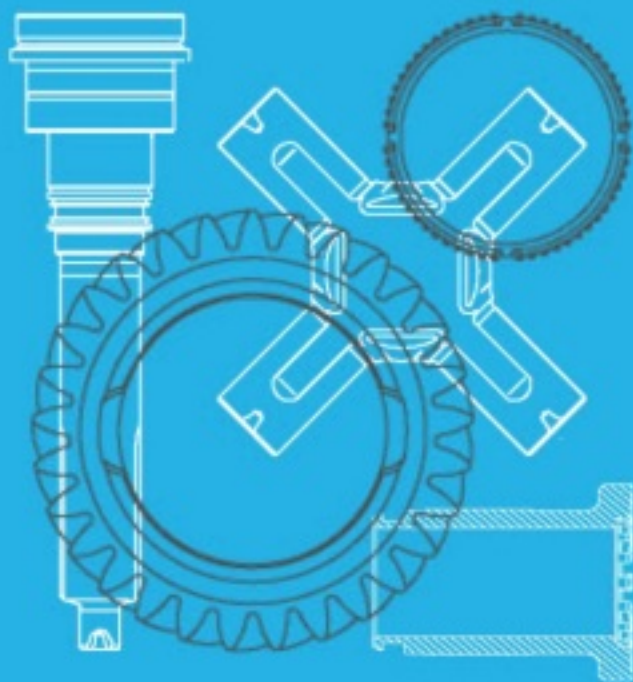




CEI

HIGH FIDELITY SPARE PARTS

Z.F. Ecomid



n°
295



Maggio 2006

2/3

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

SGQ N° 049A
SGA N° 018D

Membro di MLA EA per gli schemi di accreditamento SGQ, SGA, PRD e PRS
e di MLA IAF per gli schemi di accreditamento SGQ, 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 Mastroiello
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.
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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

ZF ÷ Evobus & Setra

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GARANZIA DI INTERCAMBIABILITÀ

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GARANTIE D'INTERCHANGEABILITE

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AUSTAUSCHBARKEITS-GARANTIE

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GARANTIA DE INTERCAMBIABILIDAD

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Las referencias originales impresas en nuestro catálogo figuran exclusivamente a título indicativo.

Suitable to: **Mercedes**

Gearboxes Index

MERCEDES
INDEX

EcoLite
Bus Applications

S6-85

EcoMid
Truck Applications

9S75

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suitable to :

Z.F.

EcoLite

S6-85

ECOLITE
S6-85

Application

	S6-85	6S-1600				
	(1310)	(1310)				
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

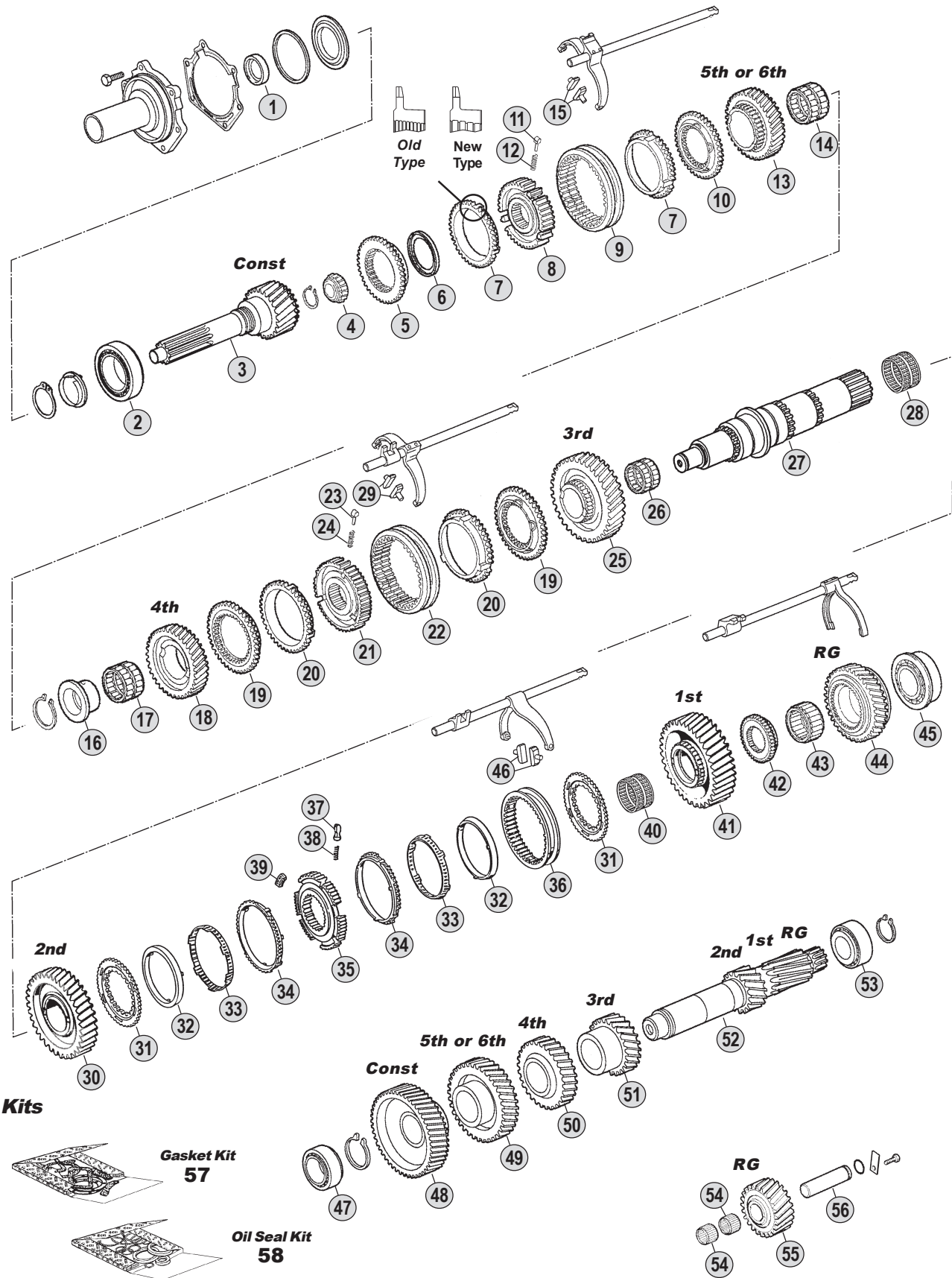
Ratios

Ratio	Note
6,75-0,83	A
7,72-1,00	B

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Suitable To : **ZF**

S6-85



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Ratios

S6-85 A : 6,75 - 0,83 B : 7,72 - 1,00

S6-85 (1310)

ECOLITE
S6-85

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	MB no.										
1	139.753	0750 111 149		Oil Seal D.48x65x10	1			●					
2	130.704	0750 117 347		Bearing D.70x115x29	1			●					
3	102.387	1310 302 001	000 262 1101	Input Shaft	1		A	●					
3	102.388	1310 302 025		Input Shaft	1		A	●					
3	102.389	1310 302 032		Input Shaft	1		A	●					
3	102.390	1310 302 026	000 262 0801	Input Shaft	1		B	●					
3	102.391	1310 302 022		Input Shaft	1		B	●					
3	102.392	1310 302 021		Input Shaft	1		B	●					
3	102.393	1310 302 033		Input Shaft	1		B	●					
4		0750 117 562	002 981 3681	Bearing D.28x32	1			●					
5	109.400	1310 302 023		Synchronizer Cone	1		A	●					
5	109.401	1310 302 024		Synchronizer Cone	1		B	●					
6	269.011	0501 313 171	000 262 0066	Oil Seal	1			●					
7	119.219	1311 304 076		Synchronizer Ring	2	Old Type		●					
7	119.220	1311 304 255	000 262 5134	Synchronizer Ring	2	New Type		●					
8	157.706	1311 304 226		Synchronizer Hub	1			●					
9	154.363	1304 304 664		Sliding Sleeve	1			●					
10	109.402	1311 304 009		Synchronizer Cone	1			●					
11	160.189	1297 304 436	000 264 0839	Pressure Piece	3			●					
12	156.140	0732 040 409	005 993 6101	Spring D.6,5x23,5	3			●					
13	145.886	1310 304 091		Gear 6th Speed 23 T	1		A	●					
13	145.887	1310 304 092		Gear 5th Speed 26 T	1		B	●					
14	137.269	0735 321 543		Needle Cage D.52x60x23	1			●					
15	141.194	1290 306 066	000 268 1449	Bronze Slide	2			●					
16	117.384	1311 304 124		Bush	1			●					
17	137.078	0735 320 493	008 981 0910	Needle Bearing D.70x78x36,50	1			●					
18	145.888	1310 304 088		Gear 4th Speed 29 T	1		A	●					
18	145.889	1310 304 093	000 262 5514	Gear 4th Speed 30 T	1		B	●					
19	109.134	1312 304 027	000 262 5535	Synchronizer Cone	2			●					
20	119.119	1297 304 402	000 262 3834	Synchronizer Ring	2	Old Type		●					
20	119.167	1297 304 484	000 262 7034	Synchronizer Ring	2	New Type		●					
21	157.707	1310 304 080		Synchronizer Hub	1			●					
22	154.135	1310 304 202	001 262 1823	Sliding Sleeve	1			●					
23	160.189	1297 304 436	000 264 0839	Pressure Piece	3			●					
24	156.140	0732 040 409	005 993 6101	Spring D.6,5x23,5	3			●					
25	145.890	1310 304 085		Gear 3rd Speed 35 T	1		A	●					
25	145.891	1310 304 124		Gear 3rd Speed 37 T	1		B	●					
26	137.270	0735 321 106		Needle Cage D.80x88x48	1			●					
27	103.195	1311 304 248		Main Shaft	1			●					
28	137.270	0735 321 106		Needle Cage D.80x88x48	1			●					
29	141.194	1290 306 066	000 268 1449	Bronze Slide	2			●					
30	145.892	1310 304 012	000 262 8112	Gear 2nd Speed 43 T	1			●					
31	109.176	1312 304 106	000 263 2120	Synchronizer Cone	2			●					
32	119.152	1268 304 424	000 262 2636	Intermediate Ring	2			●					
33	119.153	1268 304 494	000 262 3436	Intermediate Cone	2			●					

Notes

Date

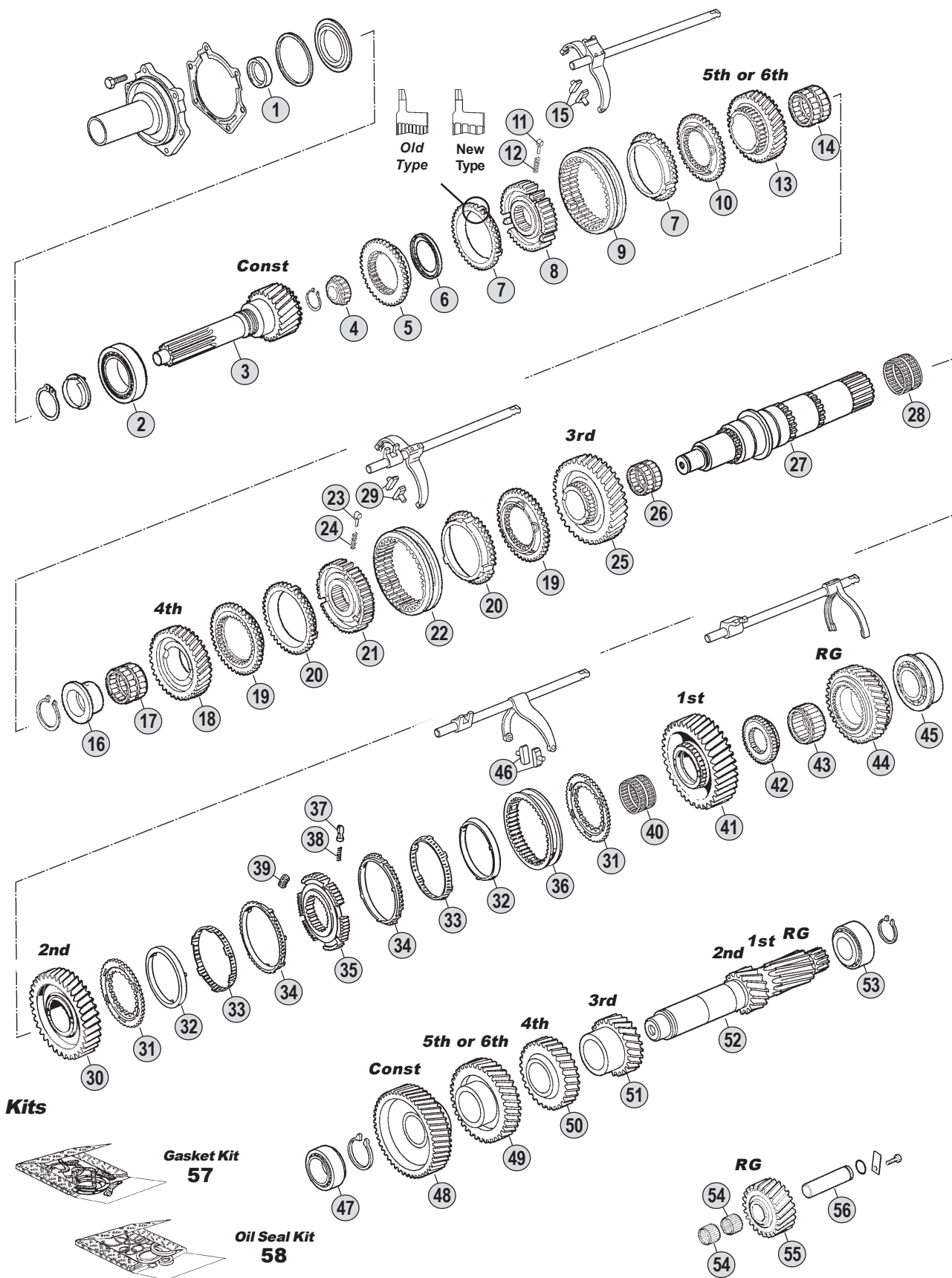
07 / 2006

Table

0010

Suitable To : **ZF**

S6-85



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Ratios

S6-85 A : 6,75 - 0,83 B : 7,72 - 1,00

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	MB no.											
34	119.144	1268 304 525	000 262 3934	Synchronizer Ring	2			●						
35	157.708	1310 304 157		Synchronizer Hub	1			●						
36	154.190	1310 304 175	001 262 1123	Sliding Sleeve	1			●						
37	160.189	1297 304 436	000 264 0839	Pressure Piece	3			●						
38	156.140	0732 040 409	005 993 6101	Spring D.6,5x23,5	3			●						
39	156.176	1312 304 159	000 262 4240	Pad	3			●						
40	137.271	0735 321 108		Needle Cage D.75x83x50	1			●						
41	145.893	1310 304 011		Gear 1st Speed 50 T	1			●						
42	157.709	1311 304 250		Synchronizer Hub	1			●						
43	137.272	0735 298 255		Needle Cage D.70x86x42,5	1			●						
44	147.238	1310 304 200		Reverse Gear	1			●						
45	130.705	0735 370 730		Bearing D.60x120x29,7	1			●						
46	141.194	1290 306 066	000 268 1449	Bronze Slide	2			●						
47	130.234	0750 117 083	009 981 3301	Bearing D.50,8x95,2x27,7	1			●						
48	146.600	1310 303 032		Constant Gear 47 T	1		A	●						
48	146.605	1310 303 044	000 263 9910	Constant Gear 50 T	1		B	●						
49	146.609	1310 303 033		Gear 6th Speed 45 T	1		A	●						
49	146.610	1310 303 045		Gear 5th Speed 37 T	1		B	●						
50	146.611	1310 303 051		Gear 4th Speed 32 T	1		A	●						
50	146.612	1310 303 050		Gear 4th Speed 29 T	1		B	●						
51	146.613	1310 303 031		Gear 3rd Speed 24 T	1		A	●						
51	146.614	1310 303 052	001 263 0010	Gear 3rd Speed 24 T	1		B	●						
52	105.191	1310 303 076		Countershaft	1			●						
53	130.233	1246 203 008	001 980 9602	Roller Bearing D.44,45x95,25x28	1			●						
54	137.273	0750 115 233		Needle Cage D.30x38x30	2			●						
55	147.239	1310 305 003		Reverse Gear 21 T	1			●						
56	107.201	1310 305 001		Reverse Pin	1			●						
57	298.039	1310 298 002		Gasket Kit	1			●						
58	298.040	1310 298 003		Oil Seals Kit	1			●						

Notes

Date

07 / 2006

Table

0010

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suitable to :

Z.F.

EcoMid

9S75

ECOMID
9S75

Application

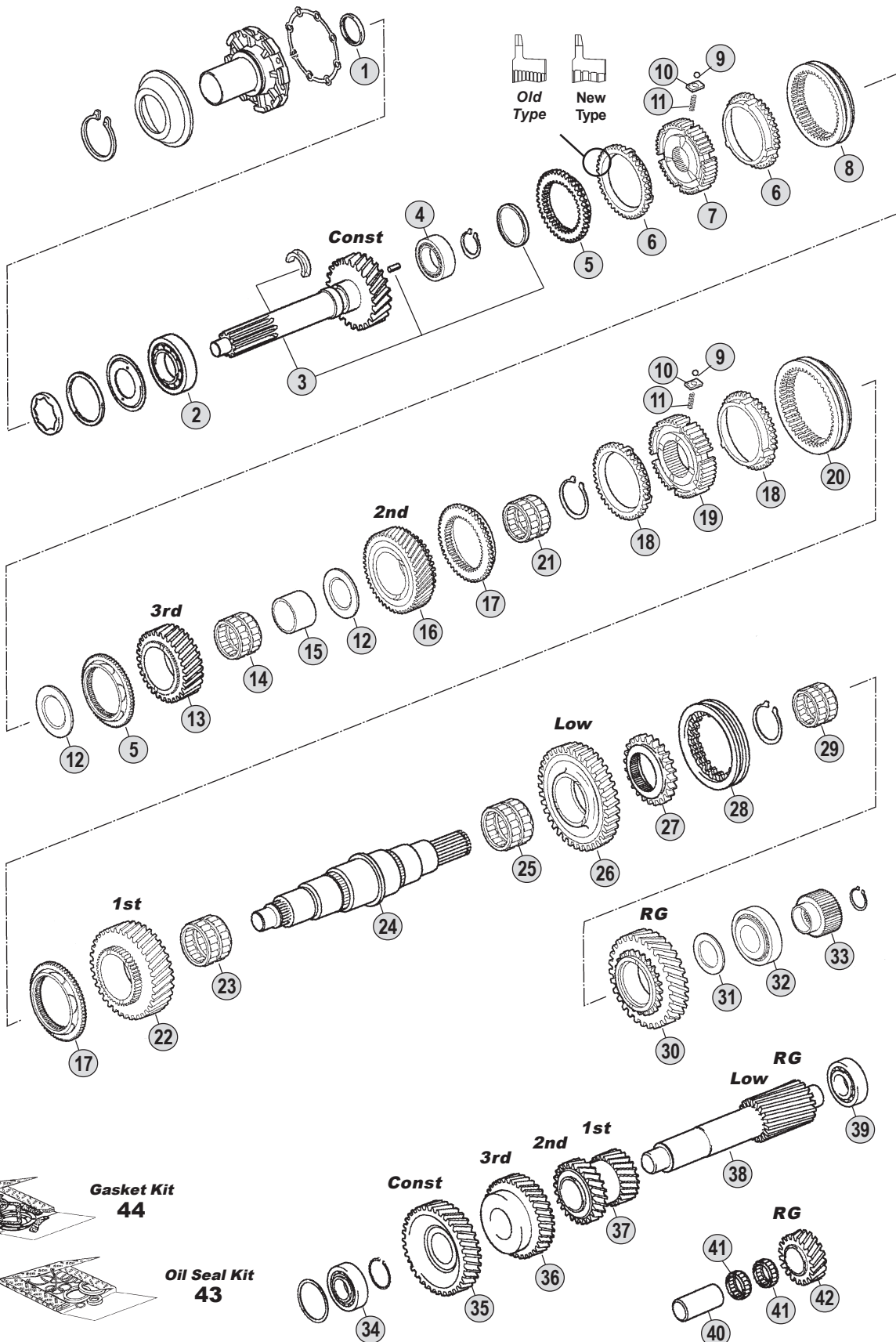
	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

Ratio	Note
13,16-1,00	--

Suitable To : **ZF**

9S75



Kits



Ratios

9S75 Ratio : 13,16 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	9S75 (1/308)						
		ZF no.	MB no.											
1	139.753	0750 111 149		Oil Seal D.48x65x10	1		●							
2	130.686	0750 117 312	009 981 2301	Roller Bearing D.50,8x104,7x30,	1		●							
3	190.331	1308 202 052	001 262 7702	Input Shaft 26 T	1		●							
3		1308 202 058	001 262 7802	Input shaft 26 T	1		●							
3	190.397	1308 202 048		Input Shaft 26 T	1		●							
3		1308 202 049		Input shaft 26 T	1 (1)		●							
3		1308 202 050		Input shaft 26 T	1 (1)		●							
4		1307 203 019	009 981 2601	Roller bearing D.31,7x66,4x25,4	1		●							
5	109.135	1308 304 078	000 262 8135	Synchronizer Cone	2		●							
6	119.174	1308 304 072	000 262 5434	Synchronizer Ring	2	Old type	●							
6	119.117	1308 304 097	000 262 9134	Synchronizer Ring	2	New Type	●							
7	157.219	1307 304 607	001 262 0835	Synchronizer Hub	1		●							
8	154.170	1308 304 090	000 262 8223	Sliding Sleeve	1		●							
9	171.014	0635 460 010	002 981 5685	Ball D.6	3		●							
10	139.553	1307 304 156	000 262 0218	Slide	3		●							
11	156.178	0732 041 571		Spring	3		●							
12	269.008	0730 108 172	000 262 5862	Washer A=4,15	2		●							
13	145.826	1308 304 064	000 262 7813	Gear 3rd Speed 30 T	1		●							
14	137.264	0735 321 494	018 981 1910	Needle Cage 60x68x41,6	1		●							
15	117.379	0730 162 428	000 262 4650	Bush A=42,30	1		●							
16	145.521	1308 304 054	000 262 8212	Gear 2nd Speed 30 T	1		●							
17	109.137	1308 304 077	000 262 8335	Synchronizer Cone	2		●							
18	119.116	1308 304 070		Synchronizer Ring	2	Old Type	●							
18	119.141	1308 304 096	000 262 9234	Synchronizer Ring	2	New Type	●							
19	157.220	1307 304 608	001 262 0735	Synchronizer Hub	1		●							
20	154.171	1308 304 091	000 262 8123	Sliding Sleeve	1		●							
21	137.264	0735 321 494	018 981 1910	Needle Cage 60x68x41,6	1		●							
22	145.838	1308 304 057	001 262 0011	Gear 1st Speed 34 T	1		●							
23	137.263	0735 321 012	018 981 1810	Needle Cage 67x75x44	1		●							
24	103.137	1308 304 053	000 262 5305	Main Shaft	1		●							
25	137.261	0750 115 427	018 981 1610	Needle Cage 67x75x37	1		●							
26	145.837	1308 304 086	000 262 9911	Gear Low Speed 37 T	1		●							
27	109.136	1308 304 051	000 262 8323	Fixed Hub	1		●							
28	154.364	1308 304 087	000 262 8023	Sliding Sleeve	1		●							
29	137.262	0750 115 533	018 981 1710	Needle Cage 60x68x31,3	1		●							
30	147.237	1308 304 052	000 262 5610	Reverse Gear 33 T	1		●							
31	269.007	0730 106 496	000 262 7278	Washer A=4,00	1		●							
32	130.233	1246 203 008	001 980 9602	Roller Bearing D.44,45x95,25x28	1		●							
33	157.200	1308 304 059	000 262 1009	Sun Gear 30 T	1		●							
34	130.688	0735 370 742		Roller Bearing D.39,6x79,9x29,3	1		●							
35	146.432	1308 303 023	000 263 2715	Constant Gear 37 T	1		●							
36	146.585	1308 303 027	000 263 3613	Gear 3rd Speed 32 T	1		●							
37	143.124	1308 303 021	001 263 0210	Double Gear 1st/2nd Sp.-23/19	1		●							
38	105.189	1308 303 022	000 263 6002	Countershaft 14 T	1		●							
39	130.687	0750 117 198		Roller Bearing D.39,6x76,2x23,8	1		●							

Notes

(1) Special Turkish applications. (BMC, CRYSLER-ASKAM etc..)

Date

07 / 2006

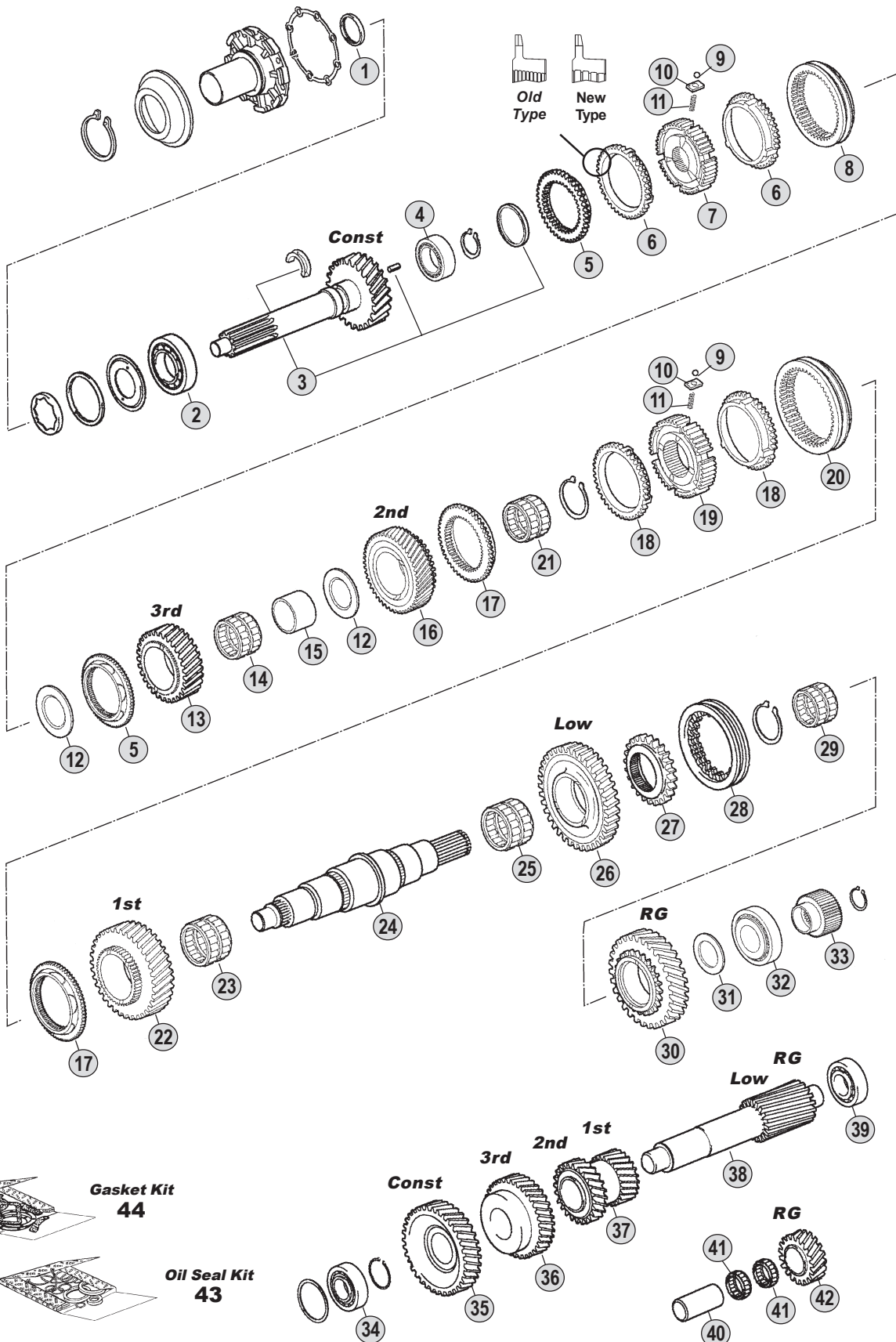
Table

0020 / A

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Suitable To : **ZF**

9S75

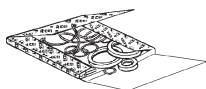


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Kits



Gasket Kit 44



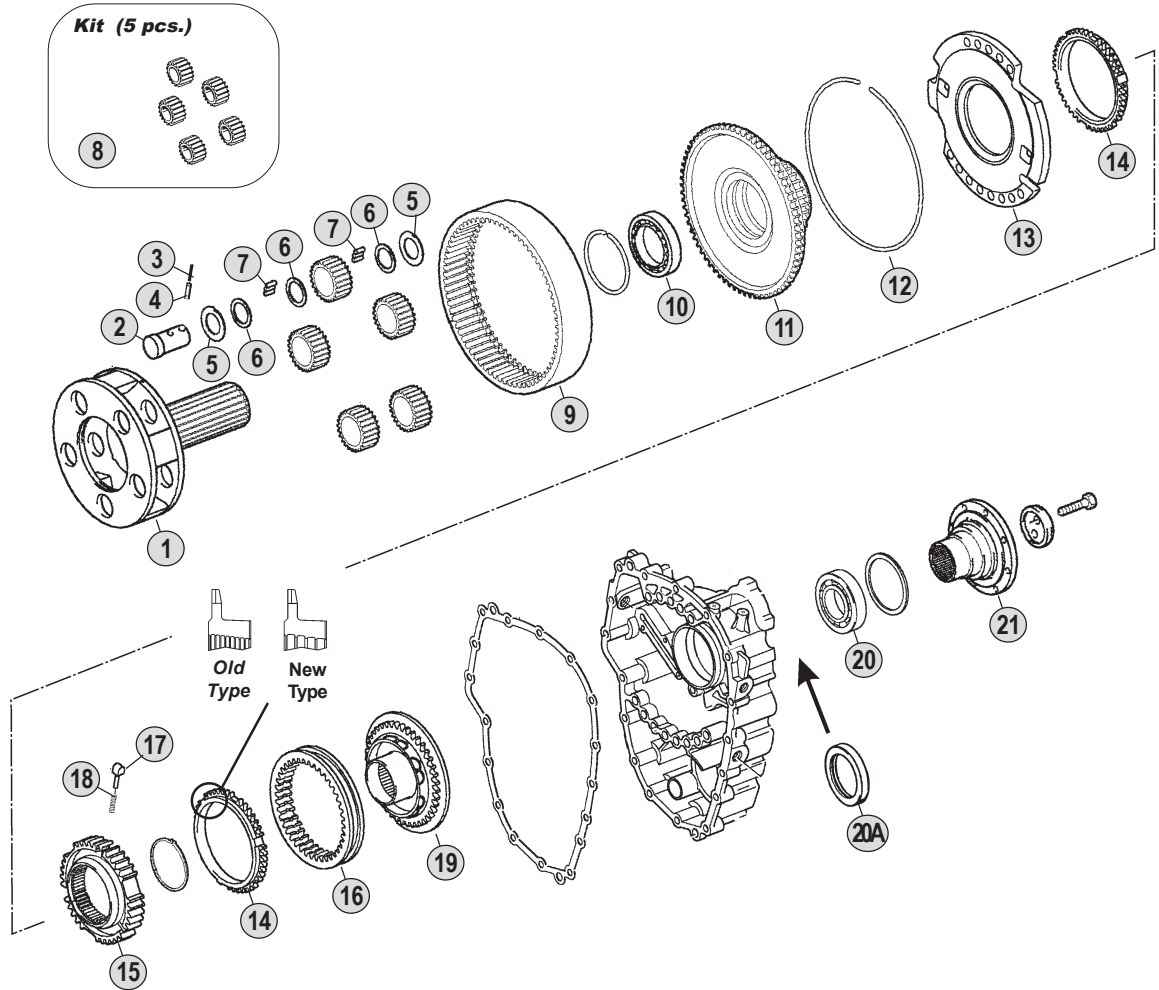
Oil Seal Kit 43

Ratios

9S75 Ratio : 13,16 - 1,00

Suitable To : **ZF**

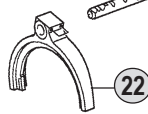
9S75



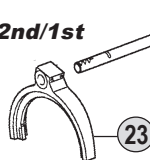
Kits



Const/3rd

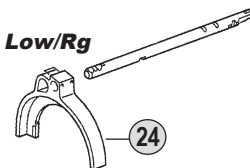


2nd/1st

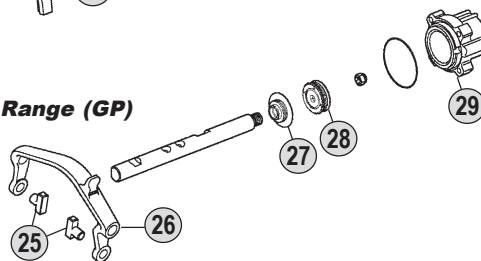


Shifting Forks

Low/Rg



Range (GP)



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Ratios

9S75 Ratio : 13,16 - 1,00

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	9S75 (1/308)						
		ZF no.	MB no.											
1	190.350	1308 232 011	000 260 5661	Planetary Carrier	1		●							
1		1308 232 009	000 260 5061	Planetary Carrier	1	(*)	●							
2	107.138	1308 332 004	000 262 0974	Planet Pin	5		●							
3	160.241	0631 329 175	001481 003031	Lock Pin 3x22	5		●							
4	160.240	0631 329 049	001481 005009	Lock Pin 5x22	5		●							
5	169.396	0730 150 767	002 264 5152	Thrust Washer 1,50	10		●							
6	169.397	0730 103 102	002 264 5252	Spacer Ring 1,50	15		●							
7	171.038	0735 470 155	000 981 4986	Needle D.5x11,80	200		●							
8	198.736	1308 232 007	000 260 2497	Planetary Gear Set	1		●							
9	123.218	1308 332 026	000 262 0108	Crown Gear 75 T	1		●							
10	130.689	0635 338 090	000 981 5320	Ball Bearing D.65x85x10	1		●							
11	150.165	1308 332 034	000 263 0725	Carrier Hub 75 T	1		●							
12		0730 505 149	000 994 2537	Locking Wire	1		●							
13	198.734	1308 233 003	000 262 8735	Synchronizer Cone	1		●							
14	119.118	1268 304 445	000 262 4234	Synchronizer Ring	2	Old Type	●							
14	119.142	1268 304 594	000 262 6734	Synchronizer Ring	2	New Type	●							
15	157.704	1308 332 036	000 262 8935	Synchronizer Hub	1		●							
16	154.172	1308 332 015	000 262 8423	Sliding Sleeve	1		●							
17	160.242	1297 304 437	000 262 0318	Pressure Spring	3		●							
18	156.140	0732 040 409	005 993 6101	Spring D.6,5x23,5	3		●							
19	109.394	1308 232 010	001 262 3135	Synchronizer Cone	1		●							
19	198.735	1308 232 006	000 262 8835	Synchronizer Cone	1	(*)	●							
20		0735 330 597	000 981 6420	Roller bearing D.65x120x23	1		●							
20A		0750 111 334	021 997 1447	Oil seal D.80x100x10	1		●							
21		1308 338 013	000 264 8045	Output Flange	1	D.150-4H.	●							
21		1308 338 026		Output Flange	1	D.175-8H.	●							
21		1308 338 017		Output Flange	1	(*)	●							
22		1308 306 081	000 265 8602	Fork	1		●							
23		1308 306 037	000 265 3901	Fork	1		●							
24		1308 306 067	000 265 7802	Fork	1		●							
25	141.163	1297 306 120	000 268 1149	Slide	2		●							
26		1308 334 001	000 265 6602	Fork	1		●							
27	139.752	0501 316 333		Oil Seal 22x36x14,5	1		●							
28		0734 309 377		Piston	1		●							
29		1308 334 011		Cylinder	1		●							
30	298.025	1308 298 009		Oil Seal Kit	1		●							
31	198.944	1308 298 001		Gasket Kit	1		●							

Notes

(*) Old Version To be coupled together with items with note (*). DO NO MIX

Date

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Table

0020 / B

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Suitable to: **M.A.N.**

Gearboxes Index

EcoLite

Bus Applications

S6-85
6S-1600

EcoMid

Bus Applications

6S150C
8S180

EcoMid

Truck Applications

9S109
16S109

M.A.N.
INDEX

suitable to :

Z.F.

EcoLite

S6-85

ECOLITE
S6-85

Application

	S6-85	6S-1600				
	(1310)	(1310)				
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

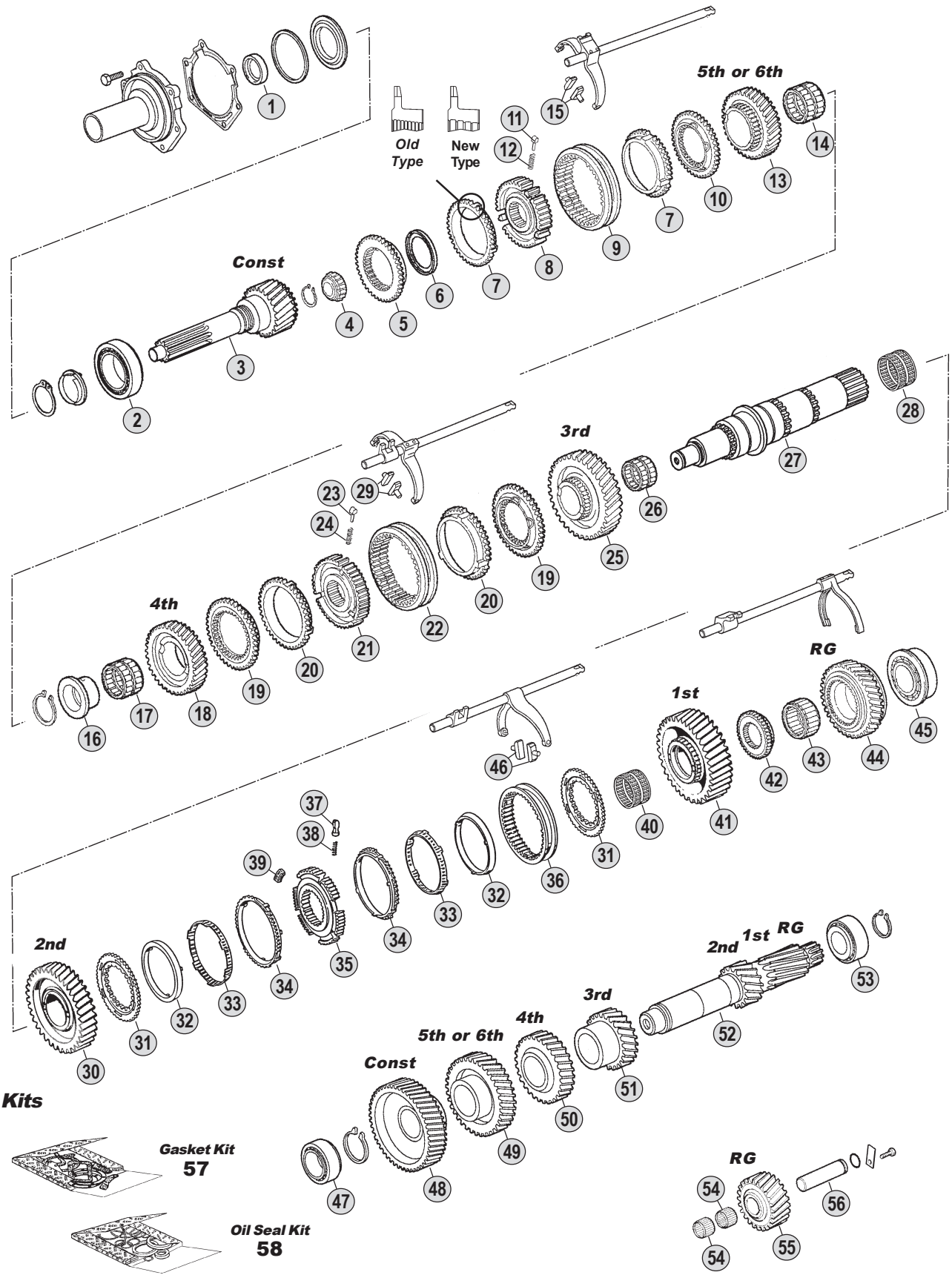
Ratios

Ratio	Note
6,75-0,83	A
7,72-1,00	B

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Suitable To : **ZF**

S6-85



Ratios

S6-85 A : 6,75 - 0,83 B : 7,72 - 1,00

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S6-85 (1310)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	M.A.N. no.					S6-85	(1310)					
1	139.753	0750 111 149	81 96502 0934	Oil Seal D.48x65x10	1			●						
2	130.704	0750 117 347	81 93420 0261	Bearing D.70x115x29	1			●						
3	102.387	1310 302 001	81 32205 0237	Input Shaft	1		A	●						
3	102.388	1310 302 025		Input Shaft	1		A	●						
3	102.389	1310 302 032		Input Shaft	1		A	●						
3	102.390	1310 302 026		Input Shaft	1		B	●						
3	102.391	1310 302 022		Input Shaft	1		B	●						
3	102.392	1310 302 021		Input Shaft	1		B	●						
3	102.393	1310 302 033		Input Shaft	1		B	●						
4		0750 117 562	81 93501 0093	Bearing D.28x32	1			●						
5	109.400	1310 302 023	81 32425 0124	Synchronizer Cone	1		A	●						
5	109.401	1310 302 024		Synchronizer Cone	1		B	●						
6	269.011	0501 313 171	81 32313 0244	Oil Seal	1			●						
7	119.219	1311 304 076	81 32420 0175	Synchronizer Ring	2	Old Type		●						
7	119.220	1311 304 255	81 32420 0231	Synchronizer Ring	2	New Type		●						
8	157.706	1311 304 226	81 32420 0191	Synchronizer Hub	1			●						
9	154.363	1304 304 664	81 32402 0166	Sliding Sleeve	1			●						
10	109.402	1311 304 009	81 32425 0108	Synchronizer Cone	1			●						
11	160.189	1297 304 436	81 32510 0013	Pressure Piece	3			●						
12	156.140	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3			●						
13	145.886	1310 304 091	81 32301 0896	Gear 6th Speed 23 T	1		A	●						
13	145.887	1310 304 092		Gear 5th Speed 26 T	1		B	●						
14	137.269	0735 321 543	81 93402 0123	Needle Cage D.52x60x23	1			●						
15	141.194	1290 306 066	81 32526 0027	Bronze Slide	2			●						
16	117.384	1311 304 124	81 93001 0346	Bush	1			●						
17	137.078	0735 320 493	81 93402 0032	Needle Bearing D.70x78x36,50	1			●						
18	145.888	1310 304 088	81 32301 0895	Gear 4th Speed 29 T	1		A	●						
18	145.889	1310 304 093		Gear 4th Speed 30 T	1		B	●						
19	109.134	1312 304 027	81 32425 0092	Synchronizer Cone	2			●						
20	119.119	1297 304 402	81 32420 0146	Synchronizer Ring	2	Old Type		●						
20	119.167	1297 304 484	81 32420 0230	Synchronizer Ring	2	New Type		●						
21	157.707	1310 304 080	81 32420 0226	Synchronizer Hub	1			●						
22	154.135	1310 304 202	81 32402 0197	Sliding Sleeve	1			●						
23	160.189	1297 304 436	81 32510 0013	Pressure Piece	3			●						
24	156.140	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3			●						
25	145.890	1310 304 085	81 32301 0894	Gear 3rd Speed 35 T	1		A	●						
25	145.891	1310 304 124		Gear 3rd Speed 37 T	1		B	●						
26	137.270	0735 321 106	81 93402 0124	Needle Cage D.80x88x48	1			●						
27	103.195	1311 304 248	81 32202 0102	Main Shaft	1			●						
28	137.270	0735 321 106	81 93402 0124	Needle Cage D.80x88x48	1			●						
29	141.194	1290 306 066	81 32526 0027	Bronze Slide	2			●						
30	145.892	1310 304 012	81 32301 0892	Gear 2nd Speed 43 T	1			●						
31	109.176	1312 304 106	81 32425 0103	Synchronizer Cone	2			●						
32	119.152	1268 304 424	81 32420 0163	Intermediate Ring	2			●						
33	119.153	1268 304 494	81 30120 0051	Intermediate Cone	2			●						

ECOLITE
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Notes

Date

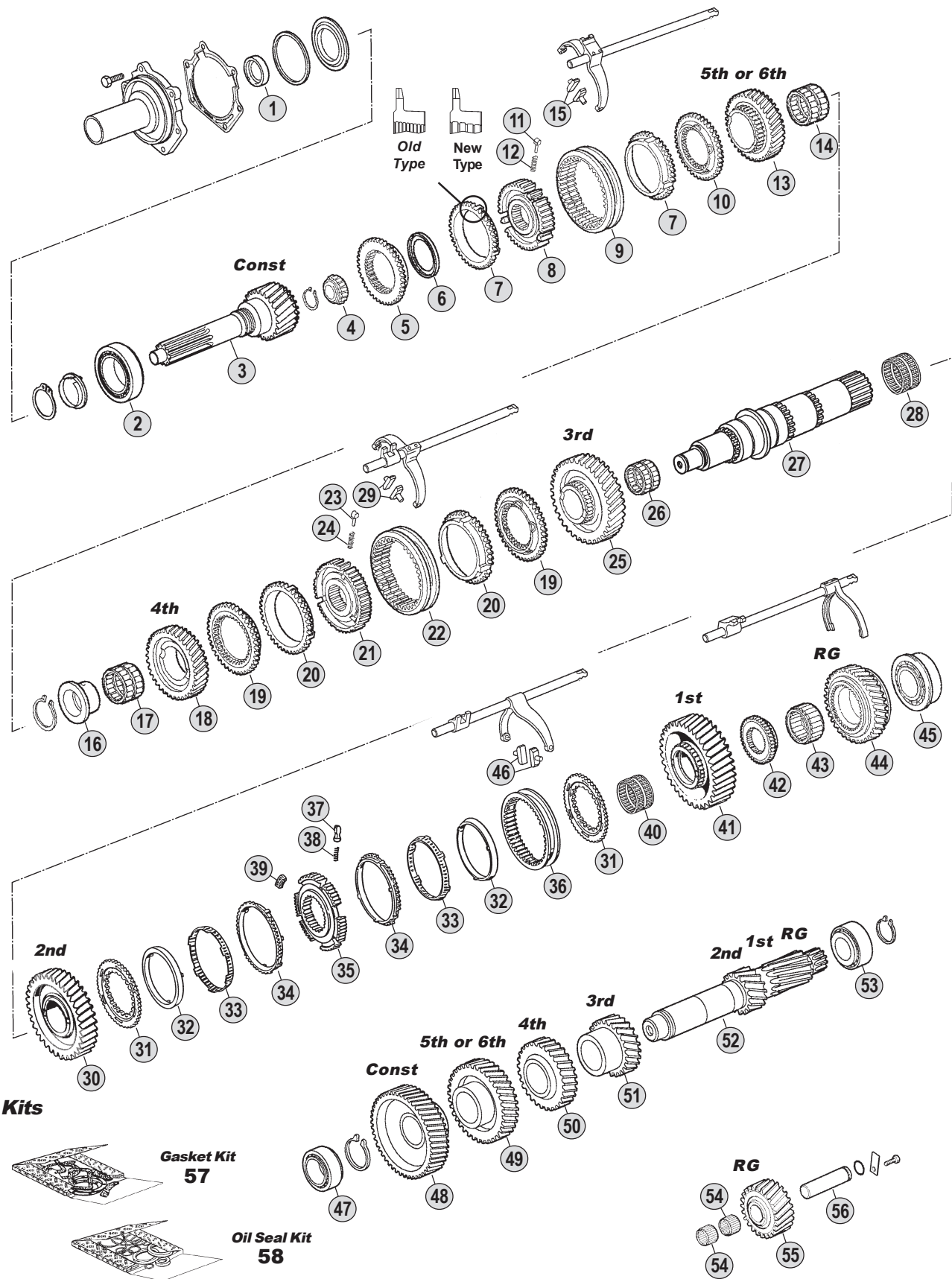
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Table

0030

Suitable To : **ZF**

S6-85



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Ratios

S6-85 A : 6,75 - 0,83 B : 7,72 - 1,00



Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	M.A.N. no.										
34	119.144	1268 304 525	81 32420 0161	Synchronizer Ring	2			●					
35	157.708	1310 304 157	81 32420 0225	Synchronizer Hub	1			●					
36	154.190	1310 304 175	81 32402 0191	Sliding Sleeve	1			●					
37	160.189	1297 304 436	81 32510 0013	Pressure Piece	3			●					
38	156.140	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3			●					
39	156.176	1312 304 159	81 38108 0005	Pad	3			●					
40	137.271	0735 321 108	81 93402 0125	Needle Cage D.75x83x50	1			●					
41	145.893	1310 304 011	81 32301 0891	Gear 1st Speed 50 T	1			●					
42	157.709	1311 304 250	81 32425 0130	Synchronizer Hub	1			●					
43	137.272	0735 298 255	81 93402 0148	Needle Cage D.70x86x42,5	1			●					
44	147.238	1310 304 200	81 32302 0045	Reverse Gear	1			●					
45	130.705	0735 370 730	81 93420 0262	Bearing D.60x120x29,7	1			●					
46	141.194	1290 306 066	81 32526 0027	Bronze Slide	2			●					
47	130.234	0750 117 083	81 93420 6029	Bearing D.50,8x95,2x27,7	1			●					
48	146.600	1310 303 032	81 32301 0888	Constant Gear 47 T	1		A	●					
48	146.605	1310 303 044		Constant Gear 50 T	1		B	●					
49	146.609	1310 303 033	81 32301 0889	Gear 6th Speed 45 T	1		A	●					
49	146.610	1310 303 045		Gear 5th Speed 37 T	1		B	●					
50	146.611	1310 303 051	81 32301 0890	Gear 4th Speed 32 T	1		A	●					
50	146.612	1310 303 050		Gear 4th Speed 29 T	1		B	●					
51	146.613	1310 303 031	81 32301 0887	Gear 3rd Speed 24 T	1		A	●					
51	146.614	1310 303 052		Gear 3rd Speed 24 T	1		B	●					
52	105.191	1310 303 076		Countershaft	1			●					
53	130.233	1246 203 008	81 93420 6030	Roller Bearing D.44,45x95,25x28	1			●					
54	137.273	0750 115 233	81 93402 0121	Needle Cage D.30x38x30	2			●					
55	147.239	1310 305 003	81 32301 0886	Reverse Gear 21 T	1			●					
56	107.201	1310 305 001	81 91001 0599	Reverse Pin	1			●					
57	298.039	1310 298 002	81 32900 6056	Gasket Kit	1			●					
58	298.040	1310 298 003	81 32900 6057	Oil Seals Kit	1			●					

ECOLITE
S6-85

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Notes

Date

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Table

0030

suitable to :

Z.F.

EcoLite

6S-1600

ECOLITE
6S-1600

Application

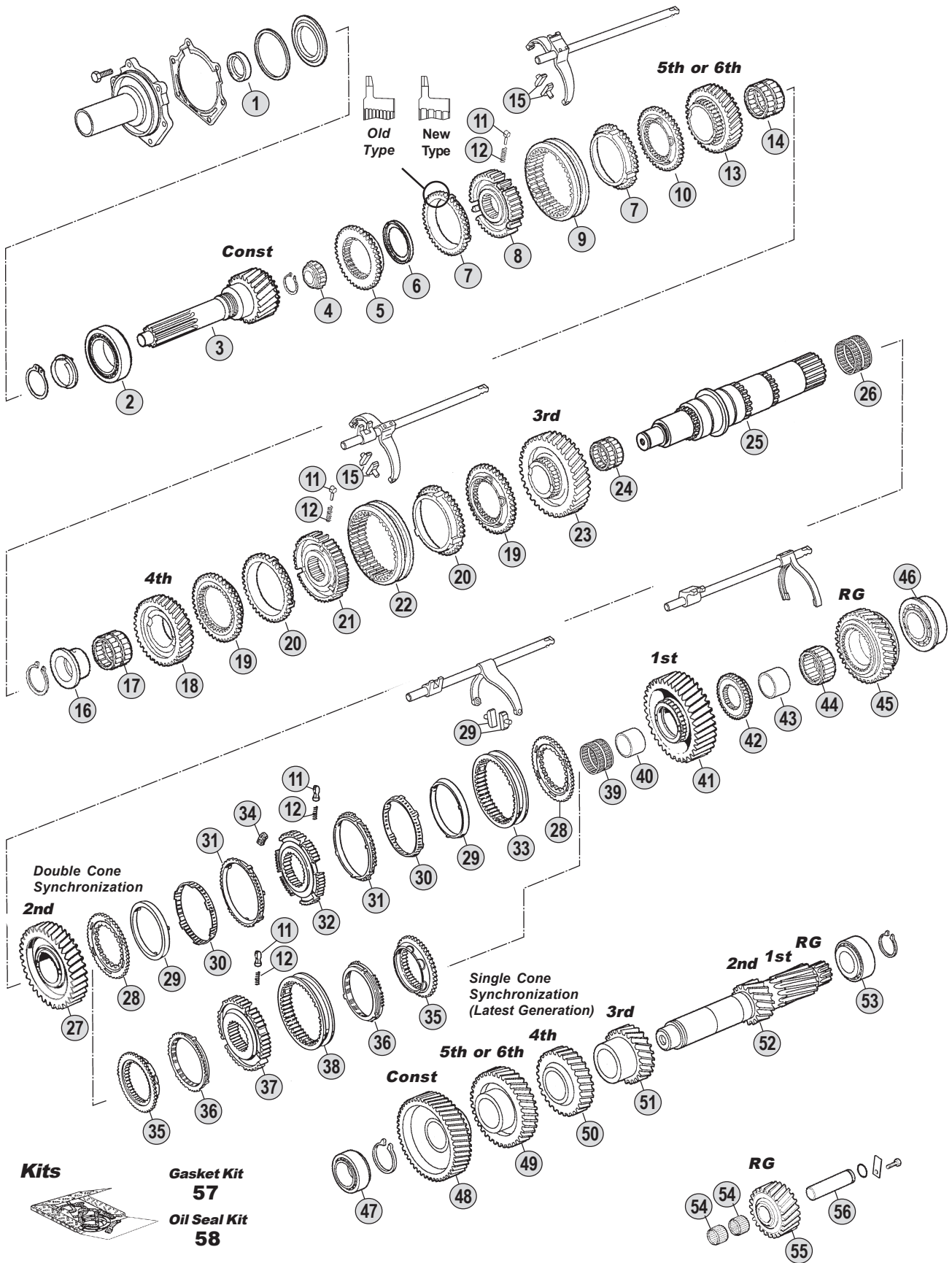
	6S-85 (1310)	6S-1600 (1310)				
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

Ratio	Note
6,32-0,81	A
7,72-1,00	B

Suitable To : **ZF**

6S-1600



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Ratios

S6-1600 A : 6,32 - 0,81 B : 7,72 - 1,00

6S-1600 (1310)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	M.A.N. no.					6S-1600 (1310)						
1	139.754	0734 310 386	81 96503 0342	Oil Seal D.55x75x8	1		●							
2	130.706	0750 117 518	81 93420 0272	Roller Bearing D.71,4x120x32,5	1		●							
3	102.394	1310 302 094		Input Shaft 31 T	1		●	A						
3	102.395	1310 302 097		Input Shaft 31 T	1		●	A						
3	102.396	1310 302 089		Input Shaft 31 T	1		●	A						
3	102.397	1310 302 088		Input Shaft 27 T	1		●	B						
3	102.398	1310 302 090		Input Shaft 27 T	1		●	B						
3	102.399	1310 302 096		Input Shaft 27 T	1		●	B						
3	102.400	1310 302 092		Input Shaft 27 T	1		●	B						
3	102.401	1310 302 082		Input Shaft 27 T	1		●	B						
4	137.150	0750 117 232	81 93501 0080	Roller Cage D.42x81x40,30	1		●							
5	109.403	1310 302 045	81 32425 0137	Synchronizer Cone	1		●							
6		0501 315 236	81 32313 0312	Ring	1		●							
7	119.118	1268 304 445	81 32420 0173	Synchronizer Ring	2	Old Type	●							
7	119.142	1268 304 594	82 32420 0012	Synchronizer Ring	2	New Type	●							
8	157.710	1310 304 158	81 32420 0232	Synchronizer Hub	1		●							
9	154.371	1310 304 195	81 32402 0192	Sliding Sleeve	1		●							
10	109.404	1310 304 161	81 32425 0138	Synchronizer Cone	1		●							
11	160.189	1297 304 436	81 32510 0013	Pressure Piece	3		●							
12	156.140	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●							
13	145.894	1310 304 138	81 32302 0009	Gear 6th Speed 23 T	1		●	A						
13	145.895	1310 304 137		Gear 5th Speed 27 T	1		●	B						
14	137.274	0735 321 396	81 93402 0145	Needle Cage D.65x73x48	1		●							
15	141.194	1290 306 066	81 32526 0027	Bronze Slide	2		●							
16		0730 162 753	81 93001 0396	Bush	1		●							
17	137.275	0735 321 392	81 93402 0144	Needle Cage D.85x93x44	1		●							
18	145.896	1310 304 178	81 32302 0011	Gear 4th Speed 28 T	1		●	A						
18	145.897	1310 304 177		Gear 4th Speed 28 T	1		●	B						
19	109.134	1312 304 027	81 32425 0092	Synchronizer Cone	2		●							
20	119.119	1297 304 402	81 32420 0146	Synchronizer Ring	2	Old Type	●							
20	119.167	1297 304 484	81 32420 0230	Synchronizer Ring	2	New Type	●							
21	157.180	1312 304 052	81 32420 0151	Synchronizer Hub	1		●							
22	154.135	1310 304 202	81 32402 0197	Sliding Sleeve	1		●							
23	145.898	1310 304 186	81 32302 0013	Gear 3rd Speed 34 T	1		●	A						
23	145.899	1310 304 185		Gear 3rd Speed	1		●	B						
24	137.276	0735 321 432	81 93402 0142	Needle Cage D.92x100x49,5	1		●							
25	103.196	1310 304 189	81 32202 0093	Main Shaft	1		●							
26	137.276	0735 321 432	81 93402 0142	Needle Cage D.92x100x49,5	1		●							
27	145.900	1310 304 196	81 32302 0014	Gear 2nd Speed 43 T	1		●							
28	109.176	1312 304 106	81 32425 0103	Synchronizer Cone	2		●							
29	119.152	1268 304 424	81 32420 0163	Intermediate Ring	2		●							
30	119.153	1268 304 494	81 30120 0051	Intermediate Cone	2		●							
31	119.144	1268 304 525	81 32420 0161	Synchronizer Ring	2		●							
32	157.181	1312 304 158	81 32420 0181	Synchronizer Hub	1		●							
33	154.190	1310 304 175	81 32402 0191	Sliding Sleeve	1		●							

Notes

(*) Latest Models only. Do NO MIX Single Cone Synchron. with Double Cone Synchron.

Date

07 / 2006

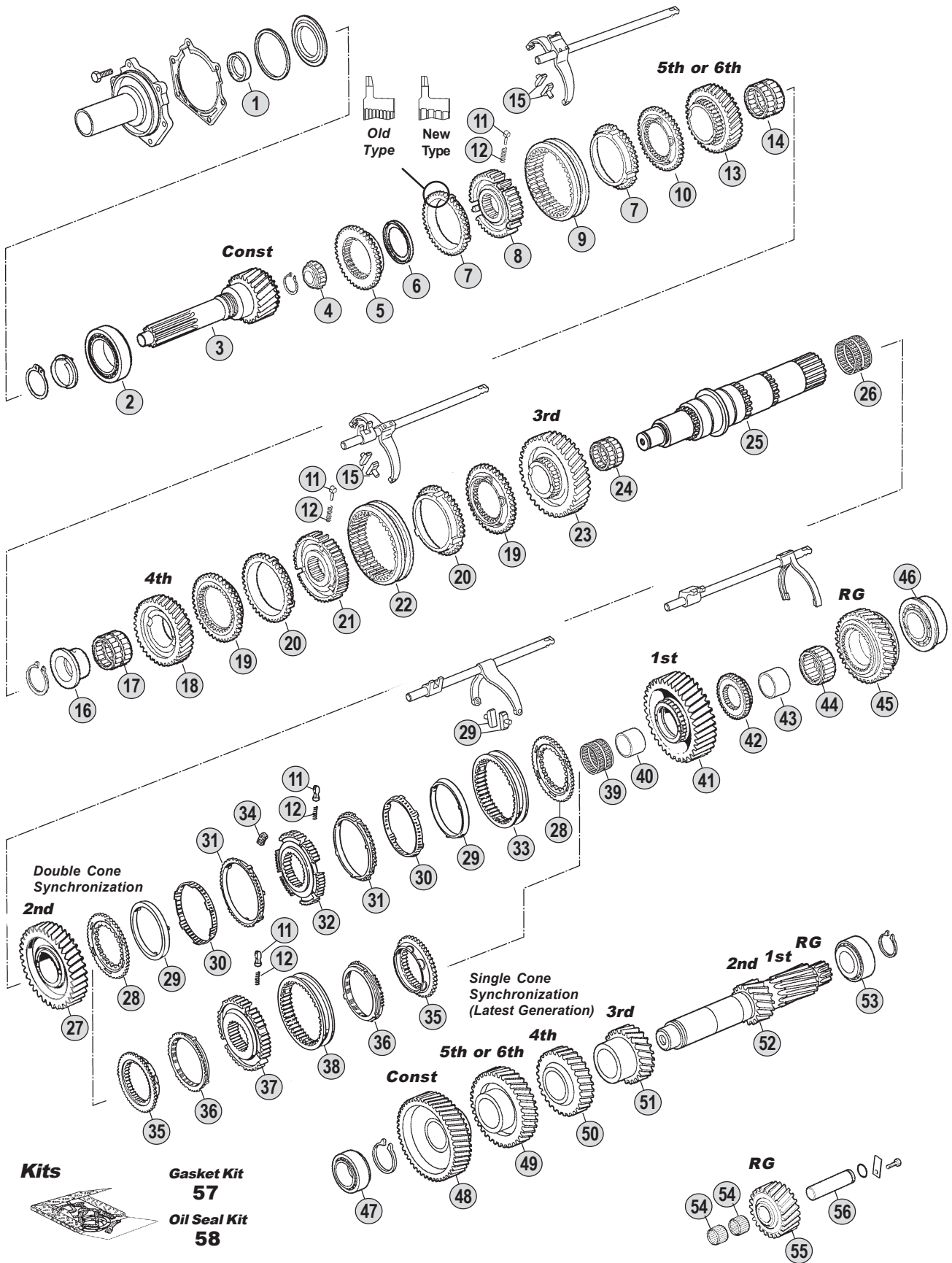
Table

0040

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Suitable To : **ZF**

6S-1600



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Ratios

S6-1600 A : 6,32 - 0,81 B : 7,72 - 1,00



6S-1600 (1310)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	M.A.N. no.											
34	156.176	1312 304 159	81 38108 0005	Pad	3			●						
35	109.132	1313 304 009	81 32425 0094	Synchronizer Cone	2		(*)	●						
36	119.122	1297 304 401	81 32420 0148	Synchronizer Ring	2	Old Type	(*)	●						
36	119.166	1297 304 485	81 32420 0241	Synchronizer Ring	2	New Type	(*)	●						
37	157.189	1313 304 008	81 32420 0149	Synchronizer Hub	1		(*)	●						
38	154.202	1316 304 078	81 32402 0189	Sliding Sleeve	1		(*)	●						
39	137.276	0735 321 432	81 93402 0142	Needle Cage D.92x100x49,5	1			●						
40		0735 295 148		Bush	1			●						
41	145.901	1310 304 182	81 32302 0012	Gear 1st Speed 50 T	1			●						
42	157.711	1310 304 188	81 32425 0139	Hub	1			●						
43		0750 119 131	81 93021 0360	Bush	1			●						
44	137.277	0735 321 394	81 93402 0143	Needle Cage D.82x90x47	1			●						
45	147.240	1310 304 201	81 32302 0083	Reverse Gear	1			●						
46	130.706	0750 117 518	81 93420 0272	Roller Bearing D.71,4x120x32,5	1			●						
47	130.234	0750 117 083	81 93420 6029	Bearing D.50,8x95,2x27,7	1			●						
48	146.615	1310 303 069	81 32302 0007	Constant Gear 47 T	1		A	●						
48	146.616	1310 303 068		Constant Gear 50 T	1		B	●						
49	146.617	1310 303 059	81 32302 0005	Gear 6th Speed 43 T	1		A	●						
49	146.618	1310 303 074		Gear 5th Speed 39 T	1		B	●						
50	146.619	1310 303 062	81 32302 0006	Gear 4th Speed 32 T	1		A	●						
50	146.620	1310 303 075		Gear 4th Speed 29 T	1		B	●						
51	146.621	1310 303 072	81 32302 0008	Gear 3rd Speed	1		A	●						
51	146.622	1310 303 073		Gear 3rd Speed	1		B	●						
52	105.192	1310 303 053	81 32206 0123	Countershaft	1			●						
53	130.233	1246 203 008	81 93420 6030	Roller Bearing D.44,45x95,25x28	1			●						
54	137.273	0750 115 233	81 93402 0121	Needle Cage D.30x38x30	2			●						
55	147.241	1310 305 011	81 32302 0084	Reverse Gear	1			●						
56	107.201	1310 305 001	81 91001 0599	Reverse Pin	1			●						
57	298.041	1310 298 018	81 32900 6061	Gasket Kit	1			●						
58	298.042	1310 298 020	81 32900 6062	Oil Seals Kit	1			●						

ECOLITE
6S-1600

Notes

(*) Latest Models only. Do NO MIX Single Cone Synchron. with Double Cone Synchron.

Date

07 / 2006

Table

0040

suitable to :

Z.F.

EcoMid

6S150C

ECOMID
 6S150C

Application

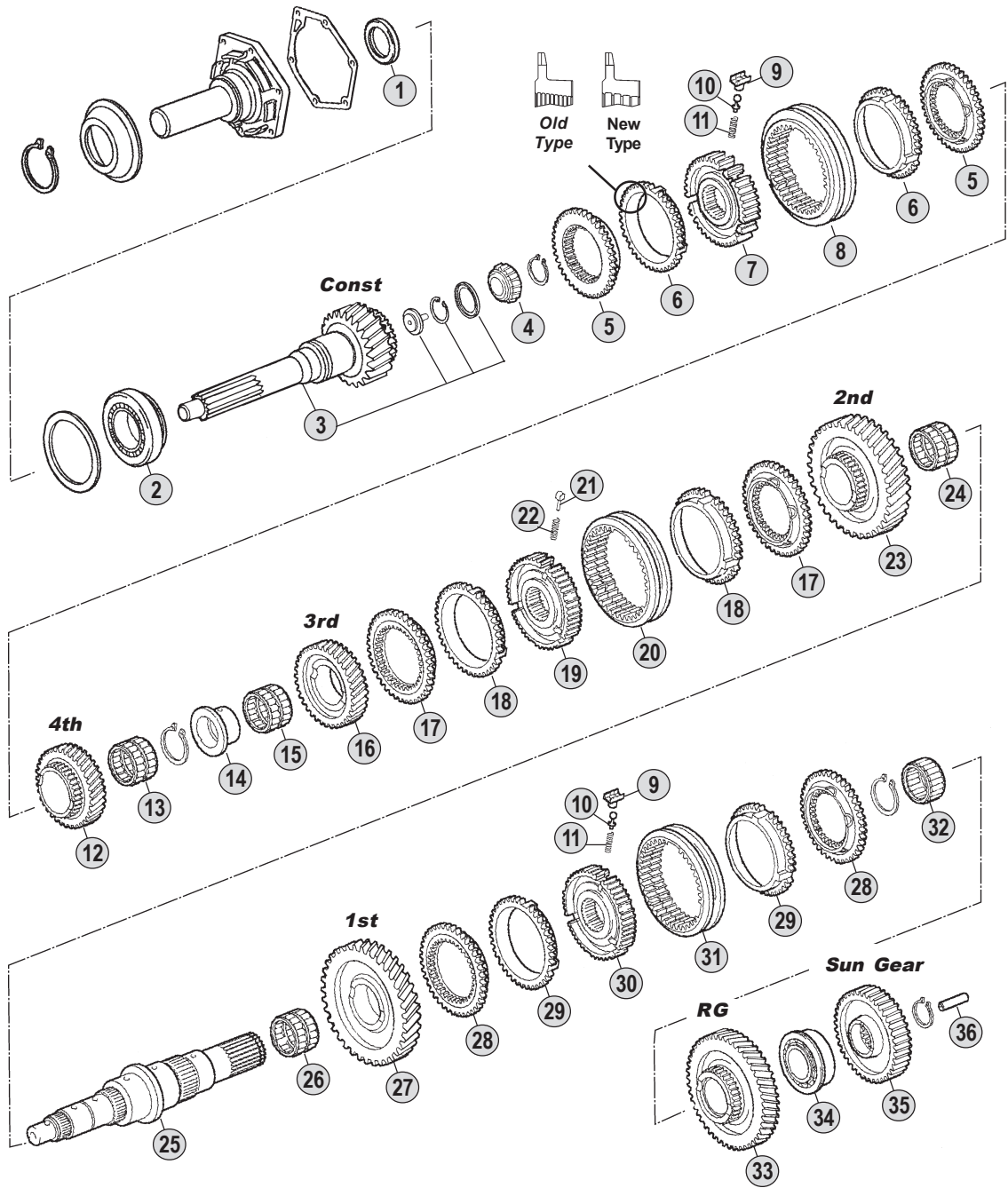
	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

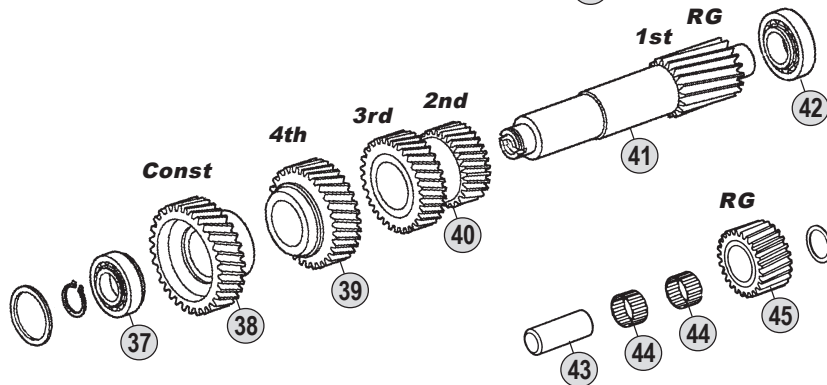
Ratio	Note
7,02-0,81	A
8,07-1,00	B
8,65-1,00	C
8,66-1,00	D

Suitable To : **ZF**

6S150C



Kits



Ratios

6S150C A : 7,02 - 0,81 B : 8,07 - 1,00 C : 8,65 - 1,00 D : 8,66 - 1,00

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6S150C (13004)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					M.A.N. no.	6S150C	(13004)					
1		0734 310 230	89 20022 1942	Oil seal D.55x72x10	1	(1)	●							
1	139.753	0750 111 149	81 96502 0934	Oil Seal D.48x65x10	1	(2)	●							
2		0735 370 462		Roller bearing D.73x117,4x30,1	1	(1)	●							
2	130.313	0750 117 079	81 93420 0203	Bearing D.66,6x117,4x30,1	1	(2)	●							
3		1304 202 186		Input Shaft 28 T	1	(1)	A	●						
3		1304 202 188		Input Shaft 28 T	1	(2)	A	●						
3	102.345	1304 202 190	81 32205 0238	Input Shaft 28 T	1	(2)	A	●						
3	102.344	1304 202 193		Input Shaft	1	(2)	B	●						
3		1304 202 182		Input Shaft 25 T	1	(1)	CD	●						
3		1304 202 247		Input Shaft 25 T	1	(1)	CD	●						
3		1304 202 184		Input Shaft 25 T	1	(2)	CD	●						
3	102.346	1304 202 185		Input Shaft 25 T	1	(2)	CD	●						
4	130.683	0735 371 748	81 93501 0098	Needle Bearing D.32x29,5	1		●							
5	109.391	1304 304 660	81 32425 0089	Synchronizer Cone	2		●							
6	119.150	1304 304 014	81 32420 0137	Synchronizer Ring	2	Old Type	●							
6	119.169	1304 304 683	81 32420 0235	Synchronizer Ring	2	New Type	●							
7	157.697	1304 304 051	81 32420 0138	Synchronizer Hub	1		●							
8	154.361	6002 305 515	81 32402 0136	Sliding Sleeve	1		●							
9	188.096	1238 304 394	81 32510 0007	Pressure Piece	3		●							
10	160.143	1249 304 222	81 32523 0081	Plunger	3		●							
11	156.140	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●							
12	145.821	1304 304 479	81 32301 0774	Gear 4th Speed 25 T	1		A	●						
12	145.819	1304 304 480		Gear 4th Speed	1		B	●						
12	145.822	1304 304 478		Gear 4th Speed 28 T	1		CD	●						
13	137.258	0735 321 011	81 93404 0043	Needle Cage 60x68x23	1		●							
14	117.377	1304 304 050	81 93001 0314	Bush	1		●							
15	137.074	0750 115 227	81 93404 0042	Needle Bearing D.75x83x40	1		●							
16	145.820	1304 304 461	81 32301 0660	Gear 3rd Speed 31 T	1		ACD	●						
16	145.818	1304 304 463		Gear 3rd Speed 29 T	1		B	●						
17	109.171	1304 304 408	81 32425 0088	Synchronizer Cone	2		●							
18	119.151	1304 304 542	81 32420 0156	Synchronizer Ring	2	Old Type	●							
18	119.170	1304 304 681	82 32420 0013	Synchronizer Ring	2	New Type	●							
19	157.696	1304 304 591	81 32420 0207	Synchronizer Hub	1		●							
20	154.200	1304 304 597	81 32402 0147	Sliding Sleeve 1st-2nd Speed	1		●							
21	160.189	1297 304 436	81 32510 0013	Pressure Piece	3		●							
22	156.140	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●							
23	147.222	1304 304 486	81 32301 0773	Gear 2nd Speed	1		AC	●						
23	147.220	1304 304 464		Gear 2nd Speed 33 T	1		B	●						
23	147.224	1304 304 462	81 32301 0658	Gear 2nd Speed 34 T	1		D	●						
24	137.142	0735 320 816	81 93404 0045	Needle Cage D.75x83x23	1		●							
25	103.190	1304 304 449	81 32202 0053	Main Shaft	1		●							
26	137.257	0735 320 500	81 93402 0093	Needle Cage D.75x83x35	1		●							
27	145.817	1304 304 430	81 32301 0657	Gear 1st Speed 37 T	1		●							
28	109.390	1304 304 445	81 32425 0086	Synchronizer Cone	2		●							
29	119.072	1238 304 420	81 32420 0061	Synchronizer Ring	2	Old Type	●							

ECOMID
6S150C

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Notes

- (1) To be coupled together. **DO NO MIX**
 (2) To be coupled together. **DO NO MIX**

Date

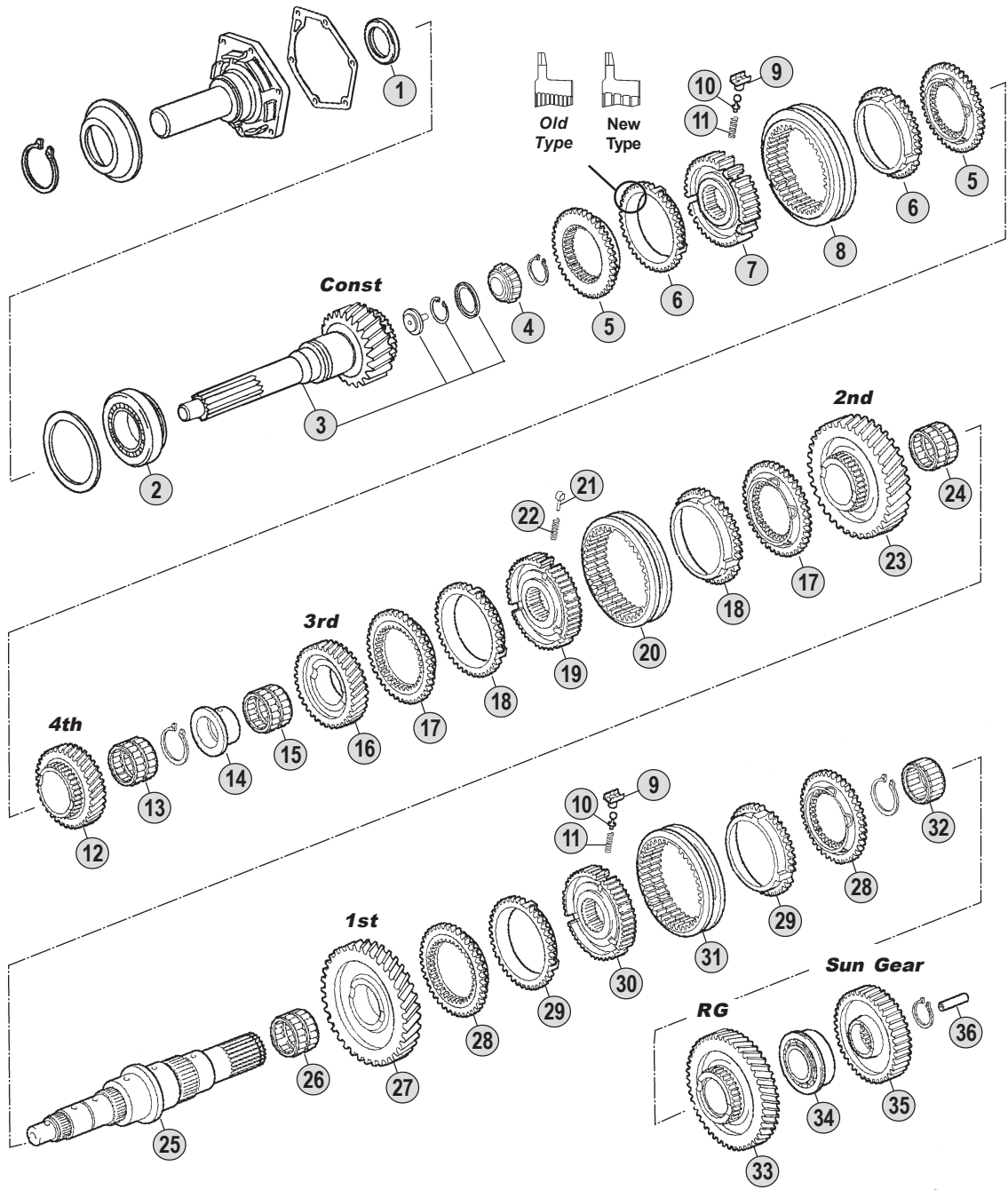
07 / 2006

Table

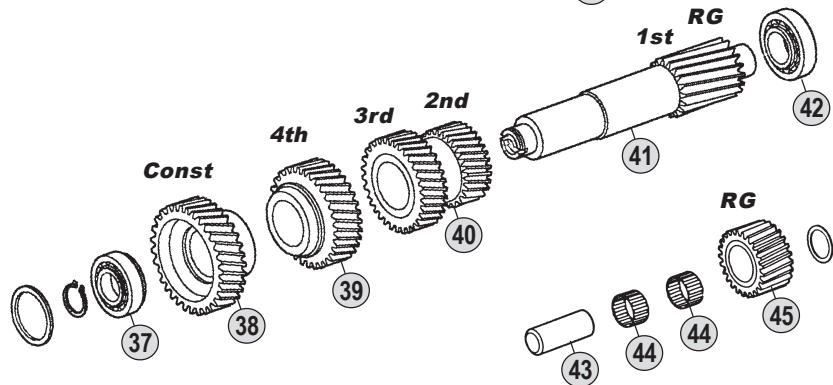
0050 / A

Suitable To : **ZF**

6S150C



Kits



Ratios

6S150C A : 7,02 - 0,81 B : 8,07 - 1,00 C : 8,65 - 1,00 D : 8,66 - 1,00

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio	6S150C (13004)				
	CEI no.	ZF no.					M.A.N. no.				
29	119.138	1290 304 473	81 32420 0240	Synchronizer Ring	2	New Type	●				
30	157.694	1304 304 655	81 32420 0247	Synchronizer Hub	1		●				
31	154.360	1304 304 394	81 32402 0134	Sliding Sleeve	1		●				
32	137.147	0750 115 225	81 93404 0044	Needle Cage D.60x68x39	1		●				
33	147.219	1304 304 446	81 32301 0655	Reverse Gear 32 T	1		●				
34	130.315	0735 371 605	81 93420 0313	Bearing D.50,8x104,7x30,1	1		●				
35	157.695	1304 304 452	81 32301 0656	Sun Gear 79 T	1		●				
36	188.209	1312 304 150	81 32562 0146	Oil Tube	1		●				
37	130.314	0735 371 749	81 93420 0335	Bearing D.40x80x32	1		●				
38	146.582	1304 303 218	81 32301 0775	Constant Gear 30 T	1		●	A			
38	146.581	1304 303 219		Constant Gear	1		●	B			
38	146.583	1304 303 217		Constant Gear 33 T	1		●	CD			
39	147.223	1304 303 224	81 32301 0776	Gear 4th Speed 33 T	1		●	A			
39	147.221	1304 303 225		Gear 4th Speed	1		●	B			
39	147.225	1304 303 223		Gear 4th Speed 30 T	1		●	CD			
40	143.117	1304 303 230	81 32303 0033	Double Gear 3rd/2nd Speed	1		●	AC			
40	143.116	1304 303 207		Double Gear 3rd/2nd Speed	1		●	B			
40	143.118	1304 303 206		Double Gear 3rd/2nd Speed	1		●	D			
41	105.183	1304 303 119	81 32206 0064	Countershaft 14 T	1		●				
42	130.234	0750 117 083	81 93420 6029	Bearing D.50,8x95,2x27,7	1		●				
43	107.156	1304 305 030	81 91001 0549	Reverse Shaft	1		●				
44	137.143	0735 358 192	81 93404 0047	Needle Cage D.40x60x26	2		●				
45		1304 305 024	81 32315 0043	Reverse Gear 22 T	1		●				
46	298.026	1304 298 908	81 32900 6019	Oil Seal Kit	1		●				
47	198.945	1304 298 914	81 32900 6018	Gasket Kit	1		●				

ECOMID
6S150C

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Notes

- (1) To be coupled together. **DO NO MIX**
(2) To be coupled together. **DO NO MIX**

Date

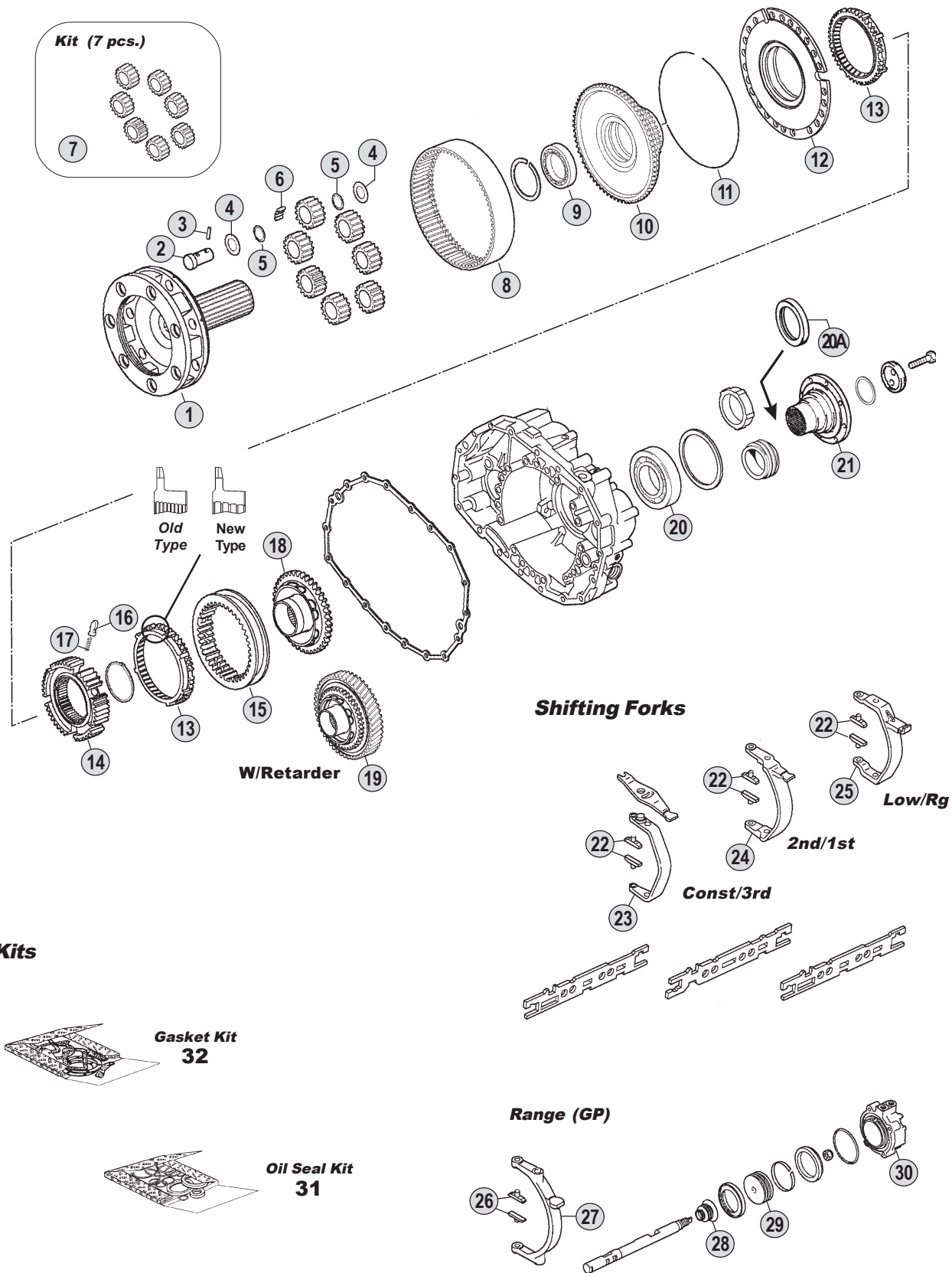
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Table

0050 / A

Suitable To : **ZF**

6S150C



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Ratios

6S150C A : 7,02 - 0,81 B : 8,07 - 1,00 C : 8,65 - 1,00 D : 8,66 - 1,00



6S150C (13004)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	M.A.N. no.					6S150C	(13004)			
1	190.386	1304 232 028	81 37501 0014	Planetary Carrier	1		●					
2	107.203	1304 332 070	81 32523 0145	Planet Pin	7		●					
3	160.238	0631 329 127		Lock Pin 4x16	7		●					
4	269.005	0501 309 496	81 32312 0941	Thrust Washer	14		●					
5	269.004	0730 105 881	81 32312 0940	Spacer Ring 1,50	14		●					
6	171.061	0735 470 016	81 93403 0019	Needle D.4x21,8	126		●					
7	298.016	1304 232 029	81 37505 6005	Planetary Gear Set	1		●					
8	123.264	1304 332 072	81 32301 0661	Crown Gear 117 T	1		●					
9	130.265	0735 340 080	81 93410 0078	Bearing D.70x90x10	1		●					
10	150.163	1304 332 071	81 37511 0003	Carrier Hub	1		●					
11	111.175	0730 505 053	81 90820 0308	Locking Wire 2,50	1		●					
12	198.817	1304 233 005	81 32425 0090	Synchronizer Cone	1		●					
13	119.157	1304 333 005	81 32420 0140	Synchronizer Ring	2	Old Type	●					
13	119.171	1304 333 021		Synchronizer Ring	2	New Type	●					
14	157.205	1304 332 066	81 32420 0139	Synchronizer Hub	1		●					
15	154.210	1304 332 089	81 32402 0137	Sliding Sleeve	1		●					
16	160.116	1240 304 278	81 32510 0005	Pressure Piece	6		●					
17	156.037	0732 040 385	81 97601 0757	Outer Spring De.6x34	6		●					
18	109.183	1304 332 075	81 32425 0091	Synchronizer Cone	1		●					
19	109.397	1304 313 133		Synchronizer Cone	1	with retarder	●					
20	130.690	0750 116 048	81 93410 0077	Roller Bearing D.78x130x25	1		●					
20A		0734 319 439	81 96502 0935	Oil seal D.95x115x10	1		●					
21		1304 338 066	81 39115 0332	Output Flange	1	D.150-4H.	●					
21		1304 338 019	81 39115 0228	Output Flange	1	D.165-8H.	●					
21		1304 338 035		Output Flange	1	D.180-8H.	●					
21		1304 338 047		Output Flange	1	D.180-10H.	●					
21		1304 343 053	81 39115 0349	Output Flange	1	with TELMA ret.	●					
21		1304 343 060		Output Flange	1	with TELMA ret.	●					
22	141.194	1290 306 066	81 32526 0027	Bronze Slide	2		●					
23		1304 306 010	81 32515 0085	Fork	1		●					
23		1304 306 044		Fork	1		●					
23		1304 306 096	81 32515 0090	Fork	1		●					
24		1304 306 009	81 32515 0083	Fork	1		●					
24		1304 306 043	81 32515 0079	Fork	1		●					
25		1304 306 065	81 32515 0080	Fork	1		●					
26	141.061	1272 334 003	81 32526 0019	Bronze Slide	2		●					
27		1304 334 039	81 32516 0118	Fork	1		●					
28		0750 112 047	81 32540 0031	Oil seal	1		●					
29		1304 334 072	81 32639 0053	Piston	1		●					
30		1304 334 061	81 32103 0090	Cylinder	1		●					
31	298.026	1304 298 908	81 32900 6019	Oil Seal Kit	1		●					
32	198.945	1304 298 914	81 32900 6018	Gasket Kit	1		●					

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Notes

Date

07 / 2006

Table

0050 / B

suitable to :

Z.F.

EcoMid

8S180

ECOMID
8S180

Application

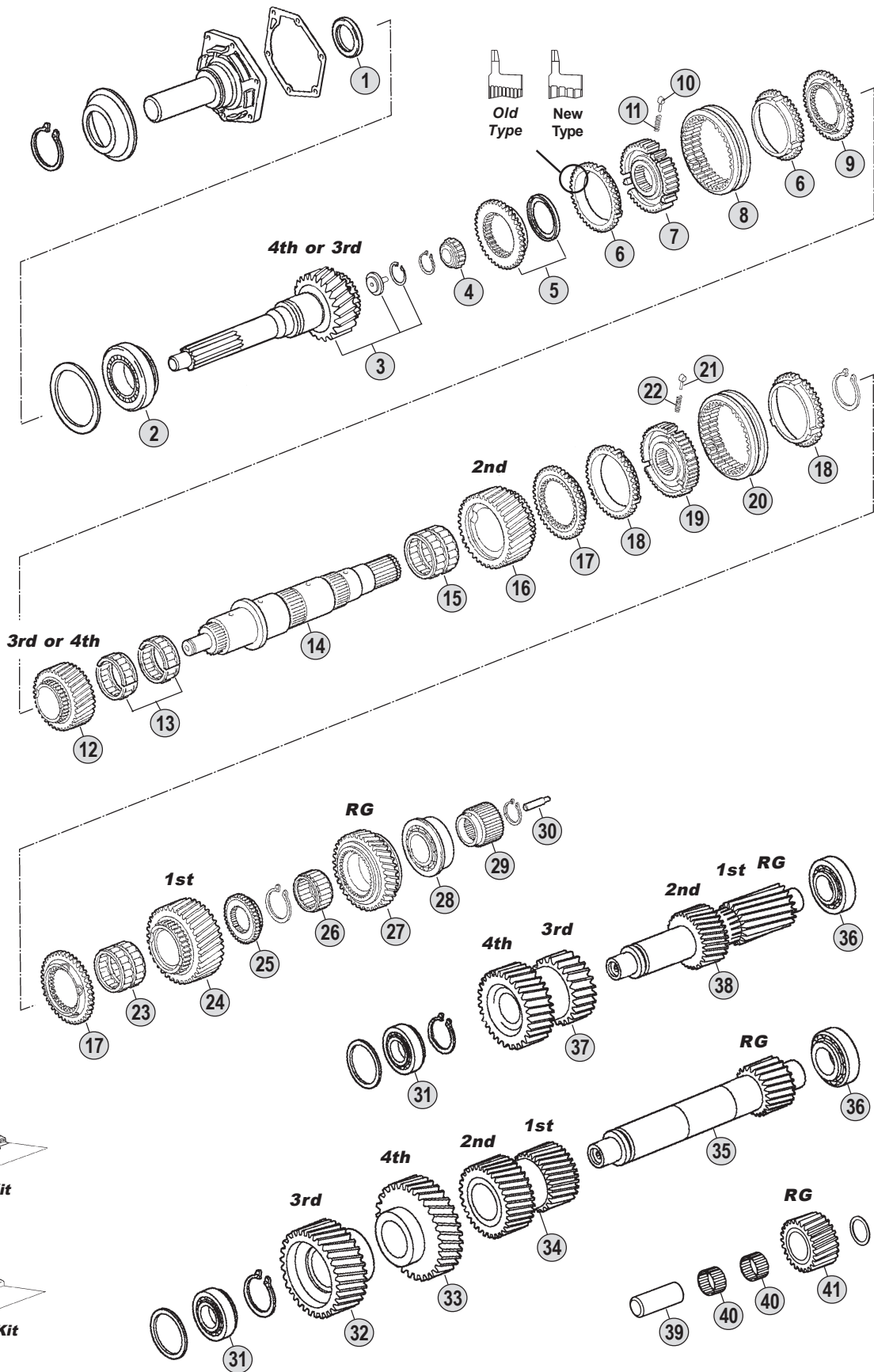
	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

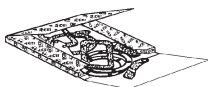
Ratio	Note
6,38-0,76	A
8,73-1,00	B

Suitable To : **ZF**

8S180



Kits



**Gasket Kit
43**



**Oil Seal Kit
42**

Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	8S180 (1304)						
		ZF no.	M.A.N. no.											
1		0734 310 104	81 96502 0403	Oil Seal 52x68x8	1		●							
2	130.706	0750 117 518	81 93420 0272	Roller Bearing D.71,4x120x32,5	1		●							
3	102.348	1304 202 206		Input Shaft 29 T	1		●							
3		1304 202 207		Input Shaft 29 T	1		●							
3	102.361	1304 202 208	81 32205 6010	Input Shaft 29 T	1		●							
3		1304 202 210		Input Shaft 29 T	1		●							
3		1304 202 211		Input Shaft 29 T	1		●							
3	102.349	1304 202 212	81 32205 6011	Input Shaft 29 T	1		●							
4	137.150	0750 117 232	81 93501 0080	Roller Cage D.42x81x40,30	1		●							
5	109.396	1304 202 214	81 32425 0122	Synchronizer Cone	1		●							
6	119.219	1311 304 076	81 32420 0175	Synchronizer Ring	2	Old Type	●							
6	119.220	1311 304 255	81 32420 0231	Synchronizer Ring	2	New Type	●							
7	157.702	1304 304 651	81 32420 0189	Synchronizer Hub	1		●							
8	154.363	1304 304 664	81 32402 0166	Sliding Sleeve	1		●							
9	109.395	1304 302 425	81 32425 0123	Synchronizer Cone	1		●							
10	160.189	1297 304 436	81 32510 0013	Pressure Piece	3		●							
11	156.140	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●							
12	147.233	1304 304 637	81 32301 0879	Gear 4th Speed 24 T	1		●	A						
12	147.231	1304 304 636		Gear 3rd Speed 29 T	1		●	B						
13	137.260	0750 115 430	81 93402 0131	Needle Cage 70x78x60	1		●							
14	103.191	1304 304 604	81 32202 0077	Main Shaft	1		●							
15	137.259	0735 320 378	81 93402 0129	Needle Cage 70x83x55	1		●							
16	145.827	1304 304 582	81 32301 0877	Gear 2nd Speed 29 T	1		●	A						
16	145.825	1304 304 581		Gear 2nd Speed 33 T	1		●	B						
17	109.392	1311 304 015	81 32425 0109	Synchronizer Cone	2		●							
18	119.118	1268 304 445	81 32420 0173	Synchronizer Ring	2	Old Type	●							
18	119.142	1268 304 594	82 32420 0012	Synchronizer Ring	2	New Type	●							
19	157.700	1304 304 576	81 32420 0185	Synchronizer Hub	1		●							
20	154.200	1304 304 597	81 32402 0147	Sliding Sleeve 1st-2nd Speed	1		●							
21	160.189	1297 304 436	81 32510 0013	Pressure Piece	3		●							
22	156.140	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●							
23	137.260	0750 115 430	81 93402 0131	Needle Cage 70x78x60	1		●							
24	147.232	1304 304 587	81 32301 0878	Gear 1st Speed 33 T	1		●	A						
24	147.229	1304 304 586		Gear 1st Speed 38 T	1		●	B						
25	109.172	1304 304 007	81 32425 0097	Synchronizer Cone	1		●							
26	137.147	0750 115 225	81 93404 0044	Needle Cage D.60x68x39	1		●							
27	147.230	1304 304 672	81 32301 0936	Reverse Gear 35 T	1		●							
28	130.684	0735 371 599	81 93410 0092	Roller Bearing D.50,8x104,7x36,	1		●							
29	157.701	1304 304 588	81 32301 0881	Sun Gear	1		●							
30	188.209	1312 304 150	81 32562 0146	Oil Tube	1		●							
31	130.685	0735 371 096	81 93420 0273	Roller Bearing D.40x85x33	1		●							
32	146.586	1304 303 294	81 32301 0876	Gear 3rd Speed 31 T	1		●	A						
33	147.234	1304 303 293	81 32301 0875	Gear 4th Speed 34 T	1		●	A						
34	143.121	1304 303 292	81 32303 0034	Double Gear 19/23 T	1		●	A						
35	105.186	1304 303 291	81 32206 0099	Countershaft 16 T	1		●	A						

Notes

Date

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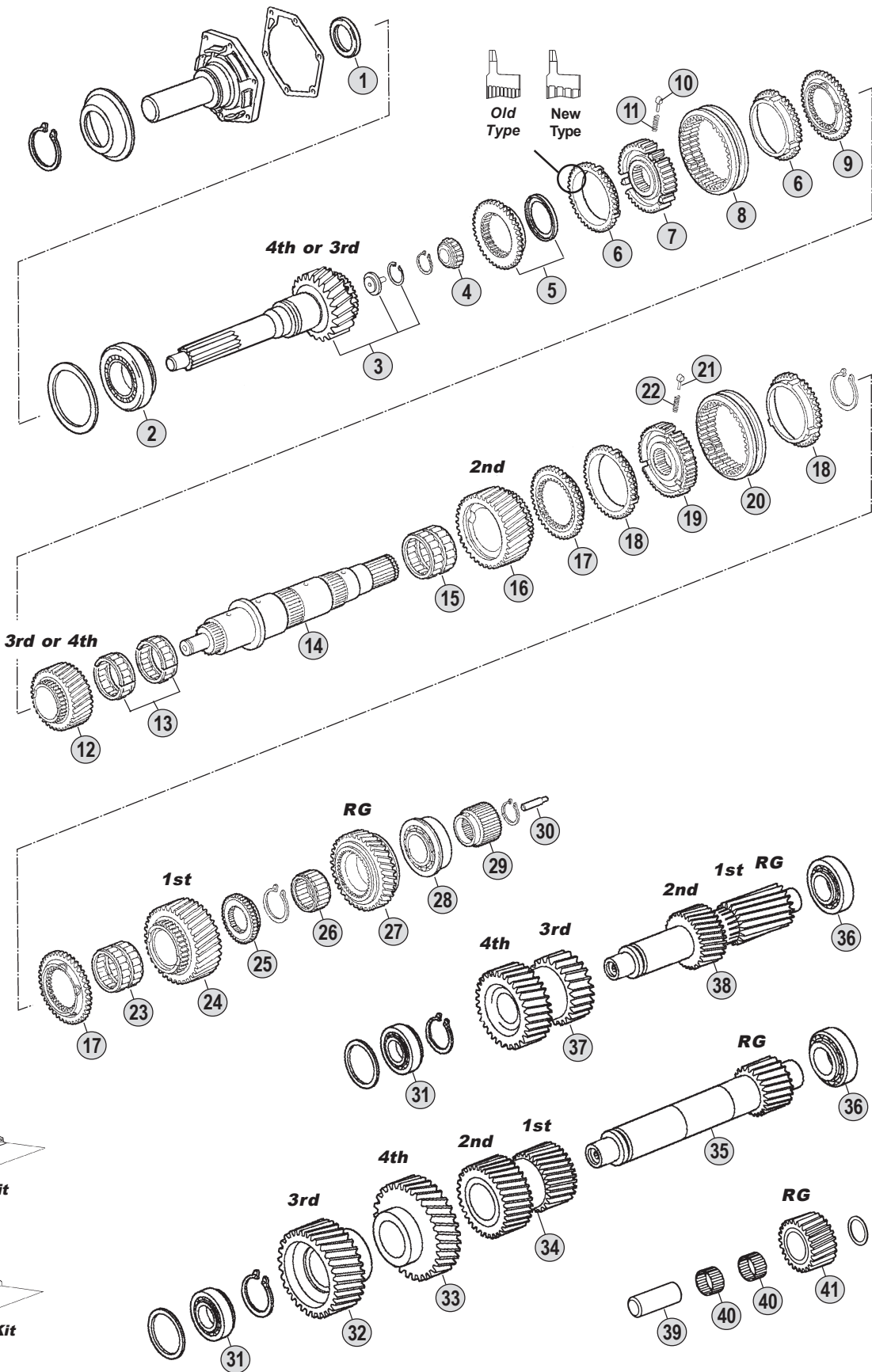
Table

0060 / A

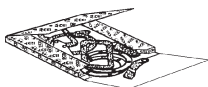
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Suitable To : **ZF**

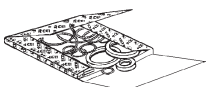
8S180



Kits



**Gasket Kit
43**



**Oil Seal Kit
42**

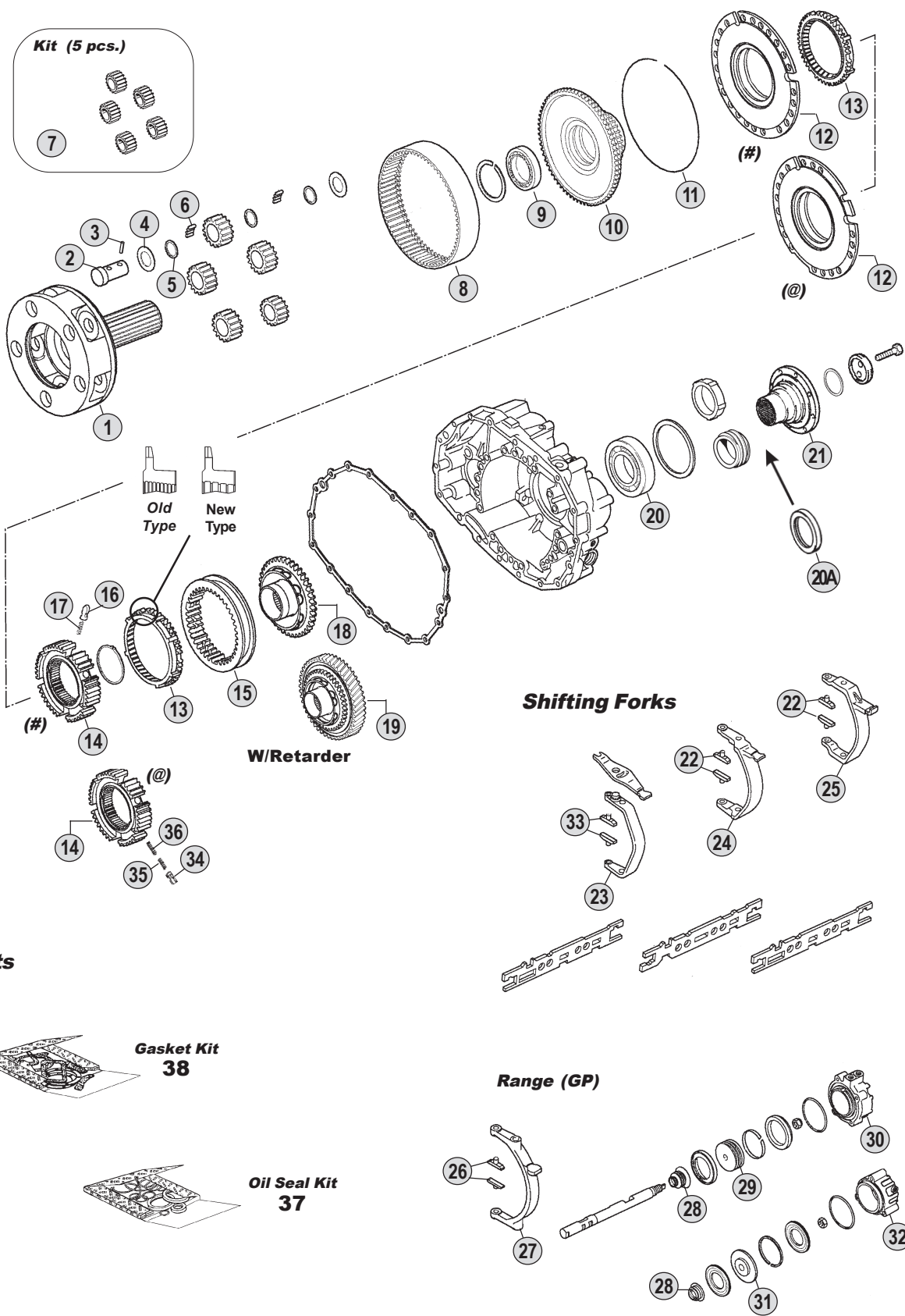
Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00

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Suitable To : **ZF**

8S180



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Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00



8S180 (1304)

ECOMID
8S180

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	M.A.N. no.					8S180				
1	190.388	1304 232 092	81 37501 0040	Planetary Carrier	1		●					
2	107.157	1304 332 111	81 32523 0153	Planet Pin	5		●					
3	160.239	0631 329 037		Lock Pin 4x26	5		●					
4	169.396	0501 304 692	81 90713 0038	Thrust Washer 1,50	5		●					
5	169.397	0730 103 102	81 90713 0037	Spacer Ring 1,50	15		●					
6	171.044	0735 470 115	81 93403 0020	Roller D.5x15,30	200		●					
7	298.019	1304 232 051	81 32301 6014	Planetary Gear Set	1		●					
8	123.265	1304 332 122	81 32301 0882	Crown Gear 117 T	1		●					
9	130.265	0735 340 080	81 93410 0078	Bearing D.70x90x10	1		(#)	●				
9	130.310	0750 116 165	81 93410 0083	Bearing D.80x110x16	1		(@)	●				
10	150.163	1304 332 071	81 37511 0003	Carrier Hub	1		(#)	●				
10		1304 332 210	84 37511 0001	Carrier hub	1		(@)	●				
11	111.175	0730 505 053	81 90820 0308	Locking Wire 2,50	1		●					
12	198.817	1304 233 005	81 32425 0090	Synchronizer Cone	1		(#)	●				
12	198.796	1304 233 006	84 32425 0001	Synchronizer Cone	1		(@)	●				
13	119.157	1304 333 005	81 32420 0140	Synchronizer Ring	2	Old Type	(#)	●				
13	119.171	1304 333 021		Synchronizer Ring	2	New Type	(#)	●				
13	119.085	1296 333 022	81 32420 0096	Synchronizer Ring	2	Old Type	(@)	●				
13	119.172	1296 333 045	81 32420 0236	Synchronizer Ring	2	New Type	(@)	●				
14	157.205	1304 332 066	81 32420 0139	Synchronizer Hub	1		(#)	●				
14	157.182	1313 333 001	81 32420 0152	Synchronizer Hub	1		(@)	●				
15	154.210	1304 332 089	81 32402 0137	Sliding Sleeve	1		(#)	●				
15	154.201	1304 333 011	84 32402 0001	Sliding Sleeve	1		(@)	●				
16	160.116	1240 304 278	81 32510 0005	Pressure Piece	6		(#)	●				
17	156.037	0732 040 385	81 97601 0757	Outer Spring De.6x34	6		(#)	●				
18	109.183	1304 332 075	81 32425 0091	Synchronizer Cone	1		(#)	●				
18	109.393	1304 233 013	81 32425 0143	Synchronizer Cone	1		(@)	●				
19	109.397	1304 313 133		Synchronizer Cone	1	with retarder	(#)	●				
19	109.173	1304 232 085	84 32425 0002	Synchronizer Cone	1	with retarder	(@)	●				
20	130.690	0750 116 048	81 93410 0077	Roller Bearing D.78x130x25	1		(#)	●				
20		0750 116 197		Bearing D.80x140x26	1		(@)	●				
20A		0734 319 439	81 96502 0935	Oil seal D.95x115x10	1		●					
21		1304 338 037	81 39115 0301	Output Flange	1	D.165-4H.	(#)	●				
21		1304 338 050	81 39115 0296	Output Flange	1	D.180-4H.	(#)	●				
21		1304 338 069		Output Flange	1	D.180-4H.	(#)	●				
21		1304 338 035		Output Flange	1	D.180-8H.	(#)	●				
21		1304 338 097	83 39115 0500	Output Flange	1	D.180-4H.	(@)	●				
22	141.194	1290 306 066	81 32526 0027	Bronze Slide	2		●					
23		1304 306 103	81 32515 0094	Fork	1		A	●				
23		1304 306 102		Fork	1		B	●				
24		1304 306 009	81 32515 0083	Fork	1		●					
24		1304 306 043	81 32515 0079	Fork	1		●					
25		1304 306 011	81 32515 0086	Fork	1		●					
26	141.061	1272 334 003	81 32526 0019	Bronze Slide	2		●					
27		1304 334 039	81 32516 0118	Fork	1		(#)	●				

Notes

- @) Different versions.To be coupled together. DO NO MIX

Date

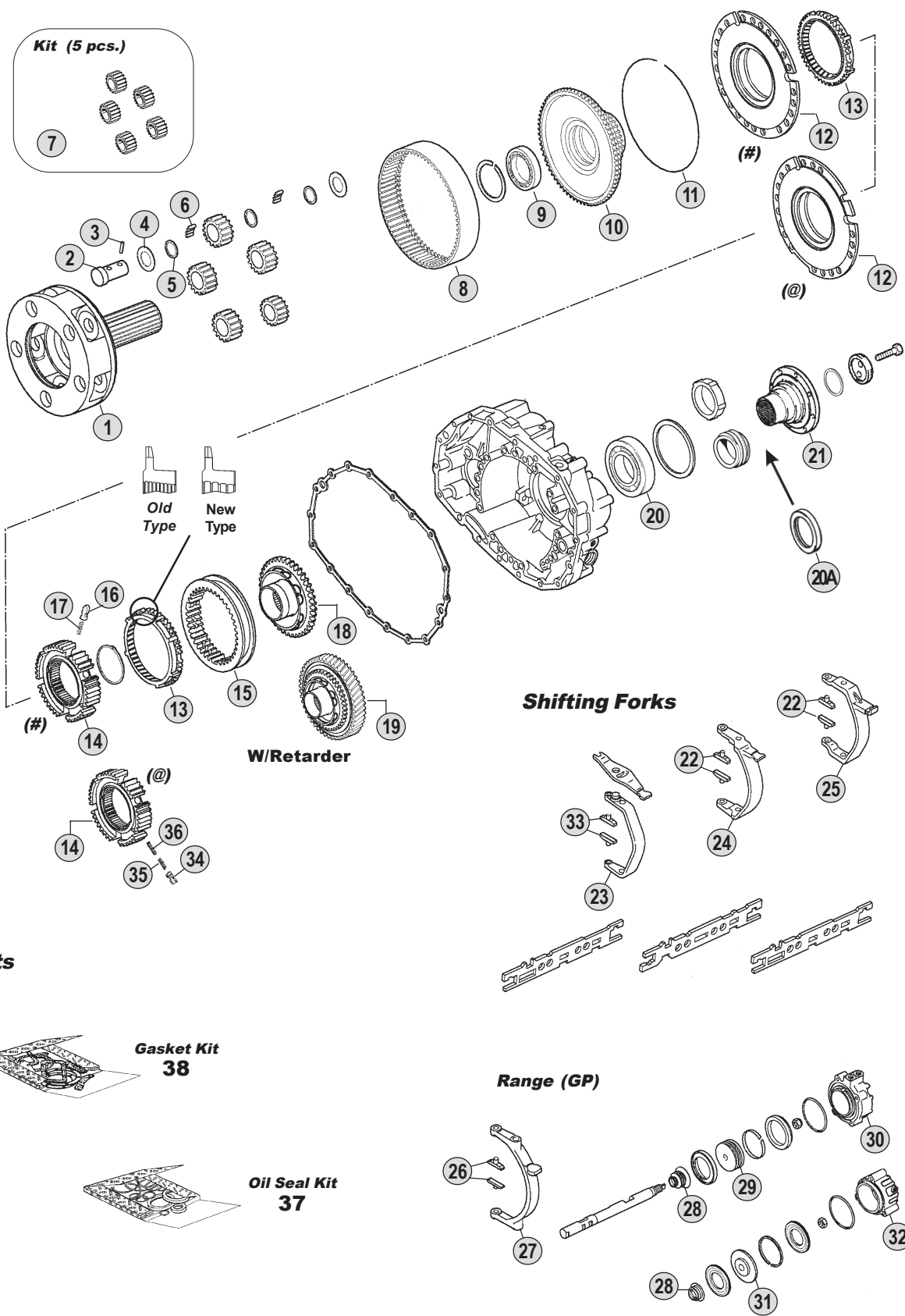
07 / 2006

Table

0060 / B

Suitable To : **ZF**

8S180



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Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00



suitable to :

Z.F.

