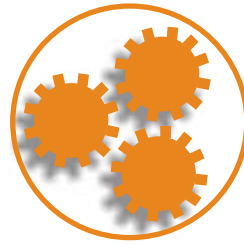
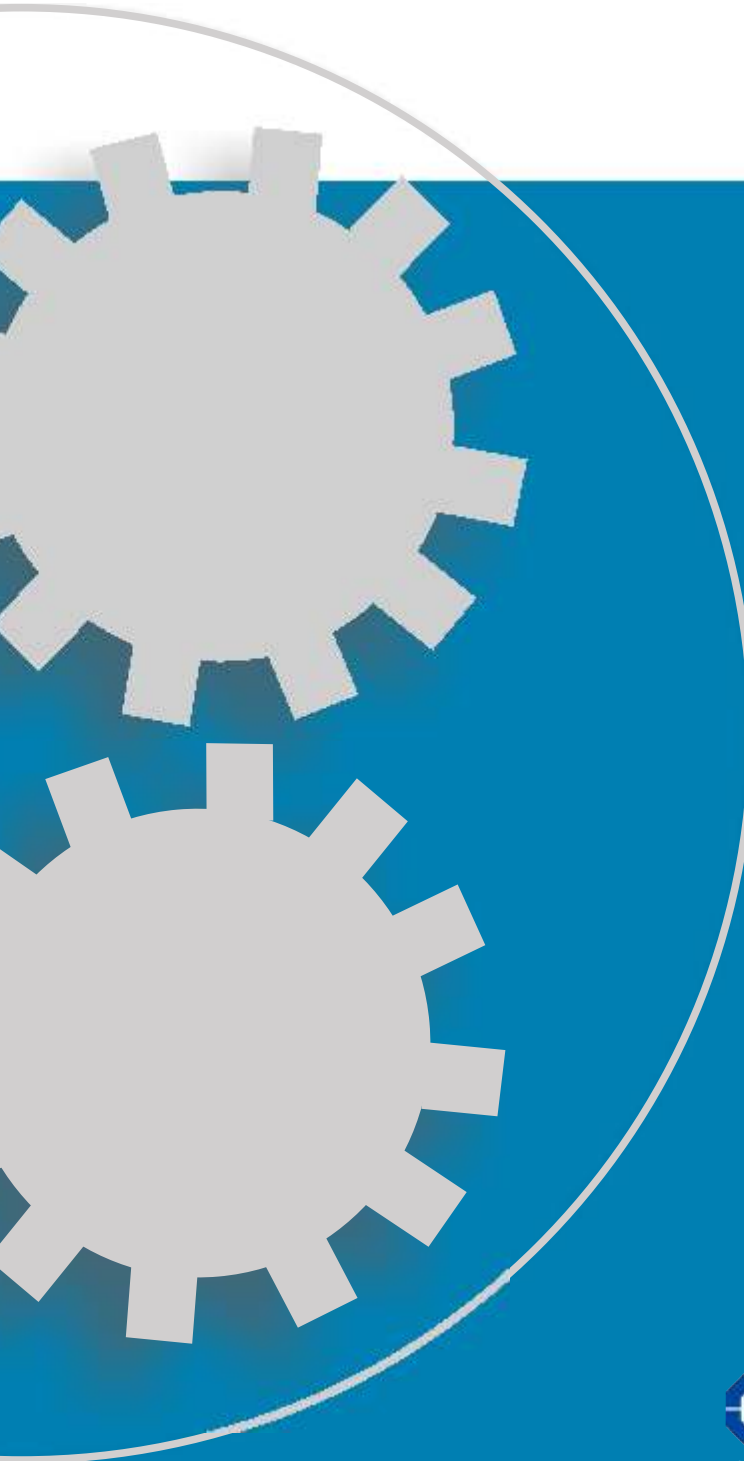


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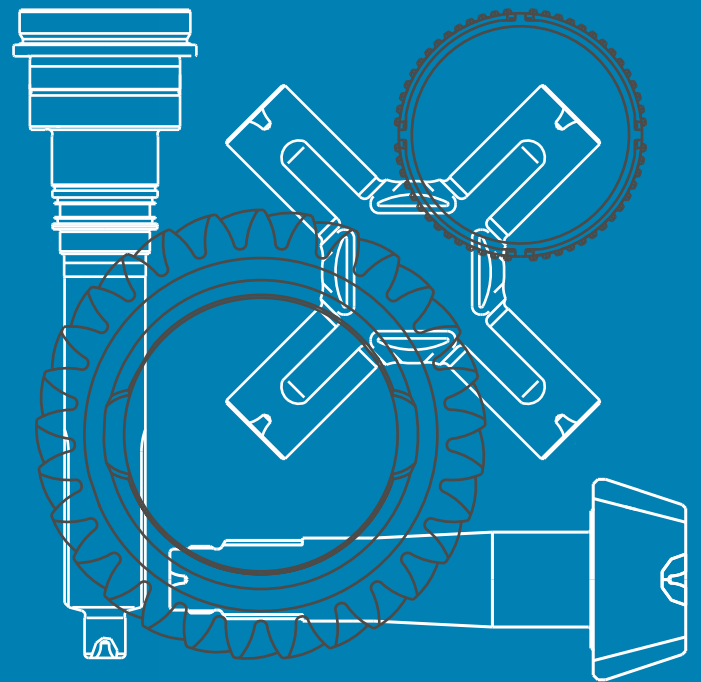


**CEI**

HIGH FIDELITY SPARE PARTS



Z.F. EcoLite  
EcoMid



n°  
**295**



Settembre 2008

S P A R E P A R T S



Italia

# CERTIFICATO

Nr 50 100 3413 - Rev. 01

Si attesta che / *This is to certify that*

IL SISTEMA QUALITÀ DI  
THE QUALITY SYSTEM OF

**C.E.I.**

**COSTRUZIONE EMILIANA INGRANAGGI S.p.A.**

SEDE PRINCIPALE: SEDE PRODUTTIVA:  
VIA EMILIA 239 VIA DEL LAVORO 78  
I-40011 ANZOLA EMILIA (BO) I-40056 CREPELLANO (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

2006-10-11

**SINCERT**

ACCREDITAMENTO ORGANISMI DI CERTIFICAZIONE E ISPEZIONE

SGQ N° 049A  
SGA N° 018D  
SCR N° 009F  
SSI N° 005G  
PRD N° 081B

Membro degli Accordi di Mutuo Riconoscimento EA e IAF  
Signatory of EA and IAF Mutual Recognition Agreements

Per l'Organismo di Certificazione  
For the Certification Body  
**TÜV Italia S.r.l.**

  
**Alessio Galiazso**  
Technical Responsible



**Rinnovo del certificato emesso per la prima volta in data 2003-10-21**

*"La validità del presente certificato è subordinata a sorveglianza periodica a 12 mesi e al riesame completo del sistema di gestione aziendale con periodicità triennale"*

*"The validity of the present certificate depends on the annual surveillance every 12 months and on the complete review of company's management system after three-years."*

# ELENCO CATALOGHI DISPONIBILI PER LE SEGUENTI GAMME DI NOSTRA PRODUZIONE

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



400.001 IVECO



400.025 DAF Axles



400.050 MERCEDES



400.055 M.A.N. Axles



400.075 RENAULT V.I.



400.080 SCANIA



400.090 VOLVO



400.095 ZF Old Range



400.195 ZF Ecosplit



400.295 ZF Ecomid



400.901 Ricambi



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

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

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

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

#### **INTERCHANGEABILITY GUARANTY**

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

#### **GARANZIA DI INTERCambiABILITÀ**

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

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

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

#### **AUSTAUSCHBARKEITS-GARANTIE**

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

#### **GARANTIA DE INTERCambiABILIDAD**

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

---

**Suitable To :**

---

**ZF ÷ Mercedes**

**ZF ÷ M.a.n.**

**ZF ÷ Iveco**

**ZF ÷ Renault V.I.**

**ZF ÷ Daf**

**ZF ÷ Volvo**

**ZF ÷ Evobus & Setra**

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Suitable to: **Mercedes**

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*Truck Applications*

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**EcoMid**  
*Truck Applications*

**9S75**





suitable to :

# Z.F.

## EcoLite

### 6S-850

**ECOLITE**  
6S-850

### Application

	6S-850 (1290)	5S200 (1322)	6S300 (1323)			
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

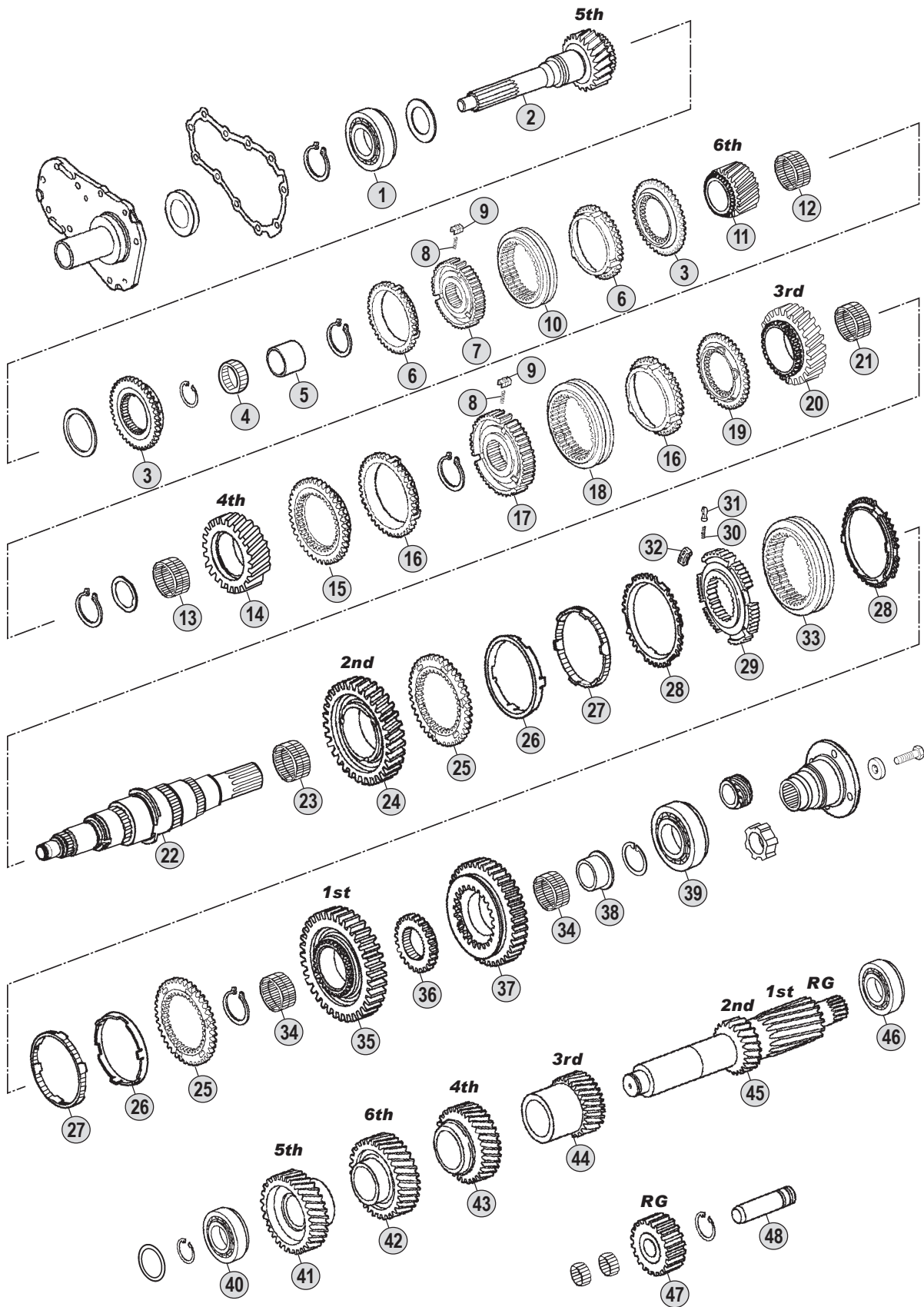
### Ratios

Ratio	Note
<b>6,72-0,79</b>	-

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Suitable To : **ZF**

**6S-850**



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**Ratios**

**6S-850 Ratio: 6,72 - 0,79**



Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.									
1	130.787	0735 330 685		Bearing	1		●				
2	102.421	1290 302 474		Input shaft	1	A	●				
2	102.424	1290 302 472		Input shaft	1	A	●				
2	102.418	1290 302 486		Input shaft	1	B	●				
2	102.419	1290 302 478		Input shaft	1	B	●				
2	102.420	1290 302 465		Input shaft	1	B	●				
2	102.421	1290 302 490		Input shaft	1	B	●				
2	102.422	1290 302 482		Input shaft	1	B	●				
2	102.423	1290 302 471		Input shaft	1	B	●				
3	109.738	1290 304 482	000 263 2620	Synchronizer cone	2		●				
4	137.303	0735 358 128		Needle bearing	1		●				
5	117.409	0735 295 119	002 981 4881	Bush	1		●				
6	119.266	1317 304 150	000 262 9534	Synchronizer ring	2		●				
7	155.243	1317 304 026	000 260 1145	Synchronizer hub	1		●				
8	156.195	0732 042 510	000 264 1993	Spring	3	x 2 pcs	●				
9	188.231	1317 304 081	000 265 0016	Pressure Piece	3	x 2 pcs	●				
10	154.415	1317 304 126	001 262 1423	Sliding sleeve	1		●				
11	145.963	1290 304 548		Gear 6th Speed	1	A	●				
11	146.656	1290 304 547	000 262 7610	Gear 6th Speed	1	B	●				
12	137.304	0735 321 527		Needle bearing	1		●				
13	137.306	0735 321 528		Needle bearing	1		●				
14	146.657	1290 304 574		Gear 4th Speed	1		●				
15	109.739	1290 304 508	000 263 2820	Synchronizer cone	1		●				
16	119.267	1317 304 114	000 262 9434	Synchronizer ring	2		●				
17	155.244	1317 304 031	000 260 1045	Synchronizer hub	1	Old type	(@)	●			
17	155.247	1290 304 619		Synchronizer hub	1		(#)	●			
18	154.416	1317 304 125	001 261 1323	Sliding sleeve	1		●				
19	109.740	1290 304 509	000 263 2720	Synchronizer cone	1		●				
20	146.658	1290 304 581		Gear 3rd Speed	1	AB	●				
21	137.307	0735 321 529		Needle bearing	1		●				
22	103.210	1290 304 571		Main shaft	1	Old type	(@)	●			
22	103.216	1290 304 620		Main shaft	1		(#)	●			
23	137.308	0735 321 530		Needle bearing	1		●				
24	146.665	1290 304 485		Gear 2th Speed	1	A	●				
24	146.659	1290 304 487	000 262 7010	Gear 2nd Speed	1	B	●				
25	109.407	1304 304 623		Synchronizer Cone	2		●				
26	119.221	1290 304 350		Internal Ring	2		●				
27	119.268	1290 304 366		Synchronizer ring	2		●				
28	119.223	1290 304 438		Outer Ring	2		●				
29	157.713	1304 304 687	000 260 0945	Synchronizer Hub	1		●				
30	156.140	0732 040 409	005 993 6101	Spring D.6,5x23,5	3		●				
31	160.189	1297 304 436	000 264 0839	Pressure Piece	3		●				
32	156.176	1312 304 159	000 262 4240	Pad	3		●				
33	154.373	6002 305 994		Sliding Sleeve	1		●				
34	137.305	0735 321 531		Needle cage	2		●				

## Notes

- (A-B) Respect the coupling as the assembling.  
 (@) Old type, respect the coupling as the assembling  
 (#) New type, respect the coupling as the assembling

## Date

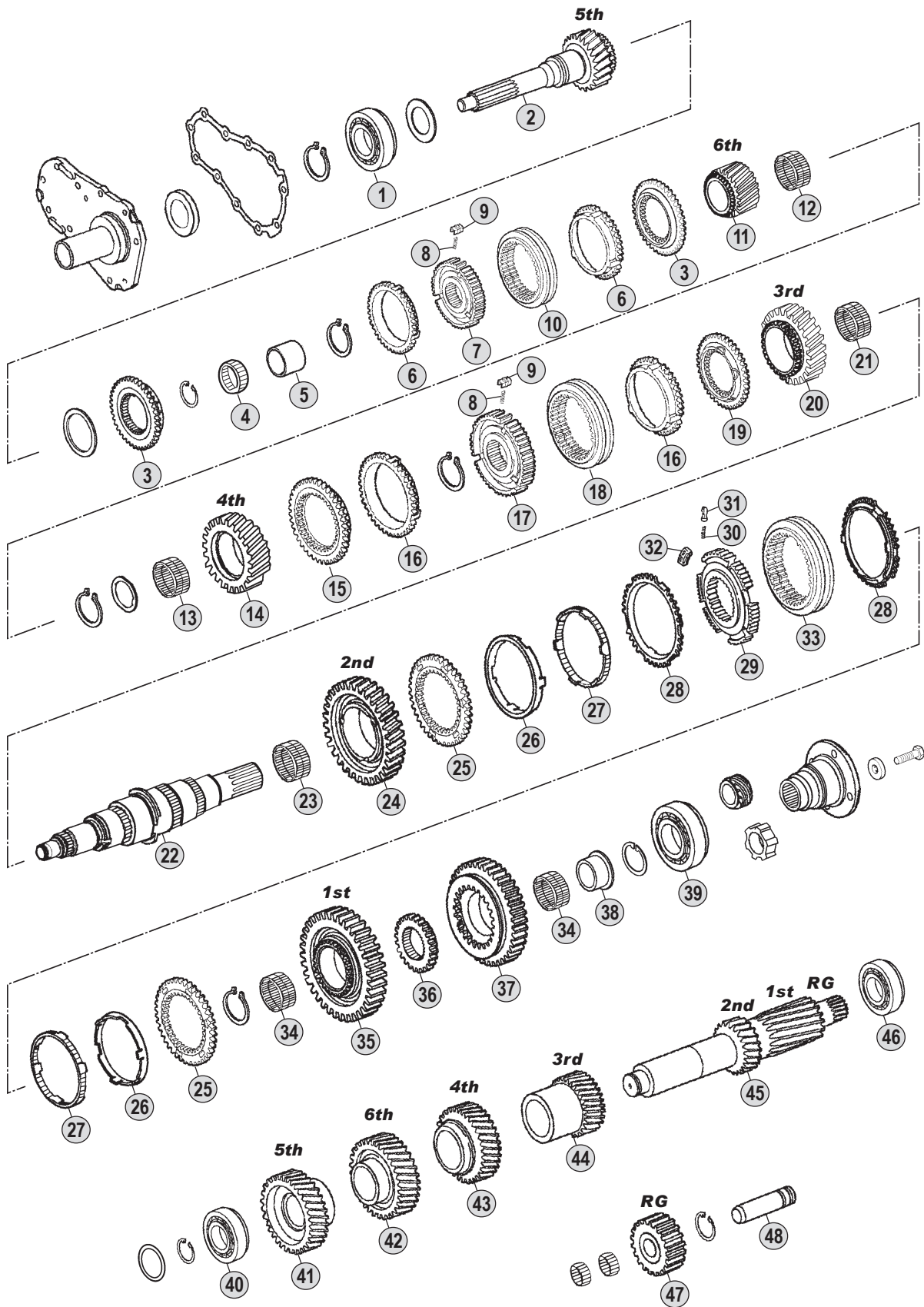
07 / 2006

## Table

0005

Suitable To : **ZF**

**6S-850**



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**Ratios**

**6S-850 Ratio: 6,72 - 0,79**



6S-850 (1290)

**ECOLITE**  
6S-850

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	MB no.										
35	<b>146.660</b>	1290 304 572		Gear 1st Speed	1			●					
36	<b>157.991</b>	1290 304 573		Reverse hub	1			●					
37	<b>147.251</b>	1290 304 058	000 262 7110	Reverse Gear 35 T	1			●					
38	117.410	1290 304 056	000 262 6750	Bush	1			●					
39	130.788	0750 116 373	000 981 8520	Bearing	1			●					
40	130.789	0735 371 607		Bearing	1			●					
41	146.667	1290 303 203		Gear 5th Speed	1		A	●					
41	<b>146.661</b>	1290 303 200	000 262 6910	Gear 5th Speed	1		B	●					
42	146.668	1290 303 204		Gear 6th Speed	1		A	●					
42	<b>146.662</b>	1290 303 199	000 262 6810	Gear 6th Speed 53 T	1		B	●					
43	<b>146.663</b>	1290 303 198	000 262 6710	Gear 4th Speed	1			●					
44	146.666	1290 303 202		Gear 3rd Speed 22 T	1		A	●					
44	<b>146.664</b>	1290 303 197	000 262 6610	Gear 3rd Speed	1		B	●					
45	105.223	1290 203 042		Countershaft	1		A	●					
45	<b>105.222</b>	1290 203 039		Countershaft	1		B	●					
46	130.790	0735 370 438		Bearing	1			●					
47	147.252	1290 305 034	000 262 0721	Reverse gear	1			●					
48	103.213	1290 305 028		Reverse pin	1			●					

**Notes**

- (A-B) Respect the coupling as the assembling.
- (@) Old type, respect the coupling as the assembling
- (#) New type, respect the coupling as the assembling

**Date**

07 / 2006

**Table**

**0005**





suitable to :

# Z.F.

## EcoLite

### S6-85

**ECOLITE**  
S6-85

### Application

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

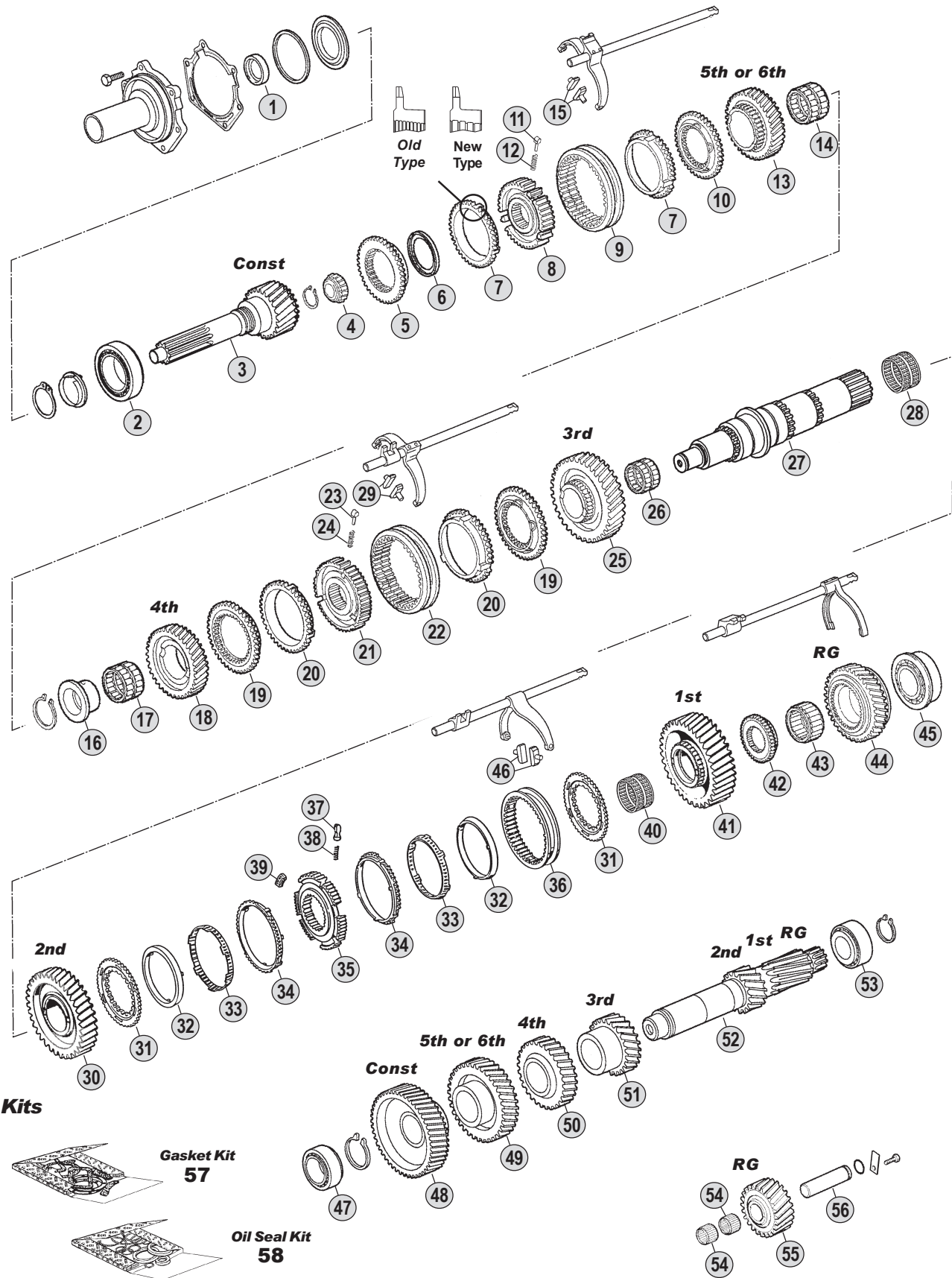
### Ratios

Ratio	Note
<b>6,75-0,83</b>	<b>A</b>
<b>7,72-1,00</b>	<b>B</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)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.									
1	139.753	0750 111 149					●				
2	130.704	0750 117 347					●				
3	102.387	1310 302 001	000 262 1101	1		A	●				
3	102.388	1310 302 025		1		A	●				
3	102.389	1310 302 032		1		A	●				
3	102.390	1310 302 026	000 262 0801	1		B	●				
3	<b>102.391</b>	1310 302 022		1		B	●				
3	102.392	1310 302 021		1		B	●				
3	102.393	1310 302 033		1		B	●				
4		0750 117 562	002 981 3681	1			●				
5	<b>109.400</b>	1310 302 023		1		A	●				
5	<b>109.401</b>	1310 302 024		1		B	●				
6	269.011	0501 313 171	000 262 0066	1			●				
7	119.219	1311 304 076		2	Old Type		●				
7	<b>119.220</b>	1311 304 255	000 262 5134	2	New Type		●				
8	<b>157.706</b>	1311 304 226		1			●				
9	<b>154.363</b>	1304 304 664		1			●				
10	<b>109.402</b>	1311 304 009		1			●				
11	<b>160.189</b>	1297 304 436	000 264 0839	3			●				
12	<b>156.140</b>	0732 040 409	005 993 6101	3			●				
13	145.886	1310 304 091		1		A	●				
13	145.887	1310 304 092		1		B	●				
14	137.269	0735 321 543		1			●				
15	<b>141.194</b>	1290 306 066	000 268 1449	2			●				
16	117.384	1311 304 124		1			●				
17	137.078	0735 320 493	008 981 0910	1			●				
18	145.888	1310 304 088		1		A	●				
18	145.889	1310 304 093	000 262 5514	1		B	●				
19	<b>109.134</b>	1312 304 027	000 262 5535	2			●				
20	<b>119.119</b>	1297 304 402	000 262 3834	2	Old Type		●				
20	<b>119.167</b>	1297 304 484	000 262 7034	2	New Type		●				
21	<b>157.707</b>	1310 304 080		1			●				
22	<b>154.135</b>	1310 304 202	001 262 1823	1			●				
23	<b>160.189</b>	1297 304 436	000 264 0839	3			●				
24	<b>156.140</b>	0732 040 409	005 993 6101	3			●				
25	145.890	1310 304 085		1		A	●				
25	145.891	1310 304 124		1		B	●				
26	137.270	0735 321 106		1			●				
27	103.195	1311 304 248		1			●				
28	137.270	0735 321 106		1			●				
29	<b>141.194</b>	1290 306 066	000 268 1449	2			●				
30	145.892	1310 304 012	000 262 8112	1			●				
31	<b>109.176</b>	1312 304 106	000 263 2120	2			●				
32	<b>119.152</b>	1268 304 424	000 262 2636	2			●				
33	<b>119.153</b>	1268 304 494	000 262 3436	2			●				

Notes

Date

07 / 2006

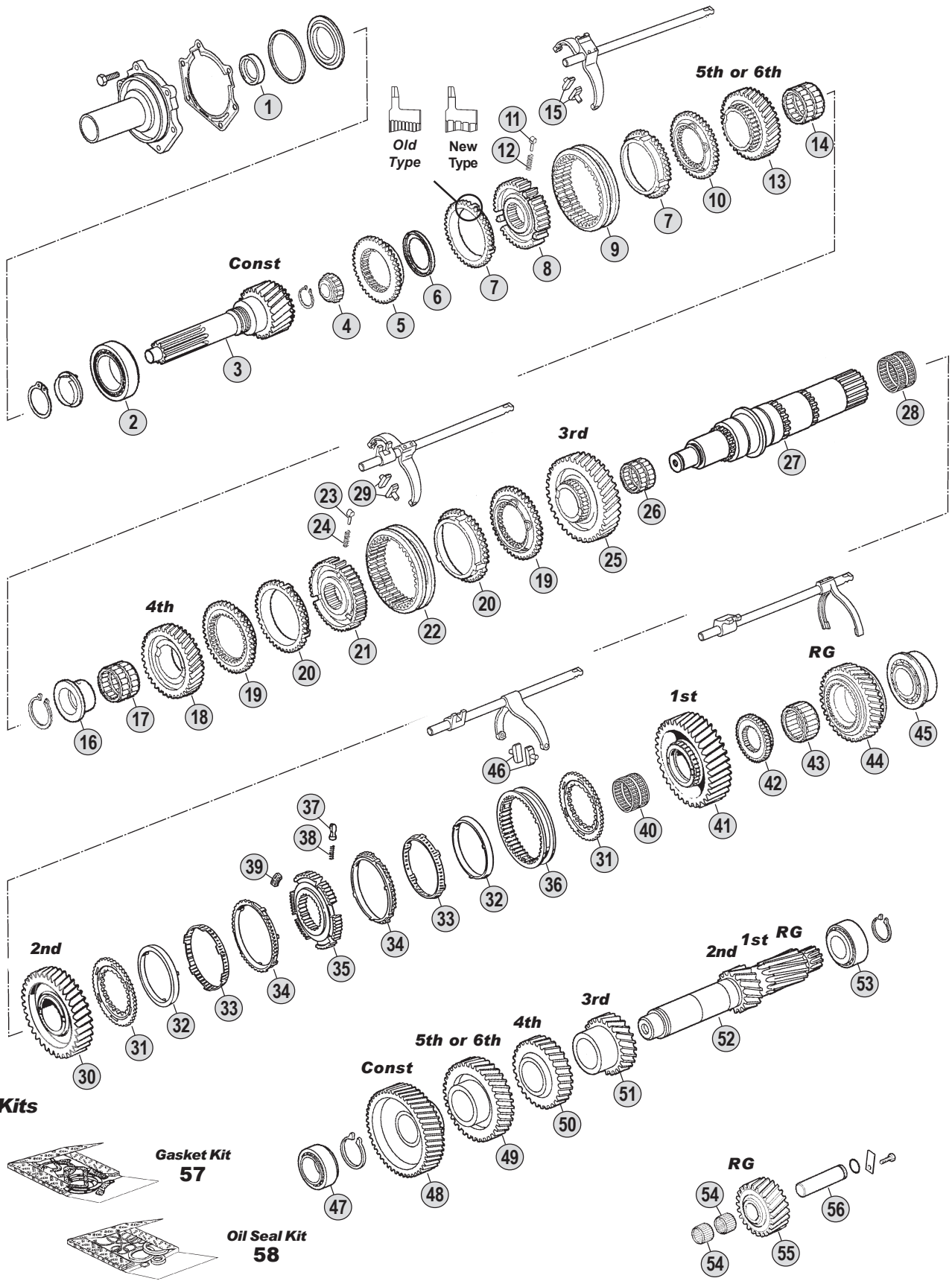
Table

0010

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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.	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			●					

**ECOLITE**  
S6-85

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Notes

Date

07 / 2006

Table

0010



suitable to :

# Z.F.

## EcoMid

### 9S75

**ECOMID**  
9S75

### Application

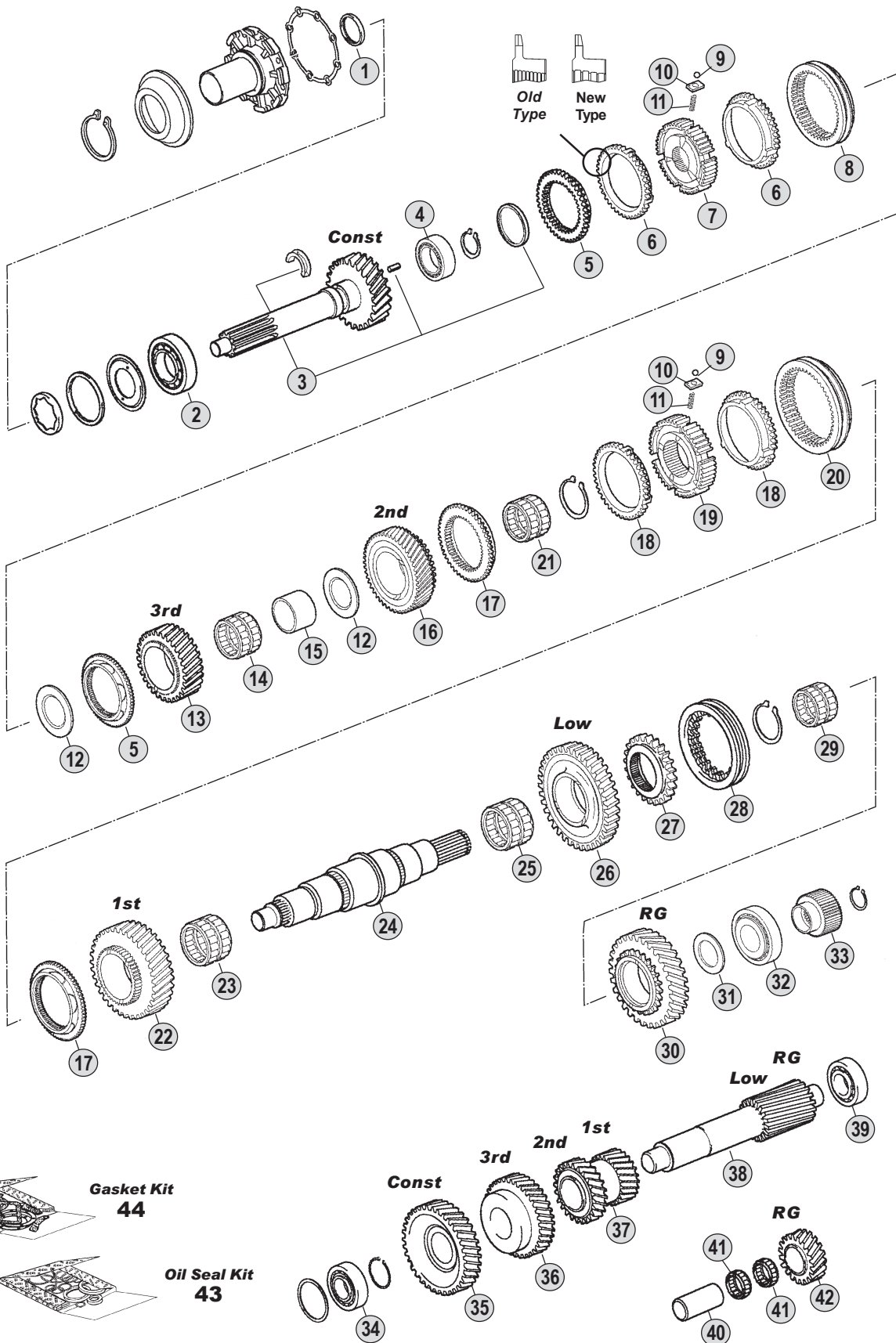
	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

