1316 303 065	50 01 848 764	Gear 4th Speed 35 T	1		CD	●				
66	146.390	1316 303 003		Gear 4th Speed 37 T	1	(8)	D	●				
67	146.368	1315 303 010	50 01 842 915	Gear 3rd Speed 28 T	1	3	AB	●				
67	146.365	1315 303 004	50 01 848 217	Gear 3rd Speed 26 T	1		CDE	●				
67	146.409	1316 303 006		Gear 3rd Speed 28 T	1		A	●				
67	146.391	1316 303 005	50 01 848 755	Gear 3rd Speed 26 T	1		CD	●				
68	105.112	1315 303 048		Countershaft 19-23 T	1	(9)	AB	●				
68	105.095	1315 303 049		Countershaft 17-20 T	1	(9)	DE	●				
68	105.109	1315 303 041	50 01 842 903	Countershaft 19-23 T	1	(10)	A	●				
68	105.124	1315 303 042	50 01 848 215	Countershaft 17-20 T	1	(10)	CD	●				
68	105.103	1316 303 034		Countershaft 19-23 T	1		A	●				
68	105.110	1316 303 053		Countershaft 19-23 T	1	(11)	A	●				
68	105.100	1316 303 033	50 01 848 752	Countershaft 17-20 T	1		CD	●				
68	105.096	1316 303 052		Countershaft 17-20 T	1	(12)	D	●				
69	130.307	0750 117 011	50 01 831 796	Bearing D.50,8x104,7x39,6	1			●				
69	130.308	0750 117 009	50 01 843 170	Bearing D.49,2x103,1x43,6	1			●				
70	137.135	0750 115 366	50 01 842 870	Needle Cage D.45x57x21	2			●				
70	137.149	0750 115 369	50 01 848 708	Needle Cage D.45x57x25	2			●				
71	147.142	1315 305 005	50 01 842 865	Reverse Gear 20 T	1		AB	●				
71	147.126	1315 305 002	50 01 848 198	Reverse Gear 22 T	1		CDE	●				
71	147.143	1316 305 002		Reverse Gear 20 T	1		A	●				
71	147.127	1316 305 001	50 01 848 707	Reverse Gear 22 T	1		CD	●				
72		1315 201 054		Reverse Shaft	1	Old(13)	AB	●				
72		1315 201 053		Reverse Shaft	1	Old(13)	CDE	●				
72		1316 201 030		Reverse Shaft	1	Old(13)	A	●				
72	190.301	1316 201 029		Reverse Shaft	1	Old(13)	CD	●				
73	190.302	1315 305 009	50 01 843 643	Reverse Shaft	1	New		●	●			
74		0631 329 293	50 01 842 873	Pin	1	New	AB	●				
74		0631 329 294	50 01 848 201	Pin	1	New	CDE	●				

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model WITH integrated Oil Pump  
 (10) For model WITHOUT integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc. Fig. 74 (\*) New Models only. Do NO MIX Single Cone S. with Double Cone S.  
 (14) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 79  
 (15) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 80

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Table

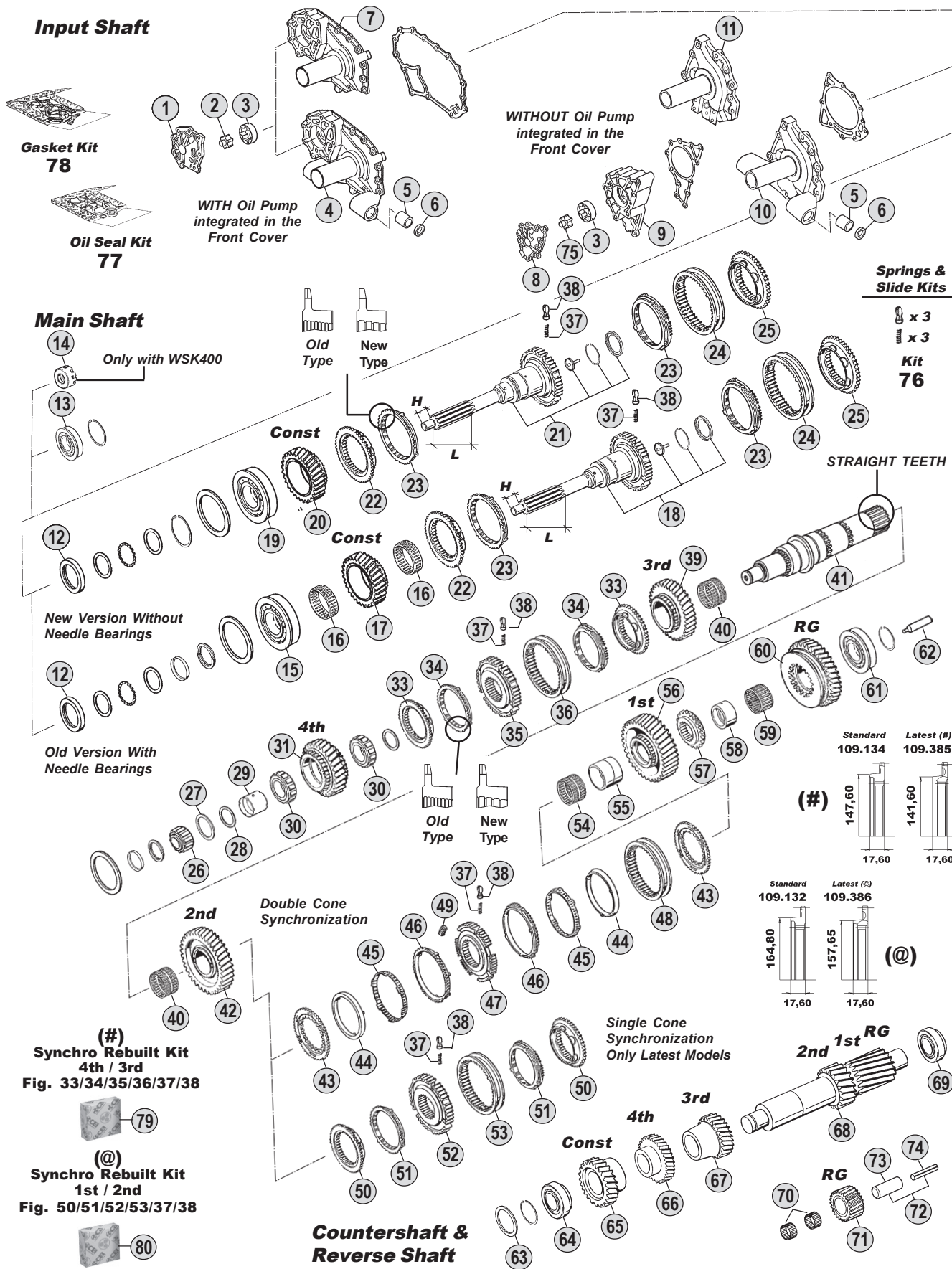
016 / A

ECO III

From 16S151  
To 16S221

Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



16S151 (1315)  
16S221 (1316)

O.E.M. Reference

Fig.	CEI no.	ZF no.	R.V.I. no.	Description	Q.ty	Note	Ratio					
74		0631 329 295		Pin	1	New	A					
74		0631 329 296	50 01 849 621	Pin	1	New	CD					
75		1314 202 039	50 01 842 920	Rotor	1							
76	198.843	CEI 198843		Spring Slide Set	1							
77	198.838	1315 298 002	50 01 843 156	Oil Seal Kit	1							
78	198.797	1315 298 001	50 01 843 157	Gasket Kit	1							
79	298.021	1315 298 061		Synchro kit 4th/3rd Speed	1		(#)					
80	298.020	1315 298 060		Synchro kit 1st/2nd Speed	1		(@)					

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**ECO III**  
From 16S151  
To 16S221

**Notes**

(1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model **WITH** integrated Oil Pump  
 (10) For model **WITHOUT** integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc fig. 74 (\*) New Models only. **DO NO MIX** Single Cone S. with Double Cone S.  
 (#) **Latest** Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (@) **Latest** Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

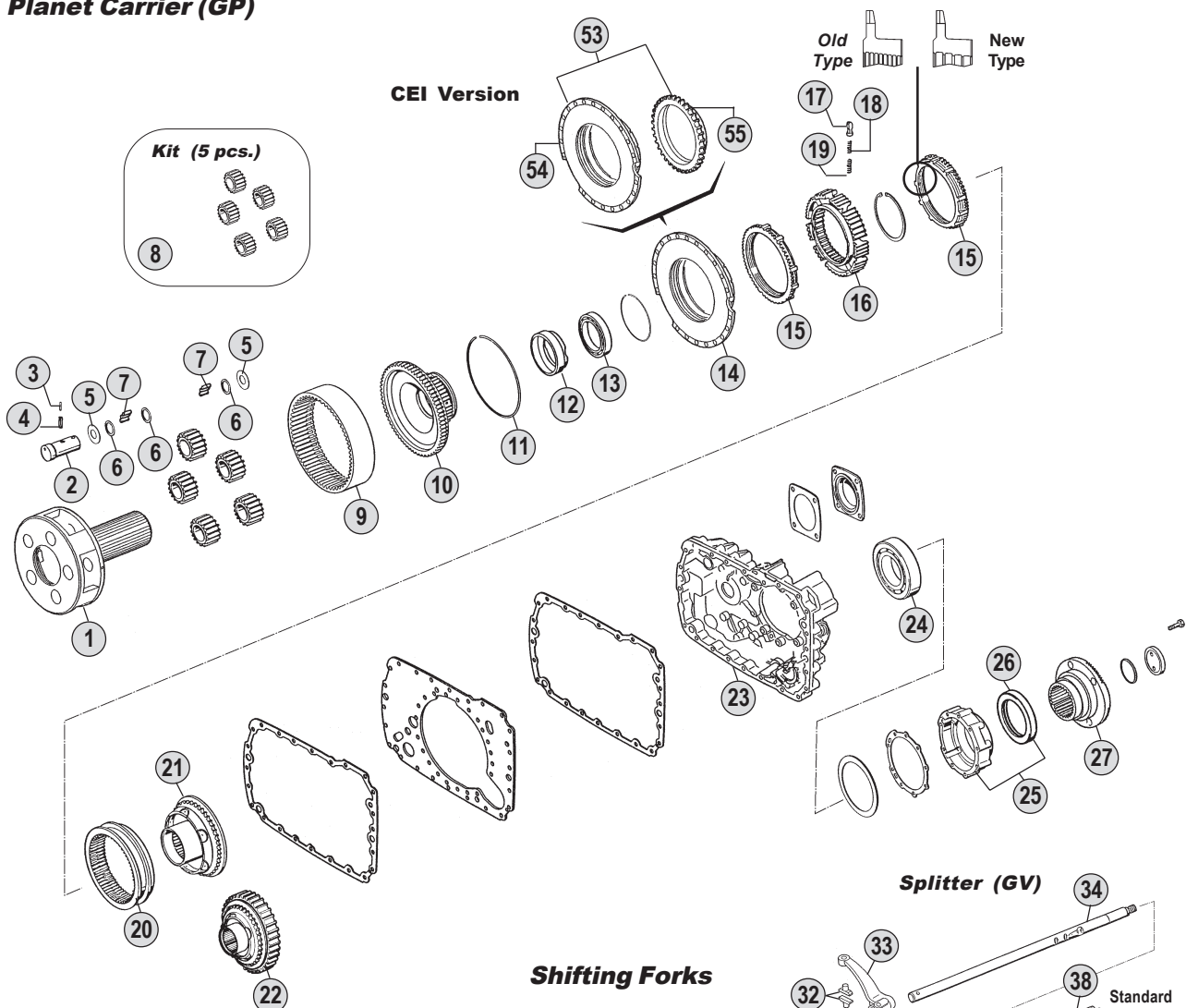
Date  
**03 / 2006**  
Table  
**016 / A**



Suitable To : **ZF**

**16S151 - 16S221**

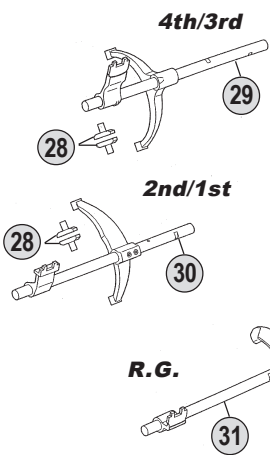
**Planet Carrier (GP)**



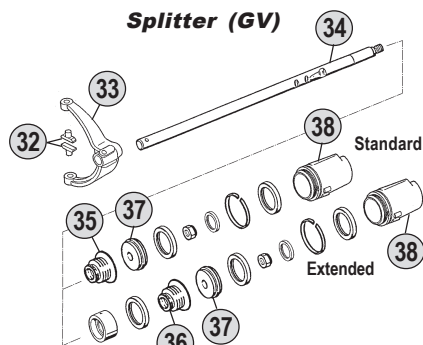
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 48</b>	<b>Kit 49</b>	<b>Kit 50</b>

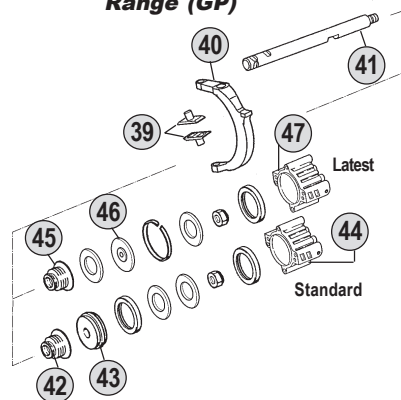
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.					R.V.I. no.	16S151 (1315)	16S221 (1316)		
1	190.393	1296 232 002	50 01 831 856	Planetary Carrier	1		●				
1	190.392	1316 232 006	50 01 850 741	Planetary Carrier	1			●			
2	107.164	1296 332 005	50 01 831 862	Planet Shaft	5		●				
2	107.165	1312 332 026	50 01 850 743	Planet Shaft	5			●			
3	160.195	0631 329 167	50 01 831 867	Lock Pin D.3x26	5		●	●			
4	160.194	0631 329 051	77 01 014 081	Lock Pin D.5x26	5		●	●			
5	169.759	0501 308 981	50 01 831 859	Thrust Washer	10		●	●			
6	169.744	0730 107 168	50 01 831 858	Spacer Ring	15		●	●			
7	171.046	0735 470 164	50 01 831 861	Roller D.10x15	140		●				
7	171.062	0750 119 116	50 01 848 257	Roller D.10x16,8	140			●			
8	198.800	1313 232 003	50 01 831 857	Planetary Gear Set (5 pcs)	1	ACD	●				
8	198.816	1315 232 001		Planetary Gear Set (5 pcs)	1	BE	●				
8	198.801	1312 232 014	50 01 850 742	Planetary Gear Set (5 pcs)	1			●			
9	123.208	1295 332 086	50 01 831 869	Crown Gear 86 T	1	ACD	●				
9	123.221	1315 332 003		Crown Gear 90 T	1	BE	●				
9	123.208	1295 332 086	50 01 831 869	Crown Gear 86 T	1			●			
10	150.133	1313 332 020	50 01 831 868	Flange Gear 86 T	1	ACD	●				
10	150.140	1315 332 002		Flange Gear 90 T	1	BE	●				
10	150.134	1297 332 120	50 01 850 744	Flange Gear 86 T	1			●			
11	111.198	0730 505 056	50 01 821 642	Locking Wire	1		●	●			
12		1297 332 002		Ring	1		●				
13	130.310	0750 116 165	50 01 821 522	Bearing D.80x110x16	1		●				
13	130.311	0635 338 035	50 01 850 745	Bearing D.100x125x13	1			●			
14	298.017	1315 233 006	50 01 843 126	Synchronizer Cone	1		●	●			
15	119.085	1296 333 022	50 00 289 824	Synchronizer Ring	2	Old Type	●	●			
15	119.172	1296 333 045	50 01 846 736	Synchronizer Ring	2	New Type	●	●			
16	157.182	1313 333 001	50 01 831 875	Synchronizer Hub	1		●				
16	157.183	1297 333 115	50 01 850 751	Synchronizer Hub	1			●			
17	160.116	1240 304 278	50 00 255 276	Pressure Piece	9		●	●			
18	156.036	0732 040 386	50 00 255 277	Inner Spring De.3x34	9		●	●			
19	156.037	0732 040 385	77 01 007 805	Outer Spring De.6x34	9		●	●			
20	154.098	1296 333 023	50 00 289 825	Sliding Sleeve	1		●	●			
21	198.374	1313 233 001	50 01 821 639	Synchronizer Cone (38 Spl.)	1		●				
21	198.790	1297 233 056	50 01 850 752	Synchronizer Cone (41 Spl.)	1			●			
22	196.353	1315 233 023		Synchronizer Cone 59 T (38 Spl)	1	With Retarder	●				
22	196.352	1316 233 010		Synchronizer Cone 59 T (41 Spl)	1	With Retarder		●			
23		1315 301 117		Housing	1		●	●			
23	175.242	1315 301 223	50 01 849 934	Housing	1		●	●			
24	130.245	0750 116 002	50 01 858 080	Bearing D.90x160x30	1		●	●			
25		1315 231 004		Cover	1		●	●			
26		0750 111 341	50 00 289 673	Oil Seal 105x130x12	1		●	●			
27		1315 338 002		Output Flange	1	D.180-4.H.	●				
27		1313 338 002		Output Flange	1	D.180-4.H.	●				
27		1313 338 011	50 01 831 874	Output Flange	1	D.204-4.H.	●				
27		1315 238 001		Output Flange	1	D.222-4.H.	●				

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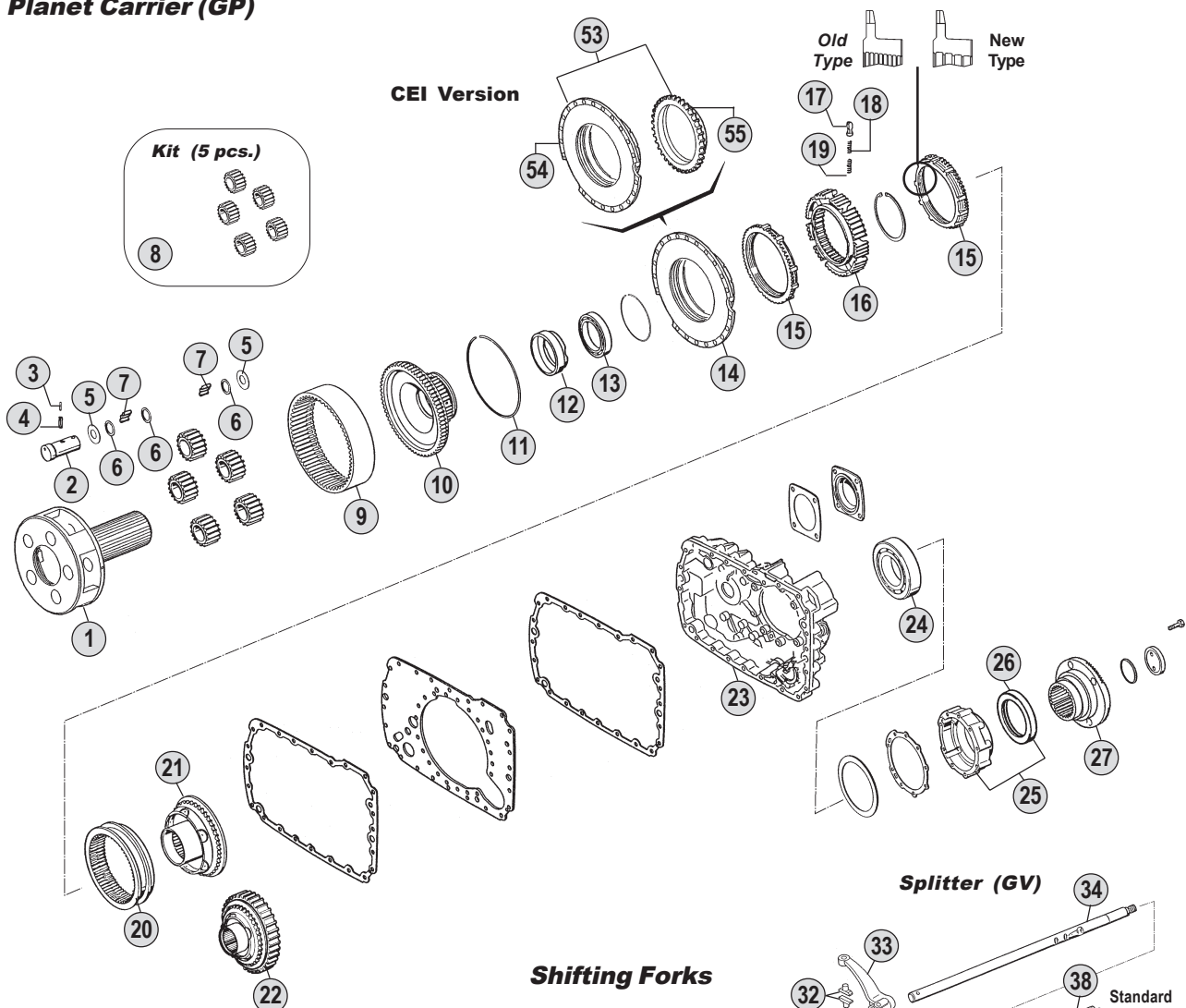
016 / B

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Suitable To : **ZF**

**16S151 - 16S221**

**Planet Carrier (GP)**



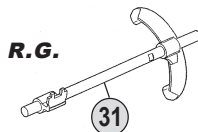
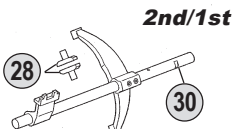
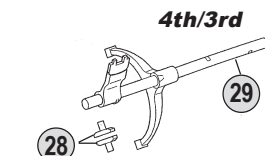
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 48</b>	<b>Kit 49</b>	<b>Kit 50</b>

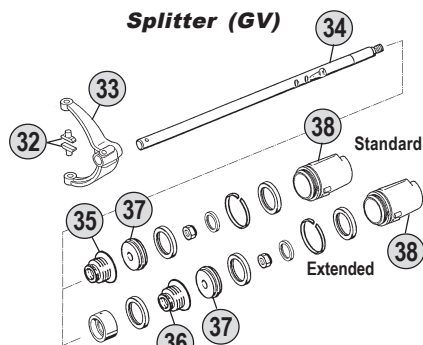
**Kits**



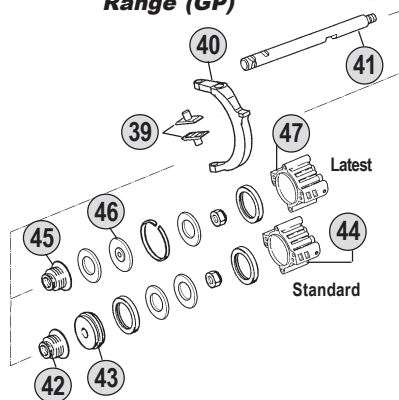
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.					R.V.I. no.	16S151 (1315)	16S221 (1316)		
27		1297 333 110	50 01 843 761	Output Flange	1	D.180-4.H.		●			
27		1316 338 002	50 01 853 684	Output Flange	1	D.180-4.H.		●			
27		1312 333 018		Output Flange	1	D.200-4.H.		●			
27		1316 338 003		Output Flange	1	D.200-4.H.		●			
28	<b>141.163</b>	1297 306 120	50 01 831 828	Slide	2	Old Type	●	●			
28	<i>141.168</i>	1316 306 015	50 01 859 283	Slide	2	New Type	●	●			
29		1315 206 013	50 01 842 949	Fork	1	Old Type	●				
29		1315 206 055	50 01 859 285	Fork	1	New Type	●				
29		1315 206 024		Fork	1	Old Type	●				
29		1315 206 056		Fork	1	New Type	●				
29		1316 206 018	50 01 848 888	Fork	1	Old Type		●			
29		1316 206 037	50 01 860 002	Fork	1	New Type		●			
29		1316 206 017		Fork	1	Old Type		●			
29		1316 206 038		Fork	1	New Type		●			
30		1315 206 046	50 01 842 947	Fork	1	Old Type	●				
30		1315 206 052	50 01 859 282	Fork	1	New Type	●				
30		1315 206 047		Fork	1	Old Type	●				
30		1315 206 053		Fork	1	New Type	●				
30		1316 206 025	50 01 849 679	Fork	1	Old Type		●			
30		1316 206 033	50 01 860 000	Fork	1	New Type		●			
30		1316 206 026		Fork	1	Old type		●			
30		1316 206 034		Fork	1	New Type		●			
30		1316 206 027		Fork	1	Old Type		●			
30		1316 206 035		Fork	1	New Type		●			
31		1315 206 003		Fork	1		●				
31		1315 206 023	50 01 842 950	Fork	1		●				
31		1316 206 013	50 01 848 889	Fork	1			●			
31		1316 206 014		Fork	1			●			
32	<b>141.163</b>	1297 306 120	50 01 831 828	Slide	2	Old Type	●	●			
32	<i>141.168</i>	1316 306 015	50 01 859 283	Slide	2	New Type	●	●			
33		1315 312 017	50 01 843 023	Fork	1	Old Type	●	●			
33		1315 312 074		Fork	1	New Type	●	●			
34		1315 312 049	50 01 843 022	Rod	1	Standard	●				
34		1315 312 022		Rod	1	Extended	●				
34		1316 312 016	50 01 848 894	Rod	1	Standard		●			
34		1316 312 008		Rod	1	Extended		●			
35		0750 112 131	50 01 843 024	Cap Collar D.25x40x15	1	Standard	●	●			
36	<i>139.331</i>	0750 112 034	50 00 289 801	Cap Collar D.25x38x14,2	1	Extended	●	●			
37		1315 312 020	50 01 843 025	Piston	1		●	●			
38		1315 312 048	50 01 843 028	Cylinder	1		●				
38		1316 312 015	50 01 848 895	Cylinder	1			●			
39	<b>141.085</b>	1296 334 004	50 00 289 841	Bronze Slide	2		●	●			
40		1315 334 039	50 01 843 074	Fork	1		●	●			
41		1315 334 058	50 01 855 100	Rod	1		●				
41		1316 334 010	50 01 855 186	Rod	1			●			

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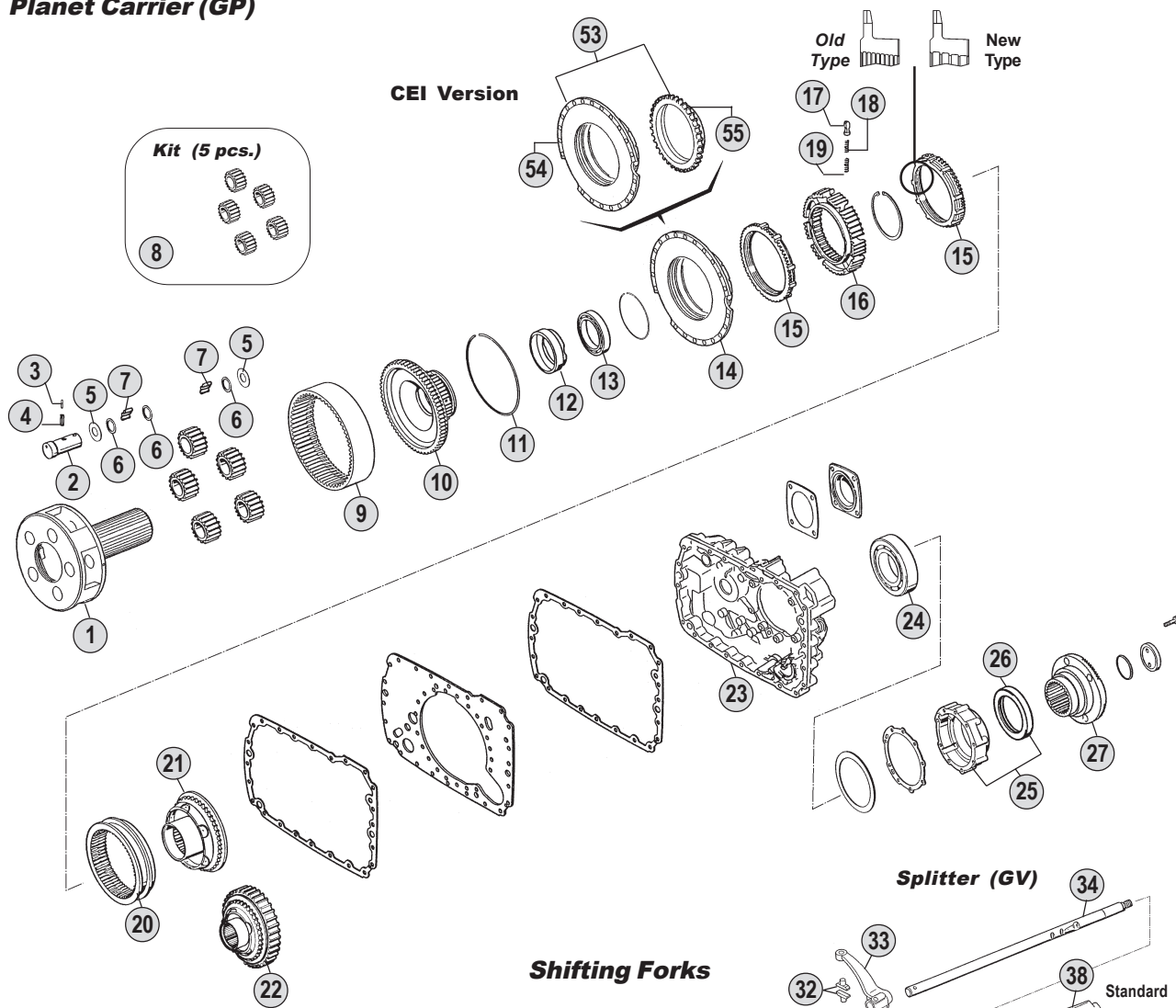
016 / B

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Suitable To : **ZF**

**16S151 - 16S221**

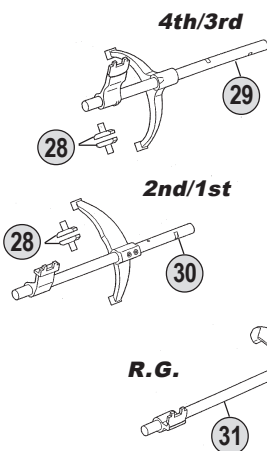
**Planet Carrier (GP)**



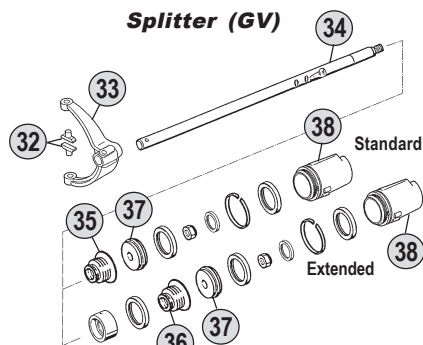
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 48</b>	<b>Kit 49</b>	<b>Kit 50</b>

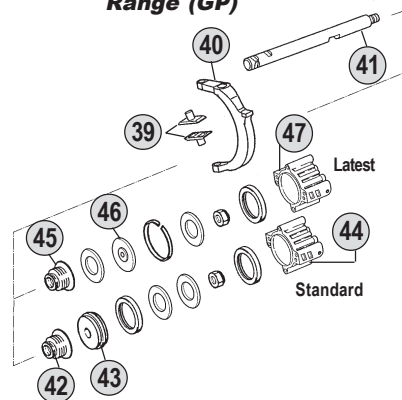
**Shifting Forks**



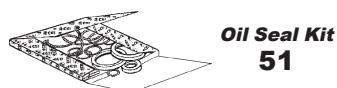
**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio	16S151 (1315) 16S221 (1316)						
	CEI no.	ZF no.					R.V.I. no.						
42	139.331	0750 112 034	50 00 289 801	Cap Collar D.25x38x14,2	1	Standard Type	●	●					
43	189.422	1296 334 039	50 00 289 835	Piston	1	Standard Type	●	●					
44		1315 334 021		Cylinder	1	Standard Type	●	●					
45		0750 112 131	50 01 843 024	Cap Collar D.25x40x15	1	Latest Type	●	●					
46		1315 334 034	50 01 843 135	Piston	1	Latest Type	●	●					
47		1315 334 056	50 01 849 893	Cylinder	1	Latest Type	●	●					
48	<b>198.339</b>	1268 298 938		Spring Slide Set	1		●	●					
49	<b>198.564</b>	CEI 198564		Spring Slide Set	1		●	●					
50	<b>198.842</b>	1295 298 933		Spring Slide Set	1		●	●					
51	<b>198.838</b>	1315 298 002	50 01 843 156	Oil Seal Kit	1		●	●					
52	<b>198.797</b>	1315 298 001	50 01 843 157	Gasket Kit	1		●	●					
53	<b>198.789</b>	CEI 198789		Synchronizer Cone	1	Can repl. fig. 14	●	●					
54	<b>135.122</b>	1296 333 046	50 01 856 505	Saddle Plate	1	Use with fig. 55	●	●					
55	<b>109.174</b>	1296 333 050	50 01 848 259	Synchronizer Cone	1	Use with fig. 54	●	●					

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**ECO III**  
From 16S151  
To 16S221

Notes

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suitable to :

**Z.F.****EcoSplit III****From 16S151 to 16S251****Planetary Gear with HELICAL TEETH****Application**

	<b>16S151</b>	<b>16S181</b>	<b>16S221</b>	<b>16S251</b>
	(1315)	(1316)	(1316)	(1316)
<b>MERCEDES</b>				
<b>MAN</b>				
<b>IVECO</b>				
<b>RVI</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**ECO III**  
From 16S151  
To 16S251

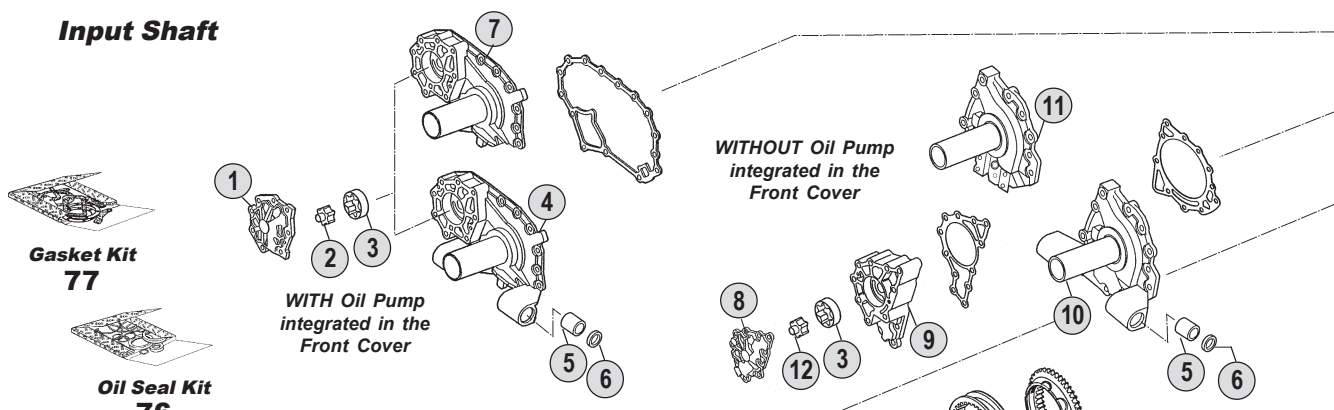
**Ratios**

	<b>R.13,74-0,84</b>	<b>R.13,80-0,84</b>	<b>R.16,41-1,00</b>		
	<b>A</b>	<b>B</b>	<b>C</b>		
<b>16S151</b>					
<b>16S181</b>					
<b>16S221</b>					
<b>16S251</b>					

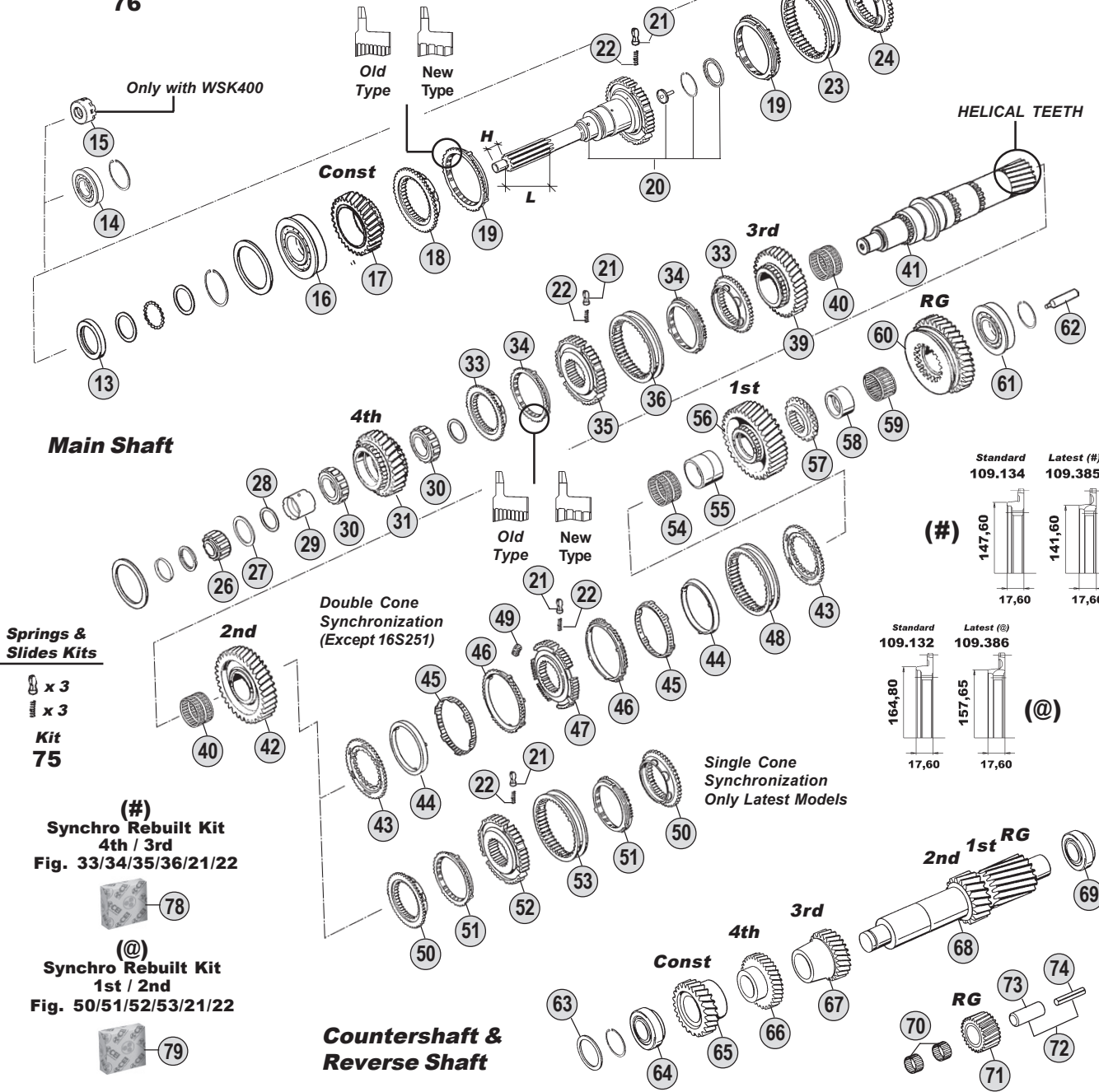
Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

**Input Shaft**



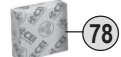
**Main Shaft**



**Springs & Slides Kits**

x 3  
x 3  
**Kit 75**

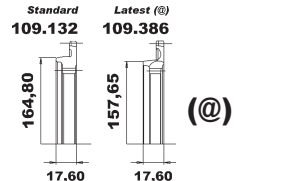
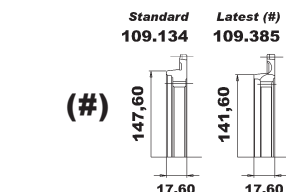
(#)  
**Synchro Rebuilt Kit 4th / 3rd**  
Fig. 33/34/35/36/21/22



(@)  
**Synchro Rebuilt Kit 1st / 2nd**  
Fig. 50/51/52/53/21/22



**Countershaft & Reverse Shaft**



**Ratios**

16S151	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S181	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S221	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S251	A: --	B: 13,80 - 0,84	C: --	D: --	E: --



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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	R.V.I. no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)
1		1315 302 013		Cover	1			●	●		
2		1315 202 014		Rotor	1			●	●		
3		1315 303 027	50 01 842 921	Oil Pump Housing	1			●	●	●	●
4		1315 302 057		Front Cover	1			●	●		
5		0730 260 398	50 01 842 901	Bush	4			●	●	●	●
6		0501 312 738	50 01 842 902	Oil Seal 30x37x4	4			●	●	●	●
7		1315 302 045		Front Cover	1			●	●		
7		1315 302 047		Front Cover	1			●	●		
8		1315 302 120	50 01 842 922	Cover	1			●	●	●	●
9		1315 302 121	50 01 842 919	Housing	1			●	●	●	●
10		1315 202 055		Front Cover	1			●	●	●	
10		1315 202 058	50 01 848 212	Front Cover	1			●	●		
10		1315 202 061		Front Cover	1			●	●		
10		1315 202 065	50 01 853 290	Front Cover	1			●	●	●	
10		1315 202 060	50 01 850 719	Front Cover	1	With WSK400		●	●		
11		1315 302 075		Front Cover	1			●	●	●	
11		1315 302 136	50 01 851 531	Front Cover	1			●	●	●	
12		1314 202 039	50 01 842 920	Rotor	1			●	●	●	●
13		0734 310 386	50 01 847 325	Oil Seal 55x75x8	1			●	●	●	●
13		0734 310 104	50 00 821 194	Oil Seal 52x68x8	1	(1)		●	●		
13		0734 319 514	50 01 843 315	Oil Seal 52x72x8	1	(2)		●	●	●	
14		0635 450 098	50 00 293 041	Bearing 52x90x33	1	(2)		●	●	●	
15		4130 309 063		Disk	1	(1)		●	●	●	
16	<b>130.518</b>	0750 117 732	50 01 848 210	Bearing D.85x150x30,50	1			●	●	●	●
17	<b>145.513</b>	1315 302 173	50 01 855 526	Constant Gear 34 T	1		A	●			
17	<b>145.556</b>	1315 302 158	50 01 848 208	Constant Gear 35 T	1		B	●			
17	<b>145.553</b>	1315 302 157	50 01 856 589	Constant Gear 30 T	1		C	●			
17	<b>145.561</b>	1316 302 057	50 01 854 270	Constant Gear 35 T	1		B		●		
17	<b>145.483</b>	1316 302 066	50 01 848 728	Constant Gear 30 T	1		C		●		
17	<b>145.487</b>	1316 302 065		Constant Gear 34 T	1		A			●	
17	<b>145.554</b>	1316 302 067	50 01 850 725	Constant Gear 35 T	1		B			●	●
17	<b>145.483</b>	1316 302 066	50 01 848 728	Constant Gear 30 T	1		C			●	●
18	<b>109.134</b>	1312 304 027	50 01 831 793	Synchronizer Cone	1			●	●	●	●
19	<b>119.119</b>	1297 304 402	50 01 831 795	Synchronizer Ring	2	Old Type		●	●	●	●
19	<b>119.167</b>	1297 304 484	50 01 845 809	Synchronizer Ring	2	New Type		●	●	●	●
20	190.304	1315 202 037	50 01 848 274	Input Shaft	1	L=125 H=31,5		●			
20	190.315	1315 202 040		Input Shaft	1	L=102 H=32		●			
20		1315 202 048		Input Shaft	1	With WSK400		●			
20	190.317	1315 221 002	50 01 848 275	Input Shaft	1	NMV221 (Clutch PTO)		●			
20	190.303	1316 202 025	50 01 853 606	Input Shaft	1	L=134 H=32			●	●	●
20	190.300	1316 202 026		Input Shaft	1				●	●	
20	190.310	1316 202 033	50 01 850 724	Input Shaft	1	L=63 H=46,5 / WSK400				●	
20		1316 202 038	50 01 848 727	Input Shaft	1				●	●	
20		1316 221 017		Input Shaft	1	NMV221 (Clutch PTO)			●	●	
21	<b>160.189</b>	1297 304 436	50 00 289 398	Pressure Piece	3			●	●	●	●

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. **DO NO MIX** Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (@) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

03 / 2006

## Table

017 / A

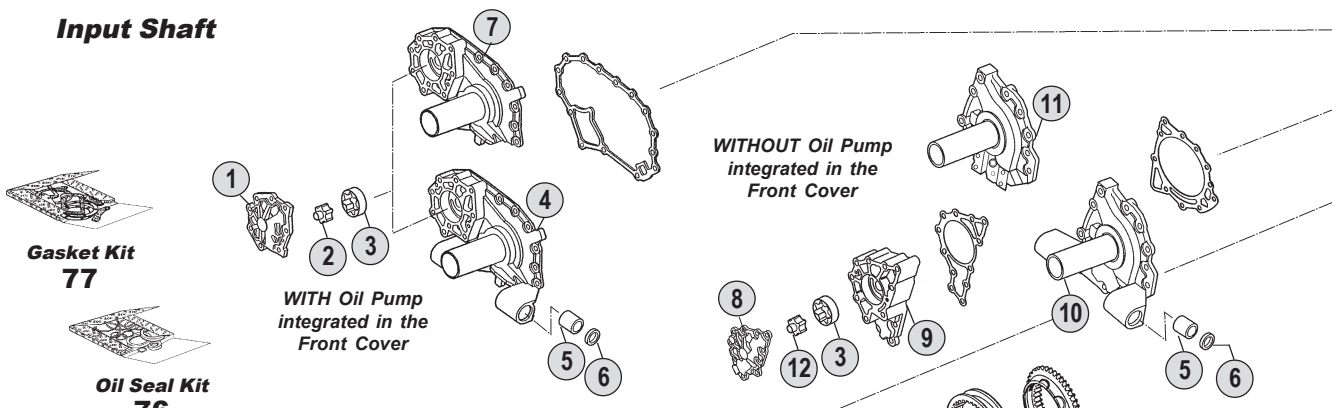
**ECO III**  
From 16S151  
To 16S251

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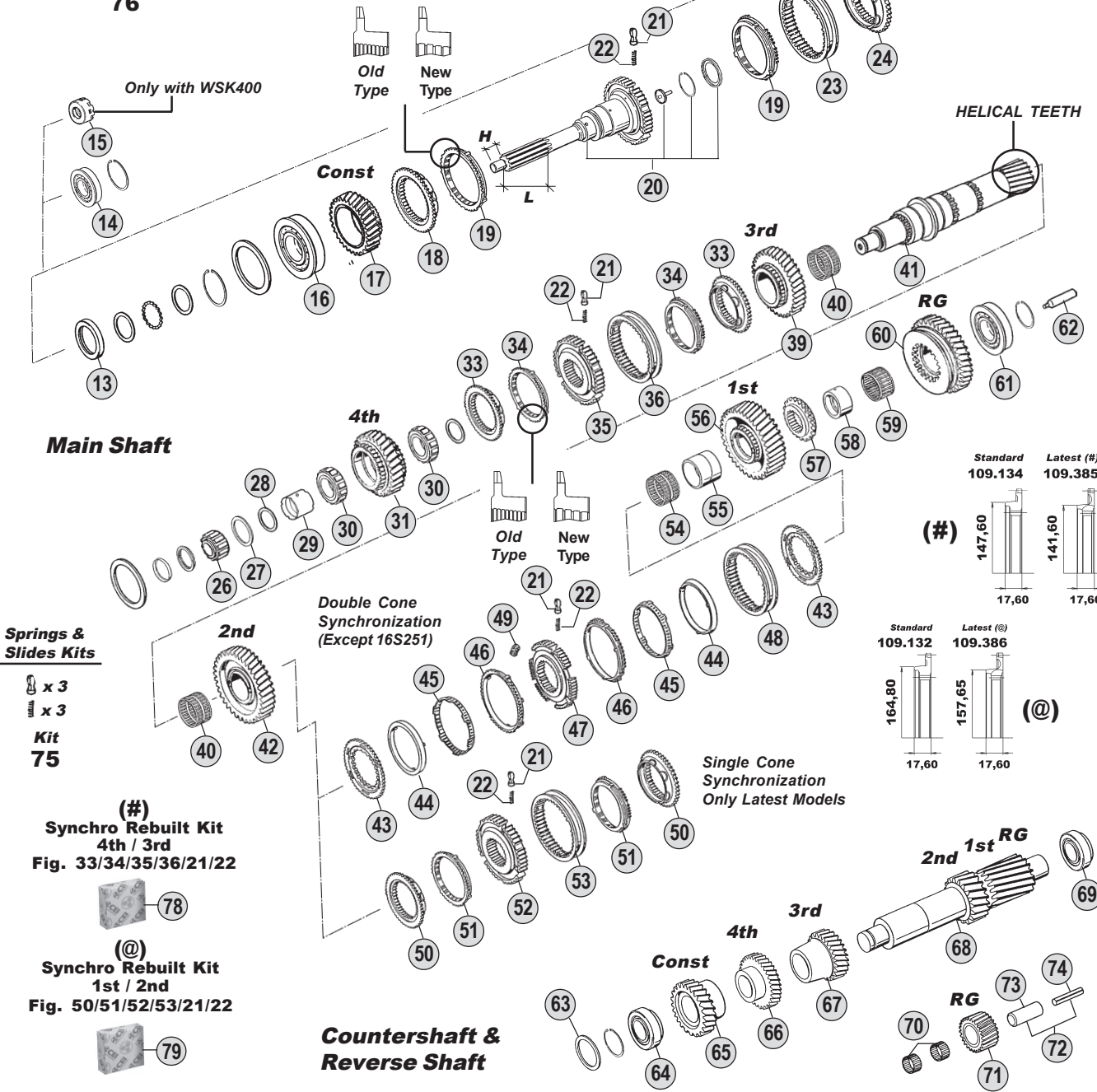
Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

**Input Shaft**



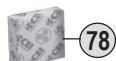
**Main Shaft**



**Springs & Slides Kits**

x 3  
x 3  
**Kit 75**

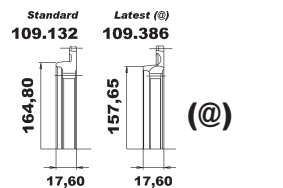
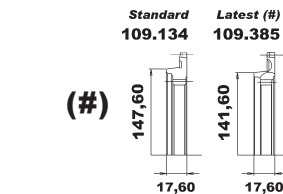
(#)  
**Synchro Rebuilt Kit**  
4th / 3rd  
Fig. 33/34/35/36/21/22



(@)  
**Synchro Rebuilt Kit**  
1st / 2nd  
Fig. 50/51/52/53/21/22



**Countershaft & Reverse Shaft**



**Ratios**

16S151	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S181	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S221	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S251	A: --	B: 13,80 - 0,84	C: --	D: --	E: --



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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	R.V.I. no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)	
22	156.140	0732 040 409	50 00 242 857	Spring D.6,50x23,50	3			●	●	●	●	
23	154.135	1310 304 202	50 01 848 744	Sliding Sleeve	1			●	●	●	●	
24	109.133	1312 304 056	50 01 831 792	Synchronizer Cone	1			●	●	●	●	
26	137.150	0750 117 232	50 01 823 861	Roller Cage D.42x40,30	1			●	●	●	●	
27		1315 304 048	50 01 854 418	Ring	1	S.8,00 mm		●	●	●	●	
27		1315 304 043	50 01 842 940	Ring	1	S.7,50 mm		●	●	●	●	
28	169.776	0750 101 158	50 01 851 626	Thrust Washer 81,5x5	1			●	●	●	●	
29	117.321	0750 119 125	50 01 851 627	Bush D.67x77x54,1	1			●				
29	117.320	0750 119 124	50 01 853 233	Bush D.67x77x66,10	1				●	●	●	
30	137.164	0750 115 534	50 01 851 628	Roller Cage D.77x101x29	2			●				
30	137.136	0750 115 531	50 01 853 234	Roller Cage D.77x101x29	2				●	●	●	
31	146.431	1315 304 017	50 01 842 938	Gear 4th Speed 30 T	1		A	●				
31	146.320	1315 304 089	50 01 848 238	Gear 4th Speed 32 T	1		BC	●				
31	146.410	1316 304 007		Gear 4th Speed 30 T	1		A			●		
31	146.401	1316 304 103	50 01 848 865	Gear 4th Speed 32 T	1		BC		●	●	●	
33	109.134	1312 304 027	50 01 831 793	Synchronizer Cone	2			●	●	●	●	
33	109.385	1316 304 159		Synchronizer Cone	2		(#)	●	●	●	●	
34	119.119	1297 304 402	50 01 831 795	Synchronizer Ring	2	Old Type		●	●	●	●	
34	119.167	1297 304 484	50 01 845 809	Synchronizer Ring	2	New Type		●	●	●	●	
34	119.217	1316 304 149		Synchronizer Ring	2		(#)	●	●	●	●	
35	157.180	1312 304 052	50 01 831 818	Synchronizer Hub	1			●	●	●	●	
35	157.227	1316 304 162		Synchronizer Hub	1		(#)	●	●	●	●	
36	154.135	1310 304 202	50 01 848 744	Sliding Sleeve	1			●	●	●	●	
36	154.357	1315 304 135		Sliding Sleeve	1		(#)	●	●	●	●	
39	145.514	1315 304 028	50 01 842 937	Gear 3rd Speed 32 T	1		A	●				
39	145.456	1315 304 027	50 01 848 236	Gear 3rd Speed 34 T	1		BC	●				
39	145.484	1316 304 094	50 01 853 614	Gear 3rd Speed 34 T	1		BC		●			
39	145.488	1316 304 009		Gear 3rd Speed 32 T	1		A			●		
39	145.473	1316 304 008	50 01 848 863	Gear 3rd Speed 34 T	1		BC			●		
39	145.555	1316 304 066	50 01 854 417	Gear 3rd Speed 34 T	1		B				●	
40	137.137	0735 321 087	50 01 831 801	Needle Cage D.92x100x53	2			●				
40	137.138	0750 115 303	50 01 848 858	Needle Cage D.92x100x63	2				●	●	●	
41	103.138	1315 304 131	50 01 851 624	Main Shaft	1			●				
41	103.130	1316 304 132	50 01 853 190	Main Shaft	1				●	●		
41	103.143	1316 304 131	50 01 584 403	Main Shaft	1						●	
42	145.455	1315 304 026	50 01 842 924	Gear 2nd Speed 37 T	1		A	●				
42	145.454	1315 304 025	50 01 848 221	Gear 2nd Speed 38 T	1		BC	●				
42	145.515	1316 304 003		Gear 2nd Speed 37 T	1		A			●		
42	145.474	1316 304 002	50 01 848 791	Gear 2nd Speed 38 T	1		BC		●	●	●	
43	109.176	1312 304 106	50 01 832 906	Synchronizer Cone	2			●	●	●	●	
44	119.152	1268 304 424	50 01 832 907	Intermediate Ring	2			●	●	●	●	
45	119.153	1268 304 494	50 01 849 668	Intermediate Cone	2			●	●	●	●	
46	119.144	1268 304 525	50 01 832 976	Synchronizer Ring	2			●	●	●	●	
47	157.181	1312 304 158	50 01 842 925	Synchronizer Hub	1			●	●	●	●	
48	154.190	1310 304 175	50 01 847 344	Sliding Sleeve	1			●	●	●	●	

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. **DO NO MIX** Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (@) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

03 / 2006

## Table

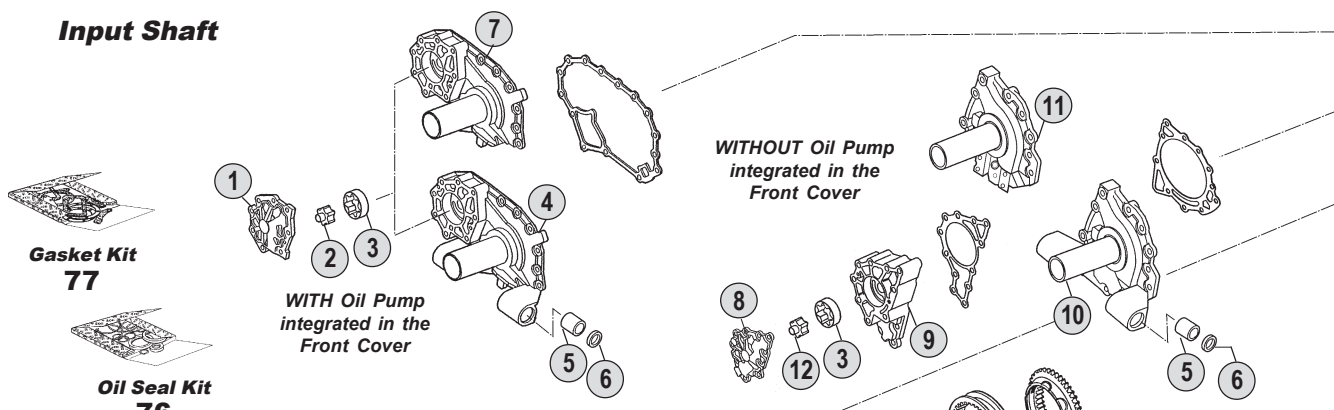
017 / A

**ECO III**  
From 16S151  
To 16S251

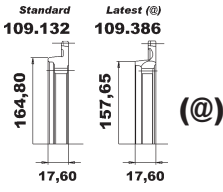
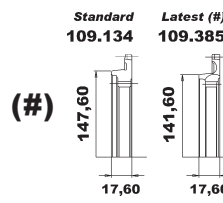
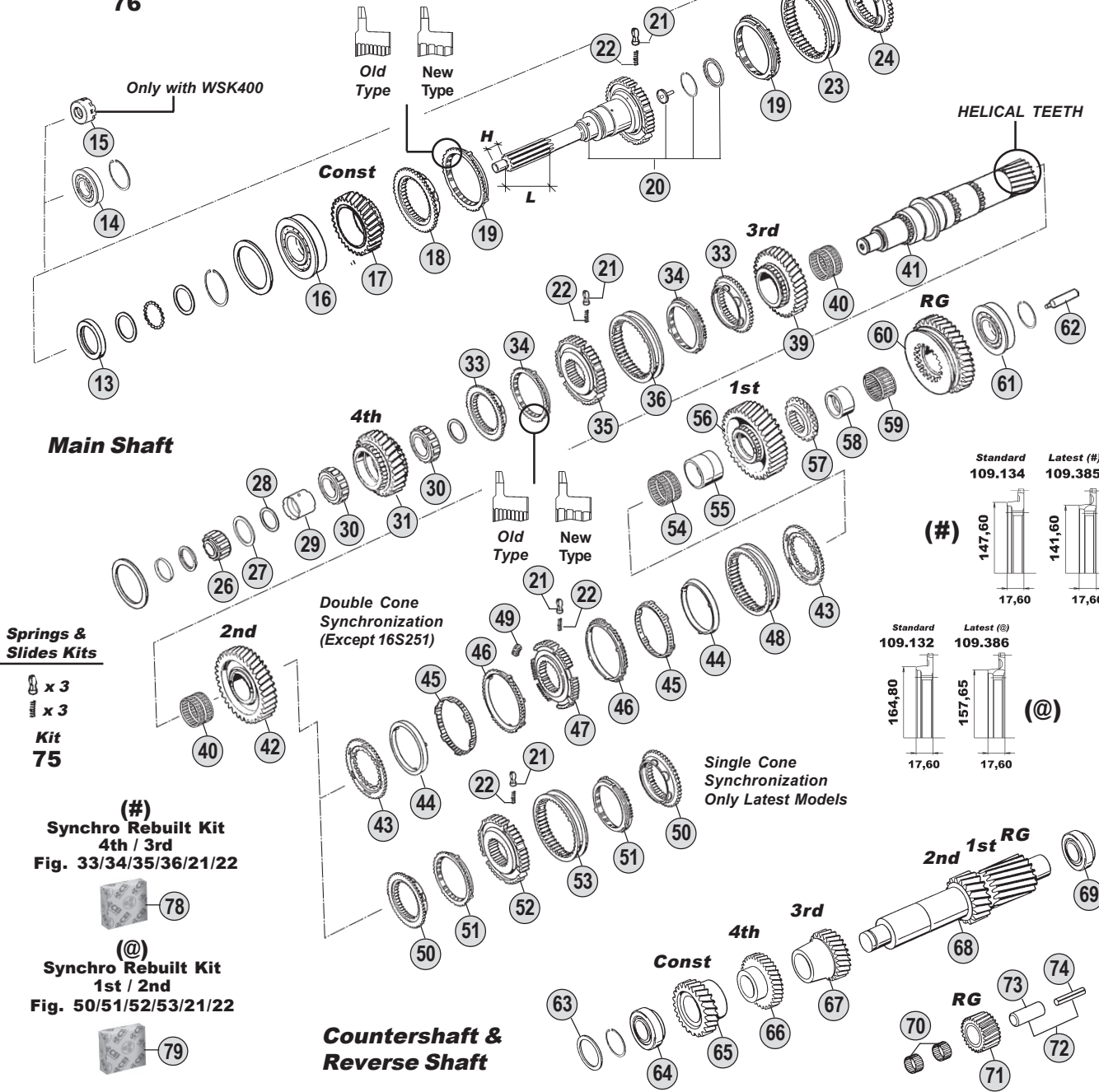
Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

**Input Shaft**



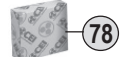
**Main Shaft**



**Springs & Slides Kits**

x 3  
x 3  
**Kit 75**

(#)  
**Synchro Rebuilt Kit**  
4th / 3rd  
Fig. 33/34/35/36/21/22



(@)  
**Synchro Rebuilt Kit**  
1st / 2nd  
Fig. 50/51/52/53/21/22



**Countershaft & Reverse Shaft**

**Ratios**

16S151	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S181	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S221	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S251	A: --	B: 13,80 - 0,84	C: --	D: --	E: --



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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.					R.V.I. no.	16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)
49	156.176	1312 304 159	50 01 832 974	Pad	3		●	●	●		
50	109.132	1313 304 009	50 01 831 807	Synchronizer Cone	2 (*)		●	●	●	●	
50	109.386	1316 304 156		Synchronizer Cone	2	(@)	●	●	●	●	
51	119.122	1297 304 401	50 01 831 806	Synchronizer Ring	2	Old Type (*)	●	●	●	●	
51	119.166	1297 304 485	50 01 853 567	Synchronizer Ring	2	New Type (*)	●	●	●	●	
51	119.218	1316 304 150		Synchronizer Ring	2	(@)	●	●	●	●	
52	157.189	1313 304 008	50 01 831 803	Synchronizer Hub	1 (*)		●	●	●	●	
52	157.228	1316 304 163		Synchronizer Hub	1	(@)	●	●	●	●	
53	154.202	1316 304 078	50 01 854 408	Sliding Sleeve	1 (*)		●	●	●	●	
53	154.358	1315 304 136		Sliding Sleeve	1	(@)	●	●	●	●	
54	137.160	0750 115 325	50 01 831 809	Needle Cage D.96x104x55	1		●				
54	137.151	0750 115 327	50 01 848 818	Needle Cage D.96x104x72	1			●	●	●	
55	117.294	1313 304 038	50 01 831 808	Bush	1		●				
55	117.310	1312 304 084	50 01 848 815	Bush D.85x96x72	1			●	●	●	
56	145.453	1315 304 014	50 01 842 926	Gear 1st Speed 44 T	1	A	●				
56	145.452	1315 304 004	50 01 848 226	Gear 1st Speed 47 T	1	BC	●				
56	145.522	1316 304 013		Gear 1st Speed 44 T	1	A			●		
56	145.475	1316 304 010	50 01 848 819	Gear 1st Speed 47 T	1	BC		●	●	●	
57	109.144	1315 304 018	50 01 842 927	Engaging Ring	1		●				
57	109.163	1312 304 124	50 01 848 822	Engaging Ring	1			●	●	●	
58	117.293	1315 304 132	50 01 851 029	Bush	1		●				
58	117.311	1316 304 133	50 01 854 361	Bush D.80x90x50	1			●	●	●	
59	137.162	0750 115 324	50 01 831 813	Roller Cage D.90x98x41	1		●				
59	137.140	0750 115 326	50 01 848 824	Roller Cage D.90x98x50	1			●	●	●	
60	147.124	1315 304 013	50 01 842 928	Reverse Gear 42 T	1	A	●				
60	147.123	1315 304 006	50 01 848 227	Reverse Gear 44 T	1	BC	●				
60	147.144	1316 304 015		Reverse Gear 42 T	1	A			●		
60	147.128	1316 304 012	50 01 848 825	Reverse Gear 44 T	1	BC		●	●	●	
61	130.309	0750 117 677	50 01 842 929	Bearing D.80x130x36	1		●				
61	130.304	0750 117 678	50 01 848 849	Bearing D.80x140x36,50	1			●	●	●	
62	188.209	1312 304 150	50 01 823 850	Oil Tube	1		●	●	●		
62		1316 304 093	50 01 854 416	Oil Tube	1					●	
63		0730 106 917	50 01 842 904	Washer	1	S.3,00 mm	●	●	●	●	
63		0730 101 471	50 01 853 305	Washer	1	S.2,00 mm	●	●	●	●	
64	130.308	0750 117 009	50 01 843 170	Bearing D.49,2x103,1x43,6	1		●	●	●		
64	130.519	0735 371 604		Bearing D.49,2x103,1x43,6	1					●	
65	146.427	1315 303 052	50 01 842 916	Constant Gear 37 T	1	A	●				
65	146.473	1315 303 051	50 01 848 218	Constant Gear 32 T	1	B	●				
65	146.367	1315 303 008	50 01 856 590	Constant Gear 39 T	1	C	●				
65	146.485	1316 303 056	50 01 854 274	Constant Gear 32 T	1	B		●			
65	146.398	1316 303 055	50 01 853 610	Constant Gear 39 T	1	C		●			
65	146.407	1316 303 031		Constant Gear 37 T	1	A			●		
65	146.469	1316 303 064	50 01 850 731	Constant Gear 32 T	1	B			●	●	
65	146.486	1316 303 030	50 01 848 761	Constant Gear 39 T	1	C			●		
66	146.429	1315 303 046	50 01 842 917	Gear 4th Speed 39 T	1	A	●				

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. Do NO MIX Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 79  
 (@) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 80

## Date

03 / 2006

## Table

017 / A

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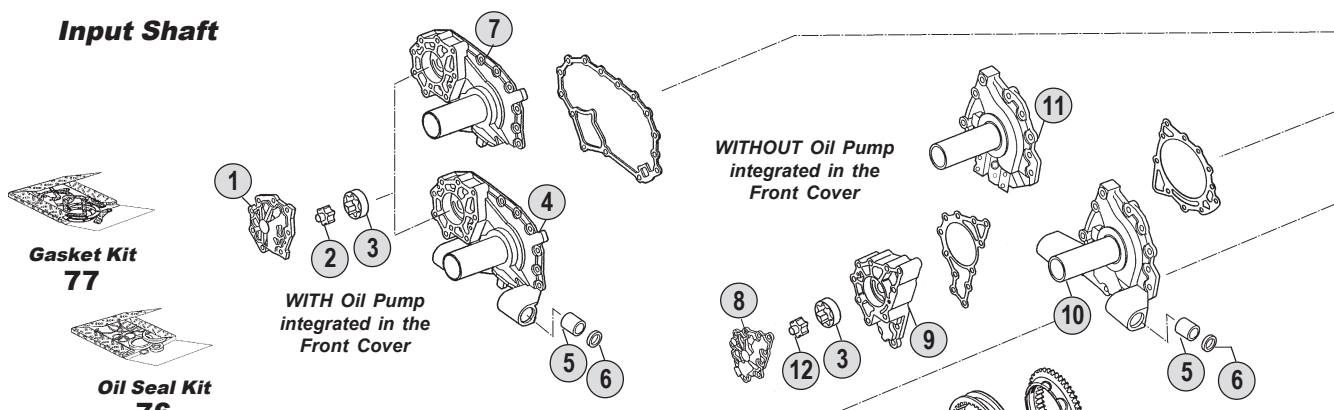


**ECO III**  
From 16S151  
To 16S251

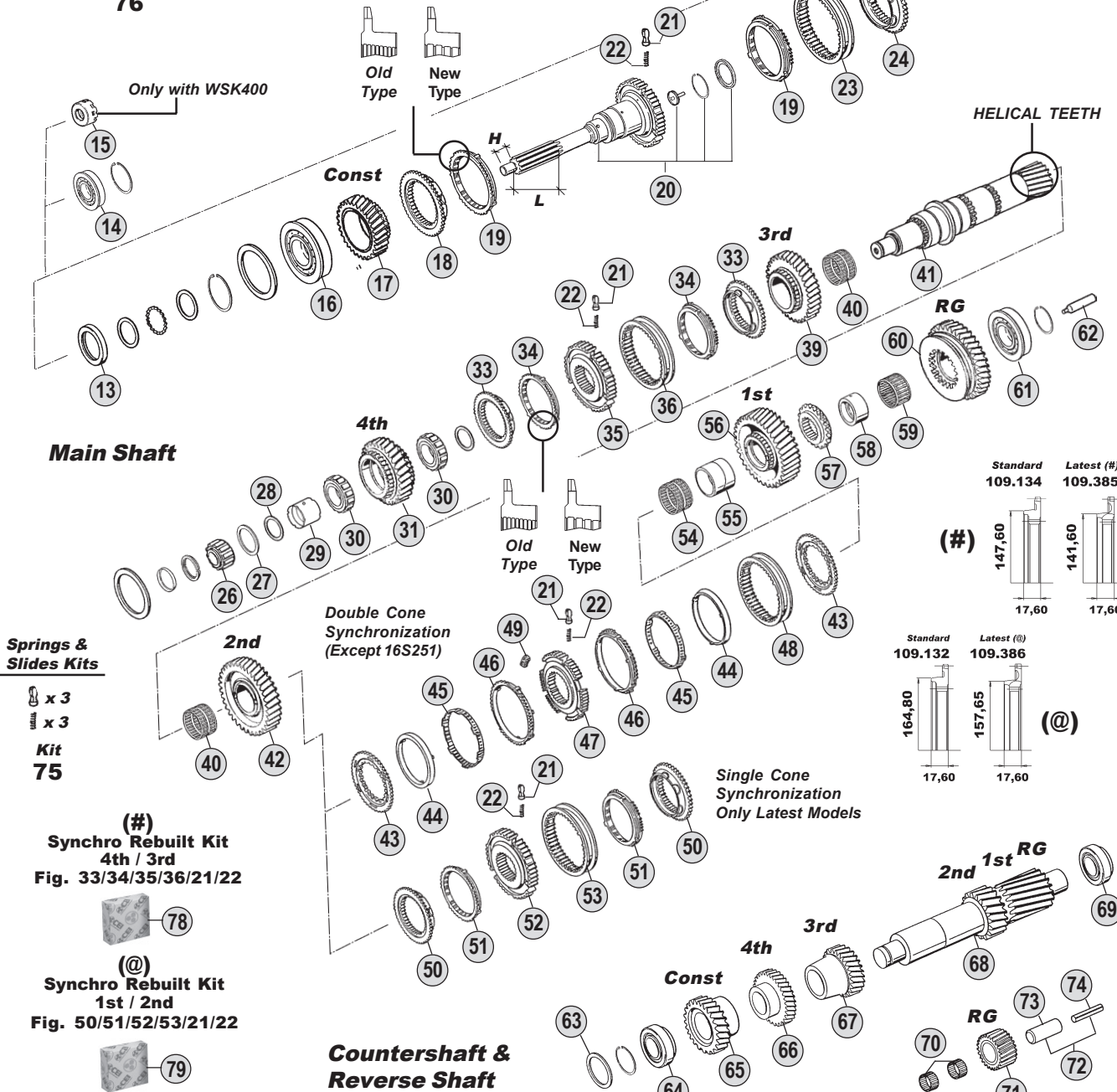
Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

**Input Shaft**



**Main Shaft**



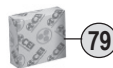
**Springs & Slides Kits**

x 3  
x 3  
**Kit 75**

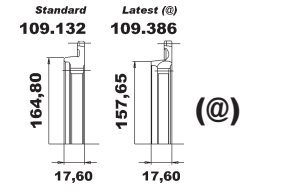
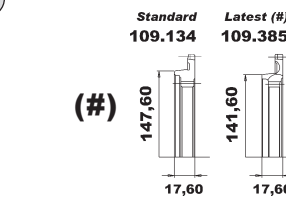
(#)  
**Synchro Rebuilt Kit 4th / 3rd**  
Fig. 33/34/35/36/21/22



(@)  
**Synchro Rebuilt Kit 1st / 2nd**  
Fig. 50/51/52/53/21/22



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S151</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S181</b>	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S221</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S251</b>	A: --	B: 13,80 - 0,84	C: --	D: --	E: --



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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					R.V.I. no.	16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)	
66	146.474	1315 303 050	50 01 848 219	Gear 4th Speed 35 T	1	BC	●					
66	146.399	1316 303 063	50 01 853 611	Gear 4th Speed 35 T	1	BC		●				
66	146.408	1316 303 004		Gear 4th Speed 39 T	1	A			●			
66	146.426	1316 303 065	50 01 848 764	Gear 4th Speed 35 T	1	BC			●	●		
67	146.368	1315 303 010	50 01 842 915	Gear 3rd Speed 28 T	1	A	●					
67	146.365	1315 303 004	50 01 848 217	Gear 3rd Speed 26 T	1	BC	●					
67	146.400	1316 303 058	50 01 853 609	Gear 3rd Speed 26 T	1	BC		●				
67	146.409	1316 303 006		Gear 3rd Speed 28 T	1	A			●			
67	146.391	1316 303 005	50 01 848 755	Gear 3rd Speed 26 T	1	BC			●			
67	146.470	1316 303 040	50 01 854 401	Gear 3rd Speed 26 T	1	B				●		
68	105.109	1315 303 041	50 01 842 903	Countershaft 19-23 T	1	A	●					
68	105.124	1315 303 042	50 01 848 215	Countershaft 17-20 T	1	BC	●					
68	105.103	1316 303 034		Countershaft 19-23 T	1	A			●			
68	105.100	1316 303 033	50 01 848 752	Countershaft 17-20 T	1	BC		●	●			
68	105.123	1316 303 038	50 01 854 397	Countershaft 17-20 T	1	B				●		
69	130.307	0750 117 011	50 01 831 796	Bearing D.50,8x104,7x39,6	1		●					
69	130.308	0750 117 009	50 01 843 170	Bearing D.49,2x103,1x43,6	1			●	●			
69	130.519	0735 371 604		Bearing D.49,2x103,1x43,6	1					●		
70	137.135	0750 115 366	50 01 842 870	Needle Cage D.45x57x21	2		●					
70	137.149	0750 115 369	50 01 848 708	Needle Cage D.45x57x25	2			●	●	●		
71	147.142	1315 305 005	50 01 842 865	Reverse Gear 20 T	1	A	●					
71	147.126	1315 305 002	50 01 848 198	Reverse Gear 22 T	1	BC	●					
71	147.143	1316 305 002		Reverse Gear 20 T	1	A			●			
71	147.127	1316 305 001	50 01 848 707	Reverse Gear 22 T	1	BC		●	●	●		
72		1315 201 054		Reverse Shaft	1	Old (3) A	●					
72		1315 201 053		Reverse Shaft	1	Old (3) BC	●					
72		1316 201 030		Reverse Shaft	1	Old (3) A			●			
72	190.301	1316 201 029		Reverse Shaft	1	Old (3) BC		●	●			
72		1316 201 075	50 01 854 388	Reverse Shaft	1	Old (3) B				●		
73	190.302	1315 305 009	50 01 843 643	Reverse Shaft	1	New	●	●	●	●		
74		0631 329 293	50 01 842 873	Pin	1	New A	●					
74		0631 329 294	50 01 848 201	Pin	1	New BC	●					
74		0631 329 295		Pin	1	New A			●			
74		0631 329 296	50 01 849 621	Pin	1	New BC		●	●			
74		0631 329 305	50 01 854 389	Pin	1	New B				●		
75	198.843	CEI 198843		Spring Slide Set	1		●	●	●	●		
76	198.838	1315 298 002	50 01 843 156	Oil Seal Kit	1		●	●	●	●		
77	198.797	1315 298 001	50 01 843 157	Gasket Kit	1		●	●	●	●		
78	298.021	1315 298 061		Synchro kit 4th/3rd Speed	1	(#)	●	●	●	●		
79	298.020	1315 298 060		Synchro kit 1st/2nd Speed	1	(@)	●	●	●	●		

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. **DO NO MIX** Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the synchro rebuilt kit fig. 79  
 (@) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the synchro rebuilt kit fig. 80

## Date

03 / 2006

## Table

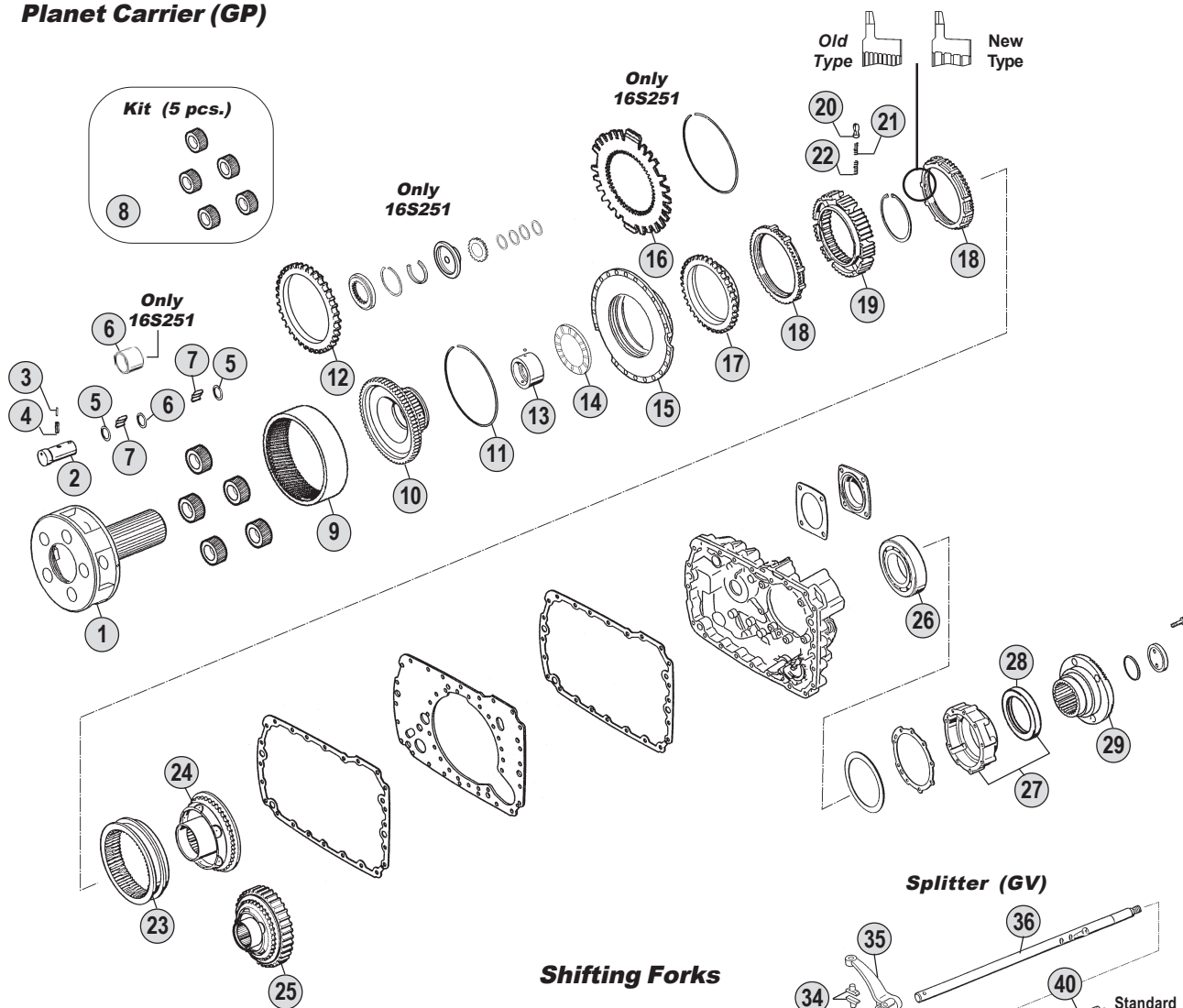
017 / A

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Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

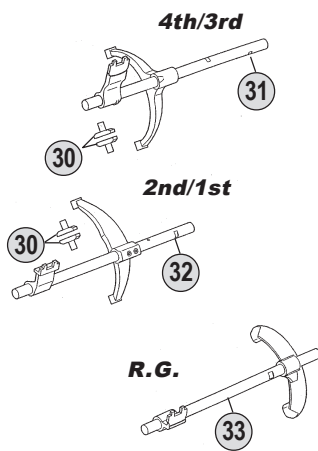
**Planet Carrier (GP)**



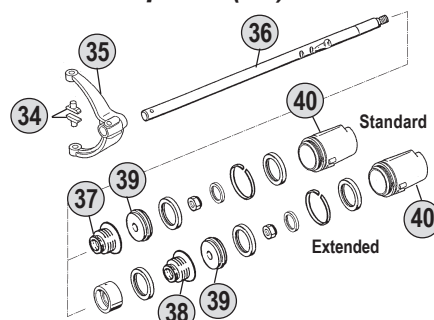
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 50</b>	<b>Kit 51</b>	<b>Kit 52</b>

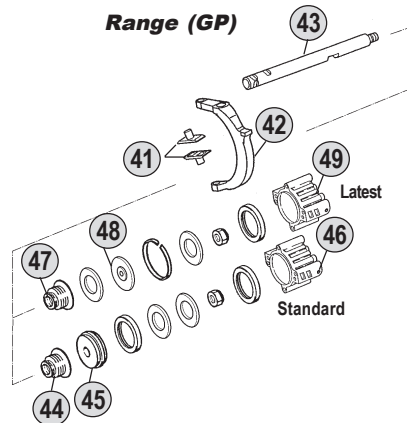
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S151</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S181</b>	A : --	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S221</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S251</b>	A : --	B : 13,80 - 0,84	C : --	D : --	E : --

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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					R.V.I. no.	16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)	
1	190.394	1315 232 016	50 01 843 086	Planetary Carrier	1		●					
1	190.325	1316 232 019	50 01 848 900	Planetary Carrier	1			●				
1	190.394	1315 232 016	50 01 843 086	Planetary Carrier	1	(4)		●				
1	190.325	1316 232 019	50 01 848 900	Planetary Carrier	1				●			
1		1316 232 021	50 01 854 433	Planetary Carrier	1					●		
2	107.159	1315 332 053	50 01 843 215	Planet Shaft	5		●					
2	107.204	1316 332 096	50 01 848 906	Planet Shaft	5			●				
2	107.159	1315 332 053	50 01 843 215	Planet Shaft	5	(4)		●				
2	107.204	1316 332 096	50 01 848 906	Planet Shaft	5				●			
2		1316 332 097	50 01 854 436	Planet Shaft	5					●		
3	160.195	0631 329 167	50 01 831 867	Lock Pin D.3x26	5		●	●	●	●		
4	160.194	0631 329 051	77 01 014 081	Lock Pin D.5x26	5		●	●	●	●		
5	169.744	0730 107 168	50 01 831 858	Spacer Ring	10		●					
5	269.009	0730 109 323	50 01 843 092	Spacer Ring	10			●				
5	169.744	0730 107 168	50 01 831 858	Spacer Ring	10	(4)		●				
5	269.009	0730 109 323	50 01 843 092	Spacer Ring	10				●	●		
6	169.744	0730 107 168	50 01 831 858	Spacer Ring	5		●					
6	269.010	0730 109 309	50 01 848 905	Spacer Ring	5			●				
6	169.744	0730 107 168	50 01 831 858	Spacer Ring	5	(4)		●				
6	269.010	0730 109 309	50 01 848 905	Spacer Ring	5				●			
6		0730 162 801	50 01 854 435	Bush T.14,90	5					●		
7	171.062	0750 119 116	50 01 848 257	Roller D.10x16,8	140		●	●	●	●		
8	198.798	1315 232 010	50 01 843 089	Planetary Gear Set (5 pcs)	1		●					
8	298.024	1316 232 011	50 01 848 902	Planetary Gear Set (5 pcs)	1			●				
8	198.798	1315 232 010	50 01 843 089	Planetary Gear Set (5 pcs)	1	(4)		●				
8	298.024	1316 232 011	50 01 848 902	Planetary Gear Set (5 pcs)	1				●			
8		1316 232 017	50 01 854 434	Planetary Gear Set (5 pcs)	1					●		
9	123.211	1315 332 041	50 01 843 118	Crown Gear	1		●	●	●	●		
9		1316 332 042	50 01 854 438	Crown Gear	1					●		
10	150.136	1316 332 103	50 01 851 633	Carrier Hub	1		●	●	●	●		
10		1316 332 073	50 01 854 437	Carrier Hub	1					●		
11		0730 513 583	50 01 843 216	Locking Wire	1		●	●	●	●		
11		0730 513 639	50 01 854 439	Locking Wire	1					●		
12		1316 332 044	50 01 854 440	Ring Gear	1					●		
13		1316 333 014	50 01 843 094	Bush	1		●	●	●	●		
14	130.312	0735 298 169	50 01 843 116	Bearing D.104,50x128,40x10	1		●	●	●	●		
15	135.122	1296 333 046	50 01 856 505	Saddle Plate	1		●	●	●	●		
16		1316 333 026	50 01 848 258	Saddle Plate	1					●		
17	109.174	1296 333 050	50 01 848 259	Synchronizer Cone	1		●	●	●	●		
18	119.085	1296 333 022	50 00 289 824	Synchronizer Ring	2	Old Type	●	●	●	●		
18	119.172	1296 333 045	50 01 846 736	Synchronizer Ring	2	New Type	●	●	●	●		
19	157.182	1313 333 001	50 01 831 875	Synchronizer Hub	1		●	●	●	●		
20	160.116	1240 304 278	50 00 255 276	Pressure Piece	9		●	●	●	●		
21	156.036	0732 040 386	50 00 255 277	Inner Spring De.3x34	9		●	●	●	●		
22	156.037	0732 040 385	77 01 007 805	Outer Spring De.6x34	9		●	●	●	●		

## Notes

(4) 16S181 Special GP Version. This version use 16S151 GP items.  
For this version use items marked (4) together.

## Date

03 / 2006

## Table

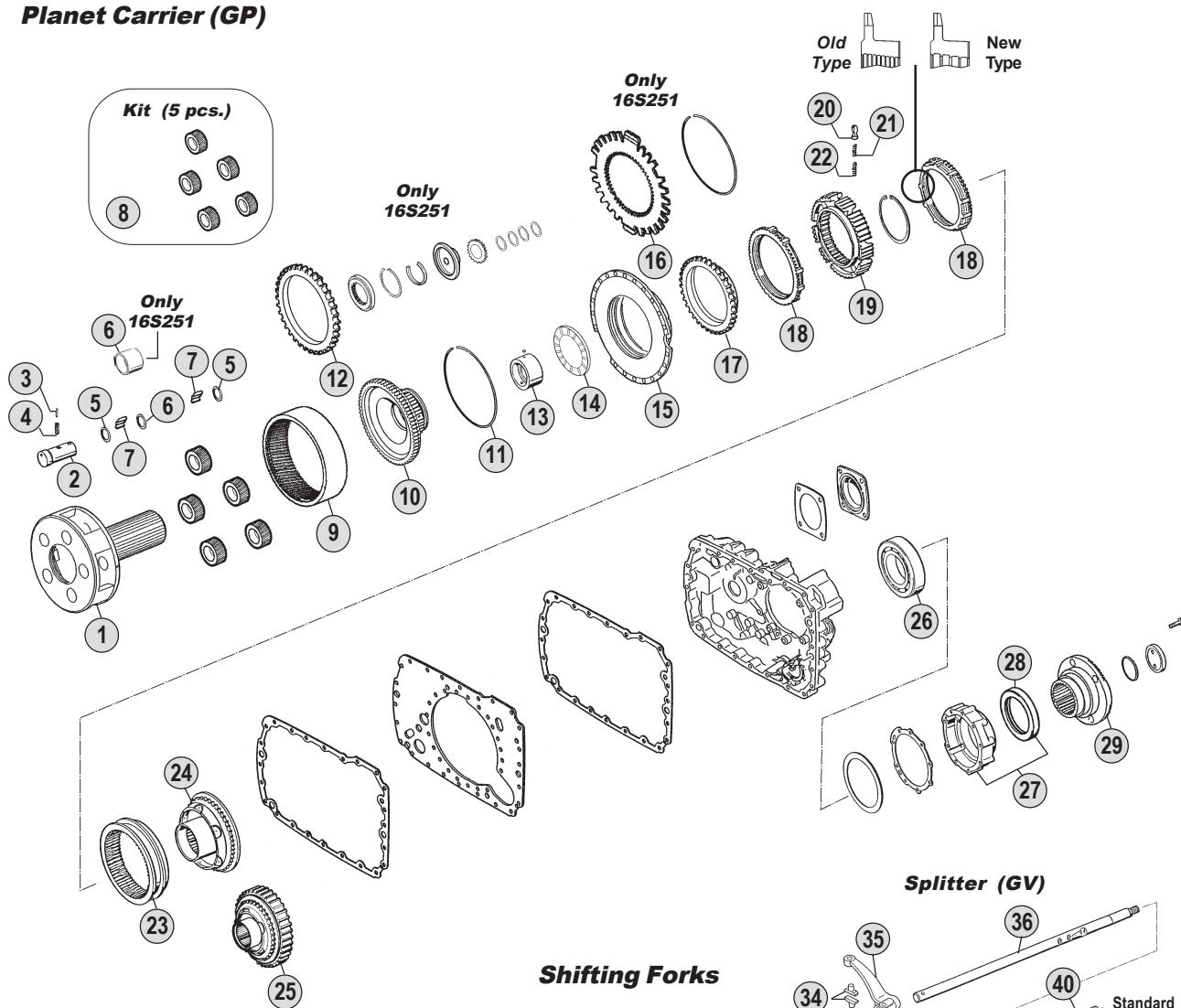
017 / B

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Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

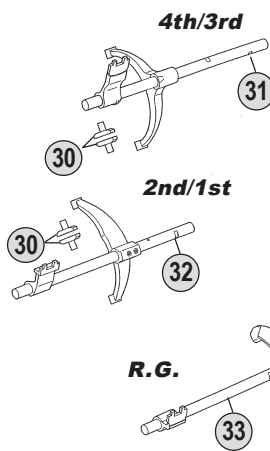
**Planet Carrier (GP)**



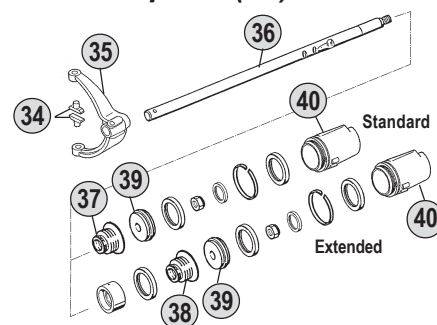
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 50</b>	<b>Kit 51</b>	<b>Kit 52</b>

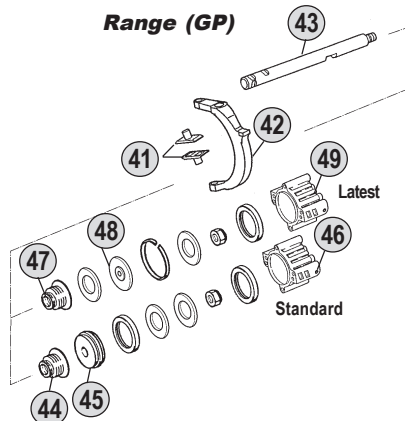
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S151</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S181</b>	A : --	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S221</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S251</b>	A : --	B : 13,80 - 0,84	C : --	D : --	E : --

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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	R.V.I. no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)
23	154.098	1296 333 023	50 00 289 825	Sliding Sleeve	1			●	●	●	●
24	109.175	1316 233 015	50 01 843 132	Synchronizer Cone (44 Spl.)	1			●	●	●	●
25	196.270	1316 233 014	50 01 853 444	Synchronizer Cone 59 T (44 Spl)	1	With Retarder		●	●	●	●
26	130.245	0750 116 002	50 01 858 080	Bearing D.90x160x30	1			●	●	●	●
27		1315 231 004		Cover	1			●	●	●	●
28		0750 111 341	50 00 289 673	Oil Seal 105x130x12	1			●	●	●	●
29		1297 333 110	50 01 843 761	Output Flange	1	D.180-4.H.		●	●	●	●
29		1316 232 028		Output Flange	1	D.222-4.H.		●			
29		1316 338 002	50 01 853 684	Output Flange	1	D.180-4.H.				●	
30	141.163	1297 306 120	50 01 831 828	Slide	2	Old Type		●	●	●	●
30	141.168	1316 306 015	50 01 859 283	Slide	2	New Type		●	●	●	●
31		1315 206 013	50 01 842 949	Fork	1	Old Type		●			
31		1315 206 055	50 01 859 285	Fork	1	New Type		●			
31		1315 206 024		Fork	1	Old Type		●			
31		1315 206 056		Fork	1	New Type		●			
31		1316 206 018	50 01 848 888	Fork	1	Old Type			●	●	●
31		1316 206 037	50 01 860 002	Fork	1	New Type			●	●	●
31		1316 206 017		Fork	1	Old Type				●	
31		1316 206 038		Fork	1	New Type				●	
32		1315 206 046	50 01 842 947	Fork	1	Old Type		●			
32		1315 206 052	50 01 859 282	Fork	1	New Type		●			
32		1315 206 047		Fork	1	Old Type		●			
32		1315 206 053		Fork	1	New Type		●			
32		1316 206 025	50 01 849 679	Fork	1	Old Type			●	●	●
32		1316 206 033	50 01 860 000	Fork	1	New Type			●	●	●
32		1316 206 026		Fork	1	Old Type				●	
32		1316 206 034		Fork	1	New Type				●	
32		1316 206 027		Fork	1	Old Type				●	
32		1316 206 035		Fork	1	New Type				●	
33		1315 206 003		Fork	1			●			
33		1315 206 023	50 01 842 950	Fork	1			●			
33		1316 206 013	50 01 848 889	Fork	1				●	●	●
33		1316 206 014		Fork	1					●	
34	141.163	1297 306 120	50 01 831 828	Slide	2	Old Type		●	●	●	●
34	141.168	1316 306 015	50 01 859 283	Slide	2	New Type		●	●	●	●
35		1315 312 017	50 01 843 023	Fork	1	Old Type		●	●	●	●
35		1315 312 074		Fork	1	New Type		●	●	●	●
36		1315 312 049	50 01 843 022	Rod	1	Standard		●			
36		1315 312 022		Rod	1	Extended		●			
36		1316 312 016	50 01 848 894	Rod	1	Standard			●	●	●
36		1316 312 008		Rod	1	Extended				●	
37		0750 112 131	50 01 843 024	Cap Collar D.25x40x15	1	Standard		●	●	●	●
38	139.331	0750 112 034	50 00 289 801	Cap Collar D.25x38x14,2	1	Extended		●		●	
39		1315 312 020	50 01 843 025	Piston	1			●	●	●	●
40		1315 312 048	50 01 843 028	Cylinder	1			●			

## Notes

(4) 16S181 Special GP Version. This version use 16S151 GP items.  
For this version use items marked (4) together.

## Date

03 / 2006

## Table

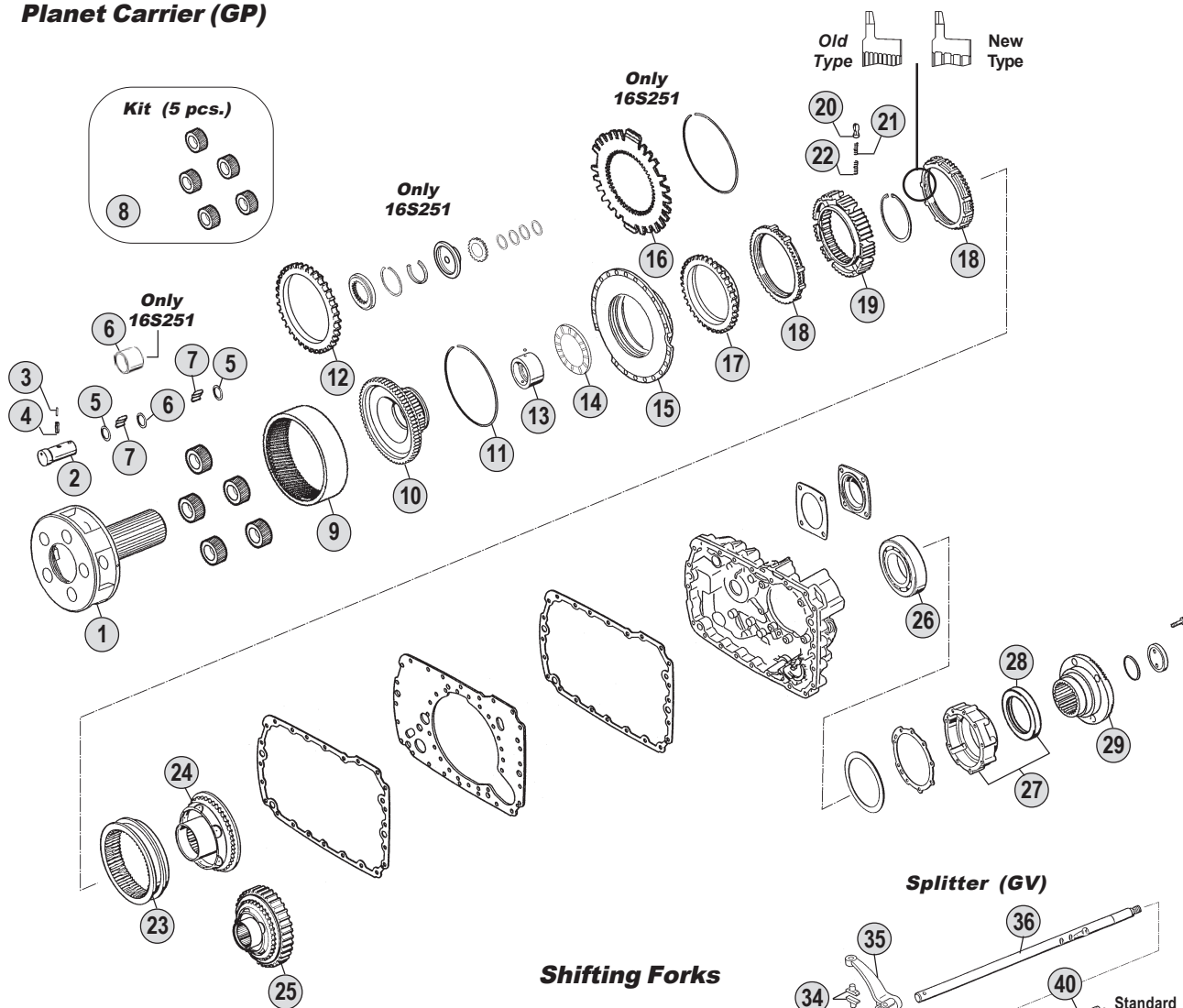
017 / B

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Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

**Planet Carrier (GP)**

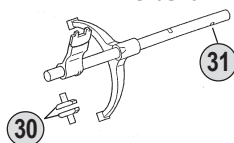


**Shifting Forks**

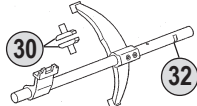
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 50</b>	<b>Kit 51</b>	<b>Kit 52</b>

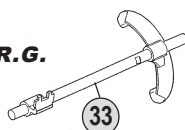
**4th/3rd**



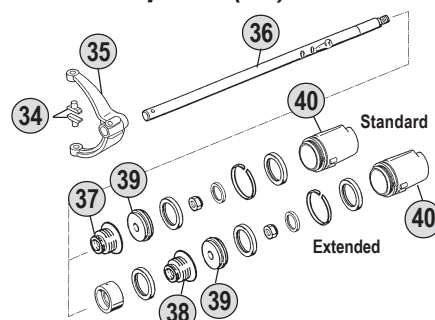
**2nd/1st**



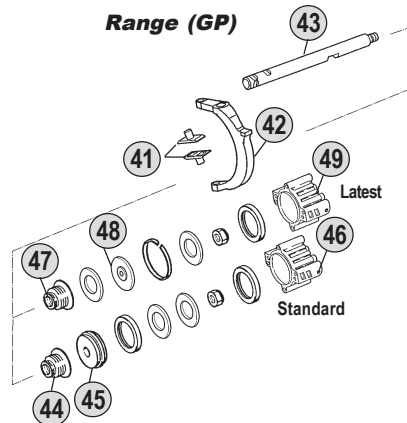
**R.G.**



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S151</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S181</b>	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S221</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S251</b>	A: --	B: 13,80 - 0,84	C: --	D: --	E: --

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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	R.V.I. no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)		
40		1316 312 015	50 01 848 895	Cylinder	1			●	●	●			
41	141.085	1296 334 004	50 00 289 841	Bronze Slide	2			●	●	●	●		
42		1315 334 039	50 01 843 074	Fork	1			●	●	●	●		
43		1315 334 058	50 01 855 100	Rod	1			●					
43		1316 334 010	50 01 855 186	Rod	1				●	●			
43		1316 334 011		Rod	1						●		
44	139.331	0750 112 034	50 00 289 801	Cap Collar D.25x38x14,2	1	Standard Type		●		●			
45	189.422	1296 334 039	50 00 289 835	Piston	1	Standard Type		●		●			
46		1315 334 021		Cylinder	1	Standard Type		●		●			
47		0750 112 131	50 01 843 024	Cap Collar D.25x40x15	1	Latest Type		●	●	●	●		
48		1315 334 034	50 01 843 135	Piston	1	Latest Type		●	●	●	●		
49		1315 334 056	50 01 849 893	Cylinder	1	Latest Type		●	●	●	●		
50	198.339	1268 298 938		Spring Slide Set	1			●	●	●	●		
51	198.564	CEI 198564		Spring Slide Set	1			●	●	●	●		
52	198.842	1295 298 933		Spring Slide Set	1			●	●	●	●		
53	198.838	1315 298 002	50 01 843 156	Oil Seal Kit	1			●	●	●	●		
54	198.797	1315 298 001	50 01 843 157	Gasket Kit	1			●	●	●	●		

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**ECO III**  
From 16S151  
To 16S251

## Notes

(4) 16S181 Special GP Version. This version use 16S151 GP items.  
For this version use items marked (4) together.