EcoMid

9S109

ECOMID
9S109

Application

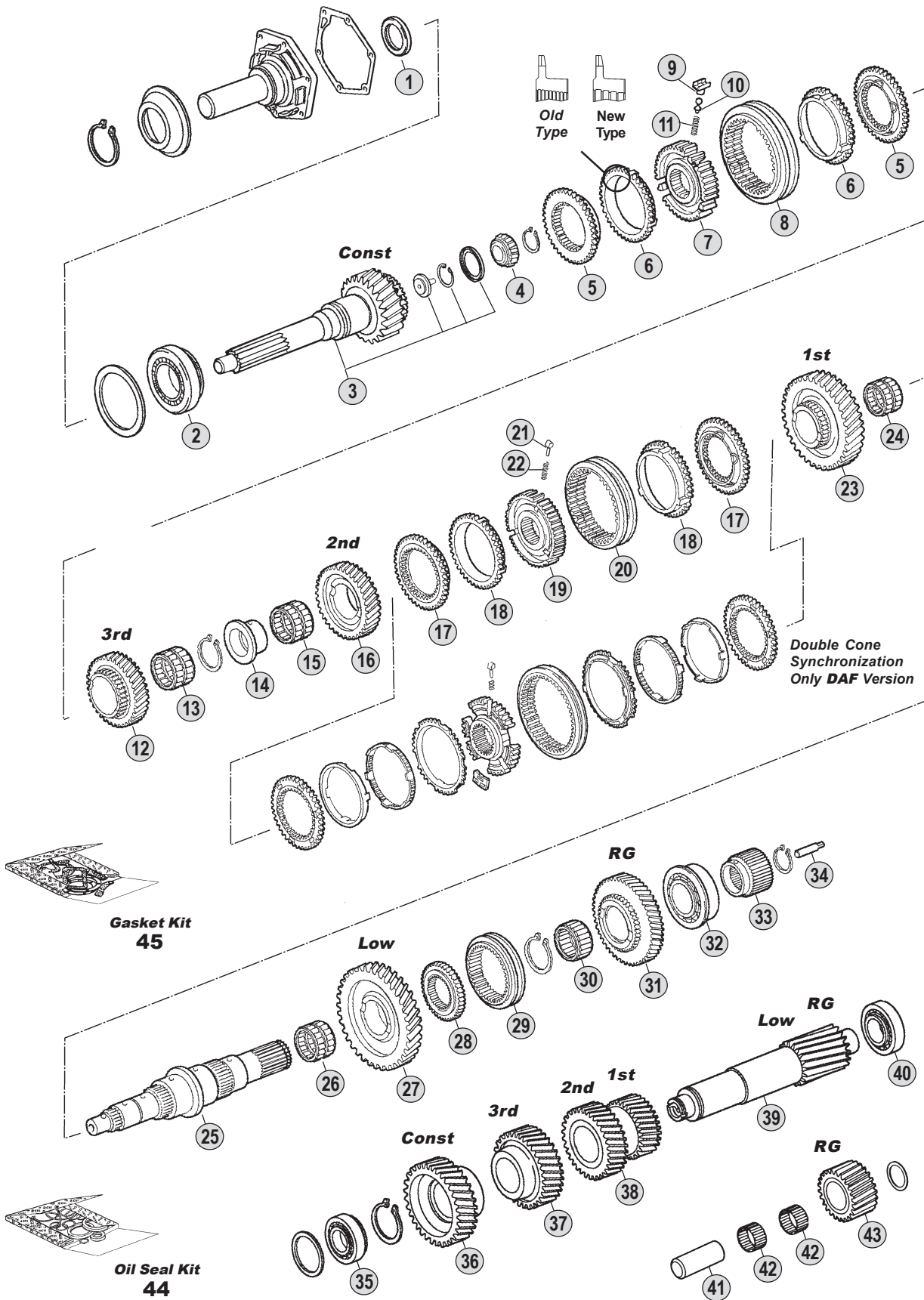
	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

Ratio	Note
10,24-0,74	A
10,25-0,79	B
12,91-1,00	C
12,92-1,00	D

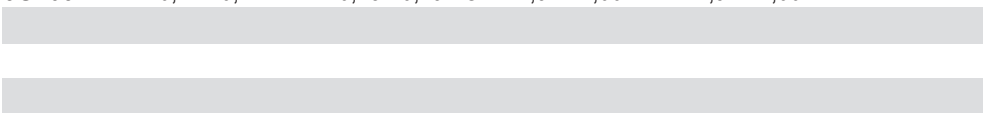
Suitable To : **ZF**

9S109



Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	9S109 (1304)						
		ZF no.	M.A.N. no.											
1	139.753	0750 111 149	81 96502 0934	Oil Seal D.48x65x10	1		●							
2	130.313	0750 117 079	81 93420 0203	Bearing D.66,6x117,4x30,1	1		●							
3	102.354	1304 202 170		Input Shaft 27 T	1		AB ●							
3	102.352	1304 202 171	89 20022 7117	Input Shaft 27 T	1		AB ●							
3	102.356	1304 202 172		Input Shaft 27 T	1		AB ●							
3	102.358	1304 202 173		Input Shaft 27 T	1		AB ●							
3	102.351	1304 202 180		Input Shaft 27 T	1		AB ●							
3	102.355	1304 202 245		Input Shaft 27 T	1		AB ●							
3	102.357	1304 202 168	81 32205 0266	Input Shaft 26 T	1		CD ●							
3	102.353	1304 202 175		Input Shaft 26 T	1		CD ●							
3	102.347	1304 202 177	81 32205 0196	Input Shaft 26 T	1		CD ●							
3	102.350	1304 202 178		Input Shaft 26 T	1		CD ●							
4	130.683	0735 371 748	81 93501 0098	Needle Bearing D.32x29,5	1		●							
5	109.391	1304 304 660	81 32425 0089	Synchronizer Cone	2		●							
6	119.150	1304 304 014	81 32420 0137	Synchronizer Ring	2	Old Type	●							
6	119.169	1304 304 683	81 32420 0235	Synchronizer Ring	2	New Type	●							
7	157.697	1304 304 051	81 32420 0138	Synchronizer Hub	1		●							
8	154.361	6002 305 515	81 32402 0136	Sliding Sleeve	1		●							
9	188.096	1238 304 394	81 32510 0007	Pressure Piece	3		●							
10	160.143	1249 304 222	81 32523 0081	Plunger	3		●							
11	156.140	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●							
12	145.832	1304 304 472		Gear 3rd Speed 23 T	1		A ●							
12	145.839	1304 304 365	89 20022 0833	Gear 3rd Speed 24 T	1		B ●							
12	145.836	1304 304 571	81 32302 0147	Gear 3rd Speed 27 T	1		C ●							
12	145.824	1304 304 500	81 32301 0745	Gear 3rd Speed 25 T	1		D ●							
13	137.258	0735 321 011	81 93404 0043	Needle Cage 60x68x23	1		●							
14	117.377	1304 304 050	81 93001 0314	Bush	1		●							
15	137.074	0750 115 227	81 93404 0042	Needle Bearing D.75x83x40	1		●							
16	145.831	1304 304 367		Gear 2nd Speed 31 T	1		AB ●							
16	145.835	1304 304 570	81 32302 0146	Gear 2nd Speed 30 T	1		C ●							
16	145.823	1304 304 499	81 32301 0744	Gear 2nd Speed 29 T	1		D ●							
17	109.171	1304 304 408	81 32425 0088	Synchronizer Cone	2		●							
18	119.151	1304 304 542	81 32420 0156	Synchronizer Ring	2	Old Type	●							
18	119.170	1304 304 681	82 32420 0013	Synchronizer Ring	2	New Type	●							
19	157.696	1304 304 591	81 32420 0207	Synchronizer Hub	1		●							
20	154.200	1304 304 597	81 32402 0147	Sliding Sleeve 1st-2nd Speed	1		●							
21	160.189	1297 304 436	81 32510 0013	Pressure Piece	3		●							
22	156.140	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●							
23	145.830	1304 304 471	81 32301 0706	Gear 1st Speed	1		A ●							
23	145.840	1304 304 369		Gear 1st Speed 33 T	1		B ●							
23	145.834	1304 304 569	81 32302 0145	Gear 1st Speed 33 T	1		C ●							
23	147.227	1304 304 498	81 32301 0743	Gear 1st Speed 33 T	1		D ●							
24	137.142	0735 320 816	81 93404 0045	Needle Cage D.75x83x23	1		●							
25	103.190	1304 304 449	81 32202 0053	Main Shaft	1		●							
26	137.257	0735 320 500	81 93402 0093	Needle Cage D.75x83x35	1		●							

Notes

Date

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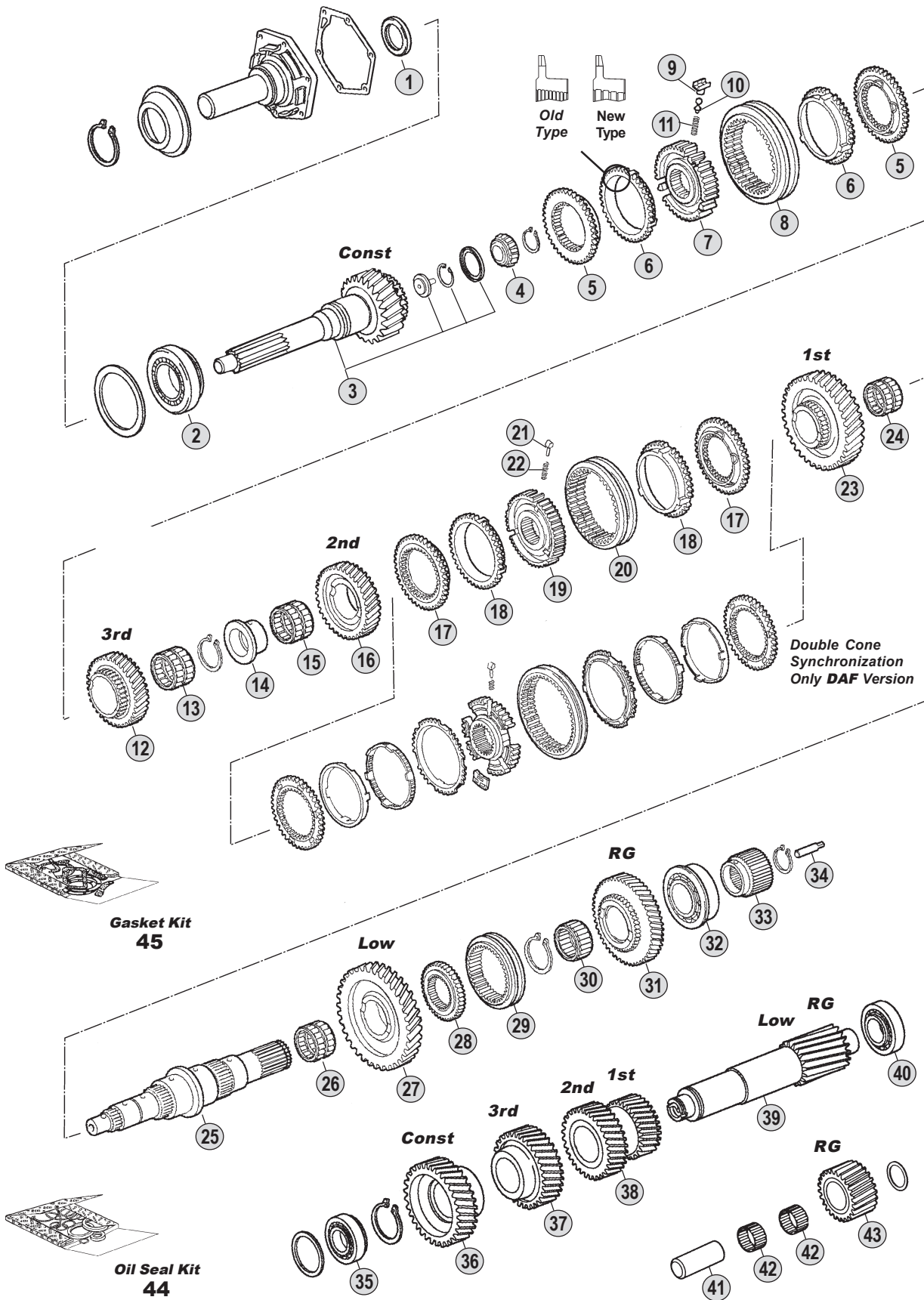
Table

0070 / A

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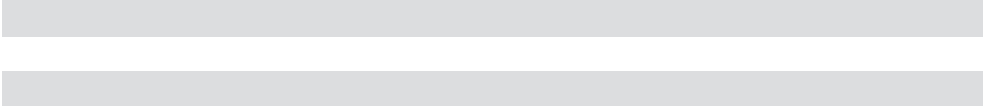
Suitable To : **ZF**

9S109



Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00



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9S109 (1304)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.										
27	145.829	1304 304 428				AB	●					
27	145.833	1304 304 543	81 32302 0143			C	●					
27	145.828	1304 304 426	81 32301 0741			D	●					
28	157.698	1304 304 443	81 32403 0084				●					
29	154.362	1304 304 444	81 32402 0143				●					
30	137.147	0750 115 225	81 93404 0044				●					
31	147.235	1304 304 437				AB	●					
31	147.236	1304 304 553	81 32302 0144			C	●					
31	147.226	1304 304 435	81 32301 0742			D	●					
32	130.315	0735 371 605	81 93420 0313				●					
33	157.699	1304 304 448	81 32301 0710				●					
34	188.209	1312 304 150	81 32562 0146				●					
35	130.314	0735 371 749	81 93420 0335				●					
36	146.588	1304 303 285				AB	●					
36	146.584	1304 303 272	81 32301 0740			CD	●					
37	146.587	1304 303 210				A	●					
37	146.590	1304 303 171				B	●					
37	146.589	1304 303 287	81 32302 0142			C	●					
37	147.228	1304 303 244	81 32301 0739			D	●					
38	143.122	1304 303 209				A	●					
38	143.125	1304 303 172				B	●					
38	143.123	1304 303 286	81 32303 0035			C	●					
38	143.119	1304 303 243	81 32303 0032			D	●					
39	105.187	1304 303 269				AB	●					
39	105.188	1304 303 268	81 32206 0145			C	●					
39	105.184	1304 303 267	81 32206 0076			D	●					
40	130.234	0750 117 083	81 93420 6029				●					
41	107.156	1304 305 030	81 91001 0549				●					
42	137.143	0735 358 192	81 93404 0047				●					
43		1304 305 043	91 32315 0056			AB	●					
43		1304 305 045	81 32315 0066			C	●					
43		1304 305 044	81 32315 0049			D	●					
44	298.026	1304 298 908	81 32900 6019				●					
45	198.945	1304 298 914	81 32900 6018				●					

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Notes

Date

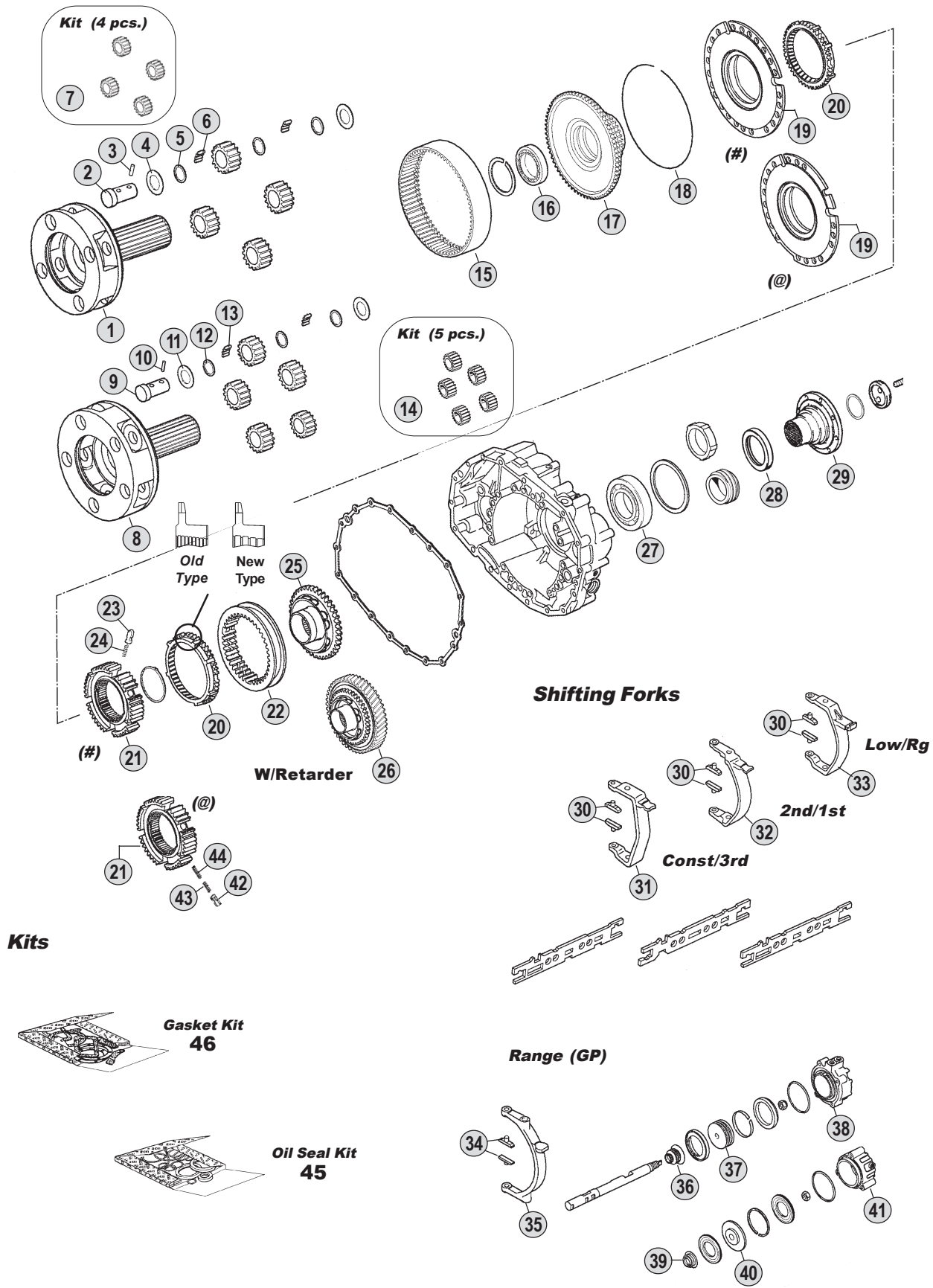
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Table

0070 / A

Suitable To : **ZF**

9S109



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Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00



Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	9S109 (1304)					
		ZF no.	M.A.N. no.										
1	190.391	1304 232 095	81 37501 0044	Planetary Carrier	1	(1)	●						
2	107.157	1304 332 111	81 32523 0153	Planet Pin	4	(1)	●						
3	160.239	0631 329 037		Lock Pin 4x26	4	(1)	●						
4	169.396	0501 304 692	81 90713 0038	Thrust Washer 1,50	8	(1)	●						
5	169.397	0730 103 102	81 90713 0037	Spacer Ring 1,50	12	(1)	●						
6	171.044	0735 470 115	81 93403 0020	Roller D.5x15,30	160	(1)	●						
7	298.023	1304 232 037	81 37505 6008	Planetary Gear Set	1	(1)	●						
8	190.387	1304 232 091		Planetary Carrier	1	(2)	●						
9	107.157	1304 332 111	81 32523 0153	Planet Pin	5	(2)	●						
10	160.239	0631 329 037		Lock Pin 4x26	5	(2)	●						
11	169.396	0501 304 692	81 90713 0038	Thrust Washer 1,50	10	(2)	●						
12	169.397	0730 103 102	81 90713 0037	Spacer Ring 1,50	15	(2)	●						
13	171.044	0735 470 115	81 93403 0020	Roller D.5x15,30	200	(2)	●						
14	298.018	1304 232 025		Planetary Gear Set	1	(2)	●						
15	123.210	1304 332 178	81 32301 0863	Crown Gear 86 T	1		●						
16	130.265	0735 340 080	81 93410 0078	Bearing D.70x90x10	1		(#)	●					
16	130.310	0750 116 165	81 93410 0083	Bearing D.80x110x16	1		(@)	●					
17	150.141	1304 332 060	81 37511 0004	Carrier Hub 86 T	1		(#)	●					
17	150.135	1304 332 215	81 32211 0005	Carrier Hub 86 T	1		(@)	●					
18	111.264	0730 505 140	81 90820 0485	Locking Wire	1		●						
19	198.817	1304 233 005	81 32425 0090	Synchronizer Cone	1		(#)	●					
19	198.796	1304 233 006	84 32425 0001	Synchronizer Cone	1		(@)	●					
20	119.157	1304 333 005	81 32420 0140	Synchronizer Ring	2	Old Type	(#)	●					
20	119.171	1304 333 021		Synchronizer Ring	2	New Type	(#)	●					
20	119.085	1296 333 022	81 32420 0096	Synchronizer Ring	2	Old Type	(@)	●					
20	119.172	1296 333 045	81 32420 0236	Synchronizer Ring	2	New Type	(@)	●					
21	157.205	1304 332 066	81 32420 0139	Synchronizer Hub	1		(#)	●					
21	157.182	1313 333 001	81 32420 0152	Synchronizer Hub	1		(@)	●					
22	154.210	1304 332 089	81 32402 0137	Sliding Sleeve	1		(#)	●					
22	154.201	1304 333 011	84 32402 0001	Sliding Sleeve	1		(@)	●					
23	160.116	1240 304 278	81 32510 0005	Pressure Piece	6		(#)	●					
24	156.037	0732 040 385	81 97601 0757	Outer Spring De.6x34	6		(#)	●					
25	109.183	1304 332 075	81 32425 0091	Synchronizer Cone	1		(#)	●					
25	109.393	1304 233 013	81 32425 0143	Synchronizer Cone	1		(@)	●					
26	109.173	1304 232 085	84 32425 0002	Synchronizer Cone	1	with ret.	(@)	●					
27	130.690	0750 116 048	81 93410 0077	Roller Bearing D.78x130x25	1		(#)	●					
27		0750 116 197		Bearing D.80x140x26	1		(@)	●					
28		0734 319 439	81 96502 0935	Oil seal D.95x115x10	1		●						
29		1304 338 059	81 39115 0297	Output Flange	1	D.150-4.H.	(#)	●					
29		1304 338 060	81 39115 0303	Output Flange	1	D.180-4.H.	(#)	●					
29		1304 338 050	81 39115 0296	Output Flange	1	D.180-4.H.	(#)	●					
29		1304 338 053		Output Flange	1	D.180-8.H.	(#)	●					
29		1304 338 052		Output Flange	1	D.180-10.H.	(#)	●					
29		1304 338 067		Output Flange	1	D.204-4.H.	(#)	●					
29		1304 338 056		Output Flange	1	D.204-4.H.	(#)	●					

Notes

- (1) Version with 4 planet pinions .To be coupled together. **DO NO MIX** the qty
 (2) Version with 5 planet pinions .To be coupled together. **DO NO MIX** the qty
 (# - @) Different versions.To be coupled together. **DO NO MIX**

Date

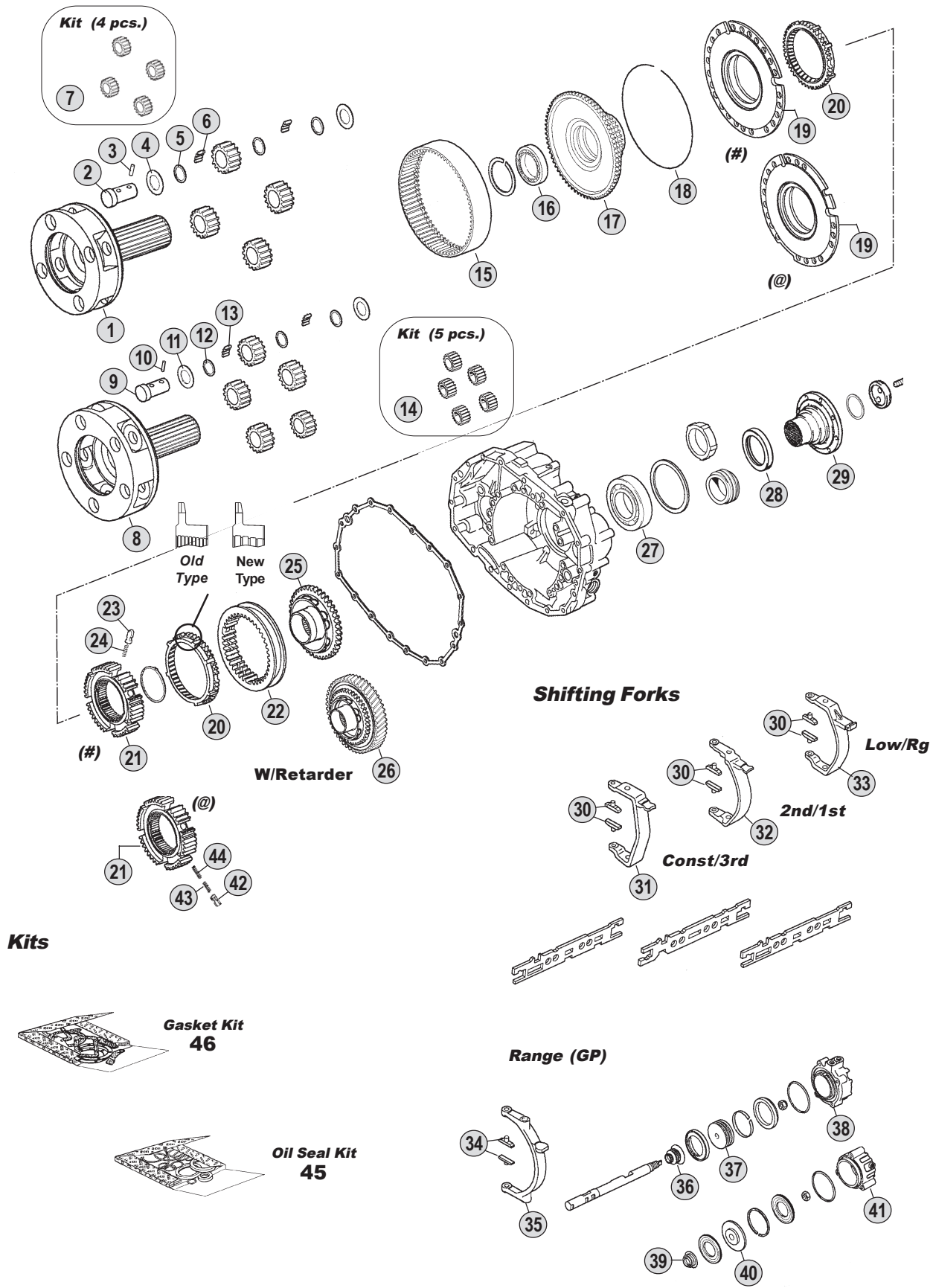
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Table

0070 / B

Suitable To : **ZF**

9S109



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Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.										
29		1304 338 109		Output Flange	1	D.180-4H.	(@)	●				
29		1304 338 097	83 39115 0500	Output Flange	1	D.180-4H.	(@)	●				
30	141.194	1290 306 066	81 32526 0027	Bronze Slide	2			●				
31		1304 306 010	81 32515 0085	Fork	1			●				
31		1304 306 044		Fork	1			●				
31		1304 306 096	81 32515 0090	Fork	1			●				
32		1304 306 043	81 32515 0079	Fork	1			●				
32		1304 306 009	81 32515 0083	Fork	1			●				
33		1304 306 077	81 32515 0084	Fork	1			●				
34	141.061	1272 334 003	81 32526 0019	Bronze Slide	2			●				
35		1304 334 039	81 32516 0118	Fork	1		(#)	●				
35		1304 334 063	84 32516 0001	Fork	1		(@)	●				
36		0750 112 047	81 32540 0031	Oil seal	1		(#)	●				
37		1304 334 072	81 32639 0053	Piston	1		(#)	●				
38		1304 334 061	81 32103 0090	Cylinder	1		(#)	●				
39		0750 112 047	81 32540 0031	Oil seal	1		(@)	●				
40		1315 334 041	81 32639 0064	Piston	1		(@)	●				
41		1304 334 079	81 32638 0039	Cylinder	1		(@)	●				
42	160.116	1240 304 278	81 32510 0005	Pressure Piece	9		(@)	●				
43	156.037	0732 040 385	81 97601 0757	Outer Spring De.6x34	9		(@)	●				
44	156.036	0732 040 386	81 97601 0758	Inner Spring De.3x34	9		(@)	●				
45	298.026	1304 298 908	81 32900 6019	Oil Seal Kit	1			●				
46	198.945	1304 298 914	81 32900 6018	Gasket Kit	1			●				

ECOMID
9S109

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Notes

- (1) Version with 4 planet pinions .To be coupled together. **DO NO MIX** the qty
 (2) Version with 5 planet pinions .To be coupled together. **DO NO MIX** the qty
 (# - @) Different versions.To be coupled together. **DO NO MIX**

Date

07 / 2006

Table

0070 / B

suitable to :

Z.F.

EcoMid

16S109

ECOMID
16S109

Application

	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

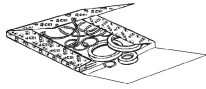
Ratios

Ratio	Note
13,30-1,00	A
13,31-1,00	B
13,41-1,00	C
13,42-1,00	D
13,53-0,82	E

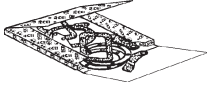
Suitable To : **ZF**

16S109

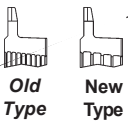
Kits



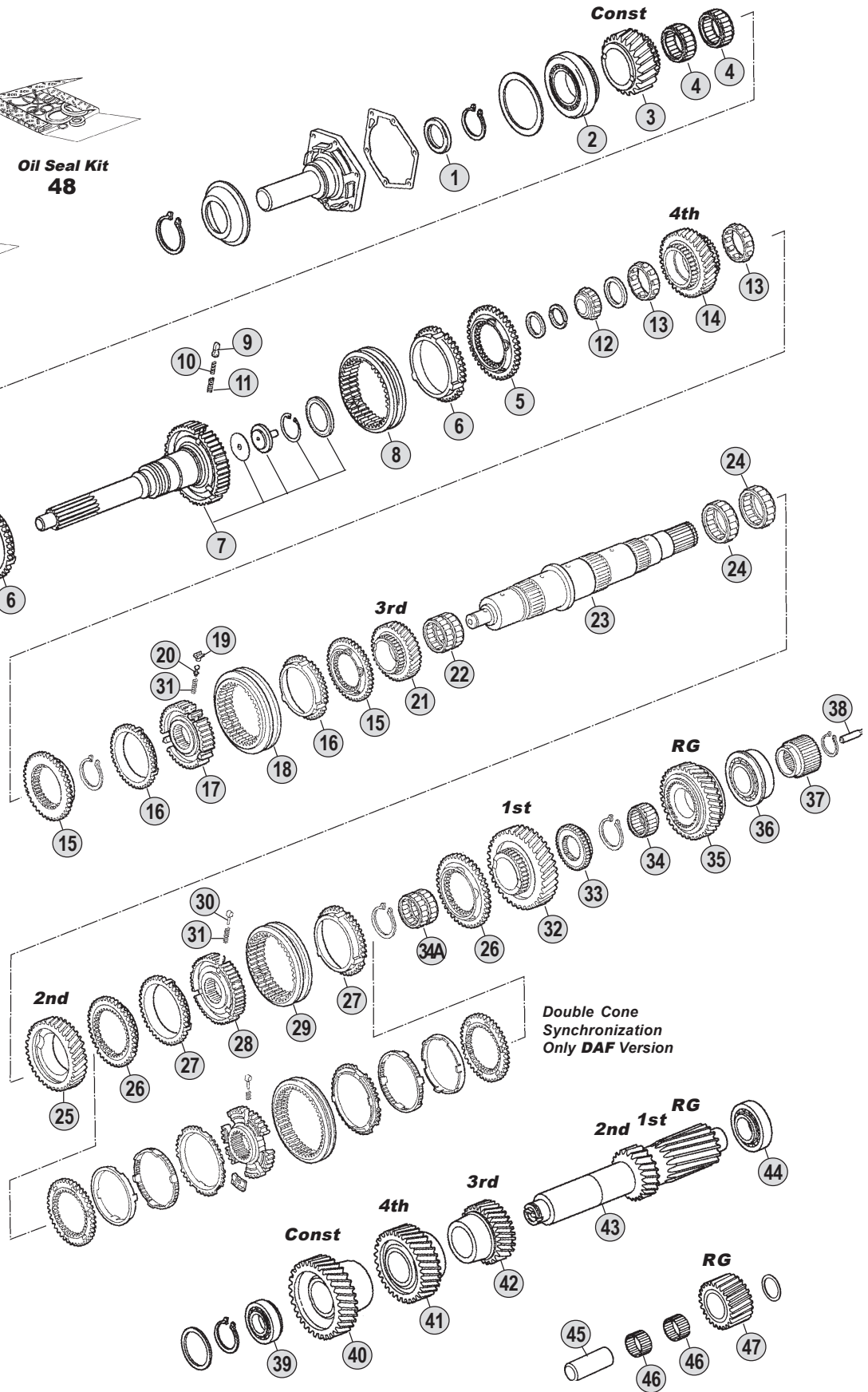
Oil Seal Kit 48



Gasket Kit 49



Old Type
New Type



Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	M.A.N. no.								
1	139.753	0750 111 149	81 96502 0934	Oil Seal D.48x65x10	1		●				
2	130.313	0750 117 079	81 93420 0203	Bearing D.66,6x117,4x30,1	1		●				
3	145.478	1304 302 169		Constant Gear	1		ABCD	●			
3	145.516	1304 302 150	81 32301 0726	Constant Gear 30 T	1		E	●			
4	137.142	0735 320 816	81 93404 0045	Needle Cage D.75x83x23	2		●				
5	109.169	1304 302 188	81 32425 0096	Synchronizer Cone	2		●				
6	119.149	1304 304 496	81 32420 0153	Synchronizer Ring	2	Old Type	●				
6	119.173	1304 304 680	81 32420 0234	Synchronizer Ring	2	New Type	●				
7	190.311	1304 202 201	81 32205 0236	Input Shaft	1		●				
7	190.312	1304 202 202	81 32205 0235	Input Shaft	1		●				
7	190.298	1304 202 203		Input Shaft	1		●				
8	154.064	1240 304 272	81 32402 0062	Sliding Sleeve	1		●				
9	160.116	1240 304 278	81 32510 0005	Pressure Piece	3		●				
10	156.036	0732 040 386	81 97601 0758	Inner Spring De.3x34	3		●				
11	156.037	0732 040 385	81 97601 0757	Outer Spring De.6x34	3		●				
12	137.144	0735 371 406	81 93501 0092	Roller Cage D.32x33	1		●				
13	137.145	0750 115 299	81 93404 0048	Needle Cage D.59,5x81,5x22	2		●				
14	146.397	1304 304 516		Gear 4th Speed	1		ABCD	●			
14	146.439	1304 304 518	81 32301 0734	Gear 4th Speed 27 T	1		E	●			
15	109.170	1304 304 012	81 32425 0098	Synchronizer Cone	2		●				
16	119.150	1304 304 014	81 32420 0137	Synchronizer Ring	2	Old Type	●				
16	119.169	1304 304 683	81 32420 0235	Synchronizer Ring	2	New Type	●				
17	157.186	1304 304 515	81 32420 0157	Synchronizer Hub	1		●				
18	154.199	1304 304 688	81 32402 0198	Sliding Sleeve	1		●				
19	188.096	1238 304 394	81 32510 0007	Pressure Piece	3		●				
20	160.143	1249 304 222	81 32523 0081	Plunger	3		●				
21	145.479	1304 304 475		Gear 3rd Speed	1		ABCD	●			
21	145.518	1304 304 417	81 32301 0732	Gear 3rd Speed	1		E	●			
22	137.142	0735 320 816	81 93404 0045	Needle Cage D.75x83x23	1		●				
23	103.129	1304 304 630	81 32202 0075	Main Shaft	1		●				
24	137.142	0735 320 816	81 93404 0045	Needle Cage D.75x83x23	2		●				
25	145.480	1304 304 497		Gear 2nd Speed 32 T	1		ABCD	●			
25	145.519	1304 304 422	81 32301 0730	Gear 2nd Speed	1		E	●			
26	109.171	1304 304 408	81 32425 0088	Synchronizer Cone	2		●				
27	119.151	1304 304 542	81 32420 0156	Synchronizer Ring	2	Old Type	●				
27	119.170	1304 304 681	82 32420 0013	Synchronizer Ring	2	New Type	●				
28	157.187	1304 304 653	81 32420 0188	Guide Sleeve 1st-2nd Speed	1		●				
29	154.200	1304 304 597	81 32402 0147	Sliding Sleeve 1st-2nd Speed	1		●				
30	160.189	1297 304 436	81 32510 0013	Pressure Piece	3		●				
31	156.140	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●				
32	145.533	1304 304 358		Gear 1st Speed 37 T	1		AD	●			
32	145.481	1304 304 549		Gear 1st Speed 37 T	1		BC	●			
32	145.520	1304 304 376	81 32301 0731	Gear 1st Speed 38 T	1		E	●			
33	109.172	1304 304 007	81 32425 0097	Synchronizer Cone	1		●				
34	137.147	0750 115 225	81 93404 0044	Needle Cage D.60x68x39	1		●				

Notes

Date

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Table

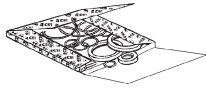
0080 / A

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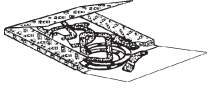
Suitable To : **ZF**

16S109

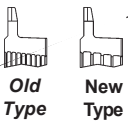
Kits



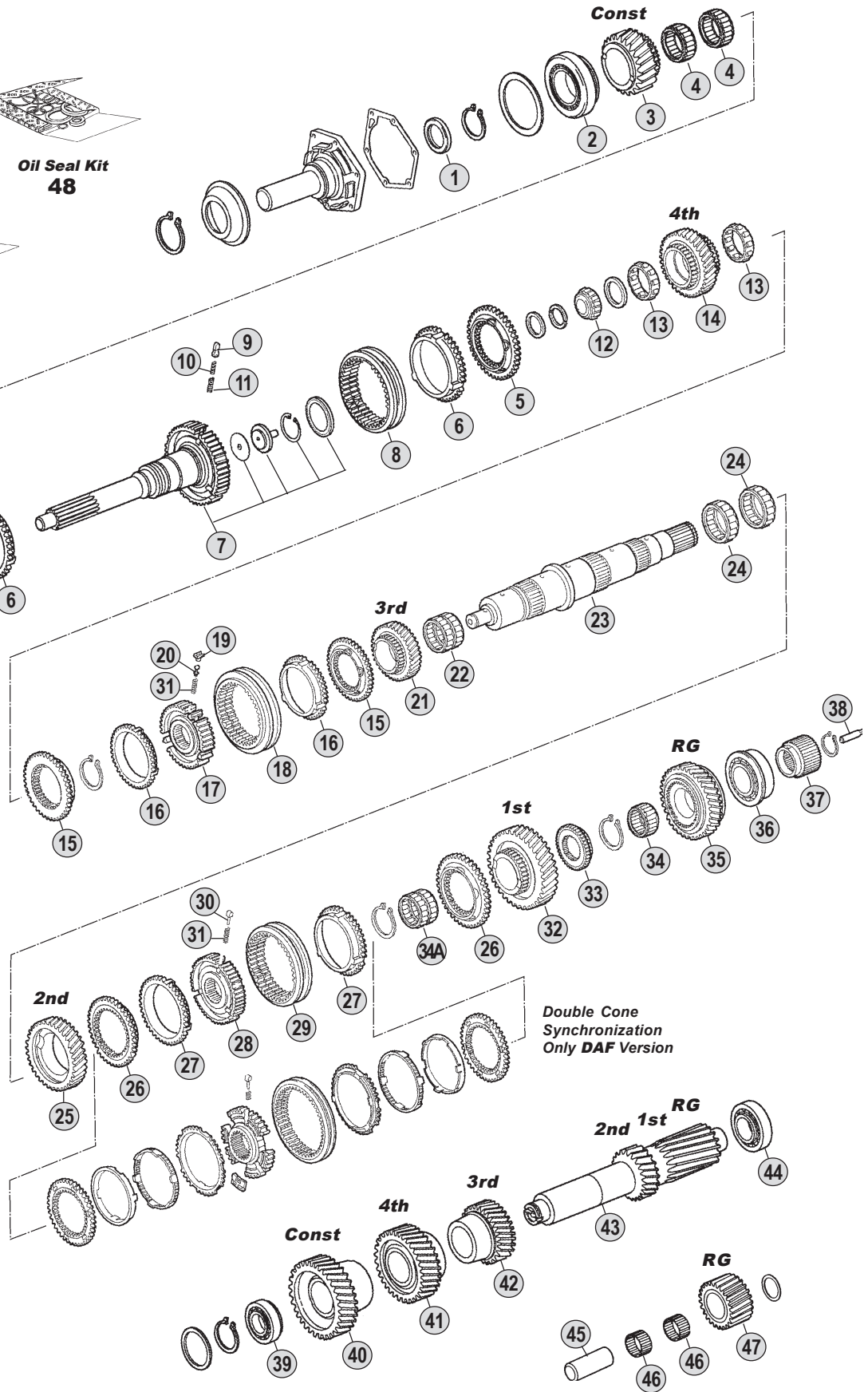
Oil Seal Kit 48



Gasket Kit 49



Old Type
New Type



Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	M.A.N. no.								
34A	137.146	0750 115 224	81 93402 0111	Needle Cage D.70x78x50	1		●				
35	147.146	1304 304 669		Reverse Gear 32 T	1		AD	●			
35	147.131	1304 304 671		Reverse Gear 35 T	1		BC	●			
35	147.149	1304 304 670	81 32301 0990	Reverse Gear 35 T	1		E	●			
36	130.315	0735 371 605	81 93420 0313	Bearing D.50,8x104,7x30,1	1			●			
37	157.188	1304 304 261		Sun Gear 29 T	1		AB	●			
37	157.703	1304 304 608		Sun Gear 30 T	1		CD	●			
37	157.201	1304 304 199	81 32301 0736	Sun Gear 21 T	1		E	●			
38	188.209	1312 304 150	81 32562 0146	Oil Tube	1			●			
39	130.314	0735 371 749	81 93420 0335	Bearing D.40x80x32	1			●			
40	146.394	1304 303 273		Constant Gear	1		ABCD	●			
40	146.434	1304 303 283	81 32301 0729	Constant Gear 31 T	1		E	●			
41	146.395	1304 303 212		Gear 4th Speed	1		ABCD	●			
41	146.436	1304 303 175	81 32301 0728	Gear 4th Speed 34 T	1		E	●			
42	146.396	1304 303 214		Gear 3rd Speed	1		ABCD	●			
42	146.438	1304 303 192	81 32301 0727	Gear 3rd Speed	1		E	●			
43	105.115	1304 303 276		Countershaft	1		AD	●			
43	105.099	1304 303 277		Countershaft 14 T	1		BC	●			
43	105.111	1304 303 279	81 32206 0074	Countershaft	1		E	●			
44	130.234	0750 117 083	81 93420 6029	Bearing D.50,8x95,2x27,7	1			●			
45	107.156	1304 305 030	81 91001 0549	Reverse Shaft	1			●			
46	137.143	0735 358 192	81 93404 0047	Needle Cage D.40x60x26	2			●			
47	147.150	1304 305 039		Reverse Gear 22 T	1		AD	●			
47	147.130	1304 305 040		Reverse Gear 21 T	1		BC	●			
47	147.145	1304 305 041	81 32315 0057	Reverse Gear 22 T	1		E	●			
48	298.026	1304 298 908	81 32900 6019	Oil Seal Kit	1			●			
49	198.945	1304 298 914	81 32900 6018	Gasket Kit	1			●			

Notes

Date

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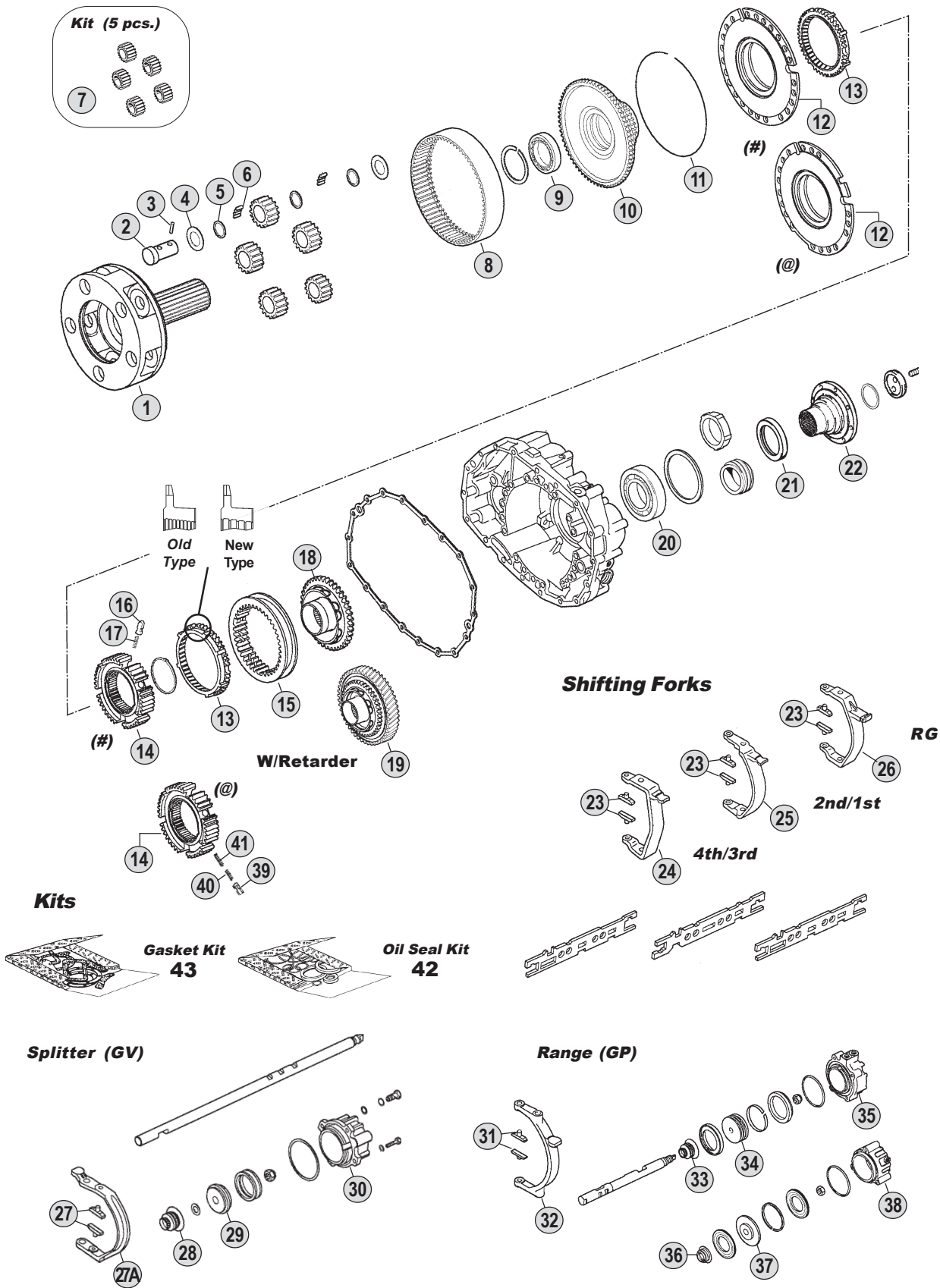
Table

0080 / A

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Suitable To : **ZF**

16S109



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Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	M.A.N. no.										
1	190.389	1304 232 088		Planetary Carrier	1		ABCD	●					
1	190.390	1304 232 086	81 37501 0023	Planetary Carrier	1		E	●					
2	107.157	1304 332 111	81 32523 0153	Planet Pin	5			●					
3	160.239	0631 329 037		Lock Pin 4x26	5			●					
4	169.396	0501 304 692	81 90713 0038	Thrust Washer 1,50	10			●					
5	169.397	0730 103 102	81 90713 0037	Spacer Ring 1,50	15			●					
6	171.044	0735 470 115	81 93403 0020	Roller D.5x15,30	200			●					
7	198.795	1304 232 026		Planetary Gear Set	1		AB	●					
7	298.022	1304 232 054		Planetary Gear Set	1		CD	●					
7	198.815	1304 232 022	81 37505 6007	Planetary Gear Set	1		E	●					
8	123.210	1304 332 178	81 32301 0863	Crown Gear 86 T	1		AB	●					
8	123.266	1304 332 134		Crown Gear 90 T	1		CD	●					
8	123.219	1304 332 043	81 32301 0735	Crown Gear 74 T	1		E	●					
9	130.265	0735 340 080	81 93410 0078	Bearing D.70x90x10	1		(#)	●					
9	130.310	0750 116 165	81 93410 0083	Bearing D.80x110x16	1		(@)	●					
10	150.141	1304 332 060	81 37511 0004	Carrier Hub 86 T	1		AB (#)	●					
10	150.135	1304 332 215	81 32211 0005	Carrier Hub 86 T	1		AB (@)	●					
10	150.164	1304 332 135		Carrier Hub 90 T	1		CD (#)	●					
10	150.166	1304 332 216		Carrier Hub 90 T	1		CD (@)	●					
10	150.139	1304 332 044	81 37511 0005	Carrier Hub 74 T	1		E (#)	●					
10	150.167	1304 332 217	81 37511 0011	Carrier Hub 74 T	1		E (@)	●					
11	111.264	0730 505 140	81 90820 0485	Locking Wire	1		ABCD	●					
11	111.265	0730 505 092	81 90820 0446	Locking Wire	1		E	●					
12	198.817	1304 233 005	81 32425 0090	Synchronizer Cone	1		(#)	●					
12	198.796	1304 233 006	84 32425 0001	Synchronizer Cone	1		(@)	●					
13	119.157	1304 333 005	81 32420 0140	Synchronizer Ring	2	Old Type	(#)	●					
13	119.171	1304 333 021		Synchronizer Ring	2	New Type	(#)	●					
13	119.085	1296 333 022	81 32420 0096	Synchronizer Ring	2	Old Type	(@)	●					
13	119.172	1296 333 045	81 32420 0236	Synchronizer Ring	2	New Type	(@)	●					
14	157.205	1304 332 066	81 32420 0139	Synchronizer Hub	1		(#)	●					
14	157.182	1313 333 001	81 32420 0152	Synchronizer Hub	1		(@)	●					
15	154.210	1304 332 089	81 32402 0137	Sliding Sleeve	1		(#)	●					
15	154.201	1304 333 011	84 32402 0001	Sliding Sleeve	1		(@)	●					
16	160.116	1240 304 278	81 32510 0005	Pressure Piece	6		(#)	●					
17	156.037	0732 040 385	81 97601 0757	Outer Spring De.6x34	6		(#)	●					
18	109.183	1304 332 075	81 32425 0091	Synchronizer Cone	1		(#)	●					
18	109.393	1304 233 013	81 32425 0143	Synchronizer Cone	1		(@)	●					
19	109.397	1304 313 133		Synchronizer Cone	1	with retarder	(#)	●					
19	109.173	1304 232 085	84 32425 0002	Synchronizer Cone	1	with retarder	(@)	●					
20	130.690	0750 116 048	81 93410 0077	Roller Bearing D.78x130x25	1		(#)	●					
20		0750 116 197		Bearing D.80x140x26	1		(@)	●					
21		0734 319 439	81 96502 0935	Oil seal D.95x115x10	1			●					
22		1304 338 059	81 39115 0297	Output Flange	1	D.150-4H.	(#)	●					
22		1304 338 050	81 39115 0296	Output Flange	1	D.180-4H.	(#)	●					
22		1304 338 052		Output Flange	1	D.180-10H.	(#)	●					

Notes

- @) Different versions.To be coupled together. DO NO MIX

Date

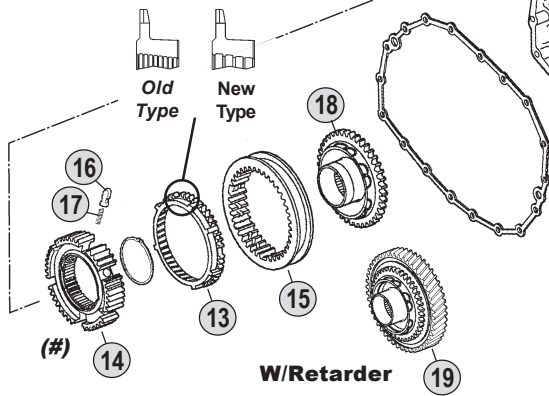
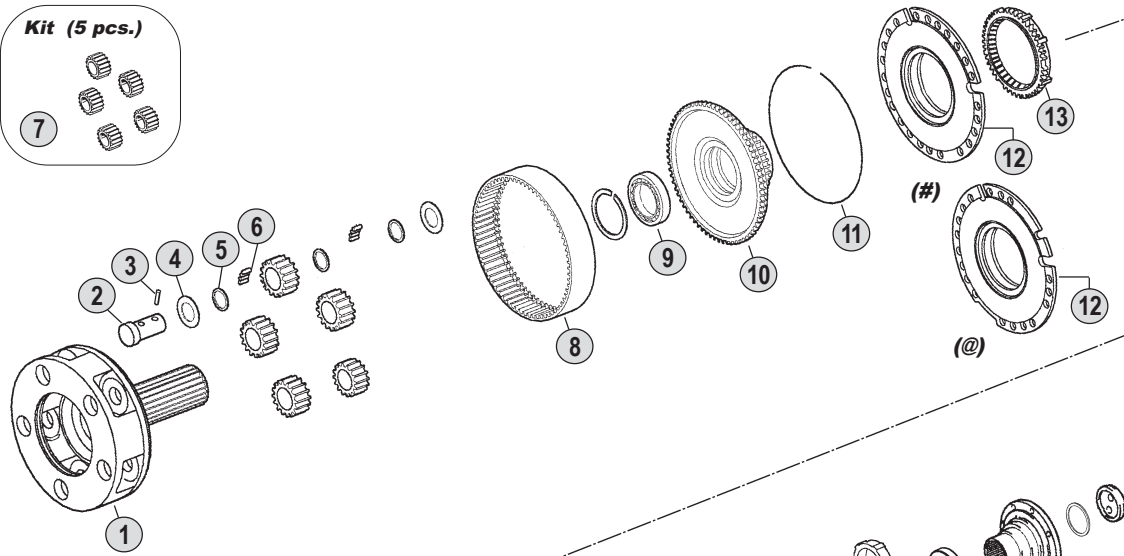
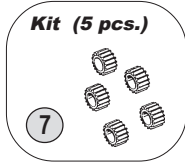
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Table

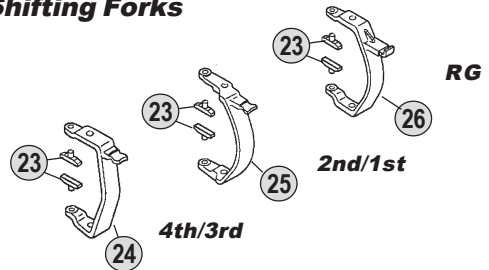
0080 / B

Suitable To : **ZF**

16S109



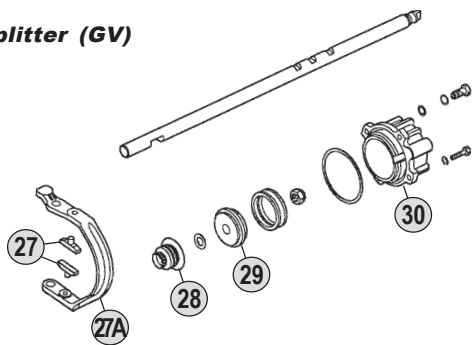
Shifting Forks



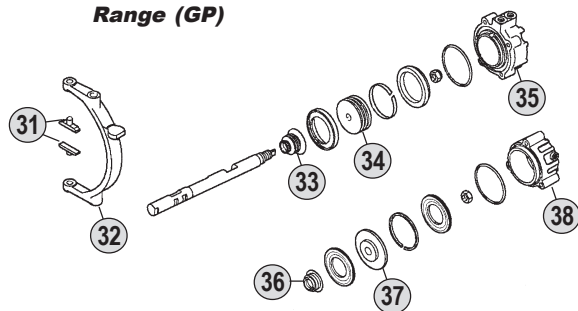
Kits



Splitter (GV)



Range (GP)



Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	M.A.N. no.										
22		1304 338 056		Output Flange	1	D.204-4H.	(#)	●					
22		1304 338 097	83 39115 0500	Output Flange	1	D.180-4H.	(@)	●					
22		1304 338 109		Output Flange	1	D.180-4H.	(@)	●					
23	141.194	1290 306 066	81 32526 0027	Bronze Slide	2			●					
24		1304 306 010	81 32515 0085	Fork	1			●					
24		1304 306 044		Fork	1			●					
25		1304 306 009	81 32515 0083	Fork	1			●					
25		1304 306 043	81 32515 0079	Fork	1			●					
26		1304 306 011	81 32515 0086	Fork	1			●					
27	141.146	1268 312 057	81 32526 0024	Slide	2			●					
27A		1304 312 003	81 32516 0120	Fork	1			●					
28		0750 112 047	81 32540 0031	Oil seal	1			●					
29	189.421	1296 312 053	81 32639 0014	Piston	1			●					
30		1304 212 005	81 32103 0114	Cylinder	1			●					
31	141.061	1272 334 003	81 32526 0019	Bronze Slide	2			●					
32		1304 334 039	81 32516 0118	Fork	1		(#)	●					
32		1304 334 063	84 32516 0001	Fork	1		(@)	●					
33		0750 112 047	81 32540 0031	Oil seal	1		(#)	●					
34		1304 334 072	81 32639 0053	Piston	1		(#)	●					
35		1304 334 061	81 32103 0090	Cylinder	1		(#)	●					
36		0750 112 047	81 32540 0031	Oil seal	1		(@)	●					
37		1315 334 041	81 32639 0064	Piston	1		(@)	●					
38		1304 334 079	81 32638 0039	Cylinder	1		(@)	●					
39	160.116	1240 304 278	81 32510 0005	Pressure Piece	9		(@)	●					
40	156.037	0732 040 385	81 97601 0757	Outer Spring De.6x34	9		(@)	●					
41	156.036	0732 040 386	81 97601 0758	Inner Spring De.3x34	9		(@)	●					
42	298.026	1304 298 908	81 32900 6019	Oil Seal Kit	1			●					
43	198.945	1304 298 914	81 32900 6018	Gasket Kit	1			●					

ECOMID
16S109

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Notes

Date

(# - @) Different versions.To be coupled together. DO NO MIX

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Table

0080 / B

Suitable to: **IVECO**

Gearboxes Index

EcoLite**Bus Applications****S6-85****EcoMid****Bus Applications****8S180****EcoMid****Truck Applications****9S109****16S109****IVECO
INDEX**

suitable to :

Z.F.

EcoLite

S6-85

Application

	S6-85 (1310)	6S-1600 (1310)				
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

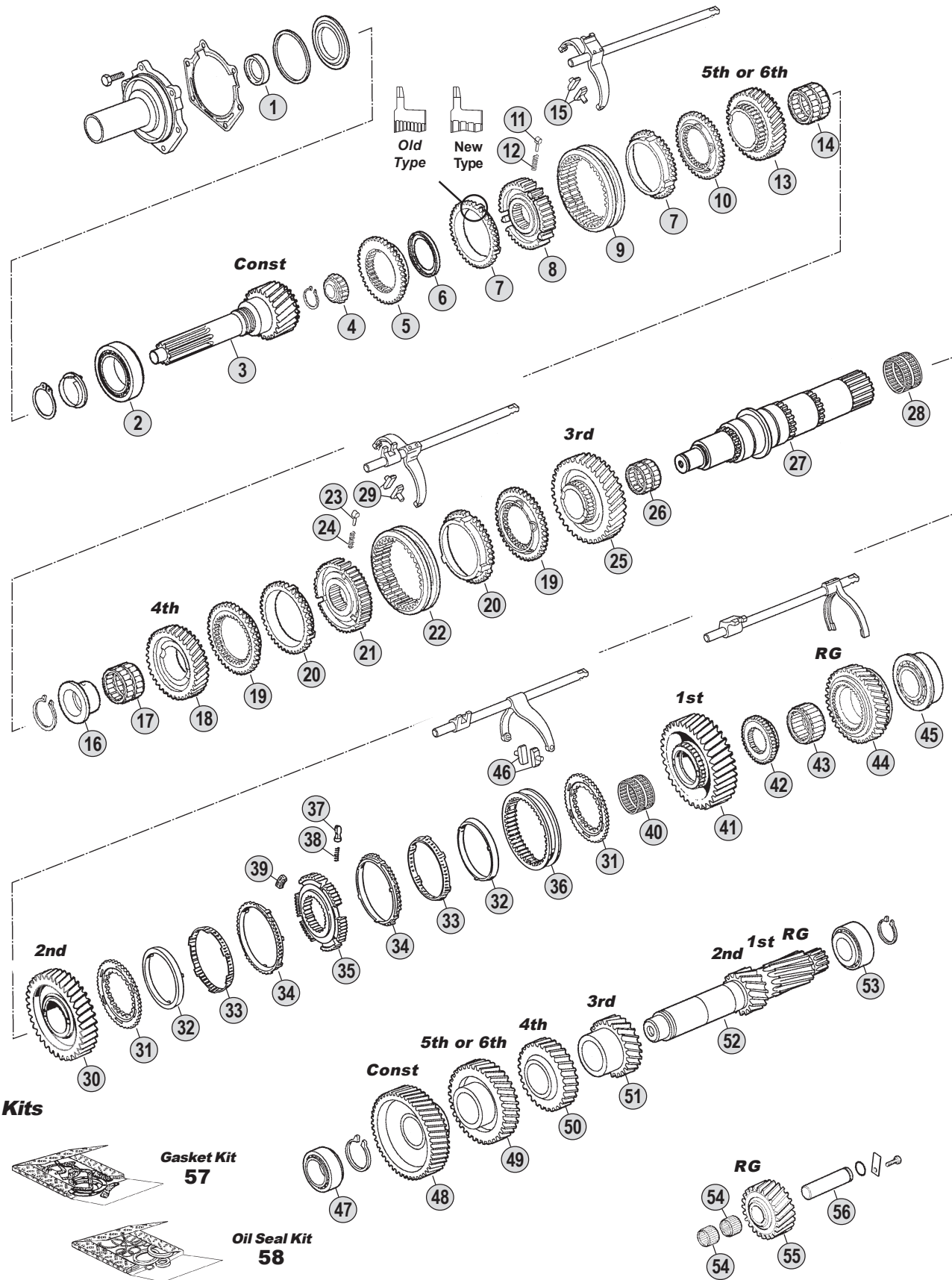
Ratio	Note
6,75-0,83	A
7,72-1,00	B

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ECOLITE
S6-85

Suitable To : **ZF**

S6-85



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Ratios

S6-85 A : 6,75 - 0,83 B : 7,72 - 1,00

S6-85 (1310)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	IVECO no.					S6-85 (1310)					
1	139.753	0750 111 149	8193659	Oil Seal D.48x65x10	1			●					
2	130.704	0750 117 347	2991709	Bearing D.70x115x29	1			●					
3	102.387	1310 302 001		Input Shaft	1		A	●					
3	102.388	1310 302 025		Input Shaft	1		A	●					
3	102.389	1310 302 032	93194766	Input Shaft	1		A	●					
3	102.390	1310 302 026	93192320	Input Shaft	1		B	●					
3	102.391	1310 302 022		Input Shaft	1		B	●					
3	102.392	1310 302 021		Input Shaft	1		B	●					
3	102.393	1310 302 033	93194888	Input Shaft	1		B	●					
4		0750 117 562		Bearing D.28x32	1			●					
5	109.400	1310 302 023	93194767	Synchronizer Cone	1		A	●					
5	109.401	1310 302 024	93192321	Synchronizer Cone	1		B	●					
6	269.011	0501 313 171	93192322	Oil Seal	1			●					
7	119.219	1311 304 076	93191285	Synchronizer Ring	2	Old Type		●					
7	119.220	1311 304 255	42532603	Synchronizer Ring	2	New Type		●					
8	157.706	1311 304 226	93192454	Synchronizer Hub	1			●					
9	154.363	1304 304 664	93194136	Sliding Sleeve	1			●					
10	109.402	1311 304 009	93192453	Synchronizer Cone	1			●					
11	160.189	1297 304 436	93156036	Pressure Piece	3			●					
12	156.140	0732 040 409	2967403	Spring D.6,5x23,5	3			●					
13	145.886	1310 304 091	93194781	Gear 6th Speed 23 T	1		A	●					
13	145.887	1310 304 092	93192452	Gear 5th Speed 26 T	1		B	●					
14	137.269	0735 321 543	1905386	Needle Cage D.52x60x23	1			●					
15	141.194	1290 306 066	42490421	Bronze Slide	2			●					
16	117.384	1311 304 124	93192447	Bush	1			●					
17	137.078	0735 320 493	42484759	Needle Bearing D.70x78x36,50	1			●					
18	145.888	1310 304 088	93194780	Gear 4th Speed 29 T	1		A	●					
18	145.889	1310 304 093	93192448	Gear 4th Speed 30 T	1		B	●					
19	109.134	1312 304 027	93156419	Synchronizer Cone	2			●					
20	119.119	1297 304 402	93159684	Synchronizer Ring	2	Old Type		●					
20	119.167	1297 304 484	42532487	Synchronizer Ring	2	New Type		●					
21	157.707	1310 304 080	93194779	Synchronizer Hub	1			●					
22	154.135	1310 304 202	42534465	Sliding Sleeve	1			●					
23	160.189	1297 304 436	93156036	Pressure Piece	3			●					
24	156.140	0732 040 409	2967403	Spring D.6,5x23,5	3			●					
25	145.890	1310 304 085	93194778	Gear 3rd Speed 35 T	1		A	●					
25	145.891	1310 304 124	93192442	Gear 3rd Speed 37 T	1		B	●					
26	137.270	0735 321 106		Needle Cage D.80x88x48	1			●					
27	103.195	1311 304 248	93194773	Main Shaft	1			●					
28	137.270	0735 321 106		Needle Cage D.80x88x48	1			●					
29	141.194	1290 306 066	42490421	Bronze Slide	2			●					
30	145.892	1310 304 012	93192431	Gear 2nd Speed 43 T	1			●					
31	109.176	1312 304 106	93156573	Synchronizer Cone	2			●					
32	119.152	1268 304 424	93156454	Intermediate Ring	2			●					
33	119.153	1268 304 494	42534458	Intermediate Cone	2			●					

Notes

Date

07 / 2006

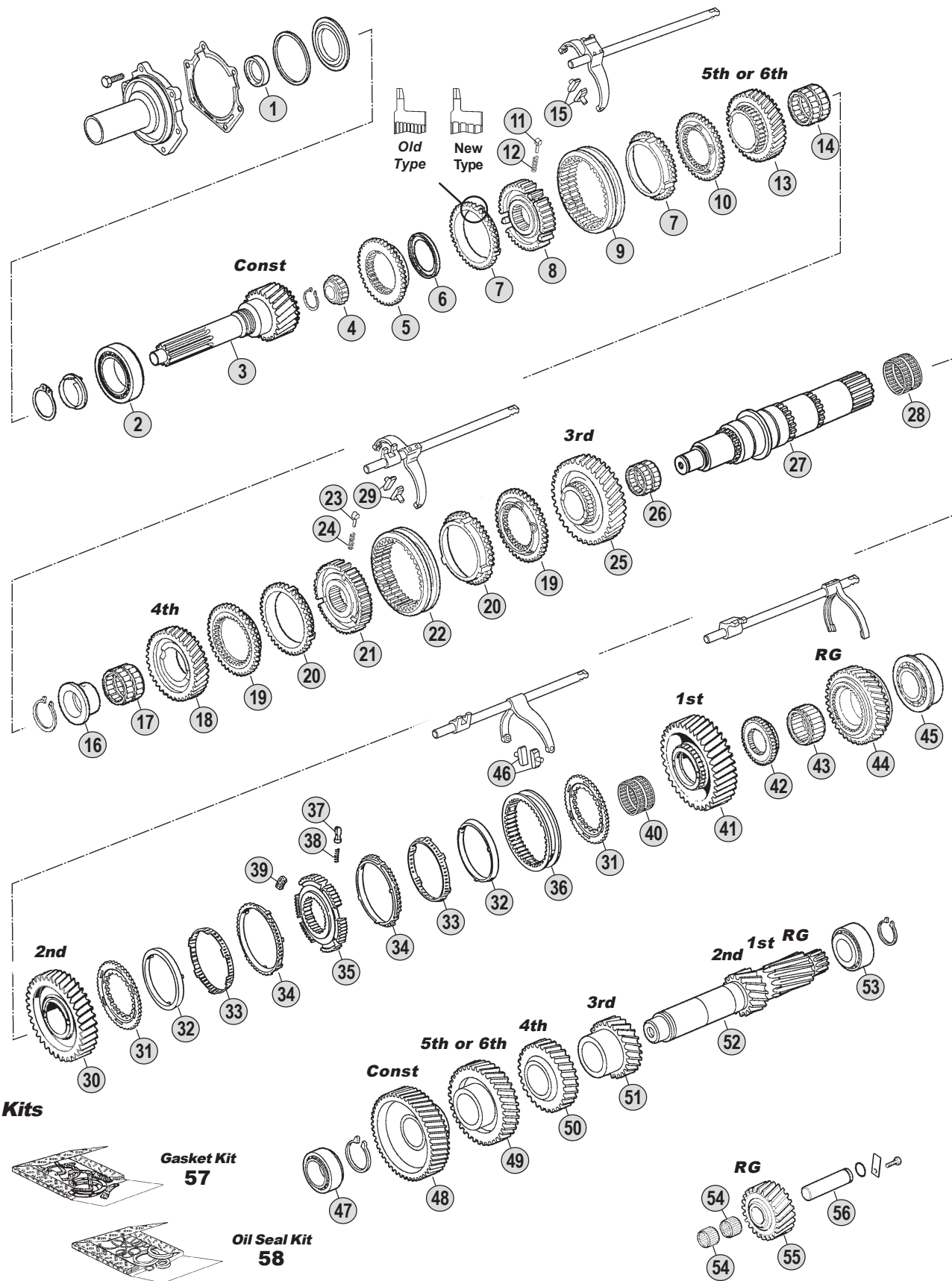
Table

0090

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Suitable To : **ZF**

S6-85



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Ratios

S6-85 A : 6,75 - 0,83 B : 7,72 - 1,00

S6-85 (1310)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	S6-85 (1310)			
		ZF no.	IVECO no.								
34	119.144	1268 304 525	93156456	Synchronizer Ring	2		●				
35	157.708	1310 304 157	93194774	Synchronizer Hub	1		●				
36	154.190	1310 304 175	42532878	Sliding Sleeve	1		●				
37	160.189	1297 304 436	93156036	Pressure Piece	3		●				
38	156.140	0732 040 409	2967403	Spring D.6,5x23,5	3		●				
39	156.176	1312 304 159	42531384	Pad	3		●				
40	137.271	0735 321 108		Needle Cage D.75x83x50	1		●				
41	145.893	1310 304 011	93192438	Gear 1st Speed 50 T	1		●				
42	157.709	1311 304 250	93194776	Synchronizer Hub	1		●				
43	137.272	0735 298 255	1905456	Needle Cage D.70x86x42,5	1		●				
44	147.238	1310 304 200	42535610	Reverse Gear	1		●				
45	130.705	0735 370 730	1905385	Bearing D.60x120x29,7	1		●				
46	141.194	1290 306 066	42490421	Bronze Slide	2		●				
47	130.234	0750 117 083	1905016	Bearing D.50,8x95,2x27,7	1		●				
48	146.600	1310 303 032	93194771	Constant Gear 47 T	1		●	A			
48	146.605	1310 303 044	93192411	Constant Gear 50 T	1		●	B			
49	146.609	1310 303 033	93194770	Gear 6th Speed 45 T	1		●	A			
49	146.610	1310 303 045	93192410	Gear 5th Speed 37 T	1		●	B			
50	146.611	1310 303 051	93194769	Gear 4th Speed 32 T	1		●	A			
50	146.612	1310 303 050	93192409	Gear 4th Speed 29 T	1		●	B			
51	146.613	1310 303 031	93194768	Gear 3rd Speed 24 T	1		●	A			
51	146.614	1310 303 052	93192408	Gear 3rd Speed 24 T	1		●	B			
52	105.191	1310 303 076		Countershaft	1		●				
53	130.233	1246 203 008	42493821	Roller Bearing D.44,45x95,25x28	1		●				
54	137.273	0750 115 233	1905380	Needle Cage D.30x38x30	2		●				
55	147.239	1310 305 003	93192176	Reverse Gear 21 T	1		●				
56	107.201	1310 305 001	93192177	Reverse Pin	1		●				
57	298.039	1310 298 002	93161562	Gasket Kit	1		●				
58	298.040	1310 298 003	93161563	Oil Seals Kit	1		●				

ECOLITE
S6-85

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Notes

Date

07 / 2006

Table

0090

suitable to :

Z.F.

EcoMid

8S180

Application

	6S150C (1304)	8S140 (1304)	8S180 (1304)	9S75 (1308)	9S109 (1304)	16S109 (1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

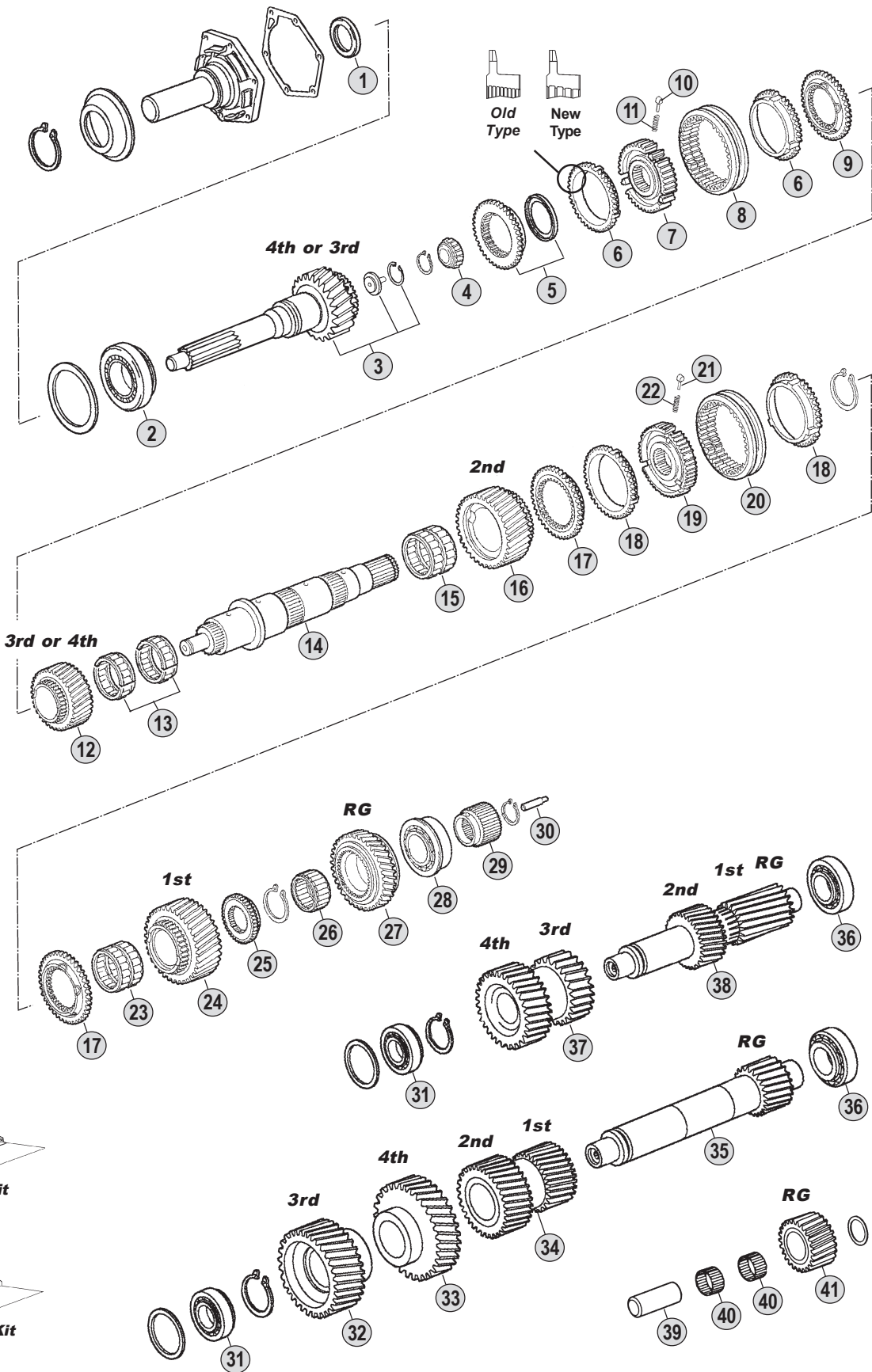
Ratio	Note
6,38-0,76	A
8,73-1,00	B

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ECOMID
8S180

Suitable To : **ZF**

8S180



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Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00



Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					IVECO no.	8S180 (1304)						
1		0734 310 104	42484086	Oil Seal 52x68x8	1		●							
2	130.706	0750 117 518	1905367	Roller Bearing D.71,4x120x32,5	1		●							
3	102.348	1304 202 206	93191232	Input Shaft 29 T	1		●							
3		1304 202 207		Input Shaft 29 T	1		●							
3	102.361	1304 202 208		Input Shaft 29 T	1		●							
3		1304 202 210		Input Shaft 29 T	1		●							
3		1304 202 211		Input Shaft 29 T	1		●							
3	102.349	1304 202 212		Input Shaft 29 T	1		●							
4	137.150	0750 117 232	93156500	Roller Cage D.42x81x40,30	1		●							
5	109.396	1304 202 214	93191286	Synchronizer Cone	1		●							
6	119.219	1311 304 076	93191285	Synchronizer Ring	2	Old Type	●							
6	119.220	1311 304 255	42532603	Synchronizer Ring	2	New Type	●							
7	157.702	1304 304 651	93191283	Synchronizer Hub	1		●							
8	154.363	1304 304 664	93194136	Sliding Sleeve	1		●							
9	109.395	1304 302 425	93191282	Synchronizer Cone	1		●							
10	160.189	1297 304 436	93156036	Pressure Piece	3		●							
11	156.140	0732 040 409	2967403	Spring D.6,5x23,5	3		●							
12	147.233	1304 304 637	93194498	Gear 4th Speed 24 T	1		A	●						
12	147.231	1304 304 636	93191281	Gear 3rd Speed 29 T	1		B	●						
13	137.260	0750 115 430	1905363	Needle Cage 70x78x60	1		●							
14	103.191	1304 304 604	93191267	Main Shaft	1		●							
15	137.259	0735 320 378	42484259	Needle Cage 70x83x55	1		●							
16	145.827	1304 304 582	93194495	Gear 2nd Speed 29 T	1		A	●						
16	145.825	1304 304 581	93191268	Gear 2nd Speed 33 T	1		B	●						
17	109.392	1311 304 015	93191269	Synchronizer Cone	2		●							
18	119.118	1268 304 445	93191272	Synchronizer Ring	2	Old Type	●							
18	119.142	1268 304 594	42532577	Synchronizer Ring	2	New Type	●							
19	157.700	1304 304 576	93191270	Synchronizer Hub	1		●							
20	154.200	1304 304 597	93156811	Sliding Sleeve 1st-2nd Speed	1		●							
21	160.189	1297 304 436	93156036	Pressure Piece	3		●							
22	156.140	0732 040 409	2967403	Spring D.6,5x23,5	3		●							
23	137.260	0750 115 430	1905363	Needle Cage 70x78x60	1		●							
24	147.232	1304 304 587	93194496	Gear 1st Speed 33 T	1		A	●						
24	147.229	1304 304 586	93191278	Gear 1st Speed 38 T	1		B	●						
25	109.172	1304 304 007	8193079	Synchronizer Cone	1		●							
26	137.147	0750 115 225	8193080	Needle Cage D.60x68x39	1		●							
27	147.230	1304 304 672	93194497	Reverse Gear 35 T	1		●							
28	130.684	0735 371 599	1905453	Roller Bearing D.50,8x104,7x36,	1		●							
29	157.701	1304 304 588	93191280	Sun Gear	1		●							
30	188.209	1312 304 150	93193506	Oil Tube	1		●							
31	130.685	0735 371 096	1905366	Roller Bearing D.40x85x33	1		●							
32	146.586	1304 303 294	93194494	Gear 3rd Speed 31 T	1		A	●						
33	147.234	1304 303 293	93194493	Gear 4th Speed 34 T	1		A	●						
34	143.121	1304 303 292	93194492	Double Gear 19/23 T	1		A	●						
35	105.186	1304 303 291	93194491	Countershaft 16 T	1		A	●						

Notes

Date

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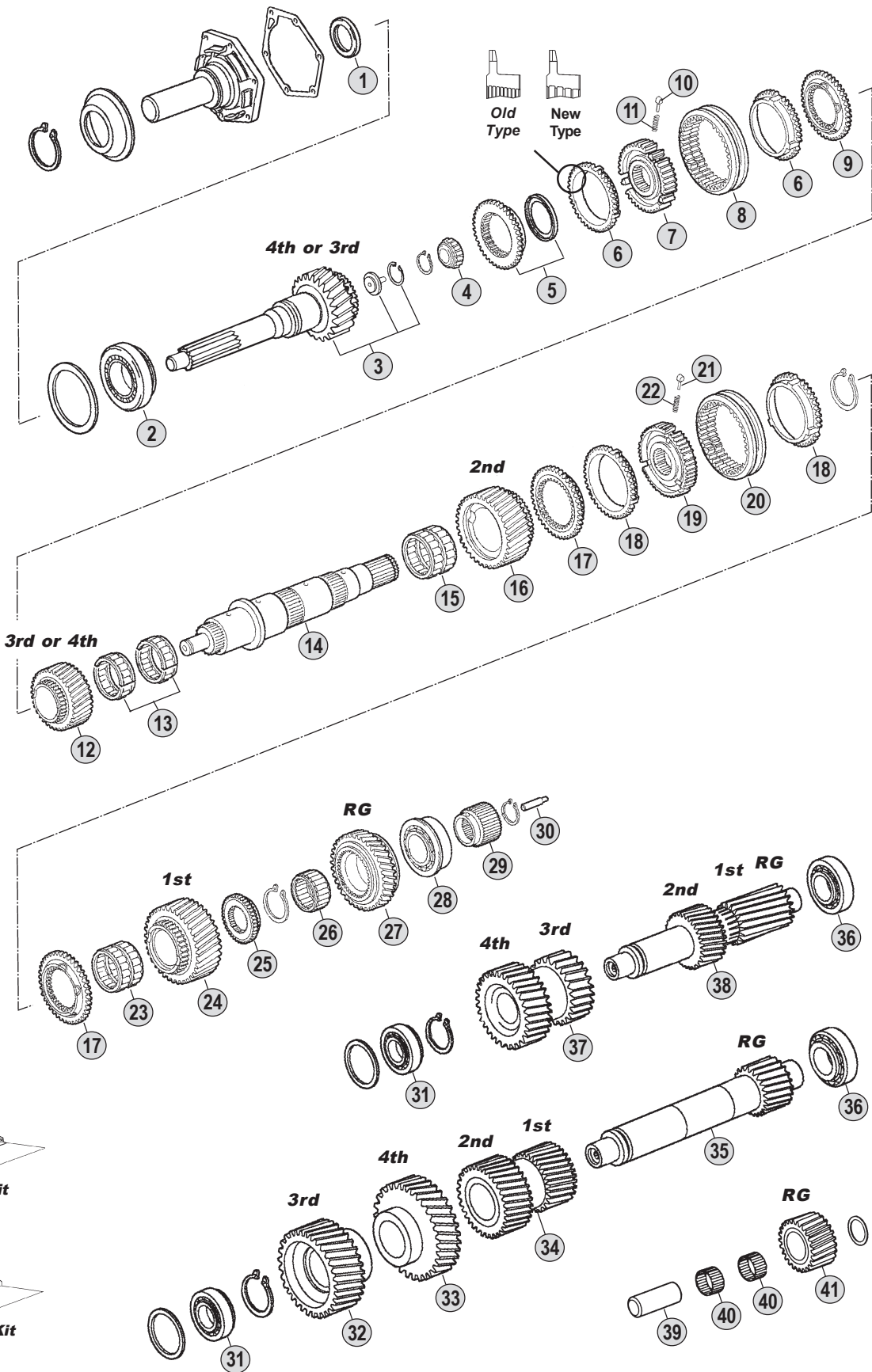
Table

0100 / A

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Suitable To : **ZF**

8S180



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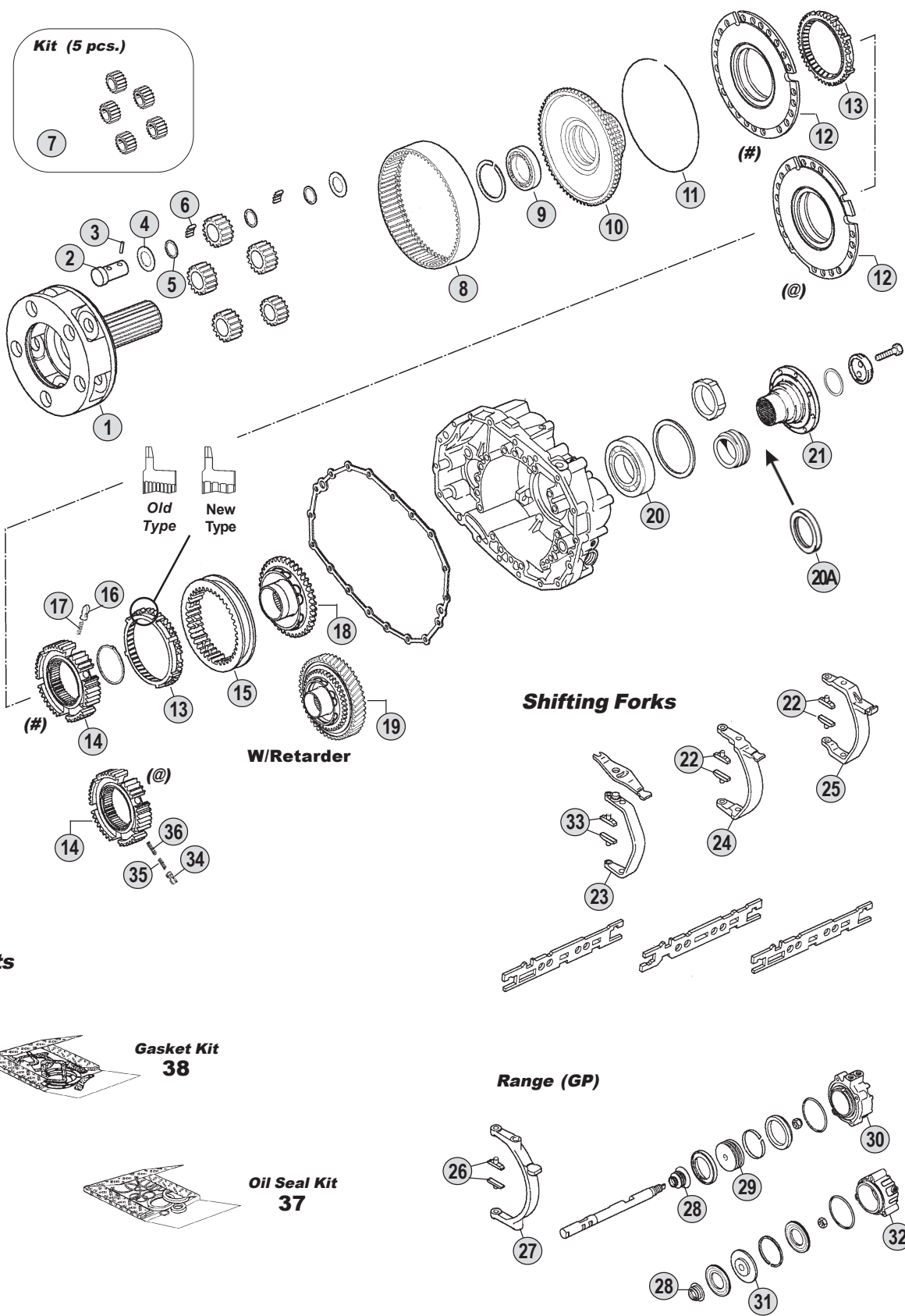
Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00



Suitable To : **ZF**

8S180



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Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00



8S180 (130M)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	IVECO no.											
1	190.388	1304 232 092	93194814	Planetary Carrier	1		●							
2	107.157	1304 332 111	93156862	Planet Pin	5		●							
3	160.239	0631 329 037	93156863	Lock Pin 4x26	5		●							
4	169.396	0501 304 692	42480885	Thrust Washer 1,50	5		●							
5	169.397	0730 103 102	42480886	Spacer Ring 1,50	15		●							
6	171.044	0735 470 115	8193195	Roller D.5x15,30	200		●							
7	298.019	1304 232 051	93191477	Planetary Gear Set	1		●							
8	123.265	1304 332 122	93191479	Crown Gear 117 T	1		●							
9	130.265	0735 340 080	42491977	Bearing D.70x90x10	1		(#)	●						
9	130.310	0750 116 165	42492449	Bearing D.80x110x16	1		(@)	●						
10	150.163	1304 332 071	93191478	Carrier Hub	1		(#)	●						
10		1304 332 210	42471082	Carrier Hub	1		(@)	●						
11	111.175	0730 505 053	42491942	Locking Wire 2,50	1		●							
12	198.817	1304 233 005	93159678	Synchronizer Cone	1		(#)	●						
12	198.796	1304 233 006	42533455	Synchronizer Cone	1		(@)	●						
13	119.157	1304 333 005	8193211	Synchronizer Ring	2	Old Type	(#)	●						
13	119.171	1304 333 021		Synchronizer Ring	2	New Type	(#)	●						
13	119.085	1296 333 022	7982226	Synchronizer Ring	2	Old Type	(@)	●						
13	119.172	1296 333 045	42532826	Synchronizer Ring	2	New Type	(@)	●						
14	157.205	1304 332 066	8193207	Synchronizer Hub	1		(#)	●						
14	157.182	1313 333 001	93163920	Synchronizer Hub	1		(@)	●						
15	154.210	1304 332 089	8193212	Sliding Sleeve	1		(#)	●						
15	154.201	1304 333 011	42533456	Sliding Sleeve	1		(@)	●						
16	160.116	1240 304 278	2960200	Pressure Piece	6		(#)	●						
17	156.037	0732 040 385	8832940	Outer Spring De.6x34	6		(#)	●						
18	109.183	1304 332 075	8193213	Synchronizer Cone	1		(#)	●						
18	109.393	1304 233 013	42533457	Synchronizer Cone	1		(@)	●						
19	109.397	1304 313 133		Synchronizer Cone	1	with retarder	(#)	●						
19	109.173	1304 232 085		Synchronizer Cone	1	with retarder	(@)	●						
20	130.690	0750 116 048	8193180	Roller Bearing D.78x130x25	1		(#)	●						
20		0750 116 197		Bearing D.80x140x26	1		(@)	●						
20A		0734 319 439	93191591	Oil seal D.95x115x10	1		●							
21		1304 338 037		Output Flange	1	D.165-4H.	(#)	●						
21		1304 338 050	93191954	Output Flange	1	D.180-4H.	(#)	●						
21		1304 338 069		Output Flange	1	D.180-4H.	(#)	●						
21		1304 338 035		Output Flange	1	D.180-8H.	(#)	●						
21		1304 338 097	42533448	Output Flange	1	D.180-4H.	(@)	●						
22	141.194	1290 306 066	42490421	Bronze Slide	2		●							
23		1304 306 103	93194560	Fork	1		A	●						
23		1304 306 102	93191298	Fork	1		B	●						
24		1304 306 009	93156821	Fork	1		●							
24		1304 306 043	8193123	Fork	1		●							
25		1304 306 011	8193124	Fork	1		●							
26	141.061	1272 334 003	2984439	Bronze Slide	2		●							
27		1304 334 039	8193220	Fork	1		(#)	●						

Notes

- @) Different versions.To be coupled together. DO NO MIX

Date

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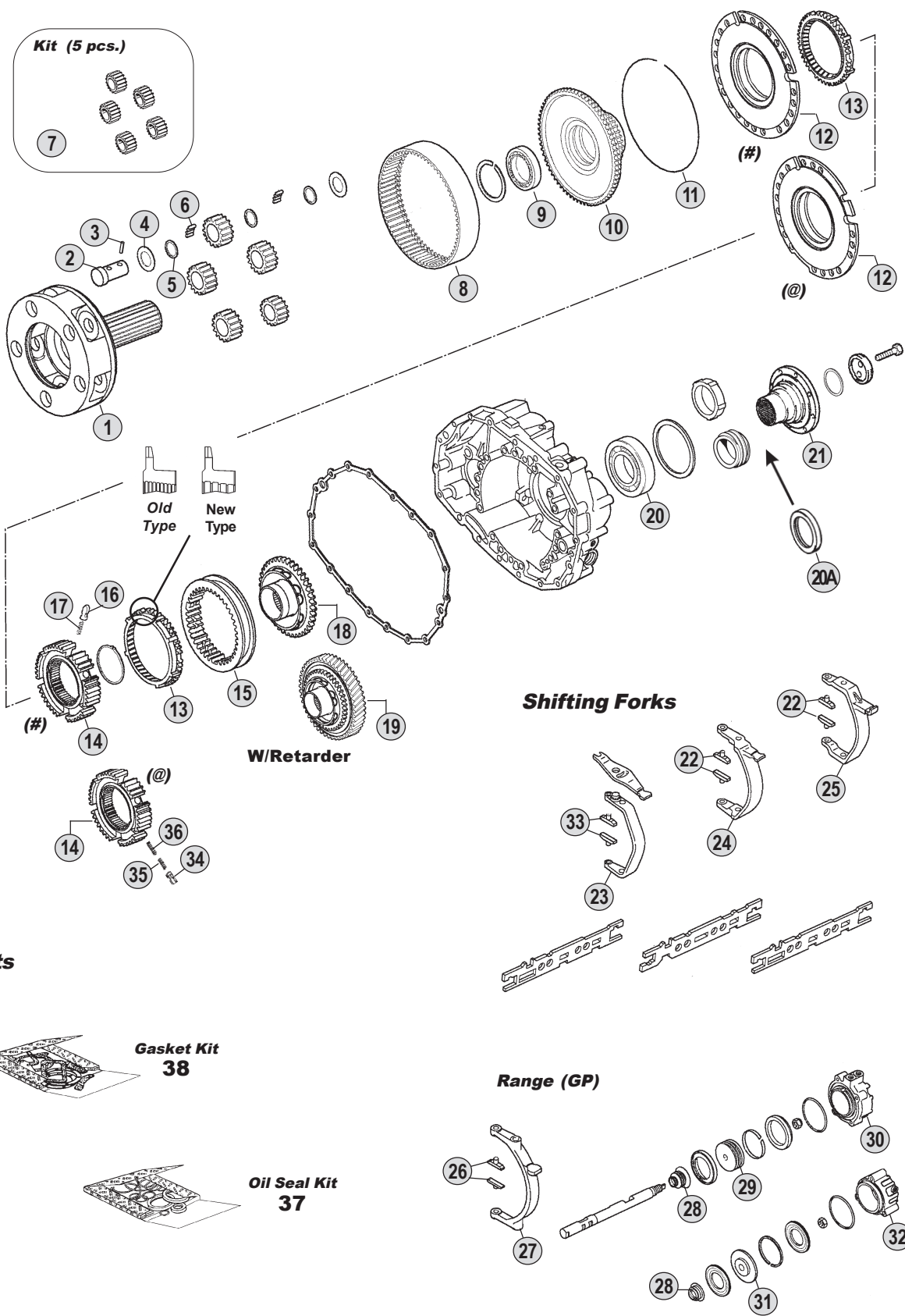
Table

0100 / B

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Suitable To : **ZF**

8S180



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Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00



suitable to :

Z.F.