### Ratios

Ratio	Note
<b>13,16-1,00</b>	--

Suitable To : **ZF**

**9S75**



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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	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	<b>190.331</b>	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	<b>109.135</b>	1308 304 078	000 262 8135	Synchronizer Cone	2		●							
6	119.174	1308 304 072	000 262 5434	Synchronizer Ring	2	Old type	●							
6	<b>119.117</b>	1308 304 097	000 262 9134	Synchronizer Ring	2	New Type	●							
7	<b>157.219</b>	1307 304 607	001 262 0835	Synchronizer Hub	1		●							
8	<b>154.170</b>	1308 304 090	000 262 8223	Sliding Sleeve	1		●							
9	<b>171.014</b>	0635 460 010	002 981 5685	Ball D.6	3		●							
10	<b>139.553</b>	1307 304 156	000 262 0218	Slide	3		●							
11	<b>156.178</b>	0732 041 571		Spring	3		●							
12	269.008	0730 108 172	000 262 5862	Washer A=4,15	2		●							
13	<b>145.826</b>	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	<b>145.521</b>	1308 304 054	000 262 8212	Gear 2nd Speed 30 T	1		●							
17	<b>109.137</b>	1308 304 077	000 262 8335	Synchronizer Cone	2		●							
18	119.116	1308 304 070		Synchronizer Ring	2	Old Type	●							
18	<b>119.141</b>	1308 304 096	000 262 9234	Synchronizer Ring	2	New Type	●							
19	<b>157.220</b>	1307 304 608	001 262 0735	Synchronizer Hub	1		●							
20	<b>154.171</b>	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	<b>103.137</b>	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	<b>157.200</b>	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	<b>146.432</b>	1308 303 023	000 263 2715	Constant Gear 37 T	1		●							
36	<b>146.585</b>	1308 303 027	000 263 3613	Gear 3rd Speed 32 T	1		●							
37	<b>143.124</b>	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

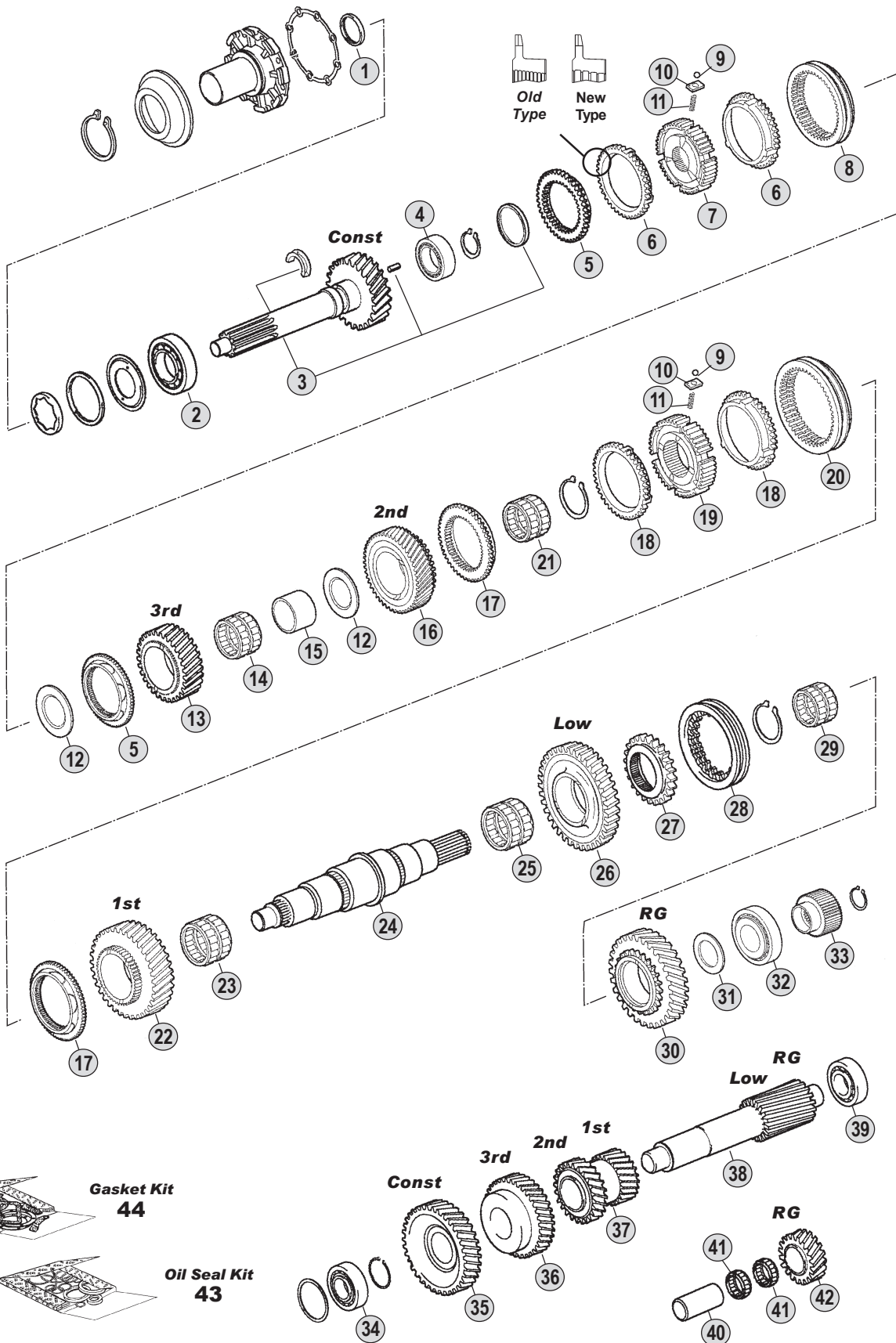
## Table

0020 / A

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Suitable To : **ZF**

**9S75**



**Kits**



**Ratios**

**9S75** Ratio : 13,16 - 1,00

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9S75 (1308)



Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	●	/	/	/	/	/		
		ZF no.	MB no.												
40	107.156	1304 305 030	000 263 0574	Reverse Shaft	1			●							
41	137.143	0735 358 192	002 981 6812	Needle Cage D.40x60x26	2			●							
42		1308 305 001	000 263 3431	Reverse Gear 20 T	1			●							
43	298.025	1308 298 009		Oil Seal Kit	1			●							
44	198.944	1308 298 001		Gasket Kit	1			●							

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

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

07 / 2006

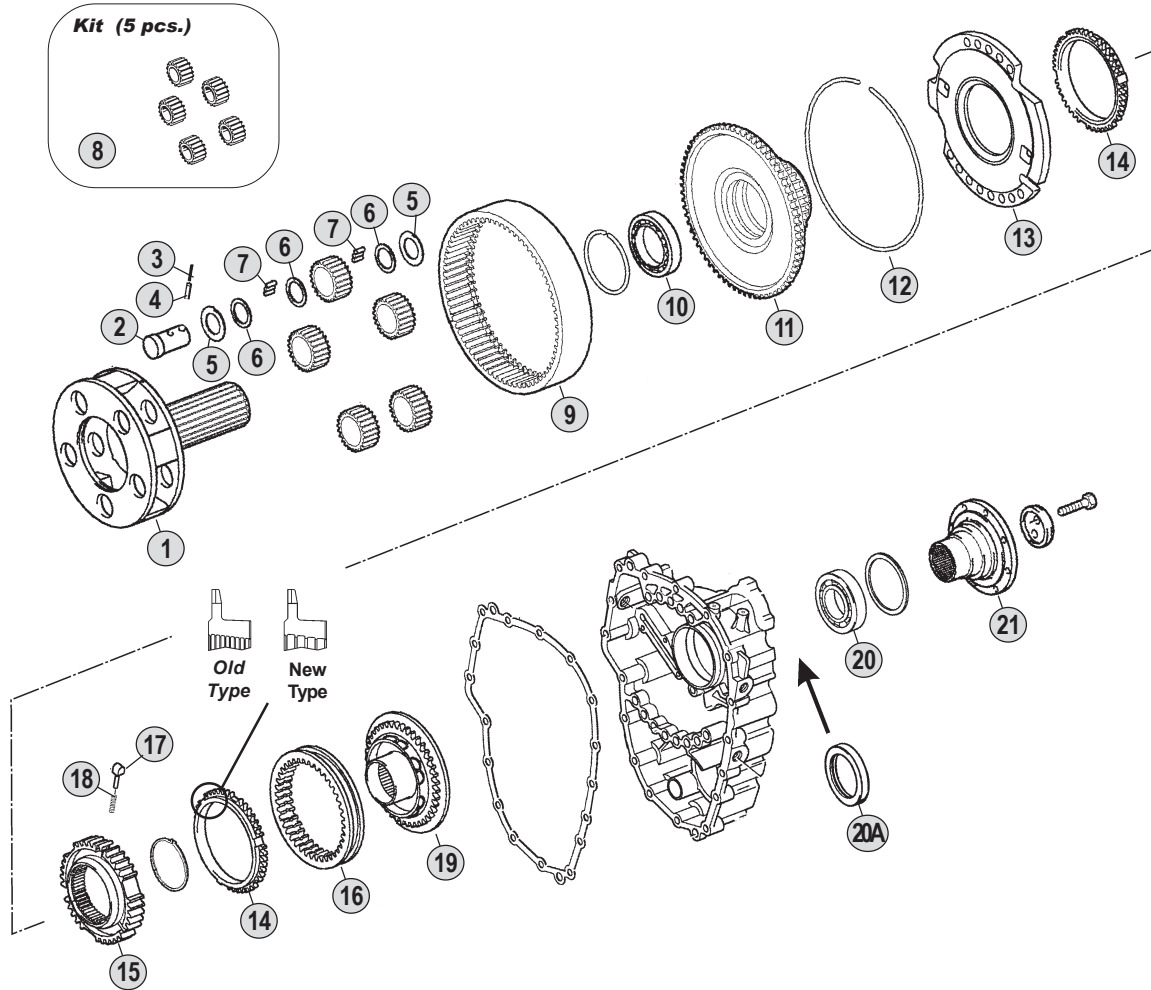
Table \_\_\_\_\_

0020 / A



Suitable To : **ZF**

**9S75**



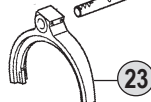
**Kits**



**Const/3rd**

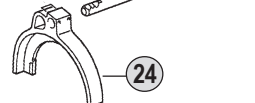


**2nd/1st**

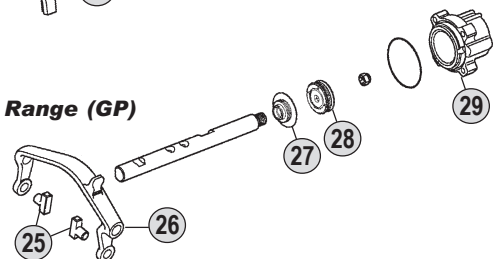


**Shifting Forks**

**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 (1308)						
		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	Planetary 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**

## **EcoLite**

**Truck Applications****6S-850**

## **EcoMid**

**Bus Applications****6S150C****8S180**

## **EcoMid**

**Truck Applications****9S109****16S109****M.A.N.  
INDEX**



suitable to :

# Z.F.

## EcoLite

### 6S-850

**ECOLITE**  
6S-850

### Application

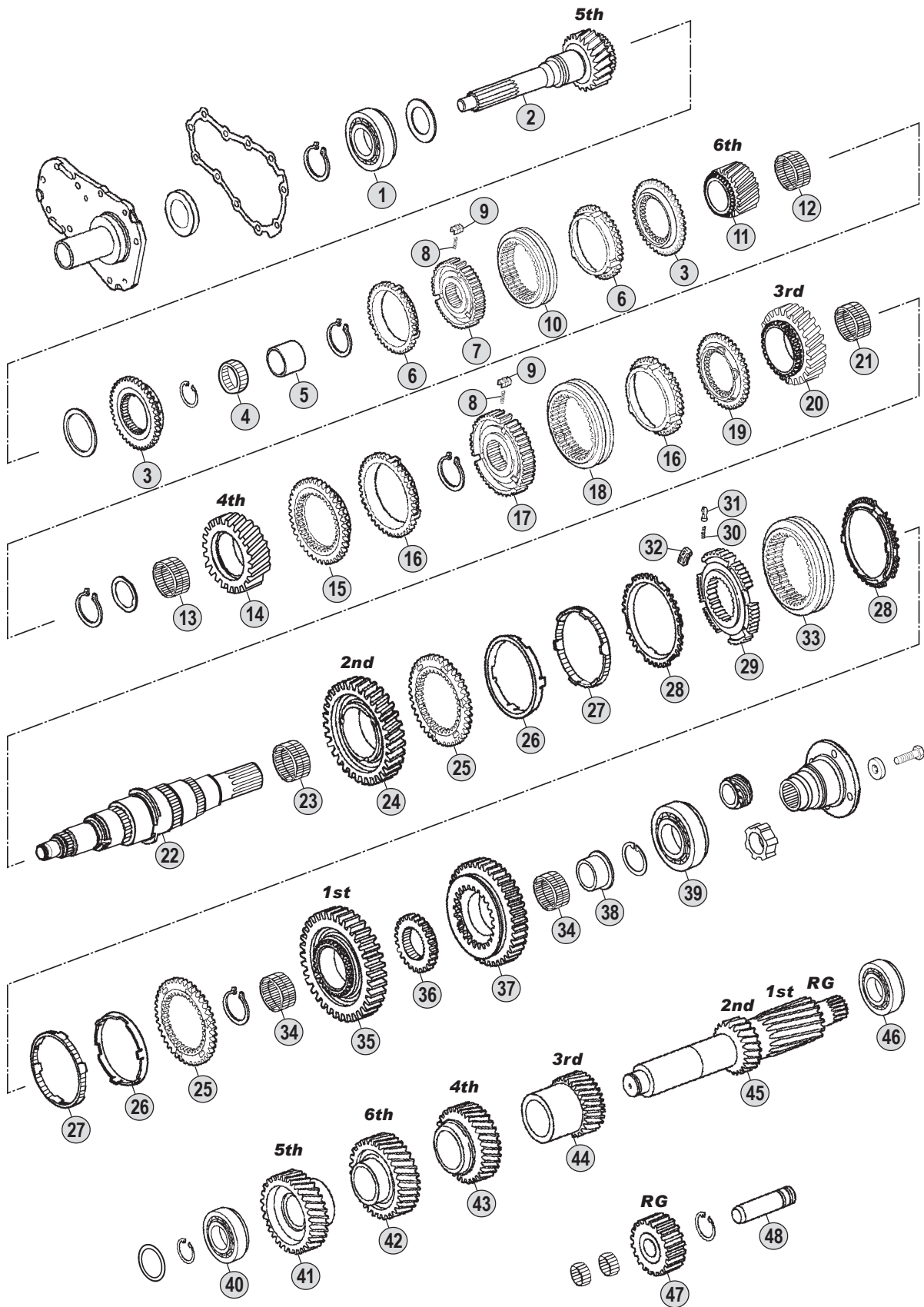
	6S-850 (1290)	5S200 (1322)	6S300 (1323)			
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

### Ratios

Ratio	Note
<b>6,72-0,79</b>	-

Suitable To : **ZF**

**6S-850**



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**Ratios**

**6S-850 Ratio: 6,72 - 0,79**





Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					MAN no.	6S-850	(1290)					
1	130.787	0735 330 685		Bearing	1		●							
2	102.421	1290 302 474		Input shaft	1	A	●							
2	102.424	1290 302 472		Input shaft	1	A	●							
2	102.418	1290 302 486		Input shaft	1	B	●							
2	102.419	1290 302 478		Input shaft	1	B	●							
2	102.420	1290 302 465		Input shaft	1	B	●							
2	102.421	1290 302 490		Input shaft	1	B	●							
2	102.422	1290 302 482		Input shaft	1	B	●							
2	102.423	1290 302 471		Input shaft	1	B	●							
3	109.738	1290 304 482	81 32425 0156	Synchronizer cone	2		●							
4	137.303	0735 358 128	81 93404 0036	Needle bearing	1		●							
5	117.409	0735 295 119	81 93501 0038	Bush	1		●							
6	119.266	1317 304 150	81 32420 0262	Synchronizer ring	2		●							
7	155.243	1317 304 026	81 32420 0261	Synchronizer hub	1		●							
8	156.195	0732 042 510	81 97602 0909	Spring	3	x 2 pcs	●							
9	188.231	1317 304 081	81 32510 0067	Pressure Piece	3	x 2 pcs	●							
10	154.415	1317 304 126	81 32402 0206	Sliding sleeve	1		●							
11	145.963	1290 304 548		Gear 6th Speed	1	A	●							
11	146.656	1290 304 547	81 32302 0130	Gear 6th Speed	1	B	●							
12	137.304	0735 321 527		Needle bearing	1		●							
13	137.306	0735 321 528		Needle bearing	1		●							
14	146.657	1290 304 574	82 32302 0004	Gear 4th Speed	1		●							
15	109.739	1290 304 508	81 32425 0153	Synchronizer cone	1		●							
16	119.267	1317 304 114	81 32420 0260	Synchronizer ring	2		●							
17	155.244	1317 304 031	81 32425 0152	Synchronizer hub	1	Old type	(@)	●						
17	155.247	1290 304 619		Synchronizer hub	1		(#)	●						
18	154.416	1317 304 125	81 32402 0205	Sliding sleeve	1		●							
19	109.740	1290 304 509	81 32425 0150	Synchronizer cone	1		●							
20	146.658	1290 304 581	81 32302 0151	Gear 3rd Speed	1		AB	●						
21	137.307	0735 321 529		Needle bearing	1		●							
22	103.210	1290 304 571	82 32202 0002	Main shaft	1	Old type	(@)	●						
22	103.216	1290 304 620		Main shaft	1		(#)	●						
23	137.308	0735 321 530		Needle bearing	1		●							
24	146.665	1290 304 485		Gear 2th Speed	1	A	●							
24	146.659	1290 304 487	81 32302 0127	Gear 2nd Speed	1	B	●							
25	109.407	1304 304 623	81 32425 0151	Synchronizer Cone	2		●							
26	119.221	1290 304 350	81 32420 0256	Internal Ring	2		●							
27	119.268	1290 304 366	81 32420 0263	Synchronizer ring	2		●							
28	119.223	1290 304 438	81 32420 0258	Outer Ring	2		●							
29	157.713	1304 304 687	81 32450 0259	Synchronizer Hub	1		●							
30	156.140	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●							
31	160.189	1297 304 436	81 32510 0013	Pressure Piece	3		●							
32	156.176	1312 304 159	81 38108 0005	Pad	3		●							
33	154.373	6002 305 994	81 32402 0204	Sliding Sleeve	1		●							
34	137.305	0735 321 531	81 93402 0092	Needle cage	2		●							

## Notes

- (A-B) Respect the coupling as the assembling.  
 (@) Old type, respect the coupling as the assembling.  
 (#) New type, respect the coupling as the assembling.

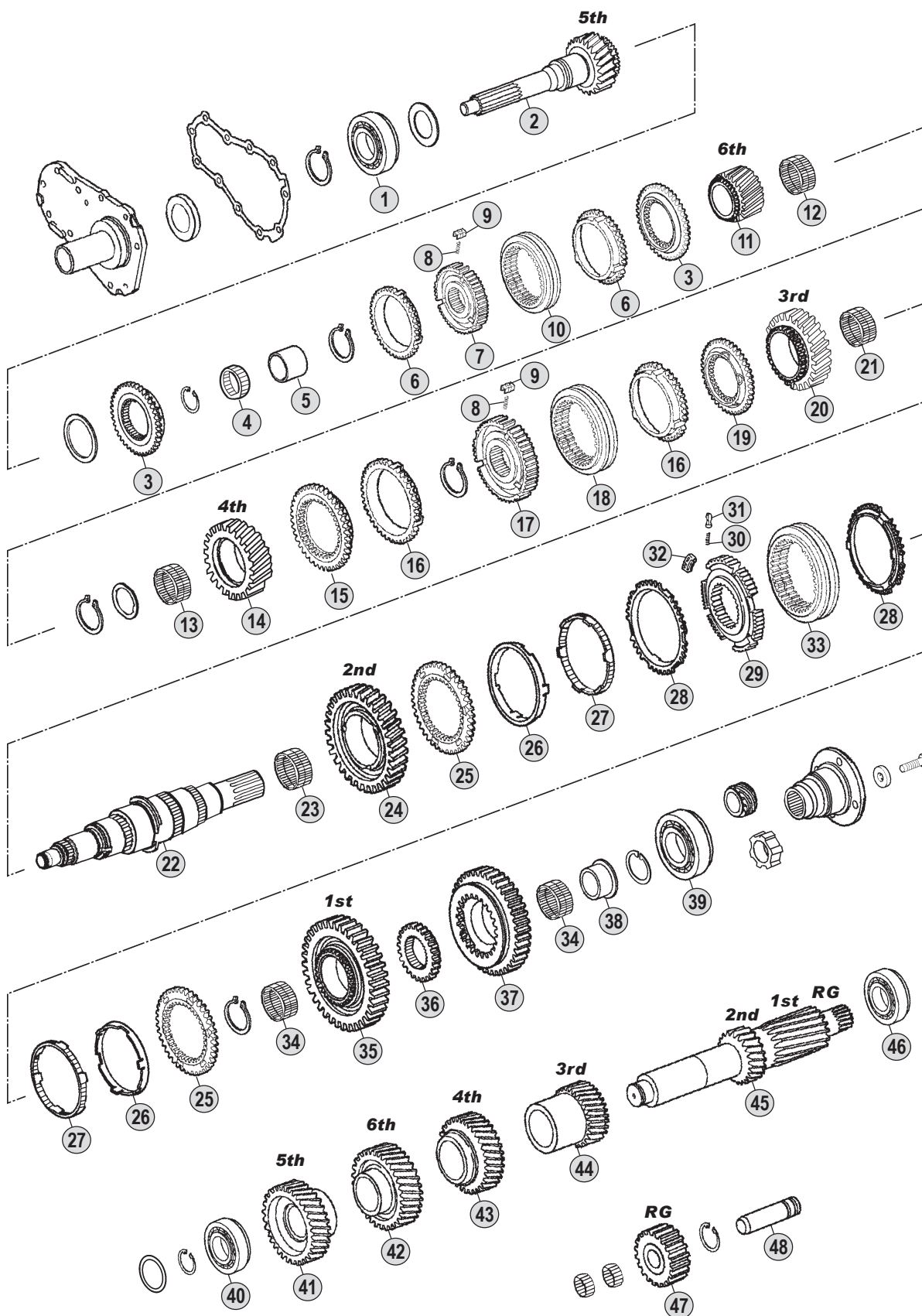
## Date

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## Table

0025

Suitable To : **ZF**



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Ratios

6S-850 Ratio: 6,72 - 0,79

6S-850 (1290)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	MAN no.									
35	<b>146.660</b>	1290 304 572	82 32302 0002	Gear 1st Speed	1			●				
36	<b>157.991</b>	1290 304 573	82 32425 0008	Reverse hub	1			●				
37	<b>147.251</b>	1290 304 058	81 32301 0535	Reverse Gear 35 T	1			●				
38	117.410	1290 304 056	81 93001 0277	Bush	1			●				
39	130.788	0750 116 373	06 31461 4900	Bearing	1			●				
40	130.789	0735 371 607	81 93420 0156	Bearing	1			●				
41	146.667	1290 303 203		Gear 5th Speed	1		A	●				
41	<b>146.661</b>	1290 303 200	81 32302 0125	Gear 5th Speed	1		B	●				
42	146.668	1290 303 204		Gear 6th Speed	1		A	●				
42	<b>146.662</b>	1290 303 199	81 32302 0124	Gear 6th Speed 53 T	1		B	●				
43	<b>146.663</b>	1290 303 198	81 32302 0123	Gear 4th Speed	1			●				
44	146.666	1290 303 202		Gear 3rd Speed 22 T	1		A	●				
44	<b>146.664</b>	1290 303 197	81 32302 0122	Gear 3rd Speed	1		B	●				
45	105.223	1290 203 042		Countershaft	1		A	●				
45	<b>105.222</b>	1290 203 039	81 32206 0125	Countershaft	1		B	●				
46	130.790	0735 370 438		Bearing	1			●				
47	147.252	1290 305 034	81 32315 0061	Reverse gear	1			●				
48	103.213	1290 305 028	81 32523 0126	Reverse pin	1			●				

ECOLITE  
6S-850

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## Notes

- (A-B) Respect the coupling as the assembling.  
 (@) Old type, respect the coupling as the assembling.  
 (#) New type, respect the coupling as the assembling.

## Date

07 / 2006

## Table

0025



suitable to :

# Z.F.

## EcoLite

### S6-85

**ECOLITE**  
S6-85

### Application

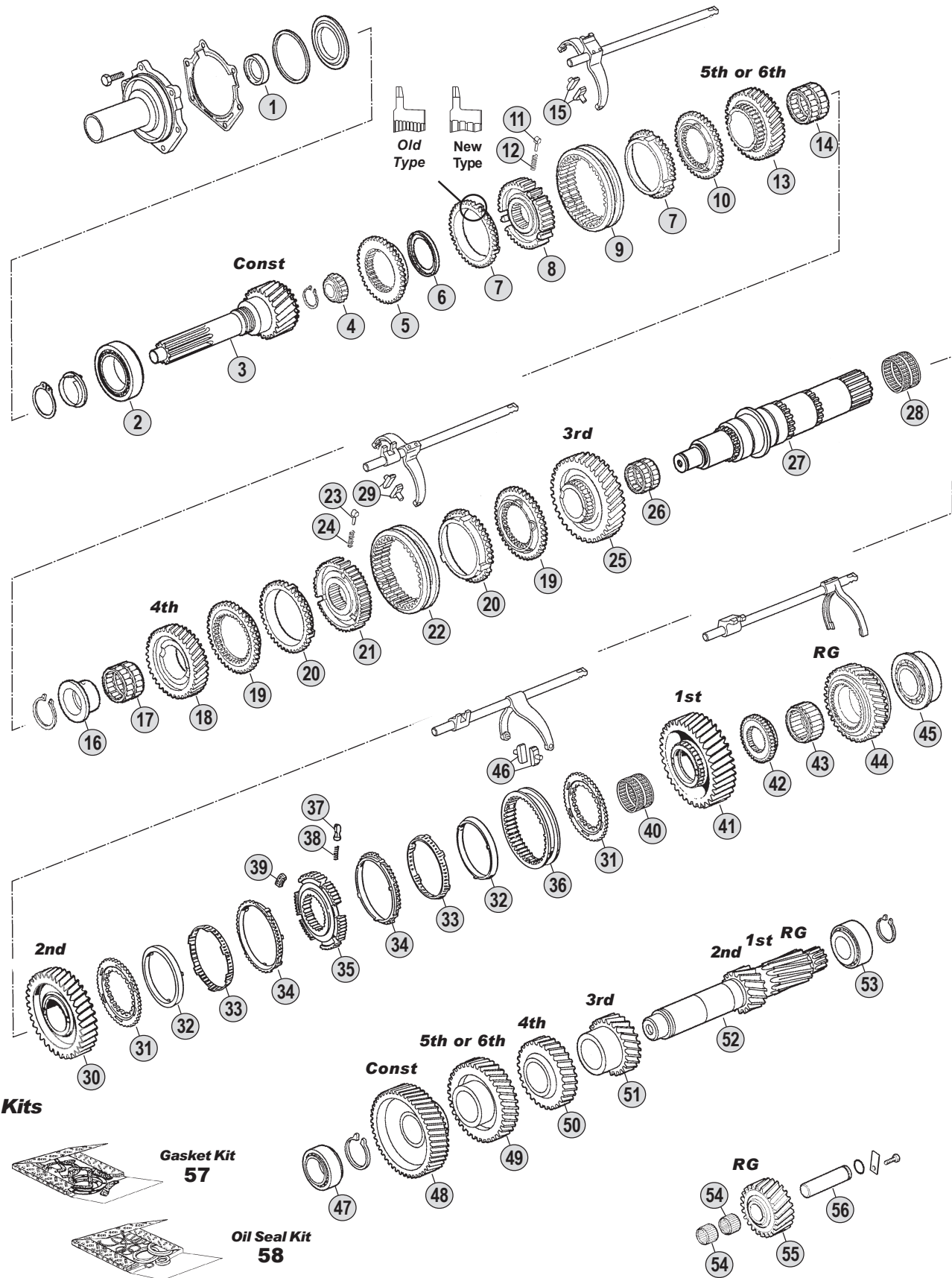
	S6-85	6S-1600				
	(1310)	(1310)				
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

### Ratios

Ratio	Note
<b>6,75-0,83</b>	<b>A</b>
<b>7,72-1,00</b>	<b>B</b>

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	S6-85 (1310)				
		ZF no.	M.A.N. no.									
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	<b>102.391</b>	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	<b>109.400</b>	1310 302 023	81 32425 0124	Synchronizer Cone	1		A	●				
5	<b>109.401</b>	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	<b>119.220</b>	1311 304 255	81 32420 0231	Synchronizer Ring	2	New Type	●					
8	<b>157.706</b>	1311 304 226	81 32420 0191	Synchronizer Hub	1		●					
9	<b>154.363</b>	1304 304 664	81 32402 0166	Sliding Sleeve	1		●					
10	<b>109.402</b>	1311 304 009	81 32425 0108	Synchronizer Cone	1		●					
11	<b>160.189</b>	1297 304 436	81 32510 0013	Pressure Piece	3		●					
12	<b>156.140</b>	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	<b>141.194</b>	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	<b>109.134</b>	1312 304 027	81 32425 0092	Synchronizer Cone	2		●					
20	<b>119.119</b>	1297 304 402	81 32420 0146	Synchronizer Ring	2	Old Type	●					
20	<b>119.167</b>	1297 304 484	81 32420 0230	Synchronizer Ring	2	New Type	●					
21	<b>157.707</b>	1310 304 080	81 32420 0226	Synchronizer Hub	1		●					
22	<b>154.135</b>	1310 304 202	81 32402 0197	Sliding Sleeve	1		●					
23	<b>160.189</b>	1297 304 436	81 32510 0013	Pressure Piece	3		●					
24	<b>156.140</b>	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	<b>141.194</b>	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	<b>109.176</b>	1312 304 106	81 32425 0103	Synchronizer Cone	2		●					
32	<b>119.152</b>	1268 304 424	81 32420 0163	Intermediate synchro ring	2		●					
33	<b>119.153</b>	1268 304 494	81 30120 0051	Intermediate synchro ring	2		●					

Notes

Date

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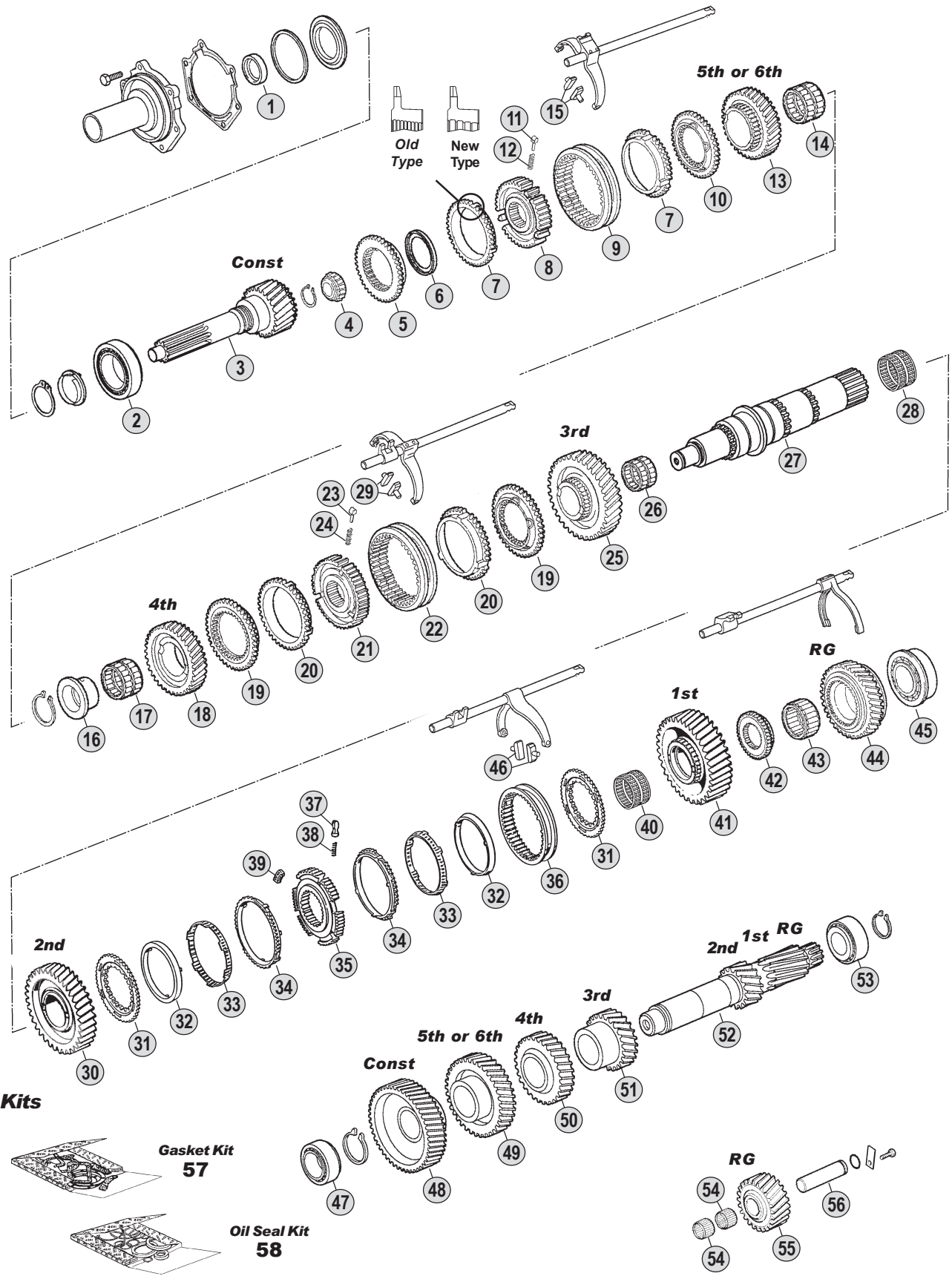
Table

0030

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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)			
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