## Date

03 / 2006

## Table

017 / B



# Gearboxes Index

## EcoSplit I

**16K160**

**16S112**

**16S130**

**16S160**

**16S190**

**16S112/1**

**16S130/1**

**16S160/1**

## EcoSplit II

**16S150**

**16S220**

## EcoSplit III

**16S151**

**16S181**

**16S221**

**16S251**

**DAF  
INDEX**



suitable to :

**Z.F.****EcoSplit I****From 16K130 to 16K190****Application**

	16K130 (1295)	16K160 (1297)	16K190 (1297)
<b>MERCEDES</b>			
<b>M.A.N.</b>			
<b>IVECO</b>			
<b>R.V.I.</b>			
<b>DAF</b>			
<b>VOLVO</b>			

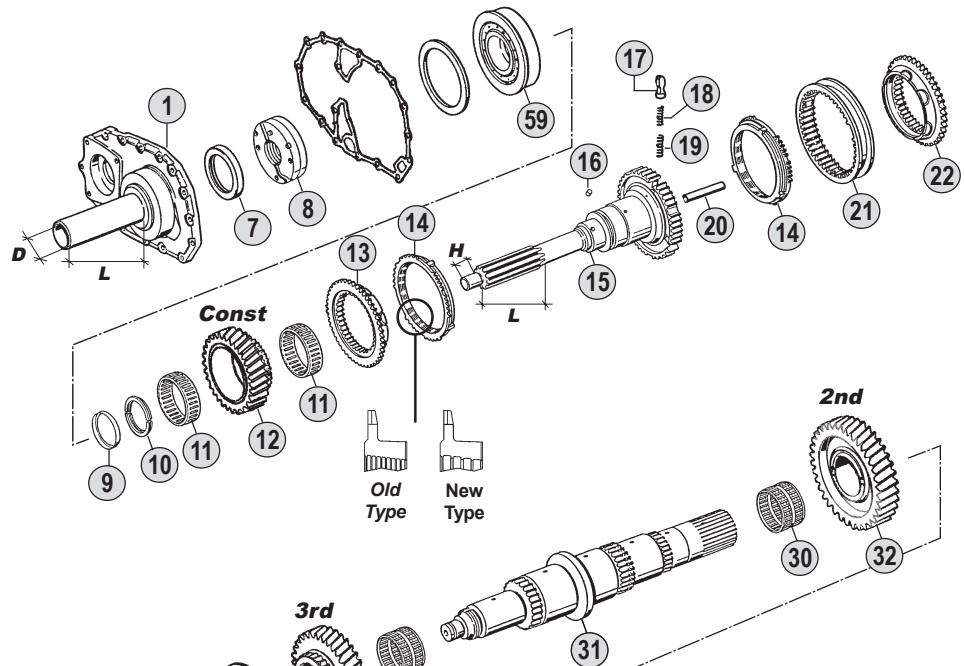
**Ratios**

	R.11,46-0,85 <b>A</b>	R.13,68-1,00 <b>B</b>	R.14,29-0,82 <b>C</b>
<b>16K130</b>			
<b>16K160</b>			
<b>16K190</b>			

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**ECO I**  
**16K160**

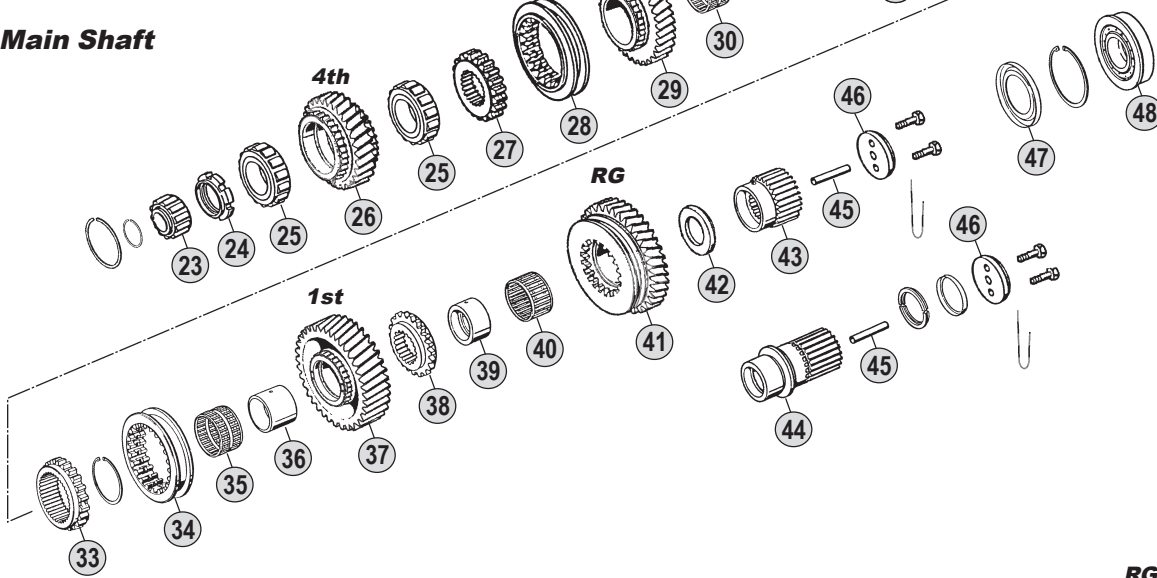
**Input Shaft**



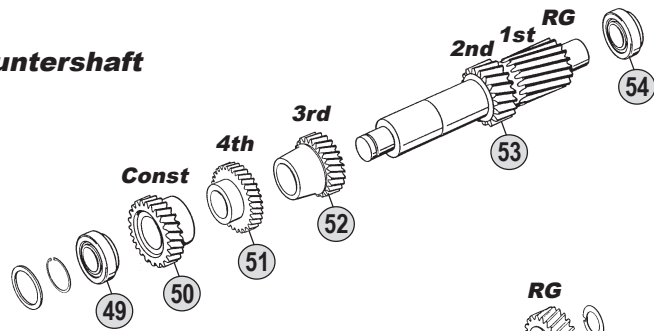
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 60</b>	<b>Kit 61</b>	<b>Kit 62</b>

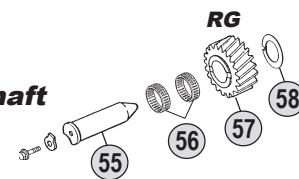
**Main Shaft**



**Countershaft**



**Reverse Shaft**



**Ratios**

16K160 A : 11,46 - 0,85 B : 13,68 - 1,00 C : 14,29 - 0,82 D : -- E : --

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					DAF no.	16K160						
1		1297 302 013	692071	Front Cover	1	L=170 - D=57	●							
7		0750 111 002	609458	Oil Seal 48x75x8	1		●							
8	<b>280.348</b>	1295 202 041	692203	Oil Pump	1		●							
9	169.754	0730 061 816	609456	Securing Ring	1		●							
9	169.755	0730 062 579	698621	Securing Ring	1	S.4,20 mm	●							
10		0730 103 244	609454	Split Ring T.4,30 mm	1	S.4,30 mm (4)	●							
10		0730 103 935	692202	Split Ring T.3,80 mm	1	S.3,80 mm (4)	●							
10		0730 105 156	698685	Split Ring T.4,00 mm	1	S.4,00 mm (5)	●							
10		0730 105 154		Split Ring T.3,80 mm	1	S.3,80 mm (5)	●							
11	137.153	0735 320 896	698642	Needle Cage D.88x96x29	2		●							
12	<b>145.466</b>	1297 302 177	67076	Constant Gear 30 T	1		A	●						
12	<b>145.406</b>	1297 302 176	66359	Constant Gear 28 T	1		B	●						
12	<b>145.405</b>	1297 302 250	1327921	Constant Gear 29 T	1		C	●						
13	<b>109.072</b>	1295 304 278	692073	Synchronizer Cone	1			●						
14	<b>119.084</b>	1295 304 004	692075	Synchronizer Ring	2	Old Type		●						
14	<b>119.175</b>	1304 304 686		Synchronizer Ring	2	New Type		●						
15	102.245	1297 202 004	691379	Input Shaft	1	L=115 H=32		●						
16		0635 470 012	110478	Pin	1			●						
17	<b>160.116</b>	1240 304 278	326962	Pressure piece	3			●						
18	<b>156.036</b>	0732 040 386	326964	Inner Spring De.3x34	3			●						
19	<b>156.037</b>	0732 040 385	326963	Outer Spring De.6x34	3			●						
20	188.208	0730 062 323		Oil Tube	1			●						
21	<b>154.097</b>	1295 304 002	692074	Sliding Sleeve	1			●						
22	<b>109.072</b>	1295 304 278	692073	Synchronizer Cone	1			●						
23	137.113	0750 118 038	1336466	Roller Cage D.35x68x27,50	1			●						
24	187.412	0737 502 092	692208	Grooved Nut M60x1,5	1			●						
25	137.083	0750 118 005	692209	Roller Cage D.63x97,5x34,80	2			●						
26	145.529	1297 304 128		Gear 4th Speed 28 T	1		A	●						
26	<b>145.420</b>	1297 304 127		Gear 4th Speed 30 T	1		B	●						
26	145.530	1297 304 258	67568	Gear 4th Speed 29 T	1		C	●						
27	<b>157.195</b>	1297 304 188	67566	Fixed Hub 4th-5th Speed	1			●						
28	<b>154.189</b>	1297 304 120	67567	Sliding Sleeve	1			●						
29	145.531	1297 304 116	67565	Gear 3rd Speed 32 T	1		AC	●						
29	<b>145.468</b>	1297 304 115		Gear 3rd Speed 34 T	1		B	●						
30	137.084	0735 320 418	692205	Needle Cage D.82x90x49	2			●						
31	103.134	1297 304 179		Main Shaft	1		AB	●						
31	103.139	1297 304 264		Main Shaft	1		C	●						
32	145.532	1297 304 113		Gear 2nd Speed 37 T	1		AC	●						
32	<b>145.467</b>	1297 304 112		Gear 2nd Speed 38 T	1		B	●						
33	<b>157.197</b>	1295 304 235	67560	Fixed Hub 1st-2nd Speed	1			●						
34	<b>154.188</b>	1297 304 119	67561	Sliding Sleeve	1			●						
35	137.161	0735 320 568	67563	Needle Cage D.82x90x53	1			●						
36	117.317	1297 304 055		Bush	1			●						
37	145.534	1297 304 151		Gear 1st Speed 44 T	1		AC	●						
37	<b>145.469</b>	1297 304 150		Gear 1st Speed 47 T	1		B	●						

## Notes

- (4) To be coupled together with Fig. 9 - 0730 061 816  
 (5) To be coupled together with Fig. 9 - 0730 062 579

## Date

03 / 2006

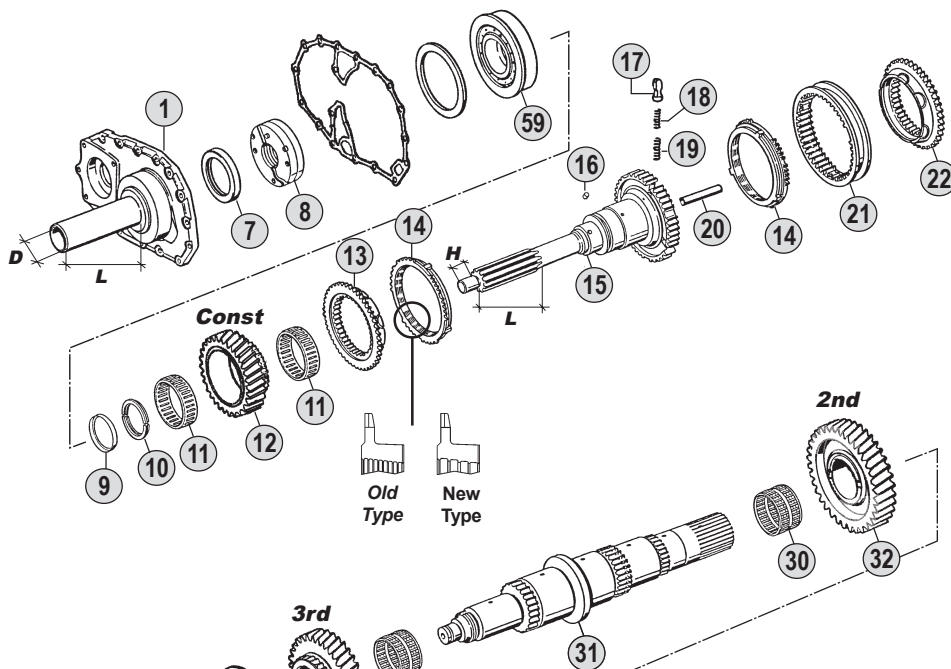
## Table

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Suitable To : **ZF**

**16K160**

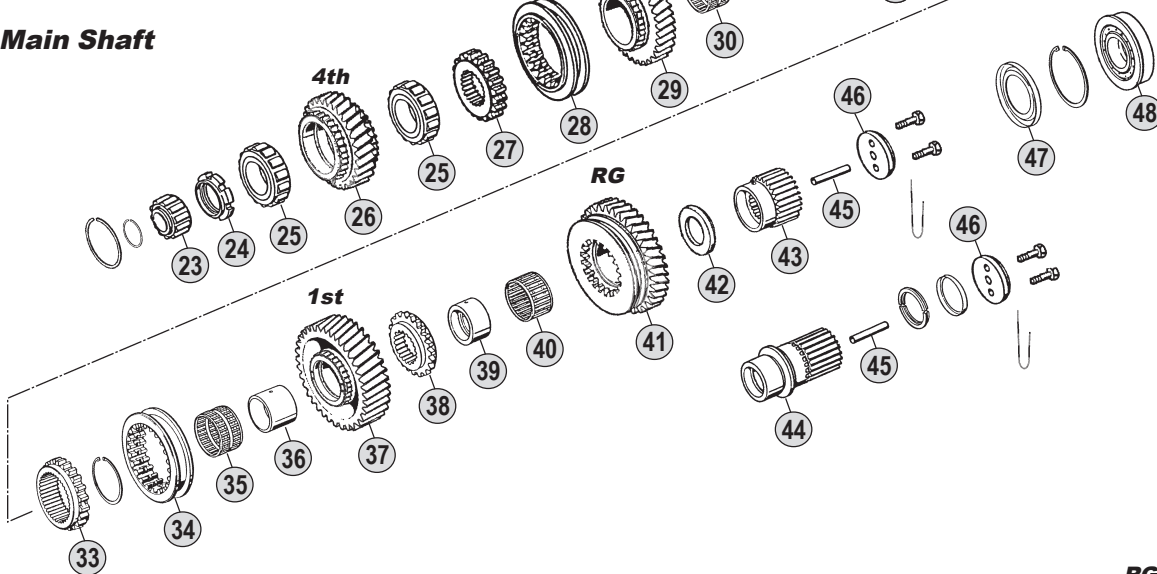
**Input Shaft**



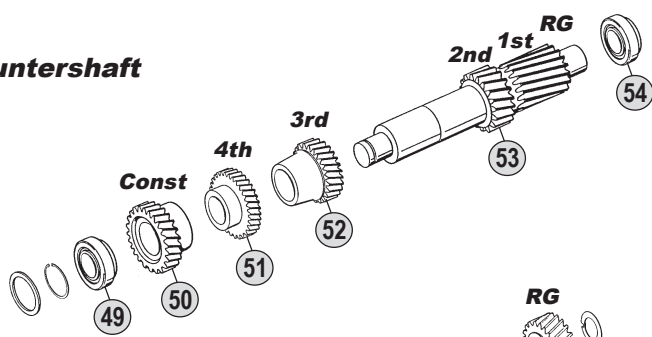
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 60</b>	<b>Kit 61</b>	<b>Kit 62</b>

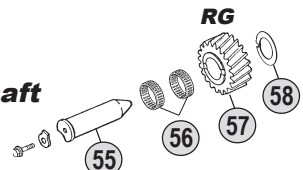
**Main Shaft**



**Countershaft**



**Reverse Shaft**



**Ratios**

16K160 A : 11,46 - 0,85 B : 13,68 - 1,00 C : 14,29 - 0,82 D : -- E : --

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Fig.	O.E.M. Reference			Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.	DAF no.					16K160	1297					
38	109.178	1297 304 154	689293	Engaging Ring	1			●						
39	117.318	1297 304 034	691391	Bush	1		AB	●						
40	137.111	0735 320 486	691353	Needle Cage D.78x86x44	1			●						
41	147.109	1297 304 149	67083	Reverse Gear 39 T	1		AC	●						
41	147.140	1297 304 148	689294	Reverse Gear 38 T	1		B	●						
42	169.758	1297 304 177		Thrust Washer	1		AB	●						
43	157.177	1297 304 187	66377	Sun Gear 27 T	1		AB	●						
44	157.206	1297 304 265	67569	Sun Gear 24 T	1		C	●						
45		0730 061 842	692222	Oil Tube	1			●						
46	188.076	1272 304 021	609466	Stop Washer	1			●						
47		1295 304 129	692066	Oil Collector	1		AB	●						
47		1297 301 004	691381	Oil Collector	1		C	●						
48	130.240	0750 118 153	69105	Bearing D.60x130x31	1		AB	●						
48		0750 118 137	67052	Bearing 80x140x26	1		C	●						
49	130.242	0750 117 010	692181	Bearing D.50,80x100x35	1			●						
50	146.383	1297 303 074	67079	Constant Gear 31 T	1		A	●						
50	146.322	1297 303 066	66361	Constant Gear 34 T	1		B	●						
50	146.319	1297 303 098	1327922	Constant Gear 32 T	1		C	●						
51	146.382	1297 303 072	67080	Gear 4th Speed 34 T	1		A	●						
51	146.381	1297 303 065	66362	Gear 4th Speed 31 T	1		B	●						
51	146.447	1297 303 114		Gear 4th Speed 39 T	1		C	●						
52	146.446	1297 303 081	1360741	Gear 3rd Speed 28 T	1		AC	●						
52	146.380	1297 303 077		Gear 3rd Speed 25 T	1		B	●						
53	105.116	1297 303 048	67554	Countershaft 19-23 T	1		AC	●						
53	105.091	1297 303 047		Countershaft 17-20 T	1		B	●						
54	130.243	0750 117 008	692180	Bearing D.50x110x42	1			●						
55	107.108	1295 305 056	692068	Reverse Gear Pin	1			●						
56	137.007	0750 115 011	584385	Needle Cage D.45x53x21	2			●						
57	147.133	1295 305 051	691719	Reverse Gear 21 T	1		AC	●						
57	147.094	1295 305 052	689290	Reverse Gear 24 T	1		B	●						
58	169.234	0730 150 064	584383	Thrust Washer	1			●						
59	130.305	0750 118 131	692179	Bearing D.80x150x27,50	1			●						
60	198.339	1268 298 938		Spring Slide Set	1			●						
61	198.564	CEI 198564		Spring Slide Set	1			●						
62	198.842	1295 298 933		Spring Slide Set	1			●						

## Notes

- (4) To be coupled together with Fig. 9 - 0730 061 816  
 (5) To be coupled together with Fig. 9 - 0730 062 579

## Date

03 / 2006

## Table

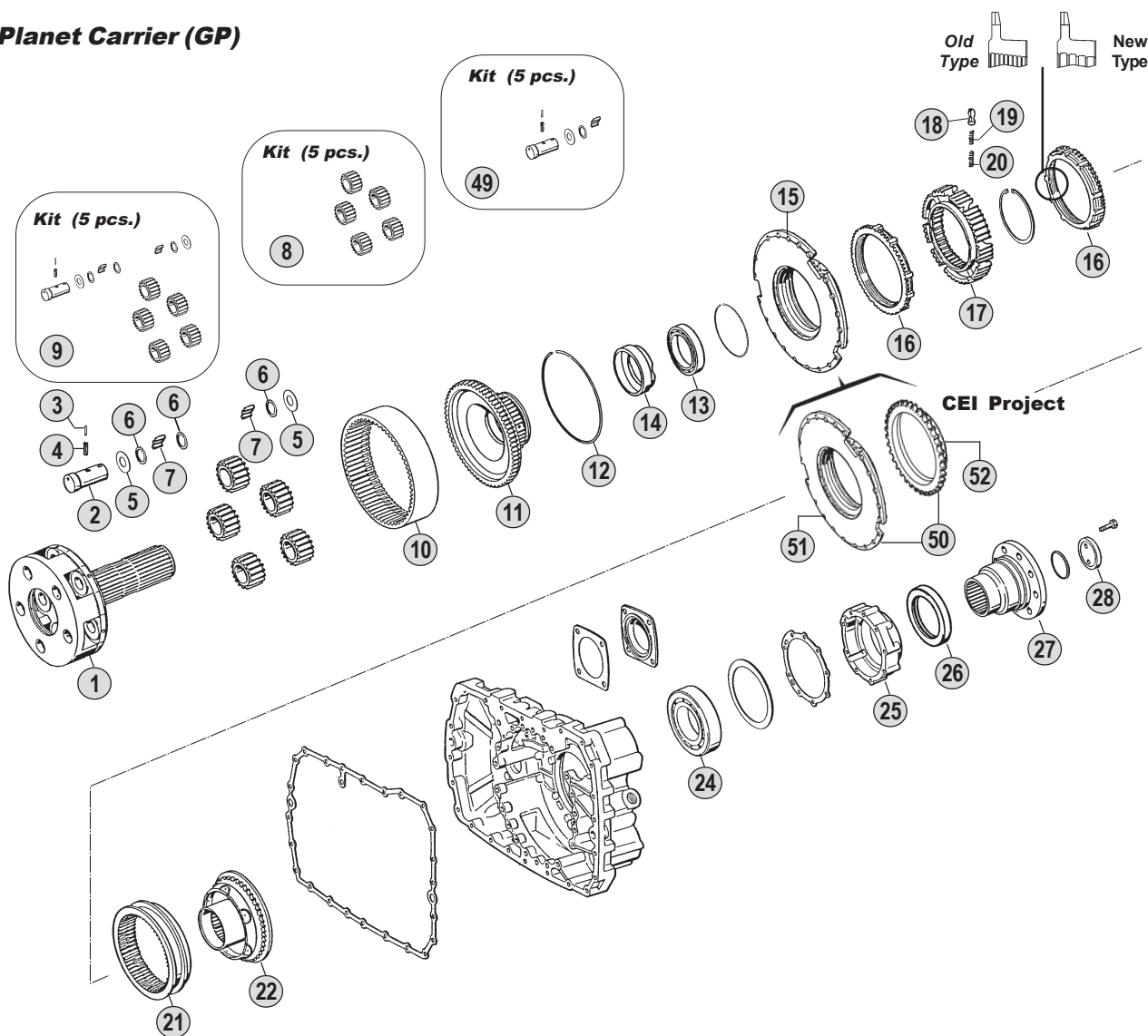
018 / A

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Suitable To : **ZF**

**16K160**

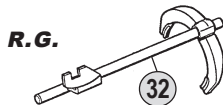
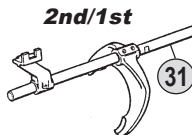
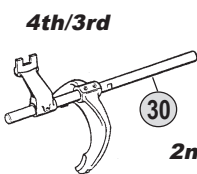
**Planet Carrier (GP)**



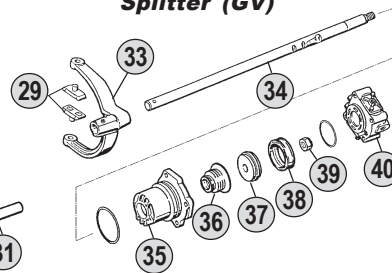
**Shifting Forks**

**Springs & Slide Kits**

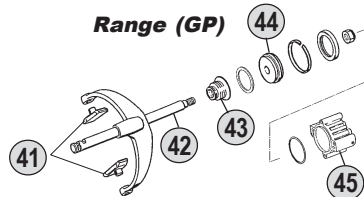
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>



**Splitter (GV)**



**Range (GP)**



**Ratios**

16K160 A:11,46 - 0,85 B: 13,68 - 1,00 C:14,29 - 0,82 D:-- E:--

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	DAF no.										
1	190.396	1297 232 039	66391	Planetary Carrier	1		AB	●					
1	190.395	1297 232 045	67062	Planetary Carrier	1		C	●					
2	107.163	1297 332 109	691407	Planet Shaft	5			●					
3	160.191	0631 329 017		Lock Pin D.3x24	5			●					
4	160.192	0631 329 050		Lock Pin D.5x24	5			●					
5	169.753	0501 306 212	691327	Thrust Washer D.29x64x1,5	10			●					
6	<b>169.410</b>	0730 103 846	692246	Spacer Ring D.29x39x1,00	15			●					
7	171.045	0750 119 109	691356	Roller Set D.10x16,80 (120 pcs)	120			●					
8	198.803	1297 232 023	66390	Planetary Gear Set (5 pcs)	1		AB	●					
8	198.810	1297 232 024	691380	Planetary Gear Set (5 pcs)	1		C	●					
9	<b>198.704</b>	1297 298 912		Planetary Gear Set	1		AB	●					
9		1297 298 919		Planetary Gear Set	1		C	●					
10	123.217	1297 332 080	66393	Crown Gear 83 T	1		AB	●					
10	123.208	1295 332 086	69091	Crown Gear 86 T	1		C	●					
11	150.138	1297 332 017	66392	Flange Gear 83 T	1		AB	●					
11	150.137	1297 332 035	691409	Flange Gear 86 T	1		C	●					
12	111.129	0730 505 055	692259	Locking Wire	1		AB	●					
12	111.198	0730 505 056	691340	Locking Wire	1		C	●					
13	130.310	0750 116 165	69395	Bearing D.80x110x16	1			●					
14		1297 332 002	1300625	Ring	1			●					
15	<b>198.358</b>	1296 233 006	689812	Synchronizer Cone	1			●					
16	<b>119.085</b>	1296 333 022	1303708	Synchronizer Ring	2	Old Type		●					
16	<b>119.172</b>	1296 333 045	1354113	Synchronizer Ring	2	New Type		●					
17	<b>157.113</b>	1296 333 002	692167	Synchronizer Hub	1			●					
18	<b>160.116</b>	1240 304 278	326962	Pressure Piece	9			●					
19	<b>156.036</b>	0732 040 386	326964	Inner Spring De.3x34	9			●					
20	<b>156.037</b>	0732 040 385	326963	Outer Spring De.6x34	9			●					
21	<b>154.098</b>	1296 333 023	689814	Sliding Sleeve	1			●					
22	<b>198.374</b>	1313 233 001	691378	Synchronizer Cone (38 Spl.)	1			●					
24	130.245	0750 116 002	692184	Bearing D.90x160x30	1			●					
25		1296 301 067	513935	Cover	1			●					
26		0750 111 341	1304242	Oil Seal 105x130x12	1			●					
27		1297 338 041	689335	Output Flange	1	D.180-4 H.		●					
27		1297 338 010	691412	Output Flange	1	D.180-10 H.		●					
28	188.077	1295 332 051	696097	Stop Washer	1			●					
29	<b>141.068</b>	1295 306 132	696445	Bronze Slide	2			●					
30		1297 206 077		Fork	1			●					
30		1297 206 083		Fork	1			●					
31		1297 206 076		Fork	1			●					
31		1297 206 082		Fork	1			●					
32		1297 206 172		Fork	1			●					
32		1297 206 173	67572	Fork	1			●					
32		1297 206 184		Fork	1			●					
33		1313 312 002	689936	Fork	1			●					
34		1297 312 007		Rod	1			●					

Notes

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Table

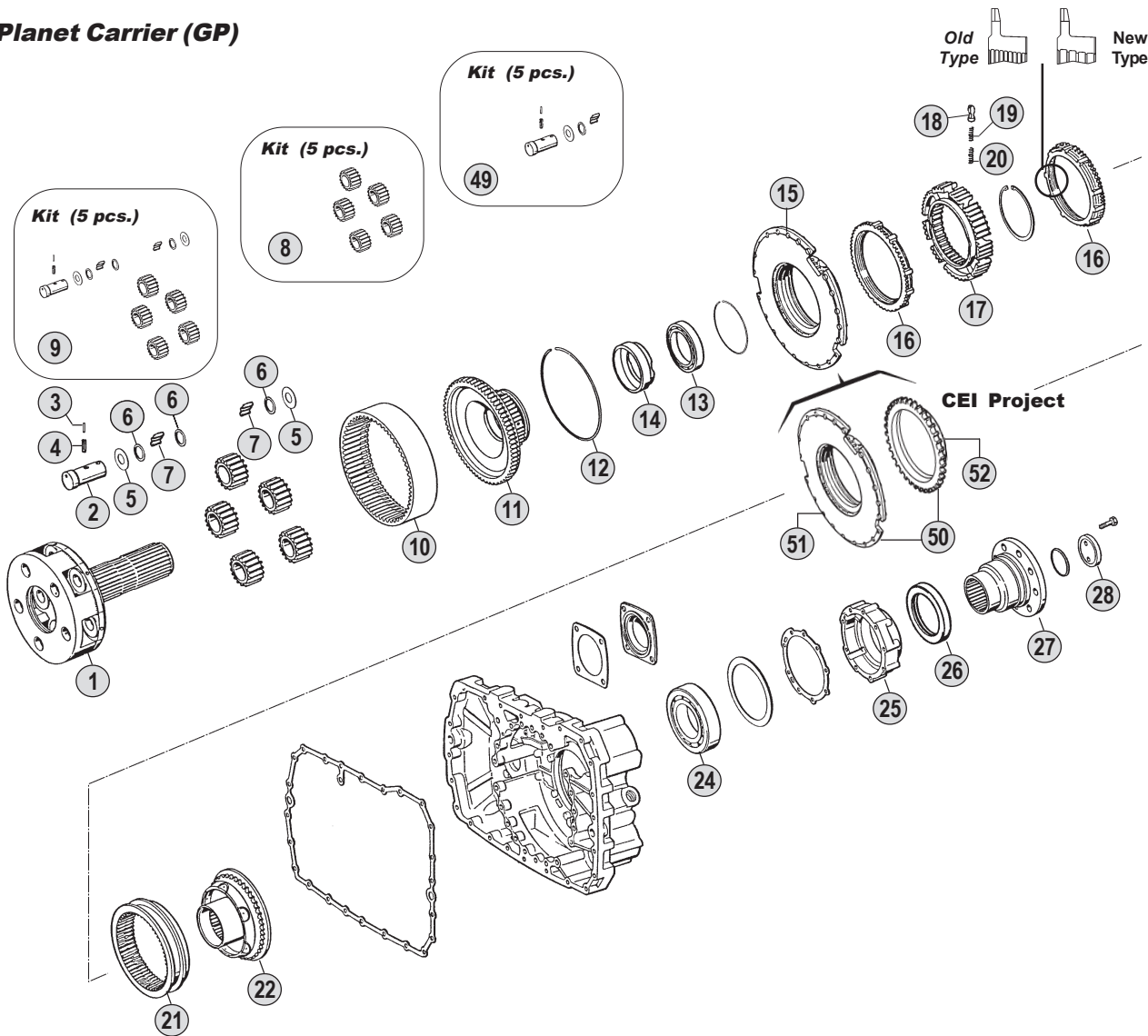
018 / B

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Suitable To : **ZF**

**16K160**

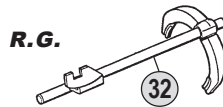
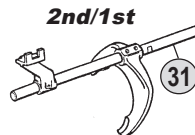
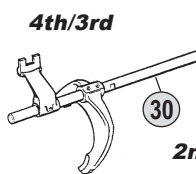
**Planet Carrier (GP)**



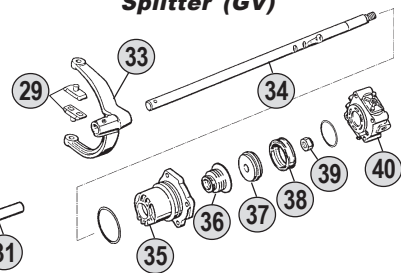
**Shifting Forks**

**Springs & Slide Kits**

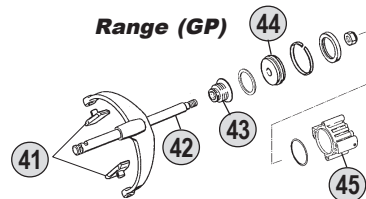
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>



**Splitter (GV)**



**Range (GP)**



**Ratios**

**16K160** A:11,46 - 0,85 B: 13,68 - 1,00 C:14,29 - 0,82 D:-- E:--

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio										
	CEI no.	ZF no.														DAF no.
35	<b>132.046</b>	1296 312 042	692130	<i>Cylinder</i>	1		●									
36	139.331	0750 112 034	692237	<i>Cap Collar D.25x38x14,2</i>	1		●									
37	189.421	1296 312 053	69363	<i>Piston</i>	1		●									
38		0750 112 089	66388	<i>Ring 53x63x16,2</i>	1		●									
39		0737 006 095	1291087	<i>Nut</i>	1		●									
40		0750 132 032	67061	<i>Cylinder</i>	1		●									
40		0750 132 033	692239	<i>Cylinder</i>	1		●									
40	280.350	1295 212 008		<i>Cylinder</i>	1		●									
41	<b>141.085</b>	1296 334 004	692175	<i>Bronze Slide</i>	2		●									
42	149.171	1312 234 002	1246847	<i>Fork Lever</i>	1		●									
43	139.331	0750 112 034	692237	<i>Cap Collar D.25x38x14,2</i>	1		●									
44	189.422	1296 334 039	699798	<i>Piston</i>	1		●									
45	<b>132.047</b>	1295 334 075	68348	<i>Cylinder</i>	1		●									
46	<b>198.339</b>	1268 298 938		<i>Spring Slide Set</i>	1		●									
47	<b>198.564</b>	CEI 198564		<i>Spring Slide Set</i>	1		●									
48	<b>198.842</b>	1295 298 933		<i>Spring Slide Set</i>	1		●									
50	<b>198.856</b>	CEI 198856		<i>Synchronizer cone kit</i>	1	Can repl. fig. 15	●									
51	<b>135.128</b>	CEI 135128		<i>Saddle Plate</i>	1	Use with fig. 52	●									
52	<b>109.174</b>	1296 333 050	1377131	<i>Synchronizer Cone</i>	1	Use with fig. 51	●									

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Notes

Date

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Table

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suitable to :

**Z.F.****EcoSplit I****From 16S112 to 16S190****Application**

	<b>16S112</b>	<b>16S130</b>	<b>16S160</b>	<b>16S190</b>
	(1296)	(1295)	(1297)	(1297)
<b>MERCEDES</b>				
<b>M.A.N.</b>				
<b>IVECO</b>				
<b>R.V.I.</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**Ratios**

	<b>R.10,14-0,72</b>	<b>R.11,46-0,85</b>	<b>R.13,68-1,00</b>	<b>R.14,29-0,82</b>	<b>R.17,06-1,00</b>
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>16S112</b>					
<b>16S130</b>					
<b>16S160</b>					
<b>16S190</b>					

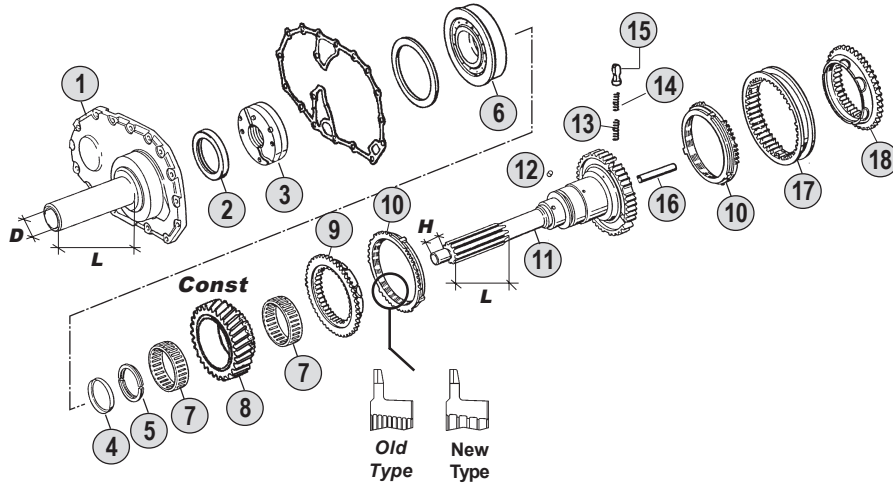
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**ECO I**  
From 16S112  
To 16S190

Suitable To : **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

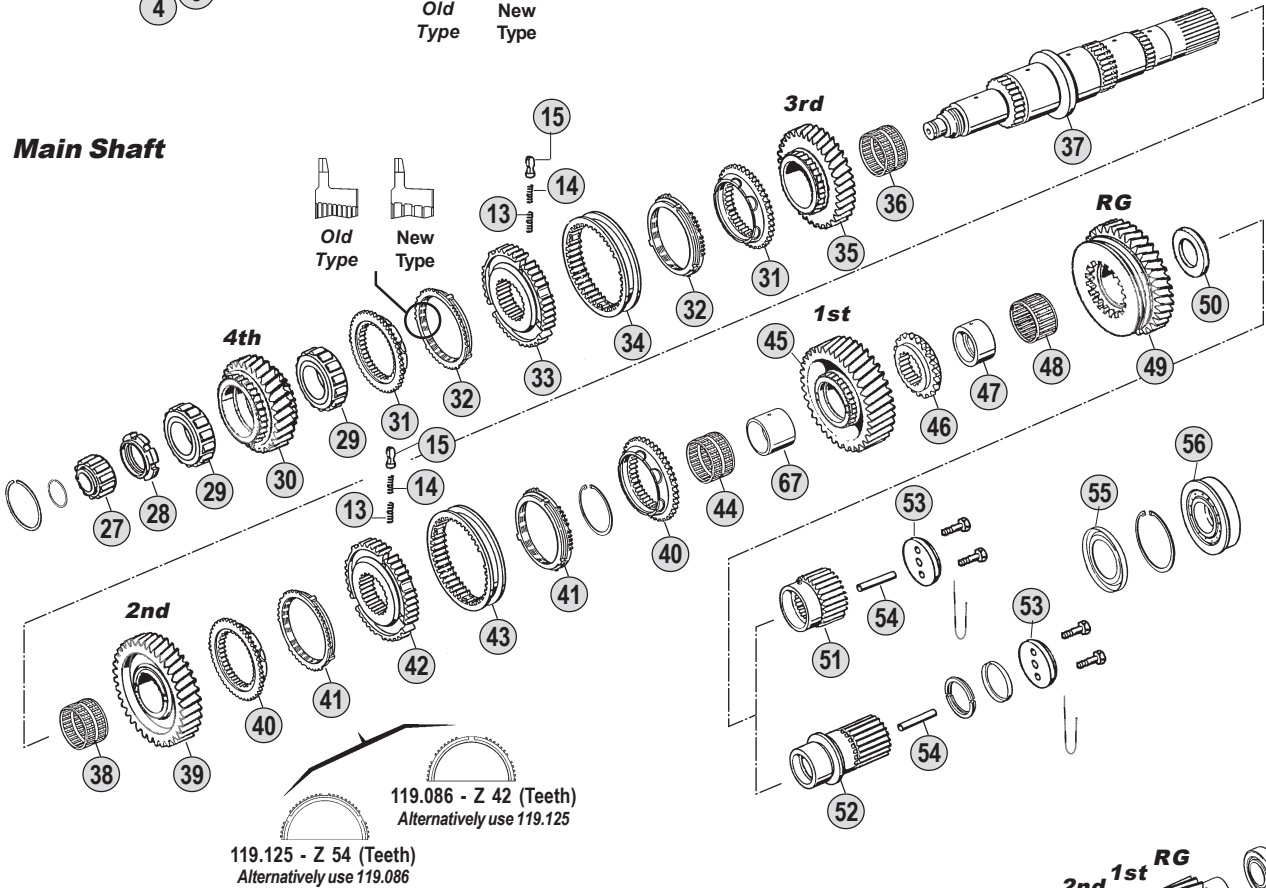
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

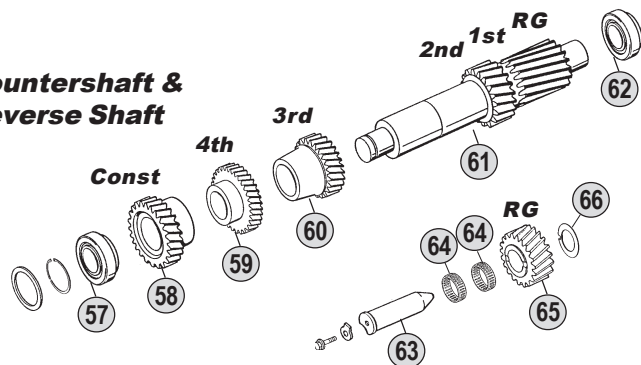
**Main Shaft**



**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: --	E:--
<b>16S130</b>	A:10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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16S112 (1296)  
16S130 (1295)  
16S160 (1297)  
16S190 (1297)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.					DAF no.	16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)
1		1297 302 011	689901	Front Cover	1	L=147-D=57	●	●	●		
1		1297 302 013	692071	Front Cover	1	L=170-D=57	●	●	●	●	
2		0750 111 002	609458	Oil Seal 48x75x8	1		●	●	●	●	
2		0634 310 733	691662	Oil Seal 90x110x13	1	(1)	●	●			
3	<b>280.348</b>	1295 202 041	692203	Oil Pump	1		●	●	●	●	
4	169.754	0730 061 816	609456	Securing Ring	1		●	●	●	●	
4	169.755	0730 062 579	698621	Securing Ring	1	S.4,20 mm	●	●	●	●	
5		0730 103 244	609454	Split Ring T.4,30 mm	1	(2)	●	●	●	●	
5		0730 103 935	692202	Split Ring T.3,80 mm	1	(2)	●	●	●	●	
5		0730 105 156	698685	Split Ring T.4,00 mm	1	(3)	●	●	●	●	
5		0730 105 154		Split Ring T.3,80 mm	1	(3)	●	●	●	●	
6	130.305	0750 118 131	692179	Bearing D.80x150x27,50	1		●	●	●	●	
7	137.139	0735 320 799	696442	Needle Cage D.88x96x23	2		●				
7	137.082	0735 320 786	692204	Needle Cage D.88x96x24,50	2			●			
7	137.153	0735 320 896	698642	Needle Cage D.88x96x29	2				●	●	
8	145.535	1296 302 002	513774	Constant Gear 30 T	1		B	●			
8	<b>145.447</b>	1296 302 003	689902	Constant Gear 28 T	1		C	●			
8	<b>145.276</b>	1295 302 071	696921	Constant Gear 28 T	1		AC		●		
8	145.489	1295 302 070	692072	Constant Gear 30 T	1		B		●		
8	145.541	1295 302 122	67054	Constant Gear 29 T	1		D		●		
8	<b>145.466</b>	1297 302 177	67076	Constant Gear 30 T	1		B			●	●
8	<b>145.406</b>	1297 302 176	66359	Constant Gear 28 T	1		C			●	●
8	<b>145.405</b>	1297 302 250	1327921	Constant Gear 29 T	1		D			●	●
8	<b>145.407</b>	1297 302 241	1255960	Constant Gear 26 T	1		E			●	●
9	<b>109.072</b>	1295 304 278	692073	Synchronizer Cone	1			●	●	●	●
10	<b>119.084</b>	1295 304 004	692075	Synchronizer Ring	2	Old Type		●	●	●	●
10	<b>119.175</b>	1304 304 686		Synchronizer Ring	2	New Type		●	●	●	●
11	102.229	1296 202 006	689900	Input Shaft	1			●			
11		1296 221 001	696441	Input Shaft	1	NMV130 (Clutch PTO)		●			
11	102.230	1295 202 004	692069	Input Shaft	1	L=115H=32			●		
11	102.250	1295 202 005	67053	Input Shaft	1	L=95H=32			●		
11	102.252	1295 202 011		Input Shaft	1				●		
11		1295 221 001	1339458	Input Shaft	1	NMV130 (Clutch PTO)			●		
11	102.245	1297 202 004	691379	Input Shaft	1	L=115H=32				●	●
11	102.246	1297 202 052	66358	Input Shaft	1					●	
12		0635 470 012	110478	Pin	1			●	●	●	●
13	<b>156.037</b>	0732 040 385	326963	Outer Spring De.6x34	3			●	●	●	●
14	<b>156.036</b>	0732 040 386	326964	Inner Spring De.3x34	3			●	●	●	●
15	<b>160.116</b>	1240 304 278	326962	Pressure Piece	3			●	●	●	●
16	188.208	0730 062 323		Oil Tube	1			●	●	●	●
17	<b>154.097</b>	1295 304 002	692074	Sliding Sleeve	1			●	●	●	●
18	<b>109.072</b>	1295 304 278	692073	Synchronizer Cone	1			●	●	●	●
27	137.081	0750 118 010	692182	Roller Cage D.30x60x25,50	1			●	●		
27	137.113	0750 118 038	1336466	Roller Cage D.35x68x27,50	1					●	●
28	187.412	0737 502 092	692208	Grooved Nut M60x1,5	1			●	●	●	●

## Notes

- (1) Only for input Shaft 1295 221 001 - 1296 221 001  
 (2) To be coupled together with Fig. 4 - 0730 061 816  
 (3) To be coupled together with Fig. 4 - 0730 062 579  
 (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30) - Standard Syncro Ring Ø 192 mm (Z 63 or 54). Use items marked note (6) together  
 (7) Old Type having straight teeth. Use items marked (7) together.

## Date

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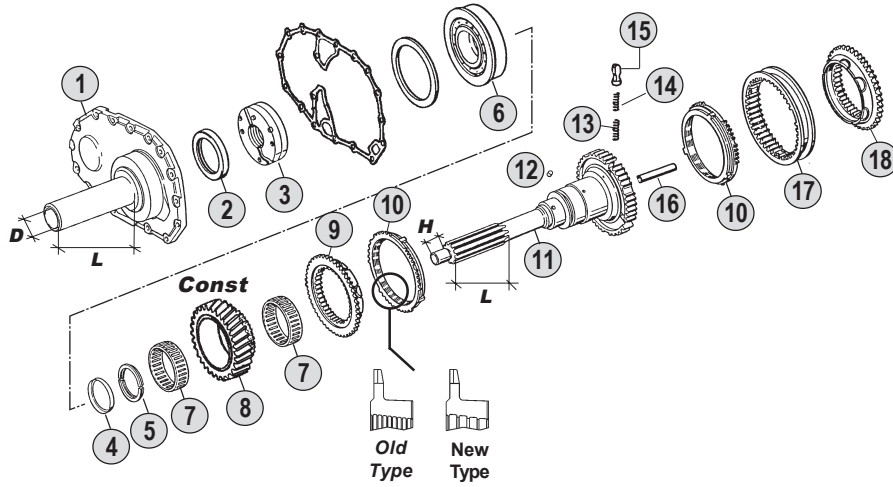
## Table

019 / A

Suitable To : **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

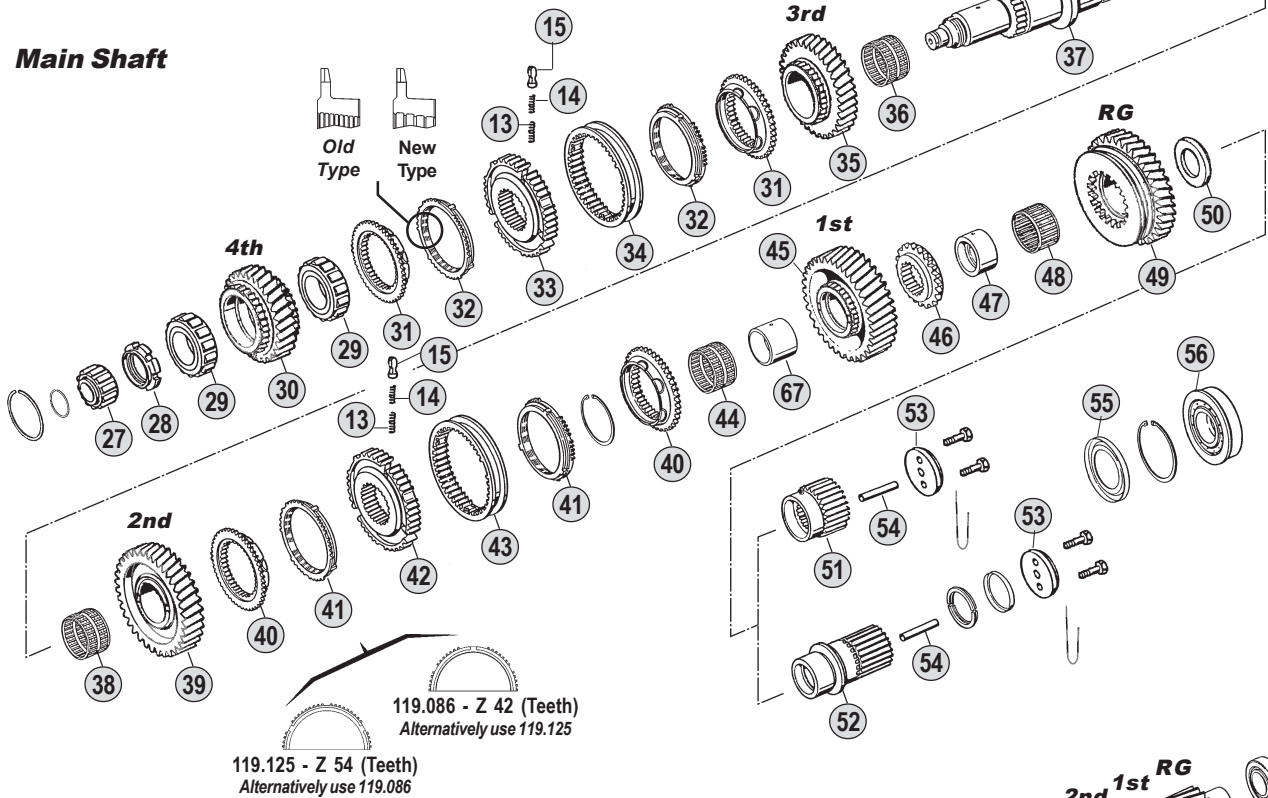
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

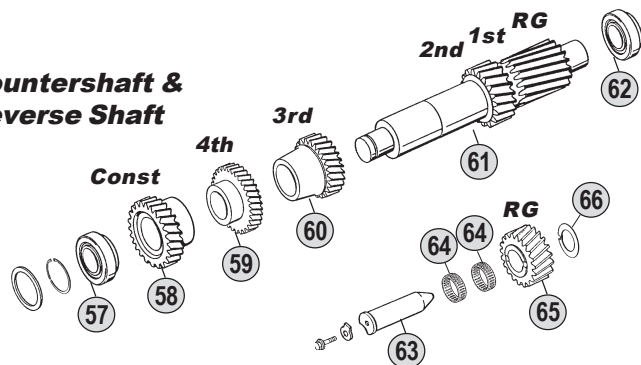
**Main Shaft**



**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: --	E:--
<b>16S130</b>	A:10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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## O.E.M. Reference

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	DAF no.					16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)	
29	137.155	0750 118 012	689918	Roller Cage D.63x97,5x31,7	2			●				
29	137.083	0750 118 005	692209	Roller Cage D.63x97,5x34,80	2			●				
29	137.157	0750 118 220	691359	Roller Cage D.63x97,5x37,50	2				●	●		
30	146.448	1296 304 091	513784	Gear 4th Speed 28 T	1		B	●				
30	146.362	1296 304 090	689919	Gear 4th Speed 30 T	1		C	●				
30	146.212	1295 304 135	696930	Gear 4th Speed 30 T	1		AC		●			
30	146.356	1295 304 136	692093	Gear 4th Speed 28 T	1		B		●			
30	146.454	1295 304 236	67059	Gear 4th Speed 26 T	1		D		●			
30	146.384	1297 304 267	67085	Gear 4th Speed 28 T	1		B			●	●	
30	146.318	1297 304 260	66376	Gear 4th Speed 30 T	1		C			●	●	
30	146.315	1297 304 318	1324219	Gear 4th Speed 26 T	1		D			●	●	
30	146.294	1297 304 413	1255966	Gear 4th Speed 29 T	1		E			●	●	
31	109.072	1295 304 278	692073	Synchronizer Cone	2			●	●	●	●	
32	119.084	1295 304 004	692075	Synchronizer Ring	2	Old Type		●	●	●	●	
32	119.175	1304 304 686		Synchronizer Ring	2	New Type		●	●	●	●	
33	157.110	1297 304 031	692083	Synchronizer Hub	1			●	●	●	●	
34	154.097	1295 304 002	692074	Sliding Sleeve	1			●	●	●	●	
35	145.536	1296 304 088		Gear 3rd Speed 32 T	1		B	●				
35	145.494	1296 304 087	689916	Gear 3rd Speed 34 T	1		C	●				
35		1295 304 269	696931	Gear 3rd Speed 25 T	1		A		●			
35	145.495	1295 304 127	692092	Gear 3rd Speed 32 T	1		BD		●			
35	145.277	1295 304 128	698133	Gear 3rd Speed 34 T	1		C		●			
35	145.470	1297 304 266	67084	Gear 3rd Speed 32 T	1		BD			●	●	
35	145.450	1297 304 261	66371	Gear 3rd Speed 34 T	1		C			●	●	
35	145.377	1297 304 414	1255965	Gear 3rd Speed 34 T	1		E			●	●	
36	137.158	0735 320 460	689910	Needle Cage D.82x90x46	1			●				
36	137.084	0735 320 418	692205	Needle Cage D.82x90x49	1				●			
36	137.112	0735 320 451	691351	Needle Cage D.82x90x60	1					●	●	
37	103.131	1296 304 119	689909	Main Shaft	1			●				
37		1295 304 273	696926	Main Shaft	1		A		●			
37	103.075	1295 304 245	692080	Main Shaft	1		BC		●			
37	103.140	1295 304 250	67057	Main Shaft	1		D		●			
37	103.132	1297 304 181	66363	Main Shaft	1		BC			●	●	
37	103.098	1297 304 193	689291	Main Shaft	1		DE			●	●	
38		0735 320 549	689917	Needle Cage D.82x90x42	1			●				
38	137.112	0735 320 451	691351	Needle Cage D.82x90x60	1		A		●			
38	137.084	0735 320 418	692205	Needle Cage D.82x90x49	1		BCD		●			
38	137.109	0735 320 452	691352	Needle Cage D.82x90x55	1					●	●	
39	145.537	1296 304 071		Gear 2nd Speed 37 T	1		B	●				
39	145.499	1296 304 070	689911	Gear 2nd Speed 38 T	1		C	●				
39		1295 304 271	696927	Gear 2nd Speed 34 T	1		A		●			
39	145.501	1295 304 120	692081	Gear 2nd Speed 37 T	1		BD		●			
39	145.278	1295 304 121	698314	Gear 2nd Speed 38 T	1		C		●			
39	145.500	1297 304 269	67081	Gear 2nd Speed 37 T	1		BD			●	●	
39	145.375	1297 304 442	691388	Gear 2nd Speed 38 T	1		CE			●	●	

## Notes

- (1) Only for input Shaft 1295 221 001 - 1296 221 001
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30) - Standard Syncro Ring Ø 192 mm ( Z 63 or 54). Use items marked note (6) together
- (7) Old Type having straight teeth. Use items marked (7) together.

## Date

03 / 2006

## Table

019 / A

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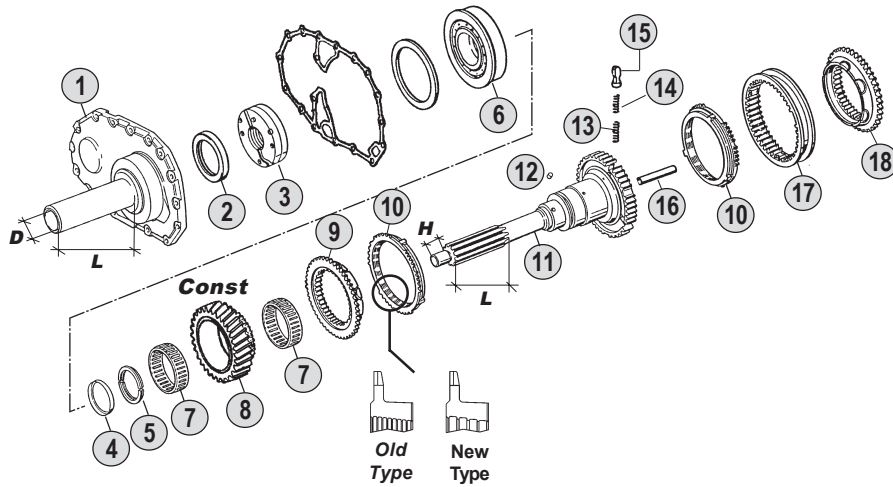


**ECO I**  
From 16S112  
To 16S190

Suitable To : **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

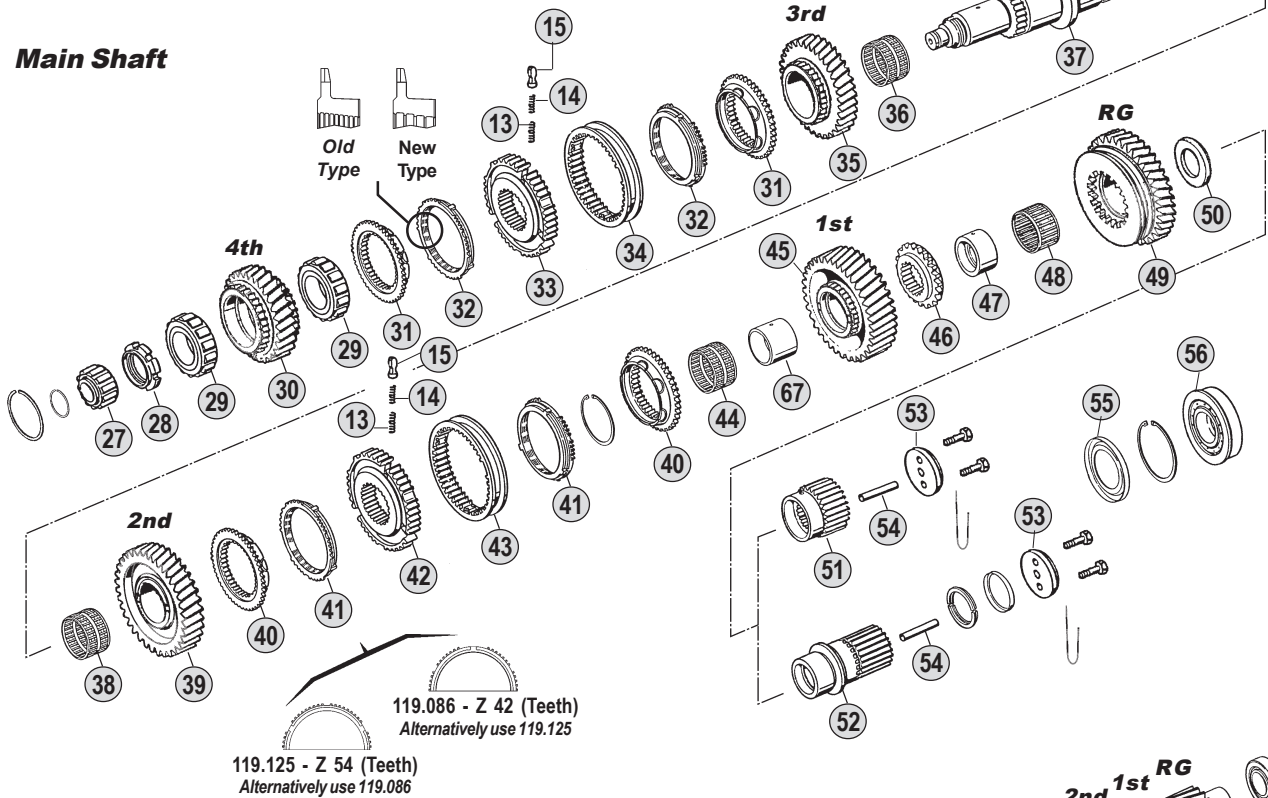
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

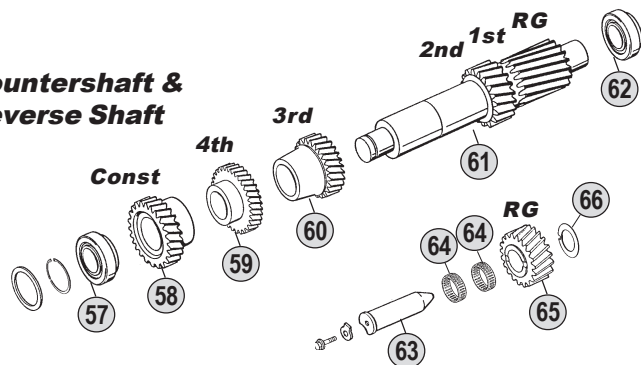
**Main Shaft**



**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: --	E:--
<b>16S130</b>	A:10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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16S112 (1296)  
16S130 (1295)  
16S160 (1297)  
16S190 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	DAF no.					16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)		
40	109.074	1297 304 196	696345	Synchronizer Cone	2			●	●	●	●		
40	109.072	1295 304 278	692073	Synchronizer Cone	2	(6)		●	●				
41	119.125	1296 304 135	1296006	Synchronizer Ring	2	Z 54 - Alt. use 119.086		●	●	●	●		
41	119.086	1246 304 278	696344	Synchronizer Ring 42 T	2	Z 42 - Alt. use 119.086		●	●	●	●		
41	119.084	1295 304 004	692075	Synchronizer Ring	2	(6)		●	●				
42	157.111	1297 304 195	696343	Synchronizer Hub	1			●	●	●	●		
42	157.110	1297 304 031	692083	Synchronizer Hub	1	(6)		●	●				
43	154.051	1257 304 020	264214	Sliding Sleeve 1st-2nd Speed	1			●	●	●	●		
43	154.097	1295 304 002	692074	Sliding Sleeve	1	(6)		●	●				
44	137.159	0735 320 548	689912	Needle Cage D.70x78x46	1			●					
44	137.159	0735 320 548	689912	Needle Cage D.70x78x46	1		A		●				
44	137.085	0735 320 496	692206	Needle Cage D.70x78x55	1		BCD		●				
44	137.110	0735 320 487	691354	Needle Cage D.82x90x68	1					●	●		
45	145.538	1296 304 100		Gear 1st Speed 44 T	1		B	●					
45	145.505	1296 304 099	689913	Gear 1st Speed 47 T	1		C	●					
45		1295 304 270	696928	Gear 1st Speed 41 T	1		A		●				
45	145.506	1295 304 203	691791	Gear 1st Speed 44 T	1		BD		●				
45	145.545	1295 304 123	692087	Gear 1st Speed 44 T	1	(7)	B		●				
45	145.279	1295 304 202	698135	Gear 1st Speed 47 T	1		C		●				
45	145.507	1297 304 270	67082	Gear 1st Speed 44 T	1		BD			●	●		
45	145.376	1297 304 441	689292	Gear 1st Speed 47 T	1		CE			●	●		
46	109.075	1295 304 206	691792	Engaging Ring	1			●					
46	109.184	1295 304 024	692088	Engaging Ring	1		A		●				
46	109.075	1295 304 206	691792	Engaging Ring	1		BCD		●				
46	109.184	1295 304 024	692088	Engaging Ring	1	(7)	B		●				
46	109.178	1297 304 154	689293	Engaging Ring	1					●	●		
47	117.203	1295 304 012	692089	Bush D.60x75x38	1			●					
47	117.203	1295 304 012	692089	Bush D.60x75x38	1		ABC		●				
47	117.318	1297 304 034	691391	Bush	1		BC			●	●		
48	137.086	0750 115 059	692207	Needle Cage D.75x83x40	1			●	●				
48	137.111	0735 320 486	691353	Needle Cage D.78x86x44	1					●	●		
49	147.151	1296 304 098	513782	Reverse Gear 39 T	1		B	●					
49	147.136	1296 304 097		Reverse Gear 38 T	1		C	●					
49		1295 304 272	696929	Reverse Gear 39 T	1		A		●				
49	147.138	1295 304 201	691793	Reverse Gear 39 T	1		BD		●				
49	147.152	1295 304 115	692090	Reverse Gear 39 T	1	(7)	B		●				
49	147.093	1295 304 200	698136	Reverse Gear 38 T	1		C		●				
49	147.109	1297 304 149	67083	Reverse Gear 39 T	1		BD			●	●		
49	147.140	1297 304 148	689294	Reverse Gear 38 T	1		CE			●	●		
50	169.756	1296 304 117	689915	Thrust Washer	1			●					
50	169.409	1295 304 240	691794	Thrust Washer	1		ABC		●				
50		1295 304 125	692091	Thrust Washer	1	(7)	B		●				
50	169.757	1297 304 381	66370	Thrust Washer	1		BC			●	●		
51	157.211	1295 304 247	689920	Sun Gear 27 T	1			●					
51	157.112	1295 304 248	692094	Sun Gear 27 T	1		ABC		●				

## Notes

- (1) Only for input Shaft 1295 221 001 - 1296 221 001  
 (2) To be coupled together with Fig. 4 - 0730 061 816  
 (3) To be coupled together with Fig. 4 - 0730 062 579  
 (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30) - Standard Syncro Ring Ø 192 mm ( Z 63 or 54). Use items marked note (6) together  
 (7) Old Type having straight teeth. Use items marked (7) together.

## Date

03 / 2006

## Table

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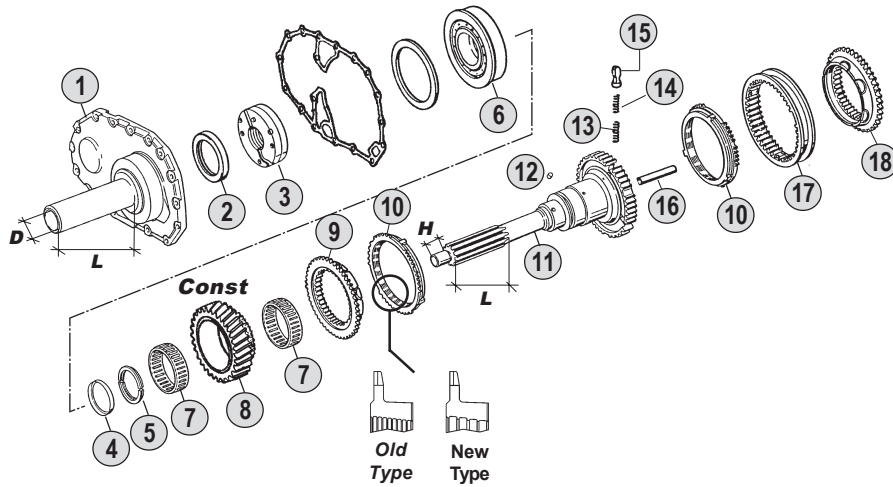


ECO I  
From 16S112  
To 16S190

Suitable To : **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

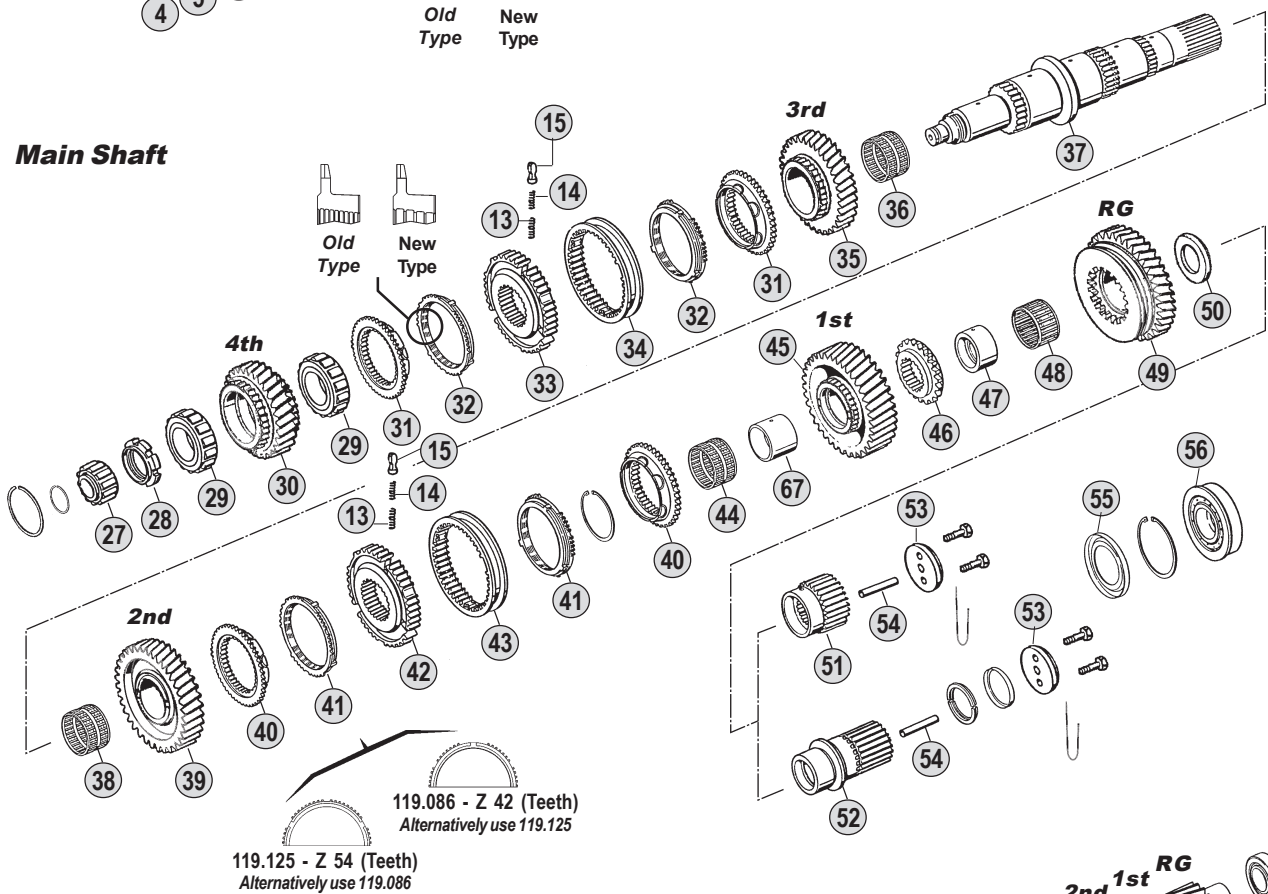
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

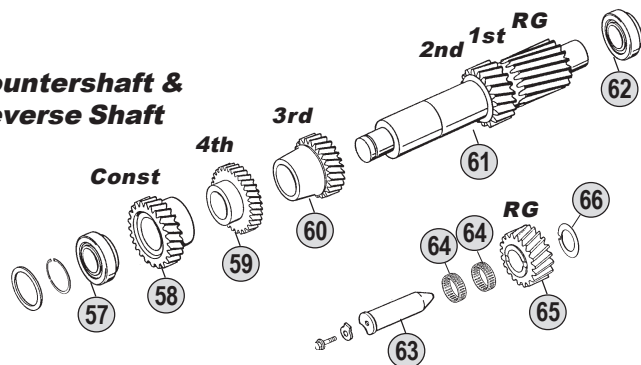
**Main Shaft**



**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: --	E:--
<b>16S130</b>	A:10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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16S112 (1296)  
16S130 (1295)  
16S160 (1297)  
16S190 (1297)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					DAF no.	16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)	
51	157.177	1297 304 187	66377	Sun Gear 27 T	1	BC			●	●		
52	157.207	1295 304 251	67060	Sun Gear 24 T	1	D		●				
52	157.198	1297 304 439	689295	Sun Gear 24 T	1	DE			●	●		
53	188.076	1272 304 021	609466	Stop Washer	1		●	●	●	●		
54		0730 061 842	692222	Oil Tube	1		●	●	●	●		
55		1295 304 129	692066	Oil Collector	1		●					
55		1295 304 129	692066	Oil Collector	1	ABC		●				
55		1297 301 004	691381	Oil Collector	1	D		●				
55		1297 301 004	691381	Oil Collector	1				●	●		
56	130.240	0750 118 153	69105	Bearing D.60x130x31	1		●					
56	130.240	0750 118 153	69105	Bearing D.60x130x31	1	ABC		●				
56		0750 118 137	67052	Bearing D.80x140x26	1	D		●				
56		0750 118 006	66357	Bearing D.65x140x33	1	BC			●	●		
56		0750 118 180	689289	Bearing D.80x140x33	1	DE			●	●		
57	130.242	0750 117 010	692181	Bearing D.50,80x100x35	1		●	●	●	●		
58	146.449	1296 303 013		Constant Gear 31 T	1	B	●					
58	146.364	1296 303 014	689907	Constant Gear 34 T	1	C	●					
58	146.210	1295 303 101	1339401	Constant Gear 34 T	1	AC		●				
58	146.354	1295 303 036	692078	Constant Gear 31 T	1	B		●				
58	146.457	1295 303 060	67055	Constant Gear 32 T	1	D		●				
58	146.383	1297 303 074	67079	Constant Gear 31 T	1	B			●	●		
58	146.322	1297 303 066	66361	Constant Gear 34 T	1	C			●	●		
58	146.319	1297 303 098	1327922	Constant Gear 32 T	1	D			●	●		
58	146.321	1297 303 086	691387	Constant Gear 35 T	1	E			●	●		
59	146.450	1296 303 003		Gear 4th Speed 34 T	1	B	●					
59	146.363	1296 303 002	689908	Gear 4th Speed 31 T	1	C	●					
59	146.209	1295 303 027	696925	Gear 4th Speed 31 T	1	AC		●				
59	146.413	1295 303 028	692079	Gear 4th Speed 34 T	1	B		●				
59	146.461	1295 303 094	67056	Gear 4th Speed 35 T	1	D		●				
59	146.382	1297 303 072	67080	Gear 4th Speed 34 T	1	B			●	●		
59	146.381	1297 303 065	66362	Gear 4th Speed 31 T	1	C			●	●		
59	146.415	1297 303 097	1336470	Gear 4th Speed 35 T	1	D			●	●		
59	146.416	1297 303 123	691385	Gear 4th Speed 32 T	1	E			●	●		
60	146.451	1296 303 008		Gear 3rd Speed 28 T	1	B	●					
60	146.419	1296 303 009	689906	Gear 3rd Speed 25 T	1	C	●					
60		1295 303 071	696923	Gear 3rd Speed 36 T	1	A		●				
60	146.355	1295 303 025	692077	Gear 3rd Speed 28 T	1	BD		●				
60	146.211	1295 303 026	698138	Gear 3rd Speed 25 T	1	C		●				
60	146.357	1297 303 073	67078	Gear 3rd Speed 28 T	1	BD			●	●		
60	146.421	1297 303 067	66360	Gear 3rd Speed 25 T	1	C			●	●		
60	146.422	1297 303 132	691386	Gear 3rd Speed 26 T	1	E			●	●		
61	105.117	1296 303 026	513779	Countershaft 19-23 T	1	B	●					
61	105.104	1296 303 025	689904	Countershaft 17-20 T	1	C	●					
61		1295 303 072	696622	Countershaft	1	A		●				
61	105.119	1295 303 067	697068	Countershaft 19-23 T	1	BD		●				

## Notes

- (1) Only for input Shaft 1295 221 001 - 1296 221 001
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30) - Standard Syncro Ring Ø 192 mm (Z 63 or 54). Use items marked note (6) together
- (7) Old Type having straight teeth. Use items marked (7) together.

## Date

03 / 2006

## Table

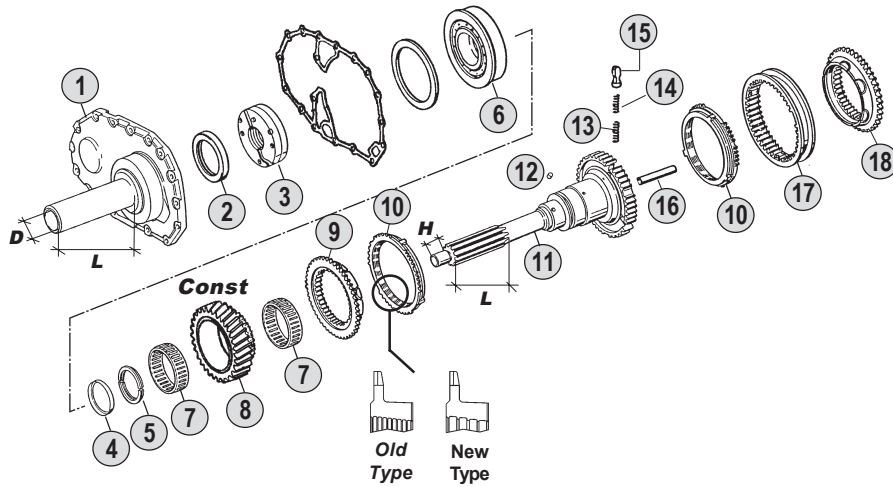
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ECO I  
From 16S112  
To 16S190

Suitable To : **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

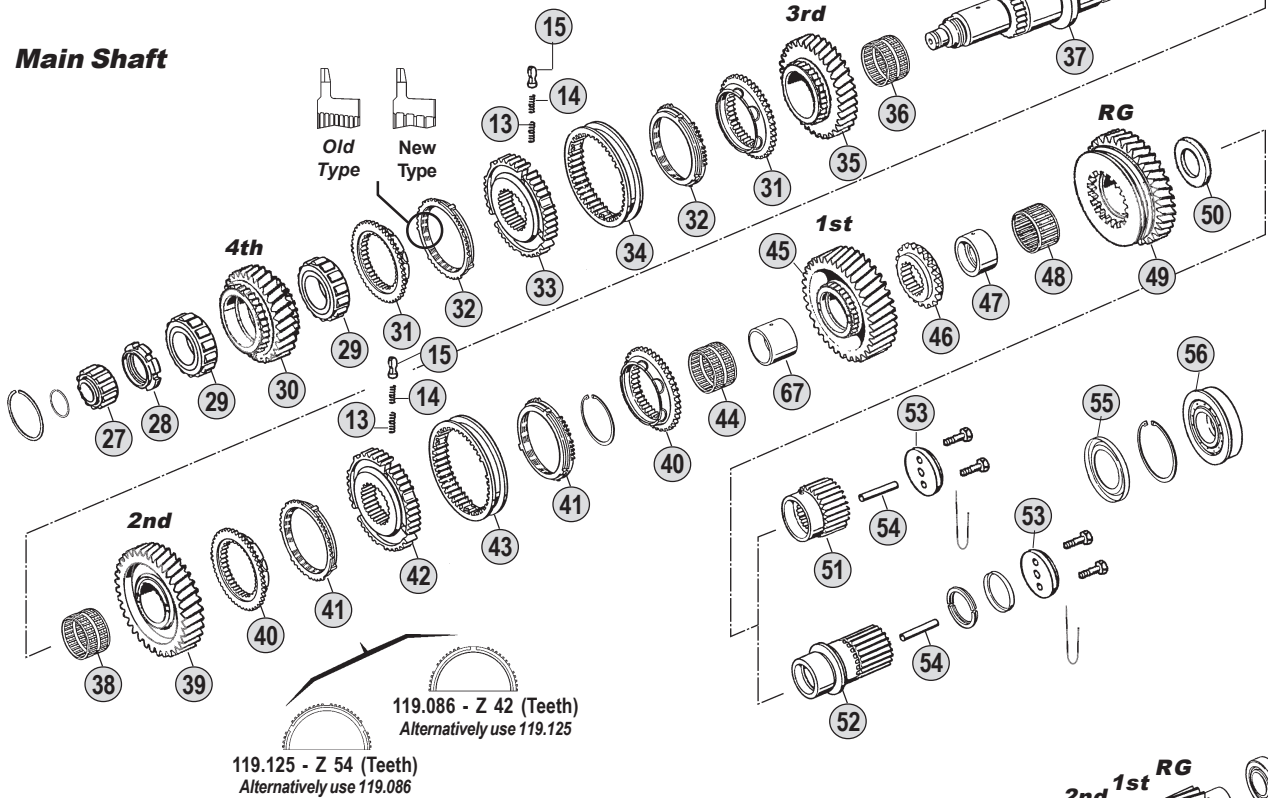
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

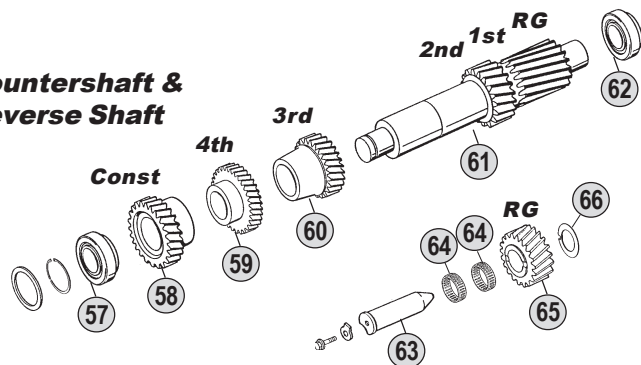
**Main Shaft**



**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: --	E:--
<b>16S130</b>	A:10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	DAF no.					16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)	
61	105.105	1295 303 045	692076	Countershaft 19-23 T	1	(7)	B	●				
61	105.060	1295 303 066	698137	Countershaft 17-20 T	1		C	●				
61	105.092	1297 303 075	67077	Countershaft 19-23 T	1		BD		●	●		
61	105.093	1297 303 140	689298	Countershaft 17-20 T	1		CE			●	●	
62	130.307	0750 117 011	689905	Bearing D.50,8x104,7x39,6	1			●				
62	130.243	0750 117 008	692180	Bearing D.50x110x42	1				●			
62	130.308	0750 117 009	691357	Bearing D.49,2x103,1x43,6	1					●	●	
63	107.108	1295 305 056	692068	Reverse Gear Pin	1			●	●	●	●	
64	137.007	0750 115 011	584385	Needle Cage D.45x53x21	2			●	●	●	●	
65	147.133	1295 305 051	691719	Reverse Gear 21 T	1		B	●				
65	147.094	1295 305 052	689290	Reverse Gear 24 T	1		C	●				
65	147.153	1297 305 003	692067	Reverse Gear 21 T	1		A		●			
65	147.133	1295 305 051	691719	Reverse Gear 21 T	1		BD		●			
65	147.153	1297 305 003	692067	Reverse Gear 21 T	1	(7)	B		●			
65	147.094	1295 305 052	689290	Reverse Gear 24 T	1		C		●			
65	147.133	1295 305 051	691719	Reverse Gear 21 T	1		BD			●	●	
65	147.094	1295 305 052	689290	Reverse Gear 24 T	1		CE			●	●	
66	169.234	0730 150 064	584383	Thrust Washer	1			●	●	●	●	
67	117.246	1297 304 035	691392	Bush	1					●	●	
68	198.339	1268 298 938		Spring Slide Set	1			●	●	●	●	
69	198.564	CEI 198564		Spring Slide Set	1			●	●	●	●	
70	198.842	1295 298 933		Spring Slide Set	1			●	●	●	●	
71	198.428	1295 298 960	1360726	Oil Seal Ring Kit	1			●	●	●	●	
72	198.427	1295 298 915	1303044	Gasket Kit	1			●	●	●	●	

## Notes

- (1) Only for input Shaft 1295 221 001 - 1296 221 001
- (2) To be coupled together with Fig. 4 - 0730 061 816
- (3) To be coupled together with Fig. 4 - 0730 062 579
- (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30) - Standard Syncro Ring Ø 192 mm (Z 63 or 54). Use items marked note (6) together
- (7) Old Type having straight teeth. Use items marked (7) together.