EcoMid

9S109

Application

	6S150C (1304)	8S140 (1304)	8S180 (1304)	9S75 (1308)	9S109 (1304)	16S109 (1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

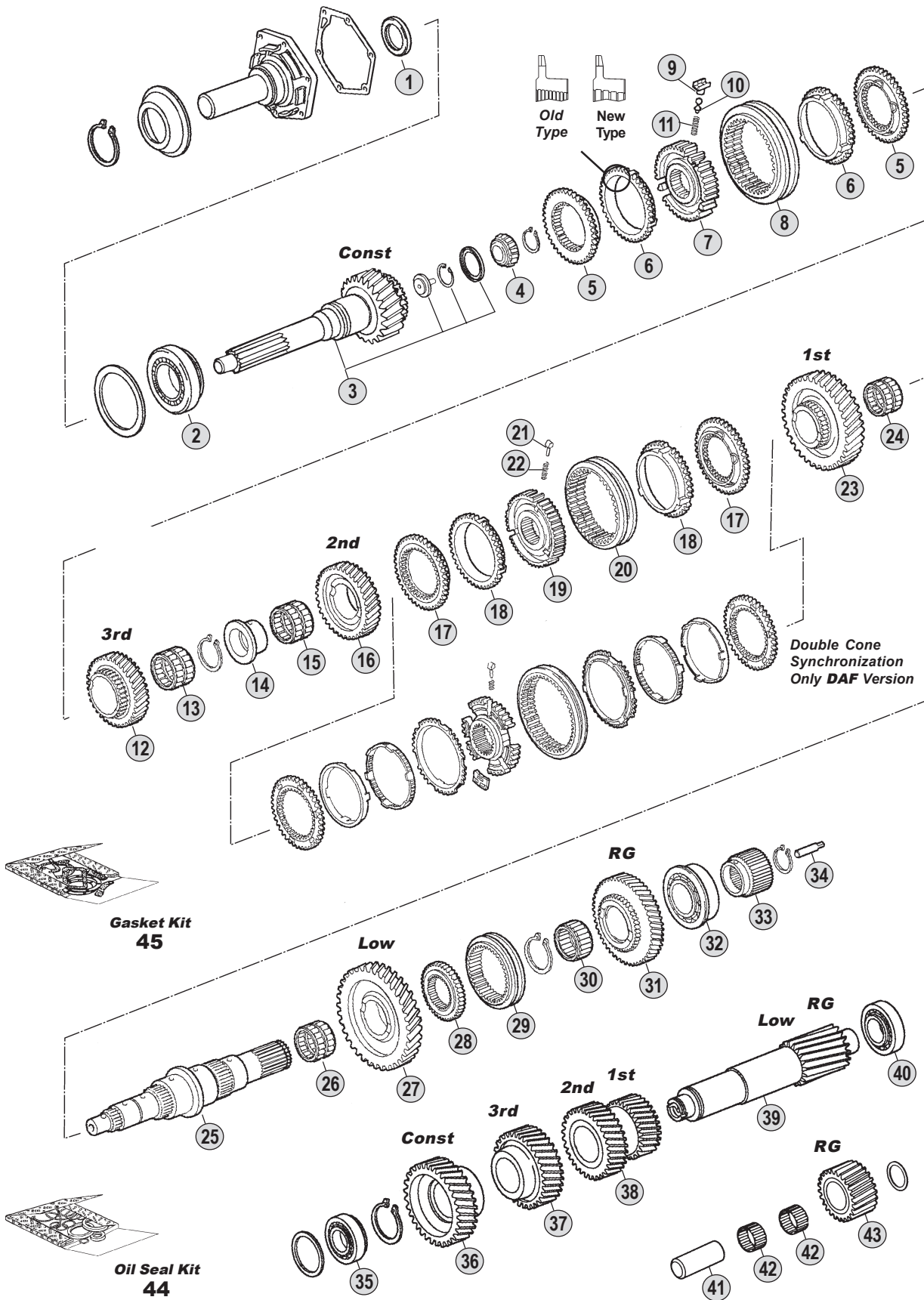
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9S109

Ratios

Ratio	Note
10,24-0,74	A
10,25-0,79	B
12,91-1,00	C
12,92-1,00	D

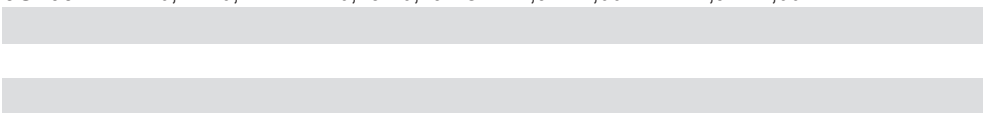
Suitable To : **ZF**

9S109



Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	IVECO no.					9S109						
1	139.753	0750 111 149	8193659	Oil Seal D.48x65x10	1		●							
2	130.313	0750 117 079	8190987	Bearing D.66,6x117,4x30,1	1		●							
3	102.354	1304 202 170		Input Shaft 27 T	1		AB ●							
3	102.352	1304 202 171	500001707	Input Shaft 27 T	1		AB ●							
3	102.356	1304 202 172		Input Shaft 27 T	1		AB ●							
3	102.358	1304 202 173		Input Shaft 27 T	1		AB ●							
3	102.351	1304 202 180		Input Shaft 27 T	1		AB ●							
3	102.355	1304 202 245		Input Shaft 27 T	1		AB ●							
3	102.357	1304 202 168	42530600	Input Shaft 26 T	1		CD ●							
3	102.353	1304 202 175		Input Shaft 26 T	1		CD ●							
3	102.347	1304 202 177		Input Shaft 26 T	1		CD ●							
3	102.350	1304 202 178	42532859	Input Shaft 26 T	1		CD ●							
4	130.683	0735 371 748	500002656	Needle Bearing D.32x29,5	1		●							
5	109.391	1304 304 660	93193716	Synchronizer Cone	2		●							
6	119.150	1304 304 014	8193098	Synchronizer Ring	2	Old Type	●							
6	119.169	1304 304 683	42532850	Synchronizer Ring	2	New Type	●							
7	157.697	1304 304 051	8193758	Synchronizer Hub	1		●							
8	154.361	6002 305 515	93156815	Sliding Sleeve	1		●							
9	188.096	1238 304 394	2965054	Pressure Piece	3		●							
10	160.143	1249 304 222	2965053	Plunger	3		●							
11	156.140	0732 040 409	2967403	Spring D.6,5x23,5	3		●							
12	145.832	1304 304 472	220998	Gear 3rd Speed 23 T	1		A ●							
12	145.839	1304 304 365	172279	Gear 3rd Speed 24 T	1		B ●							
12	145.836	1304 304 571	93191953	Gear 3rd Speed 27 T	1		C ●							
12	145.824	1304 304 500	8199058	Gear 3rd Speed 25 T	1		D ●							
13	137.258	0735 321 011	176581	Needle Cage 60x68x23	1		●							
14	117.377	1304 304 050	8193746	Bush	1		●							
15	137.074	0750 115 227	8193753	Needle Bearing D.75x83x40	1		●							
16	145.831	1304 304 367		Gear 2nd Speed 31 T	1		AB ●							
16	145.835	1304 304 570	93191952	Gear 2nd Speed 30 T	1		C ●							
16	145.823	1304 304 499	93155554	Gear 2nd Speed 29 T	1		D ●							
17	109.171	1304 304 408	8193069	Synchronizer Cone	2		●							
18	119.151	1304 304 542	93156812	Synchronizer Ring	2	Old Type	●							
18	119.170	1304 304 681	42532851	Synchronizer Ring	2	New Type	●							
19	157.696	1304 304 591	42532852	Synchronizer Hub	1		●							
20	154.200	1304 304 597	93156811	Sliding Sleeve 1st-2nd Speed	1		●							
21	160.189	1297 304 436	93156036	Pressure Piece	3		●							
22	156.140	0732 040 409	2967403	Spring D.6,5x23,5	3		●							
23	145.830	1304 304 471	93158474	Gear 1st Speed	1		A ●							
23	145.840	1304 304 369		Gear 1st Speed 33 T	1		B ●							
23	145.834	1304 304 569	93191951	Gear 1st Speed 33 T	1		C ●							
23	147.227	1304 304 498	8194253	Gear 1st Speed 33 T	1		D ●							
24	137.142	0735 320 816	8193024	Needle Cage D.75x83x23	1		●							
25	103.190	1304 304 449	8193738	Main Shaft	1		●							
26	137.257	0735 320 500	42490368	Needle Cage D.75x83x35	1		●							

Notes

Date

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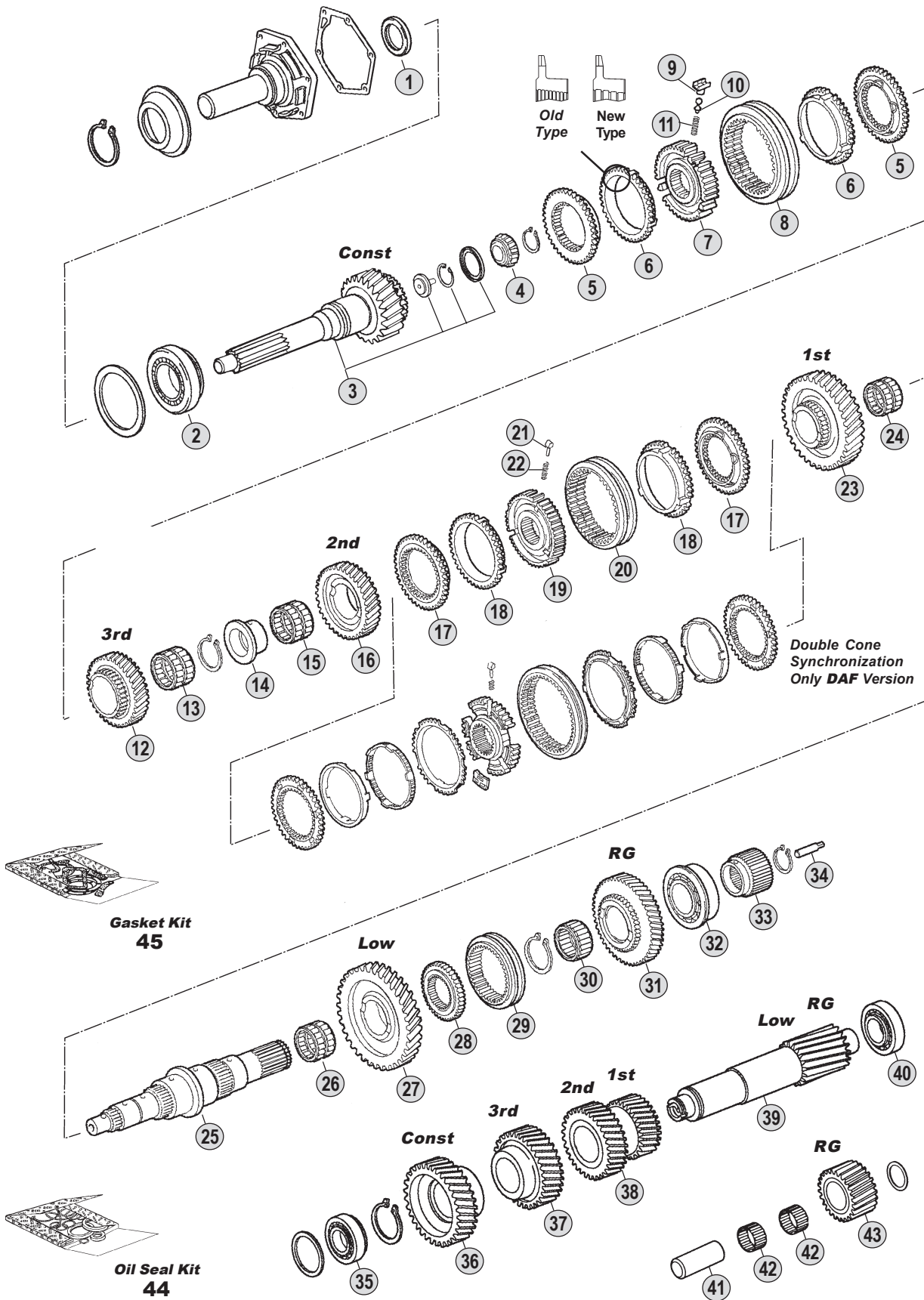
Table

0110 / A

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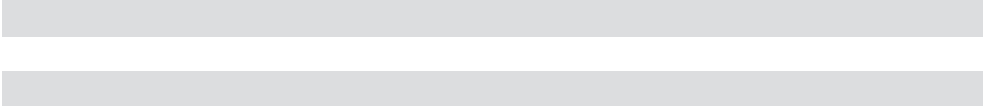
Suitable To : **ZF**

9S109



Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00



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9S109 (1304)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.										
27	145.829	1304 304 428				AB	●					
27	145.833	1304 304 543	93191949			C	●					
27	145.828	1304 304 426	8193739			D	●					
28	157.698	1304 304 443	8193740				●					
29	154.362	1304 304 444	8193741				●					
30	137.147	0750 115 225	8193080				●					
31	147.235	1304 304 437				AB	●					
31	147.236	1304 304 553	93191950			C	●					
31	147.226	1304 304 435	8193742			D	●					
32	130.315	0735 371 605	1905484				●					
33	157.699	1304 304 448	8193743				●					
34	188.209	1312 304 150	93193506				●					
35	130.314	0735 371 749	1903646				●					
36	146.588	1304 303 285	176567			AB	●					
36	146.584	1304 303 272	93156805			CD	●					
37	146.587	1304 303 210	220997			A	●					
37	146.590	1304 303 171				B	●					
37	146.589	1304 303 287	93191948			C	●					
37	147.228	1304 303 244	93155086			D	●					
38	143.122	1304 303 209				A	●					
38	143.125	1304 303 172				B	●					
38	143.123	1304 303 286	93191947			C	●					
38	143.119	1304 303 243	93156804			D	●					
39	105.187	1304 303 269	176566			AB	●					
39	105.188	1304 303 268	93191946			C	●					
39	105.184	1304 303 267	93156803			D	●					
40	130.234	0750 117 083	1905016				●					
41	107.156	1304 305 030	8190979				●					
42	137.143	0735 358 192	8193725				●					
43		1304 305 043	93191231			AB	●					
43		1304 305 045	42532875			C	●					
43		1304 305 044				D	●					
44	298.026	1304 298 908	93161005				●					
45	198.945	1304 298 914	93163825				●					

ECOMID
9S109

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Notes

Date

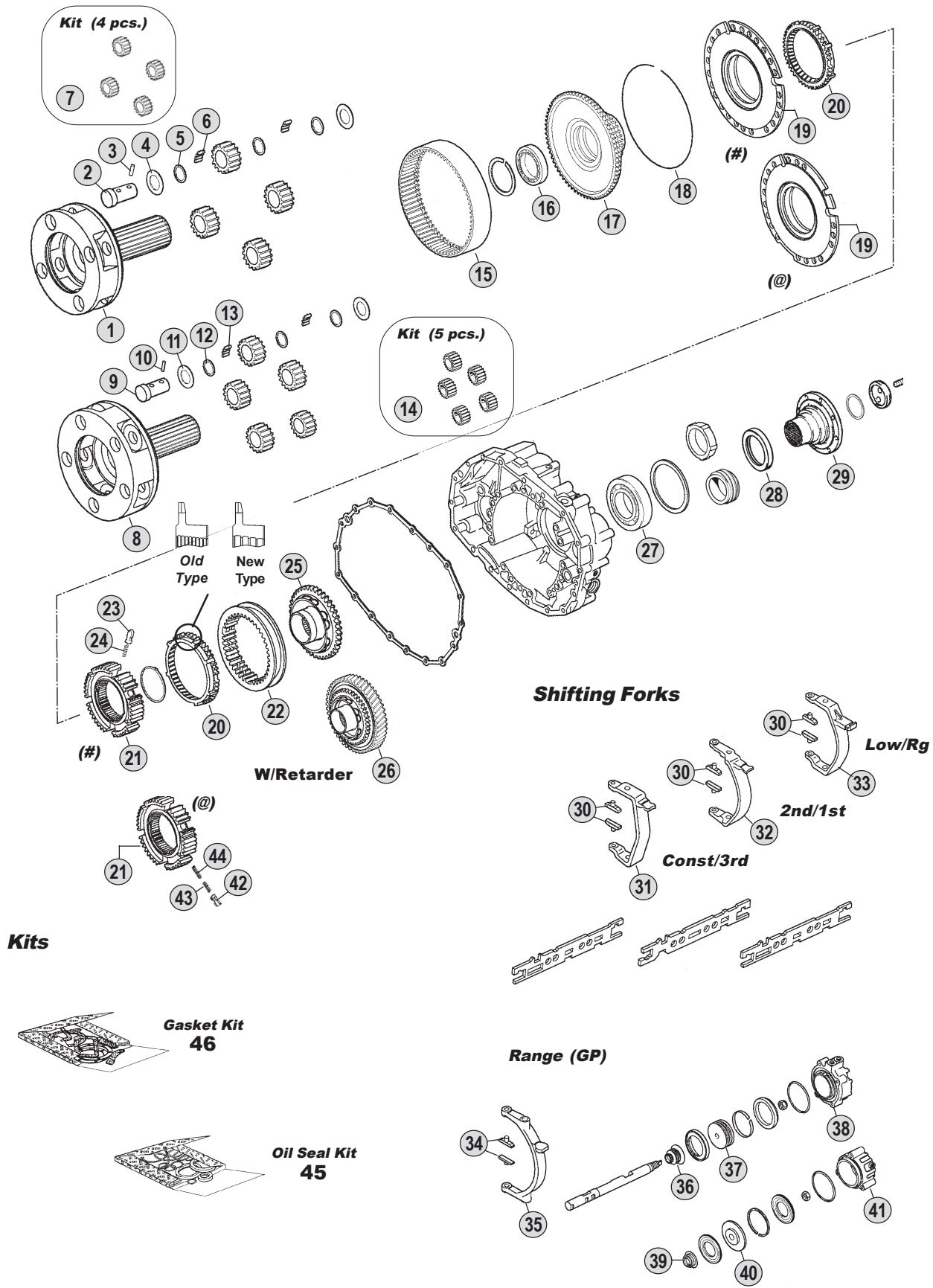
07 / 2006

Table

0110 / A

Suitable To : **ZF**

9S109



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Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00



9S109 (1304)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	9S109 (1304)						
		ZF no.	IVECO no.											
1	190.391	1304 232 095	222576	Planetary Carrier	1	(1)	●							
2	107.157	1304 332 111	93156862	Planet Pin	4	(1)	●							
3	160.239	0631 329 037	93156863	Lock Pin 4x26	4	(1)	●							
4	169.396	0501 304 692	42480885	Thrust Washer 1,50	8	(1)	●							
5	169.397	0730 103 102	42480886	Spacer Ring 1,50	12	(1)	●							
6	171.044	0735 470 115	8193195	Roller D.5x15,30	160	(1)	●							
7	298.023	1304 232 037	176626	Planetary Gear Set	1	(1)	●							
8	190.387	1304 232 091	42532844	Planetary Carrier	1	(2)	●							
9	107.157	1304 332 111	93156862	Planet Pin	5	(2)	●							
10	160.239	0631 329 037	93156863	Lock Pin 4x26	5	(2)	●							
11	169.396	0501 304 692	42480885	Thrust Washer 1,50	10	(2)	●							
12	169.397	0730 103 102	42480886	Spacer Ring 1,50	15	(2)	●							
13	171.044	0735 470 115	8193195	Roller D.5x15,30	200	(2)	●							
14	298.018	1304 232 025	8193780	Planetary Gear Set	1	(2)	●							
15	123.210	1304 332 178	93191520	Crown Gear 86 T	1		●							
16	130.265	0735 340 080	42491977	Bearing D.70x90x10	1		(#)	●						
16	130.310	0750 116 165	42492449	Bearing D.80x110x16	1		(@)	●						
17	150.141	1304 332 060	8193198	Carrier Hub 86 T	1		(#)	●						
17	150.135	1304 332 215		Carrier Hub 86 T	1		(@)	●						
18	111.264	0730 505 140	93191521	Locking Wire	1		●							
19	198.817	1304 233 005	93159678	Synchronizer Cone	1		(#)	●						
19	198.796	1304 233 006	42533455	Synchronizer Cone	1		(@)	●						
20	119.157	1304 333 005	8193211	Synchronizer Ring	2	Old Type	(#)	●						
20	119.171	1304 333 021		Synchronizer Ring	2	New Type	(#)	●						
20	119.085	1296 333 022	7982226	Synchronizer Ring	2	Old Type	(@)	●						
20	119.172	1296 333 045	42532826	Synchronizer Ring	2	New Type	(@)	●						
21	157.205	1304 332 066	8193207	Synchronizer Hub	1		(#)	●						
21	157.182	1313 333 001	93163920	Synchronizer Hub	1		(@)	●						
22	154.210	1304 332 089	8193212	Sliding Sleeve	1		(#)	●						
22	154.201	1304 333 011	42533456	Sliding Sleeve	1		(@)	●						
23	160.116	1240 304 278	2960200	Pressure Piece	6		(#)	●						
24	156.037	0732 040 385	8832940	Outer Spring De.6x34	6		(#)	●						
25	109.183	1304 332 075	8193213	Synchronizer Cone	1		(#)	●						
25	109.393	1304 233 013	42533457	Synchronizer Cone	1		(@)	●						
26	109.173	1304 232 085		Synchronizer Cone	1	with ret.	(@)	●						
27	130.690	0750 116 048	8193180	Roller Bearing D.78x130x25	1		(#)	●						
27		0750 116 197		Bearing D.80x140x26	1		(@)	●						
28		0734 319 439	93191591	Oil seal D.95x115x10	1		●							
29		1304 338 059		Output Flange	1	D.150-4H.	(#)	●						
29		1304 338 060		Output Flange	1	D.180-4H.	(#)	●						
29		1304 338 050	93191954	Output Flange	1	D.180-4H.	(#)	●						
29		1304 338 053		Output Flange	1	D.180-8H.	(#)	●						
29		1304 338 052	93156865	Output Flange	1	D.180-10H.	(#)	●						
29		1304 338 067		Output Flange	1	D.204-4H.	(#)	●						
29		1304 338 056		Output Flange	1	D.204-4H.	(#)	●						

Notes

- (1) Version with 4 planet pinions .To be coupled together. **DO NO MIX** the qty
 (2) Version with 5 planet pinions .To be coupled together. **DO NO MIX** the qty
 (# - @) Different versions.To be coupled together. **DO NO MIX**

Date

07 / 2006

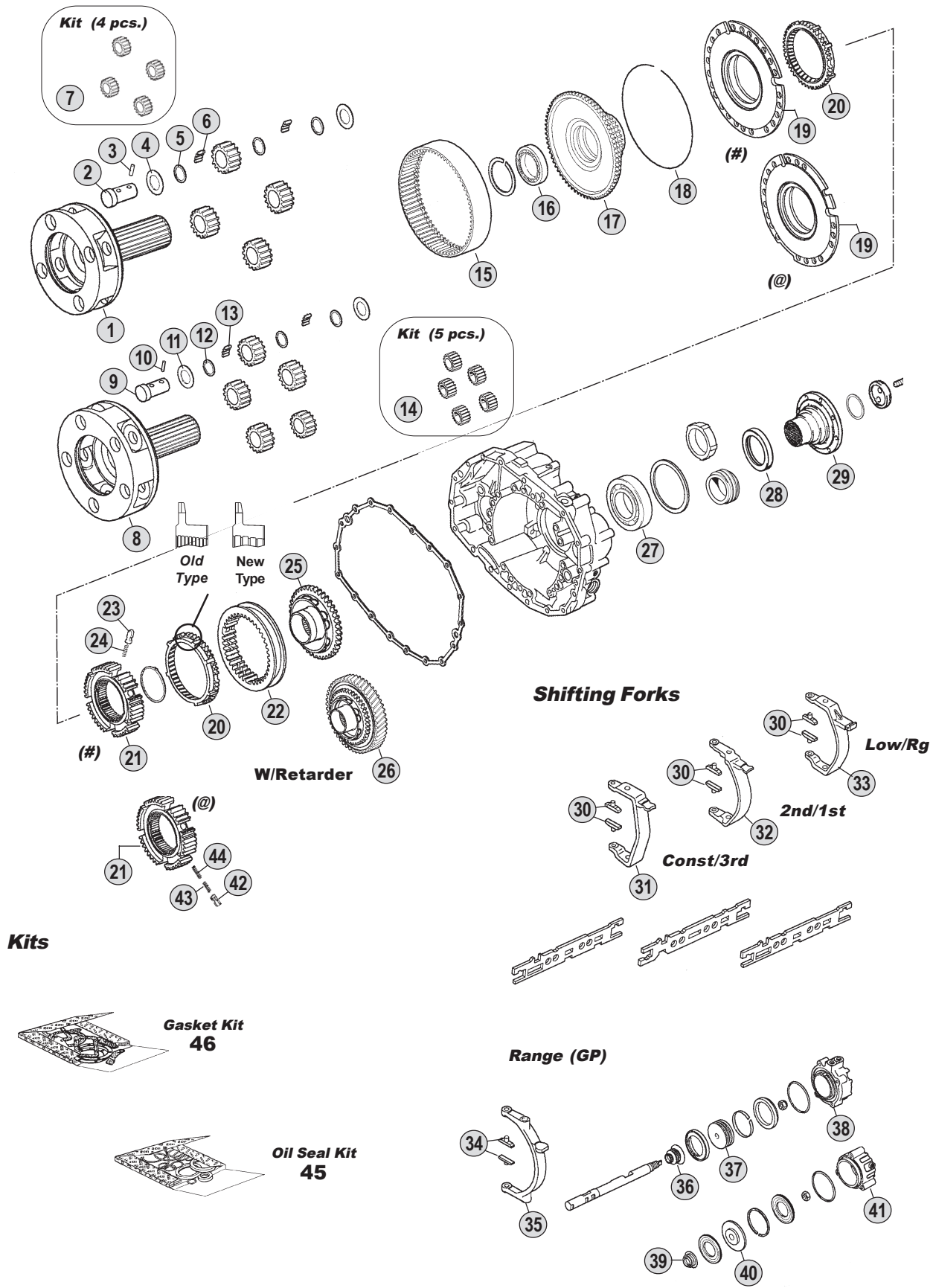
Table

0110 / B

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Suitable To : **ZF**

9S109



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Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00



Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.									
29		1304 338 109		Output Flange	1	D.180-4H.	(@)	●			
29		1304 338 097	42533448	Output Flange	1	D.180-4H.	(@)	●			
30	141.194	1290 306 066	42490421	Bronze Slide	2			●			
31		1304 306 010	93156818	Fork	1			●			
31		1304 306 044	8193121	Fork	1			●			
31		1304 306 096		Fork	1			●			
32		1304 306 043	8193123	Fork	1			●			
32		1304 306 009	93156821	Fork	1			●			
33		1304 306 077	8193762	Fork	1			●			
34	141.061	1272 334 003	2984439	Bronze Slide	2			●			
35		1304 334 039	8193220	Fork	1		(#)	●			
35		1304 334 063	42533429	Fork	1		(@)	●			
36		0750 112 047	8193161	Oil seal	1		(#)	●			
37		1304 334 072	93194812	Piston	1		(#)	●			
38		1304 334 061	93190978	Cylinder	1		(#)	●			
39		0750 112 047	8193161	Oil seal	1		(@)	●			
40		1315 334 041	42533425	Piston	1		(@)	●			
41		1304 334 079	42533427	Cylinder	1		(@)	●			
42	160.116	1240 304 278	2960200	Pressure Piece	9		(@)	●			
43	156.037	0732 040 385	8832940	Outer Spring De.6x34	9		(@)	●			
44	156.036	0732 040 386	9931785	Inner Spring De.3x34	9		(@)	●			
45	298.026	1304 298 908	93161005	Oil Seal Kit	1			●			
46	198.945	1304 298 914	93163825	Gasket Kit	1			●			

ECOMID
9S109

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Notes

- (1) Version with 4 planet pinions .To be coupled together. **DO NO MIX** the qty
 (2) Version with 5 planet pinions .To be coupled together. **DO NO MIX** the qty
 (# - @) Different versions.To be coupled together. **DO NO MIX**

Date

07 / 2006

Table

0110 / B

suitable to :

Z.F.

EcoMid

16S109

Application

	6S150C (1304)	8S140 (1304)	8S180 (1304)	9S75 (1308)	9S109 (1304)	16S109 (1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

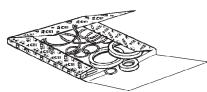
Ratios

Ratio	Note
13,30-1,00	A
13,31-1,00	B
13,41-1,00	C
13,42-1,00	D
13,53-0,82	E

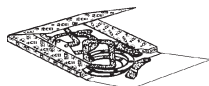
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16S109

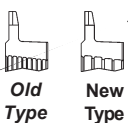
Kits



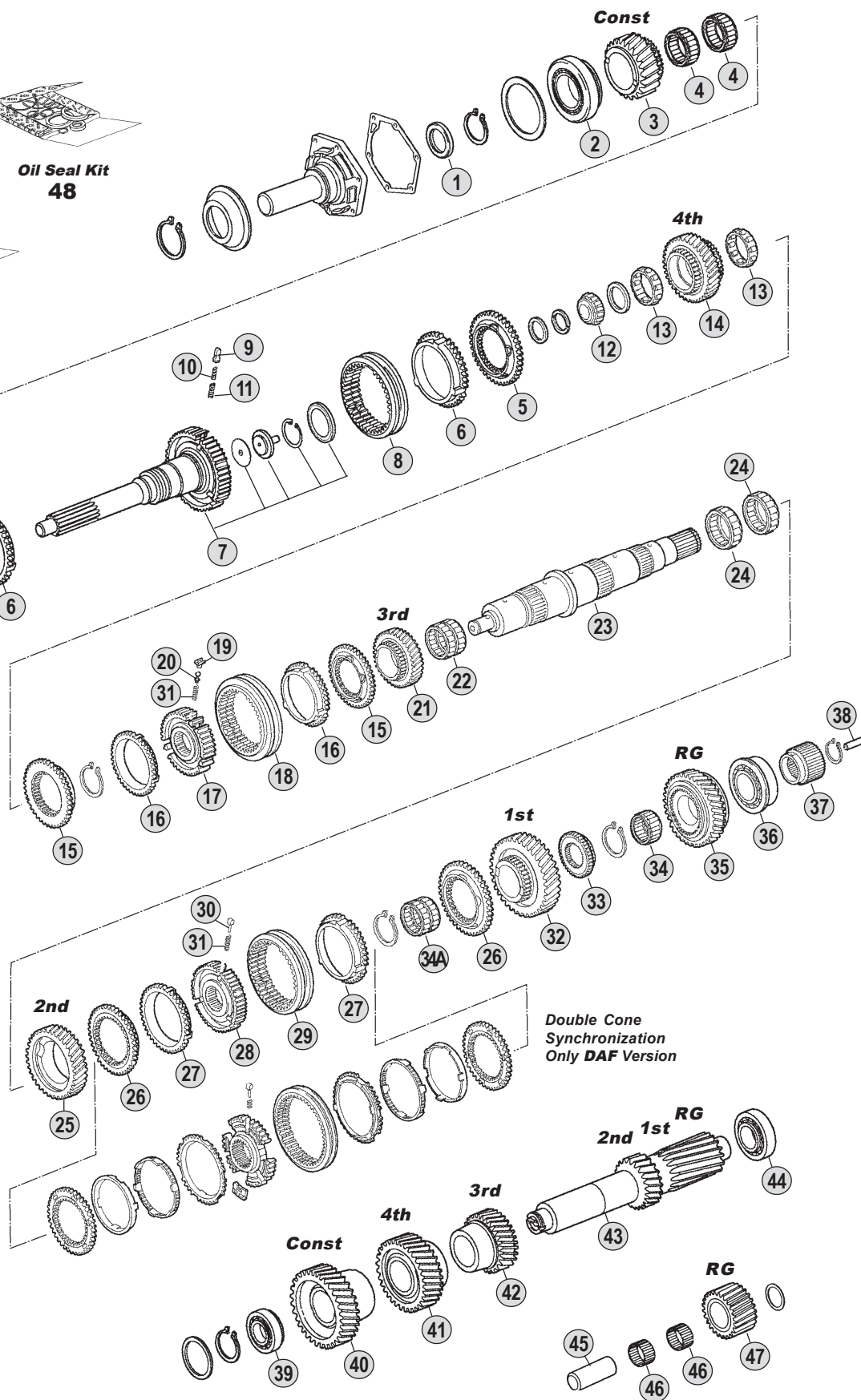
**Oil Seal Kit
48**



**Gasket Kit
49**



**Old Type
New Type**



Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	IVECO no.								
1	139.753	0750 111 149	8193659	Oil Seal D.48x65x10	1		●				
2	130.313	0750 117 079	8190987	Bearing D.66,6x117,4x30,1	1		●				
3	145.478	1304 302 169	8193023	Constant Gear	1		ABCD	●			
3	145.516	1304 302 150	93163273	Constant Gear 30 T	1		E	●			
4	137.142	0735 320 816	8193024	Needle Cage D.75x83x23	2		●				
5	109.169	1304 302 188	93159654	Synchronizer Cone	2		●				
6	119.149	1304 304 496	93159655	Synchronizer Ring	2	Old Type	●				
6	119.173	1304 304 680	42533432	Synchronizer Ring	2	New Type	●				
7	190.311	1304 202 201		Input Shaft	1		●				
7	190.312	1304 202 202	93163272	Input Shaft	1		●				
7	190.298	1304 202 203	93190612	Input Shaft	1		●				
8	154.064	1240 304 272	2961524	Sliding Sleeve	1		●				
9	160.116	1240 304 278	2960200	Pressure Piece	3		●				
10	156.036	0732 040 386	9931785	Inner Spring De.3x34	3		●				
11	156.037	0732 040 385	8832940	Outer Spring De.6x34	3		●				
12	137.144	0735 371 406	1905407	Roller Cage D.32x33	1		●				
13	137.145	0750 115 299	1905233	Needle Cage D.59,5x81,5x22	2		●				
14	146.397	1304 304 516	93159664	Gear 4th Speed	1		ABCD	●			
14	146.439	1304 304 518		Gear 4th Speed 27 T	1		E	●			
15	109.170	1304 304 012	8193095	Synchronizer Cone	2		●				
16	119.150	1304 304 014	8193098	Synchronizer Ring	2	Old Type	●				
16	119.169	1304 304 683	42532850	Synchronizer Ring	2	New Type	●				
17	157.186	1304 304 515	93159662	Synchronizer Hub	1		●				
18	154.199	1304 304 688	93159663	Sliding Sleeve	1		●				
19	188.096	1238 304 394	2965054	Pressure Piece	3		●				
20	160.143	1249 304 222	2965053	Plunger	3		●				
21	145.479	1304 304 475	8193669	Gear 3rd Speed	1		ABCD	●			
21	145.518	1304 304 417	93163283	Gear 3rd Speed	1		E	●			
22	137.142	0735 320 816	8193024	Needle Cage D.75x83x23	1		●				
23	103.129	1304 304 630	93192735	Main Shaft	1		●				
24	137.142	0735 320 816	8193024	Needle Cage D.75x83x23	2		●				
25	145.480	1304 304 497	8198906	Gear 2nd Speed 32 T	1		ABCD	●			
25	145.519	1304 304 422	93163278	Gear 2nd Speed	1		E	●			
26	109.171	1304 304 408	8193069	Synchronizer Cone	2		●				
27	119.151	1304 304 542	93156812	Synchronizer Ring	2	Old Type	●				
27	119.170	1304 304 681	42532851	Synchronizer Ring	2	New Type	●				
28	157.187	1304 304 653	93194271	Guide Sleeve 1st-2nd Speed	1		●				
29	154.200	1304 304 597	93156811	Sliding Sleeve 1st-2nd Speed	1		●				
30	160.189	1297 304 436	93156036	Pressure Piece	3		●				
31	156.140	0732 040 409	2967403	Spring D.6,5x23,5	3		●				
32	145.533	1304 304 358	8193078	Gear 1st Speed 37 T	1		AD	●			
32	145.481	1304 304 549	93192736	Gear 1st Speed 37 T	1		BC	●			
32	145.520	1304 304 376	93163279	Gear 1st Speed 38 T	1		E	●			
33	109.172	1304 304 007	8193079	Synchronizer Cone	1		●				
34	137.147	0750 115 225	8193080	Needle Cage D.60x68x39	1		●				

Notes

Date

07 / 2006

Table

0120 / A

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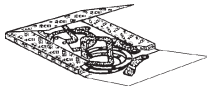
Suitable To : **ZF**

16S109

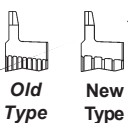
Kits



Oil Seal Kit 48

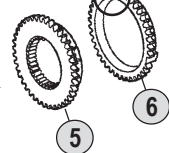


Gasket Kit 49



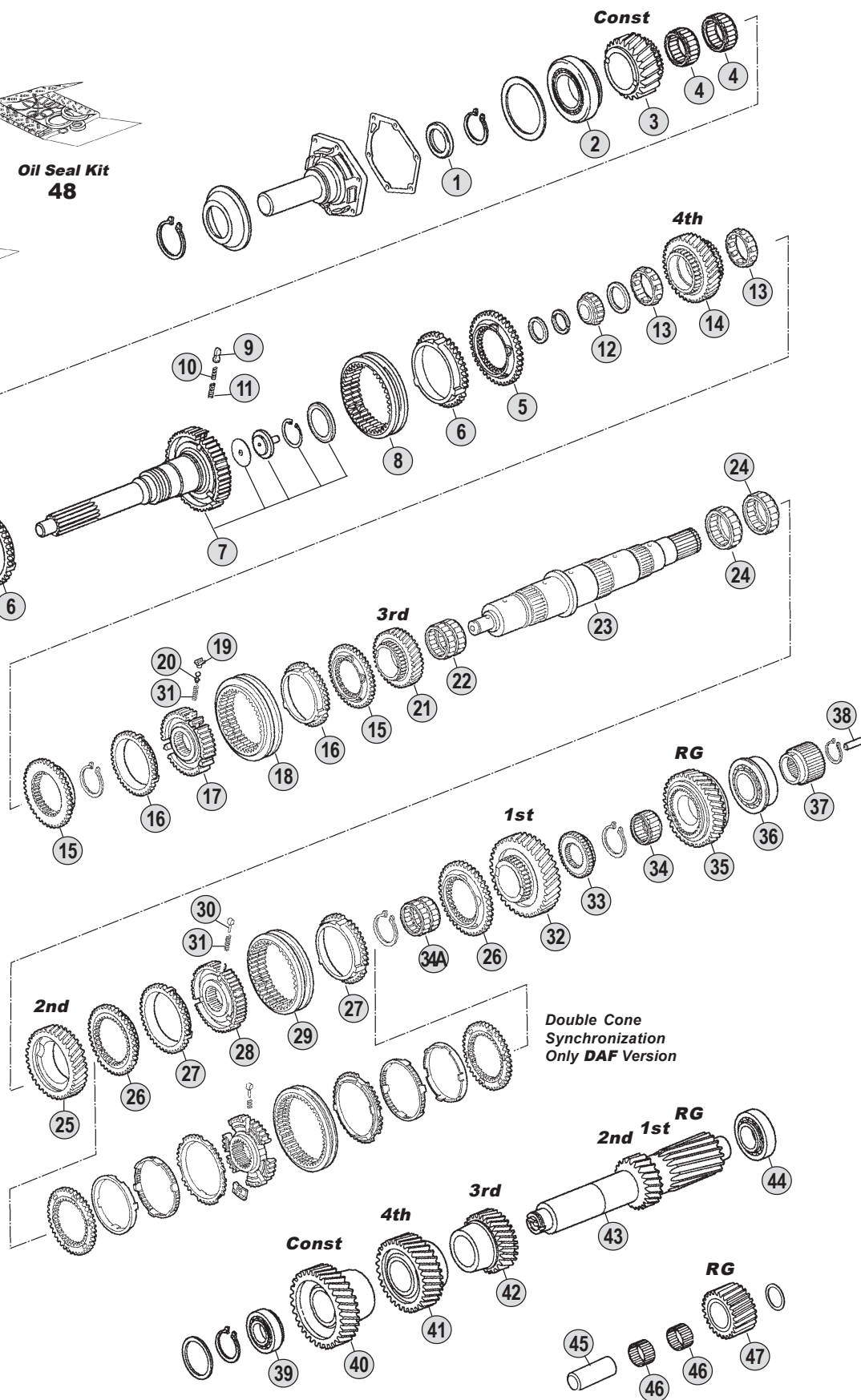
Old Type

New Type



5

6



Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio	●					
	CEI no.	ZF no.										
34A	137.146	0750 115 224	8193077	Needle Cage D.70x78x50	1		●					
35	147.146	1304 304 669	42532320	Reverse Gear 32 T	1	AD	●					
35	147.131	1304 304 671	42531749	Reverse Gear 35 T	1	BC	●					
35	147.149	1304 304 670		Reverse Gear 35 T	1	E	●					
36	130.315	0735 371 605	1905484	Bearing D.50,8x104,7x30,1	1		●					
37	157.188	1304 304 261	8193083	Sun Gear 29 T	1	AB	●					
37	157.703	1304 304 608	42533433	Sun Gear 30 T	1	CD	●					
37	157.201	1304 304 199	93163281	Sun Gear 21 T	1	E	●					
38	188.209	1312 304 150	93193506	Oil Tube	1		●					
39	130.314	0735 371 749	1903646	Bearing D.40x80x32	1		●					
40	146.394	1304 303 273	93159657	Constant Gear	1	ABCD	●					
40	146.434	1304 303 283	93163277	Constant Gear 31 T	1	E	●					
41	146.395	1304 303 212	8194429	Gear 4th Speed	1	ABCD	●					
41	146.436	1304 303 175	93163276	Gear 4th Speed 34 T	1	E	●					
42	146.396	1304 303 214	8193670	Gear 3rd Speed	1	ABCD	●					
42	146.438	1304 303 192	93163275	Gear 3rd Speed	1	E	●					
43	105.115	1304 303 276	93159656	Countershaft	1	AD	●					
43	105.099	1304 303 277	93192734	Countershaft 14 T	1	BC	●					
43	105.111	1304 303 279	93163274	Countershaft	1	E	●					
44	130.234	0750 117 083	1905016	Bearing D.50,8x95,2x27,7	1		●					
45	107.156	1304 305 030	8190979	Reverse Shaft	1		●					
46	137.143	0735 358 192	8193725	Needle Cage D.40x60x26	2		●					
47	147.150	1304 305 039	93159645	Reverse Gear 22 T	1	AD	●					
47	147.130	1304 305 040	93192732	Reverse Gear 21 T	1	BC	●					
47	147.145	1304 305 041	93163271	Reverse Gear 22 T	1	E	●					
48	298.026	1304 298 908	93161005	Oil Seal Kit	1		●					
49	198.945	1304 298 914	93163825	Gasket Kit	1		●					

Notes

Date

07 / 2006

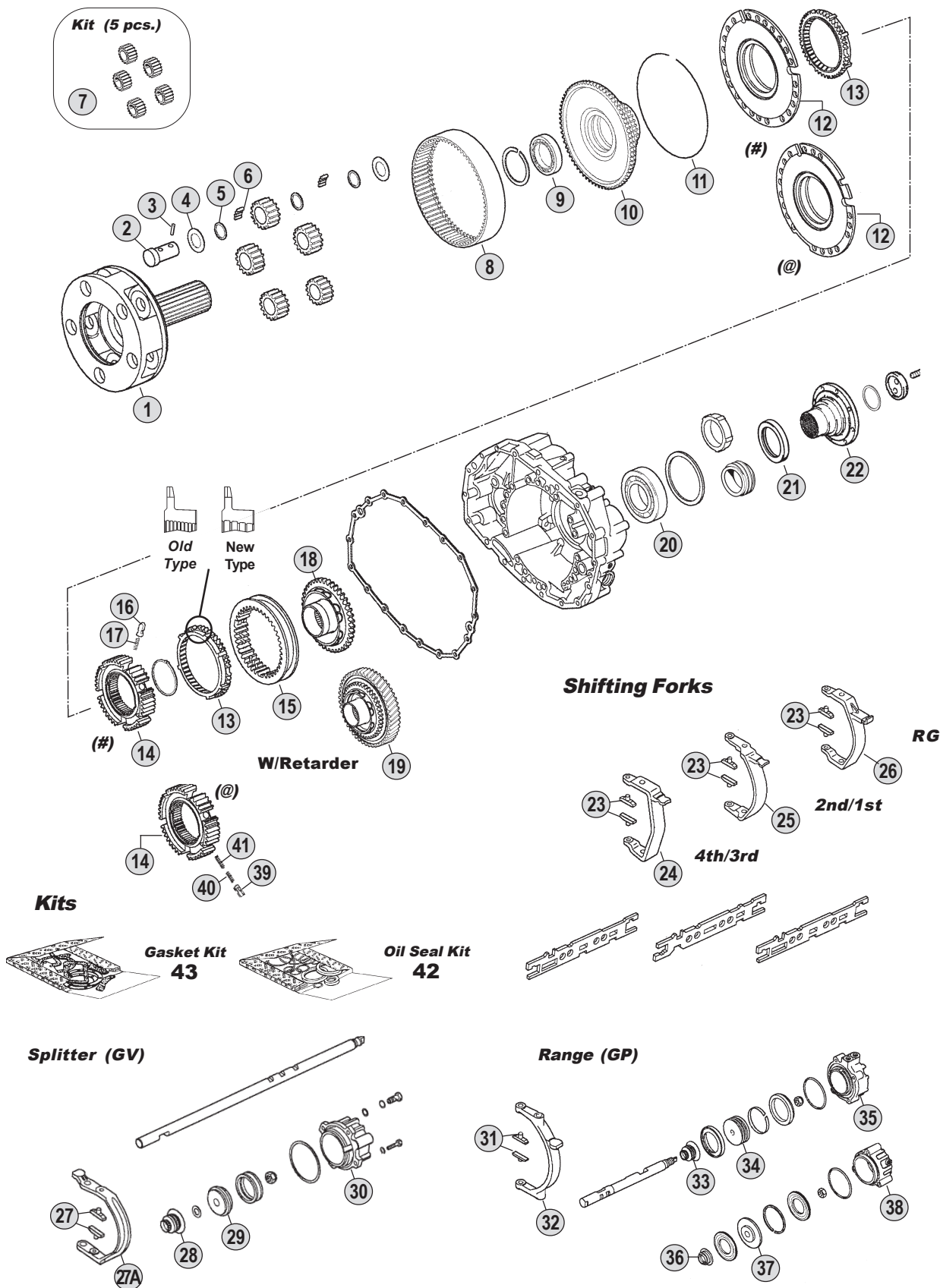
Table

0120 / A

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Suitable To : **ZF**

16S109



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Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82



Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	IVECO no.										
1	190.389	1304 232 088	93194272	Planetary Carrier	1		ABCD	●					
1	190.390	1304 232 086		Planetary Carrier	1		E	●					
2	107.157	1304 332 111	93156862	Planet Pin	5			●					
3	160.239	0631 329 037	93156863	Lock Pin 4x26	5			●					
4	169.396	0501 304 692	42480885	Thrust Washer 1,50	10			●					
5	169.397	0730 103 102	42480886	Spacer Ring 1,50	15			●					
6	171.044	0735 470 115	8193195	Roller D.5x15,30	200			●					
7	198.795	1304 232 026	8193194	Planetary Gear Set	1		AB	●					
7	298.022	1304 232 054	42533454	Planetary Gear Set	1		CD	●					
7	198.815	1304 232 022	93163285	Planetary Gear Set	1		E	●					
8	123.210	1304 332 178	93191520	Crown Gear 86 T	1		AB	●					
8	123.266	1304 332 134	42533449	Crown Gear 90 T	1		CD	●					
8	123.219	1304 332 043	93163287	Crown Gear 74 T	1		E	●					
9	130.265	0735 340 080	42491977	Bearing D.70x90x10	1		(#)	●					
9	130.310	0750 116 165	42492449	Bearing D.80x110x16	1		(@)	●					
10	150.141	1304 332 060	8193198	Carrier Hub 86 T	1		AB (#)	●					
10	150.135	1304 332 215		Carrier Hub 86 T	1		AB (@)	●					
10	150.164	1304 332 135		Carrier Hub 90 T	1		CD (#)	●					
10	150.166	1304 332 216	42533450	Carrier Hub 90 T	1		CD (@)	●					
10	150.139	1304 332 044	93163286	Carrier Hub 74 T	1		E (#)	●					
10	150.167	1304 332 217		Carrier Hub 74 T	1		E (@)	●					
11	111.264	0730 505 140	93191521	Locking Wire	1		ABCD	●					
11	111.265	0730 505 092	93163288	Locking Wire	1		E	●					
12	198.817	1304 233 005	93159678	Synchronizer Cone	1		(#)	●					
12	198.796	1304 233 006	42533455	Synchronizer Cone	1		(@)	●					
13	119.157	1304 333 005	8193211	Synchronizer Ring	2	Old Type	(#)	●					
13	119.171	1304 333 021		Synchronizer Ring	2	New Type	(#)	●					
13	119.085	1296 333 022	7982226	Synchronizer Ring	2	Old Type	(@)	●					
13	119.172	1296 333 045	42532826	Synchronizer Ring	2	New Type	(@)	●					
14	157.205	1304 332 066	8193207	Synchronizer Hub	1		(#)	●					
14	157.182	1313 333 001	93163920	Synchronizer Hub	1		(@)	●					
15	154.210	1304 332 089	8193212	Sliding Sleeve	1		(#)	●					
15	154.201	1304 333 011	42533456	Sliding Sleeve	1		(@)	●					
16	160.116	1240 304 278	2960200	Pressure Piece	6		(#)	●					
17	156.037	0732 040 385	8832940	Outer Spring De.6x34	6		(#)	●					
18	109.183	1304 332 075	8193213	Synchronizer Cone	1		(#)	●					
18	109.393	1304 233 013	42533457	Synchronizer Cone	1		(@)	●					
19	109.397	1304 313 133		Synchronizer Cone	1	with retarder	(#)	●					
19	109.173	1304 232 085		Synchronizer Cone	1	with retarder	(@)	●					
20	130.690	0750 116 048	8193180	Roller Bearing D.78x130x25	1		(#)	●					
20		0750 116 197		Bearing D.80x140x26	1		(@)	●					
21		0734 319 439	93191591	Oil seal D.95x115x10	1			●					
22		1304 338 059		Output Flange	1	D.150-4H.	(#)	●					
22		1304 338 050	93191954	Output Flange	1	D.180-4H.	(#)	●					
22		1304 338 052	93156865	Output Flange	1	D.180-10H.	(#)	●					

Notes

- @) Different versions.To be coupled together. DO NO MIX

Date

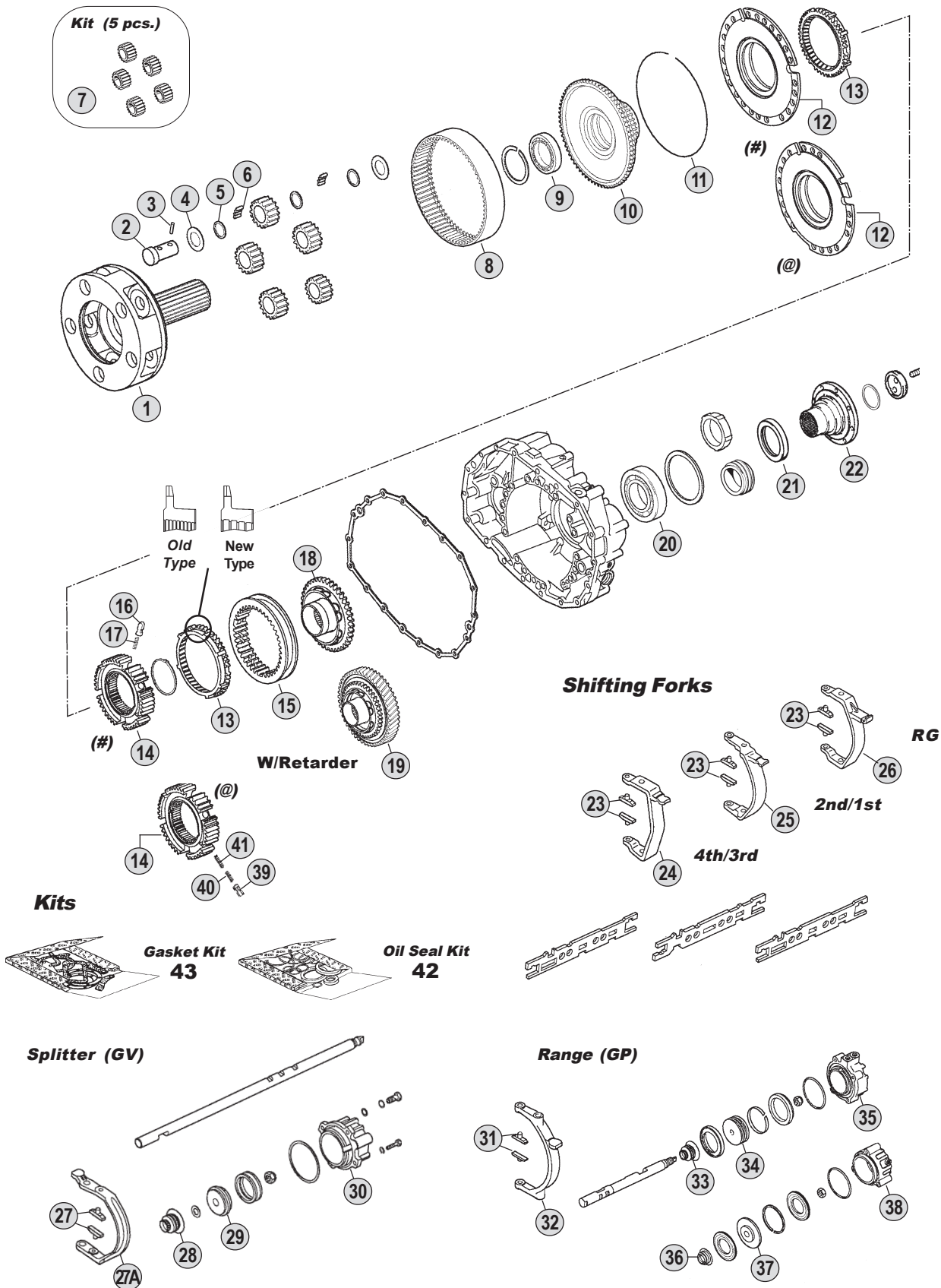
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Table

0120 / B

Suitable To : **ZF**

16S109



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Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82



Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	IVECO no.										
22		1304 338 056		Output Flange	1	D.204-4H.	(#)	●					
22		1304 338 097	42533448	Output Flange	1	D.180-4H.	(@)	●					
22		1304 338 109		Output Flange	1	D.180-4H.	(@)	●					
23	141.194	1290 306 066	42490421	Bronze Slide	2			●					
24		1304 306 010	93156818	Fork	1			●					
24		1304 306 044	8193121	Fork	1			●					
25		1304 306 009	93156821	Fork	1			●					
25		1304 306 043	8193123	Fork	1			●					
26		1304 306 011	8193124	Fork	1			●					
27	141.146	1268 312 057	42487122	Slide	2			●					
27A		1304 312 003	8193167	Fork	1			●					
28		0750 112 047	8193161	Oil seal	1			●					
29	189.421	1296 312 053	8193708	Piston	1			●					
30		1304 212 005	93159325	Cylinder	1			●					
31	141.061	1272 334 003	2984439	Bronze Slide	2			●					
32		1304 334 039	8193220	Fork	1		(#)	●					
32		1304 334 063	42533429	Fork	1		(@)	●					
33		0750 112 047	8193161	Oil seal	1		(#)	●					
34		1304 334 072	93194812	Piston	1		(#)	●					
35		1304 334 061	93190978	Cylinder	1		(#)	●					
36		0750 112 047	8193161	Oil seal	1		(@)	●					
37		1315 334 041	42533425	Piston	1		(@)	●					
38		1304 334 079	42533427	Cylinder	1		(@)	●					
39	160.116	1240 304 278	2960200	Pressure Piece	9		(@)	●					
40	156.037	0732 040 385	8832940	Outer Spring De.6x34	9		(@)	●					
41	156.036	0732 040 386	9931785	Inner Spring De.3x34	9		(@)	●					
42	298.026	1304 298 908	93161005	Oil Seal Kit	1			●					
43	198.945	1304 298 914	93163825	Gasket Kit	1			●					

Notes

(# - @) Different versions.To be coupled together. DO NO MIX

Date

07 / 2006

Table

0120 / B

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

Gearboxes Index

EcoLite

Bus Applications

S6-85

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EcoMid

Bus Applications

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EcoMid

Truck Applications

9S109

16S109

Renault V.I.
INDEX

suitable to :

Z.F.

EcoLite

S6-85

Application

	S6-85	6S-1600				
	(1310)	(1310)				
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

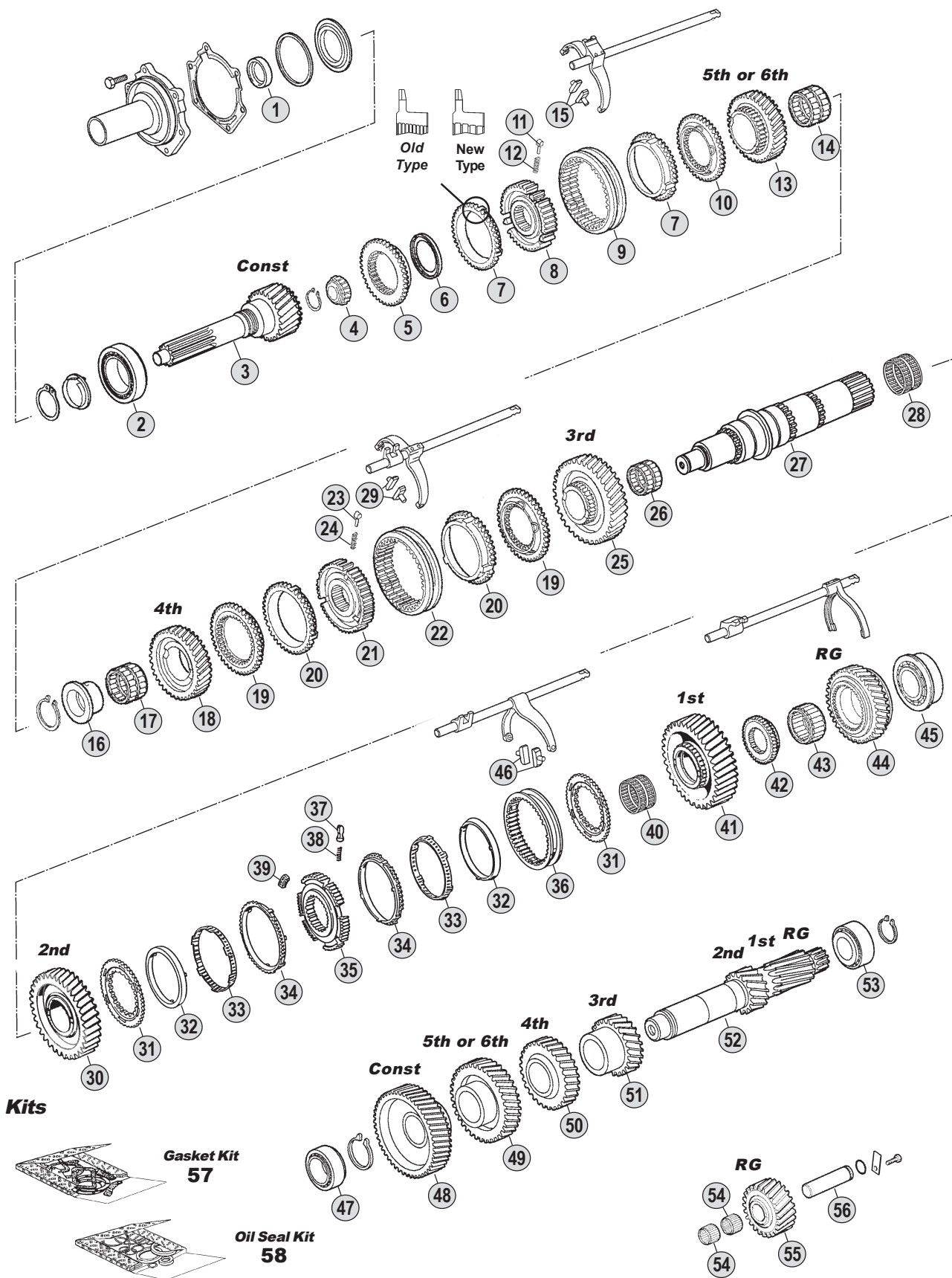
ECOLITE
S6-85

Ratios

Ratio	Note
6,75-0,83	A
7,72-1,00	B

Suitable To : **ZF**

S6-85



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Ratios

S6-85 A : 6,75 - 0,83 B : 7,72 - 1,00

S6-85 (1310)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	R.V.I. no.					S6-85	(1310)					
1	139.753	0750 111 149	50 00 819 719	Oil Seal D.48x65x10	1			●						
2	130.704	0750 117 347	50 01 855 405	Bearing D.70x115x29	1			●						
3	102.387	1310 302 001		Input Shaft	1		A	●						
3	102.388	1310 302 025	50 01 832 896	Input Shaft	1		A	●						
3	102.389	1310 302 032		Input Shaft	1		A	●						
3	102.390	1310 302 026		Input Shaft	1		B	●						
3	102.391	1310 302 022		Input Shaft	1		B	●						
3	102.392	1310 302 021		Input Shaft	1		B	●						
3	102.393	1310 302 033		Input Shaft	1		B	●						
4		0750 117 562	50 01 832 970	Bearing D.28x32	1			●						
5	109.400	1310 302 023	50 01 832 897	Synchronizer Cone	1		A	●						
5	109.401	1310 302 024	50 01 856 262	Synchronizer Cone	1		B	●						
6	269.011	0501 313 171	50 01 832 898	Oil Seal	1			●						
7	119.219	1311 304 076	50 01 823 856	Synchronizer Ring	2	Old Type		●						
7	119.220	1311 304 255	50 01 844 157	Synchronizer Ring	2	New Type		●						
8	157.706	1311 304 226	50 01 832 960	Synchronizer Hub	1			●						
9	154.363	1304 304 664	50 01 842 982	Sliding Sleeve	1			●						
10	109.402	1311 304 009	50 01 832 959	Synchronizer Cone	1			●						
11	160.189	1297 304 436	50 00 289 398	Pressure Piece	3			●						
12	156.140	0732 040 409	50 00 242 857	Spring D.6,5x23,5	3			●						
13	145.886	1310 304 091	50 01 832 958	Gear 6th Speed 23 T	1		A	●						
13	145.887	1310 304 092		Gear 5th Speed 26 T	1		B	●						
14	137.269	0735 321 543	50 01 858 727	Needle Cage D.52x60x23	1			●						
15	141.194	1290 306 066	50 00 813 892	Bronze Slide	2			●						
16	117.384	1311 304 124	50 01 832 956	Bush	1			●						
17	137.078	0735 320 493	50 00 590 829	Needle Bearing D.70x78x36,50	1			●						
18	145.888	1310 304 088	50 01 832 955	Gear 4th Speed 29 T	1		A	●						
18	145.889	1310 304 093		Gear 4th Speed 30 T	1		B	●						
19	109.134	1312 304 027	50 01 831 793	Synchronizer Cone	2			●						
20	119.119	1297 304 402	50 01 831 795	Synchronizer Ring	2	Old Type		●						
20	119.167	1297 304 484	50 01 845 809	Synchronizer Ring	2	New Type		●						
21	157.707	1310 304 080	50 01 832 954	Synchronizer Hub	1			●						
22	154.135	1310 304 202	50 01 848 744	Sliding Sleeve	1			●						
23	160.189	1297 304 436	50 00 289 398	Pressure Piece	3			●						
24	156.140	0732 040 409	50 00 242 857	Spring D.6,5x23,5	3			●						
25	145.890	1310 304 085	50 01 832 952	Gear 3rd Speed 35 T	1		A	●						
25	145.891	1310 304 124		Gear 3rd Speed 37 T	1		B	●						
26	137.270	0735 321 106	50 01 832 904	Needle Cage D.80x88x48	1			●						
27	103.195	1311 304 248	50 01 832 903	Main Shaft	1			●						
28	137.270	0735 321 106	50 01 832 904	Needle Cage D.80x88x48	1			●						
29	141.194	1290 306 066	50 00 813 892	Bronze Slide	2			●						
30	145.892	1310 304 012	50 01 832 905	Gear 2nd Speed 43 T	1			●						
31	109.176	1312 304 106	50 01 832 906	Synchronizer Cone	2			●						
32	119.152	1268 304 424	50 01 832 907	Intermediate Ring	2			●						
33	119.153	1268 304 494	50 01 849 668	Intermediate Cone	2			●						

Notes

Date

07 / 2006

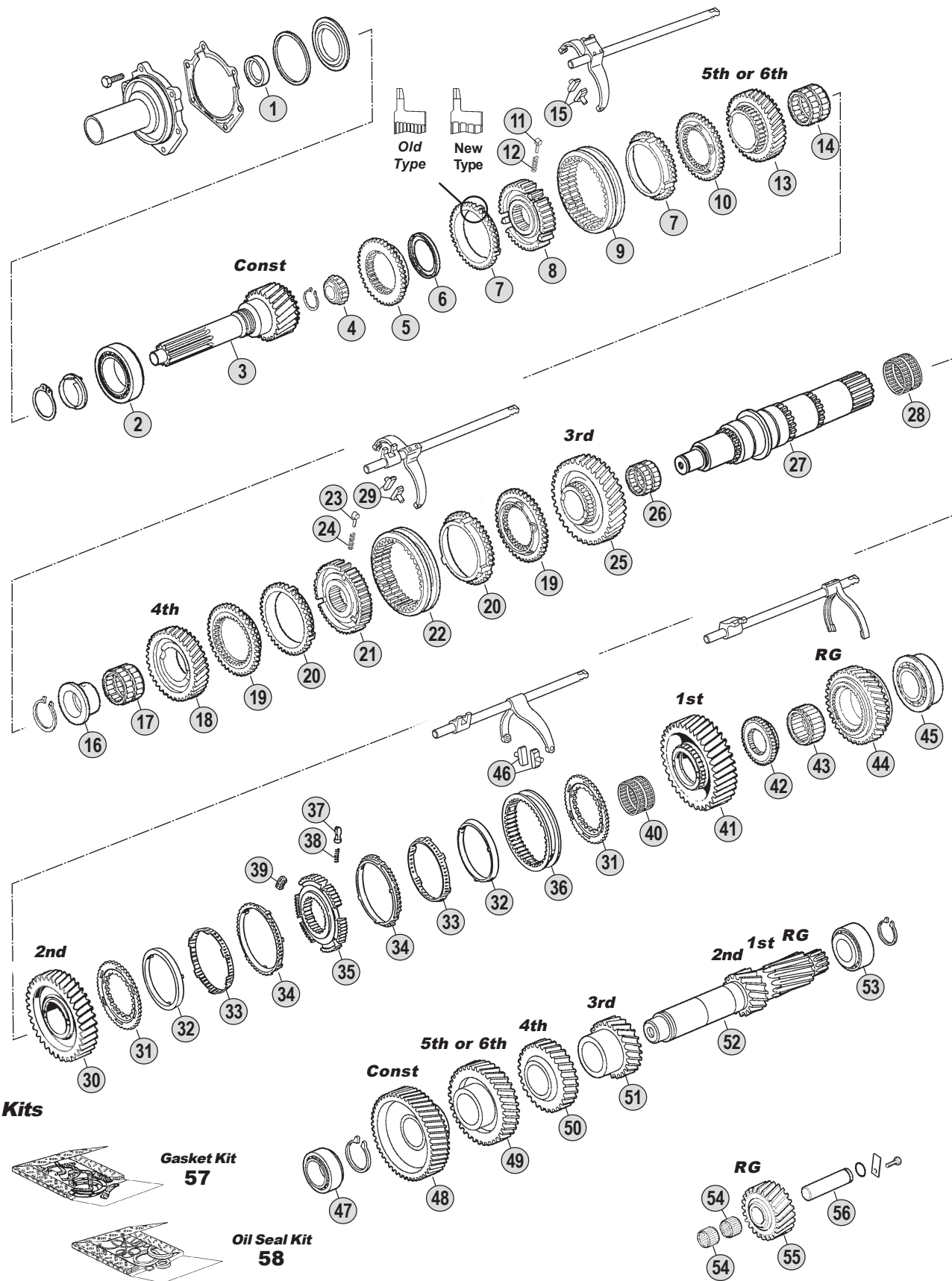
Table

0130

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Suitable To : **ZF**

S6-85



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Ratios

S6-85 A : 6,75 - 0,83 B : 7,72 - 1,00

suitable to :

Z.F.

EcoLite

6S-1600

Application

	6S-85 (1310)	6S-1600 (1310)				
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

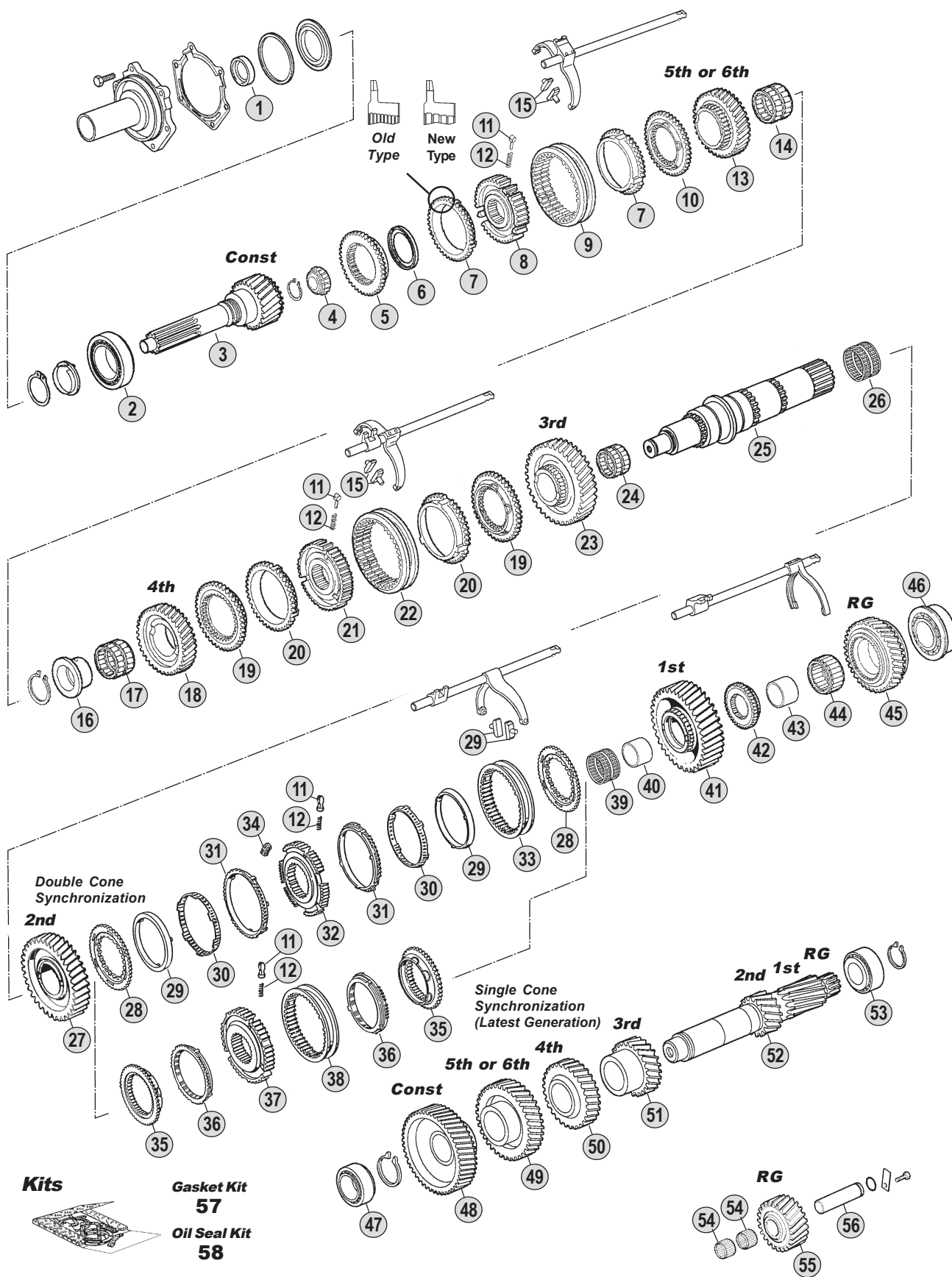
Ratio	Note
6,32-0,81	A
7,72-1,00	B

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ECOLITE
6S-1600

Suitable To : **ZF**

6S-1600



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Ratios

S6-1600 A : 6,32 - 0,81 B : 7,72 - 1,00

6S-1600 (1310)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.					R.V.I. no.				
1	139.754	0734 310 386	50 01 847 325	Oil Seal D.55x75x8	1		●				
2	130.706	0750 117 518	50 01 823 812	Roller Bearing D.71,4x120x32,5	1		●				
3	102.394	1310 302 094		Input Shaft 31 T	1		A	●			
3	102.395	1310 302 097		Input Shaft 31 T	1		A	●			
3	102.396	1310 302 089		Input Shaft 31 T	1		A	●			
3	102.397	1310 302 088	50 01 859 032	Input Shaft 27 T	1		B	●			
3	102.398	1310 302 090		Input Shaft 27 T	1		B	●			
3	102.399	1310 302 096		Input Shaft 27 T	1		B	●			
3	102.400	1310 302 092		Input Shaft 27 T	1		B	●			
3	102.401	1310 302 082		Input Shaft 27 T	1		B	●			
4	137.150	0750 117 232	50 01 823 861	Roller Cage D.42x81x40,30	1		●				
5	109.403	1310 302 045	50 01 859 034	Synchronizer Cone	1		●				
6		0501 315 236	50 01 859 035	Ring	1		●				
7	119.118	1268 304 445	50 01 823 837	Synchronizer Ring	2	Old Type	●				
7	119.142	1268 304 594	50 01 844 158	Synchronizer Ring	2	New Type	●				
8	157.710	1310 304 158	50 01 859 069	Synchronizer Hub	1		●				
9	154.371	1310 304 195	50 01 859 070	Sliding Sleeve	1		●				
10	109.404	1310 304 161	50 01 859 067	Synchronizer Cone	1		●				
11	160.189	1297 304 436	50 00 289 398	Pressure Piece	3		●				
12	156.140	0732 040 409	50 00 242 857	Spring D.6,5x23,5	3		●				
13	145.894	1310 304 138		Gear 6th Speed 23 T	1		A	●			
13	145.895	1310 304 137	50 01 859 066	Gear 5th Speed 27 T	1		B	●			
14	137.274	0735 321 396	50 01 859 065	Needle Cage D.65x73x48	1		●				
15	141.194	1290 306 066	50 00 813 892	Bronze Slide	2		●				
16		0730 162 753	50 01 859 062	Bush	1		●				
17	137.275	0735 321 392	50 01 859 063	Needle Cage D.85x93x44	1		●				
18	145.896	1310 304 178		Gear 4th Speed 28 T	1		A	●			
18	145.897	1310 304 177	50 01 859 064	Gear 4th Speed 28 T	1		B	●			
19	109.134	1312 304 027	50 01 831 793	Synchronizer Cone	2		●				
20	119.119	1297 304 402	50 01 831 795	Synchronizer Ring	2	Old Type	●				
20	119.167	1297 304 484	50 01 845 809	Synchronizer Ring	2	New Type	●				
21	157.180	1312 304 052	50 01 831 818	Synchronizer Hub	1		●				
22	154.135	1310 304 202	50 01 848 744	Sliding Sleeve	1		●				
23	145.898	1310 304 186		Gear 3rd Speed 34 T	1		A	●			
23	145.899	1310 304 185	50 01 859 061	Gear 3rd Speed	1		B	●			
24	137.276	0735 321 432	50 01 859 052	Needle Cage D.92x100x49,5	1		●				
25	103.196	1310 304 189	50 01 859 050	Main Shaft	1		●				
26	137.276	0735 321 432	50 01 859 052	Needle Cage D.92x100x49,5	1		●				
27	145.900	1310 304 196	50 01 859 053	Gear 2nd Speed 43 T	1		●				
28	109.176	1312 304 106	50 01 832 906	Synchronizer Cone	2		●				
29	119.152	1268 304 424	50 01 832 907	Intermediate Ring	2		●				
30	119.153	1268 304 494	50 01 849 668	Intermediate Cone	2		●				
31	119.144	1268 304 525	50 01 832 976	Synchronizer Ring	2		●				
32	157.181	1312 304 158	50 01 842 925	Synchronizer Hub	1		●				
33	154.190	1310 304 175	50 01 847 344	Sliding Sleeve	1		●				

Notes

(*) Latest Models only. Do NO MIX Single Cone Synchron. with Double Cone Synchron.

Date

07 / 2006

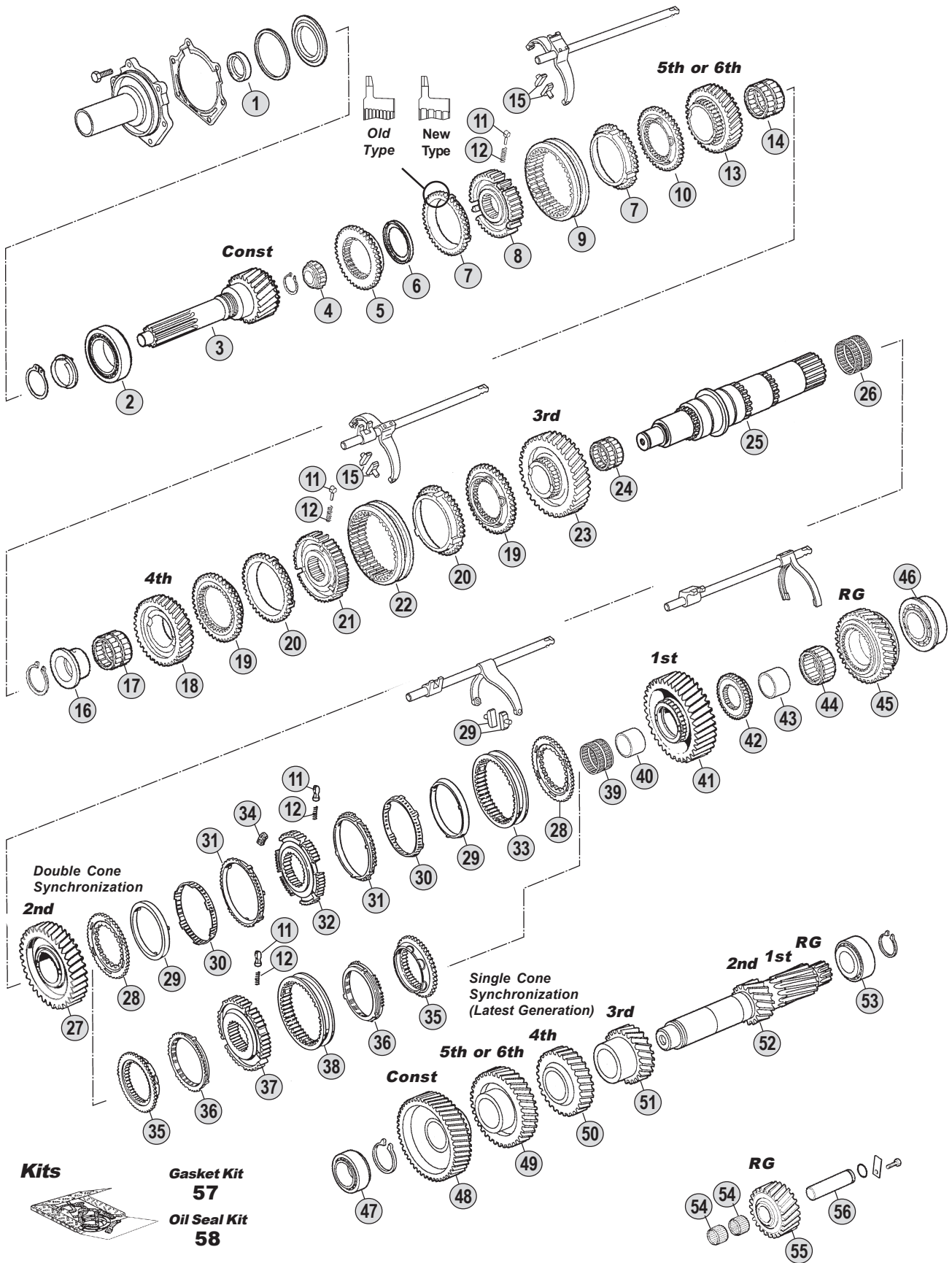
Table

0140

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Suitable To : **ZF**

6S-1600



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Ratios

S6-1600 A : 6,32 - 0,81 B : 7,72 - 1,00

6S-1600 (1310)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	R.V.I. no.										
34	156.176	1312 304 159	50 01 832 974	Pad	3			●					
35	109.132	1313 304 009	50 01 831 807	Synchronizer Cone	2		(*)	●					
36	119.122	1297 304 401	50 01 831 806	Synchronizer Ring	2	Old Type	(*)	●					
36	119.166	1297 304 485	50 01 853 567	Synchronizer Ring	2	New Type	(*)	●					
37	157.189	1313 304 008	50 01 831 803	Synchronizer Hub	1		(*)	●					
38	154.202	1316 304 078	50 01 854 408	Sliding Sleeve	1		(*)	●					
39	137.276	0735 321 432	50 01 859 052	Needle Cage D.92x100x49,5	1			●					
40		0735 295 148	50 01 859 806	Bush	1			●					
41	145.901	1310 304 182	50 01 859 055	Gear 1st Speed 50 T	1			●					
42	157.711	1310 304 188	50 01 859 056	Hub	1			●					
43		0750 119 131	50 01 859 057	Bush	1			●					
44	137.277	0735 321 394	50 01 859 058	Needle Cage D.82x90x47	1			●					
45	147.240	1310 304 201	50 01 859 059	Reverse Gear	1			●					
46	130.706	0750 117 518	50 01 823 812	Roller Bearing D.71,4x120x32,5	1			●					
47	130.234	0750 117 083	50 00 819 722	Bearing D.50,8x95,2x27,7	1			●					
48	146.615	1310 303 069		Constant Gear 47 T	1		A	●					
48	146.616	1310 303 068	50 01 859 048	Constant Gear 50 T	1		B	●					
49	146.617	1310 303 059		Gear 6th Speed 43 T	1		A	●					
49	146.618	1310 303 074	50 01 859 047	Gear 5th Speed 39 T	1		B	●					
50	146.619	1310 303 062		Gear 4th Speed 32 T	1		A	●					
50	146.620	1310 303 075		Gear 4th Speed 29 T	1		B	●					
51	146.621	1310 303 072		Gear 3rd Speed	1		A	●					
51	146.622	1310 303 073		Gear 3rd Speed	1		B	●					
52	105.192	1310 303 053	50 01 859 043	Countershaft	1			●					
53	130.233	1246 203 008	50 00 240 173	Roller Bearing D.44,45x95,25x28	1			●					
54	137.273	0750 115 233	50 00 293 956	Needle Cage D.30x38x30	2			●					
55	147.241	1310 305 011	50 01 859 029	Reverse Gear	1			●					
56	107.201	1310 305 001	50 01 833 013	Reverse Pin	1			●					
57	298.041	1310 298 018	50 01 859 101	Gasket Kit	1			●					
58	298.042	1310 298 020	50 01 859 103	Oil Seals Kit	1			●					

ECOLITE
6S-1600

Notes

(*) Latest Models only. Do NO MIX Single Cone Synchron. with Double Cone Synchron.

Date

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Table

0140

suitable to :

Z.F.

EcoMid

8S180

Application

	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

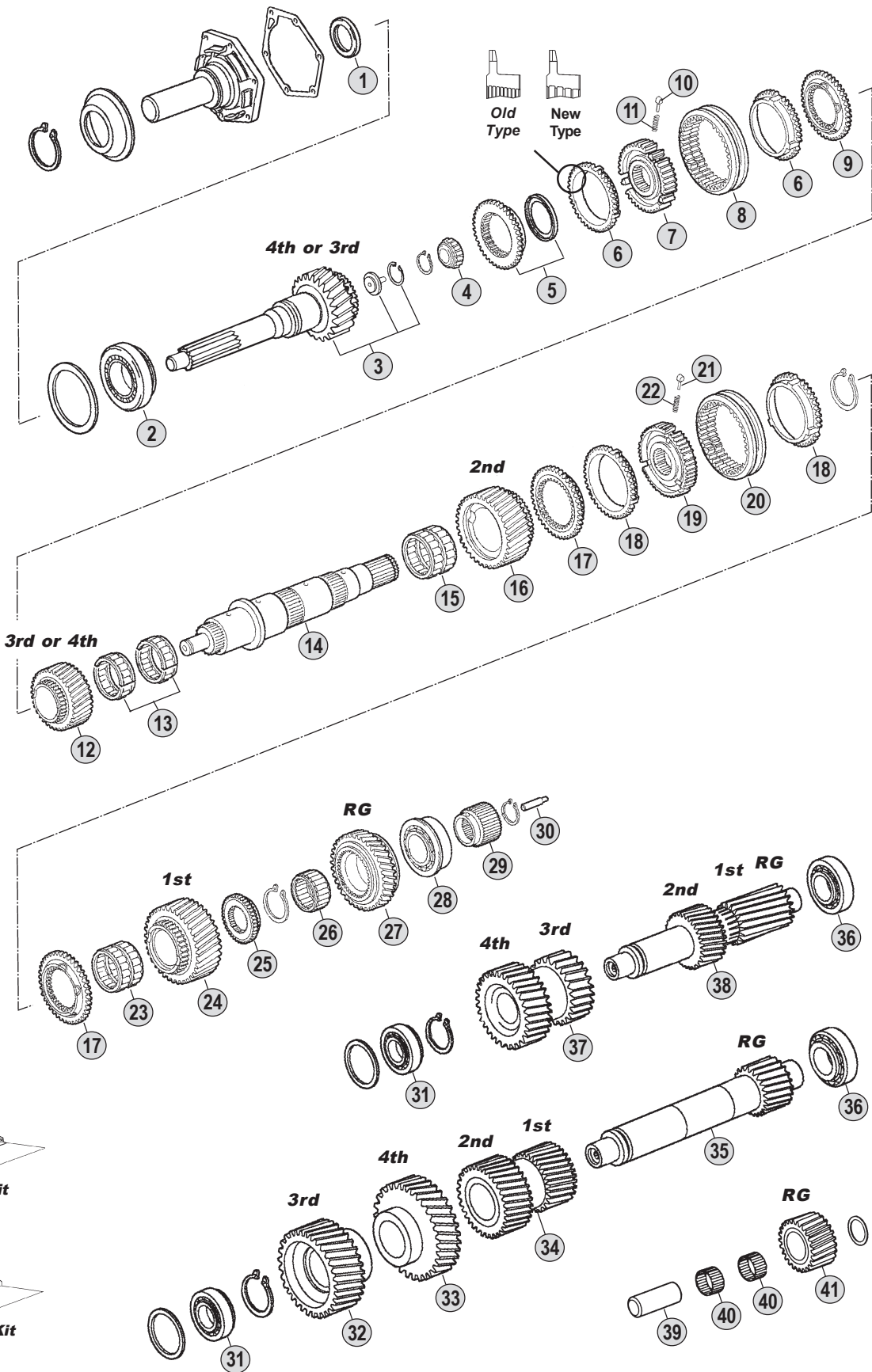
ECOMID
8S180

Ratios

Ratio	Note
6,38-0,76	A
8,73-1,00	B

Suitable To : **ZF**

8S180



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Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00

8S180 (1304)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					R.V.I. no.	8S180	(1304)					
1		0734 310 104	50 00 821 194	Oil Seal 52x68x8	1		●							
2	130.706	0750 117 518	50 01 823 812	Roller Bearing D.71,4x120x32,5	1		●							
3	102.348	1304 202 206		Input Shaft 29 T	1		●							
3		1304 202 207		Input Shaft 29 T	1		●							
3	102.361	1304 202 208	50 01 845 435	Input Shaft 29 T	1		●							
3		1304 202 210	50 01 823 811	Input Shaft 29 T	1		●							
3		1304 202 211		Input Shaft 29 T	1		●							
3	102.349	1304 202 212		Input Shaft 29 T	1		●							
4	137.150	0750 117 232	50 01 823 861	Roller Cage D.42x81x40,30	1		●							
5	109.396	1304 202 214	50 01 823 857	Synchronizer Cone	1		●							
6	119.219	1311 304 076	50 01 823 856	Synchronizer Ring	2	Old Type	●							
6	119.220	1311 304 255	50 01 844 157	Synchronizer Ring	2	New Type	●							
7	157.702	1304 304 651	50 01 823 854	Synchronizer Hub	1		●							
8	154.363	1304 304 664	50 01 842 982	Sliding Sleeve	1		●							
9	109.395	1304 302 425	50 01 823 853	Synchronizer Cone	1		●							
10	160.189	1297 304 436	50 00 289 398	Pressure Piece	3		●							
11	156.140	0732 040 409	50 00 242 857	Spring D.6,5x23,5	3		●							
12	147.233	1304 304 637	50 01 823 852	Gear 4th Speed 24 T	1		A	●						
12	147.231	1304 304 636	50 01 860 128	Gear 3rd Speed 29 T	1		B	●						
13	137.260	0750 115 430	50 01 823 851	Needle Cage 70x78x60	1		●							
14	103.191	1304 304 604	50 10 242 807	Main Shaft	1		●							
15	137.259	0735 320 378	50 01 823 832	Needle Cage 70x83x55	1		●							
16	145.827	1304 304 582	50 01 823 833	Gear 2nd Speed 29 T	1		A	●						
16	145.825	1304 304 581	50 01 860 130	Gear 2nd Speed 33 T	1		B	●						
17	109.392	1311 304 015	50 01 823 834	Synchronizer Cone	2		●							
18	119.118	1268 304 445	50 01 823 837	Synchronizer Ring	2	Old Type	●							
18	119.142	1268 304 594	50 01 844 158	Synchronizer Ring	2	New Type	●							
19	157.700	1304 304 576	50 01 823 835	Synchronizer Hub	1		●							
20	154.200	1304 304 597	50 00 293 410	Sliding Sleeve 1st-2nd Speed	1		●							
21	160.189	1297 304 436	50 00 289 398	Pressure Piece	3		●							
22	156.140	0732 040 409	50 00 242 857	Spring D.6,5x23,5	3		●							
23	137.260	0750 115 430	50 01 823 851	Needle Cage 70x78x60	1		●							
24	147.232	1304 304 587	50 01 823 844	Gear 1st Speed 33 T	1		A	●						
24	147.229	1304 304 586	50 01 860 132	Gear 1st Speed 38 T	1		B	●						
25	109.172	1304 304 007	50 01 823 845	Synchronizer Cone	1		●							
26	137.147	0750 115 225	50 00 819 745	Needle Cage D.60x68x39	1		●							
27	147.230	1304 304 672	50 01 836 446	Reverse Gear 35 T	1		●							
28	130.684	0735 371 599	50 01 836 812	Roller Bearing D.50,8x104,7x36,	1		●							
29	157.701	1304 304 588	50 01 823 848	Sun Gear	1		●							
30	188.209	1312 304 150	50 01 823 850	Oil Tube	1		●							
31	130.685	0735 371 096	50 01 823 929	Roller Bearing D.40x85x33	1		●							
32	146.586	1304 303 294	50 10 242 862	Gear 3rd Speed 31 T	1		A	●						
33	147.234	1304 303 293	50 10 242 861	Gear 4th Speed 34 T	1		A	●						
34	143.121	1304 303 292	50 10 242 819	Double Gear 19/23 T	1		A	●						
35	105.186	1304 303 291	50 10 242 814	Countershaft 16 T	1		A	●						

Notes

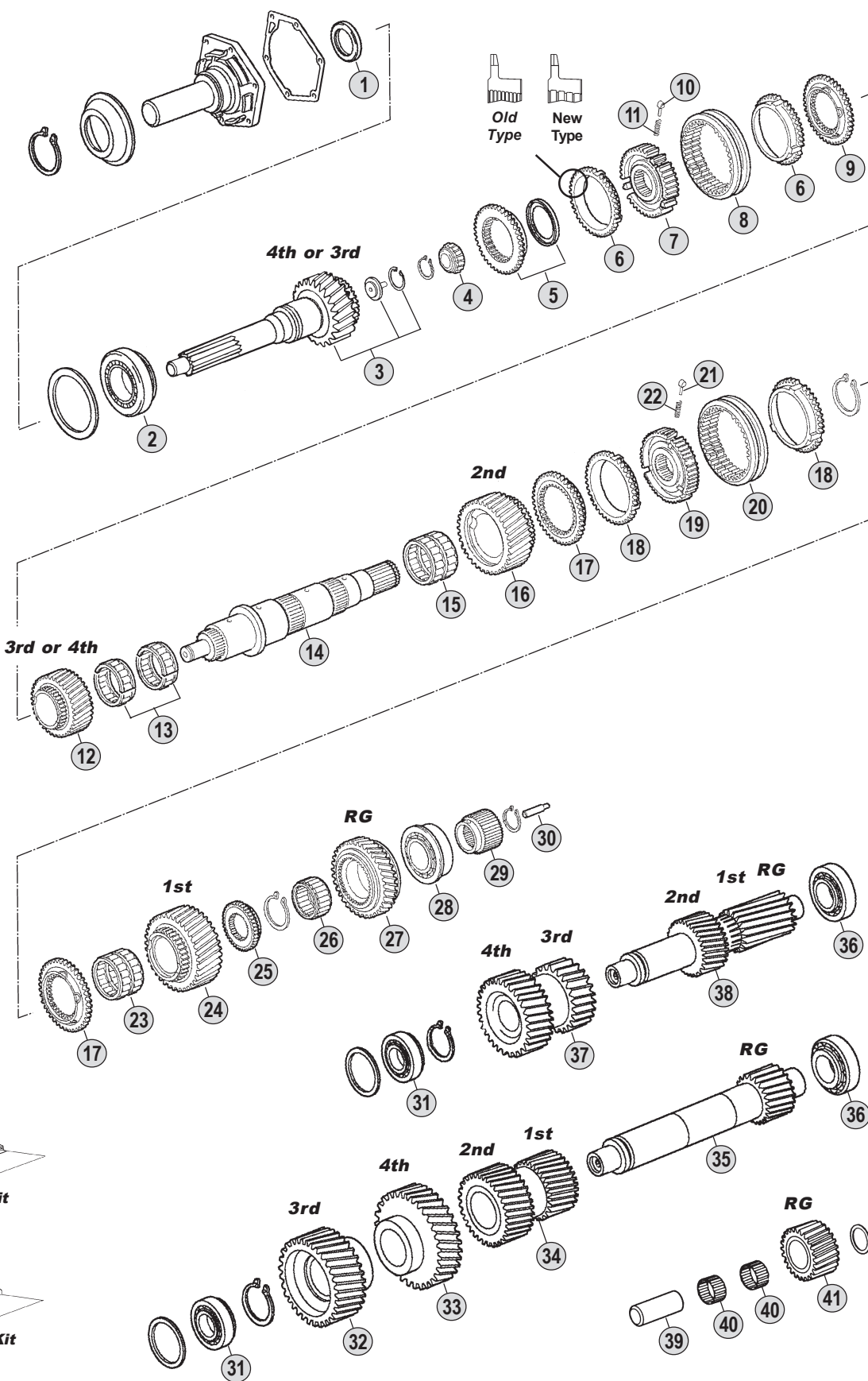
Date

07 / 2006

Table

0145 / A

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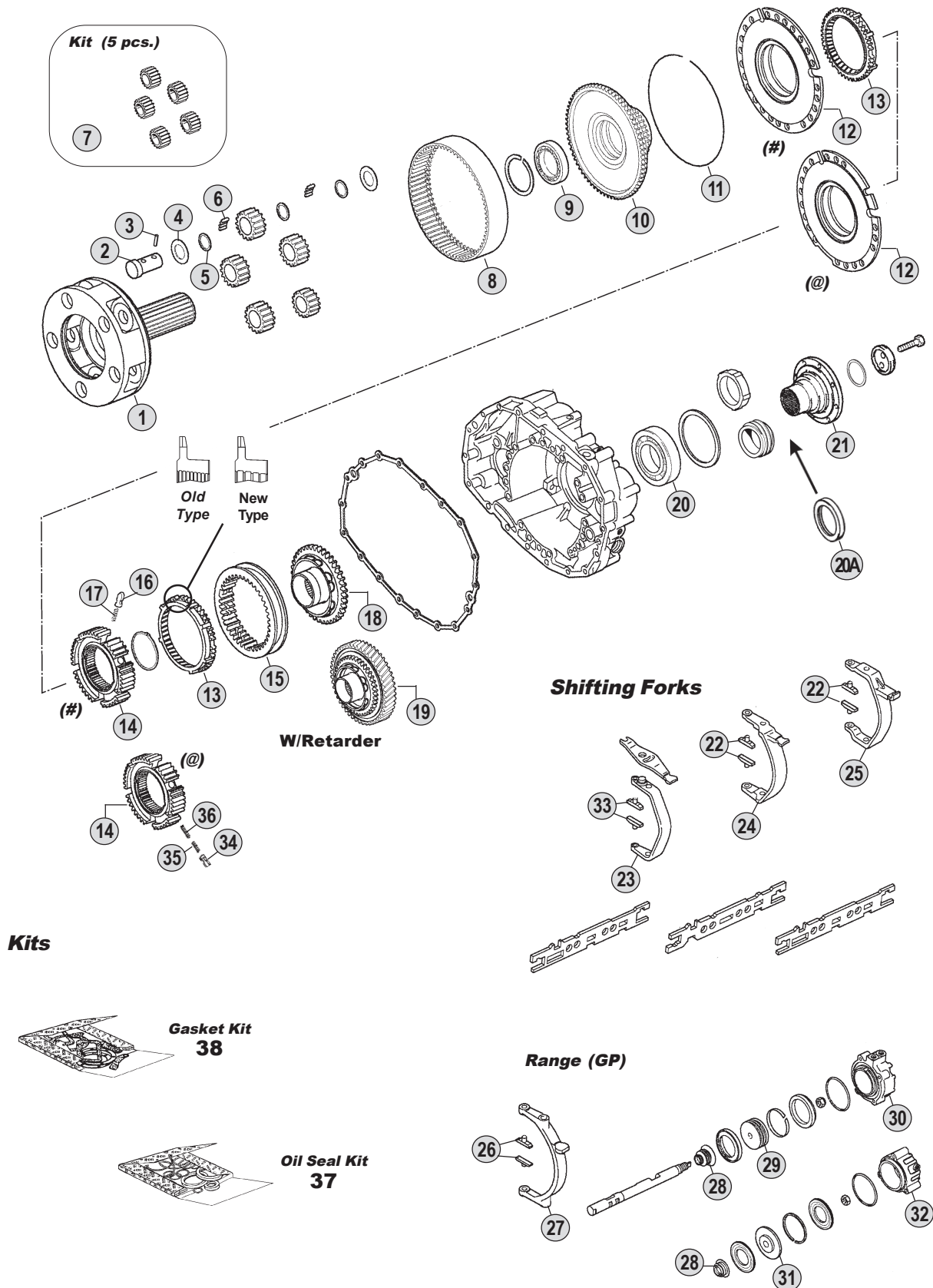
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Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00

Suitable To : **ZF**

8S180



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Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00

8S180 (1304)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	R.V.I. no.					8S180	(1304)					
1	190.388	1304 232 092	50 01 843 653	Planetary Carrier	1		●							
2	107.157	1304 332 111	50 00 293 508	Planet Pin	5		●							
3	160.239	0631 329 037		Lock Pin 4x26	5		●							
4	169.396	0501 304 692	50 00 293 498	Thrust Washer 1,50	5		●							
5	169.397	0730 103 102	50 00 293 497	Spacer Ring 1,50	15		●							
6	171.044	0735 470 115	50 00 293 592	Roller D.5x15,30	200		●							
7	298.019	1304 232 051	50 01 823 880	Planetary Gear Set	1		●							
8	123.265	1304 332 122	50 01 823 883	Crown Gear 117 T	1		●							
9	130.265	0735 340 080	50 00 819 837	Bearing D.70x90x10	1		(#)	●						
9	130.310	0750 116 165	50 01 821 522	Bearing D.80x110x16	1		(@)	●						
10	150.163	1304 332 071	50 00 819 836	Carrier Hub	1		(#)	●						
10		1304 332 210	50 01 860 125	Carrier hub	1		(@)	●						
11	111.175	0730 505 053	50 00 819 295	Locking Wire 2,50	1		●							
12	198.817	1304 233 005	50 00 293 513	Synchronizer Cone	1		(#)	●						
12	198.796	1304 233 006	50 01 850 320	Synchronizer Cone	1		(@)	●						
13	119.157	1304 333 005	50 00 819 843	Synchronizer Ring	2	Old Type	(#)	●						
13	119.171	1304 333 021		Synchronizer Ring	2	New Type	(#)	●						
13	119.085	1296 333 022	50 00 289 824	Synchronizer Ring	2	Old Type	(@)	●						
13	119.172	1296 333 045	50 01 846 736	Synchronizer Ring	2	New Type	(@)	●						
14	157.205	1304 332 066	50 00 819 842	Synchronizer Hub	1		(#)	●						
14	157.182	1313 333 001	50 01 831 875	Synchronizer Hub	1		(@)	●						
15	154.210	1304 332 089	50 00 819 844	Sliding Sleeve	1		(#)	●						
15	154.201	1304 333 011	50 01 850 321	Sliding Sleeve	1		(@)	●						
16	160.116	1240 304 278	50 00 255 276	Pressure Piece	6		(#)	●						
17	156.037	0732 040 385	77 01 007 805	Outer Spring De.6x34	6		(#)	●						
18	109.183	1304 332 075	50 00 819 846	Synchronizer Cone	1		(#)	●						
18	109.393	1304 233 013	50 01 850 322	Synchronizer Cone	1		(@)	●						
19	109.397	1304 313 133		Synchronizer Cone	1	with retarder	(#)	●						
19	109.173	1304 232 085		Synchronizer Cone	1	with retarder	(@)	●						
20	130.690	0750 116 048	50 00 819 826	Roller Bearing D.78x130x25	1		(#)	●						
20		0750 116 197		Bearing D.80x140x26	1		(@)	●						
20A		0734 319 439	50 01 824 954	Oil seal D.95x115x10	1		●							
21		1304 338 037		Output Flange	1	D.165-4H.	(#)	●						
21		1304 338 050	50 01 846 987	Output Flange	1	D.180-4H.	(#)	●						
21		1304 338 069		Output Flange	1	D.180-4H.	(#)	●						
21		1304 338 035		Output Flange	1	D.180-8H.	(#)	●						
21		1304 338 097	50 01 850 318	Output Flange	1	D.180-4H.	(@)	●						
22	141.194	1290 306 066	50 00 813 892	Bronze Slide	2		●							
23		1304 306 103	50 01 823 865	Fork	1		A	●						
23		1304 306 102	50 01 860 127	Fork	1		B	●						
24		1304 306 009	50 00 819 779	Fork	1		●							
24		1304 306 043	50 00 293 437	Fork	1		●							
25		1304 306 011	50 01 823 868	Fork	1		●							
26	141.061	1272 334 003	50 00 559 643	Bronze Slide	2		●							
27		1304 334 039	50 00 819 852	Fork	1		(#)	●						

Notes

- @) Different versions.To be coupled together. DO NO MIX

Date

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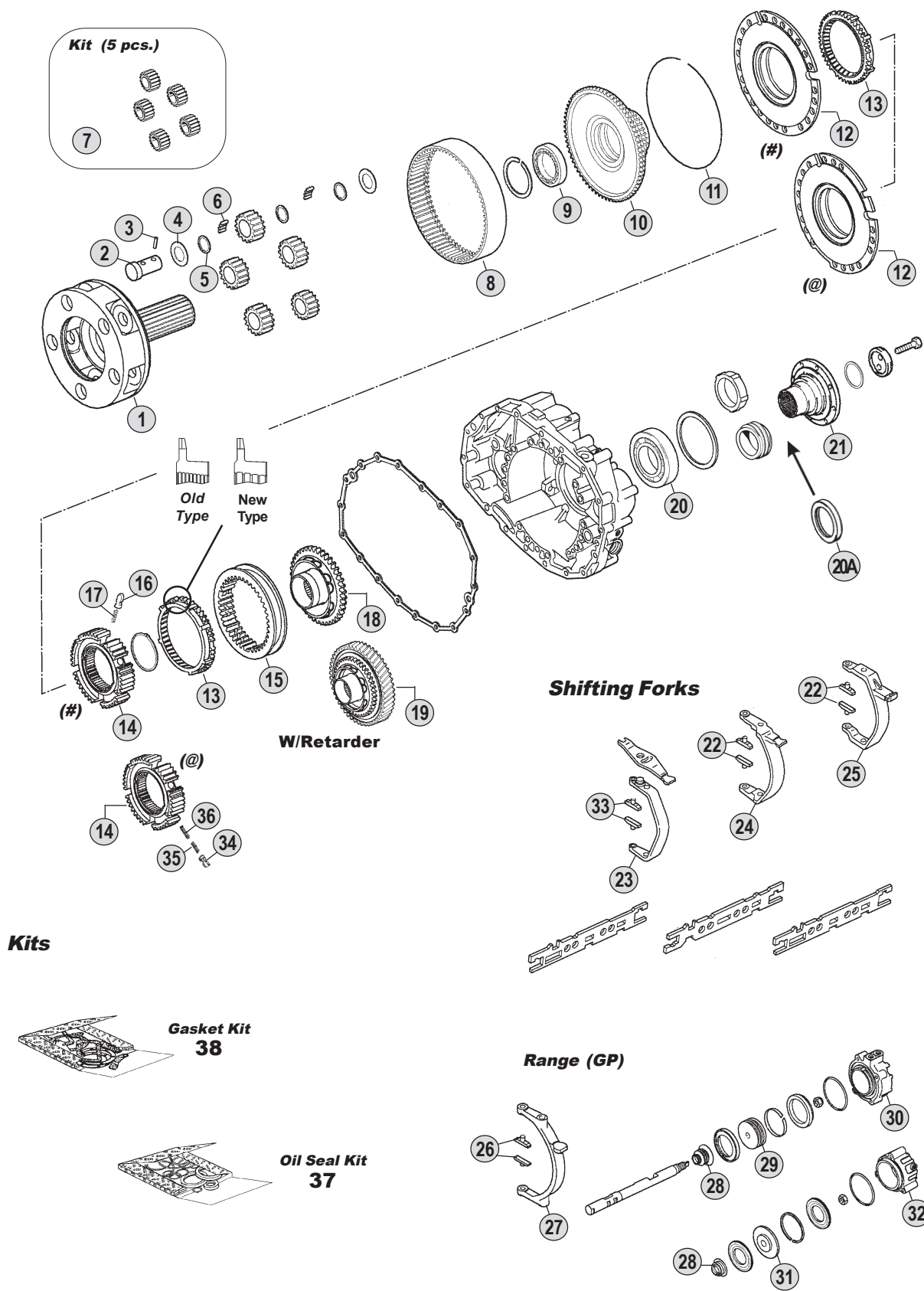
Table

0145 / B

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Suitable To : **ZF**

8S180



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Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00

suitable to :

Z.F.