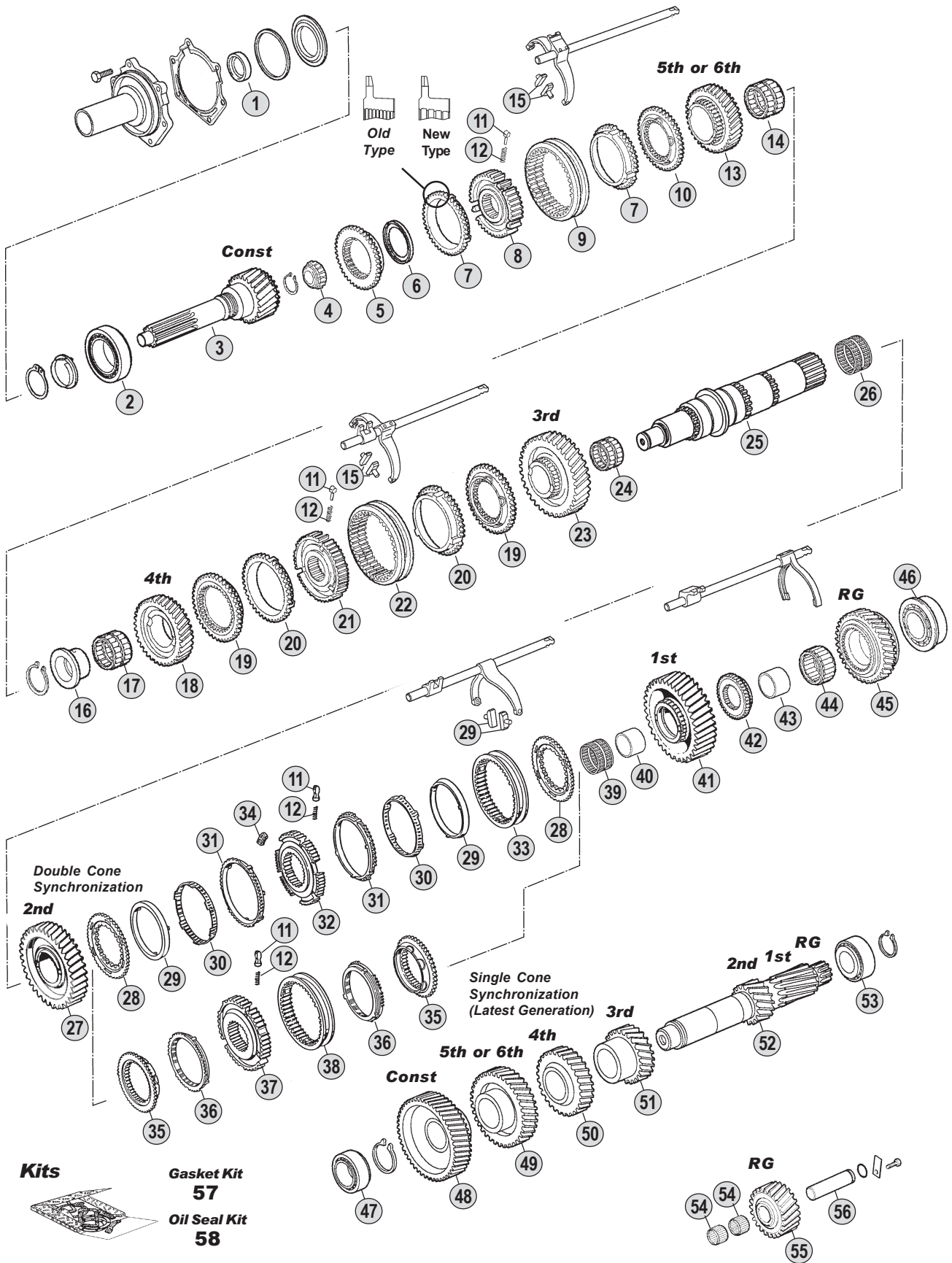
	S6-85 (1310)	6S-1600 (1310)				
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

### Ratios

Ratio	Note
<b>6,32-0,81</b>	<b>A</b>
<b>7,72-1,00</b>	<b>B</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	<b>102.396</b>	1310 302 089	81 32205 0279	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	<b>137.150</b>	0750 117 232	81 93501 0080	Roller Cage D.42x81x40,30	1		●							
5	<b>109.403</b>	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	<b>119.142</b>	1268 304 594	82 32420 0012	Synchronizer Ring	2	New Type	●							
8	<b>157.710</b>	1310 304 158	81 32420 0232	Mozzo sincronizzatore	1		●							
9	<b>154.371</b>	1310 304 195	81 32402 0192	Sliding Sleeve	1		●							
10	<b>109.404</b>	1310 304 161	81 32425 0138	Synchronizer Cone	1		●							
11	<b>160.189</b>	1297 304 436	81 32510 0013	Pressure Piece	3		●							
12	<b>156.140</b>	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●							
13	<b>145.894</b>	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 321 560	81 93402 0145	Needle Cage D.65x73x48	1		●							
15	<b>141.194</b>	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	<b>145.896</b>	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	<b>109.134</b>	1312 304 027	81 32425 0092	Synchronizer Cone	2		●							
20	<b>119.119</b>	1297 304 402	81 32420 0146	Synchronizer Ring	2	Old Type	●							
20	<b>119.167</b>	1297 304 484	81 32420 0230	Synchronizer Ring	2	New Type	●							
21	<b>157.180</b>	1312 304 052	81 32420 0151	Synchronizer Hub	1		●							
22	<b>154.135</b>	1310 304 202	81 32402 0197	Sliding Sleeve	1		●							
23	<b>145.898</b>	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	<b>103.196</b>	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	<b>145.900</b>	1310 304 196	81 32302 0014	Gear 2nd Speed 43 T	1		●							
28	<b>109.176</b>	1312 304 106	81 32425 0103	Synchronizer Cone	2		●							
29	<b>119.152</b>	1268 304 424	81 32420 0163	Intermediate synchro ring	2		●							
30	<b>119.153</b>	1268 304 494	81 30120 0051	Intermediate synchro ring	2		●							
31	<b>119.144</b>	1268 304 525	81 32420 0161	Synchronizer Ring	2		●							
32	<b>157.181</b>	1312 304 158	81 32420 0181	Synchronizer Hub	1		●							
33	<b>154.190</b>	1310 304 175	81 32402 0191	Sliding Sleeve	1		●							

## Notes

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

## Date

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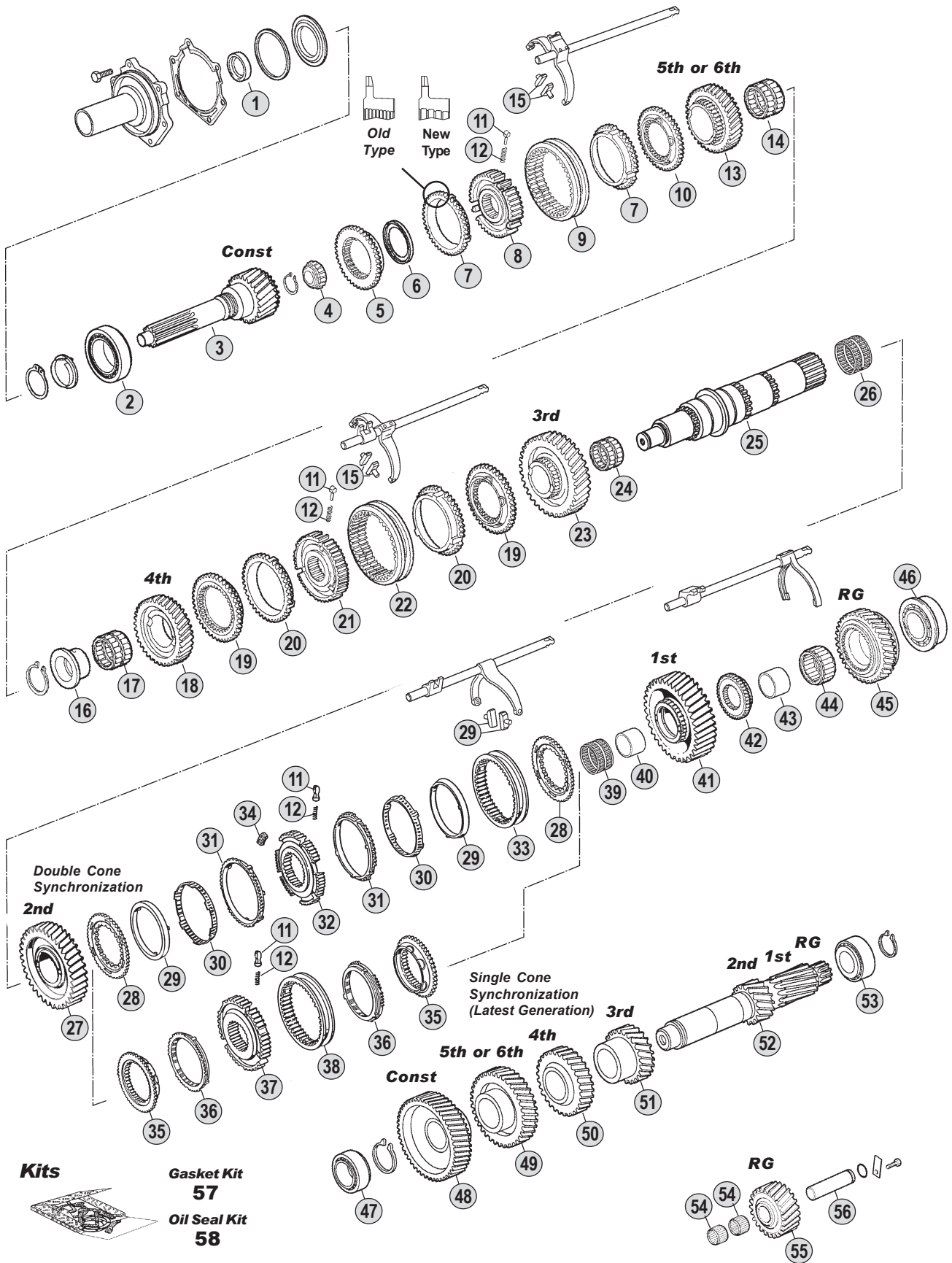
## Table

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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

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## Table

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suitable to :

# Z.F.

## EcoMid

### 6S150C

**ECOMID**  
 6S150C

### Application

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

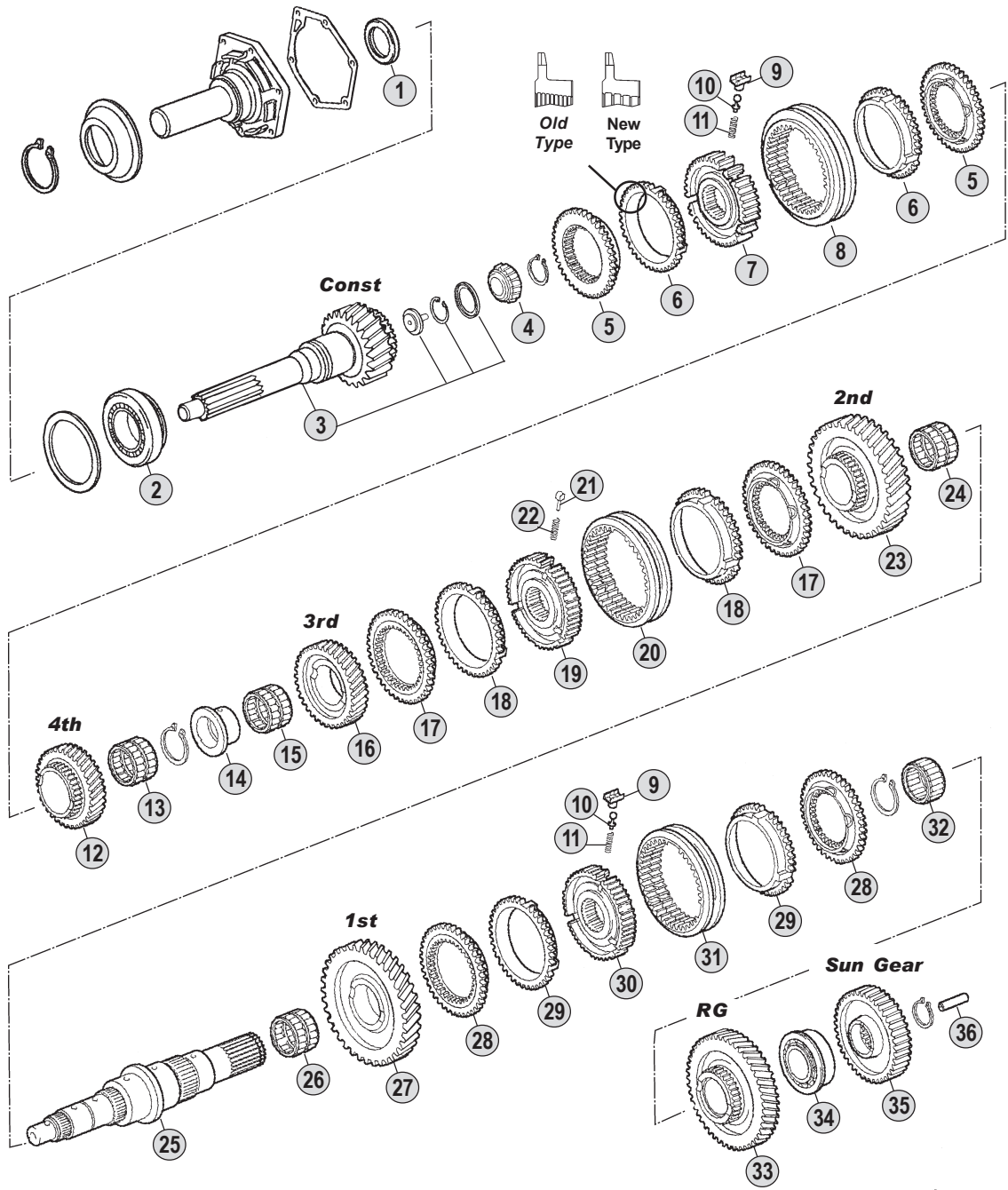
### Ratios

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

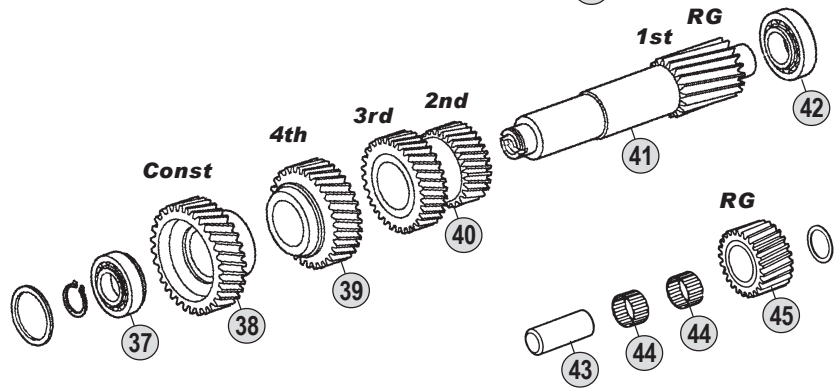
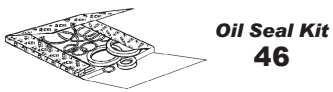
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Suitable To : **ZF**

**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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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	102.429	1304 202 186		Input shaft 28 T	1	(1)	A	●			
3	102.430	1304 202 188		Input shaft 28 T	1	(2)	A	●			
3	<b>102.345</b>	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	102.431	1304 202 182		Input shaft 25 T	1	(1)	CD	●			
3	102.432	1304 202 247		Input shaft 25 T	1	(1)	CD	●			
3	102.433	1304 202 184		Input shaft 25 T	1	(2)	CD	●			
3	<b>102.346</b>	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	<b>109.391</b>	1304 304 660	81 32425 0089	Synchronizer Cone	2		●				
6	119.150	1304 304 014	81 32420 0137	Synchronizer Ring	2	Old Type	●				
6	<b>119.169</b>	1304 304 683	81 32420 0235	Synchronizer Ring	2	New Type	●				
7	<b>157.697</b>	1304 304 051	81 32420 0138	Synchronizer Hub	1		●				
8	<b>154.361</b>	6002 305 515	81 32402 0136	Sliding Sleeve	1		●				
9	<b>188.096</b>	1238 304 394	81 32510 0007	Pressure Piece	3		●				
10	<b>160.143</b>	1249 304 222	81 32523 0081	Plunger	3		●				
11	<b>156.140</b>	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●				
12	<b>145.821</b>	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	<b>145.822</b>	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	<b>145.820</b>	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	<b>109.171</b>	1304 304 408	81 32425 0088	Synchronizer Cone	2		●				
18	119.151	1304 304 542	81 32420 0156	Synchronizer Ring	2	Old Type	●				
18	<b>119.170</b>	1304 304 681	82 32420 0013	Synchronizer Ring	2	New Type	●				
19	<b>157.696</b>	1304 304 591	81 32420 0207	Synchronizer Hub	1		●				
20	<b>154.200</b>	1304 304 597	81 32402 0147	Sliding Sleeve	1		●				
21	<b>160.189</b>	1297 304 436	81 32510 0013	Pressure Piece	3		●				
22	<b>156.140</b>	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●				
23	<b>147.222</b>	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	<b>103.190</b>	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	<b>119.072</b>	1238 304 420	81 32420 0061	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

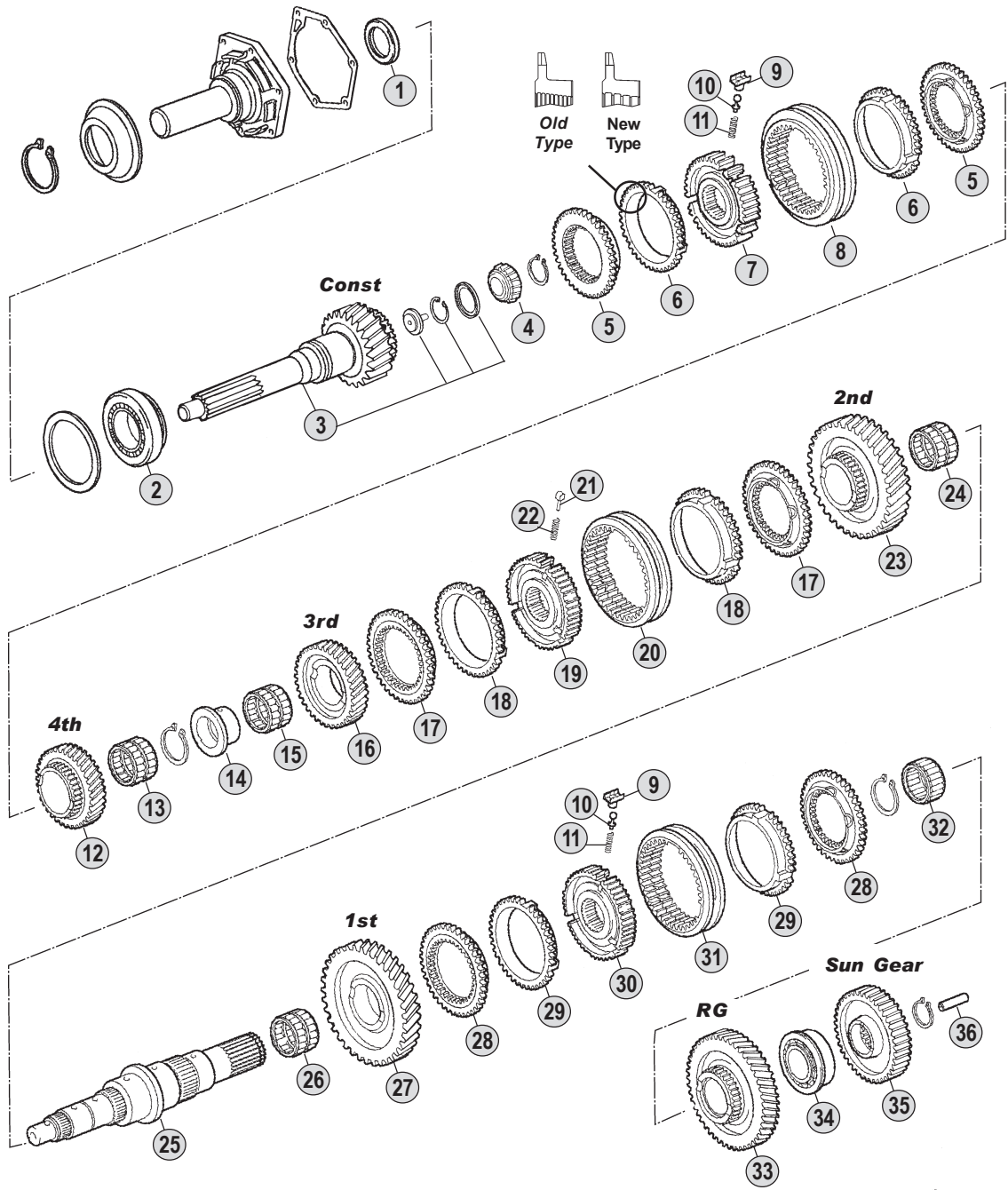
## Table

0050 / A

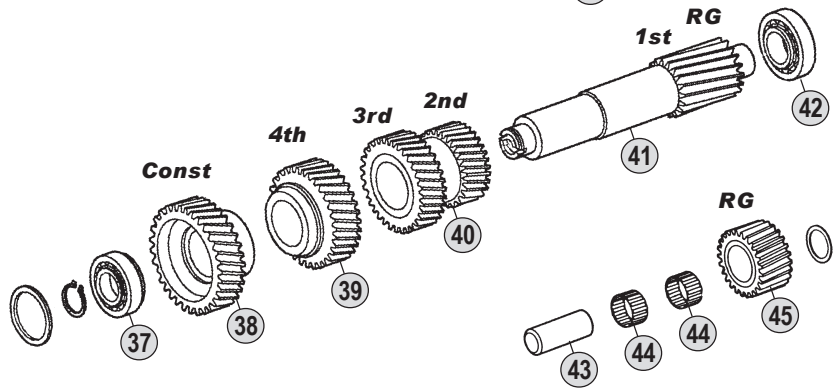
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Suitable To : **ZF**

**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.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	6S150C (13004)			
		ZF no.	M.A.N. no.								
29	<b>119.138</b>	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	<b>146.582</b>	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	<b>147.223</b>	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	<b>143.117</b>	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	<b>298.026</b>	1304 298 908	81 32900 6019	Oil Seal Kit	1		●				
47	<b>198.945</b>	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

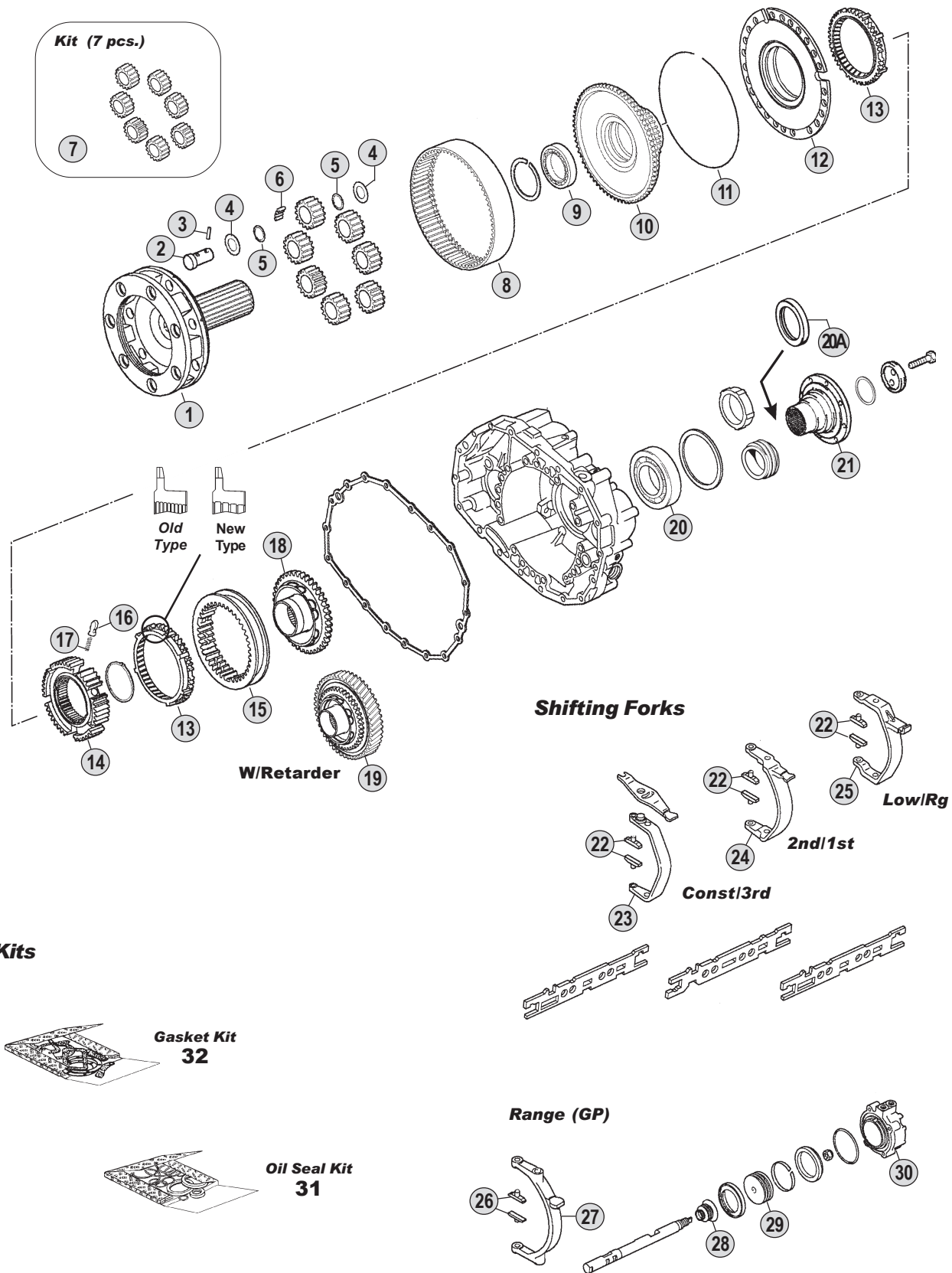
07 / 2006

## 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

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	6S150C (13004)			
		ZF no.	M.A.N. no.								
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		●				

Notes

Date

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Table

0050 / B

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suitable to :

# Z.F.

## EcoMid

### 8S180

**ECOMID**  
8S180

### Application

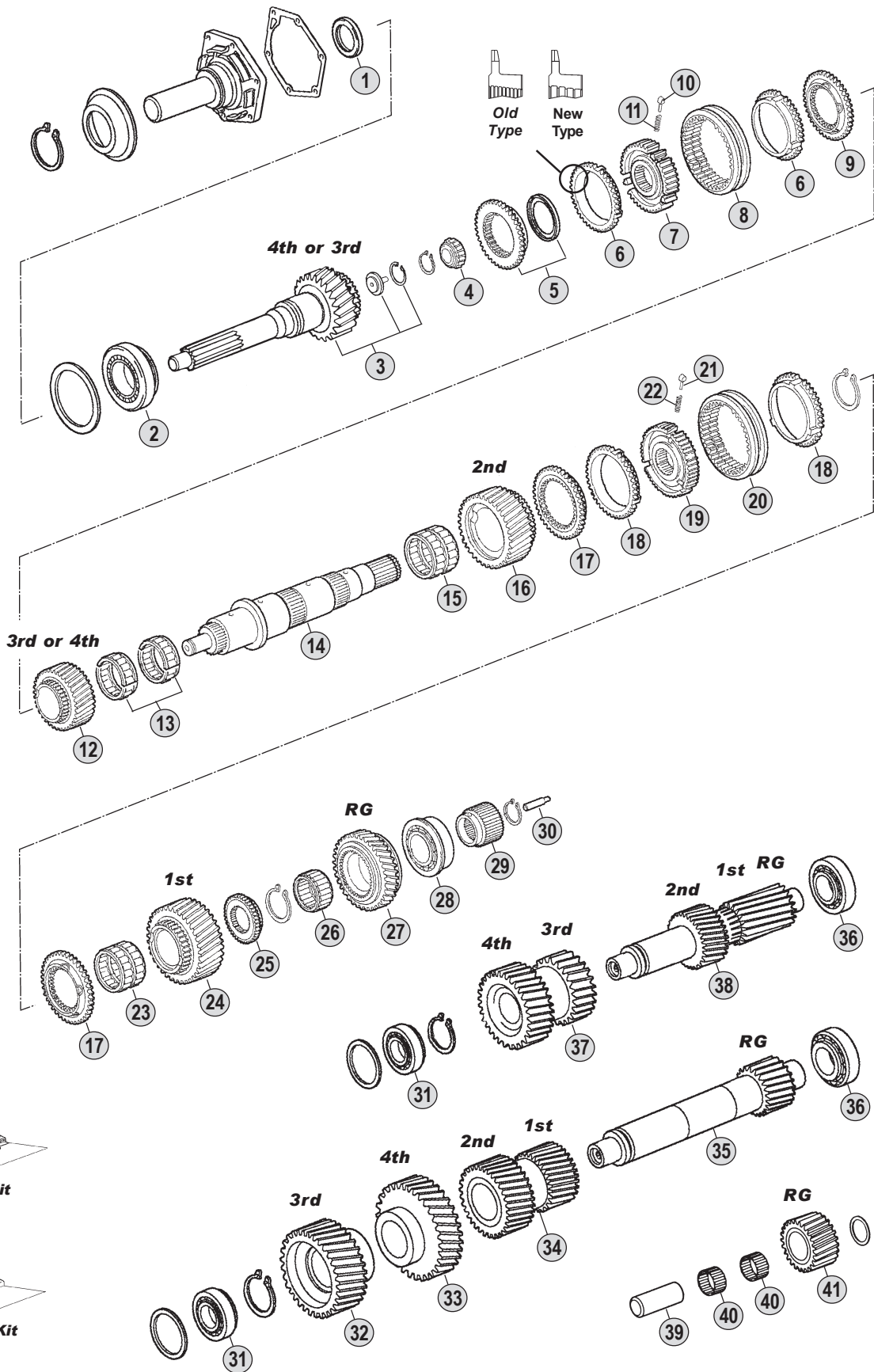
	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

### Ratios

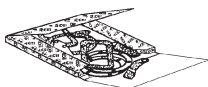
Ratio	Note
<b>6,38-0,76</b>	<b>A</b>
<b>8,73-1,00</b>	<b>B</b>

Suitable To : **ZF**

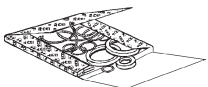
**8S180**



**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	102.425	1304 202 207		Input shaft 29 T	1		●							
3	<b>102.361</b>	1304 202 208	81 32205 6010	Input Shaft 29 T	1		●							
3	102.426	1304 202 210		Input Shaft 29 T	1		●							
3	102.427	1304 202 211		Input Shaft 29 T	1		●							
3	102.349	1304 202 212	81 32205 6011	Input Shaft 29 T	1		●							
3	102.428	1304 202 205		Input shaft	1		●							
4	<b>137.150</b>	0750 117 232	81 93501 0080	Roller Cage D.42x81x40,30	1		●							
5	<b>109.396</b>	1304 202 214	81 32425 0122	Synchronizer Cone	1		●							
6	119.219	1311 304 076	81 32420 0175	Synchronizer Ring	2	Old Type	●							
6	<b>119.220</b>	1311 304 255	81 32420 0231	Synchronizer Ring	2	New Type	●							
7	<b>157.702</b>	1304 304 651	81 32420 0189	Synchronizer Hub	1		●							
8	<b>154.363</b>	1304 304 664	81 32402 0166	Sliding Sleeve	1		●							
9	<b>109.395</b>	1304 302 425	81 32425 0123	Synchronizer Cone	1		●							
10	<b>160.189</b>	1297 304 436	81 32510 0013	Pressure Piece	3		●							
11	<b>156.140</b>	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●							
12	<b>147.233</b>	1304 304 637	81 32301 0879	Gear 4th Speed 24 T	1		●	A						
12	<b>147.231</b>	1304 304 636		Gear 3rd Speed 29 T	1		●	B						
13	137.260	0750 115 430	81 93402 0131	Needle Cage 70x78x60	1		●							
14	<b>103.191</b>	1304 304 604	81 32202 0077	Main Shaft	1		●							
15	137.259	0735 320 378	81 93402 0129	Needle Cage 70x83x55	1		●							
16	<b>145.827</b>	1304 304 582	81 32301 0877	Gear 2nd Speed 29 T	1		●	A						
16	<b>145.825</b>	1304 304 581		Gear 2nd Speed 33 T	1		●	B						
17	<b>109.392</b>	1311 304 015	81 32425 0109	Synchronizer Cone	2		●							
18	119.118	1268 304 445	81 32420 0173	Synchronizer Ring	2	Old Type	●							
18	<b>119.142</b>	1268 304 594	82 32420 0012	Synchronizer Ring	2	New Type	●							
19	<b>157.700</b>	1304 304 576	81 32420 0185	Synchronizer Hub	1		●							
20	<b>154.200</b>	1304 304 597	81 32402 0147	Sliding Sleeve	1		●							
21	<b>160.189</b>	1297 304 436	81 32510 0013	Pressure Piece	3		●							
22	<b>156.140</b>	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	<b>147.232</b>	1304 304 587	81 32301 0878	Gear 1st Speed 33 T	1		●	A						
24	<b>147.229</b>	1304 304 586		Gear 1st Speed 38 T	1		●	B						
25	<b>109.172</b>	1304 304 007	81 32425 0097	Synchronizer Cone	1		●							
26	137.147	0750 115 225	81 93404 0044	Needle Cage D.60x68x39	1		●							
27	<b>147.230</b>	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	<b>157.701</b>	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	<b>146.586</b>	1304 303 294	81 32301 0876	Gear 3rd Speed 31 T	1		●	A						
33	<b>147.234</b>	1304 303 293	81 32301 0875	Gear 4th Speed 34 T	1		●	A						
34	<b>143.121</b>	1304 303 292	81 32303 0034	Double Gear 19/23 T	1		●	A						

Notes

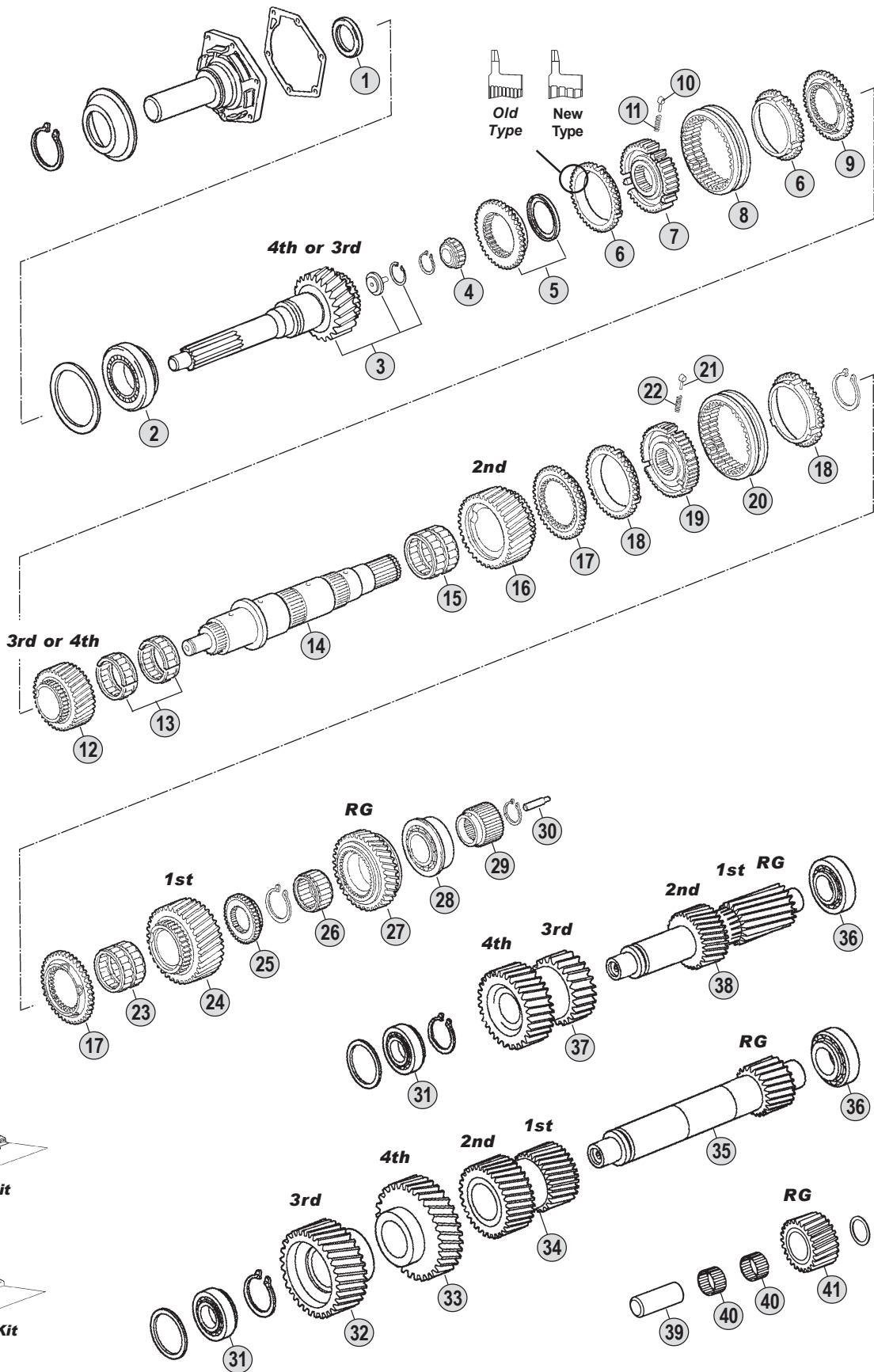
Date

07 / 2006

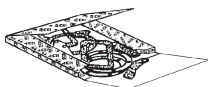
Table

0060 / A

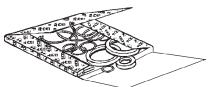
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**Kits**