## Date

03 / 2006

## Table

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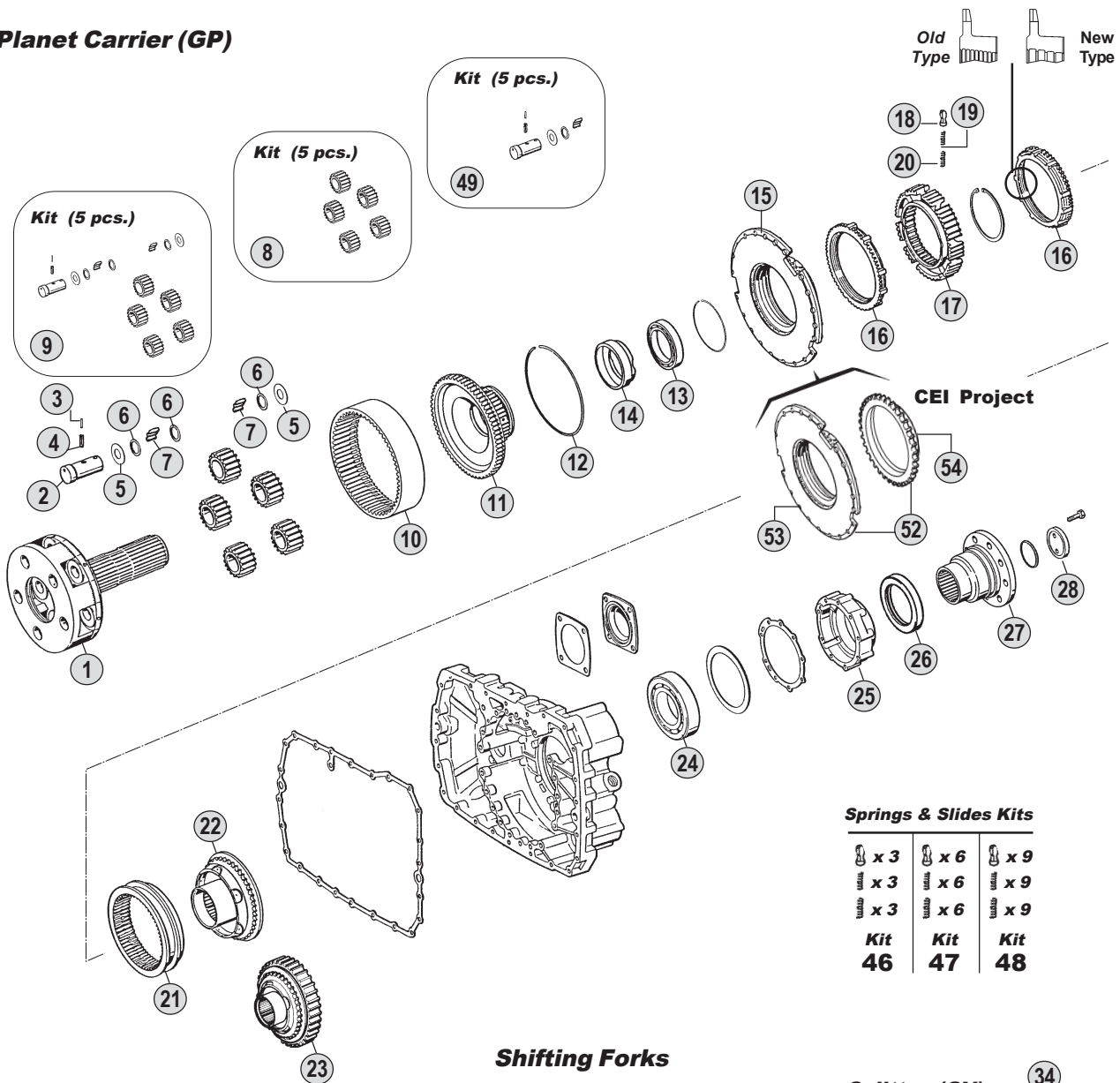
ECO I

From 16S112  
To 16S190

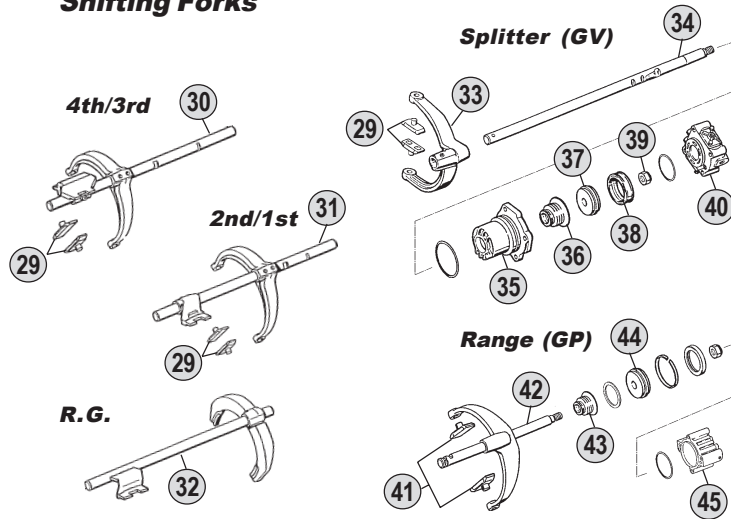
Suitable To : **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

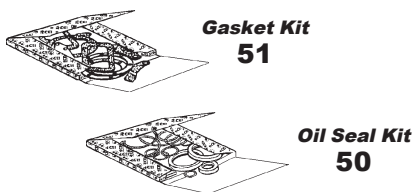
**Planet Carrier (GP)**



**Shifting Forks**



**Kits**



**Ratios**

<b>16S112</b>	A :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : --	E :--
<b>16S130</b>	A :10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E :--
<b>16S160</b>	A :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E :17,06-1,00
<b>16S190</b>	A :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E :17,06-1,00



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	DAF no.					16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)		
1	190.169	1295 232 044	696095	Planetary Carrier	1			●					
1	190.169	1295 232 044	696095	Planetary Carrier	1		ABC		●				
1	190.395	1297 232 045	67062	Planetary Carrier	1		D		●				
1	190.396	1297 232 039	66391	Planetary Carrier	1		BC			●	●		
1	190.395	1297 232 045	67062	Planetary Carrier	1		DE			●	●		
1		1316 232 005		Planetary Carrier	1	(8)	E				●		
2	<b>107.089</b>	1269 332 036	692256	Planet Shaft	5			●					
2	<b>107.089</b>	1269 332 036	692256	Planet Shaft	5		ABC		●				
2	107.163	1297 332 109	691407	Planet Shaft	5		D		●				
2	107.163	1297 332 109	691407	Planet Shaft	5					●	●		
2	107.165	1312 332 026	1227034	Planet Shaft	5	(8)					●		
3	160.191	0631 329 017		Lock Pin D.3x24	5			●	●	●	●		
3	160.195	0631 329 167	1344438	Lock Pin D.3x26	5	(8)					●		
4	160.192	0631 329 050		Lock Pin D.5x24	5			●	●	●	●		
4	160.194	0631 329 051	1344439	Lock Pin D.5x26	5	(8)					●		
5	169.408	0501 305 887	692255	Thrust Washer D.29x57,50x1,50	10			●					
5	169.408	0501 305 887	692255	Thrust Washer D.29x57,50x1,50	10		ABC		●				
5	169.753	0501 306 212	691327	Thrust Washer D.29x64x1,5	10		D		●				
5	169.753	0501 306 212	691327	Thrust Washer D.29x64x1,5	10					●	●		
5	169.759	0501 308 981	69078	Thrust Washer	10	(8)					●		
6	<b>169.410</b>	0730 103 846	692246	Spacer Ring D.29x39x1,00	15			●	●	●	●		
6	169.744	0730 107 168	69077	Spacer Ring	15	(8)					●		
7	<b>171.016</b>	0735 470 057	692254	Roller Set D.6x14,75 (180 pcs)	180			●					
7	<b>171.016</b>	0735 470 057	692254	Roller Set D.6x14,75 (180 pcs)	180		ABC		●				
7	171.045	0750 119 109	691356	Roller Set D.10x16,80 (120 pcs)	120		D		●				
7	171.045	0750 119 109	691356	Roller Set D.10x16,80 (120 pcs)	120					●	●		
7	171.062	0750 119 116	1284246	Roller D.10x16,8	140	(8)					●		
8	<b>198.357</b>	1295 232 027	692138	Planetary Gear Set (5 pcs)	1			●					
8	<b>198.357</b>	1295 232 027	692138	Planetary Gear Set (5 pcs)	1		ABC		●				
8	198.810	1297 232 024	691380	Planetary Gear Set (5 pcs)	1		D		●				
8	198.803	1297 232 023	66390	Planetary Gear Set (5 pcs)	1		BC			●	●		
8	198.810	1297 232 024	691380	Planetary Gear Set (5 pcs)	1		DE			●	●		
8	198.801	1312 232 014	1227032	Planetary Gear Set (5 pcs)	1	(8)	E				●		
9	198.562	1296 298 904		Planetary Gear Set	1			●					
9	198.562	1296 298 904		Planetary Gear Set	1		ABC		●				
9	<b>198.704</b>	1297 298 912		Planetary Gear Set	1		BC			●	●		
9		1297 298 919		Planetary Gear Set	1		DE			●	●		
10	123.162	1295 332 053	696457	Crown Gear 83 T	1			●					
10	123.162	1295 332 053	696457	Crown Gear 83 T	1		ABC		●				
10	123.208	1295 332 086	69091	Crown Gear 86 T	1		D		●				
10	123.217	1297 332 080	66393	Crown Gear 83 T	1		BC			●	●		
10	123.208	1295 332 086	69091	Crown Gear 86 T	1		DE			●	●		
11	150.112	1295 332 021	692139	Flange Gear 83 T	1			●					
11	150.112	1295 332 021	692139	Flange Gear 83 T	1		ABC		●				
11	150.137	1297 332 035	691409	Flange Gear 86 T	1		D		●				

## Notes

(8) New Reinforced Style. Use items marked (8) together

## Date

03 / 2006

## Table

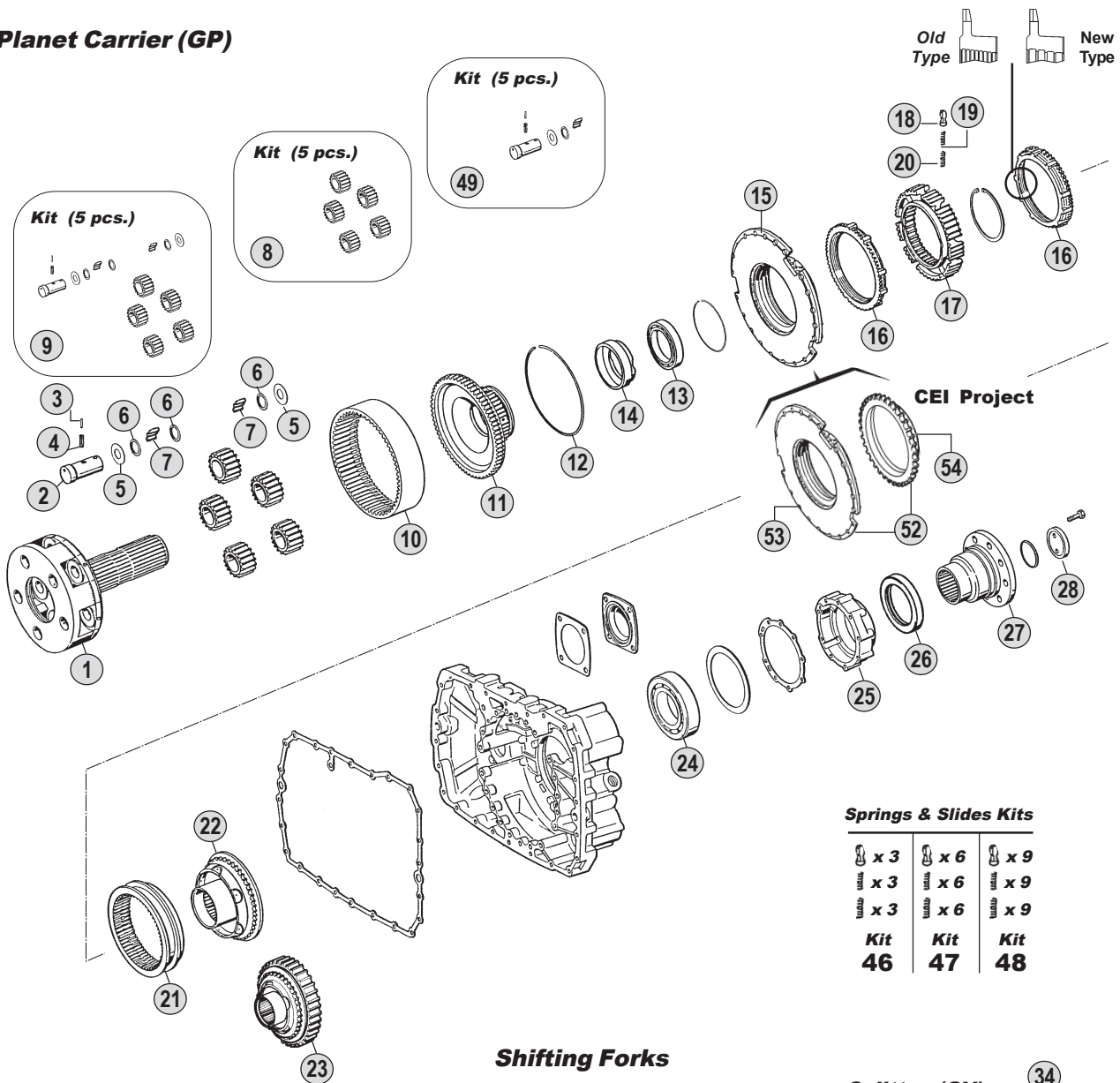
019 / B

**ECO I**  
From 16S112  
To 16S190

Suitable To : **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

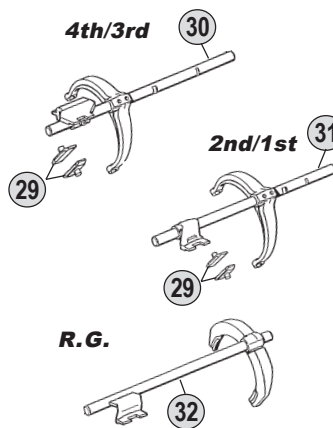
**Planet Carrier (GP)**



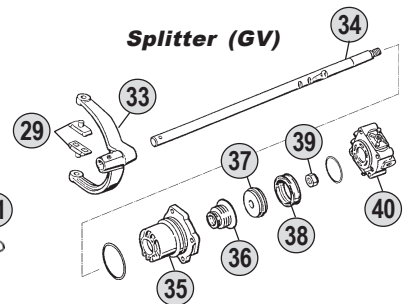
**Kits**



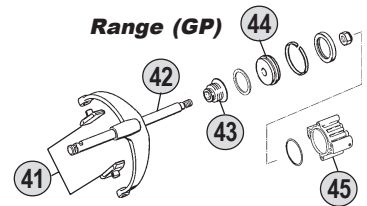
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: --	E:--
<b>16S130</b>	A:10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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16S112 (1296)  
16S130 (1295)  
16S160 (1297)  
16S190 (1297)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.					DAF no.	16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)		
11	150.138	1297 332 017	66392	Flange Gear 83 T	1		BC			●	●		
11	150.137	1297 332 035	691409	Flange Gear 86 T	1		DE			●	●		
11	150.134	1297 332 120	1227567	Flange Gear 86 T	1	(8)	E				●		
12	111.129	0730 505 055	692259	Locking Wire	1			●					
12	111.129	0730 505 055	692259	Locking Wire	1		ABC		●				
12	111.198	0730 505 056	691340	Locking Wire	1		D		●				
12	111.129	0730 505 055	692259	Locking Wire	1		BC			●	●		
12	111.198	0730 505 056	691340	Locking Wire	1		DE			●	●		
13	130.244	0750 116 166	692253	Bearing D.75x105x16	1			●					
13	130.244	0750 116 166	692253	Bearing D.75x105x16	1		ABC		●				
13	130.310	0750 116 165	69395	Bearing D.80x110x16	1		D		●				
13	130.310	0750 116 165	69395	Bearing D.80x110x16	1					●	●		
13	130.311	0635 338 035	1227592	Bearing D.100x125x13	1	(8)					●		
14		1297 332 002	1300625	Ring	1		D		●				
14		1297 332 002	1300625	Ring	1					●	●		
15	198.358	1296 233 006	689812	Synchronizer Cone	1			●	●	●	●		
16	119.085	1296 333 022	1303708	Synchronizer Ring	2	Old Type		●	●	●	●		
16	119.172	1296 333 045	1354113	Synchronizer Ring	2	New Type		●	●	●	●		
17	157.113	1296 333 002	692167	Synchronizer Hub	1			●	●	●	●		
17	157.183	1297 333 115	1227600	Synchronizer Hub	1	(8)					●		
18	160.116	1240 304 278	326962	Pressure Piece	9			●	●	●	●		
19	156.036	0732 040 386	326964	Inner Spring De.3x34	9			●	●	●	●		
20	156.037	0732 040 385	326963	Outer Spring De.6x34	9			●	●	●	●		
21	154.098	1296 333 023	689814	Sliding Sleeve	1			●	●	●	●		
22	198.359	1295 233 025	696096	Synchronizer Cone (36 Spl.)	1			●					
22	198.359	1295 233 025	696096	Synchronizer Cone (36 Spl.)	1		ABC		●				
22	198.374	1313 233 001	691378	Synchronizer Cone (38 Spl.)	1		D		●				
22	198.374	1313 233 001	691378	Synchronizer Cone (38 Spl.)	1					●	●		
22	198.790	1297 233 056	1228000	Synchronizer Cone (41 spl.)	1	(8)					●		
23		1297 333 117		Synchronizer Cone	1	With Retarder	ABC		●				
23		1297 333 118	1235589	Synchronizer Cone	1	With Retarder	D		●				
23		1297 333 118	1235589	Synchronizer Cone	1	With Retarder				●	●		
24	130.245	0750 116 002	692184	Bearing D.90x160x30	1			●	●	●	●		
25		1296 301 067	513935	Cover	1			●	●	●	●		
25	128.098	1315 301 220	691805	Cover	1			●	●	●	●		
25		1296 301 067	513935	Cover	1						●		
25	128.098	1315 301 220	691805	Cover	1	(8)					●		
26		0750 111 341	1304242	Oil Seal 105x130x12	1			●	●	●	●		
27		1295 238 003		Output Flange	1	D.165-8.H.		●					
27		1295 338 061	698639	Output Flange	1	D.180-4.H.		●					
27	197.051	1295 338 014	692165	Output Flange	1	D.180-10.H.		●					
27		1295 338 059		Output Flange	1	D.180-10.H.		●					
27		1295 238 003		Output Flange	1	D.165-8.H.	ABC		●				
27		1295 338 061	698639	Output Flange	1	D.180-4.H.	ABC		●				
27	197.051	1295 338 014	692165	Output Flange	1	D.180-10.H.	ABC		●				

## Notes

(8) New Reinforced Style. Use items marked (8) together

## Date

03 / 2006

## Table

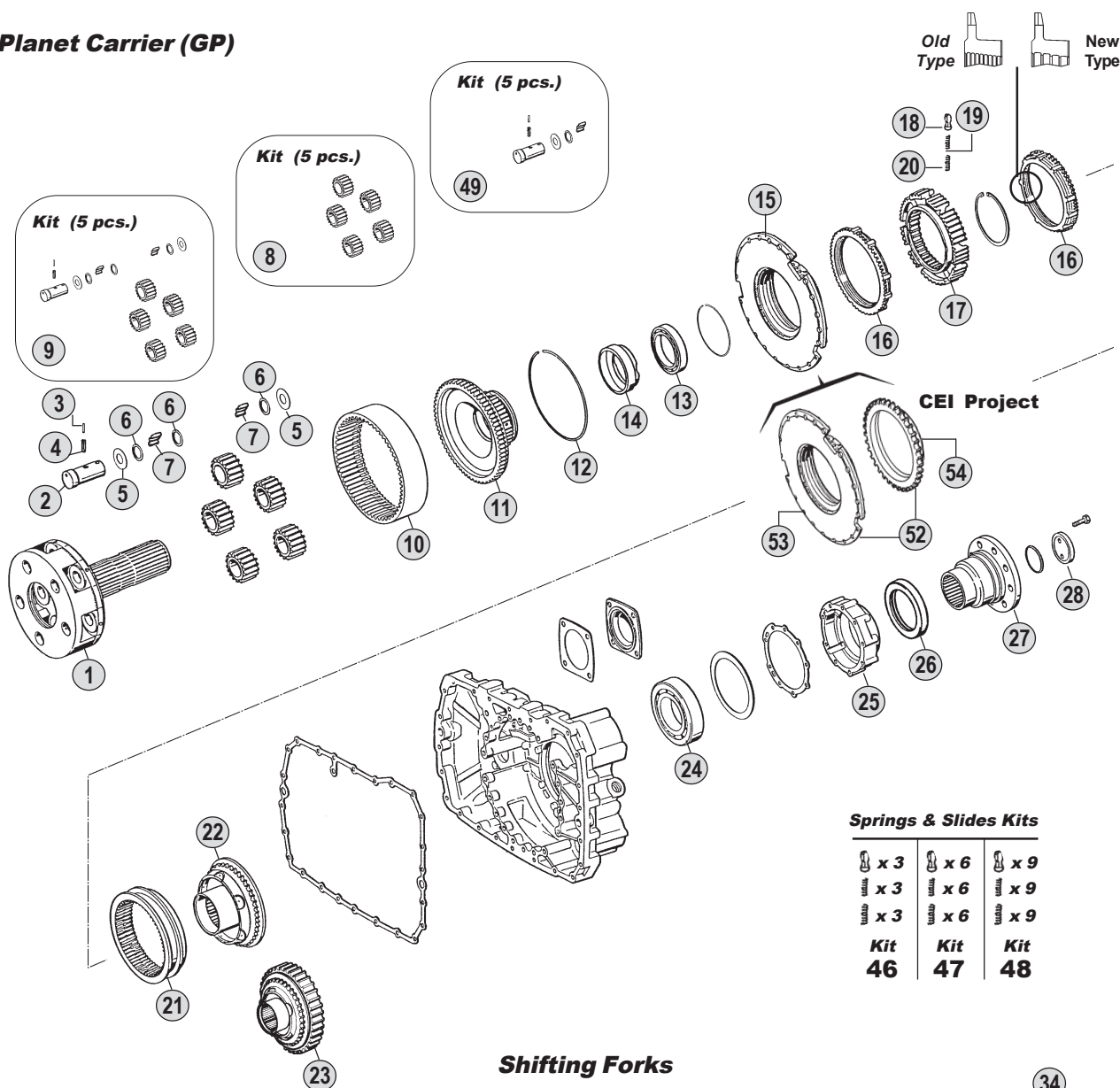
019 / B

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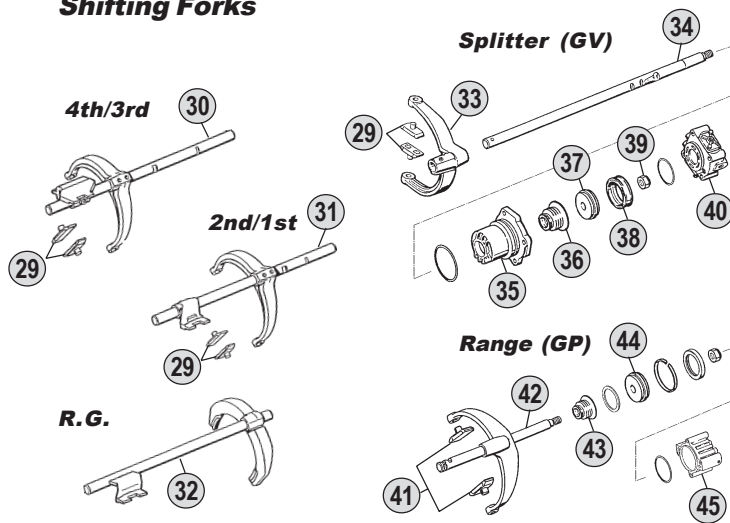
Suitable To : **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

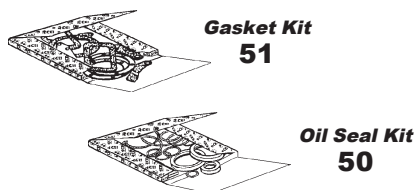
**Planet Carrier (GP)**



**Shifting Forks**



**Kits**



**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: --	E:--
<b>16S130</b>	A:10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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16S112 (1296)  
16S130 (1295)  
16S160 (1297)  
16S190 (1297)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.					DAF no.	16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)		
27		1295 338 059		Output Flange	1	D.180-10H.	ABC		●				
27	197.074	1295 338 016		Output flange	1	D.204-4H.	ABC		●				
27		1295 338 028		Output Flange	1	D.204-4H.	ABC		●				
27		1297 338 041	689335	Output Flange	1	D.180-4H.	D		●				
27		1297 338 010	691412	Output Flange	1	D.180-10H.	D		●				
27		1297 338 041	689335	Output Flange	1	D.180-4H.				●	●		
27		1297 338 038	1284534	Output Flange	1	D.180-10H.				●	●		
27		1297 338 010	691412	Output Flange	1	D.180-10H.				●	●		
27		1297 333 110	1227595	Output Flange	1	D.180-4H. (8)					●		
28	188.077	1295 332 051	696097	Stop Washer	1			●	●	●	●		
28		1295 332 064		Stop Washer	1	Only with 1295 238 003		●	●				
28		1312 332 028	1227597	Stop Washer	1	(8)					●		
29	141.068	1295 306 132	696445	Bronze Slide	2			●	●	●	●		
30		1296 206 064		Fork	1			●					
30		1296 206 061	689923	Fork	1			●					
30		1295 206 219	696933	Fork	1				●				
30		1295 206 212	513912	Fork	1				●				
30	198.362	1295 206 213	691934	Fork	1				●				
30		1297 206 103	66380	Fork	1					●	●		
30		1297 206 104	691937	Fork	1					●			
30		1297 206 192		Fork	1						●		
31		1296 206 063		Fork	1			●					
31		1296 206 062	697691	Fork	1			●					
31		1295 206 223	696932	Fork	1				●				
31		1295 206 217	1228199	Fork	1				●				
31		1295 206 214	698309	Fork	1				●				
31		1295 206 215	513911	Fork	1				●				
31		1297 206 106		Fork	1					●	●		
31		1297 206 105	696346	Fork	1					●	●		
31		1297 206 191		Fork	1						●		
32		1296 206 077		Fork	1			●					
32		1296 206 078	689924	Fork	1			●					
32		1295 206 250		Fork	1				●				
32		1295 206 249	1228200	Fork	1				●				
32	198.360	1295 206 255	1212144	Fork	1				●				
32		1295 206 254	68985	Fork	1				●				
32		1297 206 174	69703	Fork	1					●	●		
32		1297 206 175	1242703	Fork	1					●	●		
32		1297 206 181		Fork	1						●		
33		1313 312 002	689936	Fork	1			●	●	●	●		
34		1296 312 001	689935	Selector Rod	1			●					
34	149.172	1295 312 018	692131	Selector rod	1				●				
34		1297 312 008	691405	Selector Rod	1					●	●		
35	132.046	1296 312 042	692130	Cylinder	1			●	●	●	●		
36	139.331	0750 112 034	692237	Cap Collar D.25x38x14,2	1			●	●	●	●		

## Notes

(8) New Reinforced Style. Use items marked (8) together

## Date

03 / 2006

## Table

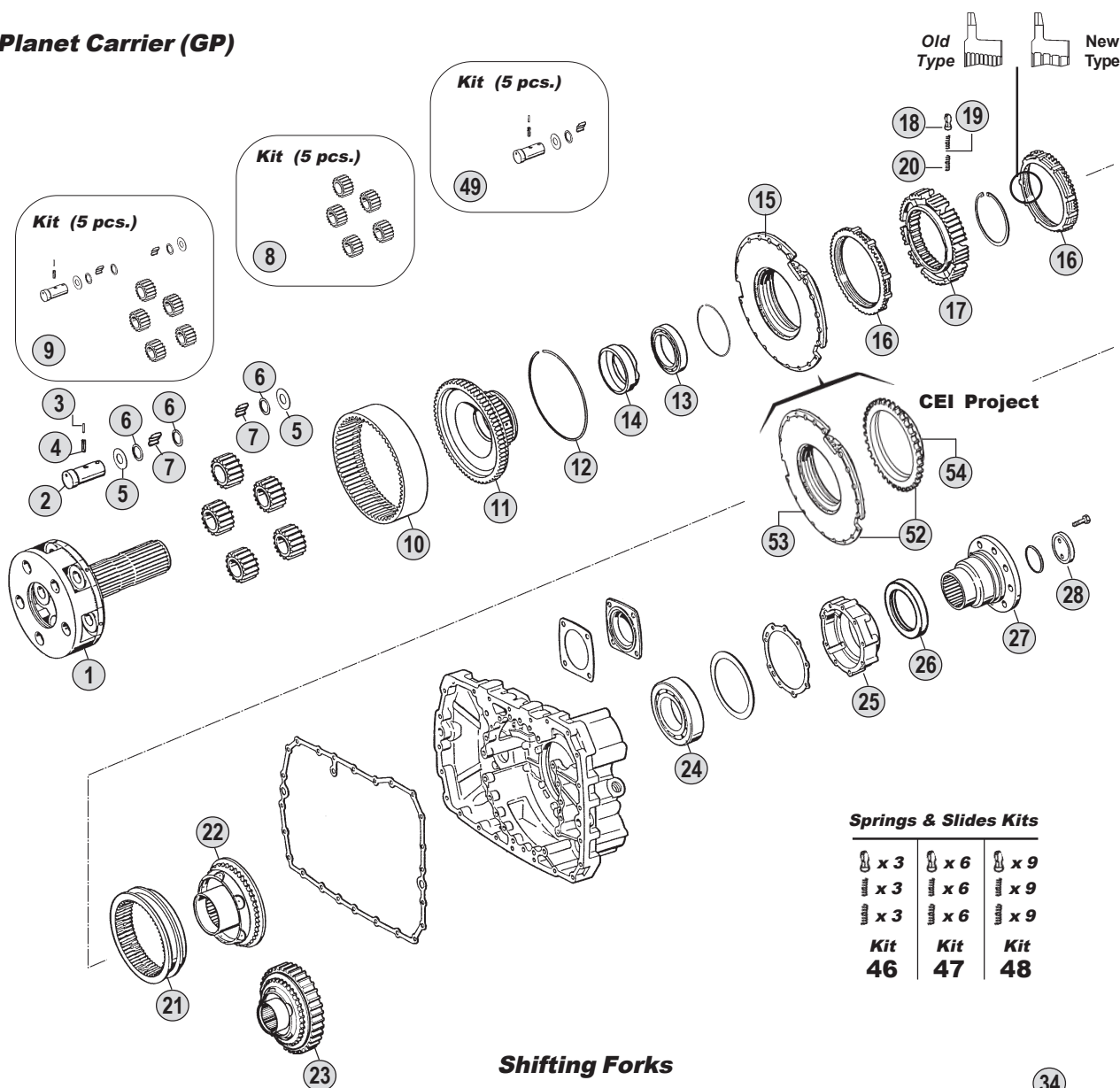
019 / B

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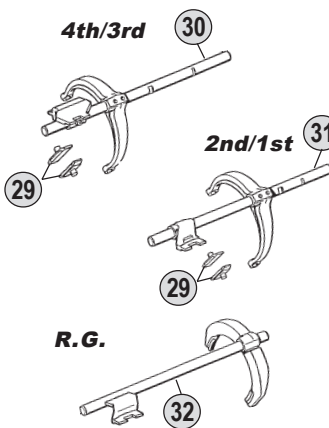
Suitable To : **ZF**

**16S112 - 16S130 - 16S160 - 16S190**

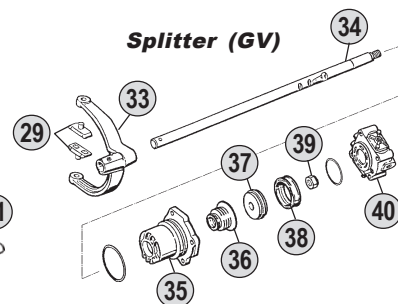
**Planet Carrier (GP)**



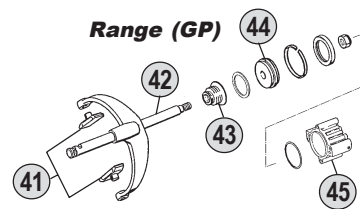
**Shifting Forks**



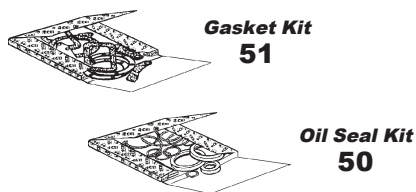
**Splitter (GV)**



**Range (GP)**



**Kits**



**Gasket Kit 51**

**Oil Seal Kit 50**

**Ratios**

<b>16S112</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: --	E:--
<b>16S130</b>	A:10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00
<b>16S190</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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16S112 (1296)  
16S130 (1295)  
16S160 (1297)  
16S190 (1297)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					DAF no.	16S112 (1296)	16S130 (1295)	16S160 (1297)	16S190 (1297)	
37	189.421	1296 312 053	69363	Piston	1		●	●	●	●		
38		0750 112 089	66388	Ring 53x63x16,2	1		●	●	●	●		
39		0737 006 095	1291087	Nut	1		●	●	●	●		
40		0750 132 032	67061	Cylinder	1		●	●	●	●		
40		0750 132 033	692239	Cylinder	1		●	●	●	●		
40	280.350	1295 212 008		Cylinder	1		●	●	●	●		
40		1295 212 009	1527454	Cylinder	1				●			
41	141.085	1296 334 004	692175	Bronze Slide	2		●	●	●	●		
42		1313 234 011	1253527	Fork	1		●					
42	149.171	1312 234 002	1246847	Fork Lever	1			●	●	●		
43	139.331	0750 112 034	692237	Cap Collar D.25x38x14,2	1		●	●	●	●		
44	189.422	1296 334 039	699798	Piston	1		●	●	●	●		
44		1297 334 056	1235359	Piston	1	(8)					●	
45	132.047	1295 334 075	68348	Cylinder	1		●	●	●	●		
45		1297 334 055	1242735	Cylinder	1	(8)					●	
46	198.339	1268 298 938		Spring Slide Set	1		●	●	●	●		
47	198.564	CEI 198564		Spring Slide Set	1		●	●	●	●		
48	198.842	1295 298 933		Spring Slide Set	1		●	●	●	●		
49	198.447	CEI 198447		Gear Set	1				●			
50	198.428	1295 298 960	1360726	Oil Seal Ring Kit	1		●	●	●	●		
51	198.427	1295 298 915	1303044	Gasket Kit	1		●	●	●	●		
52	198.856	CEI 198856		Synchronizer cone kit	1	Can repl. fig. 15	●	●	●	●		
53	135.128	CEI 135128		Saddle Plate	1	Use with fig. 54	●	●	●	●		
54	109.174	1296 333 050	1377131	Synchronizer Cone	1	Use with fig. 53	●	●	●	●		

## Notes

(8) New Reinforced Style. Use items marked (8) together

## Date

03 / 2006

## Table

019 / B

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suitable to :

**Z.F.****EcoSplit I****From 16S112/1 to 16S190/1****Application**

	16S112/1 (1296)	16S130/1 (1295)	16S160/1 (1297)	16S190/1 (1297)
<b>MERCEDES</b>				
<b>MAN</b>				
<b>IVECO</b>				
<b>RVI</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**Ratios**

	R.10,14-0,72 <b>A</b>	R.11,46-0,85 <b>B</b>	R.13,68-1,00 <b>C</b>	R.14,29-0,82 <b>D</b>	R.17,06-1,00 <b>E</b>
<b>16S112/1</b>					
<b>16S130/1</b>					
<b>16S160/1</b>					
<b>16S190/1</b>					

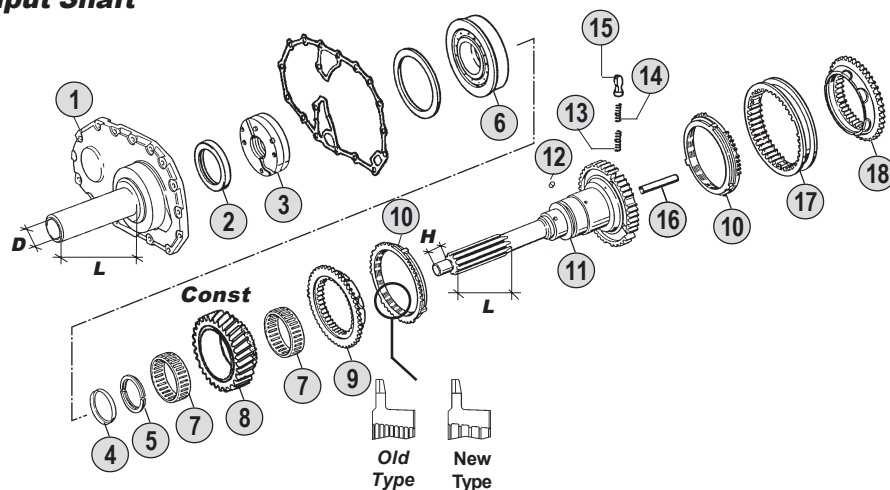
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**ECO I**  
From 16S112/1  
To 16S160/1

Suitable To : **ZF**

**16S112/1 - 16S130/1 - 16S160/1**

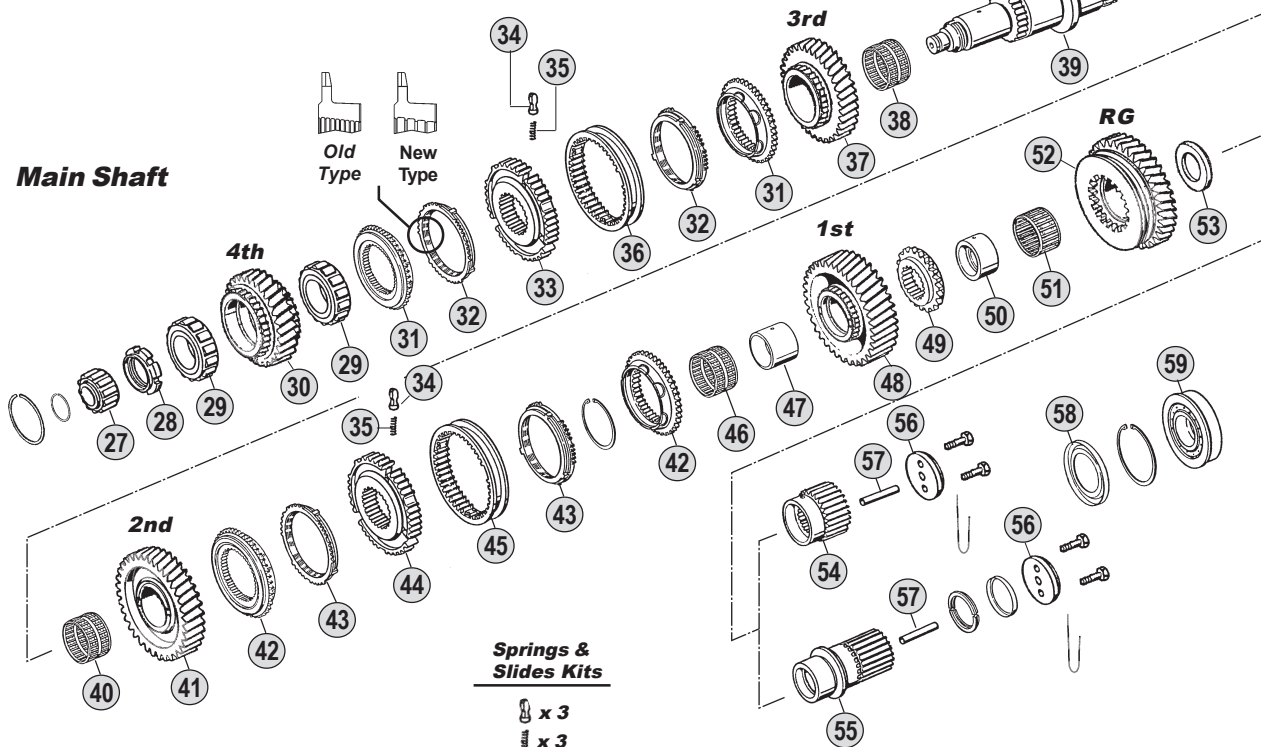
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 70</b>	<b>Kit 71</b>	<b>Kit 72</b>

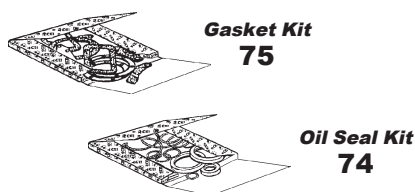
**Main Shaft**



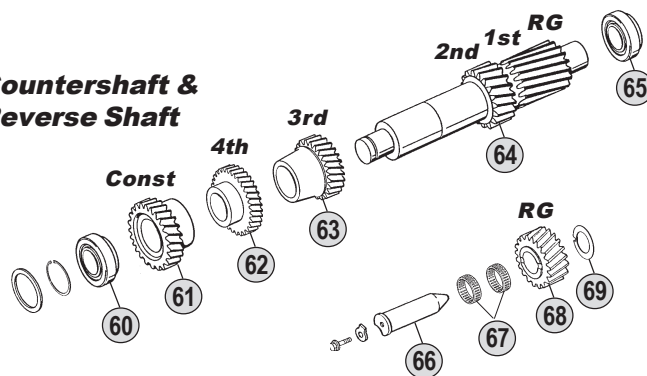
**Springs & Slides Kits**

x 3
x 3
<b>Kit 73</b>

**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S112/1</b> A :--	B :--	C : 13,68 - 1,00	D :--	E :--
<b>16S130/1</b> A : 10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E :--
<b>16S160/1</b> A :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00

16S112/1 (1296)  
16S130/1 (1296)  
16S160/1 (1297)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					DAF no.	16S112/1 (1296)	16S130/1 (1296)	16S160/1 (1297)		
1		1297 302 011	689901	Front Cover	1	L=147-D=57	●	●	●			
2		0750 111 002	609458	Oil Seal 48x75x8	1		●	●	●			
2		0734 310 386	1360734	Oil Seal 55x75x8	1	(1)		●				
2		0634 310 733	691662	Oil Seal 90x110x13	1	(2)		●	●			
3	<b>280.348</b>	1295 202 041	692203	Oil Pump	1		●	●	●			
4	169.754	0730 061 816	609456	Securing Ring	1		●	●	●			
4	169.755	0730 062 579	698621	Securing Ring	1	S.4,20 mm	●	●	●			
5		0730 103 244	609454	Split Ring T.4,30 mm	1	(3)	●	●	●			
5		0730 103 935	692202	Split Ring T.3,80 mm	1	(3)	●	●	●			
5		0730 105 156	698685	Split Ring T.4,00 mm	1	(4)	●	●	●			
5		0730 105 154		Split Ring T.3,80 mm	1	(4)	●	●	●			
6	130.305	0750 118 131	692179	Bearing D.80x150x27,50	1		●	●	●			
7	137.139	0735 320 799	696442	Needle Cage D.88x96x23	2		●					
7	137.082	0735 320 786	692204	Needle Cage D.88x96x24,50	2			●				
7	137.153	0735 320 896	698642	Needle Cage D.88x96x29	2				●			
8	<b>145.447</b>	1296 302 003	689902	Constant Gear 28 T	1		●					
8	<b>145.276</b>	1295 302 071	696921	Constant Gear 28 T	1			●				
8	145.489	1295 302 070	692072	Constant Gear 30 T	1			●				
8	145.541	1295 302 122	67054	Constant Gear 29 T	1			●				
8	<b>145.466</b>	1297 302 177	67076	Constant Gear 30 T	1				●			
8	<b>145.406</b>	1297 302 176	66359	Constant Gear 28 T	1				●			
8	<b>145.405</b>	1297 302 250	1327921	Constant Gear 29 T	1				●			
8	<b>145.407</b>	1297 302 241	1255960	Constant Gear 26 T	1				●			
9	<b>109.072</b>	1295 304 278	692073	Synchronizer Cone	1		●	●	●			
10	<b>119.084</b>	1295 304 004	692075	Synchronizer Ring	2	Old Type	●	●	●			
10	<b>119.175</b>	1304 304 686		Synchronizer Ring	2	New Type	●	●	●			
11	102.229	1296 202 006	689900	Input Shaft	1		●					
11	102.250	1295 202 005	67053	Input Shaft	1	L=95 D=32		●				
11		1295 202 052		Input Shaft	1			●				
11		1295 221 003		Input Shaft	1	With NMV130 (Clutch PTO)		●				
11	102.246	1297 202 052	66358	Input shaft	1				●			
11		1297 221 008		Input Shaft	1	With NMV130 (Clutch PTO)			●			
12		0635 470 012	110478	Pin	1		●	●	●			
13	<b>156.037</b>	0732 040 385	326963	Outer Spring De.6x34	3		●	●	●			
14	<b>156.036</b>	0732 040 386	326964	Inner Spring De.3x34	3		●	●	●			
15	<b>160.116</b>	1240 304 278	326962	Pressure piece	3		●	●	●			
16	188.208	0730 062 323		Oil Tube	1		●	●	●			
17	<b>154.097</b>	1295 304 002	692074	Sliding Sleeve	1		●	●	●			
18	<b>109.072</b>	1295 304 278	692073	Synchronizer Cone	1		●	●	●			
27	137.081	0750 118 010	692182	Roller Cage D.30x60x25,50	1		●	●				
27	137.113	0750 118 038	1336466	Roller Cage D.35x68x27,50	1				●			
28	187.412	0737 502 092	692208	Grooved Nut M60x1,5	1		●	●	●			
29	137.155	0750 118 012	689918	Roller Cage D.63x97,5x31,7	2		●					
29	137.083	0750 118 005	692209	Roller Cage D.63x97,5x34,80	2			●				
29	137.157	0750 118 220	691359	Roller Cage D.63x97,5x37,50	2				●			

## Notes

- (1) Only for input Shaft 1295 202 052  
 (2) Only for input Shaft 1295 221 003 - 1297 221 008  
 (3) To be coupled together with Fig. 4 - 0730 061 816  
 (4) To be coupled together with Fig. 4 - 0730 062 579

## Date

03 / 2006

## Table

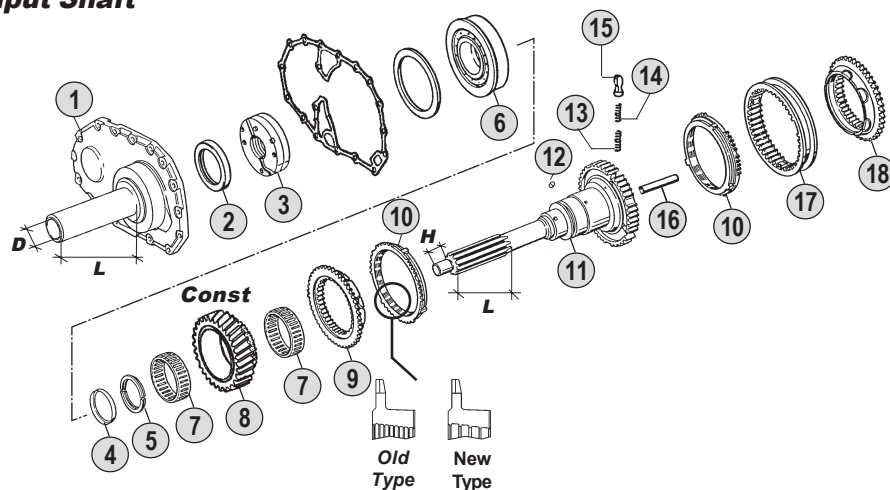
020 / A

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 Tutti i nostri particolari non sono originali ma con essi intercambiabili. I riferimenti originali, le figure, i modelli sono esposti a semplice titolo indicativo. La nostra produzione riporta il nostro marchio.

Suitable To : **ZF**

**16S112/1 - 16S130/1 - 16S160/1**

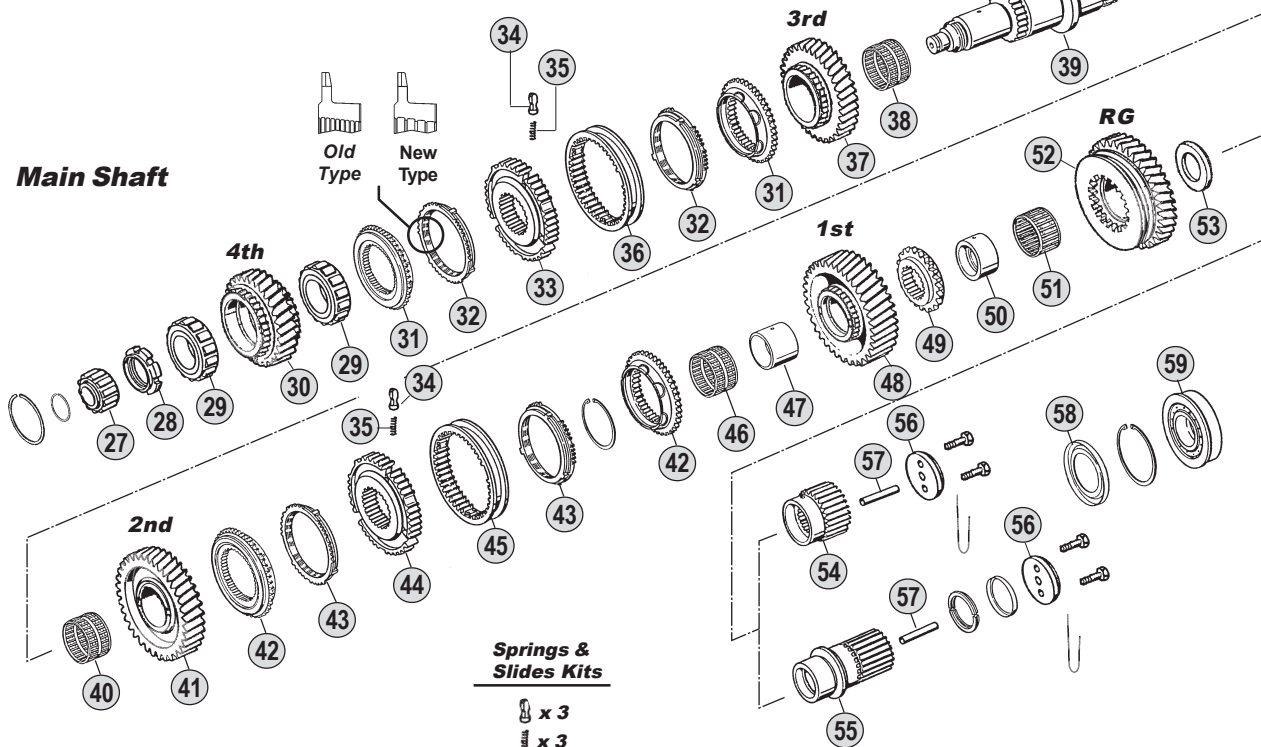
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 70</b>	<b>Kit 71</b>	<b>Kit 72</b>

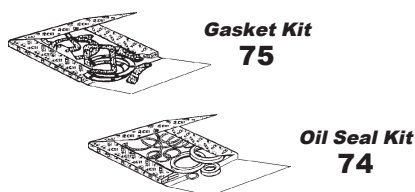
**Main Shaft**



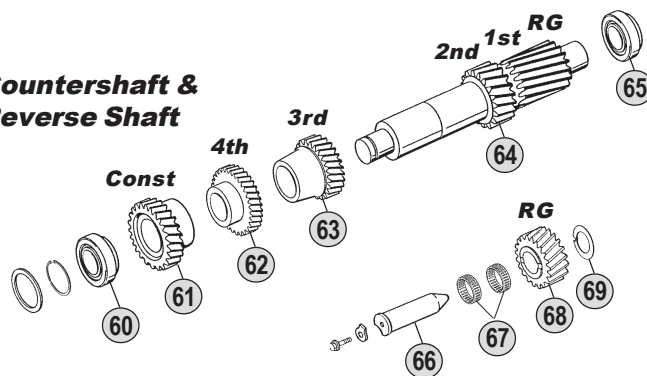
**Springs & Slides Kits**

x 3
x 3
<b>Kit 73</b>

**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S112/1</b> A :--	B :--	C : 13,68 - 1,00	D :--	E :--
<b>16S130/1</b> A : 10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E :--
<b>16S160/1</b> A :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00



16S112/1 (1296)  
16S130/1 (1296)  
16S160/1 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	DAF no.					16S112/1 (1296)	16S130/1 (1296)	16S160/1 (1297)		
30	146.362	1296 304 090	689919	Gear 4th Speed 30 T	1		C	●				
30	146.212	1295 304 135	696930	Gear 4th Speed 30 T	1		AC		●			
30	146.356	1295 304 136	692093	Gear 4th Speed 28 T	1		B		●			
30	146.454	1295 304 236	67059	Gear 4th Speed 26 T	1		D		●			
30	146.384	1297 304 267	67085	Gear 4th Speed 28 T	1		B			●		
30	146.318	1297 304 260	66376	Gear 4th Speed 30 T	1		C			●		
30	146.315	1297 304 318	1324219	Gear 4th Speed 26 T	1		D			●		
30	146.294	1297 304 413	1255966	Gear 4th Speed 29 T	1		E			●		
31	109.114	1297 304 369	66375	Synchronizer Cone	2			●	●	●		
32	119.119	1297 304 402	66373	Synchronizer Ring	2	Old Type		●	●	●		
32	119.167	1297 304 484	1342731	Synchronizer Ring	2	New Type		●	●	●		
33	157.140	1297 304 446	68983	Synchronizer Hub	1			●	●	●		
34	160.189	1297 304 436	68332	Pressure Piece	3			●	●	●		
35	156.140	0732 040 409	171349	Spring D.6,50x23,50	3			●	●	●		
36	154.135	1310 304 202	1377181	Sliding Sleeve	1			●	●	●		
37	145.494	1296 304 087	689916	Gear 3rd Speed 34 T	1		C	●				
37		1295 304 269	696931	Gear 3rd Speed 25 T	1		A		●			
37	145.495	1295 304 127	692092	Gear 3rd Speed 32 T	1		BD		●			
37	145.277	1295 304 128	698133	Gear 3rd Speed 34 T	1		C		●			
37	145.470	1297 304 266	67084	Gear 3rd Speed 32 T	1		BD			●		
37	145.450	1297 304 261	66371	Gear 3rd Speed 34 T	1		C			●		
37	145.377	1297 304 414	1255965	Gear 3rd Speed 34 T	1		E			●		
38	137.158	0735 320 460	689910	Needle Cage D.82x90x46	1			●				
38	137.084	0735 320 418	692205	Needle Cage D.82x90x49	1				●			
38	137.112	0735 320 451	691351	Needle Cage D.82x90x60	1					●		
39	103.131	1296 304 119	689909	Main Shaft	1			●				
39		1295 304 273	696926	Main Shaft	1		A		●			
39	103.075	1295 304 245	692080	Main Shaft	1		BC		●			
39	103.140	1295 304 250	67057	Main Shaft	1		D		●			
39	103.132	1297 304 181	66363	Main Shaft	1		BC			●		
39	103.098	1297 304 193	689291	Main Shaft	1		DE			●		
40		0735 320 549	689917	Needle Cage D.82x90x42	1			●				
40	137.112	0735 320 451	691351	Needle Cage D.82x90x60	1		A		●			
40	137.084	0735 320 418	692205	Needle Cage D.82x90x49	1		BCD		●			
40	137.109	0735 320 452	691352	Needle Cage D.82x90x55	1					●		
41	145.499	1296 304 070	689911	Gear 2nd Speed 38 T	1		C	●				
41		1295 304 271	696927	Gear 2nd Speed 34 T	1		A		●			
41	145.501	1295 304 120	692081	Gear 2nd Speed 37 T	1		BD		●			
41	145.278	1295 304 121	698314	Gear 2nd Speed 38 T	1		C		●			
41	145.500	1297 304 269	67081	Gear 2nd Speed 37 T	1		BD			●		
41	145.375	1297 304 442	691388	Gear 2nd Speed 38 T	1		CE			●		
42	109.113	1297 304 371	66367	Synchronizer Cone	2			●	●	●		
43	119.122	1297 304 401	66365	Synchronizer Ring	2	Old Type		●	●	●		
43	119.166	1297 304 485	1360740	Synchronizer Ring	2	New Type		●	●	●		
44	157.139	1297 304 445	68982	Synchronizer Hub	1			●	●	●		

## Notes

- (1) Only for input Shaft 1295 202 052
- (2) Only for input Shaft 1295 221 003 - 1297 221 008
- (3) To be coupled together with Fig. 4 - 0730 061 816
- (4) To be coupled together with Fig. 4 - 0730 062 579

## Date

03 / 2006

## Table

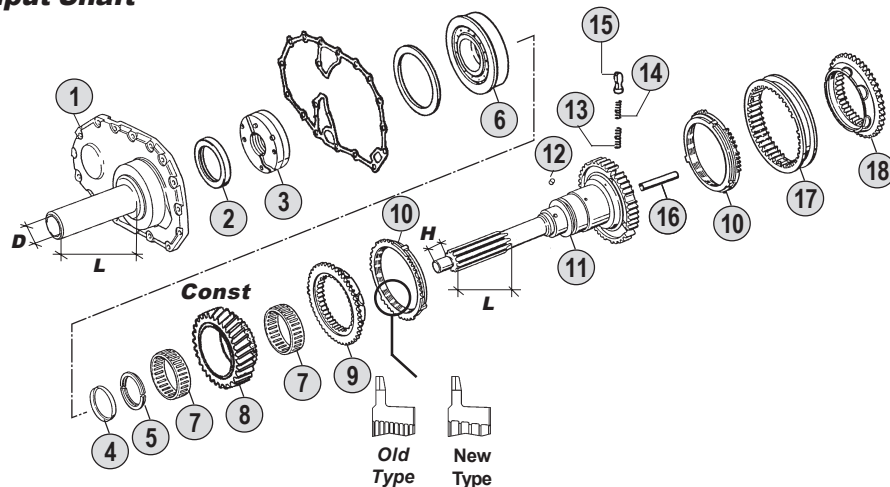
020 / A

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Suitable To : **ZF**

**16S112/1 - 16S130/1 - 16S160/1**

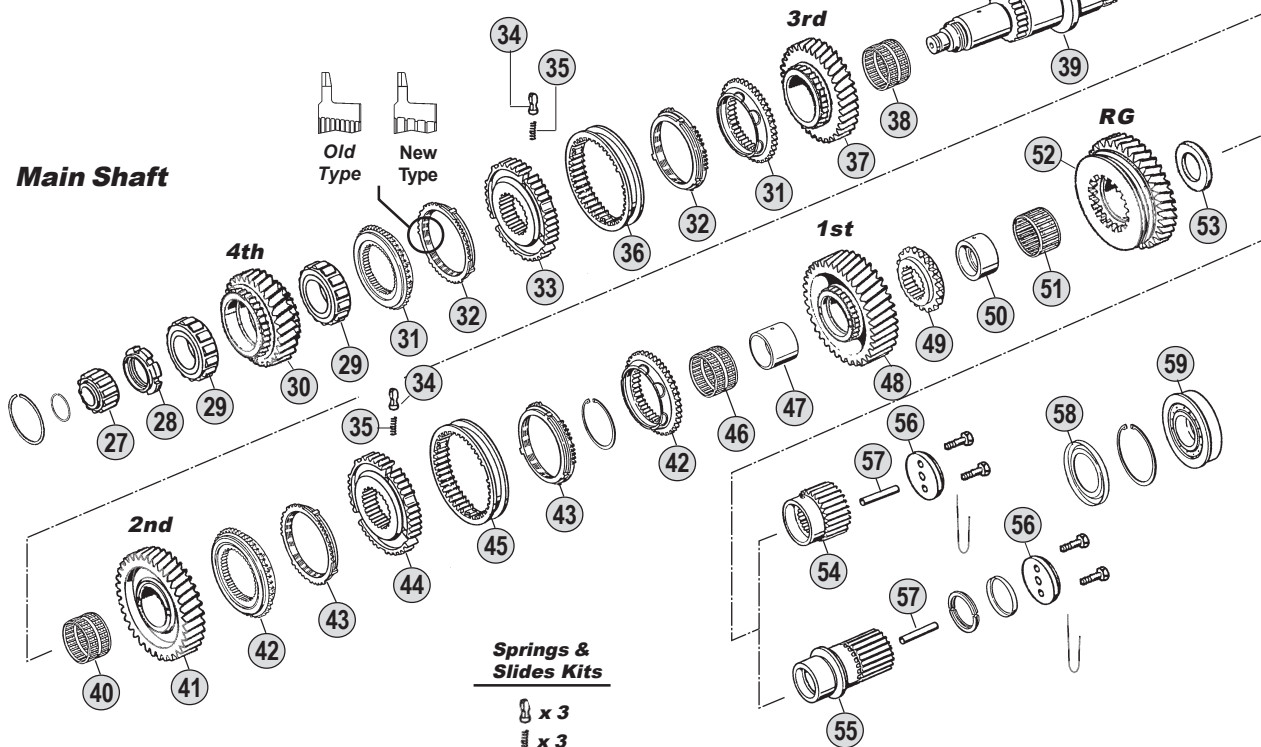
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 70</b>	<b>Kit 71</b>	<b>Kit 72</b>

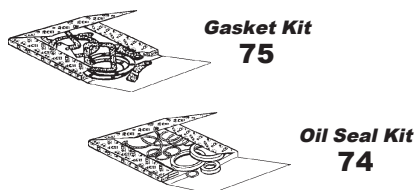
**Main Shaft**



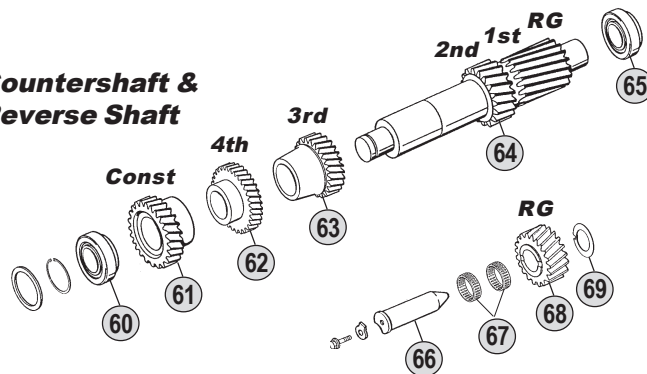
**Springs & Slides Kits**

x 3
x 3
<b>Kit 73</b>

**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

16S112/1 A :--	B :--	C : 13,68 - 1,00	D :--	E :--
16S130/1 A : 10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E :--
16S160/1 A :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	DAF no.					16S112/1 (1296)	16S130/1 (1296)	16S160/1 (1297)			
45	154.136	1297 304 450	66366	Sliding Sleeve	1			●					
45		1268 304 570	1228194	Sliding Sleeve	1		A		●				
45	154.136	1297 304 450	66366	Sliding sleeve	1		BCD		●				
45	154.136	1297 304 450	66366	Sliding sleeve	1					●			
46	137.159	0735 320 548	689912	Needle Cage D.70x78x46	1			●					
46	137.159	0735 320 548	689912	Needle Cage D.70x78x46	1		A		●				
46	137.085	0735 320 496	692206	Needle Cage D.70x78x55	1		BCD		●				
46	137.110	0735 320 487	691354	Needle Cage D.82x90x68	1					●			
47	117.246	1297 304 035	691392	Bush	1					●			
48	145.505	1296 304 099	689913	Gear 1st Speed 47 T	1		C	●					
48		1295 304 270	696928	Gear 1st Speed 41 T	1		A		●				
48	145.506	1295 304 203	691791	Gear 1st Speed 44 T	1		BD		●				
48	145.279	1295 304 202	698135	Gear 1st Speed 47 T	1		C		●				
48	145.507	1297 304 270	67082	Gear 1st Speed 44 T	1		BD			●			
48	145.376	1297 304 441	689292	Gear 1st Speed 47 T	1		CE			●			
49	109.075	1295 304 206	691792	Engaging Ring	1			●					
49	109.184	1295 304 024	692088	Engaging Ring	1		A		●				
49	109.075	1295 304 206	691792	Engaging Ring	1		BCD		●				
49	109.178	1297 304 154	689293	Engaging Ring	1					●			
50	117.203	1295 304 012	692089	Bush D.60x75x38	1			●					
50	117.203	1295 304 012	692089	Bush D.60x75x38	1		ABC		●				
50	117.318	1297 304 034	691391	Bush	1		BC			●			
51	137.086	0750 115 059	692207	Needle Cage D.75x83x40	1			●	●				
51	137.111	0735 320 486	691353	Needle Cage D.78x86x44	1					●			
52	147.136	1296 304 097		Reverse Gear 38 T	1		C	●					
52		1295 304 272	696929	Reverse Gear 39 T	1		A		●				
52	147.138	1295 304 201	691793	Reverse Gear 39 T	1		BD		●				
52	147.093	1295 304 200	698136	Reverse Gear 38 T	1		C		●				
52	147.109	1297 304 149	67083	Reverse Gear 39 T	1		BD			●			
52	147.140	1297 304 148	689294	Reverse Gear 38 T	1		CE			●			
53	169.756	1296 304 117	689915	Thrust Washer	1			●					
53	169.409	1295 304 240	691794	Thrust Washer	1		ABC		●				
53	169.757	1297 304 381	66370	Thrust Washer	1		BC			●			
54	157.211	1295 304 247	689920	Sun Gear 27 T	1			●					
54	157.112	1295 304 248	692094	Sun Gear 27 T	1		ABC		●				
54	157.177	1297 304 187	66377	Sun Gear 27 T	1		BC			●			
55	157.207	1295 304 251	67060	Sun Gear 24 T	1		D		●				
55	157.198	1297 304 439	689295	Sun Gear 24 T	1		DE			●			
56	188.076	1272 304 021	609466	Stop Washer	1			●	●	●			
57		0730 061 842	692222	Oil Tube	1			●	●	●			
58		1295 304 129	692066	Oil Collector	1			●					
58		1295 304 129	692066	Oil Collector	1		ABC		●				
58		1297 301 004	691381	Oil Collector	1		D		●				
58		1297 301 004	691381	Oil Collector	1					●			
59	130.240	0750 118 153	69105	Bearing D.60x130x31	1			●					

## Notes

- (1) Only for input Shaft 1295 202 052
- (2) Only for input Shaft 1295 221 003 - 1297 221 008
- (3) To be coupled together with Fig. 4 - 0730 061 816
- (4) To be coupled together with Fig. 4 - 0730 062 579

## Date

03 / 2006

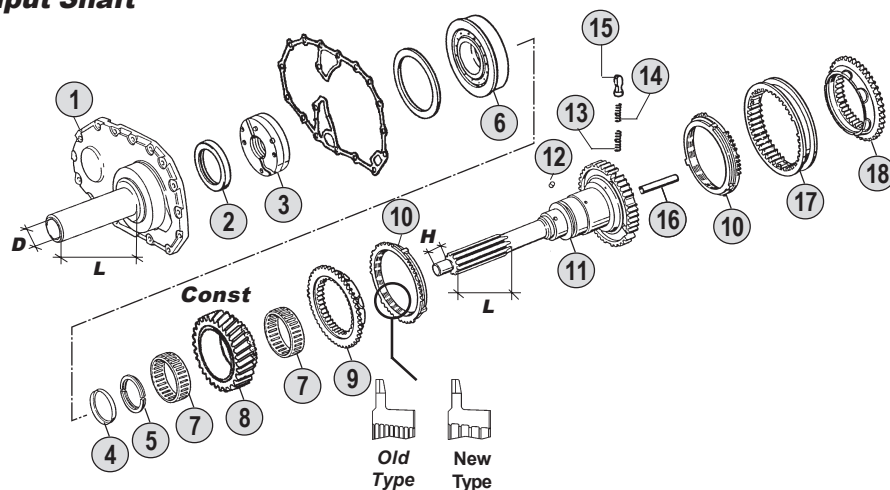
## Table

020 / A

Suitable To : **ZF**

**16S112/1 - 16S130/1 - 16S160/1**

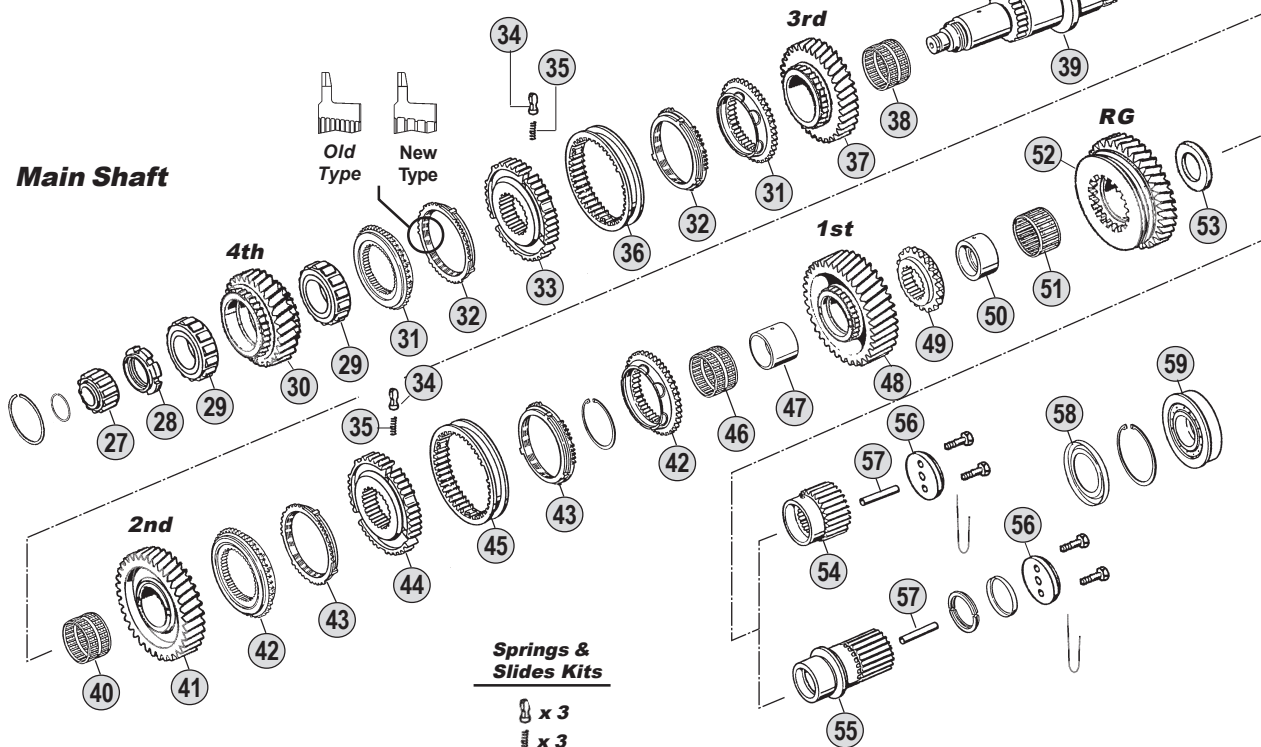
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 70</b>	<b>Kit 71</b>	<b>Kit 72</b>

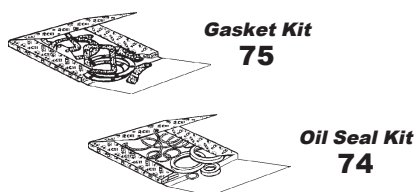
**Main Shaft**



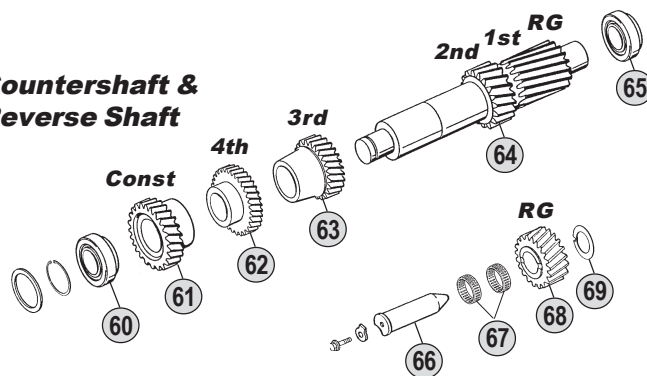
**Springs & Slides Kits**

x 3
x 3
<b>Kit 73</b>

**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

16S112/1 A :--	B :--	C : 13,68 - 1,00	D :--	E :--
16S130/1 A : 10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E :--
16S160/1 A :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00

16S112/1 (1296)  
16S130/1 (1298)  
16S160/1 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	DAF no.					16S112/1 (1296)	16S130/1 (1298)	16S160/1 (1297)			
59	130.240	0750 118 153	69105	Bearing D.60x130x31	1		ABC		●				
59		0750 118 137	67052	Bearing 80x140x26	1		D		●				
59		0750 118 006	66357	Bearing 65x140x33	1		BC			●			
59		0750 118 180	689289	Bearing 80x140x33	1		DE				●		
60	130.242	0750 117 010	692181	Bearing D.50,80x100x35	1			●	●	●			
61	146.364	1296 303 014	689907	Constant Gear 34 T	1		C	●					
61	146.210	1295 303 101	1339401	Constant Gear 34 T	1		AC		●				
61	146.354	1295 303 036	692078	Constant Gear 31 T	1		B		●				
61	146.457	1295 303 060	67055	Constant Gear 32 T	1		D		●				
61	146.383	1297 303 074	67079	Constant Gear 31 T	1		B				●		
61	146.322	1297 303 066	66361	Constant Gear 34 T	1		C				●		
61	146.319	1297 303 098	1327922	Constant Gear 32 T	1		D				●		
61	146.321	1297 303 086	691387	Constant Gear 35 T	1		E				●		
62	146.363	1296 303 002	689908	Gear 4th Speed 31 T	1		C	●					
62	146.209	1295 303 027	696925	Gear 4th Speed 31 T	1		AC		●				
62	146.413	1295 303 028	692079	Gear 4th Speed 34 T	1		B		●				
62	146.461	1295 303 094	67056	Gear 4th Speed 35 T	1		D		●				
62	146.382	1297 303 072	67080	Gear 4th Speed 34 T	1		B				●		
62	146.381	1297 303 065	66362	Gear 4th Speed 31 T	1		C				●		
62	146.415	1297 303 097	1336470	Gear 4th Speed 35 T	1		D				●		
62	146.416	1297 303 123	691385	Gear 4th Speed 32 T	1		E				●		
63	146.419	1296 303 009	689906	Gear 3rd Speed 25 T	1		C	●					
63		1295 303 071	696923	Gear 3rd Speed 36 T	1		A		●				
63	146.355	1295 303 025	692077	Gear 3rd Speed 28 T	1		BD		●				
63	146.211	1295 303 026	698138	Gear 3rd Speed 25 T	1		C		●				
63	146.357	1297 303 073	67078	Gear 3rd Speed 28 T	1		BD				●		
63	146.421	1297 303 067	66360	Gear 3rd Speed 25 T	1		C				●		
63	146.422	1297 303 132	691386	Gear 3rd Speed 26 T	1		E				●		
64	105.104	1296 303 025	689904	Countershaft 17-20 T	1		C	●					
64		1295 303 072	696622	Countershaft	1		A		●				
64	105.119	1295 303 067	697068	Countershaft 19-23 T	1		BD		●				
64	105.060	1295 303 066	698137	Countershaft 17-20 T	1		C		●				
64	105.092	1297 303 075	67077	Countershaft 19-23 T	1		BD				●		
64	105.093	1297 303 140	689298	Countershaft 17-20 T	1		CE				●		
65	130.307	0750 117 011	689905	Bearing D.50,8x104,7x39,6	1			●					
65	130.243	0750 117 008	692180	Bearing D.50x110x42	1				●				
65	130.308	0750 117 009	691357	Bearing D.49,2x103,1x43,6	1						●		
66	107.108	1295 305 056	692068	Reverse Gear Pin	1			●	●	●			
67	137.007	0750 115 011	584385	Needle Cage D.45x53x21	2			●	●	●			
68	147.094	1295 305 052	689290	Reverse Gear 24 T	1		C	●					
68	147.153	1297 305 003	692067	Reverse Gear 21 T	1		A		●				
68	147.133	1295 305 051	691719	Reverse Gear 21 T	1		BD		●				
68	147.094	1295 305 052	689290	Reverse Gear 24 T	1		C		●				
68	147.133	1295 305 051	691719	Reverse Gear 21 T	1		BD				●		
68	147.094	1295 305 052	689290	Reverse Gear 24 T	1		CE				●		

## Notes

- (1) Only for input Shaft 1295 202 052
- (2) Only for input Shaft 1295 221 003 - 1297 221 008
- (3) To be coupled together with Fig. 4 - 0730 061 816
- (4) To be coupled together with Fig. 4 - 0730 062 579

## Date

03 / 2006

## Table

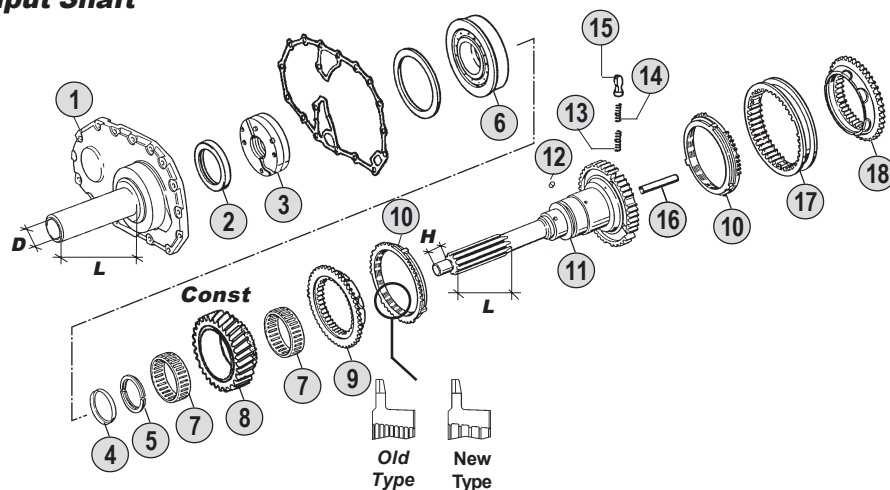
020 / A

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Suitable To : **ZF**

**16S112/1 - 16S130/1 - 16S160/1**

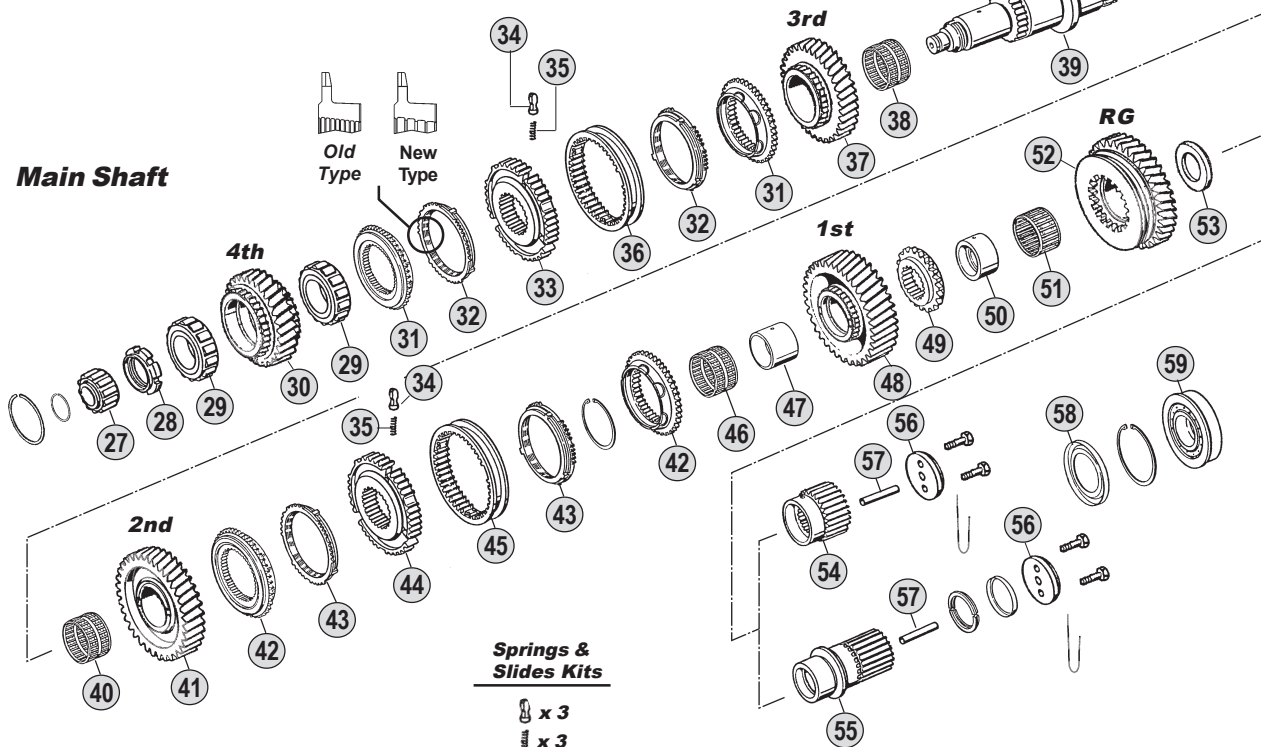
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 70</b>	<b>Kit 71</b>	<b>Kit 72</b>

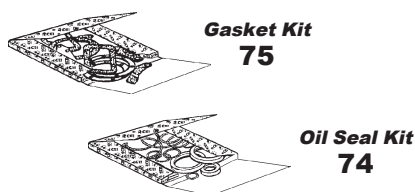
**Main Shaft**



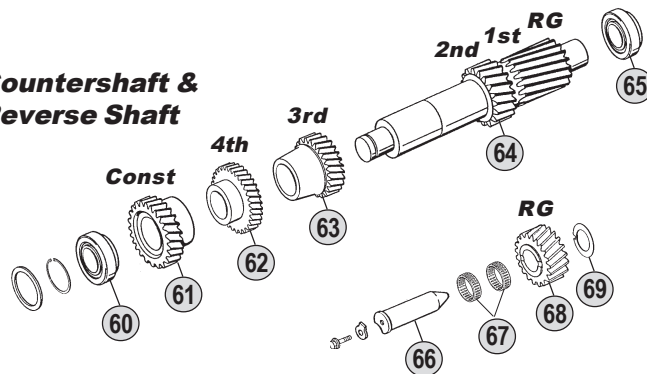
**Springs & Slides Kits**

x 3
x 3
<b>Kit 73</b>

**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

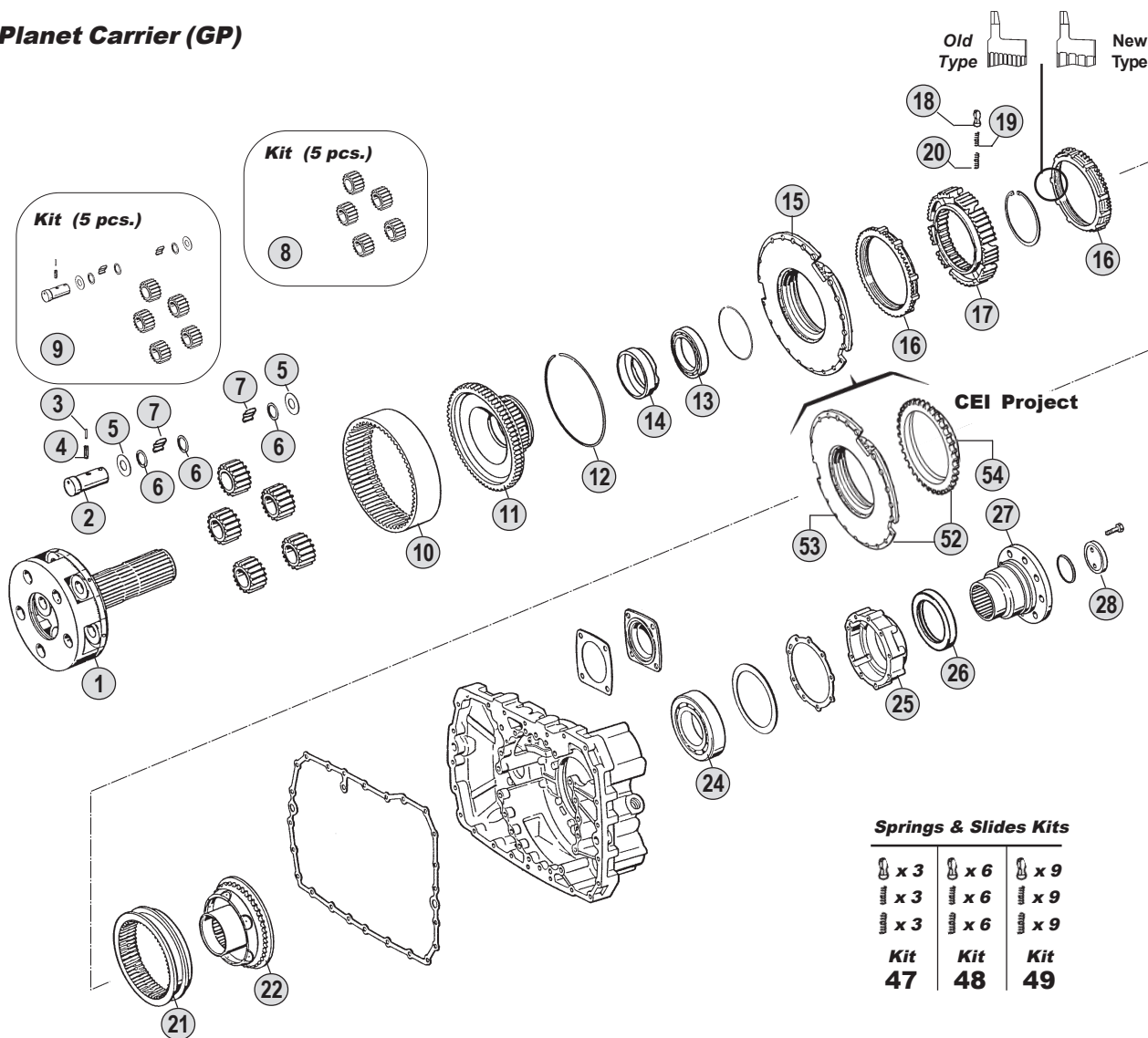
16S112/1 A :--	B :--	C : 13,68 - 1,00	D :--	E :--
16S130/1 A : 10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E :--
16S160/1 A :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00



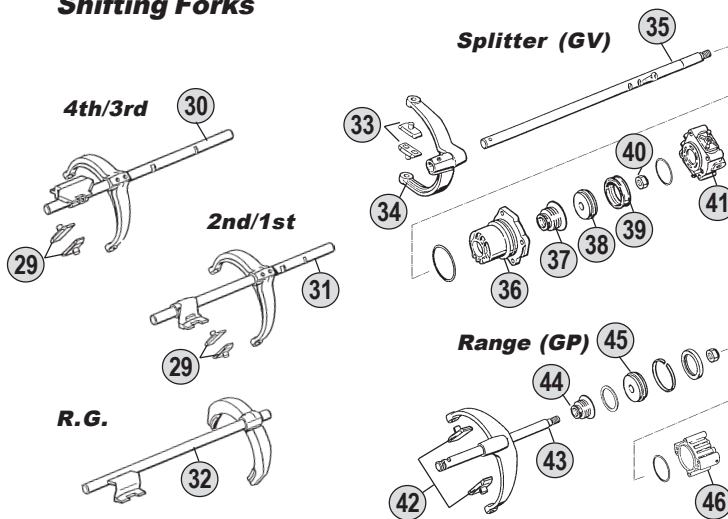
Suitable To : **ZF**

**16S112/1 - 16S130/1 - 16S160/1**

**Planet Carrier (GP)**



**Shifting Forks**



**Kits**



**Ratios**

16S112/1 A :--	B :--	C : 13,68 - 1,00	D :--	E :--
16S130/1 A : 10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E :--
16S160/1 A :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00



Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	DAF no.					16S112/1 (1298)	16S130/1 (1298)	16S160/1 (1297)			
1	190.169	1295 232 044	696095	Planetary Carrier	1			●					
1	190.169	1295 232 044	696095	Planetary Carrier	1		ABC		●				
1	190.395	1297 232 045	67062	Planetary Carrier	1		D		●				
1	190.396	1297 232 039	66391	Planetary Carrier	1		BC			●			
1	190.395	1297 232 045	67062	Planetary Carrier	1		DE			●			
2	<b>107.089</b>	1269 332 036	692256	Planet Shaft	5			●					
2	<b>107.089</b>	1269 332 036	692256	Planet Shaft	5		ABC		●				
2	107.163	1297 332 109	691407	Planet Shaft	5		D		●				
2	107.163	1297 332 109	691407	Planet Shaft	5					●			
3	160.191	0631 329 017		Lock Pin D.3x24	5			●	●	●			
4	160.192	0631 329 050		Lock Pin D.5x24	5			●	●	●			
5	169.408	0501 305 887	692255	Thrust Washer D.29x57,50x1,50	10			●					
5	169.408	0501 305 887	692255	Thrust Washer D.29x57,50x1,50	10		ABC		●				
5	169.753	0501 306 212	691327	Thrust Washer D.29x64x1,5	10		D		●				
5	169.753	0501 306 212	691327	Thrust Washer D.29x64x1,5	10					●			
6	<b>169.410</b>	0730 103 846	692246	Spacer Ring D.29x39x1,00	15			●	●	●			
7	<b>171.016</b>	0735 470 057	692254	Roller Set D.6x14,75 (180 pcs)	180			●					
7	<b>171.016</b>	0735 470 057	692254	Roller Set D.6x14,75 (180 pcs)	180		ABC		●				
7	171.045	0750 119 109	691356	Roller Set D.10x16,80 (120 pcs)	120		D		●				
7	171.045	0750 119 109	691356	Roller Set D.10x16,80 (120 pcs)	120					●			
8	<b>198.357</b>	1295 232 027	692138	Planetary Gear Set (5 pcs)	1			●					
8	<b>198.357</b>	1295 232 027	692138	Planetary Gear Set (5 pcs)	1		ABC		●				
8	198.810	1297 232 024	691380	Planetary Gear Set (5 pcs)	1		D		●				
8	198.803	1297 232 023	66390	Planetary Gear Set (5 pcs)	1		BC			●			
8	198.810	1297 232 024	691380	Planetary Gear Set (5 pcs)	1		DE			●			
9	198.562	1296 298 904		Planetary Gear Set	1			●					
9	198.562	1296 298 904		Planetary Gear Set	1		ABC		●				
9	<b>198.704</b>	1297 298 912		Planetary Gear Set	1		BC			●			
9		1297 298 919		Planetary Gear Set	1		DE			●			
10	123.162	1295 332 053	696457	Crown Gear 83 T	1			●					
10	123.162	1295 332 053	696457	Crown Gear 83 T	1		ABC		●				
10	123.208	1295 332 086	69091	Crown Gear 86 T	1		D		●				
10	123.217	1297 332 080	66393	Crown Gear 83 T	1		BC			●			
10	123.208	1295 332 086	69091	Crown Gear 86 T	1		DE			●			
11	150.112	1295 332 021	692139	Flange Gear 83 T	1			●					
11	150.112	1295 332 021	692139	Flange Gear 83 T	1		ABC		●				
11	150.137	1297 332 035	691409	Flange Gear 86 T	1		D		●				
11	150.138	1297 332 017	66392	Flange Gear 83 T	1		BC			●			
11	150.137	1297 332 035	691409	Flange Gear 86 T	1		DE			●			
12	111.129	0730 505 055	692259	Locking Wire	1			●					
12	111.129	0730 505 055	692259	Locking Wire	1		ABC		●				
12	111.198	0730 505 056	691340	Locking Wire	1		D		●				
12	111.129	0730 505 055	692259	Locking Wire	1		BC			●			
12	111.198	0730 505 056	691340	Locking Wire	1		DE			●			
13	130.244	0750 116 166	692253	Bearing D.75x105x16	1			●					

Notes

Date

03 / 2006

Table

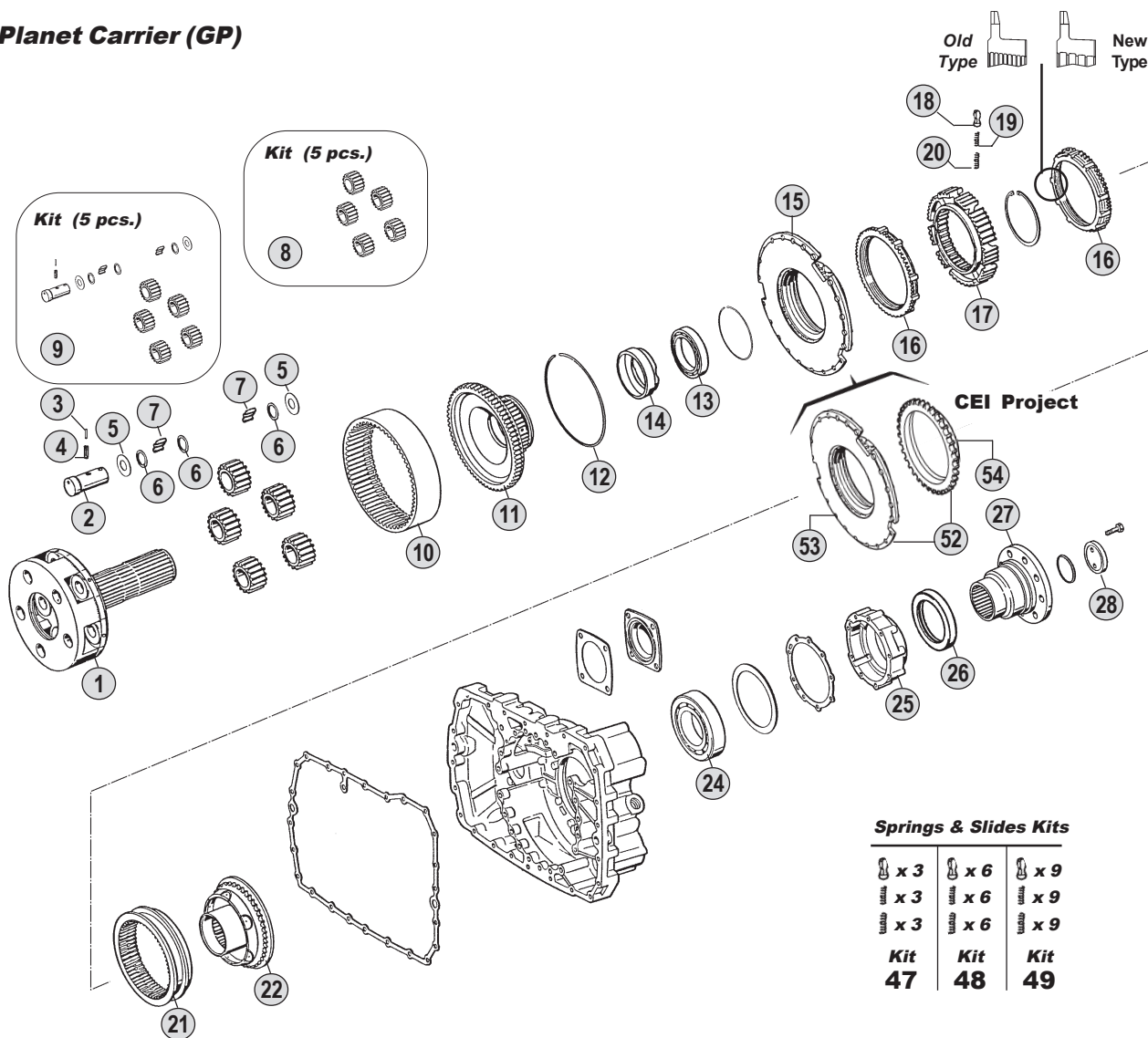
020 / B

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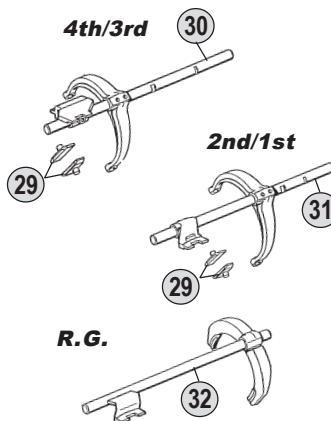
Suitable To : **ZF**

**16S112/1 - 16S130/1 - 16S160/1**

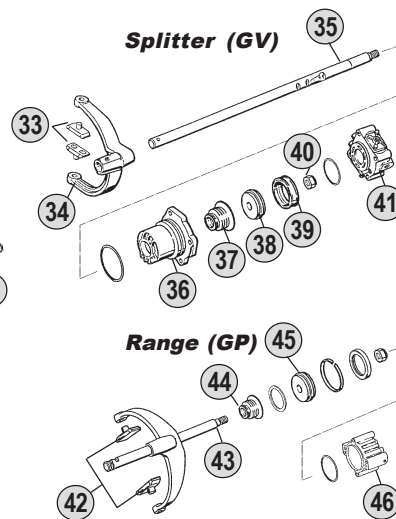
**Planet Carrier (GP)**



**Shifting Forks**



**Splitter (GV)**



**Kits**



**Ratios**

<b>16S112/1 A</b> :-	<b>B</b> :-	<b>C</b> : 13,68 - 1,00	<b>D</b> :-	<b>E</b> :-
<b>16S130/1 A</b> : 10,14-0,72	<b>B</b> : 11,46 - 0,85	<b>C</b> : 13,68 - 1,00	<b>D</b> : 14,29 - 0,82	<b>E</b> :-
<b>16S160/1 A</b> :-	<b>B</b> : 11,46 - 0,85	<b>C</b> : 13,68 - 1,00	<b>D</b> : 14,29 - 0,82	<b>E</b> : 17,06-1,00

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16S112/1 (1298)  
16S130/1 (1298)  
16S160/1 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	DAF no.					16S112/1 (1298)	16S130/1 (1298)	16S160/1 (1297)		
13	130.244	0750 116 166	692253	Bearing D.75x105x16	1		ABC	●				
13	130.310	0750 116 165	69395	Bearing D.80x110x16	1		D	●				
13	130.310	0750 116 165	69395	Bearing D.80x110x16	1				●			
14		1297 332 002	1300625	Ring	1		D	●				
14		1297 332 002	1300625	Ring	1				●			
15	198.358	1296 233 006	689812	Synchronizer Cone	1			●	●	●		
16	119.085	1296 333 022	1303708	Synchronizer Ring	2	Old Type		●	●	●		
16	119.172	1296 333 045	1354113	Synchronizer Ring	2	New Type		●	●	●		
17	157.113	1296 333 002	692167	Synchronizer Hub	1			●	●	●		
18	160.116	1240 304 278	326962	Pressure Piece	9			●	●	●		
19	156.036	0732 040 386	326964	Inner Spring De.3x34	9			●	●	●		
20	156.037	0732 040 385	326963	Outer Spring De.6x34	9			●	●	●		
21	154.098	1296 333 023	689814	Sliding Sleeve	1			●	●	●		
22	198.359	1295 233 025	696096	Synchronizer Cone (36 Spl.)	1			●				
22	198.359	1295 233 025	696096	Synchronizer Cone (36 Spl.)	1		ABC		●			
22	198.374	1313 233 001	691378	Synchronizer Cone (38 Spl.)	1		D		●			
22	198.374	1313 233 001	691378	Synchronizer Cone (38 Spl.)	1					●		
24	130.245	0750 116 002	692184	Bearing D.90x160x30	1			●	●	●		
25		1296 301 067	513935	Cover	1			●	●	●		
25	128.098	1315 301 220	691805	Cover	1			●	●	●		
26		0750 111 341	1304242	Oil Seal 105x130x12	1			●	●	●		
27	197.051	1295 338 014	692165	Output Flange	1	D.180-10 H.		●				
27		1295 338 061	698639	Output Flange	1	D.180-4 H.	ABC		●			
27		1297 338 041	689335	Output Flange	1	D.180-4 H.	D		●			
27		1297 338 041	689335	Output Flange	1	D.180-4 H.				●		
28	188.077	1295 332 051	696097	Stop Washer	1			●	●	●		
29	141.163	1297 306 120	66379	Slide	2			●	●	●		
30		1296 206 061	689923	Fork	1			●				
30		1295 206 212	513912	Fork	1				●			
30		1297 206 103	66380	Fork	1					●		
31		1296 206 062	697691	Fork	1			●				
31		1295 206 217	1228199	Fork	1				●			
31		1295 206 215	513911	Fork	1				●			
31		1297 206 106		Fork	1					●		
32		1296 206 078	689924	Fork	1			●				
32		1295 206 249	1228200	Fork	1				●			
32		1295 206 254	68985	Fork	1				●			
32		1297 206 174	69703	Fork	1					●		
33	141.068	1295 306 132	696445	Bronze Slide	2			●	●	●		
34		1313 312 002	689936	Fork	1			●	●	●		
35		1296 312 001	689935	Selector Rod	1			●				
35	149.172	1295 312 018	692131	Selector Rod	1				●			
35		1297 312 008	691405	Selector Rod	1					●		
36	132.046	1296 312 042	692130	Cylinder	1			●	●	●		
37	139.331	0750 112 034	692237	Cap Collar D.25x38x14,2	1			●	●	●		

Notes

Date

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Table

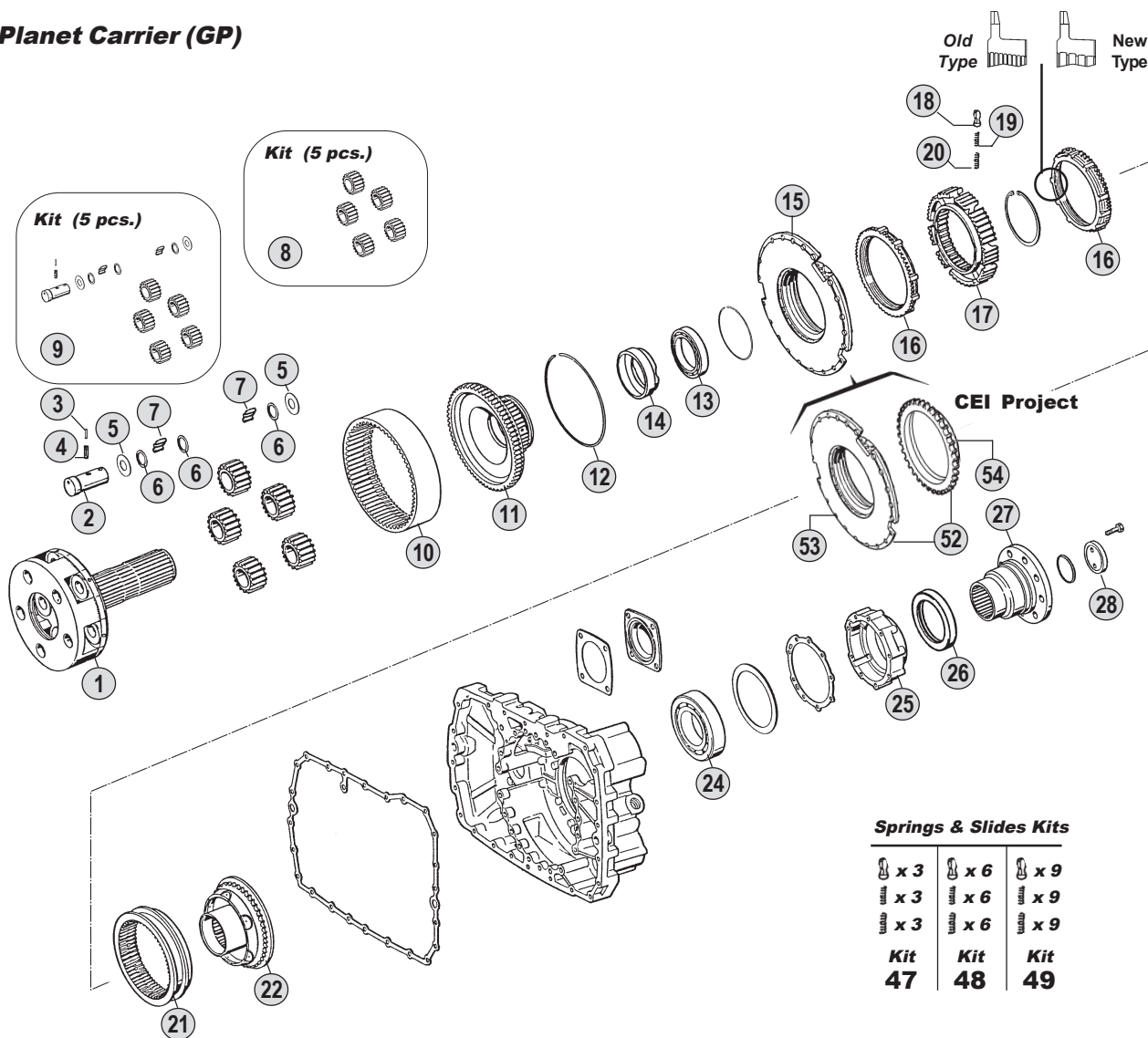
020 / B

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Suitable To : **ZF**

**16S112/1 - 16S130/1 - 16S160/1**

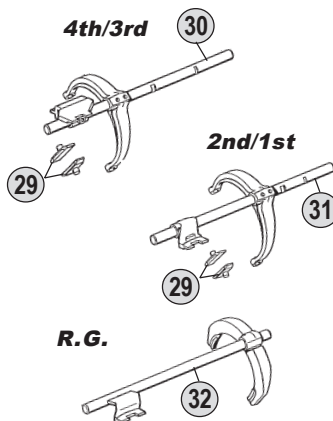
**Planet Carrier (GP)**



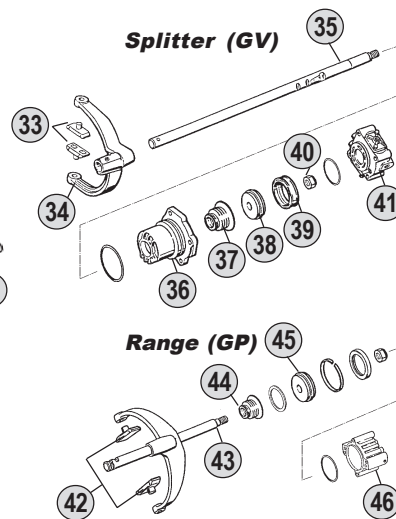
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 47</b>	<b>Kit 48</b>	<b>Kit 49</b>

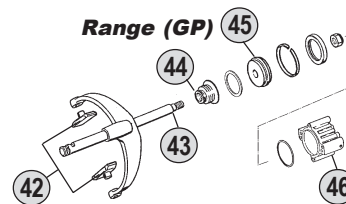
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S112/1</b> A :--	B :--	C : 13,68 - 1,00	D :--	E :--
<b>16S130/1</b> A : 10,14-0,72	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E :--
<b>16S160/1</b> A :--	B : 11,46 - 0,85	C : 13,68 - 1,00	D : 14,29 - 0,82	E : 17,06-1,00



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suitable to :

**Z.F.****EcoSplit II****From 16S150 to 16S220****Application**

	16S150 (1313)	16S220 (1312)		
<b>MERCEDES</b>				
<b>MAN</b>				
<b>IVECO</b>				
<b>RVI</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**Ratios**

	R.10,14-0,72 <b>A</b>	R.13,80-0,84 <b>B</b>	R.16,47-1,00 <b>C</b>		
<b>16S150</b>					
<b>16S220</b>					

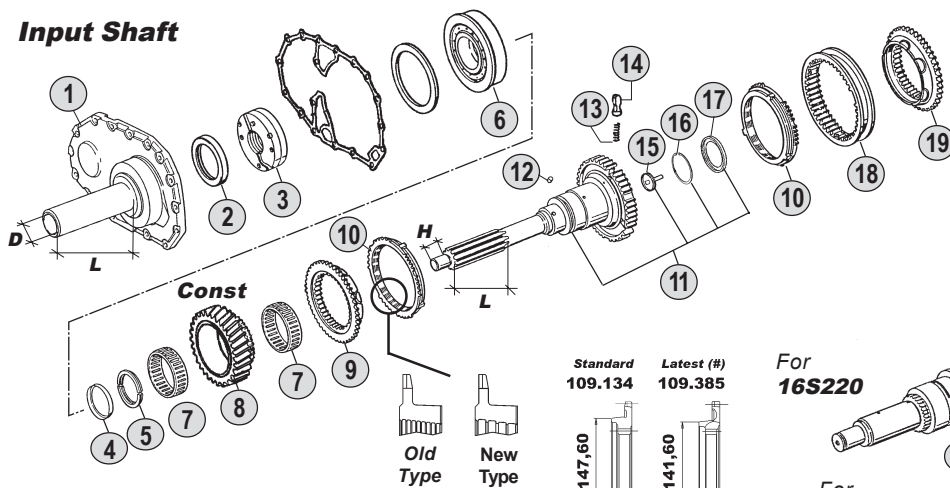
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**ECO II**From 16S150  
To 16S220

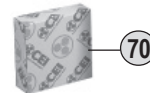
Suitable To : **ZF**

**16S150 - 16S220**

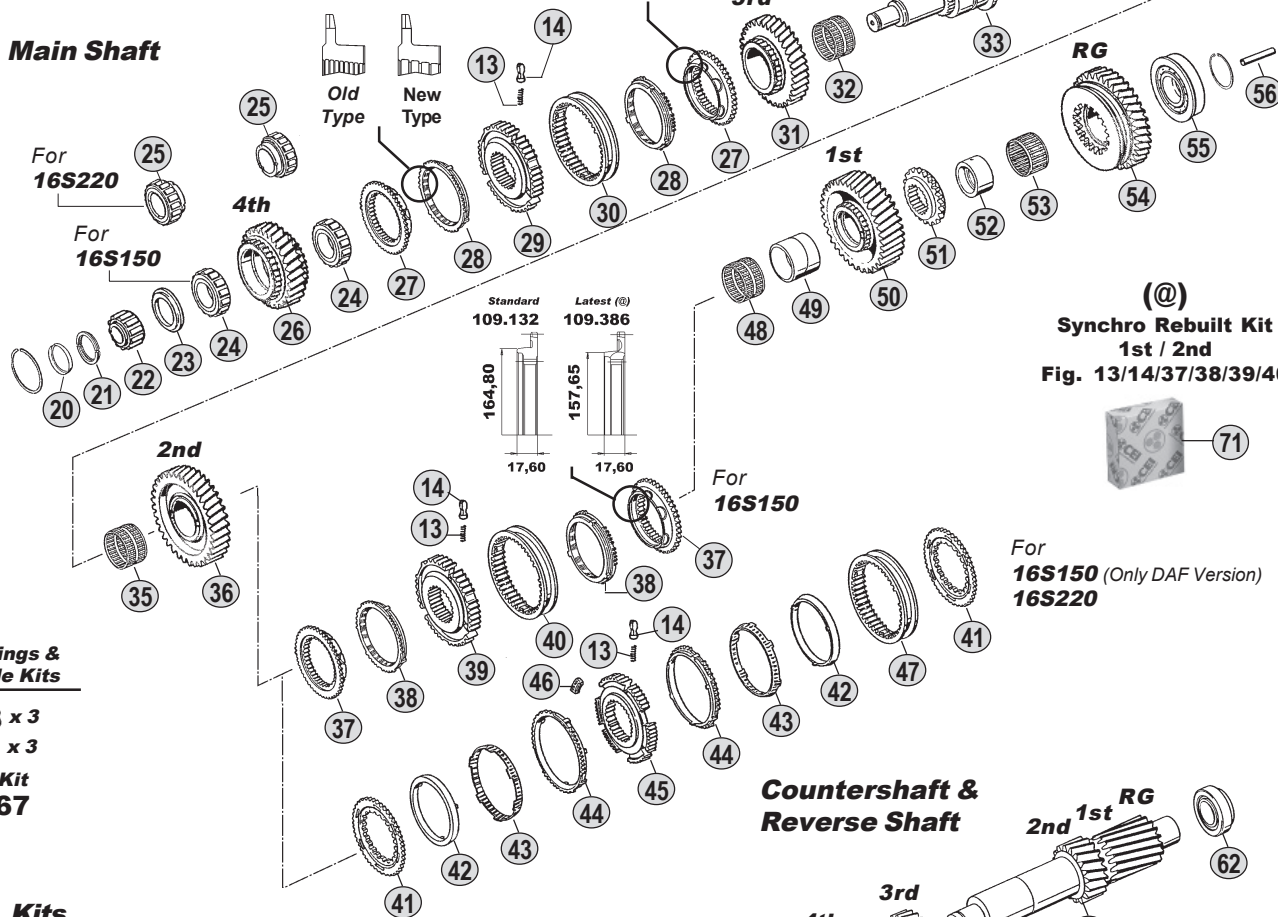
**Input Shaft**



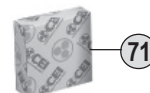
**(#)**  
**Synchro Rebuilt Kit**  
 4th / 3rd  
 Fig. 13/14/27/28/29/30