EcoMid

9S109

Application

	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

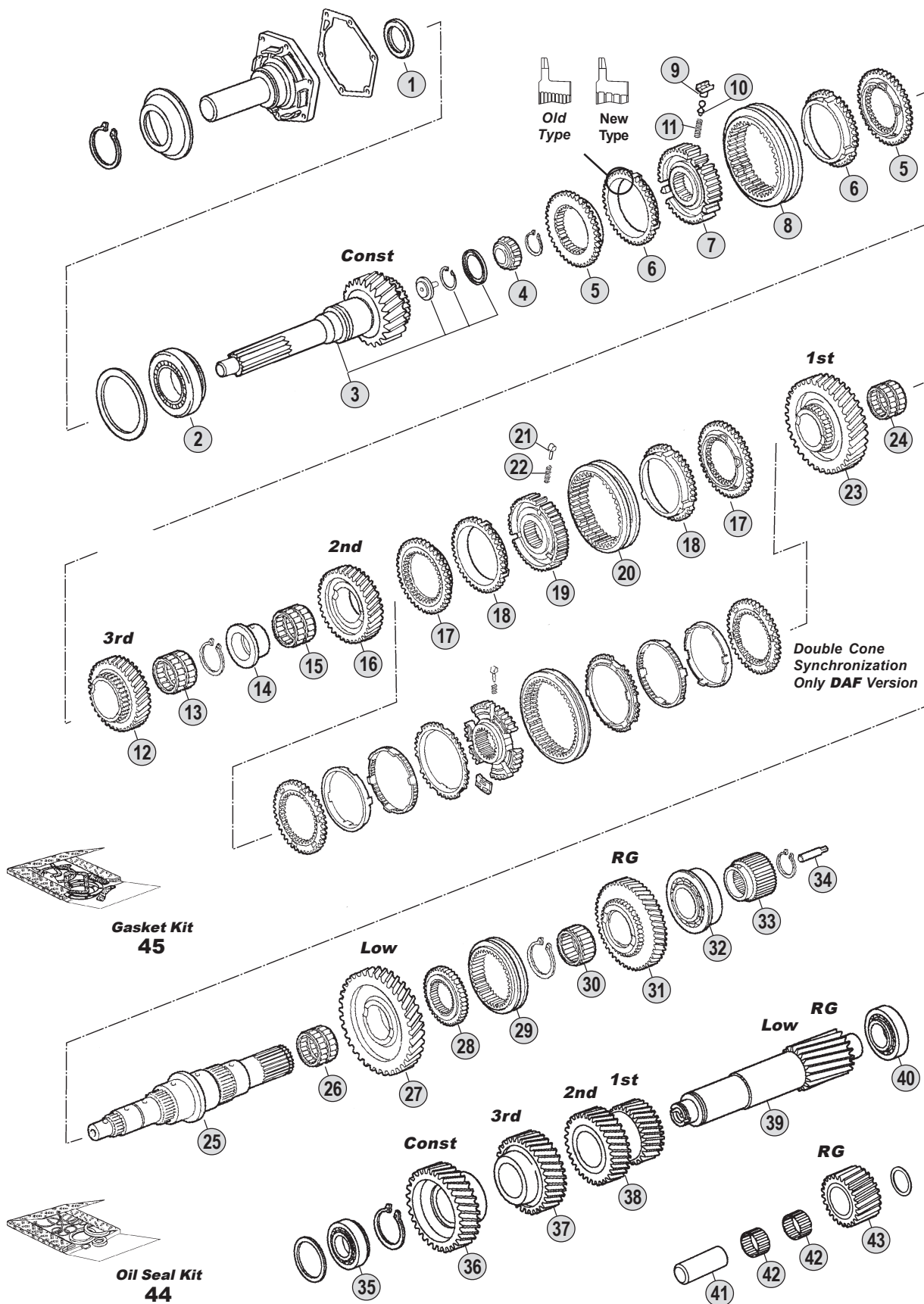
ECOMID
9S109

Ratios

Ratio	Note
10,24-0,74	A
10,25-0,79	B
12,91-1,00	C
12,92-1,00	D

Suitable To : **ZF**

9S109



Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00



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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio	●					
	CEI no.	ZF no.										
1	139.753	0750 111 149	50 00 819 719	Oil Seal D.48x65x10	1		●					
2	130.313	0750 117 079	50 00 819 711	Bearing D.66,6x117,4x30,1	1		●					
3	102.354	1304 202 170	50 01 825 604	Input Shaft 27 T	1		●	AB				
3	102.352	1304 202 171	50 01 838 868	Input Shaft 27 T	1		●	AB				
3	102.356	1304 202 172	50 01 856 703	Input Shaft 27 T	1		●	AB				
3	102.358	1304 202 173		Input Shaft 27 T	1		●	AB				
3	102.351	1304 202 180		Input Shaft 27 T	1		●	AB				
3	102.355	1304 202 245		Input Shaft 27 T	1		●	AB				
3	102.357	1304 202 168		Input Shaft 26 T	1		●	CD				
3	102.353	1304 202 175		Input Shaft 26 T	1		●	CD				
3	102.347	1304 202 177		Input Shaft 26 T	1		●	CD				
3	102.350	1304 202 178		Input Shaft 26 T	1		●	CD				
4	130.683	0735 371 748	50 01 838 891	Needle Bearing D.32x29,5	1		●					
5	109.391	1304 304 660	50 01 836 747	Synchronizer Cone	2		●					
6	119.150	1304 304 014	50 00 819 770	Synchronizer Ring	2	Old Type	●					
6	119.169	1304 304 683	50 01 850 287	Synchronizer Ring	2	New Type	●					
7	157.697	1304 304 051	50 00 819 768	Synchronizer Hub	1		●					
8	154.361	6002 305 515	50 00 293 423	Sliding Sleeve	1		●					
9	188.096	1238 304 394	50 00 242 859	Pressure Piece	3		●					
10	160.143	1249 304 222	50 00 242 858	Plunger	3		●					
11	156.140	0732 040 409	50 00 242 857	Spring D.6,5x23,5	3		●					
12	145.832	1304 304 472	50 00 293 416	Gear 3rd Speed 23 T	1		●	A				
12	145.839	1304 304 365		Gear 3rd Speed 24 T	1		●	B				
12	145.836	1304 304 571	50 01 859 717	Gear 3rd Speed 27 T	1		●	C				
12	145.824	1304 304 500		Gear 3rd Speed 25 T	1		●	D				
13	137.258	0735 321 011	50 00 822 317	Needle Cage 60x68x23	1		●					
14	117.377	1304 304 050	50 00 819 759	Bush	1		●					
15	137.074	0750 115 227	50 00 819 762	Needle Bearing D.75x83x40	1		●					
16	145.831	1304 304 367	50 00 293 521	Gear 2nd Speed 31 T	1		●	AB				
16	145.835	1304 304 570	50 01 859 716	Gear 2nd Speed 30 T	1		●	C				
16	145.823	1304 304 499		Gear 2nd Speed 29 T	1		●	D				
17	109.171	1304 304 408	50 00 819 752	Synchronizer Cone	2		●					
18	119.151	1304 304 542	50 00 822 316	Synchronizer Ring	2	Old Type	●					
18	119.170	1304 304 681	50 01 845 850	Synchronizer Ring	2	New Type	●					
19	157.696	1304 304 591	50 01 824 955	Synchronizer Hub	1		●					
20	154.200	1304 304 597	50 00 293 410	Sliding Sleeve 1st-2nd Speed	1		●					
21	160.189	1297 304 436	50 00 289 398	Pressure Piece	3		●					
22	156.140	0732 040 409	50 00 242 857	Spring D.6,5x23,5	3		●					
23	145.830	1304 304 471	50 00 293 408	Gear 1st Speed	1		●	A				
23	145.840	1304 304 369		Gear 1st Speed 33 T	1		●	B				
23	145.834	1304 304 569	50 01 859 715	Gear 1st Speed 33 T	1		●	C				
23	147.227	1304 304 498		Gear 1st Speed 33 T	1		●	D				
24	137.142	0735 320 816	50 00 819 750	Needle Cage D.75x83x23	1		●					
25	103.190	1304 304 449	50 10 242 805	Main Shaft	1		●					
26	137.257	0735 320 500	50 00 805 917	Needle Cage D.75x83x35	1		●					

Notes

Date

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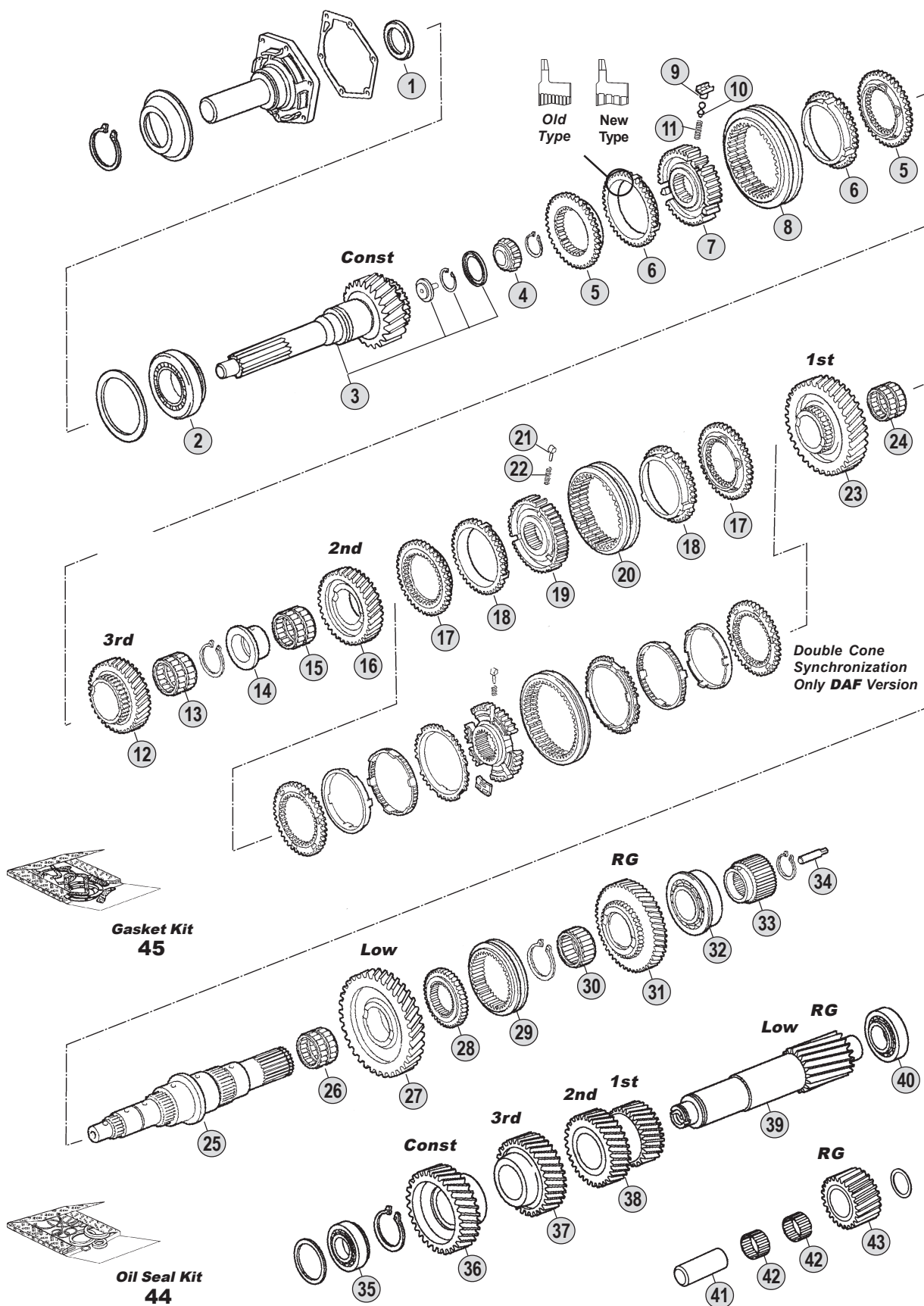
Table

0150 / A

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Suitable To : **ZF**

9S109



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Ratios

9S109 A: 10,24 - 0,74 B: 10,25 - 0,79 C: 12,91 - 1,00 D: 12,92 - 1,00

9S109 (1304)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.										
27	145.829	1304 304 428	50 00 293 384	Gear Low Speed 38 T	1	AB	●					
27	145.833	1304 304 543	50 01 859 713	Gear Low Speed	1	C	●					
27	145.828	1304 304 426		Gear Low Speed 37 T	1	D	●					
28	157.698	1304 304 443	50 00 293 385	Synchronizer Hub	1		●					
29	154.362	1304 304 444	50 00 293 386	Sliding Sleeve	1		●					
30	137.147	0750 115 225	50 00 819 745	Needle Cage D.60x68x39	1		●					
31	147.235	1304 304 437	50 00 293 387	Reverse Gear 35 T	1	AB	●					
31	147.236	1304 304 553	50 01 859 714	Reverse Gear	1	C	●					
31	147.226	1304 304 435		Reverse Gear 32 T	1	D	●					
32	130.315	0735 371 605	50 01 838 890	Bearing D.50,8x104,7x30,1	1		●					
33	157.699	1304 304 448	50 00 293 388	Sun Gear	1		●					
34	188.209	1312 304 150	50 01 823 850	Oil Tube	1		●					
35	130.314	0735 371 749	50 01 838 884	Bearing D.40x80x32	1		●					
36	146.588	1304 303 285	50 10 242 858	Constant Gear 33 T	1	AB	●					
36	146.584	1304 303 272	50 01 859 712	Constant Gear 36 T	1	CD	●					
37	146.587	1304 303 210	50 10 242 856	Gear 3rd Speed 38 T	1	A	●					
37	146.590	1304 303 171		Gear 3rd Speed 37 T	1	B	●					
37	146.589	1304 303 287	50 01 859 711	Gear 3rd Speed 28 T	1	C	●					
37	147.228	1304 303 244		Gear 3rd Speed 27 T	1	D	●					
38	143.122	1304 303 209	50 10 242 820	Double Gear 1st/2nd-28/21 T	1	A	●					
38	143.125	1304 303 172		Double Gear 1st/2nd Speed	1	B	●					
38	143.123	1304 303 286	50 01 859 710	Double Gear 1st/2nd Speed	1	C	●					
38	143.119	1304 303 243		Double Gear 19/23 T	1	D	●					
39	105.187	1304 303 269	50 00 293 380	Countershaft 16 T	1	AB	●					
39	105.188	1304 303 268	50 01 859 795	Countershaft 14 T	1	C	●					
39	105.184	1304 303 267		Countershaft 14 T	1	D	●					
40	130.234	0750 117 083	50 00 819 722	Bearing D.50,8x95,2x27,7	1		●					
41	107.156	1304 305 030	50 00 819 701	Reverse Shaft	1		●					
42	137.143	0735 358 192	50 00 819 702	Needle Cage D.40x60x26	2		●					
43		1304 305 043	50 01 823 809	Reverse Gear 22 T	1	AB	●					
43		1304 305 045	50 01 859 708	Reverse gear	1	C	●					
43		1304 305 044		Reverse gear	1	D	●					
44	298.026	1304 298 908	50 00 293 704	Oil Seal Kit	1		●					
45	198.945	1304 298 914	50 01 014 897	Gasket Kit	1		●					

Notes

Date

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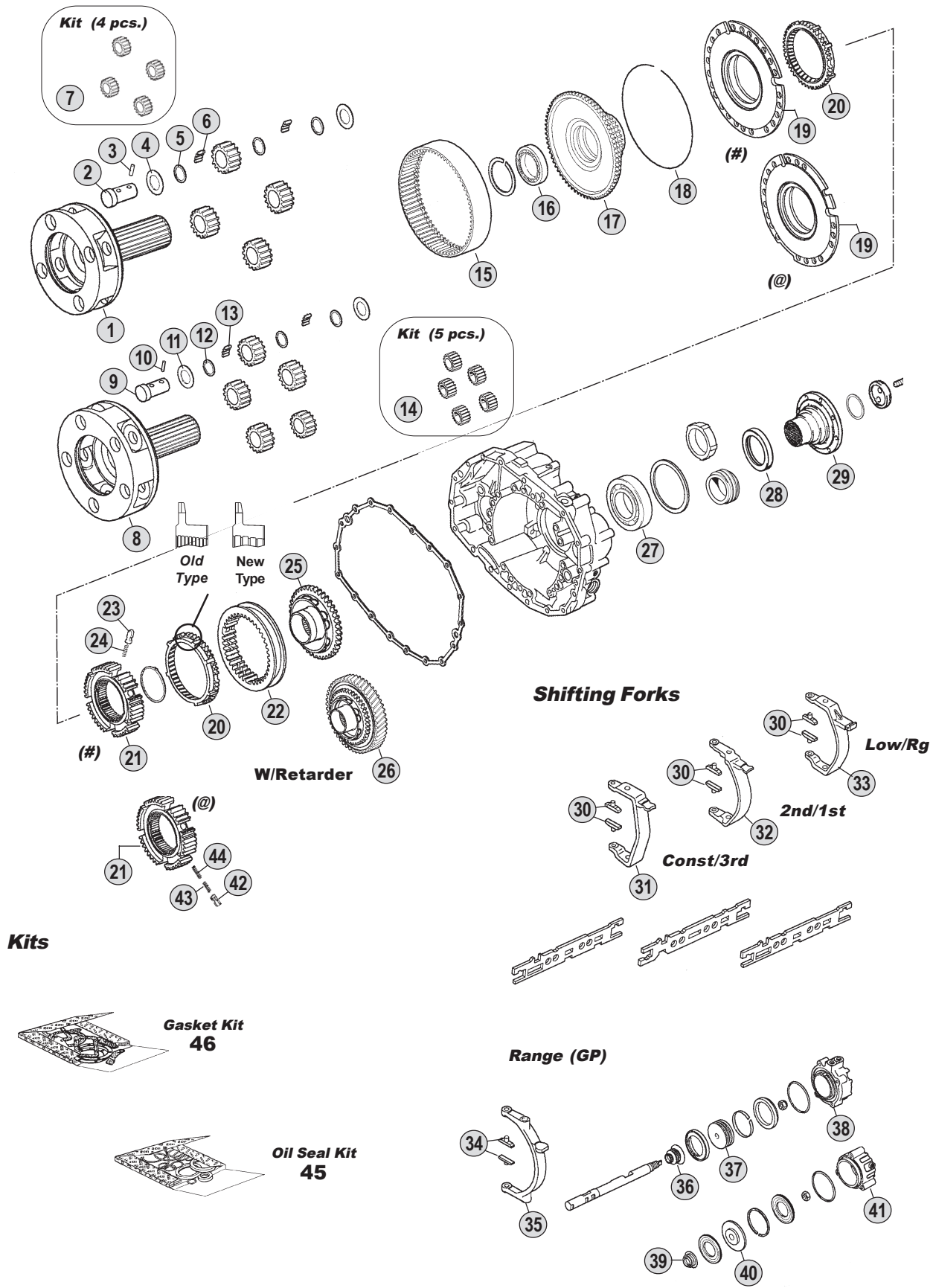
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Suitable To : **ZF**

9S109



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Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00

9S109 (1304)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	R.V.I. no.											
1	190.391	1304 232 095	50 01 838 928	Planetary Carrier	1	(1)	●							
2	107.157	1304 332 111	50 00 293 508	Planet Pin	4	(1)	●							
3	160.239	0631 329 037		Lock Pin 4x26	4	(1)	●							
4	169.396	0501 304 692	50 00 293 498	Thrust Washer 1,50	8	(1)	●							
5	169.397	0730 103 102	50 00 293 497	Spacer Ring 1,50	12	(1)	●							
6	171.044	0735 470 115	50 00 293 592	Roller D.5x15,30	160	(1)	●							
7	298.023	1304 232 037	50 00 293 496	Planetary Gear Set	1	(1)	●							
8	190.387	1304 232 091		Planetary Carrier	1	(2)	●							
9	107.157	1304 332 111	50 00 293 508	Planet Pin	5	(2)	●							
10	160.239	0631 329 037		Lock Pin 4x26	5	(2)	●							
11	169.396	0501 304 692	50 00 293 498	Thrust Washer 1,50	10	(2)	●							
12	169.397	0730 103 102	50 00 293 497	Spacer Ring 1,50	15	(2)	●							
13	171.044	0735 470 115	50 00 293 592	Roller D.5x15,30	200	(2)	●							
14	298.018	1304 232 025		Planetary Gear Set	1	(2)	●							
15	123.210	1304 332 178	50 00 293 511	Crown Gear 86 T	1		●							
16	130.265	0735 340 080	50 00 819 837	Bearing D.70x90x10	1		(#)	●						
16	130.310	0750 116 165	50 01 821 522	Bearing D.80x110x16	1		(@)	●						
17	150.141	1304 332 060	50 00 293 509	Carrier Hub 86 T	1		(#)	●						
17	150.135	1304 332 215	50 01 853 868	Carrier Hub 86 T	1		(@)	●						
18	111.264	0730 505 140	50 01 825 015	Locking Wire	1		●							
19	198.817	1304 233 005	50 00 293 513	Synchronizer Cone	1		(#)	●						
19	198.796	1304 233 006	50 01 850 320	Synchronizer Cone	1		(@)	●						
20	119.157	1304 333 005	50 00 819 843	Synchronizer Ring	2	Old Type	(#)	●						
20	119.171	1304 333 021		Synchronizer Ring	2	New Type	(#)	●						
20	119.085	1296 333 022	50 00 289 824	Synchronizer Ring	2	Old Type	(@)	●						
20	119.172	1296 333 045	50 01 846 736	Synchronizer Ring	2	New Type	(@)	●						
21	157.205	1304 332 066	50 00 819 842	Synchronizer Hub	1		(#)	●						
21	157.182	1313 333 001	50 01 831 875	Synchronizer Hub	1		(@)	●						
22	154.210	1304 332 089	50 00 819 844	Sliding Sleeve	1		(#)	●						
22	154.201	1304 333 011	50 01 850 321	Sliding Sleeve	1		(@)	●						
23	160.116	1240 304 278	50 00 255 276	Pressure Piece	6		(#)	●						
24	156.037	0732 040 385	77 01 007 805	Outer Spring De.6x34	6		(#)	●						
25	109.183	1304 332 075	50 00 819 846	Synchronizer Cone	1		(#)	●						
25	109.393	1304 233 013	50 01 850 322	Synchronizer Cone	1		(@)	●						
26	109.173	1304 232 085		Synchronizer Cone	1	with ret.	(@)	●						
27	130.690	0750 116 048	50 00 819 826	Roller Bearing D.78x130x25	1		(#)	●						
27		0750 116 197		Bearing D.80x140x26	1		(@)	●						
28		0734 319 439	50 01 824 954	Oil seal D.95x115x10	1		●							
29		1304 338 059		Output Flange	1	D.150-4 H.	(#)	●						
29		1304 338 060		Output Flange	1	D.180-4 H.	(#)	●						
29		1304 338 050	50 01 846 987	Output Flange	1	D.180-4 H.	(#)	●						
29		1304 338 053		Output Flange	1	D.180-8 H.	(#)	●						
29		1304 338 052		Output Flange	1	D.180-10 H.	(#)	●						
29		1304 338 067	50 00 293 512	Output Flange	1	D.204-4 H.	(#)	●						
29		1304 338 056	50 01 838 929	Output Flange	1	D.204-4 H.	(#)	●						

Notes

- (1) Version with 4 planet pinions .To be coupled together. **DO NO MIX** the qty
 (2) Version with 5 planet pinions .To be coupled together. **DO NO MIX** the qty
 (# - @) Different versions.To be coupled together. **DO NO MIX**

Date

07 / 2006

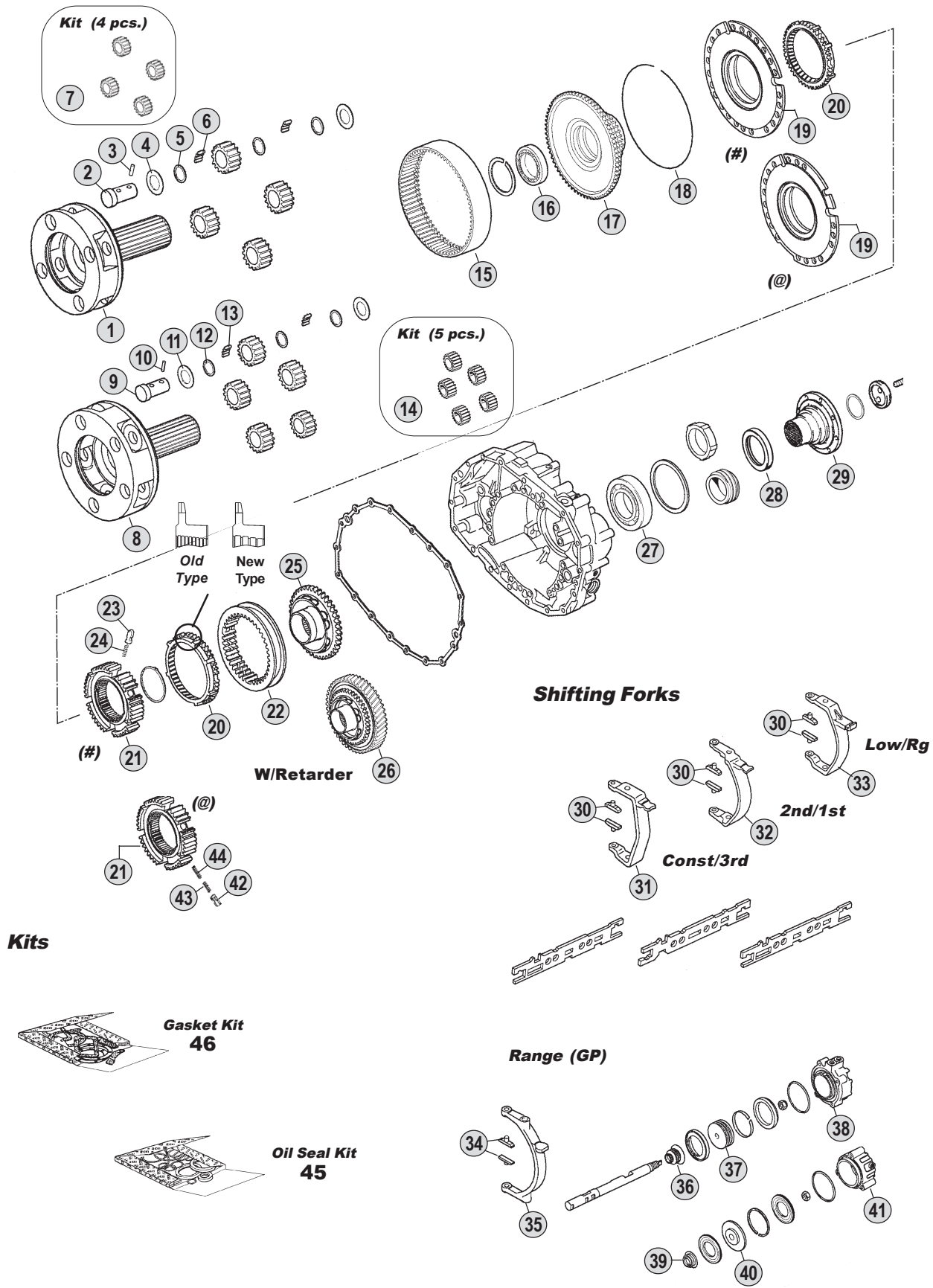
Table

0150 / B

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Suitable To : **ZF**

9S109



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Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00



Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	R.V.I. no.											
29		1304 338 109	50 01 856 595	Output Flange	1	D.180-4H.	(@)	●						
29		1304 338 097	50 01 850 318	Output Flange	1	D.180-4H.	(@)	●						
30	141.194	1290 306 066	50 00 813 892	Bronze Slide	2			●						
31		1304 306 010	50 01 839 024	Fork	1			●						
31		1304 306 044		Fork	1			●						
31		1304 306 096	50 00 822 319	Fork	1			●						
32		1304 306 043	50 00 293 437	Fork	1			●						
32		1304 306 009	50 00 819 779	Fork	1			●						
33		1304 306 077	50 00 293 438	Fork	1			●						
34	141.061	1272 334 003	50 00 559 643	Bronze Slide	2			●						
35		1304 334 039	50 00 819 852	Fork	1		(#)	●						
35		1304 334 063	50 01 850 329	Fork	1		(@)	●						
36		0750 112 047	50 00 819 848	Oil seal	1		(#)	●						
37		1304 334 072	50 01 832 716	Piston	1		(#)	●						
38		1304 334 061	50 01 014 987	Cylinder	1		(#)	●						
39		0750 112 047	50 00 819 848	Oil seal	1		(@)	●						
40		1315 334 041	50 01 850 324	Piston	1		(@)	●						
41		1304 334 079	50 01 850 327	Cylinder	1		(@)	●						
42	160.116	1240 304 278	50 00 255 276	Pressure Piece	9		(@)	●						
43	156.037	0732 040 385	77 01 007 805	Outer Spring De.6x34	9		(@)	●						
44	156.036	0732 040 386	50 00 255 277	Inner Spring De.3x34	9		(@)	●						
45	298.026	1304 298 908	50 00 293 704	Oil Seal Kit	1			●						
46	198.945	1304 298 914	50 01 014 897	Gasket Kit	1			●						

ECOMID
9S109

Notes

- (1) Version with 4 planet pinions .To be coupled together. **DO NO MIX** the qty
 (2) Version with 5 planet pinions .To be coupled together. **DO NO MIX** the qty
 (# - @) Different versions.To be coupled together. **DO NO MIX**

Date

07 / 2006

Table

0150 / B

suitable to :

Z.F.

EcoMid

16S109

Application

	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

ECOMID
16S109

Ratios

Ratio	Note
13,30-1,00	A
13,31-1,00	B
13,41-1,00	C
13,42-1,00	D
13,53-0,82	E

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	R.V.I. no.					16S109	1304			
1	139.753	0750 111 149	50 00 819 719	Oil Seal D.48x65x10	1		●					
2	130.313	0750 117 079	50 00 819 711	Bearing D.66,6x117,4x30,1	1		●					
3	145.478	1304 302 169		Constant Gear	1		ABCD	●				
3	145.516	1304 302 150	50 10 242 851	Constant Gear 30 T	1		E	●				
4	137.142	0735 320 816	50 00 819 750	Needle Cage D.75x83x23	2		●					
5	109.169	1304 302 188	50 01 838 992	Synchronizer Cone	2		●					
6	119.149	1304 304 496	50 01 838 993	Synchronizer Ring	2	Old Type	●					
6	119.173	1304 304 680	50 01 850 279	Synchronizer Ring	2	New Type	●					
7	190.311	1304 202 201		Input Shaft	1		●					
7	190.312	1304 202 202	50 01 838 989	Input Shaft	1		●					
7	190.298	1304 202 203		Input Shaft	1		●					
8	154.064	1240 304 272	50 00 240 205	Sliding Sleeve	1		●					
9	160.116	1240 304 278	50 00 255 276	Pressure Piece	3		●					
10	156.036	0732 040 386	50 00 255 277	Inner Spring De.3x34	3		●					
11	156.037	0732 040 385	77 01 007 805	Outer Spring De.6x34	3		●					
12	137.144	0735 371 406	50 01 839 021	Roller Cage D.32x33	1		●					
13	137.145	0750 115 299	50 01 836 856	Needle Cage D.59,5x81,5x22	2		●					
14	146.397	1304 304 516		Gear 4th Speed	1		ABCD	●				
14	146.439	1304 304 518	50 10 242 786	Gear 4th Speed 27 T	1		E	●				
15	109.170	1304 304 012	50 01 839 012	Synchronizer Cone	2		●					
16	119.150	1304 304 014	50 00 819 770	Synchronizer Ring	2	Old Type	●					
16	119.169	1304 304 683	50 01 850 287	Synchronizer Ring	2	New Type	●					
17	157.186	1304 304 515	50 01 839 013	Synchronizer Hub	1		●					
18	154.199	1304 304 688	50 01 850 288	Sliding Sleeve	1		●					
19	188.096	1238 304 394	50 00 242 859	Pressure Piece	3		●					
20	160.143	1249 304 222	50 00 242 858	Plunger	3		●					
21	145.479	1304 304 475		Gear 3rd Speed	1		ABCD	●				
21	145.518	1304 304 417	50 10 242 841	Gear 3rd Speed	1		E	●				
22	137.142	0735 320 816	50 00 819 750	Needle Cage D.75x83x23	1		●					
23	103.129	1304 304 630	50 10 242 806	Main Shaft	1		●					
24	137.142	0735 320 816	50 00 819 750	Needle Cage D.75x83x23	2		●					
25	145.480	1304 304 497		Gear 2nd Speed 32 T	1		ABCD	●				
25	145.519	1304 304 422	50 10 242 847	Gear 2nd Speed	1		E	●				
26	109.171	1304 304 408	50 00 819 752	Synchronizer Cone	2		●					
27	119.151	1304 304 542	50 00 822 316	Synchronizer Ring	2	Old Type	●					
27	119.170	1304 304 681	50 01 845 850	Synchronizer Ring	2	New Type	●					
28	157.187	1304 304 653	50 01 839 000	Guide Sleeve 1st-2nd Speed	1		●					
29	154.200	1304 304 597	50 00 293 410	Sliding Sleeve 1st-2nd Speed	1		●					
30	160.189	1297 304 436	50 00 289 398	Pressure Piece	3		●					
31	156.140	0732 040 409	50 00 242 857	Spring D.6,5x23,5	3		●					
32	145.533	1304 304 358		Gear 1st Speed 37 T	1		AD	●				
32	145.481	1304 304 549		Gear 1st Speed 37 T	1		BC	●				
32	145.520	1304 304 376	50 10 242 689	Gear 1st Speed 38 T	1		E	●				
33	109.172	1304 304 007	50 01 823 845	Synchronizer Cone	1		●					
34	137.147	0750 115 225	50 00 819 745	Needle Cage D.60x68x39	1		●					

Notes

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Table

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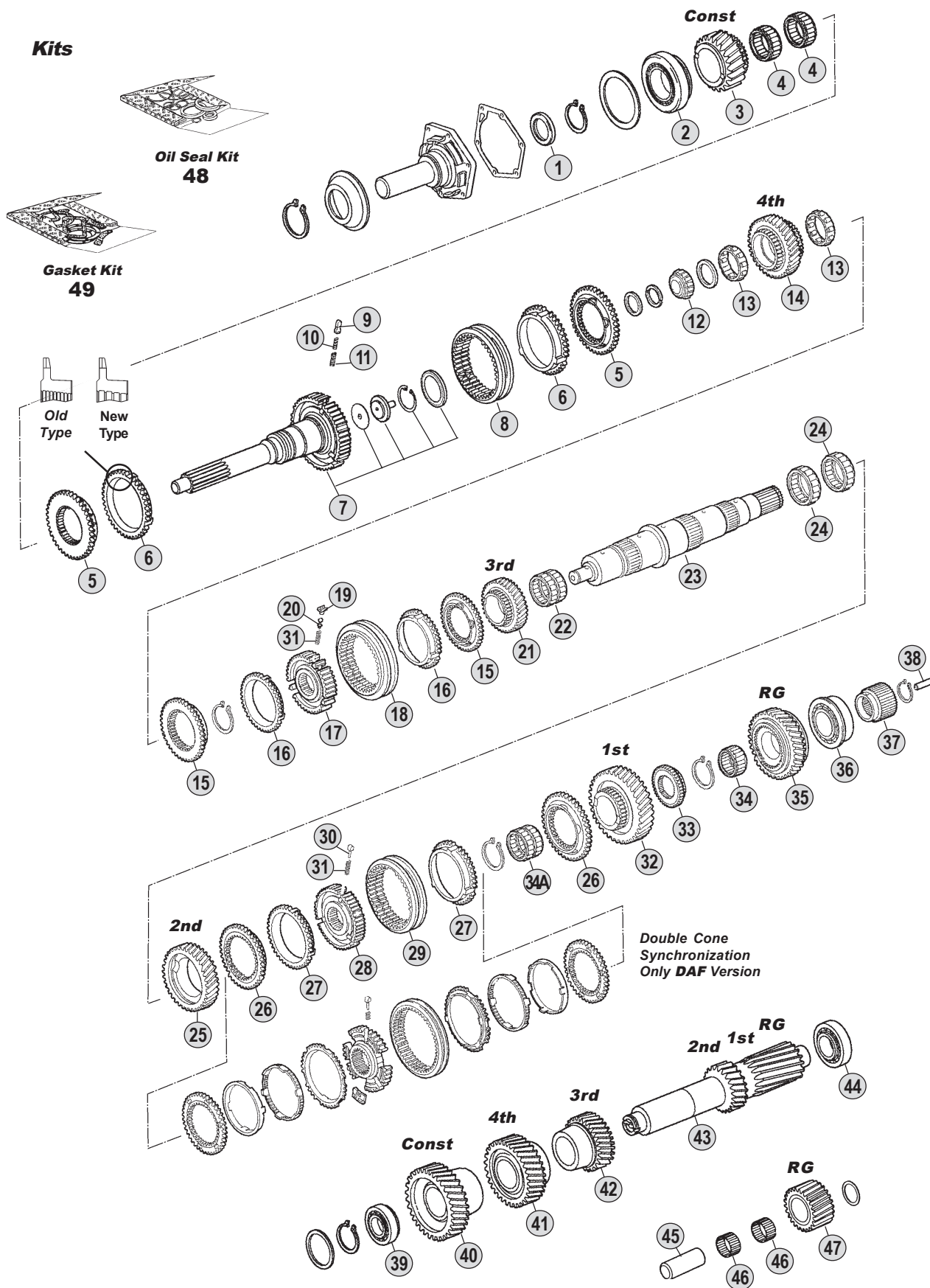
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Kits

Oil Seal Kit 48

Gasket Kit 49

Old Type
New Type



Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	R.V.I. no.								
34A	137.146	0750 115 224	50 01 839 001	Needle Cage D.70x78x50	1		●				
35	147.146	1304 304 669		Reverse Gear 32 T	1		AD	●			
35	147.131	1304 304 671		Reverse Gear 35 T	1		BC	●			
35	147.149	1304 304 670	50 01 839 003	Reverse Gear 35 T	1		E	●			
36	130.315	0735 371 605	50 01 838 890	Bearing D.50,8x104,7x30,1	1			●			
37	157.188	1304 304 261		Sun Gear 29 T	1		AB	●			
37	157.703	1304 304 608		Sun Gear 30 T	1		CD	●			
37	157.201	1304 304 199	50 01 839 004	Sun Gear 21 T	1		E	●			
38	188.209	1312 304 150	50 01 823 850	Oil Tube	1			●			
39	130.314	0735 371 749	50 01 838 884	Bearing D.40x80x32	1			●			
40	146.394	1304 303 273		Constant Gear	1		ABCD	●			
40	146.434	1304 303 283	50 10 242 866	Constant Gear 31 T	1		E	●			
41	146.395	1304 303 212		Gear 4th Speed	1		ABCD	●			
41	146.436	1304 303 175	50 10 242 863	Gear 4th Speed 34 T	1		E	●			
42	146.396	1304 303 214		Gear 3rd Speed	1		ABCD	●			
42	146.438	1304 303 192	50 10 242 874	Gear 3rd Speed	1		E	●			
43	105.115	1304 303 276		Countershaft	1		AD	●			
43	105.099	1304 303 277		Countershaft 14 T	1		BC	●			
43	105.111	1304 303 279	50 10 242 808	Countershaft	1		E	●			
44	130.234	0750 117 083	50 00 819 722	Bearing D.50,8x95,2x27,7	1			●			
45	107.156	1304 305 030	50 00 819 701	Reverse Shaft	1			●			
46	137.143	0735 358 192	50 00 819 702	Needle Cage D.40x60x26	2			●			
47	147.150	1304 305 039		Reverse Gear 22 T	1		AD	●			
47	147.130	1304 305 040		Reverse Gear 21 T	1		BC	●			
47	147.145	1304 305 041	50 01 838 988	Reverse Gear 22 T	1		E	●			
48	298.026	1304 298 908	50 00 293 704	Oil Seal Kit	1			●			
49	198.945	1304 298 914	50 01 014 897	Gasket Kit	1			●			

Notes

Date

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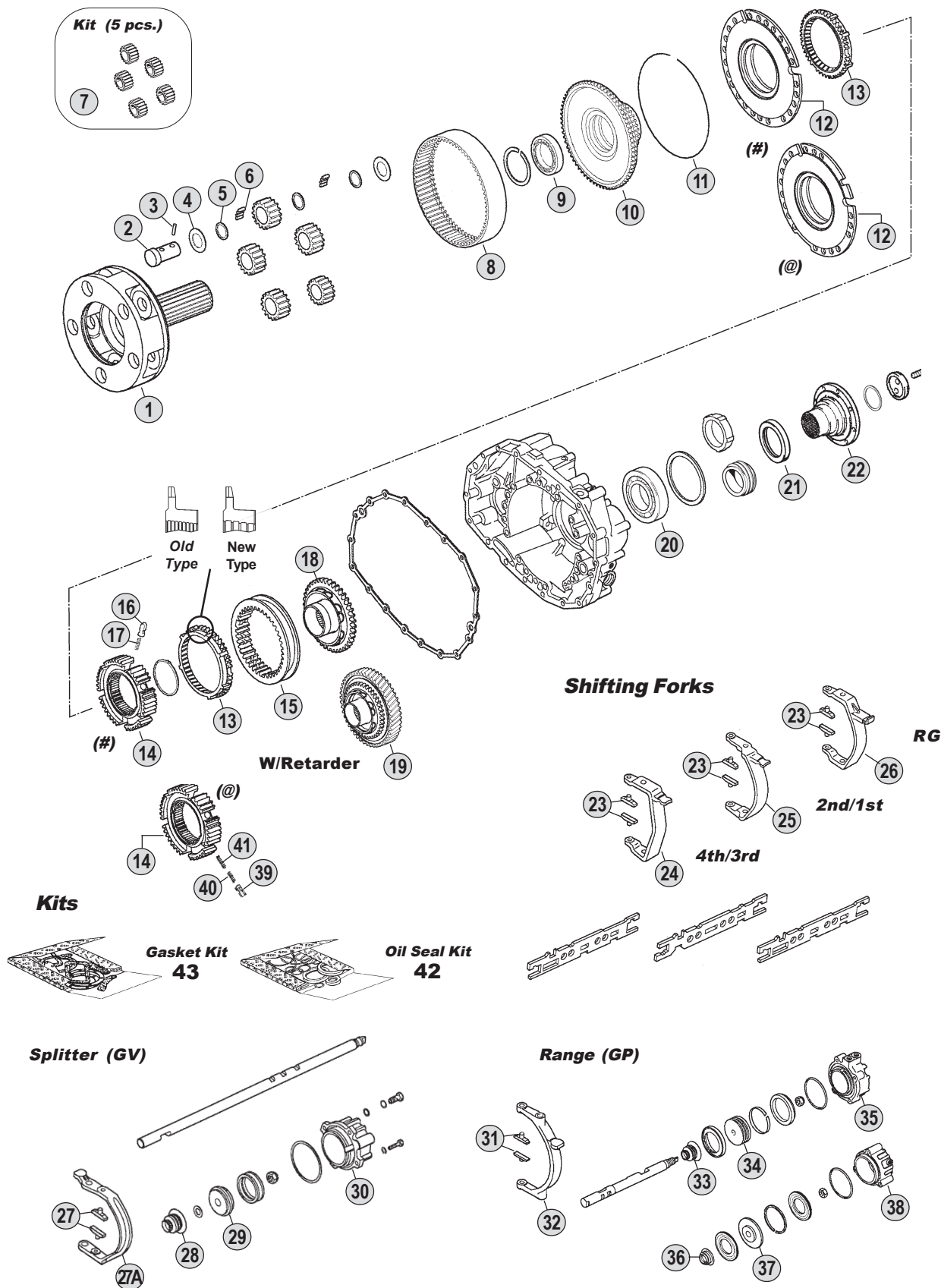
Table

0160 / A

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Suitable To : **ZF**

16S109



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Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82



Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.										
1	190.389	1304 232 088		Planetary Carrier	1		ABCD	●				
1	190.390	1304 232 086	50 01 839 036	Planetary Carrier	1		E	●				
2	107.157	1304 332 111	50 00 293 508	Planet Pin	5			●				
3	160.239	0631 329 037		Lock Pin 4x26	5			●				
4	169.396	0501 304 692	50 00 293 498	Thrust Washer 1,50	10			●				
5	169.397	0730 103 102	50 00 293 497	Spacer Ring 1,50	15			●				
6	171.044	0735 470 115	50 00 293 592	Roller D.5x15,30	200			●				
7	198.795	1304 232 026		Planetary Gear Set	1		AB	●				
7	298.022	1304 232 054		Planetary Gear Set	1		CD	●				
7	198.815	1304 232 022	50 01 839 037	Planetary Gear Set	1		E	●				
8	123.210	1304 332 178	50 00 293 511	Crown Gear 86 T	1		AB	●				
8	123.266	1304 332 134		Crown Gear 90 T	1		CD	●				
8	123.219	1304 332 043	50 01 839 040	Crown Gear 74 T	1		E	●				
9	130.265	0735 340 080	50 00 819 837	Bearing D.70x90x10	1		(#)	●				
9	130.310	0750 116 165	50 01 821 522	Bearing D.80x110x16	1		(@)	●				
10	150.141	1304 332 060	50 00 293 509	Carrier Hub 86 T	1		AB (#)	●				
10	150.135	1304 332 215	50 01 853 868	Carrier Hub 86 T	1		AB (@)	●				
10	150.164	1304 332 135		Carrier Hub 90 T	1		CD (#)	●				
10	150.166	1304 332 216		Carrier Hub 90 T	1		CD (@)	●				
10	150.139	1304 332 044	50 01 839 038	Carrier Hub 74 T	1		E (#)	●				
10	150.167	1304 332 217	50 01 850 312	Carrier Hub 74 T	1		E (@)	●				
11	111.264	0730 505 140	50 01 825 015	Locking Wire	1		ABCD	●				
11	111.265	0730 505 092	50 01 850 599	Locking Wire	1		E	●				
12	198.817	1304 233 005	50 00 293 513	Synchronizer Cone	1		(#)	●				
12	198.796	1304 233 006	50 01 850 320	Synchronizer Cone	1		(@)	●				
13	119.157	1304 333 005	50 00 819 843	Synchronizer Ring	2	Old Type	(#)	●				
13	119.171	1304 333 021		Synchronizer Ring	2	New Type	(#)	●				
13	119.085	1296 333 022	50 00 289 824	Synchronizer Ring	2	Old Type	(@)	●				
13	119.172	1296 333 045	50 01 846 736	Synchronizer Ring	2	New Type	(@)	●				
14	157.205	1304 332 066	50 00 819 842	Synchronizer Hub	1		(#)	●				
14	157.182	1313 333 001	50 01 831 875	Synchronizer Hub	1		(@)	●				
15	154.210	1304 332 089	50 00 819 844	Sliding Sleeve	1		(#)	●				
15	154.201	1304 333 011	50 01 850 321	Sliding Sleeve	1		(@)	●				
16	160.116	1240 304 278	50 00 255 276	Pressure Piece	6		(#)	●				
17	156.037	0732 040 385	77 01 007 805	Outer Spring De.6x34	6		(#)	●				
18	109.183	1304 332 075	50 00 819 846	Synchronizer Cone	1		(#)	●				
18	109.393	1304 233 013	50 01 850 322	Synchronizer Cone	1		(@)	●				
19	109.397	1304 313 133		Synchronizer Cone	1	with retarder	(#)	●				
19	109.173	1304 232 085		Synchronizer Cone	1	with retarder	(@)	●				
20	130.690	0750 116 048	50 00 819 826	Roller Bearing D.78x130x25	1		(#)	●				
20		0750 116 197		Bearing D.80x140x26	1		(@)	●				
21		0734 319 439	50 01 824 954	Oil seal D.95x115x10	1			●				
22		1304 338 059		Output Flange	1	D.150-4H.	(#)	●				
22		1304 338 050	50 01 846 987	Output Flange	1	D.180-4H.	(#)	●				
22		1304 338 052		Output Flange	1	D.180-10H.	(#)	●				

Notes

- @) Different versions.To be coupled together. DO NO MIX

Date

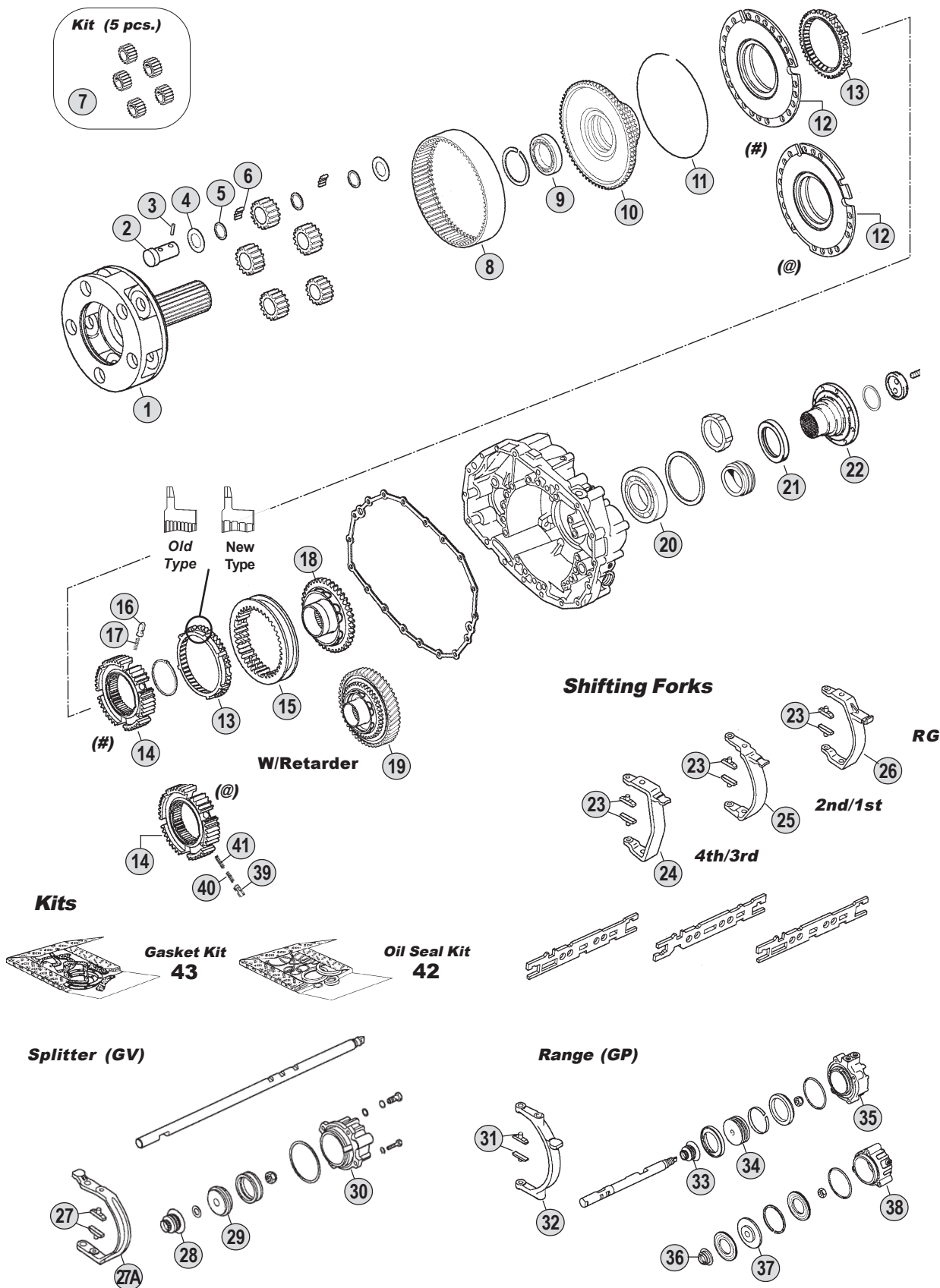
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Table

0160 / B

Suitable To : **ZF**

16S109



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Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	R.V.I. no.										
22		1304 338 056	50 01 838 929	Output Flange	1	D.204-4H.	(#)	●					
22		1304 338 097	50 01 850 318	Output Flange	1	D.180-4H.	(@)	●					
22		1304 338 109	50 01 856 595	Output Flange	1	D.180-4H.	(@)	●					
23	141.194	1290 306 066	50 00 813 892	Bronze Slide	2			●					
24		1304 306 010	50 01 839 024	Fork	1			●					
24		1304 306 044		Fork	1			●					
25		1304 306 009	50 00 819 779	Fork	1			●					
25		1304 306 043	50 00 293 437	Fork	1			●					
26		1304 306 011	50 01 823 868	Fork	1			●					
27	141.146	1268 312 057	50 01 001 098	Slide	2			●					
27A		1304 312 003	50 01 839 030	Fork	1			●					
28		0750 112 047	50 00 819 848	Oil seal	1			●					
29	189.421	1296 312 053	50 01 838 900	Piston	1			●					
30		1304 212 005	50 01 843 642	Cylinder	1			●					
31	141.061	1272 334 003	50 00 559 643	Bronze Slide	2			●					
32		1304 334 039	50 00 819 852	Fork	1		(#)	●					
32		1304 334 063	50 01 850 329	Fork	1		(@)	●					
33		0750 112 047	50 00 819 848	Oil seal	1		(#)	●					
34		1304 334 072	50 01 832 716	Piston	1		(#)	●					
35		1304 334 061	50 01 014 987	Cylinder	1		(#)	●					
36		0750 112 047	50 00 819 848	Oil seal	1		(@)	●					
37		1315 334 041	50 01 850 324	Piston	1		(@)	●					
38		1304 334 079	50 01 850 327	Cylinder	1		(@)	●					
39	160.116	1240 304 278	50 00 255 276	Pressure Piece	9		(@)	●					
40	156.037	0732 040 385	77 01 007 805	Outer Spring De.6x34	9		(@)	●					
41	156.036	0732 040 386	50 00 255 277	Inner Spring De.3x34	9		(@)	●					
42	298.026	1304 298 908	50 00 293 704	Oil Seal Kit	1			●					
43	198.945	1304 298 914	50 01 014 897	Gasket Kit	1			●					

Notes

(# - @) Different versions.To be coupled together. DO NO MIX

Date

07 / 2006

Table

0160 / B

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Gearboxes Index

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Bus Applications

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16S109

suitable to :

Z.F.

EcoLite

S6-85

Application

	S6-85	6S-1600				
	(1310)	(1310)				
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

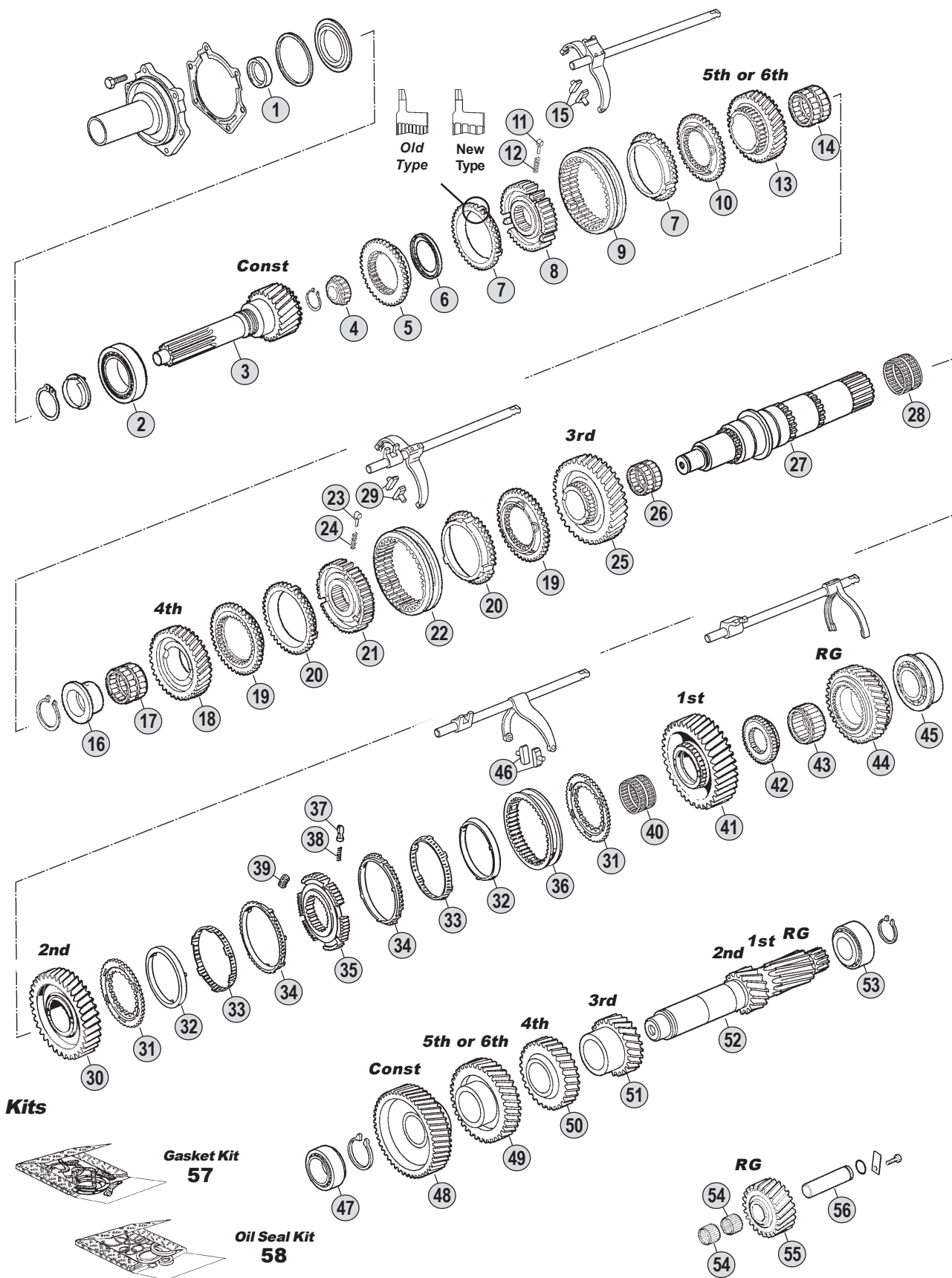
Ratio	Note
6,75-0,83	A
7,72-1,00	B

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ECOLITE
S6-85

Suitable To : **ZF**

S6-85



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Ratios

S6-85 A : 6,75 - 0,83 B : 7,72 - 1,00

S6-85 (1310)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	DAF no.					S6-85 (1310)					
1	139.753	0750 111 149	699617	Oil Seal D.48x65x10	1			●					
2	130.704	0750 117 347	1348203	Bearing D.70x115x29	1			●					
3	102.387	1310 302 001		Input Shaft	1		A	●					
3	102.388	1310 302 025		Input Shaft	1		A	●					
3	102.389	1310 302 032		Input Shaft	1		A	●					
3	102.390	1310 302 026		Input Shaft	1		B	●					
3	102.391	1310 302 022	1191318	Input Shaft	1		B	●					
3	102.392	1310 302 021		Input Shaft	1		B	●					
3	102.393	1310 302 033		Input Shaft	1		B	●					
4		0750 117 562	1313779	Bearing D.28x32	1			●					
5	109.400	1310 302 023		Synchronizer Cone	1		A	●					
5	109.401	1310 302 024	1191319	Synchronizer Cone	1		B	●					
6	269.011	0501 313 171	1191320	Oil Seal	1			●					
7	119.219	1311 304 076	1313777	Synchronizer Ring	2	Old Type		●					
7	119.220	1311 304 255	1386219	Synchronizer Ring	2	New Type		●					
8	157.706	1311 304 226	1313775	Synchronizer Hub	1			●					
9	154.363	1304 304 664	1315541	Sliding Sleeve	1			●					
10	109.402	1311 304 009	1313715	Synchronizer Cone	1			●					
11	160.189	1297 304 436	68332	Pressure Piece	3			●					
12	156.140	0732 040 409	171349	Spring D.6,5x23,5	3			●					
13	145.886	1310 304 091		Gear 6th Speed 23 T	1		A	●					
13	145.887	1310 304 092	1191436	Gear 5th Speed 26 T	1		B	●					
14	137.269	0735 321 543	1191435	Needle Cage D.52x60x23	1			●					
15	141.194	1290 306 066	689470	Bronze Slide	2			●					
16	117.384	1311 304 124	1191428	Bush	1			●					
17	137.078	0735 320 493	1191429	Needle Bearing D.70x78x36,50	1			●					
18	145.888	1310 304 088		Gear 4th Speed 29 T	1		A	●					
18	145.889	1310 304 093	1191430	Gear 4th Speed 30 T	1		B	●					
19	109.134	1312 304 027	69584	Synchronizer Cone	2			●					
20	119.119	1297 304 402	66373	Synchronizer Ring	2	Old Type		●					
20	119.167	1297 304 484	1342731	Synchronizer Ring	2	New Type		●					
21	157.707	1310 304 080	1313772	Synchronizer Hub	1			●					
22	154.135	1310 304 202	1377181	Sliding Sleeve	1			●					
23	160.189	1297 304 436	68332	Pressure Piece	3			●					
24	156.140	0732 040 409	171349	Spring D.6,5x23,5	3			●					
25	145.890	1310 304 085		Gear 3rd Speed 35 T	1		A	●					
25	145.891	1310 304 124	1191374	Gear 3rd Speed 37 T	1		B	●					
26	137.270	0735 321 106	1191362	Needle Cage D.80x88x48	1			●					
27	103.195	1311 304 248	1191361	Main Shaft	1			●					
28	137.270	0735 321 106	1191362	Needle Cage D.80x88x48	1			●					
29	141.194	1290 306 066	689470	Bronze Slide	2			●					
30	145.892	1310 304 012	1191363	Gear 2nd Speed 43 T	1			●					
31	109.176	1312 304 106	1227005	Synchronizer Cone	2			●					
32	119.152	1268 304 424	1227006	Intermediate Ring	2			●					
33	119.153	1268 304 494	1377179	Intermediate Cone	2			●					

Notes

Date

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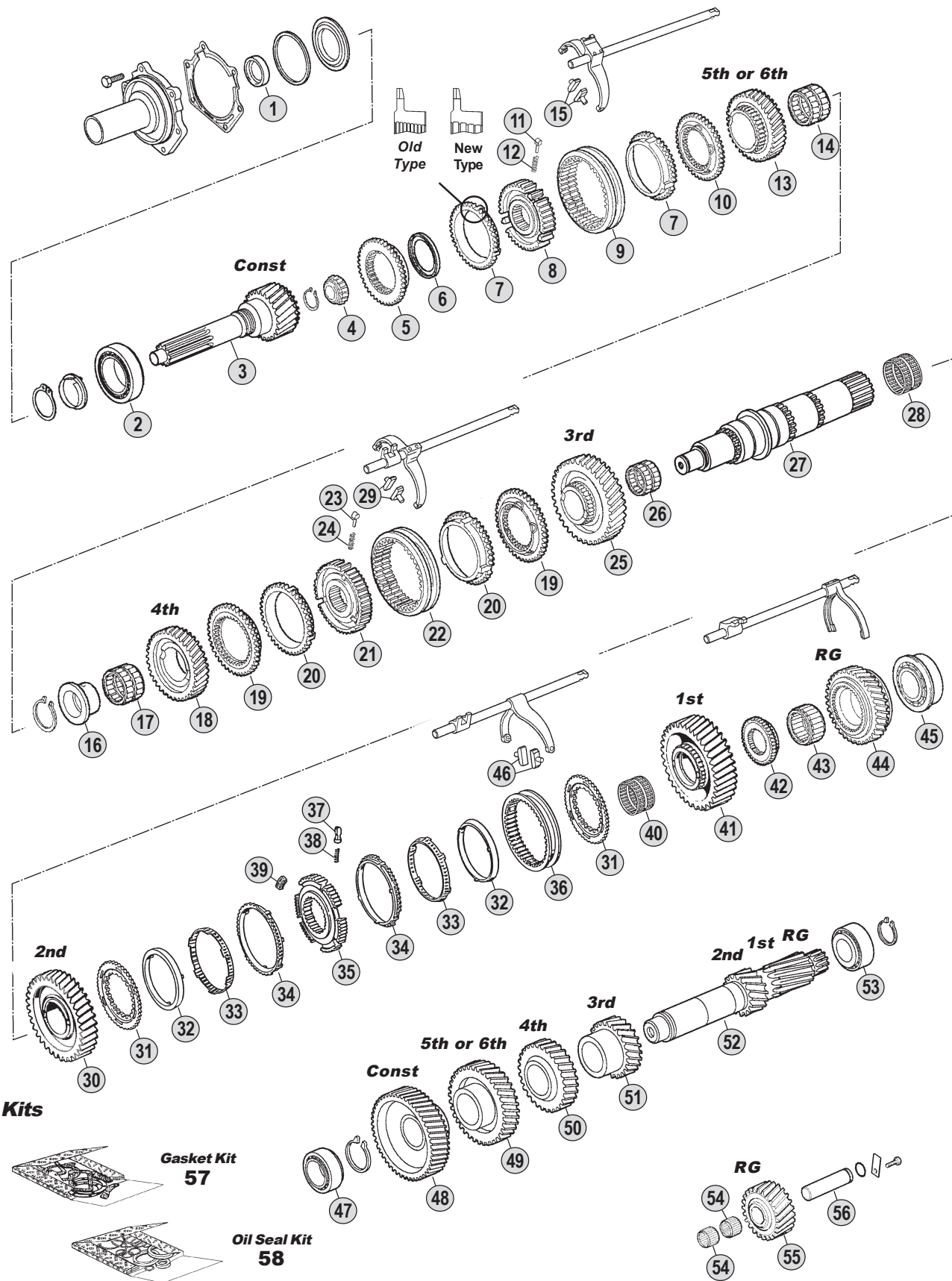
Table

0170

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Suitable To : **ZF**

S6-85



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Ratios

S6-85 A : 6,75 - 0,83 B : 7,72 - 1,00

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	DAF no.					S6-85 (1310)			
34	119.144	1268 304 525	1227008	Synchronizer Ring	2		●				
35	157.708	1310 304 157	1191365	Synchronizer Hub	1		●				
36	154.190	1310 304 175	1353770	Sliding Sleeve	1		●				
37	160.189	1297 304 436	68332	Pressure Piece	3		●				
38	156.140	0732 040 409	171349	Spring D.6,5x23,5	3		●				
39	156.176	1312 304 159	1300312	Pad	3		●				
40	137.271	0735 321 108	1191366	Needle Cage D.75x83x50	1		●				
41	145.893	1310 304 011	1191367	Gear 1st Speed 50 T	1		●				
42	157.709	1311 304 250	1191368	Synchronizer Hub	1		●				
43	137.272	0735 298 255	1433227	Needle Cage D.70x86x42,5	1		●				
44	147.238	1310 304 200	1366747	Reverse Gear	1		●				
45	130.705	0735 370 730	1191371	Bearing D.60x120x29,7	1		●				
46	141.194	1290 306 066	689470	Bronze Slide	2		●				
47	130.234	0750 117 083	586693	Bearing D.50,8x95,2x27,7	1		●				
48	146.600	1310 303 032		Constant Gear 47 T	1		●	A			
48	146.605	1310 303 044	1191353	Constant Gear 50 T	1		●	B			
49	146.609	1310 303 033		Gear 6th Speed 45 T	1		●	A			
49	146.610	1310 303 045	1191352	Gear 5th Speed 37 T	1		●	B			
50	146.611	1310 303 051		Gear 4th Speed 32 T	1		●	A			
50	146.612	1310 303 050	1191351	Gear 4th Speed 29 T	1		●	B			
51	146.613	1310 303 031		Gear 3rd Speed 24 T	1		●	A			
51	146.614	1310 303 052	1191350	Gear 3rd Speed 24 T	1		●	B			
52	105.191	1310 303 076		Countershaft	1		●				
53	130.233	1246 203 008	586694	Roller Bearing D.44,45x95,25x28	1		●				
54	137.273	0750 115 233	69132	Needle Cage D.30x38x30	2		●				
55	147.239	1310 305 003	1191314	Reverse Gear 21 T	1		●				
56	107.201	1310 305 001	69133	Reverse Pin	1		●				
57	298.039	1310 298 002	1191308	Gasket Kit	1		●				
58	298.040	1310 298 003	1191309	Oil Seals Kit	1		●				

Notes

Date

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Table

0170

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suitable to :

Z.F.

EcoLite

6S-1600

Application

	6S-85 (1310)	6S-1600 (1310)				
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

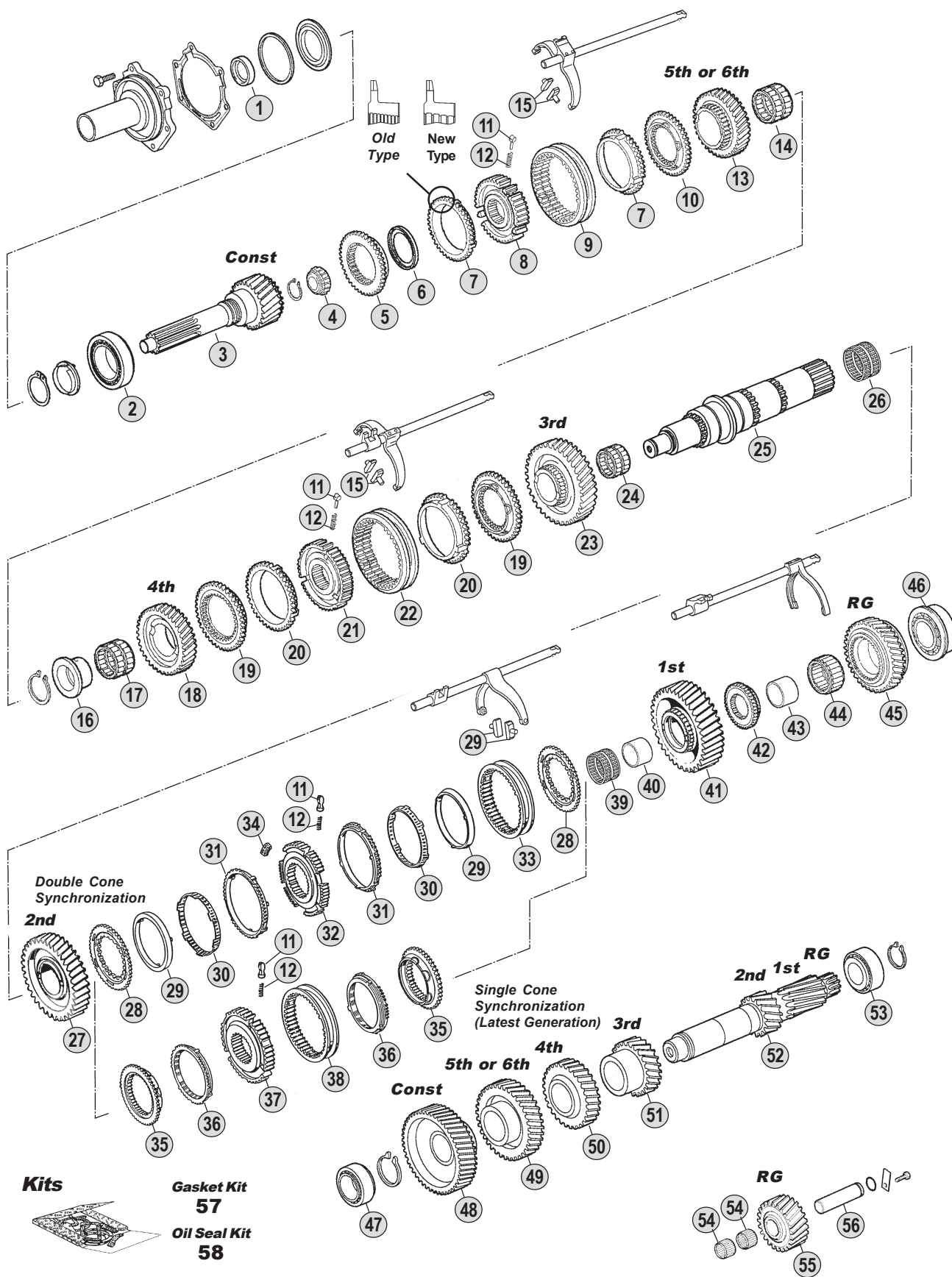
Ratio	Note
6,32-0,81	A
7,72-1,00	B

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ECOLITE
6S-1600

Suitable To : **ZF**

6S-1600



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Ratios

S6-1600 A : 6,32 - 0,81 B : 7,72 - 1,00

6S-1600 (1310)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	DAF no.					6S-1600	(1310)					
1	139.754	0734 310 386	1360734	Oil Seal D.55x75x8	1		●							
2	130.706	0750 117 518		Roller Bearing D.71,4x120x32,5	1		●							
3	102.394	1310 302 094		Input Shaft 31 T	1		●	A						
3	102.395	1310 302 097		Input Shaft 31 T	1		●	A						
3	102.396	1310 302 089		Input Shaft 31 T	1		●	A						
3	102.397	1310 302 088		Input Shaft 27 T	1		●	B						
3	102.398	1310 302 090		Input Shaft 27 T	1		●	B						
3	102.399	1310 302 096		Input Shaft 27 T	1		●	B						
3	102.400	1310 302 092		Input Shaft 27 T	1		●	B						
3	102.401	1310 302 082		Input Shaft 27 T	1		●	B						
4	137.150	0750 117 232	69589	Roller Cage D.42x81x40,30	1		●							
5	109.403	1310 302 045		Synchronizer Cone	1		●							
6		0501 315 236		Ring	1		●							
7	119.118	1268 304 445	67096	Synchronizer Ring	2	Old Type	●							
7	119.142	1268 304 594	1349551	Synchronizer Ring	2	New Type	●							
8	157.710	1310 304 158		Synchronizer Hub	1		●							
9	154.371	1310 304 195		Sliding Sleeve	1		●							
10	109.404	1310 304 161		Synchronizer Cone	1		●							
11	160.189	1297 304 436	68332	Pressure Piece	3		●							
12	156.140	0732 040 409	171349	Spring D.6,5x23,5	3		●							
13	145.894	1310 304 138		Gear 6th Speed 23 T	1		●	A						
13	145.895	1310 304 137		Gear 5th Speed 27 T	1		●	B						
14	137.274	0735 321 396		Needle Cage D.65x73x48	1		●							
15	141.194	1290 306 066	689470	Bronze Slide	2		●							
16		0730 162 753		Bush	1		●							
17	137.275	0735 321 392		Needle Cage D.85x93x44	1		●							
18	145.896	1310 304 178		Gear 4th Speed 28 T	1		●	A						
18	145.897	1310 304 177		Gear 4th Speed 28 T	1		●	B						
19	109.134	1312 304 027	69584	Synchronizer Cone	2		●							
20	119.119	1297 304 402	66373	Synchronizer Ring	2	Old Type	●							
20	119.167	1297 304 484	1342731	Synchronizer Ring	2	New Type	●							
21	157.180	1312 304 052	69585	Synchronizer Hub	1		●							
22	154.135	1310 304 202	1377181	Sliding Sleeve	1		●							
23	145.898	1310 304 186		Gear 3rd Speed 34 T	1		●	A						
23	145.899	1310 304 185		Gear 3rd Speed	1		●	B						
24	137.276	0735 321 432		Needle Cage D.92x100x49,5	1		●							
25	103.196	1310 304 189		Main Shaft	1		●							
26	137.276	0735 321 432		Needle Cage D.92x100x49,5	1		●							
27	145.900	1310 304 196		Gear 2nd Speed 43 T	1		●							
28	109.176	1312 304 106	1227005	Synchronizer Cone	2		●							
29	119.152	1268 304 424	1227006	Intermediate Ring	2		●							
30	119.153	1268 304 494	1377179	Intermediate Cone	2		●							
31	119.144	1268 304 525	1227008	Synchronizer Ring	2		●							
32	157.181	1312 304 158	1250147	Synchronizer Hub	1		●							
33	154.190	1310 304 175	1353770	Sliding Sleeve	1		●							

Notes

(*) Latest Models only. Do NO MIX Single Cone Synchron. with Double Cone Synchron.

Date

07 / 2006

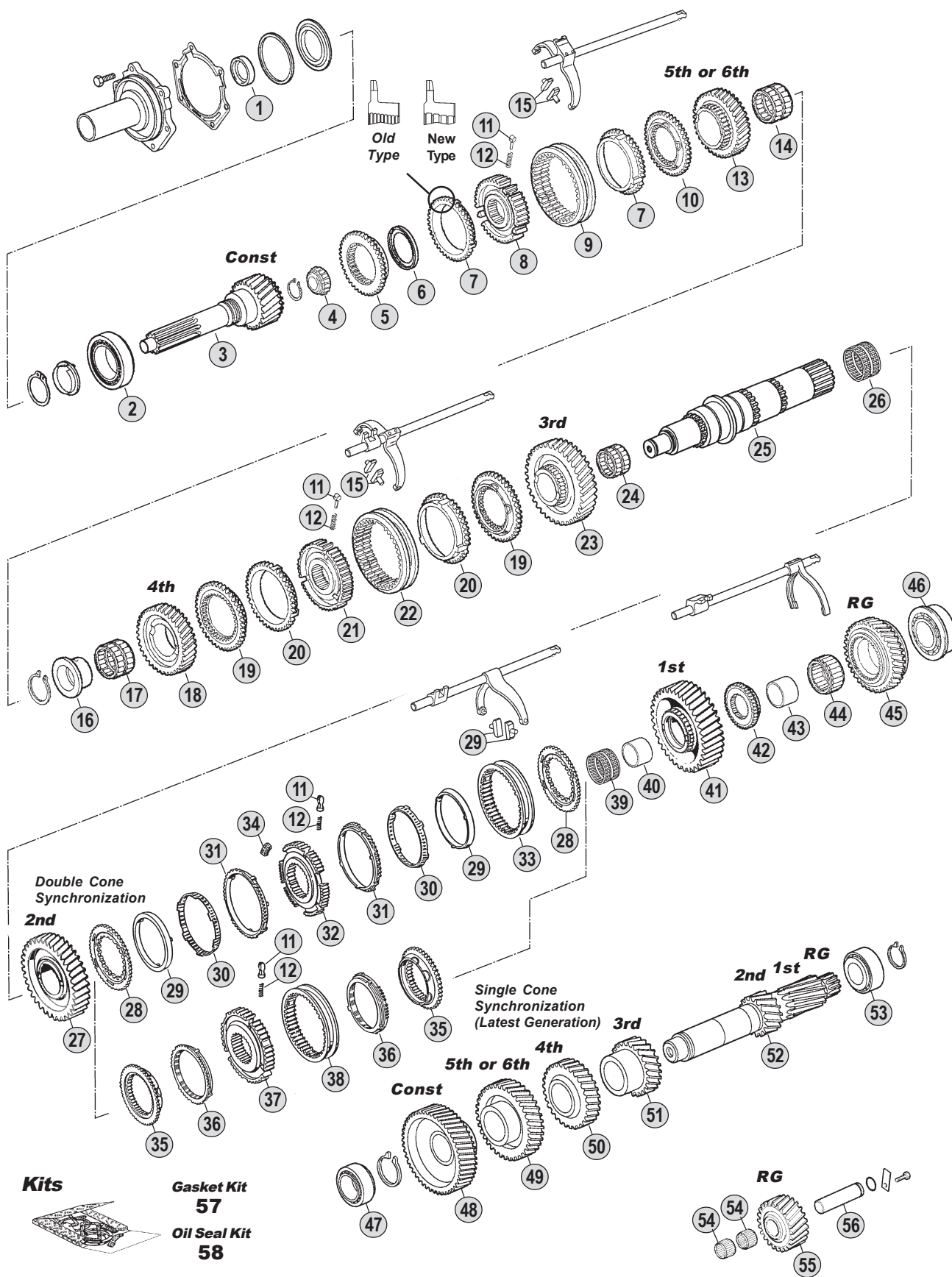
Table

0180

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Suitable To : **ZF**

6S-1600



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Ratios

S6-1600 A : 6,32 - 0,81 B : 7,72 - 1,00

6S-1600 (1310)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	DAF no.										
34	156.176	1312 304 159	1300312	Pad	3			●					
35	109.132	1313 304 009	69572	Synchronizer Cone	2		(*)	●					
36	119.122	1297 304 401	66365	Synchronizer Ring	2	Old Type	(*)	●					
36	119.166	1297 304 485	1360740	Synchronizer Ring	2	New Type	(*)	●					
37	157.189	1313 304 008	69570	Synchronizer Hub	1		(*)	●					
38	154.202	1316 304 078	1360725	Sliding Sleeve	1		(*)	●					
39	137.276	0735 321 432		Needle Cage D.92x100x49,5	1			●					
40		0735 295 148		Bush	1			●					
41	145.901	1310 304 182		Gear 1st Speed 50 T	1			●					
42	157.711	1310 304 188		Hub	1			●					
43		0750 119 131		Bush	1			●					
44	137.277	0735 321 394		Needle Cage D.82x90x47	1			●					
45	147.240	1310 304 201		Reverse Gear	1			●					
46	130.706	0750 117 518		Roller Bearing D.71,4x120x32,5	1			●					
47	130.234	0750 117 083	586693	Bearing D.50,8x95,2x27,7	1			●					
48	146.615	1310 303 069		Constant Gear 47 T	1		A	●					
48	146.616	1310 303 068		Constant Gear 50 T	1		B	●					
49	146.617	1310 303 059		Gear 6th Speed 43 T	1		A	●					
49	146.618	1310 303 074		Gear 5th Speed 39 T	1		B	●					
50	146.619	1310 303 062		Gear 4th Speed 32 T	1		A	●					
50	146.620	1310 303 075		Gear 4th Speed 29 T	1		B	●					
51	146.621	1310 303 072		Gear 3rd Speed	1		A	●					
51	146.622	1310 303 073		Gear 3rd Speed	1		B	●					
52	105.192	1310 303 053		Countershaft	1			●					
53	130.233	1246 203 008	586694	Roller Bearing D.44,45x95,25x28	1			●					
54	137.273	0750 115 233	69132	Needle Cage D.30x38x30	2			●					
55	147.241	1310 305 011		Reverse Gear	1			●					
56	107.201	1310 305 001	69133	Reverse Pin	1			●					
57	298.041	1310 298 018		Gasket Kit	1			●					
58	298.042	1310 298 020		Oil Seals Kit	1			●					

Notes

(*) Latest Models only. Do NO MIX Single Cone Synchron. with Double Cone Synchron.

Date

07 / 2006

Table

0180

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suitable to :

Z.F.

EcoMid

6S150C

Application

	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

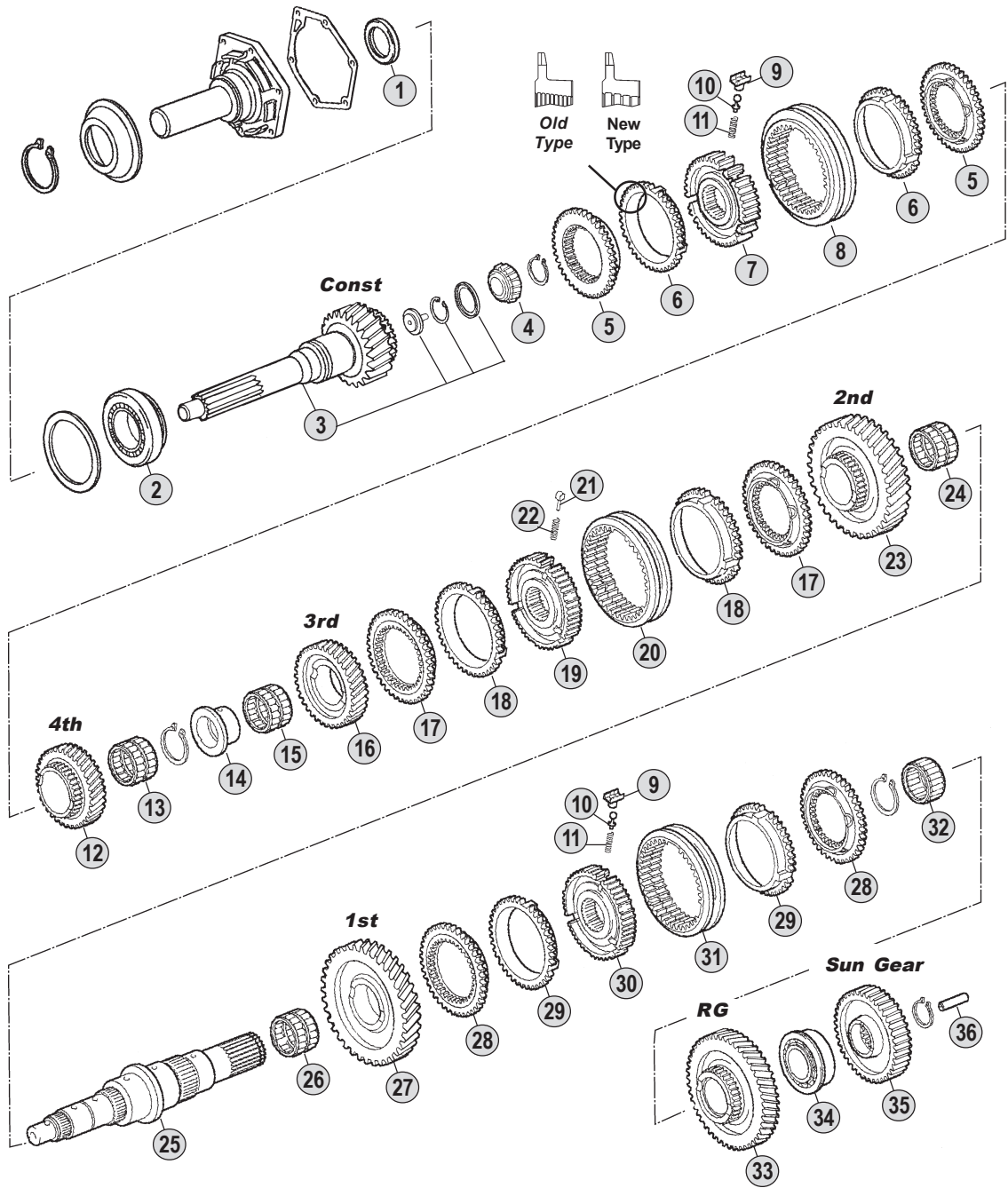
Ratio	Note
7,02-0,81	A
8,07-1,00	B
8,65-1,00	C
8,66-1,00	D

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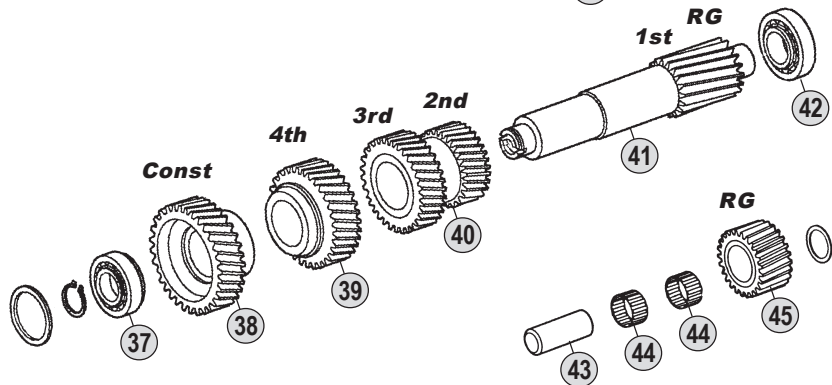
ECOMID
6S150C

Suitable To : **ZF**

6S150C



Kits



Ratios

6S150C A : 7,02 - 0,81 B : 8,07 - 1,00 C : 8,65 - 1,00 D : 8,66 - 1,00

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6S150C (13304)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.					DAF no.	6S150C	(13304)				
1		0734 310 230		Oil seal D.55x72x10	1	(1)	●						
1	139.753	0750 111 149	699617	Oil Seal D.48x65x10	1	(2)	●						
2		0735 370 462		Roller bearing D.73x117,4x30,1	1	(1)	●						
2	130.313	0750 117 079	699615	Bearing D.66,6x117,4x30,1	1	(2)	●						
3		1304 202 186		Input Shaft 28 T	1	(1)	A	●					
3		1304 202 188		Input Shaft 28 T	1	(2)	A	●					
3	102.345	1304 202 190		Input Shaft 28 T	1	(2)	A	●					
3	102.344	1304 202 193	1364594	Input Shaft	1	(2)	B	●					
3		1304 202 182		Input Shaft 25 T	1	(1)	CD	●					
3		1304 202 247		Input Shaft 25 T	1	(1)	CD	●					
3		1304 202 184	699614	Input Shaft 25 T	1	(2)	CD	●					
3	102.346	1304 202 185		Input Shaft 25 T	1	(2)	CD	●					
4	130.683	0735 371 748	1197999	Needle Bearing D.32x29,5	1		●						
5	109.391	1304 304 660	1317295	Synchronizer Cone	2		●						
6	119.150	1304 304 014	699659	Synchronizer Ring	2	Old Type	●						
6	119.169	1304 304 683	1363793	Synchronizer Ring	2	New Type	●						
7	157.697	1304 304 051	699660	Synchronizer Hub	1		●						
8	154.361	6002 305 515	68516	Sliding Sleeve	1		●						
9	188.096	1238 304 394	171350	Pressure Piece	3		●						
10	160.143	1249 304 222	171351	Plunger	3		●						
11	156.140	0732 040 409	171349	Spring D.6,5x23,5	3		●						
12	145.821	1304 304 479		Gear 4th Speed 25 T	1		A	●					
12	145.819	1304 304 480	699681	Gear 4th Speed	1		B	●					
12	145.822	1304 304 478	699655	Gear 4th Speed 28 T	1		CD	●					
13	137.258	0735 321 011	68514	Needle Cage 60x68x23	1		●						
14	117.377	1304 304 050	699651	Bush	1		●						
15	137.074	0750 115 227	699652	Needle Bearing D.75x83x40	1		●						
16	145.820	1304 304 461	699653	Gear 3rd Speed 31 T	1		ACD	●					
16	145.818	1304 304 463	699669	Gear 3rd Speed 29 T	1		B	●					
17	109.171	1304 304 408	699642	Synchronizer Cone	2		●						
18	119.151	1304 304 542	67762	Synchronizer Ring	2	Old Type	●						
18	119.170	1304 304 681	1352001	Synchronizer Ring	2	New Type	●						
19	157.696	1304 304 591	68331	Synchronizer Hub	1		●						
20	154.200	1304 304 597	68512	Sliding Sleeve 1st-2nd Speed	1		●						
21	160.189	1297 304 436	68332	Pressure Piece	3		●						
22	156.140	0732 040 409	171349	Spring D.6,5x23,5	3		●						
23	147.222	1304 304 486		Gear 2nd Speed	1		AC	●					
23	147.220	1304 304 464		Gear 2nd Speed 33 T	1		B	●					
23	147.224	1304 304 462	699641	Gear 2nd Speed 34 T	1		D	●					
24	137.142	0735 320 816	699640	Needle Cage D.75x83x23	1		●						
25	103.190	1304 304 449	699627	Main Shaft	1		●						
26	137.257	0735 320 500	100181	Needle Cage D.75x83x35	1		●						
27	145.817	1304 304 430	699628	Gear 1st Speed 37 T	1		●						
28	109.390	1304 304 445	699629	Synchronizer Cone	2		●						
29	119.072	1238 304 420	607198	Synchronizer Ring	2	Old Type	●						

Notes

- (1) To be coupled together. **DO NO MIX**
(2) To be coupled together. **DO NO MIX**

Date

07 / 2006

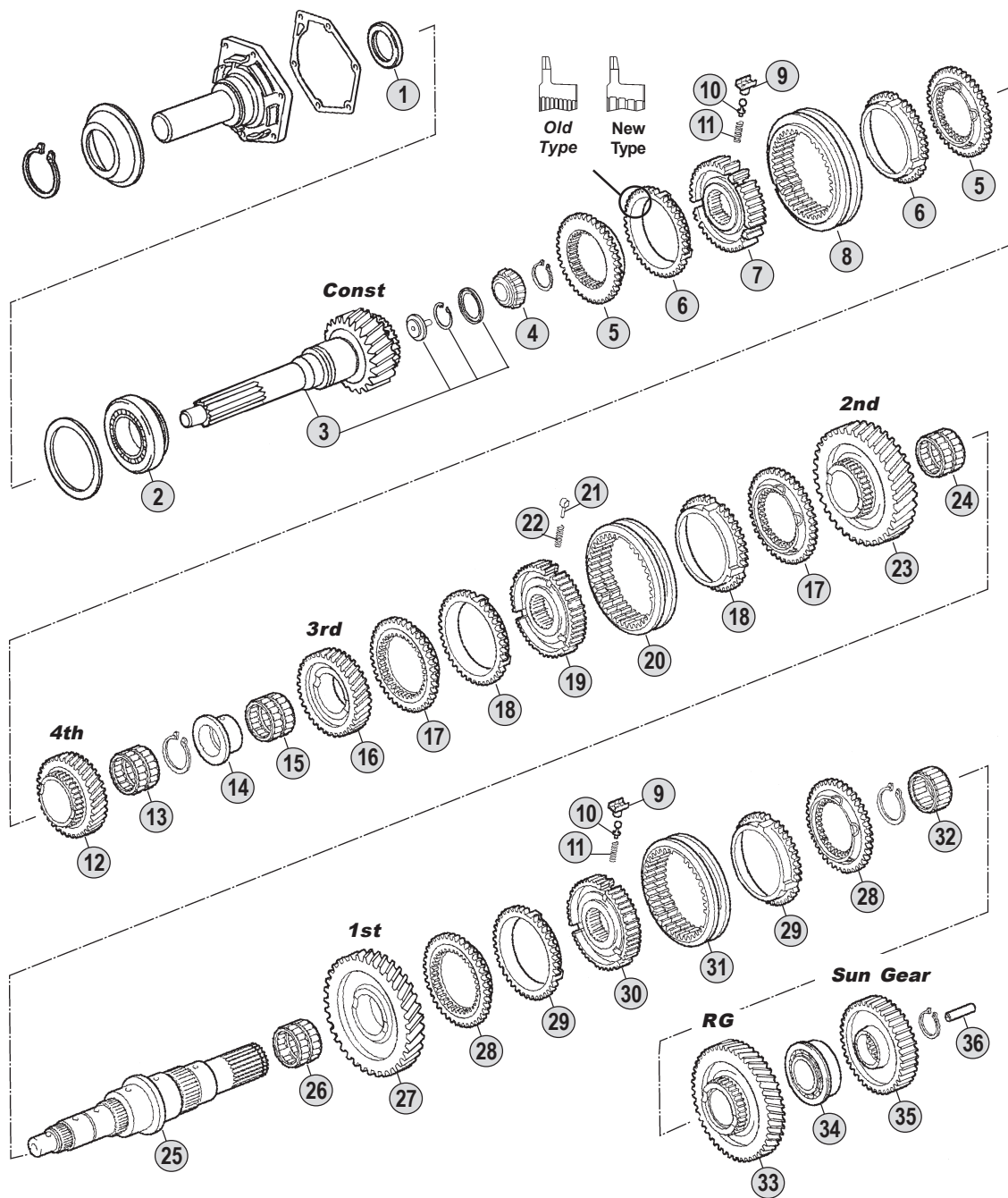
Table

0190 / A

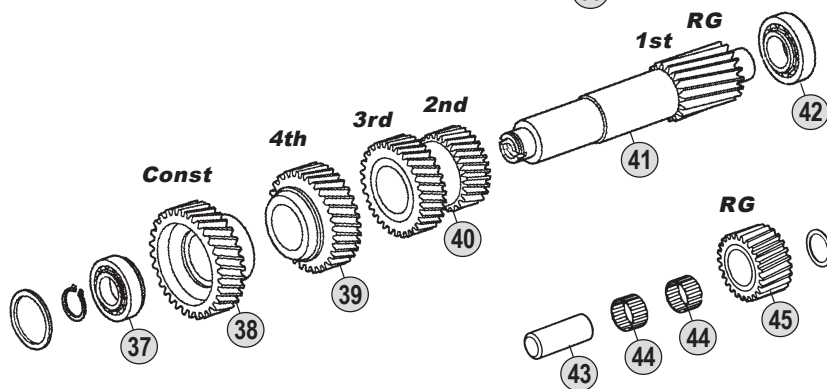
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Suitable To : **ZF**

6S150C



Kits



Ratios

6S150C A : 7,02 - 0,81 B : 8,07 - 1,00 C : 8,65 - 1,00 D : 8,66 - 1,00

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.					DAF no.				
29	119.138	1290 304 473	1344419	Synchronizer Ring	2	New Type	●				
30	157.694	1304 304 655		Synchronizer Hub	1		●				
31	154.360	1304 304 394	699631	Sliding Sleeve	1		●				
32	137.147	0750 115 225	699635	Needle Cage D.60x68x39	1		●				
33	147.219	1304 304 446	699636	Reverse Gear 32 T	1		●				
34	130.315	0735 371 605	1305820	Bearing D.50,8x104,7x30,1	1		●				
35	157.695	1304 304 452	699638	Sun Gear 79 T	1		●				
36	188.209	1312 304 150	1246838	Oil Tube	1		●				
37	130.314	0735 371 749	1197998	Bearing D.40x80x32	1		●				
38	146.582	1304 303 218		Constant Gear 30 T	1		●	A			
38	146.581	1304 303 219	699650	Constant Gear	1		●	B			
38	146.583	1304 303 217	699623	Constant Gear 33 T	1		●	CD			
39	147.223	1304 303 224		Gear 4th Speed 33 T	1		●	A			
39	147.221	1304 303 225	699646	Gear 4th Speed	1		●	B			
39	147.225	1304 303 223	699622	Gear 4th Speed 30 T	1		●	CD			
40	143.117	1304 303 230		Double Gear 3rd/2nd Speed	1		●	AC			
40	143.116	1304 303 207	699645	Double Gear 3rd/2nd Speed	1		●	B			
40	143.118	1304 303 206	699621	Double Gear 3rd/2nd Speed	1		●	D			
41	105.183	1304 303 119	699619	Countershaft 14 T	1		●				
42	130.234	0750 117 083	586693	Bearing D.50,8x95,2x27,7	1		●				
43	107.156	1304 305 030	699607	Reverse Shaft	1		●				
44	137.143	0735 358 192	699608	Needle Cage D.40x60x26	2		●				
45		1304 305 024	699606	Reverse Gear 22 T	1		●				
46	298.026	1304 298 908	1344715	Oil Seal Kit	1		●				
47	198.945	1304 298 914	1363925	Gasket Kit	1		●				

Notes

- (1) To be coupled together. **DO NO MIX**
 (2) To be coupled together. **DO NO MIX**

Date

07 / 2006

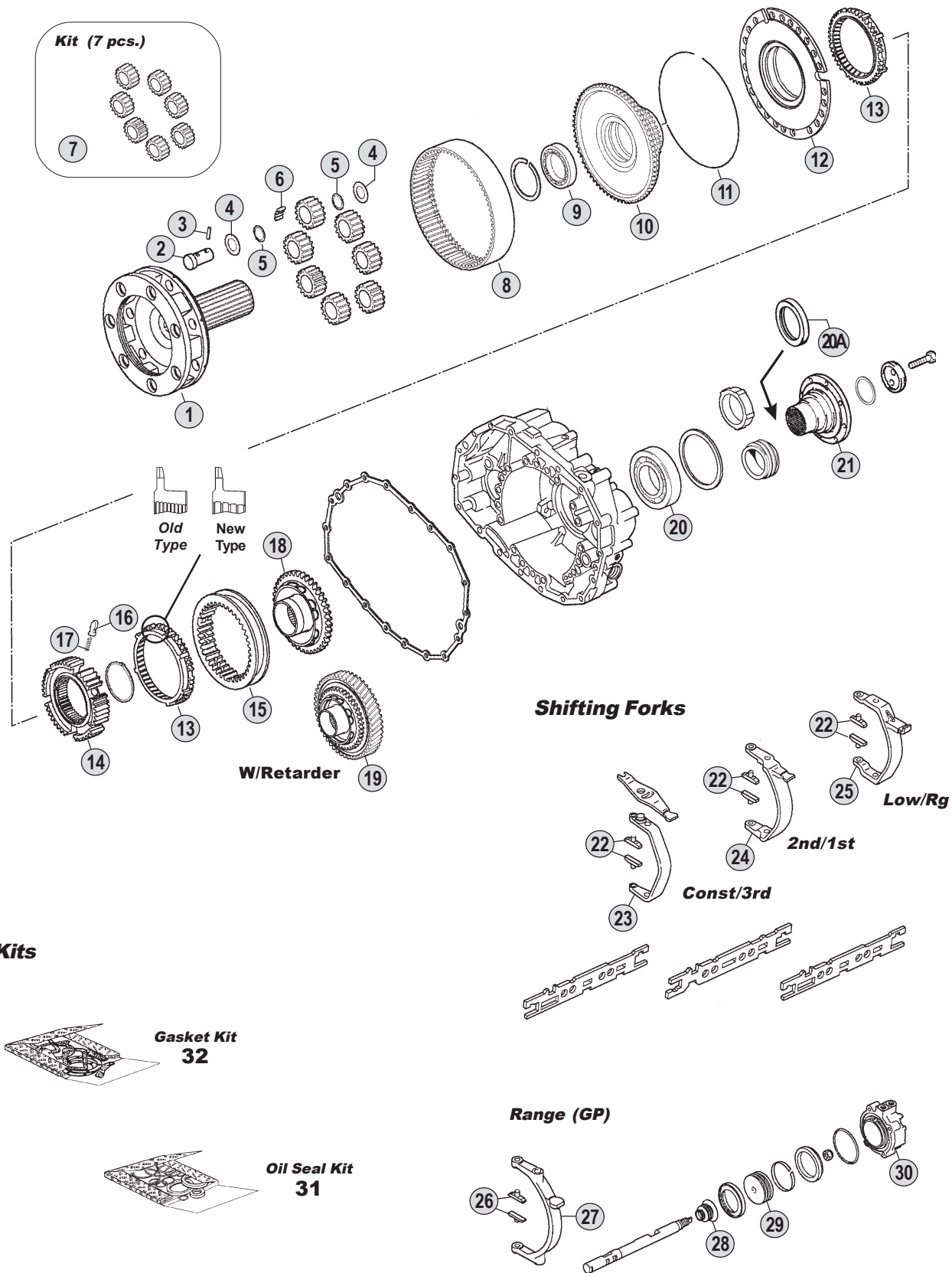
Table

0190 / A

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Suitable To : **ZF**

6S150C



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Ratios

6S150C A : 7,02 - 0,81 B : 8,07 - 1,00 C : 8,65 - 1,00 D : 8,66 - 1,00

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					Daf no.	6S150C	(13004)					
1	190.386	1304 232 028		Planetary Carrier	1		●							
2	107.203	1304 332 070		Planet Pin	7		●							
3	160.238	0631 329 127	119283	Lock Pin 4x16	7		●							
4	269.005	0501 309 496	699715	Thrust Washer	14		●							
5	269.004	0730 105 881	699714	Spacer Ring 1,50	14		●							
6	171.061	0735 470 016		Needle D.4x21,8	126		●							
7	298.016	1304 232 029		Planetary Gear Set	1		●							
8	123.264	1304 332 072		Crown Gear 117 T	1		●							
9	130.265	0735 340 080	699719	Bearing D.70x90x10	1		●							
10	150.163	1304 332 071		Carrier Hub	1		●							
11	111.175	0730 505 053	696567	Locking Wire 2,50	1		●							
12	198.817	1304 233 005	699727	Synchronizer Cone	1		●							
13	119.157	1304 333 005	699729	Synchronizer Ring	2	Old Type	●							
13	119.171	1304 333 021		Synchronizer Ring	2	New Type	●							
14	157.205	1304 332 066	699728	Synchronizer Hub	1		●							
15	154.210	1304 332 089	699730	Sliding Sleeve	1		●							
16	160.116	1240 304 278	326962	Pressure Piece	6		●							
17	156.037	0732 040 385	326963	Outer Spring De.6x34	6		●							
18	109.183	1304 332 075	699731	Synchronizer Cone	1		●							
19	109.397	1304 313 133	1227513	Synchronizer Cone	1	with retarder	●							
20	130.690	0750 116 048	699706	Roller Bearing D.78x130x25	1		●							
20A		0734 319 439	1262887	Oil seal D.95x115x10	1		●							
21		1304 338 066		Output Flange	1	D.150-4H.	●							
21		1304 338 019	699722	Output Flange	1	D.165-8H.	●							
21		1304 338 035		Output Flange	1	D.180-8H.	●							
21		1304 338 047	68005	Output Flange	1	D.180-10H.	●							
21		1304 343 053		Output Flange	1	with TELMA ret.	●							
21		1304 343 060	1252345	Output Flange	1	with TELMA ret.	●							
22	141.194	1290 306 066	689470	Bronze Slide	2		●							
23		1304 306 010	699666	Fork	1		●							
23		1304 306 044	699755	Fork	1		●							
23		1304 306 096	1212167	Fork	1		●							
24		1304 306 009	699668	Fork	1		●							
24		1304 306 043	699754	Fork	1		●							
25		1304 306 065	699670	Fork	1		●							
26	141.061	1272 334 003	140936	Bronze Slide	2		●							
27		1304 334 039	699739	Fork	1		●							
28		0750 112 047	699733	Oil seal	1		●							
29		1304 334 072	1299322	Piston	1		●							
30		1304 334 061	1246832	Cylinder	1		●							
31	298.026	1304 298 908	1344715	Oil Seal Kit	1		●							
32	198.945	1304 298 914	1363925	Gasket Kit	1		●							

Notes

Date

07 / 2006

Table

0190 / B

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suitable to :

Z.F.