**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.																	
35	105.186	1304 303 291	81 32206 0099	Countershaft 16 T	1		A	●												
36	130.234	0750 117 083	81 93420 6029	Bearing D.50,8x95,2x27,7	1			●												
37	143.120	1304 303 289		Double Gear 23/31 T	1		B	●												
38	105.185	1304 303 322		Countershaft 16/19 T	1		B	●												
39	107.156	1304 305 030	81 91001 0549	Reverse Shaft	1			●												
40	137.143	0735 358 192	81 93404 0047	Needle Cage D.40x60x26	2			●												
41		1304 305 043	91 32315 0056	Reverse Gear 22 T	1			●												
42	298.027	1304 298 939	81 32900 6044	Oil Seal Kit	1			●												
43	198.945	1304 298 914	81 32900 6018	Gasket Kit	1			●												

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**ECOMID**  
8S180

Notes

Date

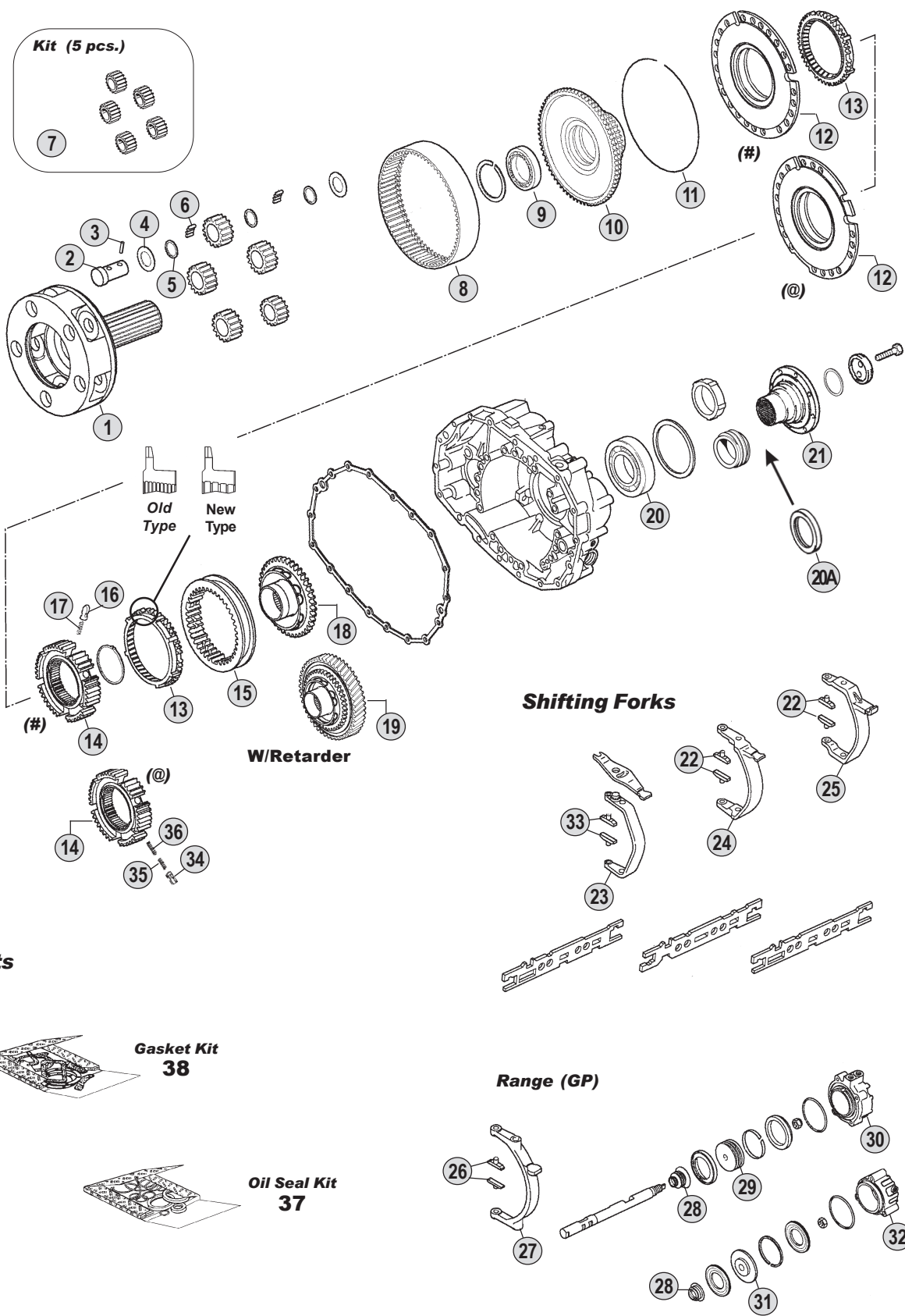
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Table

0060 / A

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.	M.A.N. no.					8S180	(1304)					
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	150.213	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

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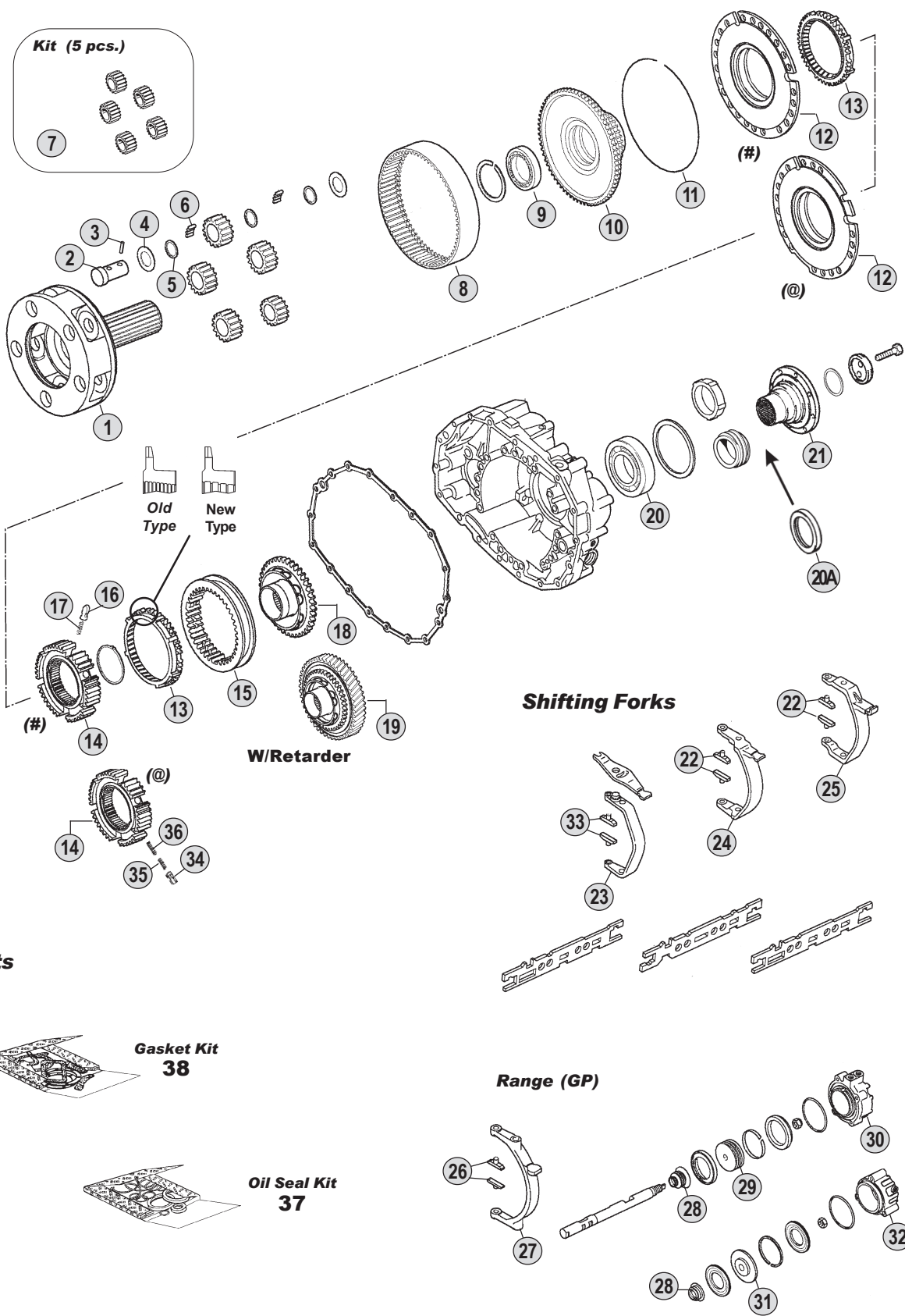
## Table

0060 / B

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Suitable To : **ZF**

**8S180**



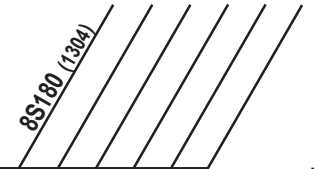
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**Ratios**

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







**ECOMID**  
8S180

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Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	8S180 (1304)					
		ZF no.	M.A.N. no.										
27		1304 334 063	84 32516 0001	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		1315 334 041	81 32639 0064	Piston	1		(@)	●					
32		1304 334 079	81 32638 0039	Cylinder	1		(@)	●					
33	141.195	1304 306 107	81 32526 0033	Slide	2		A	●					
33	141.194	1290 306 066	81 32526 0027	Bronze Slide	2		B	●					
34	160.116	1240 304 278	81 32510 0005	Pressure Piece	9		(@)	●					
35	156.037	0732 040 385	81 97601 0757	Outer Spring De.6x34	9		(@)	●					
36	156.036	0732 040 386	81 97601 0758	Inner Spring De.3x34	9		(@)	●					
37	298.027	1304 298 939	81 32900 6044	Oil Seal Kit	1			●					
38	198.945	1304 298 914	81 32900 6018	Gasket Kit	1			●					

Notes

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

Date

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Table

0060 / B





suitable to :

# Z.F.

## EcoMid

### 9S109

**ECOMID**  
9S109

### Application

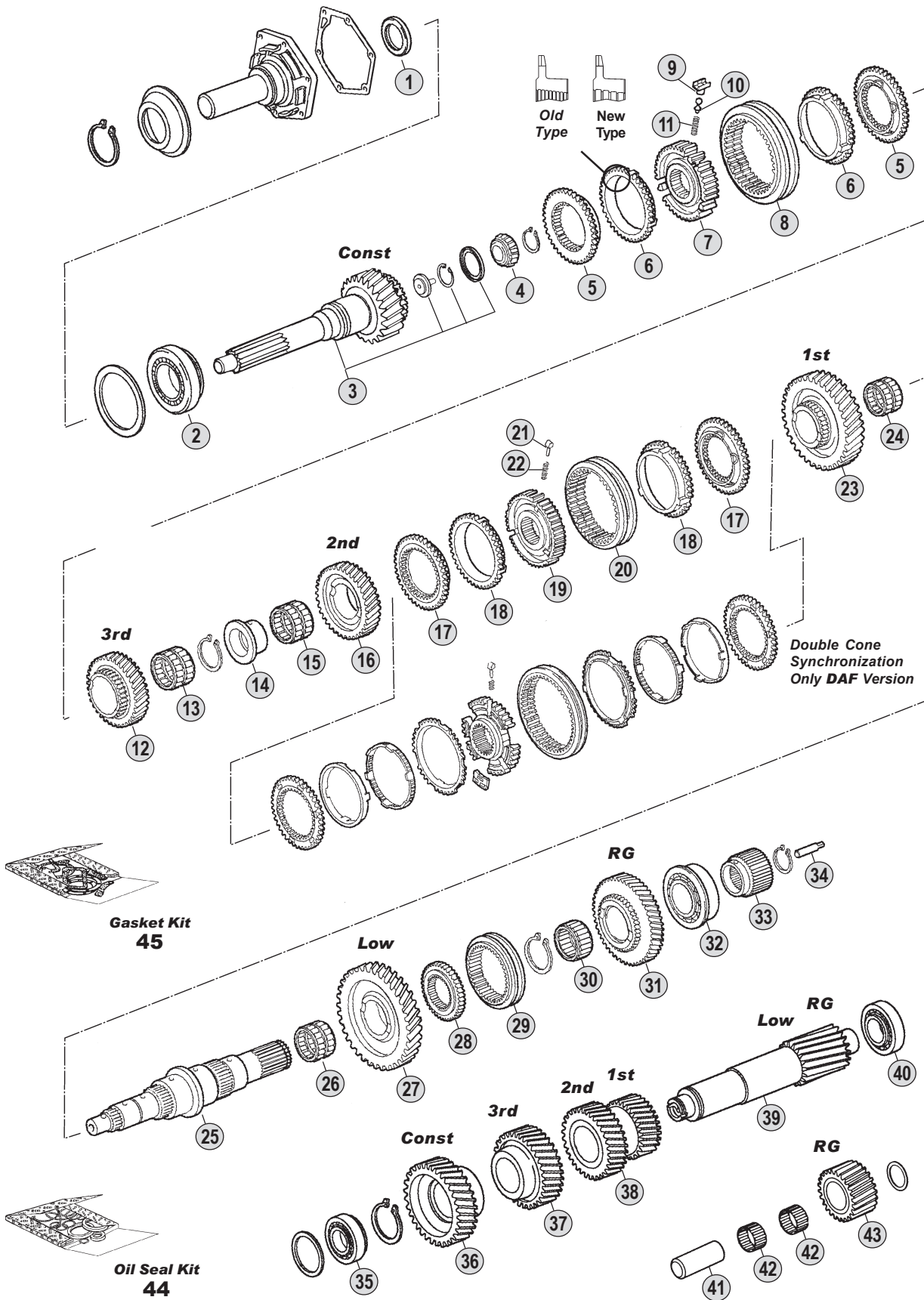
	6S150C	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

### Ratios

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

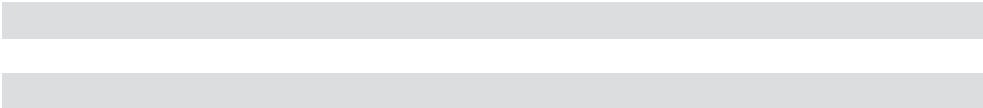
Suitable To : **ZF**

**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.	M.A.N. no.					9S109				
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	<b>102.352</b>	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	<b>102.355</b>	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	<b>102.347</b>	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	<b>109.391</b>	1304 304 660	81 32425 0089	Synchronizer Cone	2		●					
6	119.150	1304 304 014	81 32420 0137	Synchronizer Ring	2	Old Type	●					
6	<b>119.169</b>	1304 304 683	81 32420 0235	Synchronizer Ring	2	New Type	●					
7	<b>157.697</b>	1304 304 051	81 32420 0138	Synchronizer Hub	1		●					
8	<b>154.361</b>	6002 305 515	81 32402 0136	Sliding Sleeve	1		●					
9	<b>188.096</b>	1238 304 394	81 32510 0007	Pressure Piece	3		●					
10	<b>160.143</b>	1249 304 222	81 32523 0081	Plunger	3		●					
11	<b>156.140</b>	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●					
12	<b>145.832</b>	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	<b>145.824</b>	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	<b>145.831</b>	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	<b>145.823</b>	1304 304 499	81 32301 0744	Gear 2nd Speed 29 T	1		D ●					
17	<b>109.171</b>	1304 304 408	81 32425 0088	Synchronizer Cone	2		●					
18	119.151	1304 304 542	81 32420 0156	Synchronizer Ring	2	Old Type	●					
18	<b>119.170</b>	1304 304 681	82 32420 0013	Synchronizer Ring	2	New Type	●					
19	<b>157.696</b>	1304 304 591	81 32420 0207	Synchronizer Hub	1		●					
20	<b>154.200</b>	1304 304 597	81 32402 0147	Sliding Sleeve	1		●					
21	<b>160.189</b>	1297 304 436	81 32510 0013	Pressure Piece	3		●					
22	<b>156.140</b>	0732 040 409	81 97601 0895	Spring D.6,5x23,5	3		●					
23	<b>145.830</b>	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	<b>147.227</b>	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	<b>103.190</b>	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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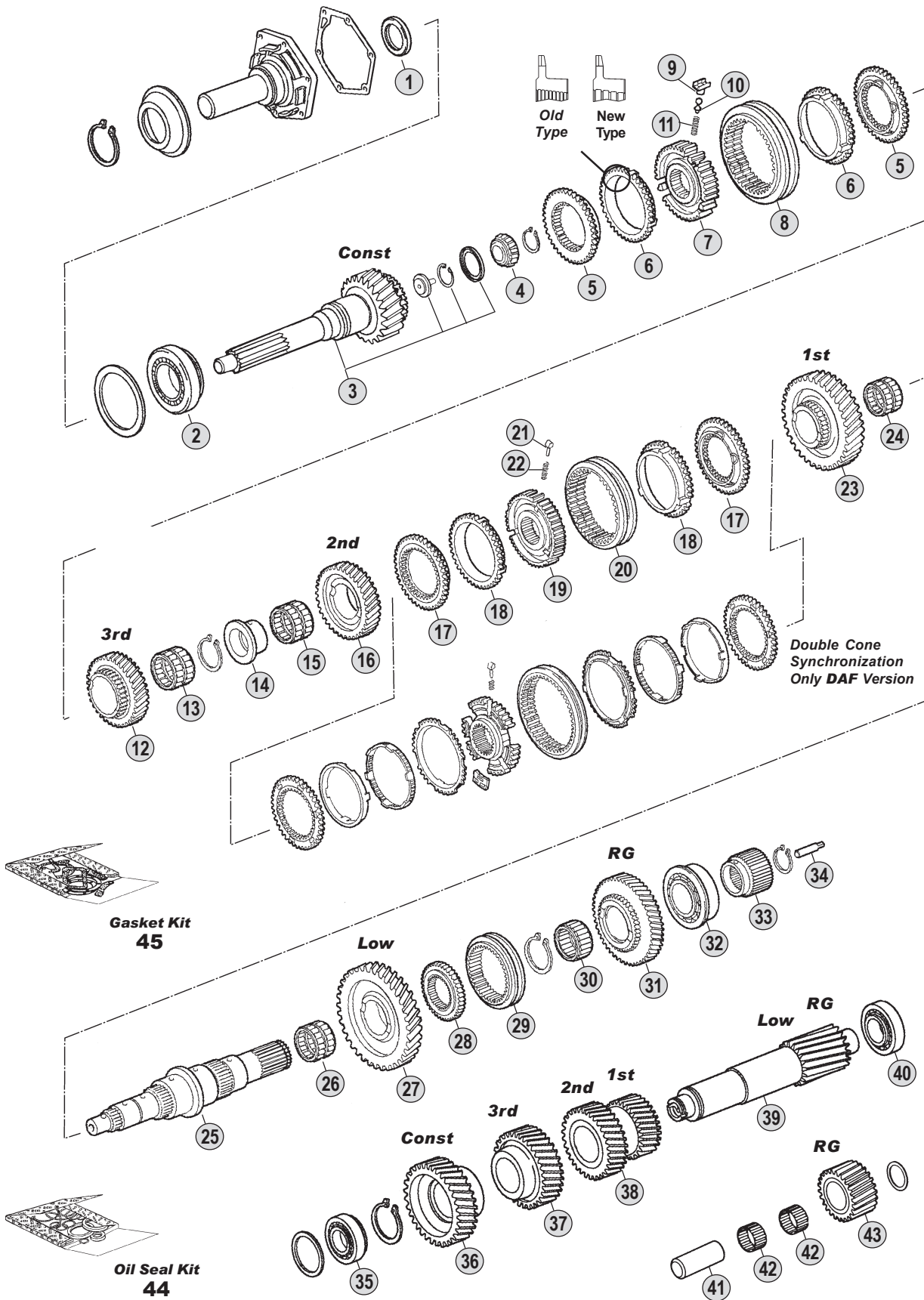
Table

0070 / A

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Suitable To : **ZF**

**9S109**



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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	<b>145.829</b>	1304 304 428				AB	●					
27	145.833	1304 304 543	81 32302 0143			C	●					
27	<b>145.828</b>	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	<b>147.235</b>	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	<b>146.588</b>	1304 303 285				AB	●					
36	<b>146.584</b>	1304 303 272	81 32301 0740			CD	●					
37	<b>146.587</b>	1304 303 210				A	●					
37	146.590	1304 303 171				B	●					
37	146.589	1304 303 287	81 32302 0142			C	●					
37	<b>147.228</b>	1304 303 244	81 32301 0739			D	●					
38	<b>143.122</b>	1304 303 209				A	●					
38	143.125	1304 303 172				B	●					
38	143.123	1304 303 286	81 32303 0035			C	●					
38	<b>143.119</b>	1304 303 243	81 32303 0032			D	●					
39	<b>105.187</b>	1304 303 269				AB	●					
39	105.188	1304 303 268	81 32206 0145			C	●					
39	<b>105.184</b>	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	<b>298.026</b>	1304 298 908	81 32900 6019				●					
45	<b>198.945</b>	1304 298 914	81 32900 6018				●					

Notes

Date

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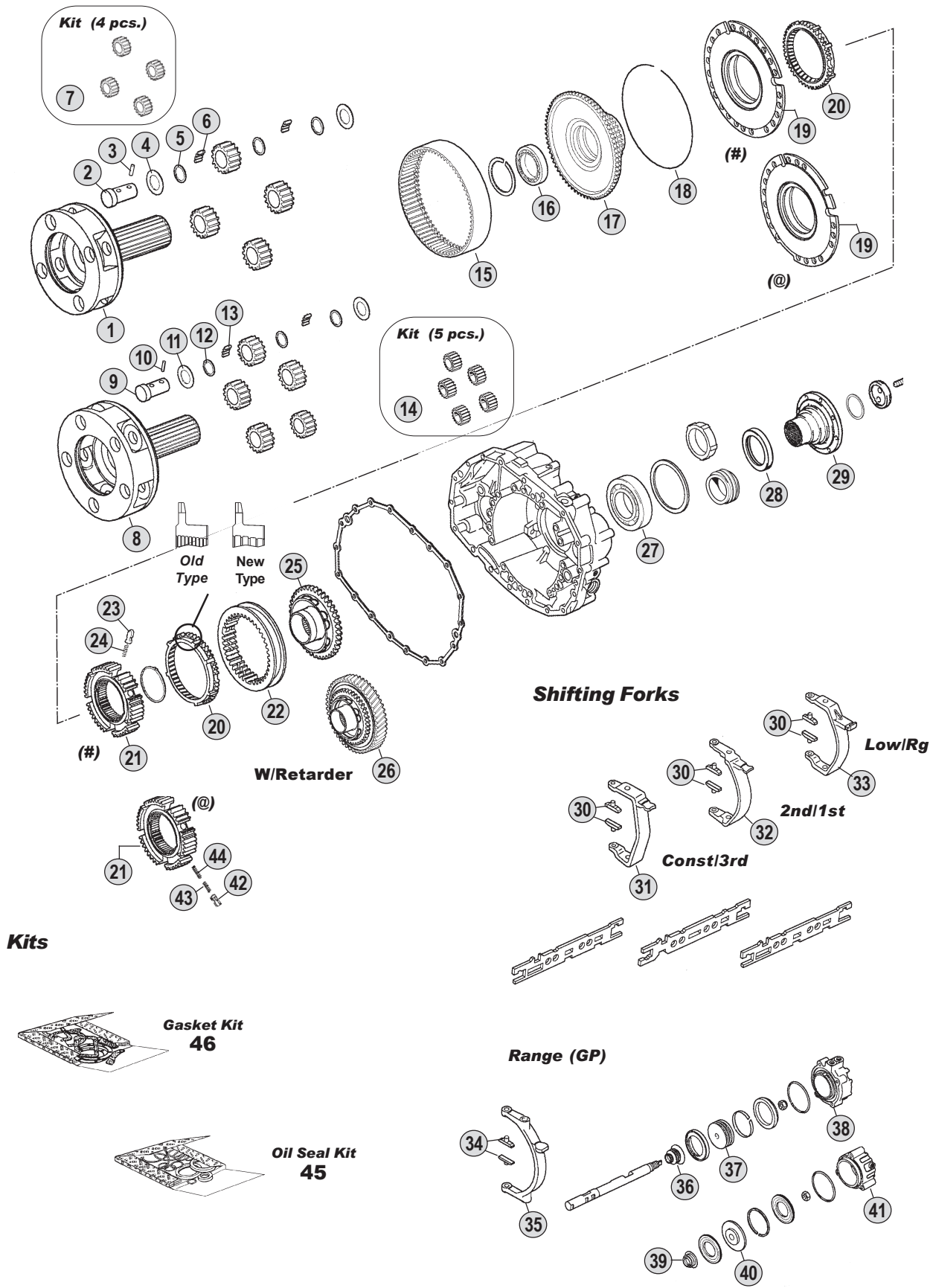
Table

0070 / 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.	M.A.N. no.					9S109				
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**

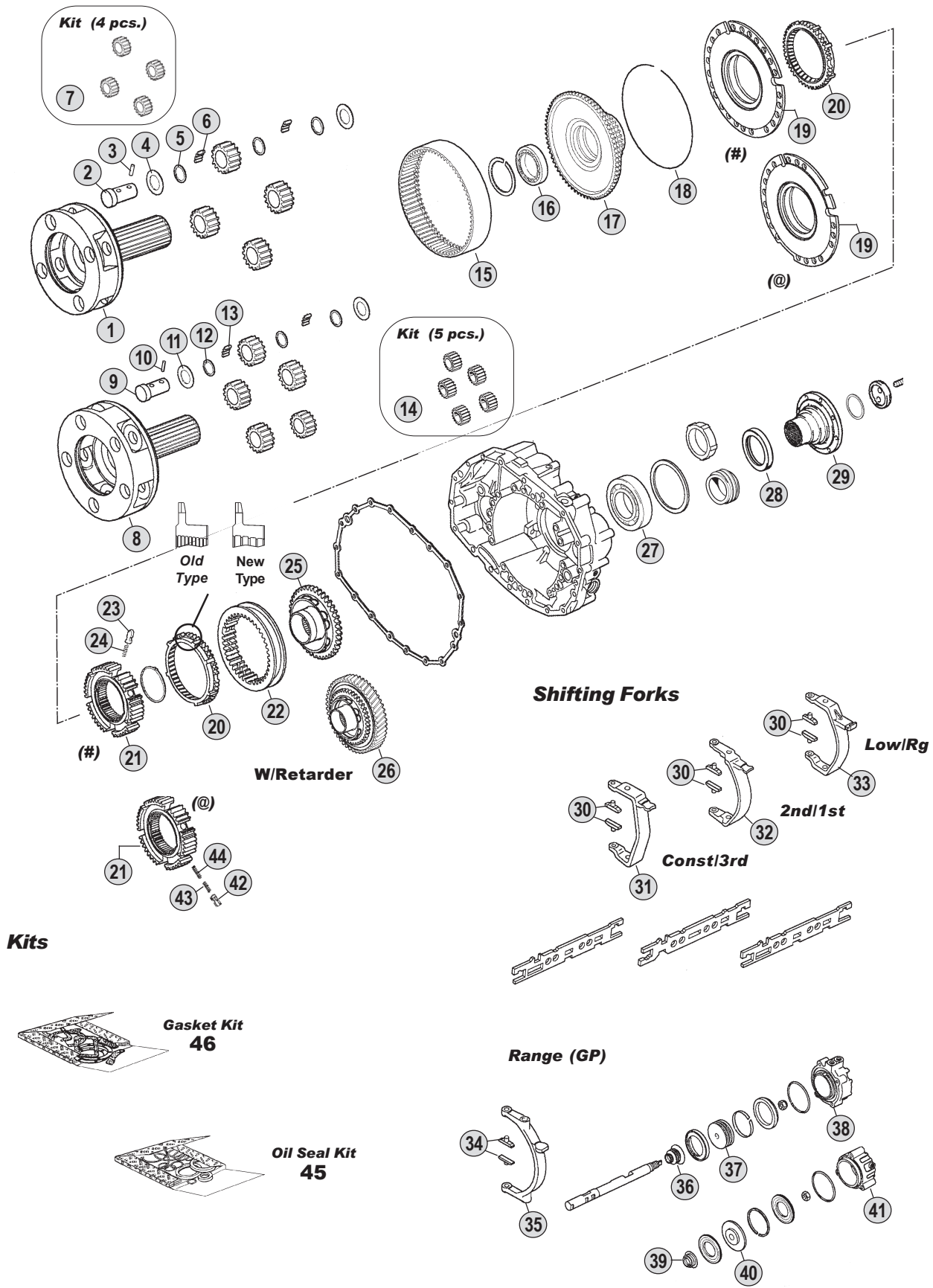
## Date

07 / 2006

## Table

0070 / B

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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.	M.A.N. 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	<b>141.194</b>	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	<b>141.061</b>	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	<b>160.116</b>	1240 304 278	81 32510 0005	Pressure Piece	9		(@)	●					
43	<b>156.037</b>	0732 040 385	81 97601 0757	Outer Spring De.6x34	9		(@)	●					
44	<b>156.036</b>	0732 040 386	81 97601 0758	Inner Spring De.3x34	9		(@)	●					
45	<b>298.026</b>	1304 298 908	81 32900 6019	Oil Seal Kit	1			●					
46	<b>198.945</b>	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)
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

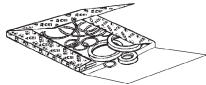
### Ratios

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

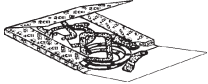
Suitable To : **ZF**

**16S109**

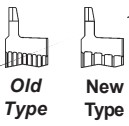
**Kits**



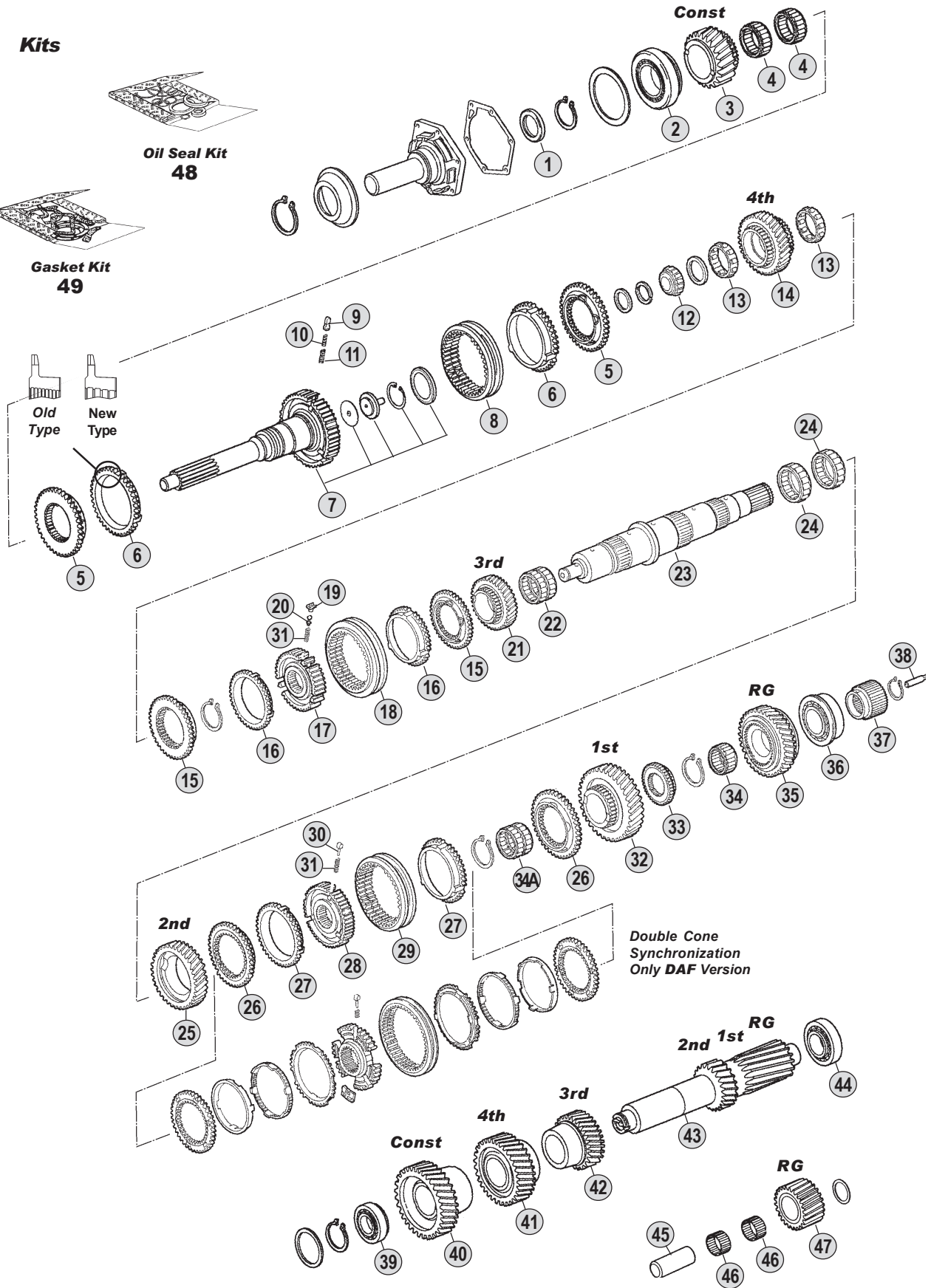
**Oil Seal Kit  
48**



**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	<b>145.478</b>	1304 302 169		Constant Gear 26 T	1		ABCD	●			
3	<b>145.516</b>	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	<b>109.169</b>	1304 302 188	81 32425 0096	Synchronizer Cone	2		●				
6	119.149	1304 304 496	81 32420 0153	Synchronizer Ring	2	Old Type	●				
6	<b>119.173</b>	1304 304 680	81 32420 0234	Synchronizer Ring	2	New Type	●				
7	<b>190.311</b>	1304 202 201	81 32205 0236	Input Shaft	1		●				
7	<b>190.312</b>	1304 202 202	81 32205 0235	Input Shaft	1		●				
7	<b>190.298</b>	1304 202 203		Input Shaft	1		●				
8	<b>154.064</b>	1240 304 272	81 32402 0062	Sliding Sleeve	1		●				
9	<b>160.116</b>	1240 304 278	81 32510 0005	Pressure Piece	3		●				
10	<b>156.036</b>	0732 040 386	81 97601 0758	Inner Spring De.3x34	3		●				
11	<b>156.037</b>	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	<b>146.397</b>	1304 304 516		Gear 4th Speed 27 T	1		ABCD	●			
14	<b>146.439</b>	1304 304 518	81 32301 0734	Gear 4th Speed 27 T	1		E	●			
15	<b>109.170</b>	1304 304 012	81 32425 0098	Synchronizer Cone	2		●				
16	119.150	1304 304 014	81 32420 0137	Synchronizer Ring	2	Old Type	●				
16	<b>119.169</b>	1304 304 683	81 32420 0235	Synchronizer Ring	2	New Type	●				
17	<b>157.186</b>	1304 304 515	81 32420 0157	Synchronizer Hub	1		●				
18	<b>154.199</b>	1304 304 688	81 32402 0198	Sliding Sleeve	1		●				
19	<b>188.096</b>	1238 304 394	81 32510 0007	Pressure Piece	3		●				
20	<b>160.143</b>	1249 304 222	81 32523 0081	Plunger	3		●				
21	<b>145.479</b>	1304 304 475		Gear 3rd Speed 29 T	1		ABCD	●			
21	<b>145.518</b>	1304 304 417	81 32301 0732	Gear 3rd Speed 32 T	1		E	●			
22	137.142	0735 320 816	81 93404 0045	Needle Cage D.75x83x23	1		●				
23	<b>103.129</b>	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	<b>109.171</b>	1304 304 408	81 32425 0088	Synchronizer Cone	2		●				
27	119.151	1304 304 542	81 32420 0156	Synchronizer Ring	2	Old Type	●				
27	<b>119.170</b>	1304 304 681	82 32420 0013	Synchronizer Ring	2	New Type	●				
28	<b>157.187</b>	1304 304 653	81 32420 0188	Synchronizer Hub	1		●				
29	<b>154.200</b>	1304 304 597	81 32402 0147	Sliding Sleeve	1		●				
30	<b>160.189</b>	1297 304 436	81 32510 0013	Pressure Piece	3		●				
31	<b>156.140</b>	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	<b>109.172</b>	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