**Main Shaft**



**(@)**  
**Synchro Rebuilt Kit**  
 1st / 2nd  
 Fig. 13/14/37/38/39/40



For  
**16S150 (Only DAF Version)**  
**16S220**

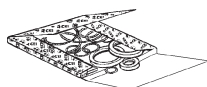
**Springs & Slide Kits**

**x 3**  
**x 3**  
**Kit**  
**67**

**Kits**

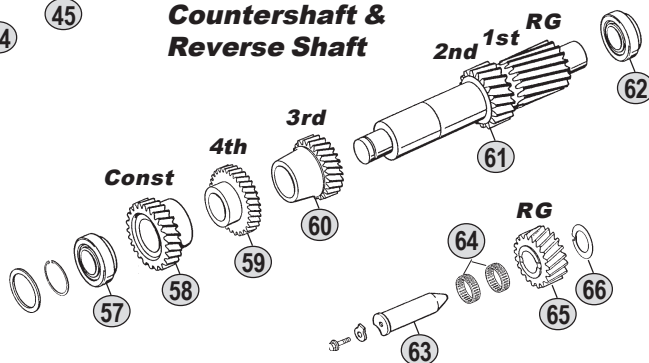


**Gasket Kit**  
**69**



**Oil Seal Kit**  
**68**

**Countershaft & Reverse Shaft**



**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	DAF no.					16S150 (1313)	16S220 (1312)					
1		1312 302 096	1294098	Front Cover	1	L=147-D=60		●	●					
2		0734 310 386	1360734	Oil Seal 55x75x8	1			●	●					
2		0634 310 733	691662	Oil Seal 90x110x13	1	(1)		●	●					
3	<b>280.348</b>	1295 202 041	692203	Oil Pump	1			●	●					
4	169.754	0730 061 816	609456	Securing Ring	1			●	●					
5		0730 106 168		Split Ring	1	S.4,30 mm		●	●					
5		0730 106 158		Split Ring	1	S.3,80 mm		●	●					
6	<b>130.306</b>	0750 117 431	1212182	Bearing D.75x150x30,50	1			●	●					
7	137.148	0750 115 310	69560	Needle Cage D.93x101x25	1			●	●					
7	<b>137.134</b>	0735 321 438	1330140	Needle Cage D.93x101x32,50	1				●					
8	<b>145.557</b>	1313 302 036	69559	Constant Gear 34 T	1		B	●	●					
8	145.525	1313 302 035	1235370	Constant Gear 30 T	1		C	●	●					
8		1312 302 077	1250334	Constant Gear 28 T	1		A		●					
8	<b>145.491</b>	1312 302 073	1212183	Constant Gear 34 T	1		B		●					
8	145.490	1312 302 074	1212184	Constant Gear 30 T	1		C		●					
9	<b>109.134</b>	1312 304 027	69584	Synchronizer Cone	1			●	●					
10	<b>119.119</b>	1297 304 402	66373	Synchronizer Ring	2	Old Type		●	●					
10	<b>119.167</b>	1297 304 484	1342731	Synchronizer Ring	2	New Type		●	●					
11	<b>102.234</b>	1313 202 013	69554	Input Shaft	1			●	●					
11	102.241	1313 202 015	1235317	Input Shaft	1			●	●					
11		1313 221 004	1252269	Input Shaft	1	NMV130 (Clutch PTO)		●	●					
11		1312 202 036	1250333	Input Shaft	1				●					
12		0635 470 012	110478	Pin	1			●	●					
13	<b>156.140</b>	0732 040 409	171349	Spring D.6,50x23,50	3			●	●					
14	<b>160.189</b>	1297 304 436	68332	Pressure Piece	3			●	●					
15		1312 302 095	1303880	Tube	1			●	●					
16		0630 502 027		Ring	1			●	●					
17		0501 320 435	1609562	Diaphragm	1			●	●					
18	<b>154.135</b>	1310 304 202	1377181	Sliding Sleeve	1			●	●					
19	<b>109.133</b>	1312 304 056	69561	Synchronizer Cone	1			●	●					
20		0730 062 781	69591	Ring	1			●	●					
21		0730 107 023	1381161	Split Ring	1	S.5,00 mm		●	●					
21		0730 107 019		Split Ring	1	S.4,60 mm		●	●					
22	<b>137.150</b>	0750 117 232	69589	Roller Cage D.42x40,30	1			●	●					
23		1315 304 051	1295204	Ring	1	S.8,30 mm		●	●					
24	<b>137.156</b>	0750 118 198	69583	Roller Cage D.67x101x32	1			●	●					
25		0750 118 258	1227024	Roller Cage D.67x101x38	1				●					
26	<b>146.476</b>	1313 304 005	69587	Gear 4th Speed 30 T	1		B	●	●					
26	146.442	1296 304 131	1235390	Gear 4th Speed 34 T	1		C	●	●					
26		1312 304 029	1250350	Gear 4th Speed 30T	1	(2)	A		●					
26	<b>146.425</b>	1312 304 032	1227026	Gear 4th Speed 30 T	1		B		●					
26	146.317	1312 304 031	1227025	Gear 4th Speed 34 T	1		C		●					
27	<b>109.134</b>	1312 304 027	69584	Synchronizer Cone	2			●	●					
27	<b>109.385</b>	1316 304 159		Synchronizer Cone	2		(#)	●	●					
28	<b>119.119</b>	1297 304 402	66373	Synchronizer Ring	2	Old Type		●	●					

## Notes

- (1) Only for input Shaft 1313 221 004  
 (2) 16S220 Special Version - Ratio 10,14-0,72. For this version to use :  
 4th Speed - Synchro Cone 1312 304 027 / 3rd Speed Synchro - Cone 1312 304 080  
 (3) 16S150 Gearboxes fitted on DAF Trucks use alternatively the version with single cone (fig.37 to 40)  
 and the version with double cone (fig.41-47). **DO NOT MIX** the two different version.  
 (#) Latest Synchro generation. **DO NOT MIX** the two different version. To update the previous one use  
 the synchro rebuilt kit fig. 70  
 (@) Latest Synchro generation. **DO NOT MIX** the two different version. To update the previous one use  
 the synchro rebuilt kit fig. 71

## Date

03 / 2006

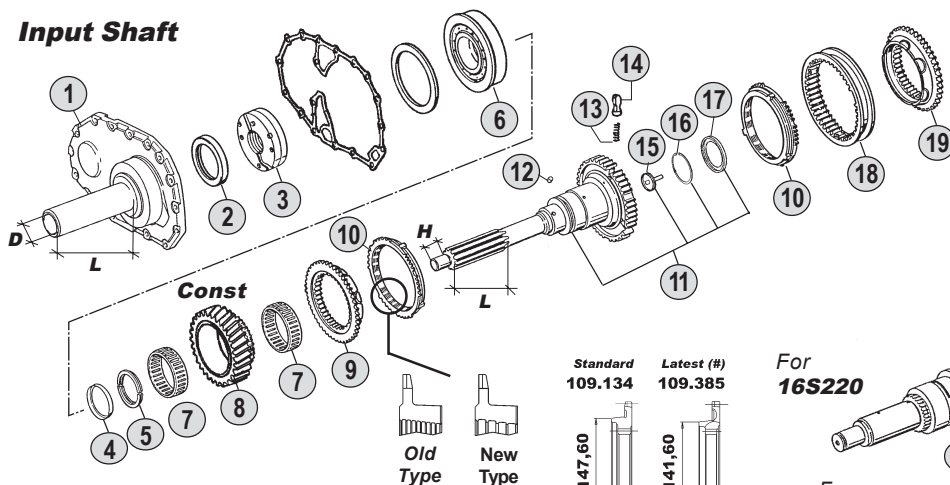
## Table

021 / A

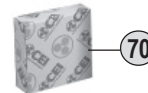
Suitable To : **ZF**

**16S150 - 16S220**

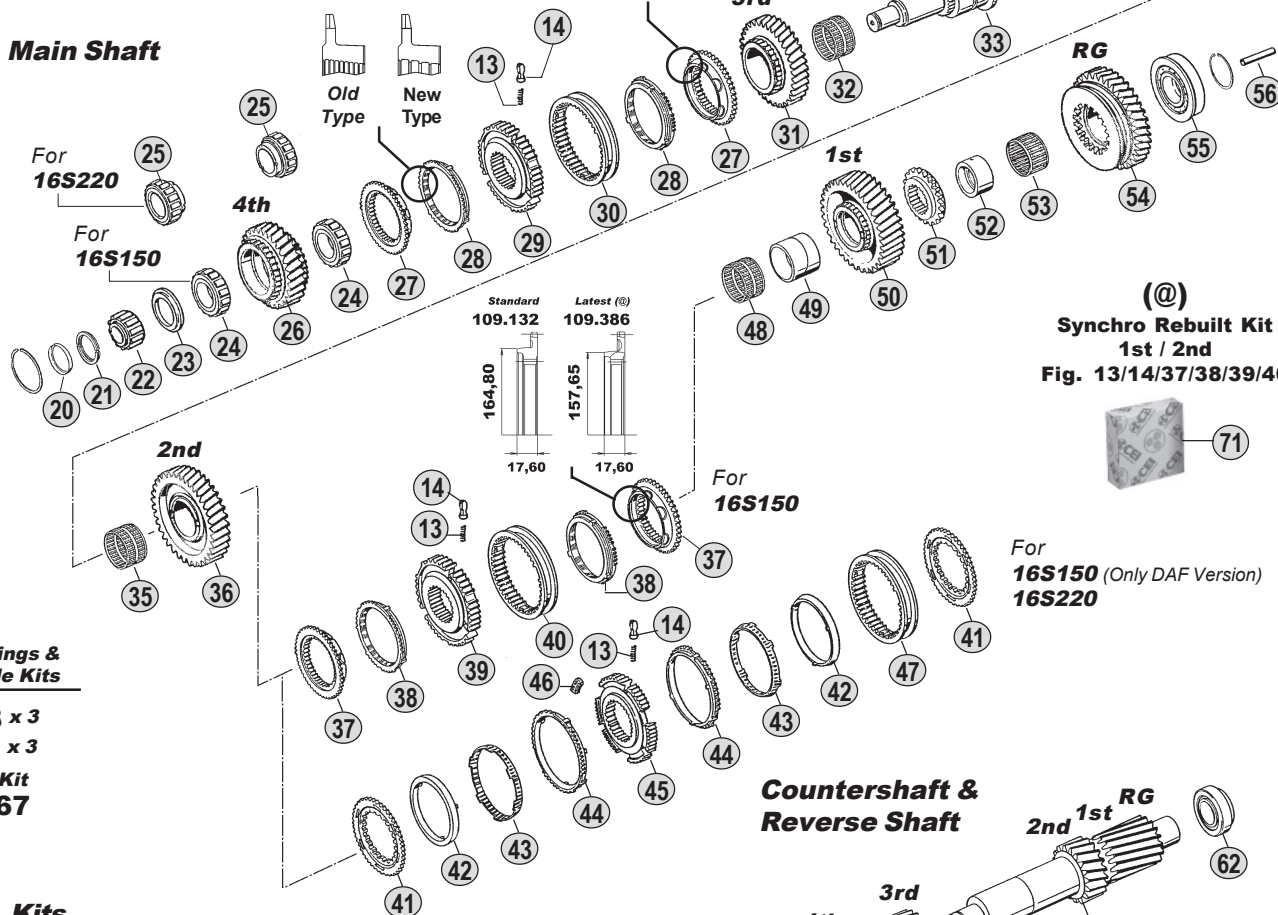
**Input Shaft**



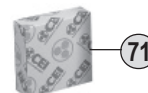
**(#)**  
**Synchro Rebuilt Kit**  
**4th / 3rd**  
**Fig. 13/14/27/28/29/30**



**Main Shaft**



**(@)**  
**Synchro Rebuilt Kit**  
**1st / 2nd**  
**Fig. 13/14/37/38/39/40**



**For**  
**16S150 (Only DAF Version)**  
**16S220**

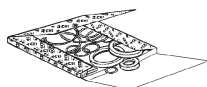
**Springs & Slide Kits**

**x 3**  
**x 3**  
**Kit**  
**67**

**Kits**

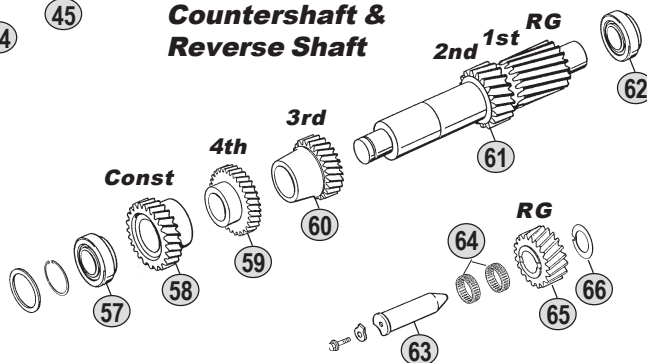


**Gasket Kit**  
**69**



**Oil Seal Kit**  
**68**

**Countershaft & Reverse Shaft**



**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	DAF no.					16S150 (1313)	16S220 (1312)					
28	119.167	1297 304 484	1342731	Synchronizer Ring	2	New Type		●	●					
28	119.217	1316 304 149		Synchronizer Ring	2		(#)	●	●					
29	157.180	1312 304 052	69585	Synchronizer Hub	1			●	●					
29	157.227	1316 304 162		Synchronizer Hub	1		(#)	●	●					
30	154.135	1310 304 202	1377181	Sliding Sleeve	1			●	●					
30	154.357	1315 304 135		Sliding Sleeve	1		(#)	●	●					
31	145.496	1313 304 080	69581	Gear 3rd Speed 32 T	1		B	●						
31	145.526	1313 304 081	1235378	Gear 3rd Speed 34 T	1		C	●						
31		1312 304 075	1250352	Gear 3rd Speed 25 T	1	(2)	A		●					
31	145.498	1312 304 137	1227022	Gear 3rd Speed 32 T	1		B		●					
31	145.497	1312 304 136	1227021	Gear 3rd Speed 34 T	1		C		●					
32	137.137	0735 321 087	69568	Needle Cage D.92x100x53	1			●						
32		0735 321 451		Needle Cage D.82x90x60	1		A		●					
32	137.138	0750 115 303	1227002	Needle Cage D.92x100x63	1		BC		●					
33	103.135	1315 304 130	1394573	Main Shaft	1			●						
34		1312 304 161	1250339	Main Shaft	1		A		●					
34	103.128	1316 304 130	1394744	Main Shaft	1		BC		●					
35	137.137	0735 321 087	69568	Needle Cage D.92x100x53	1			●						
35	137.138	0750 115 303	1227002	Needle Cage D.92x100x63	1				●					
36	145.502	1313 304 078	69569	Gear 2nd Speed 37 T	1		B	●						
36	145.527	1313 304 077	1235375	Gear 2nd Speed 38 T	1		C	●						
36		1312 304 142		Gear 2nd Speed	1		A		●					
36	145.504	1312 304 141	1227004	Gear 2nd Speed 37 T	1		B		●					
36	145.503	1312 304 139	1227003	Gear 2nd Speed 38 T	1		C		●					
37	109.132	1313 304 009	69572	Synchronizer Cone	2			●						
37	109.386	1316 304 156		Synchronizer Cone	2		(@)	●						
38	119.122	1297 304 401	66365	Synchronizer Ring	2	Old Type		●						
38	119.166	1297 304 485	1360740	Synchronizer Ring	2	New Type		●						
38	119.218	1316 304 150		Synchronizer Ring	2		(@)	●						
39	157.189	1313 304 008	69570	Synchronizer Hub	1			●						
39	157.228	1316 304 163		Synchronizer Hub	1		(@)	●						
40	154.202	1316 304 078	1360725	Sliding Sleeve	1			●						
40	154.358	1315 304 136		Sliding Sleeve	1		(@)	●						
41	109.176	1312 304 106	1227005	Synchronizer Cone	2	(3)		●						
41		1312 304 092	1250341	Synchronizer Cone	2		A		●					
41	109.176	1312 304 106	1227005	Synchronizer Cone	2		BC		●					
42	119.152	1268 304 424	1227006	Intermediate Ring	2	(3)		●	●					
43	119.153	1268 304 494	1377179	Intermediate Cone	2	(3)		●	●					
44	119.144	1268 304 525	1227008	Synchronizer Ring	2	(3)		●	●					
45	157.181	1312 304 158	1250147	Synchronizer Hub	1	(3)		●	●					
46	156.176	1312 304 159	1300312	Pad	3	(3)		●	●					
47	154.190	1310 304 175	1353770	Sliding Sleeve	1	(3)		●	●					
48	137.160	0750 115 325	69574	Needle Cage D.96x104x55	1			●						
48		0750 115 304	1250343	Needle Cage D.92x100x72	1		A		●					
48	137.151	0750 115 327	1227012	Needle Cage D.96x104x72	1		BC		●					

## Notes

- (1) Only for input Shaft 1313221004  
(2) 16S220 Special Version - Ratio 10,14-0,72. For this version to use :  
4th Speed - Synchro Cone 1312304027 / 3rd Speed Synchro - Cone 1312304080  
(3) 16S150 Gearboxes fitted on DAF Trucks use alternatively the version with single cone (fig.37 to 40)  
and the version with double cone (fig.41-47). **DO NOT MIX** the two different version.  
(#)**Latest** Synchro generation. **DO NOT MIX** the two different version. To update the previous one use  
the **synchro rebuilt kit fig. 70**  
(@)**Latest** Synchro generation. **DO NOT MIX** the two different version. To update the previous one use  
the **synchro rebuilt kit fig. 71**

## Date

03 / 2006

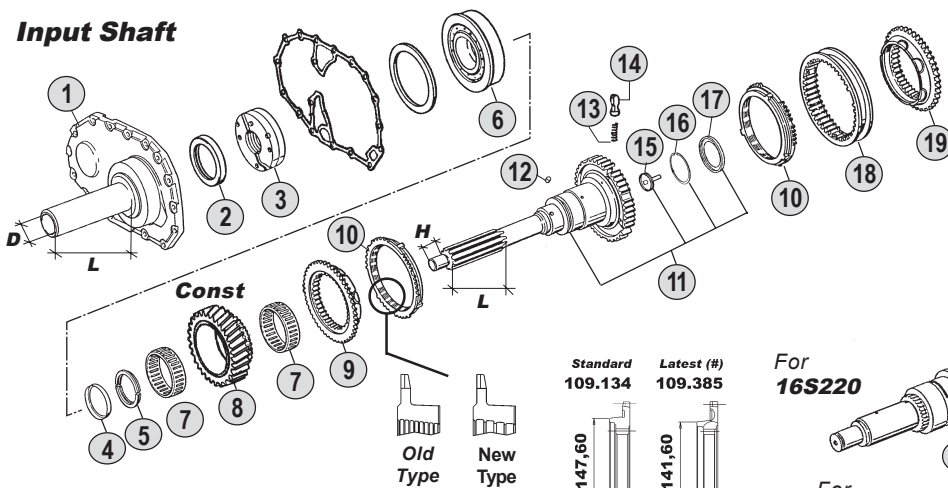
## Table

021 / A

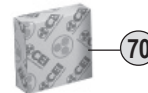
Suitable To : **ZF**

**16S150 - 16S220**

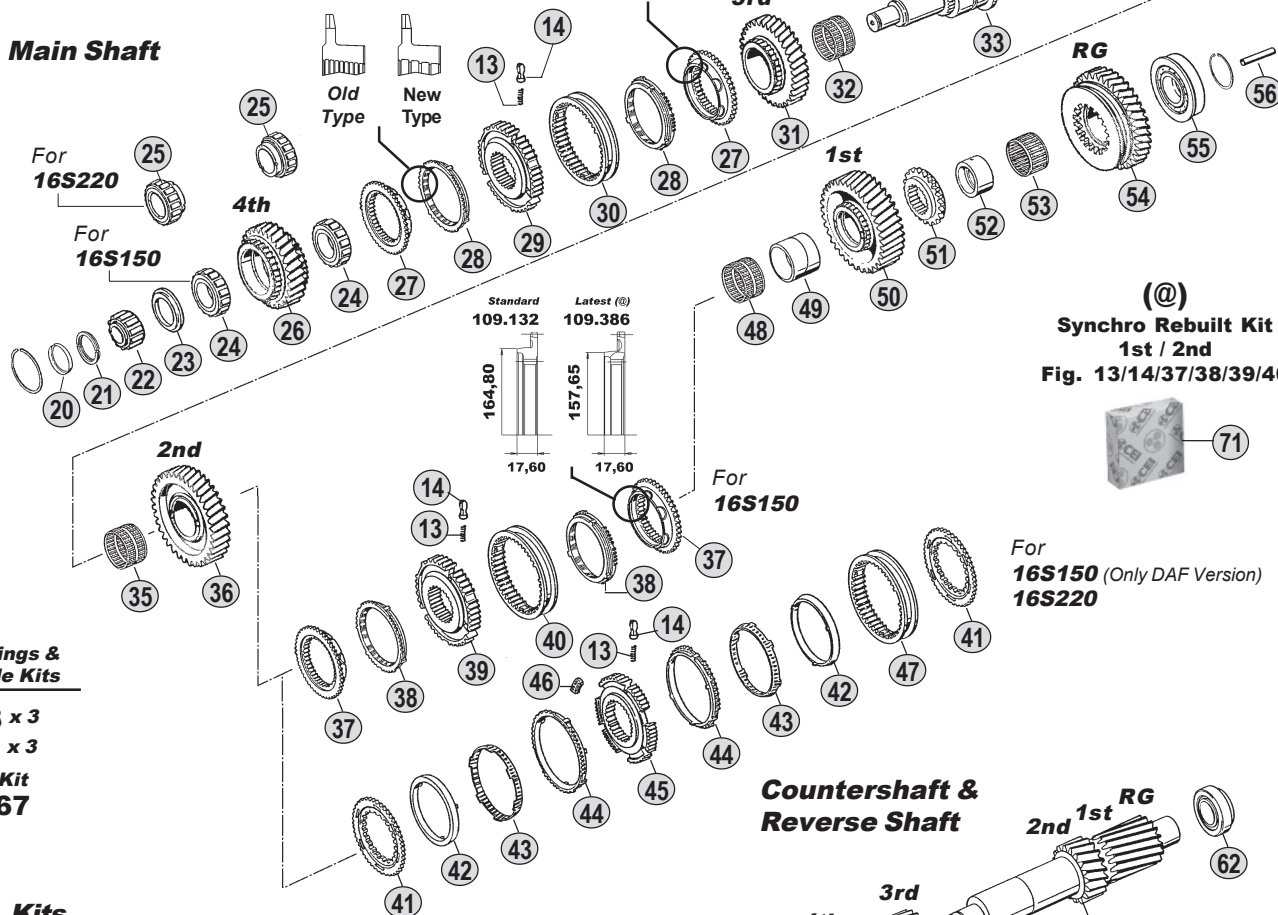
**Input Shaft**



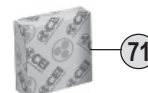
**(#)**  
**Synchro Rebuilt Kit**  
**4th / 3rd**  
**Fig. 13/14/27/28/29/30**



**Main Shaft**



**(@)**  
**Synchro Rebuilt Kit**  
**1st / 2nd**  
**Fig. 13/14/37/38/39/40**



**For**  
**16S150 (Only DAF Version)**  
**16S220**

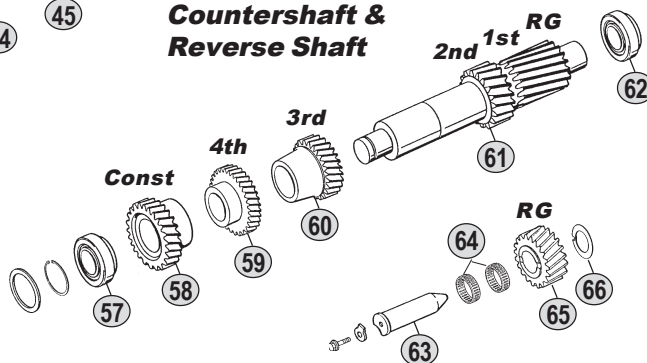
**Springs & Slide Kits**

**x 3**  
**x 3**  
**Kit**  
**67**

**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	DAF no.					16S150 (1313)	16S220 (1312)			
49	117.294	1313 304 038	69573	Bush	1			●				
49		1312 304 008	1250342	Bush	1		A		●			
49	117.310	1312 304 084	1227011	Bush D.85x96x72	1		BC		●			
50	145.508	1313 304 039	69575	Gear 1st Speed 44 T	1		B	●				
50	145.528	1313 304 070	1235376	Gear 1st Speed	1		C	●				
50		1312 304 077	1250340	Gear 1st Speed 34 T	1		A		●			
50	145.509	1312 304 086	1227014	Gear 1st Speed 44 T	1		B		●			
50	145.510	1312 304 085	1227013	Gear 1st Speed 47 T	1		C		●			
51	109.177	1313 304 037	69576	Engaging Ring	1			●				
51		1312 304 037	1250345	Engaging Ring	1		A		●			
51	109.181	1312 304 083	1227015	Engaging Ring	1		BC		●			
52	117.293	1315 304 132	1381158	Bush	1			●				
52		1312 304 011	1250346	Bush	1		A		●			
52	117.311	1316 304 133	1386223	Bush D.80x90x50	1		BC		●			
53	137.162	0750 115 324	69578	Roller Cage D.90x98x41	1			●				
53		0735 321 103	1250347	Roller Cage D.77x85x50	1		A		●			
53	137.140	0750 115 326	1227017	Roller Cage D.90x98x50	1		BC		●			
54	147.137	1313 304 042	69580	Reverse Gear 39 T	1		B	●				
54	147.147	1313 304 041	1235377	Reverse Gear 38 T	1		C	●				
54		1312 304 078	1250349	Reverse Gear 39 T	1		A		●			
54	147.141	1312 304 088	1227020	Reverse Gear 39 T	1		B		●			
54	147.139	1312 304 087	1227019	Reverse Gear 38 T	1		C		●			
55	130.309	0750 117 677	1333686	Bearing D.80x130x36	1			●				
55		0750 117 233	1250348	Bearing D.65x140x36,5	1		A		●			
55	130.304	0750 117 678	1330399	Bearing D.80x140x36,50	1		BC		●			
56	188.209	1312 304 150	1246838	Oil Tube	1			●	●			
57	130.242	0750 117 010	692181	Bearing D.50,80x100x35	1			●				
57	130.308	0750 117 009	691357	Bearing D.49,2x103,1x43,6	1				●			
58	146.475	1313 303 004	69565	Constant Gear 37 T	1		B	●				
58	146.443	1296 303 037	1235373	Constant Gear 39 T	1		C	●				
58		1312 303 003	1250337	Constant Gear 34 T	1		A		●			
58	146.411	1312 303 006	1212199	Constant Gear 37 T	1		B		●			
58	146.412	1312 303 005	1212198	Constant Gear 39 T	1		C		●			
59	146.414	1313 303 003	69566	Gear 4th Speed 39 T	1		B	●				
59	146.444	1296 303 036	1235374	Gear 4th Speed 37 T	1		C	●				
59		1312 303 014	1250338	Gear 4th Speed 31 T	1		A		●			
59	146.417	1312 303 017	1227000	Gear 4th Speed 39 T	1		B		●			
59	146.418	1312 303 016	1212200	Gear 4th Speed 37 T	1		C		●			
60	146.420	1313 303 002	69564	Gear 3rd Speed 28 T	1		B	●				
60	146.445	1296 303 035	1235372	Gear 3rd Speed 26 T	1		C	●				
60		1312 303 036		Gear 3rd Speed 36 T	1		A		●			
60	146.423	1312 303 020	1212196	Gear 3rd Speed 28 T	1		B		●			
60	146.424	1312 303 021	1212197	Gear 3rd Speed 26 T	1		C		●			
61	105.106	1313 303 010	69563	Countershaft 19-23 T	1		B	●				
61	105.113	1313 303 011	1235371	Countershaft 17-20 T	1		C	●				

## Notes

- (1) Only for input Shaft 1313221004  
 (2) 16S220 Special Version - Ratio 10,14-0,72. For this version to use :  
 4th Speed - Synchro Cone 1312304027 / 3rd Speed Synchro - Cone 1312304080  
 (3) 16S150 Gearboxes fitted on DAF Trucks use alternatively the version with single cone (fig.37 to 40)  
 and the version with double cone (fig.41-47). **DO NOT MIX** the two different version.  
 (#) Latest Synchro generation. **DO NOT MIX** the two different version. To update the previous one use  
 the synchro rebuilt kit fig. 70  
 (®) Latest Synchro generation. **DO NOT MIX** the two different version. To update the previous one use  
 the synchro rebuilt kit fig. 71

## Date

03 / 2006

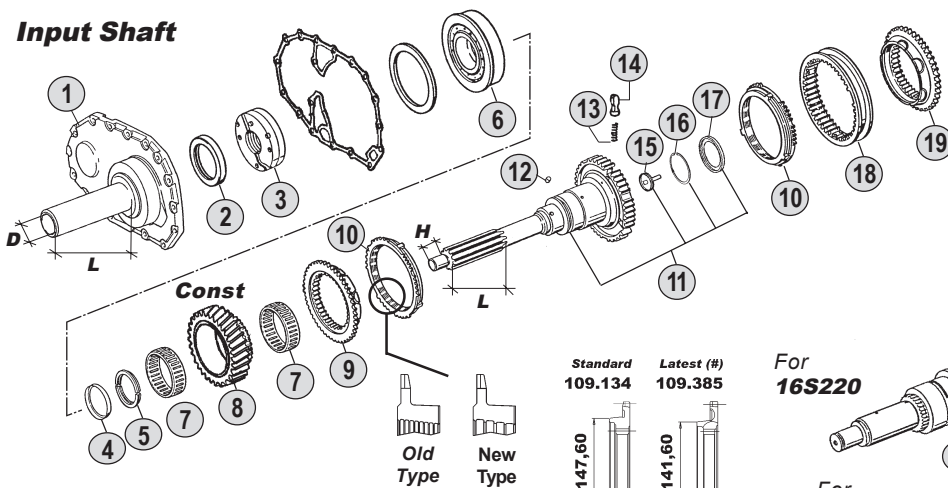
## Table

021 / A

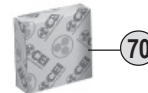
Suitable To : **ZF**

**16S150 - 16S220**

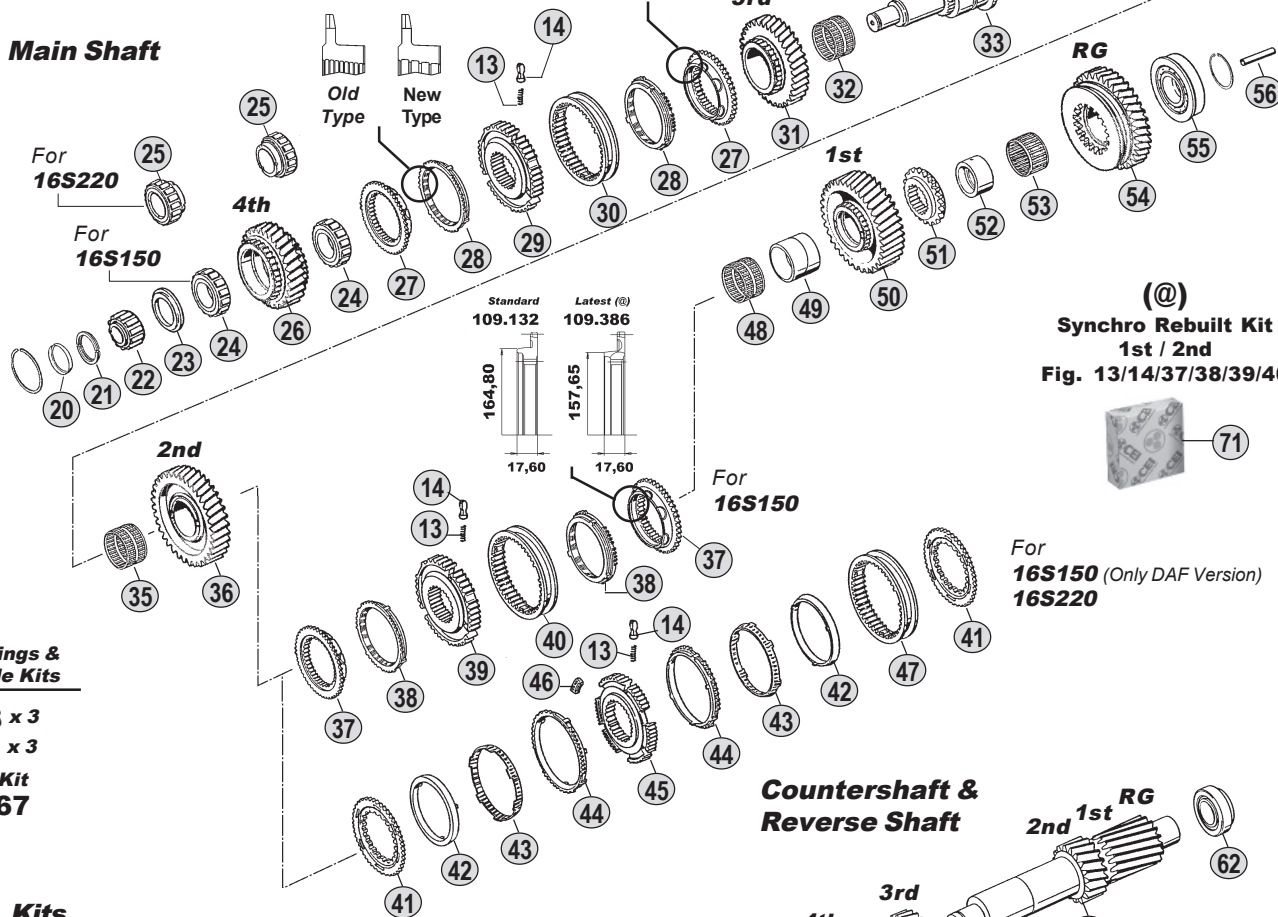
**Input Shaft**



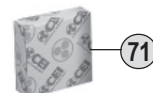
**(#)**  
**Synchro Rebuilt Kit**  
**4th / 3rd**  
**Fig. 13/14/27/28/29/30**



**Main Shaft**



**(@)**  
**Synchro Rebuilt Kit**  
**1st / 2nd**  
**Fig. 13/14/37/38/39/40**



**For**  
**16S150 (Only DAF Version)**  
**16S220**

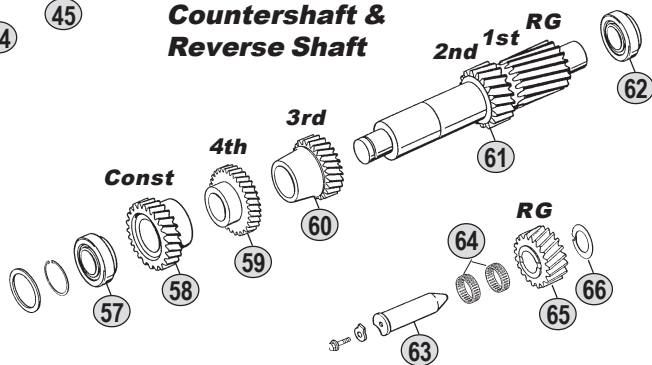
**Springs & Slide Kits**

**x 3**  
**x 3**  
**Kit**  
**67**

**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

16S150 (1313)  
16S220 (1312)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	DAF no.					16S150 (1313)	16S220 (1312)			
61		1312 303 037	1250335	Countershaft 20-24 T	1		A	●				
61	105.107	1312 303 009	1212188	Countershaft 19-23 T	1		B	●				
61	105.108	1312 303 008	1212187	Countershaft 17-20 T	1		C	●				
62	130.307	0750 117 011	689905	Bearing D.50,8x104,7x39,6	1			●				
62	130.308	0750 117 009	691357	Bearing D.49,2x103,1x43,6	1			●				
63	107.108	1295 305 056	692068	Reverse Gear Pin	1			●	●			
64	137.007	0750 115 011	584385	Needle Cage D.45x53x21	2			●				
64	137.154	0750 115 255	1212180	Needle Cage D.45x53x25	2				●			
65	147.132	1313 305 002	69553	Reverse Gear 21 T	1		B	●				
65	147.148	1313 305 001	1235369	Reverse Gear 24 T	1		C	●				
65		1312 305 003	1250332	Reverse Gear 21 T	1		A		●			
65	147.135	1297 305 012	1212179	Reverse Gear 21 T	1		B		●			
65	147.134	1297 305 011	1212178	Reverse Gear 24 T	1		C		●			
66	169.234	0730 150 064	584383	Thrust Washer	1			●	●			
67	198.843	CEI 198843		Spring Slide Set	1			●	●			
68		1312 298 902	1350896	Oil Seal Kit	1			●	●			
69	198.427	1295 298 915	1303044	Gasket Kit	1			●	●			
70	298.021	1315 298 061		Synchro kit 4th/3rd Speed	1		(#)	●	●			
71	298.020	1315 298 060		Synchro kit 1st/2nd Speed	1		(@)	●				

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## Notes

- (1) Only for input Shaft 1313221004  
 (2) 16S220 Special Version - Ratio 10,14-0,72. For this version to use :  
 4th Speed - Synchro Cone 1312304027 / 3rd Speed Synchro - Cone 1312304080  
 (3) 16S150 Gearboxes fitted on DAF Trucks use alternatively the version with single cone (fig.37 to 40)  
 and the version with double cone (fig.41-47). **DO NO MIX** the two different version.  
 (#) Latest Synchro generation. **DO NO MIX** the two different version. To update the previous one use  
 the synchro rebuilt kit fig. 70  
 (@) Latest Synchro generation. **DO NO MIX** the two different version. To update the previous one use  
 the synchro rebuilt kit fig. 71

Date

03 / 2006

Table

021 / A

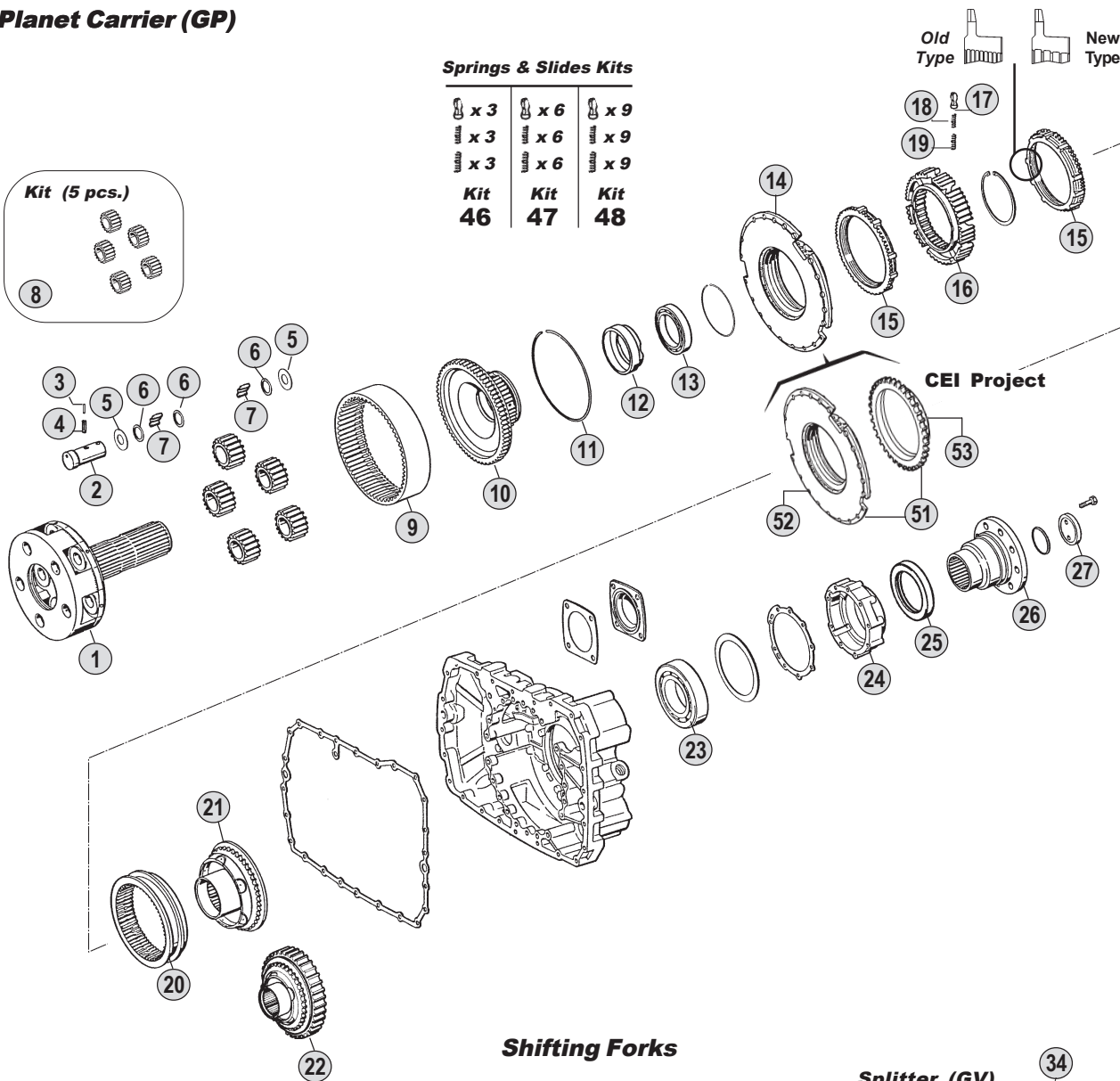
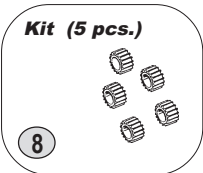
Suitable To : **ZF**

**16S150 - 16S220**

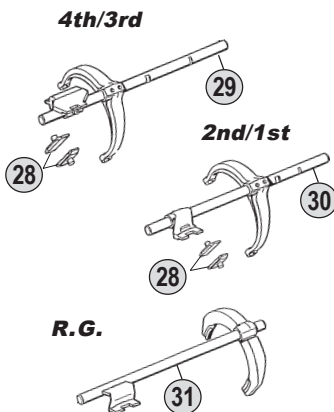
**Planet Carrier (GP)**

**Springs & Slides Kits**

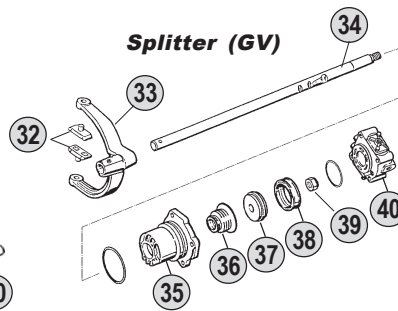
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>



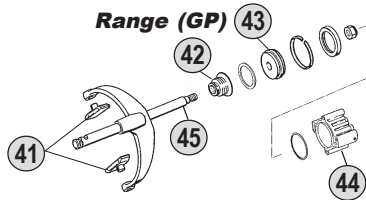
**Shifting Forks**



**Splitter (GV)**



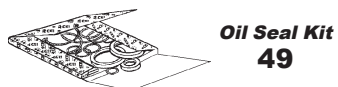
**Range (GP)**



**Kits**



**Gasket Kit 50**



**Oil Seal Kit 49**

**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	DAF no.					16S150 (1313)	16S220 (1312)			
1	190.393	1296 232 002	69079	Planetary Carrier	1			●				
1		1312 232 016		Planetary Carrier	1		A		●			
1	190.392	1316 232 006	1227031	Planetary Carrier	1		BC		●			
2	107.164	1296 332 005	69082	Planet Shaft	5			●				
2	107.163	1297 332 109	691407	Planet Shaft	5		A		●			
2	107.165	1312 332 026	1227034	Planet Shaft	5		BC		●			
3	160.195	0631 329 167	1344438	Lock Pin D.3x26	5			●	●			
4	160.194	0631 329 051	1344439	Lock Pin D.5x26	5			●	●			
5	169.759	0501 308 981	69078	Thrust Washer	10			●				
5	169.753	0501 306 212	691327	Thrust Washer D.29x64x1,5	10		A		●			
5	169.759	0501 308 981	69078	Thrust Washer	10		BC		●			
6	169.744	0730 107 168	69077	Spacer Ring	15			●				
6	169.410	0730 103 846	692246	Spacer Ring D.29x39x1,00	15		A		●			
6	169.744	0730 107 168	69077	Spacer Ring	15		BC		●			
7	171.046	0735 470 164	69081	Roller D.10x15	140			●				
7	171.062	0750 119 116	1284246	Roller D.10x16,8	120		A		●			
7	171.062	0750 119 116	1284246	Roller D.10x16,8	140		BC		●			
8	198.800	1313 232 003	69096	Planetary Gear Set (5 pcs)	1			●				
8	198.803	1297 232 023	66390	Planetary Gear Set (5 pcs)	1		A		●			
8	198.801	1312 232 014	1227032	Planetary Gear Set (5 pcs)	1		BC		●			
9	123.208	1295 332 086	69091	Crown Gear 86 T	1			●				
9	123.217	1297 332 080	66393	Crown Gear 83 T	1		A		●			
9	123.208	1295 332 086	69091	Crown Gear 86 T	1		BC		●			
10	150.133	1313 332 020	69083	Flange Gear 86 T	1			●				
10		1297 332 108		Flange Gear 83 T	1		A		●			
10	150.134	1297 332 120	1227567	Flange Gear 86 T	1		BC		●			
11	111.198	0730 505 056	691340	Locking Wire	1			●				
11	111.129	0730 505 055	692259	Locking Wire	1		A		●			
11	111.198	0730 505 056	691340	Locking Wire	1		BC		●			
12		1297 332 002	1300625	Ring	1			●				
13	130.310	0750 116 165	69395	Bearing D.80x110x16	1			●				
13	130.311	0635 338 035	1227592	Bearing D.100x125x13	1				●			
14	198.358	1296 233 006	689812	Synchronizer Cone	1			●	●			
15	119.085	1296 333 022	1303708	Synchronizer Ring	2	Old Type		●	●			
15	119.172	1296 333 045	1354113	Synchronizer Ring	2	New Type		●	●			
16	157.182	1313 333 001	69909	Synchronizer Hub	1			●				
16	157.183	1297 333 115	1227600	Synchronizer Hub	1				●			
17	160.116	1240 304 278	326962	Pressure Piece	9			●	●			
18	156.036	0732 040 386	326964	Inner Spring De.3x34	9			●	●			
19	156.037	0732 040 385	326963	Outer Spring De.6x34	9			●	●			
20	154.098	1296 333 023	689814	Sliding Sleeve	1			●	●			
21	198.374	1313 233 001	691378	Synchronizer Cone (38 Spl.)	1			●				
21	198.790	1297 233 056	1228000	Synchronizer Cone (41 Spl.)	1				●			
22		1297 333 118	1235589	Synchronizer Cone	1	With Retarder		●				
22		1312 333 014	1268672	Synchronizer Cone	1	With Retarder		●				

## Notes

- (4) Only Pneumatic Version  
 (5) To be coupled Together  
 (6) To be coupled Together

## Date

03 / 2006

## Table

021 / B

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Suitable To : **ZF**

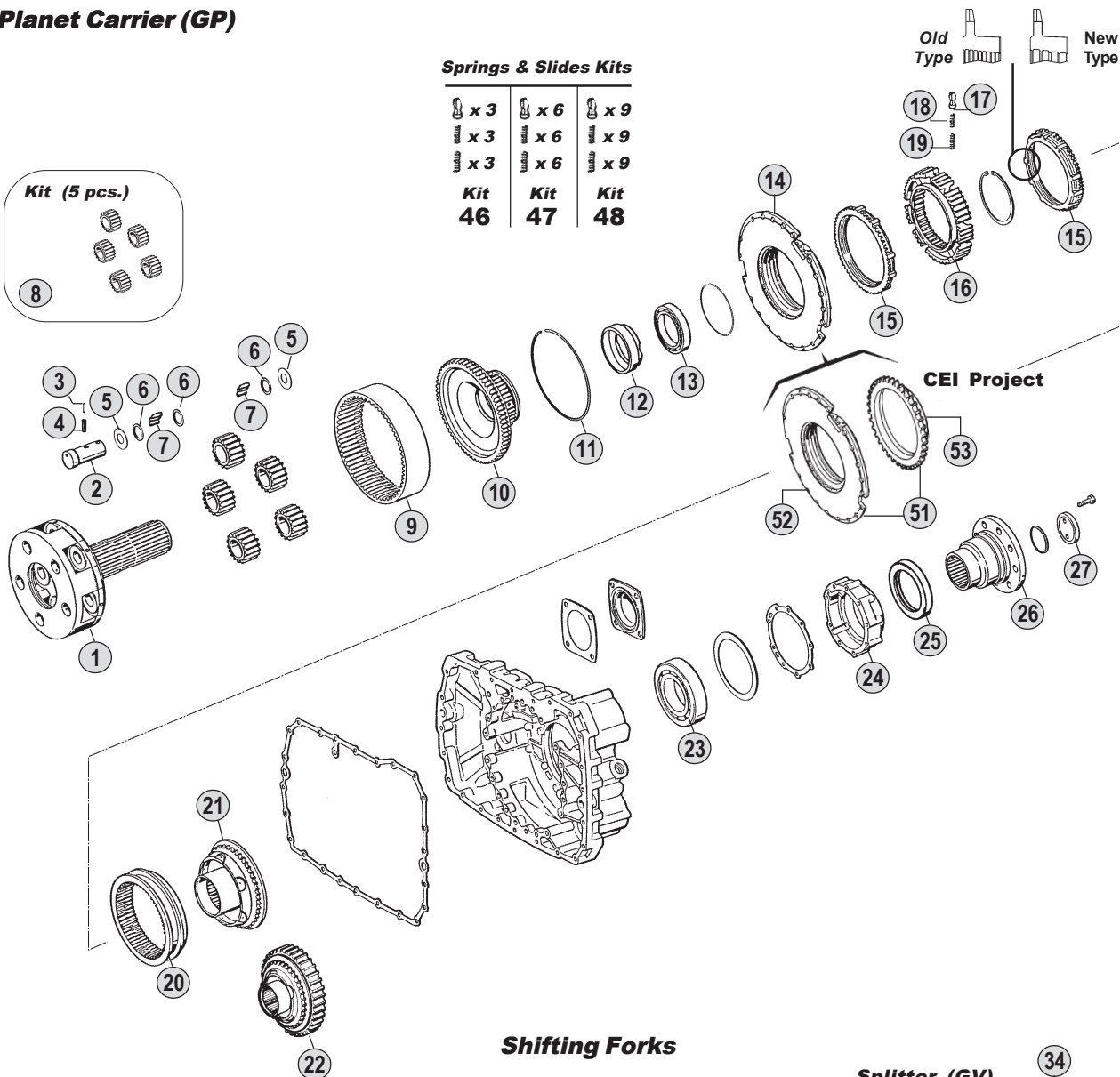
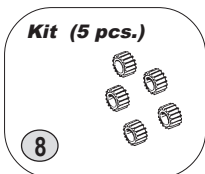
**16S150 - 16S220**

**Planet Carrier (GP)**

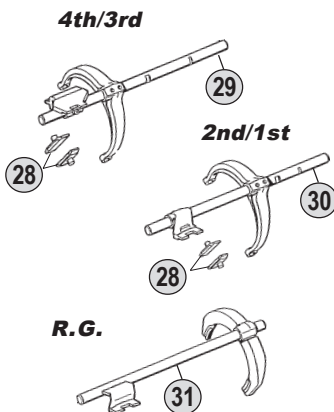
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

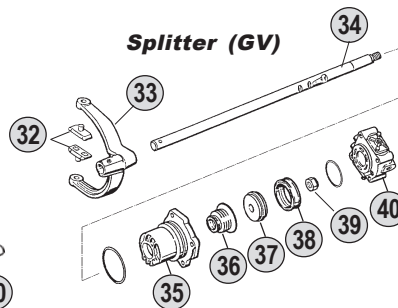
Old Type New Type



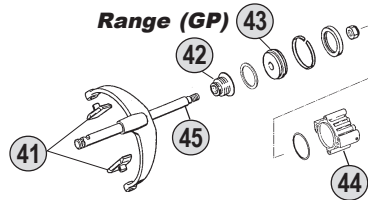
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.					DAF no.	16S150 (1313)	16S220 (1312)				
23	130.245	0750 116 002	692184	Bearing D.90x160x30	1		●	●					
24	128.098	1315 301 220	691805	Cover	1		●	●					
25		0750 111 341	1304242	Oil Seal 105x130x12	1		●	●					
26		1313 338 002	1228127	Output Flange	1	D.180-4 H.	●						
26		1313 338 011		Output Flange	1	D.204-4 H.	●						
26		1297 333 110	1227595	Output Flange	1	D.180-10 H.		●					
27	188.077	1295 332 051	696097	Stop Washer	1		●						
27		1312 332 028	1227597	Stop Washer	1			●					
28	141.163	1297 306 120	66379	Slide	2		●	●					
29		1313 206 002	69595	Fork	1		●						
29		1313 206 005	1235380	Fork	1		●						
29		1313 206 011		Fork	1	(4)	●						
29		1312 206 025		Fork	1			●					
29		1312 206 026	1227028	Fork	1			●					
29		1312 206 045		Fork	1	(4)		●					
30		1313 206 001	69594	Fork	1		●						
30		1313 206 004	1235379	Fork	1		●						
30		1313 206 031		Fork	1	(4)	●						
30		1312 206 013		Fork	1			●					
30		1312 206 017	1227027	Fork	1			●					
30		1312 206 043		Fork	1	(4)		●					
31		1313 206 015	69596	Fork	1		●						
31		1313 206 016	1235381	Fork	1		●						
31		1313 206 026		Fork	1	(4)	●						
31		1312 206 027		Fork	1			●					
31		1312 206 028	1227029	Fork	1			●					
31		1312 206 033	1250356	Fork	1	(4)		●					
32	141.163	1297 306 120	66379	Slide	2		●	●					
33		1313 312 002	689936	Fork	1		●	●					
34		1312 312 002	69598	Rod	1		●						
34		1312 312 001	1227030	Rod	1			●					
35	132.046	1296 312 042	692130	Cylinder	1		●	●					
36	139.331	0750 112 034	692237	Cap Collar D.25x38x14,2	1		●	●					
37		1312 312 003	1296903	Piston	1		●	●					
37		1312 312 015		Piston	1	(4)	●	●					
38		0750 112 089	66388	Ring 53x63x16,2	1		●	●					
38		0750 112 048	1235597	Ring 53x63x5	1	(4)	●	●					
39		0737 006 095	1291087	Nut	1		●	●					
40		0750 132 032	67061	Cylinder	1		●	●					
40		0750 132 033	692239	Cylinder	1		●	●					
41	141.085	1296 334 004	692175	Bronze Slide	2		●	●					
42	139.331	0750 112 034	692237	Cap Collar D.25x38x14,2	1		●	●					
43	189.422	1296 334 039	699798	Piston	1	(5)	●	●					
43		1297 334 056	1235359	Piston	1	(6)	●	●					
44	132.047	1295 334 075	68348	Cylinder	1	(5)	●	●					

## Notes

- (4) Only Pneumatic Version  
(5) To be coupled Together  
(6) To be coupled Together

## Date

03 / 2006

## Table

021 / B

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Suitable To : **ZF**

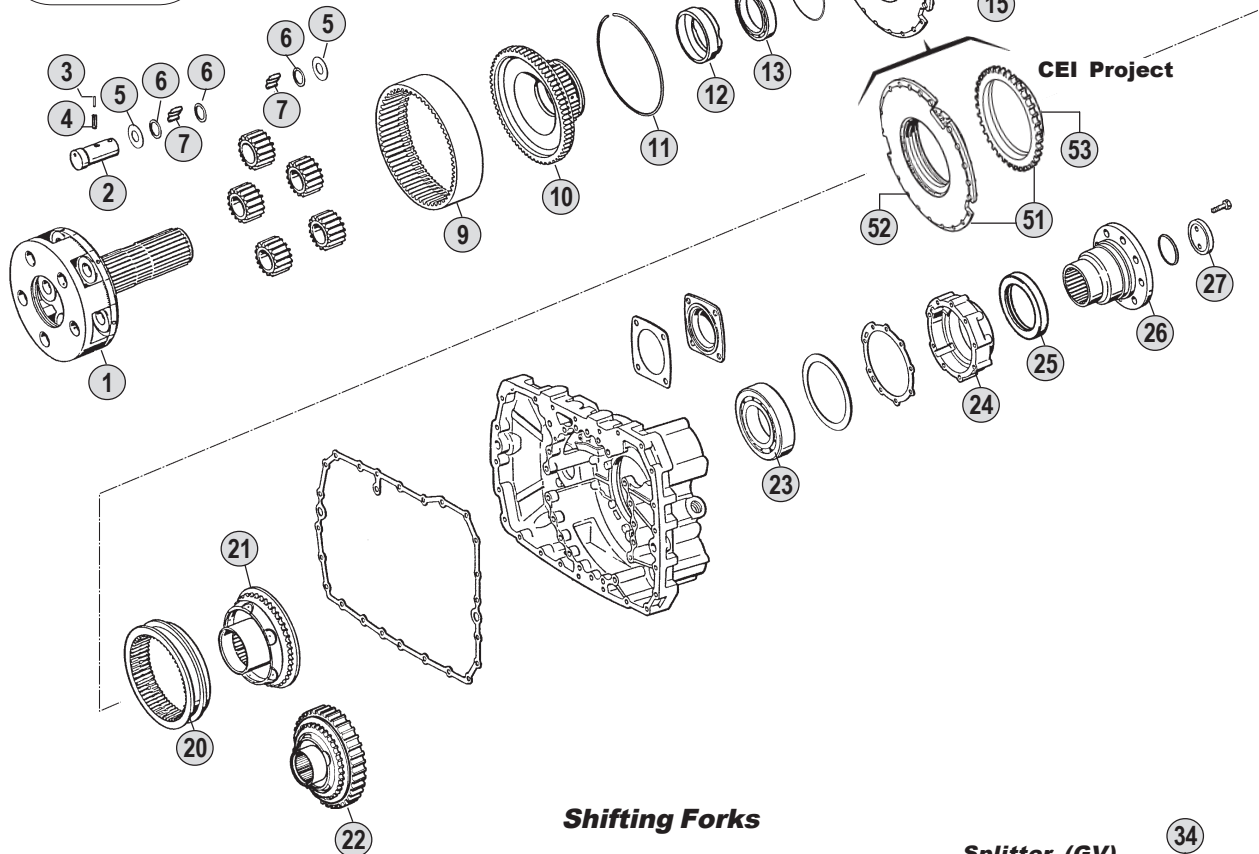
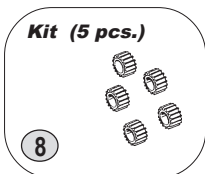
**16S150 - 16S220**

**Planet Carrier (GP)**

**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

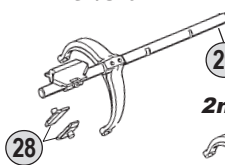
Old Type New Type



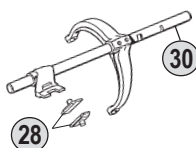
**CEI Project**

**Shifting Forks**

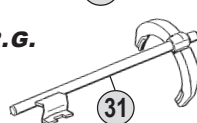
4th/3rd



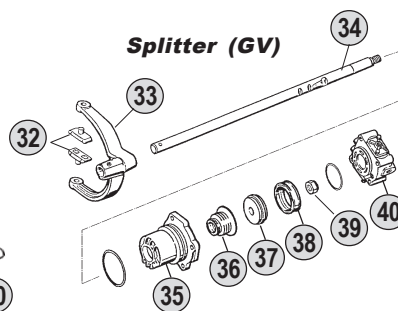
2nd/1st



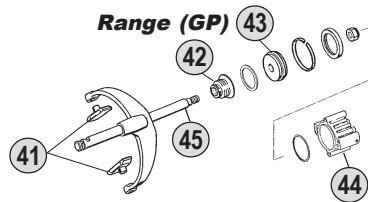
R.G.



**Splitter (GV)**



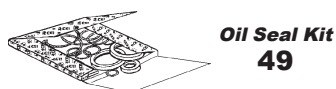
**Range (GP)**



**Kits**



**Gasket Kit 50**



**Oil Seal Kit 49**

**Ratios**

<b>16S150</b>	A:--	B: 13,80 - 0,84	C: 16,47 - 1,00
<b>16S220</b>	A:10,14-0,72	B: 13,80 - 0,84	C: 16,47 - 1,00

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suitable to :

**Z.F.****EcoSplit III****From 16S151 to 16S221****Planetary Gear with STRAIGHT TEETH****Application**

	16S151 (1315)	16S221 (1316)		
<b>MERCEDES</b>				
<b>M.A.N.</b>				
<b>IVECO</b>				
<b>R.V.I.</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**Ratios**

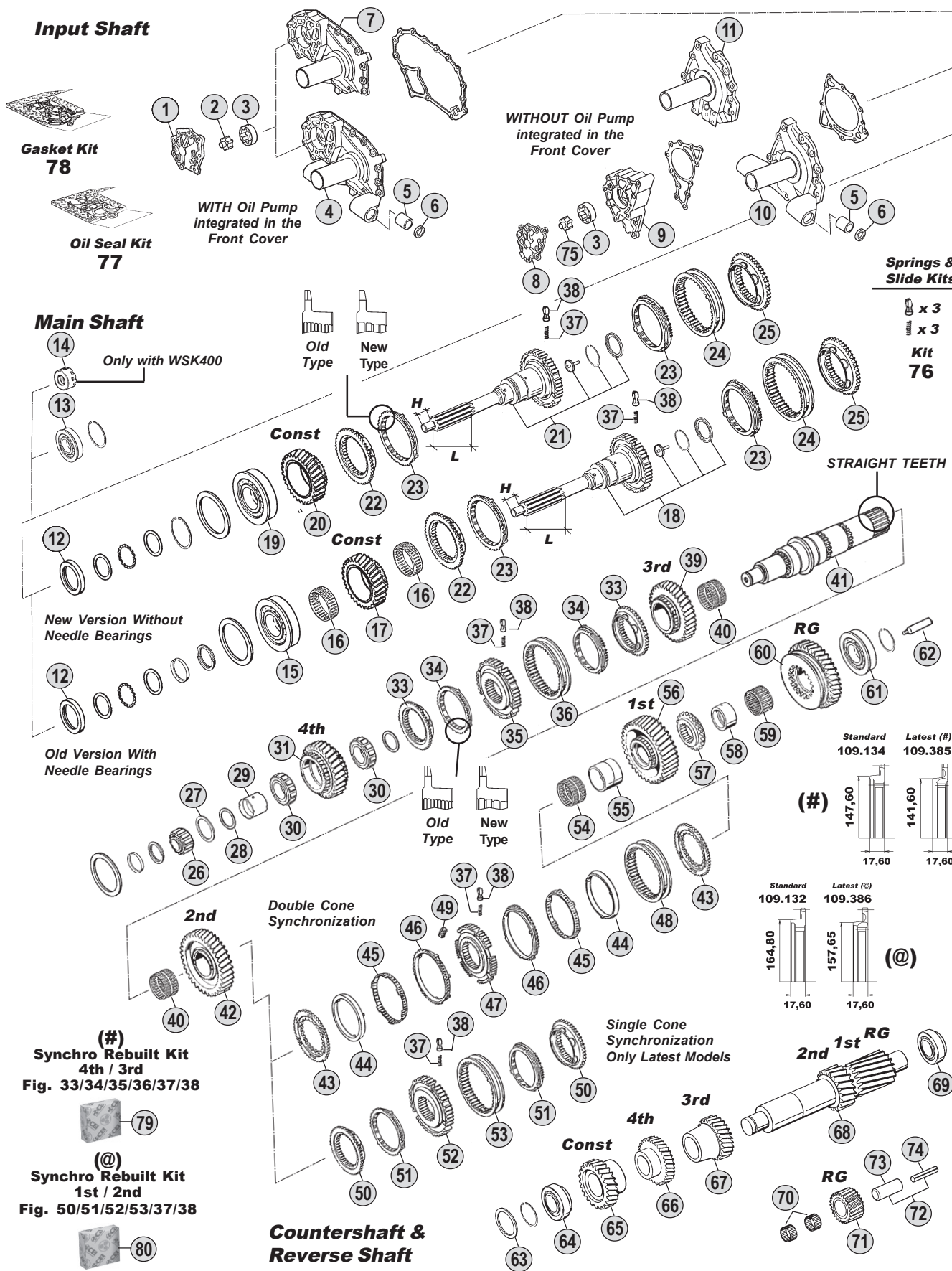
	R.13,80-0,84	R.13,85-0,84	R.13,86-0,84	R.16,47-1,00	R.16,53-1,00
	A	B	C	D	E
<b>16S151</b>					
<b>16S221</b>					

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**ECO III**  
From 16S151  
To 16S221

Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -





Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	DAF no.					16S151 (1315)	16S221 (1316)					
1		1315 302 013		Cover	1			●	●					
2		1315 202 014	1290961	Rotor	1			●	●					
3		1315 303 027	1290962	Oil Pump Housing	1			●	●					
4		1315 302 057		Front Cover	1			●	●					
5		0730 260 398		Bush	4			●	●					
6		0501 312 738		Oil Seal 30x37x4	4			●	●					
7		1315 302 045		Front Cover	1			●	●					
7		1315 302 047	1290959	Front Cover	1			●	●					
8		1315 302 120	1326337	Cover	1			●	●					
9		1315 302 121	1326911	Housing	1			●	●					
10		1315 202 055		Front Cover	1			●	●					
10		1315 202 058		Front Cover	1			●	●					
10		1315 202 061		Front Cover	1			●	●					
10		1315 202 065		Front Cover	1			●	●					
10		1315 202 060		Front Cover	1	With WSK400		●	●					
11		1315 302 075	1295188	Front Cover	1			●	●					
11		1315 302 136		Front Cover	1			●	●					
12		0734 310 386	1360734	Oil Seal 55x75x8	1			●	●					
12		0734 310 104	1296692	Oil Seal 52x68x8	1	(1)		●	●					
12		0734 319 514	1342789	Oil Seal 52x72x8	1	(2)		●	●					
13		0635 450 098	69369	Bearing 52x90x33	1	(2)		●	●					
14		4130 309 063		Disk	1	(1)		●	●					
15	<b>130.306</b>	0750 117 431	1212182	Bearing D.75x150x30,50	1	(3-4-5)		●	●					
16	<b>137.133</b>	0735 321 437	1342736	Needle Cage D.93x101x25	2	(3)		●						
16	<b>137.148</b>	0750 115 310	69560	Needle Cage D.93x101x25	2	(4)		●						
16	<b>137.134</b>	0735 321 438	1330140	Needle Cage D.93x101x32,50	2	(5)			●					
17	<b>145.524</b>	1315 302 008	1291070	Constant Gear 34 T	1	(3)	B	●						
17	<b>145.451</b>	1315 302 007	1291071	Constant Gear 30 T	1	(4)	DE	●						
17	<b>145.472</b>	1316 302 001	1295186	Constant Gear 30 T	1	(5)	D		●					
18	<b>190.309</b>	1315 202 022	1296999	Input Shaft	1	L=125 H=32		●						
18	<b>190.296</b>	1315 202 012		Input Shaft	1			●						
18	<b>190.297</b>	1316 202 005		Input Shaft	1				●					
19	<b>130.518</b>	0750 117 732	1344264	Bearing D.85x150x30,50	1			●	●					
20	<b>145.513</b>	1315 302 173	1344263	Constant Gear 34 T	1		A	●						
20	<b>145.556</b>	1315 302 158		Constant Gear 35 T	1		C	●						
20	<b>145.553</b>	1315 302 157	1344262	Constant Gear 30 T	1		D	●						
20	<b>145.487</b>	1316 302 065	1344616	Constant Gear 34 T	1		A		●					
20	<b>145.554</b>	1316 302 067	1394364	Constant Gear 35 T	1		C		●					
20	<b>145.483</b>	1316 302 066	1369642	Constant Gear 30 T	1		D		●					
21	<b>190.304</b>	1315 202 037	1373772	Input Shaft	1	L=125 H=31,5		●						
21	<b>190.315</b>	1315 202 040		Input Shaft	1	L=102 H=32		●						
21		1315 202 048		Input Shaft	1	With WSK400		●						
21	<b>190.317</b>	1315 221 002	1344258	Input Shaft	1	NMV221 (Clutch PTO)		●						
21	<b>190.303</b>	1316 202 025	1369129	Input Shaft	1	L=134 H=32			●					
21	<b>190.300</b>	1316 202 026		Input Shaft	1				●					

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model **WITH** integrated Oil Pump  
 (10) For model **WITHOUT** integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc. Fig. 74 (\*) New Models only. **DO NO MIX** Single Cone S. with Double Cone S.  
 (14) **Latest** Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (15) **Latest** Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

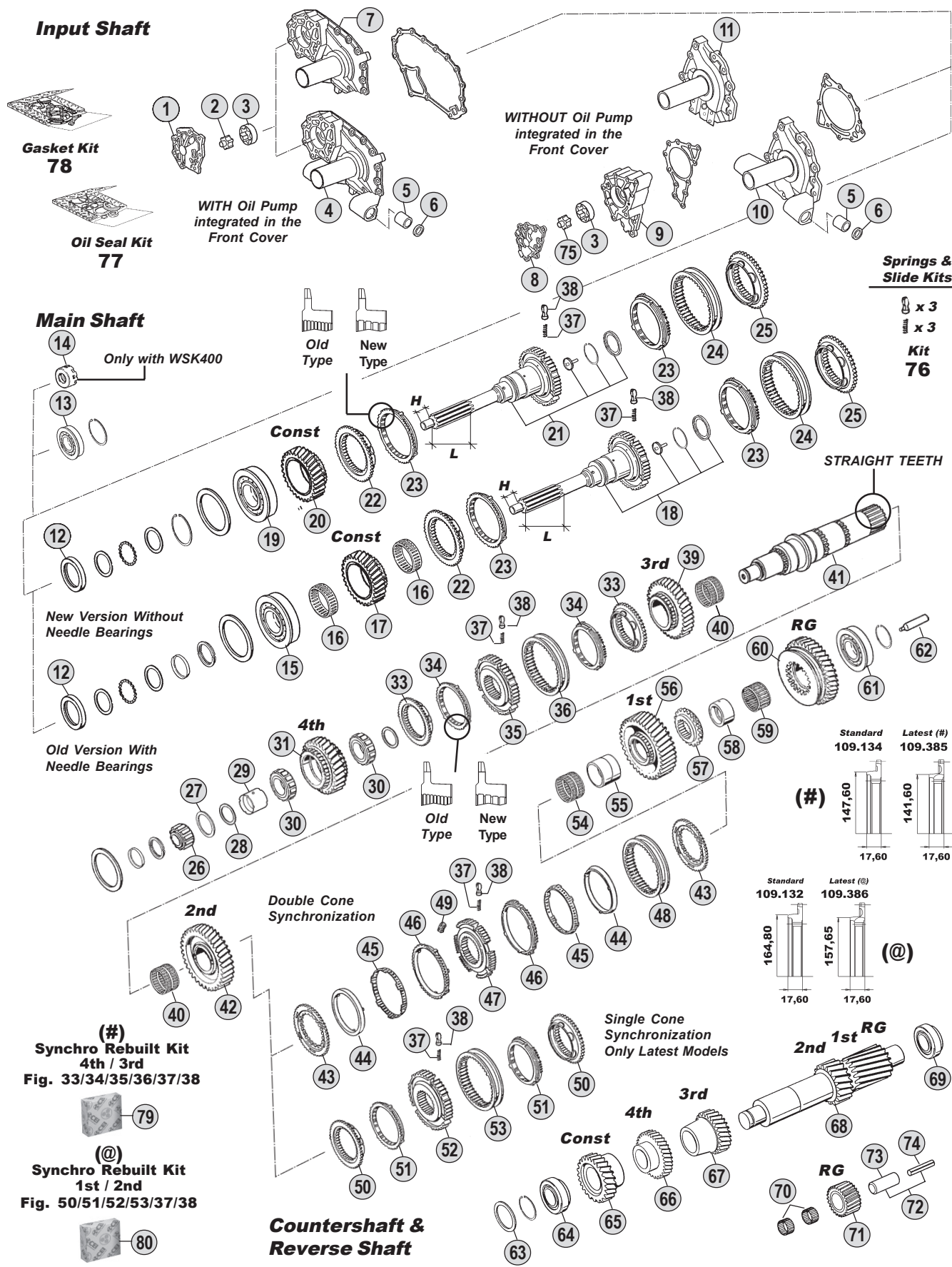
03 / 2006

## Table

022 / A

Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	DAF no.									
21	190.310	1316 202 033		Input Shaft	1	L=63 H=46,5 / WSK400		●				
21		1316 202 038		Input Shaft	1			●				
21		1316 221 017	1344615	Input Shaft	1	NMV221 (Clutch PTO)		●				
22	109.134	1312 304 027	69584	Synchronizer Cone	1			●	●			
23	119.119	1297 304 402	66373	Synchronizer Ring	2	Old Type		●	●			
23	119.167	1297 304 484	1342731	Synchronizer Ring	2	New Type		●	●			
24	154.135	1310 304 202	1377181	Sliding Sleeve	1			●	●			
25	109.133	1312 304 056	69561	Synchronizer Cone	1			●	●			
26	137.150	0750 117 232	69589	Roller Cage D.42x40,30	1			●	●			
27		1315 304 048	1339813	Ring	1	S.8,00 mm		●	●			
27		1315 304 043		Ring	1	S.7,50 mm		●	●			
28	169.776	0750 101 158	1392338	Thrust Washer 81,5x5	1	(6)		●	●			
29	117.321	0750 119 125		Bush 67x77x54,1	1	(6)		●				
29	117.320	0750 119 124	1394366	Bush D.67x77x66,10	1	(6)		●				
30	137.164	0750 115 534	1394631	Roller Cage 77x101x29	2	(6)		●				
30	137.156	0750 118 198	69583	Roller Cage D.67x101x32	2	(3-4)		●				
30	137.136	0750 115 531	1392339	Roller Cage D.77x101x29	2	(6)		●				
30		0750 118 258	1227024	Roller Cage D.67x101x38	2	(5)		●				
31	146.431	1315 304 017	1291081	Gear 4th Speed 30 T	1		AB	●				
31	146.320	1315 304 089	1350862	Gear 4th Speed 32 T	1		CDE	●				
31	145.729	1315 304 010	1290373	Gear 4th Speed	1	Old (7)	D	●				
31	146.410	1316 304 007	1300654	Gear 4th Speed 30 T	1		A	●				
31	146.401	1316 304 103	1330831	Gear 4th Speed 32 T	1		CD	●				
31	145.730	1316 304 006		Gear 4th Speed	1	Old (8)	D	●				
33	109.134	1312 304 027	69584	Synchronizer Cone	2			●	●			
33	109.385	1316 304 159		Synchronizer Cone	2		(#)	●	●			
34	119.119	1297 304 402	66373	Synchronizer Ring	2	Old Type		●	●			
34	119.167	1297 304 484	1342731	Synchronizer Ring	2	New Type		●	●			
34	119.217	1316 304 149		Synchronizer Ring	2		(#)	●	●			
35	157.180	1312 304 052	69585	Synchronizer Hub	1			●	●			
35	157.227	1316 304 162		Synchronizer Hub	1		(#)	●	●			
36	154.135	1310 304 202	1377181	Sliding Sleeve	1			●	●			
36	154.357	1315 304 135		Sliding Sleeve	1		(#)	●	●			
37	156.140	0732 040 409	171349	Spring D.6,50x23,50	3			●	●			
38	160.189	1297 304 436	68332	Pressure Piece	3			●	●			
39	145.514	1315 304 028	1291080	Gear 3rd Speed 32 T	1		AB	●				
39	145.456	1315 304 027	1290972	Gear 3rd Speed 34 T	1		CDE	●				
39	145.488	1316 304 009	1300653	Gear 3rd Speed 32 T	1		A	●				
39	145.473	1316 304 008	1295201	Gear 3rd Speed 34 T	1		CD	●				
40	137.137	0735 321 087	69568	Needle Cage D.92x100x53	2			●				
40	137.138	0750 115 303	1227002	Needle Cage D.92x100x63	2			●				
41	103.135	1315 304 130	1394573	Main Shaft	1		ACD	●				
41	103.127	1315 304 029		Main Shaft	1		BE	●				
41	103.128	1316 304 130	1394744	Main Shaft	1			●				
42	145.455	1315 304 026	1291077	Gear 2nd Speed 37 T	1		AB	●				

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model **WITH** integrated Oil Pump  
 (10) For model **WITHOUT** integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc fig. 74 (\*) New Models only. **DO NO MIX** Single Cone S. with Double Cone S.  
 (14) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (15) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

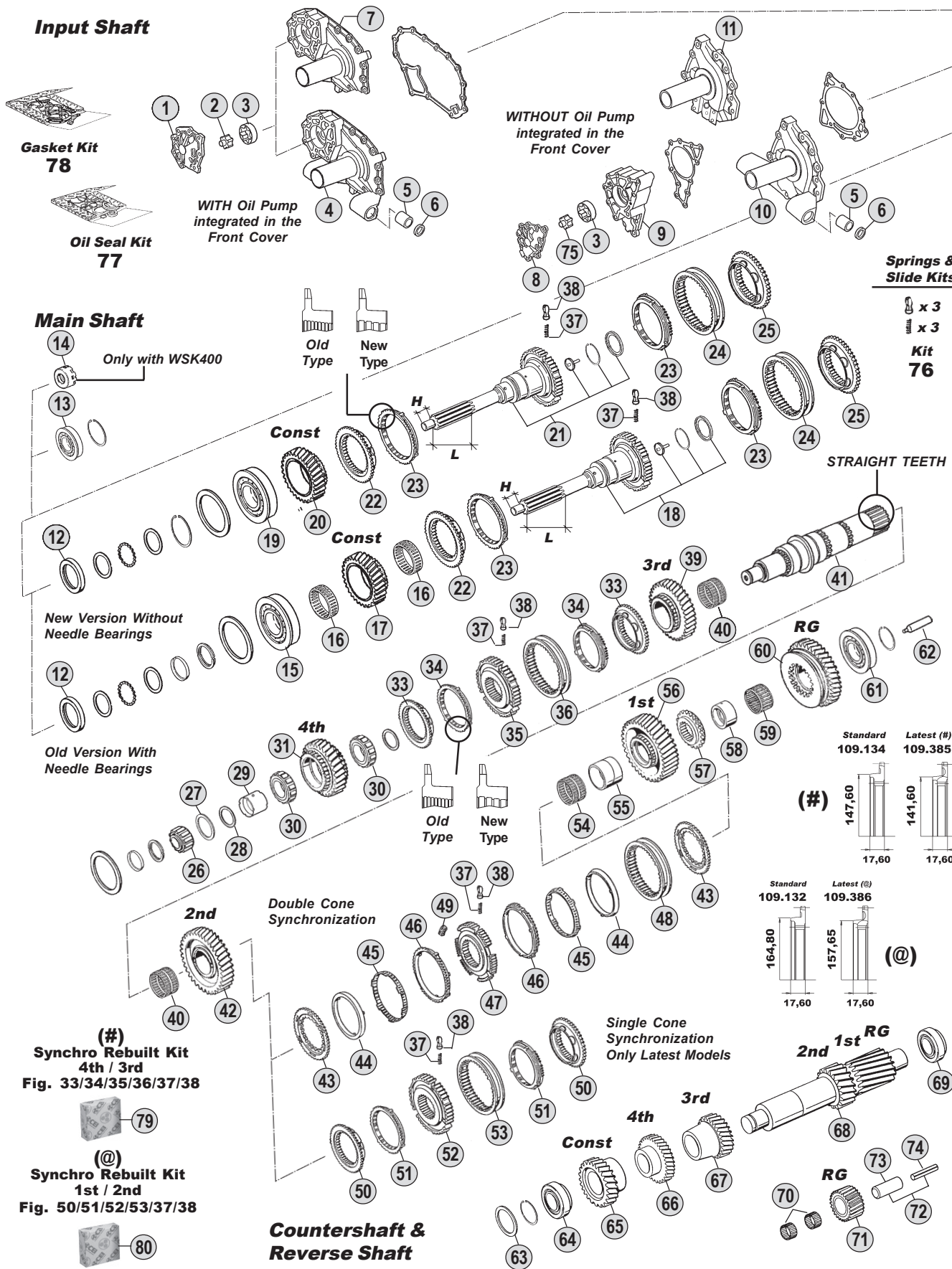
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## Table

022 / A

Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

16S151	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
16S221	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



## O.E.M. Reference

16S151 (1315)  
16S221 (1316)

Fig.	CEI no.	ZF no.	DAF no.	Description	Q.ty	Note	Ratio						
42	145.454	1315 304 025	1290968	Gear 2nd Speed 38 T	1		CDE	●					
42	145.515	1316 304 003	1300650	Gear 2nd Speed 37 T	1		A		●				
42	145.474	1316 304 002	1295197	Gear 2nd Speed 38 T	1		CD		●				
43	109.176	1312 304 106	1227005	Synchronizer Cone	2			●	●				
44	119.152	1268 304 424	1227006	Intermediate Ring	2			●	●				
45	119.153	1268 304 494	1377179	Intermediate Cone	2			●	●				
46	119.144	1268 304 525	1227008	Synchronizer Ring	2			●	●				
47	157.181	1312 304 158	1250147	Synchronizer Hub	1			●	●				
48	154.190	1310 304 175	1353770	Sliding Sleeve	1			●	●				
49	156.176	1312 304 159	1300312	Pad	3			●	●				
50	109.132	1313 304 009	69572	Synchronizer Cone	2	(*)		●	●				
50	109.386	1316 304 156		Synchronizer Cone	2		(@)	●	●				
51	119.122	1297 304 401	66365	Synchronizer Ring	2	Old Type (*)		●	●				
51	119.166	1297 304 485	1360740	Synchronizer Ring	2	New Type (*)		●	●				
51	119.218	1316 304 150		Synchronizer Ring	2		(@)	●	●				
52	157.189	1313 304 008	69570	Synchronizer Hub	1	(*)		●	●				
52	157.228	1316 304 163		Synchronizer Hub	1		(@)	●	●				
53	154.202	1316 304 078	1360725	Sliding Sleeve	1	(*)		●	●				
53	154.358	1315 304 136		Sliding Sleeve	1		(@)	●	●				
54	137.160	0750 115 325	69574	Needle Cage D.96x104x55	1			●					
54	137.151	0750 115 327	1227012	Needle Cage D.96x104x72	1				●				
55	117.294	1313 304 038	69573	Bush	1			●					
55	117.310	1312 304 084	1227011	Bush D.85x96x72	1				●				
56	145.453	1315 304 014	1291078	Gear 1st Speed 44 T	1		AB	●					
56	145.452	1315 304 004	1290969	Gear 1st Speed 47 T	1		CDE	●					
56	145.522	1316 304 013	1300651	Gear 1st Speed 44 T	1		A		●				
56	145.475	1316 304 010	1295198	Gear 1st Speed 47 T	1		CD		●				
57	109.144	1315 304 018	1290970	Engaging Ring	1			●					
57	109.163	1312 304 124	1295199	Engaging Ring	1				●				
58	117.293	1315 304 132	1381158	Bush	1			●					
58	117.311	1316 304 133	1386223	Bush D.80x90x50	1				●				
59	137.162	0750 115 324	69578	Roller Cage D.90x98x41	1			●					
59	137.140	0750 115 326	1227017	Roller Cage D.90x98x50	1				●				
60	147.124	1315 304 013	1291079	Reverse Gear 42 T	1		AB	●					
60	147.123	1315 304 006	1290971	Reverse Gear 44 T	1		CDE	●					
60	147.144	1316 304 015	1300652	Reverse Gear 42 T	1		A		●				
60	147.128	1316 304 012	1295200	Reverse Gear 44 T	1		CD		●				
61	130.309	0750 117 677	1333686	Bearing D.80x130x36	1			●					
61	130.304	0750 117 678	1330399	Bearing D.80x140x36,50	1				●				
62	188.209	1312 304 150	1246838	Oil Tube	1			●	●				
63		0730 102 099	140908	Washer	1	S.3,00 mm (9)		●					
63		0730 102 072	140928	Washer	1	S.2,00 mm (9)		●					
63		0730 106 917	1212189	Washer	1	S.3,00 mm (10)		●					
63		0730 101 471	1212193	Washer	1	S.2,00 mm (10)		●					
63		0730 106 917	1212189	Washer	1	S.3,00 mm		●					

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model WITH integrated Oil Pump  
 (10) For model WITHOUT integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc fig. 74 (\*) New Models only. **DO NO MIX** Single Cone S. with Double Cone S.  
 (14) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (15) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

03 / 2006

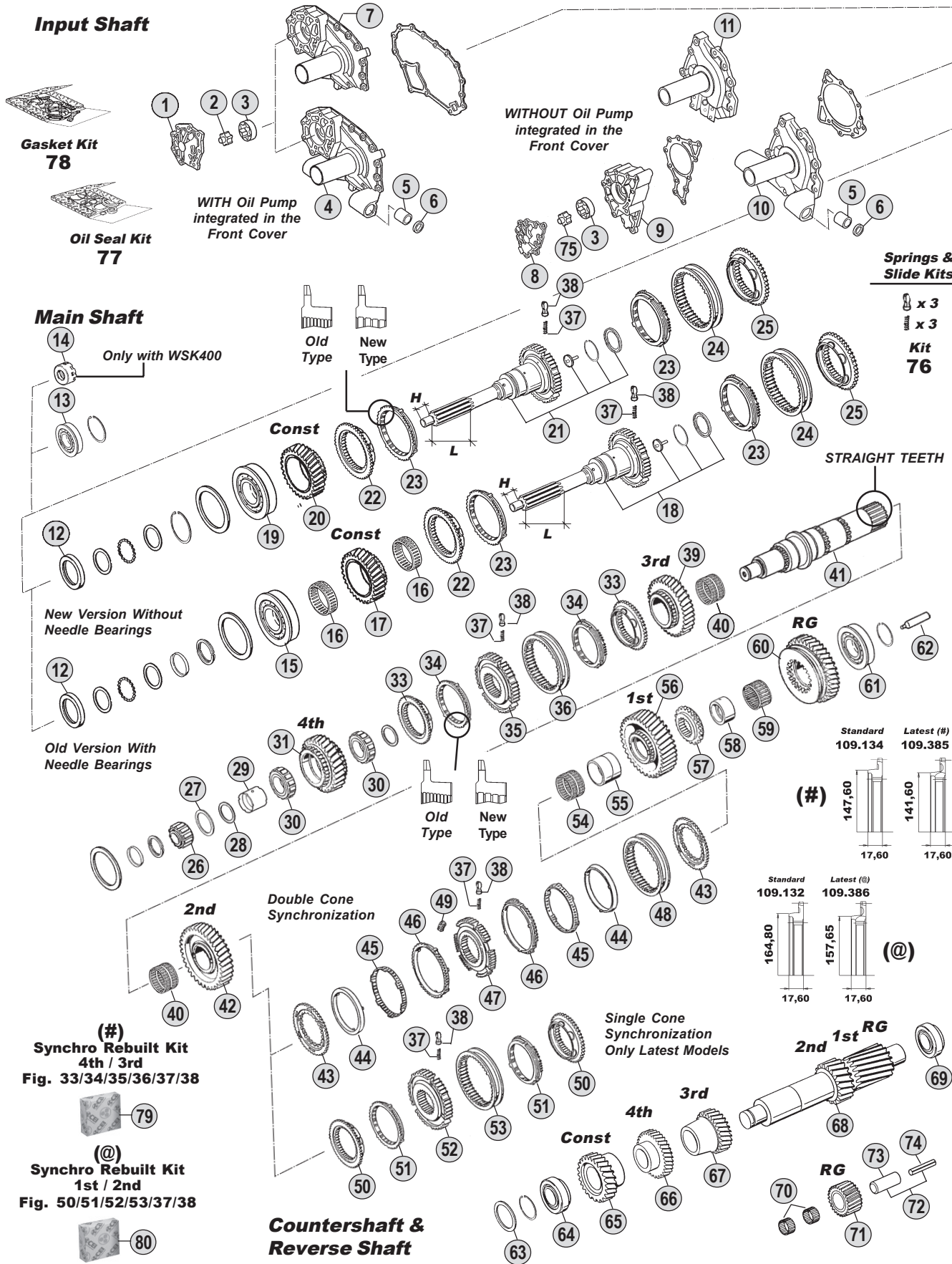
## Table

022 / A

ECO III  
From 16S151  
To 16S221

Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



## O.E.M. Reference

16S151 (1315)  
16S221 (1316)

Fig.	CEI no.	ZF no.	DAF no.	Description	Q.ty	Note	Ratio						
63		0730 101 471	1212193	Washer	1	S.2,00 mm		●					
64	130.242	0750 117 010	692181	Bearing D.50,80x100x35	1	(9)		●					
64	130.308	0750 117 009	691357	Bearing D.49,2x103,1x43,6	1	(10)		●					
64	130.308	0750 117 009	691357	Bearing D.49,2x103,1x43,6	1			●					
65	146.427	1315 303 052	1342737	Constant Gear 37 T	1		AB	●					
65	146.473	1315 303 051		Constant Gear 32 T	1		C	●					
65	146.367	1315 303 008	1291075	Constant Gear 39 T	1		DE	●					
65	146.407	1316 303 031	1300648	Constant Gear 37 T	1		A	●					
65	146.428	1316 303 002		Constant Gear 37 T	1	Old (11)	A	●					
65	146.469	1316 303 064	1394365	Constant Gear 32 T	1		C	●					
65	146.486	1316 303 030	1295191	Constant Gear 39 T	1		D	●					
65	146.388	1316 303 001		Constant Gear 39 T	1	Old (12)	D	●					
66	146.429	1315 303 046	1317303	Gear 4th Speed 39 T	1		AB	●					
66	146.474	1315 303 050	1350861	Gear 4th Speed 35 T	1		CDE	●					
66	146.389	1315 303 006	1290967	Gear 4th Speed 37 T	1	(7)	D	●					
66	146.408	1316 303 004	1300649	Gear 4th Speed 39 T	1		A	●					
66	146.426	1316 303 065	1360899	Gear 4th Speed 35 T	1		CD	●					
66	146.390	1316 303 003	1295192	Gear 4th Speed 37 T	1	(8)	D	●					
67	146.368	1315 303 010	1291073	Gear 3rd Speed 28 T	1		AB	●					
67	146.365	1315 303 004	1290965	Gear 3rd Speed 26 T	1		CDE	●					
67	146.409	1316 303 006	1300647	Gear 3rd Speed 28 T	1		A	●					
67	146.391	1316 303 005	1295190	Gear 3rd Speed 26 T	1		CD	●					
68	105.112	1315 303 048	1291072	Countershaft 19-23 T	1	(9)	AB	●					
68	105.095	1315 303 049	1290964	Countershaft 17-20 T	1	(9)	DE	●					
68	105.109	1315 303 041	1300691	Countershaft 19-23 T	1	(10)	A	●					
68	105.124	1315 303 042	1297001	Countershaft 17-20 T	1	(10)	CD	●					
68	105.103	1316 303 034	1300646	Countershaft 19-23 T	1		A	●					
68	105.110	1316 303 053		Countershaft 19-23 T	1	(11)	A	●					
68	105.100	1316 303 033	1295189	Countershaft 17-20 T	1		CD	●					
68	105.096	1316 303 052		Countershaft 17-20 T	1	(12)	D	●					
69	130.307	0750 117 011	689905	Bearing D.50,8x104,7x39,6	1			●					
69	130.308	0750 117 009	691357	Bearing D.49,2x103,1x43,6	1			●					
70	137.135	0750 115 366	1290947	Needle Cage D.45x57x21	2			●					
70	137.149	0750 115 369	1295179	Needle Cage D.45x57x25	2			●					
71	147.142	1315 305 005	1291007	Reverse Gear 20 T	1		AB	●					
71	147.126	1315 305 002	1290946	Reverse Gear 22 T	1		CDE	●					
71	147.143	1316 305 002	1295178	Reverse Gear 20 T	1		A	●					
71	147.127	1316 305 001	1295177	Reverse Gear 22 T	1		CD	●					
72		1315 201 054	1344257	Reverse Shaft	1	Old (13)	AB	●					
72		1315 201 053	1344256	Reverse Shaft	1	Old (13)	CDE	●					
72		1316 201 030	1295182	Reverse Shaft	1	Old (13)	A	●					
72	190.301	1316 201 029	1344227	Reverse Shaft	1	Old (13)	CD	●					
73	190.302	1315 305 009	1290948	Reverse Shaft	1	New		●	●				
74		0631 329 293	1291068	Pin	1	New	AB	●					
74		0631 329 294		Pin	1	New	CDE	●					

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033  
 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Only for Input S. 1315 202 022 - Old Version with Needle B.  
 (4) Only for Input S. 1315 202 012 - Old version with Needle B.  
 (5) Only for Input S. 1316 202 005 - Old version with Needle B.  
 (6) Do not use for Old version with Needle Bearings  
 (7) Old Version. Repl. By 1315 304 089+1315 303 050  
 (8) Old Version. Repl. By 1316 304 103+1316 303 065  
 (9) For model WITH integrated Oil Pump  
 (10) For model WITHOUT integrated Oil Pump  
 (11) Old Version. Use 1316 303 002 with 1316 303 053  
 (12) Old Version. Use 1316 303 001 with 1316 303 052  
 (13) Old Version. Repl. by 1 pc. Fig. 73 + 1 pc. Fig. 74 (\*) New Models only. DO NO MIX Single Cone S. with Double Cone S.  
 (14) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 79  
 (15) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 80

## Date

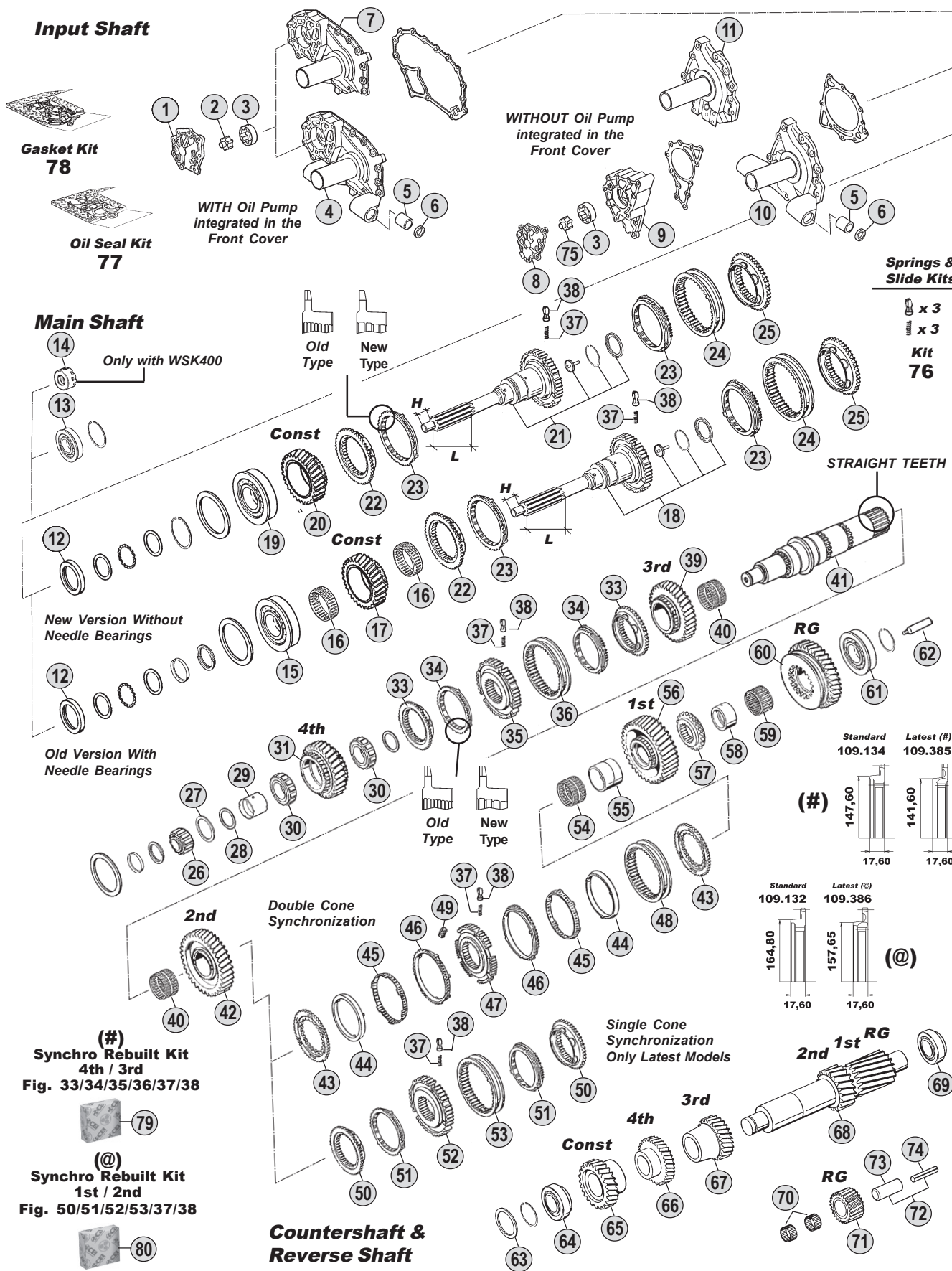
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## Table

022 / A

Suitable To : **ZF**

**16S151 - 16S221**



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**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



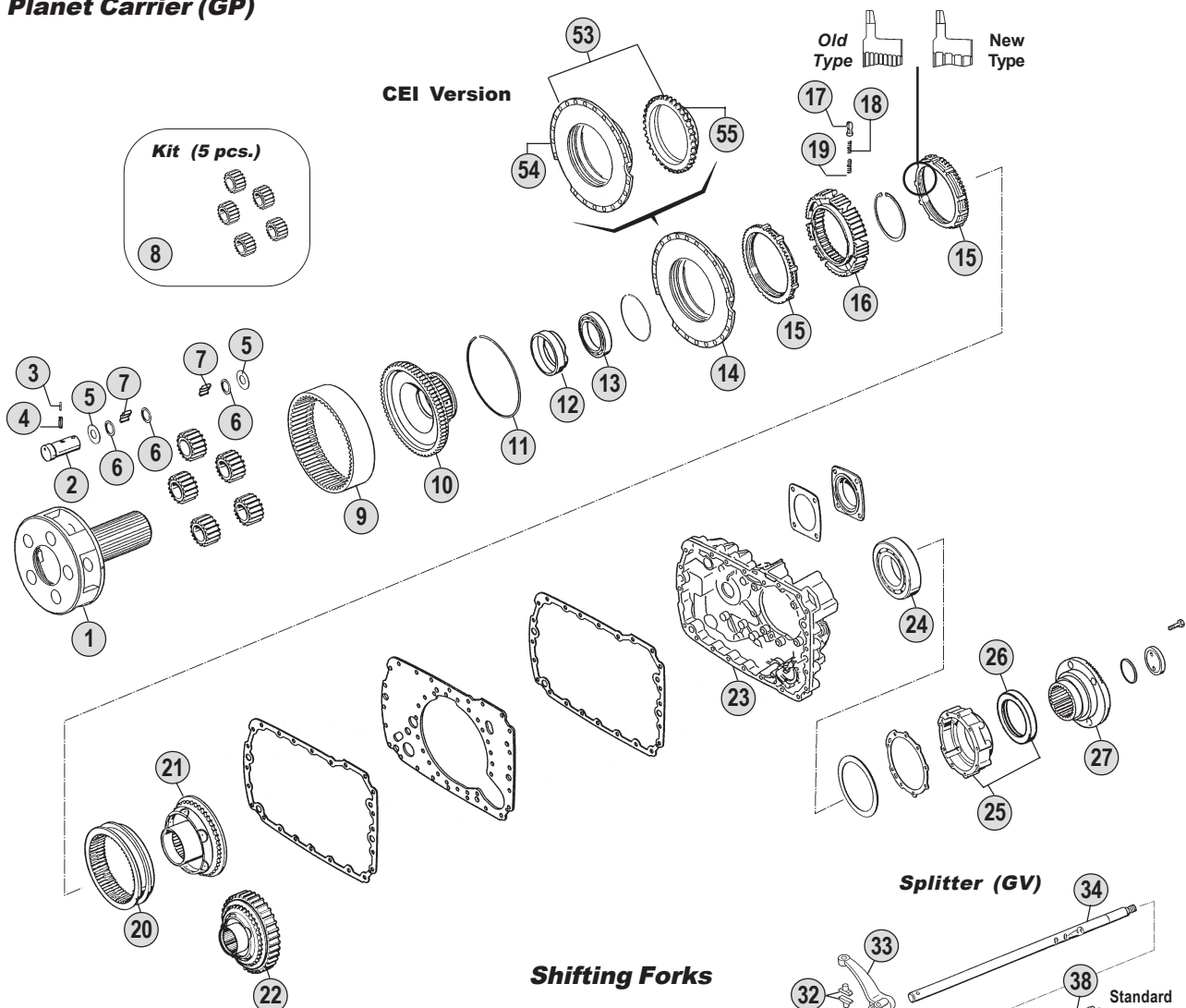




Suitable To : **ZF**

**16S151 - 16S221**

**Planet Carrier (GP)**



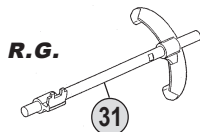
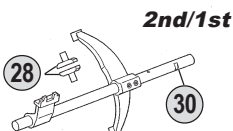
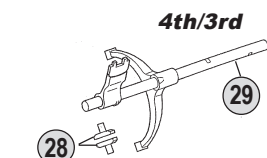
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 48</b>	<b>Kit 49</b>	<b>Kit 50</b>