EcoMid

8S140

Application

	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

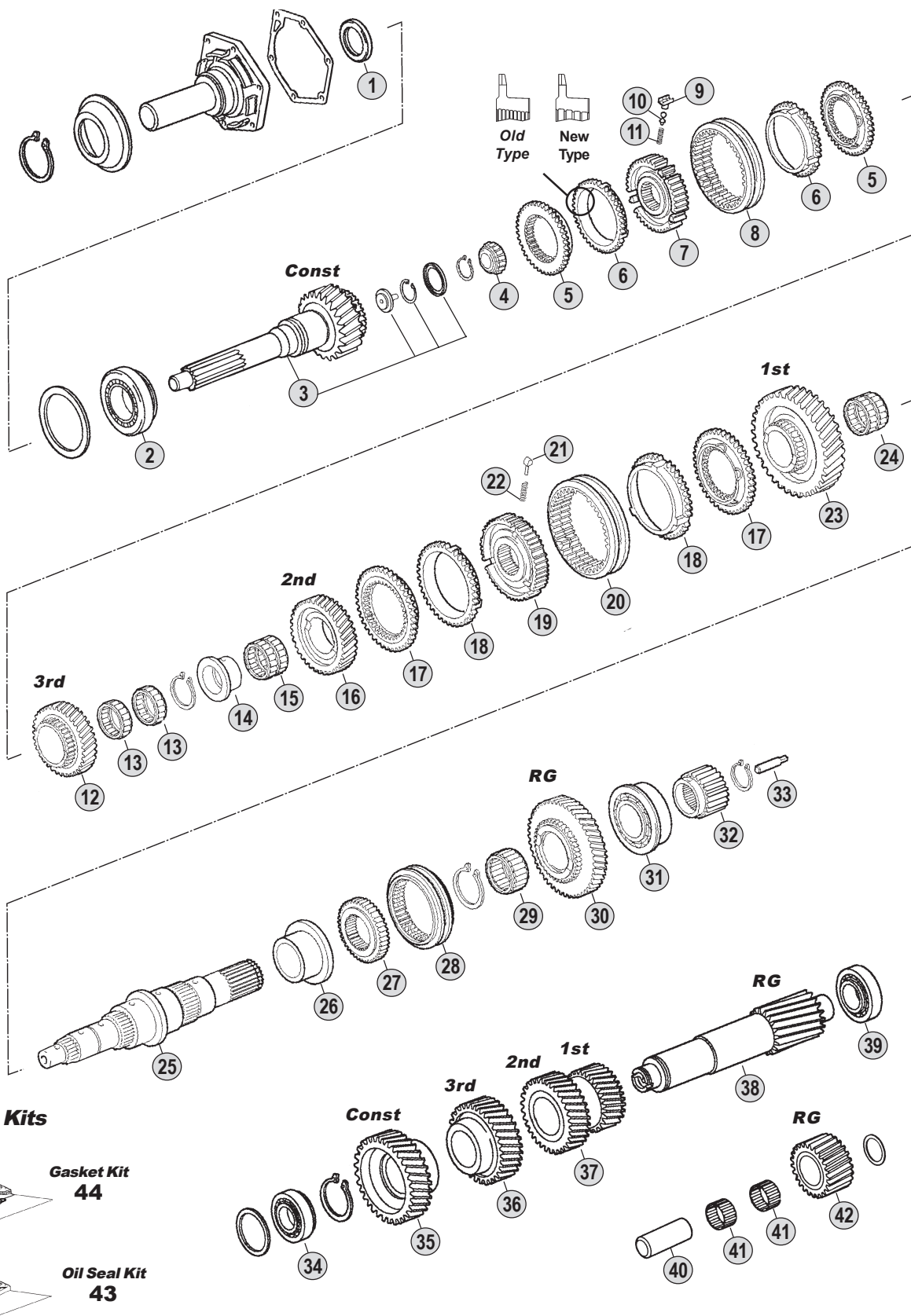
ECOMID
8S140

Ratios

Ratio
8,49-1,00

Suitable To : **ZF**

8S140



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Ratios

8S140 Ratio 8,49 - 1,00

8S140 (1304)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	DAF no.					8S140					
1	139.753	0750 111 149	699617	Oil Seal D.48x65x10	1			●					
2	130.313	0750 117 079	699615	Bearing D.66,6x117,4x30,1	1			●					
3	102.347	1304 202 177	1289000	Input Shaft 26 T	1			●					
4	130.683	0735 371 748	1197999	Needle Bearing D.32x29,5	1			●					
5	109.391	1304 304 660	1317295	Synchronizer Cone	2			●					
6	119.150	1304 304 014	699659	Synchronizer Ring	2	Old Type		●					
6	119.169	1304 304 683	1363793	Synchronizer Ring	2	New Type		●					
7	157.697	1304 304 051	699660	Synchronizer Hub	1			●					
8	154.361	6002 305 515	68516	Sliding Sleeve	1			●					
9	188.096	1238 304 394	171350	Pressure Piece	3			●					
10	160.143	1249 304 222	171351	Plunger	3			●					
11	156.140	0732 040 409	171349	Spring D.6,5x23,5	3			●					
12	145.824	1304 304 500	68515	Gear 3rd Speed 25 T	1			●					
13	137.258	0735 321 011	68514	Needle Cage 60x68x23	2			●					
14	117.377	1304 304 050	699651	Bush	1			●					
15	137.074	0750 115 227	699652	Needle Bearing D.75x83x40	1			●					
16	145.823	1304 304 499	68513	Gear 2nd Speed 29 T	1			●					
17	109.171	1304 304 408	699642	Synchronizer Cone	2			●					
18	119.151	1304 304 542	67762	Synchronizer Ring	2	Old Type		●					
18	119.170	1304 304 681	1352001	Synchronizer Ring	2	New Type		●					
19	157.696	1304 304 591	68331	Synchronizer Hub	1			●					
20	154.200	1304 304 597	68512	Sliding Sleeve 1st-2nd Speed	1			●					
21	160.189	1297 304 436	68332	Pressure Piece	3			●					
22	156.140	0732 040 409	171349	Spring D.6,5x23,5	3			●					
23	147.227	1304 304 498	68511	Gear 1st Speed 33 T	1			●					
24	137.142	0735 320 816	699640	Needle Cage D.75x83x23	1			●					
25	103.190	1304 304 449	699627	Main Shaft	1			●					
26	117.378	1304 304 568	68507	Bush	1			●					
27	157.698	1304 304 443	68508	Synchronizer Hub	1			●					
28	154.362	1304 304 444	68523	Sliding Sleeve	1			●					
29	137.147	0750 115 225	699635	Needle Cage D.60x68x39	1			●					
30	147.226	1304 304 435	68509	Reverse Gear 32 T	1			●					
31	130.315	0735 371 605	1305820	Bearing D.50,8x104,7x30,1	1			●					
32	157.699	1304 304 448	68510	Sun Gear	1			●					
33	188.209	1312 304 150	1246838	Oil Tube	1			●					
34	130.314	0735 371 749	1197998	Bearing D.40x80x32	1			●					
35	146.584	1304 303 272	68339	Constant Gear 36 T	1			●					
36	147.228	1304 303 244	68506	Gear 3rd Speed 27 T	1			●					
37	143.119	1304 303 243	68505	Double Gear 19/23 T	1			●					
38	105.184	1304 303 267	68338	Countershaft 14 T	1			●					
39	130.234	0750 117 083	586693	Bearing D.50,8x95,2x27,7	1			●					
40	107.156	1304 305 030	699607	Reverse Shaft	1			●					
41	137.143	0735 358 192	699608	Needle Cage D.40x60x26	2			●					
42		1304 305 044	1262881	Reverse gear	1			●					
43	298.026	1304 298 908	1344715	Oil Seal Kit	1			●					

Notes

Date

07 / 2006

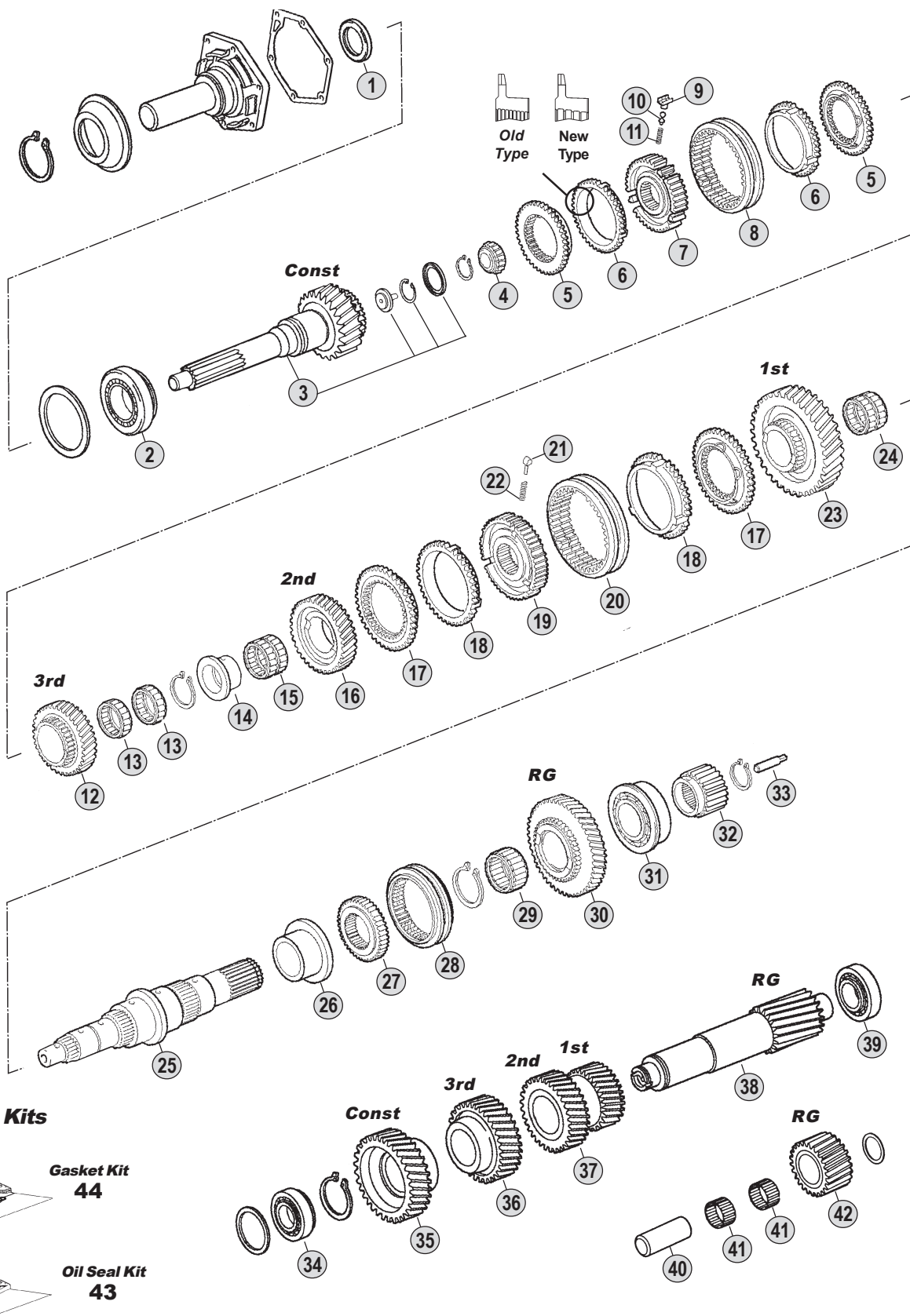
Table

0200 / A

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Suitable To : **ZF**

8S140



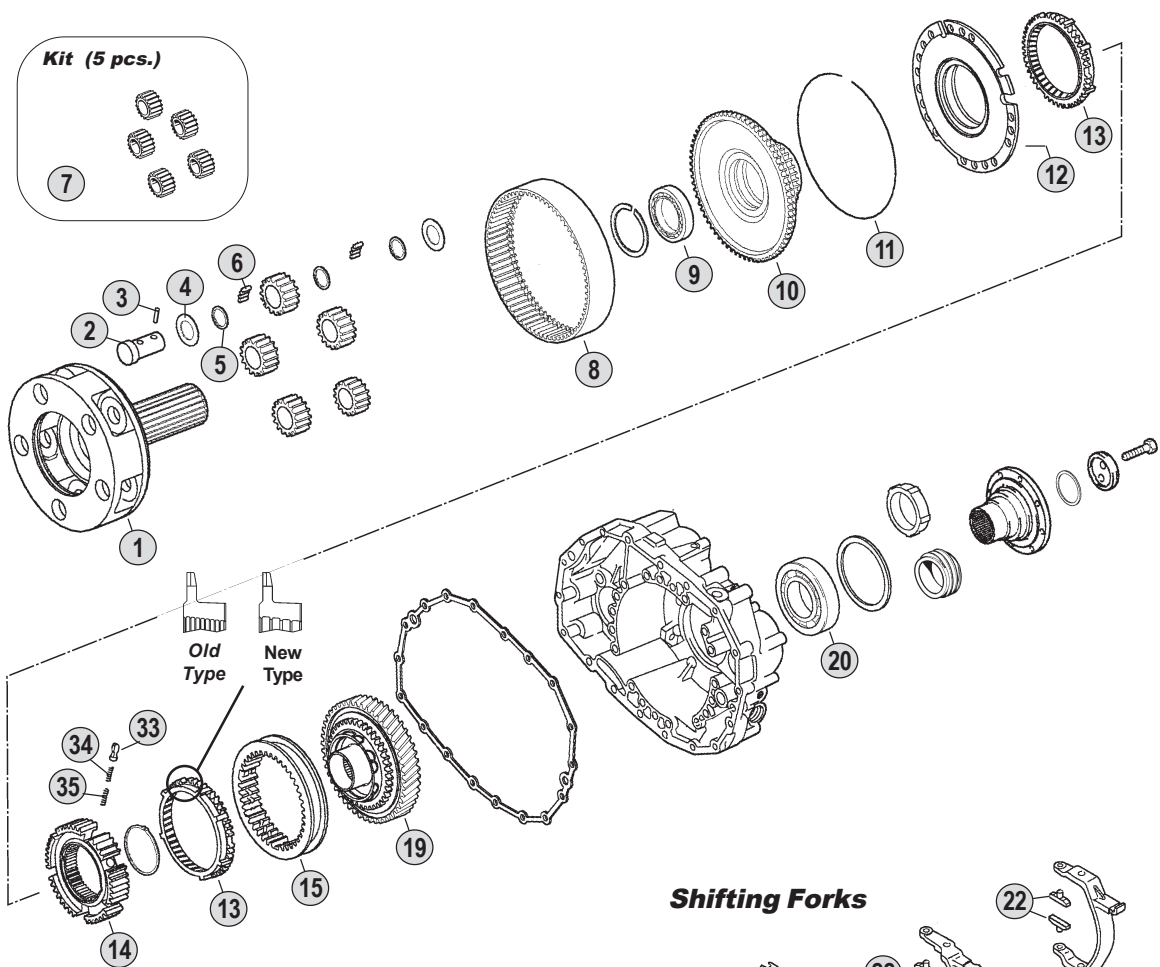
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Ratios

8S140 Ratio 8,49 - 1,00

Suitable To : **ZF**

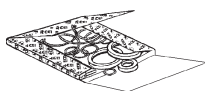
8S140



Kits

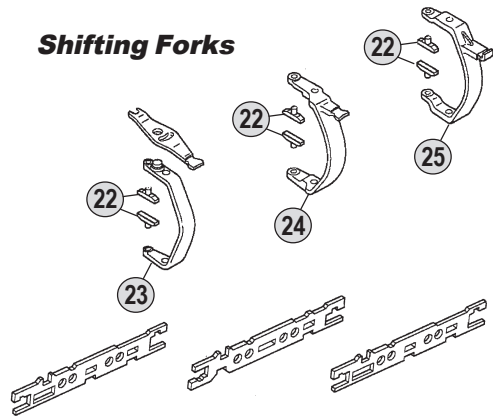


**Gasket Kit
37**

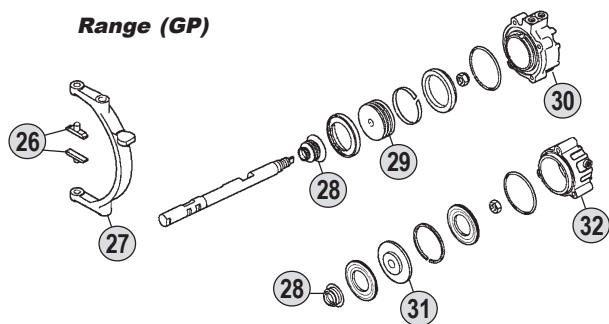


**Oil Seal Kit
36**

Shifting Forks



Range (GP)



Ratios

8S140 Ratio 8,49 - 1,00



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8S140 (1304)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	DAF no.											
1	190.387	1304 232 091	1195925	Planetary Carrier	1		●							
2	107.157	1304 332 111	66588	Planet Pin	5		●							
3	160.239	0631 329 037		Lock Pin 4x26	5		●							
4	169.396	0501 304 692	609490	Thrust Washer 1,50	5		●							
5	169.397	0730 103 102	609489	Spacer Ring 1,50	15		●							
6	171.044	0735 470 115	66587	Roller D.5x15,30	200		●							
7	298.018	1304 232 025	66518	Planetary Gear Set	1		●							
8	123.210	1304 332 178	1262888	Crown Gear 86 T	1		●							
9	130.310	0750 116 165	69395	Bearing D.80x110x16	1		●							
10	150.135	1304 332 215	1311153	Carrier Hub 86 T	1		●							
11	111.264	0730 505 140	69540	Locking Wire	1		●							
12	198.796	1304 233 006	1311173	Synchronizer Cone	1		●							
13	119.085	1296 333 022	1303708	Synchronizer Ring	2	Old Type	●							
13	119.172	1296 333 045	1354113	Synchronizer Ring	2	New Type	●							
14	157.182	1313 333 001	69909	Synchronizer Hub	1		●							
15	154.201	1304 333 011	1311176	Sliding Sleeve	1		●							
19	109.173	1304 232 085	1311177	Synchronizer Cone	1	with retarder	●							
20	130.690	0750 116 048	699706	Roller Bearing D.78x130x25	1		●							
22	141.194	1290 306 066	689470	Bronze Slide	2		●							
23		1304 306 010	699666	Fork	1		●							
24		1304 306 009	699668	Fork	1		●							
25		1304 306 077	68518	Fork	1		●							
26	141.061	1272 334 003	140936	Bronze Slide	2		●							
27		1304 334 063		Fork	1		●							
28		0750 112 047	699733	Oil seal	1		●							
29		1297 334 056	1235359	Piston	1		●							
30		1304 334 068	1311180	Cylinder	1		●							
31		1315 334 041	1369533	Piston	1		●							
32		1304 334 079	1369535	Cylinder	1		●							
33	160.116	1240 304 278	326962	Pressure Piece	9		●							
34	156.037	0732 040 385	326963	Outer Spring De.6x34	9		●							
35	156.036	0732 040 386	326964	Inner Spring De.3x34	9		●							
36	298.027	1304 298 939		Oil Seal Kit	1		●							
37	198.945	1304 298 914	1363925	Gasket Kit	1		●							

Notes

Date

07 / 2006

Table

0200 / B

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suitable to :

Z.F.

EcoMid

9S75

Application

	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

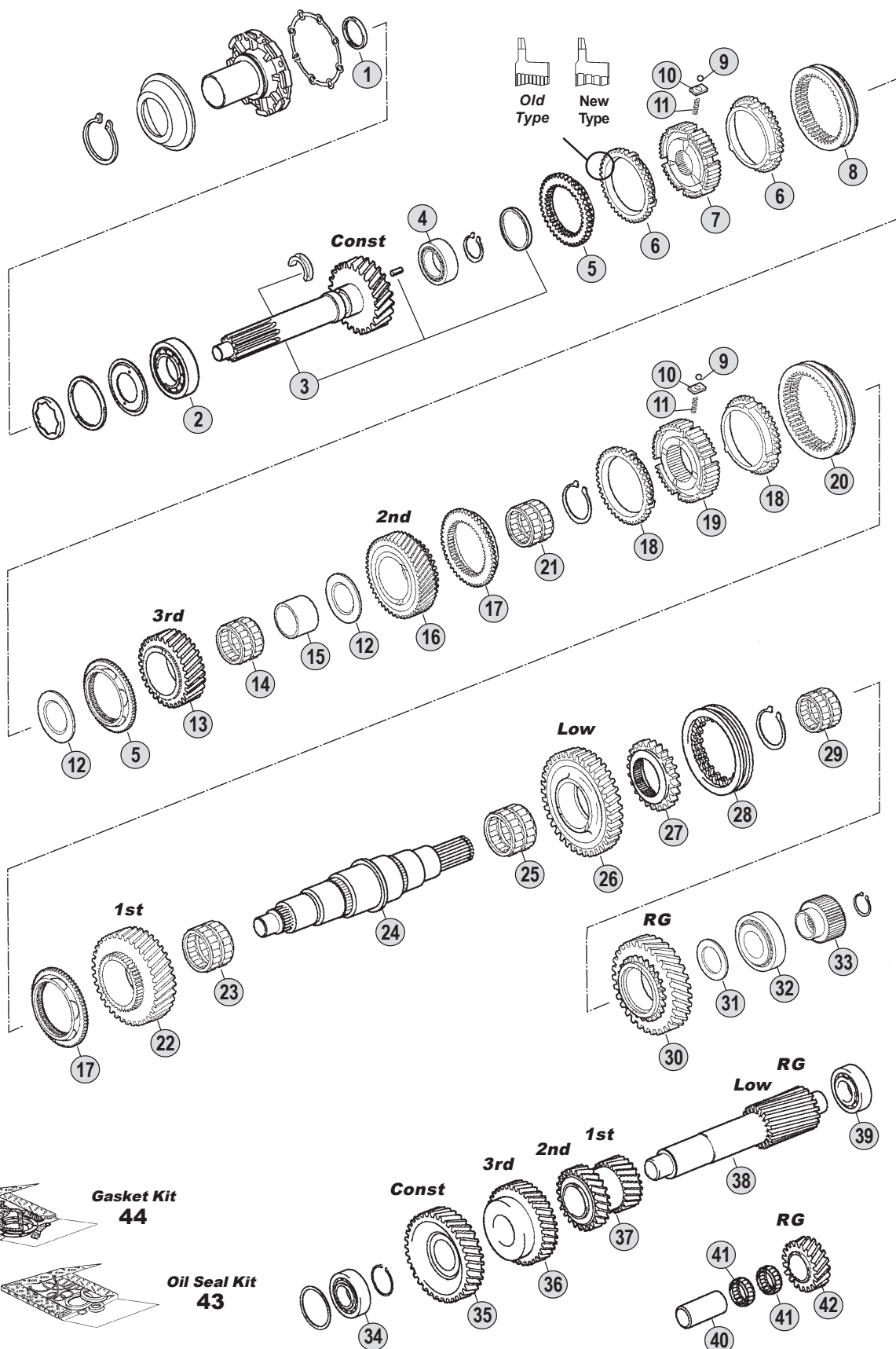
Ratios

Ratio	Note
13,16-1,00	--

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ECOMID
9S75

Suitable To : **ZF**



Kits



Ratios

9S75 Ratio : 13,16 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	DAF no.											
1	139.753	0750 111 149	699617	Oil Seal D.48x65x10	1		●							
2	130.686	0750 117 312	1291270	Roller Bearing D.50,8x104,7x30,	1		●							
3	190.331	1308 202 052		Input Shaft 26 T	1		●							
3		1308 202 058		Input Shaft 26 T	1		●							
3	190.397	1308 202 048	1346855	Input Shaft 26 T	1		●							
3		1308 202 049		Input Shaft 26 T	1	(1)	●							
3		1308 202 050		Input Shaft 26 T	1	(1)	●							
4		1307 203 019	1291310	Roller bearing D.31,7x66,4x25,4	1		●							
5	109.135	1308 304 078	1291269	Synchronizer Cone	2		●							
6	119.174	1308 304 072	1291307	Synchronizer Ring	2	Old type	●							
6	119.117	1308 304 097	1398832	Synchronizer Ring	2	New Type	●							
7	157.219	1307 304 607	1346869	Synchronizer Hub	1		●							
8	154.170	1308 304 090	1296924	Sliding Sleeve	1		●							
9	171.014	0635 460 010	221214	Ball D.6	3		●							
10	139.553	1307 304 156	1291300	Slide	3		●							
11	156.178	0732 041 571		Spring	3		●							
12	269.008	0730 108 172	1291303	Washer A=4,15	2		●							
13	145.826	1308 304 064	1291305	Gear 3rd Speed 30 T	1		●							
14	137.264	0735 321 494	1382045	Needle Cage 60x68x41,6	1		●							
15	117.379	0730 162 428	1291304	Bush A=42,30	1		●							
16	145.521	1308 304 054	1291302	Gear 2nd Speed 30 T	1		●							
17	109.137	1308 304 077	1291296	Synchronizer Cone	2		●							
18	119.116	1308 304 070	1291298	Synchronizer Ring	2	Old Type	●							
18	119.141	1308 304 096	1395091	Synchronizer Ring	2	New Type	●							
19	157.220	1307 304 608	1346867	Synchronizer Hub	1		●							
20	154.171	1308 304 091	1326226	Sliding Sleeve	1		●							
21	137.264	0735 321 494	1382045	Needle Cage 60x68x41,6	1		●							
22	145.838	1308 304 057	1291295	Gear 1st Speed 34 T	1		●							
23	137.263	0735 321 012	1291294	Needle Cage 67x75x44	1		●							
24	103.137	1308 304 053	1291284	Main Shaft	1		●							
25	137.261	0750 115 427	1291285	Needle Cage 67x75x37	1		●							
26	145.837	1308 304 086	1296922	Gear Low Speed 37 T	1		●							
27	109.136	1308 304 051	1291287	Fixed Hub	1		●							
28	154.364	1308 304 087	1296923	Sliding Sleeve	1		●							
29	137.262	0750 115 533	1384853	Needle Cage 60x68x31,3	1		●							
30	147.237	1308 304 052	1291291	Reverse Gear 33 T	1		●							
31	269.007	0730 106 496	1291292	Washer A=4,00	1		●							
32	130.233	1246 203 008	586694	Roller Bearing D.44,45x95,25x28	1		●							
33	157.200	1308 304 059	1291293	Sun Gear 30 T	1		●							
34	130.688	0735 370 742	1291281	Roller Bearing D.39,6x79,9x29,3	1		●							
35	146.432	1308 303 023	1291279	Constant Gear 37 T	1		●							
36	146.585	1308 303 027	1291278	Gear 3rd Speed 32 T	1		●							
37	143.124	1308 303 021	1291277	Double Gear 1st/2nd Sp.-23/19	1		●							
38	105.189	1308 303 022	1291276	Countershaft 14 T	1		●							
39	130.687	0750 117 198	689430	Roller Bearing D.39,6x76,2x23,8	1		●							

Notes

(1) Special Turkish applications. (BMC, CRYSLER-ASKAM etc..)

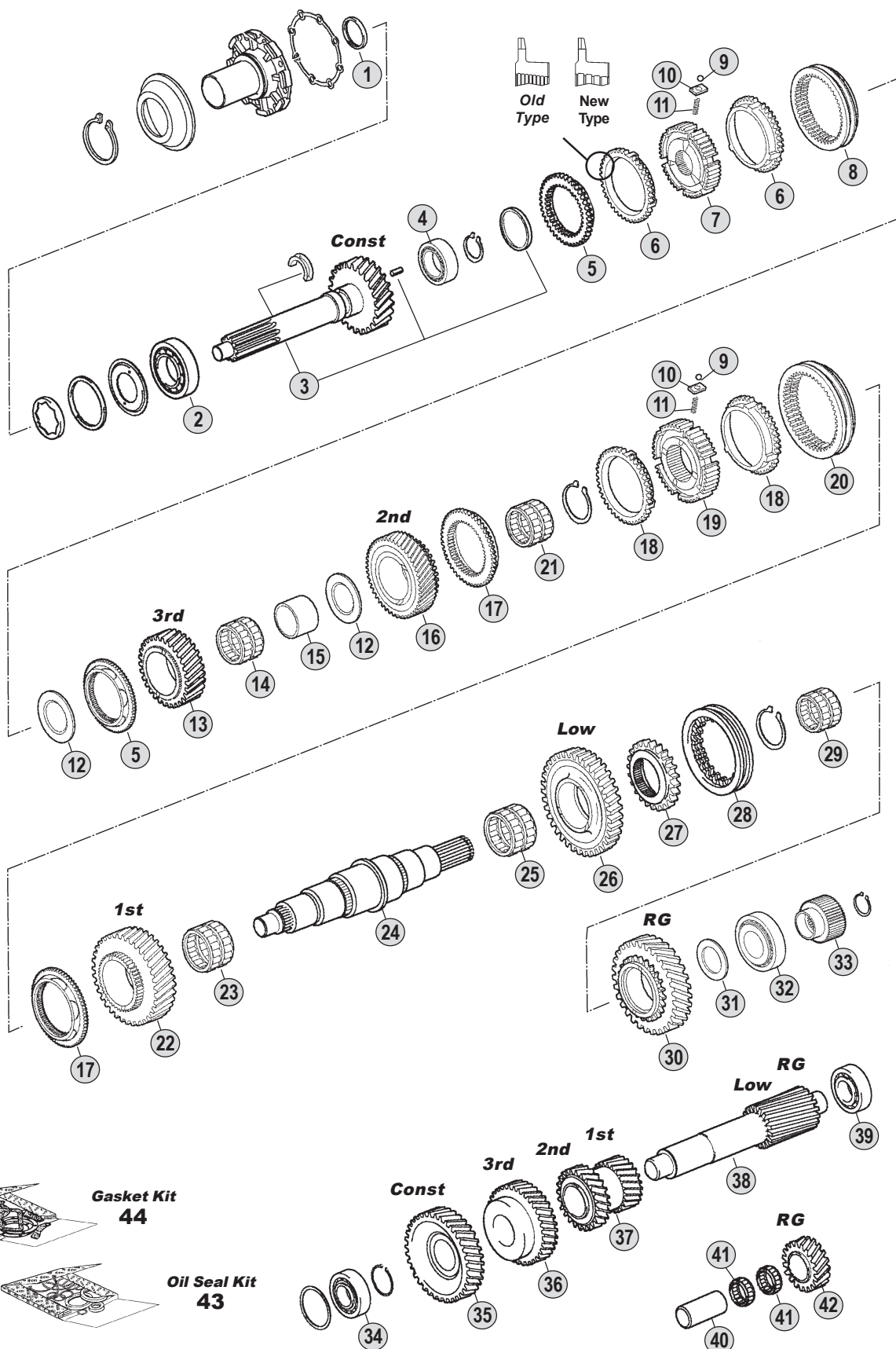
Date

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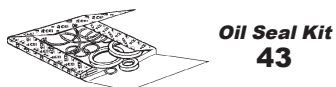
Table

0210 / A

Suitable To : **ZF**



Kits



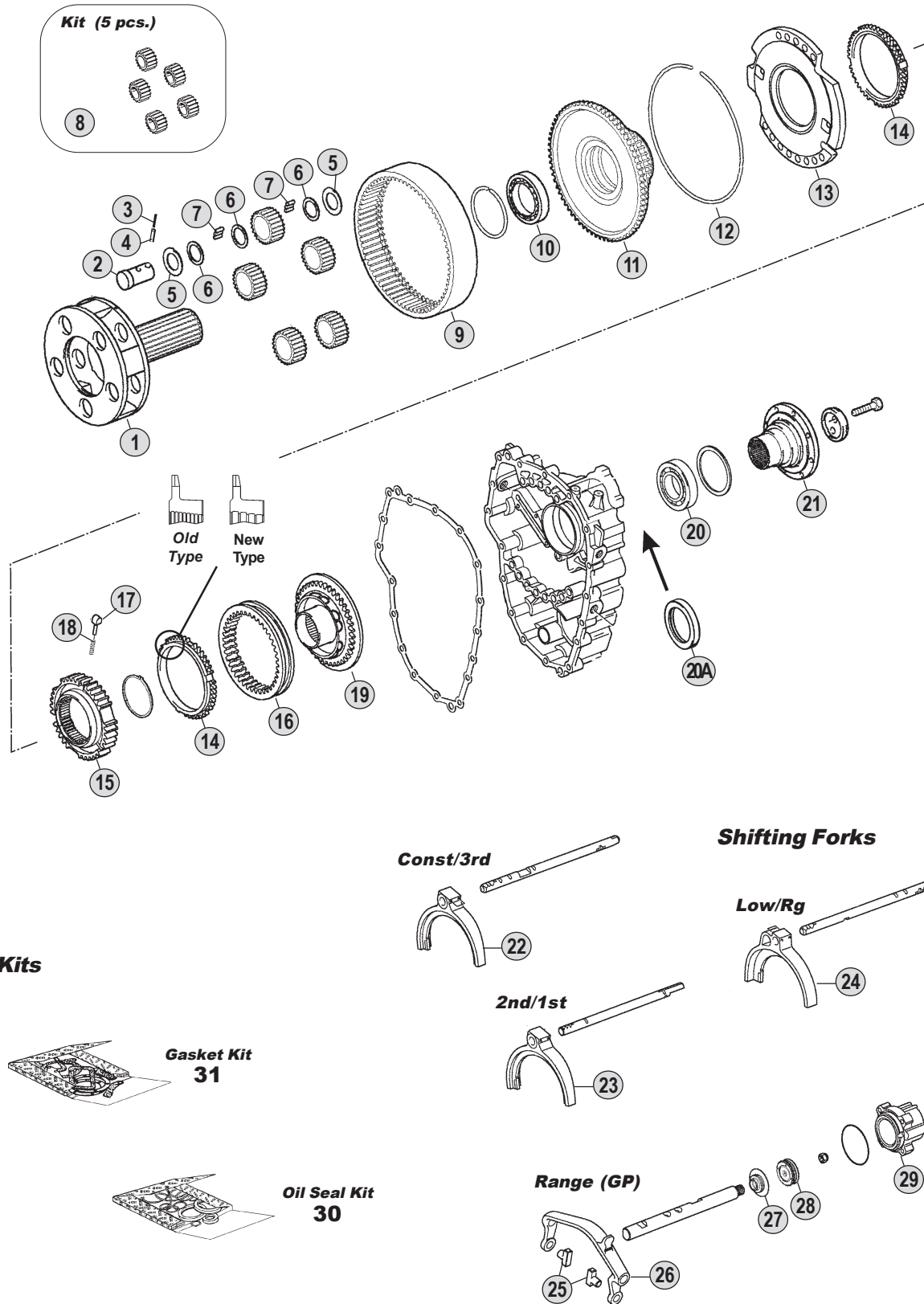
Ratios

9S75 Ratio : 13,16 - 1,00

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Suitable To : **ZF**

9S75



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Ratios

9S75 Ratio : 13,16 - 1,00

9S75 (1308)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	DAF no.											
1	190.350	1308 232 011	1347134	Planetary Carrier	1		●							
1		1308 232 009	1291352	Planetary Carrier	1	(*)	●							
2	107.138	1308 332 004	1291356	Planet Pin	5		●							
3	160.241	0631 329 175		Lock Pin 3x22	5		●							
4	160.240	0631 329 049		Lock Pin 5x22	5		●							
5	169.396	0730 150 767	609490	Thrust Washer 1,50	10		●							
6	169.397	0730 103 102	609489	Spacer Ring 1,50	15		●							
7	171.038	0735 470 155	1291355	Needle D.5x11,80	200		●							
8	198.736	1308 232 007	1291353	Planetary Gear Set	1		●							
9	123.218	1308 332 026	1291370	Crown Gear 75 T	1		●							
10	130.689	0635 338 090	1291358	Ball Bearing D.65x85x10	1		●							
11	150.165	1308 332 034	1291357	Carrier Hub 75 T	1		●							
12		0730 505 149	1291371	Locking Wire	1		●							
13	198.734	1308 233 003	1296902	Synchronizer Cone	1		●							
14	119.118	1268 304 445	67096	Synchronizer Ring	2	Old Type	●							
14	119.142	1268 304 594	1349551	Synchronizer Ring	2	New Type	●							
15	157.704	1308 332 036	1291374	Synchronizer Hub	1		●							
16	154.172	1308 332 015	1291375	Sliding Sleeve	1		●							
17	160.242	1297 304 437	68652	Pressure Spring	3		●							
18	156.140	0732 040 409	171349	Spring D.6,5x23,5	3		●							
19	109.394	1308 232 010	1347135	Synchronizer Cone	1		●							
19	198.735	1308 232 006	1291377	Synchronizer Cone	1	(*)	●							
20		0735 330 597	1347094	Roller Bearing D.65x120x23	1		●							
20A		0750 111 334	1291094	Oil Seal D.80x100x10	1		●							
21		1308 338 013	1291372	Output Flange	1	D.150-4H.	●							
21		1308 338 026		Output Flange	1	D.175-8H.	●							
21		1308 338 017		Output Flange	1	(*)	●							
22		1308 306 081	1346883	Fork	1		●							
23		1308 306 037	1291314	Fork	1		●							
24		1308 306 067	1326227	Fork	1		●							
25	141.163	1297 306 120	66379	Slide	2		●							
26		1308 334 001	1291380	Fork	1		●							
27	139.752	0501 316 333	1347259	Oil Seal 22x36x14,5	1		●							
28		0734 309 377	1347260	Piston	1		●							
29		1308 334 011	1374459	Cylinder	1		●							
30	298.025	1308 298 009	1436850	Oil Seal Kit	1		●							
31	198.944	1308 298 001	1346759	Gasket Kit	1		●							

Notes

(*) Old Version To be coupled together with items with note (*). DO NO MIX

Date

07 / 2006

Table

0210 / B

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suitable to :

Z.F.

EcoMid

9S109

Application

	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

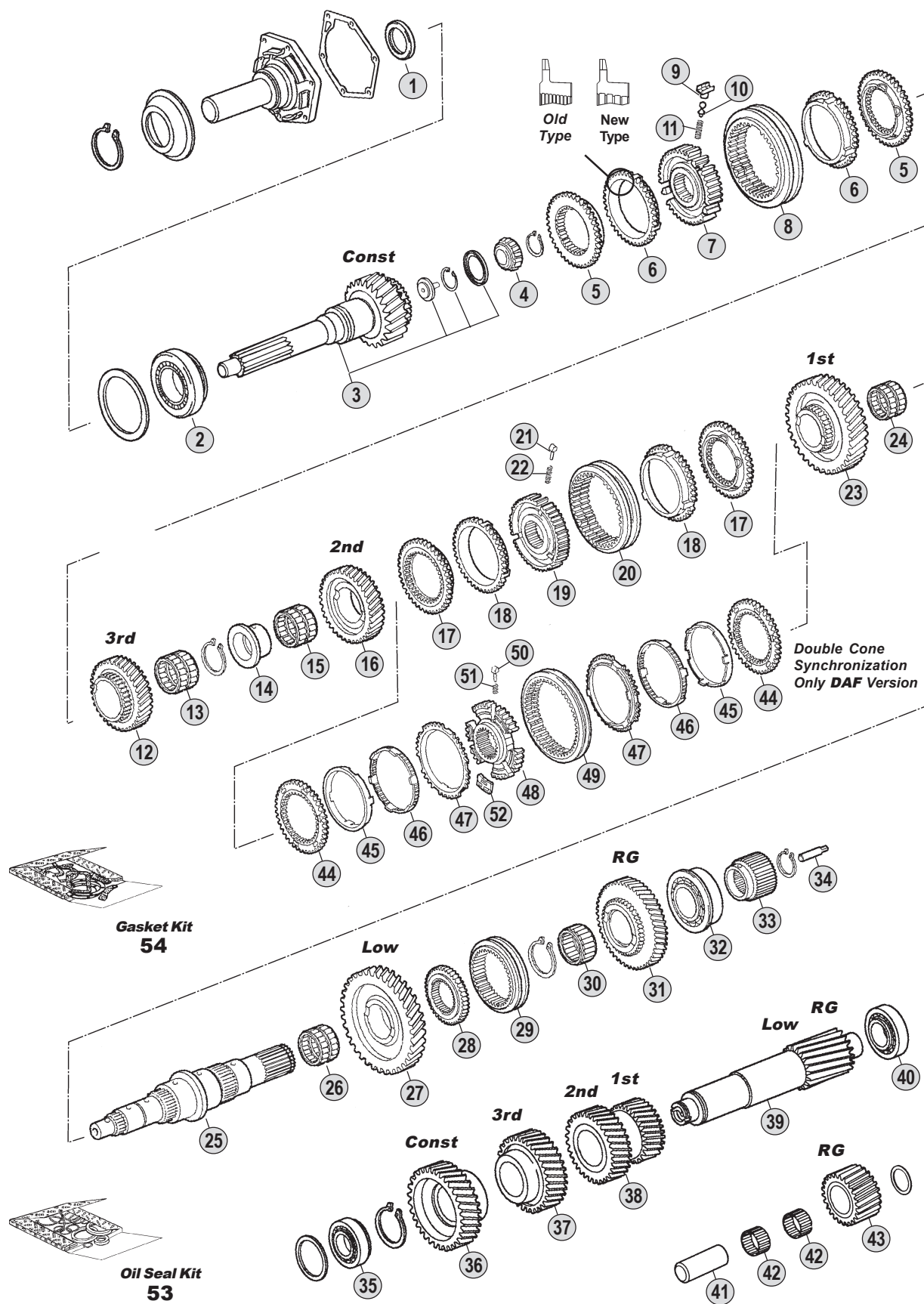
Ratio	Note
10,24-0,74	A
10,25-0,79	B
12,91-1,00	C
12,92-1,00	D

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ECOMID
9S109

Suitable To : **ZF**

9S109



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Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00

9S109 (1304)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	DAF no.					9S109						
1	139.753	0750 111 149	699617	Oil Seal D.48x65x10	1		●							
2	130.313	0750 117 079	699615	Bearing D.66,6x117,4x30,1	1		●							
3	102.354	1304 202 170		Input Shaft 27 T	1		AB ●							
3	102.352	1304 202 171		Input Shaft 27 T	1		AB ●							
3	102.356	1304 202 172		Input Shaft 27 T	1		AB ●							
3	102.358	1304 202 173		Input Shaft 27 T	1		AB ●							
3	102.351	1304 202 180		Input Shaft 27 T	1		AB ●							
3	102.355	1304 202 245		Input Shaft 27 T	1		AB ●							
3	102.357	1304 202 168		Input Shaft 26 T	1		CD ●							
3	102.353	1304 202 175		Input Shaft 26 T	1		CD ●							
3	102.347	1304 202 177	1289000	Input Shaft 26 T	1		CD ●							
3	102.350	1304 202 178		Input Shaft 26 T	1		CD ●							
4	130.683	0735 371 748	1197999	Needle Bearing D.32x29,5	1		●							
5	109.391	1304 304 660	1317295	Synchronizer Cone	2		●							
6	119.150	1304 304 014	699659	Synchronizer Ring	2	Old Type	●							
6	119.169	1304 304 683	1363793	Synchronizer Ring	2	New Type	●							
7	157.697	1304 304 051	699660	Synchronizer Hub	1		●							
8	154.361	6002 305 515	68516	Sliding Sleeve	1		●							
9	188.096	1238 304 394	171350	Pressure Piece	3		●							
10	160.143	1249 304 222	171351	Plunger	3		●							
11	156.140	0732 040 409	171349	Spring D.6,5x23,5	3		●							
12	145.832	1304 304 472	1212166	Gear 3rd Speed 23 T	1		A ●							
12	145.839	1304 304 365		Gear 3rd Speed 24 T	1		B ●							
12	145.836	1304 304 571	1375260	Gear 3rd Speed 27 T	1		C ●							
12	145.824	1304 304 500	68515	Gear 3rd Speed 25 T	1		D ●							
13	137.258	0735 321 011	68514	Needle Cage 60x68x23	1		●							
14	117.377	1304 304 050	699651	Bush	1		●							
15	137.074	0750 115 227	699652	Needle Bearing D.75x83x40	1		●							
16	145.831	1304 304 367	1212165	Gear 2nd Speed 31 T	1		AB ●							
16	145.835	1304 304 570	1375259	Gear 2nd Speed 30 T	1		C ●							
16	145.823	1304 304 499	68513	Gear 2nd Speed 29 T	1		D ●							
17	109.171	1304 304 408	699642	Synchronizer Cone	2		●							
18	119.151	1304 304 542	67762	Synchronizer Ring	2	Old Type	●							
18	119.170	1304 304 681	1352001	Synchronizer Ring	2	New Type	●							
19	157.696	1304 304 591	68331	Synchronizer Hub	1		●							
20	154.200	1304 304 597	68512	Sliding Sleeve 1st-2nd Speed	1		●							
21	160.189	1297 304 436	68332	Pressure Piece	3		●							
22	156.140	0732 040 409	171349	Spring D.6,5x23,5	3		●							
23	145.830	1304 304 471	1212164	Gear 1st Speed	1		A ●							
23	145.840	1304 304 369		Gear 1st Speed 33 T	1		B ●							
23	145.834	1304 304 569	1375258	Gear 1st Speed 33 T	1		C ●							
23	147.227	1304 304 498	68511	Gear 1st Speed 33 T	1		D ●							
24	137.142	0735 320 816	699640	Needle Cage D.75x83x23	1		●							
25	103.190	1304 304 449	699627	Main Shaft	1		●							
26	137.257	0735 320 500	100181	Needle Cage D.75x83x35	1		●							

Notes

(*) DAF Models only. Do NO MIX Single Cone Synchron. with Double Cone Synchron.

Date

07 / 2006

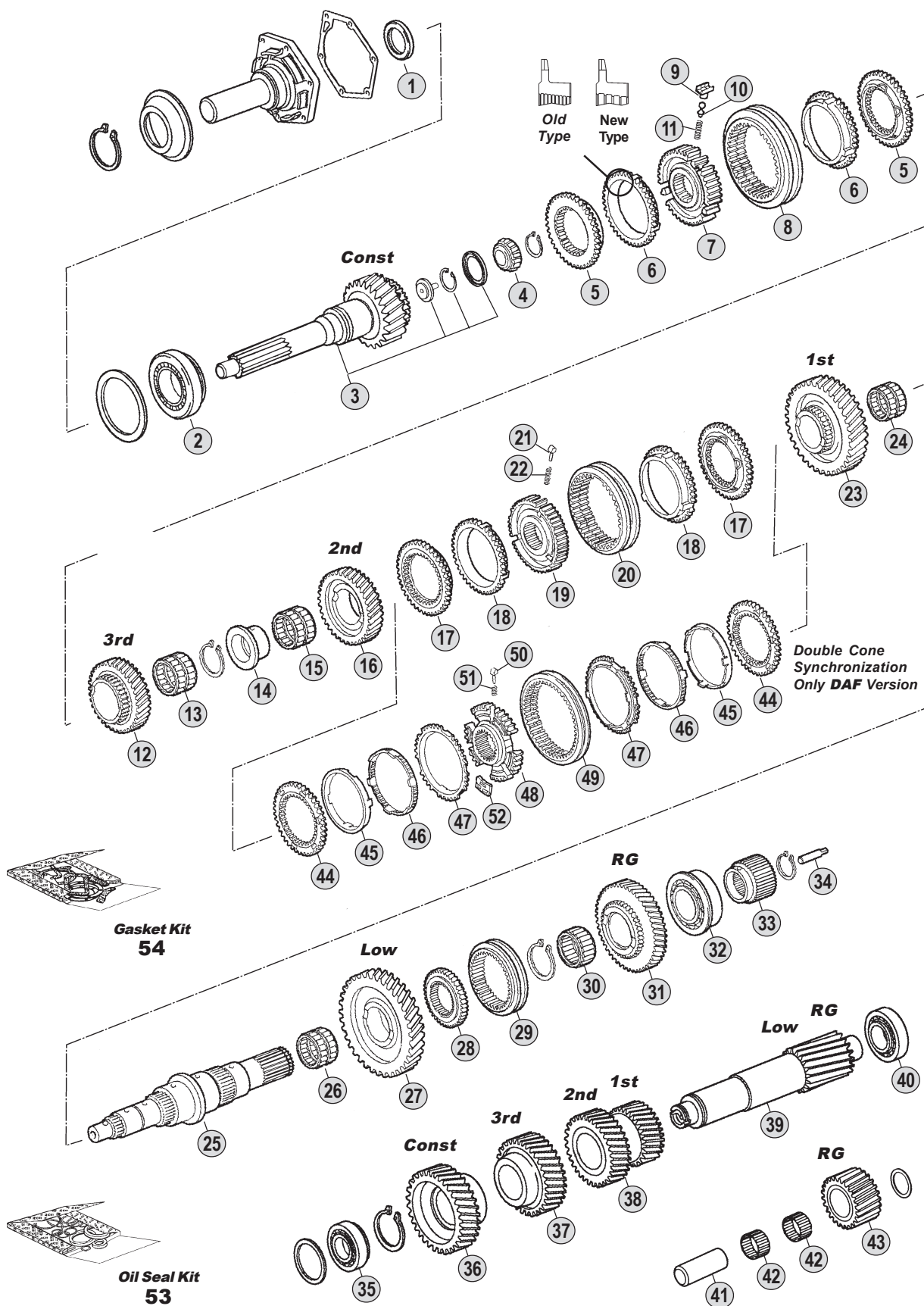
Table

0220 / A

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Suitable To : **ZF**

9S109



Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00



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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	DAF no.										
27	145.829	1304 304 428	1212162	Gear Low Speed 38 T	1		AB	●					
27	145.833	1304 304 543		Gear Low Speed	1		C	●					
27	145.828	1304 304 426	69397	Gear Low Speed 37 T	1		D	●					
28	157.698	1304 304 443	68508	Synchronizer Hub	1			●					
29	154.362	1304 304 444	68523	Sliding Sleeve	1			●					
30	137.147	0750 115 225	699635	Needle Cage D.60x68x39	1			●					
31	147.235	1304 304 437	1212163	Reverse Gear 35 T	1		AB	●					
31	147.236	1304 304 553		Reverse Gear	1		C	●					
31	147.226	1304 304 435	68509	Reverse Gear 32 T	1		D	●					
32	130.315	0735 371 605	1305820	Bearing D.50,8x104,7x30,1	1			●					
33	157.699	1304 304 448	68510	Sun Gear	1			●					
34	188.209	1312 304 150	1246838	Oil Tube	1			●					
35	130.314	0735 371 749	1197998	Bearing D.40x80x32	1			●					
36	146.588	1304 303 285	1212161	Constant Gear 33 T	1		AB	●					
36	146.584	1304 303 272	68339	Constant Gear 36 T	1		CD	●					
37	146.587	1304 303 210	1212160	Gear 3rd Speed 38 T	1		A	●					
37	146.590	1304 303 171		Gear 3rd Speed 37 T	1		B	●					
37	146.589	1304 303 287	1375008	Gear 3rd Speed 28 T	1		C	●					
37	147.228	1304 303 244	68506	Gear 3rd Speed 27 T	1		D	●					
38	143.122	1304 303 209	1212159	Double Gear 1st/2nd-28/21 T	1		A	●					
38	143.125	1304 303 172		Double Gear 1st/2nd Speed	1		B	●					
38	143.123	1304 303 286	1375007	Double Gear 1st/2nd Speed	1		C	●					
38	143.119	1304 303 243	68505	Double Gear 19/23 T	1		D	●					
39	105.187	1304 303 269	1212173	Countershaft 16 T	1		AB	●					
39	105.188	1304 303 268	1375006	Countershaft 14 T	1		C	●					
39	105.184	1304 303 267	68338	Countershaft 14 T	1		D	●					
40	130.234	0750 117 083	586693	Bearing D.50,8x95,2x27,7	1			●					
41	107.156	1304 305 030	699607	Reverse Shaft	1			●					
42	137.143	0735 358 192	699608	Needle Cage D.40x60x26	2			●					
43		1304 305 043		Reverse Gear 22 T	1		AB	●					
43		1304 305 045	1363719	Reverse gear	1		C	●					
43		1304 305 044	1262881	Reverse gear	1		D	●					
44	109.407	1304 304 623	1296007	Synchronizer Cone	2		(*)	●					
45	119.221	1290 304 350	1268584	Internal Ring	2		(*)	●					
46	119.222	6002 306 154	1433230	Intermediate Ring	2		(*)	●					
47	119.223	1290 304 438	1268586	Outer Ring	2		(*)	●					
48	157.712	1304 304 646	1287309	Synchronizer Hub	1		(*)	●					
49	154.373	6002 305 994	1287575	Sliding Sleeve	1		(*)	●					
50	160.189	1297 304 436	68332	Pressure Piece	3		(*)	●					
51	156.140	0732 040 409	171349	Spring D.6,5x23,5	3		(*)	●					
52	156.176	1312 304 159	1300312	Pad	3		(*)	●					
53	298.026	1304 298 908	1344715	Oil Seal Kit	1			●					
54	198.945	1304 298 914	1363925	Gasket Kit	1			●					

Notes

(*) DAF Models only. Do NO MIX Single Cone Synchron. with Double Cone Synchron.

Date

07 / 2006

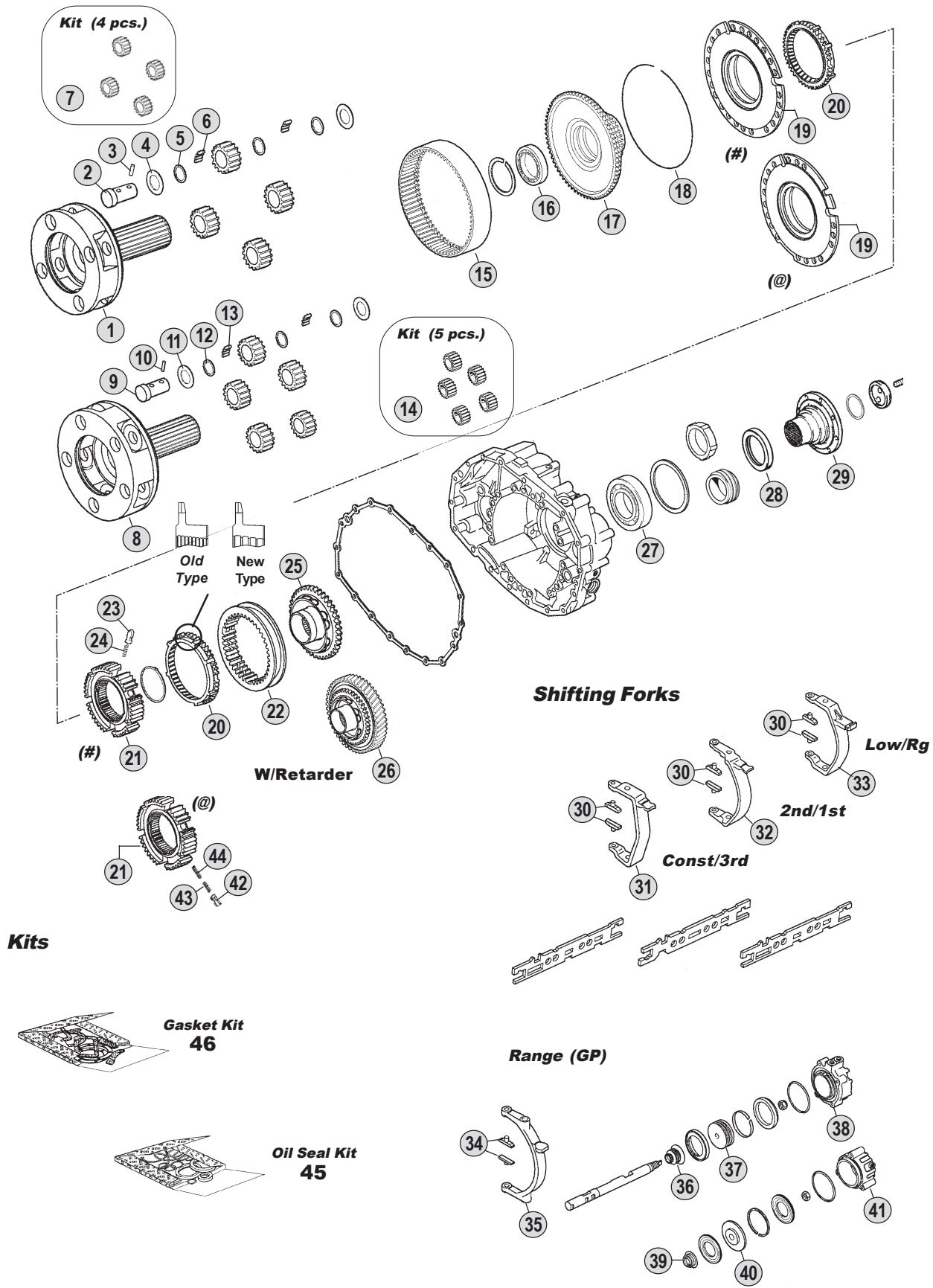
Table

0220 / A

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Suitable To : **ZF**

9S109



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Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00



9S109 (1304)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	DAF no.					9S109				
1	190.391	1304 232 095	1301212	Planetary Carrier	1	(1)	●					
2	107.157	1304 332 111	66588	Planet Pin	4	(1)	●					
3	160.239	0631 329 037		Lock Pin 4x26	4	(1)	●					
4	169.396	0501 304 692	609490	Thrust Washer 1,50	8	(1)	●					
5	169.397	0730 103 102	609489	Spacer Ring 1,50	12	(1)	●					
6	171.044	0735 470 115	66587	Roller D.5x15,30	160	(1)	●					
7	298.023	1304 232 037	69745	Planetary Gear Set	1	(1)	●					
8	190.387	1304 232 091	1195925	Planetary Carrier	1	(2)	●					
9	107.157	1304 332 111	66588	Planet Pin	5	(2)	●					
10	160.239	0631 329 037		Lock Pin 4x26	5	(2)	●					
11	169.396	0501 304 692	609490	Thrust Washer 1,50	10	(2)	●					
12	169.397	0730 103 102	609489	Spacer Ring 1,50	15	(2)	●					
13	171.044	0735 470 115	66587	Roller D.5x15,30	200	(2)	●					
14	298.018	1304 232 025	66518	Planetary Gear Set	1	(2)	●					
15	123.210	1304 332 178	1262888	Crown Gear 86 T	1		●					
16	130.265	0735 340 080	699719	Bearing D.70x90x10	1		(#)	●				
16	130.310	0750 116 165	69395	Bearing D.80x110x16	1		(@)	●				
17	150.141	1304 332 060	66630	Carrier Hub 86 T	1		(#)	●				
17	150.135	1304 332 215	1311153	Carrier Hub 86 T	1		(@)	●				
18	111.264	0730 505 140	69540	Locking Wire	1		●					
19	198.817	1304 233 005	699727	Synchronizer Cone	1		(#)	●				
19	198.796	1304 233 006	1311173	Synchronizer Cone	1		(@)	●				
20	119.157	1304 333 005	699729	Synchronizer Ring	2	Old Type	(#)	●				
20	119.171	1304 333 021		Synchronizer Ring	2	New Type	(#)	●				
20	119.085	1296 333 022	1303708	Synchronizer Ring	2	Old Type	(@)	●				
20	119.172	1296 333 045	1354113	Synchronizer Ring	2	New Type	(@)	●				
21	157.205	1304 332 066	699728	Synchronizer Hub	1		(#)	●				
21	157.182	1313 333 001	69909	Synchronizer Hub	1		(@)	●				
22	154.210	1304 332 089	699730	Sliding Sleeve	1		(#)	●				
22	154.201	1304 333 011	1311176	Sliding Sleeve	1		(@)	●				
23	160.116	1240 304 278	326962	Pressure Piece	6		(#)	●				
24	156.037	0732 040 385	326963	Outer Spring De.6x34	6		(#)	●				
25	109.183	1304 332 075	699731	Synchronizer Cone	1		(#)	●				
25	109.393	1304 233 013	1369530	Synchronizer Cone	1		(@)	●				
26	109.173	1304 232 085	1311177	Synchronizer Cone	1	with ret.	(@)	●				
27	130.690	0750 116 048	699706	Roller Bearing D.78x130x25	1		(#)	●				
27		0750 116 197		Bearing D.80x140x26	1		(@)	●				
28		0734 319 439	1262887	Oil seal D.95x115x10	1		●					
29		1304 338 059	69681	Output Flange	1	D.150-4 H.	(#)	●				
29		1304 338 060		Output Flange	1	D.180-4 H.	(#)	●				
29		1304 338 050	69680	Output Flange	1	D.180-4 H.	(#)	●				
29		1304 338 053		Output Flange	1	D.180-8 H.	(#)	●				
29		1304 338 052	1209717	Output Flange	1	D.180-10 H.	(#)	●				
29		1304 338 067		Output Flange	1	D.204-4 H.	(#)	●				
29		1304 338 056		Output Flange	1	D.204-4 H.	(#)	●				

Notes

- (1) Version with 4 planet pinions .To be coupled together. **DO NO MIX** the qty
 (2) Version with 5 planet pinions .To be coupled together. **DO NO MIX** the qty
 (# - @) Different versions.To be coupled together. **DO NO MIX**

Date

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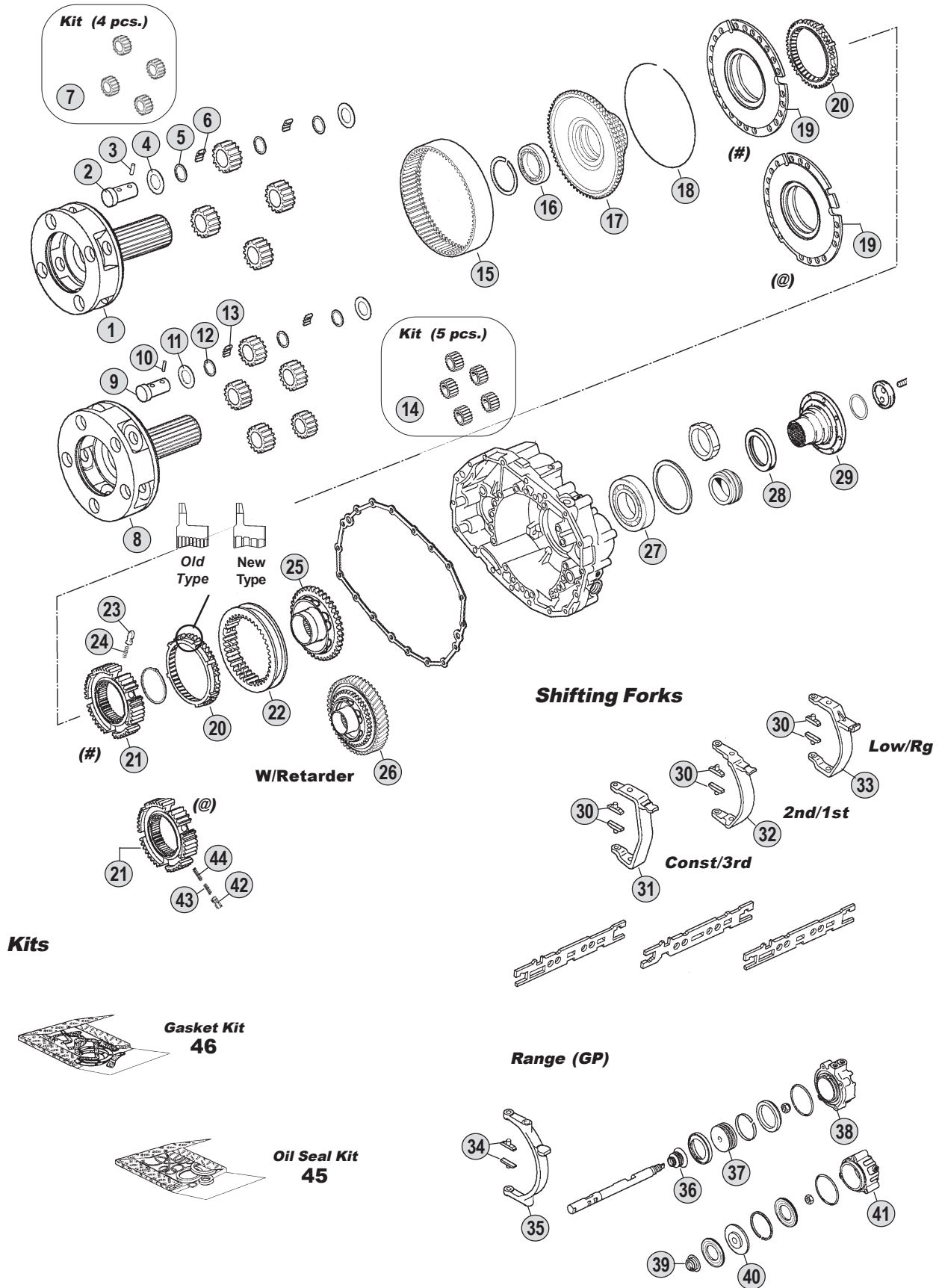
Table

0220 / B

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Suitable To : **ZF**

9S109



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Ratios

9S109 A : 10,24 - 0,74 B : 10,25 - 0,79 C : 12,91 - 1,00 D : 12,92 - 1,00

suitable to :

Z.F.

EcoMid

16S109

Application

	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

Ratio	Note
13,30-1,00	A
13,31-1,00	B
13,41-1,00	C
13,42-1,00	D
13,53-0,82	E

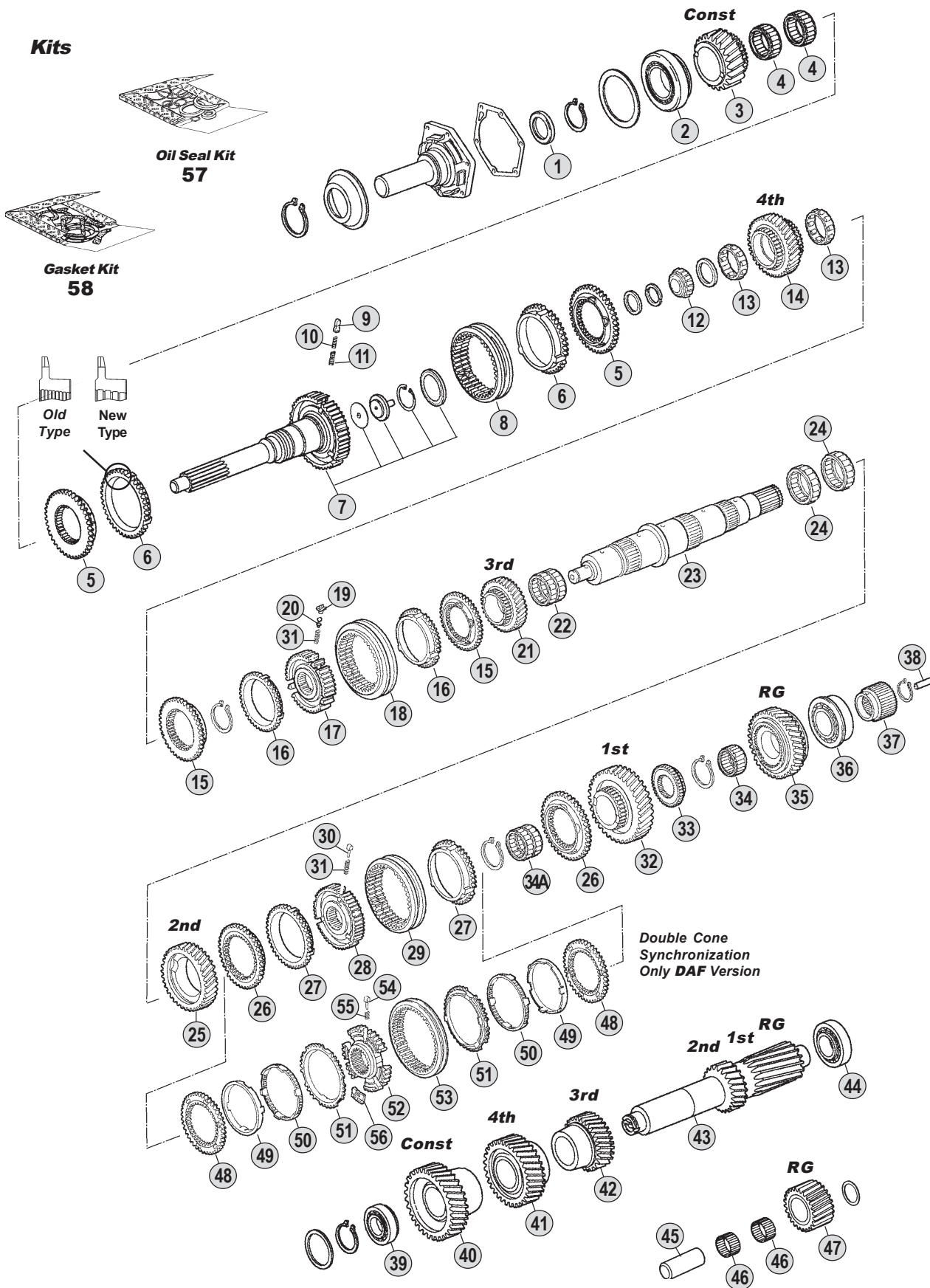
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ECOMID
16S109

Suitable To : **ZF**

16S109

Kits



Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	DAF no.								
1	139.753	0750 111 149	699617	Oil Seal D.48x65x10	1		●				
2	130.313	0750 117 079	699615	Bearing D.66,6x117,4x30,1	1		●				
3	145.478	1304 302 169	69637	Constant Gear	1		ABCD	●			
3	145.516	1304 302 150		Constant Gear 30 T	1		E	●			
4	137.142	0735 320 816	699640	Needle Cage D.75x83x23	2		●				
5	109.169	1304 302 188	69638	Synchronizer Cone	2		●				
6	119.149	1304 304 496	69639	Synchronizer Ring	2	Old Type	●				
6	119.173	1304 304 680	1350353	Synchronizer Ring	2	New Type	●				
7	190.311	1304 202 201	1268569	Input Shaft	1		●				
7	190.312	1304 202 202		Input Shaft	1		●				
7	190.298	1304 202 203		Input Shaft	1		●				
8	154.064	1240 304 272	326592	Sliding Sleeve	1		●				
9	160.116	1240 304 278	326962	Pressure Piece	3		●				
10	156.036	0732 040 386	326964	Inner Spring De.3x34	3		●				
11	156.037	0732 040 385	326963	Outer Spring De.6x34	3		●				
12	137.144	0735 371 406	1246829	Roller Cage D.32x33	1		●				
13	137.145	0750 115 299	69655	Needle Cage D.59,5x81,5x22	2		●				
14	146.397	1304 304 516	69656	Gear 4th Speed	1		ABCD	●			
14	146.439	1304 304 518	1305823	Gear 4th Speed 27 T	1		E	●			
15	109.170	1304 304 012	69652	Synchronizer Cone	2		●				
16	119.150	1304 304 014	699659	Synchronizer Ring	2	Old Type	●				
16	119.169	1304 304 683	1363793	Synchronizer Ring	2	New Type	●				
17	157.186	1304 304 515	69653	Synchronizer Hub	1		●				
18	154.199	1304 304 688	1382066	Sliding Sleeve	1		●				
19	188.096	1238 304 394	171350	Pressure Piece	3		●				
20	160.143	1249 304 222	171351	Plunger	3		●				
21	145.479	1304 304 475	69651	Gear 3rd Speed	1		ABCD	●			
21	145.518	1304 304 417	1305822	Gear 3rd Speed	1		E	●			
22	137.142	0735 320 816	699640	Needle Cage D.75x83x23	1		●				
23	103.129	1304 304 630	1246827	Main Shaft	1		●				
24	137.142	0735 320 816	699640	Needle Cage D.75x83x23	2		●				
25	145.480	1304 304 497	69645	Gear 2nd Speed 32 T	1		ABCD	●			
25	145.519	1304 304 422	1339408	Gear 2nd Speed	1		E	●			
26	109.171	1304 304 408	699642	Synchronizer Cone	2		●				
27	119.151	1304 304 542	67762	Synchronizer Ring	2	Old Type	●				
27	119.170	1304 304 681	1352001	Synchronizer Ring	2	New Type	●				
28	157.187	1304 304 653	1300674	Guide Sleeve 1st-2nd Speed	1		●				
29	154.200	1304 304 597	68512	Sliding Sleeve 1st-2nd Speed	1		●				
30	160.189	1297 304 436	68332	Pressure Piece	3		●				
31	156.140	0732 040 409	171349	Spring D.6,5x23,5	3		●				
32	145.533	1304 304 358	69648	Gear 1st Speed 37 T	1		AD	●			
32	145.481	1304 304 549		Gear 1st Speed 37 T	1		BC	●			
32	145.520	1304 304 376	1305818	Gear 1st Speed 38 T	1		E	●			
33	109.172	1304 304 007	69890	Synchronizer Cone	1		●				
34	137.147	0750 115 225	699635	Needle Cage D.60x68x39	1		●				

Notes

(*) DAF Models only. Do NO MIX Single Cone Synchron. with Double Cone Synchron.

Date

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Table

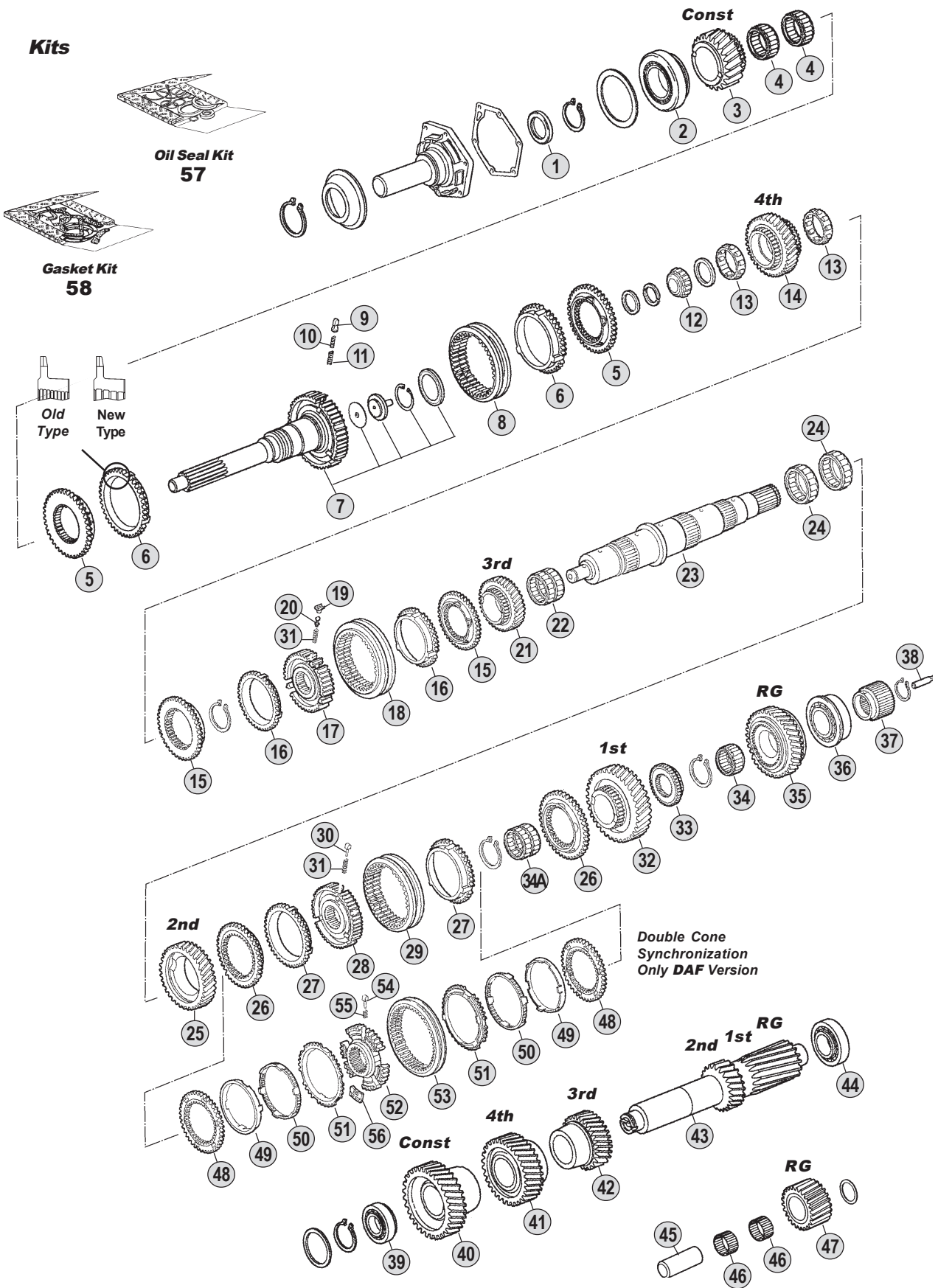
0230 / A

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Suitable To : **ZF**

16S109

Kits



Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	DAF no.											
34A	137.146	0750 115 224	69647	Needle Cage D.70x78x50	1		●							
35	147.146	1304 304 669	1305824	Reverse Gear 32 T	1		AD	●						
35	147.131	1304 304 671		Reverse Gear 35 T	1		BC	●						
35	147.149	1304 304 670	1305819	Reverse Gear 35 T	1		E	●						
36	130.315	0735 371 605	1305820	Bearing D.50,8x104,7x30,1	1			●						
37	157.188	1304 304 261	69650	Sun Gear 29 T	1		AB	●						
37	157.703	1304 304 608	69533	Sun Gear 30 T	1		CD	●						
37	157.201	1304 304 199	1305821	Sun Gear 21 T	1		E	●						
38	188.209	1312 304 150	1246838	Oil Tube	1			●						
39	130.314	0735 371 749	1197998	Bearing D.40x80x32	1			●						
40	146.394	1304 303 273	69643	Constant Gear	1		ABCD	●						
40	146.434	1304 303 283		Constant Gear 31 T	1		E	●						
41	146.395	1304 303 212	69642	Gear 4th Speed	1		ABCD	●						
41	146.436	1304 303 175	1305816	Gear 4th Speed 34 T	1		E	●						
42	146.396	1304 303 214	69641	Gear 3rd Speed	1		ABCD	●						
42	146.438	1304 303 192	1305815	Gear 3rd Speed	1		E	●						
43	105.115	1304 303 276	69640	Countershaft	1		AD	●						
43	105.099	1304 303 277	1365980	Countershaft 14 T	1		BC	●						
43	105.111	1304 303 279	1305814	Countershaft	1		E	●						
44	130.234	0750 117 083	586693	Bearing D.50,8x95,2x27,7	1			●						
45	107.156	1304 305 030	699607	Reverse Shaft	1			●						
46	137.143	0735 358 192	699608	Needle Cage D.40x60x26	2			●						
47	147.150	1304 305 039	69399	Reverse Gear 22 T	1		AD	●						
47	147.130	1304 305 040	1365979	Reverse Gear 21 T	1		BC	●						
47	147.145	1304 305 041	1305817	Reverse Gear 22 T	1		E	●						
48	109.407	1304 304 623	1296007	Synchronizer Cone	2		(*)	●						
49	119.221	1290 304 350	1268584	Internal Ring	2		(*)	●						
50	119.222	6002 306 154	1433230	Intermediate Ring	2		(*)	●						
51	119.223	1290 304 438	1268586	Outer Ring	2		(*)	●						
52	157.713	1304 304 687	1387269	Synchronizer Hub	1		(*)	●						
53	154.373	6002 305 994	1287575	Sliding Sleeve	1		(*)	●						
54	160.189	1297 304 436	68332	Pressure Piece	3		(*)	●						
55	156.140	0732 040 409	171349	Spring D.6,5x23,5	3		(*)	●						
56	156.176	1312 304 159	1300312	Pad	3		(*)	●						
57	298.026	1304 298 908	1344715	Oil Seal Kit	1			●						
58	198.945	1304 298 914	1363925	Gasket Kit	1			●						

Notes

(*) DAF Models only. Do NO MIX Single Cone Synchron. with Double Cone Synchron.

Date

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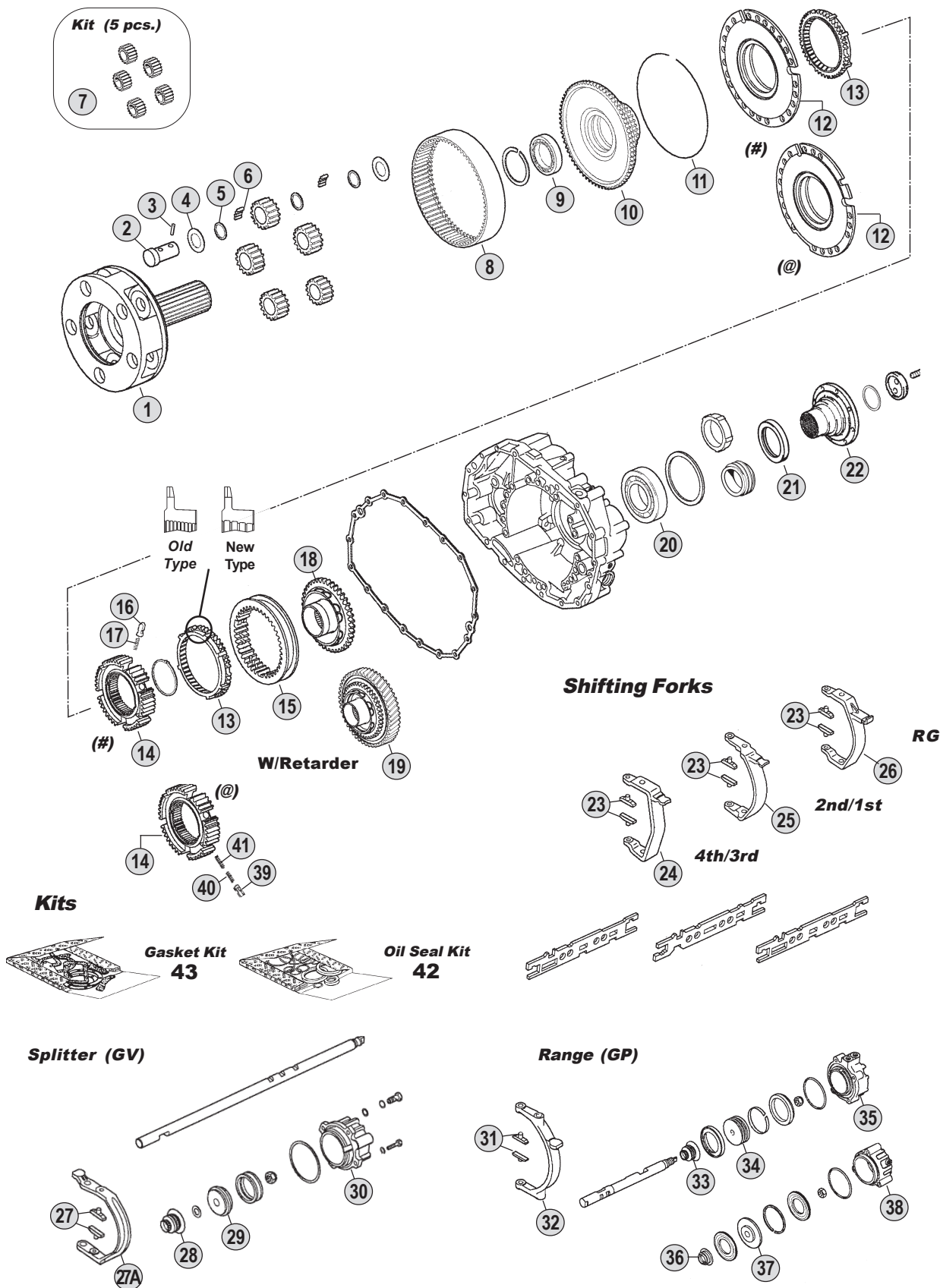
Table

0230 / A

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Suitable To : **ZF**

16S109



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Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	DAF no.										
1	190.389	1304 232 088	1308581	Planetary Carrier	1		ABCD	●					
1	190.390	1304 232 086	1305836	Planetary Carrier	1		E	●					
2	107.157	1304 332 111	66588	Planet Pin	5			●					
3	160.239	0631 329 037		Lock Pin 4x26	5			●					
4	169.396	0501 304 692	609490	Thrust Washer 1,50	10			●					
5	169.397	0730 103 102	609489	Spacer Ring 1,50	15			●					
6	171.044	0735 470 115	66587	Roller D.5x15,30	200			●					
7	198.795	1304 232 026	69679	Planetary Gear Set	1		AB	●					
7	298.022	1304 232 054	69537	Planetary Gear Set	1		CD	●					
7	198.815	1304 232 022	1305837	Planetary Gear Set	1		E	●					
8	123.210	1304 332 178	1262888	Crown Gear 86 T	1		AB	●					
8	123.266	1304 332 134	69539	Crown Gear 90 T	1		CD	●					
8	123.219	1304 332 043	1305841	Crown Gear 74 T	1		E	●					
9	130.265	0735 340 080	699719	Bearing D.70x90x10	1		(#)	●					
9	130.310	0750 116 165	69395	Bearing D.80x110x16	1		(@)	●					
10	150.141	1304 332 060	66630	Carrier Hub 86 T	1		AB (#)	●					
10	150.135	1304 332 215	1311153	Carrier Hub 86 T	1		AB (@)	●					
10	150.164	1304 332 135	69538	Carrier Hub 90 T	1		CD (#)	●					
10	150.166	1304 332 216		Carrier Hub 90 T	1		CD (@)	●					
10	150.139	1304 332 044	1305838	Carrier Hub 74 T	1		E (#)	●					
10	150.167	1304 332 217		Carrier Hub 74 T	1		E (@)	●					
11	111.264	0730 505 140	69540	Locking Wire	1		ABCD	●					
11	111.265	0730 505 092	1305842	Locking Wire	1		E	●					
12	198.817	1304 233 005	699727	Synchronizer Cone	1		(#)	●					
12	198.796	1304 233 006	1311173	Synchronizer Cone	1		(@)	●					
13	119.157	1304 333 005	699729	Synchronizer Ring	2	Old Type	(#)	●					
13	119.171	1304 333 021		Synchronizer Ring	2	New Type	(#)	●					
13	119.085	1296 333 022	1303708	Synchronizer Ring	2	Old Type	(@)	●					
13	119.172	1296 333 045	1354113	Synchronizer Ring	2	New Type	(@)	●					
14	157.205	1304 332 066	699728	Synchronizer Hub	1		(#)	●					
14	157.182	1313 333 001	69909	Synchronizer Hub	1		(@)	●					
15	154.210	1304 332 089	699730	Sliding Sleeve	1		(#)	●					
15	154.201	1304 333 011	1311176	Sliding Sleeve	1		(@)	●					
16	160.116	1240 304 278	326962	Pressure Piece	6		(#)	●					
17	156.037	0732 040 385	326963	Outer Spring De.6x34	6		(#)	●					
18	109.183	1304 332 075	699731	Synchronizer Cone	1		(#)	●					
18	109.393	1304 233 013	1369530	Synchronizer Cone	1		(@)	●					
19	109.397	1304 313 133	1227513	Synchronizer Cone	1	with retarder	(#)	●					
19	109.173	1304 232 085	1311177	Synchronizer Cone	1	with retarder	(@)	●					
20	130.690	0750 116 048	699706	Roller Bearing D.78x130x25	1		(#)	●					
20		0750 116 197		Bearing D.80x140x26	1		(@)	●					
21		0734 319 439	1262887	Oil seal D.95x115x10	1			●					
22		1304 338 059	69681	Output Flange	1	D.150-4H.	(#)	●					
22		1304 338 050	69680	Output Flange	1	D.180-4H.	(#)	●					
22		1304 338 052	1209717	Output Flange	1	D.180-10H.	(#)	●					

Notes

- @) Different versions.To be coupled together. DO NO MIX

Date

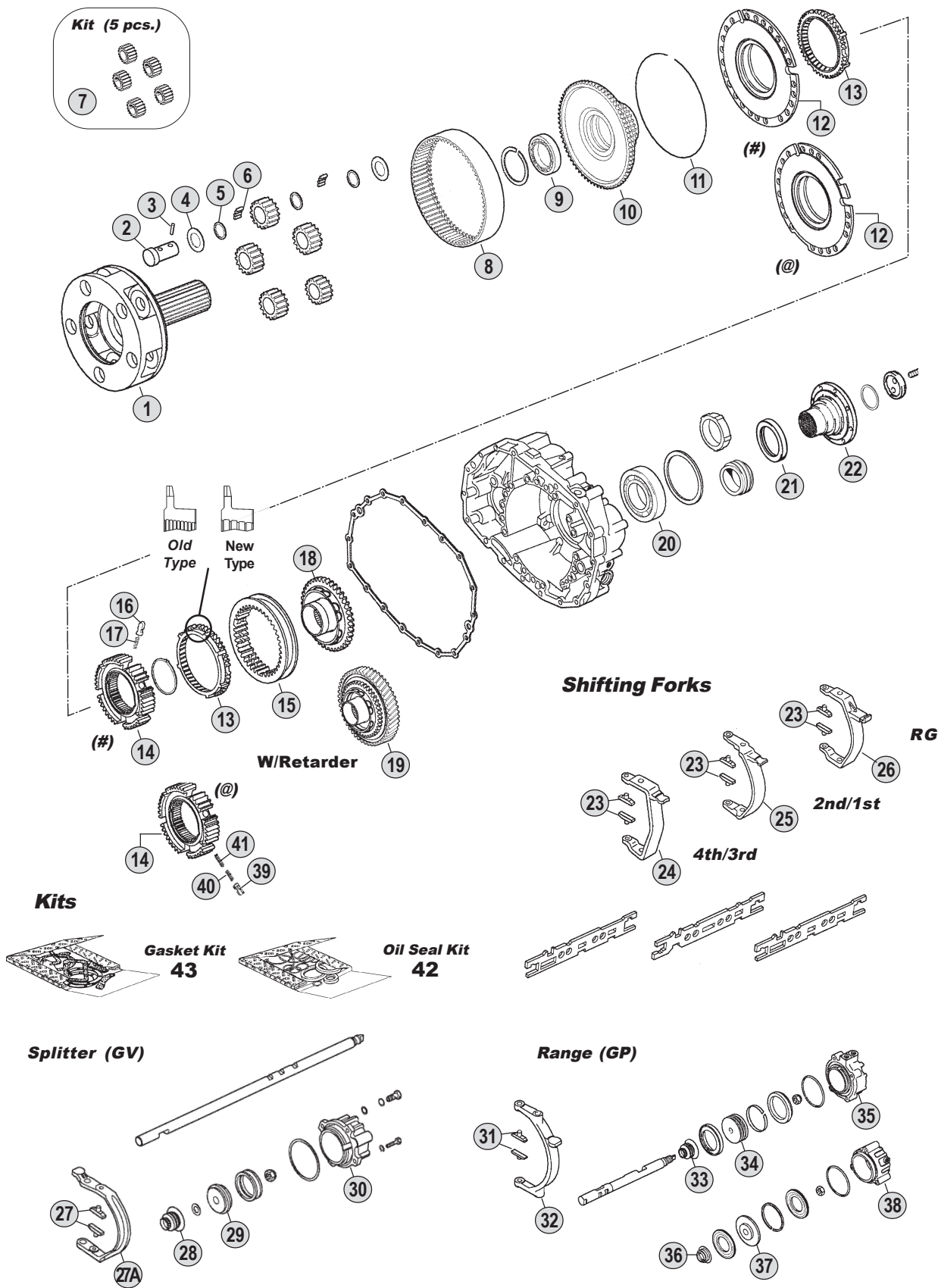
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Table

0230 / B

Suitable To : **ZF**

16S109



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Ratios

16S109 A: 13,30 - 1,00 B: 13,31 - 1,00 C: 13,41 - 1,00 D: 13,42 - 1,00 E: 13,53 - 0,82



Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	DAF no.										
22		1304 338 056		Output Flange	1	D.204-4H.	(#)	●					
22		1304 338 097	1142221	Output Flange	1	D.180-4H.	(@)	●					
22		1304 338 109		Output Flange	1	D.180-4H.	(@)	●					
23	141.194	1290 306 066	689470	Bronze Slide	2			●					
24		1304 306 010	699666	Fork	1			●					
24		1304 306 044	699755	Fork	1			●					
25		1304 306 009	699668	Fork	1			●					
25		1304 306 043	699754	Fork	1			●					
26		1304 306 011	69662	Fork	1			●					
27	141.146	1268 312 057	692686	Slide	2			●					
27A		1304 312 003	69673	Fork	1			●					
28		0750 112 047	699733	Oil seal	1			●					
29	189.421	1296 312 053	69363	Piston	1			●					
30		1304 212 005	69670	Cylinder	1			●					
31	141.061	1272 334 003	140936	Bronze Slide	2			●					
32		1304 334 039	699739	Fork	1		(#)	●					
32		1304 334 063		Fork	1		(@)	●					
33		0750 112 047	699733	Oil seal	1		(#)	●					
34		1304 334 072	1299322	Piston	1		(#)	●					
35		1304 334 061	1246832	Cylinder	1		(#)	●					
36		0750 112 047	699733	Oil seal	1		(@)	●					
37		1315 334 041	1369533	Piston	1		(@)	●					
38		1304 334 079	1369535	Cylinder	1		(@)	●					
39	160.116	1240 304 278	326962	Pressure Piece	9		(@)	●					
40	156.037	0732 040 385	326963	Outer Spring De.6x34	9		(@)	●					
41	156.036	0732 040 386	326964	Inner Spring De.3x34	9		(@)	●					
42	298.026	1304 298 908	1344715	Oil Seal Kit	1			●					
43	198.945	1304 298 914	1363925	Gasket Kit	1			●					

Notes

(# - @) Different versions.To be coupled together. DO NO MIX

Date

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Table

0230 / B

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Suitable to: **Volvo**

Gearboxes Index

EcoLite
Bus Applications

S6-85
6S-1600

EcoMid
Truck Applications

9S75

VOLVO
INDEX

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suitable to :

Z.F.