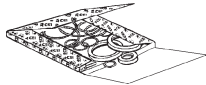
07 / 2006

Table

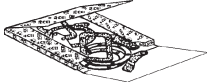
0080 / A

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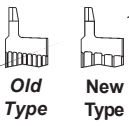
**Kits**



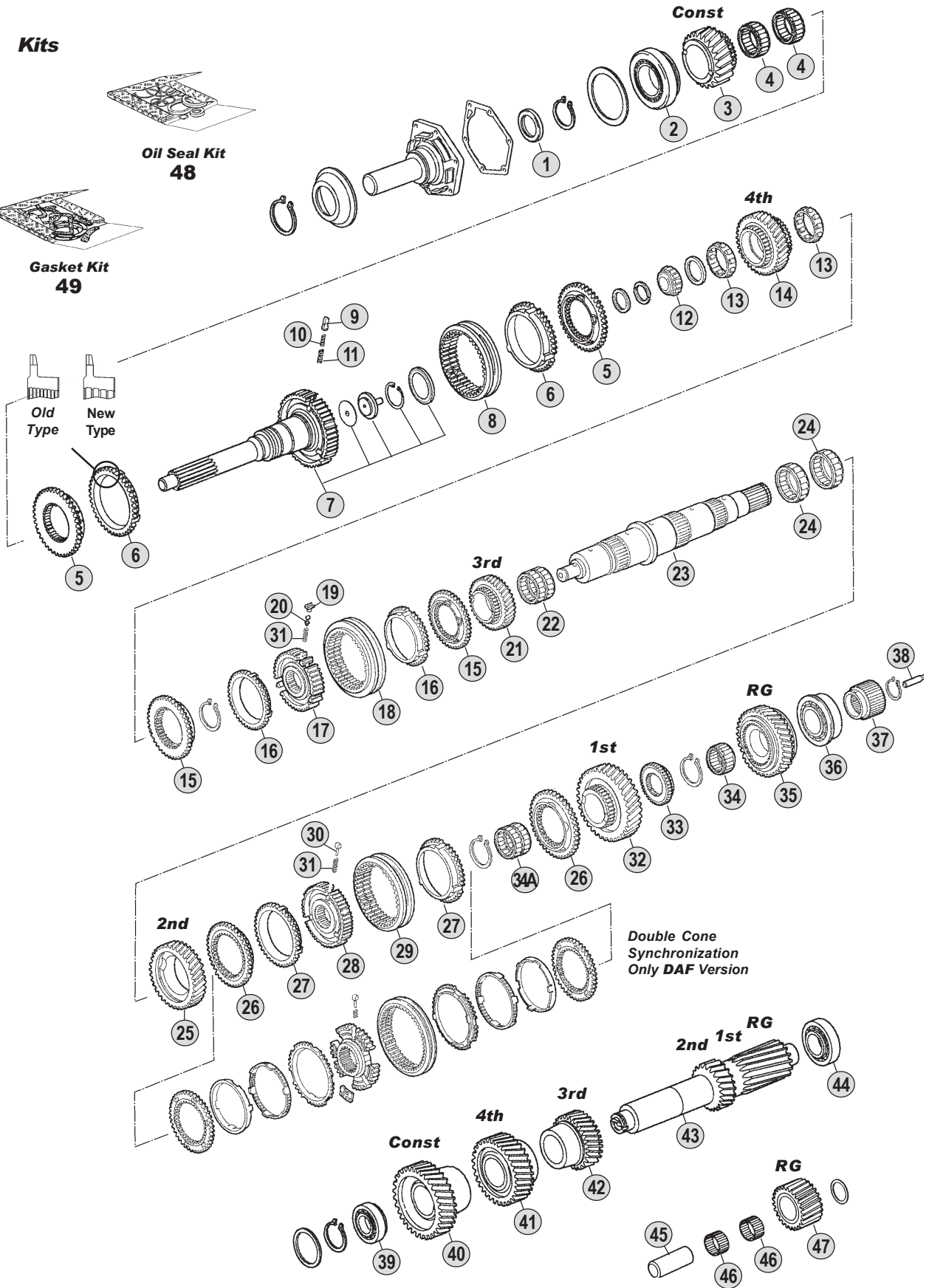
**Oil Seal Kit  
48**



**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.	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	<b>146.394</b>	1304 303 273		Constant Gear 33 T	1		ABCD ●				
40	<b>146.434</b>	1304 303 283	81 32301 0729	Constant Gear 31 T	1		E ●				
41	<b>146.395</b>	1304 303 212		Gear 4th Speed 29 T.	1		ABCD ●				
41	<b>146.436</b>	1304 303 175	81 32301 0728	Gear 4th Speed 34 T	1		E ●				
42	<b>146.396</b>	1304 303 214		Gear 3rd Speed 22 T	1		ABCD ●				
42	<b>146.438</b>	1304 303 192	81 32301 0727	Gear 3rd Speed 28 T	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	<b>298.026</b>	1304 298 908	81 32900 6019	Oil Seal Kit	1		●				
49	<b>198.945</b>	1304 298 914	81 32900 6018	Gasket Kit	1		●				

**ECOMID**  
16S109

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Notes

Date

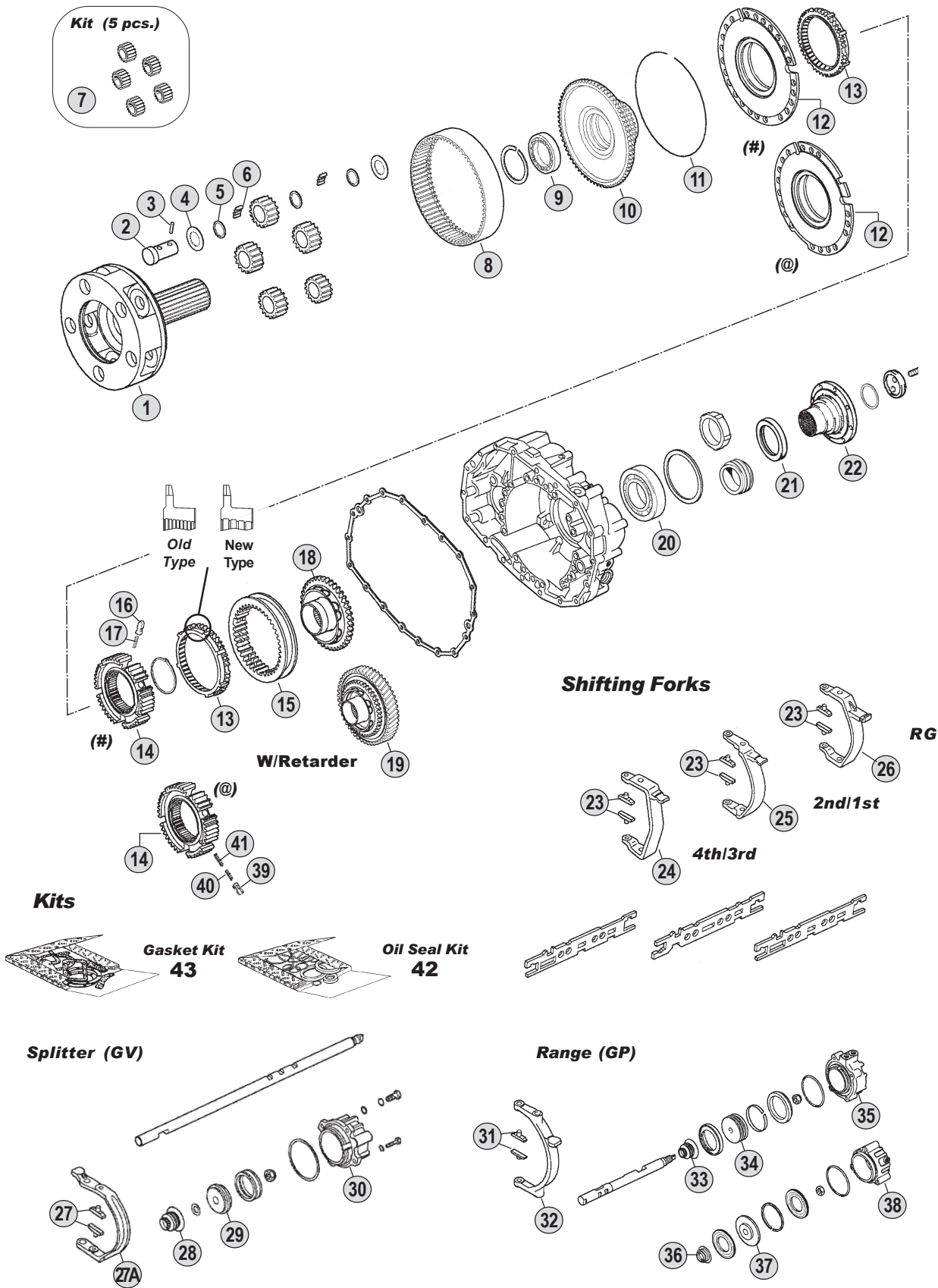
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Table

0080 / A

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

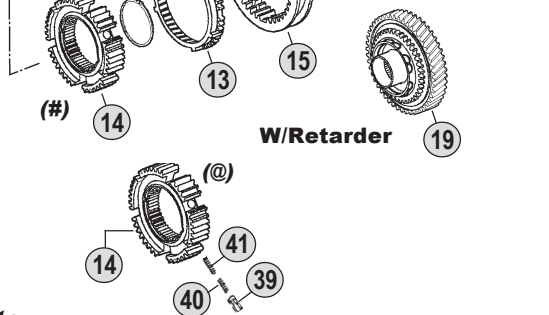
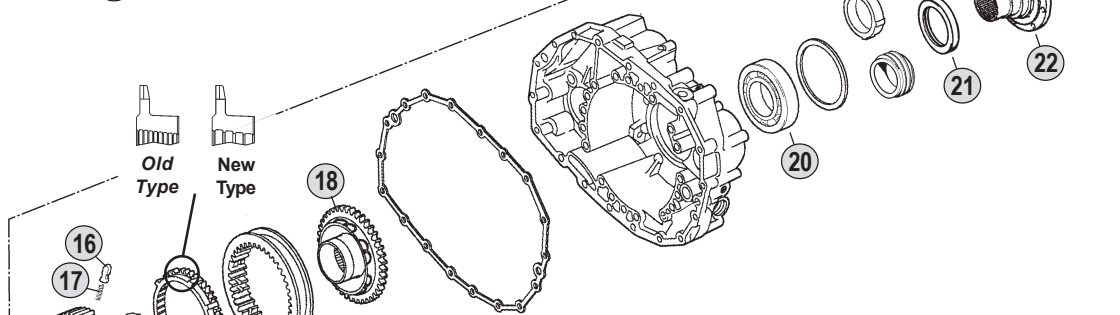
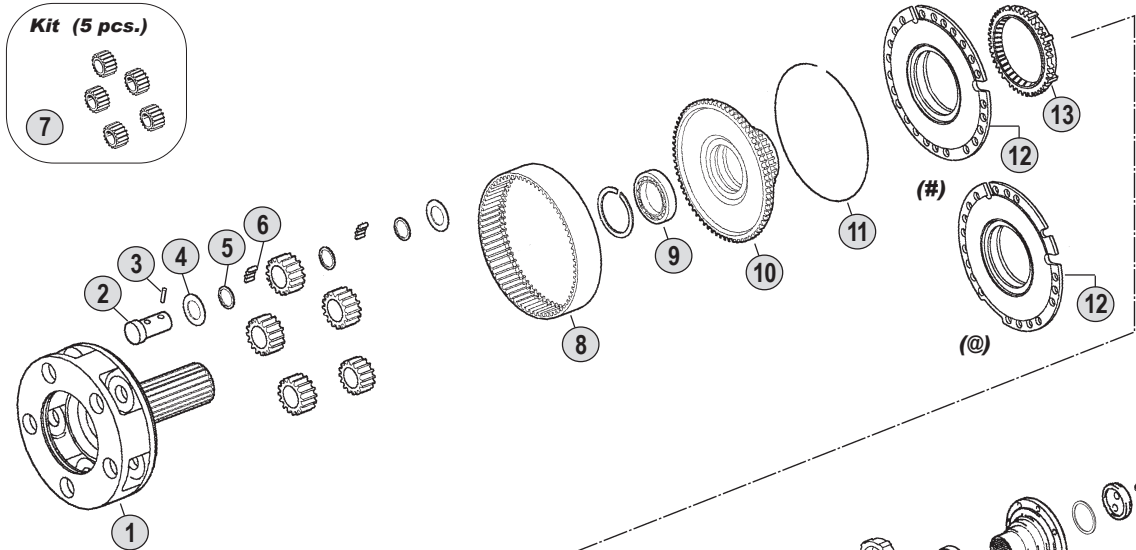
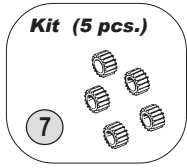
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## Table

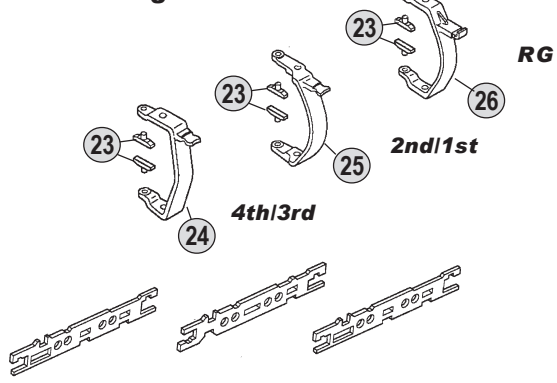
0080 / B

Suitable To : **ZF**

**16S109**



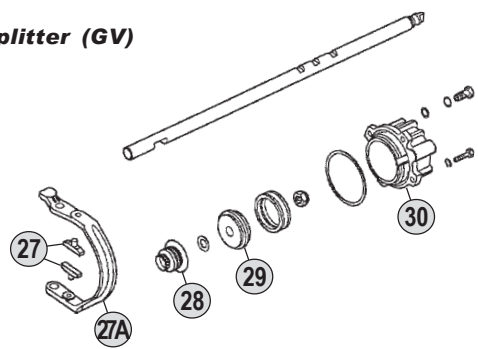
**Shifting Forks**



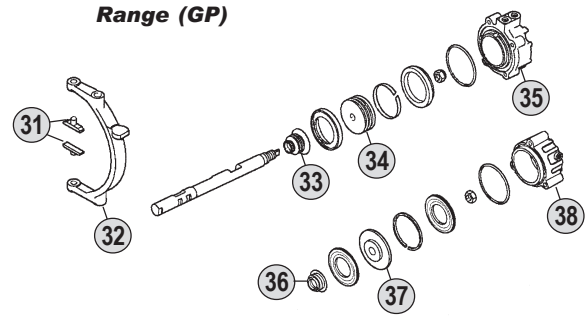
**Kits**



**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	<b>141.194</b>	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	<b>141.061</b>	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	<b>160.116</b>	1240 304 278	81 32510 0005	Pressure Piece	9		(@)	●					
40	<b>156.037</b>	0732 040 385	81 97601 0757	Outer Spring De.6x34	9		(@)	●					
41	<b>156.036</b>	0732 040 386	81 97601 0758	Inner Spring De.3x34	9		(@)	●					
42	<b>298.026</b>	1304 298 908	81 32900 6019	Oil Seal Kit	1			●					
43	<b>198.945</b>	1304 298 914	81 32900 6018	Gasket Kit	1			●					

Notes

Date



Suitable to: **IVECO**

# Gearboxes Index

## EcoLite

**Bus Applications****S6-85**

## EcoLite

**Truck Applications****5S200****6S300****6S-850****IVECO  
INDEX**

## EcoMid

**Bus Applications****8S180**

## EcoMid

**Truck Applications****9S109****16S109**





suitable to :

# Z.F.

## EcoLite

### 5S200

### Application

	6S-850 (1290)	5S200 (1322)	6S300 (1323)			
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

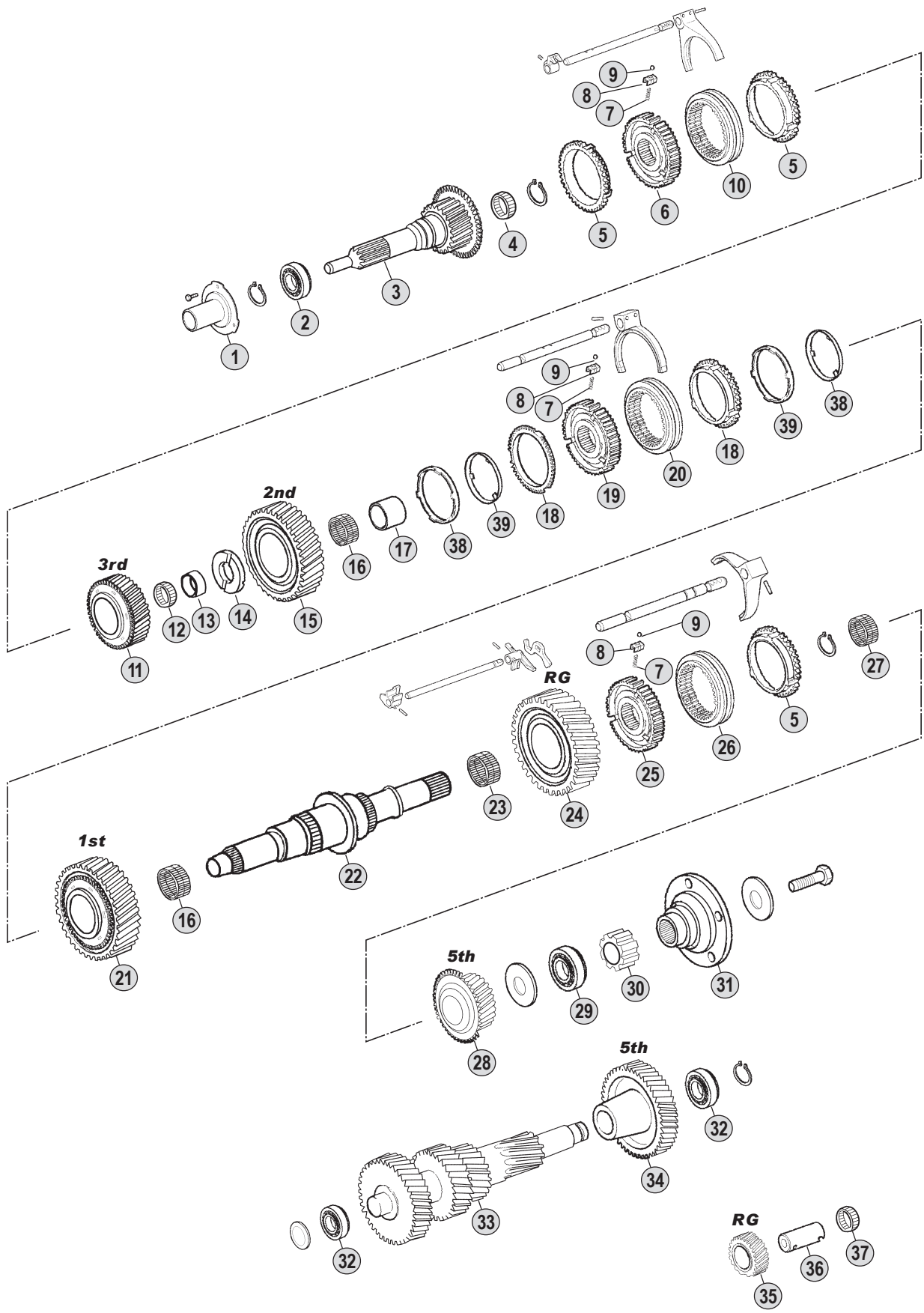
**ECOLITE**  
5S200

### Ratios

Ratio	Note
<b>4,99-0,78</b>	<b>A</b>

Suitable To : **ZF**

**5S200**



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**Ratios**

**5S200** A : 4,99 - 0,78

5S200 (1322)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					IVECO no.					
1	128.224	1322 302 003		Cover	1		●					
2	130.781	0750 116 323		Bearing	1		●					
3	102.415	1322 202 004		Input shaft	1		●					
4	137.292	0750 115 539		Needle cage	1		●					
5	119.257	1322 304 022		Synchronizer Ring	3		●					
6	155.238	1322 304 005	8868867	Output flange	1		●					
7	156.192	1322 304 137		Spring	3	x 3 pcs	●					
8	188.231	1322 304 023		Pressure Piece	3	x 3 pcs	●					
9	160.252	0635 460 006	9926356	Ball	3	x 3 pcs	●					
10	154.410	1322 304 098		Sliding sleeve	1		●					
11	145.954	1322 204 031		Gear 3rd Speed 25 T	1		●					
12	137.293	0750 115 546		Needle cage	1		●					
13	117.405	1322 304 028		Bush	1		●					
14	167.112	1322 304 117		Washer	1		●					
15	145.955	1322 204 034		Gear 2nd Speed 32 T	1		●					
16	137.294	0750 115 529		Needle cage	2		●					
17	117.406	1322 304 114		Bush	1		●					
18	119.258	1322 304 108		Synchronizer Ring	2		●					
19	157.222	1322 304 110		Synchronizer hub	1		●					
20	154.325	1322 304 109	8869131	Sliding sleeve	1		●					
21	145.956	1322 204 035		Gear 1st Speed 41 T	1		●					
22	103.206	1322 304 103		Shaft	1		●					
23	137.295	0750 115 512		Needle cage	1		●					
24	145.720	1322 204 012	8868861	Reverse gear 37 T	1		●					
25	157.221	1322 304 004	8868627	Synchronizer hub	1		●					
26	154.324	1322 304 006	8868629	Sliding sleeve	1		●					
27	137.296	0750 115 540		Needle cage	1		●					
28	145.957	1322 204 039		Gear 5th Speed 25 T	1		●					
29	130.782	0750 116 368		Bearing	1		●					
30	189.658	1322 304 002		Pulse disk	1		●					
31	197.152	1322 304 025		Output flange	1		●					
32	130.783	0635 372 013		Bearing	2		●					
33	105.220	1322 303 007		Countershaft	1		●					
34	145.958	1322 303 005		Gear 5th Speed	1		●					
35	147.249	1322 305 003		Reverse gear	1		●					
36	107.212	1322 305 004		Reverse shaft	1		●					
37	137.297	0750 115 542		Needle cage	1		●					
38	119.259	1322 304 107		Synchronizer ring	2		●					
39	119.260	1322 304 111		Synchronizer ring	2		●					

ECOLITE  
5S200

Notes

Date

07 / 2006

Table

0083



suitable to :

# Z.F.

## EcoLite

### 6S300

### Application

	6S-850 (1290)	5S200 (1322)	6S300 (1323)			
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

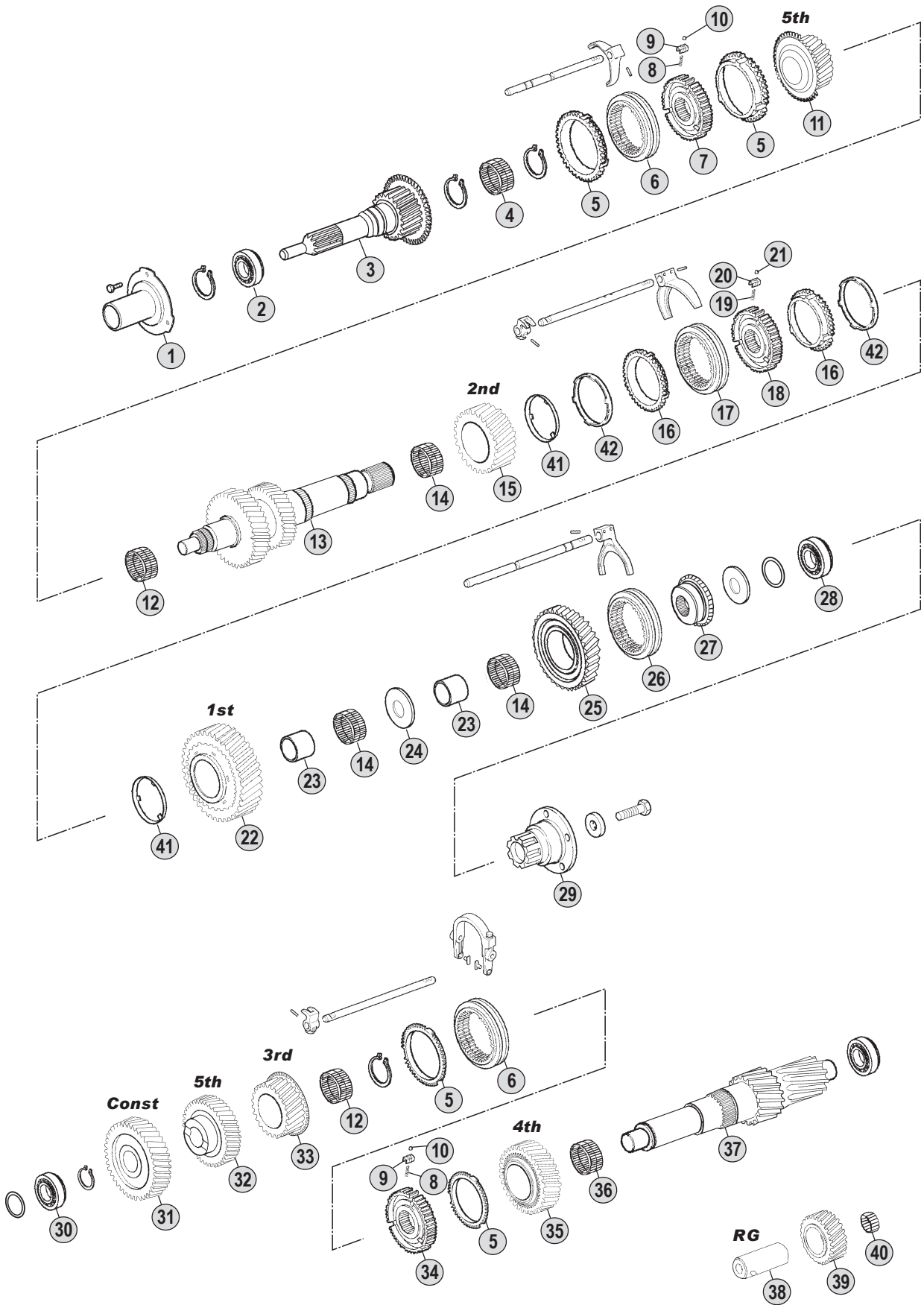
**ECOLITE**  
6S300

### Ratios

Ratio	Note
<b>6,73-1,00</b>	<b>A</b>

Suitable To : **ZF**

**6S300**



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**Ratios**

**6S300** A : 6,73 - 1,00

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	IVECO no.									
1	128.225	1323 302 003	42534948	Cover	1			●				
2	130.784	0735 330 479	42536825	Bearing	1			●				
3	102.416	1323 202 003		Input shaft	1			●				
4	137.298	0735 298 254	42535016	Needle cage	1			●				
5	119.261	1065 303 001	42534984	Synchronizer ring	4			●				
6	154.411	1323 303 012		Sliding sleeve	2			●				
7	155.239	1323 304 017		Synchronizer hub	1			●				
8	156.193	0770 060 784		Spring	6	2x3 pcs		●				
9	160.253	1053 303 127	42537456	Pressure piece	6	2x3 pcs		●				
10	160.254	0635 460 006	9926356	Sfera	6	2x3 pcs		●				
11	145.959	1323 204 019		Gear 5th Speed	1			●				
12	137.299	0735 321 449	42534986	Needle cage	2			●				
13	103.207	1323 304 030	42535001	Main shaft	1			●				
14	137.300	0735 321 451	42535002	Needle cage	3			●				
15	145.960	1323 204 007	42535003	Gear 2nd Speed	1			●				
16	119.262	1319 304 053	42535005	Synchronizer ring	2			●				
17	154.412	1319 304 037		Sliding sleeve	1			●				
18	155.240	1323 304 020		Synchronizer hub	1			●				
19	156.194	0770 060 816	42537457	Spring	3			●				
20	160.255	1052 304 117	42537458	Pressure piece	3			●				
21	171.014	0635 460 010	1116953	Ball D.6	3			●				
22	145.961	1323 204 008	42535009	Gear 1st Speed	1			●				
23	117.407	0730 162 810	42535008	Bush	2			●				
24	167.113	1323 304 022	42535010	Washer	1			●				
25	145.962	1323 304 021	42535011	Gear	1			●				
26	154.413	1323 304 009	42535012	Sliding sleeve	1			●				
27	155.241	1323 204 011	42535018	Hub	1			●				
28	130.785	0735 330 712		Bearing	1			●				
29	197.153	1323 304 025	42534950	Output flange	1			●				
30	130.786	0635 374 002	42534982	Bearing	2			●				
31	146.650	1323 303 016	42534989	Constant gear	1			●				
32	146.651	1323 303 041		Gear 5th Speed	1			●				
33	146.652	1323 203 005		Gear 3rd Speed	1			●				
34	155.242	1323 303 023		Synchronizer hub	1			●				
35	146.653	1323 203 004	42534981	Gear 4th Speed	1			●				
36	137.301	0735 321 450	42534980	Needle cage	1			●				
37	105.221	1323 303 008	42534979	Countershaft	1			●				
38	107.213	1323 305 001	42534944	Reverse shaft	1			●				
39	147.250	1323 305 007		Reverse Gear	1			●				
40	137.273	0750 115 233	1905380	Needle Cage D.30x38x30	1			●				
41	119.263	1319 304 032	42535007	Synchronizer ring	2			●				
42	119.264	1319 304 051	42535006	Synchronizer ring	2			●				

**ECOLITE**  
6S300

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Notes

Date

07 / 2006

Table

0085





suitable to :

# Z.F.

## EcoLite

### 6S-850

### Application

	6S-850 (1290)	5S200 (1322)	6S300 (1323)			
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

### Ratios

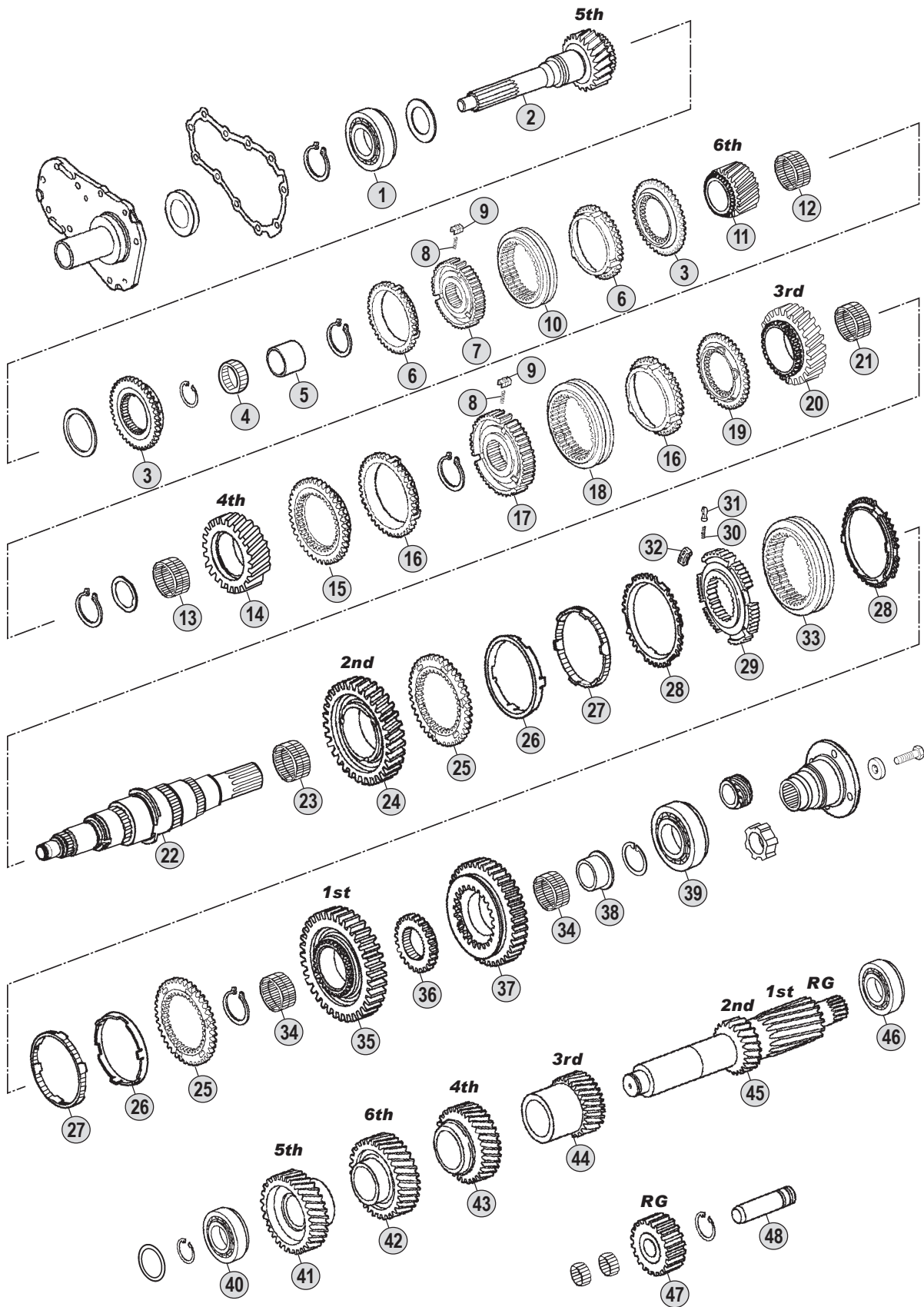
Ratio	Note
<b>6,72-0,79</b>	-

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**ECOLITE**  
6S-850

Suitable To : **ZF**

**6S-850**



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**Ratios**

**6S-850 Ratio: 6,72 - 0,79**

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					IVECO no.	6S-850	(1290)					
1	130.787	0735 330 685		Bearing	1		●							
2	102.421	1290 302 474		Input shaft	1	A	●							
2	102.424	1290 302 472		Input shaft	1	A	●							
2	102.418	1290 302 486		Input shaft	1	B	●							
2	102.419	1290 302 478		Input shaft	1	B	●							
2	102.420	1290 302 465		Input shaft	1	B	●							
2	102.421	1290 302 490		Input shaft	1	B	●							
2	102.422	1290 302 482		Input shaft	1	B	●							
2	102.423	1290 302 471		Input shaft	1	B	●							
3	109.738	1290 304 482		Synchronizer cone	2		●							
4	137.303	0735 358 128	8193552	Needle bearing	1		●							
5	117.409	0735 295 119	42531628	Bush	1		●							
6	119.266	1317 304 150		Synchronizer ring	2		●							
7	155.243	1317 304 026		Synchronizer hub	1		●							
8	156.195	0732 042 510		Spring	3	x 2 pcs	●							
9	188.231	1317 304 081		Pressure Piece	3	x 2 pcs	●							
10	154.415	1317 304 126		Sliding sleeve	1		●							
11	145.963	1290 304 548		Gear 6th Speed	1	A	●							
11	146.656	1290 304 547		Gear 6th Speed	1	B	●							
12	137.304	0735 321 527		Needle bearing	1		●							
13	137.306	0735 321 528		Needle bearing	1		●							
14	146.657	1290 304 574		Gear 4th Speed	1		●							
15	109.739	1290 304 508		Synchronizer cone	1		●							
16	119.267	1317 304 114		Synchronizer ring	2		●							
17	155.244	1317 304 031		Synchronizer hub	1	Old type	(@)	●						
17	155.247	1290 304 619		Synchronizer hub	1		(#)	●						
18	154.416	1317 304 125		Sliding sleeve	1		●							
19	109.740	1290 304 509		Synchronizer cone	1		●							
20	146.658	1290 304 581		Gear 3rd Speed	1	AB	●							
21	137.307	0735 321 529		Needle bearing	1		●							
22	103.210	1290 304 571		Main shaft	1	Old type	(@)	●						
22	103.216	1290 304 620		Main shaft	1		(#)	●						
23	137.308	0735 321 530		Needle bearing	1		●							
24	146.665	1290 304 485		Gear 2th Speed	1	A	●							
24	146.659	1290 304 487		Gear 2nd Speed	1	B	●							
25	109.407	1304 304 623	42538177	Synchronizer Cone	2		●							
26	119.221	1290 304 350	93163383	Internal Ring	2		●							
27	119.268	1290 304 366	93163384	Synchronizer ring	2		●							
28	119.223	1290 304 438	93163385	Outer Ring	2		●							
29	157.713	1304 304 687		Synchronizer Hub	1		●							
30	156.140	0732 040 409	2967403	Spring D.6,5x23,5	3		●							
31	160.189	1297 304 436	93156036	Pressure Piece	3		●							
32	156.176	1312 304 159	42531384	Pad	3		●							
33	154.373	6002 305 994		Sliding Sleeve	1		●							
34	137.305	0735 321 531	42490369	Needle cage	2		●							

## Notes

- (A-B) Respect the coupling as the assembling.  
 (@) Old type, respect the coupling as the assembling.  
 (#) New type, respect the coupling as the assembling.