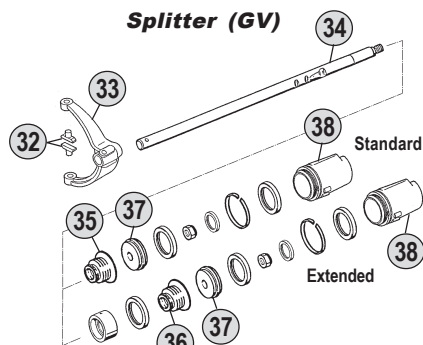
**Kits**



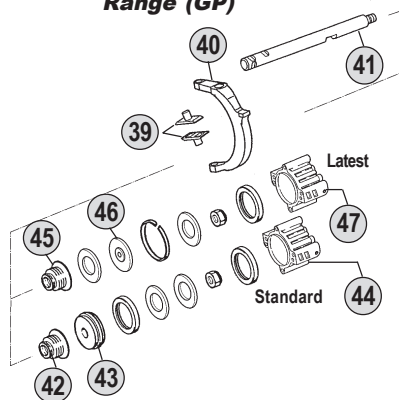
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



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Fig.	O.E.M. Reference			Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.	DAF no.					16S151 (1315)	16S221 (1316)			
1	190.393	1296 232 002	69079	Planetary Carrier	1			●				
1	190.392	1316 232 006	1227031	Planetary Carrier	1			●				
2	107.164	1296 332 005	69082	Planet Shaft	5			●				
2	107.165	1312 332 026	1227034	Planet Shaft	5			●				
3	160.195	0631 329 167	1344438	Lock Pin D.3x26	5			●	●			
4	160.194	0631 329 051	1344439	Lock Pin D.5x26	5			●	●			
5	169.759	0501 308 981	69078	Thrust Washer	10			●	●			
6	169.744	0730 107 168	69077	Spacer Ring	15			●	●			
7	171.046	0735 470 164	69081	Roller D.10x15	140			●				
7	171.062	0750 119 116	1284246	Roller D.10x16,8	140				●			
8	198.800	1313 232 003	69096	Planetary Gear Set (5 pcs)	1		ACD	●				
8	198.816	1315 232 001		Planetary Gear Set (5 pcs)	1		BE	●				
8	198.801	1312 232 014	1227032	Planetary Gear Set (5 pcs)	1				●			
9	123.208	1295 332 086	69091	Crown Gear 86 T	1		ACD	●				
9	123.221	1315 332 003		Crown Gear 90 T	1		BE	●				
9	123.208	1295 332 086	69091	Crown Gear 86 T	1				●			
10	150.133	1313 332 020	69083	Flange Gear 86 T	1		ACD	●				
10	150.140	1315 332 002		Flange Gear 90 T	1		BE	●				
10	150.134	1297 332 120	1227567	Flange Gear 86 T	1				●			
11	111.198	0730 505 056	691340	Locking Wire	1			●	●			
12		1297 332 002	1300625	Ring	1			●				
13	130.310	0750 116 165	69395	Bearing D.80x110x16	1			●				
13	130.311	0635 338 035	1227592	Bearing D.100x125x13	1				●			
14	298.017	1315 233 006	1307482	Synchronizer Cone	1			●	●			
15	119.085	1296 333 022	1303708	Synchronizer Ring	2	Old Type		●	●			
15	119.172	1296 333 045	1354113	Synchronizer Ring	2	New Type		●	●			
16	157.182	1313 333 001	69909	Synchronizer Hub	1			●				
16	157.183	1297 333 115	1227600	Synchronizer Hub	1				●			
17	160.116	1240 304 278	326962	Pressure Piece	9			●	●			
18	156.036	0732 040 386	326964	Inner Spring De.3x34	9			●	●			
19	156.037	0732 040 385	326963	Outer Spring De.6x34	9			●	●			
20	154.098	1296 333 023	689814	Sliding Sleeve	1			●	●			
21	198.374	1313 233 001	691378	Synchronizer Cone (38 Spl.)	1			●				
21	198.790	1297 233 056	1228000	Synchronizer Cone (41 Spl.)	1				●			
22	196.353	1315 233 023	1300629	Synchronizer Cone 59 T (38 Spl)	1	With Retarder		●				
22	196.352	1316 233 010	1297599	Synchronizer Cone 59 T (41 Spl)	1	With Retarder			●			
23		1315 301 117	1288926	Housing	1			●	●			
23	175.242	1315 301 223	1377421	Housing	1			●	●			
24	130.245	0750 116 002	692184	Bearing D.90x160x30	1			●	●			
25		1315 231 004		Cover	1			●	●			
26		0750 111 341	1304242	Oil Seal 105x130x12	1			●	●			
27		1315 338 002	1300626	Output Flange	1	D.180-4 H.		●				
27		1313 338 002	1228127	Output Flange	1	D.180-4 H.		●				
27		1313 338 011		Output Flange	1	D.204-4 H.		●				
27		1315 238 001		Output Flange	1	D.222-4 H.		●				

Notes

Date

03 / 2006

Table

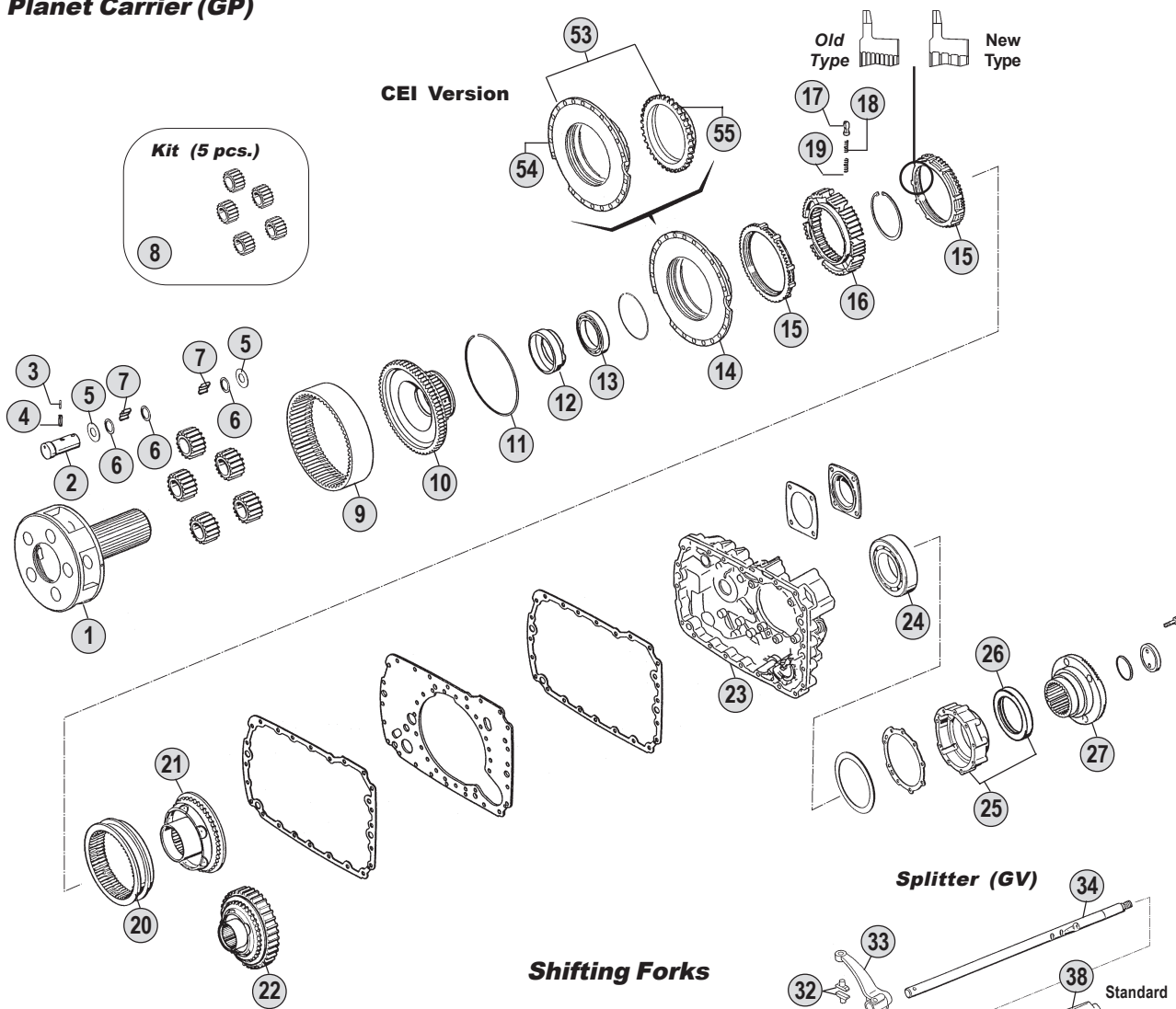
022 / B

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Suitable To : **ZF**

**16S151 - 16S221**

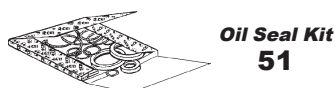
**Planet Carrier (GP)**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 48</b>	<b>Kit 49</b>	<b>Kit 50</b>

**Kits**



**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	DAF no.									
27		1297 333 110	1227595	Output Flange	1	D.180-4.H.		●				
27		1316 338 002	1297598	Output Flange	1	D.180-4.H.		●				
27		1312 333 018		Output Flange	1	D.200-4.H.		●				
27		1316 338 003		Output Flange	1	D.200-4.H.		●				
28	141.163	1297 306 120	66379	Slide	2	Old Type		●	●			
28	141.168	1316 306 015	1604637	Slide	2	New Type		●	●			
29		1315 206 013	1290975	Fork	1	Old Type		●				
29		1315 206 055		Fork	1	New Type		●				
29		1315 206 024		Fork	1	Old Type		●				
29		1315 206 056		Fork	1	New Type		●				
29		1316 206 018	1295207	Fork	1	Old Type			●			
29		1316 206 037		Fork	1	New Type			●			
29		1316 206 017		Fork	1	Old Type			●			
29		1316 206 038		Fork	1	New Type			●			
30		1315 206 046	1317301	Fork	1	Old Type		●				
30		1315 206 052		Fork	1	New Type		●				
30		1315 206 047		Fork	1	Old Type		●				
30		1315 206 053		Fork	1	New Type		●				
30		1316 206 025	1317309	Fork	1	Old Type			●			
30		1316 206 033		Fork	1	New Type			●			
30		1316 206 026		Fork	1	Old Type			●			
30		1316 206 034		Fork	1	New Type			●			
30		1316 206 027		Fork	1	Old Type			●			
30		1316 206 035		Fork	1	New Type			●			
31		1315 206 003		Fork	1			●				
31		1315 206 023	1290976	Fork	1			●				
31		1316 206 013	1295208	Fork	1				●			
31		1316 206 014		Fork	1				●			
32	141.163	1297 306 120	66379	Slide	2	Old Type		●	●			
32	141.168	1316 306 015	1604637	Slide	2	New Type		●	●			
33		1315 312 017	1291083	Fork	1	Old Type		●	●			
33		1315 312 074		Fork	1	New Type		●	●			
34		1315 312 049	1313722	Rod	1	Standard		●				
34		1315 312 022	1291082	Rod	1	Extended		●				
34		1316 312 016	1343551	Rod	1	Standard			●			
34		1316 312 008	1295231	Rod	1	Extended			●			
35		0750 112 131	1295232	Cap Collar D.25x40x15	1	Standard		●	●			
36	139.331	0750 112 034	692237	Cap Collar D.25x38x14,2	1	Extended		●	●			
37		1315 312 020	1291085	Piston	1			●	●			
38		1315 312 048	1317307	Cylinder	1			●				
38		1316 312 015	1317310	Cylinder	1				●			
39	141.085	1296 334 004	692175	Bronze Slide	2			●	●			
40		1315 334 039	1330407	Fork	1			●	●			
41		1315 334 058	1291001	Rod	1			●				
41		1316 334 010	1442292	Rod	1				●			

Notes

Date

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Table

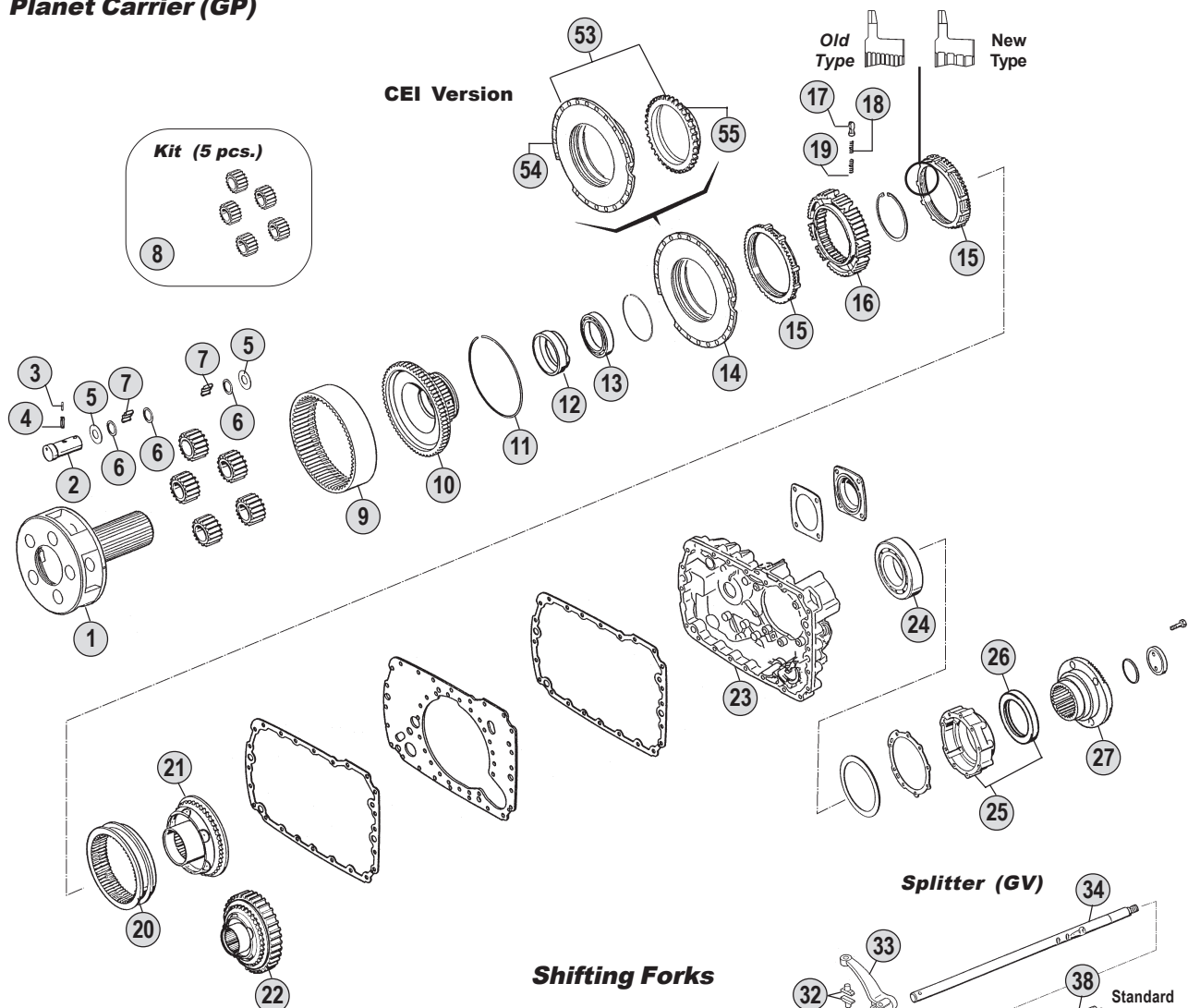
022 / B

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Suitable To : **ZF**

**16S151 - 16S221**

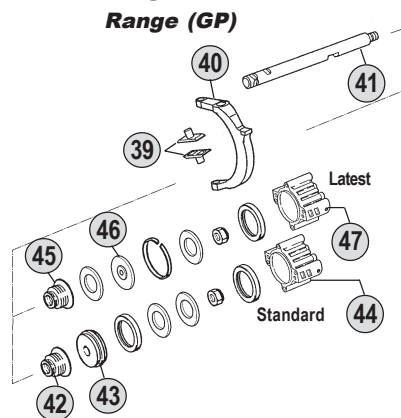
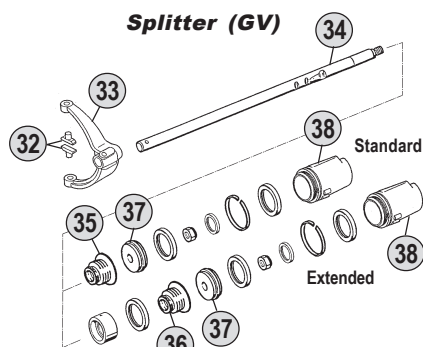
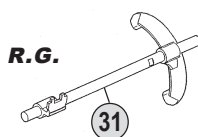
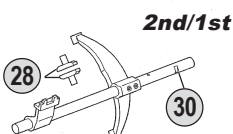
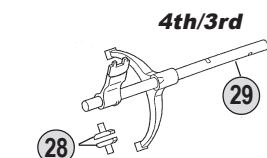
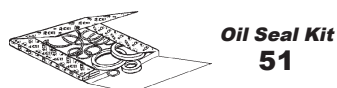
**Planet Carrier (GP)**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 48</b>	<b>Kit 49</b>	<b>Kit 50</b>

**Kits**



**Ratios**

<b>16S151</b>	A: 13,80-0,84	B: 13,85 - 0,84	C: 13,86 - 0,84	D: 16,47 - 1,00	E: 16,53-1,00
<b>16S221</b>	A: 13,80-0,84	B: --	C: 13,86 - 0,84	D: 16,47 - 1,00	E: -



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suitable to :

**Z.F.****EcoSplit III****From 16S151 to 16S251****Planetary Gear with HELICAL TEETH****Application**

	<b>16S151</b>	<b>16S181</b>	<b>16S221</b>	<b>16S251</b>
	(1315)	(1316)	(1316)	(1316)
<b>MERCEDES</b>				
<b>MAN</b>				
<b>IVECO</b>				
<b>RVI</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**Ratios**

	<b>R.13,74-0,84</b>	<b>R.13,80-0,84</b>	<b>R.16,41-1,00</b>		
	<b>A</b>	<b>B</b>	<b>C</b>		
<b>16S151</b>					
<b>16S181</b>					
<b>16S221</b>					
<b>16S251</b>					

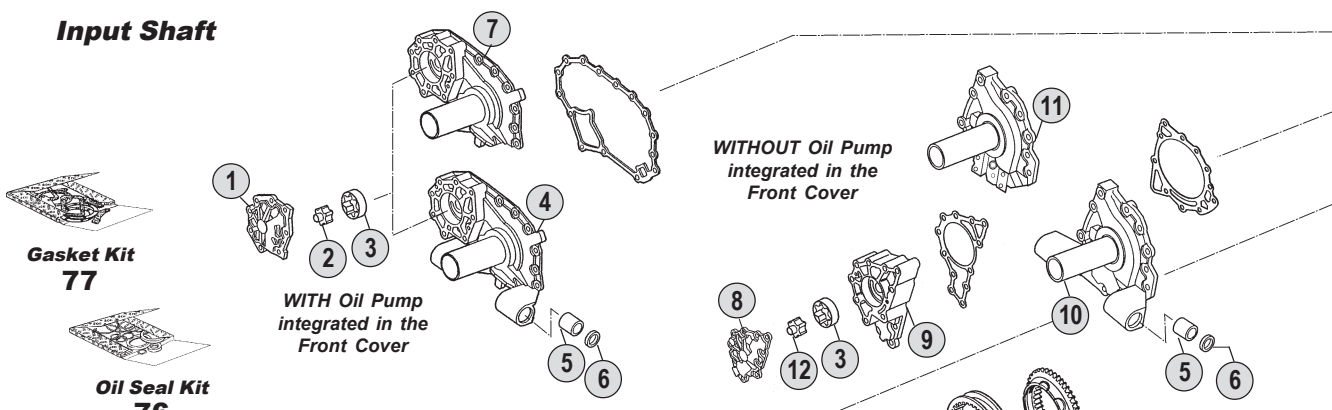
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**ECO III**  
From 16S151  
To 16S251

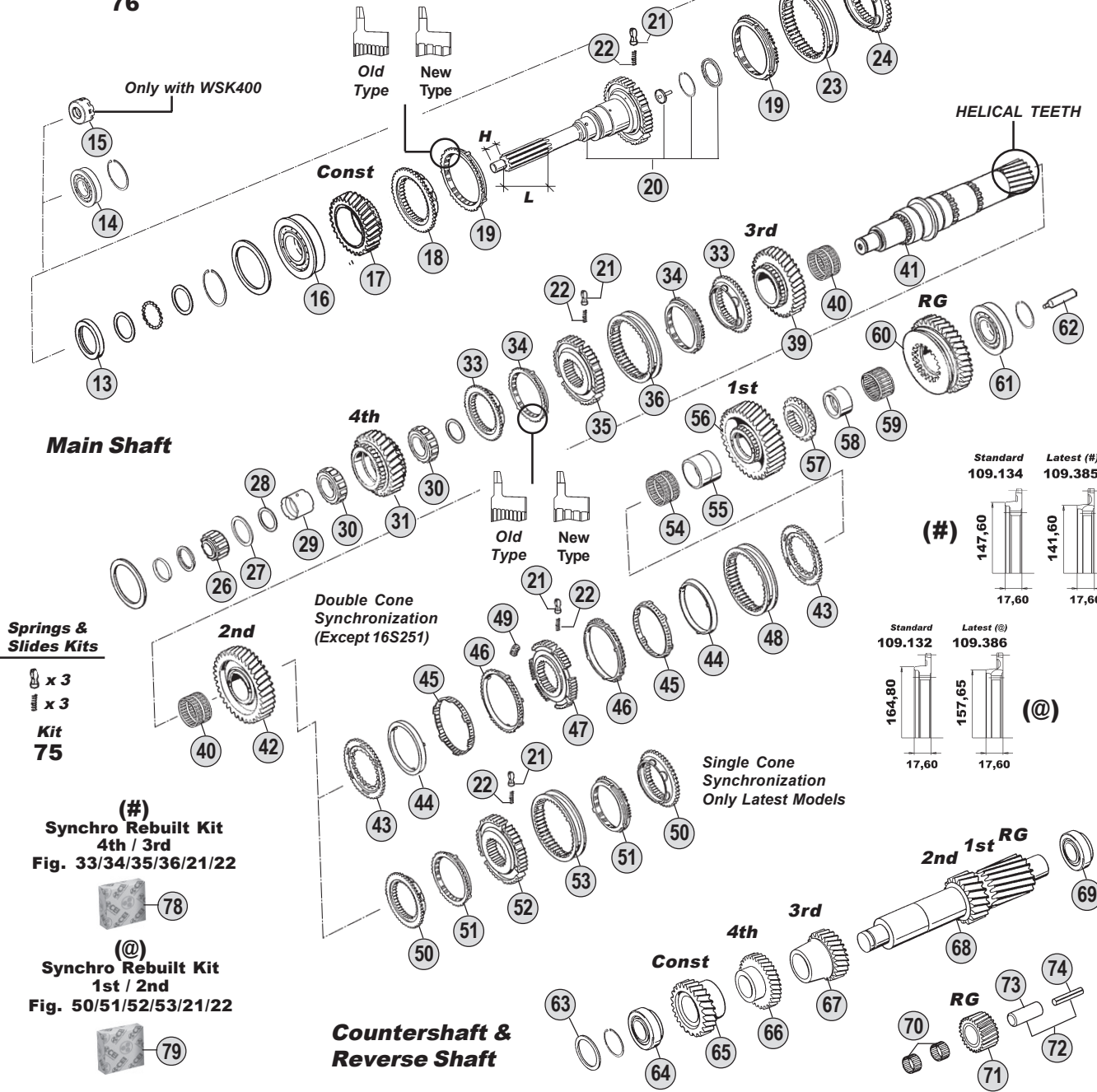
Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

**Input Shaft**



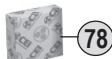
**Main Shaft**



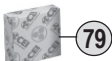
**Springs & Slides Kits**

x 3  
x 3  
**Kit 75**

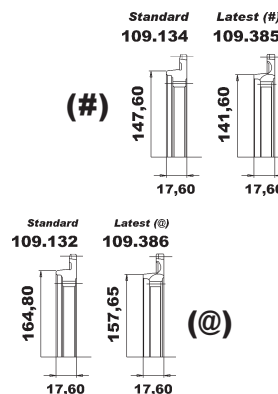
(#)  
**Synchro Rebuilt Kit 4th / 3rd**  
Fig. 33/34/35/36/21/22



(@)  
**Synchro Rebuilt Kit 1st / 2nd**  
Fig. 50/51/52/53/21/22



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S151</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S181</b>	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S221</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S251</b>	A: --	B: 13,80 - 0,84	C: --	D: --	E: --



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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	DAF no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)	
1		1315 302 013		Cover	1			●	●			
2		1315 202 014	1290961	Rotor	1			●	●			
3		1315 303 027	1290962	Oil Pump Housing	1			●	●	●	●	
4		1315 302 057		Front Cover	1			●		●		
5		0730 260 398		Bush	4			●	●	●	●	
6		0501 312 738		Oil Seal 30x37x4	4			●	●	●	●	
7		1315 302 045		Front Cover	1			●		●		
7		1315 302 047	1290959	Front Cover	1			●		●		
8		1315 302 120	1326337	Cover	1			●	●	●	●	
9		1315 302 121	1326911	Housing	1			●	●	●	●	
10		1315 202 055		Front Cover	1			●	●	●		
10		1315 202 058		Front Cover	1			●		●		
10		1315 202 061		Front Cover	1			●		●		
10		1315 202 065		Front Cover	1			●		●	●	
10		1315 202 060		Front Cover	1	With WSK400		●		●		
11		1315 302 075	1295188	Front Cover	1			●	●	●		
11		1315 302 136		Front Cover	1			●	●	●		
12		1314 202 039	1317298	Rotor	1			●	●	●	●	
13		0734 310 386	1360734	Oil Seal 55x75x8	1			●	●	●	●	
13		0734 310 104	1296692	Oil Seal 52x68x8	1	(1)		●		●		
13		0734 319 514	1342789	Oil Seal 52x72x8	1	(2)		●	●	●		
14		0635 450 098	69369	Bearing 52x90x33	1	(2)		●	●	●		
15		4130 309 063		Disk	1	(1)		●		●		
16	<b>130.518</b>	0750 117 732	1344264	Bearing D.85x150x30,50	1			●	●	●	●	
17	<b>145.513</b>	1315 302 173	1344263	Constant Gear 34 T	1		A	●				
17	<b>145.556</b>	1315 302 158		Constant Gear 35 T	1		B	●				
17	<b>145.553</b>	1315 302 157	1344262	Constant Gear 30 T	1		C	●				
17	<b>145.561</b>	1316 302 057	1340225	Constant gear 35 T	1		B		●			
17	<b>145.483</b>	1316 302 066	1369642	Constant Gear 30 T	1		C		●			
17	<b>145.487</b>	1316 302 065	1344616	Constant Gear 34 T	1		A			●		
17	<b>145.554</b>	1316 302 067	1394364	Constant Gear 35 T	1		B			●	●	
17	<b>145.483</b>	1316 302 066	1369642	Constant Gear 30 T	1		C			●	●	
18	<b>109.134</b>	1312 304 027	69584	Synchronizer Cone	1			●	●	●	●	
19	<b>119.119</b>	1297 304 402	66373	Synchronizer Ring	2	Old Type		●	●	●	●	
19	<b>119.167</b>	1297 304 484	1342731	Synchronizer Ring	2	New Type		●	●	●	●	
20	190.304	1315 202 037	1373772	Input Shaft	1	L=125 H=31,5		●				
20	190.315	1315 202 040		Input Shaft	1	L=102 H=32		●				
20		1315 202 048		Input Shaft	1	With WSK400		●				
20	190.317	1315 221 002	1344258	Input Shaft	1	NMV221 (Clutch PTO)		●				
20	190.303	1316 202 025	1369129	Input Shaft	1	L=134 H=32			●	●	●	
20	190.300	1316 202 026		Input Shaft	1				●	●		
20	190.310	1316 202 033		Input Shaft	1	L=63 H=46,5 / WSK400				●		
20		1316 202 038		Input Shaft	1				●	●		
20		1316 221 017	1344615	Input Shaft	1	NMV221 (Clutch PTO)			●	●		
21	<b>160.189</b>	1297 304 436	68332	Pressure Piece	3			●	●	●	●	

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. **DO NO MIX** Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (@) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

03 / 2006

## Table

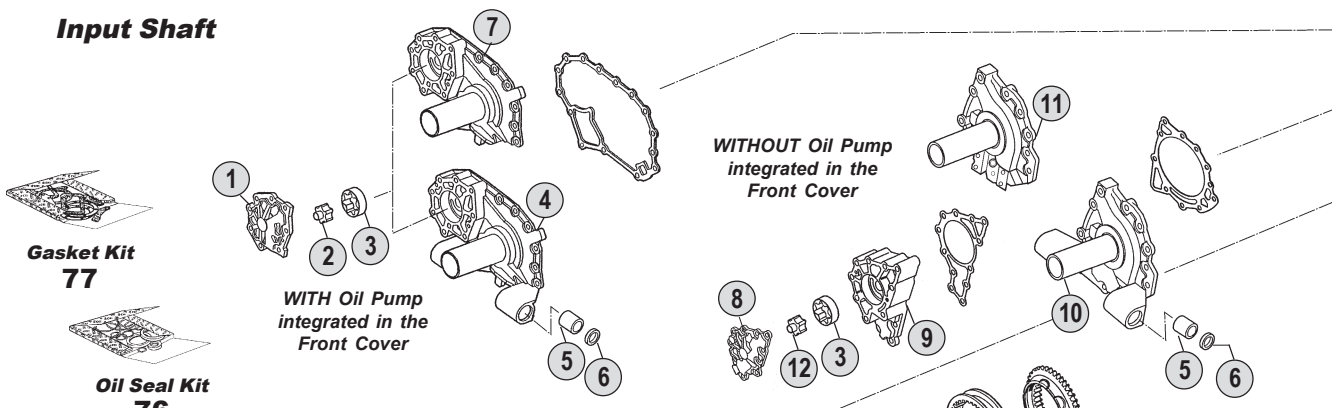
023 / A

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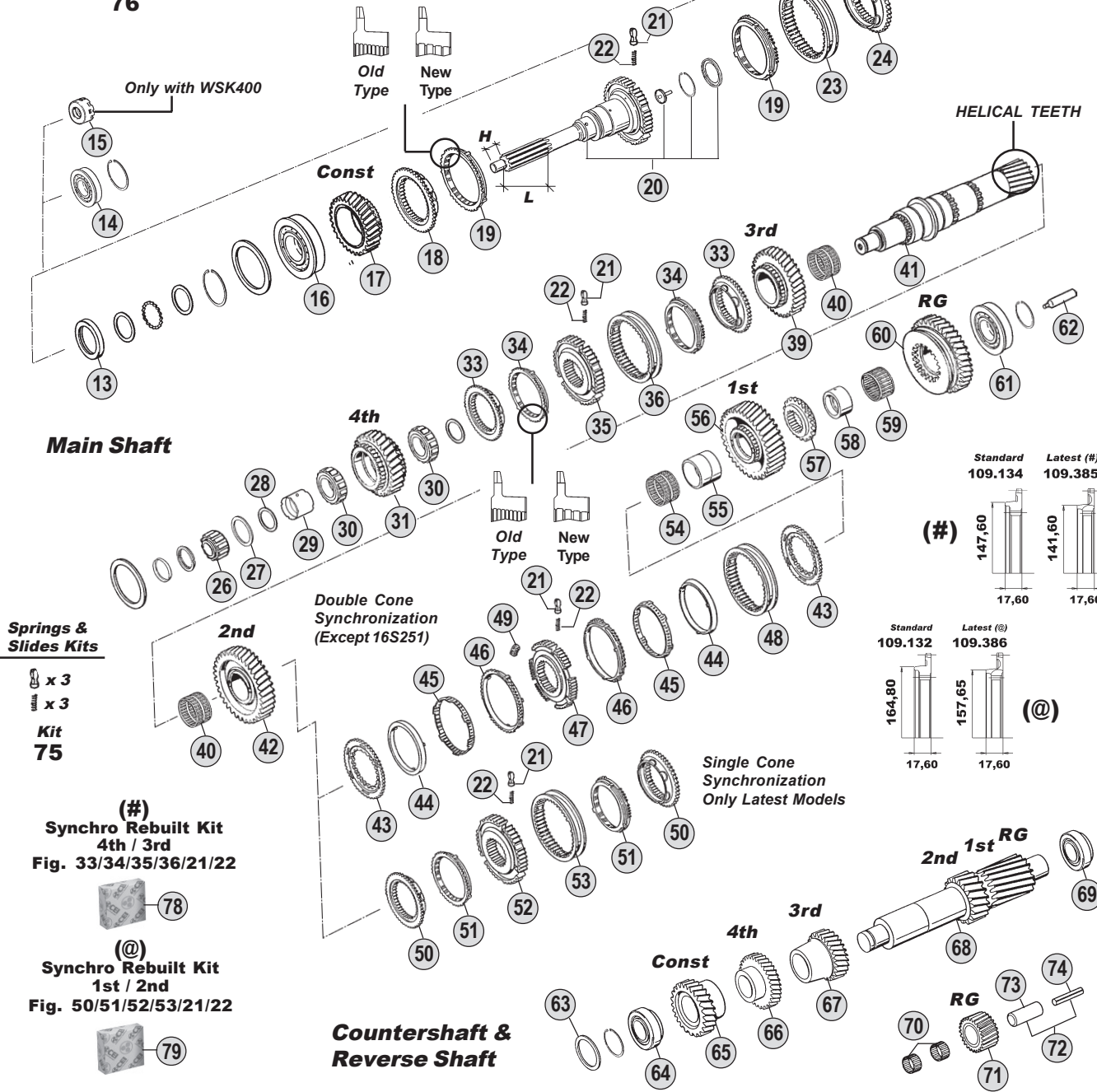
Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

**Input Shaft**



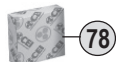
**Main Shaft**



**Springs & Slides Kits**

x 3  
x 3  
**Kit 75**

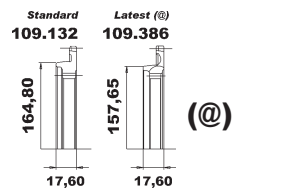
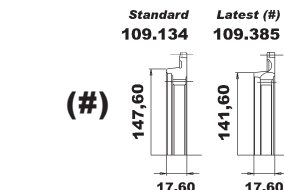
(#)  
**Synchro Rebuilt Kit**  
4th / 3rd  
Fig. 33/34/35/36/21/22



(@)  
**Synchro Rebuilt Kit**  
1st / 2nd  
Fig. 50/51/52/53/21/22



**Countershaft & Reverse Shaft**



**Ratios**

16S151	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S181	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S221	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
16S251	A: --	B: 13,80 - 0,84	C: --	D: --	E: --



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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					DAF no.	16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)	
22	156.140	0732 040 409	171349	Spring D.6,50x23,50	3		●	●	●	●		
23	154.135	1310 304 202	1377181	Sliding Sleeve	1		●	●	●	●		
24	109.133	1312 304 056	69561	Synchronizer Cone	1		●	●	●	●		
26	137.150	0750 117 232	69589	Roller Cage D.42x40,30	1		●	●	●	●		
27		1315 304 048	1339813	Ring	1	S.8,00 mm	●	●	●	●		
27		1315 304 043		Ring	1	S.7,50 mm	●	●	●	●		
28	169.776	0750 101 158	1392338	Thrust Washer 81,5x5	1		●	●	●	●		
29	117.321	0750 119 125		Bush 67x77x54,1	1		●					
29	117.320	0750 119 124	1394366	Bush D.67x77x66,10	1			●	●	●		
30	137.164	0750 115 534	1394631	Roller Cage 77x101x29	2		●					
30	137.136	0750 115 531	1392339	Roller Cage D.77x101x29	2			●	●	●		
31	146.431	1315 304 017	1291081	Gear 4th Speed 30 T	1			●				
31	146.320	1315 304 089	1350862	Gear 4th Speed 32 T	1			●				
31	146.410	1316 304 007	1300654	Gear 4th Speed 30 T	1				●			
31	146.401	1316 304 103	1330831	Gear 4th Speed 32 T	1				●	●	●	
33	109.134	1312 304 027	69584	Synchronizer Cone	2		●	●	●	●		
33	109.385	1316 304 159		Synchronizer Cone	2		(#)	●	●	●	●	
34	119.119	1297 304 402	66373	Synchronizer Ring	2	Old Type	●	●	●	●		
34	119.167	1297 304 484	1342731	Synchronizer Ring	2	New Type	●	●	●	●		
34	119.217	1316 304 149		Synchronizer Ring	2		(#)	●	●	●	●	
35	157.180	1312 304 052	69585	Synchronizer Hub	1		●	●	●	●		
35	157.227	1316 304 162		Synchronizer Hub	1		(#)	●	●	●	●	
36	154.135	1310 304 202	1377181	Sliding Sleeve	1		●	●	●	●		
36	154.357	1315 304 135		Sliding Sleeve	1		(#)	●	●	●	●	
39	145.514	1315 304 028	1291080	Gear 3rd Speed 32 T	1		●					
39	145.456	1315 304 027	1290972	Gear 3rd Speed 34 T	1		●					
39	145.484	1316 304 094	1330830	Gear 3rd Speed 34 T	1			●				
39	145.488	1316 304 009	1300653	Gear 3rd Speed 32 T	1				●			
39	145.473	1316 304 008	1295201	Gear 3rd Speed 34 T	1				●			
39	145.555	1316 304 066		Gear 3rd Speed 34 T	1					●		
40	137.137	0735 321 087	69568	Needle Cage D.92x100x53	2		●					
40	137.138	0750 115 303	1227002	Needle Cage D.92x100x63	2			●	●	●		
41	103.138	1315 304 131	1395354	Main Shaft	1		●					
41	103.130	1316 304 132	1395314	Main Shaft	1			●	●			
41	103.143	1316 304 131		Main Shaft	1					●		
42	145.455	1315 304 026	1291077	Gear 2nd Speed 37 T	1		●					
42	145.454	1315 304 025	1290968	Gear 2nd Speed 38 T	1		●					
42	145.515	1316 304 003	1300650	Gear 2nd Speed 37 T	1				●			
42	145.474	1316 304 002	1295197	Gear 2nd Speed 38 T	1				●	●	●	
43	109.176	1312 304 106	1227005	Synchronizer Cone	2		●	●	●	●		
44	119.152	1268 304 424	1227006	Intermediate Ring	2		●	●	●	●		
45	119.153	1268 304 494	1377179	Intermediate Cone	2		●	●	●	●		
46	119.144	1268 304 525	1227008	Synchronizer Ring	2		●	●	●	●		
47	157.181	1312 304 158	1250147	Synchronizer Hub	1		●	●	●	●		
48	154.190	1310 304 175	1353770	Sliding Sleeve	1		●	●	●	●		

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. Do NO MIX Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 79  
 (@) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 80

## Date

03 / 2006

## Table

023 / A

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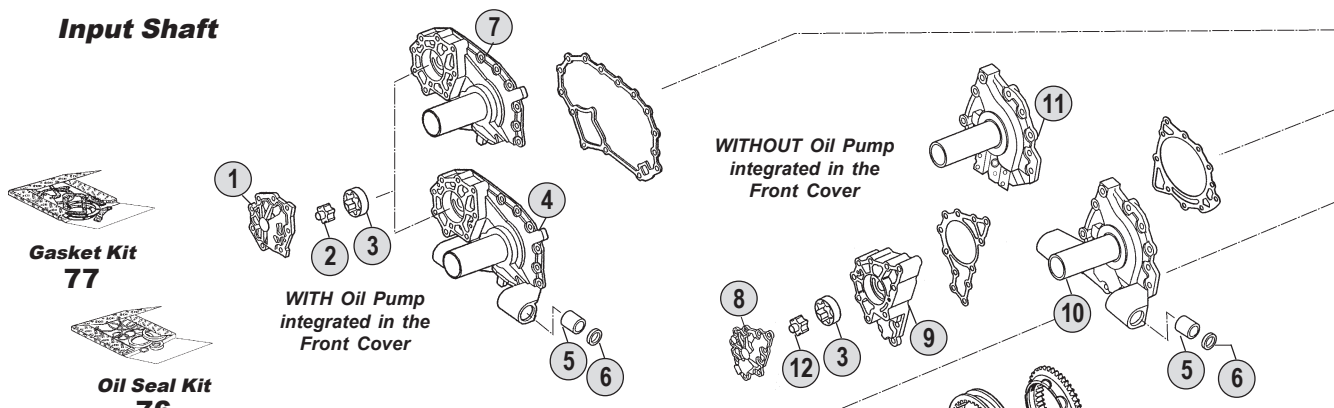


ECO III  
From 16S151  
To 16S251

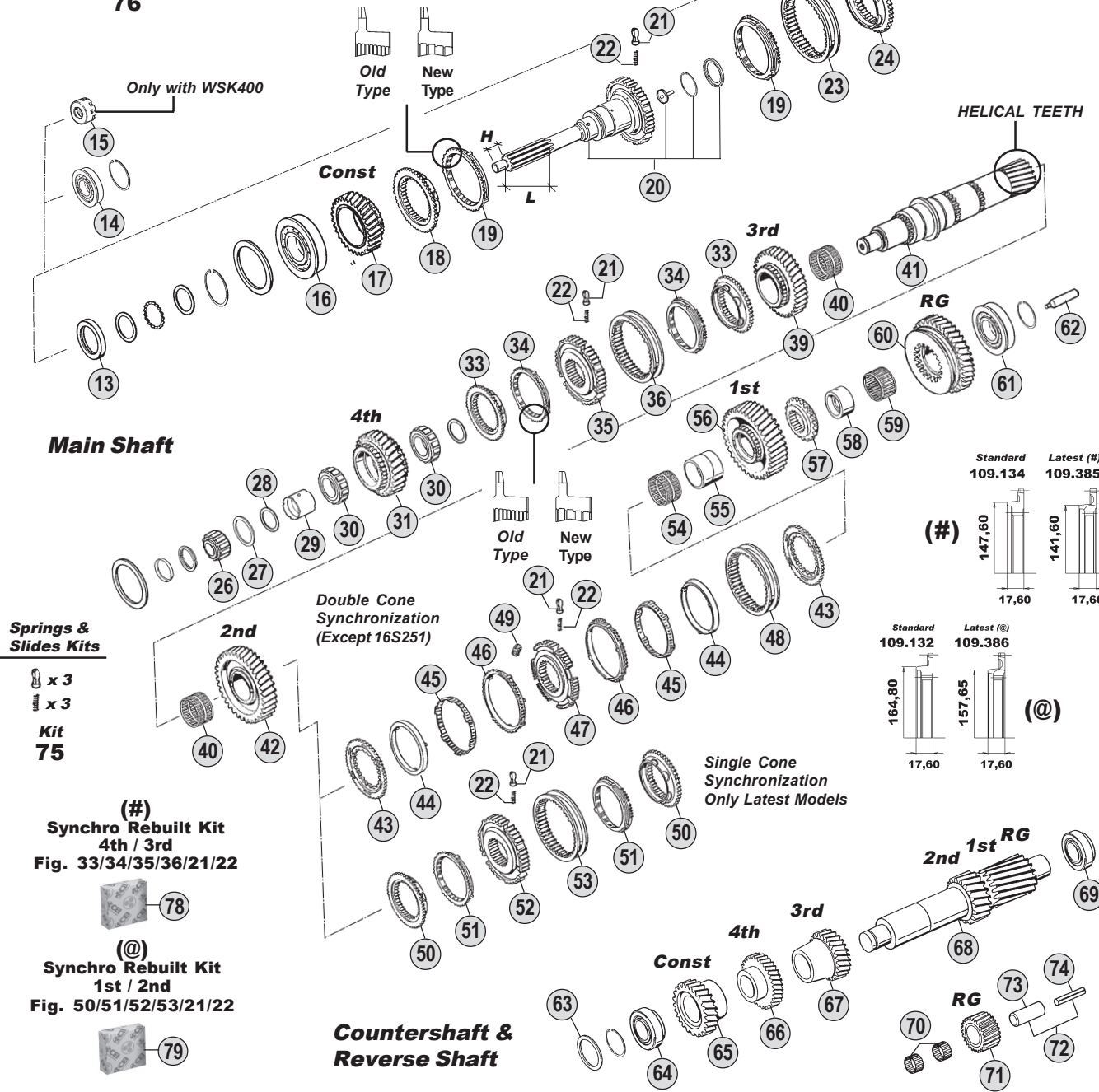
Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

**Input Shaft**



**Main Shaft**

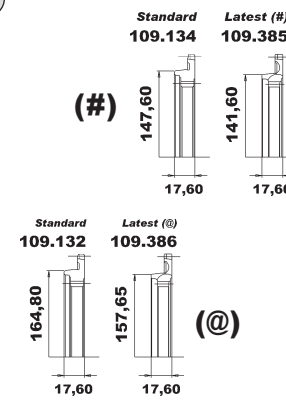


**Springs & Slides Kits**  
 x 3  
 x 3  
**Kit 75**

(#)  
**Synchro Rebuilt Kit**  
 4th / 3rd  
 Fig. 33/34/35/36/21/22

(@)  
**Synchro Rebuilt Kit**  
 1st / 2nd  
 Fig. 50/51/52/53/21/22

**Countershaft & Reverse Shaft**



**Ratios**

<b>16S151</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S181</b>	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S221</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S251</b>	A: --	B: 13,80 - 0,84	C: --	D: --	E: --



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	DAF no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)
49	156.176	1312 304 159	1300312	Pad	3			●	●	●	●
50	109.132	1313 304 009	69572	Synchronizer Cone	2	(*)		●	●	●	●
50	109.386	1316 304 156		Synchronizer Cone	2		(@)	●	●	●	●
51	119.122	1297 304 401	66365	Synchronizer Ring	2	(*) Old Type		●	●	●	●
51	119.166	1297 304 485	1360740	Synchronizer Ring	2	(*) New Type		●	●	●	●
51	119.218	1316 304 150		Synchronizer Ring	2		(@)	●	●	●	●
52	157.189	1313 304 008	69570	Synchronizer Hub	1	(*)		●	●	●	●
52	157.228	1316 304 163		Synchronizer Hub	1		(@)	●	●	●	●
53	154.202	1316 304 078	1360725	Sliding Sleeve	1	(*)		●	●	●	●
53	154.358	1315 304 136		Sliding Sleeve	1		(@)	●	●	●	●
54	137.160	0750 115 325	69574	Needle Cage D.96x104x55	1			●			
54	137.151	0750 115 327	1227012	Needle Cage D.96x104x72	1				●	●	●
55	117.294	1313 304 038	69573	Bush	1			●			
55	117.310	1312 304 084	1227011	Bush D.85x96x72	1				●	●	●
56	145.453	1315 304 014	1291078	Gear 1st Speed 44 T	1		A	●			
56	145.452	1315 304 004	1290969	Gear 1st Speed 47 T	1		BC	●			
56	145.522	1316 304 013	1300651	Gear 1st Speed 44 T	1		A			●	
56	145.475	1316 304 010	1295198	Gear 1st Speed 47 T	1		BC		●	●	●
57	109.144	1315 304 018	1290970	Engaging Ring	1			●			
57	109.163	1312 304 124	1295199	Engaging Ring	1				●	●	●
58	117.293	1315 304 132	1381158	Bush	1			●			
58	117.311	1316 304 133	1386223	Bush D.80x90x50	1				●	●	●
59	137.162	0750 115 324	69578	Roller Cage D.90x98x41	1			●			
59	137.140	0750 115 326	1227017	Roller Cage D.90x98x50	1				●	●	●
60	147.124	1315 304 013	1291079	Reverse Gear 42 T	1		A	●			
60	147.123	1315 304 006	1290971	Reverse Gear 44 T	1		BC	●			
60	147.144	1316 304 015	1300652	Reverse Gear 42 T	1		A			●	
60	147.128	1316 304 012	1295200	Reverse Gear 44 T	1		BC		●	●	●
61	130.309	0750 117 677	1333686	Bearing D.80x130x36	1			●			
61	130.304	0750 117 678	1330399	Bearing D.80x140x36,50	1				●	●	●
62	188.209	1312 304 150	1246838	Oil Tube	1			●	●	●	
62		1316 304 093		Oil Tube	1						●
63		0730 106 917	1212189	Washer	1	S.3,00 mm		●	●	●	●
63		0730 101 471	1212193	Washer	1	S.2,00 mm		●	●	●	●
64	130.308	0750 117 009	691357	Bearing D.49,2x103,1x43,6	1			●	●	●	
64	130.519	0735 371 604		Bearing D.49,2x103,1x43,6	1						●
65	146.427	1315 303 052	1342737	Constant Gear 37 T	1		A	●			
65	146.473	1315 303 051		Constant Gear 32 T	1		B	●			
65	146.367	1315 303 008	1291075	Constant Gear 39 T	1		C	●			
65	146.485	1316 303 056	1340224	Constant Gear 32 T	1		B		●		
65	146.398	1316 303 055	1330827	Constant Gear 39 T	1		C		●		
65	146.407	1316 303 031	1300648	Constant Gear 37 T	1		A			●	
65	146.469	1316 303 064	1394365	Constant Gear 32 T	1		B			●	●
65	146.486	1316 303 030	1295191	Constant Gear 39 T	1		C			●	
66	146.429	1315 303 046	1317303	Gear 4th Speed 39 T	1		A	●			

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. Do NO MIX Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 79  
 (@) Latest Synchro gen. DO NO MIX the two different version. To update the previous one use the synchro rebuilt kit fig. 80

## Date

03 / 2006

## Table

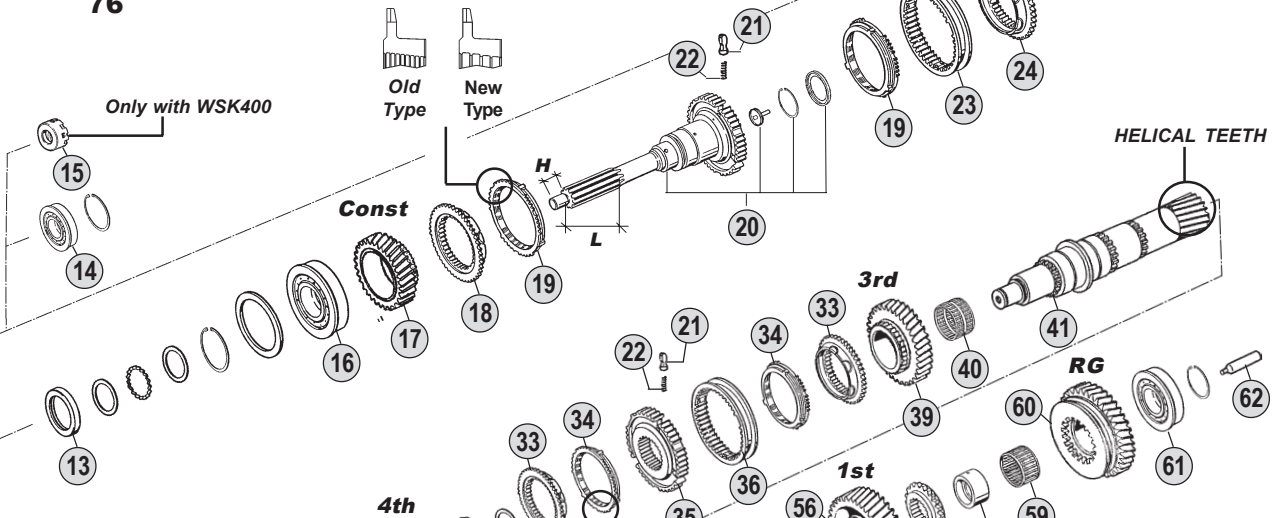
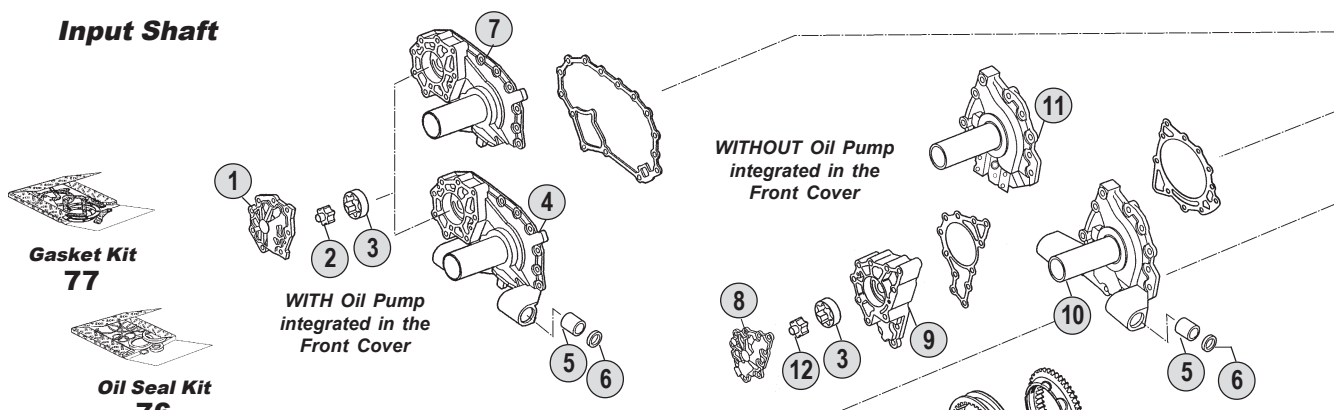
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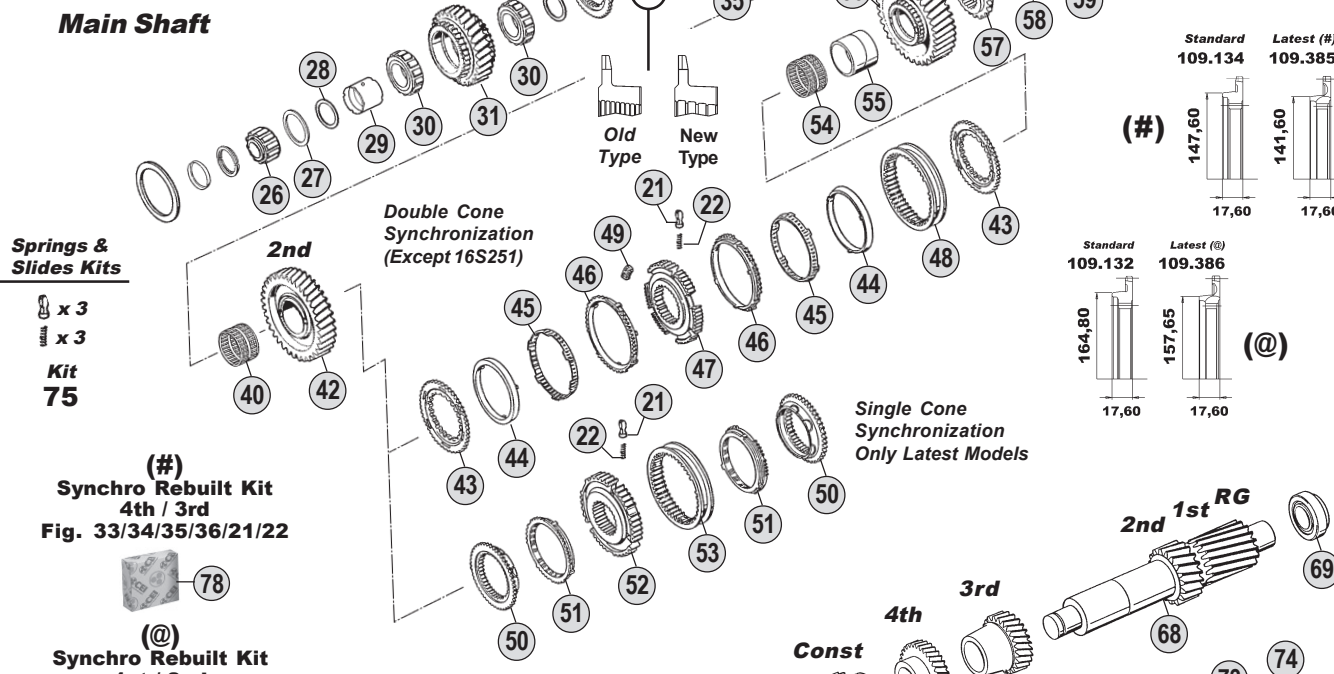
Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

**Input Shaft**



**Main Shaft**



**Springs & Slides Kits**  
 x 3  
 x 3  
**Kit 75**

(#)  
**Synchro Rebuilt Kit**  
 4th / 3rd  
 Fig. 33/34/35/36/21/22

(@)  
**Synchro Rebuilt Kit**  
 1st / 2nd  
 Fig. 50/51/52/53/21/22

**Countershaft & Reverse Shaft**

**Ratios**

<b>16S151</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S181</b>	A: --	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S221</b>	A: 13,74-0,84	B: 13,80 - 0,84	C: 16,41 - 1,00	D: --	E: --
<b>16S251</b>	A: --	B: 13,80 - 0,84	C: --	D: --	E: --



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## O.E.M. Reference

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	DAF no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)			
66	146.474	1315 303 050	1350861	Gear 4th Speed 35 T	1		BC	●						
66	146.399	1316 303 063	1330828	Gear 4th Speed 35 T	1		BC		●					
66	146.408	1316 303 004	1300649	Gear 4th Speed 39 T	1		A			●				
66	146.426	1316 303 065	1360899	Gear 4th Speed 35 T	1		BC			●	●			
67	146.368	1315 303 010	1291073	Gear 3rd Speed 28 T	1		A	●						
67	146.365	1315 303 004	1290965	Gear 3rd Speed 26 T	1		BC	●						
67	146.400	1316 303 058	1330826	Gear 3rd Speed 26 T	1		BC		●					
67	146.409	1316 303 006	1300647	Gear 3rd Speed 28 T	1		A			●				
67	146.391	1316 303 005	1295190	Gear 3rd Speed 26 T	1		BC			●				
67	146.470	1316 303 040		Gear 3rd Speed 26 T	1		B				●			
68	105.109	1315 303 041	1300691	Countershaft 19-23 T	1		A	●						
68	105.124	1315 303 042	1297001	Countershaft 17-20 T	1		BC	●						
68	105.103	1316 303 034	1300646	Countershaft 19-23 T	1		A			●				
68	105.100	1316 303 033	1295189	Countershaft 17-20 T	1		BC		●	●				
68	105.123	1316 303 038		Countershaft 17-20 T	1		B				●			
69	130.307	0750 117 011	689905	Bearing D.50,8x104,7x39,6	1			●						
69	130.308	0750 117 009	691357	Bearing D.49,2x103,1x43,6	1				●	●				
69	130.519	0735 371 604		Bearing D.49,2x103,1x43,6	1						●			
70	137.135	0750 115 366	1290947	Needle Cage D.45x57x21	2			●						
70	137.149	0750 115 369	1295179	Needle Cage D.45x57x25	2				●	●	●			
71	147.142	1315 305 005	1291007	Reverse Gear 20 T	1		A	●						
71	147.126	1315 305 002	1290946	Reverse Gear 22 T	1		BC	●						
71	147.143	1316 305 002	1295178	Reverse Gear 20 T	1		A			●				
71	147.127	1316 305 001	1295177	Reverse Gear 22 T	1		BC		●	●	●			
72		1315 201 054	1344257	Reverse Shaft	1	Old (3)	A	●						
72		1315 201 053	1344256	Reverse Shaft	1	Old (3)	BC	●						
72		1316 201 030	1295182	Reverse Shaft	1	Old (3)	A			●				
72	190.301	1316 201 029	1344227	Reverse Shaft	1	Old (3)	BC		●	●				
72		1316 201 075		Reverse Shaft	1	Old (3)	B				●			
73	190.302	1315 305 009	1290948	Reverse Shaft	1	New		●	●	●	●			
74		0631 329 293	1291068	Pin	1	New	A	●						
74		0631 329 294		Pin	1	New	BC	●						
74		0631 329 295	1295183	Pin	1	New	A			●				
74		0631 329 296	1295181	Pin	1	New	BC		●	●				
74		0631 329 305		Pin	1	New	B				●			
75	198.843	CEI 198843		Spring Slide Set	1			●	●	●	●			
76	198.838	1315 298 002	1329624	Oil Seal Kit	1			●	●	●	●			
77	198.797	1315 298 001	1289527	Gasket Kit	1			●	●	●	●			
78	298.021	1315 298 061		Synchro kit 4th/3rd Speed	1		(#)	●	●	●	●			
79	298.020	1315 298 060		Synchro kit 1st/2nd Speed	1		(@)	●	●	●	●			

## Notes

- (1) Only for Input S. 1315 202 048-1316 202 033 (2) Only for Input S. 1315 221 002-1316 221 017  
 (3) Old Type. Replaced by 1 pc. fig. 73 + 1 pc. fig. 74  
 (\*) New Models only. **DO NO MIX** Single Cone Synchro. with Double Cone Synchro.  
 (#) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 79**  
 (@) Latest Synchro gen. **DO NO MIX** the two different version. To update the previous one use the **synchro rebuilt kit fig. 80**

## Date

03 / 2006

## Table

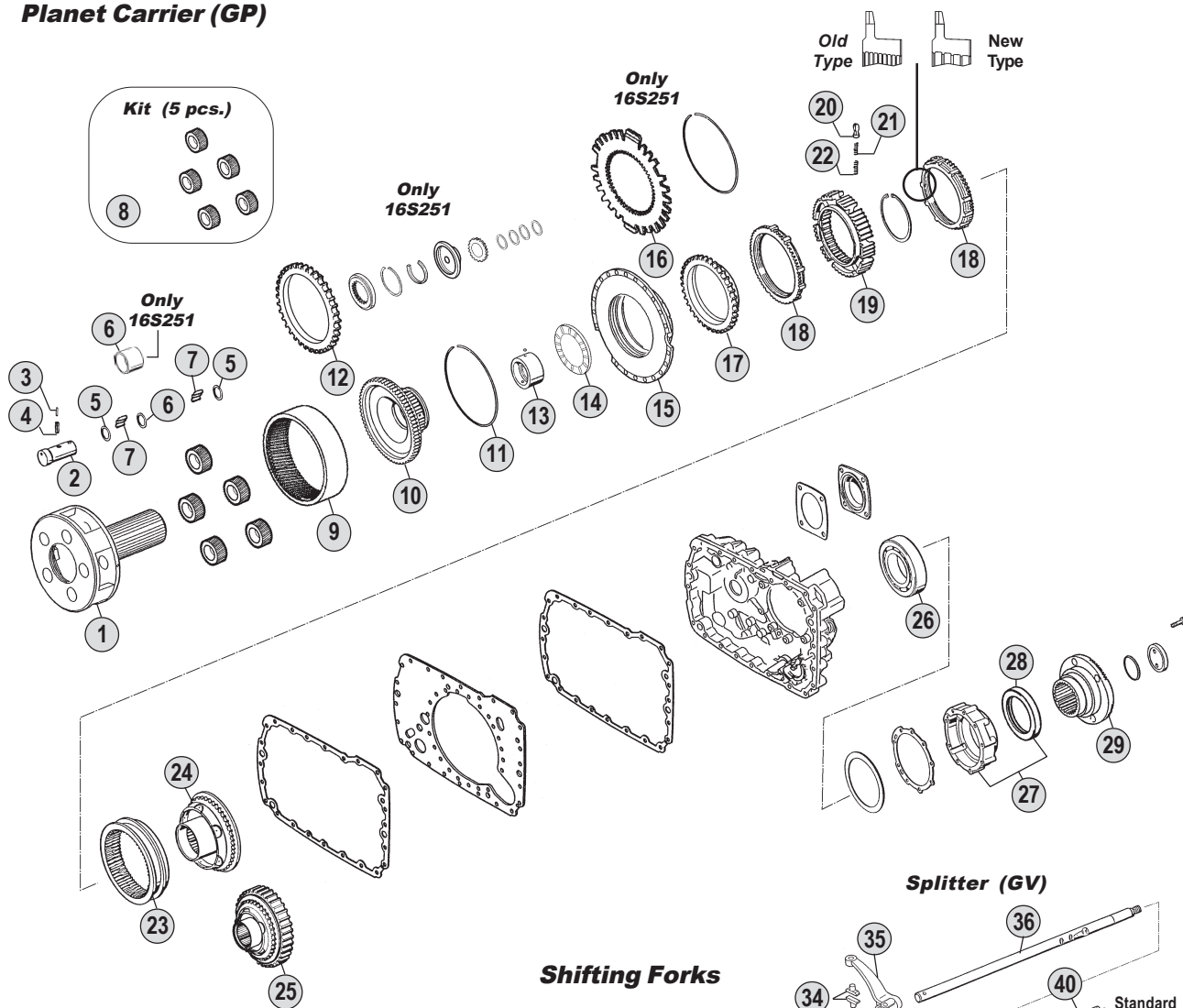
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Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

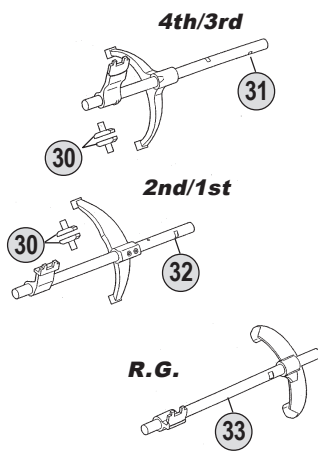
**Planet Carrier (GP)**



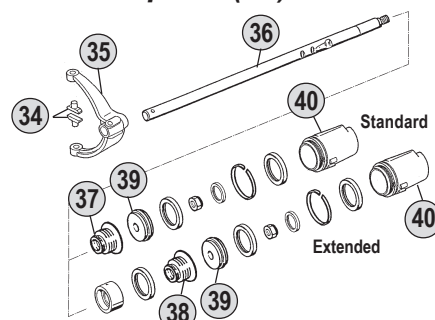
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 50</b>	<b>Kit 51</b>	<b>Kit 52</b>

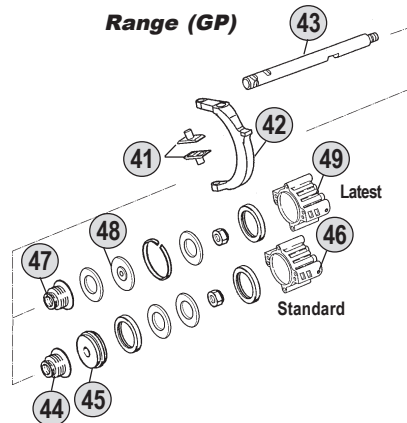
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S151</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S181</b>	A : --	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S221</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S251</b>	A : --	B : 13,80 - 0,84	C : --	D : --	E : --

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					DAF no.	16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)	
1	190.394	1315 232 016	1342738	Planetary Carrier	1		●					
1	190.325	1316 232 019	1330408	Planetary Carrier	1			●				
1	190.394	1315 232 016	1342738	Planetary Carrier	1	(4)		●				
1	190.325	1316 232 019	1330408	Planetary Carrier	1				●			
1		1316 232 021		Planetary Carrier	1					●		
2	107.159	1315 332 053	1342739	Planet Shaft	5		●					
2	107.204	1316 332 096	1344059	Planet Shaft	5			●				
2	107.159	1315 332 053	1342739	Planet Shaft	5	(4)		●				
2	107.204	1316 332 096	1344059	Planet Shaft	5				●			
2		1316 332 097		Planet Shaft	5					●		
3	160.195	0631 329 167	1344438	Lock Pin D.3x26	5		●	●	●	●		
4	160.194	0631 329 051	1344439	Lock Pin D.5x26	5		●	●	●	●		
5	169.744	0730 107 168	69077	Spacer Ring	10		●					
5	269.009	0730 109 323	1330411	Spacer Ring	10			●				
5	169.744	0730 107 168	69077	Spacer Ring	10	(4)		●				
5	269.009	0730 109 323	1330411	Spacer Ring	10				●	●		
6	169.744	0730 107 168	69077	Spacer Ring	5		●					
6	269.010	0730 109 309	1330410	Spacer Ring	5			●				
6	169.744	0730 107 168	69077	Spacer Ring	5	(4)		●				
6	269.010	0730 109 309	1330410	Spacer Ring	5				●			
6		0730 162 801		Bush T.14,90	5					●		
7	171.062	0750 119 116	1284246	Roller D.10x16,8	140		●	●	●	●		
8	198.798	1315 232 010	1339875	Planetary Gear Set (5 pcs)	1		●					
8	298.024	1316 232 011	1330409	Planetary Gear Set (5 pcs)	1			●				
8	198.798	1315 232 010	1339875	Planetary Gear Set (5 pcs)	1	(4)		●				
8	298.024	1316 232 011	1330409	Planetary Gear Set (5 pcs)	1				●			
8		1316 232 017		Planetary Gear Set (5 pcs)	1					●		
9	123.211	1315 332 041	1339877	Crown Gear	1		●	●	●	●		
9		1316 332 042		Crown Gear	1					●		
10	150.136	1316 332 103	1395605	Carrier Hub	1		●	●	●	●		
10		1316 332 073		Carrier Hub	1					●		
11		0730 513 583		Locking Wire	1		●	●	●	●		
11		0730 513 639		Locking Wire	1					●		
12		1316 332 044		Ring Gear	1					●		
13		1316 333 014		Bush	1		●	●	●	●		
14	130.312	0735 298 169	1330415	Bearing D.104,50x128,40x10	1		●	●	●	●		
15	135.122	1296 333 046	1450534	Saddle Plate	1		●	●	●	●		
16		1316 333 026		Saddle Plate	1					●		
17	109.174	1296 333 050	1377131	Synchronizer Cone	1		●	●	●	●		
18	119.085	1296 333 022	1303708	Synchronizer Ring	2	Old Type	●	●	●	●		
18	119.172	1296 333 045	1354113	Synchronizer Ring	2	New Type	●	●	●	●		
19	157.182	1313 333 001	69909	Synchronizer Hub	1		●	●	●	●		
20	160.116	1240 304 278	326962	Pressure Piece	9		●	●	●	●		
21	156.036	0732 040 386	326964	Inner Spring De.3x34	9		●	●	●	●		
22	156.037	0732 040 385	326963	Outer Spring De.6x34	9		●	●	●	●		

## Notes

(4) 16S181 Special GP Version. This version use 16S151 GP items.  
For this version use items marked (4) together.

## Date

03 / 2006

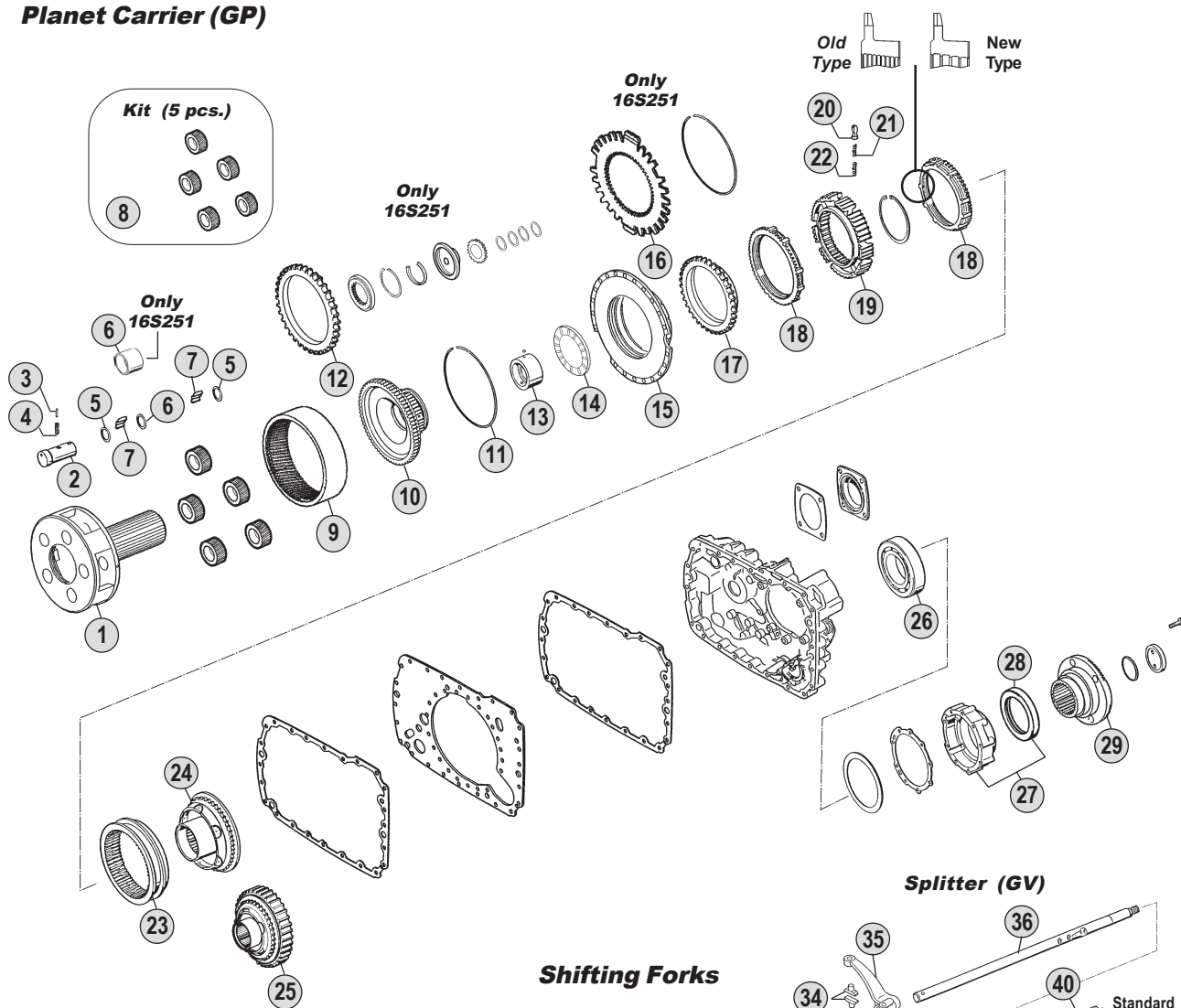
## Table

023 / B

Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

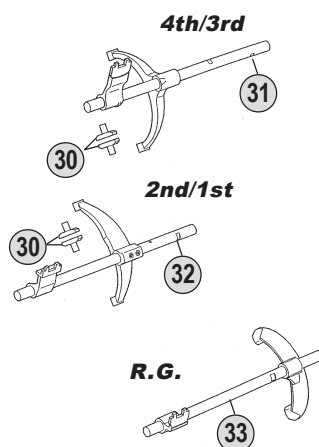
**Planet Carrier (GP)**



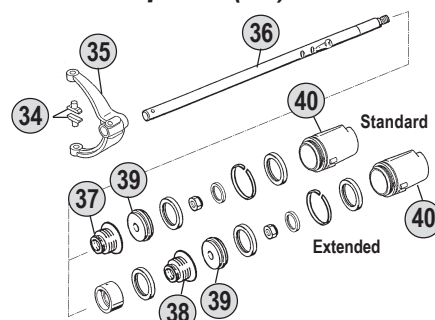
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 50</b>	<b>Kit 51</b>	<b>Kit 52</b>

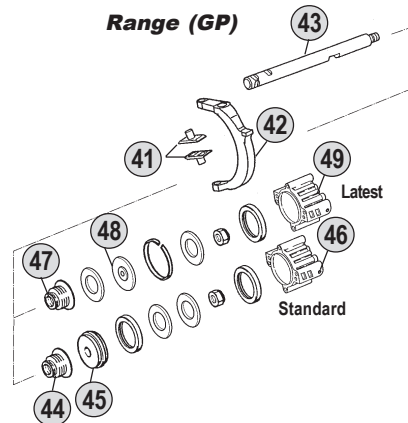
**Shifting Forks**



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S151</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S181</b>	A : --	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S221</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S251</b>	A : --	B : 13,80 - 0,84	C : --	D : --	E : --

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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	DAF no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)
23	154.098	1296 333 023	689814	Sliding Sleeve	1			●	●	●	●
24	109.175	1316 233 015	1330419	Synchronizer Cone (44 Spl.)	1			●	●	●	●
25	196.270	1316 233 014	1340371	Synchronizer Cone 59 T (44 Spl)	1	With Retarder		●	●	●	●
26	130.245	0750 116 002	692184	Bearing D.90x160x30	1			●	●	●	●
27		1315 231 004		Cover	1			●	●	●	●
28		0750 111 341	1304242	Oil Seal 105x130x12	1			●	●	●	●
29		1297 333 110	1227595	Output Flange	1	D.180-4.H.		●	●	●	●
29		1316 232 028		Output Flange	1	D.222-4.H.		●			
29		1316 338 002	1297598	Output Flange	1	D.180-4.H.				●	
30	141.163	1297 306 120	66379	Slide	2	Old Type		●	●	●	●
30	141.168	1316 306 015	1604637	Slide	2	New Type		●	●	●	●
31		1315 206 013	1290975	Fork	1	Old Type		●			
31		1315 206 055		Fork	1	New Type		●			
31		1315 206 024		Fork	1	Old Type		●			
31		1315 206 056		Fork	1	New Type		●			
31		1316 206 018	1295207	Fork	1	Old Type			●	●	●
31		1316 206 037		Fork	1	New Type			●	●	●
31		1316 206 017		Fork	1	Old Type				●	
31		1316 206 038		Fork	1	New Type				●	
32		1315 206 046	1317301	Fork	1	Old Type		●			
32		1315 206 052		Fork	1	New Type		●			
32		1315 206 047		Fork	1	Old Type		●			
32		1315 206 053		Fork	1	New Type		●			
32		1316 206 025	1317309	Fork	1	Old Type			●	●	●
32		1316 206 033		Fork	1	New Type			●	●	●
32		1316 206 026		Fork	1	Old Type				●	
32		1316 206 034		Fork	1	New Type				●	
32		1316 206 027		Fork	1	Old Type				●	
32		1316 206 035		Fork	1	New Type				●	
33		1315 206 003		Fork	1			●			
33		1315 206 023	1290976	Fork	1			●			
33		1316 206 013	1295208	Fork	1				●	●	●
33		1316 206 014		Fork	1					●	
34	141.163	1297 306 120	66379	Slide	2	Old Type		●	●	●	●
34	141.168	1316 306 015	1604637	Slide	2	New Type		●	●	●	●
35		1315 312 017	1291083	Fork	1	Old Type		●	●	●	●
35		1315 312 074		Fork	1	New Type		●	●	●	●
36		1315 312 049	1313722	Rod	1	Standard		●			
36		1315 312 022	1291082	Rod	1	Extended		●			
36		1316 312 016	1343551	Rod	1	Standard			●	●	●
36		1316 312 008	1295231	Rod	1	Extended				●	
37		0750 112 131	1295232	Cap Collar D.25x40x15	1	Standard		●	●	●	●
38	139.331	0750 112 034	692237	Cap Collar D.25x38x14,2	1	Extended		●		●	
39		1315 312 020	1291085	Piston	1			●	●	●	●
40		1315 312 048	1317307	Cylinder	1			●			

## Notes

(4) 16S181 Special GP Version. This version use 16S151 GP items.  
For this version use items marked (4) together.

## Date

03 / 2006

## Table

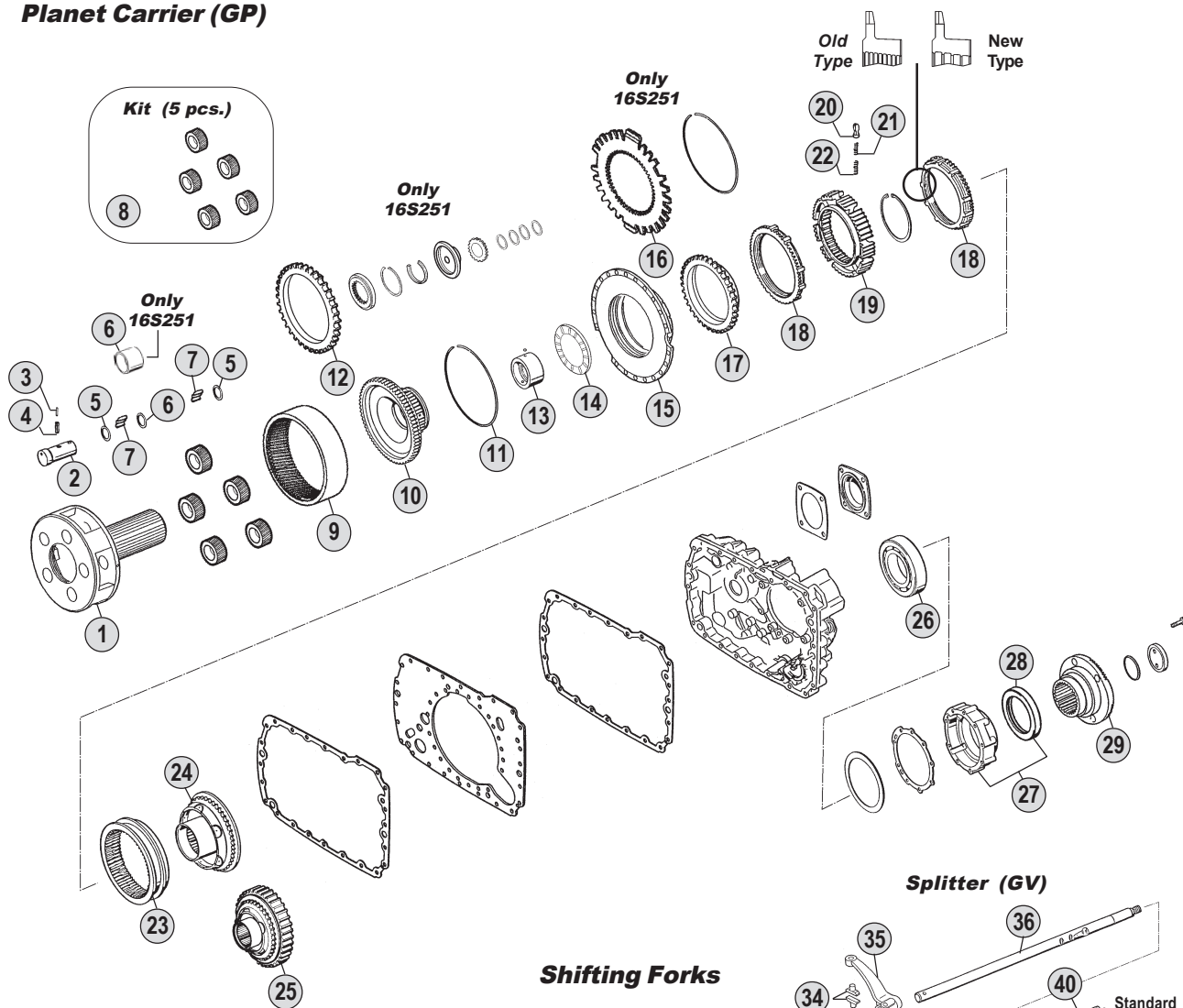
023 / B

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Suitable To : **ZF**

**16S151 - 16S181 - 16S221 - 16S251**

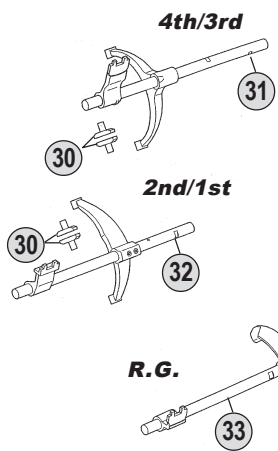
**Planet Carrier (GP)**



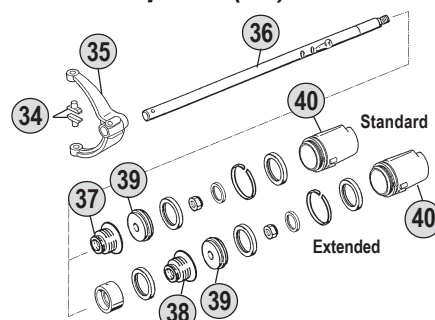
**Shifting Forks**

**Springs & Slides Kits**

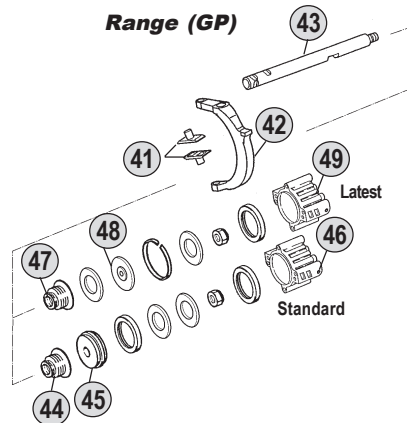
x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 50</b>	<b>Kit 51</b>	<b>Kit 52</b>



**Splitter (GV)**



**Range (GP)**



**Kits**



**Ratios**

<b>16S151</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S181</b>	A : --	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S221</b>	A : 13,74 - 0,84	B : 13,80 - 0,84	C : 16,41 - 1,00	D : --	E : --
<b>16S251</b>	A : --	B : 13,80 - 0,84	C : --	D : --	E : --



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16S151 (1315)  
16S181 (1316)  
16S221 (1316)  
16S251 (1316)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	DAF no.					16S151 (1315)	16S181 (1316)	16S221 (1316)	16S251 (1316)	
40		1316 312 015	1317310	Cylinder	1			●	●	●		
41	141.085	1296 334 004	692175	Bronze Slide	2			●	●	●	●	
42		1315 334 039	1330407	Fork	1			●	●	●	●	
43		1315 334 058	1291001	Rod	1			●				
43		1316 334 010	1442292	Rod	1				●	●		
43		1316 334 011		Rod	1						●	
44	139.331	0750 112 034	692237	Cap Collar D.25x38x14,2	1	Standard Type		●		●		
45	189.422	1296 334 039	699798	Piston	1	Standard Type		●		●		
46		1315 334 021	1291002	Cylinder	1	Standard Type		●		●		
47		0750 112 131	1295232	Cap Collar D.25x40x15	1	Latest Type		●	●	●	●	
48		1315 334 034	1295235	Piston	1	Latest Type		●	●	●	●	
49		1315 334 056	1377183	Cylinder	1	Latest Type		●	●	●	●	
50	198.339	1268 298 938		Spring Slide Set	1			●	●	●	●	
51	198.564	CEI 198564		Spring Slide Set	1			●	●	●	●	
52	198.842	1295 298 933		Spring Slide Set	1			●	●	●	●	
53	198.838	1315 298 002	1329624	Oil Seal Kit	1			●	●	●	●	
54	198.797	1315 298 001	1289527	Gasket Kit	1			●	●	●	●	

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## Notes

(4) 16S181 Special GP Version. This version use 16S151 GP items.  
For this version use items marked (4) together.