EcoLite

S6-85

Application

	S6-85	6S-1600				
	(1310)	(1310)				
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

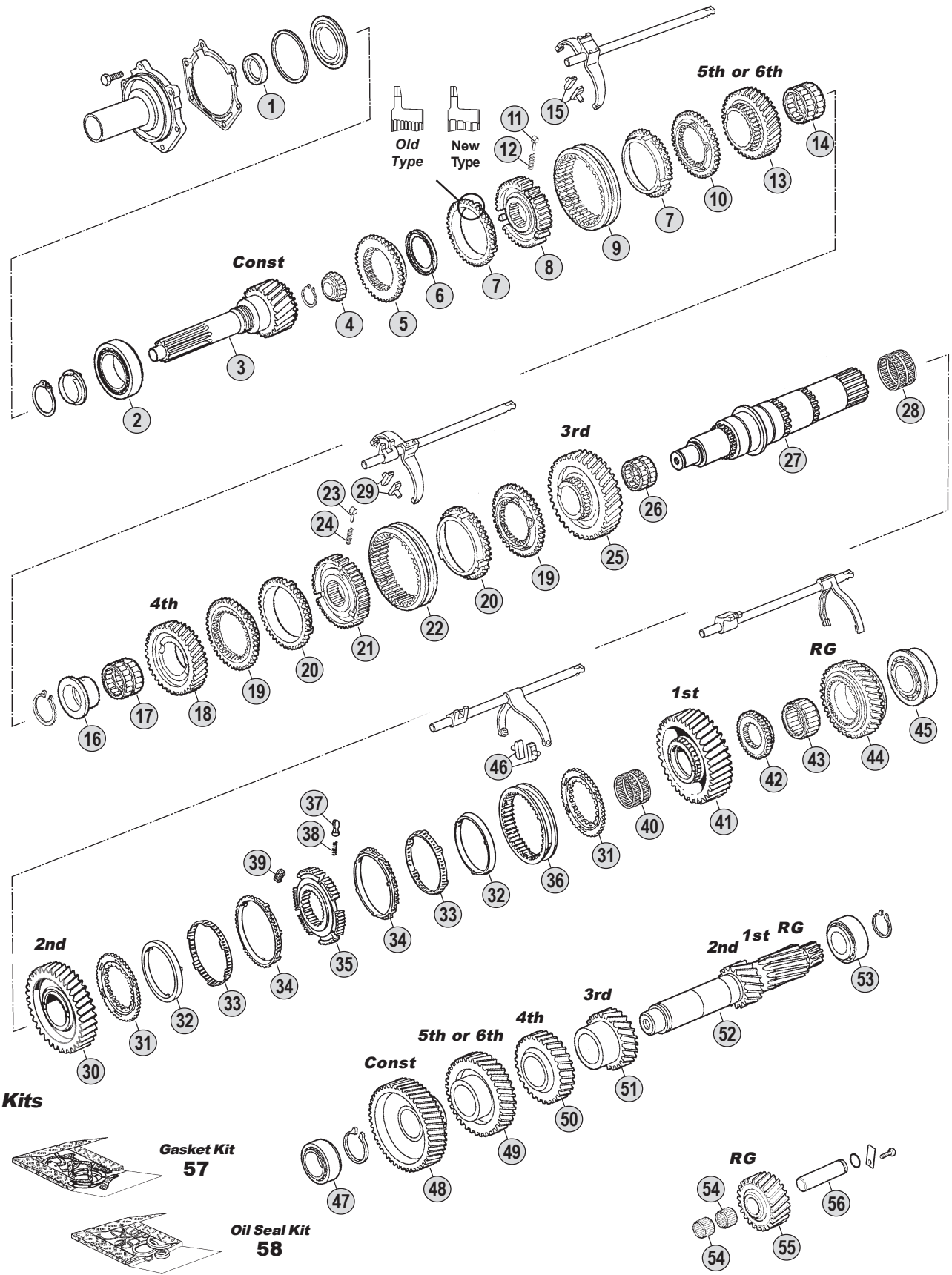
Ratio	Note
6,75-0,83	A
7,72-1,00	B

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ECOLITE
S6-85

Suitable To : **ZF**

S6-85



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Ratios

S6-85 A : 6,75 - 0,83 B : 7,72 - 1,00

S6-85 (1310)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	VOLVO no.					S6-85 (1310)				
1	139.753	0750 111 149	3121548	Oil Seal D.48x65x10	1		●					
2	130.704	0750 117 347		Bearing D.70x115x29	1		●					
3	102.387	1310 302 001		Input Shaft	1		A ●					
3	102.388	1310 302 025		Input Shaft	1		A ●					
3	102.389	1310 302 032		Input Shaft	1		A ●					
3	102.390	1310 302 026		Input Shaft	1		B ●					
3	102.391	1310 302 022	3097112	Input Shaft	1		B ●					
3	102.392	1310 302 021		Input Shaft	1		B ●					
3	102.393	1310 302 033		Input Shaft	1		B ●					
4		0750 117 562	3097023	Bearing D.28x32	1		●					
5	109.400	1310 302 023		Synchronizer Cone	1		A ●					
5	109.401	1310 302 024	3097046	Synchronizer Cone	1		B ●					
6	269.011	0501 313 171	3097005	Oil Seal	1		●					
7	119.219	1311 304 076		Synchronizer Ring	2	Old Type	●					
7	119.220	1311 304 255	3121711	Synchronizer Ring	2	New Type	●					
8	157.706	1311 304 226	1699780	Synchronizer Hub	1		●					
9	154.363	1304 304 664	3121710	Sliding Sleeve	1		●					
10	109.402	1311 304 009	3121692	Synchronizer Cone	1		●					
11	160.189	1297 304 436	3121706	Pressure Piece	3		●					
12	156.140	0732 040 409	266459	Spring D.6,5x23,5	3		●					
13	145.886	1310 304 091		Gear 6th Speed 23 T	1		A ●					
13	145.887	1310 304 092	3097056	Gear 5th Speed 26 T	1		B ●					
14	137.269	0735 321 543	3121670	Needle Cage D.52x60x23	1		●					
15	141.194	1290 306 066	3123293	Bronze Slide	2		●					
16	117.384	1311 304 124	3121666	Bush	1		●					
17	137.078	0735 320 493	3121665	Needle Bearing D.70x78x36,50	1		●					
18	145.888	1310 304 088		Gear 4th Speed 29 T	1		A ●					
18	145.889	1310 304 093	3097057	Gear 4th Speed 30 T	1		B ●					
19	109.134	1312 304 027	3097062	Synchronizer Cone	2		●					
20	119.119	1297 304 402	3097026	Synchronizer Ring	2	Old Type	●					
20	119.167	1297 304 484	1662711	Synchronizer Ring	2	New Type	●					
21	157.707	1310 304 080	3097060	Synchronizer Hub	1		●					
22	154.135	1310 304 202	3097061	Sliding Sleeve	1		●					
23	160.189	1297 304 436	3121706	Pressure Piece	3		●					
24	156.140	0732 040 409	266459	Spring D.6,5x23,5	3		●					
25	145.890	1310 304 085		Gear 3rd Speed 35 T	1		A ●					
25	145.891	1310 304 124	3097322	Gear 3rd Speed 37 T	1		B ●					
26	137.270	0735 321 106	3123323	Needle Cage D.80x88x48	1		●					
27	103.195	1311 304 248	1699779	Main Shaft	1		●					
28	137.270	0735 321 106	3123323	Needle Cage D.80x88x48	1		●					
29	141.194	1290 306 066	3123293	Bronze Slide	2		●					
30	145.892	1310 304 012	3097052	Gear 2nd Speed 43 T	1		●					
31	109.176	1312 304 106	3097059	Synchronizer Cone	2		●					
32	119.152	1268 304 424	3097024	Intermediate Ring	2		●					
33	119.153	1268 304 494		Intermediate Cone	2		●					

Notes

Date

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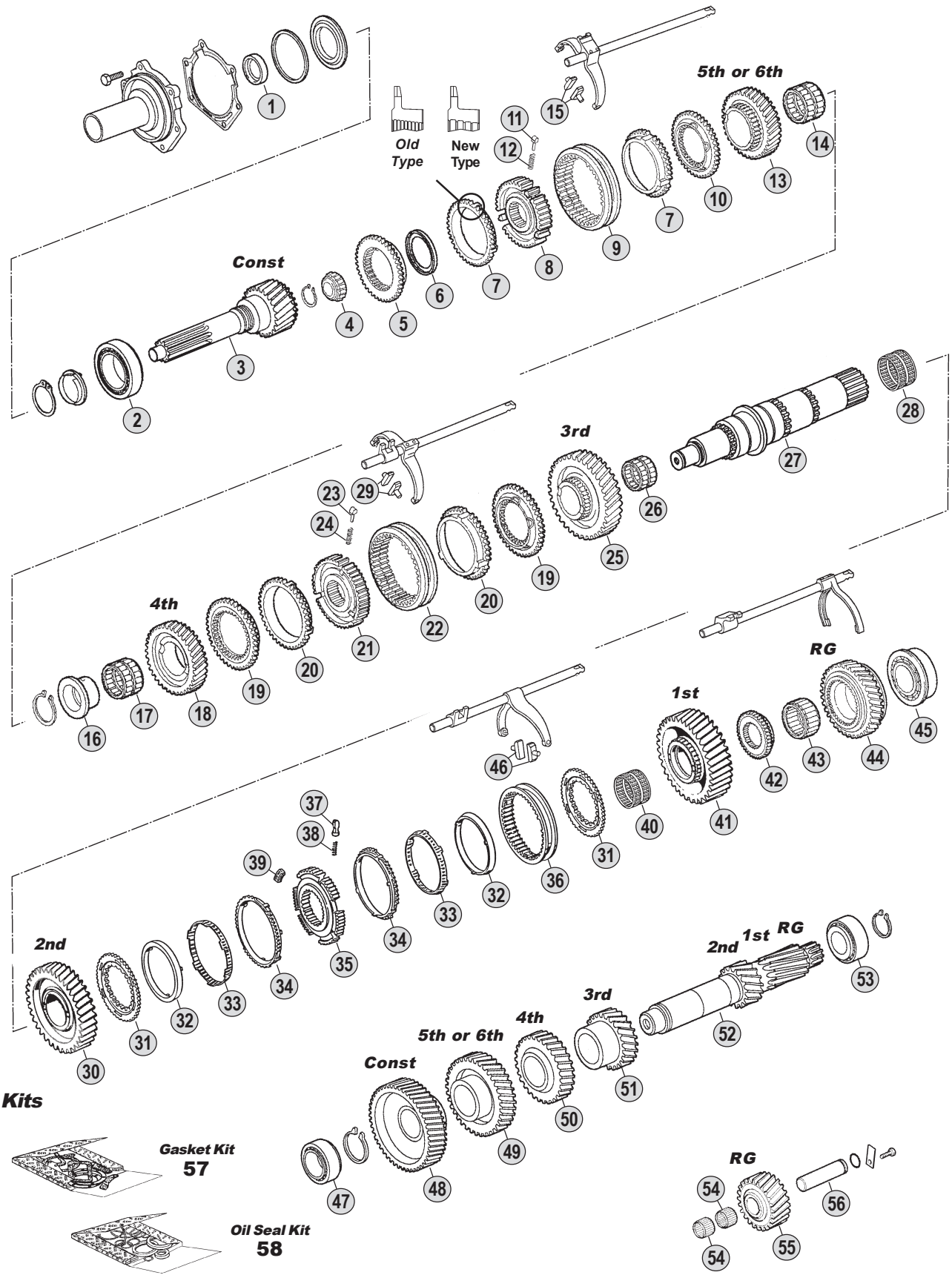
Table

0240

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Suitable To : **ZF**

S6-85



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Ratios

S6-85 A : 6,75 - 0,83 B : 7,72 - 1,00

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	VOLVO no.										
34	119.144	1268 304 525	3097058	Synchronizer Ring	2			●					
35	157.708	1310 304 157	3093898	Synchronizer Hub	1			●					
36	154.190	1310 304 175	3097064	Sliding Sleeve	1			●					
37	160.189	1297 304 436	3121706	Pressure Piece	3			●					
38	156.140	0732 040 409	266459	Spring D.6,5x23,5	3			●					
39	156.176	1312 304 159	3121703	Pad	3			●					
40	137.271	0735 321 108	3123325	Needle Cage D.75x83x50	1			●					
41	145.893	1310 304 011	3097051	Gear 1st Speed 50 T	1			●					
42	157.709	1311 304 250	3121683	Synchronizer Hub	1			●					
43	137.272	0735 298 255	3093888	Needle Cage D.70x86x42,5	1			●					
44	147.238	1310 304 200	3093886	Reverse Gear	1			●					
45	130.705	0735 370 730	3123328	Bearing D.60x120x29,7	1			●					
46	141.194	1290 306 066	3123293	Bronze Slide	2			●					
47	130.234	0750 117 083	6635263	Bearing D.50,8x95,2x27,7	1			●					
48	146.600	1310 303 032		Constant Gear 47 T	1		A	●					
48	146.605	1310 303 044	3097047	Constant Gear 50 T	1		B	●					
49	146.609	1310 303 033		Gear 6th Speed 45 T	1		A	●					
49	146.610	1310 303 045	3097048	Gear 5th Speed 37 T	1		B	●					
50	146.611	1310 303 051		Gear 4th Speed 32 T	1		A	●					
50	146.612	1310 303 050	3097050	Gear 4th Speed 29 T	1		B	●					
51	146.613	1310 303 031		Gear 3rd Speed 24 T	1		A	●					
51	146.614	1310 303 052	3097316	Gear 3rd Speed 24 T	1		B	●					
52	105.191	1310 303 076		Countershaft	1			●					
53	130.233	1246 203 008	3121635	Roller Bearing D.44,45x95,25x28	1			●					
54	137.273	0750 115 233	3121676	Needle Cage D.30x38x30	2			●					
55	147.239	1310 305 003	3097065	Reverse Gear 21 T	1			●					
56	107.201	1310 305 001	3121675	Reverse Pin	1			●					
57	298.039	1310 298 002		Gasket Kit	1			●					
58	298.040	1310 298 003		Oil Seals Kit	1			●					

Notes

Date

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Table

0240

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suitable to :

Z.F.

EcoLite

6S-1600

Application

	6S-85 (1310)	6S-1600 (1310)				
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

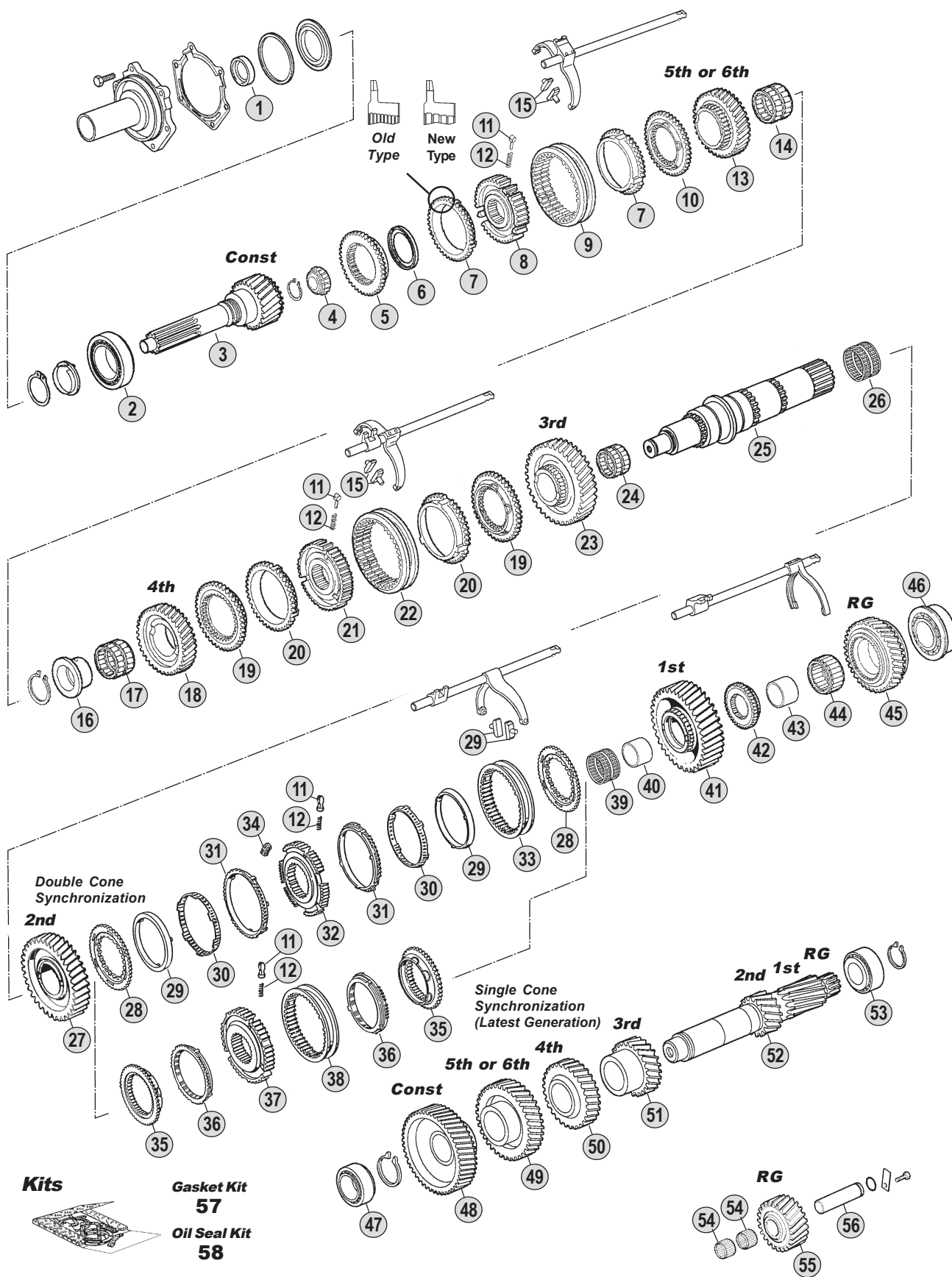
Ratio	Note
6,32-0,81	A
7,72-1,00	B

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ECOLITE
6S-1600

Suitable To : **ZF**

6S-1600



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Ratios

S6-1600 A : 6,32 - 0,81 B : 7,72 - 1,00

6S-1600 (1310)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.					VOLVO no.				
1	139.754	0734 310 386	1526688	Oil Seal D.55x75x8	1		●				
2	130.706	0750 117 518	3096863	Roller Bearing D.71,4x120x32,5	1		●				
3	102.394	1310 302 094		Input Shaft 31 T	1		A	●			
3	102.395	1310 302 097		Input Shaft 31 T	1		A	●			
3	102.396	1310 302 089		Input Shaft 31 T	1		A	●			
3	102.397	1310 302 088		Input Shaft 27 T	1		B	●			
3	102.398	1310 302 090		Input Shaft 27 T	1		B	●			
3	102.399	1310 302 096		Input Shaft 27 T	1		B	●			
3	102.400	1310 302 092		Input Shaft 27 T	1		B	●			
3	102.401	1310 302 082		Input Shaft 27 T	1		B	●			
4	137.150	0750 117 232		Roller Cage D.42x81x40,30	1		●				
5	109.403	1310 302 045	3096820	Synchronizer Cone	1		●				
6		0501 315 236	3096822	Ring	1		●				
7	119.118	1268 304 445		Synchronizer Ring	2	Old Type	●				
7	119.142	1268 304 594	3121716	Synchronizer Ring	2	New Type	●				
8	157.710	1310 304 158	3096875	Synchronizer Hub	1		●				
9	154.371	1310 304 195	3121714	Sliding Sleeve	1		●				
10	109.404	1310 304 161	3096874	Synchronizer Cone	1		●				
11	160.189	1297 304 436	3121706	Pressure Piece	3		●				
12	156.140	0732 040 409	266459	Spring D.6,5x23,5	3		●				
13	145.894	1310 304 138		Gear 6th Speed 23 T	1		A	●			
13	145.895	1310 304 137	3096873	Gear 5th Speed 27 T	1		B	●			
14	137.274	0735 321 396	3096872	Needle Cage D.65x73x48	1		●				
15	141.194	1290 306 066	3123293	Bronze Slide	2		●				
16		0730 162 753	3096868	Bush	1		●				
17	137.275	0735 321 392	3096869	Needle Cage D.85x93x44	1		●				
18	145.896	1310 304 178		Gear 4th Speed 28 T	1		A	●			
18	145.897	1310 304 177	3096871	Gear 4th Speed 28 T	1		B	●			
19	109.134	1312 304 027	3097062	Synchronizer Cone	2		●				
20	119.119	1297 304 402	3097026	Synchronizer Ring	2	Old Type	●				
20	119.167	1297 304 484	1662711	Synchronizer Ring	2	New Type	●				
21	157.180	1312 304 052		Synchronizer Hub	1		●				
22	154.135	1310 304 202	3097061	Sliding Sleeve	1		●				
23	145.898	1310 304 186		Gear 3rd Speed 34 T	1		A	●			
23	145.899	1310 304 185	3096870	Gear 3rd Speed	1		B	●			
24	137.276	0735 321 432	3096851	Needle Cage D.92x100x49,5	1		●				
25	103.196	1310 304 189	3096850	Main Shaft	1		●				
26	137.276	0735 321 432	3096851	Needle Cage D.92x100x49,5	1		●				
27	145.900	1310 304 196	3096852	Gear 2nd Speed 43 T	1		●				
28	109.176	1312 304 106	3097059	Synchronizer Cone	2		●				
29	119.152	1268 304 424	3097024	Intermediate Ring	2		●				
30	119.153	1268 304 494		Intermediate Cone	2		●				
31	119.144	1268 304 525	3097058	Synchronizer Ring	2		●				
32	157.181	1312 304 158		Synchronizer Hub	1		●				
33	154.190	1310 304 175	3097064	Sliding Sleeve	1		●				

Notes

(*) Latest Models only. Do NO MIX Single Cone Synchron. with Double Cone Synchron.

Date

07 / 2006

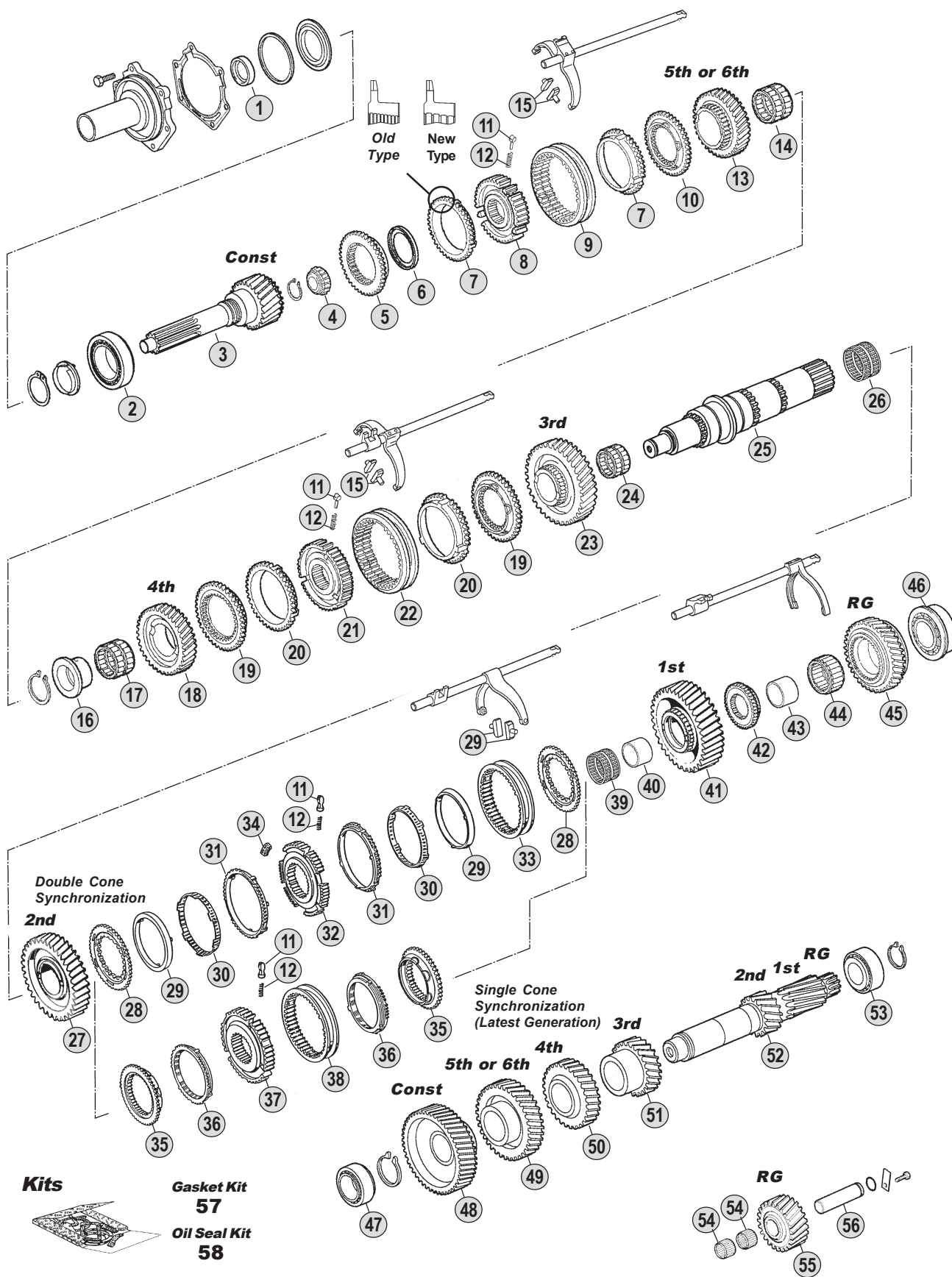
Table

0250

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Suitable To : **ZF**

6S-1600



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Ratios

S6-1600 A : 6,32 - 0,81 B : 7,72 - 1,00

6S-1600 (1310)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	VOLVO no.									
34	156.176	1312 304 159	3121703	Pad	3			●				
35	109.132	1313 304 009	3096853	Synchronizer Cone	2		(*)	●				
36	119.122	1297 304 401		Synchronizer Ring	2	Old Type	(*)	●				
36	119.166	1297 304 485	3096856	Synchronizer Ring	2	New Type	(*)	●				
37	157.189	1313 304 008		Synchronizer Hub	1		(*)	●				
38	154.202	1316 304 078		Sliding Sleeve	1		(*)	●				
39	137.276	0735 321 432	3096851	Needle Cage D.92x100x49,5	1			●				
40		0735 295 148		Bush	1			●				
41	145.901	1310 304 182	3096858	Gear 1st Speed 50 T	1			●				
42	157.711	1310 304 188	3096859	Hub	1			●				
43		0750 119 131	3096860	Bush	1			●				
44	137.277	0735 321 394	3096861	Needle Cage D.82x90x47	1			●				
45	147.240	1310 304 201	3096862	Reverse Gear	1			●				
46	130.706	0750 117 518	3096863	Roller Bearing D.71,4x120x32,5	1			●				
47	130.234	0750 117 083	6635263	Bearing D.50,8x95,2x27,7	1			●				
48	146.615	1310 303 069		Constant Gear 47 T	1		A	●				
48	146.616	1310 303 068	3096848	Constant Gear 50 T	1		B	●				
49	146.617	1310 303 059		Gear 6th Speed 43 T	1		A	●				
49	146.618	1310 303 074	3096847	Gear 5th Speed 39 T	1		B	●				
50	146.619	1310 303 062		Gear 4th Speed 32 T	1		A	●				
50	146.620	1310 303 075	3096846	Gear 4th Speed 29 T	1		B	●				
51	146.621	1310 303 072		Gear 3rd Speed	1		A	●				
51	146.622	1310 303 073	3096830	Gear 3rd Speed	1		B	●				
52	105.192	1310 303 053	3096829	Countershaft	1			●				
53	130.233	1246 203 008	3121635	Roller Bearing D.44,45x95,25x28	1			●				
54	137.273	0750 115 233	3121676	Needle Cage D.30x38x30	2			●				
55	147.241	1310 305 011	3096815	Reverse Gear	1			●				
56	107.201	1310 305 001	3121675	Reverse Pin	1			●				
57	298.041	1310 298 018		Gasket Kit	1			●				
58	298.042	1310 298 020		Oil Seals Kit	1			●				

Notes

(*) Latest Models only. Do NO MIX Single Cone Synchron. with Double Cone Synchron.

Date

07 / 2006

Table

0250

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suitable to :

Z.F.

EcoMid

9S75

Application

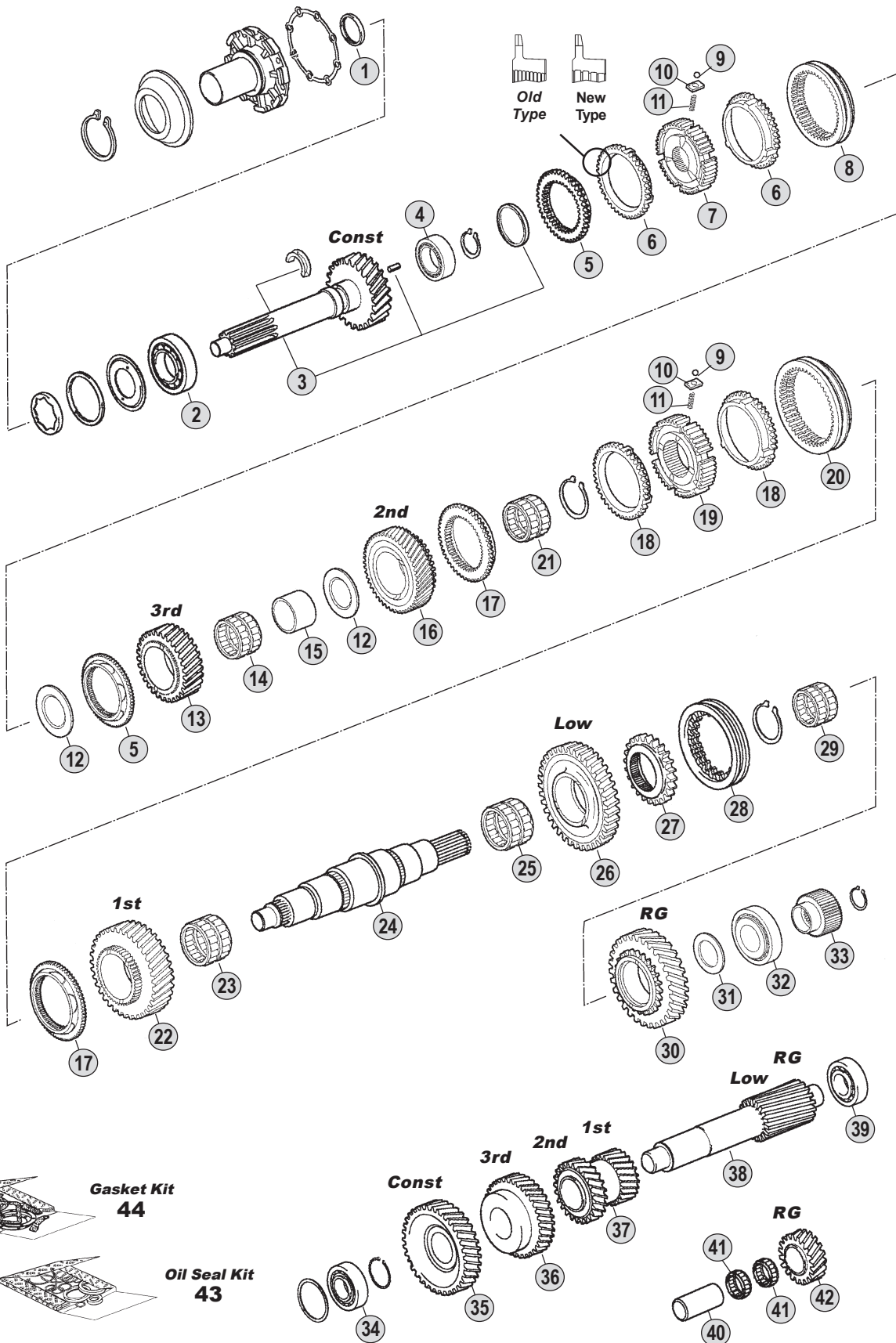
	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

Ratio	Note
13,16-1,00	--

Suitable To : **ZF**

9S75



Kits



Ratios

9S75 Ratio : 13,16 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	9S75 (1/308)						
		ZF no.	VOLVO no.											
1	139.753	0750 111 149	3121548	Oil Seal D.48x65x10	1		●							
2	130.686	0750 117 312	1699880	Roller Bearing D.50,8x104,7x30,	1		●							
3	190.331	1308 202 052		Input Shaft 26 T	1		●							
3		1308 202 058		Input Shaft 26 T	1		●							
3	190.397	1308 202 048	1699878	Input Shaft 26 T	1		●							
3		1308 202 049		Input Shaft 26 T	1	(1)	●							
3		1308 202 050		Input Shaft 26 T	1	(1)	●							
4		1307 203 019	1699930	Roller bearing D.31,7x66,4x25,4	1		●							
5	109.135	1308 304 078	1699879	Synchronizer Cone	2		●							
6	119.174	1308 304 072		Synchronizer Ring	2	Old type	●							
6	119.117	1308 304 097	1699923	Synchronizer Ring	2	New Type	●							
7	157.219	1307 304 607	1699922	Synchronizer Hub	1		●							
8	154.170	1308 304 090	1699924	Sliding Sleeve	1		●							
9	171.014	0635 460 010	190288	Ball D.6	3		●							
10	139.553	1307 304 156	1699913	Slide	3		●							
11	156.178	0732 041 571	1699912	Spring	3		●							
12	269.008	0730 108 172	1699919	Washer A=4,15	2		●							
13	145.826	1308 304 064	1699910	Gear 3rd Speed 30 T	1		●							
14	137.264	0735 321 494	1699917	Needle Cage 60x68x41,6	1		●							
15	117.379	0730 162 428	1699920	Bush A=42,30	1		●							
16	145.521	1308 304 054	1699918	Gear 2nd Speed 30 T	1		●							
17	109.137	1308 304 077	1699907	Synchronizer Cone	2		●							
18	119.116	1308 304 070		Synchronizer Ring	2	Old Type	●							
18	119.141	1308 304 096	1699909	Synchronizer Ring	2	New Type	●							
19	157.220	1307 304 608	1699908	Synchronizer Hub	1		●							
20	154.171	1308 304 091	1699911	Sliding Sleeve	1		●							
21	137.264	0735 321 494	1699917	Needle Cage 60x68x41,6	1		●							
22	145.838	1308 304 057	1699906	Gear 1st Speed 34 T	1		●							
23	137.263	0735 321 012	1699905	Needle Cage 67x75x44	1		●							
24	103.137	1308 304 053	1699904	Main Shaft	1		●							
25	137.261	0750 115 427	1699932	Needle Cage 67x75x37	1		●							
26	145.837	1308 304 086	3094541	Gear Low Speed 37 T	1		●							
27	109.136	1308 304 051	1699934	Fixed Hub	1		●							
28	154.364	1308 304 087	3094540	Sliding Sleeve	1		●							
29	137.262	0750 115 533	1699936	Needle Cage 60x68x31,3	1		●							
30	147.237	1308 304 052	1699937	Reverse Gear 33 T	1		●							
31	269.007	0730 106 496	1699938	Washer A=4,00	1		●							
32	130.233	1246 203 008	3121635	Roller Bearing D.44,45x95,25x28	1		●							
33	157.200	1308 304 059	1699939	Sun Gear 30 T	1		●							
34	130.688	0735 370 742	1699897	Roller Bearing D.39,6x79,9x29,3	1		●							
35	146.432	1308 303 023	1699896	Constant Gear 37 T	1		●							
36	146.585	1308 303 027	1699895	Gear 3rd Speed 32 T	1		●							
37	143.124	1308 303 021	1699894	Double Gear 1st/2nd Sp.-23/19	1		●							
38	105.189	1308 303 022		Countershaft 14 T	1		●							
39	130.687	0750 117 198	1699893	Roller Bearing D.39,6x76,2x23,8	1		●							

Notes

(1) Special Turkish applications. (BMC, CRYSLER-ASKAM etc..)

Date

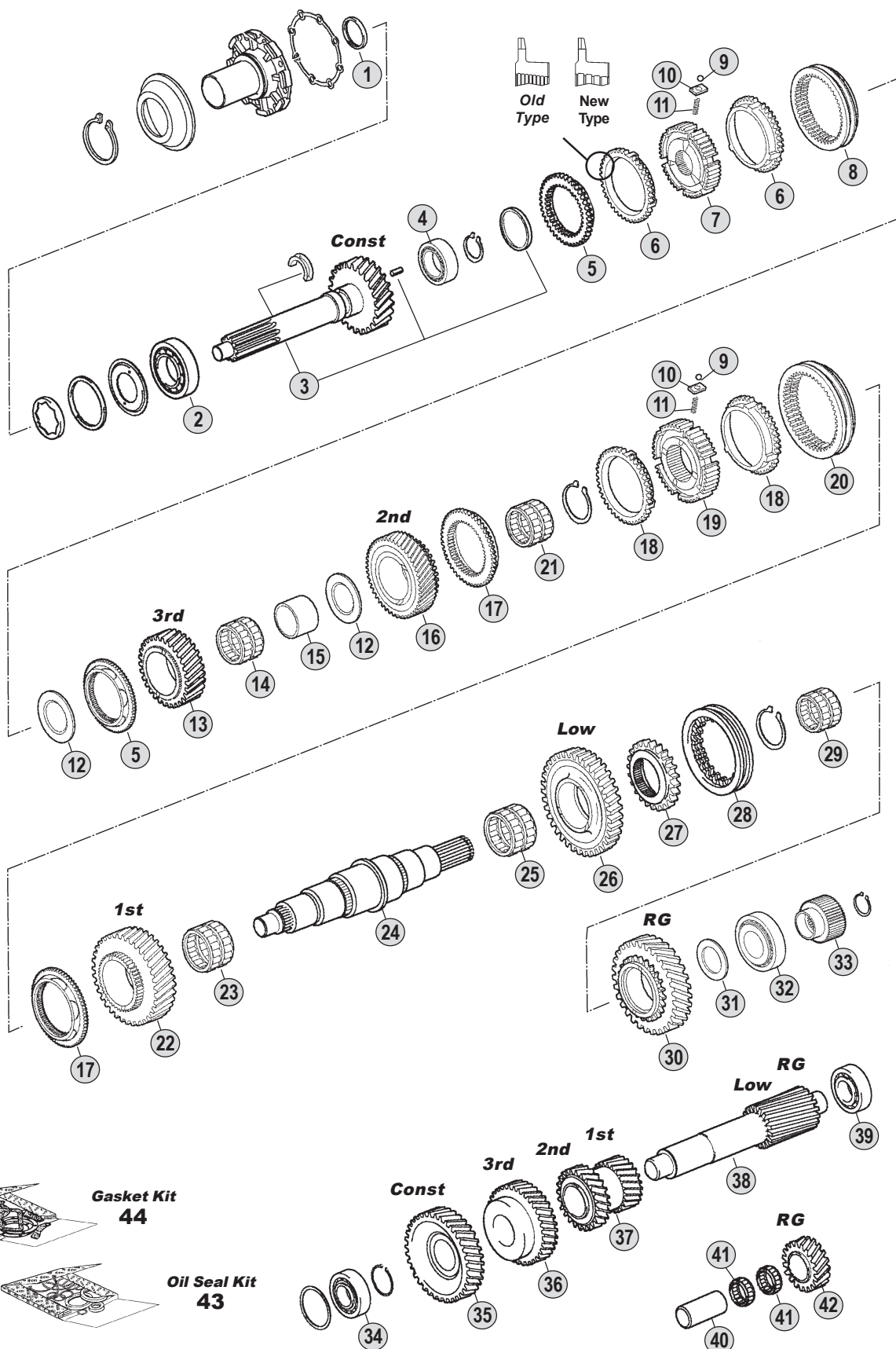
07 / 2006

Table

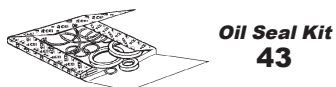
0260 / A

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Suitable To : **ZF**



Kits



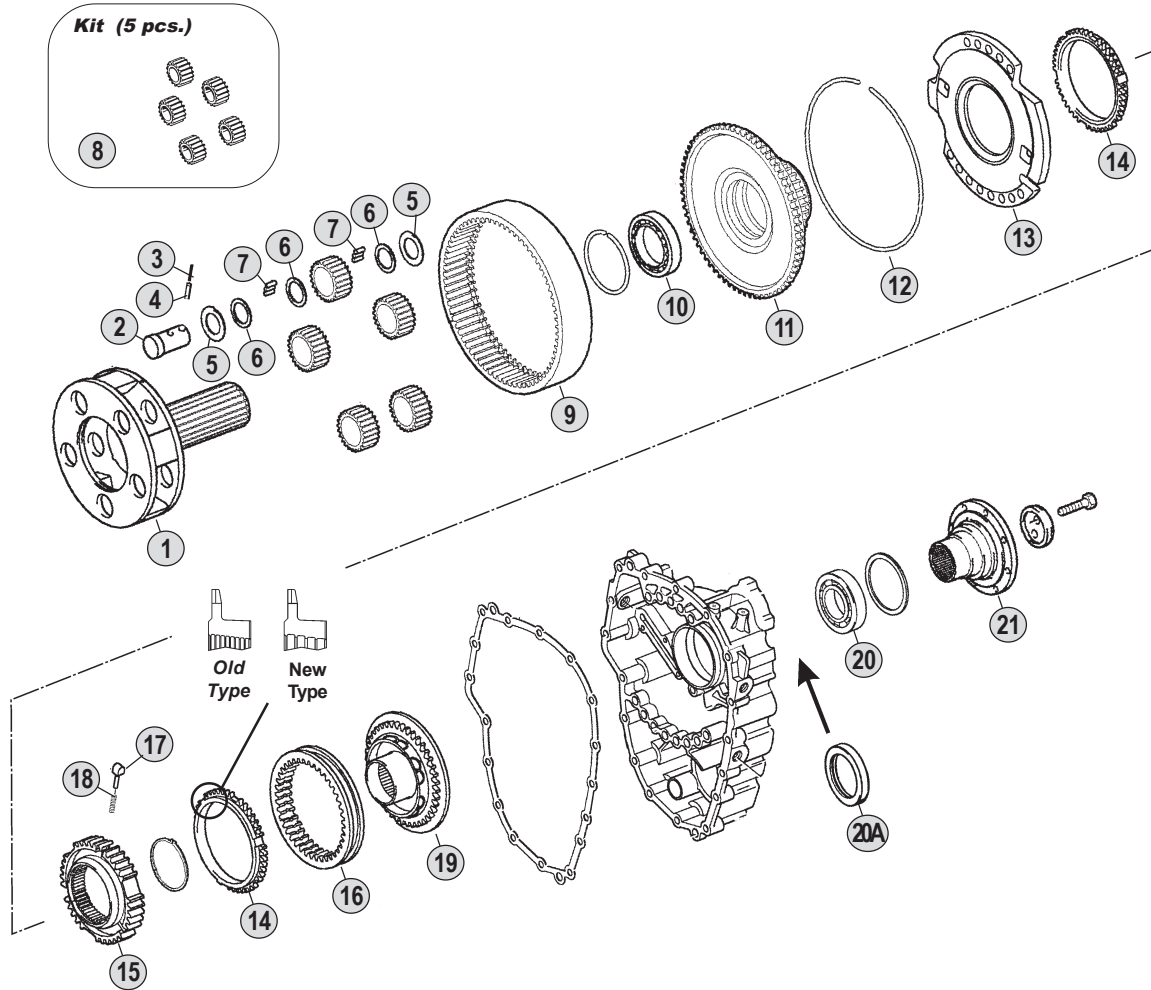
Ratios

9S75 Ratio : 13,16 - 1,00

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Suitable To : **ZF**

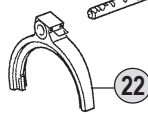
9S75



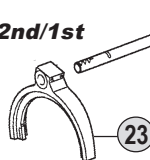
Kits



Const/3rd

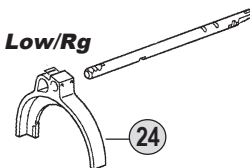


2nd/1st

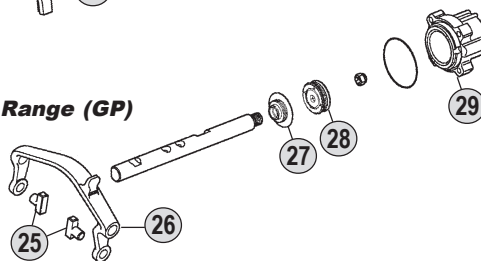


Shifting Forks

Low/Rg



Range (GP)



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Ratios

9S75 Ratio : 13,16 - 1,00

9S75 (1308)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					VOLVO no.	9S75						
1	190.350	1308 232 011		Planetary Carrier	1		●							
1		1308 232 009		Planetary carrier	1 (*)		●							
2	107.138	1308 332 004	1699988	Planet Pin	5		●							
3	160.241	0631 329 175		Lock Pin 3x22	5		●							
4	160.240	0631 329 049	1339716	Lock Pin 5x22	5		●							
5	169.396	0730 150 767		Thrust Washer 1,50	10		●							
6	169.397	0730 103 102		Spacer Ring 1,50	15		●							
7	171.038	0735 470 155	1699987	Needle D.5x11,80	200		●							
8	198.736	1308 232 007	1699984	Planetary Gear Set	1		●							
9	123.218	1308 332 026	1699995	Crown Gear 75 T	1		●							
10	130.689	0635 338 090	1699991	Ball Bearing D.65x85x10	1		●							
11	150.165	1308 332 034	1699990	Carrier Hub 75 T	1		●							
12		0730 505 149		Locking Wire	1		●							
13	198.734	1308 233 003	1699998	Synchronizer Cone	1		●							
14	119.118	1268 304 445		Synchronizer Ring	2 Old Type		●							
14	119.142	1268 304 594	3121716	Synchronizer Ring	2 New Type		●							
15	157.704	1308 332 036	1699999	Synchronizer Hub	1		●							
16	154.172	1308 332 015	3094000	Sliding Sleeve	1		●							
17	160.242	1297 304 437	3094062	Pressure Spring	3		●							
18	156.140	0732 040 409	266459	Spring D.6,5x23,5	3		●							
19	109.394	1308 232 010	3099417	Synchronizer Cone	1		●							
19	198.735	1308 232 006	3094002	Synchronizer Cone	1 (*)		●							
20		0735 330 597	3094018	Roller Bearing D.65x120x23	1		●							
20A		0750 111 334	3121584	Oil Seal D.80x100x10	1		●							
21		1308 338 013	3096914	Output Flange	1 D.150-4H.		●							
21		1308 338 026	3127601	Output Flange	1 D.175-8H.		●							
21		1308 338 017		Output Flange	1 (*)		●							
22		1308 306 081	1699954	Fork	1		●							
23		1308 306 037	1699947	Fork	1		●							
24		1308 306 067	3094486	Fork	1		●							
25	141.163	1297 306 120	3094007	Slide	2		●							
26		1308 334 001	3094006	Fork	1		●							
27	139.752	0501 316 333	3099419	Oil Seal 22x36x14,5	1		●							
28		0734 309 377	3099420	Piston	1		●							
29		1308 334 011	3099421	Cylinder	1		●							
30	298.025	1308 298 009		Oil Seal Kit	1		●							
31	198.944	1308 298 001		Gasket Kit	1		●							

Notes

(*) Old Version To be coupled together with items with note (1). DO NO MIX

Date

07 / 2006

Table

0260 / B

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Suitable to : **Evobus & Kass-Setra**

Gearboxes Index

EcoLite

Bus Applications

S6-85

6S-1600

EcoMid

Bus Applications

6S150C

8S180

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**SETRA
INDEX**

suitable to :

Z.F.

EcoLite

S6-85

Application

	S6-85	6S-1600				
	(1310)	(1310)				
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

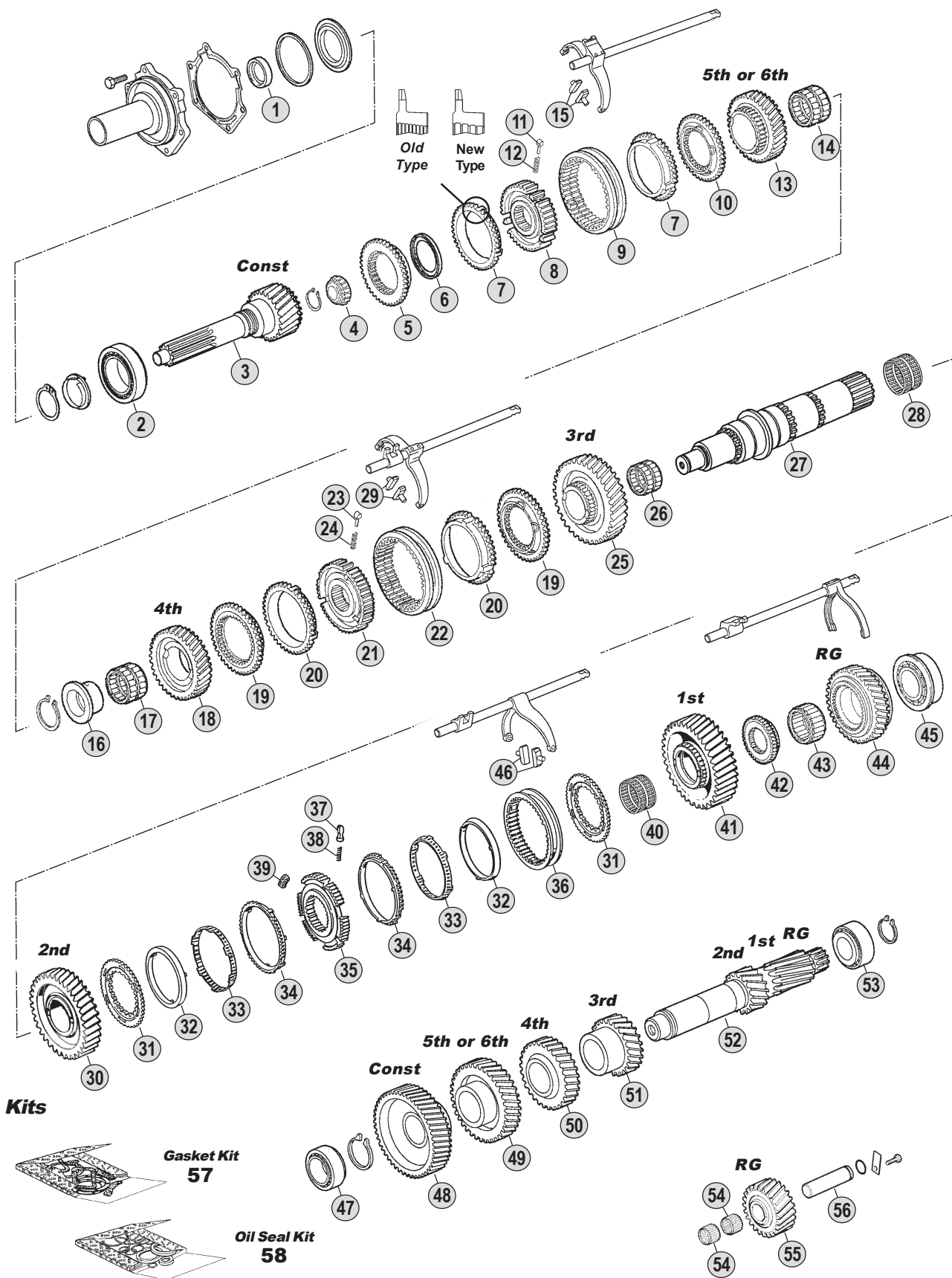
Ratio	Note
6,75-0,83	A
7,72-1,00	B

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ECOLITE
S6-85

Suitable To : **ZF**

S6-85



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Ratios

S6-85 A : 6,75 - 0,83 B : 7,72 - 1,00

S6-85 (1310)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	SETRA no.					S6-85 (1310)				
1	139.753	0750 111 149	4753402000	Oil Seal D.48x65x10	1		●					
2	130.704	0750 117 347	8919913454	Bearing D.70x115x29	1		●					
3	102.387	1310 302 001		Input Shaft	1		A ●					
3	102.388	1310 302 025		Input Shaft	1		A ●					
3	102.389	1310 302 032		Input Shaft	1		A ●					
3	102.390	1310 302 026		Input Shaft	1		B ●					
3	102.391	1310 302 022		Input Shaft	1		B ●					
3	102.392	1310 302 021	8919917368	Input Shaft	1		B ●					
3	102.393	1310 302 033		Input Shaft	1		B ●					
4		0750 117 562		Bearing D.28x32	1		●					
5	109.400	1310 302 023		Synchronizer Cone	1		A ●					
5	109.401	1310 302 024	8919917326	Synchronizer Cone	1		B ●					
6	269.011	0501 313 171		Oil Seal	1		●					
7	119.219	1311 304 076	8919913270	Synchronizer Ring	2	Old Type	●					
7	119.220	1311 304 255		Synchronizer Ring	2	New Type	●					
8	157.706	1311 304 226		Synchronizer Hub	1		●					
9	154.363	1304 304 664	89199275564	Sliding Sleeve	1		●					
10	109.402	1311 304 009	8919913269	Synchronizer Cone	1		●					
11	160.189	1297 304 436	8919909385	Pressure Piece	3		●					
12	156.140	0732 040 409	89199100654	Spring D.6,5x23,5	3		●					
13	145.886	1310 304 091		Gear 6th Speed 23 T	1		A ●					
13	145.887	1310 304 092	8919917336	Gear 5th Speed 26 T	1		B ●					
14	137.269	0735 321 543	8919917353	Needle Cage D.52x60x23	1		●					
15	141.194	1290 306 066	8919913673	Bronze Slide	2		●					
16	117.384	1311 304 124	8919917334	Bush	1		●					
17	137.078	0735 320 493	8919912337	Needle Bearing D.70x78x36,50	1		●					
18	145.888	1310 304 088		Gear 4th Speed 29 T	1		A ●					
18	145.889	1310 304 093		Gear 4th Speed 30 T	1		B ●					
19	109.134	1312 304 027		Synchronizer Cone	2		●					
20	119.119	1297 304 402		Synchronizer Ring	2	Old Type	●					
20	119.167	1297 304 484		Synchronizer Ring	2	New Type	●					
21	157.707	1310 304 080	8919917338	Synchronizer Hub	1		●					
22	154.135	1310 304 202		Sliding Sleeve	1		●					
23	160.189	1297 304 436	8919909385	Pressure Piece	3		●					
24	156.140	0732 040 409	89199100654	Spring D.6,5x23,5	3		●					
25	145.890	1310 304 085		Gear 3rd Speed 35 T	1		A ●					
25	145.891	1310 304 124	8919917340	Gear 3rd Speed 37 T	1		B ●					
26	137.270	0735 321 106	8919917355	Needle Cage D.80x88x48	1		●					
27	103.195	1311 304 248		Main Shaft	1		●					
28	137.270	0735 321 106	8919917355	Needle Cage D.80x88x48	1		●					
29	141.194	1290 306 066	8919913673	Bronze Slide	2		●					
30	145.892	1310 304 012	8919917341	Gear 2nd Speed 43 T	1		●					
31	109.176	1312 304 106		Synchronizer Cone	2		●					
32	119.152	1268 304 424	8919917361	Intermediate Ring	2		●					
33	119.153	1268 304 494		Intermediate Cone	2		●					

Notes

Date

07 / 2006

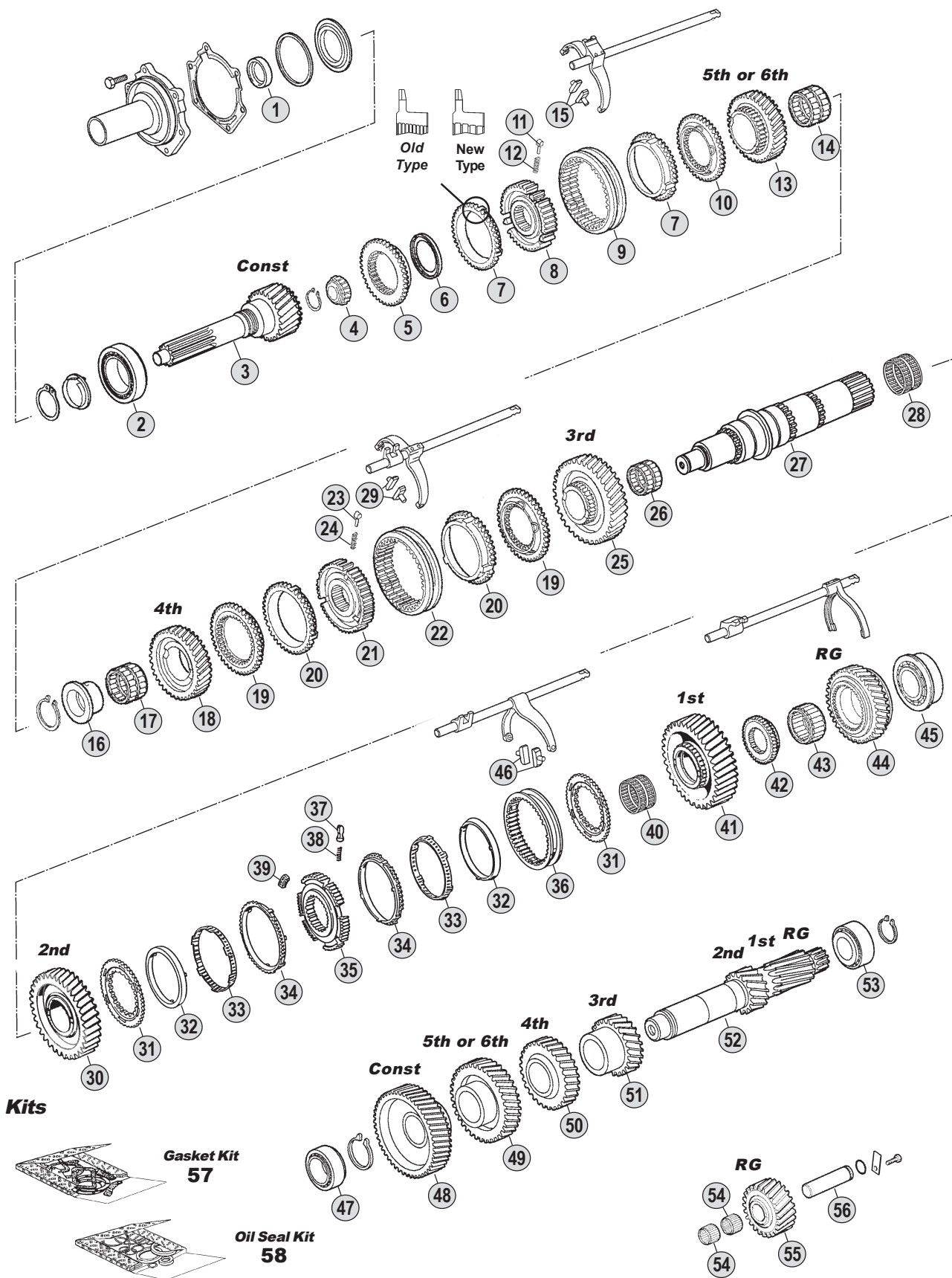
Table

0270

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Suitable To : **ZF**

S6-85



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Ratios

S6-85 A : 6,75 - 0,83 B : 7,72 - 1,00

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	SETRA no.										
34	119.144	1268 304 525		Synchronizer Ring	2			●					
35	157.708	1310 304 157		Synchronizer Hub	1			●					
36	154.190	1310 304 175		Sliding Sleeve	1			●					
37	160.189	1297 304 436	8919909385	Pressure Piece	3			●					
38	156.140	0732 040 409	89199100654	Spring D.6,5x23,5	3			●					
39	156.176	1312 304 159	8919917359	Pad	3			●					
40	137.271	0735 321 108	8919917356	Needle Cage D.75x83x50	1			●					
41	145.893	1310 304 011	8919917366	Gear 1st Speed 50 T	1			●					
42	157.709	1311 304 250		Synchronizer Hub	1			●					
43	137.272	0735 298 255		Needle Cage D.70x86x42,5	1			●					
44	147.238	1310 304 200		Reverse Gear	1			●					
45	130.705	0735 370 730	8919917358	Bearing D.60x120x29,7	1			●					
46	141.194	1290 306 066	8919913673	Bronze Slide	2			●					
47	130.234	0750 117 083	8321999825	Bearing D.50,8x95,2x27,7	1			●					
48	146.600	1310 303 032		Constant Gear 47 T	1		A	●					
48	146.605	1310 303 044		Constant Gear 50 T	1		B	●					
49	146.609	1310 303 033		Gear 6th Speed 45 T	1		A	●					
49	146.610	1310 303 045		Gear 5th Speed 37 T	1		B	●					
50	146.611	1310 303 051		Gear 4th Speed 32 T	1		A	●					
50	146.612	1310 303 050		Gear 4th Speed 29 T	1		B	●					
51	146.613	1310 303 031		Gear 3rd Speed 24 T	1		A	●					
51	146.614	1310 303 052		Gear 3rd Speed 24 T	1		B	●					
52	105.191	1310 303 076		Countershaft	1			●					
53	130.233	1246 203 008	8321999824	Roller Bearing D.44,45x95,25x28	1			●					
54	137.273	0750 115 233		Needle Cage D.30x38x30	2			●					
55	147.239	1310 305 003		Reverse Gear 21 T	1			●					
56	107.201	1310 305 001		Reverse Pin	1			●					
57	298.039	1310 298 002	8919913272	Gasket Kit	1			●					
58	298.040	1310 298 003	8919913273	Oil Seals Kit	1			●					

Notes

Date

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Table

0270

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suitable to :

Z.F.

EcoLite

6S-1600

Application

	6S-85	6S-1600				
	(1310)	(1310)				
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

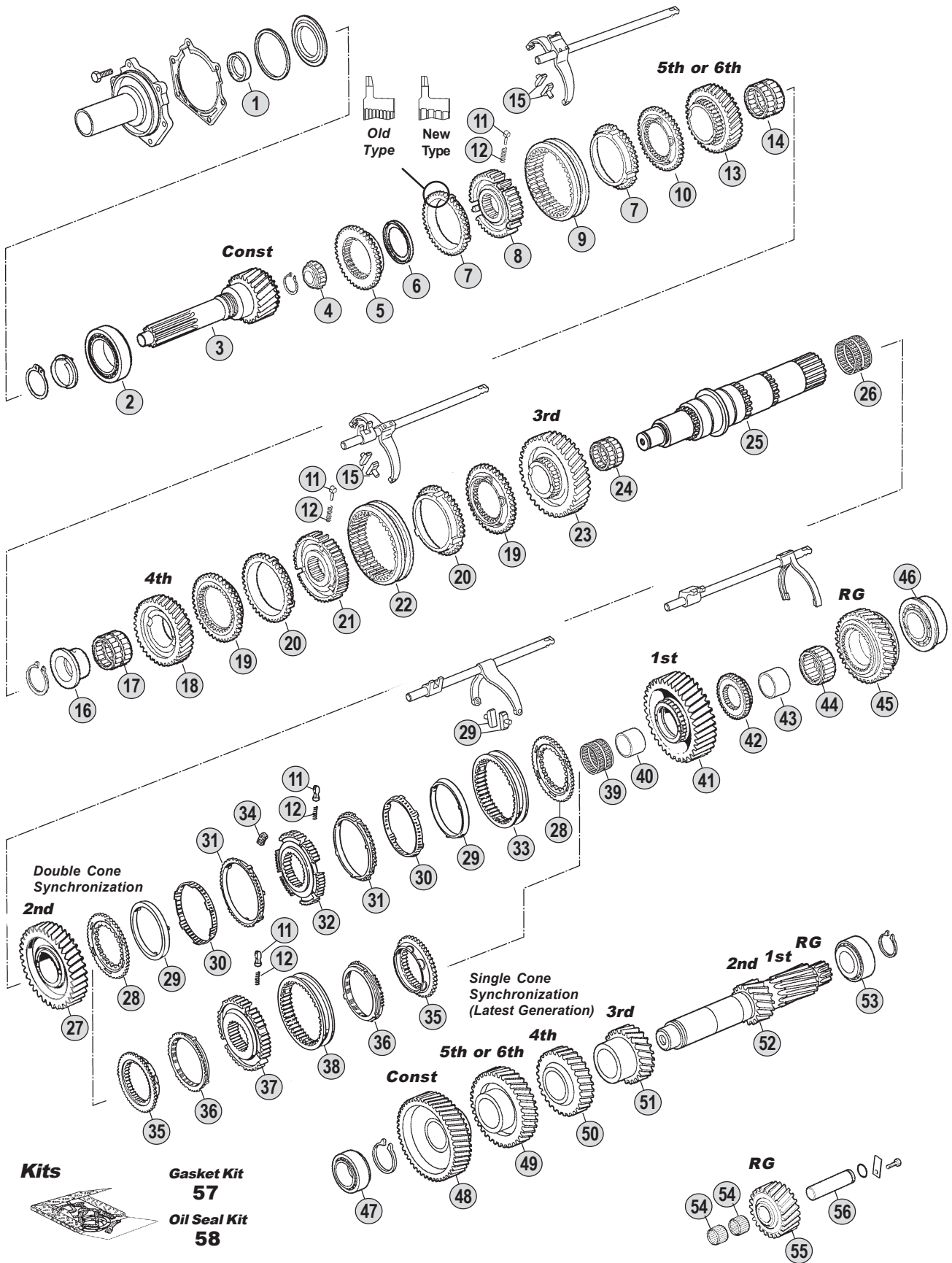
Ratio	Note
6,32-0,81	A
7,72-1,00	B

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ECOLITE
6S-1600

Suitable To : **ZF**

6S-1600



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Ratios

S6-1600 A : 6,32 - 0,81 B : 7,72 - 1,00

6S-1600 (1310)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.					SETRA no.				
1	139.754	0734 310 386	89130600244	Oil Seal D.55x75x8	1		●				
2	130.706	0750 117 518	8913000473	Roller Bearing D.71,4x120x32,5	1		●				
3	102.394	1310 302 094		Input Shaft 31 T	1		A	●			
3	102.395	1310 302 097		Input Shaft 31 T	1		A	●			
3	102.396	1310 302 089		Input Shaft 31 T	1		A	●			
3	102.397	1310 302 088		Input Shaft 27 T	1		B	●			
3	102.398	1310 302 090		Input Shaft 27 T	1		B	●			
3	102.399	1310 302 096		Input Shaft 27 T	1		B	●			
3	102.400	1310 302 092		Input Shaft 27 T	1		B	●			
3	102.401	1310 302 082		Input Shaft 27 T	1		B	●			
4	137.150	0750 117 232	8919909390	Roller Cage D.42x81x40,30	1		●				
5	109.403	1310 302 045		Synchronizer Cone	1		●				
6		0501 315 236		Ring	1		●				
7	119.118	1268 304 445		Synchronizer Ring	2	Old Type	●				
7	119.142	1268 304 594		Synchronizer Ring	2	New Type	●				
8	157.710	1310 304 158		Mozzo sincronizzatore	1		●				
9	154.371	1310 304 195		Sliding Sleeve	1		●				
10	109.404	1310 304 161		Synchronizer Cone	1		●				
11	160.189	1297 304 436	8919909385	Pressure Piece	3		●				
12	156.140	0732 040 409	89199100654	Spring D.6,5x23,5	3		●				
13	145.894	1310 304 138		Gear 6th Speed 23 T	1		A	●			
13	145.895	1310 304 137		Gear 5th Speed 27 T	1		B	●			
14	137.274	0735 321 396		Needle Cage D.65x73x48	1		●				
15	141.194	1290 306 066	8919913673	Bronze Slide	2		●				
16		0730 162 753		Bush	1		●				
17	137.275	0735 321 392		Needle Cage D.85x93x44	1		●				
18	145.896	1310 304 178		Gear 4th Speed 28 T	1		A	●			
18	145.897	1310 304 177		Gear 4th Speed 28 T	1		B	●			
19	109.134	1312 304 027		Synchronizer Cone	2		●				
20	119.119	1297 304 402		Synchronizer Ring	2	Old Type	●				
20	119.167	1297 304 484		Synchronizer Ring	2	New Type	●				
21	157.180	1312 304 052		Synchronizer Hub	1		●				
22	154.135	1310 304 202		Sliding Sleeve	1		●				
23	145.898	1310 304 186		Gear 3rd Speed 34 T	1		A	●			
23	145.899	1310 304 185		Gear 3rd Speed	1		B	●			
24	137.276	0735 321 432		Needle Cage D.92x100x49,5	1		●				
25	103.196	1310 304 189		Main Shaft	1		●				
26	137.276	0735 321 432		Needle Cage D.92x100x49,5	1		●				
27	145.900	1310 304 196		Gear 2nd Speed 43 T	1		●				
28	109.176	1312 304 106		Synchronizer Cone	2		●				
29	119.152	1268 304 424	8919917361	Intermediate Ring	2		●				
30	119.153	1268 304 494		Intermediate Cone	2		●				
31	119.144	1268 304 525		Synchronizer Ring	2		●				
32	157.181	1312 304 158		Synchronizer Hub	1		●				
33	154.190	1310 304 175		Sliding Sleeve	1		●				

Notes

(*) Latest Models only. Do NO MIX Single Cone Synchron. with Double Cone Synchron.

Date

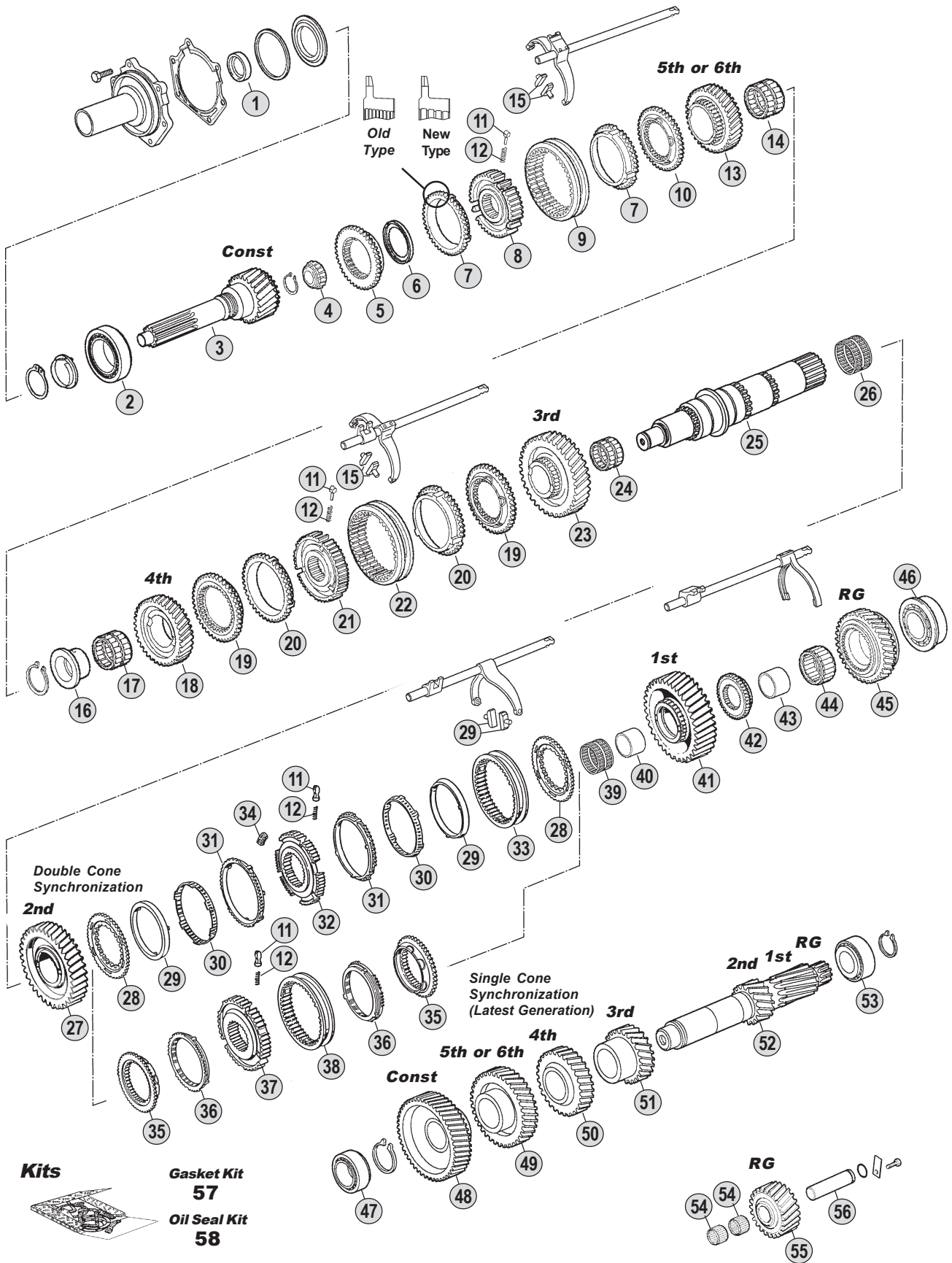
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Table

0280

Suitable To : **ZF**

6S-1600



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Ratios

S6-1600 A : 6,32 - 0,81 B : 7,72 - 1,00

6S-1600 (1310)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.									
34	156.176	1312 304 159	8919917359	Pad	3		●				
35	109.132	1313 304 009		Synchronizer Cone	2	(*)	●				
36	119.122	1297 304 401		Synchronizer Ring	2	Old Type (*)	●				
36	119.166	1297 304 485		Synchronizer Ring	2	New Type (*)	●				
37	157.189	1313 304 008		Synchronizer Hub	1	(*)	●				
38	154.202	1316 304 078		Sliding Sleeve	1	(*)	●				
39	137.276	0735 321 432		Needle Cage D.92x100x49,5	1		●				
40		0735 295 148		Bush	1		●				
41	145.901	1310 304 182		Gear 1st Speed 50 T	1		●				
42	157.711	1310 304 188		Hub	1		●				
43		0750 119 131		Bush	1		●				
44	137.277	0735 321 394		Needle Cage D.82x90x47	1		●				
45	147.240	1310 304 201		Reverse Gear	1		●				
46	130.706	0750 117 518	8913000473	Roller Bearing D.71,4x120x32,5	1		●				
47	130.234	0750 117 083	8321999825	Bearing D.50,8x95,2x27,7	1		●				
48	146.615	1310 303 069		Constant Gear 47 T	1	A	●				
48	146.616	1310 303 068		Constant Gear 50 T	1	B	●				
49	146.617	1310 303 059		Gear 6th Speed 43 T	1	A	●				
49	146.618	1310 303 074		Gear 5th Speed 39 T	1	B	●				
50	146.619	1310 303 062		Gear 4th Speed 32 T	1	A	●				
50	146.620	1310 303 075		Gear 4th Speed 29 T	1	B	●				
51	146.621	1310 303 072		Gear 3rd Speed	1	A	●				
51	146.622	1310 303 073		Gear 3rd Speed	1	B	●				
52	105.192	1310 303 053		Countershaft	1		●				
53	130.233	1246 203 008	8321999824	Roller Bearing D.44,45x95,25x28	1		●				
54	137.273	0750 115 233		Needle Cage D.30x38x30	2		●				
55	147.241	1310 305 011		Reverse Gear	1		●				
56	107.201	1310 305 001		Reverse Pin	1		●				
57	298.041	1310 298 018	8913003188	Gasket Kit	1		●				
58	298.042	1310 298 020		Oil Seals Kit	1		●				

Notes

(*) Latest Models only. Do NO MIX Single Cone Synchron. with Double Cone Synchron.

Date

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Table

0280

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suitable to :

Z.F.

EcoMid

6S150C

Application

	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

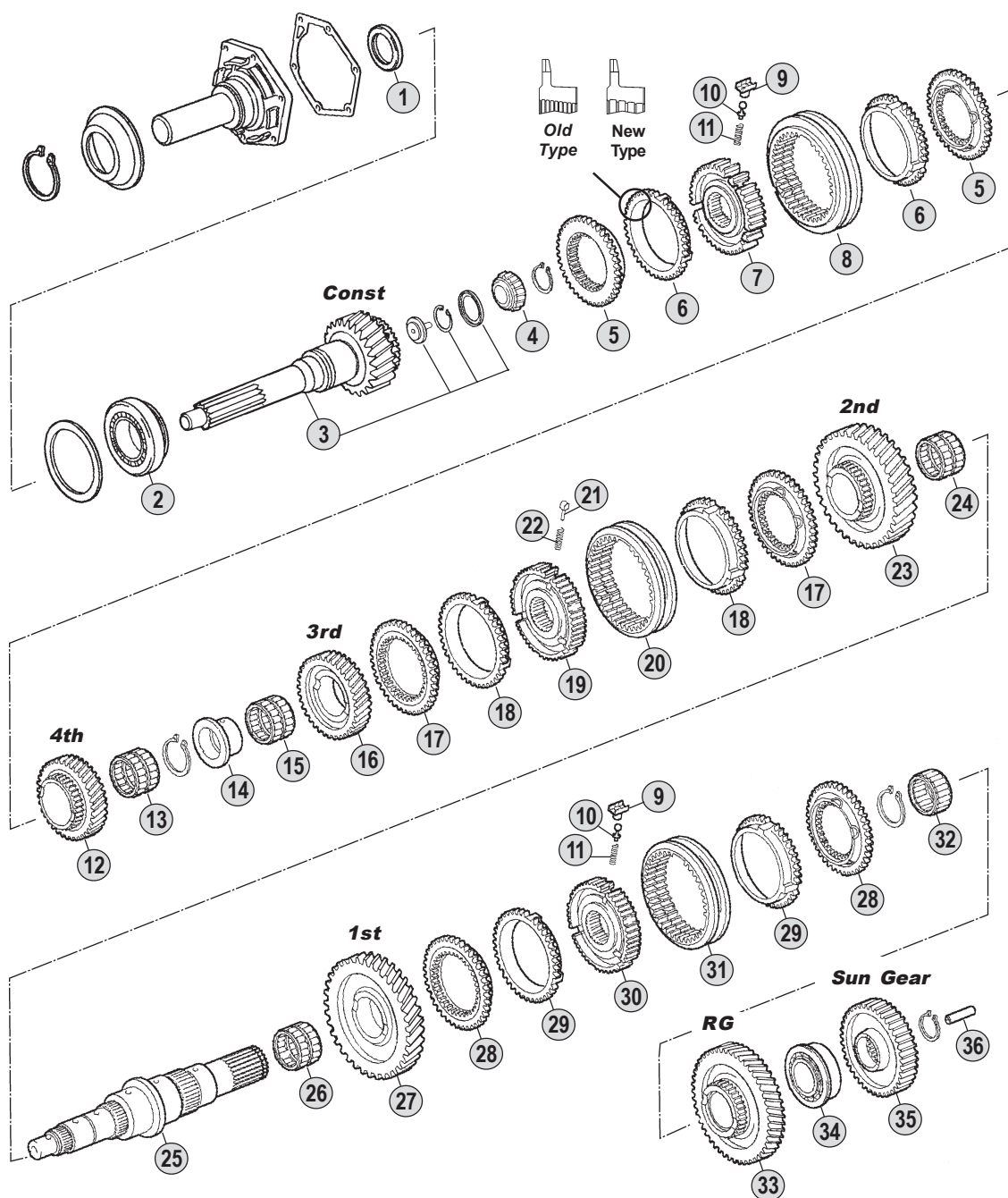
Ratio	Note
7,02-0,81	A
8,07-1,00	B
8,65-1,00	C
8,66-1,00	D

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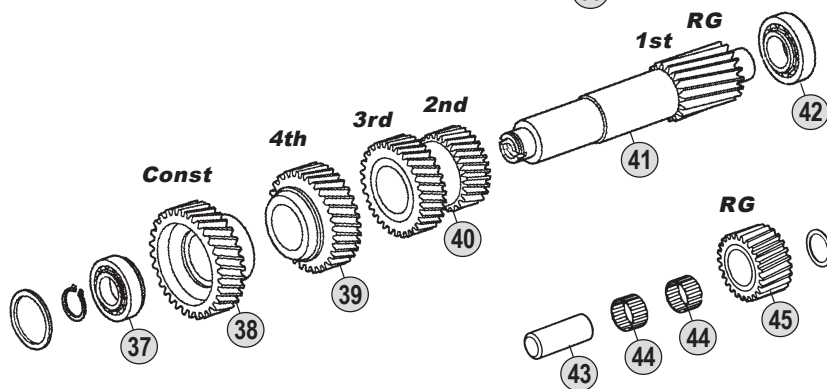
ECOMID
6S150C

Suitable To : **ZF**

6S150C



Kits



Ratios

6S150C A : 7,02 - 0,81 B : 8,07 - 1,00 C : 8,65 - 1,00 D : 8,66 - 1,00

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Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					SETRA no.					
1		0734 310 230	4753404000	Oil seal D.55x72x10	1	(1)	●					
1	139.753	0750 111 149	4753402000	Oil Seal D.48x65x10	1	(2)	●					
2		0735 370 462	8919905008	Roller bearing D.73x117,4x30,1	1	(1)	●					
2	130.313	0750 117 079	8919902818	Bearing D.66,6x117,4x30,1	1	(2)	●					
3		1304 202 186		Input shaft 28 T	1	(1)	A	●				
3		1304 202 188		Input shaft 28 T	1	(2)	A	●				
3	102.345	1304 202 190		Input Shaft 28 T	1	(2)	A	●				
3	102.344	1304 202 193		Input Shaft	1	(2)	B	●				
3		1304 202 182	8919913992	Input shaft 25 T	1	(1)	CD	●				
3		1304 202 247	89199265484	Input shaft 25 T	1	(1)	CD	●				
3		1304 202 184		Input shaft 25 T	1	(2)	CD	●				
3	102.346	1304 202 185	8919920887	Input Shaft 25 T	1	(2)	CD	●				
4	130.683	0735 371 748	89199265514	Needle Bearing D.32x29,5	1		●					
5	109.391	1304 304 660	8919922954	Synchronizer Cone	2		●					
6	119.150	1304 304 014		Synchronizer Ring	2	Old Type	●					
6	119.169	1304 304 683		Synchronizer Ring	2	New Type	●					
7	157.697	1304 304 051	8919915641	Synchronizer Hub	1		●					
8	154.361	6002 305 515	8919915188	Sliding Sleeve	1		●					
9	188.096	1238 304 394	89199100664	Pressure Piece	3		●					
10	160.143	1249 304 222	8919918048	Plunger	3		●					
11	156.140	0732 040 409	89199100654	Spring D.6,5x23,5	3		●					
12	145.821	1304 304 479		Gear 4th Speed 25 T	1		A	●				
12	145.819	1304 304 480		Gear 4th Speed	1		B	●				
12	145.822	1304 304 478	8919915176	Gear 4th Speed 28 T	1		CD	●				
13	137.258	0735 321 011	8919910968	Needle Cage 60x68x23	1		●					
14	117.377	1304 304 050	8919912436	Bush	1		●					
15	137.074	0750 115 227	8919910967	Needle Bearing D.75x83x40	1		●					
16	145.820	1304 304 461	89199100774	Gear 3rd Speed 31 T	1		ACD	●				
16	145.818	1304 304 463		Gear 3rd Speed 29 T	1		B	●				
17	109.171	1304 304 408	89199100744	Synchronizer Cone	2		●					
18	119.151	1304 304 542	89199100754	Synchronizer Ring	2	Old Type	●					
18	119.170	1304 304 681	89199296034	Synchronizer Ring	2	New Type	●					
19	157.696	1304 304 591	8913080024	Synchronizer Hub	1		●					
20	154.200	1304 304 597	8919916529	Sliding Sleeve 1st-2nd Speed	1		●					
21	160.189	1297 304 436	8919909385	Pressure Piece	3		●					
22	156.140	0732 040 409	89199100654	Spring D.6,5x23,5	3		●					
23	147.222	1304 304 486	89199294394	Gear 2nd Speed	1		AC	●				
23	147.220	1304 304 464		Gear 2nd Speed 33 T	1		B	●				
23	147.224	1304 304 462		Gear 2nd Speed 34 T	1		D	●				
24	137.142	0735 320 816	8919912960	Needle Cage D.75x83x23	1		●					
25	103.190	1304 304 449	8919911659	Main Shaft	1		●					
26	137.257	0735 320 500	8919910969	Needle Cage D.75x83x35	1		●					
27	145.817	1304 304 430		Gear 1st Speed 37 T	1		●					
28	109.390	1304 304 445	8919910338	Synchronizer Cone	2		●					
29	119.072	1238 304 420	8919910300	Synchronizer Ring	2	Old Type	●					

Notes

- (1) To be coupled together. **DO NO MIX**
(2) To be coupled together. **DO NO MIX**

Date

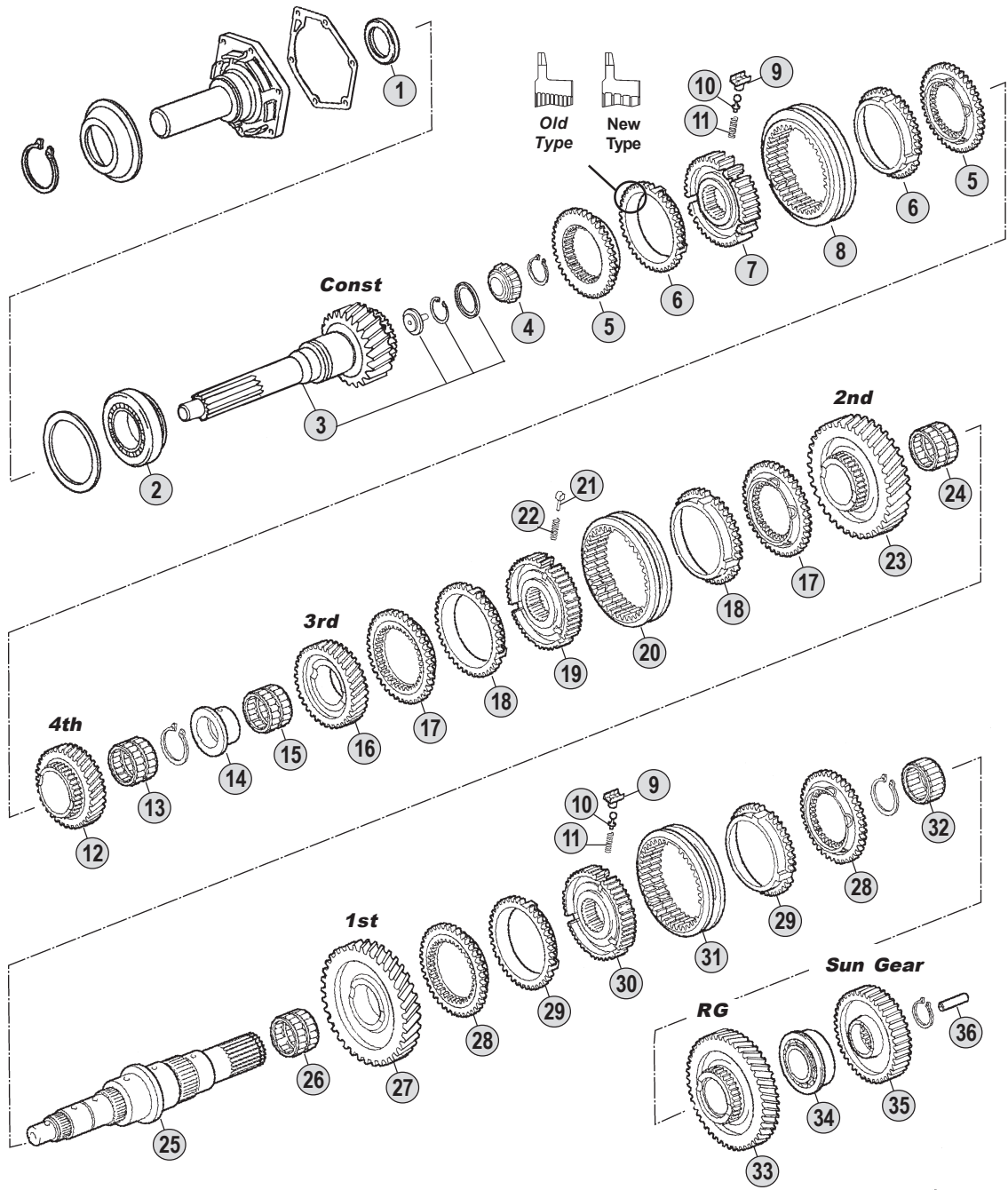
07 / 2006

Table

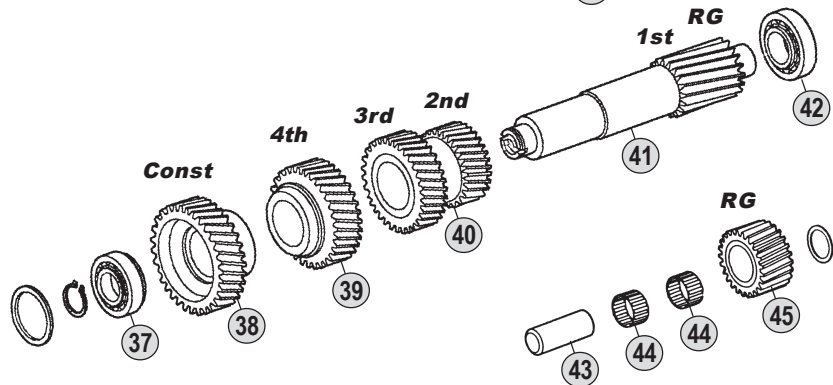
0290 / A

Suitable To : **ZF**

6S150C



Kits



Ratios

6S150C A : 7,02 - 0,81 B : 8,07 - 1,00 C : 8,65 - 1,00 D : 8,66 - 1,00

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	SETRA no.					6S150C (13004)			
29	119.138	1290 304 473		Synchronizer Ring	2	New Type	●				
30	157.694	1304 304 655	89199270334	Synchronizer Hub	1		●				
31	154.360	1304 304 394	8919912330	Sliding Sleeve	1		●				
32	137.147	0750 115 225	8919910970	Needle Cage D.60x68x39	1		●				
33	147.219	1304 304 446		Reverse Gear 32 T	1		●				
34	130.315	0735 371 605		Bearing D.50,8x104,7x30,1	1		●				
35	157.695	1304 304 452	8919910310	Sun Gear 79 T	1		●				
36	188.209	1312 304 150	8919920890	Oil Tube	1		●				
37	130.314	0735 371 749	89199265504	Bearing D.40x80x32	1		●				
38	146.582	1304 303 218		Constant Gear 30 T	1		●	A			
38	146.581	1304 303 219		Constant Gear	1		●	B			
38	146.583	1304 303 217	8919907482	Constant Gear 33 T	1		●	CD			
39	147.223	1304 303 224		Gear 4th Speed 33 T	1		●	A			
39	147.221	1304 303 225		Gear 4th Speed	1		●	B			
39	147.225	1304 303 223	8919913995	Gear 4th Speed 30 T	1		●	CD			
40	143.117	1304 303 230	8919913830	Double Gear 3rd/2nd Speed	1		●	AC			
40	143.116	1304 303 207		Double Gear 3rd/2nd Speed	1		●	B			
40	143.118	1304 303 206	8919914216	Double Gear 3rd/2nd Speed	1		●	D			
41	105.183	1304 303 119		Countershaft 14 T	1		●				
42	130.234	0750 117 083	8321999825	Bearing D.50,8x95,2x27,7	1		●				
43	107.156	1304 305 030		Reverse Shaft	1		●				
44	137.143	0735 358 192		Needle Cage D.40x60x26	2		●				
45		1304 305 024		Reverse Gear 22 T	1		●				
46	298.026	1304 298 908		Oil Seal Kit	1		●				
47	198.945	1304 298 914		Gasket Kit	1		●				

Notes

- (1) To be coupled together. **DO NO MIX**
 (2) To be coupled together. **DO NO MIX**

Date

07 / 2006

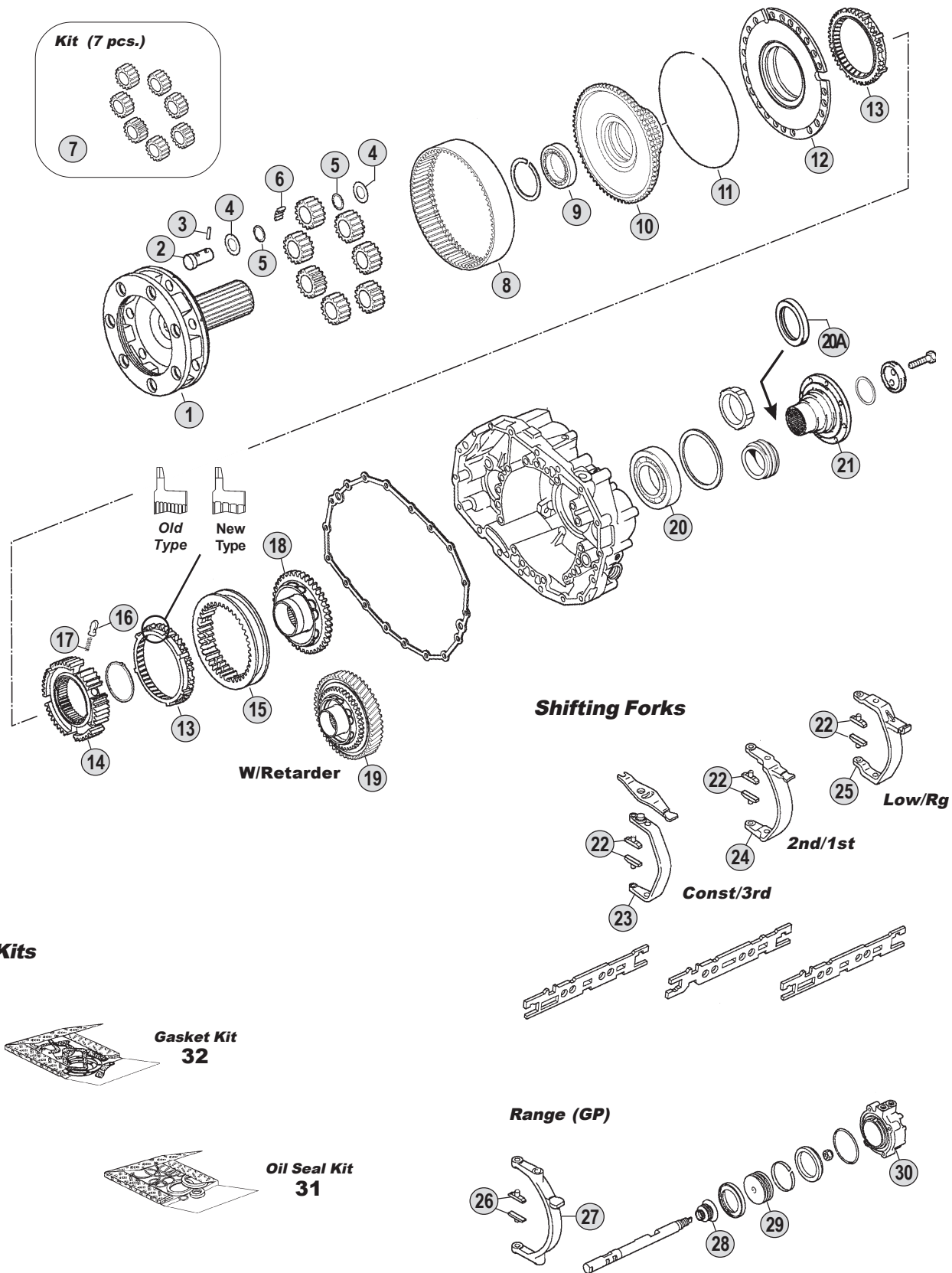
Table

0290 / A

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Suitable To : **ZF**

6S150C



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Ratios

6S150C A : 7,02 - 0,81 B : 8,07 - 1,00 C : 8,65 - 1,00 D : 8,66 - 1,00

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	SETRA no.								
1	190.386	1304 232 028	89199101294	Planetary Carrier	1		●				
2	107.203	1304 332 070	89199101314	Planet Pin	7		●				
3	160.238	0631 329 127	89199101324	Lock Pin 4x16	7		●				
4	269.005	0501 309 496	8919910413	Thrust Washer	14		●				
5	269.004	0730 105 881	8919910414	Spacer Ring 1,50	14		●				
6	171.061	0735 470 016	8919909411	Needle D.4x21,8	126		●				
7	298.016	1304 232 029	8919910693	Planetary Gear Set	1		●				
8	123.264	1304 332 072	8919932521	Crown Gear 117 T	1		●				
9	130.265	0735 340 080	8919910407	Bearing D.70x90x10	1		●				
10	150.163	1304 332 071	8919925010	Carrier Hub	1		●				
11	111.175	0730 505 053	8919909414	Locking Wire 2,50	1		●				
12	198.817	1304 233 005		Synchronizer Cone	1		●				
13	119.157	1304 333 005	8919910412	Synchronizer Ring	2	Old Type	●				
13	119.171	1304 333 021		Synchronizer Ring	2	New Type	●				
14	157.205	1304 332 066		Synchronizer Hub	1		●				
15	154.210	1304 332 089		Sliding Sleeve	1		●				
16	160.116	1240 304 278	8321999524	Pressure Piece	6		●				
17	156.037	0732 040 385	8321999386	Outer Spring De.6x34	6		●				
18	109.183	1304 332 075	8919910406	Synchronizer Cone	1		●				
19	109.397	1304 313 133		Synchronizer Cone	1	with retarder	●				
20	130.690	0750 116 048	8919910733	Roller Bearing D.78x130x25	1		●				
20A		0734 319 439	47538130000	Oil seal D.95x115x10	1		●				
21		1304 338 066		Output Flange	1	D.150-4H.	●				
21		1304 338 019		Output Flange	1	D.165-8H.	●				
21		1304 338 035	8919925432	Output Flange	1	D.180-8H.	●				
21		1304 338 047		Output Flange	1	D.180-10H.	●				
21		1304 343 053		Output Flange	1	with TELMA ret.	●				
21		1304 343 060		Output Flange	1	with TELMA ret.	●				
22	141.194	1290 306 066	8919913673	Bronze Slide	2		●				
23		1304 306 010		Fork	1		●				
23		1304 306 044		Fork	1		●				
23		1304 306 096		Fork	1		●				
24		1304 306 009		Fork	1		●				
24		1304 306 043		Fork	1		●				
25		1304 306 065		Fork	1		●				
26	141.061	1272 334 003	8321999487	Bronze Slide	2		●				
27		1304 334 039		Fork	1		●				
28		0750 112 047	83219981900	Oil seal	1		●				
29		1304 334 072		Piston	1		●				
30		1304 334 061	89200221233	Cylinder	1		●				
31	298.026	1304 298 908		Oil Seal Kit	1		●				
32	198.945	1304 298 914		Gasket Kit	1		●				

Notes

Date

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Table

0290 / B

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suitable to :

Z.F.