## Date

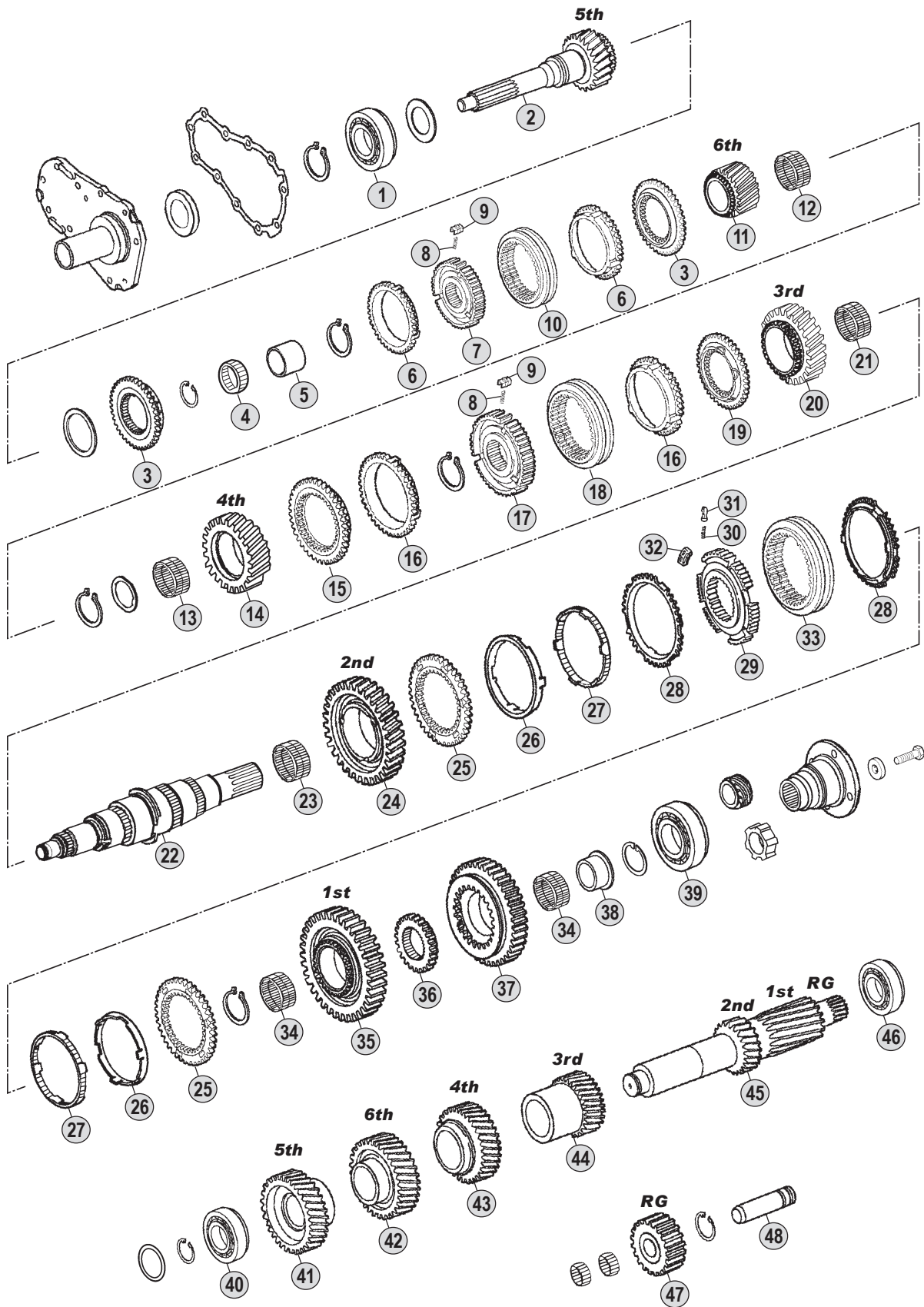
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## Table

0087

Suitable To : **ZF**

**6S-850**



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**Ratios**

**6S-850 Ratio: 6,72 - 0,79**





suitable to :

# Z.F.

## EcoLite

### S6-85

### Application

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

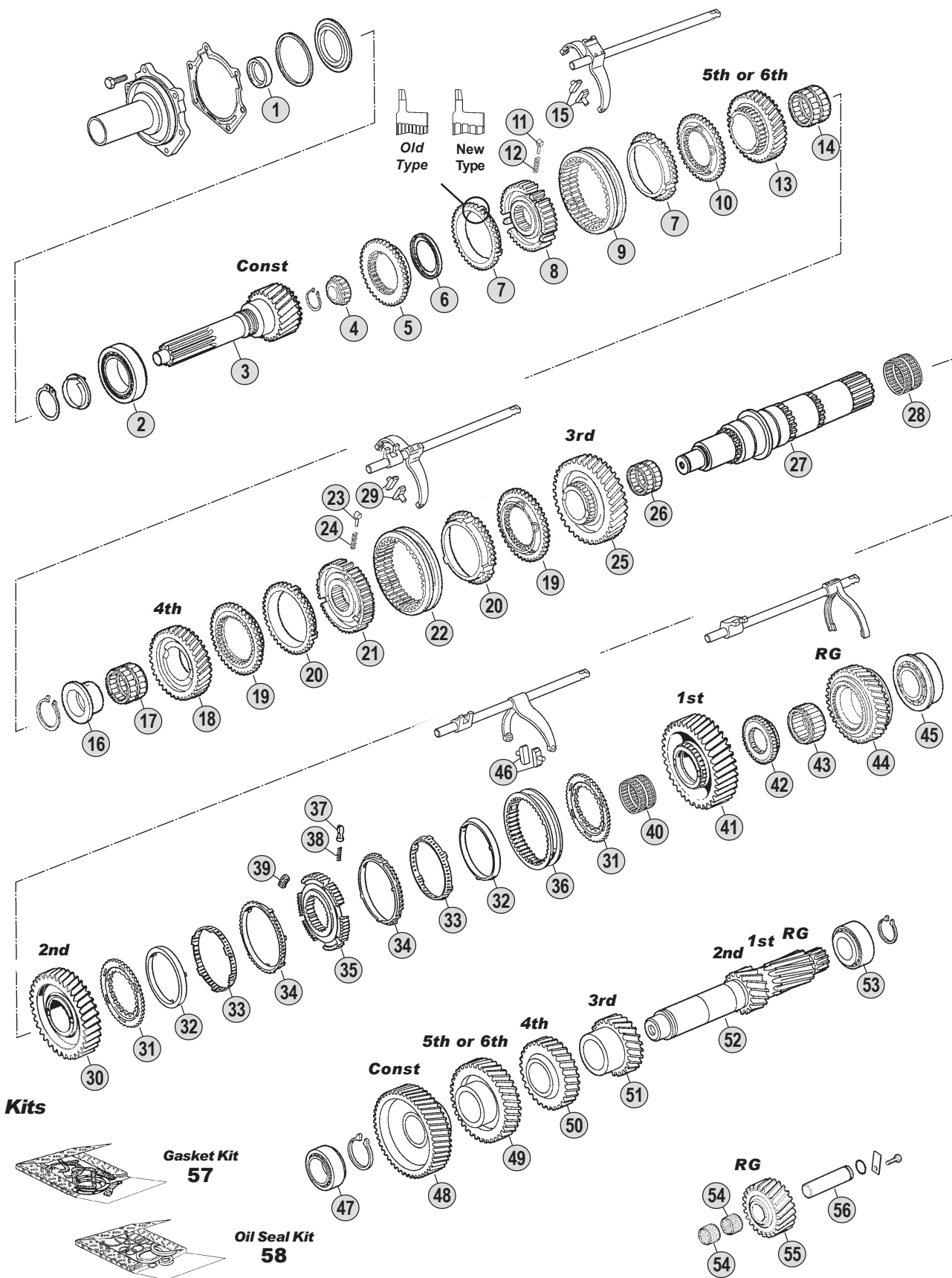
### Ratios

Ratio	Note
<b>6,75-0,83</b>	<b>A</b>
<b>7,72-1,00</b>	<b>B</b>

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**ECOLITE**  
S6-85

Suitable To : **ZF**



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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 synchro ring	2			●					
33	119.153	1268 304 494	42534458	Intermediate synchro ring	2			●					

Notes

Date

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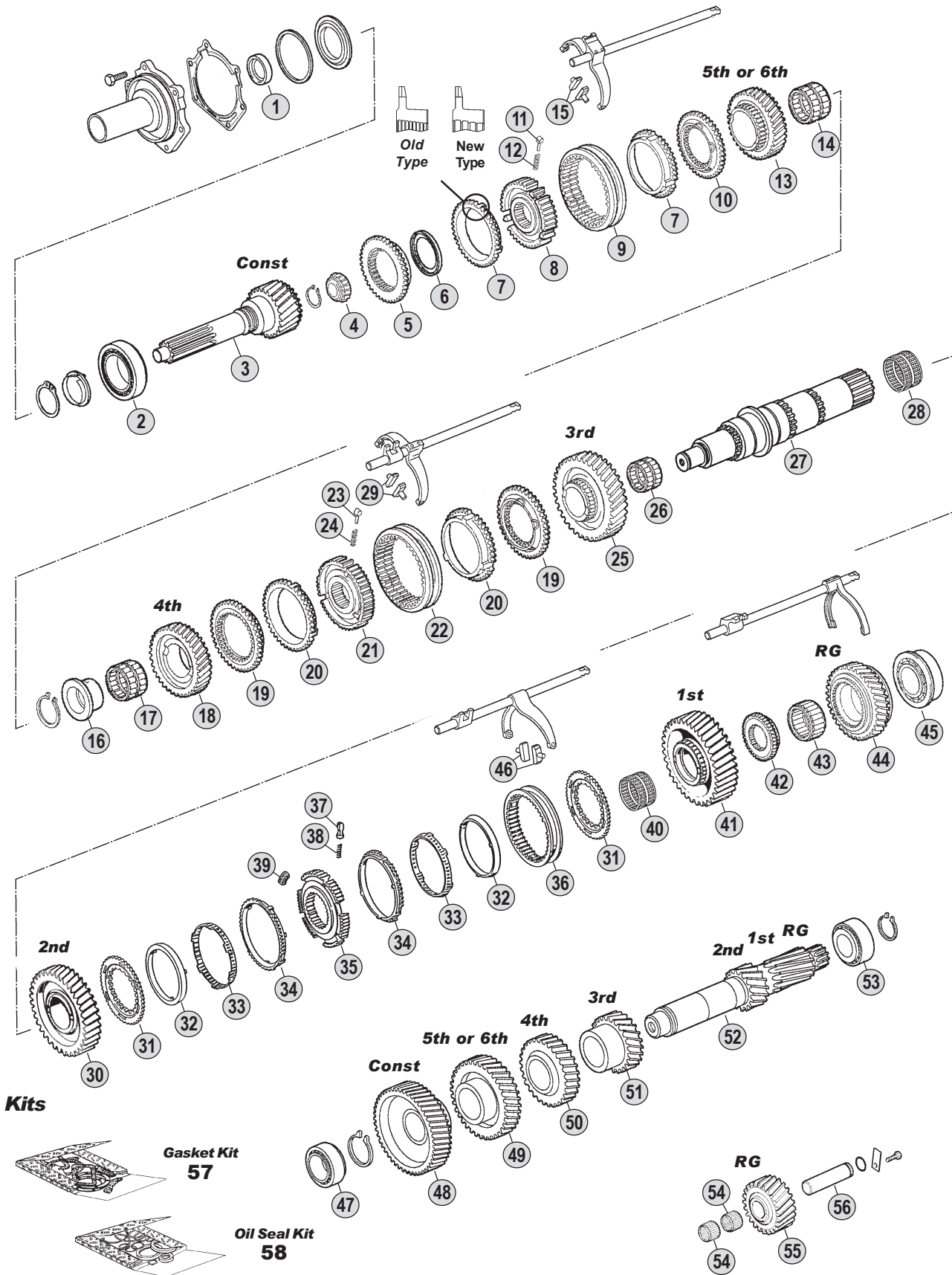
Table

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

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	IVECO no.					S6-85 (1310)			
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

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Table

0090



suitable to :

# Z.F.

## EcoMid

### 8S180

### Application

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

### Ratios

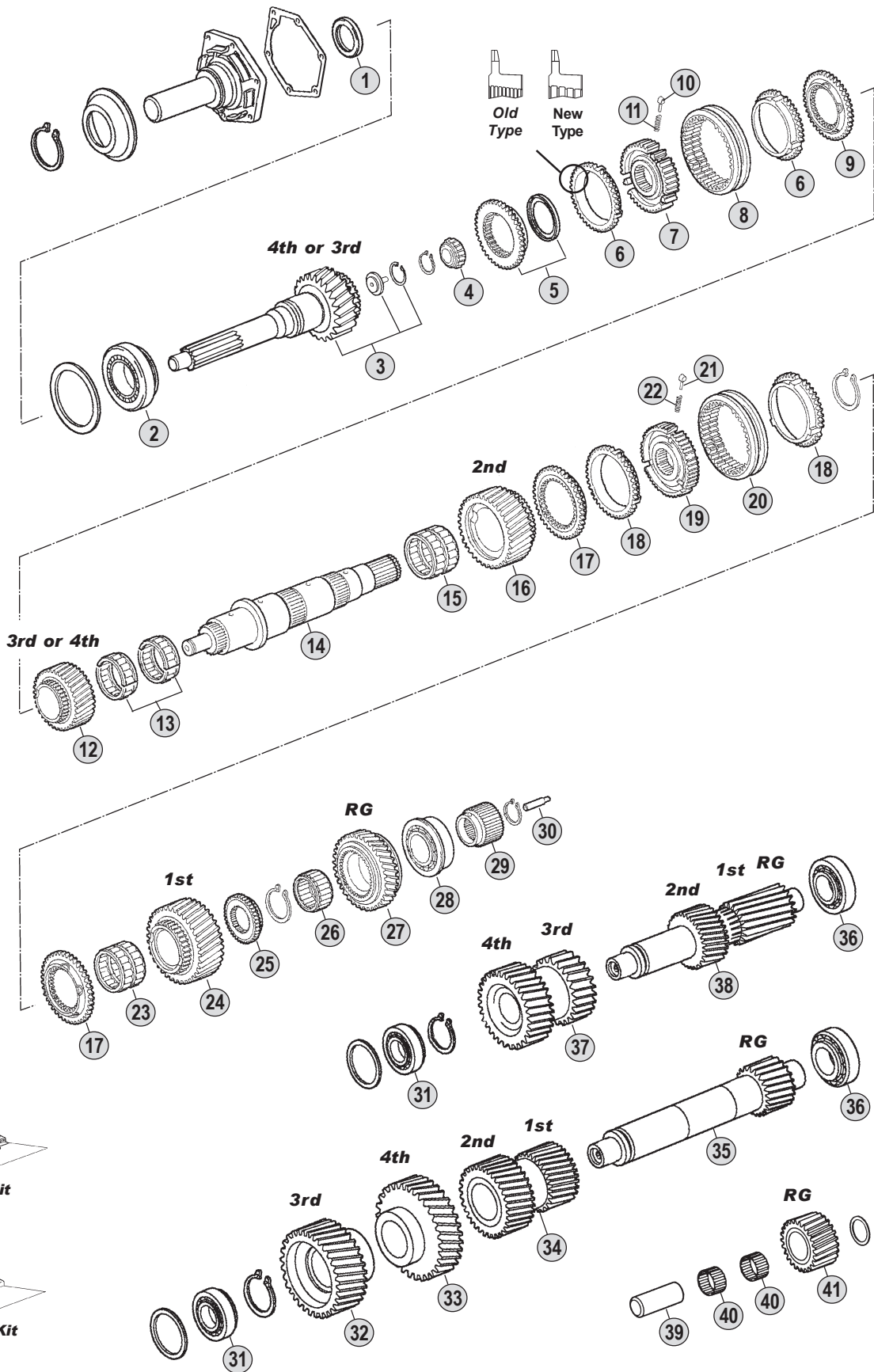
Ratio	Note
<b>6,38-0,76</b>	<b>A</b>
<b>8,73-1,00</b>	<b>B</b>

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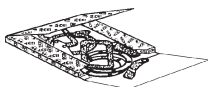
**ECOMID**  
8S180

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.	IVECO no.											
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	102.425	1304 202 207		Input shaft 29 T	1		●							
3	<b>102.361</b>	1304 202 208		Input Shaft 29 T	1		●							
3	102.426	1304 202 210		Input Shaft 29 T	1		●							
3	102.427	1304 202 211		Input Shaft 29 T	1		●							
3	102.349	1304 202 212		Input Shaft 29 T	1		●							
4	<b>137.150</b>	0750 117 232	93156500	Roller Cage D.42x81x40,30	1		●							
5	<b>109.396</b>	1304 202 214	93191286	Synchronizer Cone	1		●							
6	119.219	1311 304 076	93191285	Synchronizer Ring	2	Old Type	●							
6	<b>119.220</b>	1311 304 255	42532603	Synchronizer Ring	2	New Type	●							
7	<b>157.702</b>	1304 304 651	93191283	Synchronizer Hub	1		●							
8	<b>154.363</b>	1304 304 664	93194136	Sliding Sleeve	1		●							
9	<b>109.395</b>	1304 302 425	93191282	Synchronizer Cone	1		●							
10	<b>160.189</b>	1297 304 436	93156036	Pressure Piece	3		●							
11	<b>156.140</b>	0732 040 409	2967403	Spring D.6,5x23,5	3		●							
12	<b>147.233</b>	1304 304 637	93194498	Gear 4th Speed 24 T	1		A	●						
12	<b>147.231</b>	1304 304 636	93191281	Gear 3rd Speed 29 T	1		B	●						
13	137.260	0750 115 430	1905363	Needle Cage 70x78x60	1		●							
14	<b>103.191</b>	1304 304 604	93191267	Main Shaft	1		●							
15	137.259	0735 320 378	42484259	Needle Cage 70x83x55	1		●							
16	<b>145.827</b>	1304 304 582	93194495	Gear 2nd Speed 29 T	1		A	●						
16	<b>145.825</b>	1304 304 581	93191268	Gear 2nd Speed 33 T	1		B	●						
17	<b>109.392</b>	1311 304 015	93191269	Synchronizer Cone	2		●							
18	119.118	1268 304 445	93191272	Synchronizer Ring	2	Old Type	●							
18	<b>119.142</b>	1268 304 594	42532577	Synchronizer Ring	2	New Type	●							
19	<b>157.700</b>	1304 304 576	93191270	Synchronizer Hub	1		●							
20	<b>154.200</b>	1304 304 597	93156811	Sliding Sleeve	1		●							
21	<b>160.189</b>	1297 304 436	93156036	Pressure Piece	3		●							
22	<b>156.140</b>	0732 040 409	2967403	Spring D.6,5x23,5	3		●							
23	137.260	0750 115 430	1905363	Needle Cage 70x78x60	1		●							
24	<b>147.232</b>	1304 304 587	93194496	Gear 1st Speed 33 T	1		A	●						
24	<b>147.229</b>	1304 304 586	93191278	Gear 1st Speed 38 T	1		B	●						
25	<b>109.172</b>	1304 304 007	8193079	Synchronizer Cone	1		●							
26	137.147	0750 115 225	8193080	Needle Cage D.60x68x39	1		●							
27	<b>147.230</b>	1304 304 672	93194497	Reverse Gear 35 T	1		●							
28	130.684	0735 371 599	1905453	Roller Bearing D.50,8x104,7x36,	1		●							
29	<b>157.701</b>	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	<b>146.586</b>	1304 303 294	93194494	Gear 3rd Speed 31 T	1		A	●						
33	<b>147.234</b>	1304 303 293	93194493	Gear 4th Speed 34 T	1		A	●						
34	<b>143.121</b>	1304 303 292	93194492	Double Gear 19/23 T	1		A	●						
35	<b>105.186</b>	1304 303 291	93194491	Countershaft 16 T	1		A	●						

Notes

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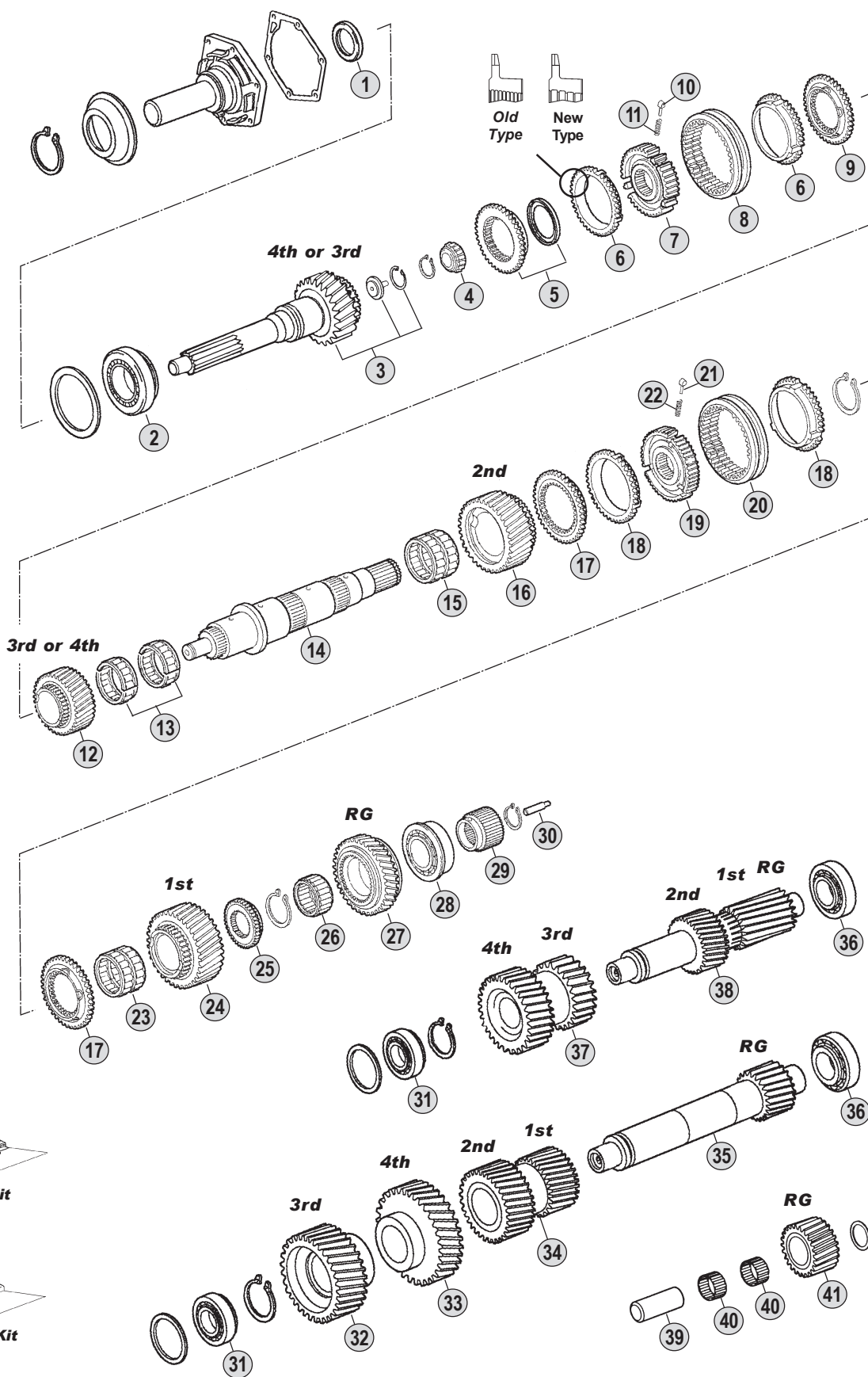
Table

0100 / 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

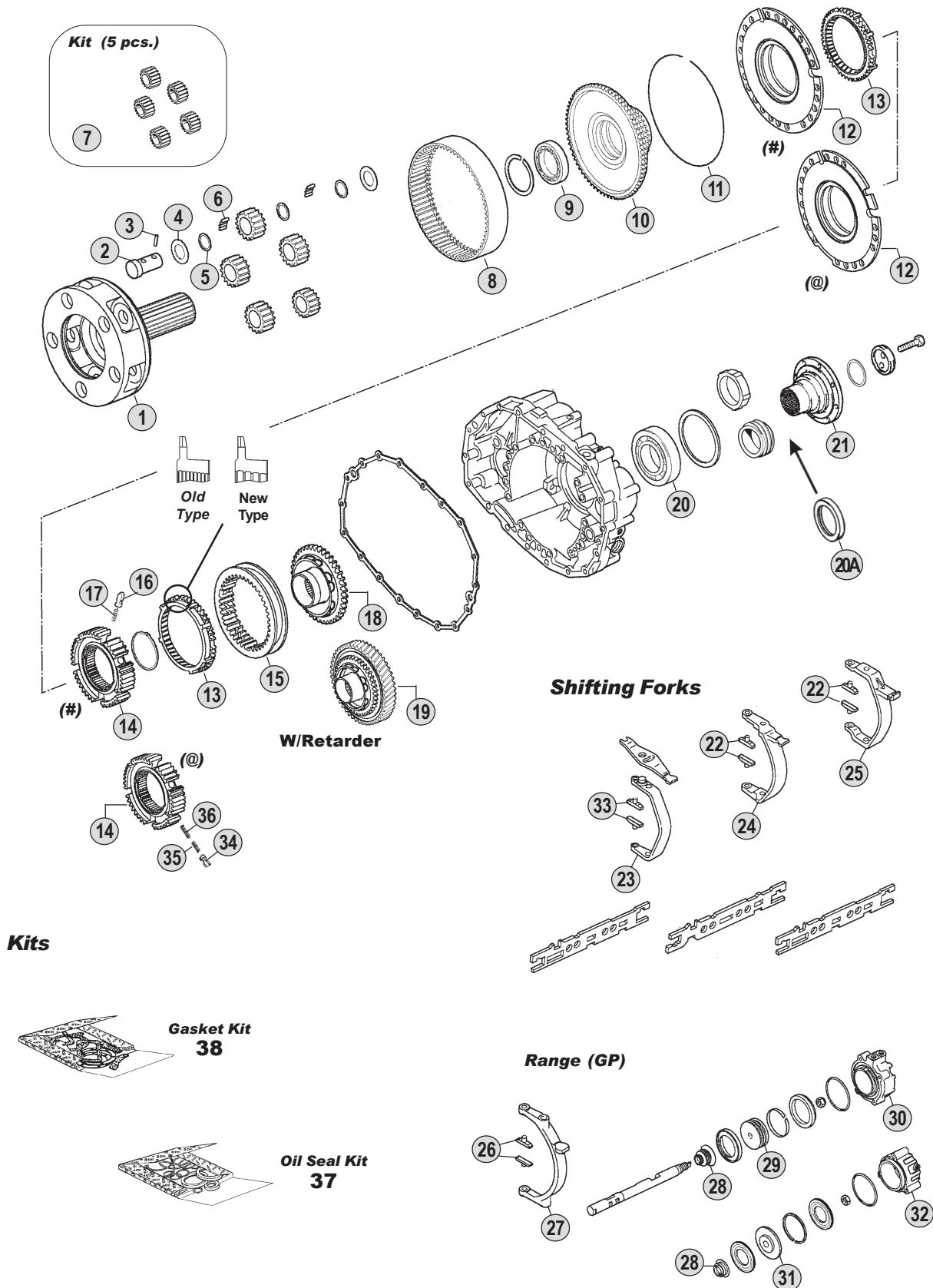
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Suitable To : **ZF**

**8S180**



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**Ratios**

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



8S180 (1304)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
		ZF no.	IVECO no.					8S180						
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	623949	Bearing D.80x110x16	1		(@)	●						
10	150.163	1304 332 071	93191478	Carrier Hub	1		(#)	●						
10	150.213	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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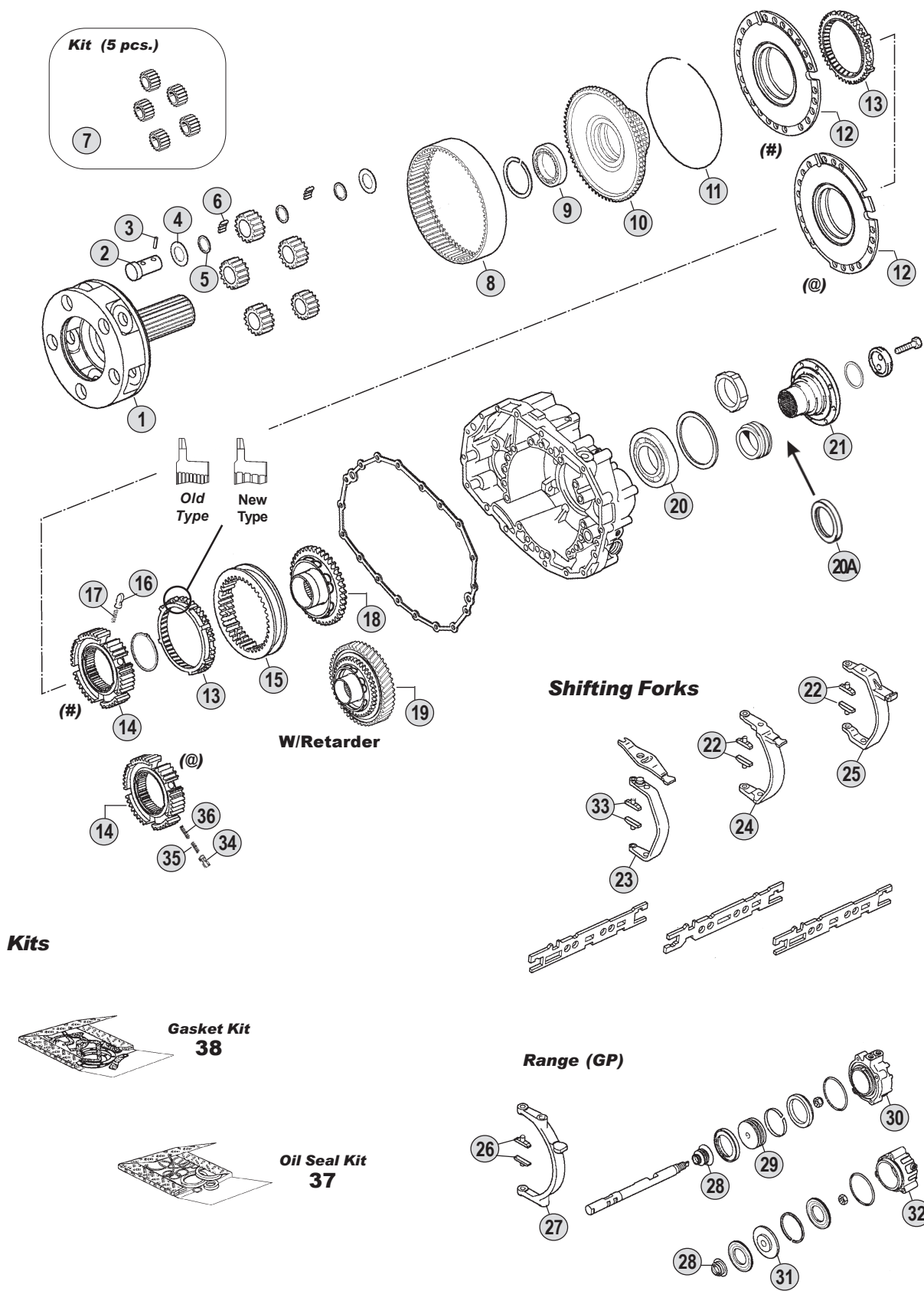
## Table

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)
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