## Date

03 / 2006

## Table

023 / B





Suitable to: **Volvo**

# Gearboxes Index

## EcoSplit I

**16S130****16S160****16S190/1**

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**VOLVO  
INDEX**



suitable to :

**Z.F.****EcoSplit I****From 16S112 to 16S190****Application**

	<b>16S112</b>	<b>16S130</b>	<b>16S160</b>	<b>16S190</b>
	(1296)	(1295)	(1297)	(1297)
<b>MERCEDES</b>				
<b>M.A.N.</b>				
<b>IVECO</b>				
<b>R.V.I.</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**Ratios**

	<b>R.10,14-0,72</b>	<b>R.11,46-0,85</b>	<b>R.13,68-1,00</b>	<b>R.14,29-0,82</b>	<b>R.17,06-1,00</b>
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>16S112</b>					
<b>16S130</b>					
<b>16S160</b>					
<b>16S190</b>					

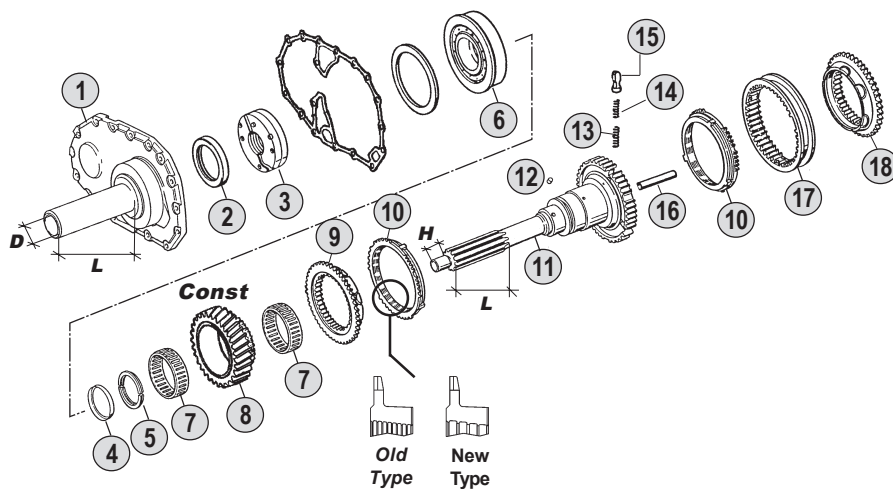
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**ECO I**  
From 16S130  
To 16S160

Suitable To : **ZF**

**16S130 - 16S160**

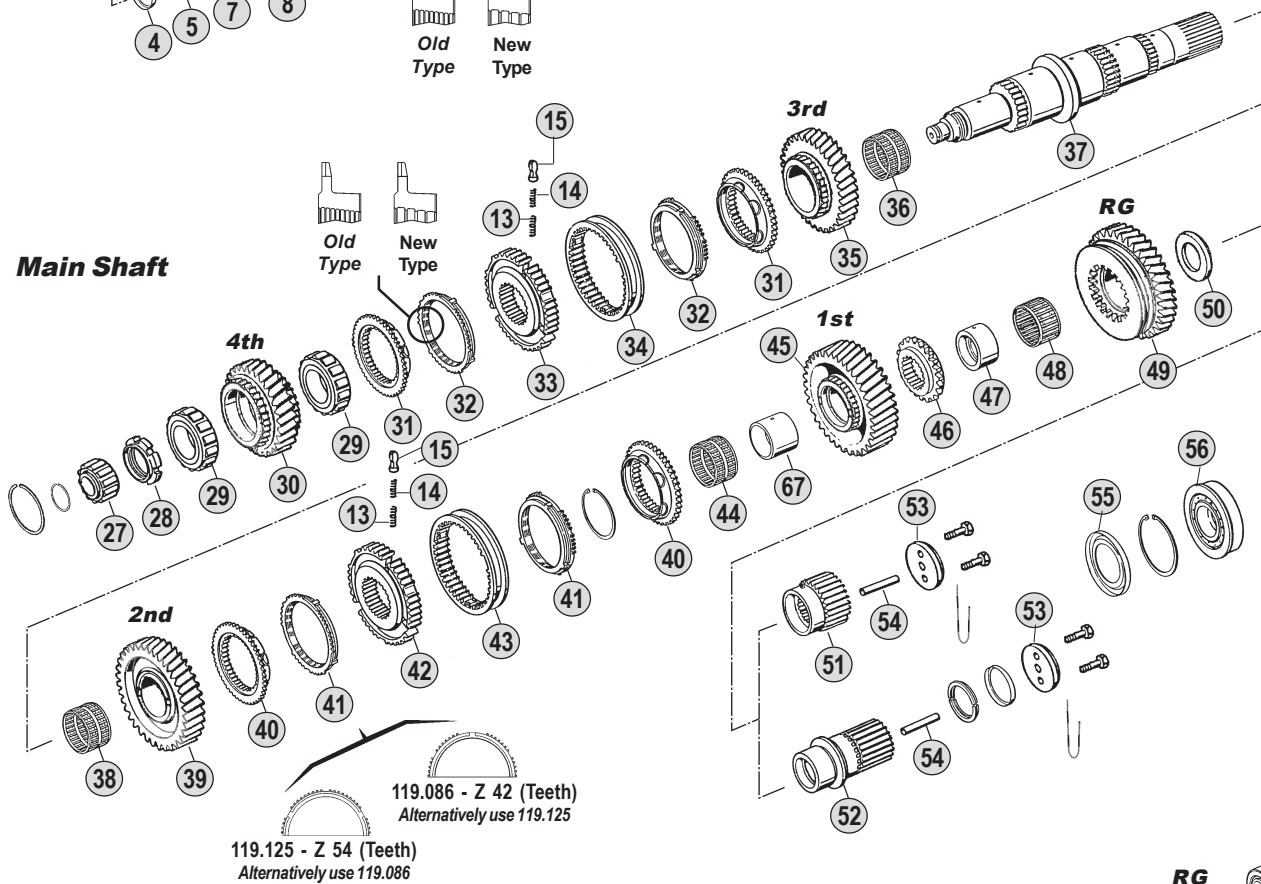
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

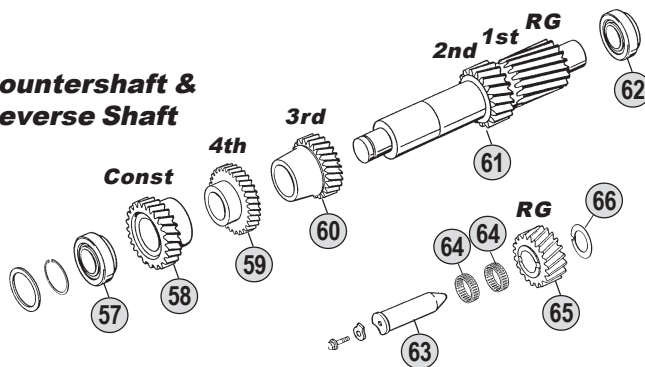
**Main Shaft**



**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S130</b>	A: 10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	VOLVO no.					16S130 (1286)	16S160 (1297)				
1		1297 302 082	1526687	Front Cover	1	L=190-D=66	●	●					
2		0734 310 386	1526688	Oil Seal 55x75x8	1	55x75x8	●	●					
3	<b>280.348</b>	1295 202 041	1526685	Oil Pump	1		●	●					
4	169.754	0730 061 816	1526683	Securing Ring	1		●	●					
4	169.755	0730 062 579		Securing Ring	1	S.4,20 mm	●	●					
5		0730 103 244	1526673	Split Ring T.4,30 mm	1	S.4,30 mm (2)	●	●					
5		0730 103 935	1526682	Split Ring T.3,80 mm	1	S.3,80 mm (2)	●	●					
5		0730 105 156		Split Ring T.4,00 mm	1	S.4,00 mm (3)	●	●					
5		0730 105 154		Split Ring T.3,80 mm	1	S.3,80 mm (3)	●	●					
6	130.305	0750 118 131	1526672	Bearing D.80x150x27,50	1		●	●					
7	137.082	0735 320 786	1526694	Needle Cage D.88x96x24,50	2		●						
7	137.153	0735 320 896	1662581	Needle Cage D.88x96x29	2			●					
8	<b>145.276</b>	1295 302 071	1526693	Constant Gear 28 T	1		●		AC				
8	145.489	1295 302 070		Constant Gear 30 T	1		●		B				
8	145.541	1295 302 122		Constant Gear 29 T	1		●		D				
8	<b>145.466</b>	1297 302 177		Constant Gear 30 T	1			●	B				
8	<b>145.406</b>	1297 302 176	1662513	Constant Gear 28 T	1			●	C				
8	<b>145.405</b>	1297 302 250		Constant Gear 29 T	1			●	D				
8	<b>145.407</b>	1297 302 241		Constant Gear 26 T	1			●	E				
9	<b>109.072</b>	1295 304 278	1527438	Synchronizer Cone	1		●	●					
10	<b>119.084</b>	1295 304 004	1526697	Synchronizer Ring	2	Old Type	●	●					
10	<b>119.175</b>	1304 304 686		Synchronizer Ring	2	New Type	●	●					
11	102.251	1295 202 008	1527331	Input Shaft	1		●						
11		1297 202 054	1662583	Input Shaft	1			●					
11		1297 202 003		Input Shaft	1			●					
12		0635 470 012	1526684	Pin	1		●	●					
13	<b>156.037</b>	0732 040 385	6635322	Outer Spring De.6x34	3		●	●					
14	<b>156.036</b>	0732 040 386	6635323	Inner Spring De.3x34	3		●	●					
15	<b>160.116</b>	1240 304 278	6635324	Pressure Piece	3		●	●					
16	188.208	0730 062 323		Oil Tube	1		●	●					
17	<b>154.097</b>	1295 304 002	1526696	Sliding Sleeve	1		●	●					
18	<b>109.072</b>	1295 304 278	1527438	Synchronizer Cone	1		●	●					
27	137.081	0750 118 010	1526747	Roller Cage D.30x60x25,50	1		●						
27	137.113	0750 118 038	1662534	Roller Cage D.35x68x27,50	1			●					
28	187.412	0737 502 092	1526746	Grooved Nut M60x1,5	1		●	●					
29	137.083	0750 118 005	1526744	Roller Cage D.63x97,5x34,80	2		●						
29	137.157	0750 118 220	1662532	Roller Cage D.63x97,5x37,50	2			●					
30	<b>146.212</b>	1295 304 135	1526745	Gear 4th Speed 30 T	1		●		AC				
30	<b>146.356</b>	1295 304 136		Gear 4th Speed 28 T	1		●		B				
30	<b>146.454</b>	1295 304 236		Gear 4th Speed 26 T	1		●		D				
30	<b>146.384</b>	1297 304 267		Gear 4th Speed 28 T	1			●	B				
30	<b>146.318</b>	1297 304 260	1662533	Gear 4th Speed 30 T	1			●	C				
30	<b>146.315</b>	1297 304 318		Gear 4th Speed 26 T	1			●	D				
30	<b>146.294</b>	1297 304 413		Gear 4th Speed 29 T	1			●	E				
31	<b>109.072</b>	1295 304 278	1527438	Synchronizer Cone	2		●	●					

## Notes

- (2) To be coupled together with Fig. 4 - 0730 061 816  
 (3) To be coupled together with Fig. 4 - 0730 062 579  
 (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30)  
 Standard Syncro Ring Ø 192 mm ( Z 63 or 54)  
 Use items marked (6) together

## Date

03 / 2006

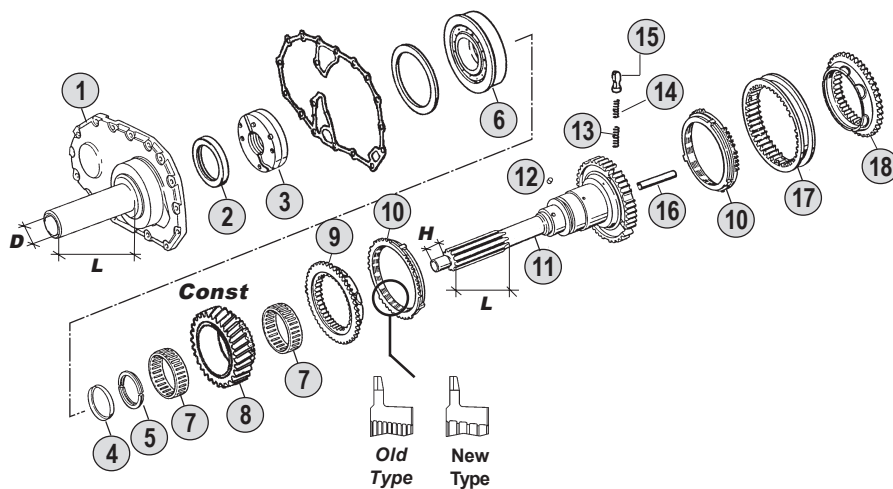
## Table

024 / A

Suitable To : **ZF**

**16S130 - 16S160**

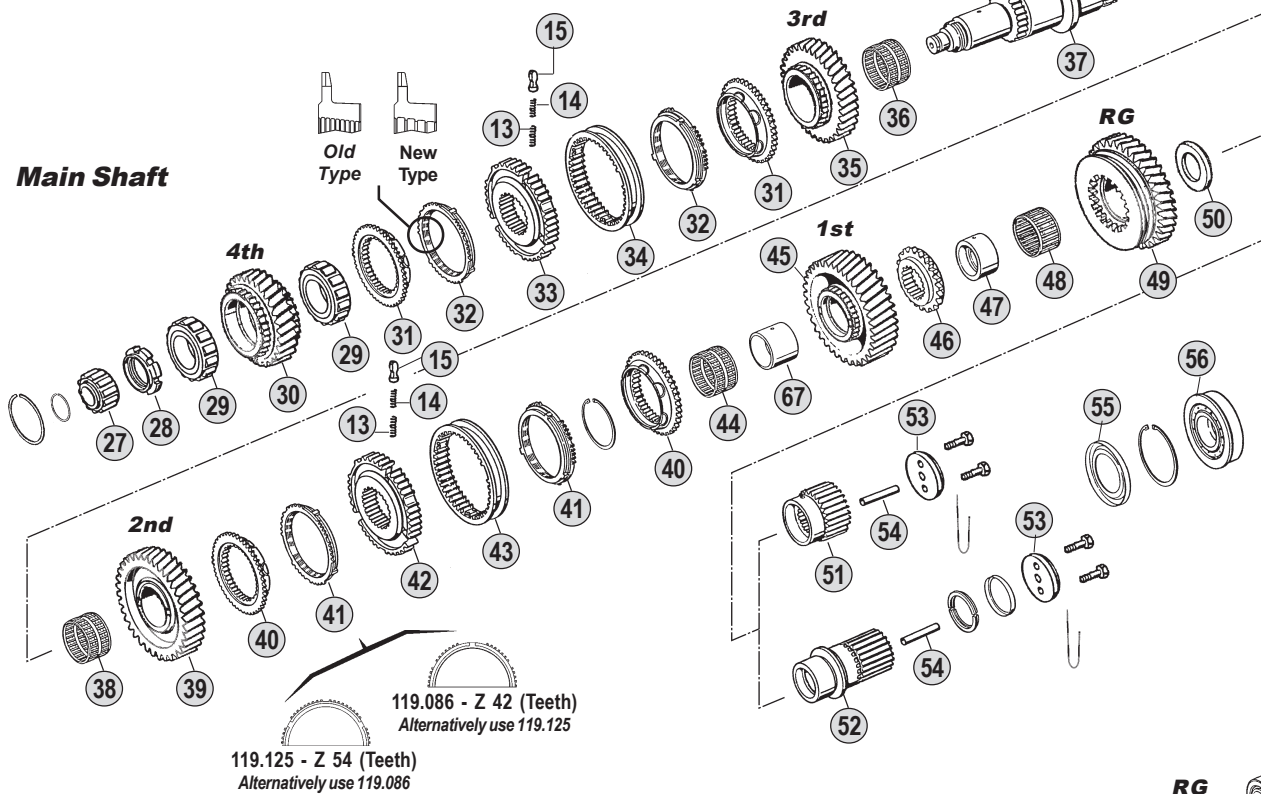
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

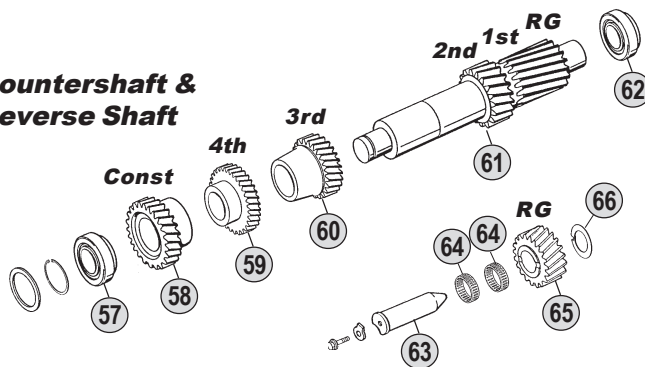
**Main Shaft**



**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S130</b>	A: 10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E: --
<b>16S160</b>	A: --	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E: 17,06-1,00



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	VOLVO no.					16S130 (1286)	16S160 (1297)					
32	119.084	1295 304 004	1526697	Synchronizer Ring	2	Old Type		●	●					
32	119.175	1304 304 686		Synchronizer Ring	2	New Type		●	●					
33	157.110	1297 304 031	1526733	Synchronizer Hub	1			●	●					
34	154.097	1295 304 002	1526696	Sliding Sleeve	1			●	●					
35		1295 304 269		Gear 3rd Speed 25 T	1		A	●						
35	145.495	1295 304 127		Gear 3rd Speed 32 T	1		BD	●						
35	145.277	1295 304 128	1526743	Gear 3rd Speed 34 T	1		C	●						
35	145.470	1297 304 266		Gear 3rd Speed 32 T	1		BD		●					
35	145.450	1297 304 261	1662530	Gear 3rd Speed 34 T	1		C		●					
35	145.377	1297 304 414		Gear 3rd Speed 34 T	1		E		●					
36	137.084	0735 320 418	1526731	Needle Cage D.82x90x49	1			●						
36	137.112	0735 320 451	1662531	Needle Cage D.82x90x60	1				●					
37		1295 304 273		Main Shaft	1		A	●						
37	103.075	1295 304 245	1527322	Main Shaft	1		BC	●						
37	103.140	1295 304 250		Main Shaft	1		D	●						
37	103.132	1297 304 181	1662519	Main Shaft	1		BC		●					
37	103.098	1297 304 193		Main Shaft	1		DE		●					
38	137.112	0735 320 451	1662531	Needle Cage D.82x90x60	1		A	●						
38	137.084	0735 320 418	1526731	Needle Cage D.82x90x49	1		BCD	●						
38	137.109	0735 320 452	1662520	Needle Cage D.82x90x55	1				●					
39		1295 304 271		Gear 2nd Speed 34 T	1		A	●						
39	145.501	1295 304 120		Gear 2nd Speed 37 T	1		BD	●						
39	145.278	1295 304 121	1526732	Gear 2nd Speed 38 T	1		C	●						
39	145.500	1297 304 269		Gear 2nd Speed 37 T	1		BD		●					
39	145.375	1297 304 442	1662521	Gear 2nd Speed 38 T	1		CE		●					
40	109.074	1297 304 196	6889868	Synchronizer Cone	2			●	●					
40	109.072	1295 304 278	1527438	Synchronizer Cone	2	(6)		●						
41	119.125	1296 304 135	6889866	Synchronizer Ring	2	Z 54 - Alt. use 119.086		●	●					
41	119.086	1246 304 278	6889866	Synchronizer Ring 42 T	2	Z 42 - Alt. use 119.125		●	●					
41	119.084	1295 304 004	1526697	Synchronizer Ring	2	(6)		●						
42	157.111	1297 304 195	6889865	Synchronizer Hub	1			●	●					
42	157.110	1297 304 031	1526733	Synchronizer Hub	1	(6)		●						
43	154.051	1257 304 020	6857262	Sliding Sleeve 1st-2nd Speed	1			●	●					
43	154.097	1295 304 002	1526696	Sliding Sleeve	1	(6)		●						
44	137.159	0735 320 548		Needle Cage D.70x78x46	1		A	●						
44	137.085	0735 320 496	1526736	Needle Cage D.70x78x55	1		BCD	●						
44	137.110	0735 320 487	1662523	Needle Cage D.82x90x68	1				●					
45		1295 304 270		Gear 1st Speed 41 T	1		A	●						
45	145.506	1295 304 203		Gear 1st Speed 44 T	1		BD	●						
45	145.279	1295 304 202	1527332	Gear 1st Speed 47 T	1		C	●						
45	145.507	1297 304 270		Gear 1st Speed 44 T	1		BD		●					
45	145.376	1297 304 441	1662524	Gear 1st Speed 47 T	1		CE		●					
46	109.184	1295 304 024	1526738	Engaging Ring	1		A	●						
46	109.075	1295 304 206	1527323	Engaging Ring	1		BCD	●						
46	109.178	1297 304 154	1662525	Engaging Ring	1			●						

## Notes

- (2) To be coupled together with Fig. 4 - 0730 061 816  
 (3) To be coupled together with Fig. 4 - 0730 062 579  
 (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30)  
 Standard Syncro Ring Ø 192 mm (Z 63 or 54)  
 Use items marked (6) together

## Date

03 / 2006

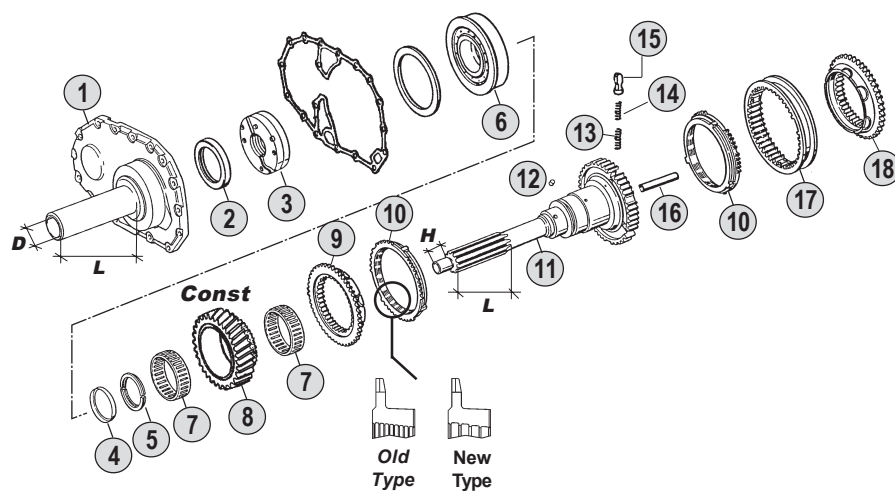
## Table

024 / A

Suitable To : **ZF**

**16S130 - 16S160**

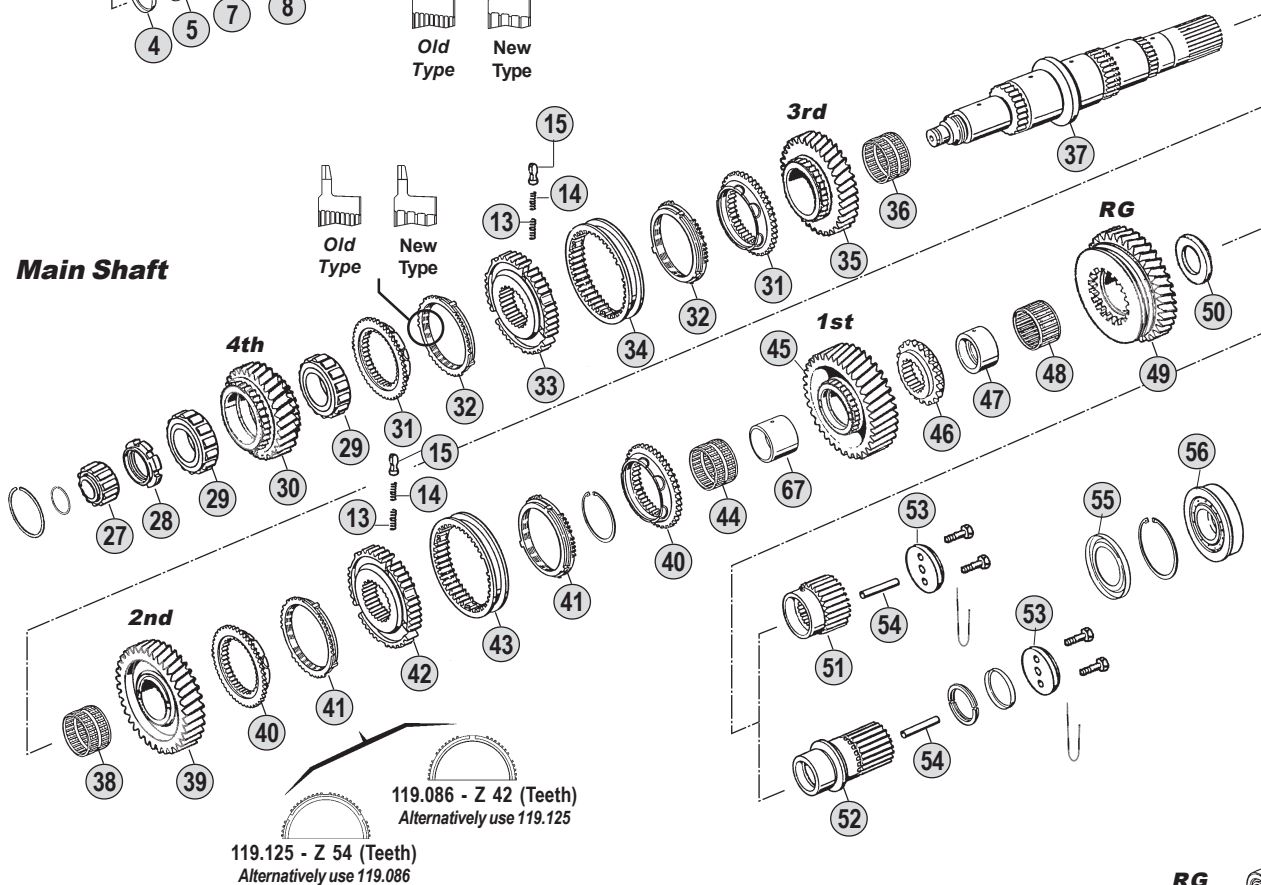
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

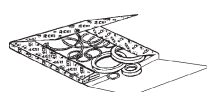
**Main Shaft**



**Kits**

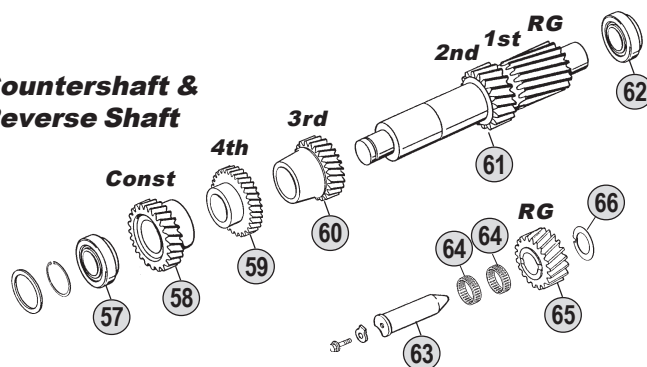


**Gasket Kit 72**



**Oil Seal Kit 71**

**Countershaft & Reverse Shaft**



**Ratios**

<b>16S130</b>	A: 10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	VOLVO no.					16S130 (1286)	16S160 (1297)					
47	117.203	1295 304 012	1526739	Bush D.60x75x38	1		ABC	●						
47	117.318	1297 304 034	1662526	Bush	1		BC		●					
48	137.086	0750 115 059	1526740	Needle Cage D.75x83x40	1			●						
48	137.111	0735 320 486	1662527	Needle Cage D.78x86x44	1				●					
49		1295 304 272		Reverse Gear 39 T	1		A	●						
49	147.138	1295 304 201		Reverse Gear 39 T	1		BD	●						
49	147.093	1295 304 200	1527434	Reverse Gear 38 T	1		C	●						
49	147.109	1297 304 149		Reverse Gear 39 T	1		BD		●					
49	147.140	1297 304 148	1662528	Reverse Gear 38 T	1		CE		●					
50	169.409	1295 304 240	1527324	Thrust Washer	1		ABC	●						
50	169.757	1297 304 381	1662529	Thrust Washer	1		BC		●					
51	157.112	1295 304 248	1527334	Sun Gear 27 T	1		ABC	●						
51	157.177	1297 304 187	1662539	Sun Gear 27 T	1		BC		●					
52	157.207	1295 304 251		Sun Gear 24 T	1		D	●						
52	157.198	1297 304 439		Sun Gear 24 T	1		DE		●					
53	188.076	1272 304 021	1527325	Stop Washer	1			●	●					
54		0730 061 842	1526762	Oil Tube	1			●	●					
55		1295 304 129	1526665	Oil Collector	1		ABC	●						
55		1297 301 004	1662580	Oil Collector	1		D	●						
55		1297 301 004	1662580	Oil Collector	1				●					
56	130.240	0750 118 153	1526658	Bearing D.60x130x31	1		ABC	●						
56		0750 118 137		Bearing 80x140x26	1		D	●						
56		0750 118 006	1662502	Bearing 65x140x33	1		BC		●					
56		0750 118 180		Bearing 80x140x33	1		DE		●					
57	130.242	0750 117 010	1526724	Bearing D.50,80x100x35	1			●	●					
58	146.210	1295 303 101	1526729	Constant Gear 34 T	1		AC	●						
58	146.354	1295 303 036		Constant Gear 31 T	1		B	●						
58	146.457	1295 303 060		Constant Gear 32 T	1		D	●						
58	146.383	1297 303 074		Constant Gear 31 T	1		B		●					
58	146.322	1297 303 066	1662517	Constant Gear 34 T	1		C		●					
58	146.319	1297 303 098		Constant Gear 32 T	1		D		●					
58	146.321	1297 303 086		Constant Gear 35 T	1		E		●					
59	146.209	1295 303 027	1526728	Gear 4th Speed 31 T	1		AC	●						
59	146.413	1295 303 028		Gear 4th Speed 34 T	1		B	●						
59	146.461	1295 303 094		Gear 4th Speed 35 T	1		D	●						
59	146.382	1297 303 072		Gear 4th Speed 34 T	1		B		●					
59	146.381	1297 303 065	1662518	Gear 4th Speed 31 T	1		C		●					
59	146.415	1297 303 097		Gear 4th Speed 35 T	1		D		●					
59	146.416	1297 303 123		Gear 4th Speed 32 T	1		E		●					
60		1295 303 071		Gear 3rd Speed 36 T	1		A	●						
60	146.355	1295 303 025		Gear 3rd Speed 28 T	1		BD	●						
60	146.211	1295 303 026	1526727	Gear 3rd Speed 25 T	1		C	●						
60	146.357	1297 303 073		Gear 3rd Speed 28 T	1		BD		●					
60	146.421	1297 303 067	1662516	Gear 3rd Speed 25 T	1		C		●					
60	146.422	1297 303 132		Gear 3rd Speed 26 T	1		E		●					

## Notes

- (2) To be coupled together with Fig. 4 - 0730 061 816  
 (3) To be coupled together with Fig. 4 - 0730 062 579  
 (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30)  
 Standard Syncro Ring Ø 192 mm ( Z 63 or 54)  
 Use items marked (6) together

## Date

03 / 2006

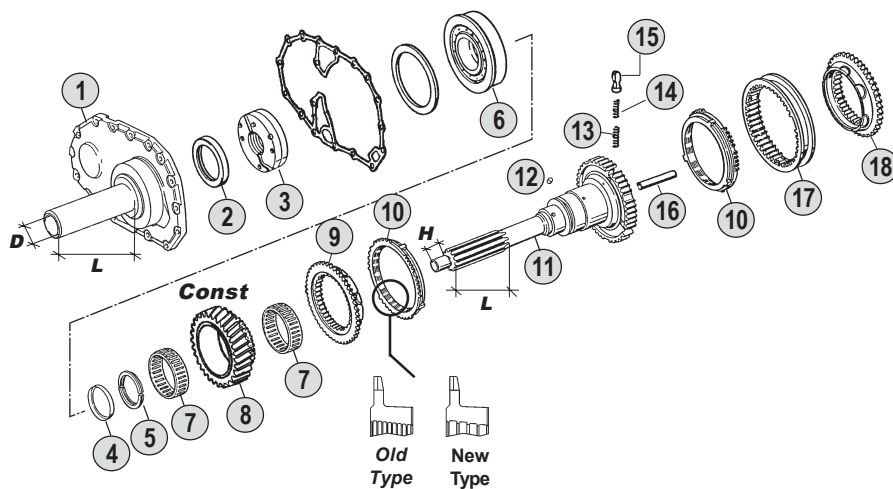
## Table

024 / A

Suitable To : **ZF**

**16S130 - 16S160**

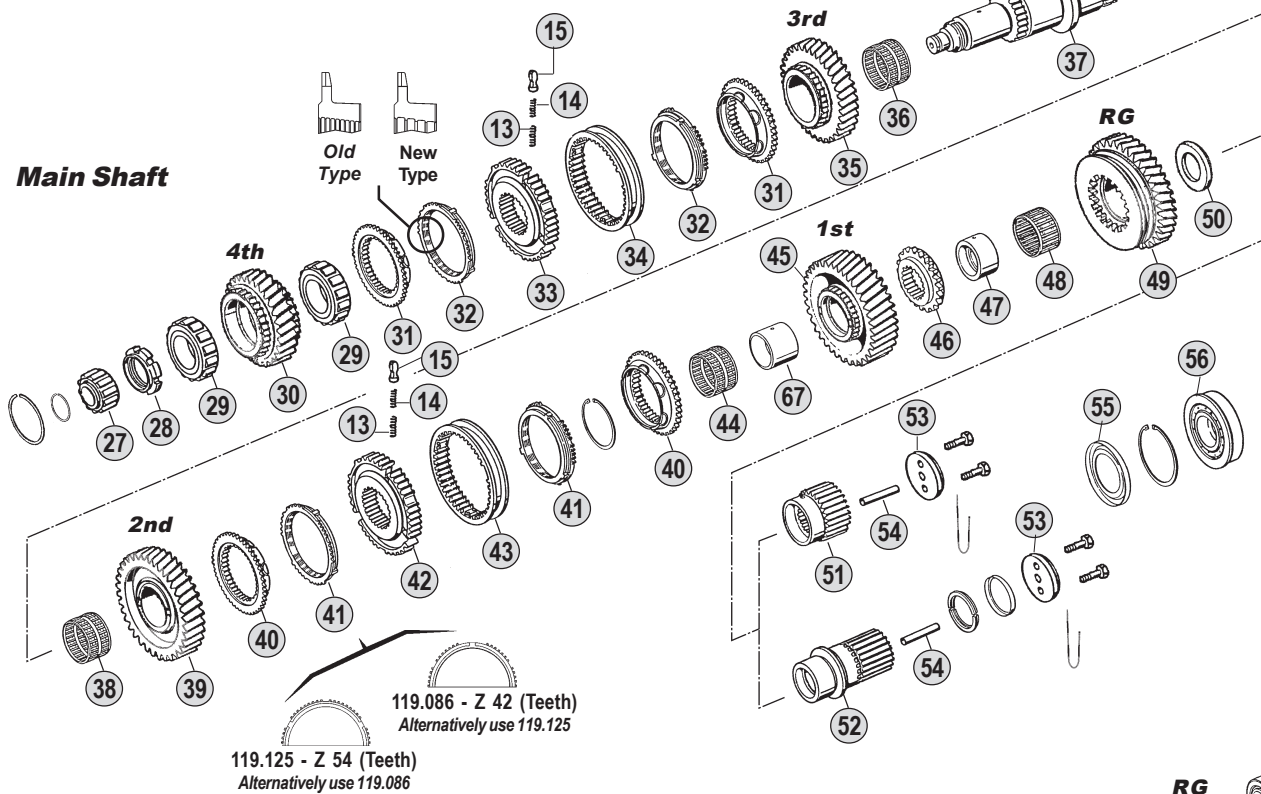
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 68</b>	<b>Kit 69</b>	<b>Kit 70</b>

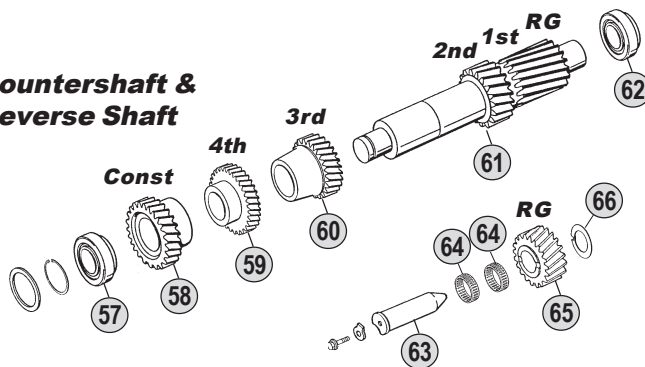
**Main Shaft**



**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

<b>16S130</b>	A: 10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E: --
<b>16S160</b>	A: --	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E: 17,06-1,00



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	VOLVO no.					16S130 (1286)	16S160 (1297)			
61		1295 303 072		Countershaft	1		A	●				
61	105.119	1295 303 067		Countershaft 19-23 T	1		BD	●				
61	105.060	1295 303 066	1527344	Countershaft 17-20 T	1		C	●				
61	105.092	1297 303 075		Countershaft 19-23 T	1		BD		●			
61	105.093	1297 303 140	1662514	Countershaft 17-20 T	1		CE		●			
62	130.243	0750 117 008	11062	Bearing D.50x110x42	1			●				
62	130.308	0750 117 009	1662515	Bearing D.49,2x103,1x43,6	1				●			
63	107.108	1295 305 056	1662509	Reverse Gear Pin	1			●	●			
64	137.007	0750 115 011	1526667	Needle Cage D.45x53x21	2			●	●			
65	147.153	1297 305 003		Reverse Gear 21 T	1		A	●				
65	147.133	1295 305 051		Reverse Gear 21 T	1		BD	●				
65	147.094	1295 305 052	1527321	Reverse Gear 24 T	1		C	●				
65	147.133	1295 305 051		Reverse Gear 21 T	1		BD		●			
65	147.094	1295 305 052	1527321	Reverse Gear 24 T	1		CE		●			
66	169.234	0730 150 064	6635283	Thrust Washer	1			●	●			
67	117.246	1297 304 035	1662522	Bush	1				●			
68	198.339	1268 298 938		Spring Slide Set	1			●	●			
69	198.564	CEI 198564		Spring Slide Set	1			●	●			
70	198.842	1295 298 933		Spring Slide Set	1			●	●			
71	198.428	1295 298 960		Oil Seal Ring Kit	1			●	●			
72	198.427	1295 298 915		Gasket Kit	1			●	●			

## Notes

- (2) To be coupled together with Fig. 4 - 0730 061 816  
 (3) To be coupled together with Fig. 4 - 0730 062 579  
 (6) Old Type. Old Syncro Ring Ø 175.5 mm ( Z 57 or 30)  
 Standard Syncro Ring Ø 192 mm (Z 63 or 54)  
 Use items marked (6) together

## Date

03 / 2006

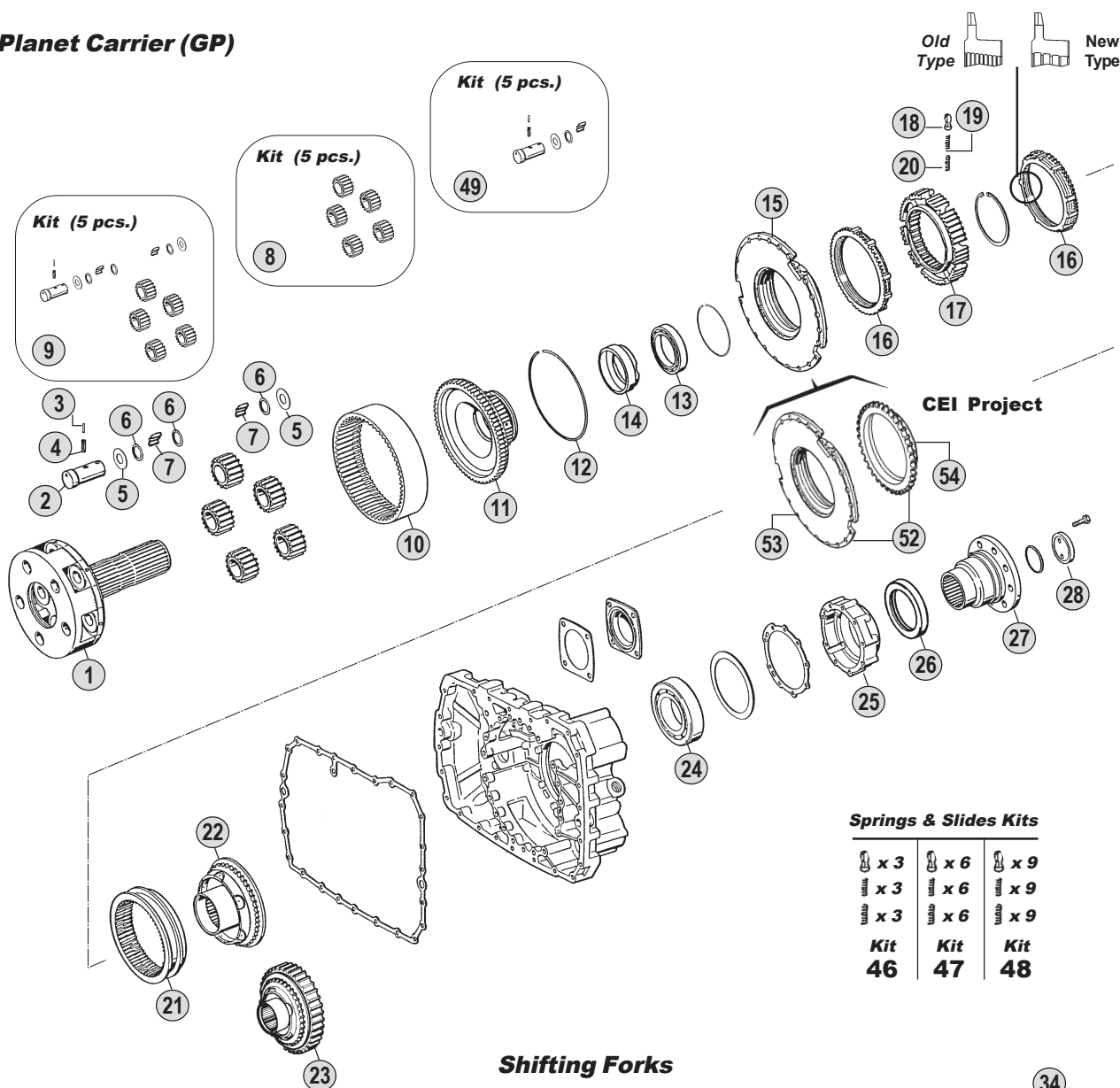
## Table

024 / A

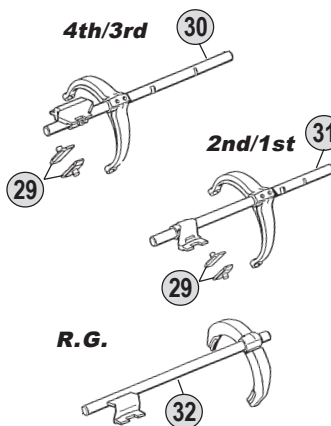
Suitable To : **ZF**

**16S130 - 16S160**

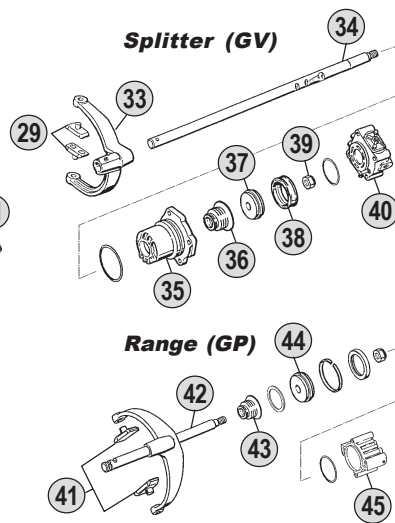
**Planet Carrier (GP)**



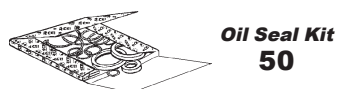
**Shifting Forks**



**Splitter (GV)**



**Kits**



**Ratios**

<b>16S130</b>	A: 10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	VOLVO no.					16S130 (1286)	16S160 (1297)			
1	190.169	1295 232 044	1699046	Planetary Carrier	1		ABC	●				
1	190.395	1297 232 045		Planetary Carrier	1		D	●				
1	190.396	1297 232 039	1662584	Planetary Carrier	1		BC	●				
1	190.395	1297 232 045		Planetary Carrier	1		DE	●				
2	107.089	1269 332 036	1526836	Planet Shaft	5		ABC	●				
2	107.163	1297 332 109	1662558	Planet Shaft	5		D	●				
2	107.163	1297 332 109	1662558	Planet Shaft	5			●				
3	160.191	0631 329 017	1699048	Lock Pin D.3x24	5			● ●				
4	160.192	0631 329 050	1699047	Lock Pin D.5x24	5			● ●				
5	169.408	0501 305 887	1526834	Thrust Washer D.29x57,50x1,50	10		ABC	●				
5	169.753	0501 306 212	1662556	Thrust Washer D.29x64x1,5	10		D	●				
5	169.753	0501 306 212	1662556	Thrust Washer D.29x64x1,5	10			●				
6	169.410	0730 103 846	1526833	Spacer Ring D.29x39x1,00	15			● ●				
7	171.016	0735 470 057	1526835	Roller Set D.6x14,75 (180 pcs)	180		ABC	●				
7	171.045	0750 119 109	1662557	Roller Set D.10x16,80 (120 pcs)	120		D	●				
7	171.045	0750 119 109	1662557	Roller Set D.10x16,80 (120 pcs)	120			●				
8	198.357	1295 232 027	1527358	Planetary Gear Set (5 pcs)	1		ABC	●				
8	198.810	1297 232 024		Planetary Gear Set (5 pcs)	1		D	●				
8	198.803	1297 232 023	1662555	Planetary Gear Set (5 pcs)	1		BC	●				
8	198.810	1297 232 024		Planetary Gear Set (5 pcs)	1		DE	●				
9	198.562	1296 298 904		Planetary Gear Set	1		ABC	●				
9	198.704	1297 298 912		Planetary Gear Set	1		BC	●				
9		1297 298 919		Planetary Gear Set	1		DE	●				
10	123.162	1295 332 053	1526844	Crown Gear 83 T	1		ABC	●				
10	123.208	1295 332 086		Crown Gear 86 T	1		D	●				
10	123.217	1297 332 080	1662568	Crown Gear 83 T	1		BC	●				
10	123.208	1295 332 086		Crown Gear 86 T	1		DE	●				
11	150.112	1295 332 021	1526837	Flange Gear 83 T	1		ABC	●				
11	150.137	1297 332 035		Flange Gear 86 T	1		D	●				
11	150.138	1297 332 017	1662559	Flange Gear 83 T	1		BC	●				
11	150.137	1297 332 035		Flange Gear 86 T	1		DE	●				
12	111.129	0730 505 055	1526845	Locking Wire	1		ABC	●				
12	111.198	0730 505 056		Locking Wire	1		D	●				
12	111.129	0730 505 055	1526845	Locking Wire	1		BC	●				
12	111.198	0730 505 056		Locking Wire	1		DE	●				
13	130.244	0750 116 166	1526874	Bearing D.75x105x16	1		ABC	●				
13	130.310	0750 116 165	1662561	Bearing D.80x110x16	1		D	●				
13	130.310	0750 116 165	1662561	Bearing D.80x110x16	1			●				
14		1297 332 002	1662560	Ring	1		D	●				
14		1297 332 002	1662560	Ring	1			●				
15	198.358	1296 233 006	1527360	Synchronizer Cone	1			● ●				
16	119.085	1296 333 022		Synchronizer Ring	2	Old Type		● ●				
16	119.172	1296 333 045	1527458	Synchronizer Ring	2	New Type		● ●				
17	157.113	1296 333 002	1526457	Synchronizer Hub	1			● ●				
18	160.116	1240 304 278	6635324	Pressure Piece	9			● ●				

Notes

Date

03 / 2006

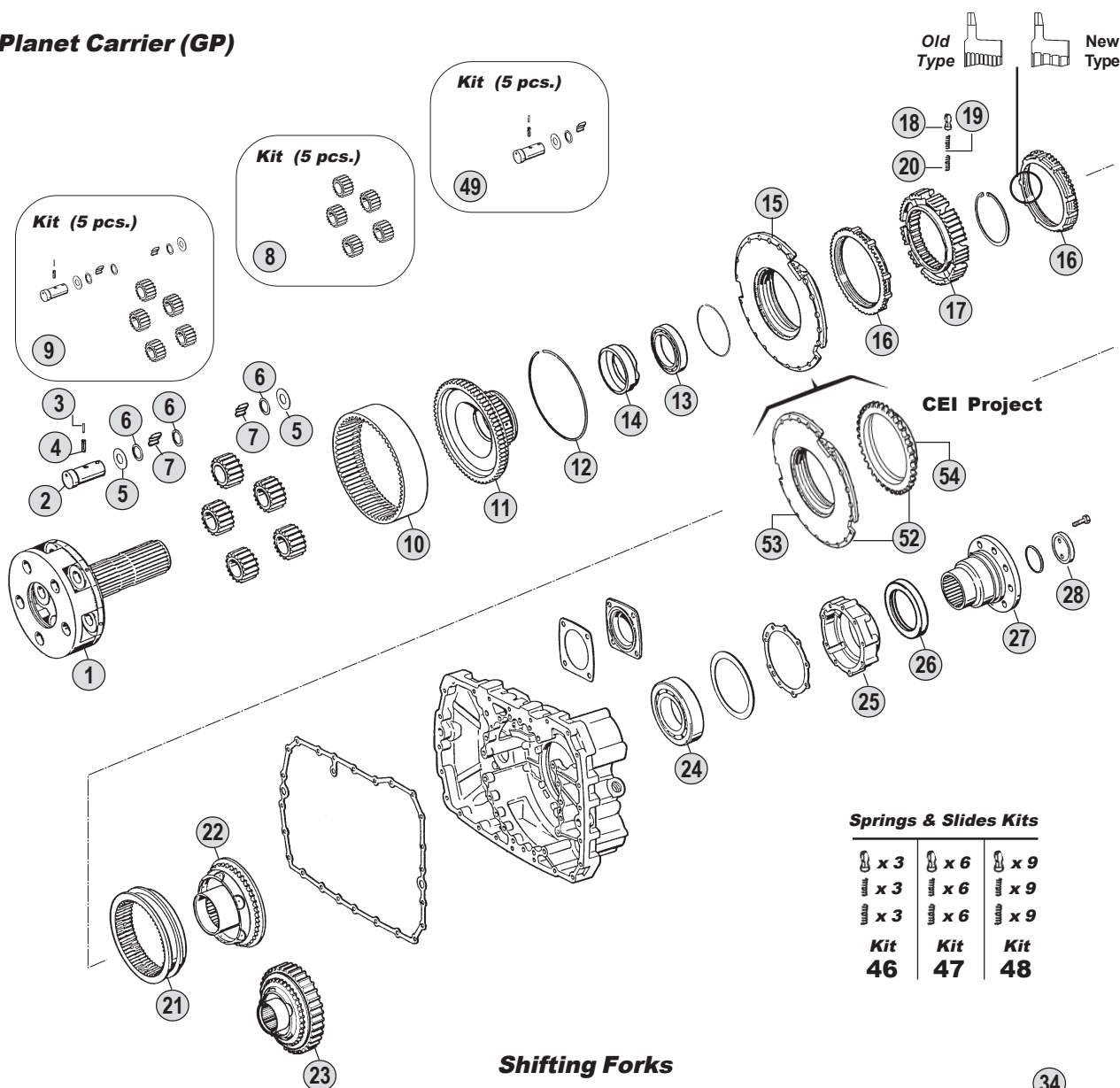
Table

024 / B

Suitable To : **ZF**

**16S130 - 16S160**

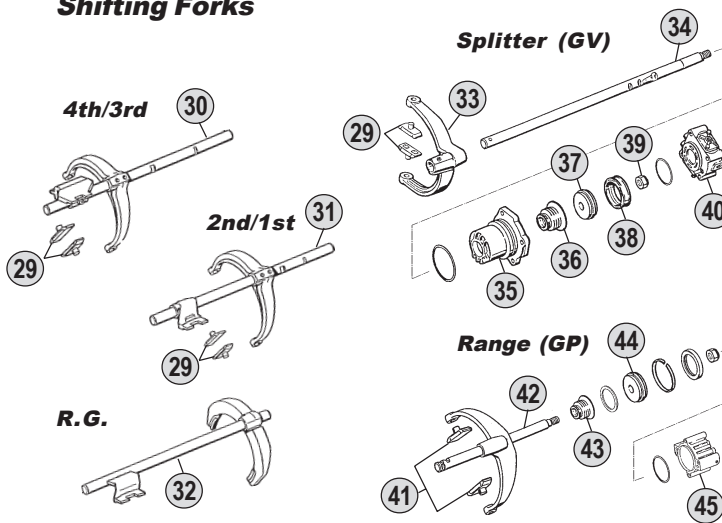
**Planet Carrier (GP)**



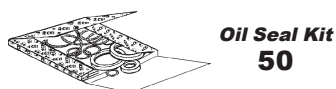
**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

**Shifting Forks**



**Kits**



**Ratios**

<b>16S130</b>	A: 10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00

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16S130 (1286)  
16S160 (1297)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.					VOLVO no.	16S130 (1286)	16S160 (1297)				
19	156.036	0732 040 386	6635323	Inner Spring De.3x34	9		●	●					
20	156.037	0732 040 385	6635322	Outer Spring De.6x34	9		●	●					
21	154.098	1296 333 023	1527459	Sliding Sleeve	1		●	●					
22	198.359	1295 233 025	6885660	Synchronizer Cone (36 Spl.)	1		ABC	●					
22	198.374	1313 233 001	1662575	Synchronizer Cone (38 Spl.)	1		D	●					
22	198.374	1313 233 001	1662575	Synchronizer Cone (38 Spl.)	1			●					
23		1297 333 117		Synchronizer Cone	1	With Retarder	ABC	●					
23		1297 333 118		Synchronizer Cone	1	With Retarder	D	●					
23		1297 333 118		Synchronizer Cone	1	With Retarder		●					
24	130.245	0750 116 002	19499	Bearing D.90x160x30	1			●	●				
25		1296 301 067	1526826	Cover	1			●	●				
25	128.098	1315 301 220	1662553	Cover	1			●	●				
26		0750 111 341	1526828	Oil Seal 105x130x12	1			●	●				
27		1295 238 003		Output Flange	1	D.165-8 H.	ABC	●					
27		1295 338 061		Output Flange	1	D.180-4 H.	ABC	●					
27	197.051	1295 338 014		Output Flange	1	D.180-10 H.	ABC	●					
27		1295 338 059		Output Flange	1	D.180-10 H.	ABC	●					
27	197.074	1295 338 016		Output flange	1	D.204-4 H.	ABC	●					
27		1295 338 028	6885664	Output Flange	1	D.204-4 H.	ABC	●					
27		1297 338 041		Output Flange	1	D.180-4 H.	D	●					
27		1297 338 010	1672060	Output Flange	1	D.180-10 H.	D	●					
27		1297 338 041		Output Flange	1	D.180-4 H.			●				
27		1297 338 038		Output Flange	1	D.180-10 H.			●				
27		1297 338 010	1672060	Output Flange	1	D.180-10 H.			●				
28	188.077	1295 332 051	6889862	Stop Washer	1			●	●				
28		1295 332 064		Stop Washer	1	Only with 1295 238 003		●					
29	141.068	1295 306 132	1662543	Bronze Slide	2			●	●				
30		1295 206 219		Fork	1			●					
30		1295 206 212		Fork	1			●					
30	198.362	1295 206 213	1527378	Fork	1			●					
30		1297 206 103		Fork	1				●				
30		1297 206 104	1662542	Fork	1				●				
31		1295 206 223		Fork	1			●					
31		1295 206 217		Fork	1			●					
31		1295 206 214	6889867	Fork	1			●					
31		1295 206 215		Fork	1			●					
31		1297 206 106		Fork	1				●				
31		1297 206 105	1662541	Fork	1				●				
32		1295 206 250		Fork	1			●					
32		1295 206 249		Fork	1			●					
32	198.360	1295 206 255	1527379	Fork	1			●					
32		1295 206 254		Fork	1			●					
32		1297 206 174		Fork	1				●				
32		1297 206 175		Fork	1				●				
33		1313 312 002	1662550	Fork	1			●	●				

Notes

Date

03 / 2006

Table

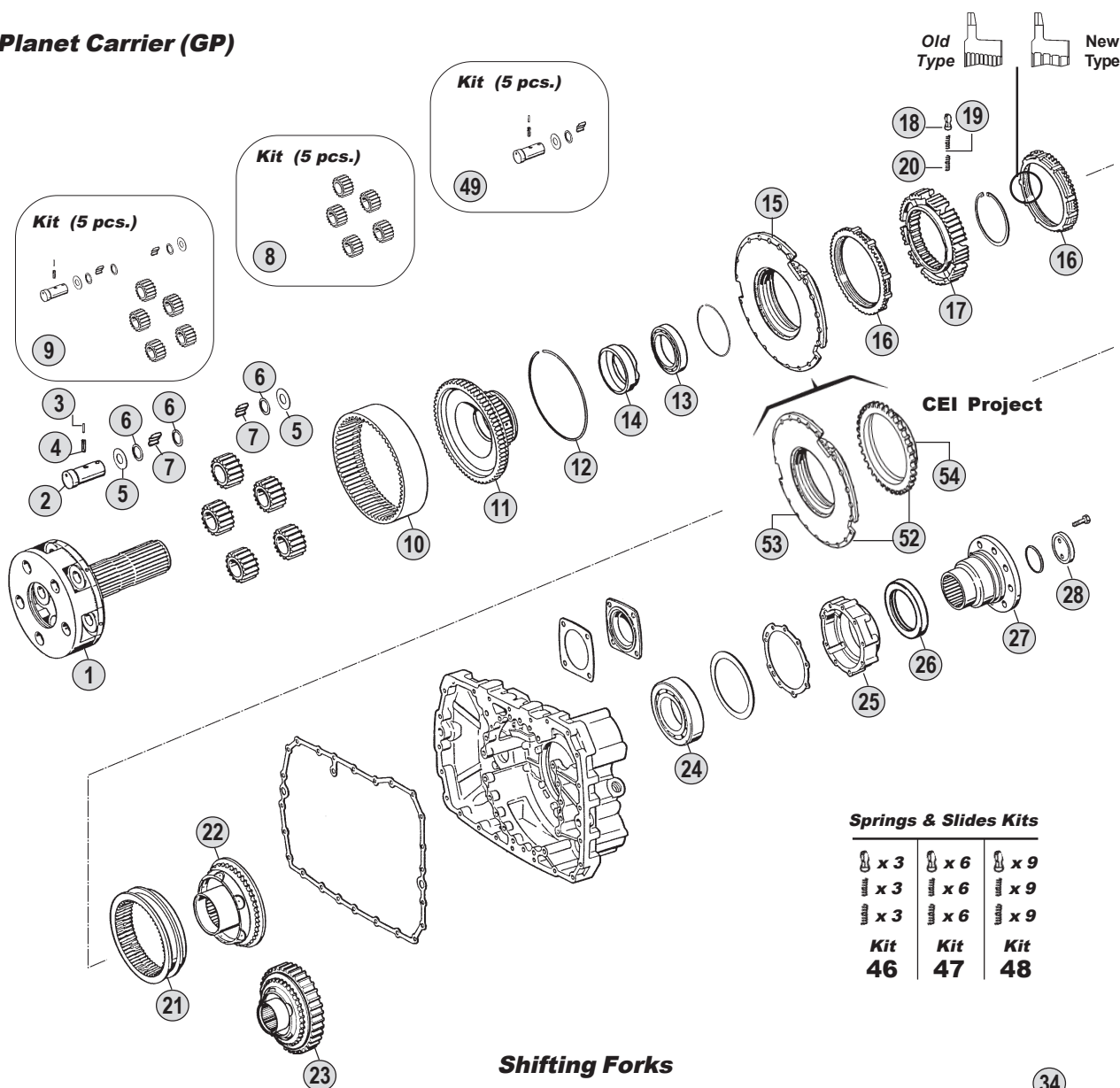
024 / B

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Suitable To : **ZF**

**16S130 - 16S160**

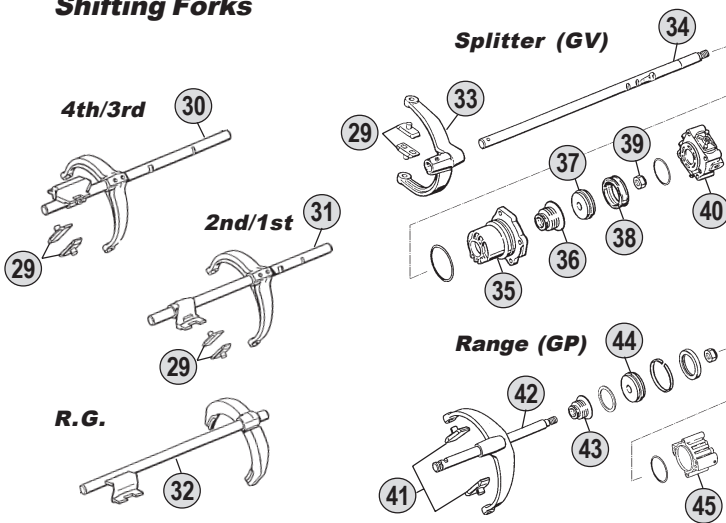
**Planet Carrier (GP)**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 46</b>	<b>Kit 47</b>	<b>Kit 48</b>

**Shifting Forks**



**Kits**



**Ratios**

<b>16S130</b>	A: 10,14-0,72	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:--
<b>16S160</b>	A:--	B: 11,46 - 0,85	C: 13,68 - 1,00	D: 14,29 - 0,82	E:17,06-1,00



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16S130 (1286)  
16S160 (1297)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	VOLVO no.					16S130 (1286)	16S160 (1297)				
34	149.172	1295 312 018	1526820	Selector rod	1			●					
34		1297 312 008	1662549	Selector Rod	1				●				
35	<b>132.046</b>	1296 312 042	1526816	Cylinder	1			●	●				
36	139.331	0750 112 034	1526817	Cap Collar D.25x38x14,2	1			●	●				
37	189.421	1296 312 053	1526818	Piston	1			●	●				
38		0750 112 089	1527355	Ring 53x63x16,2	1			●	●				
39		0737 006 095		Nut	1			●	●				
40		0750 132 032	1662551	Cylinder	1			●	●				
40		0750 132 033		Cylinder	1			●	●				
40	280.350	1295 212 008		Cylinder	1			●	●				
40		1295 212 009	1527454	Cylinder	1				●				
41	<b>141.085</b>	1296 334 004	1526864	Bronze Slide	2			●	●				
42	149.171	1312 234 002	1662403	Fork Lever	1			●	●				
43	139.331	0750 112 034	1526817	Cap Collar D.25x38x14,2	1			●	●				
44	189.422	1296 334 039	1527462	Piston	1			●	●				
45	<b>132.047</b>	1295 334 075	1527363	Cylinder	1			●	●				
46	<b>198.339</b>	1268 298 938		Spring Slide Set	1			●	●				
47	<b>198.564</b>	CEI 198564		Spring Slide Set	1			●	●				
48	<b>198.842</b>	1295 298 933		Spring Slide Set	1			●	●				
49	198.447	CEI 198447		Gear Set	1		ABC	●					
50	<b>198.428</b>	1295 298 960		Oil Seal Ring Kit	1			●	●				
51	<b>198.427</b>	1295 298 915		Gasket Kit	1			●	●				
52	<b>198.856</b>	CEI 198856		Synchronizer cone kit	1	Can repl. fig. 15		●	●				
53	<b>135.128</b>	CEI 135128		Saddle Plate	1	Use with fig. 54		●	●				
54	<b>109.174</b>	1296 333 050		Synchronizer Cone	1	Use with fig. 53		●	●				

Notes

Date

03 / 2006

Table

024 / B

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suitable to :

**Z.F.****EcoSplit I****From 16S112/1 to 16S190/1****Application**

	16S112/1 (1296)	16S130/1 (1295)	16S160/1 (1297)	16S190/1 (1297)
<b>MERCEDES</b>				
<b>MAN</b>				
<b>IVECO</b>				
<b>RVI</b>				
<b>DAF</b>				
<b>VOLVO</b>				

**Ratios**

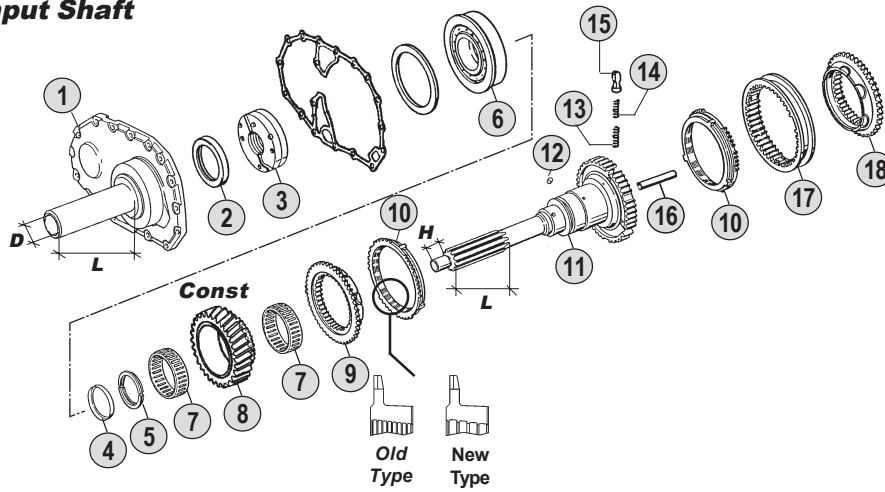
	R.10,14-0,72 <b>A</b>	R.11,46-0,85 <b>B</b>	R.13,68-1,00 <b>C</b>	R.14,29-0,82 <b>D</b>	R.17,06-1,00 <b>E</b>
<b>16S112/1</b>					
<b>16S130/1</b>					
<b>16S160/1</b>					
<b>16S190/1</b>					

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**ECO I**  
 16S190/1

Suitable To : **ZF**

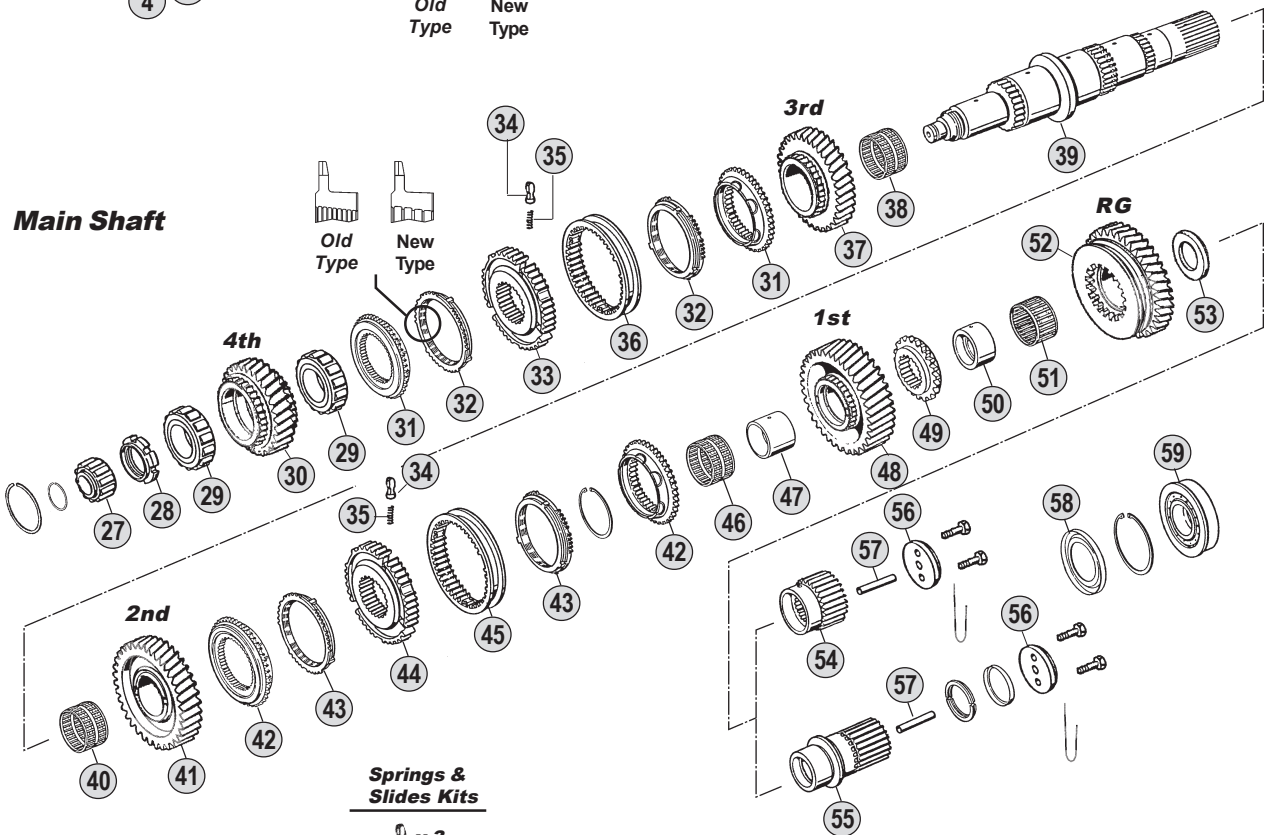
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 70</b>	<b>Kit 71</b>	<b>Kit 72</b>

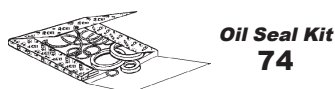
**Main Shaft**



**Springs & Slides Kits**

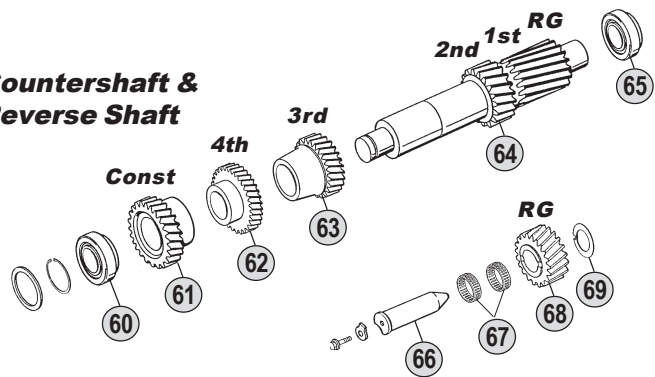
x 3
x 3
<b>Kit 73</b>

**Kits**



66

**Countershaft & Reverse Shaft**



**Ratios**

16S190/1 A :-- B : 11,46 - 0,85 C : 13,68 - 1,00 D : 14,29 - 0,82 E : 17,06 - 1,00

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					VOLVO no.	16S190/1 (1297)						
1		1297 302 082	1526687	Front Cover	1	L=190-D=66	●							
2		0734 310 386	1526688	Oil Seal 55x75x8	1		●							
3	<b>280.348</b>	1295 202 041	1526685	Oil Pump	1		●							
4	169.754	0730 061 816	1526683	Securing Ring	1		●							
4	169.755	0730 062 579		Securing Ring	1	S.4,20 mm	●							
5		0730 103 244	1526673	Split Ring T.4,30 mm	1	S.4,30 mm (3)	●							
5		0730 103 935	1526682	Split Ring T.3,80 mm	1	S.3,80 mm (3)	●							
5		0730 105 156		Split Ring T.4,00 mm	1	S.4,00 mm (4)	●							
5		0730 105 154		Split Ring T.3,80 mm	1	S.3,80 mm (4)	●							
6	130.305	0750 118 131	1526672	Bearing D.80x150x27,50	1		●							
7	137.153	0735 320 896	1662581	Needle Cage D.88x96x29	2		●							
8	<b>145.466</b>	1297 302 177		Constant Gear 30 T	1		●			B				
8	<b>145.406</b>	1297 302 176	1662513	Constant Gear 28 T	1		●			C				
8	<b>145.405</b>	1297 302 250		Constant Gear 29 T	1		●			D				
8	<b>145.407</b>	1297 302 241		Constant Gear 26 T	1		●			E				
9	<b>109.072</b>	1295 304 278	1527438	Synchronizer Cone	1		●							
10	<b>119.084</b>	1295 304 004	1526697	Synchronizer Ring	2	Old Type	●							
10	<b>119.175</b>	1304 304 686		Synchronizer Ring	2	New Type	●							
11		1297 202 054	1662583	Input Shaft	1		●							
12		0635 470 012	1526684	Pin	1		●							
13	<b>156.037</b>	0732 040 385	6635322	Outer Spring De.6x34	3		●							
14	<b>156.036</b>	0732 040 386	6635323	Inner Spring De.3x34	3		●							
15	<b>160.116</b>	1240 304 278	6635324	Pressure Piece	3		●							
16	188.208	0730 062 323		Oil Tube	1		●							
17	<b>154.097</b>	1295 304 002	1526696	Sliding Sleeve	1		●							
18	<b>109.072</b>	1295 304 278	1527438	Synchronizer Cone	1		●							
27	137.113	0750 118 038	1662534	Roller Cage D.35x68x27,50	1		●							
28	187.412	0737 502 092	1526746	Grooved Nut M60x1,5	1		●							
29	137.157	0750 118 220	1662532	Roller Cage D.63x97,5x37,50	2		●							
30	<b>146.384</b>	1297 304 267		Gear 4th Speed 28 T	1		●			B				
30	<b>146.318</b>	1297 304 260	1662533	Gear 4th Speed 30 T	1		●			C				
30	<b>146.315</b>	1297 304 318		Gear 4th Speed 26 T	1		●			D				
30	<b>146.294</b>	1297 304 413		Gear 4th Speed 29 T	1		●			E				
31	<b>109.114</b>	1297 304 369		Synchronizer Cone	2		●							
32	<b>119.119</b>	1297 304 402	3097026	Synchronizer Ring	2	Old Type	●							
32	<b>119.167</b>	1297 304 484	1662711	Synchronizer Ring	2	New Type	●							
33	157.140	1297 304 446		Synchronizer Hub	1		●							
34	<b>160.189</b>	1297 304 436	3121706	Pressure Piece	3		●							
35	<b>156.140</b>	0732 040 409	266459	Spring D.6,50x23,50	3		●							
36	<b>154.135</b>	1310 304 202	3097061	Sliding Sleeve	1		●							
37	<b>145.470</b>	1297 304 266		Gear 3rd Speed 32 T	1		●			BD				
37	<b>145.450</b>	1297 304 261	1662530	Gear 3rd Speed 34 T	1		●			C				
37	<b>145.377</b>	1297 304 414		Gear 3rd Speed 34 T	1		●			E				
38	137.112	0735 320 451	1662531	Needle Cage D.82x90x60	1		●							
39	<b>103.132</b>	1297 304 181	1662519	Main Shaft	1		●			BC				

## Notes

- (3) To be coupled together with Fig. 4 - 0730 061 816  
 (4) To be coupled together with Fig. 4 - 0730 062 579

## Date

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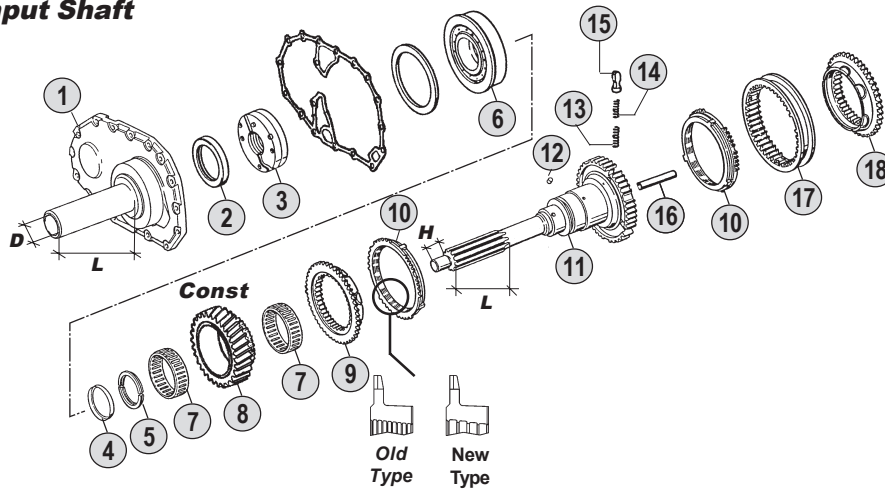
## Table

025 / A

Suitable To : **ZF**

**16S190/1**

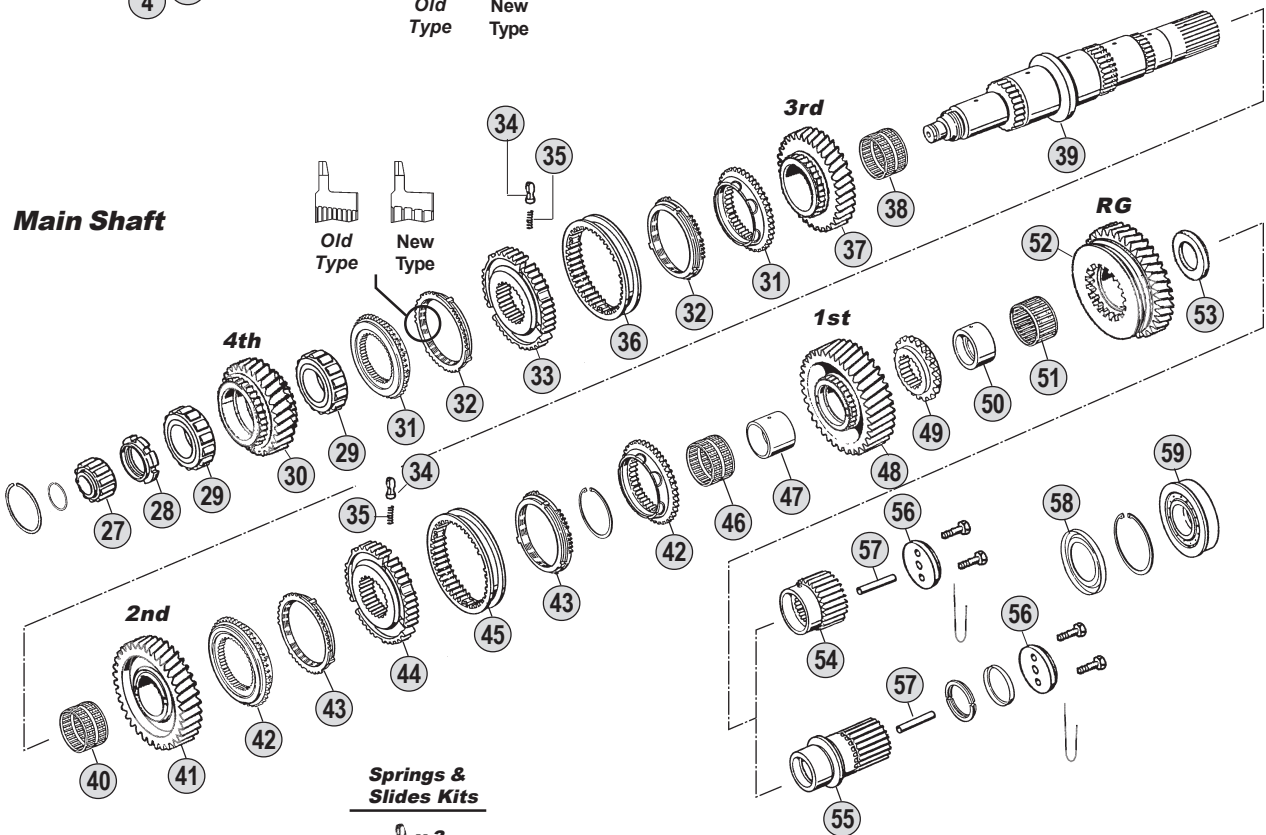
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 70</b>	<b>Kit 71</b>	<b>Kit 72</b>

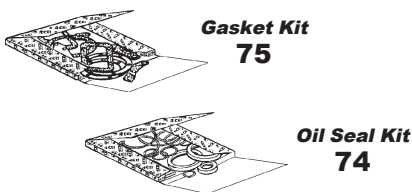
**Main Shaft**



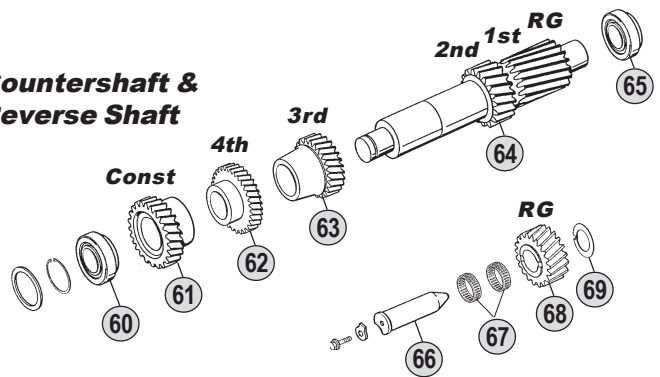
**Springs & Slides Kits**

x 3
x 3
<b>Kit 73</b>

**Kits**



**Countershaft & Reverse Shaft**



**Ratios**

16S190/1 A :-- B : 11,46 - 0,85 C : 13,68 - 1,00 D : 14,29 - 0,82 E : 17,06 - 1,00

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.										
39	103.098	1297 304 193				DE	●					
40	137.109	0735 320 452	1662520				●					
41	145.500	1297 304 269				BD	●					
41	145.375	1297 304 442	1662521			CE	●					
42	109.113	1297 304 371					●					
43	119.122	1297 304 401					●					
43	119.166	1297 304 485	3096856				●					
44	157.139	1297 304 445					●					
45	154.136	1297 304 450					●					
46	137.110	0735 320 487	1662523				●					
47	117.246	1297 304 035	1662522				●					
48	145.507	1297 304 270				BD	●					
48	145.376	1297 304 441	1662524			CE	●					
49	109.178	1297 304 154	1662525				●					
50	117.318	1297 304 034	1662526			BC	●					
51	137.111	0735 320 486	1662527				●					
52	147.109	1297 304 149				BD	●					
52	147.140	1297 304 148	1662528			CE	●					
53	169.757	1297 304 381	1662529			BC	●					
54	157.177	1297 304 187	1662539			BC	●					
55	157.198	1297 304 439				DE	●					
56	188.076	1272 304 021	1527325				●					
57		0730 061 842	1526762				●					
58		1297 301 004	1662580				●					
59		0750 118 006	1662502			BC	●					
59		0750 118 180				DE	●					
60	130.242	0750 117 010	1526724				●					
61	146.383	1297 303 074				B	●					
61	146.322	1297 303 066	1662517			C	●					
61	146.319	1297 303 098				D	●					
61	146.321	1297 303 086				E	●					
62	146.382	1297 303 072				B	●					
62	146.381	1297 303 065	1662518			C	●					
62	146.415	1297 303 097				D	●					
62	146.416	1297 303 123				E	●					
63	146.357	1297 303 073				BD	●					
63	146.421	1297 303 067	1662516			C	●					
63	146.422	1297 303 132				E	●					
64	105.092	1297 303 075				BD	●					
64	105.093	1297 303 140	1662514			CE	●					
65	130.308	0750 117 009	1662515				●					
66	107.108	1295 305 056	1662509				●					
67	137.007	0750 115 011	1526667				●					
68	147.133	1295 305 051				BD	●					
68	147.094	1295 305 052	1527321			CE	●					

## Notes

- (3) To be coupled together with Fig. 4 - 0730 061 816  
 (4) To be coupled together with Fig. 4 - 0730 062 579

## Date

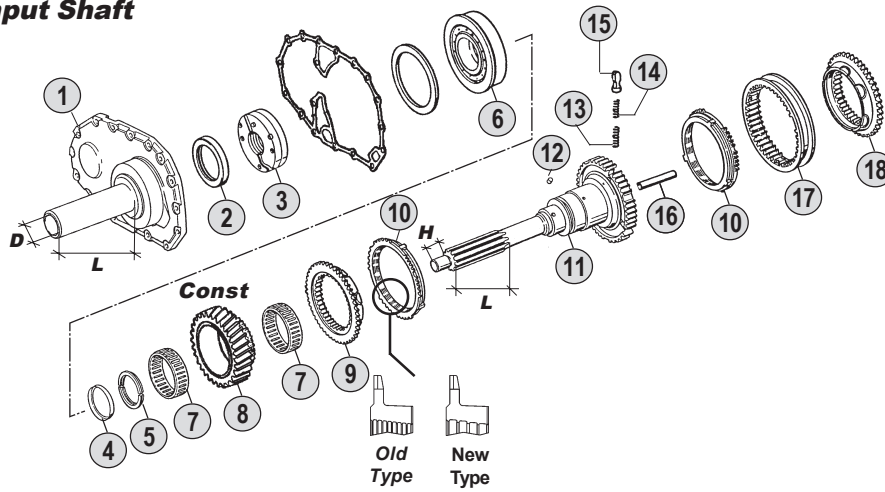
03 / 2006

## Table

025 / A

Suitable To : **ZF**

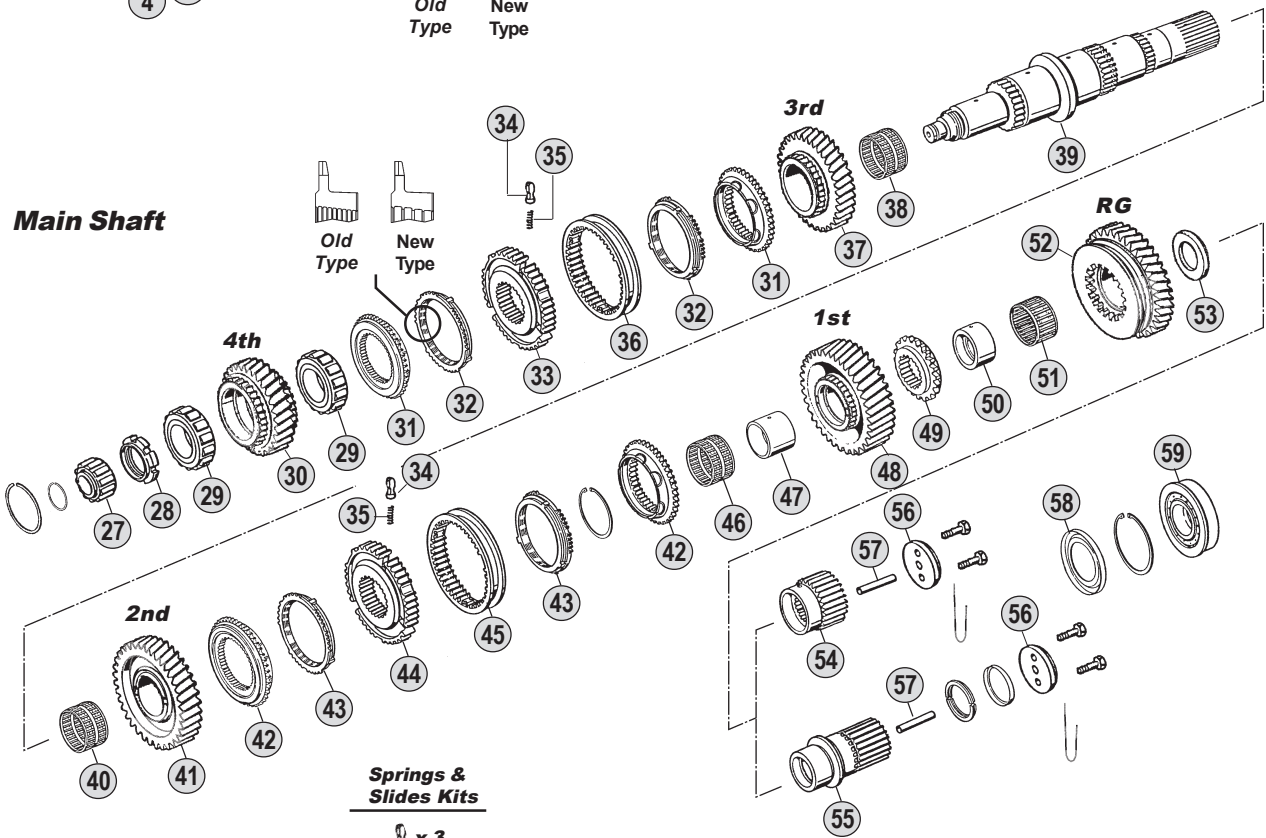
**Input Shaft**



**Springs & Slides Kits**

x 3	x 6	x 9
x 3	x 6	x 9
x 3	x 6	x 9
<b>Kit 70</b>	<b>Kit 71</b>	<b>Kit 72</b>

**Main Shaft**



**Springs & Slides Kits**

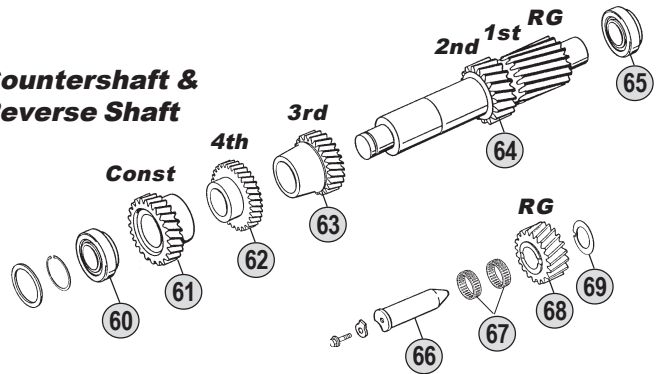
x 3
x 3
<b>Kit 73</b>

**Kits**



66

**Countershaft & Reverse Shaft**



**Ratios**

16S190/1 A :-- B : 11,46 - 0,85 C : 13,68 - 1,00 D : 14,29 - 0,82 E : 17,06 - 1,00

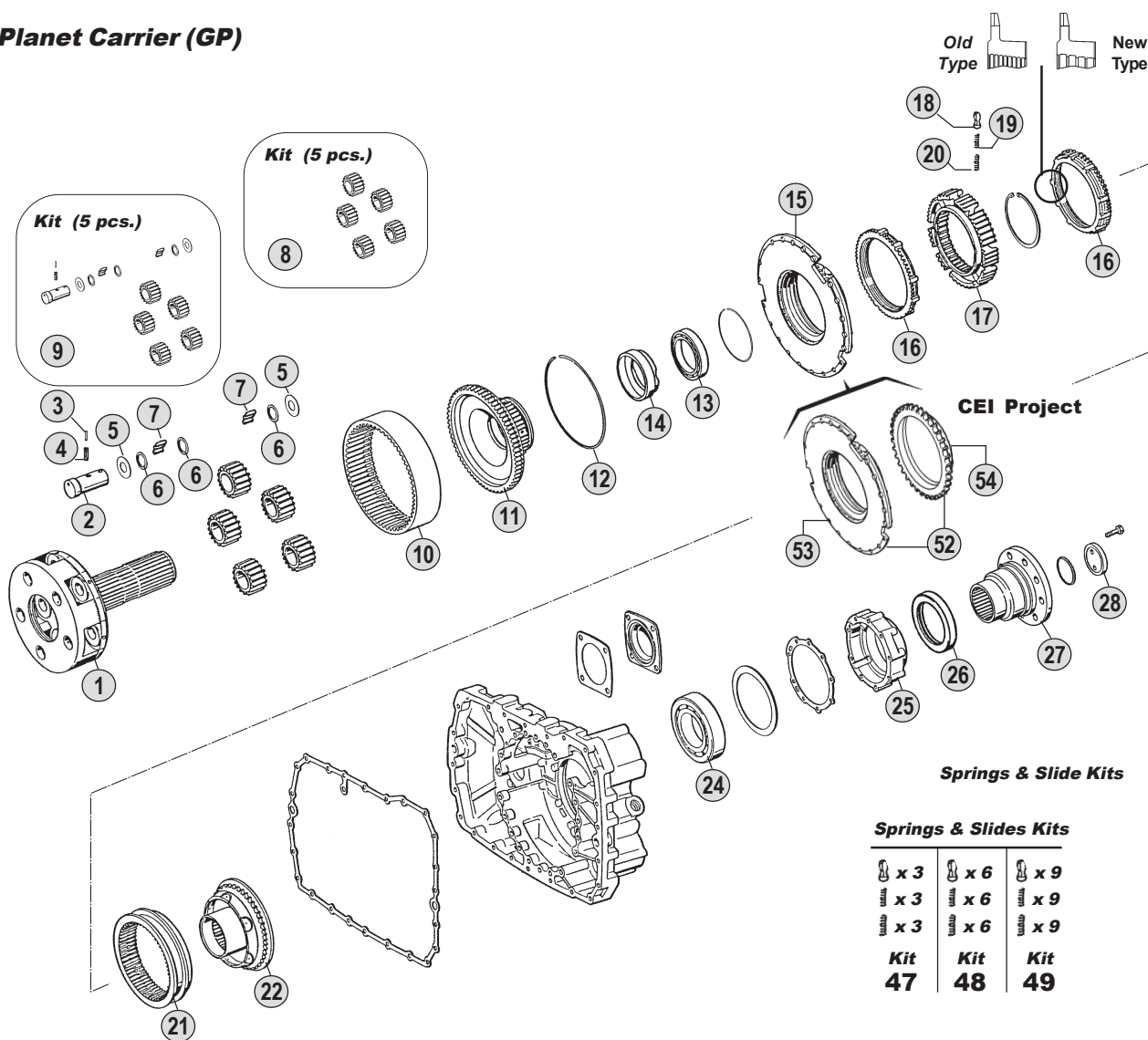
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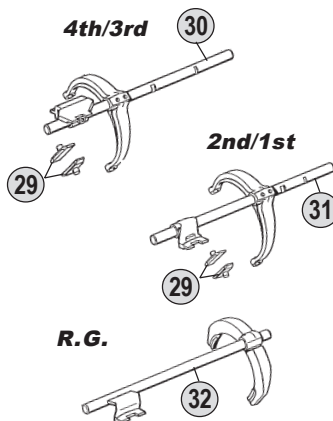


Suitable To : **ZF**

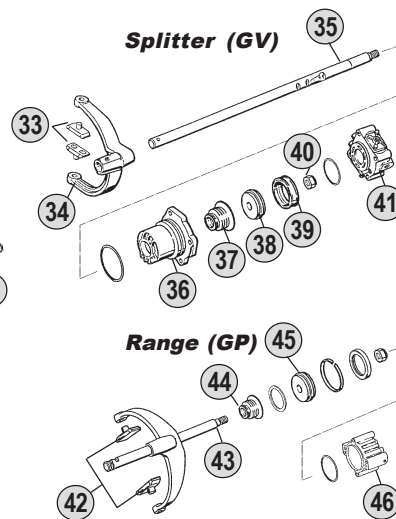
**Planet Carrier (GP)**



**Shifting Forks**



**Splitter (GV)**



**Kits**



**Ratios**

16S190/1 A :-- B : 11,46 - 0,85 C : 13,68 - 1,00 D : 14,29 - 0,82 E : 17,06 - 1,00

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.										VOLVO no.
1	190.396	1297 232 039	1662584	Planetary Carrier	1		BC	●				
1	190.395	1297 232 045		Planetary Carrier	1		DE	●				
2	107.163	1297 332 109	1662558	Planet Shaft	5			●				
3	160.191	0631 329 017	1699048	Lock Pin D.3x24	5			●				
4	160.192	0631 329 050	1699047	Lock Pin D.5x24	5			●				
5	169.753	0501 306 212	1662556	Thrust Washer D.29x64x1,5	10			●				
6	169.410	0730 103 846	1526833	Spacer Ring D.29x39x1,00	15			●				
7	171.045	0750 119 109	1662557	Roller Set D.10x16,80 (120 pcs)	120			●				
8	198.803	1297 232 023	1662555	Planetary Gear Set (5 pcs)	1		BC	●				
8	198.810	1297 232 024		Planetary Gear Set (5 pcs)	1		DE	●				
9	198.704	1297 298 912		Planetary Gear Set	1		BC	●				
9		1297 298 919		Planetary Gear Set	1		DE	●				
10	123.217	1297 332 080	1662568	Crown Gear 83 T	1		BC	●				
10	123.208	1295 332 086		Crown Gear 86 T	1		DE	●				
11	150.138	1297 332 017	1662559	Flange Gear 83 T	1		BC	●				
11	150.137	1297 332 035		Flange Gear 86 T	1		DE	●				
12	111.129	0730 505 055	1526845	Locking Wire	1		BC	●				
12	111.198	0730 505 056		Locking Wire	1		DE	●				
13	130.310	0750 116 165	1662561	Bearing D.80x110x16	1			●				
14		1297 332 002	1662560	Ring	1			●				
15	198.358	1296 233 006	1527360	Synchronizer Cone	1			●				
16	119.085	1296 333 022		Synchronizer Ring	2	Old Type		●				
16	119.172	1296 333 045	1527458	Synchronizer Ring	2	New Type		●				
17	157.113	1296 333 002	1526457	Synchronizer Hub	1			●				
18	160.116	1240 304 278	6635324	Pressure Piece	9			●				
19	156.036	0732 040 386	6635323	Inner Spring De.3x34	9			●				
20	156.037	0732 040 385	6635322	Outer Spring De.6x34	9			●				
21	154.098	1296 333 023	1527459	Sliding Sleeve	1			●				
22	198.374	1313 233 001	1662575	Synchronizer Cone (38 Spl.)	1			●				
24	130.245	0750 116 002	19499	Bearing D.90x160x30	1			●				
25		1296 301 067	1526826	Cover	1			●				
25	128.098	1315 301 220	1662553	Cover	1			●				
26		0750 111 341	1526828	Oil Seal 105x130x12	1			●				
27		1297 338 010	1672060	Output Flange	1	D.180-10.H.		●				
27		1297 338 051	1662570	Output Flange	1	D.204-4.H.		●				
28	188.077	1295 332 051	6889862	Stop Washer	1			●				
29	141.163	1297 306 120	3094007	Slide	2			●				
30		1297 206 103		Fork	1			●				
31		1297 206 106		Fork	1			●				
32		1297 206 174		Fork	1			●				
33	141.068	1295 306 132	1662543	Bronze Slide	2			●				
34		1313 312 002	1662550	Fork	1			●				
35		1297 312 008	1662549	Selector Rod	1			●				
36	132.046	1296 312 042	1526816	Cylinder	1			●				
37	139.331	0750 112 034	1526817	Cap Collar D.25x38x14,2	1			●				

Notes

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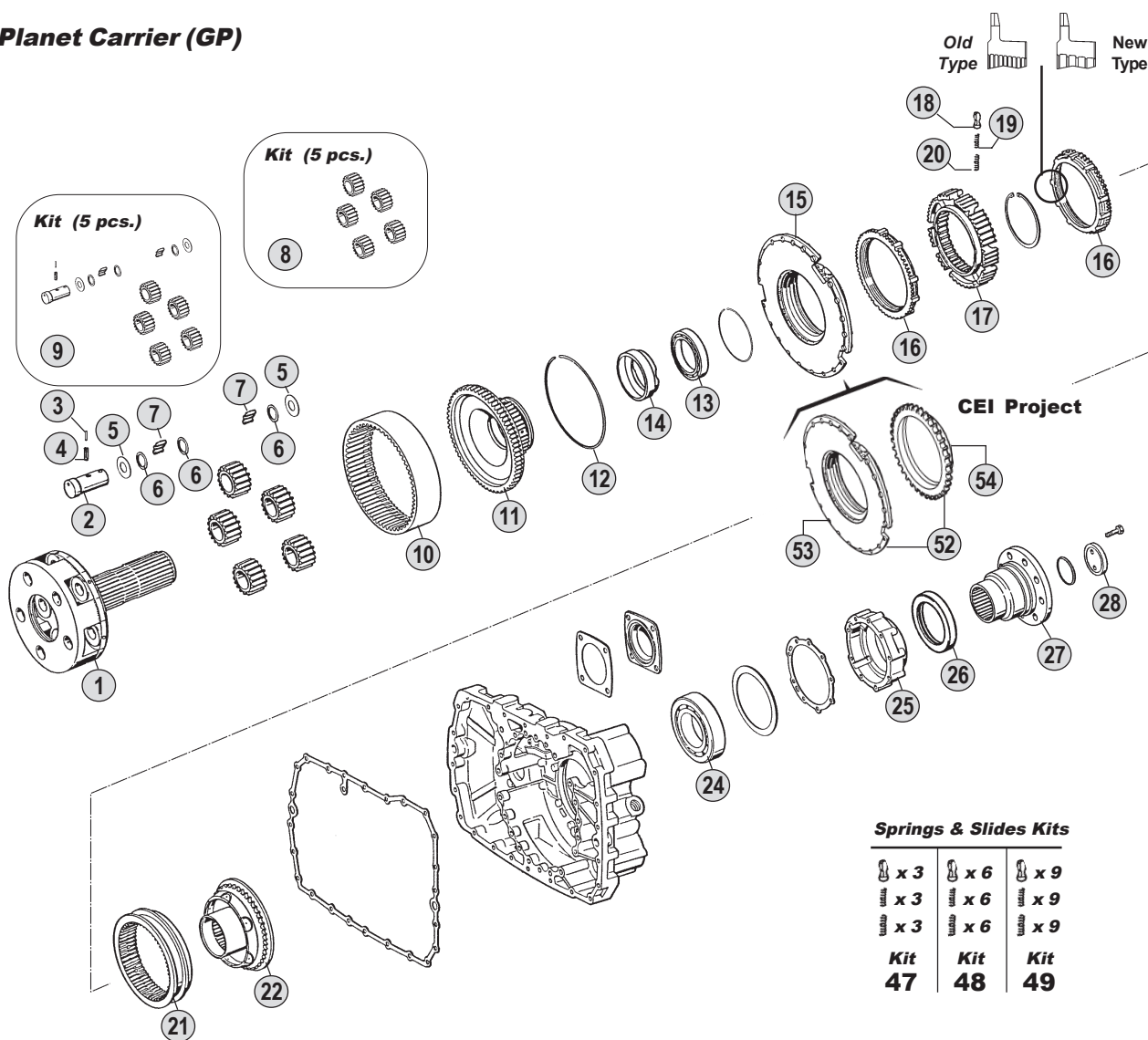
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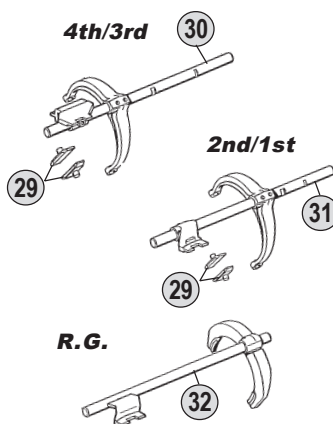
025 / B

Suitable To : **ZF**

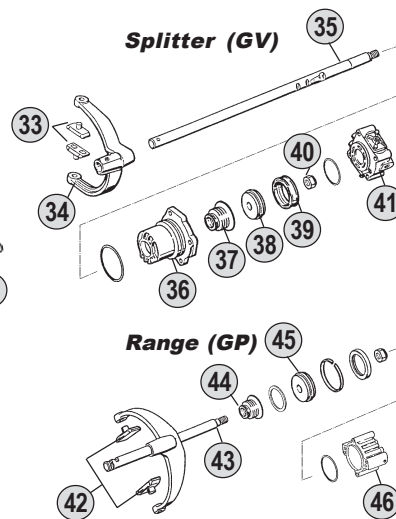
**Planet Carrier (GP)**



**Shifting Forks**



**Splitter (GV)**



**Kits**



**Ratios**

16S190/1 A :-- B : 11,46 - 0,85 C : 13,68 - 1,00 D : 14,29 - 0,82 E:17,06-1,00

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0501 203 683	See	1295 212 008			0501 308 981	169.759	IVE	010B	5	0631 329 050	160.192	MAN	004B	4
0501 204 595	See	1295 212 008			0501 308 981	169.759	IVE	011B	5	0631 329 050	160.192	MAN	005B	4
0501 305 887	169.408	MB	001B	5	0501 308 981	169.759	IVE	011B	5	0631 329 050	160.192	IVE	009B	4
0501 305 887	169.408	MB	002B	5	0501 308 981	169.759	IVE	012B	5	0631 329 050	160.192	IVE	010B	4
0501 305 887	169.408	MB	002B	5	0501 308 981	169.759	RVI	015B	5	0631 329 050	160.192	RVI	014B	4
0501 305 887	169.408	MAN	004B	5	0501 308 981	169.759	RVI	016B	5	0631 329 050	160.192	DAF	018B	4
0501 305 887	169.408	MAN	005B	5	0501 308 981	169.759	DAF	019B	5	0631 329 050	160.192	DAF	019B	4
0501 305 887	169.408	IVE	009B	5	0501 308 981	169.759	DAF	021B	5	0631 329 050	160.192	DAF	020B	4
0501 305 887	169.408	RVI	014B	5	0501 308 981	169.759	DAF	021B	5	0631 329 050	160.192	VOL	024B	4
0501 305 887	169.408	DAF	019B	5	0501 308 981	169.759	DAF	022B	5	0631 329 050	160.192	VOL	025B	4
0501 305 887	169.408	DAF	019B	5	0501 309 421	See	0750 112 034			0631 329 051	160.194	MB	002B	4
0501 305 887	169.408	DAF	020B	5	0501 312 738		MAN	007A	6	0631 329 051	160.194	MB	003B	4
0501 305 887	169.408	DAF	020B	5	0501 312 738		MAN	008A	6	0631 329 051	160.194	MAN	005B	4
0501 305 887	169.408	VOL	024B	5	0501 312 738		IVE	012A	6	0631 329 051	160.194	MAN	006B	4
0501 306 212	169.753	MB	001B	5	0501 312 738		IVE	013A	6	0631 329 051	160.194	MAN	007B	4
0501 306 212	169.753	MB	002B	5	0501 312 738		RVI	016A	6	0631 329 051	160.194	MAN	008B	4
0501 306 212	169.753	MB	002B	5	0501 312 738		RVI	017A	6	0631 329 051	160.194	IVE	009B	4
0501 306 212	169.753	MB	003B	5	0501 312 738		DAF	022A	6	0631 329 051	160.194	IVE	010B	4
0501 306 212	169.753	MAN	004B	5	0501 312 738		DAF	023A	6	0631 329 051	160.194	IVE	011B	4
0501 306 212	169.753	MAN	005B	5	0501 320 435		MB	003A	17	0631 329 051	160.194	IVE	012B	4
0501 306 212	169.753	MAN	005B	5	0501 320 435		MAN	006A	17	0631 329 051	160.194	IVE	013B	4
0501 306 212	169.753	MAN	006B	5	0501 320 435		IVE	011A	17	0631 329 051	160.194	RVI	015B	4
0501 306 212	169.753	IVE	009B	5	0501 320 435		RVI	015A	17	0631 329 051	160.194	RVI	016B	4
0501 306 212	169.753	IVE	009B	5	0501 320 435		DAF	021A	17	0631 329 051	160.194	RVI	017B	4
0501 306 212	169.753	IVE	010B	5	0630 502 027		MB	003A	16	0631 329 051	160.194	DAF	019B	4
0501 306 212	169.753	IVE	011B	5	0630 502 027		MAN	006A	16	0631 329 051	160.194	DAF	021B	4
0501 306 212	169.753	RVI	014B	5	0630 502 027		IVE	011A	16	0631 329 051	160.194	DAF	022B	4
0501 306 212	169.753	DAF	018B	5	0630 502 027		RVI	015A	16	0631 329 051	160.194	DAF	023B	4
0501 306 212	169.753	DAF	019B	5	0630 502 027		DAF	021A	16	0631 329 167	160.195	MB	002B	3
0501 306 212	169.753	DAF	019B	5	0631 329 017	160.191	MB	001B	3	0631 329 167	160.195	MB	003B	3
0501 306 212	169.753	DAF	020B	5	0631 329 017	160.191	MB	002B	3	0631 329 167	160.195	MAN	005B	3
0501 306 212	169.753	DAF	020B	5	0631 329 017	160.191	MAN	004B	3	0631 329 167	160.195	MAN	006B	3
0501 306 212	169.753	DAF	021B	5	0631 329 017	160.191	MAN	005B	3	0631 329 167	160.195	MAN	007B	3
0501 306 212	169.753	VOL	024B	5	0631 329 017	160.191	IVE	009B	3	0631 329 167	160.195	MAN	008B	3
0501 306 212	169.753	VOL	024B	5	0631 329 017	160.191	IVE	010B	3	0631 329 167	160.195	IVE	009B	3
0501 306 212	169.753	VOL	025B	5	0631 329 017	160.191	RVI	014B	3	0631 329 167	160.195	IVE	010B	3
0501 308 981	169.759	MB	002B	5	0631 329 017	160.191	DAF	018B	3	0631 329 167	160.195	IVE	011B	3
0501 308 981	169.759	MB	003B	5	0631 329 017	160.191	DAF	019B	3	0631 329 167	160.195	IVE	012B	3
0501 308 981	169.759	MAN	005B	5	0631 329 017	160.191	DAF	020B	3	0631 329 167	160.195	IVE	013B	3
0501 308 981	169.759	MAN	006B	5	0631 329 017	160.191	VOL	024B	3	0631 329 167	160.195	RVI	015B	3
0501 308 981	169.759	MAN	006B	5	0631 329 017	160.191	VOL	025B	3	0631 329 167	160.195	RVI	016B	3
0501 308 981	169.759	MAN	007B	5	0631 329 050	160.192	MB	001B	4	0631 329 167	160.195	RVI	017B	3
0501 308 981	169.759	IVE	009B	5	0631 329 050	160.192	MB	002B	4	0631 329 167	160.195	DAF	019B	3

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0631 329 167	160.195	DAF	021B 3	0634 310 733		MB	002A 2	0635 470 012		RVI	015A 12
0631 329 167	160.195	DAF	022B 3	0634 310 733		MAN	004A 7	0635 470 012		DAF	018A 16
0631 329 167	160.195	DAF	023B 3	0634 310 733		MAN	005A 2	0635 470 012		DAF	019A 12
0631 329 293		MAN	007A 74	0634 310 733		MAN	006A 2	0635 470 012		DAF	020A 12
0631 329 293		MAN	008A 74	0634 310 733		IVE	009A 2	0635 470 012		DAF	021A 12
0631 329 293		IVE	012A 74	0634 310 733		RVI	014A 2	0635 470 012		VOL	024A 12
0631 329 293		IVE	013A 74	0634 310 733		DAF	019A 2	0635 470 012		VOL	025A 12
0631 329 293		RVI	016A 74	0634 310 733		DAF	020A 2	0730 061 816	169.754	MB	001A 9
0631 329 293		RVI	017A 74	0634 310 733		DAF	021A 2	0730 061 816	169.754	MB	002A 4
0631 329 293		DAF	022A 74	0635 304 904	See	0750 116 002		0730 061 816	169.754	MB	003A 4
0631 329 293		DAF	023A 74	0635 338 035	130.311	MB	002B 13	0730 061 816	169.754	MAN	004A 9
0631 329 294		MAN	007A 74	0635 338 035	130.311	MB	003B 13	0730 061 816	169.754	MAN	005A 4
0631 329 294		MAN	008A 74	0635 338 035	130.311	MAN	005B 13	0730 061 816	169.754	MAN	006A 4
0631 329 294		IVE	012A 74	0635 338 035	130.311	MAN	006B 13	0730 061 816	169.754	IVE	009A 4
0631 329 294		IVE	013A 74	0635 338 035	130.311	MAN	007B 13	0730 061 816	169.754	IVE	010A 4
0631 329 294		RVI	016A 74	0635 338 035	130.311	IVE	009B 13	0730 061 816	169.754	IVE	011A 4
0631 329 294		RVI	017A 74	0635 338 035	130.311	IVE	010B 13	0730 061 816	169.754	RVI	014A 4
0631 329 294		DAF	022A 74	0635 338 035	130.311	IVE	011B 13	0730 061 816	169.754	RVI	015A 4
0631 329 294		DAF	023A 74	0635 338 035	130.311	IVE	012B 13	0730 061 816	169.754	DAF	018A 9
0631 329 295		MAN	007A 74	0635 338 035	130.311	RVI	016B 13	0730 061 816	169.754	DAF	019A 4
0631 329 295		MAN	008A 74	0635 338 035	130.311	DAF	019B 13	0730 061 816	169.754	DAF	020A 4
0631 329 295		IVE	012A 74	0635 338 035	130.311	DAF	021B 13	0730 061 816	169.754	DAF	021A 4
0631 329 295		IVE	013A 74	0635 338 035	130.311	DAF	022B 13	0730 061 816	169.754	VOL	024A 4
0631 329 295		RVI	016A 74	0635 338 048	See	0750 116 166		0730 061 816	169.754	VOL	025A 4
0631 329 295		RVI	017A 74	0635 338 049	See	0750 116 165		0730 061 842		MB	001A 45
0631 329 295		DAF	022A 74	0635 450 098		MAN	007A 13	0730 061 842		MB	002A 54
0631 329 295		DAF	023A 74	0635 450 098		MAN	008A 14	0730 061 842		MAN	004A 45
0631 329 296		MAN	007A 74	0635 450 098		IVE	012A 13	0730 061 842		MAN	005A 54
0631 329 296		MAN	008A 74	0635 450 098		IVE	013A 14	0730 061 842		IVE	009A 54
0631 329 296		IVE	012A 74	0635 450 098		RVI	016A 13	0730 061 842		IVE	010A 57
0631 329 296		IVE	013A 74	0635 450 098		RVI	017A 14	0730 061 842		RVI	014A 54
0631 329 296		RVI	016A 74	0635 450 098		DAF	022A 13	0730 061 842		DAF	018A 45
0631 329 296		RVI	017A 74	0635 450 098		DAF	023A 14	0730 061 842		DAF	019A 54
0631 329 296		DAF	022A 74	0635 470 012		MB	001A 16	0730 061 842		DAF	020A 57
0631 329 296		DAF	023A 74	0635 470 012		MB	002A 12	0730 061 842		VOL	024A 54
0631 329 305		MAN	008A 74	0635 470 012		MB	003A 12	0730 061 842		VOL	025A 57
0631 329 305		RVI	017A 74	0635 470 012		MAN	004A 16	0730 062 323	188.208	MB	001A 20
0631 329 305		DAF	023A 74	0635 470 012		MAN	005A 12	0730 062 323	188.208	MB	002A 16
0634 310 648		MB	002A 21	0635 470 012		MAN	006A 12	0730 062 323	188.208	MAN	004A 20
0634 310 648		MAN	005A 21	0635 470 012		IVE	009A 12	0730 062 323	188.208	MAN	005A 16
0634 310 648		IVE	009A 21	0635 470 012		IVE	010A 12	0730 062 323	188.208	IVE	009A 16
0634 310 648		IVE	010A 21	0635 470 012		IVE	011A 12	0730 062 323	188.208	IVE	010A 16
0634 310 733		MB	001A 7	0635 470 012		RVI	014A 12	0730 062 323	188.208	RVI	014A 16