EcoMid

8S180

Application

	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
MERCEDES						
M.A.N.						
IVECO						
R.V.I.						
DAF						
VOLVO						
KASS-SETRA						

Ratios

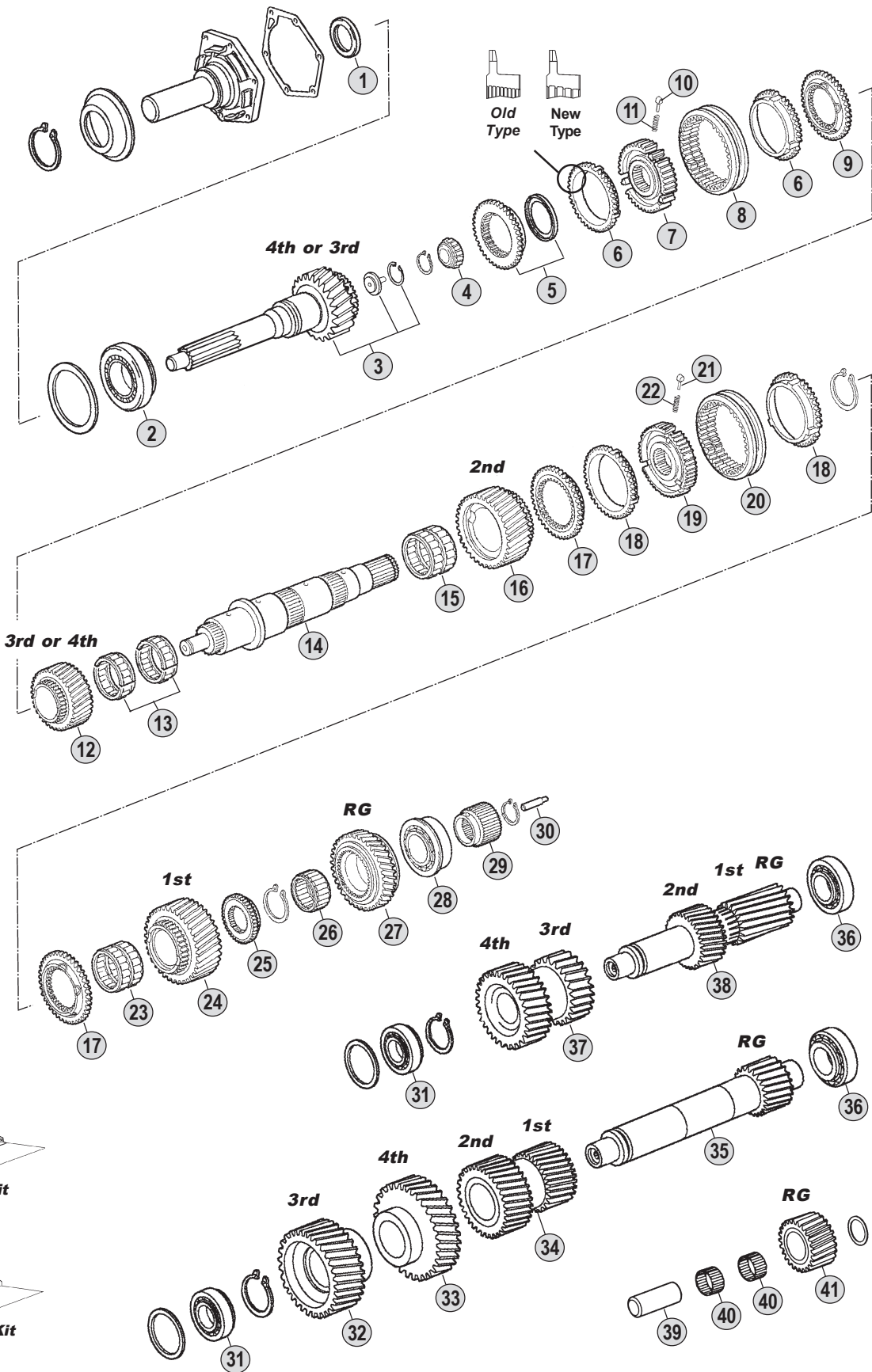
Ratio	Note
6,38-0,76	A
8,73-1,00	B

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ECOMID
8S180

Suitable To : **ZF**

8S180



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Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00

8S180 (1304)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					SETRA no.	8S180	(1304)					
1		0734 310 104		Oil Seal 52x68x8	1		●							
2	130.706	0750 117 518	8913000473	Roller Bearing D.71,4x120x32,5	1		●							
3	102.348	1304 202 206		Input Shaft 29 T	1		●							
3		1304 202 207		Input Shaft 29 T	1		●							
3	102.361	1304 202 208	8919935825	Input Shaft 29 T	1		●							
3		1304 202 210		Input Shaft 29 T	1		●							
3		1304 202 211		Input Shaft 29 T	1		●							
3	102.349	1304 202 212		Input Shaft 29 T	1		●							
4	137.150	0750 117 232	8919909390	Roller Cage D.42x81x40,30	1		●							
5	109.396	1304 202 214		Synchronizer Cone	1		●							
6	119.219	1311 304 076	8919913270	Synchronizer Ring	2	Old Type	●							
6	119.220	1311 304 255		Synchronizer Ring	2	New Type	●							
7	157.702	1304 304 651	89199275554	Synchronizer Hub	1		●							
8	154.363	1304 304 664	89199275564	Sliding Sleeve	1		●							
9	109.395	1304 302 425	8919922755	Synchronizer Cone	1		●							
10	160.189	1297 304 436	8919909385	Pressure Piece	3		●							
11	156.140	0732 040 409	89199100654	Spring D.6,5x23,5	3		●							
12	147.233	1304 304 637		Gear 4th Speed 24 T	1		A	●						
12	147.231	1304 304 636	8919922959	Gear 3rd Speed 29 T	1		B	●						
13	137.260	0750 115 430	89199235344	Needle Cage 70x78x60	1		●							
14	103.191	1304 304 604	8919923904	Main Shaft	1		●							
15	137.259	0735 320 378	8919927889	Needle Cage 70x83x55	1		●							
16	145.827	1304 304 582		Gear 2nd Speed 29 T	1		A	●						
16	145.825	1304 304 581		Gear 2nd Speed 33 T	1		B	●						
17	109.392	1311 304 015	8919909383	Synchronizer Cone	2		●							
18	119.118	1268 304 445		Synchronizer Ring	2	Old Type	●							
18	119.142	1268 304 594		Synchronizer Ring	2	New Type	●							
19	157.700	1304 304 576		Synchronizer Hub	1		●							
20	154.200	1304 304 597	8919916529	Sliding Sleeve 1st-2nd Speed	1		●							
21	160.189	1297 304 436	8919909385	Pressure Piece	3		●							
22	156.140	0732 040 409	89199100654	Spring D.6,5x23,5	3		●							
23	137.260	0750 115 430	89199235344	Needle Cage 70x78x60	1		●							
24	147.232	1304 304 587		Gear 1st Speed 33 T	1		A	●						
24	147.229	1304 304 586		Gear 1st Speed 38 T	1		B	●						
25	109.172	1304 304 007		Synchronizer Cone	1		●							
26	137.147	0750 115 225	8919910970	Needle Cage D.60x68x39	1		●							
27	147.230	1304 304 672	8919919044	Reverse Gear 35 T	1		●							
28	130.684	0735 371 599	8919919045	Roller Bearing D.50,8x104,7x36,	1		●							
29	157.701	1304 304 588	8919924297	Sun Gear	1		●							
30	188.209	1312 304 150	8919920890	Oil Tube	1		●							
31	130.685	0735 371 096	8919909382	Roller Bearing D.40x85x33	1		●							
32	146.586	1304 303 294		Gear 3rd Speed 31 T	1		A	●						
33	147.234	1304 303 293		Gear 4th Speed 34 T	1		A	●						
34	143.121	1304 303 292		Double Gear 19/23 T	1		A	●						
35	105.186	1304 303 291		Countershaft 16 T	1		A	●						

Notes

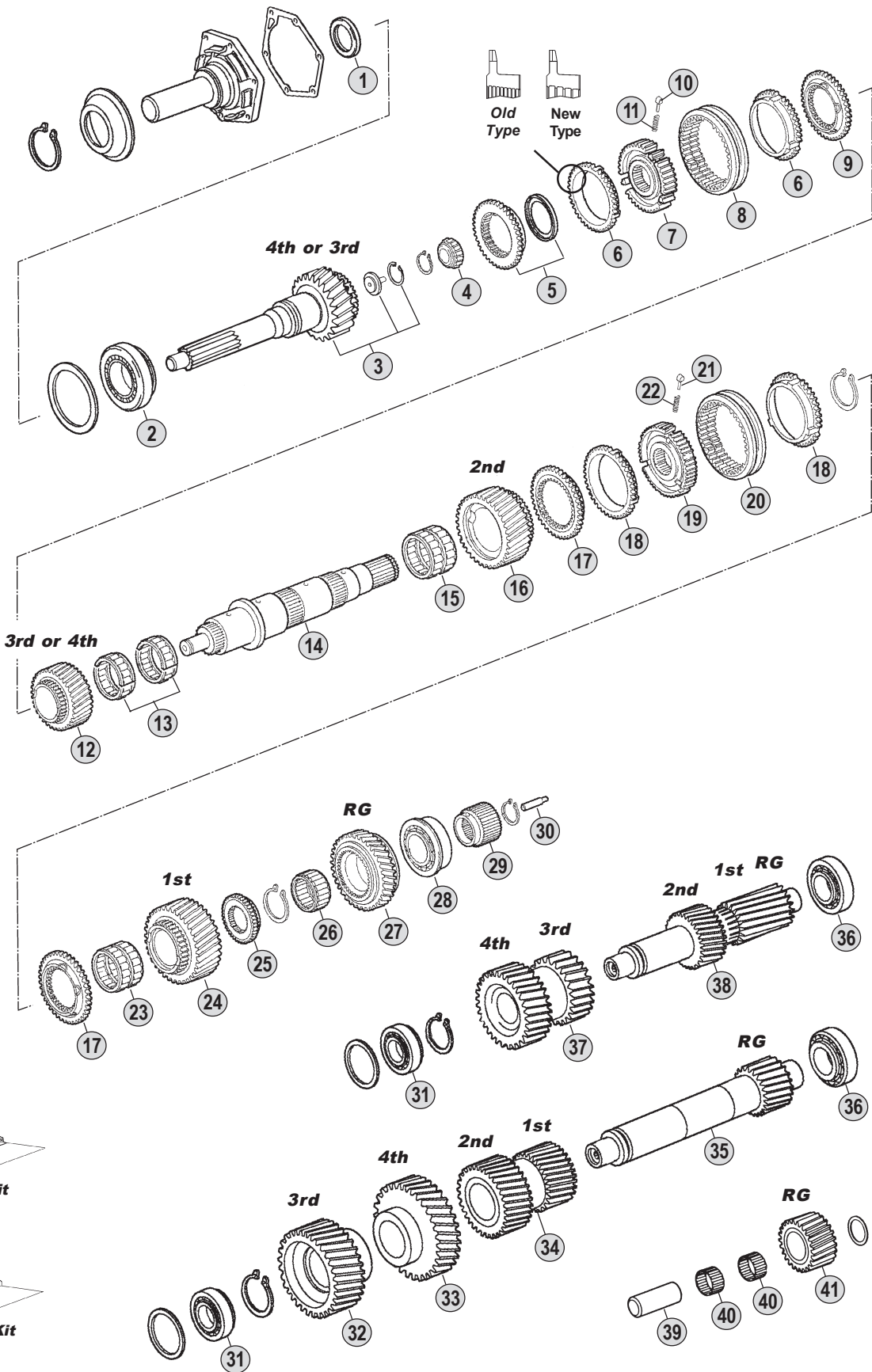
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Table

0300 / A

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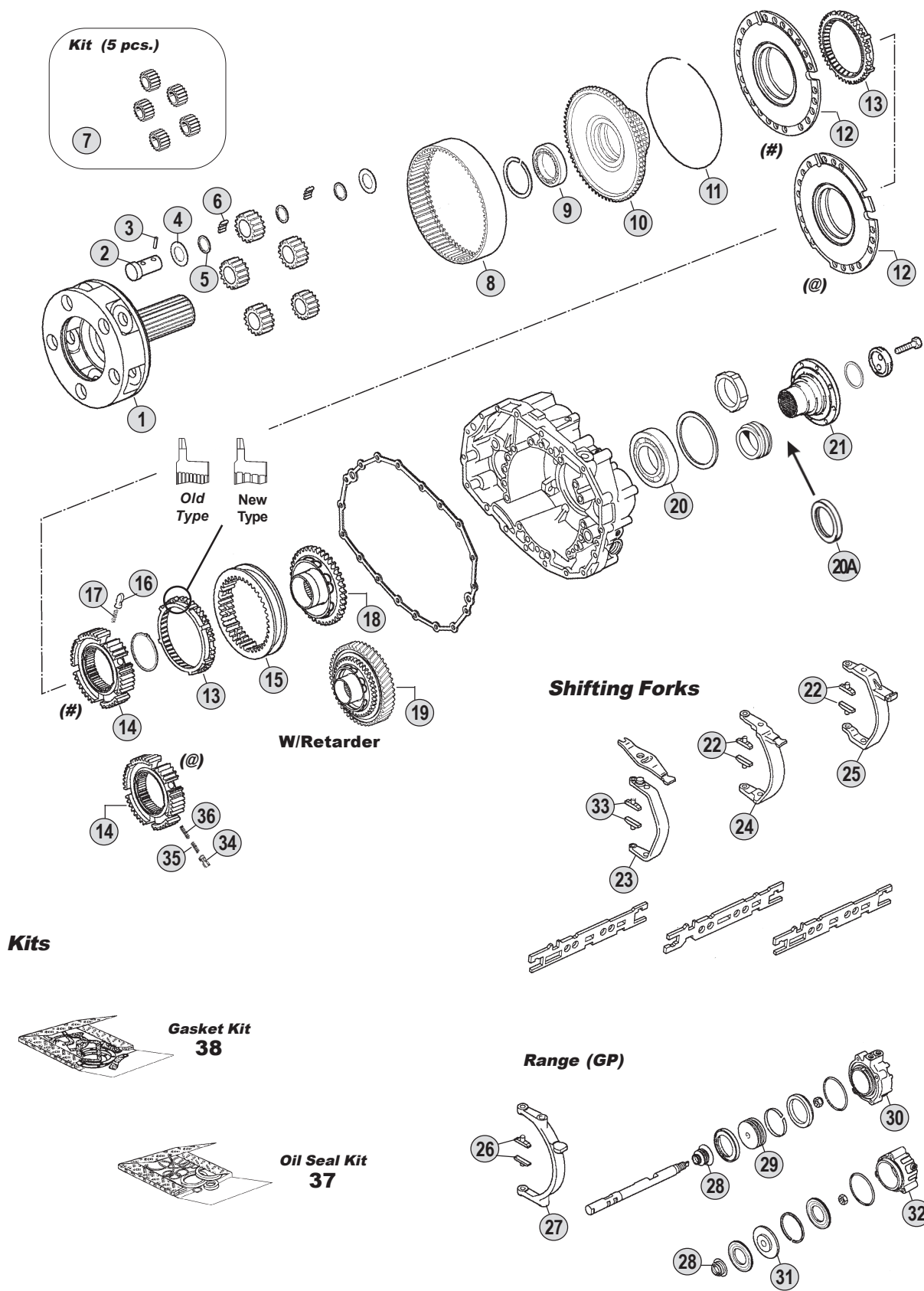
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Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00

Suitable To : **ZF**

8S180



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Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	SETRA no.					8S180	(1304)					
1	190.388	1304 232 092		Planetary Carrier	1		●							
2	107.157	1304 332 111		Planet Pin	5		●							
3	160.239	0631 329 037	8919922762	Lock Pin 4x26	5		●							
4	169.396	0501 304 692		Thrust Washer 1,50	5		●							
5	169.397	0730 103 102		Spacer Ring 1,50	15		●							
6	171.044	0735 470 115	8919922759	Roller D.5x15,30	200		●							
7	298.019	1304 232 051	8919923653	Planetary Gear Set	1		●							
8	123.265	1304 332 122		Crown Gear 117 T	1		●							
9	130.265	0735 340 080	8919910407	Bearing D.70x90x10	1		(#)	●						
9	130.310	0750 116 165		Bearing D.80x110x16	1		(@)	●						
10	150.163	1304 332 071	8919925010	Carrier Hub	1		(#)	●						
10		1304 332 210		Carrier Hub	1		(@)	●						
11	111.175	0730 505 053	8919909414	Locking Wire 2,50	1		●							
12	198.817	1304 233 005		Synchronizer Cone	1		(#)	●						
12	198.796	1304 233 006		Synchronizer Cone	1		(@)	●						
13	119.157	1304 333 005	8919910412	Synchronizer Ring	2	Old Type	(#)	●						
13	119.171	1304 333 021		Synchronizer Ring	2	New Type	(#)	●						
13	119.085	1296 333 022		Synchronizer Ring	2	Old Type	(@)	●						
13	119.172	1296 333 045		Synchronizer Ring	2	New Type	(@)	●						
14	157.205	1304 332 066		Synchronizer Hub	1		(#)	●						
14	157.182	1313 333 001		Synchronizer Hub	1		(@)	●						
15	154.210	1304 332 089		Sliding Sleeve	1		(#)	●						
15	154.201	1304 333 011		Sliding Sleeve	1		(@)	●						
16	160.116	1240 304 278	8321999524	Pressure Piece	6		(#)	●						
17	156.037	0732 040 385	8321999386	Outer Spring De.6x34	6		(#)	●						
18	109.183	1304 332 075	8919910406	Synchronizer Cone	1		(#)	●						
18	109.393	1304 233 013	89199431694	Synchronizer Cone	1		(@)	●						
19	109.397	1304 313 133		Synchronizer Cone	1	with retarder	(#)	●						
19	109.173	1304 232 085		Synchronizer Cone	1	with retarder	(@)	●						
20	130.690	0750 116 048	8919910733	Roller Bearing D.78x130x25	1		(#)	●						
20		0750 116 197		Bearing D.80x140x26	1		(@)	●						
20A		0734 319 439	47538130000	Oil Seal D.95x115x10	1		●							
21		1304 338 037		Output Flange	1	D.165-4H.	(#)	●						
21		1304 338 050		Output Flange	1	D.180-4H.	(#)	●						
21		1304 338 069	8321999985	Output Flange	1	D.180-4H.	(#)	●						
21		1304 338 035	8919925432	Output Flange	1	D.180-8H.	(#)	●						
21		1304 338 097		Output Flange	1	D.180-4H.	(@)	●						
22	141.194	1290 306 066	8919913673	Bronze Slide	2		●							
23		1304 306 103		Fork	1		A	●						
23		1304 306 102		Fork	1		B	●						
24		1304 306 009		Fork	1		●							
24		1304 306 043		Fork	1		●							
25		1304 306 011		Fork	1		●							
26	141.061	1272 334 003	8321999487	Bronze Slide	2		●							
27		1304 334 039		Fork	1		(#)	●						

Notes

- @) Different versions.To be coupled together. DO NO MIX

Date

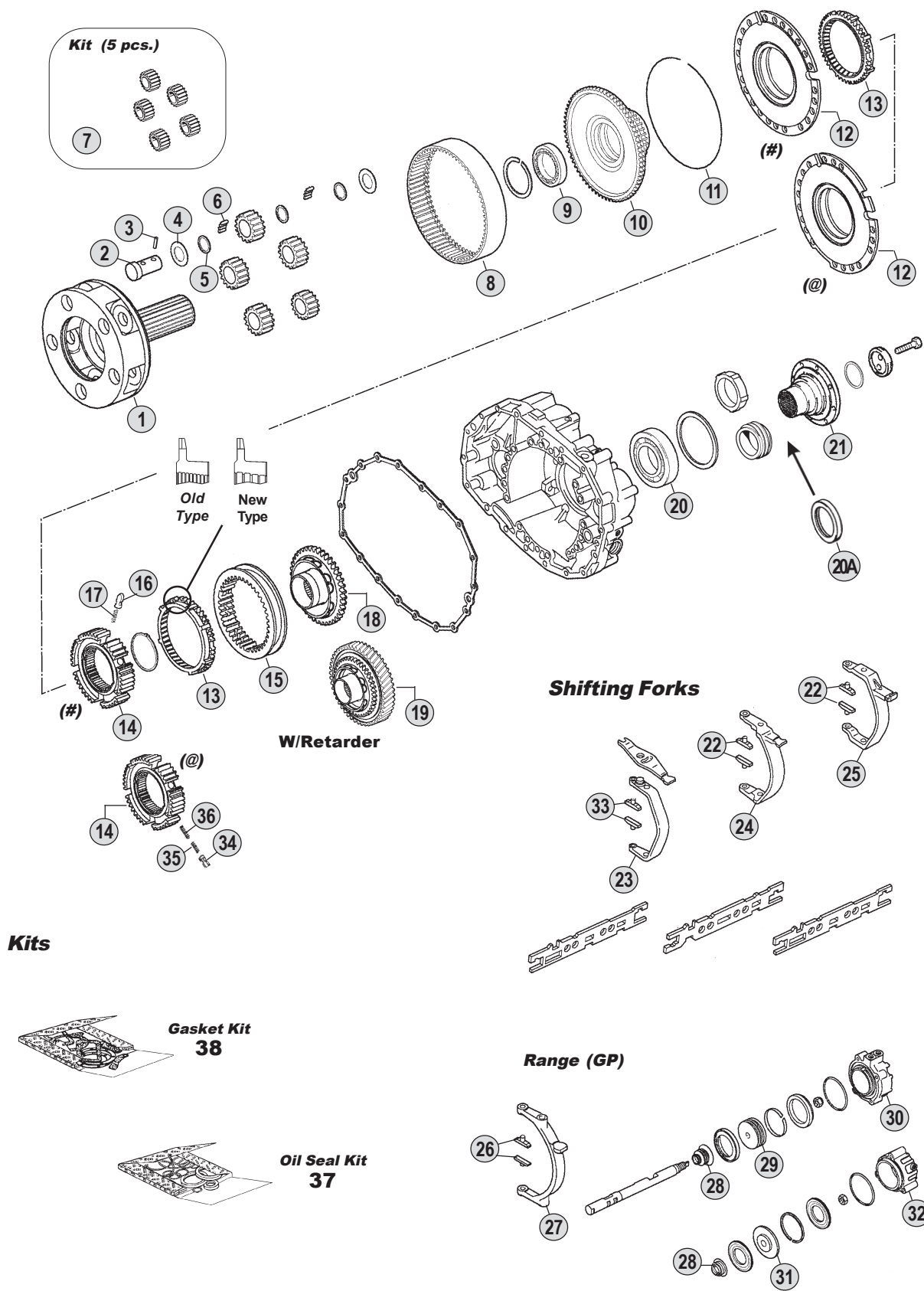
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Table

0300 / B

Suitable To : **ZF**

8S180



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Ratios

8S180 A : 6,38 - 0,76 B : 8,73 - 1,00

Ref. ZF	Ref. CEI	OEM	Tav.	Fig.	Ref. ZF	Ref. CEI	OEM	Tav.	Fig.	Ref. ZF	Ref. CEI	OEM	Tav.	Fig.
0501 304 692	169.396	MAN	0060B	4	0631 329 037	160.239	RVI	0150B	3	0730 103 102	169.397	DAF	0210B	6
0501 304 692	169.396	MAN	0070B	4	0631 329 037	160.239	RVI	0150B	10	0730 103 102	169.397	DAF	0220B	5
0501 304 692	169.396	MAN	0070B	11	0631 329 037	160.239	RVI	0160B	3	0730 103 102	169.397	DAF	0220B	12
0501 304 692	169.396	MAN	0080B	4	0631 329 037	160.239	DAF	0200B	3	0730 103 102	169.397	DAF	0230B	5
0501 304 692	169.396	IVE	0100B	4	0631 329 037	160.239	DAF	0220B	3	0730 103 102	169.397	VOL	0260B	6
0501 304 692	169.396	IVE	0110B	4	0631 329 037	160.239	DAF	0220B	10	0730 103 102	169.397	KAS	0300B	5
0501 304 692	169.396	IVE	0110B	11	0631 329 037	160.239	DAF	0230B	3	0730 105 881	269.004	MAN	0050B	5
0501 304 692	169.396	IVE	0120B	4	0631 329 037	160.239	KAS	0300B	3	0730 105 881	269.004	DAF	0190B	5
0501 304 692	169.396	RVI	0145B	4	0631 329 047	See	0631 329 049			0730 105 881	269.004	KAS	0290B	5
0501 304 692	169.396	RVI	0150B	4	0631 329 049	160.240	MB	0020B	4	0730 106 496	269.007	MB	0020A	31
0501 304 692	169.396	RVI	0150B	11	0631 329 049	160.240	DAF	0210B	4	0730 106 496	269.007	DAF	0210A	31
0501 304 692	169.396	RVI	0160B	4	0631 329 049	160.240	VOL	0260B	4	0730 106 496	269.007	VOL	0240	31
0501 304 692	169.396	DAF	0200B	4	0631 329 127	160.238	MAN	0050B	3	0730 106 496	269.007	VOL	0260A	31
0501 304 692	169.396	DAF	0220B	4	0631 329 127	160.238	DAF	0190B	3	0730 108 172	269.008	MB	0020A	12
0501 304 692	169.396	DAF	0220B	11	0631 329 127	160.238	KAS	0290B	3	0730 108 172	269.008	DAF	0210A	12
0501 304 692	169.396	DAF	0230B	4	0631 329 175	160.241	MB	0020B	3	0730 108 172	269.008	VOL	0240	12
0501 304 692	169.396	KAS	0300B	4	0631 329 175	160.241	DAF	0210B	3	0730 108 172	269.008	VOL	0260A	12
0501 309 496	269.005	MAN	0050B	4	0631 329 175	160.241	VOL	0260B	3	0730 150 767	169.396	MB	0020B	5
0501 309 496	269.005	DAF	0190B	4	0635 338 028	See	0735 340 080			0730 150 767	169.396	DAF	0210B	5
0501 309 496	269.005	KAS	0290B	4	0635 338 049	See	0750 116 165			0730 150 767	169.396	VOL	0260B	5
0501 313 171	269.011	MB	0010	6	0635 338 090	130.689	MB	0020B	10	0730 150 767	See	0501 304 692		
0501 313 171	269.011	MAN	0030	6	0635 338 090	130.689	DAF	0210B	10	0730 161 689	See	0730 162 428		
0501 313 171	269.011	IVE	0090	6	0635 338 090	130.689	VOL	0260B	10	0730 162 428	117.379	MB	0020A	15
0501 313 171	269.011	RVI	0130	6	0635 460 010	171.014	MB	0020A	9	0730 162 428	117.379	DAF	0210A	15
0501 313 171	269.011	DAF	0170	6	0635 460 010	171.014	DAF	0210A	9	0730 162 428	117.379	VOL	0240	15
0501 313 171	269.011	KAS	0270	6	0635 460 010	171.014	VOL	0240	9	0730 162 428	117.379	VOL	0260A	15
0501 315 236		MAN	0040	6	0635 460 010	171.014	VOL	0260A	9	0730 162 753		MAN	0040	16
0501 315 236		RVI	0140	6	0635 501 398	See	1246 203 008			0730 162 753		RVI	0140	16
0501 315 236		DAF	0180	6	0635 501 400	See	1246 203 007			0730 162 753		DAF	0180	16
0501 315 236		VOL	0250	6	0730 103 102	169.397	MB	0020B	6	0730 162 753		VOL	0250	16
0501 315 236		KAS	0280	6	0730 103 102	169.397	MAN	0060B	5	0730 162 753		KAS	0280	16
0501 316 333	139.752	MB	0020B	27	0730 103 102	169.397	MAN	0070B	5	0730 162 806	See	0735 295 148		
0501 316 333	139.752	DAF	0210B	27	0730 103 102	169.397	MAN	0070B	12	0730 505 046	See	0730 505 053		
0501 316 333	139.752	VOL	0260B	27	0730 103 102	169.397	MAN	0080B	5	0730 505 053	111.175	MAN	0050B	11
0631 329 037	160.239	MAN	0060B	3	0730 103 102	169.397	IVE	0100B	5	0730 505 053	111.175	MAN	0060B	11
0631 329 037	160.239	MAN	0070B	3	0730 103 102	169.397	IVE	0110B	5	0730 505 053	111.175	IVE	0100B	11
0631 329 037	160.239	MAN	0070B	10	0730 103 102	169.397	IVE	0110B	12	0730 505 053	111.175	RVI	0145B	11
0631 329 037	160.239	MAN	0080B	3	0730 103 102	169.397	IVE	0120B	5	0730 505 053	111.175	DAF	0190B	11
0631 329 037	160.239	IVE	0100B	3	0730 103 102	169.397	RVI	0145B	5	0730 505 053	111.175	KAS	0290B	11
0631 329 037	160.239	IVE	0110B	3	0730 103 102	169.397	RVI	0150B	5	0730 505 053	111.175	KAS	0300B	11
0631 329 037	160.239	IVE	0110B	10	0730 103 102	169.397	RVI	0150B	12	0730 505 092	111.265	MAN	0080B	11
0631 329 037	160.239	IVE	0120B	3	0730 103 102	169.397	RVI	0160B	5	0730 505 092	111.265	IVE	0120B	11
0631 329 037	160.239	RVI	0145B	3	0730 103 102	169.397	DAF	0200B	5	0730 505 092	111.265	RVI	0160B	11

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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.
0730 505 092	111.265	DAF	0230B 11	0732 040 385	156.037	KAS	0300B 17	0732 040 409	156.140	RVI	0130 24
0730 505 140	111.264	MAN	0070B 18	0732 040 385	156.037	KAS	0300B 35	0732 040 409	156.140	RVI	0130 38
0730 505 140	111.264	MAN	0080B 11	0732 040 386	156.036	MAN	0060B 36	0732 040 409	156.140	RVI	0140 12
0730 505 140	111.264	IVE	0110B 18	0732 040 386	156.036	MAN	0070B 44	0732 040 409	156.140	RVI	0145A 11
0730 505 140	111.264	IVE	0120B 11	0732 040 386	156.036	MAN	0080A 10	0732 040 409	156.140	RVI	0145A 22
0730 505 140	111.264	RVI	0150B 18	0732 040 386	156.036	MAN	0080B 41	0732 040 409	156.140	RVI	0150A 11
0730 505 140	111.264	RVI	0160B 11	0732 040 386	156.036	IVE	0100B 36	0732 040 409	156.140	RVI	0150A 22
0730 505 140	111.264	DAF	0200B 11	0732 040 386	156.036	IVE	0110B 44	0732 040 409	156.140	RVI	0160A 31
0730 505 140	111.264	DAF	0220B 18	0732 040 386	156.036	IVE	0120A 10	0732 040 409	156.140	DAF	0170 12
0730 505 140	111.264	DAF	0230B 11	0732 040 386	156.036	IVE	0120B 41	0732 040 409	156.140	DAF	0170 24
0730 505 149		MB	0020B 12	0732 040 386	156.036	RVI	0145B 36	0732 040 409	156.140	DAF	0170 38
0730 505 149		DAF	0210B 12	0732 040 386	156.036	RVI	0150B 44	0732 040 409	156.140	DAF	0180 12
0730 505 149		VOL	0260B 12	0732 040 386	156.036	RVI	0160A 10	0732 040 409	156.140	DAF	0190A 11
0732 040 385	156.037	MAN	0050B 17	0732 040 386	156.036	RVI	0160B 41	0732 040 409	156.140	DAF	0190A 22
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0735 470 115	171.044	DAF	0200B	6	0750 112 047		IVE	0110B	39	0750 115 227	137.074	IVE	0110A	15
0735 470 115	171.044	DAF	0220B	6	0750 112 047		IVE	0120B	28	0750 115 227	137.074	RVI	0150A	15
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0735 470 115	171.044	DAF	0230B	6	0750 112 047		IVE	0120B	36	0750 115 227	137.074	DAF	0200A	15
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1297 304 402	119.119	MAN	0030	20	1297 304 436	160.189	DAF	0190A	21	1304 202 038	See	1304	202	186
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1297 304 402	119.119	IVE	0090	20	1297 304 436	160.189	DAF	0220A	21	1304 202 047	See	1304	202	184
1297 304 402	119.119	RVI	0130	20	1297 304 436	160.189	DAF	0220A	50	1304 202 049	See	1304	202	186
1297 304 402	119.119	RVI	0140	20	1297 304 436	160.189	DAF	0230A	30	1304 202 050	See	1304	202	188
1297 304 402	119.119	DAF	0170	20	1297 304 436	160.189	DAF	0230A	54	1304 202 078	See	1304	202	247
1297 304 402	119.119	DAF	0180	20	1297 304 436	160.189	VOL	0250	11	1304 202 082	See	1304	202	184
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1297 304 402	119.119	KAS	0270	20	1297 304 436	160.189	KAS	0270	23	1304 202 085	See	1304	202	193
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1297 304 436	160.189	MB	0010	11	1297 304 436	160.189	KAS	0300A	10	1304 202 098	See	1304	202	182
1297 304 436	160.189	MB	0010	23	1297 304 436	160.189	KAS	0300A	21	1304 202 099	See	1304	202	186
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1297 304 436	160.189	MAN	0060A	10	1297 304 484	119.167	MAN	0040	20	1304 202 112	See	1304	202	180
1297 304 436	160.189	MAN	0060A	21	1297 304 484	119.167	IVE	0090	20	1304 202 113	See	1304	202	201
1297 304 436	160.189	MAN	0070A	21	1297 304 484	119.167	RVI	0130	20	1304 202 114	See	1304	202	202
1297 304 436	160.189	MAN	0080A	30	1297 304 484	119.167	RVI	0140	20	1304 202 115	See	1304	202	203
1297 304 436	160.189	IVE	0090	11	1297 304 484	119.167	DAF	0170	20	1304 202 125	See	1304	202	175
1297 304 436	160.189	IVE	0090	23	1297 304 484	119.167	DAF	0180	20	1304 202 136	See	1304	202	172
1297 304 436	160.189	IVE	0090	37	1297 304 484	119.167	VOL	0250	20	1304 202 168	<i>102.357</i>	MAN	0070A	3
1297 304 436	160.189	IVE	0100A	10	1297 304 484	119.167	KAS	0270	20	1304 202 168	<i>102.357</i>	IVE	0110A	3
1297 304 436	160.189	IVE	0100A	21	1297 304 484	119.167	KAS	0280	20	1304 202 168	<i>102.357</i>	RVI	0150A	3

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1304 202 170	102.354	MAN	0070A 3	1304 202 186		DAF	0190A 3	1304 202 211		KAS	0300A 3
1304 202 170	102.354	IVE	0110A 3	1304 202 186		KAS	0290A 3	1304 202 212	102.349	MAN	0060A 3
1304 202 170	102.354	RVI	0150A 3	1304 202 188		MAN	0050A 3	1304 202 212	102.349	IVE	0100A 3
1304 202 170	102.354	DAF	0220A 3	1304 202 188		DAF	0190A 3	1304 202 212	102.349	RVI	0145A 3
1304 202 171	102.352	MAN	0070A 3	1304 202 188		KAS	0290A 3	1304 202 212	102.349	KAS	0300A 3
1304 202 171	102.352	IVE	0110A 3	1304 202 190	102.345	MAN	0050A 3	1304 202 214	109.396	MAN	0060A 5
1304 202 171	102.352	RVI	0150A 3	1304 202 190	102.345	DAF	0190A 3	1304 202 214	109.396	IVE	0100A 5
1304 202 171	102.352	DAF	0220A 3	1304 202 190	102.345	KAS	0290A 3	1304 202 214	109.396	RVI	0145A 5
1304 202 172	102.356	MAN	0070A 3	1304 202 193	102.344	MAN	0050A 3	1304 202 214	109.396	KAS	0300A 5
1304 202 172	102.356	IVE	0110A 3	1304 202 193	102.344	DAF	0190A 3	1304 202 245	102.355	MAN	0070A 3
1304 202 172	102.356	RVI	0150A 3	1304 202 193	102.344	KAS	0290A 3	1304 202 245	102.355	IVE	0110A 3
1304 202 172	102.356	DAF	0220A 3	1304 202 196	See	1304 202 247		1304 202 245	102.355	RVI	0150A 3
1304 202 173	102.358	MAN	0070A 3	1304 202 201	190.311	MAN	0080A 7	1304 202 245	102.355	DAF	0220A 3
1304 202 173	102.358	IVE	0110A 3	1304 202 201	190.311	IVE	0120A 7	1304 202 247		MAN	0050A 3
1304 202 173	102.358	RVI	0150A 3	1304 202 201	190.311	RVI	0160A 7	1304 202 247		DAF	0190A 3
1304 202 173	102.358	DAF	0220A 3	1304 202 201	190.311	DAF	0230A 7	1304 202 247		KAS	0290A 3
1304 202 175	102.353	MAN	0070A 3	1304 202 202	190.312	MAN	0080A 7	1304 212 005		MAN	0080B 30
1304 202 175	102.353	IVE	0110A 3	1304 202 202	190.312	IVE	0120A 7	1304 212 005		IVE	0120B 30
1304 202 175	102.353	RVI	0150A 3	1304 202 202	190.312	RVI	0160A 7	1304 212 005		RVI	0160B 30
1304 202 175	102.353	DAF	0220A 3	1304 202 202	190.312	DAF	0230A 7	1304 212 005		DAF	0230B 30
1304 202 177	102.347	MAN	0070A 3	1304 202 203	190.298	MAN	0080A 7	1304 232 022	198.815	MAN	0080B 7
1304 202 177	102.347	IVE	0110A 3	1304 202 203	190.298	IVE	0120A 7	1304 232 022	198.815	IVE	0120B 7
1304 202 177	102.347	RVI	0150A 3	1304 202 203	190.298	RVI	0160A 7	1304 232 022	198.815	RVI	0160B 7
1304 202 177	102.347	DAF	0200A 3	1304 202 203	190.298	DAF	0230A 7	1304 232 022	198.815	DAF	0230B 7
1304 202 177	102.347	DAF	0220A 3	1304 202 206	102.348	MAN	0060A 3	1304 232 025	298.018	MAN	0070B 14
1304 202 178	102.350	MAN	0070A 3	1304 202 206	102.348	IVE	0100A 3	1304 232 025	298.018	IVE	0110B 14
1304 202 178	102.350	IVE	0110A 3	1304 202 206	102.348	RVI	0145A 3	1304 232 025	298.018	RVI	0150B 14
1304 202 178	102.350	RVI	0150A 3	1304 202 206	102.348	KAS	0300A 3	1304 232 025	298.018	DAF	0200B 7
1304 202 178	102.350	DAF	0220A 3	1304 202 207		MAN	0060A 3	1304 232 025	298.018	DAF	0220B 14
1304 202 180	102.351	MAN	0070A 3	1304 202 207		IVE	0100A 3	1304 232 026	198.795	MAN	0080B 7
1304 202 180	102.351	IVE	0110A 3	1304 202 207		RVI	0145A 3	1304 232 026	198.795	IVE	0120B 7
1304 202 180	102.351	RVI	0150A 3	1304 202 207		KAS	0300A 3	1304 232 026	198.795	RVI	0160B 7
1304 202 180	102.351	DAF	0220A 3	1304 202 208	102.361	MAN	0060A 3	1304 232 026	198.795	DAF	0230B 7
1304 202 182		MAN	0050A 3	1304 202 208	102.361	IVE	0100A 3	1304 232 028	190.386	MAN	0050B 1
1304 202 182		DAF	0190A 3	1304 202 208	102.361	RVI	0145A 3	1304 232 028	190.386	DAF	0190B 1
1304 202 182		KAS	0290A 3	1304 202 208	102.361	KAS	0300A 3	1304 232 028	190.386	KAS	0290B 1
1304 202 184		MAN	0050A 3	1304 202 210		MAN	0060A 3	1304 232 029	298.016	MAN	0050B 7
1304 202 184		DAF	0190A 3	1304 202 210		IVE	0100A 3	1304 232 029	298.016	DAF	0190B 7
1304 202 184		KAS	0290A 3	1304 202 210		RVI	0145A 3	1304 232 029	298.016	KAS	0290B 7
1304 202 185	102.346	MAN	0050A 3	1304 202 210		KAS	0300A 3	1304 232 037	298.023	MAN	0070B 7
1304 202 185	102.346	DAF	0190A 3	1304 202 211		MAN	0060A 3	1304 232 037	298.023	IVE	0110B 7
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1304 232 048	See	1304 232 095			1304 232 092	190.388	RVI	0145B	1	1304 233 013	109.393	RVI	0145B	18
1304 232 051	298.019	MAN	0060B	7	1304 232 092	190.388	KAS	0300B	1	1304 233 013	109.393	RVI	0150B	25
1304 232 051	298.019	IVE	0100B	7	1304 232 093	See	1304 232 092			1304 233 013	109.393	RVI	0160B	18
1304 232 051	298.019	RVI	0145B	7	1304 232 095	190.391	MAN	0070B	1	1304 233 013	109.393	DAF	0220B	25
1304 232 051	298.019	KAS	0300B	7	1304 232 095	190.391	IVE	0110B	1	1304 233 013	109.393	DAF	0230B	18
1304 232 054	298.022	MAN	0080B	7	1304 232 095	190.391	RVI	0150B	1	1304 233 013	109.393	KAS	0300B	18
1304 232 054	298.022	IVE	0120B	7	1304 232 095	190.391	DAF	0220B	1	1304 298 902	See	1304 298 914		
1304 232 054	298.022	RVI	0160B	7	1304 233 004	See	1304 233 005			1304 298 908	298.026	MAN	0050A	46
1304 232 054	298.022	DAF	0230B	7	1304 233 005	198.817	MAN	0050B	12	1304 298 908	298.026	MAN	0050B	31
1304 232 056	See	1304 232 086			1304 233 005	198.817	MAN	0060B	12	1304 298 908	298.026	MAN	0070A	44
1304 232 062	See	1304 232 091			1304 233 005	198.817	MAN	0070B	19	1304 298 908	298.026	MAN	0070B	45
1304 232 083	See	1304 232 085			1304 233 005	198.817	MAN	0080B	12	1304 298 908	298.026	MAN	0080A	48
1304 232 085	109.173	MAN	0060B	19	1304 233 005	198.817	IVE	0100B	12	1304 298 908	298.026	MAN	0080B	42
1304 232 085	109.173	MAN	0070B	26	1304 233 005	198.817	IVE	0110B	19	1304 298 908	298.026	IVE	0110A	44
1304 232 085	109.173	MAN	0080B	19	1304 233 005	198.817	IVE	0120B	12	1304 298 908	298.026	IVE	0110B	45
1304 232 085	109.173	IVE	0100B	19	1304 233 005	198.817	RVI	0145B	12	1304 298 908	298.026	IVE	0120A	48
1304 232 085	109.173	IVE	0110B	26	1304 233 005	198.817	RVI	0150B	19	1304 298 908	298.026	IVE	0120B	42
1304 232 085	109.173	IVE	0120B	19	1304 233 005	198.817	RVI	0160B	12	1304 298 908	298.026	RVI	0150A	44
1304 232 085	109.173	RVI	0145B	19	1304 233 005	198.817	DAF	0190B	12	1304 298 908	298.026	RVI	0150B	45
1304 232 085	109.173	RVI	0150B	26	1304 233 005	198.817	DAF	0220B	19	1304 298 908	298.026	RVI	0160A	48
1304 232 085	109.173	RVI	0160B	19	1304 233 005	198.817	DAF	0230B	12	1304 298 908	298.026	RVI	0160B	42
1304 232 085	109.173	DAF	0200B	19	1304 233 005	198.817	KAS	0290B	12	1304 298 908	298.026	DAF	0190A	46
1304 232 085	109.173	DAF	0220B	26	1304 233 005	198.817	KAS	0300B	12	1304 298 908	298.026	DAF	0190B	31
1304 232 085	109.173	DAF	0230B	19	1304 233 006	198.796	MAN	0060B	12	1304 298 908	298.026	DAF	0200A	43
1304 232 085	109.173	KAS	0300B	19	1304 233 006	198.796	MAN	0070B	19	1304 298 908	298.026	DAF	0220A	53
1304 232 086	190.390	MAN	0080B	1	1304 233 006	198.796	MAN	0080B	12	1304 298 908	298.026	DAF	0220B	45
1304 232 086	190.390	IVE	0120B	1	1304 233 006	198.796	IVE	0100B	12	1304 298 908	298.026	DAF	0230A	57
1304 232 086	190.390	RVI	0160B	1	1304 233 006	198.796	IVE	0110B	19	1304 298 908	298.026	DAF	0230B	42
1304 232 086	190.390	DAF	0230B	1	1304 233 006	198.796	IVE	0120B	12	1304 298 908	298.026	KAS	0290A	46
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1304 232 088	190.389	IVE	0120B	1	1304 233 006	198.796	RVI	0160B	12	1304 298 914	198.945	MAN	0050B	32
1304 232 088	190.389	RVI	0160B	1	1304 233 006	198.796	DAF	0200B	12	1304 298 914	198.945	MAN	0060A	43
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1304 232 091	190.387	DAF	0200B	1	1304 233 013	109.393	MAN	0080B	18	1304 298 914	198.945	IVE	0100B	38
1304 232 091	190.387	DAF	0220B	8	1304 233 013	109.393	IVE	0100B	18	1304 298 914	198.945	IVE	0110A	45
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1304 298 914	198.945	KAS 0290A 47	1304 303 171	146.590	IVE 0110A 37	1304 303 218	146.582	MAN 0050A 38
1304 298 914	198.945	KAS 0290B 32	1304 303 171	146.590	RVI 0150A 37	1304 303 218	146.582	DAF 0190A 38
1304 298 914	198.945	KAS 0300A 43	1304 303 171	146.590	DAF 0220A 37	1304 303 218	146.582	KAS 0290A 38
1304 298 914	198.945	KAS 0300B 38	1304 303 172	143.125	MAN 0070A 38	1304 303 219	146.581	MAN 0050A 38
1304 298 939	298.027	MAN 0060A 42	1304 303 172	143.125	IVE 0110A 38	1304 303 219	146.581	DAF 0190A 38
1304 298 939	298.027	MAN 0060B 37	1304 303 172	143.125	RVI 0150A 38	1304 303 219	146.581	KAS 0290A 38
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1304 302 169	145.478	IVE 0120A 3	1304 303 206	143.118	KAS 0290A 40	1304 303 243	143.119	RVI 0150A 38
1304 302 169	145.478	RVI 0160A 3	1304 303 207	143.116	MAN 0050A 40	1304 303 243	143.119	DAF 0200A 37
1304 302 169	145.478	DAF 0230A 3	1304 303 207	143.116	DAF 0190A 40	1304 303 243	143.119	DAF 0220A 38
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1304 302 188	109.169	RVI 0160A 5	1304 303 209	143.122	IVE 0110A 38	1304 303 244	147.228	RVI 0150A 37
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1304 303 267	105.184	MAN 0070A 39	1304 303 286	143.123	IVE 0110A 38	1304 304 012	109.170	DAF 0230A 15
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1304 303 267	105.184	DAF 0200A 38	1304 303 287	146.589	MAN 0070A 37	1304 304 014	119.150	MAN 0070A 6
1304 303 267	105.184	DAF 0220A 39	1304 303 287	146.589	IVE 0110A 37	1304 304 014	119.150	MAN 0080A 16
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1304 303 268	105.188	IVE 0110A 39	1304 303 287	146.589	DAF 0220A 37	1304 304 014	119.150	IVE 0120A 16
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1304 303 269	105.187	RVI 0150A 39	1304 303 289	143.120	KAS 0300A 37	1304 304 014	119.150	DAF 0220A 6
1304 303 269	105.187	DAF 0220A 39	1304 303 291	105.186	MAN 0060A 35	1304 304 014	119.150	DAF 0230A 16
1304 303 272	146.584	MAN 0070A 36	1304 303 291	105.186	IVE 0100A 35	1304 304 014	119.150	KAS 0290A 6
1304 303 272	146.584	IVE 0110A 36	1304 303 291	105.186	RVI 0145A 35	1304 304 050	117.377	MAN 0050A 14
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1304 303 272	146.584	DAF 0200A 35	1304 303 292	143.121	MAN 0060A 34	1304 304 050	117.377	IVE 0110A 14
1304 303 272	146.584	DAF 0220A 36	1304 303 292	143.121	IVE 0100A 34	1304 304 050	117.377	RVI 0150A 14
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1304 303 273	146.394	IVE 0120A 40	1304 303 292	143.121	KAS 0300A 34	1304 304 050	117.377	DAF 0200A 14
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1304 303 277	105.099	DAF 0230A 43	1304 303 322	105.185	IVE 0100A 38	1304 304 051	157.697	KAS 0290A 7
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1304 303 283	146.434	DAF 0230A 40	1304 304 007	109.172	RVI 0160A 33	1304 304 261	157.188	IVE 0120A 37
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1304 304 334	See	1304 304 499	1304 304 422	145.519	IVE 0120A 25	1304 304 448	157.699	DAF 0200A 32
1304 304 337	See	1304 304 498	1304 304 422	145.519	RVI 0160A 25	1304 304 448	157.699	DAF 0220A 33
1304 304 358	145.533	MAN 0080A 32	1304 304 422	145.519	DAF 0230A 25	1304 304 449	103.190	MAN 0050A 25
1304 304 358	145.533	IVE 0120A 32	1304 304 424	See	1304 304 464	1304 304 449	103.190	MAN 0070A 25
1304 304 358	145.533	RVI 0160A 32	1304 304 426	145.828	MAN 0070A 27	1304 304 449	103.190	IVE 0110A 25
1304 304 358	145.533	DAF 0230A 32	1304 304 426	145.828	IVE 0110A 27	1304 304 449	103.190	RVI 0150A 25
1304 304 365	145.839	MAN 0070A 12	1304 304 426	145.828	RVI 0150A 27	1304 304 449	103.190	DAF 0190A 25
1304 304 365	145.839	IVE 0110A 12	1304 304 426	145.828	DAF 0220A 27	1304 304 449	103.190	DAF 0200A 25
1304 304 365	145.839	RVI 0150A 12	1304 304 428	145.829	MAN 0070A 27	1304 304 449	103.190	DAF 0220A 25
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1304 304 369	145.840	RVI 0150A 23	1304 304 435	147.226	IVE 0110A 31	1304 304 461	145.820	DAF 0190A 16
1304 304 369	145.840	DAF 0220A 23	1304 304 435	147.226	RVI 0150A 31	1304 304 461	145.820	KAS 0290A 16
1304 304 376	145.520	MAN 0080A 32	1304 304 435	147.226	DAF 0200A 30	1304 304 462	147.224	MAN 0050A 23
1304 304 376	145.520	IVE 0120A 32	1304 304 435	147.226	DAF 0220A 31	1304 304 462	147.224	DAF 0190A 23
1304 304 376	145.520	RVI 0160A 32	1304 304 437	147.235	MAN 0070A 31	1304 304 462	147.224	KAS 0290A 23
1304 304 376	145.520	DAF 0230A 32	1304 304 437	147.235	IVE 0110A 31	1304 304 463	145.818	MAN 0050A 16
1304 304 394	154.360	MAN 0050A 31	1304 304 437	147.235	RVI 0150A 31	1304 304 463	145.818	DAF 0190A 16
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1304 304 394	154.360	KAS 0290A 31	1304 304 443	157.698	MAN 0070A 28	1304 304 464	147.220	MAN 0050A 23
1304 304 408	109.171	MAN 0050A 17	1304 304 443	157.698	IVE 0110A 28	1304 304 464	147.220	DAF 0190A 23
1304 304 408	109.171	MAN 0070A 17	1304 304 443	157.698	RVI 0150A 28	1304 304 464	147.220	KAS 0290A 23
1304 304 408	109.171	MAN 0080A 26	1304 304 443	157.698	DAF 0200A 27	1304 304 471	145.830	MAN 0070A 23
1304 304 408	109.171	IVE 0110A 17	1304 304 443	157.698	DAF 0220A 28	1304 304 471	145.830	IVE 0110A 23
1304 304 408	109.171	IVE 0120A 26	1304 304 444	154.362	MAN 0070A 29	1304 304 471	145.830	RVI 0150A 23
1304 304 408	109.171	RVI 0150A 17	1304 304 444	154.362	IVE 0110A 29	1304 304 471	145.830	DAF 0220A 23
1304 304 408	109.171	RVI 0160A 26	1304 304 444	154.362	RVI 0150A 29	1304 304 472	145.832	MAN 0070A 12
1304 304 408	109.171	DAF 0190A 17	1304 304 444	154.362	DAF 0200A 28	1304 304 472	145.832	IVE 0110A 12
1304 304 408	109.171	DAF 0200A 17	1304 304 444	154.362	DAF 0220A 29	1304 304 472	145.832	RVI 0150A 12
1304 304 408	109.171	DAF 0220A 17	1304 304 445	109.390	MAN 0050A 28	1304 304 472	145.832	DAF 0220A 12
1304 304 408	109.171	DAF 0230A 26	1304 304 445	109.390	DAF 0190A 28	1304 304 475	145.479	MAN 0080A 21
1304 304 408	109.171	KAS 0290A 17	1304 304 445	109.390	KAS 0290A 28	1304 304 475	145.479	IVE 0120A 21
1304 304 417	145.518	MAN 0080A 21	1304 304 446	147.219	MAN 0050A 33	1304 304 475	145.479	RVI 0160A 21
1304 304 417	145.518	IVE 0120A 21	1304 304 446	147.219	DAF 0190A 33	1304 304 475	145.479	DAF 0230A 21
1304 304 417	145.518	RVI 0160A 21	1304 304 446	147.219	KAS 0290A 33	1304 304 478	145.822	MAN 0050A 12

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1304 304 478	145.822	KAS	0290A	12	1304 304 518	146.439	RVI	0160A	14	1304 304 576	157.700	RVI	0145A	19
1304 304 479	145.821	MAN	0050A	12	1304 304 518	146.439	DAF	0230A	14	1304 304 576	157.700	KAS	0300A	19
1304 304 479	145.821	DAF	0190A	12	1304 304 541	See	1304 304 597			1304 304 581	145.825	MAN	0060A	16
1304 304 479	145.821	KAS	0290A	12	1304 304 542	119.151	MAN	0050A	18	1304 304 581	145.825	IVE	0100A	16
1304 304 480	145.819	MAN	0050A	12	1304 304 542	119.151	MAN	0070A	18	1304 304 581	145.825	RVI	0145A	16
1304 304 480	145.819	DAF	0190A	12	1304 304 542	119.151	MAN	0080A	27	1304 304 581	145.825	KAS	0300A	16
1304 304 480	145.819	KAS	0290A	12	1304 304 542	119.151	IVE	0110A	18	1304 304 582	145.827	MAN	0060A	16
1304 304 486	147.222	MAN	0050A	23	1304 304 542	119.151	IVE	0120A	27	1304 304 582	145.827	IVE	0100A	16
1304 304 486	147.222	DAF	0190A	23	1304 304 542	119.151	RVI	0150A	18	1304 304 582	145.827	RVI	0145A	16
1304 304 486	147.222	KAS	0290A	23	1304 304 542	119.151	RVI	0160A	27	1304 304 582	145.827	KAS	0300A	16
1304 304 496	119.149	MAN	0080A	6	1304 304 542	119.151	DAF	0190A	18	1304 304 586	147.229	MAN	0060A	24
1304 304 496	119.149	IVE	0120A	6	1304 304 542	119.151	DAF	0200A	18	1304 304 586	147.229	IVE	0100A	24
1304 304 496	119.149	RVI	0160A	6	1304 304 542	119.151	DAF	0220A	18	1304 304 586	147.229	RVI	0145A	24
1304 304 496	119.149	DAF	0230A	6	1304 304 542	119.151	DAF	0230A	27	1304 304 586	147.229	KAS	0300A	24
1304 304 497	145.480	MAN	0080A	25	1304 304 542	119.151	KAS	0290A	18	1304 304 587	147.232	MAN	0060A	24
1304 304 497	145.480	IVE	0120A	25	1304 304 543	145.833	MAN	0070A	27	1304 304 587	147.232	IVE	0100A	24
1304 304 497	145.480	RVI	0160A	25	1304 304 543	145.833	IVE	0110A	27	1304 304 587	147.232	RVI	0145A	24
1304 304 497	145.480	DAF	0230A	25	1304 304 543	145.833	RVI	0150A	27	1304 304 587	147.232	KAS	0300A	24
1304 304 498	147.227	MAN	0070A	23	1304 304 543	145.833	DAF	0220A	27	1304 304 588	157.701	MAN	0060A	29
1304 304 498	147.227	IVE	0110A	23	1304 304 549	145.481	MAN	0080A	32	1304 304 588	157.701	IVE	0100A	29
1304 304 498	147.227	RVI	0150A	23	1304 304 549	145.481	IVE	0120A	32	1304 304 588	157.701	RVI	0145A	29
1304 304 498	147.227	DAF	0200A	23	1304 304 549	145.481	RVI	0160A	32	1304 304 588	157.701	KAS	0300A	29
1304 304 498	147.227	DAF	0220A	23	1304 304 549	145.481	DAF	0230A	32	1304 304 591	157.696	MAN	0050A	19
1304 304 499	145.823	MAN	0070A	16	1304 304 553	147.236	MAN	0070A	31	1304 304 591	157.696	MAN	0070A	19
1304 304 499	145.823	IVE	0110A	16	1304 304 553	147.236	IVE	0110A	31	1304 304 591	157.696	IVE	0110A	19
1304 304 499	145.823	RVI	0150A	16	1304 304 553	147.236	RVI	0150A	31	1304 304 591	157.696	RVI	0150A	19
1304 304 499	145.823	DAF	0200A	16	1304 304 553	147.236	DAF	0220A	31	1304 304 591	157.696	DAF	0190A	19
1304 304 499	145.823	DAF	0220A	16	1304 304 568	117.378	DAF	0200A	26	1304 304 591	157.696	DAF	0200A	19
1304 304 500	145.824	MAN	0070A	12	1304 304 569	145.834	MAN	0070A	23	1304 304 591	157.696	DAF	0220A	19
1304 304 500	145.824	IVE	0110A	12	1304 304 569	145.834	IVE	0110A	23	1304 304 591	157.696	KAS	0290A	19
1304 304 500	145.824	RVI	0150A	12	1304 304 569	145.834	RVI	0150A	23	1304 304 597	154.200	MAN	0050A	20
1304 304 500	145.824	DAF	0200A	12	1304 304 569	145.834	DAF	0220A	23	1304 304 597	154.200	MAN	0060A	20
1304 304 500	145.824	DAF	0220A	12	1304 304 570	145.835	MAN	0070A	16	1304 304 597	154.200	MAN	0070A	20
1304 304 515	157.186	MAN	0080A	17	1304 304 570	145.835	IVE	0110A	16	1304 304 597	154.200	MAN	0080A	29
1304 304 515	157.186	IVE	0120A	17	1304 304 570	145.835	RVI	0150A	16	1304 304 597	154.200	IVE	0100A	20
1304 304 515	157.186	RVI	0160A	17	1304 304 570	145.835	DAF	0220A	16	1304 304 597	154.200	IVE	0110A	20
1304 304 515	157.186	DAF	0230A	17	1304 304 571	145.836	MAN	0070A	12	1304 304 597	154.200	IVE	0120A	29
1304 304 516	146.397	MAN	0080A	14	1304 304 571	145.836	IVE	0110A	12	1304 304 597	154.200	RVI	0145A	20
1304 304 516	146.397	IVE	0120A	14	1304 304 571	145.836	RVI	0150A	12	1304 304 597	154.200	RVI	0150A	20
1304 304 516	146.397	RVI	0160A	14	1304 304 571	145.836	DAF	0220A	12	1304 304 597	154.200	RVI	0160A	29
1304 304 516	146.397	DAF	0230A	14	1304 304 575	See	1304 304 651			1304 304 597	154.200	DAF	0190A	20
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1304 304 597	154.200	KAS 0290A 20	1304 304 660	109.391	DAF 0190A 5	1304 304 681	119.170	DAF 0220A 18
1304 304 597	154.200	KAS 0300A 20	1304 304 660	109.391	DAF 0200A 5	1304 304 681	119.170	DAF 0230A 27
1304 304 604	103.191	MAN 0060A 14	1304 304 660	109.391	DAF 0220A 5	1304 304 681	119.170	KAS 0290A 18
1304 304 604	103.191	IVE 0100A 14	1304 304 660	109.391	KAS 0290A 5	1304 304 683	119.169	MAN 0050A 6
1304 304 604	103.191	RVI 0145A 14	1304 304 664	154.363	MB 0010 9	1304 304 683	119.169	MAN 0070A 6
1304 304 604	103.191	KAS 0300A 14	1304 304 664	154.363	MAN 0030 9	1304 304 683	119.169	MAN 0080A 16
1304 304 608	<i>157.703</i>	MAN 0080A 37	1304 304 664	154.363	MAN 0060A 8	1304 304 683	119.169	IVE 0110A 6
1304 304 608	<i>157.703</i>	IVE 0120A 37	1304 304 664	154.363	IVE 0090 9	1304 304 683	119.169	IVE 0120A 16
1304 304 608	<i>157.703</i>	RVI 0160A 37	1304 304 664	154.363	IVE 0100A 8	1304 304 683	119.169	RVI 0150A 6
1304 304 608	<i>157.703</i>	DAF 0230A 37	1304 304 664	154.363	RVI 0130 9	1304 304 683	119.169	RVI 0160A 16
1304 304 623	<i>109.407</i>	DAF 0220A 44	1304 304 664	154.363	RVI 0145A 8	1304 304 683	119.169	DAF 0190A 6
1304 304 623	<i>109.407</i>	DAF 0230A 48	1304 304 664	154.363	DAF 0170 9	1304 304 683	119.169	DAF 0200A 6
1304 304 626	<i>See</i>	1304 304 646	1304 304 664	154.363	KAS 0270 9	1304 304 683	119.169	DAF 0220A 6
1304 304 630	<i>103.129</i>	MAN 0080A 23	1304 304 664	154.363	KAS 0300A 8	1304 304 683	119.169	DAF 0230A 16
1304 304 630	<i>103.129</i>	IVE 0120A 23	1304 304 669	<i>147.146</i>	MAN 0080A 35	1304 304 683	119.169	KAS 0290A 6
1304 304 630	<i>103.129</i>	RVI 0160A 23	1304 304 669	<i>147.146</i>	IVE 0120A 35	1304 304 687	<i>157.713</i>	DAF 0230A 52
1304 304 630	<i>103.129</i>	DAF 0230A 23	1304 304 669	<i>147.146</i>	RVI 0160A 35	1304 304 688	154.199	MAN 0080A 18
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1304 304 636	<i>147.231</i>	IVE 0100A 12	1304 304 670	<i>147.149</i>	MAN 0080A 35	1304 304 688	154.199	RVI 0160A 18
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1304 304 653	157.187	MAN 0080A 28	1304 304 680	119.173	RVI 0160A 6	1304 305 030	<i>107.156</i>	IVE 0120A 45
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1304 304 660	109.391	MAN 0050A 5	1304 304 681	119.170	RVI 0150A 18	1304 305 030	<i>107.156</i>	DAF 0220A 41
1304 304 660	109.391	MAN 0070A 5	1304 304 681	119.170	RVI 0160A 27	1304 305 030	<i>107.156</i>	DAF 0230A 45

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1304 305 030	107.156	VOL	0260A	40	1304 306 009		IVE	0120B	25	1304 306 043		KAS	0290B	24
1304 305 030	107.156	KAS	0290A	43	1304 306 009		RVI	0145B	24	1304 306 043		KAS	0300B	24
1304 305 030	107.156	KAS	0300A	39	1304 306 009		RVI	0150B	32	1304 306 044		MAN	0050B	23
1304 305 031	See	1304 305 039			1304 306 009		RVI	0160B	25	1304 306 044		MAN	0070B	31
1304 305 033	See	1304 305 040			1304 306 009		DAF	0190B	24	1304 306 044		MAN	0080B	24
1304 305 036	See	1304 305 043			1304 306 009		DAF	0200B	24	1304 306 044		IVE	0110B	31
1304 305 037	See	1304 305 044			1304 306 009		DAF	0220B	32	1304 306 044		IVE	0120B	24
1304 305 038	See	1304 305 045			1304 306 009		DAF	0230B	25	1304 306 044		RVI	0150B	31
1304 305 039	147.150	MAN	0080A	47	1304 306 009		KAS	0290B	24	1304 306 044		RVI	0160B	24
1304 305 039	147.150	IVE	0120A	47	1304 306 009		KAS	0300B	24	1304 306 044		DAF	0190B	23
1304 305 039	147.150	RVI	0160A	47	1304 306 010		MAN	0050B	23	1304 306 044		DAF	0220B	31
1304 305 039	147.150	DAF	0230A	47	1304 306 010		MAN	0070B	31	1304 306 044		DAF	0230B	24
1304 305 040	147.130	MAN	0080A	47	1304 306 010		MAN	0080B	24	1304 306 044		KAS	0290B	23
1304 305 040	147.130	IVE	0120A	47	1304 306 010		IVE	0110B	31	1304 306 065		MAN	0050B	25
1304 305 040	147.130	RVI	0160A	47	1304 306 010		IVE	0120B	24	1304 306 065		DAF	0190B	25
1304 305 040	147.130	DAF	0230A	47	1304 306 010		RVI	0150B	31	1304 306 065		KAS	0290B	25
1304 305 041	147.145	MAN	0080A	47	1304 306 010		RVI	0160B	24	1304 306 077		MAN	0070B	33
1304 305 041	147.145	IVE	0120A	47	1304 306 010		DAF	0190B	23	1304 306 077		IVE	0110B	33
1304 305 041	147.145	RVI	0160A	47	1304 306 010		DAF	0200B	23	1304 306 077		RVI	0150B	33
1304 305 041	147.145	DAF	0230A	47	1304 306 010		DAF	0220B	31	1304 306 077		DAF	0200B	25
1304 305 043		MAN	0060A	41	1304 306 010		DAF	0230B	24	1304 306 077		DAF	0220B	33
1304 305 043		MAN	0070A	43	1304 306 010		KAS	0290B	23	1304 306 096		MAN	0050B	23
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1304 305 043		IVE	0110A	43	1304 306 011		MAN	0080B	26	1304 306 096		IVE	0110B	31
1304 305 043		RVI	0145A	41	1304 306 011		IVE	0100B	25	1304 306 096		RVI	0150B	31
1304 305 043		RVI	0150A	43	1304 306 011		IVE	0120B	26	1304 306 096		DAF	0190B	23
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1304 305 044		MAN	0070A	43	1304 306 011		DAF	0230B	26	1304 306 102		MAN	0060B	23
1304 305 044		IVE	0110A	43	1304 306 011		KAS	0300B	25	1304 306 102		IVE	0100B	23
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1304 305 045		IVE	0110A	43	1304 306 043		IVE	0100B	24	1304 306 103		RVI	0145B	23
1304 305 045		RVI	0150A	43	1304 306 043		IVE	0110B	32	1304 306 103		KAS	0300B	23
1304 305 045		DAF	0220A	43	1304 306 043		IVE	0120B	25	1304 306 107	141.195	MAN	0060B	33
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1304 313 133	109.397	IVE 0100B 19	1304 332 070	107.203	DAF 0190B 2	1304 332 111	107.157	MAN 0070B 2
1304 313 133	109.397	IVE 0120B 19	1304 332 070	107.203	KAS 0290B 2	1304 332 111	107.157	MAN 0070B 9
1304 313 133	109.397	RVI 0145B 19	1304 332 071	150.163	MAN 0050B 10	1304 332 111	107.157	MAN 0080B 2
1304 313 133	109.397	RVI 0160B 19	1304 332 071	150.163	MAN 0060B 10	1304 332 111	107.157	IVE 0100B 2
1304 313 133	109.397	DAF 0190B 19	1304 332 071	150.163	IVE 0100B 10	1304 332 111	107.157	IVE 0110B 2
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1304 332 043	123.219	MAN 0080B 8	1304 332 072	123.264	MAN 0050B 8	1304 332 111	107.157	RVI 0150B 9
1304 332 043	123.219	IVE 0120B 8	1304 332 072	123.264	DAF 0190B 8	1304 332 111	107.157	RVI 0160B 2
1304 332 043	123.219	RVI 0160B 8	1304 332 072	123.264	KAS 0290B 8	1304 332 111	107.157	DAF 0200B 2
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1304 332 044	150.139	MAN 0080B 10	1304 332 075	109.183	MAN 0060B 18	1304 332 111	107.157	DAF 0220B 9
1304 332 044	150.139	IVE 0120B 10	1304 332 075	109.183	MAN 0070B 25	1304 332 111	107.157	DAF 0230B 2
1304 332 044	150.139	RVI 0160B 10	1304 332 075	109.183	MAN 0080B 18	1304 332 111	107.157	KAS 0300B 2
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1304 332 060	150.141	MAN 0080B 10	1304 332 075	109.183	RVI 0145B 18	1304 332 122	123.265	KAS 0300B 8
1304 332 060	150.141	IVE 0110B 17	1304 332 075	109.183	RVI 0150B 25	1304 332 134	123.266	MAN 0080B 8
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1304 332 060	150.141	DAF 0230B 10	1304 332 075	109.183	KAS 0290B 18	1304 332 135	150.164	IVE 0120B 10
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1304 332 066	157.205	MAN 0070B 21	1304 332 089	154.210	MAN 0070B 22	1304 332 178	123.210	MAN 0080B 8
1304 332 066	157.205	MAN 0080B 14	1304 332 089	154.210	MAN 0080B 15	1304 332 178	123.210	IVE 0110B 15
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1304 332 066	157.205	IVE 0110B 21	1304 332 089	154.210	IVE 0110B 22	1304 332 178	123.210	RVI 0150B 15
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1304 332 066	157.205	RVI 0160B 14	1304 332 089	154.210	RVI 0160B 15	1304 332 178	123.210	DAF 0230B 8
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1304 332 210		RVI	0145B	10	1304 333 011	154.201	RVI	0160B	15	1304 334 061		IVE	0120B	35
1304 332 210		KAS	0300B	10	1304 333 011	154.201	DAF	0200B	15	1304 334 061		RVI	0145B	30
1304 332 215	150.135	MAN	0070B	17	1304 333 011	154.201	DAF	0220B	22	1304 334 061		RVI	0150B	38
1304 332 215	150.135	MAN	0080B	10	1304 333 011	154.201	DAF	0230B	15	1304 334 061		RVI	0160B	35
1304 332 215	150.135	IVE	0110B	17	1304 333 011	154.201	KAS	0300B	15	1304 334 061		DAF	0190B	30
1304 332 215	150.135	IVE	0120B	10	1304 333 021	119.171	MAN	0050B	13	1304 334 061		DAF	0220B	38
1304 332 215	150.135	RVI	0150B	17	1304 333 021	119.171	MAN	0060B	13	1304 334 061		DAF	0230B	35
1304 332 215	150.135	RVI	0160B	10	1304 333 021	119.171	MAN	0070B	20	1304 334 061		KAS	0290B	30
1304 332 215	150.135	DAF	0200B	10	1304 333 021	119.171	MAN	0080B	13	1304 334 061		KAS	0300B	30
1304 332 215	150.135	DAF	0220B	17	1304 333 021	119.171	IVE	0100B	13	1304 334 063		MAN	0060B	27
1304 332 215	150.135	DAF	0230B	10	1304 333 021	119.171	IVE	0110B	20	1304 334 063		MAN	0070B	35
1304 332 216	150.166	MAN	0080B	10	1304 333 021	119.171	IVE	0120B	13	1304 334 063		MAN	0080B	32
1304 332 216	150.166	IVE	0120B	10	1304 333 021	119.171	RVI	0145B	13	1304 334 063		IVE	0100B	27
1304 332 216	150.166	RVI	0160B	10	1304 333 021	119.171	RVI	0150B	20	1304 334 063		IVE	0110B	35
1304 332 216	150.166	DAF	0230B	10	1304 333 021	119.171	RVI	0160B	13	1304 334 063		IVE	0120B	32
1304 332 217	150.167	MAN	0080B	10	1304 333 021	119.171	DAF	0190B	13	1304 334 063		RVI	0145B	27
1304 332 217	150.167	IVE	0120B	10	1304 333 021	119.171	DAF	0220B	20	1304 334 063		RVI	0150B	35
1304 332 217	150.167	RVI	0160B	10	1304 333 021	119.171	DAF	0230B	13	1304 334 063		RVI	0160B	32
1304 332 217	150.167	DAF	0230B	10	1304 333 021	119.171	KAS	0290B	13	1304 334 063		DAF	0200B	27
1304 333 004	See		1304 333 005		1304 333 021	119.171	KAS	0300B	13	1304 334 063		DAF	0220B	35
1304 333 005	119.157	MAN	0050B	13	1304 334 008	See		1304 212 005		1304 334 063		DAF	0230B	32
1304 333 005	119.157	MAN	0060B	13	1304 334 038	See		1304 212 005		1304 334 063		KAS	0300B	27
1304 333 005	119.157	MAN	0070B	20	1304 334 039		MAN	0050B	27	1304 334 068		DAF	0200B	30
1304 333 005	119.157	MAN	0080B	13	1304 334 039		MAN	0060B	27	1304 334 069	See		1304 334 068	
1304 333 005	119.157	IVE	0100B	13	1304 334 039		MAN	0070B	35	1304 334 072		MAN	0050B	29
1304 333 005	119.157	IVE	0110B	20	1304 334 039		MAN	0080B	32	1304 334 072		MAN	0060B	29
1304 333 005	119.157	IVE	0120B	13	1304 334 039		IVE	0100B	27	1304 334 072		MAN	0070B	37
1304 333 005	119.157	RVI	0145B	13	1304 334 039		IVE	0110B	35	1304 334 072		MAN	0080B	34
1304 333 005	119.157	RVI	0150B	20	1304 334 039		IVE	0120B	32	1304 334 072		IVE	0100B	29
1304 333 005	119.157	RVI	0160B	13	1304 334 039		RVI	0145B	27	1304 334 072		IVE	0110B	37
1304 333 005	119.157	DAF	0190B	13	1304 334 039		RVI	0150B	35	1304 334 072		IVE	0120B	34
1304 333 005	119.157	DAF	0220B	20	1304 334 039		RVI	0160B	32	1304 334 072		RVI	0145B	29
1304 333 005	119.157	DAF	0230B	13	1304 334 039		DAF	0190B	27	1304 334 072		RVI	0150B	37
1304 333 005	119.157	KAS	0290B	13	1304 334 039		DAF	0220B	35	1304 334 072		RVI	0160B	34
1304 333 005	119.157	KAS	0300B	13	1304 334 039		DAF	0230B	32	1304 334 072		DAF	0190B	29
1304 333 011	154.201	MAN	0060B	15	1304 334 039		KAS	0290B	27	1304 334 072		DAF	0220B	37
1304 333 011	154.201	MAN	0070B	22	1304 334 039		KAS	0300B	27	1304 334 072		DAF	0230B	34
1304 333 011	154.201	MAN	0080B	15	1304 334 061		MAN	0050B	30	1304 334 072		KAS	0290B	29
1304 333 011	154.201	IVE	0100B	15	1304 334 061		MAN	0060B	30	1304 334 072		KAS	0300B	29
1304 333 011	154.201	IVE	0110B	22	1304 334 061		MAN	0070B	38	1304 334 079		MAN	0060B	32
1304 333 011	154.201	IVE	0120B	15	1304 334 061		MAN	0080B	35	1304 334 079		MAN	0070B	41
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1308 306 081		MB	0020B 22	1310 298 003	298.040	RVI	0130 58	1310 302 025	102.388	MB	0010 3
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1308 306 081		VOL	0260B 22	1310 298 003	298.040	KAS	0270 58	1310 302 025	102.388	IVE	0090 3
1308 332 004	107.138	MB	0020B 2	1310 298 018	298.041	MAN	0040 57	1310 302 025	102.388	RVI	0130 3
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1310 302 026	102.390	KAS	0270	3	1310 302 094	102.394	MAN	0040	3	1310 303 045	146.610	DAF	0170	49
1310 302 032	102.389	MB	0010	3	1310 302 094	102.394	RVI	0140	3	1310 303 045	146.610	KAS	0270	49
1310 302 032	102.389	MAN	0030	3	1310 302 094	102.394	DAF	0180	3	1310 303 047	See	1310 303 052		
1310 302 032	102.389	IVE	0090	3	1310 302 094	102.394	VOL	0250	3	1310 303 050	146.612	MB	0010	50
1310 302 032	102.389	RVI	0130	3	1310 302 094	102.394	KAS	0280	3	1310 303 050	146.612	MAN	0030	50
1310 302 032	102.389	DAF	0170	3	1310 302 096	102.399	MAN	0040	3	1310 303 050	146.612	IVE	0090	50
1310 302 032	102.389	KAS	0270	3	1310 302 096	102.399	RVI	0140	3	1310 303 050	146.612	RVI	0130	50
1310 302 033	102.393	MB	0010	3	1310 302 096	102.399	DAF	0180	3	1310 303 050	146.612	DAF	0170	50
1310 302 033	102.393	MAN	0030	3	1310 302 096	102.399	VOL	0250	3	1310 303 050	146.612	KAS	0270	50
1310 302 033	102.393	IVE	0090	3	1310 302 096	102.399	KAS	0280	3	1310 303 051	146.611	MB	0010	50
1310 302 033	102.393	RVI	0130	3	1310 302 097	102.395	MAN	0040	3	1310 303 051	146.611	MAN	0030	50
1310 302 033	102.393	DAF	0170	3	1310 302 097	102.395	RVI	0140	3	1310 303 051	146.611	IVE	0090	50
1310 302 033	102.393	KAS	0270	3	1310 302 097	102.395	DAF	0180	3	1310 303 051	146.611	RVI	0130	50
1310 302 045	109.403	MAN	0040	5	1310 302 097	102.395	VOL	0250	3	1310 303 051	146.611	DAF	0170	50
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1310 302 045	109.403	KAS	0280	5	1310 303 031	146.613	IVE	0090	51	1310 303 052	146.614	IVE	0090	51
1310 302 082	102.401	MAN	0040	3	1310 303 031	146.613	RVI	0130	51	1310 303 052	146.614	RVI	0130	51
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1310 302 089	102.396	VOL	0250	3	1310 303 033	146.609	DAF	0170	49	1310 303 059	146.617	DAF	0180	49
1310 302 089	102.396	KAS	0280	3	1310 303 033	146.609	KAS	0270	49	1310 303 059	146.617	VOL	0250	49
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1310 302 090	102.398	RVI	0140	3	1310 303 044	146.605	MAN	0030	48	1310 303 061	See	1310 303 075		
1310 302 090	102.398	DAF	0180	3	1310 303 044	146.605	IVE	0090	48	1310 303 062	146.619	MAN	0040	50
1310 302 090	102.398	VOL	0250	3	1310 303 044	146.605	RVI	0130	48	1310 303 062	146.619	RVI	0140	50
1310 302 090	102.398	KAS	0280	3	1310 303 044	146.605	DAF	0170	48	1310 303 062	146.619	DAF	0180	50
1310 302 092	102.400	MAN	0040	3	1310 303 044	146.605	KAS	0270	48	1310 303 062	146.619	VOL	0250	50
1310 302 092	102.400	RVI	0140	3	1310 303 045	146.610	MB	0010	49	1310 303 062	146.619	KAS	0280	50
1310 302 092	102.400	DAF	0180	3	1310 303 045	146.610	MAN	0030	49	1310 303 064	See	1310 303 073		
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1310 303 072	146.621	MAN	0040 51	1310 304 080	157.707	DAF	0170 21	1310 304 137	145.895	RVI	0140 13
1310 303 072	146.621	RVI	0140 51	1310 304 080	157.707	KAS	0270 21	1310 304 137	145.895	DAF	0180 13
1310 303 072	146.621	DAF	0180 51	1310 304 085	145.890	MB	0010 25	1310 304 137	145.895	VOL	0250 13
1310 303 072	146.621	VOL	0250 51	1310 304 085	145.890	MAN	0030 25	1310 304 137	145.895	KAS	0280 13
1310 303 072	146.621	KAS	0280 51	1310 304 085	145.890	IVE	0090 25	1310 304 138	145.894	MAN	0040 13
1310 303 073	146.622	MAN	0040 51	1310 304 085	145.890	RVI	0130 25	1310 304 138	145.894	RVI	0140 13
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1310 303 074	146.618	MAN	0040 49	1310 304 088	145.888	MAN	0030 18	1310 304 157	157.708	MB	0010 35
1310 303 074	146.618	RVI	0140 49	1310 304 088	145.888	IVE	0090 18	1310 304 157	157.708	MAN	0030 35
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1310 303 075	146.620	MAN	0040 50	1310 304 091	145.886	MB	0010 13	1310 304 157	157.708	KAS	0270 35
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1310 303 075	146.620	KAS	0280 50	1310 304 091	145.886	DAF	0170 13	1310 304 158	157.710	VOL	0250 8
1310 303 076	105.191	MB	0010 52	1310 304 091	145.886	KAS	0270 13	1310 304 158	157.710	KAS	0280 8
1310 303 076	105.191	MAN	0030 52	1310 304 092	145.887	MB	0010 13	1310 304 161	109.404	MAN	0040 10
1310 303 076	105.191	IVE	0090 52	1310 304 092	145.887	MAN	0030 13	1310 304 161	109.404	RVI	0140 10
1310 303 076	105.191	RVI	0130 52	1310 304 092	145.887	IVE	0090 13	1310 304 161	109.404	DAF	0180 10
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1310 304 175	154.190	DAF	0170	36	1310 304 195	154.371	DAF	0180	9	1310 305 003	147.239	IVE	0090	55
1310 304 175	154.190	DAF	0180	33	1310 304 195	154.371	VOL	0250	9	1310 305 003	147.239	RVI	0130	55
1310 304 175	154.190	VOL	0250	33	1310 304 195	154.371	KAS	0280	9	1310 305 003	147.239	DAF	0170	55
1310 304 175	154.190	KAS	0270	36	1310 304 196	145.900	MAN	0040	27	1310 305 003	147.239	KAS	0270	55
1310 304 175	154.190	KAS	0280	33	1310 304 196	145.900	RVI	0140	27	1310 305 006	See	1310 305 011		
1310 304 177	145.897	MAN	0040	18	1310 304 196	145.900	DAF	0180	27	1310 305 011	147.241	MAN	0040	55
1310 304 177	145.897	RVI	0140	18	1310 304 196	145.900	VOL	0250	27	1310 305 011	147.241	RVI	0140	55
1310 304 177	145.897	DAF	0180	18	1310 304 196	145.900	KAS	0280	27	1310 305 011	147.241	DAF	0180	55
1310 304 177	145.897	VOL	0250	18	1310 304 200	147.238	MB	0010	44	1310 305 011	147.241	VOL	0250	55
1310 304 177	145.897	KAS	0280	18	1310 304 200	147.238	MAN	0030	44	1310 305 011	147.241	KAS	0280	55
1310 304 178	145.896	MAN	0040	18	1310 304 200	147.238	IVE	0090	44	1311 304 009	109.402	MB	0010	10
1310 304 178	145.896	RVI	0140	18	1310 304 200	147.238	RVI	0130	44	1311 304 009	109.402	MAN	0030	10
1310 304 178	145.896	DAF	0180	18	1310 304 200	147.238	DAF	0170	44	1311 304 009	109.402	IVE	0090	10
1310 304 178	145.896	VOL	0250	18	1310 304 200	147.238	KAS	0270	44	1311 304 009	109.402	RVI	0130	10
1310 304 178	145.896	KAS	0280	18	1310 304 201	147.240	MAN	0040	45	1311 304 009	109.402	DAF	0170	10
1310 304 182	145.901	MAN	0040	41	1310 304 201	147.240	RVI	0140	45	1311 304 009	109.402	KAS	0270	10
1310 304 182	145.901	RVI	0140	41	1310 304 201	147.240	DAF	0180	45	1311 304 015	109.392	MAN	0060A	17
1310 304 182	145.901	DAF	0180	41	1310 304 201	147.240	VOL	0250	45	1311 304 015	109.392	IVE	0100A	17
1310 304 182	145.901	VOL	0250	41	1310 304 201	147.240	KAS	0280	45	1311 304 015	109.392	RVI	0145A	17
1310 304 182	145.901	KAS	0280	41	1310 304 202	154.135	MB	0010	22	1311 304 015	109.392	KAS	0300A	17
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1310 304 185	145.899	RVI	0140	23	1310 304 202	154.135	IVE	0090	22	1311 304 076	119.219	MAN	0060A	6
1310 304 185	145.899	DAF	0180	23	1310 304 202	154.135	RVI	0130	22	1311 304 076	119.219	IVE	0090	7
1310 304 185	145.899	VOL	0250	23	1310 304 202	154.135	RVI	0140	22	1311 304 076	119.219	IVE	0100A	6
1310 304 185	145.899	KAS	0280	23	1310 304 202	154.135	DAF	0170	22	1311 304 076	119.219	RVI	0130	7
1310 304 186	145.898	MAN	0040	23	1310 304 202	154.135	DAF	0180	22	1311 304 076	119.219	RVI	0145A	6
1310 304 186	145.898	RVI	0140	23	1310 304 202	154.135	VOL	0250	22	1311 304 076	119.219	DAF	0170	7
1310 304 186	145.898	DAF	0180	23	1310 304 202	154.135	KAS	0270	22	1311 304 076	119.219	KAS	0270	7
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1310 304 188	157.711	DAF	0180	42	1310 305 001	107.201	IVE	0090	56	1311 304 124	117.384	RVI	0130	16
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1311 304 255	119.220	DAF	0170 7	1312 304 150	188.209	DAF	0190A 36	1313 333 001	157.182	RVI	0160B 14
1311 304 255	119.220	KAS	0270 7	1312 304 150	188.209	DAF	0200A 33	1313 333 001	157.182	DAF	0200B 14
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1312 304 027	109.134	DAF	0170 19	1312 304 158	157.181	KAS	0280 32	1315 334 041		RVI	0145B 31
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1312 304 027	109.134	VOL	0250 19	1312 304 159	156.176	MAN	0030 39	1315 334 041		RVI	0160B 37
1312 304 027	109.134	KAS	0270 19	1312 304 159	156.176	MAN	0040 34	1315 334 041		DAF	0200B 31
1312 304 027	109.134	KAS	0280 19	1312 304 159	156.176	IVE	0090 39	1315 334 041		DAF	0220B 40
1312 304 052	157.180	MAN	0040 21	1312 304 159	156.176	RVI	0130 39	1315 334 041		DAF	0230B 37
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1312 304 052	157.180	DAF	0180 21	1312 304 159	156.176	DAF	0170 39	1316 304 078	154.202	MAN	0040 38
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102.344	1304 202 193	DAF	0190A	3	102.355	1304 202 245	RVI	0150A	3	102.391	1310 302 022	MAN	0030	3
102.344	1304 202 193	KAS	0290A	3	102.355	1304 202 245	DAF	0220A	3	102.391	1310 302 022	IVE	0090	3
102.345	1304 202 190	MAN	0050A	3	102.356	1304 202 172	MAN	0070A	3	102.391	1310 302 022	RVI	0130	3
102.345	1304 202 190	DAF	0190A	3	102.356	1304 202 172	IVE	0110A	3	102.391	1310 302 022	DAF	0170	3
102.345	1304 202 190	KAS	0290A	3	102.356	1304 202 172	RVI	0150A	3	102.391	1310 302 022	KAS	0270	3
102.346	1304 202 185	MAN	0050A	3	102.356	1304 202 172	DAF	0220A	3	102.392	1310 302 021	MB	0010	3
102.346	1304 202 185	DAF	0190A	3	102.357	1304 202 168	MAN	0070A	3	102.392	1310 302 021	MAN	0030	3
102.346	1304 202 185	KAS	0290A	3	102.357	1304 202 168	IVE	0110A	3	102.392	1310 302 021	IVE	0090	3
102.347	1304 202 177	MAN	0070A	3	102.357	1304 202 168	RVI	0150A	3	102.392	1310 302 021	RVI	0130	3
102.347	1304 202 177	IVE	0110A	3	102.357	1304 202 168	DAF	0220A	3	102.392	1310 302 021	DAF	0170	3
102.347	1304 202 177	RVI	0150A	3	102.358	1304 202 173	MAN	0070A	3	102.392	1310 302 021	KAS	0270	3
102.347	1304 202 177	DAF	0200A	3	102.358	1304 202 173	IVE	0110A	3	102.393	1310 302 033	MB	0010	3
102.347	1304 202 177	DAF	0220A	3	102.358	1304 202 173	RVI	0150A	3	102.393	1310 302 033	MAN	0030	3
102.348	1304 202 206	MAN	0060A	3	102.358	1304 202 173	DAF	0220A	3	102.393	1310 302 033	IVE	0090	3
102.348	1304 202 206	IVE	0100A	3	102.361	1304 202 208	MAN	0060A	3	102.393	1310 302 033	RVI	0130	3
102.348	1304 202 206	RVI	0145A	3	102.361	1304 202 208	IVE	0100A	3	102.393	1310 302 033	DAF	0170	3
102.348	1304 202 206	KAS	0300A	3	102.361	1304 202 208	RVI	0145A	3	102.393	1310 302 033	KAS	0270	3
102.349	1304 202 212	MAN	0060A	3	102.361	1304 202 208	KAS	0300A	3	102.394	1310 302 094	MAN	0040	3
102.349	1304 202 212	IVE	0100A	3	102.387	1310 302 001	MB	0010	3	102.394	1310 302 094	RVI	0140	3
102.349	1304 202 212	RVI	0145A	3	102.387	1310 302 001	MAN	0030	3	102.394	1310 302 094	DAF	0180	3
102.349	1304 202 212	KAS	0300A	3	102.387	1310 302 001	IVE	0090	3	102.394	1310 302 094	VOL	0250	3
102.350	1304 202 178	MAN	0070A	3	102.387	1310 302 001	RVI	0130	3	102.394	1310 302 094	KAS	0280	3
102.350	1304 202 178	IVE	0110A	3	102.387	1310 302 001	DAF	0170	3	102.395	1310 302 097	MAN	0040	3
102.350	1304 202 178	RVI	0150A	3	102.387	1310 302 001	KAS	0270	3	102.395	1310 302 097	RVI	0140	3
102.350	1304 202 178	DAF	0220A	3	102.388	1310 302 025	MB	0010	3	102.395	1310 302 097	DAF	0180	3
102.351	1304 202 180	MAN	0070A	3	102.388	1310 302 025	MAN	0030	3	102.395	1310 302 097	VOL	0250	3
102.351	1304 202 180	IVE	0110A	3	102.388	1310 302 025	IVE	0090	3	102.395	1310 302 097	KAS	0280	3
102.351	1304 202 180	RVI	0150A	3	102.388	1310 302 025	RVI	0130	3	102.396	1310 302 089	MAN	0040	3
102.351	1304 202 180	DAF	0220A	3	102.388	1310 302 025	DAF	0170	3	102.396	1310 302 089	RVI	0140	3
102.352	1304 202 171	MAN	0070A	3	102.388	1310 302 025	KAS	0270	3	102.396	1310 302 089	DAF	0180	3
102.352	1304 202 171	IVE	0110A	3	102.389	1310 302 032	MB	0010	3	102.396	1310 302 089	VOL	0250	3
102.352	1304 202 171	RVI	0150A	3	102.389	1310 302 032	MAN	0030	3	102.396	1310 302 089	KAS	0280	3
102.352	1304 202 171	DAF	0220A	3	102.389	1310 302 032	IVE	0090	3	102.397	1310 302 088	MAN	0040	3
102.353	1304 202 175	MAN	0070A	3	102.389	1310 302 032	RVI	0130	3	102.397	1310 302 088	RVI	0140	3
102.353	1304 202 175	IVE	0110A	3	102.389	1310 302 032	DAF	0170	3	102.397	1310 302 088	DAF	0180	3
102.353	1304 202 175	RVI	0150A	3	102.389	1310 302 032	KAS	0270	3	102.397	1310 302 088	VOL	0250	3
102.353	1304 202 175	DAF	0220A	3	102.390	1310 302 026	MB	0010	3	102.397	1310 302 088	KAS	0280	3
102.354	1304 202 170	MAN	0070A	3	102.390	1310 302 026	MAN	0030	3	102.398	1310 302 090	MAN	0040	3
102.354	1304 202 170	IVE	0110A	3	102.390	1310 302 026	IVE	0090	3	102.398	1310 302 090	RVI	0140	3
102.354	1304 202 170	RVI	0150A	3	102.390	1310 302 026	RVI	0130	3	102.398	1310 302 090	DAF	0180	3
102.354	1304 202 170	DAF	0220A	3	102.390	1310 302 026	DAF	0170	3	102.398	1310 302 090	VOL	0250	3
102.355	1304 202 245	MAN	0070A	3	102.390	1310 302 026	KAS	0270	3	102.398	1310 302 090	KAS	0280	3

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102.399	1310 302 096	MAN	0040	3	103.196	1310 304 189	DAF	0180	25	105.191	1310 303 076	MB	0010	52
102.399	1310 302 096	RVI	0140	3	103.196	1310 304 189	VOL	0250	25	105.191	1310 303 076	MAN	0030	52
102.399	1310 302 096	DAF	0180	3	103.196	1310 304 189	KAS	0280	25	105.191	1310 303 076	IVE	0090	52
102.399	1310 302 096	VOL	0250	3	105.099	1304 303 277	MAN	0080A	43	105.191	1310 303 076	RVI	0130	52
102.399	1310 302 096	KAS	0280	3	105.099	1304 303 277	IVE	0120A	43	105.191	1310 303 076	DAF	0170	52
102.400	1310 302 092	MAN	0040	3	105.099	1304 303 277	RVI	0160A	43	105.191	1310 303 076	KAS	0270	52
102.400	1310 302 092	RVI	0140	3	105.099	1304 303 277	DAF	0230A	43	105.192	1310 303 053	MAN	0040	52
102.400	1310 302 092	DAF	0180	3	105.111	1304 303 279	MAN	0080A	43	105.192	1310 303 053	RVI	0140	52
102.400	1310 302 092	VOL	0250	3	105.111	1304 303 279	IVE	0120A	43	105.192	1310 303 053	DAF	0180	52
102.400	1310 302 092	KAS	0280	3	105.111	1304 303 279	RVI	0160A	43	105.192	1310 303 053	VOL	0250	52
102.401	1310 302 082	MAN	0040	3	105.111	1304 303 279	DAF	0230A	43	105.192	1310 303 053	KAS	0280	52
102.401	1310 302 082	RVI	0140	3	105.115	1304 303 276	MAN	0080A	43	107.138	1308 332 004	MB	0020B	2
102.401	1310 302 082	DAF	0180	3	105.115	1304 303 276	IVE	0120A	43	107.138	1308 332 004	DAF	0210B	2
102.401	1310 302 082	VOL	0250	3	105.115	1304 303 276	RVI	0160A	43	107.138	1308 332 004	VOL	0260B	2
102.401	1310 302 082	KAS	0280	3	105.115	1304 303 276	DAF	0230A	43	107.156	1304 305 030	MB	0020A	40
103.129	1304 304 630	MAN	0080A	23	105.183	1304 303 119	MAN	0050A	41	107.156	1304 305 030	MAN	0050A	43
103.129	1304 304 630	IVE	0120A	23	105.183	1304 303 119	DAF	0190A	41	107.156	1304 305 030	MAN	0060A	39
103.129	1304 304 630	RVI	0160A	23	105.183	1304 303 119	KAS	0290A	41	107.156	1304 305 030	MAN	0070A	41
103.129	1304 304 630	DAF	0230A	23	105.184	1304 303 267	MAN	0070A	39	107.156	1304 305 030	MAN	0080A	45
103.137	1308 304 053	MB	0020A	24	105.184	1304 303 267	IVE	0110A	39	107.156	1304 305 030	IVE	0100A	39
103.137	1308 304 053	DAF	0210A	24	105.184	1304 303 267	RVI	0150A	39	107.156	1304 305 030	IVE	0110A	41
103.137	1308 304 053	VOL	0240	24	105.184	1304 303 267	DAF	0200A	38	107.156	1304 305 030	IVE	0120A	45
103.137	1308 304 053	VOL	0260A	24	105.184	1304 303 267	DAF	0220A	39	107.156	1304 305 030	RVI	0145A	39
103.190	1304 304 449	MAN	0050A	25	105.185	1304 303 322	MAN	0060A	38	107.156	1304 305 030	RVI	0150A	41
103.190	1304 304 449	MAN	0070A	25	105.185	1304 303 322	IVE	0100A	38	107.156	1304 305 030	RVI	0160A	45
103.190	1304 304 449	IVE	0110A	25	105.185	1304 303 322	RVI	0145A	38	107.156	1304 305 030	DAF	0190A	43
103.190	1304 304 449	RVI	0150A	25	105.185	1304 303 322	KAS	0300A	38	107.156	1304 305 030	DAF	0200A	40
103.190	1304 304 449	DAF	0190A	25	105.186	1304 303 291	MAN	0060A	35	107.156	1304 305 030	DAF	0210A	40
103.190	1304 304 449	DAF	0200A	25	105.186	1304 303 291	IVE	0100A	35	107.156	1304 305 030	DAF	0220A	41
103.190	1304 304 449	DAF	0220A	25	105.186	1304 303 291	RVI	0145A	35	107.156	1304 305 030	DAF	0230A	45
103.190	1304 304 449	KAS	0290A	25	105.186	1304 303 291	KAS	0300A	35	107.156	1304 305 030	VOL	0240	40
103.191	1304 304 604	MAN	0060A	14	105.187	1304 303 269	MAN	0070A	39	107.156	1304 305 030	VOL	0260A	40
103.191	1304 304 604	IVE	0100A	14	105.187	1304 303 269	IVE	0110A	39	107.156	1304 305 030	KAS	0290A	43
103.191	1304 304 604	RVI	0145A	14	105.187	1304 303 269	RVI	0150A	39	107.156	1304 305 030	KAS	0300A	39
103.191	1304 304 604	KAS	0300A	14	105.187	1304 303 269	DAF	0220A	39	107.157	1304 332 111	MAN	0060B	2
103.195	1311 304 248	MB	0010	27	105.188	1304 303 268	MAN	0070A	39	107.157	1304 332 111	MAN	0070B	2
103.195	1311 304 248	MAN	0030	27	105.188	1304 303 268	IVE	0110A	39	107.157	1304 332 111	MAN	0070B	9
103.195	1311 304 248	IVE	0090	27	105.188	1304 303 268	RVI	0150A	39	107.157	1304 332 111	MAN	0080B	2
103.195	1311 304 248	RVI	0130	27	105.188	1304 303 268	DAF	0220A	39	107.157	1304 332 111	IVE	0100B	2
103.195	1311 304 248	DAF	0170	27	105.189	1308 303 022	MB	0020A	38	107.157	1304 332 111	IVE	0110B	2
103.195	1311 304 248	KAS	0270	27	105.189	1308 303 022	DAF	0210A	38	107.157	1304 332 111	IVE	0110B	9
103.196	1310 304 189	MAN	0040	25	105.189	1308 303 022	VOL	0240	38	107.157	1304 332 111	IVE	0120B	2
103.196	1310 304 189	RVI	0140	25	105.189	1308 303 022	VOL	0260A	38	107.157	1304 332 111	RVI	0145B	2

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107.157	1304 332 111	RVI	0150B	2	109.136	1308 304 051	DAF	0210A	27	109.173	1304 232 085	RVI	0160B	19
107.157	1304 332 111	RVI	0150B	9	109.136	1308 304 051	VOL	0240	27	109.173	1304 232 085	DAF	0200B	19
107.157	1304 332 111	RVI	0160B	2	109.136	1308 304 051	VOL	0260A	27	109.173	1304 232 085	DAF	0220B	26
107.157	1304 332 111	DAF	0200B	2	109.137	1308 304 077	MB	0020A	17	109.173	1304 232 085	DAF	0230B	19
107.157	1304 332 111	DAF	0220B	2	109.137	1308 304 077	DAF	0210A	17	109.173	1304 232 085	KAS	0300B	19
107.157	1304 332 111	DAF	0220B	9	109.137	1308 304 077	VOL	0240	17	109.176	1312 304 106	MB	0010	31
107.157	1304 332 111	DAF	0230B	2	109.137	1308 304 077	VOL	0260A	17	109.176	1312 304 106	MAN	0030	31
107.157	1304 332 111	KAS	0300B	2	109.169	1304 302 188	MAN	0080A	5	109.176	1312 304 106	MAN	0040	28
107.201	1310 305 001	MB	0010	56	109.169	1304 302 188	IVE	0120A	5	109.176	1312 304 106	IVE	0090	31
107.201	1310 305 001	MAN	0030	56	109.169	1304 302 188	RVI	0160A	5	109.176	1312 304 106	RVI	0130	31
107.201	1310 305 001	MAN	0040	56	109.169	1304 302 188	DAF	0230A	5	109.176	1312 304 106	RVI	0140	28
107.201	1310 305 001	IVE	0090	56	109.170	1304 304 012	MAN	0080A	15	109.176	1312 304 106	DAF	0170	31
107.201	1310 305 001	RVI	0130	56	109.170	1304 304 012	IVE	0120A	15	109.176	1312 304 106	DAF	0180	28
107.201	1310 305 001	RVI	0140	56	109.170	1304 304 012	RVI	0160A	15	109.176	1312 304 106	VOL	0250	28
107.201	1310 305 001	DAF	0170	56	109.170	1304 304 012	DAF	0230A	15	109.176	1312 304 106	KAS	0270	31
107.201	1310 305 001	DAF	0180	56	109.171	1304 304 408	MAN	0050A	17	109.176	1312 304 106	KAS	0280	28
107.201	1310 305 001	VOL	0250	56	109.171	1304 304 408	MAN	0070A	17	109.183	1304 332 075	MAN	0050B	18
107.201	1310 305 001	KAS	0270	56	109.171	1304 304 408	MAN	0080A	26	109.183	1304 332 075	MAN	0060B	18
107.201	1310 305 001	KAS	0280	56	109.171	1304 304 408	IVE	0110A	17	109.183	1304 332 075	MAN	0070B	25
107.203	1304 332 070	MAN	0050B	2	109.171	1304 304 408	IVE	0120A	26	109.183	1304 332 075	MAN	0080B	18
107.203	1304 332 070	DAF	0190B	2	109.171	1304 304 408	RVI	0150A	17	109.183	1304 332 075	IVE	0100B	18
107.203	1304 332 070	KAS	0290B	2	109.171	1304 304 408	RVI	0160A	26	109.183	1304 332 075	IVE	0110B	25
109.132	1313 304 009	MAN	0040	35	109.171	1304 304 408	DAF	0190A	17	109.183	1304 332 075	IVE	0120B	18
109.132	1313 304 009	RVI	0140	35	109.171	1304 304 408	DAF	0200A	17	109.183	1304 332 075	RVI	0145B	18
109.132	1313 304 009	DAF	0180	35	109.171	1304 304 408	DAF	0220A	17	109.183	1304 332 075	RVI	0150B	25
109.132	1313 304 009	VOL	0250	35	109.171	1304 304 408	DAF	0230A	26	109.183	1304 332 075	RVI	0160B	18
109.132	1313 304 009	KAS	0280	35	109.171	1304 304 408	KAS	0290A	17	109.183	1304 332 075	DAF	0190B	18
109.134	1312 304 027	MB	0010	19	109.172	1304 304 007	MAN	0060A	25	109.183	1304 332 075	DAF	0220B	25
109.134	1312 304 027	MAN	0030	19	109.172	1304 304 007	MAN	0080A	33	109.183	1304 332 075	DAF	0230B	18
109.134	1312 304 027	MAN	0040	19	109.172	1304 304 007	IVE	0100A	25	109.183	1304 332 075	KAS	0290B	18
109.134	1312 304 027	IVE	0090	19	109.172	1304 304 007	IVE	0120A	33	109.183	1304 332 075	KAS	0300B	18
109.134	1312 304 027	RVI	0130	19	109.172	1304 304 007	RVI	0145A	25	109.390	1304 304 445	MAN	0050A	28
109.134	1312 304 027	RVI	0140	19	109.172	1304 304 007	RVI	0160A	33	109.390	1304 304 445	DAF	0190A	28
109.134	1312 304 027	DAF	0170	19	109.172	1304 304 007	DAF	0230A	33	109.390	1304 304 445	KAS	0290A	28
109.134	1312 304 027	DAF	0180	19	109.172	1304 304 007	KAS	0300A	25	109.391	1304 304 660	MAN	0050A	5
109.134	1312 304 027	VOL	0250	19	109.173	1304 232 085	MAN	0060B	19	109.391	1304 304 660	MAN	0070A	5
109.134	1312 304 027	KAS	0270	19	109.173	1304 232 085	MAN	0070B	26	109.391	1304 304 660	IVE	0110A	5
109.134	1312 304 027	KAS	0280	19	109.173	1304 232 085	MAN	0080B	19	109.391	1304 304 660	RVI	0150A	5
109.135	1308 304 078	MB	0020A	5	109.173	1304 232 085	IVE	0100B	19	109.391	1304 304 660	DAF	0190A	5
109.135	1308 304 078	DAF	0210A	5	109.173	1304 232 085	IVE	0110B	26	109.391	1304 304 660	DAF	0200A	5
109.135	1308 304 078	VOL	0240	5	109.173	1304 232 085	IVE	0120B	19	109.391	1304 304 660	DAF	0220A	5
109.135	1308 304 078	VOL	0260A	5	109.173	1304 232 085	RVI	0145B	19	109.391	1304 304 660	KAS	0290A	5
109.136	1308 304 051	MB	0020A	27	109.173	1304 232 085	RVI	0150B	26	109.392	1311 304 015	MAN	0060A	17