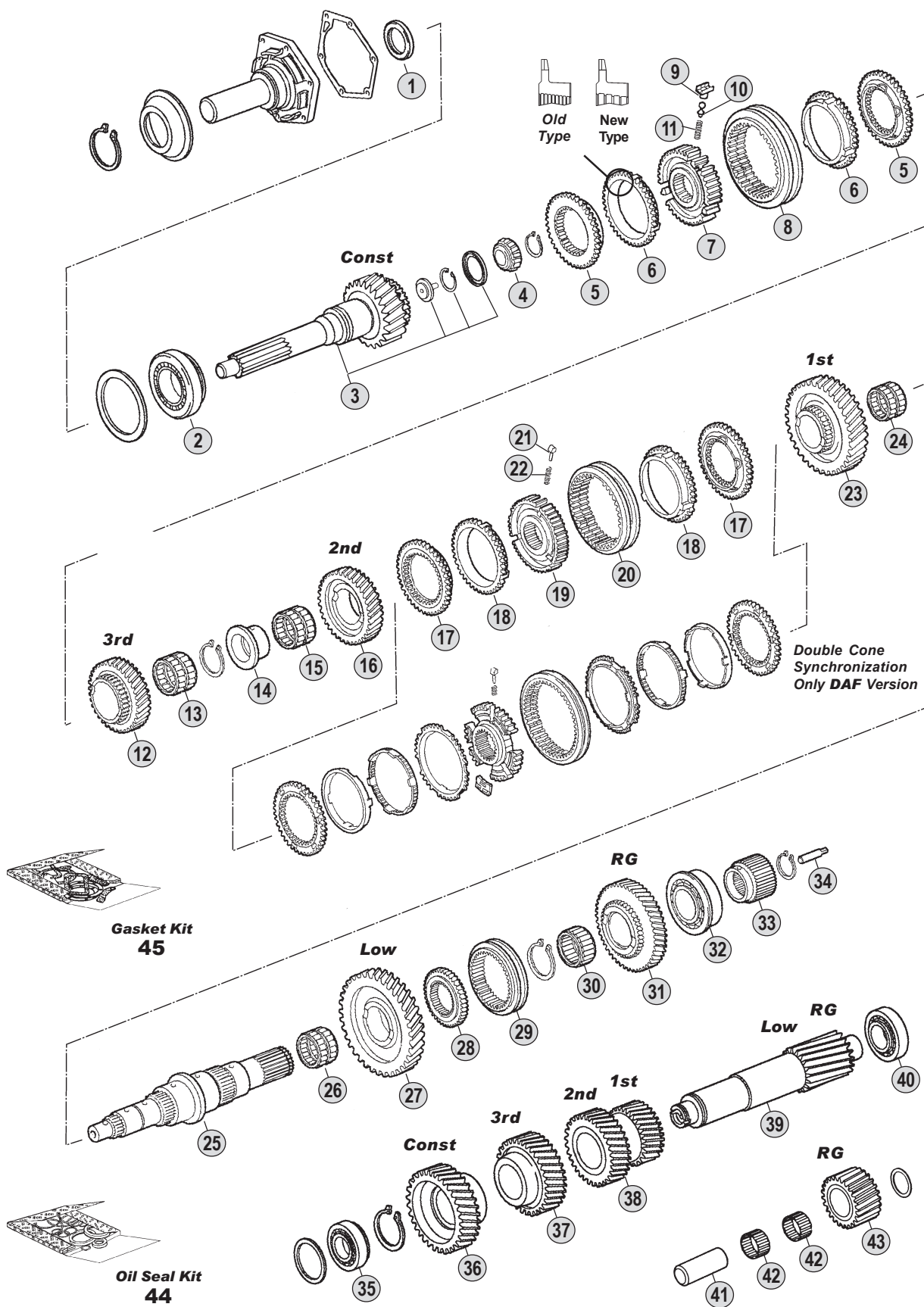
**ECOMID**  
9S109

### Ratios

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





9S109 (1304)

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	102.354	1304 202 170		Input Shaft 27 T	1		AB ●							
3	<b>102.352</b>	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	<b>102.355</b>	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	<b>102.347</b>	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	<b>109.391</b>	1304 304 660	93193716	Synchronizer Cone	2		●							
6	119.150	1304 304 014	8193098	Synchronizer Ring	2	Old Type	●							
6	<b>119.169</b>	1304 304 683	42532850	Synchronizer Ring	2	New Type	●							
7	<b>157.697</b>	1304 304 051	8193758	Synchronizer Hub	1		●							
8	<b>154.361</b>	6002 305 515	93156815	Sliding Sleeve	1		●							
9	<b>188.096</b>	1238 304 394	2965054	Pressure Piece	3		●							
10	<b>160.143</b>	1249 304 222	2965053	Plunger	3		●							
11	<b>156.140</b>	0732 040 409	2967403	Spring D.6,5x23,5	3		●							
12	<b>145.832</b>	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	<b>145.824</b>	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	<b>145.831</b>	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	<b>145.823</b>	1304 304 499	93155554	Gear 2nd Speed 29 T	1		D ●							
17	<b>109.171</b>	1304 304 408	8193069	Synchronizer Cone	2		●							
18	119.151	1304 304 542	93156812	Synchronizer Ring	2	Old Type	●							
18	<b>119.170</b>	1304 304 681	42532851	Synchronizer Ring	2	New Type	●							
19	<b>157.696</b>	1304 304 591	42532852	Synchronizer Hub	1		●							
20	<b>154.200</b>	1304 304 597	93156811	Sliding Sleeve	1		●							
21	<b>160.189</b>	1297 304 436	93156036	Pressure Piece	3		●							
22	<b>156.140</b>	0732 040 409	2967403	Spring D.6,5x23,5	3		●							
23	<b>145.830</b>	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	<b>147.227</b>	1304 304 498	8194253	Gear 1st Speed 33 T	1		D ●							
24	137.142	0735 320 816	8193024	Needle Cage D.75x83x23	1		●							
25	<b>103.190</b>	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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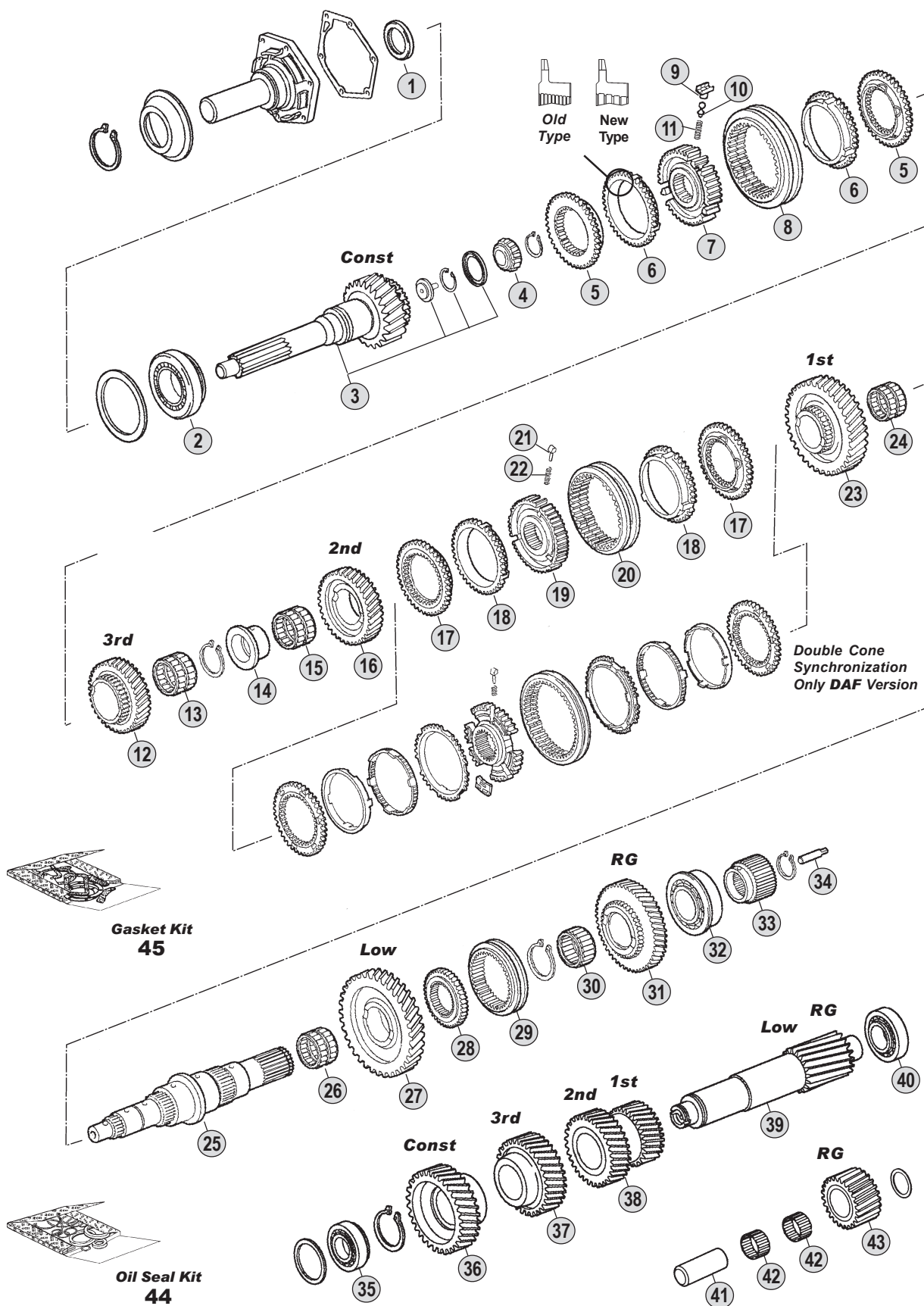
Table

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

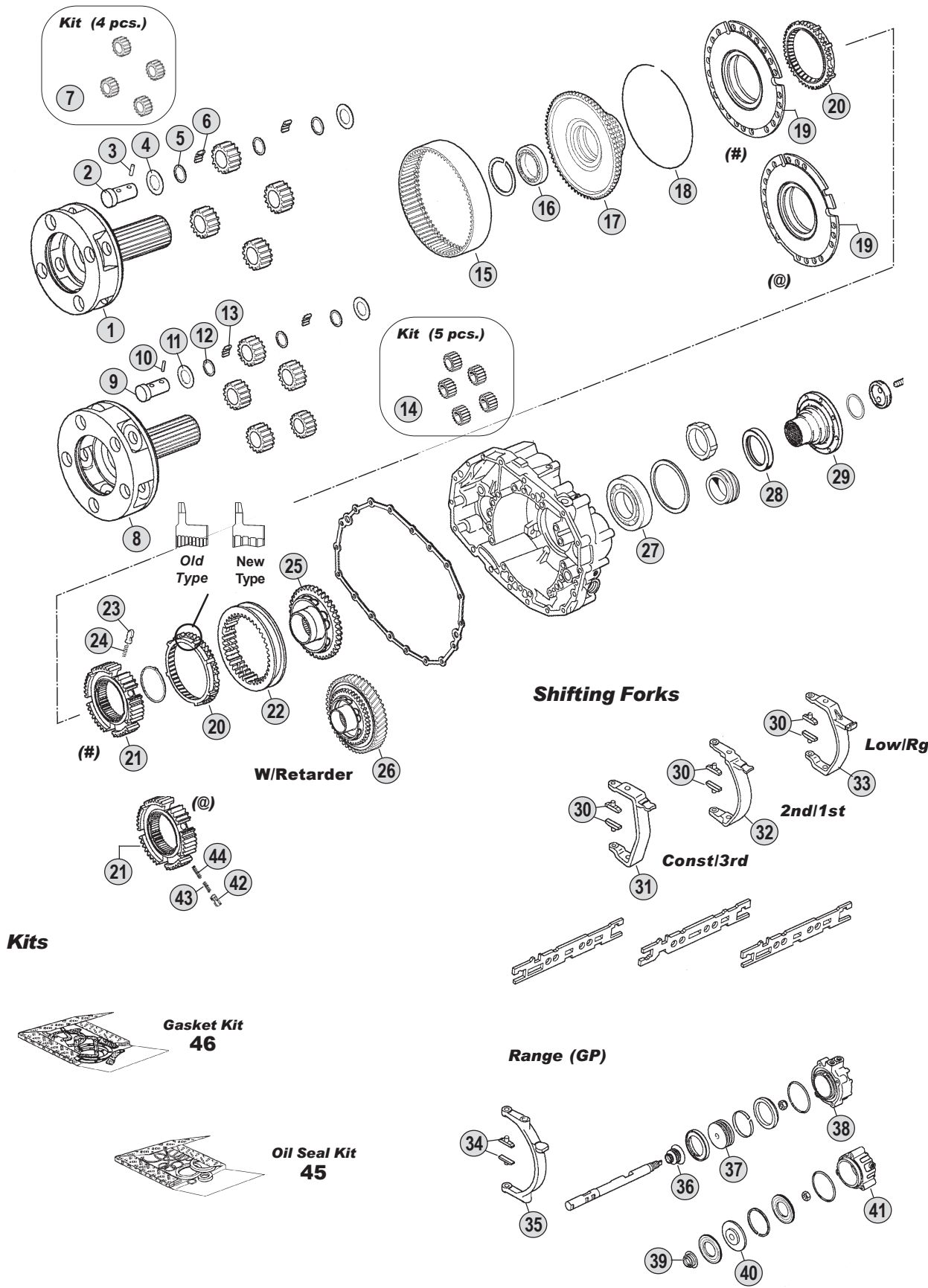
07 / 2006

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					
		ZF no.	IVECO no.					9S109				
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	623949	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.150-4 H.	(#)	●				
29		1304 338 060		Output Flange	1	D.180-4 H.	(#)	●				
29		1304 338 050	93191954	Output Flange	1	D.180-4 H.	(#)	●				
29		1304 338 053		Output Flange	1	D.180-8 H.	(#)	●				
29		1304 338 052	93156865	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

07 / 2006

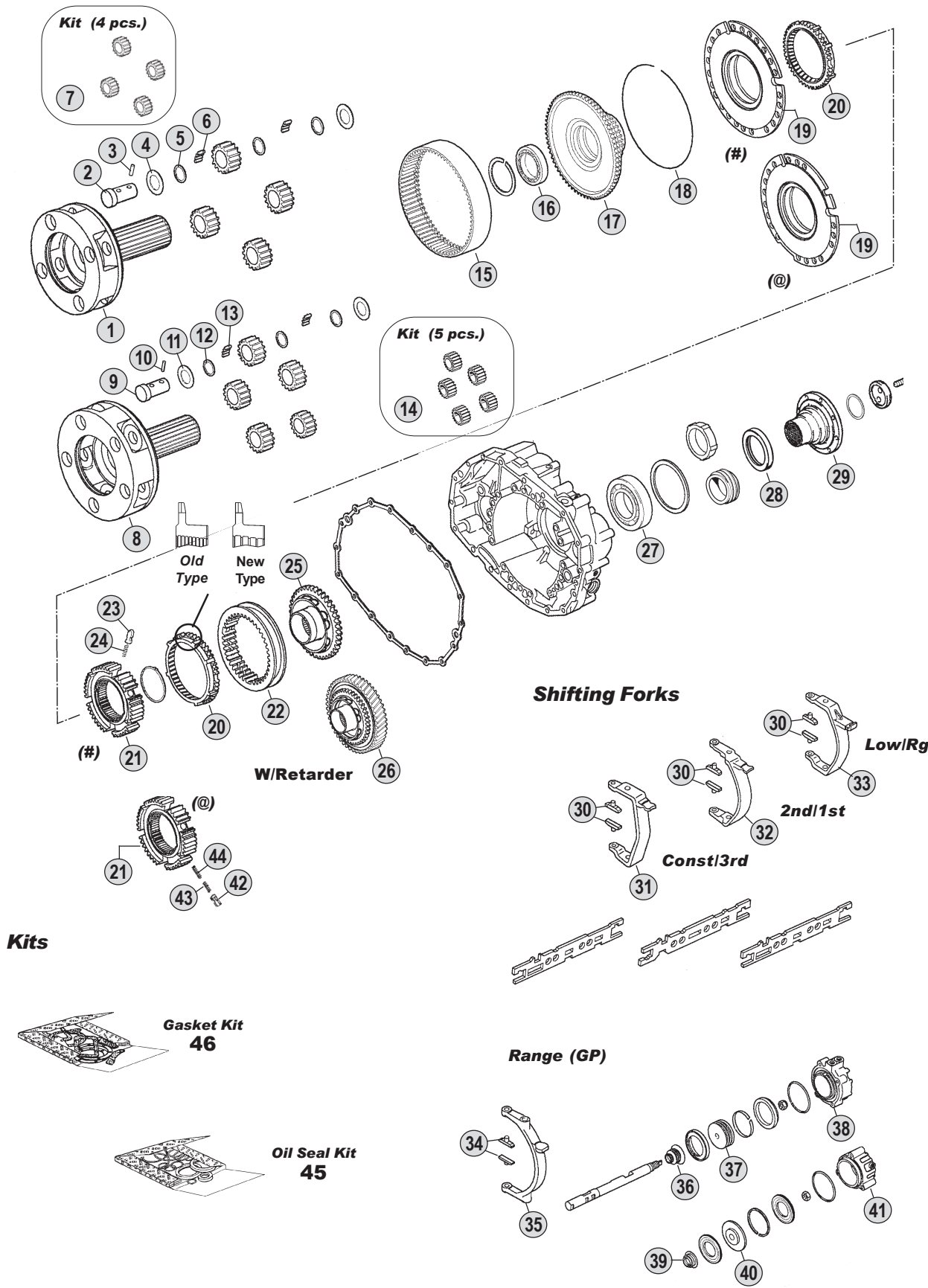
## Table

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	<b>141.194</b>	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	<b>141.061</b>	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	<b>160.116</b>	1240 304 278	2960200	Pressure Piece	9		(@)	●			
43	<b>156.037</b>	0732 040 385	8832940	Outer Spring De.6x34	9		(@)	●			
44	<b>156.036</b>	0732 040 386	9931785	Inner Spring De.3x34	9		(@)	●			
45	<b>298.026</b>	1304 298 908	93161005	Oil Seal Kit	1			●			
46	<b>198.945</b>	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	8S140	8S180	9S75	9S109	16S109
	(1304)	(1304)	(1304)	(1308)	(1304)	(1304)
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

**ECOMID**  
16S109

### Ratios

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

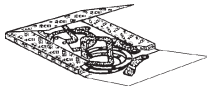
Suitable To : **ZF**

**16S109**

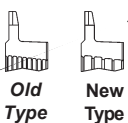
**Kits**



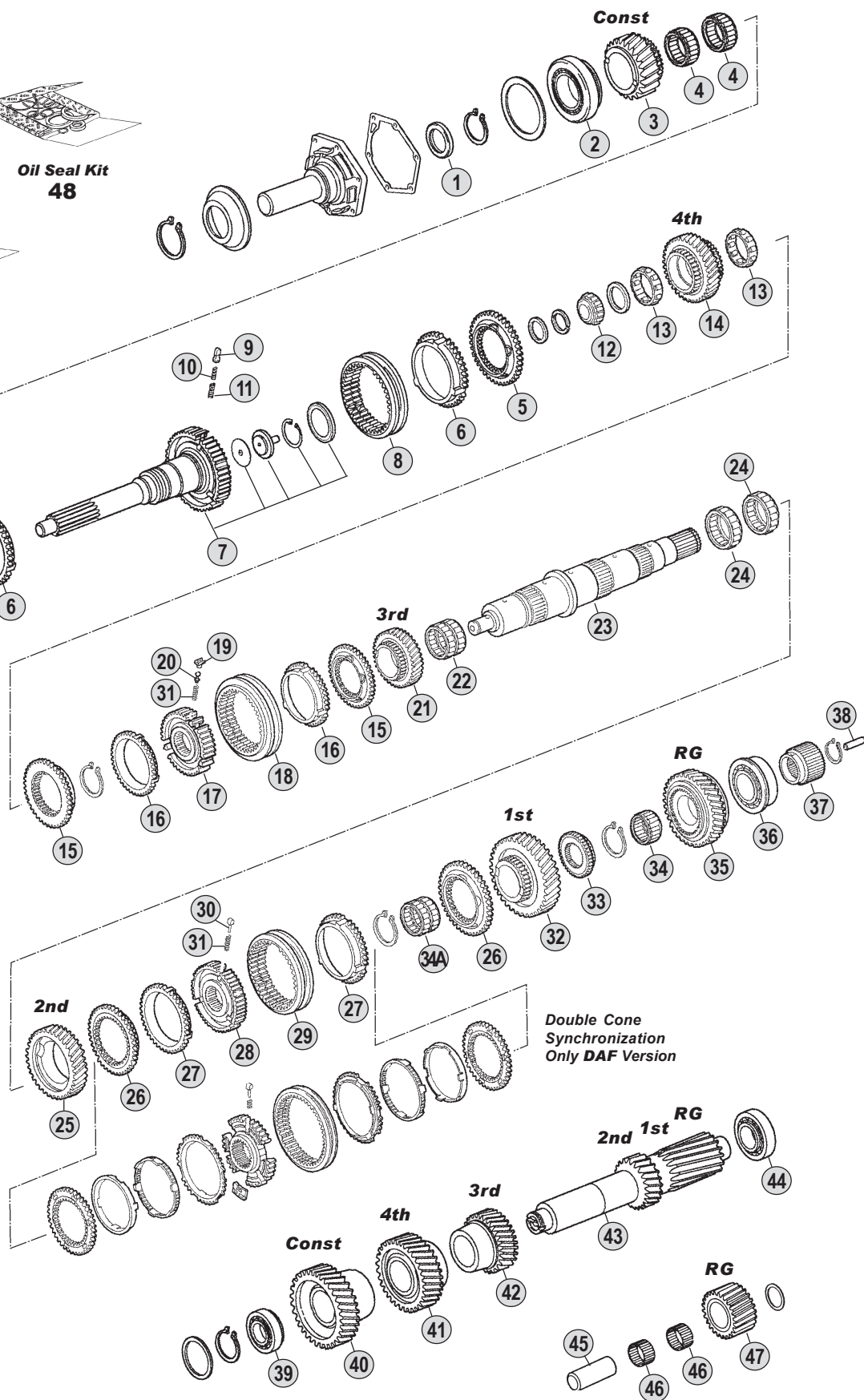
**Oil Seal Kit  
48**



**Gasket Kit  
49**



**Old Type  
New Type**



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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	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	<b>145.478</b>	1304 302 169	8193023	Constant Gear 26 T	1		ABCD	●			
3	<b>145.516</b>	1304 302 150	93163273	Constant Gear 30 T	1		E	●			
4	137.142	0735 320 816	8193024	Needle Cage D.75x83x23	2		●				
5	<b>109.169</b>	1304 302 188	93159654	Synchronizer Cone	2		●				
6	119.149	1304 304 496	93159655	Synchronizer Ring	2	Old Type	●				
6	<b>119.173</b>	1304 304 680	42533432	Synchronizer Ring	2	New Type	●				
7	<b>190.311</b>	1304 202 201		Input Shaft	1		●				
7	<b>190.312</b>	1304 202 202	93163272	Input Shaft	1		●				
7	<b>190.298</b>	1304 202 203	93190612	Input Shaft	1		●				
8	<b>154.064</b>	1240 304 272	2961524	Sliding Sleeve	1		●				
9	<b>160.116</b>	1240 304 278	2960200	Pressure Piece	3		●				
10	<b>156.036</b>	0732 040 386	9931785	Inner Spring De.3x34	3		●				
11	<b>156.037</b>	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	<b>146.397</b>	1304 304 516	93159664	Gear 4th Speed 27 T	1		ABCD	●			
14	<b>146.439</b>	1304 304 518		Gear 4th Speed 27 T	1		E	●			
15	<b>109.170</b>	1304 304 012	8193095	Synchronizer Cone	2		●				
16	119.150	1304 304 014	8193098	Synchronizer Ring	2	Old Type	●				
16	<b>119.169</b>	1304 304 683	42532850	Synchronizer Ring	2	New Type	●				
17	<b>157.186</b>	1304 304 515	93159662	Synchronizer Hub	1		●				
18	<b>154.199</b>	1304 304 688	93159663	Sliding Sleeve	1		●				
19	<b>188.096</b>	1238 304 394	2965054	Pressure Piece	3		●				
20	<b>160.143</b>	1249 304 222	2965053	Plunger	3		●				
21	<b>145.479</b>	1304 304 475	8193669	Gear 3rd Speed 29 T	1		ABCD	●			
21	<b>145.518</b>	1304 304 417	93163283	Gear 3rd Speed 32 T	1		E	●			
22	137.142	0735 320 816	8193024	Needle Cage D.75x83x23	1		●				
23	<b>103.129</b>	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	<b>109.171</b>	1304 304 408	8193069	Synchronizer Cone	2		●				
27	119.151	1304 304 542	93156812	Synchronizer Ring	2	Old Type	●				
27	<b>119.170</b>	1304 304 681	42532851	Synchronizer Ring	2	New Type	●				
28	<b>157.187</b>	1304 304 653	93194271	Synchronizer Hub	1		●				
29	<b>154.200</b>	1304 304 597	93156811	Sliding Sleeve	1		●				
30	<b>160.189</b>	1297 304 436	93156036	Pressure Piece	3		●				
31	<b>156.140</b>	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	<b>109.172</b>	1304 304 007	8193079	Synchronizer Cone	1		●				
34	137.147	0750 115 225	8193080	Needle Cage D.60x68x39	1		●				

Notes

Date

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Table

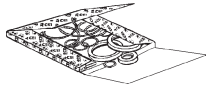
0120 / A

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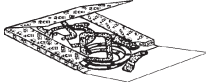
Suitable To : **ZF**

**16S109**

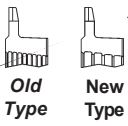
**Kits**



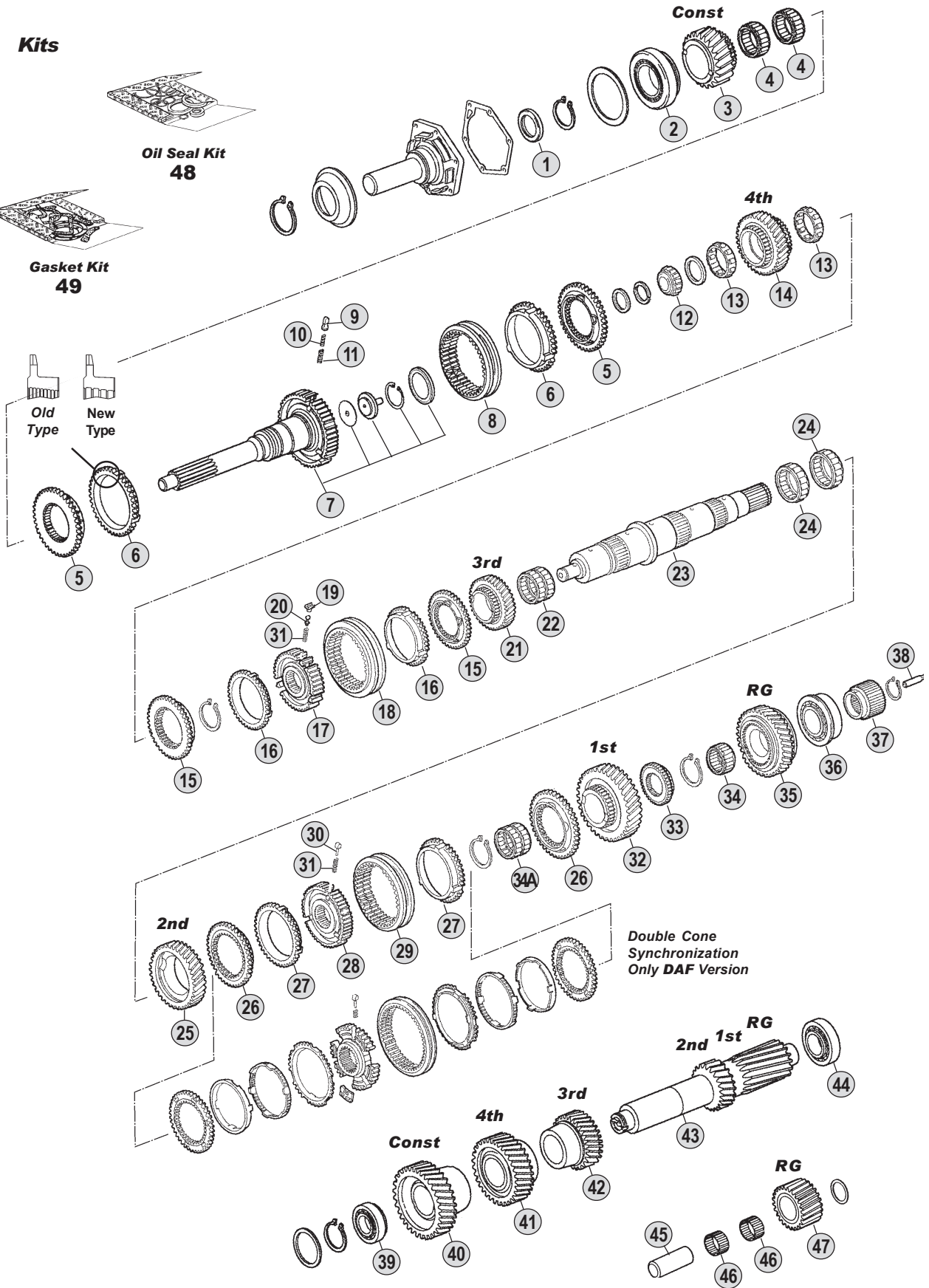
**Oil Seal Kit  
48**



**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.	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	<b>146.394</b>	1304 303 273	93159657	Constant Gear 33 T	1	ABCD	●					
40	<b>146.434</b>	1304 303 283	93163277	Constant Gear 31 T	1	E	●					
41	<b>146.395</b>	1304 303 212	8194429	Gear 4th Speed 29 T.	1	ABCD	●					
41	<b>146.436</b>	1304 303 175	93163276	Gear 4th Speed 34 T	1	E	●					
42	<b>146.396</b>	1304 303 214	8193670	Gear 3rd Speed 22 T	1	ABCD	●					
42	<b>146.438</b>	1304 303 192	93163275	Gear 3rd Speed 28 T	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	<b>298.026</b>	1304 298 908	93161005	Oil Seal Kit	1		●					
49	<b>198.945</b>	1304 298 914	93163825	Gasket Kit	1		●					

**ECOMID**  
16S109

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Notes

Date

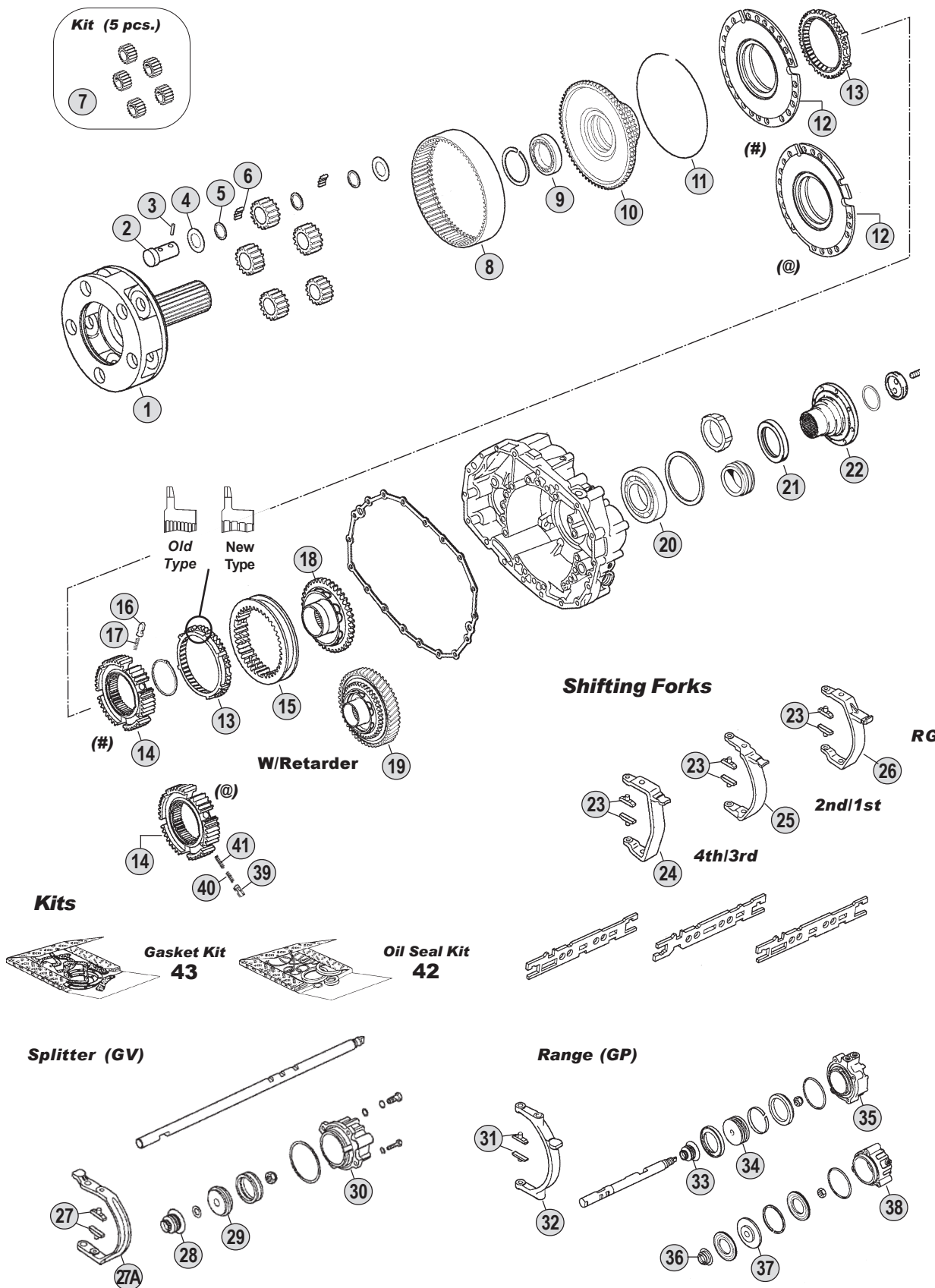
07 / 2006

Table

0120 / A

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	623949	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

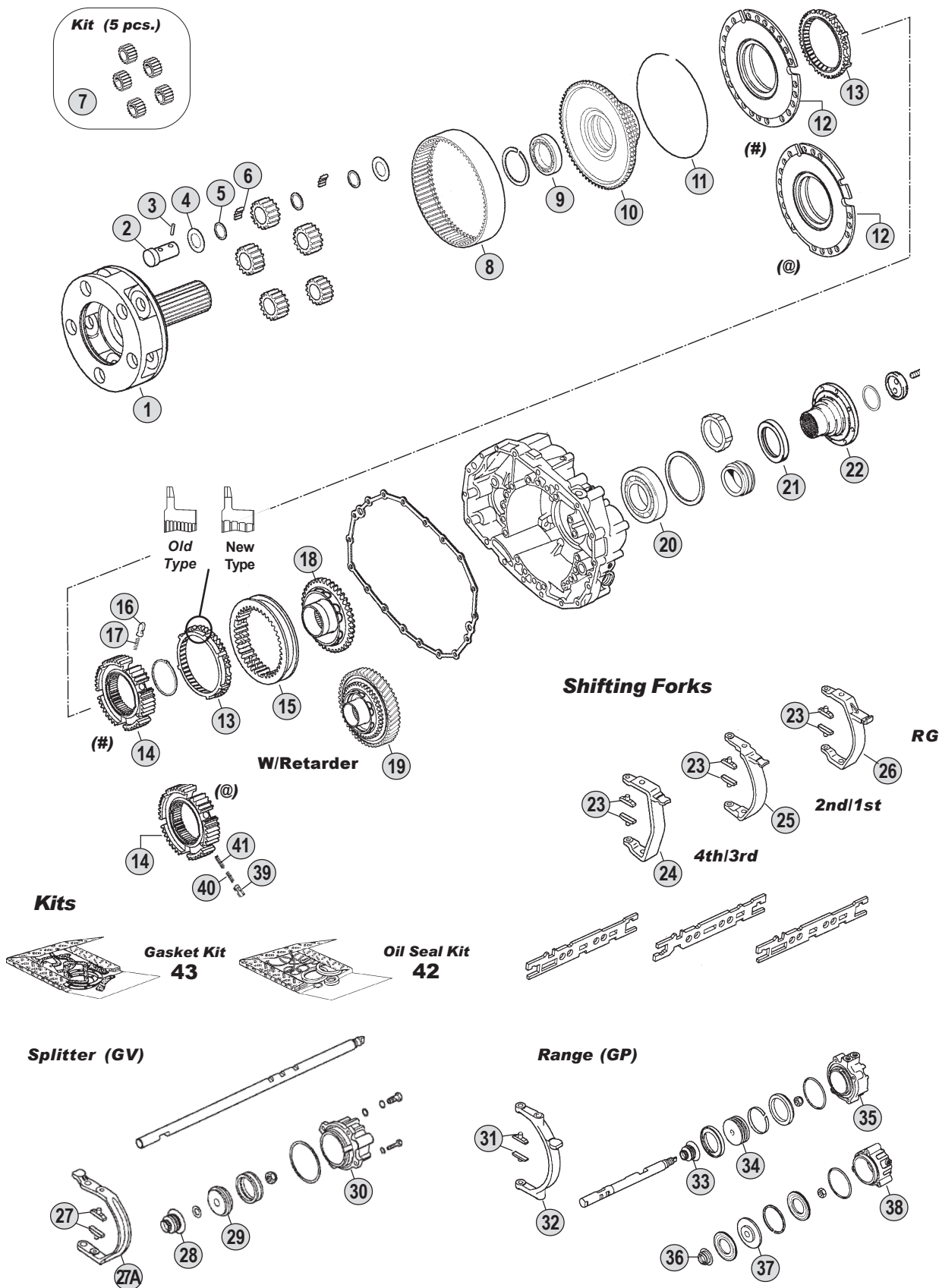
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## Table