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0730 062 323	188.208	DAF	018A	20	0730 103 244		MB	002A	5	0730 105 154		IVE	010A	5
0730 062 323	188.208	DAF	019A	16	0730 103 244		MAN	004A	10	0730 105 154		RVI	014A	5
0730 062 323	188.208	DAF	020A	16	0730 103 244		MAN	005A	5	0730 105 154		DAF	018A	10
0730 062 323	188.208	VOL	024A	16	0730 103 244		IVE	009A	5	0730 105 154		DAF	019A	5
0730 062 323	188.208	VOL	025A	16	0730 103 244		IVE	010A	5	0730 105 154		DAF	020A	5
0730 062 579	169.755	MB	001A	9	0730 103 244		RVI	014A	5	0730 105 154		VOL	024A	5
0730 062 579	169.755	MB	002A	4	0730 103 244		DAF	018A	10	0730 105 154		VOL	025A	5
0730 062 579	169.755	MAN	004A	9	0730 103 244		DAF	019A	5	0730 105 156		MB	001A	10
0730 062 579	169.755	MAN	005A	4	0730 103 244		DAF	020A	5	0730 105 156		MB	002A	5
0730 062 579	169.755	IVE	009A	4	0730 103 244		VOL	024A	5	0730 105 156		MAN	004A	10
0730 062 579	169.755	IVE	010A	4	0730 103 244		VOL	025A	5	0730 105 156		MAN	005A	5
0730 062 579	169.755	RVI	014A	4	0730 103 846	169.410	MB	001B	6	0730 105 156		IVE	009A	5
0730 062 579	169.755	DAF	018A	9	0730 103 846	169.410	MB	002B	6	0730 105 156		IVE	010A	5
0730 062 579	169.755	DAF	019A	4	0730 103 846	169.410	MB	003B	6	0730 105 156		RVI	014A	5
0730 062 579	169.755	DAF	020A	4	0730 103 846	169.410	MAN	004B	6	0730 105 156		DAF	018A	10
0730 062 579	169.755	VOL	024A	4	0730 103 846	169.410	MAN	005B	6	0730 105 156		DAF	019A	5
0730 062 579	169.755	VOL	025A	4	0730 103 846	169.410	MAN	006B	6	0730 105 156		DAF	020A	5
0730 062 781		MB	003A	20	0730 103 846	169.410	IVE	009B	6	0730 105 156		VOL	024A	5
0730 062 781		MAN	006A	20	0730 103 846	169.410	IVE	010B	6	0730 105 156		VOL	025A	5
0730 062 781		IVE	011A	20	0730 103 846	169.410	IVE	011B	6	0730 106 158		MB	003A	5
0730 062 781		RVI	015A	20	0730 103 846	169.410	RVI	014B	6	0730 106 158		MAN	006A	5
0730 062 781		DAF	021A	20	0730 103 846	169.410	DAF	018B	6	0730 106 158		IVE	011A	5
0730 101 471		MAN	007A	63	0730 103 846	169.410	DAF	019B	6	0730 106 158		RVI	015A	5
0730 101 471		MAN	007A	63	0730 103 846	169.410	DAF	020B	6	0730 106 158		DAF	021A	5
0730 101 471		MAN	008A	63	0730 103 846	169.410	DAF	021B	6	0730 106 168		MB	003A	5
0730 101 471		IVE	012A	63	0730 103 846	169.410	VOL	024B	6	0730 106 168		MAN	006A	5
0730 101 471		IVE	012A	63	0730 103 846	169.410	VOL	025B	6	0730 106 168		IVE	011A	5
0730 101 471		IVE	013A	63	0730 103 935		MB	001A	10	0730 106 168		RVI	015A	5
0730 101 471		RVI	016A	63	0730 103 935		MB	002A	5	0730 106 168		DAF	021A	5
0730 101 471		RVI	016A	63	0730 103 935		MAN	004A	10	0730 106 917		MAN	007A	63
0730 101 471		RVI	017A	63	0730 103 935		MAN	005A	5	0730 106 917		MAN	007A	63
0730 101 471		DAF	022A	63	0730 103 935		IVE	009A	5	0730 106 917		MAN	008A	63
0730 101 471		DAF	022A	63	0730 103 935		IVE	010A	5	0730 106 917		IVE	012A	63
0730 101 471		DAF	023A	63	0730 103 935		RVI	014A	5	0730 106 917		IVE	012A	63
0730 102 072		MAN	007A	63	0730 103 935		DAF	018A	10	0730 106 917		IVE	013A	63
0730 102 072		IVE	012A	63	0730 103 935		DAF	019A	5	0730 106 917		RVI	016A	63
0730 102 072		RVI	016A	63	0730 103 935		DAF	020A	5	0730 106 917		RVI	016A	63
0730 102 072		DAF	022A	63	0730 103 935		VOL	024A	5	0730 106 917		RVI	017A	63
0730 102 099		MAN	007A	63	0730 103 935		VOL	025A	5	0730 106 917		DAF	022A	63
0730 102 099		IVE	012A	63	0730 105 154		MB	001A	10	0730 106 917		DAF	022A	63
0730 102 099		RVI	016A	63	0730 105 154		MB	002A	5	0730 106 917		DAF	023A	63
0730 102 099		DAF	022A	63	0730 105 154		MAN	004A	10	0730 107 019		MB	003A	21
0730 103 244		MB	001A	10	0730 105 154		IVE	009A	5	0730 107 019		MAN	006A	21

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0730 107 019		IVE	011A 21	0730 109 309	269.010	IVE	013B 6	0730 505 055	111.129	MB	002B 12
0730 107 019		RVI	015A 21	0730 109 309	269.010	IVE	013B 6	0730 505 055	111.129	MB	002B 12
0730 107 019		DAF	021A 21	0730 109 309	269.010	RVI	017B 6	0730 505 055	111.129	MB	002B 12
0730 107 023		MB	003A 21	0730 109 309	269.010	RVI	017B 6	0730 505 055	111.129	MB	003B 11
0730 107 023		MAN	006A 21	0730 109 309	269.010	DAF	023B 6	0730 505 055	111.129	MAN	004B 12
0730 107 023		IVE	011A 21	0730 109 309	269.010	DAF	023B 6	0730 505 055	111.129	MAN	005B 12
0730 107 023		RVI	015A 21	0730 109 323	269.009	MAN	008B 5	0730 505 055	111.129	MAN	005B 12
0730 107 023		DAF	021A 21	0730 109 323	269.009	MAN	008B 5	0730 505 055	111.129	MAN	006B 11
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0735 321 438	137.134	MB	003A	7	0735 470 164	171.046	IVE	012B	7	0750 111 002		MB	002A	2
0735 321 438	137.134	MAN	006A	7	0735 470 164	171.046	RVI	015B	7	0750 111 002		MAN	004A	7
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0735 321 438	137.134	IVE	011A	7	0735 470 164	171.046	DAF	021B	7	0750 111 002		MAN	005A	2
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0750 111 341		DAF	019B 26	0750 112 034	139.331	DAF	018B 43	0750 112 131		IVE	013B 37
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0750 112 034	139.331	MAN	006B 42	0750 112 048		DAF	021B 38	0750 115 011	137.007	RVI	015A 64
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0750 115 011	<b>137.007</b>	DAF	020A	67	0750 115 310	137.148	DAF	021A	7	0750 115 327	<b>137.151</b>	IVE	012A	54
0750 115 011	<b>137.007</b>	DAF	021A	64	0750 115 310	137.148	DAF	022A	16	0750 115 327	<b>137.151</b>	IVE	013A	54
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0750 115 059	137.086	IVE	009A	48	0750 115 324	<b>137.162</b>	RVI	015A	53	0750 115 366	<b>137.135</b>	MAN	008A	70
0750 115 059	137.086	RVI	014A	48	0750 115 324	<b>137.162</b>	RVI	016A	59	0750 115 366	<b>137.135</b>	IVE	012A	70
0750 115 059	137.086	DAF	019A	48	0750 115 324	<b>137.162</b>	RVI	017A	59	0750 115 366	<b>137.135</b>	IVE	013A	70
0750 115 059	137.086	DAF	020A	51	0750 115 324	<b>137.162</b>	DAF	021A	53	0750 115 366	<b>137.135</b>	RVI	016A	70
0750 115 059	137.086	VOL	024A	48	0750 115 324	<b>137.162</b>	DAF	022A	59	0750 115 366	<b>137.135</b>	RVI	017A	70
0750 115 255	137.154	MB	003A	64	0750 115 324	<b>137.162</b>	DAF	023A	59	0750 115 366	<b>137.135</b>	DAF	022A	70
0750 115 255	137.154	MAN	006A	64	0750 115 325	<b>137.160</b>	MAN	006A	48	0750 115 366	<b>137.135</b>	DAF	023A	70
0750 115 255	137.154	IVE	011A	64	0750 115 325	<b>137.160</b>	MAN	007A	54	0750 115 369	<b>137.149</b>	MAN	007A	70
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0750 115 303	<b>137.138</b>	MB	003A	35	0750 115 325	<b>137.160</b>	IVE	012A	54	0750 115 369	<b>137.149</b>	IVE	013A	70
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0750 115 303	<b>137.138</b>	MAN	008A	40	0750 115 325	<b>137.160</b>	RVI	017A	54	0750 115 369	<b>137.149</b>	DAF	023A	70
0750 115 303	<b>137.138</b>	IVE	011A	32	0750 115 325	<b>137.160</b>	DAF	021A	48	0750 115 531	<b>137.136</b>	MAN	007A	30
0750 115 303	<b>137.138</b>	IVE	011A	35	0750 115 325	<b>137.160</b>	DAF	022A	54	0750 115 531	<b>137.136</b>	MAN	008A	30
0750 115 303	<b>137.138</b>	IVE	012A	40	0750 115 325	<b>137.160</b>	DAF	023A	54	0750 115 531	<b>137.136</b>	IVE	012A	30
0750 115 303	<b>137.138</b>	IVE	013A	40	0750 115 326	<b>137.140</b>	MB	003A	53	0750 115 531	<b>137.136</b>	IVE	013A	30
0750 115 303	<b>137.138</b>	RVI	016A	40	0750 115 326	<b>137.140</b>	MAN	006A	53	0750 115 531	<b>137.136</b>	RVI	016A	30
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0750 115 303	<b>137.138</b>	DAF	022A	40	0750 115 326	<b>137.140</b>	IVE	012A	59	0750 115 534	137.164	MAN	007A	30
0750 115 303	<b>137.138</b>	DAF	023A	40	0750 115 326	<b>137.140</b>	IVE	013A	59	0750 115 534	137.164	MAN	008A	30
0750 115 304		MB	003A	48	0750 115 326	<b>137.140</b>	RVI	016A	59	0750 115 534	137.164	IVE	012A	30
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0750 115 304		DAF	021A	48	0750 115 326	<b>137.140</b>	DAF	022A	59	0750 115 534	137.164	RVI	017A	30
0750 115 310	137.148	MAN	006A	7	0750 115 326	<b>137.140</b>	DAF	023A	59	0750 115 534	137.164	DAF	022A	30
0750 115 310	137.148	MAN	007A	16	0750 115 327	<b>137.151</b>	MB	003A	48	0750 115 534	137.164	DAF	023A	30
0750 115 310	137.148	IVE	011A	7	0750 115 327	<b>137.151</b>	MAN	006A	48	0750 116 002	130.245	MB	001B	24
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0750 116 002	130.245	IVE	010B 24	0750 116 166	130.244	MB	002B 13	0750 117 009	130.308	RVI	016A 69
0750 116 002	130.245	IVE	011B 23	0750 116 166	130.244	MB	002B 13	0750 117 009	130.308	RVI	017A 64
0750 116 002	130.245	IVE	012B 24	0750 116 166	130.244	MAN	004B 13	0750 117 009	130.308	RVI	017A 69
0750 116 002	130.245	IVE	013B 26	0750 116 166	130.244	MAN	005B 13	0750 117 009	130.308	DAF	019A 62
0750 116 002	130.245	RVI	014B 24	0750 116 166	130.244	IVE	009B 13	0750 117 009	130.308	DAF	020A 65
0750 116 002	130.245	RVI	015B 23	0750 116 166	130.244	RVI	014B 13	0750 117 009	130.308	DAF	021A 57
0750 116 002	130.245	RVI	016B 24	0750 116 166	130.244	DAF	019B 13	0750 117 009	130.308	DAF	021A 62
0750 116 002	130.245	RVI	017B 26	0750 116 166	130.244	DAF	019B 13	0750 117 009	130.308	DAF	022A 64
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0750 116 002	130.245	DAF	020B 24	0750 116 166	130.244	VOL	024B 13	0750 117 009	130.308	DAF	023A 64
0750 116 002	130.245	DAF	021B 23	0750 117 008	130.243	MB	001A 54	0750 117 009	130.308	DAF	023A 69
0750 116 002	130.245	DAF	022B 24	0750 117 008	130.243	MB	002A 62	0750 117 009	130.308	VOL	024A 62
0750 116 002	130.245	DAF	023B 26	0750 117 008	130.243	MAN	004A 54	0750 117 009	130.308	VOL	025A 65
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0750 116 002	130.245	VOL	025B 24	0750 117 008	130.243	IVE	009A 62	0750 117 010	130.242	MB	002A 57
0750 116 165	130.310	MB	001B 13	0750 117 008	130.243	RVI	014A 62	0750 117 010	130.242	MAN	004A 49
0750 116 165	130.310	MB	002B 13	0750 117 008	130.243	DAF	018A 54	0750 117 010	130.242	MAN	005A 57
0750 116 165	130.310	MB	002B 13	0750 117 008	130.243	DAF	019A 62	0750 117 010	130.242	MAN	006A 57
0750 116 165	130.310	MAN	004B 13	0750 117 008	130.243	DAF	020A 65	0750 117 010	130.242	MAN	007A 64
0750 116 165	130.310	MAN	005B 13	0750 117 008	130.243	VOL	024A 62	0750 117 010	130.242	IVE	009A 57
0750 116 165	130.310	MAN	005B 13	0750 117 009	130.308	MB	002A 62	0750 117 010	130.242	IVE	010A 60
0750 116 165	130.310	MAN	006B 13	0750 117 009	130.308	MB	003A 57	0750 117 010	130.242	IVE	011A 57
0750 116 165	130.310	MAN	007B 13	0750 117 009	130.308	MB	003A 62	0750 117 010	130.242	IVE	012A 64
0750 116 165	130.310	IVE	009B 13	0750 117 009	130.308	MAN	005A 62	0750 117 010	130.242	RVI	014A 57
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0750 116 165	130.310	IVE	010B 13	0750 117 009	130.308	MAN	006A 62	0750 117 010	130.242	RVI	016A 64
0750 116 165	130.310	IVE	011B 13	0750 117 009	130.308	MAN	007A 64	0750 117 010	130.242	DAF	018A 49
0750 116 165	130.310	IVE	012B 13	0750 117 009	130.308	MAN	007A 64	0750 117 010	130.242	DAF	019A 57
0750 116 165	130.310	RVI	014B 13	0750 117 009	130.308	MAN	007A 69	0750 117 010	130.242	DAF	020A 60
0750 116 165	130.310	RVI	015B 13	0750 117 009	130.308	MAN	008A 64	0750 117 010	130.242	DAF	021A 57
0750 116 165	130.310	RVI	016B 13	0750 117 009	130.308	MAN	008A 69	0750 117 010	130.242	DAF	022A 64
0750 116 165	130.310	DAF	018B 13	0750 117 009	130.308	IVE	009A 62	0750 117 010	130.242	VOL	024A 57
0750 116 165	130.310	DAF	019B 13	0750 117 009	130.308	IVE	010A 65	0750 117 010	130.242	VOL	025A 60
0750 116 165	130.310	DAF	019B 13	0750 117 009	130.308	IVE	011A 57	0750 117 011	130.307	MB	001A 54
0750 116 165	130.310	DAF	020B 13	0750 117 009	130.308	IVE	011A 62	0750 117 011	130.307	MB	002A 62
0750 116 165	130.310	DAF	020B 13	0750 117 009	130.308	IVE	012A 64	0750 117 011	130.307	MAN	004A 54

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0750 117 011	<b>130.307</b>	MAN	007A	69	0750 117 651		IVE	009A	20	0750 118 005	<i>137.083</i>	DAF	020A	29
0750 117 011	<b>130.307</b>	MAN	008A	69	0750 117 651		IVE	010A	20	0750 118 005	<i>137.083</i>	VOL	024A	29
0750 117 011	<b>130.307</b>	IVE	011A	62	0750 117 677	<b>130.309</b>	MAN	006A	55	0750 118 006		MB	002A	56
0750 117 011	<b>130.307</b>	IVE	012A	69	0750 117 677	<b>130.309</b>	MAN	007A	61	0750 118 006		MAN	005A	56
0750 117 011	<b>130.307</b>	IVE	013A	69	0750 117 677	<b>130.309</b>	MAN	008A	61	0750 118 006		IVE	009A	56
0750 117 011	<b>130.307</b>	RVI	015A	62	0750 117 677	<b>130.309</b>	IVE	011A	55	0750 118 006		IVE	010A	59
0750 117 011	<b>130.307</b>	RVI	016A	69	0750 117 677	<b>130.309</b>	IVE	012A	61	0750 118 006		DAF	019A	56
0750 117 011	<b>130.307</b>	RVI	017A	69	0750 117 677	<b>130.309</b>	IVE	013A	61	0750 118 006		DAF	020A	59
0750 117 011	<b>130.307</b>	DAF	019A	62	0750 117 677	<b>130.309</b>	RVI	015A	55	0750 118 006		VOL	024A	56
0750 117 011	<b>130.307</b>	DAF	020A	65	0750 117 677	<b>130.309</b>	RVI	016A	61	0750 118 006		VOL	025A	59
0750 117 011	<b>130.307</b>	DAF	021A	62	0750 117 677	<b>130.309</b>	RVI	017A	61	0750 118 007	<i>130.517</i>	MB	002A	6
0750 117 011	<b>130.307</b>	DAF	022A	69	0750 117 677	<b>130.309</b>	DAF	021A	55	0750 118 010	<i>137.081</i>	MB	001A	23
0750 117 011	<b>130.307</b>	DAF	023A	69	0750 117 677	<b>130.309</b>	DAF	022A	61	0750 118 010	<i>137.081</i>	MB	002A	27
0750 117 232	<b>137.150</b>	MB	003A	22	0750 117 677	<b>130.309</b>	DAF	023A	61	0750 118 010	<i>137.081</i>	MAN	004A	23
0750 117 232	<b>137.150</b>	MAN	006A	22	0750 117 678	<b>130.304</b>	MB	003A	55	0750 118 010	<i>137.081</i>	MAN	005A	27
0750 117 232	<b>137.150</b>	MAN	007A	26	0750 117 678	<b>130.304</b>	MAN	006A	55	0750 118 010	<i>137.081</i>	IVE	009A	27
0750 117 232	<b>137.150</b>	MAN	008A	26	0750 117 678	<b>130.304</b>	MAN	007A	61	0750 118 010	<i>137.081</i>	RVI	014A	27
0750 117 232	<b>137.150</b>	IVE	011A	22	0750 117 678	<b>130.304</b>	MAN	008A	61	0750 118 010	<i>137.081</i>	DAF	019A	27
0750 117 232	<b>137.150</b>	IVE	012A	26	0750 117 678	<b>130.304</b>	IVE	011A	55	0750 118 010	<i>137.081</i>	DAF	020A	27
0750 117 232	<b>137.150</b>	IVE	013A	26	0750 117 678	<b>130.304</b>	IVE	012A	61	0750 118 010	<i>137.081</i>	VOL	024A	27
0750 117 232	<b>137.150</b>	RVI	015A	22	0750 117 678	<b>130.304</b>	IVE	013A	61	0750 118 012	<i>137.155</i>	MB	002A	29
0750 117 232	<b>137.150</b>	RVI	016A	26	0750 117 678	<b>130.304</b>	RVI	016A	61	0750 118 012	<i>137.155</i>	DAF	019A	29
0750 117 232	<b>137.150</b>	RVI	017A	26	0750 117 678	<b>130.304</b>	RVI	017A	61	0750 118 012	<i>137.155</i>	DAF	020A	29
0750 117 232	<b>137.150</b>	DAF	021A	22	0750 117 678	<b>130.304</b>	DAF	021A	55	0750 118 017		MB	001A	25
0750 117 232	<b>137.150</b>	DAF	022A	26	0750 117 678	<b>130.304</b>	DAF	022A	61	0750 118 017		MAN	004A	25
0750 117 232	<b>137.150</b>	DAF	023A	26	0750 117 678	<b>130.304</b>	DAF	023A	61	0750 118 030	See	0750 118 220		
0750 117 233		MB	003A	55	0750 117 732	<b>130.518</b>	MAN	007A	19	0750 118 038	<i>137.113</i>	MB	001A	23
0750 117 233		MAN	006A	55	0750 117 732	<b>130.518</b>	MAN	008A	16	0750 118 038	<i>137.113</i>	MB	002A	27
0750 117 233		IVE	011A	55	0750 117 732	<b>130.518</b>	IVE	012A	19	0750 118 038	<i>137.113</i>	MAN	004A	23
0750 117 233		DAF	021A	55	0750 117 732	<b>130.518</b>	IVE	013A	16	0750 118 038	<i>137.113</i>	MAN	005A	27
0750 117 402	See	0750 117 678			0750 117 732	<b>130.518</b>	RVI	016A	19	0750 118 038	<i>137.113</i>	IVE	009A	27
0750 117 403	See	0750 117 677			0750 117 732	<b>130.518</b>	RVI	017A	16	0750 118 038	<i>137.113</i>	IVE	010A	27
0750 117 431	<b>130.306</b>	MB	003A	6	0750 117 732	<b>130.518</b>	DAF	022A	19	0750 118 038	<i>137.113</i>	DAF	018A	23
0750 117 431	<b>130.306</b>	MAN	006A	6	0750 117 732	<b>130.518</b>	DAF	023A	16	0750 118 038	<i>137.113</i>	DAF	019A	27
0750 117 431	<b>130.306</b>	MAN	007A	15	0750 118 004	See	0750 118 131			0750 118 038	<i>137.113</i>	DAF	020A	27
0750 117 431	<b>130.306</b>	IVE	011A	6	0750 118 005	<i>137.083</i>	MB	001A	25	0750 118 038	<i>137.113</i>	VOL	024A	27
0750 117 431	<b>130.306</b>	IVE	012A	15	0750 118 005	<i>137.083</i>	MB	002A	29	0750 118 038	<i>137.113</i>	VOL	025A	27
0750 117 431	<b>130.306</b>	RVI	015A	6	0750 118 005	<i>137.083</i>	MAN	004A	25	0750 118 067	See	0750 118 153		
0750 117 431	<b>130.306</b>	RVI	016A	15	0750 118 005	<i>137.083</i>	MAN	005A	29	0750 118 126	See	0750 118 131		
0750 117 431	<b>130.306</b>	DAF	021A	6	0750 118 005	<i>137.083</i>	IVE	009A	29	0750 118 130	See	0750 118 131		
0750 117 431	<b>130.306</b>	DAF	022A	15	0750 118 005	<i>137.083</i>	RVI	014A	29	0750 118 131	<i>130.305</i>	MB	001A	59
0750 117 651		MB	002A	20	0750 118 005	<i>137.083</i>	DAF	018A	25	0750 118 131	<i>130.305</i>	MB	002A	6

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Ref. ZF	Ref. CEI	OEM	Tav.	Fig.	Ref. ZF	Ref. CEI	OEM	Tav.	Fig.	Ref. ZF	Ref. CEI	OEM	Tav.	Fig.
0750 118 131	130.305	MAN	004A	59	0750 118 181		MB	001A	48	0750 119 109	171.045	VOL	025B	7
0750 118 131	130.305	MAN	005A	6	0750 118 191	See	0750 118 258			0750 119 116	171.062	MB	002B	7
0750 118 131	130.305	IVE	009A	6	0750 118 198	<b>137.156</b>	MAN	006A	24	0750 119 116	171.062	MB	003B	7
0750 118 131	130.305	IVE	010A	6	0750 118 198	<b>137.156</b>	MAN	007A	30	0750 119 116	171.062	MB	003B	7
0750 118 131	130.305	RVI	014A	6	0750 118 198	<b>137.156</b>	IVE	011A	24	0750 119 116	171.062	MAN	005B	7
0750 118 131	130.305	DAF	018A	59	0750 118 198	<b>137.156</b>	IVE	012A	30	0750 119 116	171.062	MAN	006B	7
0750 118 131	130.305	DAF	019A	6	0750 118 198	<b>137.156</b>	RVI	015A	24	0750 119 116	171.062	MAN	006B	7
0750 118 131	130.305	DAF	020A	6	0750 118 198	<b>137.156</b>	RVI	016A	30	0750 119 116	171.062	MAN	007B	7
0750 118 131	130.305	VOL	024A	6	0750 118 198	<b>137.156</b>	DAF	021A	24	0750 119 116	171.062	MAN	008B	7
0750 118 131	130.305	VOL	025A	6	0750 118 198	<b>137.156</b>	DAF	022A	30	0750 119 116	171.062	IVE	009B	7
0750 118 136	See	0750 118 180			0750 118 220	137.157	MB	002A	29	0750 119 116	171.062	IVE	010B	7
0750 118 137		MB	001A	48	0750 118 220	137.157	MAN	005A	29	0750 119 116	171.062	IVE	011B	7
0750 118 137		MB	002A	56	0750 118 220	137.157	IVE	009A	29	0750 119 116	171.062	IVE	011B	7
0750 118 137		MAN	004A	48	0750 118 220	137.157	IVE	010A	29	0750 119 116	171.062	IVE	012B	7
0750 118 137		MAN	005A	56	0750 118 220	137.157	DAF	019A	29	0750 119 116	171.062	IVE	013B	7
0750 118 137		IVE	009A	56	0750 118 220	137.157	DAF	020A	29	0750 119 116	171.062	RVI	016B	7
0750 118 137		RVI	014A	56	0750 118 220	137.157	VOL	024A	29	0750 119 116	171.062	RVI	017B	7
0750 118 137		DAF	018A	48	0750 118 220	137.157	VOL	025A	29	0750 119 116	171.062	DAF	019B	7
0750 118 137		DAF	019A	56	0750 118 258		MB	003A	25	0750 119 116	171.062	DAF	021B	7
0750 118 137		DAF	020A	59	0750 118 258		MAN	006A	25	0750 119 116	171.062	DAF	021B	7
0750 118 137		VOL	024A	56	0750 118 258		MAN	007A	30	0750 119 116	171.062	DAF	022B	7
0750 118 153	130.240	MB	001A	48	0750 118 258		IVE	011A	25	0750 119 116	171.062	DAF	023B	7
0750 118 153	130.240	MB	001A	48	0750 118 258		IVE	012A	30	0750 119 124	<b>117.320</b>	MAN	007A	29
0750 118 153	130.240	MB	002A	56	0750 118 258		RVI	016A	30	0750 119 124	<b>117.320</b>	MAN	008A	29
0750 118 153	130.240	MB	002A	56	0750 118 258		DAF	021A	25	0750 119 124	<b>117.320</b>	IVE	012A	29
0750 118 153	130.240	MAN	004A	48	0750 118 258		DAF	022A	30	0750 119 124	<b>117.320</b>	IVE	013A	29
0750 118 153	130.240	MAN	005A	56	0750 119 109	171.045	MB	001B	7	0750 119 124	<b>117.320</b>	RVI	016A	29
0750 118 153	130.240	IVE	009A	56	0750 119 109	171.045	MB	002B	7	0750 119 124	<b>117.320</b>	RVI	017A	29
0750 118 153	130.240	RVI	014A	56	0750 119 109	171.045	MB	002B	7	0750 119 124	<b>117.320</b>	DAF	022A	29
0750 118 153	130.240	DAF	018A	48	0750 119 109	171.045	MAN	004B	7	0750 119 124	<b>117.320</b>	DAF	023A	29
0750 118 153	130.240	DAF	019A	56	0750 119 109	171.045	MAN	005B	7	0750 119 125	117.321	MAN	007A	29
0750 118 153	130.240	DAF	019A	56	0750 119 109	171.045	MAN	005B	7	0750 119 125	117.321	MAN	008A	29
0750 118 153	130.240	DAF	020A	59	0750 119 109	171.045	IVE	009B	7	0750 119 125	117.321	IVE	012A	29
0750 118 153	130.240	DAF	020A	59	0750 119 109	171.045	IVE	009B	7	0750 119 125	117.321	IVE	013A	29
0750 118 153	130.240	VOL	024A	56	0750 119 109	171.045	IVE	010B	7	0750 119 125	117.321	RVI	016A	29
0750 118 180		MB	002A	56	0750 119 109	171.045	RVI	014B	7	0750 119 125	117.321	RVI	017A	29
0750 118 180		MAN	005A	56	0750 119 109	171.045	DAF	018B	7	0750 119 125	117.321	DAF	022A	29
0750 118 180		IVE	009A	56	0750 119 109	171.045	DAF	019B	7	0750 119 125	117.321	DAF	023A	29
0750 118 180		IVE	010A	59	0750 119 109	171.045	DAF	019B	7	0750 132 032		MB	001B	40
0750 118 180		DAF	019A	56	0750 119 109	171.045	DAF	020B	7	0750 132 032		MB	002B	40
0750 118 180		DAF	020A	59	0750 119 109	171.045	DAF	020B	7	0750 132 032		MB	003B	40
0750 118 180		VOL	024A	56	0750 119 109	171.045	VOL	024B	7	0750 132 032		MAN	004B	40
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0750 132 032		MAN	006B	40	1240 304 278	<b>160.116</b>	IVE	009A	15	1268 298 938	<b>198.339</b>	MB	002B	46
0750 132 032		IVE	009B	40	1240 304 278	<b>160.116</b>	IVE	009B	18	1268 298 938	<b>198.339</b>	MB	003B	46
0750 132 032		IVE	010B	41	1240 304 278	<b>160.116</b>	IVE	010A	15	1268 298 938	<b>198.339</b>	MAN	004A	60
0750 132 032		IVE	011B	40	1240 304 278	<b>160.116</b>	IVE	010B	18	1268 298 938	<b>198.339</b>	MAN	004B	46
0750 132 032		RVI	014B	40	1240 304 278	<b>160.116</b>	IVE	011B	17	1268 298 938	<b>198.339</b>	MAN	005A	68
0750 132 032		RVI	015B	40	1240 304 278	<b>160.116</b>	IVE	012B	17	1268 298 938	<b>198.339</b>	MAN	005B	46
0750 132 032		DAF	018B	40	1240 304 278	<b>160.116</b>	IVE	013B	20	1268 298 938	<b>198.339</b>	MAN	006B	46
0750 132 032		DAF	019B	40	1240 304 278	<b>160.116</b>	RVI	014A	15	1268 298 938	<b>198.339</b>	MAN	007B	48
0750 132 032		DAF	020B	41	1240 304 278	<b>160.116</b>	RVI	014B	18	1268 298 938	<b>198.339</b>	MAN	008B	50
0750 132 032		DAF	021B	40	1240 304 278	<b>160.116</b>	RVI	015B	17	1268 298 938	<b>198.339</b>	IVE	009A	68
0750 132 032		VOL	024B	40	1240 304 278	<b>160.116</b>	RVI	016B	17	1268 298 938	<b>198.339</b>	IVE	009B	46
0750 132 032		VOL	025B	41	1240 304 278	<b>160.116</b>	RVI	017B	20	1268 298 938	<b>198.339</b>	IVE	010A	70
0750 132 033		MB	001B	40	1240 304 278	<b>160.116</b>	DAF	018A	17	1268 298 938	<b>198.339</b>	IVE	010B	47
0750 132 033		MB	002B	40	1240 304 278	<b>160.116</b>	DAF	018B	18	1268 298 938	<b>198.339</b>	IVE	011B	46
0750 132 033		MB	003B	40	1240 304 278	<b>160.116</b>	DAF	019A	15	1268 298 938	<b>198.339</b>	IVE	012B	48
0750 132 033		MAN	004B	40	1240 304 278	<b>160.116</b>	DAF	019B	18	1268 298 938	<b>198.339</b>	IVE	013B	50
0750 132 033		MAN	005B	40	1240 304 278	<b>160.116</b>	DAF	020A	15	1268 298 938	<b>198.339</b>	RVI	014A	68
0750 132 033		MAN	006B	40	1240 304 278	<b>160.116</b>	DAF	020B	18	1268 298 938	<b>198.339</b>	RVI	014B	46
0750 132 033		IVE	009B	40	1240 304 278	<b>160.116</b>	DAF	021B	17	1268 298 938	<b>198.339</b>	RVI	015B	46
0750 132 033		IVE	010B	41	1240 304 278	<b>160.116</b>	DAF	022B	17	1268 298 938	<b>198.339</b>	RVI	016B	48
0750 132 033		IVE	011B	40	1240 304 278	<b>160.116</b>	DAF	023B	20	1268 298 938	<b>198.339</b>	RVI	017B	50
0750 132 033		RVI	014B	40	1240 304 278	<b>160.116</b>	VOL	024A	15	1268 298 938	<b>198.339</b>	DAF	018A	60
0750 132 033		RVI	015B	40	1240 304 278	<b>160.116</b>	VOL	024B	18	1268 298 938	<b>198.339</b>	DAF	018B	46
0750 132 033		DAF	018B	40	1240 304 278	<b>160.116</b>	VOL	025A	15	1268 298 938	<b>198.339</b>	DAF	019A	68
0750 132 033		DAF	019B	40	1240 304 278	<b>160.116</b>	VOL	025B	18	1268 298 938	<b>198.339</b>	DAF	019B	46
0750 132 033		DAF	020B	41	1246 304 278	<b>119.086</b>	MB	002A	41	1268 298 938	<b>198.339</b>	DAF	020A	70
0750 132 033		DAF	021B	40	1246 304 278	<b>119.086</b>	MAN	005A	41	1268 298 938	<b>198.339</b>	DAF	020B	47
0750 132 033		VOL	024B	40	1246 304 278	<b>119.086</b>	IVE	009A	41	1268 298 938	<b>198.339</b>	DAF	021B	46
0750 132 033		VOL	025B	41	1246 304 278	<b>119.086</b>	RVI	014A	41	1268 298 938	<b>198.339</b>	DAF	022B	48
0750 190 012		MB	001A	3	1246 304 278	<b>119.086</b>	DAF	019A	41	1268 298 938	<b>198.339</b>	DAF	023B	50
0750 190 012		MAN	004A	3	1246 304 278	<b>119.086</b>	VOL	024A	41	1268 298 938	<b>198.339</b>	VOL	024A	68
1240 304 278	<b>160.116</b>	MB	001A	17	1250 304 160	See	1257 304 020			1268 298 938	<b>198.339</b>	VOL	024B	46
1240 304 278	<b>160.116</b>	MB	001B	18	1257 304 020	<b>154.051</b>	MB	002A	43	1268 298 938	<b>198.339</b>	VOL	025A	70
1240 304 278	<b>160.116</b>	MB	002A	15	1257 304 020	<b>154.051</b>	MAN	005A	43	1268 298 938	<b>198.339</b>	VOL	025B	47
1240 304 278	<b>160.116</b>	MB	002B	18	1257 304 020	<b>154.051</b>	IVE	009A	43	1268 303 062		MB	001A	4
1240 304 278	<b>160.116</b>	MB	003B	17	1257 304 020	<b>154.051</b>	RVI	014A	43	1268 303 062		MAN	004A	4
1240 304 278	<b>160.116</b>	MAN	004A	17	1257 304 020	<b>154.051</b>	DAF	019A	43	1268 304 424	<b>119.152</b>	MB	003A	42
1240 304 278	<b>160.116</b>	MAN	004B	18	1257 304 020	<b>154.051</b>	VOL	024A	43	1268 304 424	<b>119.152</b>	MAN	006A	42
1240 304 278	<b>160.116</b>	MAN	005A	15	1268 203 059		MB	001A	6	1268 304 424	<b>119.152</b>	MAN	007A	44
1240 304 278	<b>160.116</b>	MAN	005B	18	1268 203 059		MAN	004A	6	1268 304 424	<b>119.152</b>	MAN	008A	44
1240 304 278	<b>160.116</b>	MAN	006B	17	1268 298 938	<b>198.339</b>	MB	001A	60	1268 304 424	<b>119.152</b>	IVE	011A	42
1240 304 278	<b>160.116</b>	MAN	007B	17	1268 298 938	<b>198.339</b>	MB	001B	46	1268 304 424	<b>119.152</b>	IVE	012A	44
1240 304 278	<b>160.116</b>	MAN	008B	20	1268 298 938	<b>198.339</b>	MB	002A	68	1268 304 424	<b>119.152</b>	IVE	013A	44

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1268 304 424	<b>119.152</b>	RVI	016A 44	1269 332 036	<b>107.089</b>	MB	001B 2	1295 202 036	190.168	IVE	009A 19
1268 304 424	<b>119.152</b>	RVI	017A 44	1269 332 036	<b>107.089</b>	MB	002B 2	1295 202 039	102.254	MAN	004A 15
1268 304 424	<b>119.152</b>	DAF	021A 42	1269 332 036	<b>107.089</b>	MB	002B 2	1295 202 039	102.254	MAN	005A 11
1268 304 424	<b>119.152</b>	DAF	022A 44	1269 332 036	<b>107.089</b>	MAN	004B 2	1295 202 041	<b>280.348</b>	MB	001A 8
1268 304 424	<b>119.152</b>	DAF	023A 44	1269 332 036	<b>107.089</b>	MAN	005B 2	1295 202 041	<b>280.348</b>	MB	002A 3
1268 304 476	See	1312 304 159		1269 332 036	<b>107.089</b>	IVE	009B 2	1295 202 041	<b>280.348</b>	MB	003A 3
1268 304 491	See	1268 304 494		1269 332 036	<b>107.089</b>	RVI	014B 2	1295 202 041	<b>280.348</b>	MAN	004A 8
1268 304 494	<b>119.153</b>	MB	003A 43	1269 332 036	<b>107.089</b>	DAF	019B 2	1295 202 041	<b>280.348</b>	MAN	005A 3
1268 304 494	<b>119.153</b>	MAN	006A 43	1269 332 036	<b>107.089</b>	DAF	019B 2	1295 202 041	<b>280.348</b>	MAN	006A 3
1268 304 494	<b>119.153</b>	MAN	007A 45	1269 332 036	<b>107.089</b>	DAF	020B 2	1295 202 041	<b>280.348</b>	IVE	009A 3
1268 304 494	<b>119.153</b>	MAN	008A 45	1269 332 036	<b>107.089</b>	DAF	020B 2	1295 202 041	<b>280.348</b>	IVE	010A 3
1268 304 494	<b>119.153</b>	IVE	011A 43	1269 332 036	<b>107.089</b>	VOL	024B 2	1295 202 041	<b>280.348</b>	IVE	011A 3
1268 304 494	<b>119.153</b>	IVE	012A 45	1272 304 021	188.076	MB	001A 46	1295 202 041	<b>280.348</b>	RVI	014A 3
1268 304 494	<b>119.153</b>	IVE	013A 45	1272 304 021	188.076	MB	002A 53	1295 202 041	<b>280.348</b>	RVI	015A 3
1268 304 494	<b>119.153</b>	RVI	016A 45	1272 304 021	188.076	MAN	004A 46	1295 202 041	<b>280.348</b>	DAF	018A 8
1268 304 494	<b>119.153</b>	RVI	017A 45	1272 304 021	188.076	MAN	005A 53	1295 202 041	<b>280.348</b>	DAF	019A 3
1268 304 494	<b>119.153</b>	DAF	021A 43	1272 304 021	188.076	IVE	009A 53	1295 202 041	<b>280.348</b>	DAF	020A 3
1268 304 494	<b>119.153</b>	DAF	022A 45	1272 304 021	188.076	IVE	010A 56	1295 202 041	<b>280.348</b>	DAF	021A 3
1268 304 494	<b>119.153</b>	DAF	023A 45	1272 304 021	188.076	RVI	014A 53	1295 202 041	<b>280.348</b>	VOL	024A 3
1268 304 510	See	1297 304 436		1272 304 021	188.076	DAF	018A 46	1295 202 041	<b>280.348</b>	VOL	025A 3
1268 304 525	<b>119.144</b>	MB	003A 44	1272 304 021	188.076	DAF	019A 53	1295 202 052		DAF	020A 11
1268 304 525	<b>119.144</b>	MAN	006A 44	1272 304 021	188.076	DAF	020A 56	1295 202 054	See	1295 202 041	
1268 304 525	<b>119.144</b>	MAN	007A 46	1272 304 021	188.076	VOL	024A 53	1295 206 047	See	1295 206 213	
1268 304 525	<b>119.144</b>	MAN	008A 46	1272 304 021	188.076	VOL	025A 56	1295 206 053	See	1295 206 255	
1268 304 525	<b>119.144</b>	IVE	011A 44	1286 304 026	155.135	MB	002A 23	1295 206 059		MAN	005B 32
1268 304 525	<b>119.144</b>	IVE	012A 46	1286 304 026	155.135	MAN	005A 23	1295 206 065	See	1295 206 213	
1268 304 525	<b>119.144</b>	IVE	013A 46	1286 304 026	155.135	IVE	009A 23	1295 206 182		MB	001B 31
1268 304 525	<b>119.144</b>	RVI	016A 46	1286 304 026	155.135	IVE	010A 23	1295 206 182		MAN	004B 31
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1268 304 525	<b>119.144</b>	DAF	022A 46	1295 202 004	102.230	MAN	005A 11	1295 206 188		MB	001B 31
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1268 304 570		DAF	020A 45	1295 202 004	102.230	DAF	019A 11	1295 206 189		MB	001B 30
1269 202 087	See	1295 202 041		1295 202 005	102.250	DAF	019A 11	1295 206 189		MAN	004B 30
1269 302 065	188.078	MB	002A 24	1295 202 005	102.250	DAF	020A 11	1295 206 201	See	1295 206 255	
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1269 302 065	188.078	IVE	009A 24	1295 202 007	102.232	MAN	005A 11	1295 206 212		MAN	005B 30
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1269 302 164		MB	002A 26	1295 202 011	102.252	DAF	019A 11	1295 206 212		RVI	014B 30
1269 302 164		MAN	005A 26	1295 202 012	102.253	IVE	009A 11	1295 206 212		DAF	019B 30
1269 302 164		IVE	009A 26	1295 202 019		MB	002A 11	1295 206 212		DAF	020B 30
1269 302 164		IVE	010A 26	1295 202 025		IVE	009A 11	1295 206 212		VOL	024B 30
1269 332 025	See	1269 332 036		1295 202 028	<b>102.221</b>	MB	002A 11	1295 206 213	198.362	MB	002B 30

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1295 206 213	198.362	IVE	009B	30	1295 206 250		MB	002B	32	1295 221 003		IVE	009A	11
1295 206 213	198.362	RVI	014B	30	1295 206 250		MAN	005B	32	1295 221 003		RVI	014A	11
1295 206 213	198.362	DAF	019B	30	1295 206 250		IVE	009B	32	1295 221 003		DAF	020A	11
1295 206 213	198.362	VOL	024B	30	1295 206 250		RVI	014B	32	1295 232 027	198.357	MB	001B	8
1295 206 214		MB	002B	31	1295 206 250		DAF	019B	32	1295 232 027	198.357	MB	002B	8
1295 206 214		MAN	005B	31	1295 206 250		VOL	024B	32	1295 232 027	198.357	MAN	004B	8
1295 206 214		IVE	009B	31	1295 206 252		MB	001B	32	1295 232 027	198.357	MAN	005B	8
1295 206 214		RVI	014B	31	1295 206 252		MAN	004B	32	1295 232 027	198.357	IVE	009B	8
1295 206 214		DAF	019B	31	1295 206 253		MB	001B	32	1295 232 027	198.357	RVI	014B	8
1295 206 214		VOL	024B	31	1295 206 253		MAN	004B	32	1295 232 027	198.357	DAF	019B	8
1295 206 215		MB	002B	31	1295 206 254		MB	002B	32	1295 232 027	198.357	DAF	019B	8
1295 206 215		MAN	005B	31	1295 206 254		MAN	005B	32	1295 232 027	198.357	DAF	020B	8
1295 206 215		IVE	009B	31	1295 206 254		IVE	009B	32	1295 232 027	198.357	DAF	020B	8
1295 206 215		RVI	014B	31	1295 206 254		RVI	014B	32	1295 232 027	198.357	VOL	024B	8
1295 206 215		DAF	019B	31	1295 206 254		DAF	019B	32	1295 232 028	See	1295 232 044		
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1295 206 215		VOL	024B	31	1295 206 254		VOL	024B	32	1295 232 038	198.437	MB	001B	8
1295 206 217		MB	002B	31	1295 206 255	198.360	MB	002B	32	1295 232 038	198.437	MAN	004B	8
1295 206 217		MAN	005B	31	1295 206 255	198.360	MAN	005B	32	1295 232 044	190.169	MB	001B	1
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1295 206 217		DAF	020B	31	1295 206 255	198.360	VOL	024B	32	1295 232 044	190.169	IVE	009B	1
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1295 206 223		IVE	009B	31	1295 212 008	280.350	VOL	024B	40	1295 232 048	See	1295 232 044		
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1295 206 249		DAF	019B	32	1295 221 001		MAN	005A	11	1295 233 025	198.359	IVE	009B	22
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1295 233 025	<b>198.359</b>	DAF	019B 22	1295 298 933	<b>198.842</b>	MB	001A 62	1295 298 960	<b>198.428</b>	IVE	010A 74
1295 233 025	<b>198.359</b>	DAF	019B 22	1295 298 933	<b>198.842</b>	MB	001B 48	1295 298 960	<b>198.428</b>	IVE	010B 50
1295 233 025	<b>198.359</b>	DAF	020B 22	1295 298 933	<b>198.842</b>	MB	002A 70	1295 298 960	<b>198.428</b>	RVI	014A 71
1295 233 025	<b>198.359</b>	DAF	020B 22	1295 298 933	<b>198.842</b>	MB	002B 48	1295 298 960	<b>198.428</b>	RVI	014B 50
1295 233 025	<b>198.359</b>	VOL	024B 22	1295 298 933	<b>198.842</b>	MB	003B 48	1295 298 960	<b>198.428</b>	DAF	019A 71
1295 234 031	See	1312 234 002		1295 298 933	<b>198.842</b>	MAN	004A 62	1295 298 960	<b>198.428</b>	DAF	019B 50
1295 238 003		MB	002B 27	1295 298 933	<b>198.842</b>	MAN	004B 48	1295 298 960	<b>198.428</b>	DAF	020A 74
1295 238 003		MB	002B 27	1295 298 933	<b>198.842</b>	MAN	005A 70	1295 298 960	<b>198.428</b>	DAF	020B 50
1295 238 003		MAN	005B 27	1295 298 933	<b>198.842</b>	MAN	005B 48	1295 298 960	<b>198.428</b>	VOL	024A 71
1295 238 003		IVE	009B 27	1295 298 933	<b>198.842</b>	MAN	006B 48	1295 298 960	<b>198.428</b>	VOL	024B 50
1295 238 003		RVI	014B 27	1295 298 933	<b>198.842</b>	MAN	007B 50	1295 298 960	<b>198.428</b>	VOL	025A 74
1295 238 003		DAF	019B 27	1295 298 933	<b>198.842</b>	MAN	008B 52	1295 298 960	<b>198.428</b>	VOL	025B 50
1295 238 003		DAF	019B 27	1295 298 933	<b>198.842</b>	IVE	009A 70	1295 302 070	145.489	MB	001A 12
1295 238 003		VOL	024B 27	1295 298 933	<b>198.842</b>	IVE	009B 48	1295 302 070	145.489	MB	002A 8
1295 298 915	<b>198.427</b>	MB	002A 72	1295 298 933	<b>198.842</b>	IVE	010A 72	1295 302 070	145.489	MAN	004A 12
1295 298 915	<b>198.427</b>	MB	002B 51	1295 298 933	<b>198.842</b>	IVE	010B 49	1295 302 070	145.489	MAN	005A 8
1295 298 915	<b>198.427</b>	MB	003A 69	1295 298 933	<b>198.842</b>	IVE	011B 48	1295 302 070	145.489	IVE	009A 8
1295 298 915	<b>198.427</b>	MB	003B 50	1295 298 933	<b>198.842</b>	IVE	012B 50	1295 302 070	145.489	RVI	014A 8
1295 298 915	<b>198.427</b>	MAN	005A 72	1295 298 933	<b>198.842</b>	IVE	013B 52	1295 302 070	145.489	DAF	019A 8
1295 298 915	<b>198.427</b>	MAN	005B 51	1295 298 933	<b>198.842</b>	RVI	014A 70	1295 302 070	145.489	DAF	020A 8
1295 298 915	<b>198.427</b>	MAN	006A 69	1295 298 933	<b>198.842</b>	RVI	014B 48	1295 302 070	145.489	VOL	024A 8
1295 298 915	<b>198.427</b>	MAN	006B 50	1295 298 933	<b>198.842</b>	RVI	015B 48	1295 302 071	<b>145.276</b>	MB	001A 12
1295 298 915	<b>198.427</b>	IVE	009A 72	1295 298 933	<b>198.842</b>	RVI	016B 50	1295 302 071	<b>145.276</b>	MB	002A 8
1295 298 915	<b>198.427</b>	IVE	009B 51	1295 298 933	<b>198.842</b>	RVI	017B 52	1295 302 071	<b>145.276</b>	MAN	004A 12
1295 298 915	<b>198.427</b>	IVE	010A 75	1295 298 933	<b>198.842</b>	DAF	018A 62	1295 302 071	<b>145.276</b>	MAN	005A 8
1295 298 915	<b>198.427</b>	IVE	010B 51	1295 298 933	<b>198.842</b>	DAF	018B 48	1295 302 071	<b>145.276</b>	IVE	009A 8
1295 298 915	<b>198.427</b>	IVE	011A 69	1295 298 933	<b>198.842</b>	DAF	019A 70	1295 302 071	<b>145.276</b>	RVI	014A 8
1295 298 915	<b>198.427</b>	IVE	011B 50	1295 298 933	<b>198.842</b>	DAF	019B 48	1295 302 071	<b>145.276</b>	DAF	019A 8
1295 298 915	<b>198.427</b>	RVI	014A 72	1295 298 933	<b>198.842</b>	DAF	020A 72	1295 302 071	<b>145.276</b>	DAF	020A 8
1295 298 915	<b>198.427</b>	RVI	014B 51	1295 298 933	<b>198.842</b>	DAF	020B 49	1295 302 071	<b>145.276</b>	VOL	024A 8
1295 298 915	<b>198.427</b>	RVI	015A 69	1295 298 933	<b>198.842</b>	DAF	021B 48	1295 302 074	<b>145.408</b>	MB	002A 8
1295 298 915	<b>198.427</b>	RVI	015B 50	1295 298 933	<b>198.842</b>	DAF	022B 50	1295 302 086	See	1295 202 004	
1295 298 915	<b>198.427</b>	DAF	019A 72	1295 298 933	<b>198.842</b>	DAF	023B 52	1295 302 087	See	1295 202 005	
1295 298 915	<b>198.427</b>	DAF	019B 51	1295 298 933	<b>198.842</b>	VOL	024A 70	1295 302 122	145.541	MB	001A 12
1295 298 915	<b>198.427</b>	DAF	020A 75	1295 298 933	<b>198.842</b>	VOL	024B 48	1295 302 122	145.541	MB	002A 8
1295 298 915	<b>198.427</b>	DAF	020B 51	1295 298 933	<b>198.842</b>	VOL	025A 72	1295 302 122	145.541	MAN	004A 12
1295 298 915	<b>198.427</b>	DAF	021A 69	1295 298 933	<b>198.842</b>	VOL	025B 49	1295 302 122	145.541	MAN	005A 8
1295 298 915	<b>198.427</b>	DAF	021B 50	1295 298 960	<b>198.428</b>	MB	002A 71	1295 302 122	145.541	IVE	009A 8
1295 298 915	<b>198.427</b>	VOL	024A 72	1295 298 960	<b>198.428</b>	MB	002B 50	1295 302 122	145.541	RVI	014A 8
1295 298 915	<b>198.427</b>	VOL	024B 51	1295 298 960	<b>198.428</b>	MAN	005A 71	1295 302 122	145.541	DAF	019A 8
1295 298 915	<b>198.427</b>	VOL	025A 75	1295 298 960	<b>198.428</b>	MAN	005B 50	1295 302 122	145.541	DAF	020A 8
1295 298 915	<b>198.427</b>	VOL	025B 51	1295 298 960	<b>198.428</b>	IVE	009A 71	1295 302 122	145.541	VOL	024A 8

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1295 303 005	146.467	MB	001A	52	1295 303 036	146.354	RVI	014A	58	1295 303 071		DAF	020A	63
1295 303 005	146.467	MAN	004A	52	1295 303 036	146.354	DAF	019A	58	1295 303 071		VOL	024A	60
1295 303 006	146.468	MB	001A	52	1295 303 036	146.354	DAF	020A	61	1295 303 072		MB	002A	61
1295 303 006	146.468	MAN	004A	52	1295 303 036	146.354	VOL	024A	58	1295 303 072		MAN	005A	61
1295 303 025	146.355	MB	002A	60	1295 303 037	See	1295 303 101			1295 303 072		IVE	009A	61
1295 303 025	146.355	MAN	005A	60	1295 303 042	105.121	MAN	004A	53	1295 303 072		RVI	014A	61
1295 303 025	146.355	IVE	009A	60	1295 303 045	105.105	MAN	005A	61	1295 303 072		DAF	019A	61
1295 303 025	146.355	RVI	014A	60	1295 303 045	105.105	DAF	019A	61	1295 303 072		DAF	020A	64
1295 303 025	146.355	DAF	019A	60	1295 303 053	See	1295 303 066			1295 303 072		VOL	024A	61
1295 303 025	146.355	DAF	020A	63	1295 303 054	See	1295 303 067			1295 303 089		MB	001A	53
1295 303 025	146.355	VOL	024A	60	1295 303 055	105.122	MB	001A	53	1295 303 089		MAN	004A	53
1295 303 026	146.211	MB	002A	60	1295 303 055	105.122	MAN	004A	53	1295 303 094	146.461	MB	001A	51
1295 303 026	146.211	MAN	005A	60	1295 303 056	105.120	MB	001A	53	1295 303 094	146.461	MB	002A	59
1295 303 026	146.211	IVE	009A	60	1295 303 056	105.120	MAN	004A	53	1295 303 094	146.461	MAN	004A	51
1295 303 026	146.211	RVI	014A	60	1295 303 060	146.457	MB	001A	50	1295 303 094	146.461	MAN	005A	59
1295 303 026	146.211	DAF	019A	60	1295 303 060	146.457	MB	002A	58	1295 303 094	146.461	IVE	009A	59
1295 303 026	146.211	DAF	020A	63	1295 303 060	146.457	MAN	004A	50	1295 303 094	146.461	RVI	014A	59
1295 303 026	146.211	VOL	024A	60	1295 303 060	146.457	MAN	005A	58	1295 303 094	146.461	DAF	019A	59
1295 303 027	146.209	MB	001A	51	1295 303 060	146.457	IVE	009A	58	1295 303 094	146.461	DAF	020A	62
1295 303 027	146.209	MB	002A	59	1295 303 060	146.457	RVI	014A	58	1295 303 094	146.461	VOL	024A	59
1295 303 027	146.209	MAN	004A	51	1295 303 060	146.457	DAF	019A	58	1295 303 101	146.210	MB	001A	50
1295 303 027	146.209	MAN	005A	59	1295 303 060	146.457	DAF	020A	61	1295 303 101	146.210	MB	002A	58
1295 303 027	146.209	IVE	009A	59	1295 303 060	146.457	VOL	024A	58	1295 303 101	146.210	MAN	004A	50
1295 303 027	146.209	RVI	014A	59	1295 303 061	See	1295 303 094			1295 303 101	146.210	MAN	005A	58
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1295 303 027	146.209	DAF	020A	62	1295 303 066	105.060	MAN	005A	61	1295 303 101	146.210	RVI	014A	58
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1295 303 028	146.413	MB	001A	51	1295 303 066	105.060	RVI	014A	61	1295 303 101	146.210	DAF	020A	61
1295 303 028	146.413	MB	002A	59	1295 303 066	105.060	DAF	019A	61	1295 303 101	146.210	VOL	024A	58
1295 303 028	146.413	MAN	004A	51	1295 303 066	105.060	DAF	020A	64	1295 304 002	154.097	MB	001A	21
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1295 303 028	146.413	IVE	009A	59	1295 303 067	105.119	MB	002A	61	1295 304 002	154.097	MB	002A	34
1295 303 028	146.413	RVI	014A	59	1295 303 067	105.119	MAN	005A	61	1295 304 002	154.097	MB	002A	43
1295 303 028	146.413	DAF	019A	59	1295 303 067	105.119	IVE	009A	61	1295 304 002	154.097	MAN	004A	21
1295 303 028	146.413	DAF	020A	62	1295 303 067	105.119	RVI	014A	61	1295 304 002	154.097	MAN	005A	17
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1295 303 031		MAN	004A	2	1295 303 067	105.119	VOL	024A	61	1295 304 002	154.097	IVE	009A	17
1295 303 036	146.354	MB	001A	50	1295 303 071		MB	002A	60	1295 304 002	154.097	IVE	009A	34
1295 303 036	146.354	MB	002A	58	1295 303 071		MAN	005A	60	1295 304 002	154.097	IVE	009A	43
1295 303 036	146.354	MAN	004A	50	1295 303 071		IVE	009A	60	1295 304 002	154.097	IVE	010A	17
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1295 304 002	<b>154.097</b>	RVI	014A 43	1295 304 012	117.203	DAF	019A 47	1295 304 128	<b>145.277</b>	MAN	005A 35
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1295 304 002	<b>154.097</b>	DAF	019A 17	1295 304 012	117.203	DAF	020A 50	1295 304 128	<b>145.277</b>	RVI	014A 35
1295 304 002	<b>154.097</b>	DAF	019A 34	1295 304 012	117.203	VOL	024A 47	1295 304 128	<b>145.277</b>	DAF	019A 35
1295 304 002	<b>154.097</b>	DAF	019A 43	1295 304 024	109.184	MB	002A 46	1295 304 128	<b>145.277</b>	DAF	020A 37
1295 304 002	<b>154.097</b>	DAF	020A 17	1295 304 024	109.184	MAN	004A 38	1295 304 128	<b>145.277</b>	VOL	024A 35
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1295 304 002	<b>154.097</b>	VOL	024A 43	1295 304 024	109.184	IVE	009A 46	1295 304 129		MB	002A 55
1295 304 002	<b>154.097</b>	VOL	025A 17	1295 304 024	109.184	RVI	014A 46	1295 304 129		MAN	004A 47
1295 304 004	<b>119.084</b>	MB	001A 14	1295 304 024	109.184	DAF	019A 46	1295 304 129		MAN	005A 55
1295 304 004	<b>119.084</b>	MB	002A 10	1295 304 024	109.184	DAF	019A 46	1295 304 129		IVE	009A 55
1295 304 004	<b>119.084</b>	MB	002A 32	1295 304 024	109.184	DAF	020A 49	1295 304 129		RVI	014A 55
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1295 304 004	<b>119.084</b>	MAN	005A 10	1295 304 115	147.152	MAN	005A 49	1295 304 129		DAF	019A 55
1295 304 004	<b>119.084</b>	MAN	005A 32	1295 304 115	147.152	DAF	019A 49	1295 304 129		DAF	020A 58
1295 304 004	<b>119.084</b>	MAN	005A 41	1295 304 120	145.501	MB	002A 39	1295 304 129		DAF	020A 58
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1295 304 004	<b>119.084</b>	RVI	014A 32	1295 304 120	145.501	VOL	024A 39	1295 304 135	<b>146.212</b>	DAF	019A 30
1295 304 004	<b>119.084</b>	RVI	014A 41	1295 304 121	<b>145.278</b>	MB	002A 39	1295 304 135	<b>146.212</b>	DAF	020A 30
1295 304 004	<b>119.084</b>	DAF	018A 14	1295 304 121	<b>145.278</b>	MAN	005A 39	1295 304 135	<b>146.212</b>	VOL	024A 30
1295 304 004	<b>119.084</b>	DAF	019A 10	1295 304 121	<b>145.278</b>	IVE	009A 39	1295 304 136	<b>146.356</b>	MB	002A 30
1295 304 004	<b>119.084</b>	DAF	019A 32	1295 304 121	<b>145.278</b>	RVI	014A 39	1295 304 136	<b>146.356</b>	MAN	005A 30
1295 304 004	<b>119.084</b>	DAF	019A 41	1295 304 121	<b>145.278</b>	DAF	019A 39	1295 304 136	<b>146.356</b>	IVE	009A 30
1295 304 004	<b>119.084</b>	DAF	020A 10	1295 304 121	<b>145.278</b>	DAF	020A 41	1295 304 136	<b>146.356</b>	RVI	014A 30
1295 304 004	<b>119.084</b>	VOL	024A 10	1295 304 121	<b>145.278</b>	VOL	024A 39	1295 304 136	<b>146.356</b>	DAF	019A 30
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1295 304 184	145.546	MB	001A	32	1295 304 205	145.550	MB	001A	37	1295 304 245	103.075	VOL	024A	37
1295 304 184	145.546	MAN	004A	32	1295 304 205	145.550	MAN	004A	37	1295 304 247	157.211	MB	001A	43
1295 304 185	145.547	MB	001A	32	1295 304 206	109.075	MB	001A	38	1295 304 247	157.211	MB	002A	51
1295 304 185	145.547	MAN	004A	32	1295 304 206	109.075	MB	002A	46	1295 304 247	157.211	MAN	004A	43
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1295 304 187	145.552	MAN	004A	29	1295 304 206	109.075	MAN	004A	38	1295 304 247	157.211	DAF	020A	54
1295 304 188	145.551	MB	001A	29	1295 304 206	109.075	MAN	005A	46	1295 304 248	157.112	MB	002A	51
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1295 304 200	147.093	MB	001A	41	1295 304 206	109.075	DAF	019A	46	1295 304 248	157.112	RVI	014A	51
1295 304 200	147.093	MB	002A	49	1295 304 206	109.075	DAF	019A	46	1295 304 248	157.112	DAF	019A	51
1295 304 200	147.093	MAN	004A	41	1295 304 206	109.075	DAF	020A	49	1295 304 248	157.112	DAF	020A	54
1295 304 200	147.093	MAN	005A	49	1295 304 206	109.075	DAF	020A	49	1295 304 248	157.112	VOL	024A	51
1295 304 200	147.093	IVE	009A	49	1295 304 206	109.075	VOL	024A	46	1295 304 250	103.140	MB	002A	37
1295 304 200	147.093	RVI	014A	49	1295 304 234	157.208	MB	001A	27	1295 304 250	103.140	MAN	005A	37
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1295 304 200	147.093	DAF	020A	52	1295 304 235	157.197	MB	001A	33	1295 304 250	103.140	RVI	014A	37
1295 304 200	147.093	VOL	024A	49	1295 304 235	157.197	MAN	004A	33	1295 304 250	103.140	DAF	019A	37
1295 304 201	147.138	MB	001A	41	1295 304 235	157.197	DAF	018A	33	1295 304 250	103.140	DAF	020A	39
1295 304 201	147.138	MB	002A	49	1295 304 236	146.454	MB	002A	30	1295 304 250	103.140	VOL	024A	37
1295 304 201	147.138	MAN	004A	41	1295 304 236	146.454	MAN	005A	30	1295 304 251	157.207	MB	001A	44
1295 304 201	147.138	MAN	005A	49	1295 304 236	146.454	IVE	009A	30	1295 304 251	157.207	MB	002A	52
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1295 304 201	147.138	DAF	019A	49	1295 304 236	146.454	DAF	020A	30	1295 304 251	157.207	IVE	009A	52
1295 304 201	147.138	DAF	020A	52	1295 304 236	146.454	VOL	024A	30	1295 304 251	157.207	RVI	014A	52
1295 304 201	147.138	VOL	024A	49	1295 304 240	169.409	MB	002A	50	1295 304 251	157.207	DAF	019A	52
1295 304 202	145.279	MB	002A	45	1295 304 240	169.409	MAN	005A	50	1295 304 251	157.207	DAF	020A	55
1295 304 202	145.279	MAN	005A	45	1295 304 240	169.409	IVE	009A	50	1295 304 251	157.207	VOL	024A	52
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1295 304 202	145.279	VOL	024A	45	1295 304 241		MB	001A	42	1295 304 269		DAF	019A	35
1295 304 203	145.506	MB	002A	45	1295 304 241		MAN	004A	42	1295 304 269		DAF	020A	37
1295 304 203	145.506	MAN	005A	45	1295 304 243	103.141	MB	001A	31	1295 304 269		VOL	024A	35
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1295 304 203	145.506	RVI	014A	45	1295 304 245	103.075	MB	002A	37	1295 304 270		MAN	005A	45
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1295 304 271		DAF 019A 39	1295 304 278	<b>109.072</b>	DAF 019A 31	1295 305 052	147.094	IVE 009A 65
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1295 304 272		MB 002A 49	1295 304 278	<b>109.072</b>	DAF 020A 18	1295 305 052	147.094	DAF 018A 57
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1295 304 272		IVE 009A 49	1295 304 278	<b>109.072</b>	VOL 024A 18	1295 305 052	147.094	DAF 019A 65
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1295 304 272		DAF 019A 49	1295 304 278	<b>109.072</b>	VOL 024A 40	1295 305 052	147.094	DAF 020A 68
1295 304 272		DAF 020A 52	1295 304 278	<b>109.072</b>	VOL 025A 9	1295 305 052	147.094	DAF 020A 68
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1295 304 273		DAF 019A 37	1295 305 008	See	1295 305 056	1295 305 056	107.108	MB 002A 63
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1295 304 278	<b>109.072</b>	MB 002A 9	1295 305 051	147.133	MAN 004A 57	1295 305 056	107.108	IVE 009A 63
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1295 304 278	<b>109.072</b>	MB 002A 31	1295 305 051	147.133	MAN 005A 65	1295 305 056	107.108	IVE 011A 63
1295 304 278	<b>109.072</b>	MB 002A 40	1295 305 051	147.133	IVE 009A 65	1295 305 056	107.108	RVI 014A 63
1295 304 278	<b>109.072</b>	MAN 004A 13	1295 305 051	147.133	IVE 009A 65	1295 305 056	107.108	RVI 015A 63
1295 304 278	<b>109.072</b>	MAN 004A 22	1295 305 051	147.133	IVE 010A 68	1295 305 056	107.108	DAF 018A 55
1295 304 278	<b>109.072</b>	MAN 005A 9	1295 305 051	147.133	RVI 014A 65	1295 305 056	107.108	DAF 019A 63
1295 304 278	<b>109.072</b>	MAN 005A 18	1295 305 051	147.133	DAF 018A 57	1295 305 056	107.108	DAF 020A 66
1295 304 278	<b>109.072</b>	MAN 005A 31	1295 305 051	147.133	DAF 019A 65	1295 305 056	107.108	DAF 021A 63
1295 304 278	<b>109.072</b>	MAN 005A 40	1295 305 051	147.133	DAF 019A 65	1295 305 056	107.108	VOL 024A 63
1295 304 278	<b>109.072</b>	IVE 009A 9	1295 305 051	147.133	DAF 019A 65	1295 305 056	107.108	VOL 025A 66
1295 304 278	<b>109.072</b>	IVE 009A 18	1295 305 051	147.133	DAF 020A 68	1295 306 132	<b>141.068</b>	MB 001B 29
1295 304 278	<b>109.072</b>	IVE 009A 31	1295 305 051	147.133	DAF 020A 68	1295 306 132	<b>141.068</b>	MB 002B 29
1295 304 278	<b>109.072</b>	IVE 009A 40	1295 305 051	147.133	VOL 024A 65	1295 306 132	<b>141.068</b>	MAN 004B 29
1295 304 278	<b>109.072</b>	IVE 010A 9	1295 305 051	147.133	VOL 024A 65	1295 306 132	<b>141.068</b>	MAN 005B 29
1295 304 278	<b>109.072</b>	IVE 010A 18	1295 305 051	147.133	VOL 025A 68	1295 306 132	<b>141.068</b>	IVE 009B 29
1295 304 278	<b>109.072</b>	RVI 014A 9	1295 305 052	147.094	MB 001A 57	1295 306 132	<b>141.068</b>	IVE 010B 33
1295 304 278	<b>109.072</b>	RVI 014A 18	1295 305 052	147.094	MB 002A 65	1295 306 132	<b>141.068</b>	RVI 014B 29
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1295 306 132	<b>141.068</b>	DAF	019B	29	1295 332 051	188.077	VOL	025B	28	1295 332 086	123.208	RVI	016B	9
1295 306 132	<b>141.068</b>	DAF	020B	33	1295 332 053	123.162	MB	001B	10	1295 332 086	123.208	RVI	016B	9
1295 306 132	<b>141.068</b>	VOL	024B	29	1295 332 053	123.162	MB	002B	10	1295 332 086	123.208	DAF	018B	10
1295 306 132	<b>141.068</b>	VOL	025B	33	1295 332 053	123.162	MB	002B	10	1295 332 086	123.208	DAF	019B	10
1295 306 143	See	1295 206 213			1295 332 053	123.162	MAN	004B	10	1295 332 086	123.208	DAF	019B	10
1295 312 017		MB	001B	34	1295 332 053	123.162	MAN	005B	10	1295 332 086	123.208	DAF	020B	10
1295 312 017		MAN	004B	34	1295 332 053	123.162	IVE	009B	10	1295 332 086	123.208	DAF	020B	10
1295 312 018	149.172	MB	002B	34	1295 332 053	123.162	RVI	014B	10	1295 332 086	123.208	DAF	021B	9
1295 312 018	149.172	MAN	005B	34	1295 332 053	123.162	DAF	019B	10	1295 332 086	123.208	DAF	021B	9
1295 312 018	149.172	IVE	009B	34	1295 332 053	123.162	DAF	019B	10	1295 332 086	123.208	DAF	022B	9
1295 312 018	149.172	RVI	014B	34	1295 332 053	123.162	DAF	020B	10	1295 332 086	123.208	DAF	022B	9
1295 312 018	149.172	DAF	019B	34	1295 332 053	123.162	DAF	020B	10	1295 332 086	123.208	VOL	024B	10
1295 312 018	149.172	DAF	020B	35	1295 332 053	123.162	VOL	024B	10	1295 332 086	123.208	VOL	024B	10
1295 312 018	149.172	VOL	024B	34	1295 332 064		MB	002B	28	1295 332 086	123.208	VOL	025B	10
1295 332 016	See	1295 232 027			1295 332 064		MAN	005B	28	1295 334 075	<b>132.047</b>	MB	001B	45
1295 332 021	150.112	MB	001B	11	1295 332 064		IVE	009B	28	1295 334 075	<b>132.047</b>	MB	002B	45
1295 332 021	150.112	MB	002B	11	1295 332 064		RVI	014B	28	1295 334 075	<b>132.047</b>	MB	003B	44
1295 332 021	150.112	MB	002B	11	1295 332 064		DAF	019B	28	1295 334 075	<b>132.047</b>	MAN	004B	45
1295 332 021	150.112	MAN	004B	11	1295 332 064		VOL	024B	28	1295 334 075	<b>132.047</b>	MAN	005B	45
1295 332 021	150.112	MAN	005B	11	1295 332 084	150.142	MB	001B	11	1295 334 075	<b>132.047</b>	MAN	006B	44
1295 332 021	150.112	IVE	009B	11	1295 332 084	150.142	MAN	004B	11	1295 334 075	<b>132.047</b>	IVE	009B	45
1295 332 021	150.112	RVI	014B	11	1295 332 086	123.208	MB	001B	10	1295 334 075	<b>132.047</b>	IVE	010B	46
1295 332 021	150.112	DAF	019B	11	1295 332 086	123.208	MB	001B	10	1295 334 075	<b>132.047</b>	IVE	011B	44
1295 332 021	150.112	DAF	019B	11	1295 332 086	123.208	MB	002B	10	1295 334 075	<b>132.047</b>	RVI	014B	45
1295 332 021	150.112	DAF	020B	11	1295 332 086	123.208	MB	002B	10	1295 334 075	<b>132.047</b>	RVI	015B	44
1295 332 021	150.112	DAF	020B	11	1295 332 086	123.208	MB	003B	9	1295 334 075	<b>132.047</b>	DAF	018B	45
1295 332 021	150.112	VOL	024B	11	1295 332 086	123.208	MAN	004B	10	1295 334 075	<b>132.047</b>	DAF	019B	45
1295 332 028	See	1295 332 053			1295 332 086	123.208	MAN	004B	10	1295 334 075	<b>132.047</b>	DAF	020B	46
1295 332 051	188.077	MB	001B	28	1295 332 086	123.208	MAN	005B	10	1295 334 075	<b>132.047</b>	DAF	021B	44
1295 332 051	188.077	MB	002B	28	1295 332 086	123.208	MAN	005B	10	1295 334 075	<b>132.047</b>	VOL	024B	45
1295 332 051	188.077	MAN	004B	28	1295 332 086	123.208	MAN	006B	9	1295 334 075	<b>132.047</b>	VOL	025B	46
1295 332 051	188.077	MAN	005B	28	1295 332 086	123.208	MAN	006B	9	1295 338 014	197.051	MB	001B	27
1295 332 051	188.077	MAN	006B	27	1295 332 086	123.208	MAN	007B	9	1295 338 014	197.051	MB	002B	27
1295 332 051	188.077	IVE	009B	28	1295 332 086	123.208	MAN	007B	9	1295 338 014	197.051	MB	002B	27
1295 332 051	188.077	IVE	010B	28	1295 332 086	123.208	IVE	009B	10	1295 338 014	197.051	MAN	004B	27
1295 332 051	188.077	IVE	011B	27	1295 332 086	123.208	IVE	009B	10	1295 338 014	197.051	MAN	005B	27
1295 332 051	188.077	RVI	014B	28	1295 332 086	123.208	IVE	010B	10	1295 338 014	197.051	IVE	009B	27
1295 332 051	188.077	RVI	015B	27	1295 332 086	123.208	IVE	011B	9	1295 338 014	197.051	RVI	014B	27
1295 332 051	188.077	DAF	018B	28	1295 332 086	123.208	IVE	011B	9	1295 338 014	197.051	DAF	019B	27
1295 332 051	188.077	DAF	019B	28	1295 332 086	123.208	IVE	012B	9	1295 338 014	197.051	DAF	019B	27
1295 332 051	188.077	DAF	020B	28	1295 332 086	123.208	IVE	012B	9	1295 338 014	197.051	DAF	020B	27
1295 332 051	188.077	DAF	021B	27	1295 332 086	123.208	RVI	014B	10	1295 338 014	197.051	VOL	024B	27
1295 332 051	188.077	VOL	024B	28	1295 332 086	123.208	RVI	015B	9	1295 338 016	197.074	MB	002B	27

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1295 338 016	197.074	IVE	009B 27	1296 206 077		MB	002B 32	1296 298 904	198.562	DAF	020B 9
1295 338 016	197.074	RVI	014B 27	1296 206 077		DAF	019B 32	1296 298 904	198.562	DAF	020B 9
1295 338 016	197.074	DAF	019B 27	1296 206 078		MB	002B 32	1296 298 904	198.562	VOL	024B 9
1295 338 016	197.074	VOL	024B 27	1296 206 078		DAF	019B 32	1296 301 006	See	1296 301 067	
1295 338 028		MB	002B 27	1296 206 078		DAF	020B 32	1296 301 038	See	1315 301 220	
1295 338 028		MAN	005B 27	1296 221 001		MB	002A 11	1296 301 067		MB	002B 25
1295 338 028		IVE	009B 27	1296 221 001		DAF	019A 11	1296 301 067		MB	002B 25
1295 338 028		RVI	014B 27	1296 221 002		MB	002A 11	1296 301 067		MAN	004B 25
1295 338 028		DAF	019B 27	1296 232 002	190.393	MAN	006B 1	1296 301 067		MAN	005B 25
1295 338 028		VOL	024B 27	1296 232 002	190.393	MAN	007B 1	1296 301 067		MAN	005B 25
1295 338 059		MB	002B 27	1296 232 002	190.393	IVE	011B 1	1296 301 067		IVE	009B 25
1295 338 059		MB	002B 27	1296 232 002	190.393	IVE	012B 1	1296 301 067		IVE	009B 25
1295 338 059		MAN	005B 27	1296 232 002	190.393	RVI	015B 1	1296 301 067		IVE	010B 25
1295 338 059		IVE	009B 27	1296 232 002	190.393	RVI	016B 1	1296 301 067		IVE	010B 25
1295 338 059		RVI	014B 27	1296 232 002	190.393	DAF	021B 1	1296 301 067		RVI	014B 25
1295 338 059		DAF	019B 27	1296 232 002	190.393	DAF	022B 1	1296 301 067		DAF	018B 25
1295 338 059		DAF	019B 27	1296 233 005	See	1296 233 006		1296 301 067		DAF	019B 25
1295 338 059		VOL	024B 27	1296 233 006	<b>198.358</b>	MB	001B 15	1296 301 067		DAF	019B 25
1295 338 061		MB	001B 27	1296 233 006	<b>198.358</b>	MB	002B 15	1296 301 067		DAF	020B 25
1295 338 061		MB	002B 27	1296 233 006	<b>198.358</b>	MB	003B 14	1296 301 067		VOL	024B 25
1295 338 061		MB	002B 27	1296 233 006	<b>198.358</b>	MAN	004B 15	1296 301 067		VOL	025B 25
1295 338 061		MAN	004B 27	1296 233 006	<b>198.358</b>	MAN	005B 15	1296 301 140	See	1315 301 220	
1295 338 061		MAN	005B 27	1296 233 006	<b>198.358</b>	MAN	006B 14	1296 302 002	145.535	MB	002A 8
1295 338 061		IVE	009B 27	1296 233 006	<b>198.358</b>	IVE	009B 15	1296 302 002	145.535	DAF	019A 8
1295 338 061		RVI	014B 27	1296 233 006	<b>198.358</b>	IVE	010B 15	1296 302 003	<b>145.447</b>	MB	002A 8
1295 338 061		DAF	019B 27	1296 233 006	<b>198.358</b>	IVE	011B 14	1296 302 003	<b>145.447</b>	DAF	019A 8
1295 338 061		DAF	019B 27	1296 233 006	<b>198.358</b>	RVI	014B 15	1296 302 003	<b>145.447</b>	DAF	020A 8
1295 338 061		DAF	020B 27	1296 233 006	<b>198.358</b>	RVI	015B 14	1296 302 023	<b>145.448</b>	MB	002A 8
1295 338 061		VOL	024B 27	1296 233 006	<b>198.358</b>	DAF	018B 15	1296 302 002	<b>146.363</b>	MB	002A 59
1296 202 001	<b>102.222</b>	MB	002A 11	1296 233 006	<b>198.358</b>	DAF	019B 15	1296 303 002	<b>146.363</b>	DAF	019A 59
1296 202 004	102.248	MB	002A 11	1296 233 006	<b>198.358</b>	DAF	020B 15	1296 303 002	<b>146.363</b>	DAF	020A 62
1296 202 006	102.229	DAF	019A 11	1296 233 006	<b>198.358</b>	DAF	021B 14	1296 303 003	146.450	MB	002A 59
1296 202 006	102.229	DAF	020A 11	1296 233 006	<b>198.358</b>	VOL	024B 15	1296 303 003	146.450	DAF	019A 59
1296 206 061		MB	002B 30	1296 233 006	<b>198.358</b>	VOL	025B 15	1296 303 008	146.451	MB	002A 60
1296 206 061		DAF	019B 30	1296 298 904	198.562	MB	001B 9	1296 303 008	146.451	DAF	019A 60
1296 206 061		DAF	020B 30	1296 298 904	198.562	MB	002B 9	1296 303 009	<b>146.419</b>	MB	002A 60
1296 206 062		MB	002B 31	1296 298 904	198.562	MB	002B 9	1296 303 009	<b>146.419</b>	DAF	019A 60
1296 206 062		DAF	019B 31	1296 298 904	198.562	MAN	004B 9	1296 303 009	<b>146.419</b>	DAF	020A 63
1296 206 062		DAF	020B 31	1296 298 904	198.562	MAN	005B 9	1296 303 013	146.449	MB	002A 58
1296 206 063		MB	002B 31	1296 298 904	198.562	IVE	009B 9	1296 303 013	146.449	DAF	019A 58
1296 206 063		DAF	019B 31	1296 298 904	198.562	RVI	014B 9	1296 303 014	<b>146.364</b>	MB	002A 58
1296 206 064		MB	002B 30	1296 298 904	198.562	DAF	019B 9	1296 303 014	<b>146.364</b>	DAF	019A 58

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1296 303 014	<b>146.364</b>	DAF	020A	61	1296 304 100	145.538	MB	002A	45	1296 312 053	189.421	MAN	004B	37
1296 303 020	See	1296 303 025			1296 304 100	145.538	DAF	019A	45	1296 312 053	189.421	MAN	005B	37
1296 303 021	See	1296 303 026			1296 304 117	169.756	MB	002A	50	1296 312 053	189.421	IVE	009B	37
1296 303 025	<b>105.104</b>	MB	002A	61	1296 304 117	169.756	DAF	019A	50	1296 312 053	189.421	IVE	010B	38
1296 303 025	<b>105.104</b>	DAF	019A	61	1296 304 117	169.756	DAF	020A	53	1296 312 053	189.421	RVI	014B	37
1296 303 025	<b>105.104</b>	DAF	020A	64	1296 304 119	103.131	MB	002A	37	1296 312 053	189.421	DAF	018B	37
1296 303 026	105.117	MB	002A	61	1296 304 119	103.131	DAF	019A	37	1296 312 053	189.421	DAF	019B	37
1296 303 026	105.117	DAF	019A	61	1296 304 119	103.131	DAF	020A	39	1296 312 053	189.421	DAF	020B	38
1296 303 035	146.445	MAN	006A	60	1296 304 131	146.442	MAN	006A	26	1296 312 053	189.421	VOL	024B	37
1296 303 035	146.445	IVE	011A	60	1296 304 131	146.442	IVE	011A	26	1296 312 053	189.421	VOL	025B	38
1296 303 035	146.445	RVI	015A	60	1296 304 131	146.442	RVI	015A	26	1296 328 001	See	1296 333 022		
1296 303 035	146.445	DAF	021A	60	1296 304 131	146.442	DAF	021A	26	1296 328 002	See	1296 333 022		
1296 303 036	146.444	MAN	006A	59	1296 304 135	<b>119.125</b>	MB	002A	41	1296 332 005	107.164	MAN	006B	2
1296 303 036	146.444	IVE	011A	59	1296 304 135	<b>119.125</b>	MAN	005A	41	1296 332 005	107.164	MAN	007B	2
1296 303 036	146.444	RVI	015A	59	1296 304 135	<b>119.125</b>	IVE	009A	41	1296 332 005	107.164	IVE	011B	2
1296 303 036	146.444	DAF	021A	59	1296 304 135	<b>119.125</b>	RVI	014A	41	1296 332 005	107.164	IVE	012B	2
1296 303 037	146.443	MAN	006A	58	1296 304 135	<b>119.125</b>	DAF	019A	41	1296 332 005	107.164	RVI	015B	2
1296 303 037	146.443	IVE	011A	58	1296 304 135	<b>119.125</b>	VOL	024A	41	1296 332 005	107.164	RVI	016B	2
1296 303 037	146.443	RVI	015A	58	1296 312 001		MB	002B	34	1296 332 005	107.164	DAF	021B	2
1296 303 037	146.443	DAF	021A	58	1296 312 001		DAF	019B	34	1296 332 005	107.164	DAF	022B	2
1296 304 070	145.499	MB	002A	39	1296 312 001		DAF	020B	35	1296 333 002	<b>157.113</b>	MB	001B	17
1296 304 070	145.499	DAF	019A	39	1296 312 005	See	1296 312 053			1296 333 002	<b>157.113</b>	MB	002B	17
1296 304 070	145.499	DAF	020A	41	1296 312 016	See	1296 312 042			1296 333 002	<b>157.113</b>	MAN	004B	17
1296 304 071	145.537	MB	002A	39	1296 312 042	<b>132.046</b>	MB	001B	35	1296 333 002	<b>157.113</b>	MAN	005B	17
1296 304 071	145.537	DAF	019A	39	1296 312 042	<b>132.046</b>	MB	002B	35	1296 333 002	<b>157.113</b>	IVE	009B	17
1296 304 087	<b>145.494</b>	MB	002A	35	1296 312 042	<b>132.046</b>	MB	003B	35	1296 333 002	<b>157.113</b>	IVE	010B	17
1296 304 087	<b>145.494</b>	DAF	019A	35	1296 312 042	<b>132.046</b>	MAN	004B	35	1296 333 002	<b>157.113</b>	RVI	014B	17
1296 304 087	<b>145.494</b>	DAF	020A	37	1296 312 042	<b>132.046</b>	MAN	005B	35	1296 333 002	<b>157.113</b>	DAF	018B	17
1296 304 088	145.536	MB	002A	35	1296 312 042	<b>132.046</b>	MAN	006B	35	1296 333 002	<b>157.113</b>	DAF	019B	17
1296 304 088	145.536	DAF	019A	35	1296 312 042	<b>132.046</b>	IVE	009B	35	1296 333 002	<b>157.113</b>	DAF	020B	17
1296 304 090	<b>146.362</b>	MB	002A	30	1296 312 042	<b>132.046</b>	IVE	010B	36	1296 333 002	<b>157.113</b>	VOL	024B	17
1296 304 090	<b>146.362</b>	DAF	019A	30	1296 312 042	<b>132.046</b>	IVE	011B	35	1296 333 002	<b>157.113</b>	VOL	025B	17
1296 304 090	<b>146.362</b>	DAF	020A	30	1296 312 042	<b>132.046</b>	RVI	014B	35	1296 333 011	See	1296 333 023		
1296 304 091	146.448	MB	002A	30	1296 312 042	<b>132.046</b>	RVI	015B	35	1296 333 015	See	1296 333 002		
1296 304 091	146.448	DAF	019A	30	1296 312 042	<b>132.046</b>	DAF	018B	35	1296 333 022	<b>119.085</b>	MB	001B	16
1296 304 097	147.136	MB	002A	49	1296 312 042	<b>132.046</b>	DAF	019B	35	1296 333 022	<b>119.085</b>	MB	002B	16
1296 304 097	147.136	DAF	019A	49	1296 312 042	<b>132.046</b>	DAF	020B	36	1296 333 022	<b>119.085</b>	MB	003B	15
1296 304 097	147.136	DAF	020A	52	1296 312 042	<b>132.046</b>	DAF	021B	35	1296 333 022	<b>119.085</b>	MAN	004B	16
1296 304 098	147.151	MB	002A	49	1296 312 042	<b>132.046</b>	VOL	024B	35	1296 333 022	<b>119.085</b>	MAN	005B	16
1296 304 098	147.151	DAF	019A	49	1296 312 042	<b>132.046</b>	VOL	025B	36	1296 333 022	<b>119.085</b>	MAN	006B	15
1296 304 099	145.505	MB	002A	45	1296 312 047	See	1296 312 053			1296 333 022	<b>119.085</b>	MAN	007B	15
1296 304 099	145.505	DAF	019A	45	1296 312 053	189.421	MB	001B	37	1296 333 022	<b>119.085</b>	MAN	008B	18
1296 304 099	145.505	DAF	020A	48	1296 312 053	189.421	MB	002B	37	1296 333 022	<b>119.085</b>	IVE	009B	16

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Ref. ZF	Ref. CEI	OEM Tav.	Fig.	Ref. ZF	Ref. CEI	OEM Tav.	Fig.	Ref. ZF	Ref. CEI	OEM Tav.	Fig.
1296 333 022	119.085	IVE	010B 16	1296 333 045	119.172	MB	001B 16	1296 333 050	109.174	IVE	011B 53
1296 333 022	119.085	IVE	011B 15	1296 333 045	119.172	MB	002B 16	1296 333 050	109.174	IVE	012B 55
1296 333 022	119.085	IVE	012B 15	1296 333 045	119.172	MB	003B 15	1296 333 050	109.174	IVE	013B 17
1296 333 022	119.085	IVE	013B 18	1296 333 045	119.172	MAN	004B 16	1296 333 050	109.174	RVI	014B 54
1296 333 022	119.085	RVI	014B 16	1296 333 045	119.172	MAN	005B 16	1296 333 050	109.174	RVI	015B 53
1296 333 022	119.085	RVI	015B 15	1296 333 045	119.172	MAN	006B 15	1296 333 050	109.174	RVI	016B 55
1296 333 022	119.085	RVI	016B 15	1296 333 045	119.172	MAN	007B 15	1296 333 050	109.174	RVI	017B 17
1296 333 022	119.085	RVI	017B 18	1296 333 045	119.172	MAN	008B 18	1296 333 050	109.174	DAF	018B 52
1296 333 022	119.085	DAF	018B 16	1296 333 045	119.172	IVE	009B 16	1296 333 050	109.174	DAF	019B 54
1296 333 022	119.085	DAF	019B 16	1296 333 045	119.172	IVE	010B 16	1296 333 050	109.174	DAF	020B 54
1296 333 022	119.085	DAF	020B 16	1296 333 045	119.172	IVE	011B 15	1296 333 050	109.174	DAF	021B 53
1296 333 022	119.085	DAF	021B 15	1296 333 045	119.172	IVE	012B 15	1296 333 050	109.174	DAF	022B 55
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1312 304 052	<b>157.180</b>	IVE	013A 35	1312 304 084	<b>117.310</b>	IVE	013A 55	1312 304 124	<i>109.163</i>	IVE	013A 57
1312 304 052	<b>157.180</b>	RVI	015A 29	1312 304 084	<b>117.310</b>	RVI	016A 55	1312 304 124	<i>109.163</i>	RVI	016A 57
1312 304 052	<b>157.180</b>	RVI	016A 35	1312 304 084	<b>117.310</b>	RVI	017A 55	1312 304 124	<i>109.163</i>	RVI	017A 57
1312 304 052	<b>157.180</b>	RVI	017A 35	1312 304 084	<b>117.310</b>	DAF	021A 49	1312 304 124	<i>109.163</i>	DAF	022A 57
1312 304 052	<b>157.180</b>	DAF	021A 29	1312 304 084	<b>117.310</b>	DAF	022A 55	1312 304 124	<i>109.163</i>	DAF	023A 57
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1312 304 056	<b>109.133</b>	MAN	007A 25	1312 304 085	<i>145.510</i>	DAF	021A 50	1312 304 136	<i>145.497</i>	DAF	021A 31

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1312 304 150	188.209	IVE	012A	62	1312 312 001		IVE	011B	34	1312 333 018		IVE	012B	27
1312 304 150	188.209	IVE	013A	62	1312 312 001		DAF	021B	34	1312 333 018		RVI	016B	27
1312 304 150	188.209	RVI	015A	56	1312 312 002		MAN	006B	34	1312 333 018		DAF	022B	27
1312 304 150	188.209	RVI	016A	62	1312 312 002		IVE	011B	34	1313 202 013	102.234	MAN	006A	11
1312 304 150	188.209	RVI	017A	62	1312 312 002		RVI	015B	34	1313 202 013	102.234	DAF	021A	11
1312 304 150	188.209	DAF	021A	56	1312 312 002		DAF	021B	34	1313 202 014	102.242	IVE	011A	11
1312 304 150	188.209	DAF	022A	62	1312 312 003		MB	003B	37	1313 202 015	102.241	RVI	015A	11
1312 304 150	188.209	DAF	023A	62	1312 312 003		MAN	006B	37	1313 202 015	102.241	DAF	021A	11
1312 304 157	See	1310 304 175			1312 312 003		IVE	011B	37	1313 202 016		MAN	006A	11
1312 304 158	157.181	MB	003A	45	1312 312 003		RVI	015B	37	1313 206 001		MAN	006B	30
1312 304 158	157.181	MAN	006A	45	1312 312 003		DAF	021B	37	1313 206 001		IVE	011B	30
1312 304 158	157.181	MAN	007A	47	1312 312 015		MB	003B	37	1313 206 001		RVI	015B	30
1312 304 158	157.181	MAN	008A	47	1312 312 015		MAN	006B	37	1313 206 001		DAF	021B	30
1312 304 158	157.181	IVE	011A	45	1312 312 015		IVE	011B	37	1313 206 002		MAN	006B	29
1312 304 158	157.181	IVE	012A	47	1312 312 015		RVI	015B	37	1313 206 002		IVE	011B	29
1312 304 158	157.181	IVE	013A	47	1312 312 015		DAF	021B	37	1313 206 002		RVI	015B	29
1312 304 158	157.181	RVI	016A	47	1312 332 026	107.165	MB	002B	2	1313 206 002		DAF	021B	29
1312 304 158	157.181	RVI	017A	47	1312 332 026	107.165	MB	003B	2	1313 206 004		MAN	006B	30
1312 304 158	157.181	DAF	021A	45	1312 332 026	107.165	MAN	005B	2	1313 206 004		IVE	011B	30
1312 304 158	157.181	DAF	022A	47	1312 332 026	107.165	MAN	006B	2	1313 206 004		RVI	015B	30
1312 304 158	157.181	DAF	023A	47	1312 332 026	107.165	MAN	007B	2	1313 206 004		DAF	021B	30
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1313 206 005		DAF	021B 29	1313 233 001	<b>198.374</b>	IVE	012B 21	1313 303 003	<b>146.414</b>	RVI	015A 59
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1313 206 011		RVI	015B 29	1313 233 001	<b>198.374</b>	RVI	016B 21	1313 303 004	<b>146.475</b>	IVE	011A 58
1313 206 011		DAF	021B 29	1313 233 001	<b>198.374</b>	DAF	018B 22	1313 303 004	<b>146.475</b>	RVI	015A 58
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1313 206 015		RVI	015B 31	1313 233 001	<b>198.374</b>	DAF	020B 22	1313 303 010	<b>105.106</b>	IVE	011A 61
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1313 206 016		IVE	011B 31	1313 233 001	<b>198.374</b>	DAF	022B 21	1313 303 011	<i>105.113</i>	MAN	006A 61
1313 206 016		RVI	015B 31	1313 233 001	<b>198.374</b>	VOL	024B 22	1313 303 011	<i>105.113</i>	IVE	011A 61
1313 206 016		DAF	021B 31	1313 233 001	<b>198.374</b>	VOL	024B 22	1313 303 011	<i>105.113</i>	RVI	015A 61
1313 206 026		MAN	006B 31	1313 233 001	<b>198.374</b>	VOL	025B 22	1313 303 011	<i>105.113</i>	DAF	021A 61
1313 206 026		IVE	011B 31	1313 234 011		MB	001B 42	1313 304 005	<b>146.476</b>	MAN	006A 26
1313 206 026		RVI	015B 31	1313 234 011		MB	002B 42	1313 304 005	<b>146.476</b>	IVE	011A 26
1313 206 026		DAF	021B 31	1313 234 011		MAN	004B 42	1313 304 005	<b>146.476</b>	RVI	015A 26
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1313 206 031		DAF	021B 30	1313 234 011		DAF	019B 42	1313 304 008	<b>157.189</b>	MAN	008A 52
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1313 232 003	<i>198.800</i>	IVE	011B 8	1313 234 012		RVI	015B 45	1313 304 008	<b>157.189</b>	RVI	016A 52
1313 232 003	<i>198.800</i>	IVE	012B 8	1313 234 012		DAF	021B 45	1313 304 008	<b>157.189</b>	RVI	017A 52
1313 232 003	<i>198.800</i>	RVI	015B 8	1313 302 030	<i>See</i>	1313 202 013		1313 304 008	<b>157.189</b>	DAF	021A 39
1313 232 003	<i>198.800</i>	RVI	016B 8	1313 302 035	<i>145.525</i>	MAN	006A 8	1313 304 008	<b>157.189</b>	DAF	022A 52
1313 232 003	<i>198.800</i>	DAF	021B 8	1313 302 035	<i>145.525</i>	IVE	011A 8	1313 304 008	<b>157.189</b>	DAF	023A 52
1313 232 003	<i>198.800</i>	DAF	022B 8	1313 302 035	<i>145.525</i>	RVI	015A 8	1313 304 009	<b>109.132</b>	MAN	006A 37
1313 233 001	<b>198.374</b>	MB	001B 22	1313 302 035	<i>145.525</i>	DAF	021A 8	1313 304 009	<b>109.132</b>	MAN	007A 50
1313 233 001	<b>198.374</b>	MB	002B 22	1313 302 036	<b>145.557</b>	MAN	006A 8	1313 304 009	<b>109.132</b>	MAN	008A 50
1313 233 001	<b>198.374</b>	MB	002B 22	1313 302 036	<b>145.557</b>	IVE	011A 8	1313 304 009	<b>109.132</b>	IVE	011A 37
1313 233 001	<b>198.374</b>	MAN	004B 22	1313 302 036	<b>145.557</b>	RVI	015A 8	1313 304 009	<b>109.132</b>	IVE	012A 50
1313 233 001	<b>198.374</b>	MAN	005B 22	1313 302 036	<b>145.557</b>	DAF	021A 8	1313 304 009	<b>109.132</b>	IVE	013A 50
1313 233 001	<b>198.374</b>	MAN	005B 22	1313 302 048		RVI	015A 1	1313 304 009	<b>109.132</b>	RVI	015A 37
1313 233 001	<b>198.374</b>	MAN	006B 21	1313 303 002	<b>146.420</b>	MAN	006A 60	1313 304 009	<b>109.132</b>	RVI	016A 50
1313 233 001	<b>198.374</b>	MAN	007B 21	1313 303 002	<b>146.420</b>	IVE	011A 60	1313 304 009	<b>109.132</b>	RVI	017A 50
1313 233 001	<b>198.374</b>	IVE	009B 22	1313 303 002	<b>146.420</b>	RVI	015A 60	1313 304 009	<b>109.132</b>	DAF	021A 37
1313 233 001	<b>198.374</b>	IVE	009B 22	1313 303 002	<b>146.420</b>	DAF	021A 60	1313 304 009	<b>109.132</b>	DAF	022A 50