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109.392	1311 304 015	RVI	0145A	17	109.401	1310 302 024	MAN	0030	5	117.377	1304 304 050	MAN	0050A	14
109.392	1311 304 015	KAS	0300A	17	109.401	1310 302 024	IVE	0090	5	117.377	1304 304 050	MAN	0070A	14
109.393	1304 233 013	MAN	0060B	18	109.401	1310 302 024	RVI	0130	5	117.377	1304 304 050	IVE	0110A	14
109.393	1304 233 013	MAN	0070B	25	109.401	1310 302 024	DAF	0170	5	117.377	1304 304 050	RVI	0150A	14
109.393	1304 233 013	MAN	0080B	18	109.401	1310 302 024	KAS	0270	5	117.377	1304 304 050	DAF	0190A	14
109.393	1304 233 013	IVE	0100B	18	109.402	1311 304 009	MB	0010	10	117.377	1304 304 050	DAF	0200A	14
109.393	1304 233 013	IVE	0110B	25	109.402	1311 304 009	MAN	0030	10	117.377	1304 304 050	DAF	0220A	14
109.393	1304 233 013	IVE	0120B	18	109.402	1311 304 009	IVE	0090	10	117.377	1304 304 050	KAS	0290A	14
109.393	1304 233 013	RVI	0145B	18	109.402	1311 304 009	RVI	0130	10	117.378	1304 304 568	DAF	0200A	26
109.393	1304 233 013	RVI	0150B	25	109.402	1311 304 009	DAF	0170	10	117.379	0730 162 428	MB	0020A	15
109.393	1304 233 013	RVI	0160B	18	109.402	1311 304 009	KAS	0270	10	117.379	0730 162 428	DAF	0210A	15
109.393	1304 233 013	DAF	0220B	25	109.403	1310 302 045	MAN	0040	5	117.379	0730 162 428	VOL	0240	15
109.393	1304 233 013	DAF	0230B	18	109.403	1310 302 045	RVI	0140	5	117.379	0730 162 428	VOL	0260A	15
109.393	1304 233 013	KAS	0300B	18	109.403	1310 302 045	DAF	0180	5	117.384	1311 304 124	MB	0010	16
109.394	1308 232 010	MB	0020B	19	109.403	1310 302 045	VOL	0250	5	117.384	1311 304 124	MAN	0030	16
109.394	1308 232 010	DAF	0210B	19	109.403	1310 302 045	KAS	0280	5	117.384	1311 304 124	IVE	0090	16
109.394	1308 232 010	VOL	0260B	19	109.404	1310 304 161	MAN	0040	10	117.384	1311 304 124	RVI	0130	16
109.395	1304 302 425	MAN	0060A	9	109.404	1310 304 161	RVI	0140	10	117.384	1311 304 124	DAF	0170	16
109.395	1304 302 425	IVE	0100A	9	109.404	1310 304 161	DAF	0180	10	117.384	1311 304 124	KAS	0270	16
109.395	1304 302 425	RVI	0145A	9	109.404	1310 304 161	VOL	0250	10	119.072	1238 304 420	MAN	0050A	29
109.395	1304 302 425	KAS	0300A	9	109.404	1310 304 161	KAS	0280	10	119.072	1238 304 420	DAF	0190A	29
109.396	1304 202 214	MAN	0060A	5	109.407	1304 304 623	DAF	0220A	44	119.072	1238 304 420	KAS	0290A	29
109.396	1304 202 214	IVE	0100A	5	109.407	1304 304 623	DAF	0230A	48	119.085	1296 333 022	MAN	0060B	13
109.396	1304 202 214	RVI	0145A	5	111.175	0730 505 053	MAN	0050B	11	119.085	1296 333 022	MAN	0070B	20
109.396	1304 202 214	KAS	0300A	5	111.175	0730 505 053	MAN	0060B	11	119.085	1296 333 022	MAN	0080B	13
109.397	1304 313 133	MAN	0050B	19	111.175	0730 505 053	IVE	0100B	11	119.085	1296 333 022	IVE	0100B	13
109.397	1304 313 133	MAN	0060B	19	111.175	0730 505 053	RVI	0145B	11	119.085	1296 333 022	IVE	0110B	20
109.397	1304 313 133	MAN	0080B	19	111.175	0730 505 053	DAF	0190B	11	119.085	1296 333 022	IVE	0120B	13
109.397	1304 313 133	IVE	0100B	19	111.175	0730 505 053	KAS	0290B	11	119.085	1296 333 022	RVI	0145B	13
109.397	1304 313 133	IVE	0120B	19	111.175	0730 505 053	KAS	0300B	11	119.085	1296 333 022	RVI	0150B	20
109.397	1304 313 133	RVI	0145B	19	111.264	0730 505 140	MAN	0070B	18	119.085	1296 333 022	RVI	0160B	13
109.397	1304 313 133	RVI	0160B	19	111.264	0730 505 140	MAN	0080B	11	119.085	1296 333 022	DAF	0200B	13
109.397	1304 313 133	DAF	0190B	19	111.264	0730 505 140	IVE	0110B	18	119.085	1296 333 022	DAF	0220B	20
109.397	1304 313 133	DAF	0230B	19	111.264	0730 505 140	IVE	0120B	11	119.085	1296 333 022	DAF	0230B	13
109.397	1304 313 133	KAS	0290B	19	111.264	0730 505 140	RVI	0150B	18	119.085	1296 333 022	KAS	0300B	13
109.397	1304 313 133	KAS	0300B	19	111.264	0730 505 140	RVI	0160B	11	119.116	1308 304 070	MB	0020A	18
109.400	1310 302 023	MB	0010	5	111.264	0730 505 140	DAF	0200B	11	119.116	1308 304 070	DAF	0210A	18
109.400	1310 302 023	MAN	0030	5	111.264	0730 505 140	DAF	0220B	18	119.116	1308 304 070	VOL	0240	18
109.400	1310 302 023	IVE	0090	5	111.264	0730 505 140	DAF	0230B	11	119.116	1308 304 070	VOL	0260A	18
109.400	1310 302 023	RVI	0130	5	111.265	0730 505 092	MAN	0080B	11	119.117	1308 304 097	MB	0020A	6
109.400	1310 302 023	DAF	0170	5	111.265	0730 505 092	IVE	0120B	11	119.117	1308 304 097	DAF	0210A	6
109.400	1310 302 023	KAS	0270	5	111.265	0730 505 092	RVI	0160B	11	119.117	1308 304 097	VOL	0240	6

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119.117	1308 304 097	VOL	0260A	6	119.142	1268 304 594	DAF	0210B	14	119.151	1304 304 542	KAS	0290A	18
119.118	1268 304 445	MB	0020B	14	119.142	1268 304 594	VOL	0250	7	119.152	1268 304 424	MB	0010	32
119.118	1268 304 445	MAN	0040	7	119.142	1268 304 594	VOL	0260B	14	119.152	1268 304 424	MAN	0030	32
119.118	1268 304 445	MAN	0060A	18	119.142	1268 304 594	KAS	0280	7	119.152	1268 304 424	MAN	0040	29
119.118	1268 304 445	IVE	0100A	18	119.142	1268 304 594	KAS	0300A	18	119.152	1268 304 424	IVE	0090	32
119.118	1268 304 445	RVI	0140	7	119.144	1268 304 525	MB	0010	34	119.152	1268 304 424	RVI	0130	32
119.118	1268 304 445	RVI	0145A	18	119.144	1268 304 525	MAN	0030	34	119.152	1268 304 424	RVI	0140	29
119.118	1268 304 445	DAF	0180	7	119.144	1268 304 525	MAN	0040	31	119.152	1268 304 424	DAF	0170	32
119.118	1268 304 445	DAF	0210B	14	119.144	1268 304 525	IVE	0090	34	119.152	1268 304 424	DAF	0180	29
119.118	1268 304 445	VOL	0250	7	119.144	1268 304 525	RVI	0130	34	119.152	1268 304 424	VOL	0250	29
119.118	1268 304 445	VOL	0260B	14	119.144	1268 304 525	RVI	0140	31	119.152	1268 304 424	KAS	0270	32
119.118	1268 304 445	KAS	0280	7	119.144	1268 304 525	DAF	0170	34	119.152	1268 304 424	KAS	0280	29
119.118	1268 304 445	KAS	0300A	18	119.144	1268 304 525	DAF	0180	31	119.153	1268 304 494	MB	0010	33
119.119	1297 304 402	MB	0010	20	119.144	1268 304 525	VOL	0250	31	119.153	1268 304 494	MAN	0030	33
119.119	1297 304 402	MAN	0030	20	119.144	1268 304 525	KAS	0270	34	119.153	1268 304 494	MAN	0040	30
119.119	1297 304 402	MAN	0040	20	119.144	1268 304 525	KAS	0280	31	119.153	1268 304 494	IVE	0090	33
119.119	1297 304 402	IVE	0090	20	119.149	1304 304 496	MAN	0080A	6	119.153	1268 304 494	RVI	0130	33
119.119	1297 304 402	RVI	0130	20	119.149	1304 304 496	IVE	0120A	6	119.153	1268 304 494	RVI	0140	30
119.119	1297 304 402	RVI	0140	20	119.149	1304 304 496	RVI	0160A	6	119.153	1268 304 494	DAF	0170	33
119.119	1297 304 402	DAF	0170	20	119.149	1304 304 496	DAF	0230A	6	119.153	1268 304 494	DAF	0180	30
119.119	1297 304 402	DAF	0180	20	119.150	1304 304 014	MAN	0050A	6	119.153	1268 304 494	VOL	0250	30
119.119	1297 304 402	VOL	0250	20	119.150	1304 304 014	MAN	0070A	6	119.153	1268 304 494	KAS	0270	33
119.119	1297 304 402	KAS	0270	20	119.150	1304 304 014	MAN	0080A	16	119.153	1268 304 494	KAS	0280	30
119.119	1297 304 402	KAS	0280	20	119.150	1304 304 014	IVE	0110A	6	119.157	1304 333 005	MAN	0050B	13
119.122	1297 304 401	MAN	0040	36	119.150	1304 304 014	IVE	0120A	16	119.157	1304 333 005	MAN	0060B	13
119.122	1297 304 401	RVI	0140	36	119.150	1304 304 014	RVI	0150A	6	119.157	1304 333 005	MAN	0070B	20
119.122	1297 304 401	DAF	0180	36	119.150	1304 304 014	RVI	0160A	16	119.157	1304 333 005	MAN	0080B	13
119.122	1297 304 401	VOL	0250	36	119.150	1304 304 014	DAF	0190A	6	119.157	1304 333 005	IVE	0100B	13
119.122	1297 304 401	KAS	0280	36	119.150	1304 304 014	DAF	0200A	6	119.157	1304 333 005	IVE	0110B	20
119.138	1290 304 473	MAN	0050A	29	119.150	1304 304 014	DAF	0220A	6	119.157	1304 333 005	IVE	0120B	13
119.138	1290 304 473	DAF	0190A	29	119.150	1304 304 014	DAF	0230A	16	119.157	1304 333 005	RVI	0145B	13
119.138	1290 304 473	KAS	0290A	29	119.150	1304 304 014	KAS	0290A	6	119.157	1304 333 005	RVI	0150B	20
119.141	1308 304 096	MB	0020A	18	119.151	1304 304 542	MAN	0050A	18	119.157	1304 333 005	RVI	0160B	13
119.141	1308 304 096	DAF	0210A	18	119.151	1304 304 542	MAN	0070A	18	119.157	1304 333 005	DAF	0190B	13
119.141	1308 304 096	VOL	0240	18	119.151	1304 304 542	MAN	0080A	27	119.157	1304 333 005	DAF	0220B	20
119.141	1308 304 096	VOL	0260A	18	119.151	1304 304 542	IVE	0110A	18	119.157	1304 333 005	DAF	0230B	13
119.142	1268 304 594	MB	0020B	14	119.151	1304 304 542	IVE	0120A	27	119.157	1304 333 005	KAS	0290B	13
119.142	1268 304 594	MAN	0040	7	119.151	1304 304 542	RVI	0150A	18	119.157	1304 333 005	KAS	0300B	13
119.142	1268 304 594	MAN	0060A	18	119.151	1304 304 542	RVI	0160A	27	119.166	1297 304 485	MAN	0040	36
119.142	1268 304 594	IVE	0100A	18	119.151	1304 304 542	DAF	0190A	18	119.166	1297 304 485	RVI	0140	36
119.142	1268 304 594	RVI	0140	7	119.151	1304 304 542	DAF	0200A	18	119.166	1297 304 485	DAF	0180	36
119.142	1268 304 594	RVI	0145A	18	119.151	1304 304 542	DAF	0220A	18	119.166	1297 304 485	VOL	0250	36
119.142	1268 304 594	DAF	0180	7	119.151	1304 304 542	DAF	0230A	27	119.166	1297 304 485	KAS	0280	36

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119.167	1297 304 484	MB	0010	20	119.171	1304 333 021	RVI	0150B	20	119.220	1311 304 255	RVI	0130	7
119.167	1297 304 484	MAN	0030	20	119.171	1304 333 021	RVI	0160B	13	119.220	1311 304 255	RVI	0145A	6
119.167	1297 304 484	MAN	0040	20	119.171	1304 333 021	DAF	0190B	13	119.220	1311 304 255	DAF	0170	7
119.167	1297 304 484	IVE	0090	20	119.171	1304 333 021	DAF	0220B	20	119.220	1311 304 255	KAS	0270	7
119.167	1297 304 484	RVI	0130	20	119.171	1304 333 021	DAF	0230B	13	119.220	1311 304 255	KAS	0300A	6
119.167	1297 304 484	RVI	0140	20	119.171	1304 333 021	KAS	0290B	13	119.221	1290 304 350	DAF	0220A	45
119.167	1297 304 484	DAF	0170	20	119.171	1304 333 021	KAS	0300B	13	119.221	1290 304 350	DAF	0230A	49
119.167	1297 304 484	DAF	0180	20	119.172	1296 333 045	MAN	0060B	13	119.222	6002 306 154	DAF	0220A	46
119.167	1297 304 484	VOL	0250	20	119.172	1296 333 045	MAN	0070B	20	119.222	6002 306 154	DAF	0230A	50
119.167	1297 304 484	KAS	0270	20	119.172	1296 333 045	MAN	0080B	13	119.223	1290 304 438	DAF	0220A	47
119.167	1297 304 484	KAS	0280	20	119.172	1296 333 045	IVE	0100B	13	119.223	1290 304 438	DAF	0230A	51
119.169	1304 304 683	MAN	0050A	6	119.172	1296 333 045	IVE	0110B	20	123.210	1304 332 178	MAN	0070B	15
119.169	1304 304 683	MAN	0070A	6	119.172	1296 333 045	IVE	0120B	13	123.210	1304 332 178	MAN	0080B	8
119.169	1304 304 683	MAN	0080A	16	119.172	1296 333 045	RVI	0145B	13	123.210	1304 332 178	IVE	0110B	15
119.169	1304 304 683	IVE	0110A	6	119.172	1296 333 045	RVI	0150B	20	123.210	1304 332 178	IVE	0120B	8
119.169	1304 304 683	IVE	0120A	16	119.172	1296 333 045	RVI	0160B	13	123.210	1304 332 178	RVI	0150B	15
119.169	1304 304 683	RVI	0150A	6	119.172	1296 333 045	DAF	0200B	13	123.210	1304 332 178	RVI	0160B	8
119.169	1304 304 683	RVI	0160A	16	119.172	1296 333 045	DAF	0220B	20	123.210	1304 332 178	DAF	0200B	8
119.169	1304 304 683	DAF	0190A	6	119.172	1296 333 045	DAF	0230B	13	123.210	1304 332 178	DAF	0220B	15
119.169	1304 304 683	DAF	0200A	6	119.172	1296 333 045	KAS	0300B	13	123.210	1304 332 178	DAF	0230B	8
119.169	1304 304 683	DAF	0220A	6	119.173	1304 304 680	MAN	0080A	6	123.218	1308 332 026	MB	0020B	9
119.169	1304 304 683	DAF	0230A	16	119.173	1304 304 680	IVE	0120A	6	123.218	1308 332 026	DAF	0210B	9
119.169	1304 304 683	KAS	0290A	6	119.173	1304 304 680	RVI	0160A	6	123.218	1308 332 026	VOL	0260B	9
119.170	1304 304 681	MAN	0050A	18	119.173	1304 304 680	DAF	0230A	6	123.219	1304 332 043	MAN	0080B	8
119.170	1304 304 681	MAN	0070A	18	119.174	1308 304 072	MB	0020A	6	123.219	1304 332 043	IVE	0120B	8
119.170	1304 304 681	MAN	0080A	27	119.174	1308 304 072	DAF	0210A	6	123.219	1304 332 043	RVI	0160B	8
119.170	1304 304 681	IVE	0110A	18	119.174	1308 304 072	VOL	0240	6	123.219	1304 332 043	DAF	0230B	8
119.170	1304 304 681	IVE	0120A	27	119.174	1308 304 072	VOL	0260A	6	123.264	1304 332 072	MAN	0050B	8
119.170	1304 304 681	RVI	0150A	18	119.219	1311 304 076	MB	0010	7	123.264	1304 332 072	DAF	0190B	8
119.170	1304 304 681	RVI	0160A	27	119.219	1311 304 076	MAN	0030	7	123.264	1304 332 072	KAS	0290B	8
119.170	1304 304 681	DAF	0190A	18	119.219	1311 304 076	MAN	0060A	6	123.265	1304 332 122	MAN	0060B	8
119.170	1304 304 681	DAF	0200A	18	119.219	1311 304 076	IVE	0090	7	123.265	1304 332 122	IVE	0100B	8
119.170	1304 304 681	DAF	0220A	18	119.219	1311 304 076	IVE	0100A	6	123.265	1304 332 122	RVI	0145B	8
119.170	1304 304 681	DAF	0230A	27	119.219	1311 304 076	RVI	0130	7	123.265	1304 332 122	KAS	0300B	8
119.170	1304 304 681	KAS	0290A	18	119.219	1311 304 076	RVI	0145A	6	123.266	1304 332 134	MAN	0080B	8
119.171	1304 333 021	MAN	0050B	13	119.219	1311 304 076	DAF	0170	7	123.266	1304 332 134	IVE	0120B	8
119.171	1304 333 021	MAN	0060B	13	119.219	1311 304 076	KAS	0270	7	123.266	1304 332 134	RVI	0160B	8
119.171	1304 333 021	MAN	0070B	20	119.219	1311 304 076	KAS	0300A	6	123.266	1304 332 134	DAF	0230B	8
119.171	1304 333 021	MAN	0080B	13	119.220	1311 304 255	MB	0010	7	130.233	1246 203 008	MB	0010	53
119.171	1304 333 021	IVE	0100B	13	119.220	1311 304 255	MAN	0030	7	130.233	1246 203 008	MB	0020A	32
119.171	1304 333 021	IVE	0110B	20	119.220	1311 304 255	MAN	0060A	6	130.233	1246 203 008	MAN	0030	53
119.171	1304 333 021	IVE	0120B	13	119.220	1311 304 255	IVE	0090	7	130.233	1246 203 008	MAN	0040	53
119.171	1304 333 021	RVI	0145B	13	119.220	1311 304 255	IVE	0100A	6	130.233	1246 203 008	IVE	0090	53

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130.233	1246 203 008	RVI	0130	53	130.265	0735 340 080	IVE	0120B	9	130.314	0735 371 749	DAF	0220A	35
130.233	1246 203 008	RVI	0140	53	130.265	0735 340 080	RVI	0145B	9	130.314	0735 371 749	DAF	0230A	39
130.233	1246 203 008	DAF	0170	53	130.265	0735 340 080	RVI	0150B	16	130.314	0735 371 749	KAS	0290A	37
130.233	1246 203 008	DAF	0180	53	130.265	0735 340 080	RVI	0160B	9	130.315	0735 371 605	MAN	0050A	34
130.233	1246 203 008	DAF	0210A	32	130.265	0735 340 080	DAF	0190B	9	130.315	0735 371 605	MAN	0070A	32
130.233	1246 203 008	VOL	0240	32	130.265	0735 340 080	DAF	0220B	16	130.315	0735 371 605	MAN	0080A	36
130.233	1246 203 008	VOL	0250	53	130.265	0735 340 080	DAF	0230B	9	130.315	0735 371 605	IVE	0110A	32
130.233	1246 203 008	VOL	0260A	32	130.265	0735 340 080	KAS	0290B	9	130.315	0735 371 605	IVE	0120A	36
130.233	1246 203 008	KAS	0270	53	130.265	0735 340 080	KAS	0300B	9	130.315	0735 371 605	RVI	0150A	32
130.233	1246 203 008	KAS	0280	53	130.310	0750 116 165	MAN	0060B	9	130.315	0735 371 605	RVI	0160A	36
130.234	0750 117 083	MB	0010	47	130.310	0750 116 165	MAN	0070B	16	130.315	0735 371 605	DAF	0190A	34
130.234	0750 117 083	MAN	0030	47	130.310	0750 116 165	MAN	0080B	9	130.315	0735 371 605	DAF	0200A	31
130.234	0750 117 083	MAN	0040	47	130.310	0750 116 165	IVE	0100B	9	130.315	0735 371 605	DAF	0220A	32
130.234	0750 117 083	MAN	0050A	42	130.310	0750 116 165	IVE	0110B	16	130.315	0735 371 605	DAF	0230A	36
130.234	0750 117 083	MAN	0060A	36	130.310	0750 116 165	IVE	0120B	9	130.315	0735 371 605	KAS	0290A	34
130.234	0750 117 083	MAN	0070A	40	130.310	0750 116 165	RVI	0145B	9	130.683	0735 371 748	MAN	0050A	4
130.234	0750 117 083	MAN	0080A	44	130.310	0750 116 165	RVI	0150B	16	130.683	0735 371 748	MAN	0070A	4
130.234	0750 117 083	IVE	0090	47	130.310	0750 116 165	RVI	0160B	9	130.683	0735 371 748	IVE	0110A	4
130.234	0750 117 083	IVE	0100A	36	130.310	0750 116 165	DAF	0200B	9	130.683	0735 371 748	RVI	0150A	4
130.234	0750 117 083	IVE	0110A	40	130.310	0750 116 165	DAF	0220B	16	130.683	0735 371 748	DAF	0190A	4
130.234	0750 117 083	IVE	0120A	44	130.310	0750 116 165	DAF	0230B	9	130.683	0735 371 748	DAF	0200A	4
130.234	0750 117 083	RVI	0130	47	130.310	0750 116 165	KAS	0300B	9	130.683	0735 371 748	DAF	0220A	4
130.234	0750 117 083	RVI	0140	47	130.313	0750 117 079	MAN	0050A	2	130.683	0735 371 748	KAS	0290A	4
130.234	0750 117 083	RVI	0145A	36	130.313	0750 117 079	MAN	0070A	2	130.684	0735 371 599	MAN	0060A	28
130.234	0750 117 083	RVI	0150A	40	130.313	0750 117 079	MAN	0080A	2	130.684	0735 371 599	IVE	0100A	28
130.234	0750 117 083	RVI	0160A	44	130.313	0750 117 079	IVE	0110A	2	130.684	0735 371 599	RVI	0145A	28
130.234	0750 117 083	DAF	0170	47	130.313	0750 117 079	IVE	0120A	2	130.684	0735 371 599	KAS	0300A	28
130.234	0750 117 083	DAF	0180	47	130.313	0750 117 079	RVI	0150A	2	130.685	0735 371 096	MAN	0060A	31
130.234	0750 117 083	DAF	0190A	42	130.313	0750 117 079	RVI	0160A	2	130.685	0735 371 096	IVE	0100A	31
130.234	0750 117 083	DAF	0200A	39	130.313	0750 117 079	DAF	0190A	2	130.685	0735 371 096	RVI	0145A	31
130.234	0750 117 083	DAF	0220A	40	130.313	0750 117 079	DAF	0200A	2	130.685	0735 371 096	KAS	0300A	31
130.234	0750 117 083	DAF	0230A	44	130.313	0750 117 079	DAF	0220A	2	130.686	0750 117 312	MB	0020A	2
130.234	0750 117 083	VOL	0250	47	130.313	0750 117 079	DAF	0230A	2	130.686	0750 117 312	DAF	0210A	2
130.234	0750 117 083	KAS	0270	47	130.313	0750 117 079	KAS	0290A	2	130.686	0750 117 312	VOL	0240	2
130.234	0750 117 083	KAS	0280	47	130.314	0735 371 749	MAN	0050A	37	130.686	0750 117 312	VOL	0260A	2
130.234	0750 117 083	KAS	0290A	42	130.314	0735 371 749	MAN	0070A	35	130.687	0750 117 198	MB	0020A	39
130.234	0750 117 083	KAS	0300A	36	130.314	0735 371 749	MAN	0080A	39	130.687	0750 117 198	DAF	0210A	39
130.265	0735 340 080	MAN	0050B	9	130.314	0735 371 749	IVE	0110A	35	130.687	0750 117 198	VOL	0240	39
130.265	0735 340 080	MAN	0060B	9	130.314	0735 371 749	IVE	0120A	39	130.687	0750 117 198	VOL	0260A	39
130.265	0735 340 080	MAN	0070B	16	130.314	0735 371 749	RVI	0150A	35	130.688	0735 370 742	MB	0020A	34
130.265	0735 340 080	MAN	0080B	9	130.314	0735 371 749	RVI	0160A	39	130.688	0735 370 742	DAF	0210A	34
130.265	0735 340 080	IVE	0100B	9	130.314	0735 371 749	DAF	0190A	37	130.688	0735 370 742	VOL	0240	34
130.265	0735 340 080	IVE	0110B	16	130.314	0735 371 749	DAF	0200A	34	130.688	0735 370 742	VOL	0260A	34

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130.689	0635 338 090	MB	0020B	10	130.706	0750 117 518	KAS	0280	46	137.143	0735 358 192	IVE	0120A	46
130.689	0635 338 090	DAF	0210B	10	130.706	0750 117 518	KAS	0300A	2	137.143	0735 358 192	RVI	0145A	40
130.689	0635 338 090	VOL	0260B	10	137.074	0750 115 227	MAN	0050A	15	137.143	0735 358 192	RVI	0150A	42
130.690	0750 116 048	MAN	0050B	20	137.074	0750 115 227	MAN	0070A	15	137.143	0735 358 192	RVI	0160A	46
130.690	0750 116 048	MAN	0060B	20	137.074	0750 115 227	IVE	0110A	15	137.143	0735 358 192	DAF	0190A	44
130.690	0750 116 048	MAN	0070B	27	137.074	0750 115 227	RVI	0150A	15	137.143	0735 358 192	DAF	0200A	41
130.690	0750 116 048	MAN	0080B	20	137.074	0750 115 227	DAF	0190A	15	137.143	0735 358 192	DAF	0210A	41
130.690	0750 116 048	IVE	0100B	20	137.074	0750 115 227	DAF	0200A	15	137.143	0735 358 192	DAF	0220A	42
130.690	0750 116 048	IVE	0110B	27	137.074	0750 115 227	DAF	0220A	15	137.143	0735 358 192	DAF	0230A	46
130.690	0750 116 048	IVE	0120B	20	137.074	0750 115 227	KAS	0290A	15	137.143	0735 358 192	VOL	0240	41
130.690	0750 116 048	RVI	0145B	20	137.078	0735 320 493	MB	0010	17	137.143	0735 358 192	VOL	0260A	41
130.690	0750 116 048	RVI	0150B	27	137.078	0735 320 493	MAN	0030	17	137.143	0735 358 192	KAS	0290A	44
130.690	0750 116 048	RVI	0160B	20	137.078	0735 320 493	IVE	0090	17	137.143	0735 358 192	KAS	0300A	40
130.690	0750 116 048	DAF	0190B	20	137.078	0735 320 493	RVI	0130	17	137.144	0735 371 406	MAN	0080A	12
130.690	0750 116 048	DAF	0200B	20	137.078	0735 320 493	DAF	0170	17	137.144	0735 371 406	IVE	0120A	12
130.690	0750 116 048	DAF	0220B	27	137.078	0735 320 493	KAS	0270	17	137.144	0735 371 406	RVI	0160A	12
130.690	0750 116 048	DAF	0230B	20	137.142	0735 320 816	MAN	0050A	24	137.144	0735 371 406	DAF	0230A	12
130.690	0750 116 048	KAS	0290B	20	137.142	0735 320 816	MAN	0070A	24	137.145	0750 115 299	MAN	0080A	13
130.690	0750 116 048	KAS	0300B	20	137.142	0735 320 816	MAN	0080A	4	137.145	0750 115 299	IVE	0120A	13
130.704	0750 117 347	MB	0010	2	137.142	0735 320 816	MAN	0080A	22	137.145	0750 115 299	RVI	0160A	13
130.704	0750 117 347	MAN	0030	2	137.142	0735 320 816	MAN	0080A	24	137.145	0750 115 299	DAF	0230A	13
130.704	0750 117 347	IVE	0090	2	137.142	0735 320 816	IVE	0110A	24	137.146	0750 115 224	MAN	0080A	34
130.704	0750 117 347	RVI	0130	2	137.142	0735 320 816	IVE	0120A	4	137.146	0750 115 224	IVE	0120A	34
130.704	0750 117 347	DAF	0170	2	137.142	0735 320 816	IVE	0120A	22	137.146	0750 115 224	RVI	0160A	34
130.704	0750 117 347	KAS	0270	2	137.142	0735 320 816	IVE	0120A	24	137.146	0750 115 224	DAF	0230A	34
130.705	0735 370 730	MB	0010	45	137.142	0735 320 816	RVI	0150A	24	137.147	0750 115 225	MAN	0050A	32
130.705	0735 370 730	MAN	0030	45	137.142	0735 320 816	RVI	0160A	4	137.147	0750 115 225	MAN	0060A	26
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130.706	0750 117 518	MAN	0040	2	137.142	0735 320 816	DAF	0220A	24	137.147	0750 115 225	IVE	0120A	34
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130.706	0750 117 518	IVE	0100A	2	137.142	0735 320 816	DAF	0230A	24	137.147	0750 115 225	RVI	0160A	34
130.706	0750 117 518	RVI	0140	2	137.142	0735 320 816	KAS	0290A	24	137.147	0750 115 225	DAF	0190A	32
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130.706	0750 117 518	VOL	0250	2	137.143	0735 358 192	MAN	0080A	46	137.147	0750 115 225	KAS	0300A	26
130.706	0750 117 518	VOL	0250	46	137.143	0735 358 192	IVE	0100A	40	137.150	0750 117 232	MAN	0040	4
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137.257	0735 320 500	DAF	0190A 26	137.269	0735 321 543	MB	0010 14	137.274	0735 321 396	DAF	0180 14
137.257	0735 320 500	DAF	0220A 26	137.269	0735 321 543	MAN	0030 14	137.274	0735 321 396	VOL	0250 14
137.257	0735 320 500	KAS	0290A 26	137.269	0735 321 543	IVE	0090 14	137.274	0735 321 396	KAS	0280 14
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137.260	0750 115 430	MAN	0060A 23	137.270	0735 321 106	KAS	0270 26	137.276	0735 321 432	DAF	0180 39
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137.260	0750 115 430	IVE	0100A 23	137.271	0735 321 108	MB	0010 40	137.276	0735 321 432	VOL	0250 26
137.260	0750 115 430	RVI	0145A 13	137.271	0735 321 108	MAN	0030 40	137.276	0735 321 432	VOL	0250 39
137.260	0750 115 430	RVI	0145A 23	137.271	0735 321 108	IVE	0090 40	137.276	0735 321 432	KAS	0280 24
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137.262	0750 115 533	VOL	0240 29	137.272	0735 298 255	KAS	0270 43	139.553	1307 304 156	DAF	0210A 10
137.262	0750 115 533	VOL	0260A 29	137.273	0750 115 233	MB	0010 54	139.553	1307 304 156	VOL	0240 10
137.263	0735 321 012	MB	0020A 23	137.273	0750 115 233	MAN	0030 54	139.553	1307 304 156	VOL	0260A 10

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139.752	0501 316 333	DAF	0210B	27	141.061	1272 334 003	KAS	0290B	26	141.194	1290 306 066	DAF	0230B	23
139.752	0501 316 333	VOL	0260B	27	141.061	1272 334 003	KAS	0300B	26	141.194	1290 306 066	VOL	0250	15
139.753	0750 111 149	MB	0010	1	141.146	1268 312 057	MAN	0080B	27	141.194	1290 306 066	KAS	0270	15
139.753	0750 111 149	MB	0020A	1	141.146	1268 312 057	IVE	0120B	27	141.194	1290 306 066	KAS	0270	29
139.753	0750 111 149	MAN	0030	1	141.146	1268 312 057	RVI	0160B	27	141.194	1290 306 066	KAS	0270	46
139.753	0750 111 149	MAN	0050A	1	141.146	1268 312 057	DAF	0230B	27	141.194	1290 306 066	KAS	0280	15
139.753	0750 111 149	MAN	0070A	1	141.163	1297 306 120	MB	0020B	25	141.194	1290 306 066	KAS	0290B	22
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139.753	0750 111 149	RVI	0150A	1	141.194	1290 306 066	MAN	0030	15	141.195	1304 306 107	KAS	0300B	33
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139.753	0750 111 149	DAF	0170	1	141.194	1290 306 066	MAN	0030	46	143.116	1304 303 207	DAF	0190A	40
139.753	0750 111 149	DAF	0190A	1	141.194	1290 306 066	MAN	0040	15	143.116	1304 303 207	KAS	0290A	40
139.753	0750 111 149	DAF	0200A	1	141.194	1290 306 066	MAN	0050B	22	143.117	1304 303 230	MAN	0050A	40
139.753	0750 111 149	DAF	0210A	1	141.194	1290 306 066	MAN	0060B	22	143.117	1304 303 230	DAF	0190A	40
139.753	0750 111 149	DAF	0220A	1	141.194	1290 306 066	MAN	0060B	33	143.117	1304 303 230	KAS	0290A	40
139.753	0750 111 149	DAF	0230A	1	141.194	1290 306 066	MAN	0070B	30	143.118	1304 303 206	MAN	0050A	40
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139.754	0734 310 386	VOL	0250	1	141.194	1290 306 066	IVE	0120B	23	143.120	1304 303 289	MAN	0060A	37
139.754	0734 310 386	KAS	0280	1	141.194	1290 306 066	RVI	0130	15	143.120	1304 303 289	IVE	0100A	37
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141.061	1272 334 003	MAN	0060B	26	141.194	1290 306 066	RVI	0130	46	143.120	1304 303 289	KAS	0300A	37
141.061	1272 334 003	MAN	0070B	34	141.194	1290 306 066	RVI	0140	15	143.121	1304 303 292	MAN	0060A	34
141.061	1272 334 003	MAN	0080B	31	141.194	1290 306 066	RVI	0145B	22	143.121	1304 303 292	IVE	0100A	34
141.061	1272 334 003	IVE	0100B	26	141.194	1290 306 066	RVI	0145B	33	143.121	1304 303 292	RVI	0145A	34
141.061	1272 334 003	IVE	0110B	34	141.194	1290 306 066	RVI	0150B	30	143.121	1304 303 292	KAS	0300A	34
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141.061	1272 334 003	RVI	0150B	34	141.194	1290 306 066	DAF	0170	29	143.122	1304 303 209	RVI	0150A	38
141.061	1272 334 003	RVI	0160B	31	141.194	1290 306 066	DAF	0170	46	143.122	1304 303 209	DAF	0220A	38
141.061	1272 334 003	DAF	0190B	26	141.194	1290 306 066	DAF	0180	15	143.123	1304 303 286	MAN	0070A	38
141.061	1272 334 003	DAF	0200B	26	141.194	1290 306 066	DAF	0190B	22	143.123	1304 303 286	IVE	0110A	38
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143.124	1308 303 021	MB	0020A	37	145.521	1308 304 054	VOL	0260A	16	145.827	1304 304 582	RVI	0145A	16
143.124	1308 303 021	DAF	0210A	37	145.533	1304 304 358	MAN	0080A	32	145.827	1304 304 582	KAS	0300A	16
143.124	1308 303 021	VOL	0240	37	145.533	1304 304 358	IVE	0120A	32	145.828	1304 304 426	MAN	0070A	27
143.124	1308 303 021	VOL	0260A	37	145.533	1304 304 358	RVI	0160A	32	145.828	1304 304 426	IVE	0110A	27
143.125	1304 303 172	MAN	0070A	38	145.533	1304 304 358	DAF	0230A	32	145.828	1304 304 426	RVI	0150A	27
143.125	1304 303 172	IVE	0110A	38	145.817	1304 304 430	MAN	0050A	27	145.828	1304 304 426	DAF	0220A	27
143.125	1304 303 172	RVI	0150A	38	145.817	1304 304 430	DAF	0190A	27	145.829	1304 304 428	MAN	0070A	27
143.125	1304 303 172	DAF	0220A	38	145.817	1304 304 430	KAS	0290A	27	145.829	1304 304 428	IVE	0110A	27
145.478	1304 302 169	MAN	0080A	3	145.818	1304 304 463	MAN	0050A	16	145.829	1304 304 428	RVI	0150A	27
145.478	1304 302 169	IVE	0120A	3	145.818	1304 304 463	DAF	0190A	16	145.829	1304 304 428	DAF	0220A	27
145.478	1304 302 169	RVI	0160A	3	145.818	1304 304 463	KAS	0290A	16	145.830	1304 304 471	MAN	0070A	23
145.478	1304 302 169	DAF	0230A	3	145.819	1304 304 480	MAN	0050A	12	145.830	1304 304 471	IVE	0110A	23
145.479	1304 304 475	MAN	0080A	21	145.819	1304 304 480	DAF	0190A	12	145.830	1304 304 471	RVI	0150A	23
145.479	1304 304 475	IVE	0120A	21	145.819	1304 304 480	KAS	0290A	12	145.830	1304 304 471	DAF	0220A	23
145.479	1304 304 475	RVI	0160A	21	145.820	1304 304 461	MAN	0050A	16	145.831	1304 304 367	MAN	0070A	16
145.479	1304 304 475	DAF	0230A	21	145.820	1304 304 461	DAF	0190A	16	145.831	1304 304 367	IVE	0110A	16
145.480	1304 304 497	MAN	0080A	25	145.820	1304 304 461	KAS	0290A	16	145.831	1304 304 367	RVI	0150A	16
145.480	1304 304 497	IVE	0120A	25	145.821	1304 304 479	MAN	0050A	12	145.831	1304 304 367	DAF	0220A	16
145.480	1304 304 497	RVI	0160A	25	145.821	1304 304 479	DAF	0190A	12	145.832	1304 304 472	MAN	0070A	12
145.480	1304 304 497	DAF	0230A	25	145.821	1304 304 479	KAS	0290A	12	145.832	1304 304 472	IVE	0110A	12
145.481	1304 304 549	MAN	0080A	32	145.822	1304 304 478	MAN	0050A	12	145.832	1304 304 472	RVI	0150A	12
145.481	1304 304 549	IVE	0120A	32	145.822	1304 304 478	DAF	0190A	12	145.832	1304 304 472	DAF	0220A	12
145.481	1304 304 549	RVI	0160A	32	145.822	1304 304 478	KAS	0290A	12	145.833	1304 304 543	MAN	0070A	27
145.481	1304 304 549	DAF	0230A	32	145.823	1304 304 499	MAN	0070A	16	145.833	1304 304 543	IVE	0110A	27
145.516	1304 302 150	MAN	0080A	3	145.823	1304 304 499	IVE	0110A	16	145.833	1304 304 543	RVI	0150A	27
145.516	1304 302 150	IVE	0120A	3	145.823	1304 304 499	RVI	0150A	16	145.833	1304 304 543	DAF	0220A	27
145.516	1304 302 150	RVI	0160A	3	145.823	1304 304 499	DAF	0200A	16	145.834	1304 304 569	MAN	0070A	23
145.516	1304 302 150	DAF	0230A	3	145.823	1304 304 499	DAF	0220A	16	145.834	1304 304 569	IVE	0110A	23
145.518	1304 304 417	MAN	0080A	21	145.824	1304 304 500	MAN	0070A	12	145.834	1304 304 569	RVI	0150A	23
145.518	1304 304 417	IVE	0120A	21	145.824	1304 304 500	IVE	0110A	12	145.834	1304 304 569	DAF	0220A	23
145.518	1304 304 417	RVI	0160A	21	145.824	1304 304 500	RVI	0150A	12	145.835	1304 304 570	MAN	0070A	16
145.518	1304 304 417	DAF	0230A	21	145.824	1304 304 500	DAF	0200A	12	145.835	1304 304 570	IVE	0110A	16
145.519	1304 304 422	MAN	0080A	25	145.824	1304 304 500	DAF	0220A	12	145.835	1304 304 570	RVI	0150A	16
145.519	1304 304 422	IVE	0120A	25	145.825	1304 304 581	MAN	0060A	16	145.835	1304 304 570	DAF	0220A	16
145.519	1304 304 422	RVI	0160A	25	145.825	1304 304 581	IVE	0100A	16	145.836	1304 304 571	MAN	0070A	12
145.519	1304 304 422	DAF	0230A	25	145.825	1304 304 581	RVI	0145A	16	145.836	1304 304 571	IVE	0110A	12
145.520	1304 304 376	MAN	0080A	32	145.825	1304 304 581	KAS	0300A	16	145.836	1304 304 571	RVI	0150A	12
145.520	1304 304 376	IVE	0120A	32	145.826	1308 304 064	MB	0020A	13	145.836	1304 304 571	DAF	0220A	12
145.520	1304 304 376	RVI	0160A	32	145.826	1308 304 064	DAF	0210A	13	145.837	1308 304 086	MB	0020A	26
145.520	1304 304 376	DAF	0230A	32	145.826	1308 304 064	VOL	0240	13	145.837	1308 304 086	DAF	0210A	26
145.521	1308 304 054	MB	0020A	16	145.826	1308 304 064	VOL	0260A	13	145.837	1308 304 086	VOL	0240	26
145.521	1308 304 054	DAF	0210A	16	145.827	1304 304 582	MAN	0060A	16	145.837	1308 304 086	VOL	0260A	26

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145.838	1308 304 057	DAF	0210A 22	145.891	1310 304 124	IVE	0090 25	145.899	1310 304 185	DAF	0180 23
145.838	1308 304 057	VOL	0240 22	145.891	1310 304 124	RVI	0130 25	145.899	1310 304 185	VOL	0250 23
145.838	1308 304 057	VOL	0260A 22	145.891	1310 304 124	DAF	0170 25	145.899	1310 304 185	KAS	0280 23
145.839	1304 304 365	MAN	0070A 12	145.891	1310 304 124	KAS	0270 25	145.900	1310 304 196	MAN	0040 27
145.839	1304 304 365	IVE	0110A 12	145.892	1310 304 012	MB	0010 30	145.900	1310 304 196	RVI	0140 27
145.839	1304 304 365	RVI	0150A 12	145.892	1310 304 012	MAN	0030 30	145.900	1310 304 196	DAF	0180 27
145.839	1304 304 365	DAF	0220A 12	145.892	1310 304 012	IVE	0090 30	145.900	1310 304 196	VOL	0250 27
145.840	1304 304 369	MAN	0070A 23	145.892	1310 304 012	RVI	0130 30	145.900	1310 304 196	KAS	0280 27
145.840	1304 304 369	IVE	0110A 23	145.892	1310 304 012	DAF	0170 30	145.901	1310 304 182	MAN	0040 41
145.840	1304 304 369	RVI	0150A 23	145.892	1310 304 012	KAS	0270 30	145.901	1310 304 182	RVI	0140 41
145.840	1304 304 369	DAF	0220A 23	145.893	1310 304 011	MB	0010 41	145.901	1310 304 182	DAF	0180 41
145.886	1310 304 091	MB	0010 13	145.893	1310 304 011	MAN	0030 41	145.901	1310 304 182	VOL	0250 41
145.886	1310 304 091	MAN	0030 13	145.893	1310 304 011	IVE	0090 41	145.901	1310 304 182	KAS	0280 41
145.886	1310 304 091	IVE	0090 13	145.893	1310 304 011	RVI	0130 41	146.394	1304 303 273	MAN	0080A 40
145.886	1310 304 091	RVI	0130 13	145.893	1310 304 011	DAF	0170 41	146.394	1304 303 273	IVE	0120A 40
145.886	1310 304 091	DAF	0170 13	145.893	1310 304 011	KAS	0270 41	146.394	1304 303 273	RVI	0160A 40
145.886	1310 304 091	KAS	0270 13	145.894	1310 304 138	MAN	0040 13	146.394	1304 303 273	DAF	0230A 40
145.887	1310 304 092	MB	0010 13	145.894	1310 304 138	RVI	0140 13	146.395	1304 303 212	MAN	0080A 41
145.887	1310 304 092	MAN	0030 13	145.894	1310 304 138	DAF	0180 13	146.395	1304 303 212	IVE	0120A 41
145.887	1310 304 092	IVE	0090 13	145.894	1310 304 138	VOL	0250 13	146.395	1304 303 212	RVI	0160A 41
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145.888	1310 304 088	MB	0010 18	145.895	1310 304 137	DAF	0180 13	146.396	1304 303 214	RVI	0160A 42
145.888	1310 304 088	MAN	0030 18	145.895	1310 304 137	VOL	0250 13	146.396	1304 303 214	DAF	0230A 42
145.888	1310 304 088	IVE	0090 18	145.895	1310 304 137	KAS	0280 13	146.397	1304 304 516	MAN	0080A 14
145.888	1310 304 088	RVI	0130 18	145.896	1310 304 178	MAN	0040 18	146.397	1304 304 516	IVE	0120A 14
145.888	1310 304 088	DAF	0170 18	145.896	1310 304 178	RVI	0140 18	146.397	1304 304 516	RVI	0160A 14
145.888	1310 304 088	KAS	0270 18	145.896	1310 304 178	DAF	0180 18	146.397	1304 304 516	DAF	0230A 14
145.889	1310 304 093	MB	0010 18	145.896	1310 304 178	VOL	0250 18	146.432	1308 303 023	MB	0020A 35
145.889	1310 304 093	MAN	0030 18	145.896	1310 304 178	KAS	0280 18	146.432	1308 303 023	DAF	0210A 35
145.889	1310 304 093	IVE	0090 18	145.897	1310 304 177	MAN	0040 18	146.432	1308 303 023	VOL	0240 35
145.889	1310 304 093	RVI	0130 18	145.897	1310 304 177	RVI	0140 18	146.432	1308 303 023	VOL	0260A 35
145.889	1310 304 093	DAF	0170 18	145.897	1310 304 177	DAF	0180 18	146.434	1304 303 283	MAN	0080A 40
145.889	1310 304 093	KAS	0270 18	145.897	1310 304 177	VOL	0250 18	146.434	1304 303 283	IVE	0120A 40
145.890	1310 304 085	MB	0010 25	145.897	1310 304 177	KAS	0280 18	146.434	1304 303 283	RVI	0160A 40
145.890	1310 304 085	MAN	0030 25	145.898	1310 304 186	MAN	0040 23	146.434	1304 303 283	DAF	0230A 40
145.890	1310 304 085	IVE	0090 25	145.898	1310 304 186	RVI	0140 23	146.436	1304 303 175	MAN	0080A 41
145.890	1310 304 085	RVI	0130 25	145.898	1310 304 186	DAF	0180 23	146.436	1304 303 175	IVE	0120A 41
145.890	1310 304 085	DAF	0170 25	145.898	1310 304 186	VOL	0250 23	146.436	1304 303 175	RVI	0160A 41
145.890	1310 304 085	KAS	0270 25	145.898	1310 304 186	KAS	0280 23	146.436	1304 303 175	DAF	0230A 41
145.891	1310 304 124	MB	0010 25	145.899	1310 304 185	MAN	0040 23	146.438	1304 303 192	MAN	0080A 42

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146.438	1304 303 192	RVI	0160A 42	146.590	1304 303 171	DAF	0220A 37	146.614	1310 303 052	MB	0010 51
146.438	1304 303 192	DAF	0230A 42	146.600	1310 303 032	MB	0010 48	146.614	1310 303 052	MAN	0030 51
146.439	1304 304 518	MAN	0080A 14	146.600	1310 303 032	MAN	0030 48	146.614	1310 303 052	IVE	0090 51
146.439	1304 304 518	IVE	0120A 14	146.600	1310 303 032	IVE	0090 48	146.614	1310 303 052	RVI	0130 51
146.439	1304 304 518	RVI	0160A 14	146.600	1310 303 032	RVI	0130 48	146.614	1310 303 052	DAF	0170 51
146.439	1304 304 518	DAF	0230A 14	146.600	1310 303 032	DAF	0170 48	146.614	1310 303 052	KAS	0270 51
146.581	1304 303 219	MAN	0050A 38	146.600	1310 303 032	KAS	0270 48	146.615	1310 303 069	MAN	0040 48
146.581	1304 303 219	DAF	0190A 38	146.605	1310 303 044	MB	0010 48	146.615	1310 303 069	RVI	0140 48
146.581	1304 303 219	KAS	0290A 38	146.605	1310 303 044	MAN	0030 48	146.615	1310 303 069	DAF	0180 48
146.582	1304 303 218	MAN	0050A 38	146.605	1310 303 044	IVE	0090 48	146.615	1310 303 069	VOL	0250 48
146.582	1304 303 218	DAF	0190A 38	146.605	1310 303 044	RVI	0130 48	146.615	1310 303 069	KAS	0280 48
146.582	1304 303 218	KAS	0290A 38	146.605	1310 303 044	DAF	0170 48	146.616	1310 303 068	MAN	0040 48
146.583	1304 303 217	MAN	0050A 38	146.605	1310 303 044	KAS	0270 48	146.616	1310 303 068	RVI	0140 48
146.583	1304 303 217	DAF	0190A 38	146.609	1310 303 033	MB	0010 49	146.616	1310 303 068	DAF	0180 48
146.583	1304 303 217	KAS	0290A 38	146.609	1310 303 033	MAN	0030 49	146.616	1310 303 068	VOL	0250 48
146.584	1304 303 272	MAN	0070A 36	146.609	1310 303 033	IVE	0090 49	146.616	1310 303 068	KAS	0280 48
146.584	1304 303 272	IVE	0110A 36	146.609	1310 303 033	RVI	0130 49	146.617	1310 303 059	MAN	0040 49
146.584	1304 303 272	RVI	0150A 36	146.609	1310 303 033	DAF	0170 49	146.617	1310 303 059	RVI	0140 49
146.584	1304 303 272	DAF	0200A 35	146.609	1310 303 033	KAS	0270 49	146.617	1310 303 059	DAF	0180 49
146.584	1304 303 272	DAF	0220A 36	146.610	1310 303 045	MB	0010 49	146.617	1310 303 059	VOL	0250 49
146.585	1308 303 027	MB	0020A 36	146.610	1310 303 045	MAN	0030 49	146.617	1310 303 059	KAS	0280 49
146.585	1308 303 027	DAF	0210A 36	146.610	1310 303 045	IVE	0090 49	146.618	1310 303 074	MAN	0040 49
146.585	1308 303 027	VOL	0240 36	146.610	1310 303 045	RVI	0130 49	146.618	1310 303 074	RVI	0140 49
146.585	1308 303 027	VOL	0260A 36	146.610	1310 303 045	DAF	0170 49	146.618	1310 303 074	DAF	0180 49
146.586	1304 303 294	MAN	0060A 32	146.610	1310 303 045	KAS	0270 49	146.618	1310 303 074	VOL	0250 49
146.586	1304 303 294	IVE	0100A 32	146.611	1310 303 051	MB	0010 50	146.618	1310 303 074	KAS	0280 49
146.586	1304 303 294	RVI	0145A 32	146.611	1310 303 051	MAN	0030 50	146.619	1310 303 062	MAN	0040 50
146.586	1304 303 294	KAS	0300A 32	146.611	1310 303 051	IVE	0090 50	146.619	1310 303 062	RVI	0140 50
146.587	1304 303 210	MAN	0070A 37	146.611	1310 303 051	RVI	0130 50	146.619	1310 303 062	DAF	0180 50
146.587	1304 303 210	IVE	0110A 37	146.611	1310 303 051	DAF	0170 50	146.619	1310 303 062	VOL	0250 50
146.587	1304 303 210	RVI	0150A 37	146.611	1310 303 051	KAS	0270 50	146.619	1310 303 062	KAS	0280 50
146.587	1304 303 210	DAF	0220A 37	146.612	1310 303 050	MB	0010 50	146.620	1310 303 075	MAN	0040 50
146.588	1304 303 285	MAN	0070A 36	146.612	1310 303 050	MAN	0030 50	146.620	1310 303 075	RVI	0140 50
146.588	1304 303 285	IVE	0110A 36	146.612	1310 303 050	IVE	0090 50	146.620	1310 303 075	DAF	0180 50
146.588	1304 303 285	RVI	0150A 36	146.612	1310 303 050	RVI	0130 50	146.620	1310 303 075	VOL	0250 50
146.588	1304 303 285	DAF	0220A 36	146.612	1310 303 050	DAF	0170 50	146.620	1310 303 075	KAS	0280 50
146.589	1304 303 287	MAN	0070A 37	146.612	1310 303 050	KAS	0270 50	146.621	1310 303 072	MAN	0040 51
146.589	1304 303 287	IVE	0110A 37	146.613	1310 303 031	MB	0010 51	146.621	1310 303 072	RVI	0140 51
146.589	1304 303 287	RVI	0150A 37	146.613	1310 303 031	MAN	0030 51	146.621	1310 303 072	DAF	0180 51
146.589	1304 303 287	DAF	0220A 37	146.613	1310 303 031	IVE	0090 51	146.621	1310 303 072	VOL	0250 51
146.590	1304 303 171	MAN	0070A 37	146.613	1310 303 031	RVI	0130 51	146.621	1310 303 072	KAS	0280 51
146.590	1304 303 171	IVE	0110A 37	146.613	1310 303 031	DAF	0170 51	146.622	1310 303 073	MAN	0040 51

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146.622	1310 303 073	RVI	0140	51	147.224	1304 304 462	MAN	0050A	23	147.234	1304 303 293	RVI	0145A	33
146.622	1310 303 073	DAF	0180	51	147.224	1304 304 462	DAF	0190A	23	147.234	1304 303 293	KAS	0300A	33
146.622	1310 303 073	VOL	0250	51	147.224	1304 304 462	KAS	0290A	23	147.235	1304 304 437	MAN	0070A	31
146.622	1310 303 073	KAS	0280	51	147.225	1304 303 223	MAN	0050A	39	147.235	1304 304 437	IVE	0110A	31
147.130	1304 305 040	MAN	0080A	47	147.225	1304 303 223	DAF	0190A	39	147.235	1304 304 437	RVI	0150A	31
147.130	1304 305 040	IVE	0120A	47	147.225	1304 303 223	KAS	0290A	39	147.235	1304 304 437	DAF	0220A	31
147.130	1304 305 040	RVI	0160A	47	147.226	1304 304 435	MAN	0070A	31	147.236	1304 304 553	MAN	0070A	31
147.130	1304 305 040	DAF	0230A	47	147.226	1304 304 435	IVE	0110A	31	147.236	1304 304 553	IVE	0110A	31
147.131	1304 304 671	MAN	0080A	35	147.226	1304 304 435	RVI	0150A	31	147.236	1304 304 553	RVI	0150A	31
147.131	1304 304 671	IVE	0120A	35	147.226	1304 304 435	DAF	0200A	30	147.236	1304 304 553	DAF	0220A	31
147.131	1304 304 671	RVI	0160A	35	147.226	1304 304 435	DAF	0220A	31	147.237	1308 304 052	MB	0020A	30
147.131	1304 304 671	DAF	0230A	35	147.227	1304 304 498	MAN	0070A	23	147.237	1308 304 052	DAF	0210A	30
147.145	1304 305 041	MAN	0080A	47	147.227	1304 304 498	IVE	0110A	23	147.237	1308 304 052	VOL	0240	30
147.145	1304 305 041	IVE	0120A	47	147.227	1304 304 498	RVI	0150A	23	147.237	1308 304 052	VOL	0260A	30
147.145	1304 305 041	RVI	0160A	47	147.227	1304 304 498	DAF	0200A	23	147.238	1310 304 200	MB	0010	44
147.145	1304 305 041	DAF	0230A	47	147.227	1304 304 498	DAF	0220A	23	147.238	1310 304 200	MAN	0030	44
147.146	1304 304 669	MAN	0080A	35	147.228	1304 303 244	MAN	0070A	37	147.238	1310 304 200	IVE	0090	44
147.146	1304 304 669	IVE	0120A	35	147.228	1304 303 244	IVE	0110A	37	147.238	1310 304 200	RVI	0130	44
147.146	1304 304 669	RVI	0160A	35	147.228	1304 303 244	RVI	0150A	37	147.238	1310 304 200	DAF	0170	44
147.146	1304 304 669	DAF	0230A	35	147.228	1304 303 244	DAF	0200A	36	147.238	1310 304 200	KAS	0270	44
147.149	1304 304 670	MAN	0080A	35	147.228	1304 303 244	DAF	0220A	37	147.239	1310 305 003	MB	0010	55
147.149	1304 304 670	IVE	0120A	35	147.229	1304 304 586	MAN	0060A	24	147.239	1310 305 003	MAN	0030	55
147.149	1304 304 670	RVI	0160A	35	147.229	1304 304 586	IVE	0100A	24	147.239	1310 305 003	IVE	0090	55
147.149	1304 304 670	DAF	0230A	35	147.229	1304 304 586	RVI	0145A	24	147.239	1310 305 003	RVI	0130	55
147.150	1304 305 039	MAN	0080A	47	147.229	1304 304 586	KAS	0300A	24	147.239	1310 305 003	DAF	0170	55
147.150	1304 305 039	IVE	0120A	47	147.230	1304 304 672	MAN	0060A	27	147.239	1310 305 003	KAS	0270	55
147.150	1304 305 039	RVI	0160A	47	147.230	1304 304 672	IVE	0100A	27	147.240	1310 304 201	MAN	0040	45
147.150	1304 305 039	DAF	0230A	47	147.230	1304 304 672	RVI	0145A	27	147.240	1310 304 201	RVI	0140	45
147.219	1304 304 446	MAN	0050A	33	147.230	1304 304 672	KAS	0300A	27	147.240	1310 304 201	DAF	0180	45
147.219	1304 304 446	DAF	0190A	33	147.231	1304 304 636	MAN	0060A	12	147.240	1310 304 201	VOL	0250	45
147.219	1304 304 446	KAS	0290A	33	147.231	1304 304 636	IVE	0100A	12	147.240	1310 304 201	KAS	0280	45
147.220	1304 304 464	MAN	0050A	23	147.231	1304 304 636	RVI	0145A	12	147.241	1310 305 011	MAN	0040	55
147.220	1304 304 464	DAF	0190A	23	147.231	1304 304 636	KAS	0300A	12	147.241	1310 305 011	RVI	0140	55
147.220	1304 304 464	KAS	0290A	23	147.232	1304 304 587	MAN	0060A	24	147.241	1310 305 011	DAF	0180	55
147.221	1304 303 225	MAN	0050A	39	147.232	1304 304 587	IVE	0100A	24	147.241	1310 305 011	VOL	0250	55
147.221	1304 303 225	DAF	0190A	39	147.232	1304 304 587	RVI	0145A	24	147.241	1310 305 011	KAS	0280	55
147.221	1304 303 225	KAS	0290A	39	147.232	1304 304 587	KAS	0300A	24	150.135	1304 332 215	MAN	0070B	17
147.222	1304 304 486	MAN	0050A	23	147.233	1304 304 637	MAN	0060A	12	150.135	1304 332 215	MAN	0080B	10
147.222	1304 304 486	DAF	0190A	23	147.233	1304 304 637	IVE	0100A	12	150.135	1304 332 215	IVE	0110B	17
147.222	1304 304 486	KAS	0290A	23	147.233	1304 304 637	RVI	0145A	12	150.135	1304 332 215	IVE	0120B	10
147.223	1304 303 224	MAN	0050A	39	147.233	1304 304 637	KAS	0300A	12	150.135	1304 332 215	RVI	0150B	17
147.223	1304 303 224	DAF	0190A	39	147.234	1304 303 293	MAN	0060A	33	150.135	1304 332 215	RVI	0160B	10
147.223	1304 303 224	KAS	0290A	39	147.234	1304 303 293	IVE	0100A	33	150.135	1304 332 215	DAF	0200B	10

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150.135	1304 332 215	DAF	0220B	17	154.135	1310 304 202	IVE	0090	22	154.200	1304 304 597	RVI	0160A	29
150.135	1304 332 215	DAF	0230B	10	154.135	1310 304 202	RVI	0130	22	154.200	1304 304 597	DAF	0190A	20
150.139	1304 332 044	MAN	0080B	10	154.135	1310 304 202	RVI	0140	22	154.200	1304 304 597	DAF	0200A	20
150.139	1304 332 044	IVE	0120B	10	154.135	1310 304 202	DAF	0170	22	154.200	1304 304 597	DAF	0220A	20
150.139	1304 332 044	RVI	0160B	10	154.135	1310 304 202	DAF	0180	22	154.200	1304 304 597	DAF	0230A	29
150.139	1304 332 044	DAF	0230B	10	154.135	1310 304 202	VOL	0250	22	154.200	1304 304 597	KAS	0290A	20
150.141	1304 332 060	MAN	0070B	17	154.135	1310 304 202	KAS	0270	22	154.200	1304 304 597	KAS	0300A	20
150.141	1304 332 060	MAN	0080B	10	154.135	1310 304 202	KAS	0280	22	154.201	1304 333 011	MAN	0060B	15
150.141	1304 332 060	IVE	0110B	17	154.170	1308 304 090	MB	0020A	8	154.201	1304 333 011	MAN	0070B	22
150.141	1304 332 060	IVE	0120B	10	154.170	1308 304 090	DAF	0210A	8	154.201	1304 333 011	MAN	0080B	15
150.141	1304 332 060	RVI	0150B	17	154.170	1308 304 090	VOL	0240	8	154.201	1304 333 011	IVE	0100B	15
150.141	1304 332 060	RVI	0160B	10	154.170	1308 304 090	VOL	0260A	8	154.201	1304 333 011	IVE	0110B	22
150.141	1304 332 060	DAF	0220B	17	154.171	1308 304 091	MB	0020A	20	154.201	1304 333 011	IVE	0120B	15
150.141	1304 332 060	DAF	0230B	10	154.171	1308 304 091	DAF	0210A	20	154.201	1304 333 011	RVI	0145B	15
150.163	1304 332 071	MAN	0050B	10	154.171	1308 304 091	VOL	0240	20	154.201	1304 333 011	RVI	0150B	22
150.163	1304 332 071	MAN	0060B	10	154.171	1308 304 091	VOL	0260A	20	154.201	1304 333 011	RVI	0160B	15
150.163	1304 332 071	IVE	0100B	10	154.172	1308 332 015	MB	0020B	16	154.201	1304 333 011	DAF	0200B	15
150.163	1304 332 071	RVI	0145B	10	154.172	1308 332 015	DAF	0210B	16	154.201	1304 333 011	DAF	0220B	22
150.163	1304 332 071	DAF	0190B	10	154.172	1308 332 015	VOL	0260B	16	154.201	1304 333 011	DAF	0230B	15
150.163	1304 332 071	KAS	0290B	10	154.190	1310 304 175	MB	0010	36	154.201	1304 333 011	KAS	0300B	15
150.163	1304 332 071	KAS	0300B	10	154.190	1310 304 175	MAN	0030	36	154.202	1316 304 078	MAN	0040	38
150.164	1304 332 135	MAN	0080B	10	154.190	1310 304 175	MAN	0040	33	154.202	1316 304 078	RVI	0140	38
150.164	1304 332 135	IVE	0120B	10	154.190	1310 304 175	IVE	0090	36	154.202	1316 304 078	DAF	0180	38
150.164	1304 332 135	RVI	0160B	10	154.190	1310 304 175	RVI	0130	36	154.202	1316 304 078	VOL	0250	38
150.164	1304 332 135	DAF	0230B	10	154.190	1310 304 175	RVI	0140	33	154.202	1316 304 078	KAS	0280	38
150.165	1308 332 034	MB	0020B	11	154.190	1310 304 175	DAF	0170	36	154.210	1304 332 089	MAN	0050B	15
150.165	1308 332 034	DAF	0210B	11	154.190	1310 304 175	DAF	0180	33	154.210	1304 332 089	MAN	0060B	15
150.165	1308 332 034	VOL	0260B	11	154.190	1310 304 175	VOL	0250	33	154.210	1304 332 089	MAN	0070B	22
150.166	1304 332 216	MAN	0080B	10	154.190	1310 304 175	KAS	0270	36	154.210	1304 332 089	MAN	0080B	15
150.166	1304 332 216	IVE	0120B	10	154.190	1310 304 175	KAS	0280	33	154.210	1304 332 089	IVE	0100B	15
150.166	1304 332 216	RVI	0160B	10	154.199	1304 304 688	MAN	0080A	18	154.210	1304 332 089	IVE	0110B	22
150.166	1304 332 216	DAF	0230B	10	154.199	1304 304 688	IVE	0120A	18	154.210	1304 332 089	IVE	0120B	15
150.167	1304 332 217	MAN	0080B	10	154.199	1304 304 688	RVI	0160A	18	154.210	1304 332 089	RVI	0145B	15
150.167	1304 332 217	IVE	0120B	10	154.199	1304 304 688	DAF	0230A	18	154.210	1304 332 089	RVI	0150B	22
150.167	1304 332 217	RVI	0160B	10	154.200	1304 304 597	MAN	0050A	20	154.210	1304 332 089	RVI	0160B	15
150.167	1304 332 217	DAF	0230B	10	154.200	1304 304 597	MAN	0060A	20	154.210	1304 332 089	DAF	0190B	15
154.064	1240 304 272	MAN	0080A	8	154.200	1304 304 597	MAN	0070A	20	154.210	1304 332 089	DAF	0220B	22
154.064	1240 304 272	IVE	0120A	8	154.200	1304 304 597	MAN	0080A	29	154.210	1304 332 089	DAF	0230B	15
154.064	1240 304 272	RVI	0160A	8	154.200	1304 304 597	IVE	0100A	20	154.210	1304 332 089	KAS	0290B	15
154.064	1240 304 272	DAF	0230A	8	154.200	1304 304 597	IVE	0110A	20	154.210	1304 332 089	KAS	0300B	15
154.135	1310 304 202	MB	0010	22	154.200	1304 304 597	IVE	0120A	29	154.360	1304 304 394	MAN	0050A	31
154.135	1310 304 202	MAN	0030	22	154.200	1304 304 597	RVI	0145A	20	154.360	1304 304 394	DAF	0190A	31
154.135	1310 304 202	MAN	0040	22	154.200	1304 304 597	RVI	0150A	20	154.360	1304 304 394	KAS	0290A	31

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154.361	6002 305 515	MAN	0050A	8	156.036	0732 040 386	RVI	0150B	44	156.140	0732 040 409	MB	0020B	18
154.361	6002 305 515	MAN	0070A	8	156.036	0732 040 386	RVI	0160A	10	156.140	0732 040 409	MAN	0030	12
154.361	6002 305 515	IVE	0110A	8	156.036	0732 040 386	RVI	0160B	41	156.140	0732 040 409	MAN	0030	24
154.361	6002 305 515	RVI	0150A	8	156.036	0732 040 386	DAF	0200B	35	156.140	0732 040 409	MAN	0030	38
154.361	6002 305 515	DAF	0190A	8	156.036	0732 040 386	DAF	0220B	44	156.140	0732 040 409	MAN	0040	12
154.361	6002 305 515	DAF	0200A	8	156.036	0732 040 386	DAF	0230A	10	156.140	0732 040 409	MAN	0050A	11
154.361	6002 305 515	DAF	0220A	8	156.036	0732 040 386	DAF	0230B	41	156.140	0732 040 409	MAN	0050A	22
154.361	6002 305 515	KAS	0290A	8	156.036	0732 040 386	KAS	0300B	36	156.140	0732 040 409	MAN	0060A	11
154.362	1304 304 444	MAN	0070A	29	156.037	0732 040 385	MAN	0050B	17	156.140	0732 040 409	MAN	0060A	22
154.362	1304 304 444	IVE	0110A	29	156.037	0732 040 385	MAN	0060B	17	156.140	0732 040 409	MAN	0070A	11
154.362	1304 304 444	RVI	0150A	29	156.037	0732 040 385	MAN	0060B	35	156.140	0732 040 409	MAN	0070A	22
154.362	1304 304 444	DAF	0200A	28	156.037	0732 040 385	MAN	0070B	24	156.140	0732 040 409	MAN	0080A	31
154.362	1304 304 444	DAF	0220A	29	156.037	0732 040 385	MAN	0070B	43	156.140	0732 040 409	IVE	0090	12
154.363	1304 304 664	MB	0010	9	156.037	0732 040 385	MAN	0080A	11	156.140	0732 040 409	IVE	0090	24
154.363	1304 304 664	MAN	0030	9	156.037	0732 040 385	MAN	0080B	17	156.140	0732 040 409	IVE	0090	38
154.363	1304 304 664	MAN	0060A	8	156.037	0732 040 385	MAN	0080B	40	156.140	0732 040 409	IVE	0100A	11
154.363	1304 304 664	IVE	0090	9	156.037	0732 040 385	IVE	0100B	17	156.140	0732 040 409	IVE	0100A	22
154.363	1304 304 664	IVE	0100A	8	156.037	0732 040 385	IVE	0100B	35	156.140	0732 040 409	IVE	0110A	11
154.363	1304 304 664	RVI	0130	9	156.037	0732 040 385	IVE	0110B	24	156.140	0732 040 409	IVE	0110A	22
154.363	1304 304 664	RVI	0145A	8	156.037	0732 040 385	IVE	0110B	43	156.140	0732 040 409	IVE	0120A	31
154.363	1304 304 664	DAF	0170	9	156.037	0732 040 385	IVE	0120A	11	156.140	0732 040 409	RVI	0130	12
154.363	1304 304 664	KAS	0270	9	156.037	0732 040 385	IVE	0120B	17	156.140	0732 040 409	RVI	0130	24
154.363	1304 304 664	KAS	0300A	8	156.037	0732 040 385	IVE	0120B	40	156.140	0732 040 409	RVI	0130	38
154.364	1308 304 087	MB	0020A	28	156.037	0732 040 385	RVI	0145B	17	156.140	0732 040 409	RVI	0140	12
154.364	1308 304 087	DAF	0210A	28	156.037	0732 040 385	RVI	0145B	35	156.140	0732 040 409	RVI	0145A	11
154.364	1308 304 087	VOL	0240	28	156.037	0732 040 385	RVI	0150B	24	156.140	0732 040 409	RVI	0145A	22
154.364	1308 304 087	VOL	0260A	28	156.037	0732 040 385	RVI	0150B	43	156.140	0732 040 409	RVI	0150A	11
154.371	1310 304 195	MAN	0040	9	156.037	0732 040 385	RVI	0160A	11	156.140	0732 040 409	RVI	0150A	22
154.371	1310 304 195	RVI	0140	9	156.037	0732 040 385	RVI	0160B	17	156.140	0732 040 409	RVI	0160A	31
154.371	1310 304 195	DAF	0180	9	156.037	0732 040 385	RVI	0160B	40	156.140	0732 040 409	DAF	0170	12
154.371	1310 304 195	VOL	0250	9	156.037	0732 040 385	DAF	0190B	17	156.140	0732 040 409	DAF	0170	24
154.371	1310 304 195	KAS	0280	9	156.037	0732 040 385	DAF	0200B	34	156.140	0732 040 409	DAF	0170	38
154.373	6002 305 994	DAF	0220A	49	156.037	0732 040 385	DAF	0220B	24	156.140	0732 040 409	DAF	0180	12
154.373	6002 305 994	DAF	0230A	53	156.037	0732 040 385	DAF	0220B	43	156.140	0732 040 409	DAF	0190A	11
156.036	0732 040 386	MAN	0060B	36	156.037	0732 040 385	DAF	0230A	11	156.140	0732 040 409	DAF	0190A	22
156.036	0732 040 386	MAN	0070B	44	156.037	0732 040 385	DAF	0230B	17	156.140	0732 040 409	DAF	0200A	11
156.036	0732 040 386	MAN	0080A	10	156.037	0732 040 385	DAF	0230B	40	156.140	0732 040 409	DAF	0200A	22
156.036	0732 040 386	MAN	0080B	41	156.037	0732 040 385	KAS	0290B	17	156.140	0732 040 409	DAF	0210B	18
156.036	0732 040 386	IVE	0100B	36	156.037	0732 040 385	KAS	0300B	17	156.140	0732 040 409	DAF	0220A	11
156.036	0732 040 386	IVE	0110B	44	156.037	0732 040 385	KAS	0300B	35	156.140	0732 040 409	DAF	0220A	22
156.036	0732 040 386	IVE	0120A	10	156.140	0732 040 409	MB	0010	12	156.140	0732 040 409	DAF	0220A	51
156.036	0732 040 386	IVE	0120B	41	156.140	0732 040 409	MB	0010	24	156.140	0732 040 409	DAF	0230A	31
156.036	0732 040 386	RVI	0145B	36	156.140	0732 040 409	MB	0010	38	156.140	0732 040 409	DAF	0230A	55

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156.140	0732 040 409	VOL	0250	12	157.182	1313 333 001	RVI	0145B	14	157.205	1304 332 066	DAF	0220B	21
156.140	0732 040 409	VOL	0260B	18	157.182	1313 333 001	RVI	0150B	21	157.205	1304 332 066	DAF	0230B	14
156.140	0732 040 409	KAS	0270	12	157.182	1313 333 001	RVI	0160B	14	157.205	1304 332 066	KAS	0290B	14
156.140	0732 040 409	KAS	0270	24	157.182	1313 333 001	DAF	0200B	14	157.205	1304 332 066	KAS	0300B	14
156.140	0732 040 409	KAS	0270	38	157.182	1313 333 001	DAF	0220B	21	157.219	1307 304 607	MB	0020A	7
156.140	0732 040 409	KAS	0280	12	157.182	1313 333 001	DAF	0230B	14	157.219	1307 304 607	DAF	0210A	7
156.140	0732 040 409	KAS	0290A	11	157.182	1313 333 001	KAS	0300B	14	157.219	1307 304 607	VOL	0240	7
156.140	0732 040 409	KAS	0290A	22	157.186	1304 304 515	MAN	0080A	17	157.219	1307 304 607	VOL	0260A	7
156.140	0732 040 409	KAS	0300A	11	157.186	1304 304 515	IVE	0120A	17	157.220	1307 304 608	MB	0020A	19
156.140	0732 040 409	KAS	0300A	22	157.186	1304 304 515	RVI	0160A	17	157.220	1307 304 608	DAF	0210A	19
156.176	1312 304 159	MB	0010	39	157.186	1304 304 515	DAF	0230A	17	157.220	1307 304 608	VOL	0240	19
156.176	1312 304 159	MAN	0030	39	157.187	1304 304 653	MAN	0080A	28	157.220	1307 304 608	VOL	0260A	19
156.176	1312 304 159	MAN	0040	34	157.187	1304 304 653	IVE	0120A	28	157.694	1304 304 655	MAN	0050A	30
156.176	1312 304 159	IVE	0090	39	157.187	1304 304 653	RVI	0160A	28	157.694	1304 304 655	DAF	0190A	30
156.176	1312 304 159	RVI	0130	39	157.187	1304 304 653	DAF	0230A	28	157.694	1304 304 655	KAS	0290A	30
156.176	1312 304 159	RVI	0140	34	157.188	1304 304 261	MAN	0080A	37	157.695	1304 304 452	MAN	0050A	35
156.176	1312 304 159	DAF	0170	39	157.188	1304 304 261	IVE	0120A	37	157.695	1304 304 452	DAF	0190A	35
156.176	1312 304 159	DAF	0180	34	157.188	1304 304 261	RVI	0160A	37	157.695	1304 304 452	KAS	0290A	35
156.176	1312 304 159	DAF	0220A	52	157.188	1304 304 261	DAF	0230A	37	157.696	1304 304 591	MAN	0050A	19
156.176	1312 304 159	DAF	0230A	56	157.189	1313 304 008	MAN	0040	37	157.696	1304 304 591	MAN	0070A	19
156.176	1312 304 159	VOL	0250	34	157.189	1313 304 008	RVI	0140	37	157.696	1304 304 591	IVE	0110A	19
156.176	1312 304 159	KAS	0270	39	157.189	1313 304 008	DAF	0180	37	157.696	1304 304 591	RVI	0150A	19
156.176	1312 304 159	KAS	0280	34	157.189	1313 304 008	VOL	0250	37	157.696	1304 304 591	DAF	0190A	19
156.178	0732 041 571	MB	0020A	11	157.189	1313 304 008	KAS	0280	37	157.696	1304 304 591	DAF	0200A	19
156.178	0732 041 571	DAF	0210A	11	157.200	1308 304 059	MB	0020A	33	157.696	1304 304 591	DAF	0220A	19
156.178	0732 041 571	VOL	0240	11	157.200	1308 304 059	DAF	0210A	33	157.696	1304 304 591	KAS	0290A	19
156.178	0732 041 571	VOL	0260A	11	157.200	1308 304 059	VOL	0240	33	157.697	1304 304 051	MAN	0050A	7
157.180	1312 304 052	MAN	0040	21	157.200	1308 304 059	VOL	0260A	33	157.697	1304 304 051	MAN	0070A	7
157.180	1312 304 052	RVI	0140	21	157.201	1304 304 199	MAN	0080A	37	157.697	1304 304 051	IVE	0110A	7
157.180	1312 304 052	DAF	0180	21	157.201	1304 304 199	IVE	0120A	37	157.697	1304 304 051	RVI	0150A	7
157.180	1312 304 052	VOL	0250	21	157.201	1304 304 199	RVI	0160A	37	157.697	1304 304 051	DAF	0190A	7
157.180	1312 304 052	KAS	0280	21	157.201	1304 304 199	DAF	0230A	37	157.697	1304 304 051	DAF	0200A	7
157.181	1312 304 158	MAN	0040	32	157.205	1304 332 066	MAN	0050B	14	157.697	1304 304 051	DAF	0220A	7
157.181	1312 304 158	RVI	0140	32	157.205	1304 332 066	MAN	0060B	14	157.697	1304 304 051	KAS	0290A	7
157.181	1312 304 158	DAF	0180	32	157.205	1304 332 066	MAN	0070B	21	157.698	1304 304 443	MAN	0070A	28
157.181	1312 304 158	VOL	0250	32	157.205	1304 332 066	MAN	0080B	14	157.698	1304 304 443	IVE	0110A	28
157.181	1312 304 158	KAS	0280	32	157.205	1304 332 066	IVE	0100B	14	157.698	1304 304 443	RVI	0150A	28
157.182	1313 333 001	MAN	0060B	14	157.205	1304 332 066	IVE	0110B	21	157.698	1304 304 443	DAF	0200A	27
157.182	1313 333 001	MAN	0070B	21	157.205	1304 332 066	IVE	0120B	14	157.698	1304 304 443	DAF	0220A	28
157.182	1313 333 001	MAN	0080B	14	157.205	1304 332 066	RVI	0145B	14	157.699	1304 304 448	MAN	0070A	33
157.182	1313 333 001	IVE	0100B	14	157.205	1304 332 066	RVI	0150B	21	157.699	1304 304 448	IVE	0110A	33
157.182	1313 333 001	IVE	0110B	21	157.205	1304 332 066	RVI	0160B	14	157.699	1304 304 448	RVI	0150A	33
157.182	1313 333 001	IVE	0120B	14	157.205	1304 332 066	DAF	0190B	14	157.699	1304 304 448	DAF	0200A	32

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157.699	1304 304 448	DAF	0220A	33	157.709	1311 304 250	KAS	0270	42	160.116	1240 304 278	KAS	0300B	16
157.700	1304 304 576	MAN	0060A	19	157.710	1310 304 158	MAN	0040	8	160.116	1240 304 278	KAS	0300B	34
157.700	1304 304 576	IVE	0100A	19	157.710	1310 304 158	RVI	0140	8	160.143	1249 304 222	MAN	0050A	10
157.700	1304 304 576	RVI	0145A	19	157.710	1310 304 158	DAF	0180	8	160.143	1249 304 222	MAN	0070A	10
157.700	1304 304 576	KAS	0300A	19	157.710	1310 304 158	VOL	0250	8	160.143	1249 304 222	MAN	0080A	20
157.701	1304 304 588	MAN	0060A	29	157.710	1310 304 158	KAS	0280	8	160.143	1249 304 222	IVE	0110A	10
157.701	1304 304 588	IVE	0100A	29	157.711	1310 304 188	MAN	0040	42	160.143	1249 304 222	IVE	0120A	20
157.701	1304 304 588	RVI	0145A	29	157.711	1310 304 188	RVI	0140	42	160.143	1249 304 222	RVI	0150A	10
157.701	1304 304 588	KAS	0300A	29	157.711	1310 304 188	DAF	0180	42	160.143	1249 304 222	RVI	0160A	20
157.702	1304 304 651	MAN	0060A	7	157.711	1310 304 188	VOL	0250	42	160.143	1249 304 222	DAF	0190A	10
157.702	1304 304 651	IVE	0100A	7	157.711	1310 304 188	KAS	0280	42	160.143	1249 304 222	DAF	0200A	10
157.702	1304 304 651	RVI	0145A	7	157.712	1304 304 646	DAF	0220A	48	160.143	1249 304 222	DAF	0220A	10
157.702	1304 304 651	KAS	0300A	7	157.713	1304 304 687	DAF	0230A	52	160.143	1249 304 222	DAF	0230A	20
157.703	1304 304 608	MAN	0080A	37	160.116	1240 304 278	MAN	0050B	16	160.143	1249 304 222	KAS	0290A	10
157.703	1304 304 608	IVE	0120A	37	160.116	1240 304 278	MAN	0060B	16	160.189	1297 304 436	MB	0010	11
157.703	1304 304 608	RVI	0160A	37	160.116	1240 304 278	MAN	0060B	34	160.189	1297 304 436	MB	0010	23
157.703	1304 304 608	DAF	0230A	37	160.116	1240 304 278	MAN	0070B	23	160.189	1297 304 436	MB	0010	37
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157.704	1308 332 036	DAF	0210B	15	160.116	1240 304 278	MAN	0080A	9	160.189	1297 304 436	MAN	0030	23
157.704	1308 332 036	VOL	0260B	15	160.116	1240 304 278	MAN	0080B	16	160.189	1297 304 436	MAN	0030	37
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157.706	1311 304 226	IVE	0090	8	160.116	1240 304 278	IVE	0100B	34	160.189	1297 304 436	MAN	0060A	10
157.706	1311 304 226	RVI	0130	8	160.116	1240 304 278	IVE	0110B	23	160.189	1297 304 436	MAN	0060A	21
157.706	1311 304 226	DAF	0170	8	160.116	1240 304 278	IVE	0110B	42	160.189	1297 304 436	MAN	0070A	21
157.706	1311 304 226	KAS	0270	8	160.116	1240 304 278	IVE	0120A	9	160.189	1297 304 436	MAN	0080A	30
157.707	1310 304 080	MB	0010	21	160.116	1240 304 278	IVE	0120B	16	160.189	1297 304 436	IVE	0090	11
157.707	1310 304 080	MAN	0030	21	160.116	1240 304 278	IVE	0120B	39	160.189	1297 304 436	IVE	0090	23
157.707	1310 304 080	IVE	0090	21	160.116	1240 304 278	RVI	0145B	16	160.189	1297 304 436	IVE	0090	37
157.707	1310 304 080	RVI	0130	21	160.116	1240 304 278	RVI	0145B	34	160.189	1297 304 436	IVE	0100A	10
157.707	1310 304 080	DAF	0170	21	160.116	1240 304 278	RVI	0150B	23	160.189	1297 304 436	IVE	0100A	21
157.707	1310 304 080	KAS	0270	21	160.116	1240 304 278	RVI	0150B	42	160.189	1297 304 436	IVE	0110A	21
157.708	1310 304 157	MB	0010	35	160.116	1240 304 278	RVI	0160A	9	160.189	1297 304 436	IVE	0120A	30
157.708	1310 304 157	MAN	0030	35	160.116	1240 304 278	RVI	0160B	16	160.189	1297 304 436	RVI	0130	11
157.708	1310 304 157	IVE	0090	35	160.116	1240 304 278	RVI	0160B	39	160.189	1297 304 436	RVI	0130	23
157.708	1310 304 157	RVI	0130	35	160.116	1240 304 278	DAF	0190B	16	160.189	1297 304 436	RVI	0130	37
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157.708	1310 304 157	KAS	0270	35	160.116	1240 304 278	DAF	0220B	23	160.189	1297 304 436	RVI	0145A	10
157.709	1311 304 250	MB	0010	42	160.116	1240 304 278	DAF	0220B	42	160.189	1297 304 436	RVI	0145A	21
157.709	1311 304 250	MAN	0030	42	160.116	1240 304 278	DAF	0230A	9	160.189	1297 304 436	RVI	0150A	21
157.709	1311 304 250	IVE	0090	42	160.116	1240 304 278	DAF	0230B	16	160.189	1297 304 436	RVI	0160A	30
157.709	1311 304 250	RVI	0130	42	160.116	1240 304 278	DAF	0230B	39	160.189	1297 304 436	DAF	0170	11
157.709	1311 304 250	DAF	0170	42	160.116	1240 304 278	KAS	0290B	16	160.189	1297 304 436	DAF	0170	23

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160.189	1297 304 436	DAF	0180	11	160.242	1297 304 437	VOL	0260B	17	171.014	0635 460 010	VOL	0240	9
160.189	1297 304 436	DAF	0190A	21	169.396	0501 304 692	MAN	0060B	4	171.014	0635 460 010	VOL	0260A	9
160.189	1297 304 436	DAF	0200A	21	169.396	0501 304 692	MAN	0070B	4	171.038	0735 470 155	MB	0020B	7
160.189	1297 304 436	DAF	0220A	21	169.396	0501 304 692	MAN	0070B	11	171.038	0735 470 155	DAF	0210B	7
160.189	1297 304 436	DAF	0220A	50	169.396	0501 304 692	MAN	0080B	4	171.038	0735 470 155	VOL	0260B	7
160.189	1297 304 436	DAF	0230A	30	169.396	0501 304 692	IVE	0100B	4	171.044	0735 470 115	MAN	0060B	6
160.189	1297 304 436	DAF	0230A	54	169.396	0501 304 692	IVE	0110B	4	171.044	0735 470 115	MAN	0070B	6
160.189	1297 304 436	VOL	0250	11	169.396	0501 304 692	IVE	0110B	11	171.044	0735 470 115	MAN	0070B	13
160.189	1297 304 436	KAS	0270	11	169.396	0501 304 692	IVE	0120B	4	171.044	0735 470 115	MAN	0080B	6
160.189	1297 304 436	KAS	0270	23	169.396	0501 304 692	RVI	0145B	4	171.044	0735 470 115	IVE	0100B	6
160.189	1297 304 436	KAS	0270	37	169.396	0501 304 692	RVI	0150B	4	171.044	0735 470 115	IVE	0110B	6
160.189	1297 304 436	KAS	0280	11	169.396	0501 304 692	RVI	0150B	11	171.044	0735 470 115	IVE	0110B	13
160.189	1297 304 436	KAS	0290A	21	169.396	0501 304 692	RVI	0160B	4	171.044	0735 470 115	IVE	0120B	6
160.189	1297 304 436	KAS	0300A	10	169.396	0501 304 692	DAF	0200B	4	171.044	0735 470 115	RVI	0145B	6
160.189	1297 304 436	KAS	0300A	21	169.396	0501 304 692	DAF	0220B	4	171.044	0735 470 115	RVI	0150B	6
160.238	0631 329 127	MAN	0050B	3	169.396	0501 304 692	DAF	0220B	11	171.044	0735 470 115	RVI	0150B	13
160.238	0631 329 127	DAF	0190B	3	169.396	0501 304 692	DAF	0230B	4	171.044	0735 470 115	RVI	0160B	6
160.238	0631 329 127	KAS	0290B	3	169.396	0501 304 692	KAS	0300B	4	171.044	0735 470 115	DAF	0200B	6
160.239	0631 329 037	MAN	0060B	3	169.396	0730 150 767	MB	0020B	5	171.044	0735 470 115	DAF	0220B	6
160.239	0631 329 037	MAN	0070B	3	169.396	0730 150 767	DAF	0210B	5	171.044	0735 470 115	DAF	0220B	13
160.239	0631 329 037	MAN	0070B	10	169.396	0730 150 767	VOL	0260B	5	171.044	0735 470 115	DAF	0230B	6
160.239	0631 329 037	MAN	0080B	3	169.397	0730 103 102	MB	0020B	6	171.044	0735 470 115	KAS	0300B	6
160.239	0631 329 037	IVE	0100B	3	169.397	0730 103 102	MAN	0060B	5	171.061	0735 470 016	MAN	0050B	6
160.239	0631 329 037	IVE	0110B	3	169.397	0730 103 102	MAN	0070B	5	171.061	0735 470 016	DAF	0190B	6
160.239	0631 329 037	IVE	0110B	10	169.397	0730 103 102	MAN	0070B	12	171.061	0735 470 016	KAS	0290B	6
160.239	0631 329 037	IVE	0120B	3	169.397	0730 103 102	MAN	0080B	5	188.096	1238 304 394	MAN	0050A	9
160.239	0631 329 037	RVI	0145B	3	169.397	0730 103 102	IVE	0100B	5	188.096	1238 304 394	MAN	0070A	9
160.239	0631 329 037	RVI	0150B	3	169.397	0730 103 102	IVE	0110B	5	188.096	1238 304 394	MAN	0080A	19
160.239	0631 329 037	RVI	0150B	10	169.397	0730 103 102	IVE	0110B	12	188.096	1238 304 394	IVE	0110A	9
160.239	0631 329 037	RVI	0160B	3	169.397	0730 103 102	IVE	0120B	5	188.096	1238 304 394	IVE	0120A	19
160.239	0631 329 037	DAF	0200B	3	169.397	0730 103 102	RVI	0145B	5	188.096	1238 304 394	RVI	0150A	9
160.239	0631 329 037	DAF	0220B	3	169.397	0730 103 102	RVI	0150B	5	188.096	1238 304 394	RVI	0160A	19
160.239	0631 329 037	DAF	0220B	10	169.397	0730 103 102	RVI	0150B	12	188.096	1238 304 394	DAF	0190A	9
160.239	0631 329 037	DAF	0230B	3	169.397	0730 103 102	RVI	0160B	5	188.096	1238 304 394	DAF	0200A	9
160.239	0631 329 037	KAS	0300B	3	169.397	0730 103 102	DAF	0200B	5	188.096	1238 304 394	DAF	0220A	9
160.240	0631 329 049	MB	0020B	4	169.397	0730 103 102	DAF	0210B	6	188.096	1238 304 394	DAF	0230A	19
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160.241	0631 329 175	VOL	0260B	3	169.397	0730 103 102	KAS	0300B	5	188.209	1312 304 150	MAN	0080A	38
160.242	1297 304 437	MB	0020B	17	171.014	0635 460 010	MB	0020A	9	188.209	1312 304 150	IVE	0100A	30

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188.209	1312 304 150	IVE	0120A	38	190.388	1304 232 092	RVI	0145B	1	198.796	1304 233 006	KAS	0300B	12
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188.209	1312 304 150	DAF	0190A	36	190.389	1304 232 088	RVI	0160B	1	198.815	1304 232 022	DAF	0230B	7
188.209	1312 304 150	DAF	0200A	33	190.389	1304 232 088	DAF	0230B	1	198.817	1304 233 005	MAN	0050B	12
188.209	1312 304 150	DAF	0220A	34	190.390	1304 232 086	MAN	0080B	1	198.817	1304 233 005	MAN	0060B	12
188.209	1312 304 150	DAF	0230A	38	190.390	1304 232 086	IVE	0120B	1	198.817	1304 233 005	MAN	0070B	19
188.209	1312 304 150	KAS	0290A	36	190.390	1304 232 086	RVI	0160B	1	198.817	1304 233 005	MAN	0080B	12
188.209	1312 304 150	KAS	0300A	30	190.390	1304 232 086	DAF	0230B	1	198.817	1304 233 005	IVE	0100B	12
189.421	1296 312 053	MAN	0080B	29	190.391	1304 232 095	MAN	0070B	1	198.817	1304 233 005	IVE	0110B	19
189.421	1296 312 053	IVE	0120B	29	190.391	1304 232 095	IVE	0110B	1	198.817	1304 233 005	IVE	0120B	12
189.421	1296 312 053	RVI	0160B	29	190.391	1304 232 095	RVI	0150B	1	198.817	1304 233 005	RVI	0145B	12
189.421	1296 312 053	DAF	0230B	29	190.391	1304 232 095	DAF	0220B	1	198.817	1304 233 005	RVI	0150B	19
190.298	1304 202 203	MAN	0080A	7	190.397	1308 202 048	MB	0020A	3	198.817	1304 233 005	RVI	0160B	12
190.298	1304 202 203	IVE	0120A	7	190.397	1308 202 048	DAF	0210A	3	198.817	1304 233 005	DAF	0190B	12
190.298	1304 202 203	RVI	0160A	7	190.397	1308 202 048	VOL	0240	3	198.817	1304 233 005	DAF	0220B	19
190.298	1304 202 203	DAF	0230A	7	190.397	1308 202 048	VOL	0260A	3	198.817	1304 233 005	DAF	0230B	12
190.311	1304 202 201	MAN	0080A	7	198.734	1308 233 003	MB	0020B	13	198.817	1304 233 005	KAS	0290B	12
190.311	1304 202 201	IVE	0120A	7	198.734	1308 233 003	DAF	0210B	13	198.817	1304 233 005	KAS	0300B	12
190.311	1304 202 201	RVI	0160A	7	198.734	1308 233 003	VOL	0260B	13	198.944	1308 298 001	MB	0020A	44
190.311	1304 202 201	DAF	0230A	7	198.734	1308 233 003	VOL	0260B	13	198.944	1308 298 001	MB	0020B	31
190.312	1304 202 202	MAN	0080A	7	198.734	1308 233 003	VOL	0260B	13	198.944	1308 298 001	DAF	0210A	44
190.312	1304 202 202	IVE	0120A	7	198.734	1308 233 003	VOL	0260B	13	198.944	1308 298 001	DAF	0210B	31
190.312	1304 202 202	RVI	0160A	7	198.734	1308 233 003	VOL	0260B	13	198.944	1308 298 001	VOL	0240	44
190.312	1304 202 202	DAF	0230A	7	198.734	1308 233 003	VOL	0260B	13	198.944	1308 298 001	VOL	0260A	44
190.331	1308 202 052	MB	0020A	3	198.736	1308 232 007	MB	0020B	8	198.944	1308 298 001	VOL	0260B	31
190.331	1308 202 052	DAF	0210A	3	198.736	1308 232 007	DAF	0210B	8	198.945	1304 298 914	MAN	0050A	47
190.331	1308 202 052	VOL	0240	3	198.736	1308 232 007	VOL	0260B	8	198.945	1304 298 914	MAN	0050B	32
190.331	1308 202 052	VOL	0260A	3	198.736	1308 232 007	VOL	0260B	8	198.945	1304 298 914	MAN	0060A	43
190.350	1308 232 011	MB	0020B	1	198.736	1308 232 007	VOL	0260B	8	198.945	1304 298 914	MAN	0060B	38
190.350	1308 232 011	DAF	0210B	1	198.736	1308 232 007	DAF	0210B	8	198.945	1304 298 914	MAN	0070A	45
190.350	1308 232 011	VOL	0260B	1	198.736	1308 232 007	DAF	0210B	8	198.945	1304 298 914	MAN	0070B	46
190.386	1304 232 028	MAN	0050B	1	198.736	1308 232 007	VOL	0260B	8	198.945	1304 298 914	MAN	0080A	49
190.386	1304 232 028	DAF	0190B	1	198.736	1308 232 007	VOL	0260B	8	198.945	1304 298 914	MAN	0080B	43
190.386	1304 232 028	KAS	0290B	1	198.736	1308 232 007	VOL	0260B	8	198.945	1304 298 914	IVE	0100A	43
190.387	1304 232 091	MAN	0070B	8	198.736	1308 232 007	VOL	0260B	8	198.945	1304 298 914	IVE	0100B	38
190.387	1304 232 091	IVE	0110B	8	198.736	1308 232 007	VOL	0260B	8	198.945	1304 298 914	IVE	0110A	45
190.387	1304 232 091	RVI	0150B	8	198.736	1308 232 007	VOL	0260B	8	198.945	1304 298 914	IVE	0110B	46
190.387	1304 232 091	DAF	0200B	1	198.736	1308 232 007	VOL	0260B	8	198.945	1304 298 914	IVE	0120A	49
190.387	1304 232 091	DAF	0220B	8	198.736	1308 232 007	VOL	0260B	8	198.945	1304 298 914	IVE	0120B	43
190.388	1304 232 092	MAN	0060B	1	198.736	1308 232 007	VOL	0260B	8	198.945	1304 298 914	IVE	0120B	43
190.388	1304 232 092	MAN	0060B	1	198.795	1304 232 026	MAN	0080B	7	198.945	1304 298 914	RVI	0145A	43
190.388	1304 232 092	IVE	0100B	1	198.795	1304 232 026	IVE	0120B	7					
190.388	1304 232 092	RVI	0145B	1	198.795	1304 232 026	RVI	0160B	7					
190.388	1304 232 092	KAS	0300B	1	198.795	1304 232 026	DAF	0230B	7					
190.389	1304 232 088	MAN	0080B	1	198.795	1304 232 026	MAN	0060B	12					
190.389	1304 232 088	IVE	0120B	1	198.796	1304 233 006	MAN	0070B	19					
190.389	1304 232 088	RVI	0160B	1	198.796	1304 233 006	MAN	0080B	12					
190.389	1304 232 088	DAF	0230B	1	198.796	1304 233 006	IVE	0100B	12					
190.390	1304 232 086	MAN	0080B	1	198.796	1304 233 006	IVE	0110B	19					
190.390	1304 232 086	IVE	0120B	1	198.796	1304 233 006	IVE	0120B	12					
190.390	1304 232 086	RVI	0160B	1	198.796	1304 233 006	RVI	0145B	12					
190.390	1304 232 086	DAF	0230B	1	198.796	1304 233 006	RVI	0150B	19					
190.391	1304 232 095	MAN	0070B	1	198.796	1304 233 006	RVI	0160B	12					
190.391	1304 232 095	IVE	0110B	1	198.796	1304 233 006	DAF	0200B	12					
190.391	1304 232 095	RVI	0150B	1	198.796	1304 233 006	DAF	0220B	12					
190.391	1304 232 095	DAF	0220B	1	198.796	1304 233 006	DAF	0200B	12					
190.397	1308 202 048	MB	0020A	3	198.796	1304 233 006	DAF	0220B	12					
190.397	1308 202 048	DAF	0210A	3	198.796	1304 233 006	DAF	0220B	12					
190.397	1308 202 048	VOL	0240	3	198.796	1304 233 006	DAF	0230B	12					
190.397	1308 202 048	VOL	0260A	3	198.796	1304 233 006	DAF	0230B	12					
198.734	1308 233 003	MB	0020B	13	198.796	1304 233 006	DAF	0230B	12					
198.734	1308 233 003	DAF	0210B	13	198.796	1304 233 006	DAF	0230B	12					
198.734	1308 233 003	VOL	0260B	13	198.796	1304 233 006	DAF	0230B	12					
198.734	1308 233 003	VOL	0260B	13	198.796	1304 233 006	DAF	0230B	12					
198.735	1308 232 006	MB	0020B	19	198.796	1304 233 006	DAF	0230B	12					
198.735	1308 232 006	DAF	0210B	19	198.796	1304 233 006	DAF	0230B	12					
198.735	1308 232 006	VOL	0260B	19	198.796	1304 233 006	DAF	0230B	12					
198.736	1308 232 007	MB	0020B	8	198.796	1304 233 006	DAF	0230B	12					
198.736	1308 232 007	DAF	0210B	8	198.796	1304 233 006	DAF	0230B	12					
198.736	1308 232 007	VOL	0260B	8	198.796	1304 233 006	DAF	0230B	12					
198.736	1308 232 007	VOL	0260B	8	198.796	1304 233 006	DAF	0230B	12					
198.795	1304 232 026	MAN	0080B	7	198.796	1304 233 006	DAF	0230B	12					
198.795	1304 232 026	IVE	0120B	7	198.796	1304 233 006	DAF	0230B	12					
198.795	1304 232 026	RVI	0160B	7	198.796	1304 233 006	DAF	0230B	12					
198.795	1304 232 026	DAF	0230B	7	198.796	1304 233 006	DAF	0230B	12					
198.796	1304 233 006	MAN	0060B	12	198.796	1304 233 006	DAF	0230B	12					
198.796	1304 233 006	MAN	0070B	19	198.796	1304 233 006	DAF	0230B	12					
198.796	1304 233 006	MAN	0080B	12	198.796	1304 233 006	DAF	0230B	12					
198.796	1304 233 006	IVE	0100B	12	198.796	1304 233 006	DAF	0230B	12					
198.796	1304 233 006	IVE	0110B	19	198.796	1304 233 006	DAF	0230B	12					
198.796	1304 233 006	IVE	0120B	12	19									

Ref. CEI	Ref. ZF	OEM	Tav.	Fig.	Ref. CEI	Ref. ZF	OEM	Tav.	Fig.	Ref. CEI	Ref. ZF	OEM	Tav.	Fig.
198.945	1304 298 914	RVI	0145B	38	298.018	1304 232 025	DAF	0200B	7	298.026	1304 298 908	KAS	0290B	31
198.945	1304 298 914	RVI	0150A	45	298.018	1304 232 025	DAF	0220B	14	298.027	1304 298 939	MAN	0060A	42
198.945	1304 298 914	RVI	0150B	46	298.019	1304 232 051	MAN	0060B	7	298.027	1304 298 939	MAN	0060B	37
198.945	1304 298 914	RVI	0160A	49	298.019	1304 232 051	IVE	0100B	7	298.027	1304 298 939	IVE	0100A	42
198.945	1304 298 914	RVI	0160B	43	298.019	1304 232 051	RVI	0145B	7	298.027	1304 298 939	IVE	0100B	37
198.945	1304 298 914	DAF	0190A	47	298.019	1304 232 051	KAS	0300B	7	298.027	1304 298 939	RVI	0145A	42
198.945	1304 298 914	DAF	0190B	32	298.022	1304 232 054	MAN	0080B	7	298.027	1304 298 939	RVI	0145B	37
198.945	1304 298 914	DAF	0200A	44	298.022	1304 232 054	IVE	0120B	7	298.027	1304 298 939	DAF	0200B	36
198.945	1304 298 914	DAF	0200B	37	298.022	1304 232 054	RVI	0160B	7	298.027	1304 298 939	KAS	0300A	42
198.945	1304 298 914	DAF	0220A	54	298.022	1304 232 054	DAF	0230B	7	298.027	1304 298 939	KAS	0300B	37
198.945	1304 298 914	DAF	0220B	46	298.023	1304 232 037	MAN	0070B	7	298.039	1310 298 002	MB	0010	57
198.945	1304 298 914	DAF	0230A	58	298.023	1304 232 037	IVE	0110B	7	298.039	1310 298 002	MAN	0030	57
198.945	1304 298 914	DAF	0230B	43	298.023	1304 232 037	RVI	0150B	7	298.039	1310 298 002	IVE	0090	57
198.945	1304 298 914	KAS	0290A	47	298.023	1304 232 037	DAF	0220B	7	298.039	1310 298 002	RVI	0130	57
198.945	1304 298 914	KAS	0290B	32	298.025	1308 298 009	MB	0020A	43	298.039	1310 298 002	DAF	0170	57
198.945	1304 298 914	KAS	0300A	43	298.025	1308 298 009	MB	0020B	30	298.039	1310 298 002	KAS	0270	57
198.945	1304 298 914	KAS	0300B	38	298.025	1308 298 009	DAF	0210A	43	298.040	1310 298 003	MB	0010	58
269.004	0730 105 881	MAN	0050B	5	298.025	1308 298 009	DAF	0210B	30	298.040	1310 298 003	MAN	0030	58
269.004	0730 105 881	DAF	0190B	5	298.025	1308 298 009	VOL	0240	43	298.040	1310 298 003	IVE	0090	58
269.004	0730 105 881	KAS	0290B	5	298.025	1308 298 009	VOL	0260A	43	298.040	1310 298 003	RVI	0130	58
269.005	0501 309 496	MAN	0050B	4	298.025	1308 298 009	VOL	0260B	30	298.040	1310 298 003	DAF	0170	58
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298.016	1304 232 029	KAS	0290B	7	298.026	1304 298 908	DAF	0220B	45					
298.018	1304 232 025	MAN	0070B	14	298.026	1304 298 908	DAF	0230A	57					
298.018	1304 232 025	IVE	0110B	14	298.026	1304 298 908	DAF	0230B	42					
298.018	1304 232 025	RVI	0150B	14	298.026	1304 298 908	KAS	0290A	46					

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