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1313 304 009	<b>109.132</b>	DAF	023A	50	1313 304 078	145.502	DAF	021A	36	1313 333 001	<b>157.182</b>	MAN	007B	16
1313 304 036	See	1315 304 132			1313 304 080	<b>145.496</b>	MAN	006A	31	1313 333 001	<b>157.182</b>	MAN	008B	19
1313 304 037	109.177	MAN	006A	51	1313 304 080	<b>145.496</b>	IVE	011A	31	1313 333 001	<b>157.182</b>	IVE	011B	16
1313 304 037	109.177	IVE	011A	51	1313 304 080	<b>145.496</b>	RVI	015A	31	1313 333 001	<b>157.182</b>	IVE	012B	16
1313 304 037	109.177	RVI	015A	51	1313 304 080	<b>145.496</b>	DAF	021A	31	1313 333 001	<b>157.182</b>	IVE	013B	19
1313 304 037	109.177	DAF	021A	51	1313 304 081	145.526	MAN	006A	31	1313 333 001	<b>157.182</b>	RVI	015B	16
1313 304 038	<b>117.294</b>	MAN	006A	49	1313 304 081	145.526	IVE	011A	31	1313 333 001	<b>157.182</b>	RVI	016B	16
1313 304 038	<b>117.294</b>	MAN	007A	55	1313 304 081	145.526	RVI	015A	31	1313 333 001	<b>157.182</b>	RVI	017B	19
1313 304 038	<b>117.294</b>	MAN	008A	55	1313 304 081	145.526	DAF	021A	31	1313 333 001	<b>157.182</b>	DAF	021B	16
1313 304 038	<b>117.294</b>	IVE	011A	49	1313 305 001	147.148	MAN	006A	65	1313 333 001	<b>157.182</b>	DAF	022B	16
1313 304 038	<b>117.294</b>	IVE	012A	55	1313 305 001	147.148	IVE	011A	65	1313 333 001	<b>157.182</b>	DAF	023B	19
1313 304 038	<b>117.294</b>	IVE	013A	55	1313 305 001	147.148	RVI	015A	65	1313 338 002		MAN	006B	26
1313 304 038	<b>117.294</b>	RVI	015A	49	1313 305 001	147.148	DAF	021A	65	1313 338 002		MAN	007B	27
1313 304 038	<b>117.294</b>	RVI	016A	55	1313 305 002	147.132	MAN	006A	65	1313 338 002		IVE	011B	26
1313 304 038	<b>117.294</b>	RVI	017A	55	1313 305 002	147.132	IVE	011A	65	1313 338 002		IVE	012B	27
1313 304 038	<b>117.294</b>	DAF	021A	49	1313 305 002	147.132	RVI	015A	65	1313 338 002		RVI	015B	26
1313 304 038	<b>117.294</b>	DAF	022A	55	1313 305 002	147.132	DAF	021A	65	1313 338 002		RVI	016B	27
1313 304 038	<b>117.294</b>	DAF	023A	55	1313 312 002		MB	001B	33	1313 338 002		DAF	021B	26
1313 304 039	145.508	MAN	006A	50	1313 312 002		MB	002B	33	1313 338 002		DAF	022B	27
1313 304 039	145.508	IVE	011A	50	1313 312 002		MB	003B	33	1313 338 011		MAN	006B	26
1313 304 039	145.508	RVI	015A	50	1313 312 002		MAN	004B	33	1313 338 011		MAN	007B	27
1313 304 039	145.508	DAF	021A	50	1313 312 002		MAN	005B	33	1313 338 011		IVE	011B	26
1313 304 040	See	1313 304 070			1313 312 002		MAN	006B	33	1313 338 011		IVE	012B	27
1313 304 041	147.147	MAN	006A	54	1313 312 002		IVE	009B	33	1313 338 011		RVI	015B	26
1313 304 041	147.147	IVE	011A	54	1313 312 002		IVE	010B	34	1313 338 011		RVI	016B	27
1313 304 041	147.147	RVI	015A	54	1313 312 002		IVE	011B	33	1313 338 011		DAF	021B	26
1313 304 041	147.147	DAF	021A	54	1313 312 002		RVI	014B	33	1313 338 011		DAF	022B	27
1313 304 042	147.137	MAN	006A	54	1313 312 002		RVI	015B	33	1314 202 039		MAN	007A	75
1313 304 042	147.137	IVE	011A	54	1313 312 002		DAF	018B	33	1314 202 039		MAN	008A	12
1313 304 042	147.137	RVI	015A	54	1313 312 002		DAF	019B	33	1314 202 039		IVE	012A	75
1313 304 042	147.137	DAF	021A	54	1313 312 002		DAF	020B	34	1314 202 039		IVE	013A	12
1313 304 070	145.528	MAN	006A	50	1313 312 002		DAF	021B	33	1314 202 039		RVI	016A	75
1313 304 070	145.528	IVE	011A	50	1313 312 002		VOL	024B	33	1314 202 039		RVI	017A	12
1313 304 070	145.528	RVI	015A	50	1313 312 002		VOL	025B	34	1314 202 039		DAF	022A	75
1313 304 070	145.528	DAF	021A	50	1313 332 020	150.133	MAN	006B	10	1314 202 039		DAF	023A	12
1313 304 072	See	1315 304 130			1313 332 020	150.133	MAN	007B	10	1315 201 053		MAN	007A	72
1313 304 077	145.527	MAN	006A	36	1313 332 020	150.133	IVE	011B	10	1315 201 053		MAN	008A	72
1313 304 077	145.527	IVE	011A	36	1313 332 020	150.133	IVE	012B	10	1315 201 053		IVE	012A	72
1313 304 077	145.527	RVI	015A	36	1313 332 020	150.133	RVI	015B	10	1315 201 053		IVE	013A	72
1313 304 077	145.527	DAF	021A	36	1313 332 020	150.133	RVI	016B	10	1315 201 053		RVI	016A	72
1313 304 078	145.502	MAN	006A	36	1313 332 020	150.133	DAF	021B	10	1315 201 053		RVI	017A	72
1313 304 078	145.502	IVE	011A	36	1313 332 020	150.133	DAF	022B	10	1315 201 053		DAF	022A	72
1313 304 078	145.502	RVI	015A	36	1313 333 001	<b>157.182</b>	MAN	006B	16	1315 201 053		DAF	023A	72

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1315 201 054		IVE 013A 72	1315 202 048		RVI 016A 21	1315 202 065		DAF 023A 10
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1315 202 012	190.296	RVI 016A 18	1315 202 055		RVI 016A 10	1315 206 003		DAF 023B 33
1315 202 012	190.296	DAF 022A 18	1315 202 055		RVI 017A 10	1315 206 013		MAN 007B 29
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1315 202 014		MAN 008A 2	1315 202 055		DAF 023A 10	1315 206 013		IVE 012B 29
1315 202 014		IVE 012A 2	1315 202 058		MAN 007A 10	1315 206 013		IVE 013B 31
1315 202 014		IVE 013A 2	1315 202 058		MAN 008A 10	1315 206 013		RVI 016B 29
1315 202 014		RVI 016A 2	1315 202 058		IVE 012A 10	1315 206 013		RVI 017B 31
1315 202 014		RVI 017A 2	1315 202 058		IVE 013A 10	1315 206 013		DAF 022B 29
1315 202 014		DAF 022A 2	1315 202 058		RVI 016A 10	1315 206 013		DAF 023B 31
1315 202 014		DAF 023A 2	1315 202 058		RVI 017A 10	1315 206 013		DAF 023B 31
1315 202 018	See	1314 202 039	1315 202 058		DAF 022A 10	1315 206 023		MAN 007B 31
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1315 202 022	190.309	IVE 012A 18	1315 202 060		MAN 007A 10	1315 206 023		IVE 012B 31
1315 202 022	190.309	RVI 016A 18	1315 202 060		MAN 008A 10	1315 206 023		IVE 013B 33
1315 202 022	190.309	DAF 022A 18	1315 202 060		IVE 012A 10	1315 206 023		RVI 016B 31
1315 202 037	190.304	MAN 007A 21	1315 202 060		IVE 013A 10	1315 206 023		RVI 017B 33
1315 202 037	190.304	MAN 008A 20	1315 202 060		RVI 016A 10	1315 206 023		DAF 022B 31
1315 202 037	190.304	IVE 012A 21	1315 202 060		RVI 017A 10	1315 206 023		DAF 023B 33
1315 202 037	190.304	IVE 013A 20	1315 202 060		DAF 022A 10	1315 206 024		MAN 007B 29
1315 202 037	190.304	RVI 016A 21	1315 202 060		DAF 023A 10	1315 206 024		MAN 008B 31
1315 202 037	190.304	RVI 017A 20	1315 202 061		MAN 007A 10	1315 206 024		IVE 012B 29
1315 202 037	190.304	DAF 022A 21	1315 202 061		MAN 008A 10	1315 206 024		IVE 013B 31
1315 202 037	190.304	DAF 023A 20	1315 202 061		IVE 012A 10	1315 206 024		RVI 016B 29
1315 202 040	190.315	MAN 007A 21	1315 202 061		IVE 013A 10	1315 206 024		RVI 017B 31
1315 202 040	190.315	MAN 008A 20	1315 202 061		RVI 016A 10	1315 206 024		DAF 022B 29
1315 202 040	190.315	IVE 012A 21	1315 202 061		RVI 017A 10	1315 206 024		DAF 023B 31
1315 202 040	190.315	IVE 013A 20	1315 202 061		DAF 022A 10	1315 206 046		MAN 007B 30
1315 202 040	190.315	RVI 016A 21	1315 202 061		DAF 023A 10	1315 206 046		MAN 008B 32
1315 202 040	190.315	RVI 017A 20	1315 202 065		MAN 007A 10	1315 206 046		IVE 012B 30
1315 202 040	190.315	DAF 022A 21	1315 202 065		MAN 008A 10	1315 206 046		IVE 013B 32
1315 202 040	190.315	DAF 023A 20	1315 202 065		IVE 012A 10	1315 206 046		RVI 016B 30
1315 202 048		MAN 007A 21	1315 202 065		IVE 013A 10	1315 206 046		RVI 017B 32
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1315 206 047		MAN	007B	30	1315 221 002	190.317	IVE	013A	20	1315 233 023	196.353	DAF	022B	22
1315 206 047		MAN	008B	32	1315 221 002	190.317	RVI	016A	21	1315 238 001		MAN	007B	27
1315 206 047		IVE	012B	30	1315 221 002	190.317	RVI	017A	20	1315 238 001		IVE	012B	27
1315 206 047		IVE	013B	32	1315 221 002	190.317	DAF	022A	21	1315 238 001		RVI	016B	27
1315 206 047		RVI	016B	30	1315 221 002	190.317	DAF	023A	20	1315 238 001		DAF	022B	27
1315 206 047		RVI	017B	32	1315 231 004		MAN	007B	25	1315 298 001	198.797	MAN	007A	78
1315 206 047		DAF	022B	30	1315 231 004		MAN	008B	27	1315 298 001	198.797	MAN	007B	52
1315 206 047		DAF	023B	32	1315 231 004		IVE	012B	25	1315 298 001	198.797	MAN	008A	77
1315 206 052		MAN	007B	30	1315 231 004		IVE	013B	27	1315 298 001	198.797	MAN	008B	54
1315 206 052		MAN	008B	32	1315 231 004		RVI	016B	25	1315 298 001	198.797	IVE	012A	78
1315 206 052		IVE	012B	30	1315 231 004		RVI	017B	27	1315 298 001	198.797	IVE	012B	52
1315 206 052		IVE	013B	32	1315 231 004		DAF	022B	25	1315 298 001	198.797	IVE	013A	77
1315 206 052		RVI	016B	30	1315 231 004		DAF	023B	27	1315 298 001	198.797	IVE	013B	54
1315 206 052		RVI	017B	32	1315 232 001	198.816	MAN	007B	8	1315 298 001	198.797	RVI	016A	78
1315 206 052		DAF	022B	30	1315 232 001	198.816	IVE	012B	8	1315 298 001	198.797	RVI	016B	52
1315 206 052		DAF	023B	32	1315 232 001	198.816	RVI	016B	8	1315 298 001	198.797	RVI	017A	77
1315 206 053		MAN	007B	30	1315 232 001	198.816	DAF	022B	8	1315 298 001	198.797	RVI	017B	54
1315 206 053		MAN	008B	32	1315 232 010	198.798	MAN	008B	8	1315 298 001	198.797	DAF	022A	78
1315 206 053		IVE	012B	30	1315 232 010	198.798	MAN	008B	8	1315 298 001	198.797	DAF	022B	52
1315 206 053		IVE	013B	32	1315 232 010	198.798	IVE	013B	8	1315 298 001	198.797	DAF	023A	77
1315 206 053		RVI	016B	30	1315 232 010	198.798	IVE	013B	8	1315 298 001	198.797	DAF	023B	54
1315 206 053		RVI	017B	32	1315 232 010	198.798	RVI	017B	8	1315 298 002	198.838	MAN	007A	77
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1315 206 055		IVE	013B	31	1315 232 016	190.394	MAN	008B	1	1315 298 002	198.838	IVE	013A	76
1315 206 055		RVI	016B	29	1315 232 016	190.394	IVE	013B	1	1315 298 002	198.838	IVE	013B	53
1315 206 055		RVI	017B	31	1315 232 016	190.394	IVE	013B	1	1315 298 002	198.838	RVI	016A	77
1315 206 055		DAF	022B	29	1315 232 016	190.394	RVI	017B	1	1315 298 002	198.838	RVI	016B	51
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1315 206 056		MAN	008B	31	1315 232 016	190.394	DAF	023B	1	1315 298 002	198.838	DAF	022A	77
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1315 206 056		DAF	022B	29	1315 233 006	298.017	RVI	016B	14	1315 298 055	See	1315 298 061		
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1315 298 060	<b>298.020</b>	RVI 017A 79	1315 301 223	175.242	IVE 012B 23	1315 302 057		DAF 023A 4
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1315 298 061	<b>298.021</b>	MAN 006A 70	1315 302 007	145.451	IVE 012A 17	1315 302 075		IVE 013A 11
1315 298 061	<b>298.021</b>	MAN 007A 79	1315 302 007	145.451	RVI 016A 17	1315 302 075		RVI 016A 11
1315 298 061	<b>298.021</b>	MAN 008A 78	1315 302 007	145.451	DAF 022A 17	1315 302 075		RVI 017A 11
1315 298 061	<b>298.021</b>	IVE 011A 70	1315 302 008	<b>145.524</b>	MAN 007A 17	1315 302 075		DAF 022A 11
1315 298 061	<b>298.021</b>	IVE 012A 79	1315 302 008	<b>145.524</b>	IVE 012A 17	1315 302 075		DAF 023A 11
1315 298 061	<b>298.021</b>	IVE 013A 78	1315 302 008	<b>145.524</b>	RVI 016A 17	1315 302 116	See	1315 302 120
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1315 298 061	<b>298.021</b>	DAF 021A 70	1315 302 013		IVE 012A 1	1315 302 120		IVE 012A 8
1315 298 061	<b>298.021</b>	DAF 022A 79	1315 302 013		IVE 013A 1	1315 302 120		IVE 013A 8
1315 298 061	<b>298.021</b>	DAF 023A 78	1315 302 013		RVI 016A 1	1315 302 120		RVI 016A 8
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1315 301 117		DAF 022B 23	1315 302 045		MAN 007A 7	1315 302 121		MAN 007A 9
1315 301 220	128.098	MB 001B 25	1315 302 045		MAN 008A 7	1315 302 121		MAN 008A 9
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1315 301 220	128.098	MB 002B 25	1315 302 045		IVE 013A 7	1315 302 121		IVE 013A 9
1315 301 220	128.098	MB 003B 24	1315 302 045		RVI 016A 7	1315 302 121		RVI 016A 9
1315 301 220	128.098	MAN 004B 25	1315 302 045		RVI 017A 7	1315 302 121		RVI 017A 9
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1315 301 220	128.098	IVE 009B 25	1315 302 047		MAN 008A 7	1315 302 136		MAN 008A 11
1315 301 220	128.098	IVE 009B 25	1315 302 047		IVE 012A 7	1315 302 136		IVE 012A 11
1315 301 220	128.098	IVE 010B 25	1315 302 047		IVE 013A 7	1315 302 136		IVE 013A 11
1315 301 220	128.098	IVE 010B 25	1315 302 047		RVI 016A 7	1315 302 136		RVI 016A 11
1315 301 220	128.098	IVE 011B 24	1315 302 047		RVI 017A 7	1315 302 136		RVI 017A 11
1315 301 220	128.098	RVI 014B 25	1315 302 047		DAF 022A 7	1315 302 136		DAF 022A 11
1315 301 220	128.098	RVI 015B 24	1315 302 047		DAF 023A 7	1315 302 136		DAF 023A 11
1315 301 220	128.098	DAF 019B 25	1315 302 057		MAN 007A 4	1315 302 157	<b>145.553</b>	MAN 007A 20
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1315 302 157	<b>145.553</b>	IVE	013A	17	1315 303 010	<b>146.368</b>	IVE	012A	67	1315 303 048	105.112	RVI	016A	68
1315 302 157	<b>145.553</b>	RVI	016A	20	1315 303 010	<b>146.368</b>	IVE	013A	67	1315 303 048	105.112	DAF	022A	68
1315 302 157	<b>145.553</b>	RVI	017A	17	1315 303 010	<b>146.368</b>	RVI	016A	67	1315 303 049	105.095	MAN	007A	68
1315 302 157	<b>145.553</b>	DAF	022A	20	1315 303 010	<b>146.368</b>	RVI	017A	67	1315 303 049	105.095	IVE	012A	68
1315 302 157	<b>145.553</b>	DAF	023A	17	1315 303 010	<b>146.368</b>	DAF	022A	67	1315 303 049	105.095	RVI	016A	68
1315 302 158	<b>145.556</b>	MAN	007A	20	1315 303 010	<b>146.368</b>	DAF	023A	67	1315 303 049	105.095	DAF	022A	68
1315 302 158	<b>145.556</b>	MAN	008A	17	1315 303 011	See	1315 303 046			1315 303 050	<b>146.474</b>	MAN	007A	66
1315 302 158	<b>145.556</b>	IVE	012A	20	1315 303 012	See	1315 303 052			1315 303 050	<b>146.474</b>	MAN	008A	66
1315 302 158	<b>145.556</b>	IVE	013A	17	1315 303 027		MAN	007A	3	1315 303 050	<b>146.474</b>	IVE	012A	66
1315 302 158	<b>145.556</b>	RVI	016A	20	1315 303 027		MAN	008A	3	1315 303 050	<b>146.474</b>	IVE	013A	66
1315 302 158	<b>145.556</b>	RVI	017A	17	1315 303 027		IVE	012A	3	1315 303 050	<b>146.474</b>	RVI	016A	66
1315 302 158	<b>145.556</b>	DAF	022A	20	1315 303 027		IVE	013A	3	1315 303 050	<b>146.474</b>	RVI	017A	66
1315 302 158	<b>145.556</b>	DAF	023A	17	1315 303 027		RVI	016A	3	1315 303 050	<b>146.474</b>	DAF	022A	66
1315 302 173	<b>145.513</b>	MAN	007A	20	1315 303 027		RVI	017A	3	1315 303 050	<b>146.474</b>	DAF	023A	66
1315 302 173	<b>145.513</b>	MAN	008A	17	1315 303 027		DAF	022A	3	1315 303 051	<b>146.473</b>	MAN	007A	65
1315 302 173	<b>145.513</b>	IVE	012A	20	1315 303 027		DAF	023A	3	1315 303 051	<b>146.473</b>	MAN	008A	65
1315 302 173	<b>145.513</b>	IVE	013A	17	1315 303 041	105.109	MAN	007A	68	1315 303 051	<b>146.473</b>	IVE	012A	65
1315 302 173	<b>145.513</b>	RVI	016A	20	1315 303 041	105.109	MAN	008A	68	1315 303 051	<b>146.473</b>	IVE	013A	65
1315 302 173	<b>145.513</b>	RVI	017A	17	1315 303 041	105.109	IVE	012A	68	1315 303 051	<b>146.473</b>	RVI	016A	65
1315 302 173	<b>145.513</b>	DAF	022A	20	1315 303 041	105.109	IVE	013A	68	1315 303 051	<b>146.473</b>	RVI	017A	65
1315 302 173	<b>145.513</b>	DAF	023A	17	1315 303 041	105.109	RVI	016A	68	1315 303 051	<b>146.473</b>	DAF	022A	65
1315 303 004	<b>146.365</b>	MAN	007A	67	1315 303 041	105.109	RVI	017A	68	1315 303 051	<b>146.473</b>	DAF	023A	65
1315 303 004	<b>146.365</b>	MAN	008A	67	1315 303 041	105.109	DAF	022A	68	1315 303 052	<b>146.427</b>	MAN	007A	65
1315 303 004	<b>146.365</b>	IVE	012A	67	1315 303 041	105.109	DAF	023A	68	1315 303 052	<b>146.427</b>	MAN	008A	65
1315 303 004	<b>146.365</b>	IVE	013A	67	1315 303 042	105.124	MAN	007A	68	1315 303 052	<b>146.427</b>	IVE	012A	65
1315 303 004	<b>146.365</b>	RVI	016A	67	1315 303 042	105.124	MAN	008A	68	1315 303 052	<b>146.427</b>	IVE	013A	65
1315 303 004	<b>146.365</b>	RVI	017A	67	1315 303 042	105.124	IVE	012A	68	1315 303 052	<b>146.427</b>	RVI	016A	65
1315 303 004	<b>146.365</b>	DAF	022A	67	1315 303 042	105.124	IVE	013A	68	1315 303 052	<b>146.427</b>	RVI	017A	65
1315 303 004	<b>146.365</b>	DAF	023A	67	1315 303 042	105.124	RVI	016A	68	1315 303 052	<b>146.427</b>	DAF	022A	65
1315 303 006	146.389	MAN	007A	66	1315 303 042	105.124	RVI	017A	68	1315 303 052	<b>146.427</b>	DAF	023A	65
1315 303 006	146.389	IVE	012A	66	1315 303 042	105.124	DAF	022A	68	1315 304 004	145.452	MAN	007A	56
1315 303 006	146.389	RVI	016A	66	1315 303 042	105.124	DAF	023A	68	1315 304 004	145.452	MAN	008A	56
1315 303 006	146.389	DAF	022A	66	1315 303 042	See	1315 303 063			1315 304 004	145.452	IVE	012A	56
1315 303 008	<b>146.367</b>	MAN	007A	65	1315 303 046	<b>146.429</b>	MAN	007A	66	1315 304 004	145.452	IVE	013A	56
1315 303 008	<b>146.367</b>	MAN	008A	65	1315 303 046	<b>146.429</b>	MAN	008A	66	1315 304 004	145.452	RVI	016A	56
1315 303 008	<b>146.367</b>	IVE	012A	65	1315 303 046	<b>146.429</b>	IVE	012A	66	1315 304 004	145.452	RVI	017A	56
1315 303 008	<b>146.367</b>	IVE	013A	65	1315 303 046	<b>146.429</b>	IVE	013A	66	1315 304 004	145.452	DAF	022A	56
1315 303 008	<b>146.367</b>	RVI	016A	65	1315 303 046	<b>146.429</b>	RVI	016A	66	1315 304 004	145.452	DAF	023A	56
1315 303 008	<b>146.367</b>	RVI	017A	65	1315 303 046	<b>146.429</b>	RVI	017A	66	1315 304 006	147.123	MAN	007A	60
1315 303 008	<b>146.367</b>	DAF	022A	65	1315 303 046	<b>146.429</b>	DAF	022A	66	1315 304 006	147.123	MAN	008A	60
1315 303 008	<b>146.367</b>	DAF	023A	65	1315 303 046	<b>146.429</b>	DAF	023A	66	1315 304 006	147.123	IVE	012A	60
1315 303 010	<b>146.368</b>	MAN	007A	67	1315 303 048	105.112	MAN	007A	68	1315 304 006	147.123	IVE	013A	60

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1315 304 006	147.123	RVI	017A 60	1315 304 025	145.454	RVI	016A 42	1315 304 048		IVE	013A 27
1315 304 006	147.123	DAF	022A 60	1315 304 025	145.454	RVI	017A 42	1315 304 048		RVI	016A 27
1315 304 006	147.123	DAF	023A 60	1315 304 025	145.454	DAF	022A 42	1315 304 048		RVI	017A 27
1315 304 010	145.729	MAN	007A 31	1315 304 025	145.454	DAF	023A 42	1315 304 048		DAF	022A 27
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1315 304 010	145.729	RVI	016A 31	1315 304 026	145.455	MAN	008A 42	1315 304 051		MB	003A 23
1315 304 010	145.729	DAF	022A 31	1315 304 026	145.455	IVE	012A 42	1315 304 051		MAN	006A 23
1315 304 013	147.124	MAN	007A 60	1315 304 026	145.455	IVE	013A 42	1315 304 051		IVE	011A 23
1315 304 013	147.124	MAN	008A 60	1315 304 026	145.455	RVI	016A 42	1315 304 051		RVI	015A 23
1315 304 013	147.124	IVE	012A 60	1315 304 026	145.455	RVI	017A 42	1315 304 051		DAF	021A 23
1315 304 013	147.124	IVE	013A 60	1315 304 026	145.455	DAF	022A 42	1315 304 084	See	1315 304 131	
1315 304 013	147.124	RVI	016A 60	1315 304 026	145.455	DAF	023A 42	1315 304 089	<b>146.320</b>	MAN	007A 31
1315 304 013	147.124	RVI	017A 60	1315 304 027	<b>145.456</b>	MAN	007A 39	1315 304 089	<b>146.320</b>	MAN	008A 31
1315 304 013	147.124	DAF	022A 60	1315 304 027	<b>145.456</b>	MAN	008A 39	1315 304 089	<b>146.320</b>	IVE	012A 31
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1316 206 026		IVE	013B	32	1316 206 037		DAF	022B	29	1316 232 019	190.325	MAN	008B	1
1316 206 026		RVI	016B	30	1316 206 037		DAF	023B	31	1316 232 019	190.325	IVE	013B	1
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1316 206 026		DAF	023B	32	1316 206 038		IVE	012B	29	1316 232 019	190.325	RVI	017B	1
1316 206 027		MAN	007B	30	1316 206 038		IVE	013B	31	1316 232 019	190.325	DAF	023B	1
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1316 302 067	<b>145.554</b>	DAF 023A 17	1316 303 030	<b>146.486</b>	RVI 016A 65	1316 303 055	<b>146.398</b>	IVE 013A 65
1316 303 001	<b>146.388</b>	MAN 007A 65	1316 303 030	<b>146.486</b>	RVI 017A 65	1316 303 055	<b>146.398</b>	RVI 017A 65
1316 303 001	<b>146.388</b>	IVE 012A 65	1316 303 030	<b>146.486</b>	DAF 022A 65	1316 303 055	<b>146.398</b>	DAF 023A 65
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1316 304 133	<b>117.311</b>	MAN	008A 58	1316 304 156	<b>109.386</b>	VE	013A 50	1316 304 163	<b>157.228</b>	DAF	022A 52
1316 304 133	<b>117.311</b>	VE	011A 52	1316 304 156	<b>109.386</b>	RVI	015A 37	1316 304 163	<b>157.228</b>	DAF	023A 52
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1316 304 133	<b>117.311</b>	VE	013A 58	1316 304 156	<b>109.386</b>	RVI	017A 50	1316 305 001	<i>147.127</i>	MAN	008A 71
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1316 304 149	<b>119.217</b>	RVI	017A 34	1316 304 162	<b>157.227</b>	MAN	007A 35	1316 306 015	<i>141.168</i>	VE	012B 28
1316 304 149	<b>119.217</b>	DAF	021A 28	1316 304 162	<b>157.227</b>	MAN	008A 35	1316 306 015	<i>141.168</i>	VE	012B 32
1316 304 149	<b>119.217</b>	DAF	022A 34	1316 304 162	<b>157.227</b>	VE	011A 29	1316 306 015	<i>141.168</i>	VE	013B 30
1316 304 149	<b>119.217</b>	DAF	023A 34	1316 304 162	<b>157.227</b>	VE	012A 35	1316 306 015	<i>141.168</i>	VE	013B 34
1316 304 150	<b>119.218</b>	MAN	006A 38	1316 304 162	<b>157.227</b>	VE	013A 35	1316 306 015	<i>141.168</i>	RVI	016B 28
1316 304 150	<b>119.218</b>	MAN	007A 51	1316 304 162	<b>157.227</b>	RVI	015A 29	1316 306 015	<i>141.168</i>	RVI	016B 32
1316 304 150	<b>119.218</b>	MAN	008A 51	1316 304 162	<b>157.227</b>	RVI	016A 35	1316 306 015	<i>141.168</i>	RVI	017B 30
1316 304 150	<b>119.218</b>	VE	011A 38	1316 304 162	<b>157.227</b>	RVI	017A 35	1316 306 015	<i>141.168</i>	RVI	017B 34
1316 304 150	<b>119.218</b>	VE	012A 51	1316 304 162	<b>157.227</b>	DAF	021A 29	1316 306 015	<i>141.168</i>	DAF	022B 28
1316 304 150	<b>119.218</b>	VE	013A 51	1316 304 162	<b>157.227</b>	DAF	022A 35	1316 306 015	<i>141.168</i>	DAF	022B 32
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1316 304 150	<b>119.218</b>	RVI	016A 51	1316 304 163	<b>157.228</b>	MAN	006A 39	1316 306 015	<i>141.168</i>	DAF	023B 34
1316 304 150	<b>119.218</b>	RVI	017A 51	1316 304 163	<b>157.228</b>	MAN	007A 52	1316 312 008		MAN	007B 34
1316 304 150	<b>119.218</b>	DAF	021A 38	1316 304 163	<b>157.228</b>	MAN	008A 52	1316 312 008		MAN	008B 36
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<b>102.222</b>	1296 202 001	MB	002A	11	<i>102.254</i>	1295 202 039	MAN	005A	11	<i>103.134</i>	1297 304 179	MB	001A	31
<b>102.223</b>	1297 202 053	MB	001A	15	<i>103.075</i>	1295 304 245	MB	002A	37	<i>103.134</i>	1297 304 179	MAN	004A	31
<b>102.223</b>	1297 202 053	MB	002A	11	<i>103.075</i>	1295 304 245	MAN	005A	37	<i>103.134</i>	1297 304 179	DAF	018A	31
<i>102.229</i>	1296 202 006	DAF	019A	11	<i>103.075</i>	1295 304 245	IVE	009A	37	<b>103.135</b>	1315 304 130	MAN	006A	33
<i>102.229</i>	1296 202 006	DAF	020A	11	<i>103.075</i>	1295 304 245	RVI	014A	37	<b>103.135</b>	1315 304 130	MAN	007A	41
<i>102.230</i>	1295 202 004	MB	001A	15	<i>103.075</i>	1295 304 245	DAF	019A	37	<b>103.135</b>	1315 304 130	IVE	011A	33
<i>102.230</i>	1295 202 004	MB	002A	11	<i>103.075</i>	1295 304 245	DAF	020A	39	<b>103.135</b>	1315 304 130	IVE	012A	41
<i>102.230</i>	1295 202 004	MAN	005A	11	<i>103.075</i>	1295 304 245	VOL	024A	37	<b>103.135</b>	1315 304 130	RVI	015A	33
<i>102.230</i>	1295 202 004	IVE	009A	11	<b>103.098</b>	1297 304 193	MB	002A	37	<b>103.135</b>	1315 304 130	RVI	016A	41
<i>102.230</i>	1295 202 004	DAF	019A	11	<b>103.098</b>	1297 304 193	MAN	005A	37	<b>103.135</b>	1315 304 130	DAF	021A	33
<i>102.232</i>	1295 202 007	MAN	004A	15	<b>103.098</b>	1297 304 193	IVE	009A	37	<b>103.135</b>	1315 304 130	DAF	022A	41
<i>102.232</i>	1295 202 007	MAN	005A	11	<b>103.098</b>	1297 304 193	IVE	010A	39	<b>103.138</b>	1315 304 131	MAN	008A	41
<i>102.233</i>	1297 202 030	MB	002A	11	<b>103.098</b>	1297 304 193	DAF	019A	37	<b>103.138</b>	1315 304 131	IVE	013A	41
<b>102.234</b>	1313 202 013	MAN	006A	11	<b>103.098</b>	1297 304 193	DAF	020A	39	<b>103.138</b>	1315 304 131	RVI	017A	41
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<i>102.238</i>	1312 202 038	IVE	011A	11	<b>103.128</b>	1316 304 130	IVE	011A	34	<i>103.140</i>	1295 304 250	DAF	020A	39
<i>102.241</i>	1313 202 015	RVI	015A	11	<b>103.128</b>	1316 304 130	IVE	012A	41	<i>103.140</i>	1295 304 250	VOL	024A	37
<i>102.241</i>	1313 202 015	DAF	021A	11	<b>103.128</b>	1316 304 130	RVI	016A	41	<i>103.141</i>	1295 304 243	MB	001A	31
<i>102.242</i>	1313 202 014	IVE	011A	11	<b>103.128</b>	1316 304 130	DAF	021A	34	<i>103.141</i>	1295 304 243	MAN	004A	31
<i>102.243</i>	1312 202 039	MAN	006A	11	<b>103.128</b>	1316 304 130	DAF	022A	41	<i>103.142</i>	1295 304 304	MB	001A	31
<i>102.244</i>	1312 202 037	MB	003A	11	<b>103.130</b>	1316 304 132	MAN	008A	41	<i>103.142</i>	1295 304 304	MAN	004A	31
<i>102.244</i>	1312 202 037	MAN	006A	11	<b>103.130</b>	1316 304 132	IVE	013A	41	<i>103.143</i>	1316 304 131	MAN	008A	41
<i>102.245</i>	1297 202 004	DAF	018A	15	<b>103.130</b>	1316 304 132	RVI	017A	41	<i>103.143</i>	1316 304 131	RVI	017A	41
<i>102.245</i>	1297 202 004	DAF	019A	11	<b>103.130</b>	1316 304 132	DAF	023A	41	<i>103.143</i>	1316 304 131	DAF	023A	41
<i>102.246</i>	1297 202 052	DAF	019A	11	<i>103.131</i>	1296 304 119	MB	002A	37	<b>105.060</b>	1295 303 066	MB	002A	61
<i>102.246</i>	1297 202 052	DAF	020A	11	<i>103.131</i>	1296 304 119	DAF	019A	37	<b>105.060</b>	1295 303 066	MAN	005A	61
<i>102.247</i>	1297 202 008	MAN	004A	15	<i>103.131</i>	1296 304 119	DAF	020A	39	<b>105.060</b>	1295 303 066	IVE	009A	61
<i>102.247</i>	1297 202 008	MAN	005A	11	<b>103.132</b>	1297 304 181	MB	002A	37	<b>105.060</b>	1295 303 066	RVI	014A	61
<i>102.248</i>	1296 202 004	MB	002A	11	<b>103.132</b>	1297 304 181	MAN	005A	37	<b>105.060</b>	1295 303 066	DAF	019A	61
<i>102.250</i>	1295 202 005	DAF	019A	11	<b>103.132</b>	1297 304 181	IVE	009A	37	<b>105.060</b>	1295 303 066	DAF	020A	64
<i>102.250</i>	1295 202 005	DAF	020A	11	<b>103.132</b>	1297 304 181	IVE	010A	39	<b>105.060</b>	1295 303 066	VOL	024A	61
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<i>102.252</i>	1295 202 011	DAF	019A	11	<b>103.132</b>	1297 304 181	DAF	020A	39	<b>105.091</b>	1297 303 047	MAN	004A	53
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119.175	1304 304 686	DAF	019A	10	123.208	1295 332 086	MB	001B	10	123.217	1297 332 080	MAN	004B	10
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130.240	0750 118 153	MB	002A 56	130.244	0750 116 166	MB	002B 13	<b>130.304</b>	0750 117 678	RVI	017A 61
130.240	0750 118 153	MAN	004A 48	130.244	0750 116 166	MAN	004B 13	<b>130.304</b>	0750 117 678	DAF	021A 55
130.240	0750 118 153	MAN	005A 56	130.244	0750 116 166	MAN	005B 13	<b>130.304</b>	0750 117 678	DAF	022A 61
130.240	0750 118 153	IVE	009A 56	130.244	0750 116 166	IVE	009B 13	<b>130.304</b>	0750 117 678	DAF	023A 61
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130.240	0750 118 153	DAF	018A 48	130.244	0750 116 166	DAF	019B 13	130.305	0750 118 131	MB	002A 6
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<b>130.242</b>	0750 117 010	MAN	004A 49	130.245	0750 116 002	MAN	004B 24	130.305	0750 118 131	DAF	020A 6
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<b>130.242</b>	0750 117 010	IVE	009A 57	130.245	0750 116 002	MAN	008B 26	<b>130.306</b>	0750 117 431	MAN	006A 6
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<b>130.242</b>	0750 117 010	IVE	011A 57	130.245	0750 116 002	IVE	010B 24	<b>130.306</b>	0750 117 431	IVE	011A 6
<b>130.242</b>	0750 117 010	IVE	012A 64	130.245	0750 116 002	IVE	011B 23	<b>130.306</b>	0750 117 431	IVE	012A 15
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<b>130.242</b>	0750 117 010	RVI	015A 57	130.245	0750 116 002	IVE	013B 26	<b>130.306</b>	0750 117 431	RVI	016A 15
<b>130.242</b>	0750 117 010	RVI	016A 64	130.245	0750 116 002	RVI	014B 24	<b>130.306</b>	0750 117 431	DAF	021A 6
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137.153	0735 320 896	MAN	004A	11	137.159	0735 320 548	DAF	019A	44	139.331	0750 112 034	MB	002B	43
137.153	0735 320 896	MAN	005A	7	137.159	0735 320 548	DAF	020A	46	139.331	0750 112 034	MB	003B	36

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139.331	0750 112 034	IVE	011B	42	141.085	1296 334 004	MB	003B	41	141.163	1297 306 120	RVI	017B	34
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139.331	0750 112 034	IVE	013B	38	141.085	1296 334 004	MAN	006B	41	141.163	1297 306 120	DAF	021B	32
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139.331	0750 112 034	DAF	019B	43	141.085	1296 334 004	DAF	019B	41	141.168	1316 306 015	IVE	013B	34
139.331	0750 112 034	DAF	020B	37	141.085	1296 334 004	DAF	020B	42	141.168	1316 306 015	RVI	016B	28
139.331	0750 112 034	DAF	020B	44	141.085	1296 334 004	DAF	021B	41	141.168	1316 306 015	RVI	016B	32
139.331	0750 112 034	DAF	021B	36	141.085	1296 334 004	DAF	022B	39	141.168	1316 306 015	RVI	017B	30
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145.276	1295 302 071	MAN	005A	8	145.377	1297 304 414	MB	002A	35	145.447	1296 302 003	DAF	019A	8
145.276	1295 302 071	IVE	009A	8	145.377	1297 304 414	MAN	005A	35	145.447	1296 302 003	DAF	020A	8
145.276	1295 302 071	RVI	014A	8	145.377	1297 304 414	IVE	009A	35	145.448	1296 302 023	MB	002A	8
145.276	1295 302 071	DAF	019A	8	145.377	1297 304 414	IVE	010A	37	145.449	1297 302 074	MB	002A	8
145.276	1295 302 071	DAF	020A	8	145.377	1297 304 414	DAF	019A	35	145.450	1297 304 261	MB	002A	35
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145.277	1295 304 128	RVI	014A	35	145.405	1297 302 250	MB	002A	8	145.450	1297 304 261	DAF	020A	37
145.277	1295 304 128	DAF	019A	35	145.405	1297 302 250	MAN	004A	12	145.450	1297 304 261	VOL	024A	35
145.277	1295 304 128	DAF	020A	37	145.405	1297 302 250	MAN	005A	8	145.450	1297 304 261	VOL	025A	37
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145.278	1295 304 121	IVE	009A	39	145.405	1297 302 250	DAF	019A	8	145.451	1315 302 007	DAF	022A	17
145.278	1295 304 121	RVI	014A	39	145.405	1297 302 250	DAF	020A	8	145.452	1315 304 004	MAN	007A	56
145.278	1295 304 121	DAF	019A	39	145.405	1297 302 250	VOL	024A	8	145.452	1315 304 004	MAN	008A	56
145.278	1295 304 121	DAF	020A	41	145.405	1297 302 250	VOL	025A	8	145.452	1315 304 004	IVE	012A	56
145.278	1295 304 121	VOL	024A	39	145.406	1297 302 176	MB	001A	12	145.452	1315 304 004	IVE	013A	56
145.279	1295 304 202	MB	002A	45	145.406	1297 302 176	MB	002A	8	145.452	1315 304 004	RVI	016A	56
145.279	1295 304 202	MAN	005A	45	145.406	1297 302 176	MAN	004A	12	145.452	1315 304 004	RVI	017A	56
145.279	1295 304 202	IVE	009A	45	145.406	1297 302 176	MAN	005A	8	145.452	1315 304 004	DAF	022A	56
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145.279	1295 304 202	DAF	020A	48	145.406	1297 302 176	DAF	018A	12	145.453	1315 304 014	MAN	008A	56
145.279	1295 304 202	VOL	024A	45	145.406	1297 302 176	DAF	019A	8	145.453	1315 304 014	IVE	012A	56
145.375	1297 304 442	MB	002A	39	145.406	1297 302 176	DAF	020A	8	145.453	1315 304 014	IVE	013A	56
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145.375	1297 304 442	VOL	025A	41	145.407	1297 302 241	DAF	019A	8	145.454	1315 304 025	IVE	012A	42
145.376	1297 304 441	MB	002A	45	145.407	1297 302 241	DAF	020A	8	145.454	1315 304 025	IVE	013A	42
145.376	1297 304 441	MAN	005A	45	145.407	1297 302 241	VOL	024A	8	145.454	1315 304 025	RVI	016A	42
145.376	1297 304 441	IVE	009A	45	145.407	1297 302 241	VOL	025A	8	145.454	1315 304 025	RVI	017A	42
145.376	1297 304 441	IVE	010A	48	145.408	1295 302 074	MB	002A	8	145.454	1315 304 025	DAF	022A	42
145.376	1297 304 441	DAF	019A	45	145.420	1297 304 127	MB	001A	26	145.454	1315 304 025	DAF	023A	42
145.376	1297 304 441	DAF	020A	48	145.420	1297 304 127	MAN	004A	26	145.455	1315 304 026	MAN	007A	42
145.376	1297 304 441	VOL	024A	45	145.420	1297 304 127	DAF	018A	26	145.455	1315 304 026	MAN	008A	42

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145.455	1315 304 026	IVE	013A 42	145.472	1316 302 001	RVI	016A 17	145.487	1316 302 065	MAN	008A 17
145.455	1315 304 026	RVI	016A 42	145.472	1316 302 001	DAF	022A 17	145.487	1316 302 065	IVE	012A 20
145.455	1315 304 026	RVI	017A 42	145.473	1316 304 008	MAN	007A 39	145.487	1316 302 065	IVE	013A 17
145.455	1315 304 026	DAF	022A 42	145.473	1316 304 008	MAN	008A 39	145.487	1316 302 065	RVI	016A 20
145.455	1315 304 026	DAF	023A 42	145.473	1316 304 008	IVE	012A 39	145.487	1316 302 065	RVI	017A 17
145.456	1315 304 027	MAN	007A 39	145.473	1316 304 008	IVE	013A 39	145.487	1316 302 065	DAF	022A 20
145.456	1315 304 027	MAN	008A 39	145.473	1316 304 008	RVI	016A 39	145.487	1316 302 065	DAF	023A 17
145.456	1315 304 027	IVE	012A 39	145.473	1316 304 008	RVI	017A 39	145.488	1316 304 009	MAN	007A 39
145.456	1315 304 027	IVE	013A 39	145.473	1316 304 008	DAF	022A 39	145.488	1316 304 009	MAN	008A 39
145.456	1315 304 027	RVI	016A 39	145.473	1316 304 008	DAF	023A 39	145.488	1316 304 009	IVE	012A 39
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145.456	1315 304 027	DAF	023A 39	145.474	1316 304 002	IVE	012A 42	145.488	1316 304 009	RVI	017A 39
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145.466	1297 302 177	MB	002A 8	145.474	1316 304 002	RVI	016A 42	145.488	1316 304 009	DAF	023A 39
145.466	1297 302 177	MAN	004A 12	145.474	1316 304 002	RVI	017A 42	145.489	1295 302 070	MB	001A 12
145.466	1297 302 177	MAN	005A 8	145.474	1316 304 002	DAF	022A 42	145.489	1295 302 070	MB	002A 8
145.466	1297 302 177	IVE	009A 8	145.474	1316 304 002	DAF	023A 42	145.489	1295 302 070	MAN	004A 12
145.466	1297 302 177	IVE	010A 8	145.475	1316 304 010	MAN	007A 56	145.489	1295 302 070	MAN	005A 8
145.466	1297 302 177	DAF	018A 12	145.475	1316 304 010	MAN	008A 56	145.489	1295 302 070	IVE	009A 8
145.466	1297 302 177	DAF	019A 8	145.475	1316 304 010	IVE	012A 56	145.489	1295 302 070	RVI	014A 8
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145.466	1297 302 177	VOL	025A 8	145.475	1316 304 010	RVI	017A 56	145.489	1295 302 070	VOL	024A 8
145.467	1297 304 112	MB	001A 32	145.475	1316 304 010	DAF	022A 56	145.490	1312 302 074	MB	003A 8
145.467	1297 304 112	MAN	004A 32	145.475	1316 304 010	DAF	023A 56	145.490	1312 302 074	MAN	006A 8
145.467	1297 304 112	DAF	018A 32	145.483	1316 302 066	MAN	007A 20	145.490	1312 302 074	IVE	011A 8
145.468	1297 304 115	MB	001A 29	145.483	1316 302 066	MAN	008A 17	145.490	1312 302 074	DAF	021A 8
145.468	1297 304 115	MAN	004A 29	145.483	1316 302 066	MAN	008A 17	145.491	1312 302 073	MB	003A 8
145.468	1297 304 115	DAF	018A 29	145.483	1316 302 066	IVE	012A 20	145.491	1312 302 073	MAN	006A 8
145.469	1297 304 150	MB	001A 37	145.483	1316 302 066	IVE	013A 17	145.491	1312 302 073	IVE	011A 8
145.469	1297 304 150	MAN	004A 37	145.483	1316 302 066	IVE	013A 17	145.491	1312 302 073	DAF	021A 8
145.469	1297 304 150	DAF	018A 37	145.483	1316 302 066	RVI	016A 20	145.494	1296 304 087	MB	002A 35
145.470	1297 304 266	MB	002A 35	145.483	1316 302 066	RVI	017A 17	145.494	1296 304 087	DAF	019A 35
145.470	1297 304 266	MAN	005A 35	145.483	1316 302 066	RVI	017A 17	145.494	1296 304 087	DAF	020A 37
145.470	1297 304 266	IVE	009A 35	145.483	1316 302 066	DAF	022A 20	145.495	1295 304 127	MB	002A 35
145.470	1297 304 266	IVE	010A 37	145.483	1316 302 066	DAF	023A 17	145.495	1295 304 127	MAN	005A 35
145.470	1297 304 266	DAF	019A 35	145.483	1316 302 066	DAF	023A 17	145.495	1295 304 127	IVE	009A 35
145.470	1297 304 266	DAF	020A 37	145.484	1316 304 094	MAN	008A 39	145.495	1295 304 127	RVI	014A 35
145.470	1297 304 266	VOL	024A 35	145.484	1316 304 094	IVE	013A 39	145.495	1295 304 127	DAF	019A 35
145.470	1297 304 266	VOL	025A 37	145.484	1316 304 094	RVI	017A 39	145.495	1295 304 127	DAF	020A 37
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145.496	1313 304 080	IVE	011A 31	145.505	1296 304 099	DAF	020A 48	145.514	1315 304 028	DAF	023A 39
145.496	1313 304 080	RVI	015A 31	145.506	1295 304 203	MB	002A 45	145.515	1316 304 003	MAN	007A 42
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145.498	1312 304 137	DAF	021A 31	145.507	1297 304 270	IVE	009A 45	145.522	1316 304 013	MAN	008A 56
145.499	1296 304 070	MB	002A 39	145.507	1297 304 270	IVE	010A 48	145.522	1316 304 013	IVE	012A 56
145.499	1296 304 070	DAF	019A 39	145.507	1297 304 270	DAF	019A 45	145.522	1316 304 013	IVE	013A 56
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145.500	1297 304 269	MB	002A 39	145.507	1297 304 270	VOL	024A 45	145.522	1316 304 013	RVI	017A 56
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145.536	1296 304 088	DAF	019A 35	145.554	1316 302 067	DAF	022A 20	146.210	1295 303 101	RVI	014A 58
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146.319	1297 303 098	DAF	019A 58	146.355	1295 303 025	RVI	014A 60	146.367	1315 303 008	DAF	023A 65
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146.389	1315 303 006	MAN	007A 66	146.407	1316 303 031	DAF	023A 65	146.414	1313 303 003	IVE	011A 59
146.389	1315 303 006	IVE	012A 66	146.408	1316 303 004	MAN	007A 66	146.414	1313 303 003	RVI	015A 59
146.389	1315 303 006	RVI	016A 66	146.408	1316 303 004	MAN	008A 66	146.414	1313 303 003	DAF	021A 59
146.389	1315 303 006	DAF	022A 66	146.408	1316 303 004	IVE	012A 66	146.415	1297 303 097	MB	002A 59
146.390	1316 303 003	MAN	007A 66	146.408	1316 303 004	IVE	013A 66	146.415	1297 303 097	MAN	005A 59
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146.415	1297 303 097	DAF	019A	59	146.423	1312 303 020	MB	003A	60	146.431	1315 304 017	IVE	013A	31
146.415	1297 303 097	DAF	020A	62	146.423	1312 303 020	MAN	006A	60	146.431	1315 304 017	RVI	016A	31
146.415	1297 303 097	VOL	024A	59	146.423	1312 303 020	IVE	011A	60	146.431	1315 304 017	RVI	017A	31
146.415	1297 303 097	VOL	025A	62	146.423	1312 303 020	DAF	021A	60	146.431	1315 304 017	DAF	022A	31
146.416	1297 303 123	MB	002A	59	146.424	1312 303 021	MB	003A	60	146.431	1315 304 017	DAF	023A	31
146.416	1297 303 123	MAN	005A	59	146.424	1312 303 021	MAN	006A	60	146.442	1296 304 131	MAN	006A	26
146.416	1297 303 123	IVE	009A	59	146.424	1312 303 021	IVE	011A	60	146.442	1296 304 131	IVE	011A	26
146.416	1297 303 123	IVE	010A	62	146.424	1312 303 021	DAF	021A	60	146.442	1296 304 131	RVI	015A	26
146.416	1297 303 123	DAF	019A	59	146.425	1312 304 032	MB	003A	26	146.442	1296 304 131	DAF	021A	26
146.416	1297 303 123	DAF	020A	62	146.425	1312 304 032	MAN	006A	26	146.443	1296 303 037	MAN	006A	58
146.416	1297 303 123	VOL	024A	59	146.425	1312 304 032	IVE	011A	26	146.443	1296 303 037	IVE	011A	58
146.416	1297 303 123	VOL	025A	62	146.425	1312 304 032	DAF	021A	26	146.443	1296 303 037	RVI	015A	58
146.417	1312 303 017	MB	003A	59	146.426	1316 303 065	MAN	007A	66	146.443	1296 303 037	DAF	021A	58
146.417	1312 303 017	MAN	006A	59	146.426	1316 303 065	MAN	008A	66	146.444	1296 303 036	MAN	006A	59
146.417	1312 303 017	IVE	011A	59	146.426	1316 303 065	IVE	012A	66	146.444	1296 303 036	IVE	011A	59
146.417	1312 303 017	DAF	021A	59	146.426	1316 303 065	IVE	013A	66	146.444	1296 303 036	RVI	015A	59
146.418	1312 303 016	MB	003A	59	146.426	1316 303 065	RVI	016A	66	146.444	1296 303 036	DAF	021A	59
146.418	1312 303 016	MAN	006A	59	146.426	1316 303 065	RVI	017A	66	146.445	1296 303 035	MAN	006A	60
146.418	1312 303 016	IVE	011A	59	146.426	1316 303 065	DAF	022A	66	146.445	1296 303 035	IVE	011A	60
146.418	1312 303 016	DAF	021A	59	146.426	1316 303 065	DAF	023A	66	146.445	1296 303 035	RVI	015A	60
146.419	1296 303 009	MB	002A	60	146.427	1315 303 052	MAN	007A	65	146.445	1296 303 035	DAF	021A	60
146.419	1296 303 009	DAF	019A	60	146.427	1315 303 052	MAN	008A	65	146.446	1297 303 081	MB	001A	52
146.419	1296 303 009	DAF	020A	63	146.427	1315 303 052	IVE	012A	65	146.446	1297 303 081	MAN	004A	52
146.420	1313 303 002	MAN	006A	60	146.427	1315 303 052	IVE	013A	65	146.446	1297 303 081	DAF	018A	52
146.420	1313 303 002	IVE	011A	60	146.427	1315 303 052	RVI	016A	65	146.447	1297 303 114	MB	001A	51
146.420	1313 303 002	RVI	015A	60	146.427	1315 303 052	RVI	017A	65	146.447	1297 303 114	MAN	004A	51
146.420	1313 303 002	DAF	021A	60	146.427	1315 303 052	DAF	022A	65	146.447	1297 303 114	DAF	018A	51
146.421	1297 303 067	MB	002A	60	146.427	1315 303 052	DAF	023A	65	146.448	1296 304 091	MB	002A	30
146.421	1297 303 067	MAN	005A	60	146.428	1316 303 002	MAN	007A	65	146.448	1296 304 091	DAF	019A	30
146.421	1297 303 067	IVE	009A	60	146.428	1316 303 002	IVE	012A	65	146.449	1296 303 013	MB	002A	58
146.421	1297 303 067	IVE	010A	63	146.428	1316 303 002	RVI	016A	65	146.449	1296 303 013	DAF	019A	58
146.421	1297 303 067	DAF	019A	60	146.428	1316 303 002	DAF	022A	65	146.450	1296 303 003	MB	002A	59
146.421	1297 303 067	DAF	020A	63	146.429	1315 303 046	MAN	007A	66	146.450	1296 303 003	DAF	019A	59
146.421	1297 303 067	VOL	024A	60	146.429	1315 303 046	MAN	008A	66	146.451	1296 303 008	MB	002A	60
146.421	1297 303 067	VOL	025A	63	146.429	1315 303 046	IVE	012A	66	146.451	1296 303 008	DAF	019A	60
146.422	1297 303 132	MB	002A	60	146.429	1315 303 046	IVE	013A	66	146.454	1295 304 236	MB	002A	30
146.422	1297 303 132	MAN	005A	60	146.429	1315 303 046	RVI	016A	66	146.454	1295 304 236	MAN	005A	30
146.422	1297 303 132	IVE	009A	60	146.429	1315 303 046	RVI	017A	66	146.454	1295 304 236	IVE	009A	30
146.422	1297 303 132	IVE	010A	63	146.429	1315 303 046	DAF	022A	66	146.454	1295 304 236	RVI	014A	30
146.422	1297 303 132	DAF	019A	60	146.429	1315 303 046	DAF	023A	66	146.454	1295 304 236	DAF	019A	30
146.422	1297 303 132	DAF	020A	63	146.431	1315 304 017	MAN	007A	31	146.454	1295 304 236	DAF	020A	30
146.422	1297 303 132	VOL	024A	60	146.431	1315 304 017	MAN	008A	31	146.454	1295 304 236	VOL	024A	30

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146.457	1295 303 060	MB	002A	58	146.473	1315 303 051	RVI	017A	65	147.094	1295 305 052	MB	002A	65
146.457	1295 303 060	MAN	004A	50	146.473	1315 303 051	DAF	022A	65	147.094	1295 305 052	MAN	004A	57
146.457	1295 303 060	MAN	005A	58	146.473	1315 303 051	DAF	023A	65	147.094	1295 305 052	MAN	005A	65
146.457	1295 303 060	IVE	009A	58	146.474	1315 303 050	MAN	007A	66	147.094	1295 305 052	MAN	005A	65
146.457	1295 303 060	RVI	014A	58	146.474	1315 303 050	MAN	008A	66	147.094	1295 305 052	IVE	009A	65
146.457	1295 303 060	DAF	019A	58	146.474	1315 303 050	IVE	012A	66	147.094	1295 305 052	IVE	009A	65
146.457	1295 303 060	DAF	020A	61	146.474	1315 303 050	IVE	013A	66	147.094	1295 305 052	IVE	010A	68
146.457	1295 303 060	VOL	024A	58	146.474	1315 303 050	RVI	016A	66	147.094	1295 305 052	RVI	014A	65
146.461	1295 303 094	MB	001A	51	146.474	1315 303 050	RVI	017A	66	147.094	1295 305 052	DAF	018A	57
146.461	1295 303 094	MB	002A	59	146.474	1315 303 050	DAF	022A	66	147.094	1295 305 052	DAF	019A	65
146.461	1295 303 094	MAN	004A	51	146.474	1315 303 050	DAF	023A	66	147.094	1295 305 052	DAF	019A	65
146.461	1295 303 094	MAN	005A	59	146.475	1313 303 004	MAN	006A	58	147.094	1295 305 052	DAF	019A	65
146.461	1295 303 094	IVE	009A	59	146.475	1313 303 004	IVE	011A	58	147.094	1295 305 052	DAF	020A	68
146.461	1295 303 094	RVI	014A	59	146.475	1313 303 004	RVI	015A	58	147.094	1295 305 052	DAF	020A	68
146.461	1295 303 094	DAF	019A	59	146.475	1313 303 004	DAF	021A	58	147.094	1295 305 052	DAF	020A	68
146.461	1295 303 094	DAF	020A	62	146.476	1313 304 005	MAN	006A	26	147.094	1295 305 052	VOL	024A	65
146.461	1295 303 094	VOL	024A	59	146.476	1313 304 005	IVE	011A	26	147.094	1295 305 052	VOL	024A	65
146.464	1295 304 181	MB	001A	26	146.476	1313 304 005	RVI	015A	26	147.094	1295 305 052	VOL	025A	68
146.464	1295 304 181	MAN	004A	26	146.476	1313 304 005	DAF	021A	26	147.109	1297 304 149	MB	001A	41
146.465	1295 304 182	MB	001A	26	146.485	1316 303 056	MAN	008A	65	147.109	1297 304 149	MB	002A	49
146.465	1295 304 182	MAN	004A	26	146.485	1316 303 056	IVE	013A	65	147.109	1297 304 149	MAN	004A	41
146.466	1295 304 303	MB	001A	26	146.485	1316 303 056	RVI	017A	65	147.109	1297 304 149	MAN	005A	49
146.466	1295 304 303	MAN	004A	26	146.485	1316 303 056	DAF	023A	65	147.109	1297 304 149	IVE	009A	49
146.467	1295 303 005	MB	001A	52	146.486	1316 303 030	MAN	007A	65	147.109	1297 304 149	IVE	010A	52
146.467	1295 303 005	MAN	004A	52	146.486	1316 303 030	MAN	008A	65	147.109	1297 304 149	DAF	018A	41
146.468	1295 303 006	MB	001A	52	146.486	1316 303 030	IVE	012A	65	147.109	1297 304 149	DAF	019A	49
146.468	1295 303 006	MAN	004A	52	146.486	1316 303 030	IVE	013A	65	147.109	1297 304 149	DAF	020A	52
146.469	1316 303 064	MAN	007A	65	146.486	1316 303 030	RVI	016A	65	147.109	1297 304 149	VOL	024A	49
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146.469	1316 303 064	IVE	012A	65	146.486	1316 303 030	DAF	022A	65	147.123	1315 304 006	MAN	007A	60
146.469	1316 303 064	IVE	013A	65	146.486	1316 303 030	DAF	023A	65	147.123	1315 304 006	MAN	008A	60
146.469	1316 303 064	RVI	016A	65	147.093	1295 304 200	MB	001A	41	147.123	1315 304 006	IVE	012A	60
146.469	1316 303 064	RVI	017A	65	147.093	1295 304 200	MB	002A	49	147.123	1315 304 006	IVE	013A	60
146.469	1316 303 064	DAF	022A	65	147.093	1295 304 200	MAN	004A	41	147.123	1315 304 006	RVI	016A	60
146.469	1316 303 064	DAF	023A	65	147.093	1295 304 200	MAN	005A	49	147.123	1315 304 006	RVI	017A	60
146.470	1316 303 040	MAN	008A	67	147.093	1295 304 200	IVE	009A	49	147.123	1315 304 006	DAF	022A	60
146.470	1316 303 040	RVI	017A	67	147.093	1295 304 200	RVI	014A	49	147.123	1315 304 006	DAF	023A	60
146.470	1316 303 040	DAF	023A	67	147.093	1295 304 200	DAF	019A	49	147.124	1315 304 013	MAN	007A	60
146.473	1315 303 051	MAN	007A	65	147.093	1295 304 200	DAF	020A	52	147.124	1315 304 013	MAN	008A	60
146.473	1315 303 051	MAN	008A	65	147.093	1295 304 200	VOL	024A	49	147.124	1315 304 013	IVE	012A	60
146.473	1315 303 051	IVE	012A	65	147.094	1295 305 052	MB	001A	57	147.124	1315 304 013	IVE	013A	60
146.473	1315 303 051	IVE	013A	65	147.094	1295 305 052	MB	002A	65	147.124	1315 304 013	RVI	016A	60

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147.124	1315 304 013	DAF	022A	60	147.133	1295 305 051	DAF	019A	65	147.140	1297 304 148	DAF	020A	52
147.124	1315 304 013	DAF	023A	60	147.133	1295 305 051	DAF	019A	65	147.140	1297 304 148	VOL	024A	49
147.126	1315 305 002	MAN	007A	71	147.133	1295 305 051	DAF	020A	68	147.140	1297 304 148	VOL	025A	52
147.126	1315 305 002	MAN	008A	71	147.133	1295 305 051	DAF	020A	68	147.141	1312 304 088	MB	003A	54
147.126	1315 305 002	IVE	012A	71	147.133	1295 305 051	VOL	024A	65	147.141	1312 304 088	MAN	006A	54
147.126	1315 305 002	IVE	013A	71	147.133	1295 305 051	VOL	024A	65	147.141	1312 304 088	IVE	011A	54
147.126	1315 305 002	RVI	016A	71	147.133	1295 305 051	VOL	025A	68	147.141	1312 304 088	DAF	021A	54
147.126	1315 305 002	RVI	017A	71	147.134	1297 305 011	MB	003A	65	147.142	1315 305 005	MAN	007A	71
147.126	1315 305 002	DAF	022A	71	147.134	1297 305 011	MAN	006A	65	147.142	1315 305 005	MAN	008A	71
147.126	1315 305 002	DAF	023A	71	147.134	1297 305 011	IVE	011A	65	147.142	1315 305 005	IVE	012A	71
147.127	1316 305 001	MAN	007A	71	147.134	1297 305 011	DAF	021A	65	147.142	1315 305 005	IVE	013A	71
147.127	1316 305 001	MAN	008A	71	147.135	1297 305 012	MB	003A	65	147.142	1315 305 005	RVI	016A	71
147.127	1316 305 001	IVE	012A	71	147.135	1297 305 012	MAN	006A	65	147.142	1315 305 005	RVI	017A	71
147.127	1316 305 001	IVE	013A	71	147.135	1297 305 012	IVE	011A	65	147.142	1315 305 005	DAF	022A	71
147.127	1316 305 001	RVI	016A	71	147.135	1297 305 012	DAF	021A	65	147.142	1315 305 005	DAF	023A	71
147.127	1316 305 001	RVI	017A	71	147.136	1296 304 097	MB	002A	49	147.143	1316 305 002	MAN	007A	71
147.127	1316 305 001	DAF	022A	71	147.136	1296 304 097	DAF	019A	49	147.143	1316 305 002	MAN	008A	71
147.127	1316 305 001	DAF	023A	71	147.136	1296 304 097	DAF	020A	52	147.143	1316 305 002	IVE	012A	71
147.128	1316 304 012	MAN	007A	60	147.137	1313 304 042	MAN	006A	54	147.143	1316 305 002	IVE	013A	71
147.128	1316 304 012	MAN	008A	60	147.137	1313 304 042	IVE	011A	54	147.143	1316 305 002	RVI	016A	71
147.128	1316 304 012	IVE	012A	60	147.137	1313 304 042	RVI	015A	54	147.143	1316 305 002	RVI	017A	71
147.128	1316 304 012	IVE	013A	60	147.137	1313 304 042	DAF	021A	54	147.143	1316 305 002	DAF	022A	71
147.128	1316 304 012	RVI	016A	60	147.138	1295 304 201	MB	001A	41	147.143	1316 305 002	DAF	023A	71
147.128	1316 304 012	RVI	017A	60	147.138	1295 304 201	MB	002A	49	147.144	1316 304 015	MAN	007A	60
147.128	1316 304 012	DAF	022A	60	147.138	1295 304 201	MAN	004A	41	147.144	1316 304 015	MAN	008A	60
147.128	1316 304 012	DAF	023A	60	147.138	1295 304 201	MAN	005A	49	147.144	1316 304 015	IVE	012A	60
147.132	1313 305 002	MAN	006A	65	147.138	1295 304 201	IVE	009A	49	147.144	1316 304 015	IVE	013A	60
147.132	1313 305 002	IVE	011A	65	147.138	1295 304 201	RVI	014A	49	147.144	1316 304 015	RVI	016A	60
147.132	1313 305 002	RVI	015A	65	147.138	1295 304 201	DAF	019A	49	147.144	1316 304 015	RVI	017A	60
147.132	1313 305 002	DAF	021A	65	147.138	1295 304 201	DAF	020A	52	147.144	1316 304 015	DAF	022A	60
147.133	1295 305 051	MB	001A	57	147.138	1295 304 201	VOL	024A	49	147.144	1316 304 015	DAF	023A	60
147.133	1295 305 051	MB	002A	65	147.139	1312 304 087	MB	003A	54	147.147	1313 304 041	MAN	006A	54
147.133	1295 305 051	MB	002A	65	147.139	1312 304 087	MAN	006A	54	147.147	1313 304 041	IVE	011A	54
147.133	1295 305 051	MAN	004A	57	147.139	1312 304 087	IVE	011A	54	147.147	1313 304 041	RVI	015A	54
147.133	1295 305 051	MAN	005A	65	147.139	1312 304 087	DAF	021A	54	147.147	1313 304 041	DAF	021A	54
147.133	1295 305 051	MAN	005A	65	147.140	1297 304 148	MB	001A	41	147.148	1313 305 001	MAN	006A	65
147.133	1295 305 051	IVE	009A	65	147.140	1297 304 148	MB	002A	49	147.148	1313 305 001	IVE	011A	65
147.133	1295 305 051	IVE	009A	65	147.140	1297 304 148	MAN	004A	41	147.148	1313 305 001	RVI	015A	65
147.133	1295 305 051	IVE	009A	65	147.140	1297 304 148	MAN	005A	49	147.148	1313 305 001	DAF	021A	65
147.133	1295 305 051	IVE	010A	68	147.140	1297 304 148	IVE	009A	49	147.151	1296 304 098	MB	002A	49
147.133	1295 305 051	RVI	014A	65	147.140	1297 304 148	IVE	010A	52	147.151	1296 304 098	DAF	019A	49
147.133	1295 305 051	DAF	018A	57	147.140	1297 304 148	DAF	018A	41	147.152	1295 304 115	MAN	004A	41

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147.152	1295 304 115	DAF	019A 49	150.112	1295 332 021	DAF	020B 11	150.137	1297 332 035	VOL	024B 11
147.153	1297 305 003	MB	002A 65	150.112	1295 332 021	DAF	020B 11	150.137	1297 332 035	VOL	024B 11
147.153	1297 305 003	MAN	004A 57	150.112	1295 332 021	VOL	024B 11	150.137	1297 332 035	VOL	025B 11
147.153	1297 305 003	MAN	005A 65	150.133	1313 332 020	MAN	006B 10	150.138	1297 332 017	MB	001B 11
147.153	1297 305 003	MAN	005A 65	150.133	1313 332 020	MAN	007B 10	150.138	1297 332 017	MB	002B 11
147.153	1297 305 003	IVE	009A 65	150.133	1313 332 020	IVE	011B 10	150.138	1297 332 017	MAN	004B 11
147.153	1297 305 003	RVI	014A 65	150.133	1313 332 020	IVE	012B 10	150.138	1297 332 017	MAN	005B 11
147.153	1297 305 003	DAF	019A 65	150.133	1313 332 020	RVI	015B 10	150.138	1297 332 017	IVE	009B 11
147.153	1297 305 003	DAF	019A 65	150.133	1313 332 020	RVI	016B 10	150.138	1297 332 017	IVE	010B 11
147.153	1297 305 003	DAF	020A 68	150.133	1313 332 020	DAF	021B 10	150.138	1297 332 017	DAF	018B 11
147.153	1297 305 003	VOL	024A 65	150.133	1313 332 020	DAF	022B 10	150.138	1297 332 017	DAF	019B 11
149.171	1312 234 002	MB	001B 42	150.134	1297 332 120	MB	002B 11	150.138	1297 332 017	DAF	020B 11
149.171	1312 234 002	MB	002B 42	150.134	1297 332 120	MB	003B 10	150.138	1297 332 017	VOL	024B 11
149.171	1312 234 002	MB	003B 45	150.134	1297 332 120	MAN	005B 11	150.138	1297 332 017	VOL	025B 11
149.171	1312 234 002	MAN	004B 42	150.134	1297 332 120	MAN	006B 10	150.140	1315 332 002	MAN	007B 10
149.171	1312 234 002	MAN	005B 42	150.134	1297 332 120	MAN	007B 10	150.140	1315 332 002	IVE	012B 10
149.171	1312 234 002	MAN	006B 45	150.134	1297 332 120	IVE	009B 11	150.140	1315 332 002	RVI	016B 10
149.171	1312 234 002	IVE	009B 42	150.134	1297 332 120	IVE	010B 11	150.140	1315 332 002	DAF	022B 10
149.171	1312 234 002	IVE	010B 43	150.134	1297 332 120	IVE	011B 10	150.142	1295 332 084	MB	001B 11
149.171	1312 234 002	IVE	011B 45	150.134	1297 332 120	IVE	012B 10	150.142	1295 332 084	MAN	004B 11
149.171	1312 234 002	RVI	014B 42	150.134	1297 332 120	RVI	016B 10	154.051	1257 304 020	MB	002A 43
149.171	1312 234 002	DAF	018B 42	150.134	1297 332 120	DAF	019B 11	154.051	1257 304 020	MAN	005A 43
149.171	1312 234 002	DAF	019B 42	150.134	1297 332 120	DAF	021B 10	154.051	1257 304 020	IVE	009A 43
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149.171	1312 234 002	VOL	024B 42	150.136	1316 332 103	IVE	013B 10	154.051	1257 304 020	VOL	024A 43
149.171	1312 234 002	VOL	025B 43	150.136	1316 332 103	RVI	017B 10	154.097	1295 304 002	MB	001A 21
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149.172	1295 312 018	DAF	020B 35	150.137	1297 332 035	MAN	005B 11	154.097	1295 304 002	MAN	005A 34
149.172	1295 312 018	VOL	024B 34	150.137	1297 332 035	MAN	005B 11	154.097	1295 304 002	MAN	005A 43
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150.112	1295 332 021	MB	002B 11	150.137	1297 332 035	IVE	009B 11	154.097	1295 304 002	IVE	009A 34
150.112	1295 332 021	MB	002B 11	150.137	1297 332 035	IVE	010B 11	154.097	1295 304 002	IVE	009A 43
150.112	1295 332 021	MAN	004B 11	150.137	1297 332 035	RVI	014B 11	154.097	1295 304 002	IVE	010A 17
150.112	1295 332 021	MAN	005B 11	150.137	1297 332 035	DAF	018B 11	154.097	1295 304 002	RVI	014A 17
150.112	1295 332 021	IVE	009B 11	150.137	1297 332 035	DAF	019B 11	154.097	1295 304 002	RVI	014A 34
150.112	1295 332 021	RVI	014B 11	150.137	1297 332 035	DAF	019B 11	154.097	1295 304 002	RVI	014A 43
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154.097	1295 304 002	DAF	019A	34	154.135	1310 304 202	IVE	012A	24	154.202	1316 304 078	MAN	008A	53
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154.098	1296 333 023	MB	002B	21	154.135	1310 304 202	RVI	017A	23	154.202	1316 304 078	DAF	022A	53
154.098	1296 333 023	MB	003B	20	154.135	1310 304 202	RVI	017A	36	154.202	1316 304 078	DAF	023A	53
154.098	1296 333 023	MAN	004B	21	154.135	1310 304 202	DAF	020A	36	154.211	1295 304 179	MB	001A	28
154.098	1296 333 023	MAN	005B	21	154.135	1310 304 202	DAF	021A	18	154.211	1295 304 179	MAN	004A	28
154.098	1296 333 023	MAN	006B	20	154.135	1310 304 202	DAF	021A	30	154.212	1295 304 178	MB	001A	34
154.098	1296 333 023	MAN	007B	20	154.135	1310 304 202	DAF	022A	24	154.212	1295 304 178	MAN	004A	34
154.098	1296 333 023	MAN	008B	23	154.135	1310 304 202	DAF	022A	36	154.357	1315 304 135	MB	003A	30
154.098	1296 333 023	IVE	009B	21	154.135	1310 304 202	DAF	023A	23	154.357	1315 304 135	MAN	006A	30
154.098	1296 333 023	IVE	010B	21	154.135	1310 304 202	DAF	023A	36	154.357	1315 304 135	MAN	007A	36
154.098	1296 333 023	IVE	011B	20	154.135	1310 304 202	VOL	025A	36	154.357	1315 304 135	MAN	008A	36
154.098	1296 333 023	IVE	012B	20	154.136	1297 304 450	IVE	010A	45	154.357	1315 304 135	IVE	011A	30
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154.098	1296 333 023	RVI	016B	20	154.136	1297 304 450	VOL	025A	45	154.357	1315 304 135	RVI	016A	36
154.098	1296 333 023	RVI	017B	23	154.188	1297 304 119	MB	001A	34	154.357	1315 304 135	RVI	017A	36
154.098	1296 333 023	DAF	018B	21	154.188	1297 304 119	MAN	004A	34	154.357	1315 304 135	DAF	021A	30
154.098	1296 333 023	DAF	019B	21	154.188	1297 304 119	DAF	018A	34	154.357	1315 304 135	DAF	022A	36
154.098	1296 333 023	DAF	020B	21	154.189	1297 304 120	MB	001A	28	154.357	1315 304 135	DAF	023A	36
154.098	1296 333 023	DAF	021B	20	154.189	1297 304 120	MAN	004A	28	154.358	1315 304 136	MAN	006A	40
154.098	1296 333 023	DAF	022B	20	154.189	1297 304 120	DAF	018A	28	154.358	1315 304 136	MAN	007A	53
154.098	1296 333 023	DAF	023B	23	154.190	1310 304 175	MB	003A	47	154.358	1315 304 136	MAN	008A	53
154.098	1296 333 023	VOL	024B	21	154.190	1310 304 175	MAN	006A	47	154.358	1315 304 136	IVE	011A	40
154.098	1296 333 023	VOL	025B	21	154.190	1310 304 175	MAN	007A	48	154.358	1315 304 136	IVE	012A	53
154.135	1310 304 202	MB	003A	18	154.190	1310 304 175	MAN	008A	48	154.358	1315 304 136	IVE	013A	53
154.135	1310 304 202	MB	003A	30	154.190	1310 304 175	IVE	011A	47	154.358	1315 304 136	RVI	015A	40
154.135	1310 304 202	MAN	006A	18	154.190	1310 304 175	IVE	012A	48	154.358	1315 304 136	RVI	016A	53
154.135	1310 304 202	MAN	006A	30	154.190	1310 304 175	IVE	013A	48	154.358	1315 304 136	RVI	017A	53
154.135	1310 304 202	MAN	007A	24	154.190	1310 304 175	RVI	016A	48	154.358	1315 304 136	DAF	021A	40
154.135	1310 304 202	MAN	007A	36	154.190	1310 304 175	RVI	017A	48	154.358	1315 304 136	DAF	022A	53
154.135	1310 304 202	MAN	008A	23	154.190	1310 304 175	DAF	021A	47	154.358	1315 304 136	DAF	023A	53
154.135	1310 304 202	MAN	008A	36	154.190	1310 304 175	DAF	022A	48	155.135	1286 304 026	MB	002A	23
154.135	1310 304 202	IVE	010A	36	154.190	1310 304 175	DAF	023A	48	155.135	1286 304 026	MAN	005A	23
154.135	1310 304 202	IVE	011A	18	154.202	1316 304 078	MAN	006A	40	155.135	1286 304 026	IVE	009A	23

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156.036	0732 040 386	MB	001A	18	156.037	0732 040 385	MAN	004B	20	156.140	0732 040 409	DAF	021A	13
156.036	0732 040 386	MB	001B	19	156.037	0732 040 385	MAN	005A	13	156.140	0732 040 409	DAF	022A	37
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156.036	0732 040 386	MAN	006B	18	156.037	0732 040 385	IVE	010B	20	156.176	1312 304 159	IVE	012A	49
156.036	0732 040 386	MAN	007B	18	156.037	0732 040 385	IVE	011B	19	156.176	1312 304 159	IVE	013A	49
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156.036	0732 040 386	IVE	009A	14	156.037	0732 040 385	IVE	013B	22	156.176	1312 304 159	RVI	017A	49
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156.036	0732 040 386	IVE	010A	14	156.037	0732 040 385	RVI	014B	20	156.176	1312 304 159	DAF	022A	49
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156.036	0732 040 386	IVE	011B	18	156.037	0732 040 385	RVI	016B	19	157.110	1297 304 031	MB	002A	33
156.036	0732 040 386	IVE	012B	18	156.037	0732 040 385	RVI	017B	22	157.110	1297 304 031	MB	002A	42
156.036	0732 040 386	IVE	013B	21	156.037	0732 040 385	DAF	018A	19	157.110	1297 304 031	MAN	005A	33
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156.036	0732 040 386	RVI	016B	18	156.037	0732 040 385	DAF	020A	13	157.110	1297 304 031	RVI	014A	33
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156.036	0732 040 386	DAF	018A	18	156.037	0732 040 385	DAF	021B	19	157.110	1297 304 031	DAF	019A	33
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157.139	1297 304 445	DAF	020A	44	157.182	1313 333 001	MAN	008B	19	157.198	1297 304 439	IVE	009A	52
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157.177	1297 304 187	MAN	005A	51	157.182	1313 333 001	DAF	022B	16	157.206	1297 304 265	DAF	018A	44
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157.227	1316 304 162	DAF	021A 29	160.116	1240 304 278	DAF	020A 15	160.192	0631 329 050	RVI	014B 4
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169.234	0730 150 064	VOL	025A	69	169.744	0730 107 168	MAN	008B	5	169.753	0501 306 212	DAF	020B	5
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169.408	0501 305 887	MB	002B	5	169.744	0730 107 168	IVE	009B	6	169.753	0501 306 212	VOL	024B	5
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169.408	0501 305 887	RVI	014B	5	169.744	0730 107 168	IVE	012B	6	169.754	0730 061 816	MB	003A	4
169.408	0501 305 887	DAF	019B	5	169.744	0730 107 168	IVE	013B	5	169.754	0730 061 816	MAN	004A	9
169.408	0501 305 887	DAF	019B	5	169.744	0730 107 168	IVE	013B	5	169.754	0730 061 816	MAN	005A	4
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169.409	1295 304 240	IVE	009A	50	169.744	0730 107 168	RVI	017B	5	169.754	0730 061 816	RVI	015A	4
169.409	1295 304 240	RVI	014A	50	169.744	0730 107 168	RVI	017B	6	169.754	0730 061 816	DAF	018A	9
169.409	1295 304 240	DAF	019A	50	169.744	0730 107 168	RVI	017B	6	169.754	0730 061 816	DAF	019A	4
169.409	1295 304 240	DAF	020A	53	169.744	0730 107 168	DAF	019B	6	169.754	0730 061 816	DAF	020A	4
169.409	1295 304 240	VOL	024A	50	169.744	0730 107 168	DAF	021B	6	169.754	0730 061 816	DAF	021A	4
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169.410	0730 103 846	MB	002B	6	169.744	0730 107 168	DAF	022B	6	169.754	0730 061 816	VOL	025A	4
169.410	0730 103 846	MB	003B	6	169.744	0730 107 168	DAF	023B	5	169.755	0730 062 579	MB	001A	9
169.410	0730 103 846	MAN	004B	6	169.744	0730 107 168	DAF	023B	5	169.755	0730 062 579	MB	002A	4

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169.755	0730 062 579	DAF	020A	4	171.016	0735 470 057	MB	002B	7	171.062	0750 119 116	MAN	007B	7
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169.756	1296 304 117	MB	002A	50	171.016	0735 470 057	MAN	005B	7	171.062	0750 119 116	IVE	010B	7
169.756	1296 304 117	DAF	019A	50	171.016	0735 470 057	IVE	009B	7	171.062	0750 119 116	IVE	011B	7
169.756	1296 304 117	DAF	020A	53	171.016	0735 470 057	RVI	014B	7	171.062	0750 119 116	IVE	011B	7
169.757	1297 304 381	MB	002A	50	171.016	0735 470 057	DAF	019B	7	171.062	0750 119 116	IVE	012B	7
169.757	1297 304 381	MAN	005A	50	171.016	0735 470 057	DAF	019B	7	171.062	0750 119 116	IVE	013B	7
169.757	1297 304 381	IVE	009A	50	171.016	0735 470 057	DAF	020B	7	171.062	0750 119 116	RVI	016B	7
169.757	1297 304 381	IVE	010A	53	171.016	0735 470 057	DAF	020B	7	171.062	0750 119 116	RVI	017B	7
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169.757	1297 304 381	VOL	024A	50	171.045	0750 119 109	MB	002B	7	171.062	0750 119 116	DAF	021B	7
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169.759	0501 308 981	MAN	006B	5	171.045	0750 119 109	RVI	014B	7	187.412	0737 502 092	MB	002A	28
169.759	0501 308 981	MAN	006B	5	171.045	0750 119 109	DAF	018B	7	187.412	0737 502 092	MAN	004A	24
169.759	0501 308 981	MAN	007B	5	171.045	0750 119 109	DAF	019B	7	187.412	0737 502 092	MAN	005A	28
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169.759	0501 308 981	IVE	012B	5	171.045	0750 119 109	VOL	024B	7	187.412	0737 502 092	DAF	019A	28
169.759	0501 308 981	RVI	015B	5	171.045	0750 119 109	VOL	025B	7	187.412	0737 502 092	DAF	020A	28
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169.759	0501 308 981	DAF	021B	5	171.046	0735 470 164	IVE	012B	7	187.588	3081 303 063	MAN	004A	24
169.759	0501 308 981	DAF	022B	5	171.046	0735 470 164	RVI	015B	7	188.076	1272 304 021	MB	001A	46
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188.076	1272 304 021	VOL	025A 56	188.209	1312 304 150	DAF	021A 56	190.169	1295 232 044	MB	002B 1
188.077	1295 332 051	MB	001B 28	188.209	1312 304 150	DAF	022A 62	190.169	1295 232 044	MAN	004B 1
188.077	1295 332 051	MB	002B 28	188.209	1312 304 150	DAF	023A 62	190.169	1295 232 044	MAN	005B 1
188.077	1295 332 051	MAN	004B 28	189.421	1296 312 053	MB	001B 37	190.169	1295 232 044	IVE	009B 1
188.077	1295 332 051	MAN	005B 28	189.421	1296 312 053	MB	002B 37	190.169	1295 232 044	RVI	014B 1
188.077	1295 332 051	MAN	006B 27	189.421	1296 312 053	MAN	004B 37	190.169	1295 232 044	DAF	019B 1
188.077	1295 332 051	IVE	009B 28	189.421	1296 312 053	MAN	005B 37	190.169	1295 232 044	DAF	019B 1
188.077	1295 332 051	IVE	010B 28	189.421	1296 312 053	IVE	009B 37	190.169	1295 232 044	DAF	020B 1
188.077	1295 332 051	IVE	011B 27	189.421	1296 312 053	IVE	010B 38	190.169	1295 232 044	DAF	020B 1
188.077	1295 332 051	RVI	014B 28	189.421	1296 312 053	RVI	014B 37	190.169	1295 232 044	VOL	024B 1
188.077	1295 332 051	RVI	015B 27	189.421	1296 312 053	DAF	018B 37	190.296	1315 202 012	MAN	007A 18
188.077	1295 332 051	DAF	018B 28	189.421	1296 312 053	DAF	019B 37	190.296	1315 202 012	IVE	012A 18
188.077	1295 332 051	DAF	019B 28	189.421	1296 312 053	DAF	020B 38	190.296	1315 202 012	RVI	016A 18
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188.077	1295 332 051	VOL	024B 28	189.422	1296 334 039	MB	001B 44	190.297	1316 202 005	IVE	012A 18
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188.078	1269 302 065	MB	002A 24	189.422	1296 334 039	MB	003B 43	190.297	1316 202 005	DAF	022A 18
188.078	1269 302 065	MAN	005A 24	189.422	1296 334 039	MAN	004B 44	190.300	1316 202 026	MAN	007A 21
188.078	1269 302 065	IVE	009A 24	189.422	1296 334 039	MAN	005B 44	190.300	1316 202 026	MAN	008A 20
188.078	1269 302 065	IVE	010A 24	189.422	1296 334 039	MAN	006B 43	190.300	1316 202 026	IVE	012A 21
188.208	0730 062 323	MB	001A 20	189.422	1296 334 039	MAN	007B 43	190.300	1316 202 026	IVE	013A 20
188.208	0730 062 323	MB	002A 16	189.422	1296 334 039	MAN	008B 45	190.300	1316 202 026	RVI	016A 21
188.208	0730 062 323	MAN	004A 20	189.422	1296 334 039	IVE	009B 44	190.300	1316 202 026	RVI	017A 20
188.208	0730 062 323	MAN	005A 16	189.422	1296 334 039	IVE	010B 45	190.300	1316 202 026	DAF	022A 21
188.208	0730 062 323	IVE	009A 16	189.422	1296 334 039	IVE	011B 43	190.300	1316 202 026	DAF	023A 20
188.208	0730 062 323	IVE	010A 16	189.422	1296 334 039	IVE	012B 43	190.301	1316 201 029	MAN	007A 72
188.208	0730 062 323	RVI	014A 16	189.422	1296 334 039	IVE	013B 45	190.301	1316 201 029	MAN	008A 72
188.208	0730 062 323	DAF	018A 20	189.422	1296 334 039	RVI	014B 44	190.301	1316 201 029	IVE	012A 72
188.208	0730 062 323	DAF	019A 16	189.422	1296 334 039	RVI	015B 43	190.301	1316 201 029	IVE	013A 72
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188.208	0730 062 323	VOL	025A 16	189.422	1296 334 039	DAF	018B 44	190.301	1316 201 029	DAF	022A 72
188.209	1312 304 150	MB	003A 56	189.422	1296 334 039	DAF	019B 44	190.301	1316 201 029	DAF	023A 72
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190.302	1315 305 009	IVE	012A 73	190.317	1315 221 002	MAN	008A 20	190.395	1297 232 045	MAN	005B 1
190.302	1315 305 009	IVE	013A 73	190.317	1315 221 002	IVE	012A 21	190.395	1297 232 045	MAN	005B 1
190.302	1315 305 009	RVI	016A 73	190.317	1315 221 002	IVE	013A 20	190.395	1297 232 045	IVE	009B 1
190.302	1315 305 009	RVI	017A 73	190.317	1315 221 002	RVI	016A 21	190.395	1297 232 045	IVE	009B 1
190.302	1315 305 009	DAF	022A 73	190.317	1315 221 002	RVI	017A 20	190.395	1297 232 045	IVE	010B 1
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190.303	1316 202 025	MAN	007A 21	190.317	1315 221 002	DAF	023A 20	190.395	1297 232 045	DAF	018B 1
190.303	1316 202 025	MAN	008A 20	190.325	1316 232 019	MAN	008B 1	190.395	1297 232 045	DAF	019B 1
190.303	1316 202 025	IVE	012A 21	190.325	1316 232 019	MAN	008B 1	190.395	1297 232 045	DAF	019B 1
190.303	1316 202 025	IVE	013A 20	190.325	1316 232 019	IVE	013B 1	190.395	1297 232 045	DAF	020B 1
190.303	1316 202 025	RVI	016A 21	190.325	1316 232 019	IVE	013B 1	190.395	1297 232 045	DAF	020B 1
190.303	1316 202 025	RVI	017A 20	190.325	1316 232 019	RVI	017B 1	190.395	1297 232 045	DAF	020B 1
190.303	1316 202 025	DAF	022A 21	190.325	1316 232 019	RVI	017B 1	190.395	1297 232 045	VOL	024B 1
190.303	1316 202 025	DAF	023A 20	190.325	1316 232 019	DAF	023B 1	190.395	1297 232 045	VOL	024B 1
190.304	1315 202 037	MAN	007A 21	190.325	1316 232 019	DAF	023B 1	190.395	1297 232 045	VOL	025B 1
190.304	1315 202 037	MAN	008A 20	190.392	1316 232 006	MB	003B 1	190.396	1297 232 039	MB	001B 1
190.304	1315 202 037	IVE	012A 21	190.392	1316 232 006	MAN	006B 1	190.396	1297 232 039	MB	002B 1
190.304	1315 202 037	IVE	013A 20	190.392	1316 232 006	MAN	007B 1	190.396	1297 232 039	MAN	004B 1
190.304	1315 202 037	RVI	016A 21	190.392	1316 232 006	IVE	011B 1	190.396	1297 232 039	MAN	005B 1
190.304	1315 202 037	RVI	017A 20	190.392	1316 232 006	IVE	012B 1	190.396	1297 232 039	IVE	009B 1
190.304	1315 202 037	DAF	022A 21	190.392	1316 232 006	IVE	012B 1	190.396	1297 232 039	IVE	010B 1
190.304	1315 202 037	DAF	023A 20	190.392	1316 232 006	RVI	016B 1	190.396	1297 232 039	DAF	018B 1
190.309	1315 202 022	MAN	007A 18	190.392	1316 232 006	DAF	021B 1	190.396	1297 232 039	DAF	018B 1
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190.310	1316 202 033	MAN	008A 20	190.393	1296 232 002	IVE	012B 1	190.396	1297 232 039	VOL	025B 1
190.310	1316 202 033	IVE	012A 21	190.393	1296 232 002	RVI	015B 1	<b>196.270</b>	1316 233 014	MAN	008B 25
190.310	1316 202 033	IVE	013A 20	190.393	1296 232 002	RVI	016B 1	<b>196.270</b>	1316 233 014	IVE	013B 25
190.310	1316 202 033	RVI	016A 21	190.393	1296 232 002	DAF	021B 1	<b>196.270</b>	1316 233 014	RVI	017B 25
190.310	1316 202 033	RVI	017A 20	190.393	1296 232 002	DAF	022B 1	<b>196.270</b>	1316 233 014	DAF	023B 25
190.310	1316 202 033	DAF	022A 21	190.393	1296 232 002	DAF	022B 1	196.352	1316 233 010	MAN	007B 22
190.310	1316 202 033	DAF	023A 20	190.394	1315 232 016	MAN	008B 1	196.352	1316 233 010	IVE	012B 22
190.315	1315 202 040	MAN	007A 21	190.394	1315 232 016	MAN	008B 1	196.352	1316 233 010	RVI	016B 22
190.315	1315 202 040	MAN	008A 20	190.394	1315 232 016	IVE	013B 1	196.352	1316 233 010	DAF	022B 22
190.315	1315 202 040	IVE	012A 21	190.394	1315 232 016	IVE	013B 1	196.353	1315 233 023	MAN	007B 22
190.315	1315 202 040	IVE	013A 20	190.394	1315 232 016	RVI	017B 1	196.353	1315 233 023	IVE	012B 22
190.315	1315 202 040	RVI	016A 21	190.394	1315 232 016	RVI	017B 1	196.353	1315 233 023	RVI	016B 22
190.315	1315 202 040	RVI	017A 20	190.394	1315 232 016	DAF	023B 1	196.353	1315 233 023	DAF	022B 22
190.315	1315 202 040	DAF	022A 21	190.394	1315 232 016	DAF	023B 1	197.051	1295 338 014	MB	001B 27
190.315	1315 202 040	DAF	023A 20	190.395	1297 232 045	MB	001B 1	197.051	1295 338 014	MB	002B 27
				190.395	1297 232 045	MB	002B 1	197.051	1295 338 014	MB	002B 27
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197.051	1295 338 014	RVI	014B	27	198.339	1268 298 938	DAF	023B	50	198.359	1295 233 025	DAF	020B	22
197.051	1295 338 014	DAF	019B	27	198.339	1268 298 938	VOL	024A	68	198.359	1295 233 025	DAF	020B	22
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197.051	1295 338 014	DAF	020B	27	198.339	1268 298 938	VOL	025A	70	198.360	1295 206 255	MB	002B	32
197.051	1295 338 014	VOL	024B	27	198.339	1268 298 938	VOL	025B	47	198.360	1295 206 255	MAN	005B	32
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197.074	1295 338 016	IVE	009B	27	198.357	1295 232 027	MB	002B	8	198.360	1295 206 255	DAF	019B	32
197.074	1295 338 016	RVI	014B	27	198.357	1295 232 027	MAN	004B	8	198.360	1295 206 255	VOL	024B	32
197.074	1295 338 016	DAF	019B	27	198.357	1295 232 027	MAN	005B	8	198.362	1295 206 213	MB	002B	30
197.074	1295 338 016	VOL	024B	27	198.357	1295 232 027	IVE	009B	8	198.362	1295 206 213	MAN	005B	30
198.339	1268 298 938	MB	001A	60	198.357	1295 232 027	RVI	014B	8	198.362	1295 206 213	IVE	009B	30
198.339	1268 298 938	MB	001B	46	198.357	1295 232 027	DAF	019B	8	198.362	1295 206 213	RVI	014B	30
198.339	1268 298 938	MB	002A	68	198.357	1295 232 027	DAF	019B	8	198.362	1295 206 213	DAF	019B	30
198.339	1268 298 938	MB	002B	46	198.357	1295 232 027	DAF	020B	8	198.362	1295 206 213	VOL	024B	30
198.339	1268 298 938	MB	003B	46	198.357	1295 232 027	DAF	020B	8	198.374	1313 233 001	MB	001B	22
198.339	1268 298 938	MAN	004A	60	198.357	1295 232 027	VOL	024B	8	198.374	1313 233 001	MB	002B	22
198.339	1268 298 938	MAN	004B	46	198.358	1296 233 006	MB	001B	15	198.374	1313 233 001	MB	002B	22
198.339	1268 298 938	MAN	005A	68	198.358	1296 233 006	MB	002B	15	198.374	1313 233 001	MAN	004B	22
198.339	1268 298 938	MAN	005B	46	198.358	1296 233 006	MB	003B	14	198.374	1313 233 001	MAN	005B	22
198.339	1268 298 938	MAN	006B	46	198.358	1296 233 006	MAN	004B	15	198.374	1313 233 001	MAN	005B	22
198.339	1268 298 938	MAN	007B	48	198.358	1296 233 006	MAN	005B	15	198.374	1313 233 001	MAN	006B	21
198.339	1268 298 938	MAN	008B	50	198.358	1296 233 006	MAN	006B	14	198.374	1313 233 001	MAN	007B	21
198.339	1268 298 938	IVE	009A	68	198.358	1296 233 006	IVE	009B	15	198.374	1313 233 001	IVE	009B	22
198.339	1268 298 938	IVE	009B	46	198.358	1296 233 006	IVE	010B	15	198.374	1313 233 001	IVE	009B	22
198.339	1268 298 938	IVE	010A	70	198.358	1296 233 006	IVE	011B	14	198.374	1313 233 001	IVE	010B	22
198.339	1268 298 938	IVE	010B	47	198.358	1296 233 006	RVI	014B	15	198.374	1313 233 001	IVE	011B	21
198.339	1268 298 938	IVE	011B	46	198.358	1296 233 006	RVI	015B	14	198.374	1313 233 001	IVE	012B	21
198.339	1268 298 938	IVE	012B	48	198.358	1296 233 006	DAF	018B	15	198.374	1313 233 001	RVI	014B	22
198.339	1268 298 938	IVE	013B	50	198.358	1296 233 006	DAF	019B	15	198.374	1313 233 001	RVI	015B	21
198.339	1268 298 938	RVI	014A	68	198.358	1296 233 006	DAF	020B	15	198.374	1313 233 001	RVI	016B	21
198.339	1268 298 938	RVI	014B	46	198.358	1296 233 006	DAF	021B	14	198.374	1313 233 001	DAF	018B	22
198.339	1268 298 938	RVI	015B	46	198.358	1296 233 006	VOL	024B	15	198.374	1313 233 001	DAF	019B	22
198.339	1268 298 938	RVI	016B	48	198.358	1296 233 006	VOL	025B	15	198.374	1313 233 001	DAF	019B	22
198.339	1268 298 938	RVI	017B	50	198.359	1295 233 025	MB	001B	22	198.374	1313 233 001	DAF	020B	22
198.339	1268 298 938	DAF	018A	60	198.359	1295 233 025	MB	002B	22	198.374	1313 233 001	DAF	020B	22
198.339	1268 298 938	DAF	018B	46	198.359	1295 233 025	MAN	004B	22	198.374	1313 233 001	DAF	021B	21
198.339	1268 298 938	DAF	019A	68	198.359	1295 233 025	MAN	005B	22	198.374	1313 233 001	DAF	022B	21
198.339	1268 298 938	DAF	019B	46	198.359	1295 233 025	MAN	005B	22	198.374	1313 233 001	VOL	024B	22
198.339	1268 298 938	DAF	020A	70	198.359	1295 233 025	IVE	009B	22	198.374	1313 233 001	VOL	024B	22
198.339	1268 298 938	DAF	020B	47	198.359	1295 233 025	RVI	014B	22	198.374	1313 233 001	VOL	025B	22
198.339	1268 298 938	DAF	021B	46	198.359	1295 233 025	DAF	019B	22	198.427	1295 298 915	MB	002A	72

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198.427	1295 298 915	MB	003A	69	198.428	1295 298 960	VOL	025B	50	198.564	CEI 198564	RVI	014B	47
198.427	1295 298 915	MB	003B	50	198.437	1295 232 038	MB	001B	8	198.564	CEI 198564	RVI	015B	47
198.427	1295 298 915	MAN	005A	72	198.437	1295 232 038	MAN	004B	8	198.564	CEI 198564	RVI	016B	49
198.427	1295 298 915	MAN	005B	51	198.447	CEI 198447	MB	001B	49	198.564	CEI 198564	RVI	017B	51
198.427	1295 298 915	MAN	006A	69	198.447	CEI 198447	MB	002B	49	198.564	CEI 198564	DAF	018A	61
198.427	1295 298 915	MAN	006B	50	198.447	CEI 198447	MAN	004B	49	198.564	CEI 198564	DAF	018B	47
198.427	1295 298 915	IVE	009A	72	198.447	CEI 198447	MAN	005B	49	198.564	CEI 198564	DAF	019A	69
198.427	1295 298 915	IVE	009B	51	198.447	CEI 198447	IVE	009B	49	198.564	CEI 198564	DAF	019B	47
198.427	1295 298 915	IVE	010A	75	198.447	CEI 198447	RVI	014B	49	198.564	CEI 198564	DAF	020A	71
198.427	1295 298 915	IVE	010B	51	198.447	CEI 198447	DAF	019B	49	198.564	CEI 198564	DAF	020B	48
198.427	1295 298 915	IVE	011A	69	198.447	CEI 198447	VOL	024B	49	198.564	CEI 198564	DAF	021B	47
198.427	1295 298 915	IVE	011B	50	198.562	1296 298 904	MB	001B	9	198.564	CEI 198564	DAF	022B	49
198.427	1295 298 915	RVI	014A	72	198.562	1296 298 904	MB	002B	9	198.564	CEI 198564	DAF	023B	51
198.427	1295 298 915	RVI	014B	51	198.562	1296 298 904	MB	002B	9	198.564	CEI 198564	VOL	024A	69
198.427	1295 298 915	RVI	015A	69	198.562	1296 298 904	MAN	004B	9	198.564	CEI 198564	VOL	024B	47
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