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.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF 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			●			

**ECOMID**  
16S109

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Notes

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

Date

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Table

0120 / B



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

# Gearboxes Index

## EcoLite

**Bus Applications**

**S6-85**

**6S-1600**

## EcoLite

**Truck Applications**

**5S200**

**6S300**

**Renault V.I.**  
INDEX

## EcoMid

**Bus Applications**

**8S180**

## EcoMid

**Truck Applications**

**9S109**

**16S109**



suitable to :

# Z.F.

## EcoLite

### 5S200

### Application

	6S-850	5S200	6S300			
	(1290)	(1322)	(1323)			
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

### Ratios

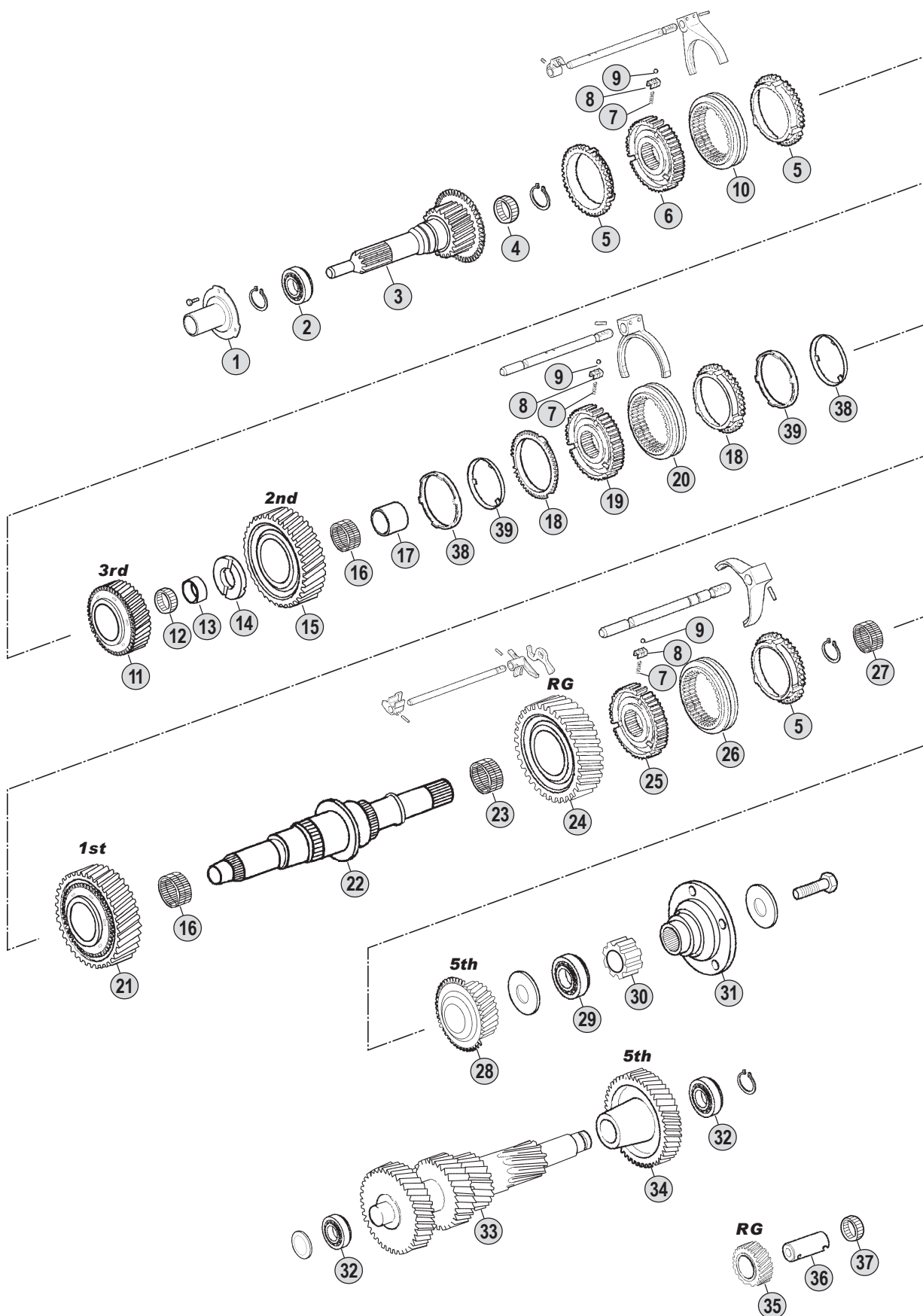
Ratio	Note
<b>4,99-0,78</b>	<b>A</b>

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**ECOLITE**  
5S200

Suitable To : **ZF**

**5S200**



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**Ratios**

**5S200** A : 4,99 - 0,78

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.					RVI no.				
1	128.224	1322 302 003	50 01 847 706	Cover	1		●				
2	130.781	0750 116 323	50 01 847 704	Bearing	1		●				
3	102.415	1322 202 004	50 01 847 703	Input shaft	1		●				
4	137.292	0750 115 539		Needle cage	1		●				
5	119.257	1322 304 022	50 01 854 861	Synchronizer Ring	3		●				
6	155.238	1322 304 005	50 01 854 866	Output flange	1		●				
7	156.192	1322 304 137		Spring	3	x 3 pcs	●				
8	<b>188.231</b>	1322 304 023		Pressure Piece	3	x 3 pcs	●				
9	160.252	0635 460 006		Ball	3	x 3 pcs	●				
10	154.410	1322 304 098	50 01 854 865	Sliding sleeve	1		●				
11	145.954	1322 204 031	50 01 847 755	Gear 3rd Speed 25 T	1		●				
12	137.293	0750 115 546		Needle cage	1		●				
13	117.405	1322 304 028	50 01 847 753	Bush	1		●				
14	167.112	1322 304 117		Washer	1		●				
15	145.955	1322 204 034	50 01 847 755	Gear 2nd Speed 32 T	1		●				
16	137.294	0750 115 529	50 01 847 747	Needle cage	2		●				
17	117.406	1322 304 114		Bush	1		●				
18	119.258	1322 304 108	50 01 854 869	Synchronizer Ring	2		●				
19	157.222	1322 304 110	50 01 854 867	Synchronizer hub	1		●				
20	<b>154.325</b>	1322 304 109	50 01 854 871	Sliding sleeve	1		●				
21	145.956	1322 204 035	50 01 847 748	Gear 1st Speed 41 T	1		●				
22	103.206	1322 304 103	50 01 847 734	Shaft	1		●				
23	137.295	0750 115 512	50 01 847 735	Needle cage	1		●				
24	<b>145.720</b>	1322 204 012	50 01 847 736	Reverse gear 37 T	1		●				
25	157.221	1322 304 004	50 01 854 860	Synchronizer hub	1		●				
26	<b>154.324</b>	1322 304 006	50 01 854 862	Sliding sleeve	1		●				
27	137.296	0750 115 540		Needle cage	1		●				
28	145.957	1322 204 039	50 01 847 740	Gear 5th Speed 25 T	1		●				
29	130.782	0750 116 368		Bearing	1		●				
30	189.658	1322 304 002	50 01 847 743	Pulse disk	1		●				
31	197.152	1322 304 025	50 01 847 744	Output flange	1		●				
32	130.783	0635 372 013		Bearing	2		●				
33	105.220	1322 303 007	50 01 847 719	Countershaft	1		●				
34	145.958	1322 303 005	50 01 847 720	Gear 5th Speed	1		●				
35	147.249	1322 305 003	50 01 847 667	Reverse gear	1		●				
36	107.212	1322 305 004	50 01 847 670	Reverse shaft	1		●				
37	137.297	0750 115 542		Needle cage	1		●				
38	119.259	1322 304 107	50 01 854 868	Synchronizer ring	2		●				
39	119.260	1322 304 111	50 01 854 870	Synchronizer ring	2		●				

**ECOLITE**  
5S200

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Notes

Date

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Table

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suitable to :

# Z.F.

## EcoLite

### 6S300

### Application

	6S-850	5S200	6S300			
	(1290)	(1322)	(1323)			
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

### Ratios

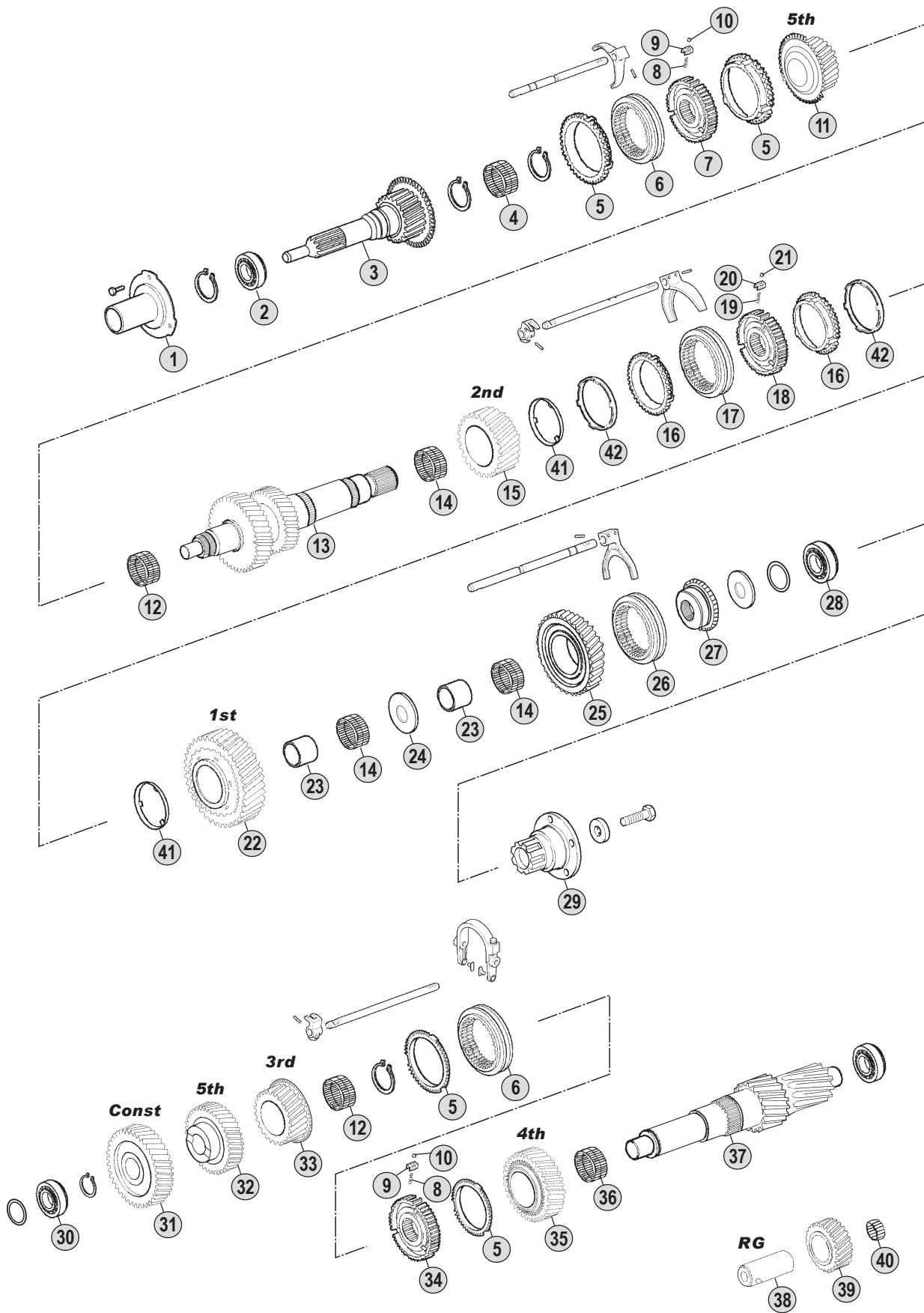
Ratio	Note
<b>6,73-1,00</b>	<b>A</b>

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**ECOLITE**  
6S300

Suitable To : **ZF**

**6S300**



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**Ratios**

**6S300** A : 6,73 - 1,00

6S300 (1323)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	RVI no.										
1	128.225	1323 302 003	50 01 847 295	Cover	1			●					
2	130.784	0735 330 479		Bearing	1			●					
3	102.416	1323 202 003	50 01 847 703	Input shaft	1			●					
4	137.298	0735 298 254	50 01 847 341	Needle cage	1			●					
5	119.261	1065 303 001	50 01 847 301	Synchronizer ring	4			●					
6	154.411	1323 303 012	50 01 847 302	Sliding sleeve	2			●					
7	155.239	1323 304 017	50 01 856 078	Synchronizer hub	1			●					
8	156.193	0770 060 784	50 01 847 303	Spring	6	2x3 pcs		●					
9	160.253	1053 303 127	50 01 847 304	Pressure piece	6	2x3 pcs		●					
10	160.254	0635 460 006		Sfera	6	2x3 pcs		●					
11	145.959	1323 204 019		Gear 5th Speed	1			●					
12	137.299	0735 321 449	50 01 847 308	Needle cage	2			●					
13	103.207	1323 304 030	50 01 847 321	Main shaft	1			●					
14	137.300	0735 321 451	50 01 847 322	Needle cage	3			●					
15	145.960	1323 204 007	50 01 847 323	Gear 2nd Speed	1			●					
16	119.262	1319 304 053	56 00 661 825	Synchronizer ring	2			●					
17	154.412	1319 304 037	56 00 661 827	Sliding sleeve	1			●					
18	155.240	1323 304 020	56 00 661 824	Synchronizer hub	1			●					
19	156.194	0770 060 816	56 00 661 745	Spring	3			●					
20	160.255	1052 304 117	56 00 661 746	Pressure piece	3			●					
21	171.014	0635 460 010	56 00 661 744	Ball D.6	3			●					
22	145.961	1323 204 008	50 01 847 329	Gear 1st Speed	1			●					
23	117.407	0730 162 810	50 01 847 328	Bush	2			●					
24	167.113	1323 304 022	50 01 847 330	Washer	1			●					
25	145.962	1323 304 021	50 01 847 331	Gear	1			●					
26	154.413	1323 304 009	50 01 847 507	Sliding sleeve	1			●					
27	155.241	1323 204 011	50 01 847 332	Hub	1			●					
28	130.785	0735 330 712		Bearing	1			●					
29	197.153	1323 304 025	50 01 847 335	Output flange	1			●					
30	130.786	0635 374 002	50 01 847 312	Bearing	2			●					
31	146.650	1323 303 016	50 01 847 311	Constant gear	1			●					
32	146.651	1323 303 041		Gear 5th Speed	1			●					
33	146.652	1323 203 005		Gear 3rd Speed	1			●					
34	155.242	1323 303 023	50 01 856 173	Synchronizer hub	1			●					
35	146.653	1323 203 004	50 01 847 298	Gear 4th Speed	1			●					
36	137.301	0735 321 450	50 01 847 297	Needle cage	1			●					
37	105.221	1323 303 008	50 01 847 296	Countershaft	1			●					
38	107.213	1323 305 001	50 01 847 516	Reverse shaft	1			●					
39	147.250	1323 305 007		Reverse Gear	1			●					
40	137.273	0750 115 233	50 00 293 956	Needle Cage D.30x38x30	1			●					
41	119.263	1319 304 032	56 00 661 828	Synchronizer ring	2			●					
42	119.264	1319 304 051	56 00 661 826	Synchronizer ring	2			●					

Notes

Date

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Table

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suitable to :

# Z.F.

## EcoLite

### S6-85

### Application

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

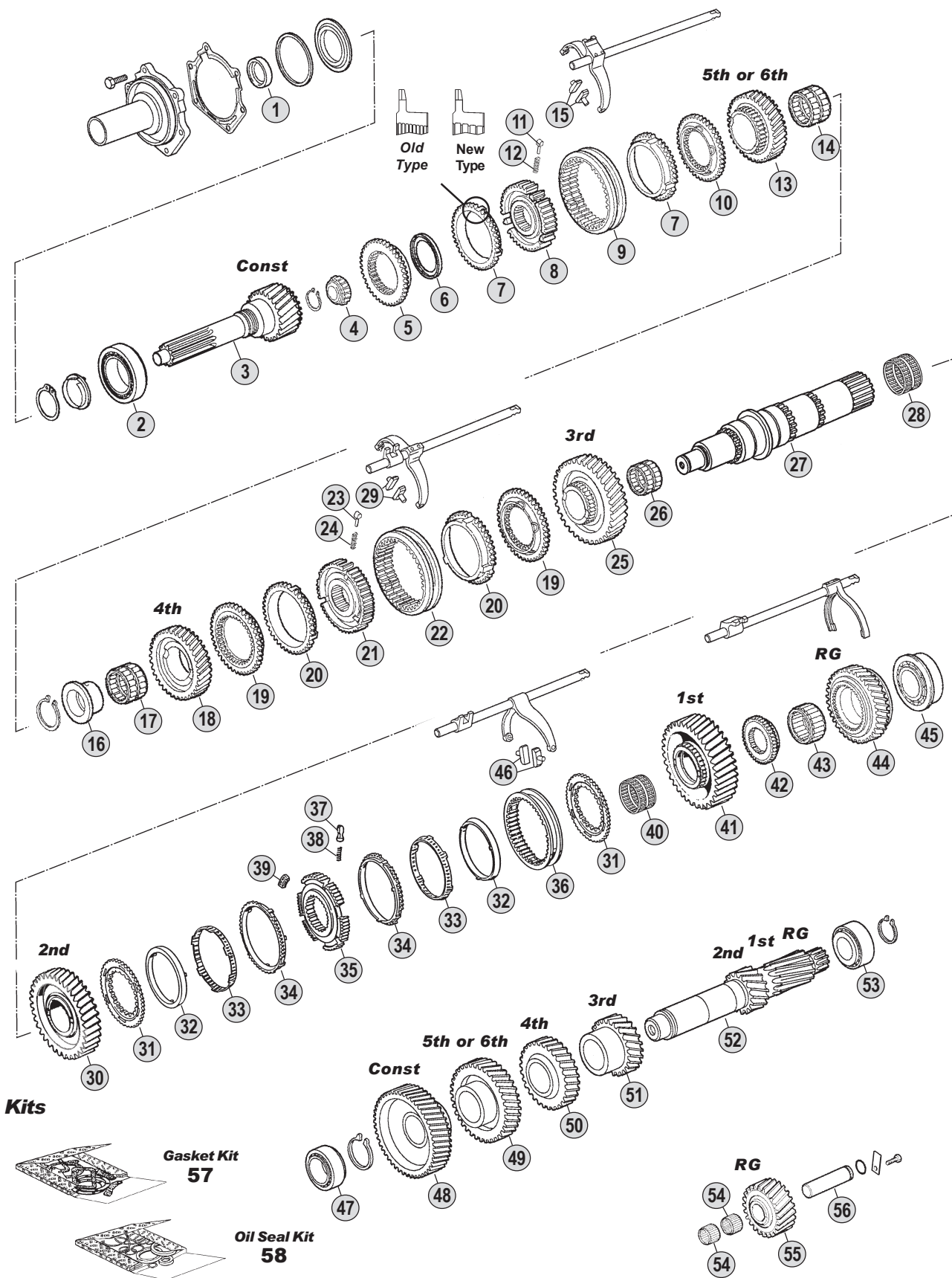
**ECOLITE**  
S6-85

### Ratios

Ratio	Note
<b>6,75-0,83</b>	<b>A</b>
<b>7,72-1,00</b>	<b>B</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	<b>102.391</b>	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	<b>109.400</b>	1310 302 023	50 01 832 897	Synchronizer Cone	1		A	●						
5	<b>109.401</b>	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	<b>119.220</b>	1311 304 255	50 01 844 157	Synchronizer Ring	2	New Type		●						
8	<b>157.706</b>	1311 304 226	50 01 832 960	Synchronizer Hub	1			●						
9	<b>154.363</b>	1304 304 664	50 01 842 982	Sliding Sleeve	1			●						
10	<b>109.402</b>	1311 304 009	50 01 832 959	Synchronizer Cone	1			●						
11	<b>160.189</b>	1297 304 436	50 00 289 398	Pressure Piece	3			●						
12	<b>156.140</b>	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	<b>141.194</b>	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	<b>109.134</b>	1312 304 027	50 01 831 793	Synchronizer Cone	2			●						
20	<b>119.119</b>	1297 304 402	50 01 831 795	Synchronizer Ring	2	Old Type		●						
20	<b>119.167</b>	1297 304 484	50 01 845 809	Synchronizer Ring	2	New Type		●						
21	<b>157.707</b>	1310 304 080	50 01 832 954	Synchronizer Hub	1			●						
22	<b>154.135</b>	1310 304 202	50 01 848 744	Sliding Sleeve	1			●						
23	<b>160.189</b>	1297 304 436	50 00 289 398	Pressure Piece	3			●						
24	<b>156.140</b>	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	<b>141.194</b>	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	<b>109.176</b>	1312 304 106	50 01 832 906	Synchronizer Cone	2			●						
32	<b>119.152</b>	1268 304 424	50 01 832 907	Intermediate synchro ring	2			●						
33	<b>119.153</b>	1268 304 494	50 01 849 668	Intermediate synchro ring	2			●						

Notes

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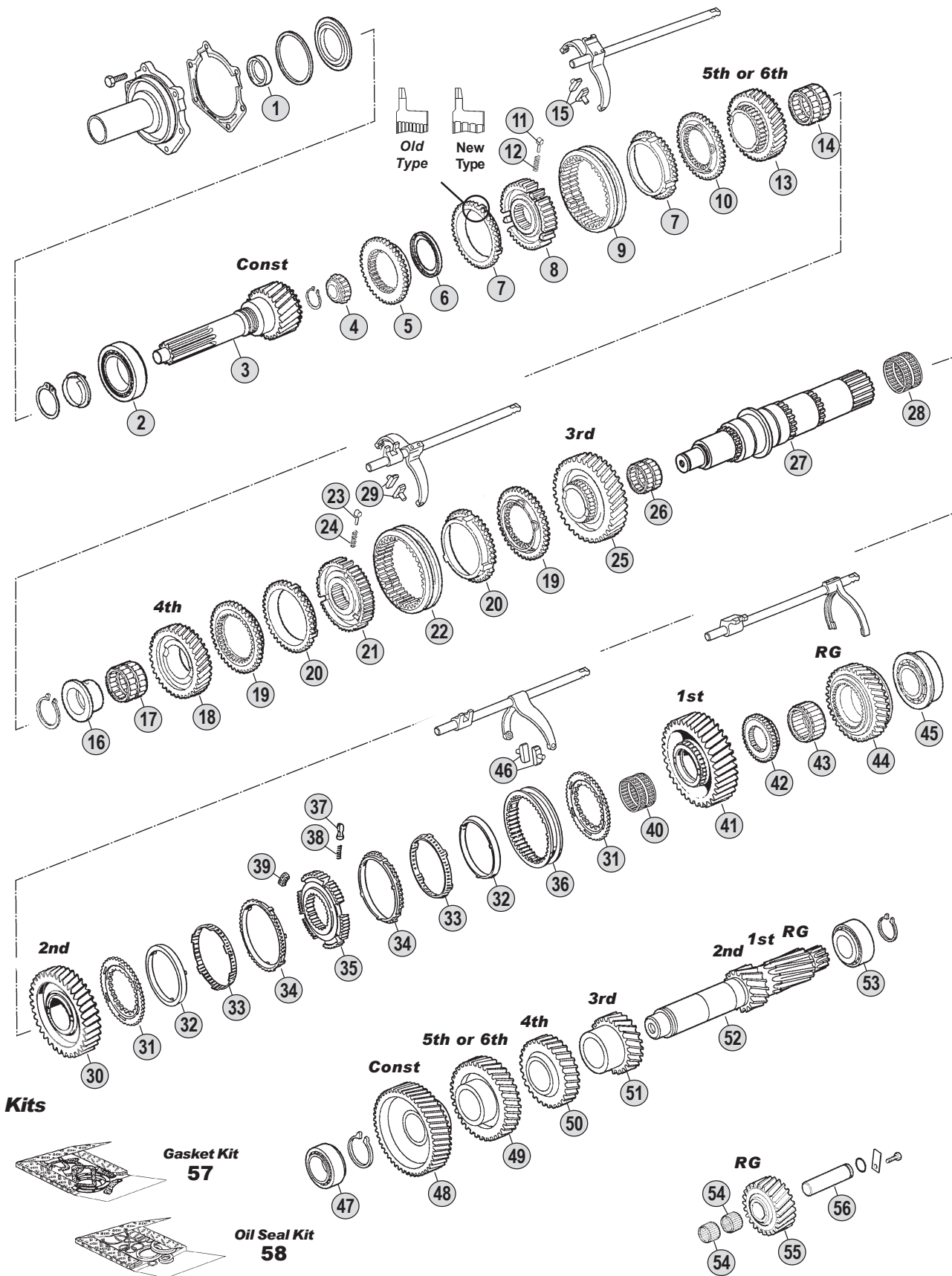
Table

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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.	R.V.I. no.					S6-85 (1310)			
34	119.144	1268 304 525	50 01 832 976	Synchronizer Ring	2		●				
35	157.708	1310 304 157	50 01 832 910	Synchronizer Hub	1		●				
36	154.190	1310 304 175	50 01 847 344	Sliding Sleeve	1		●				
37	160.189	1297 304 436	50 00 289 398	Pressure Piece	3		●				
38	156.140	0732 040 409	50 00 242 857	Spring D.6,5x23,5	3		●				
39	156.176	1312 304 159	50 01 832 974	Pad	3		●				
40	137.271	0735 321 108	50 01 832 986	Needle Cage D.75x83x50	1		●				
41	145.893	1310 304 011	50 01 832 987	Gear 1st Speed 50 T	1		●				
42	157.709	1311 304 250	50 01 832 988	Synchronizer Hub	1		●				
43	137.272	0735 298 255	50 01 854 933	Needle Cage D.70x86x42,5	1		●				
44	147.238	1310 304 200	50 01 854 931	Reverse Gear	1		●				
45	130.705	0735 370 730	50 01 832 993	Bearing D.60x120x29,7	1		●				
46	141.194	1290 306 066	50 00 813 892	Bronze Slide	2		●				
47	130.234	0750 117 083	50 00 819 722	Bearing D.50,8x95,2x27,7	1		●				
48	146.600	1310 303 032	50 01 833 004	Constant Gear 47 T	1		A	●			
48	146.605	1310 303 044	50 01 856 267	Constant Gear 50 T	1		B	●			
49	146.609	1310 303 033	50 01 833 003	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	50 01 833 002	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	50 01 833 001	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	50 01 855 406	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	147.239	1310 305 003	50 01 833 012	Reverse Gear 21 T	1		●				
56	107.201	1310 305 001	50 01 833 013	Reverse Pin	1		●				
57	298.039	1310 298 002	50 01 833 177	Gasket Kit	1		●				
58	298.040	1310 298 003	50 01 833 178	Oil Seals Kit	1		●				

**ECOLITE**  
S6-85

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Notes

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suitable to :

# Z.F.

## EcoLite

### 6S-1600

### Application

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

### Ratios

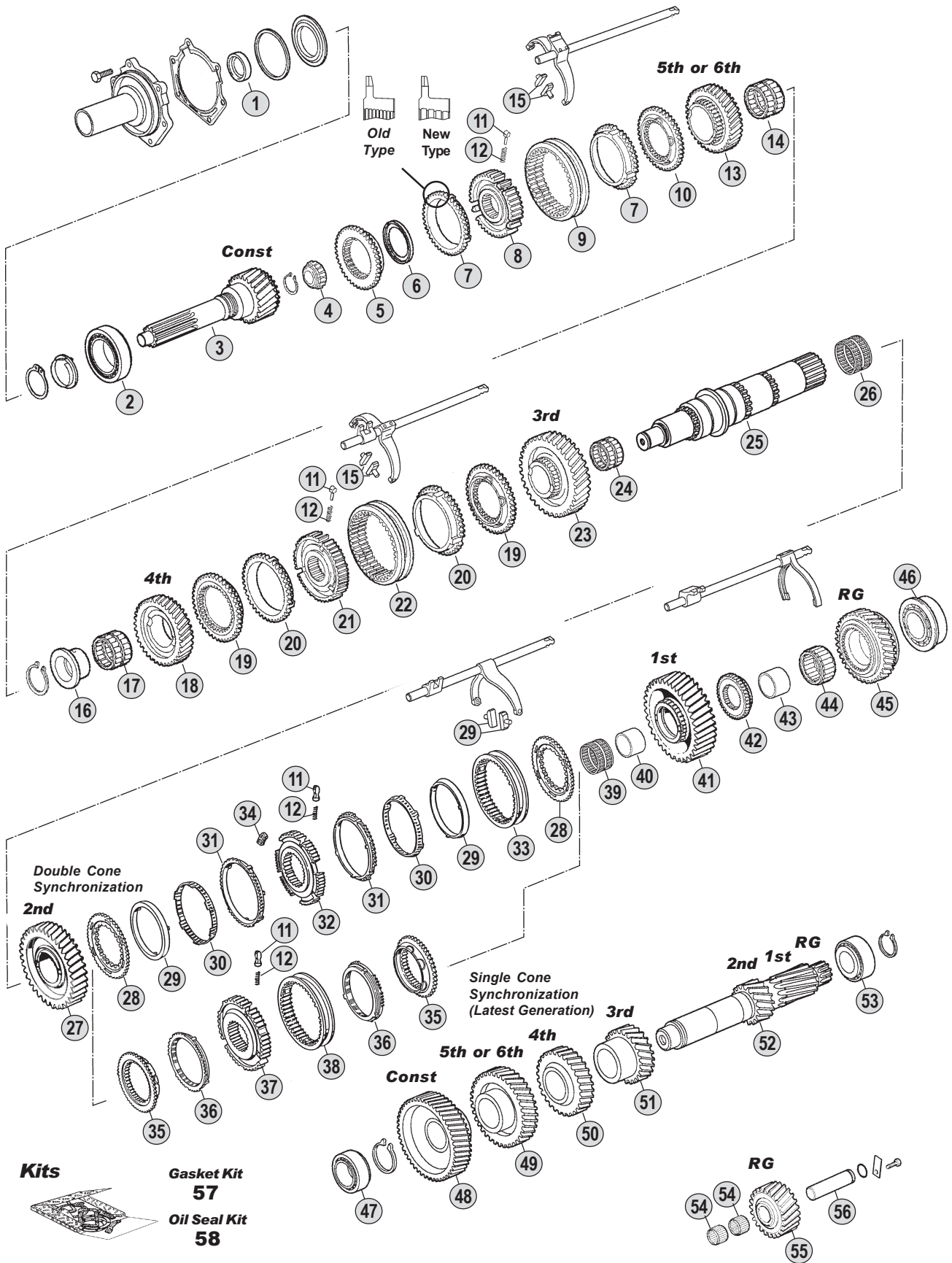
Ratio	Note
<b>6,32-0,81</b>	<b>A</b>
<b>7,72-1,00</b>	<b>B</b>

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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.	6S-1600 (1310)						
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	Mozzo sincronizzatore	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 321 560	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 synchro ring	2		●							
30	119.153	1268 304 494	50 01 849 668	Intermediate synchro ring	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

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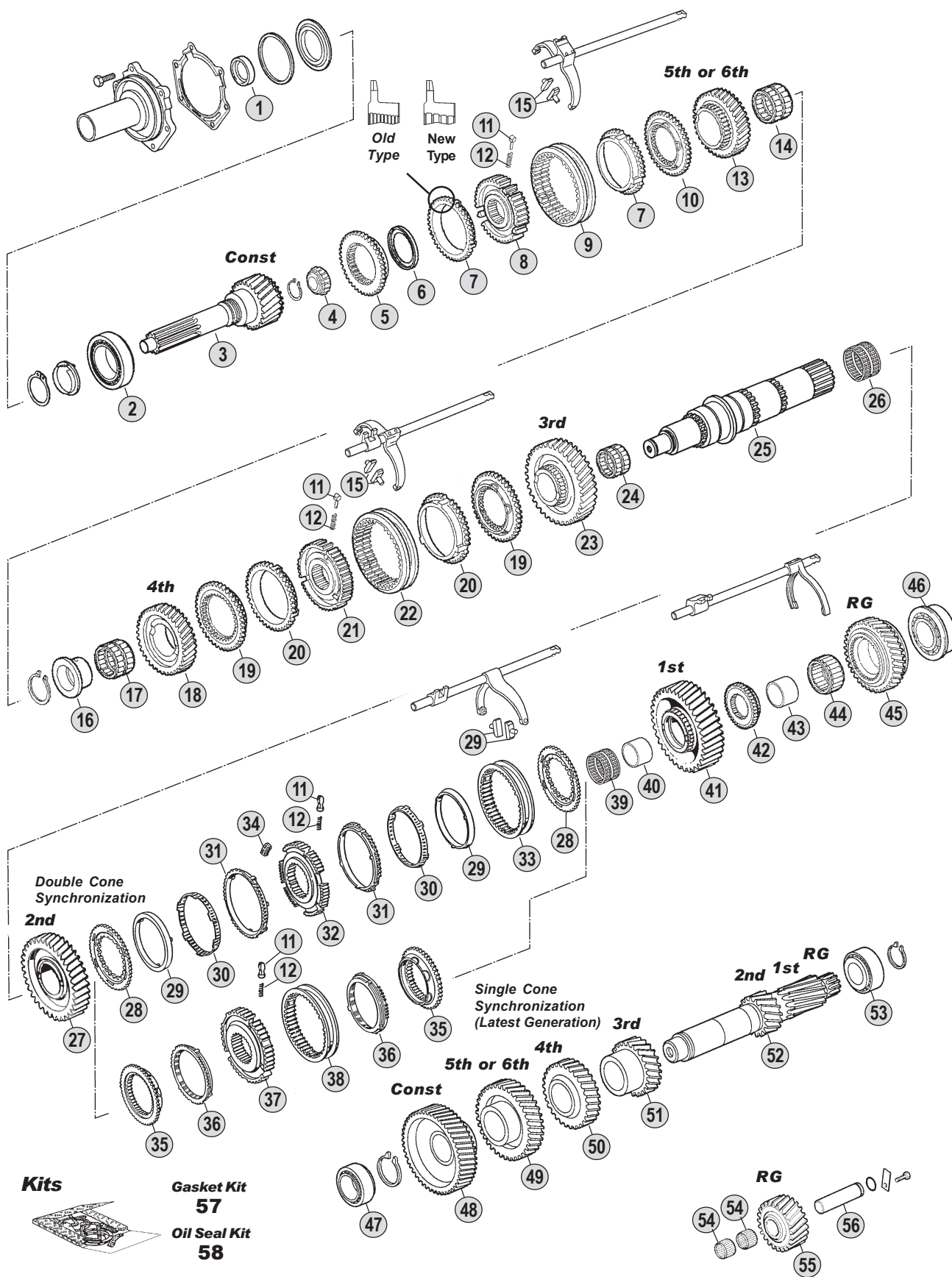
## Table

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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

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suitable to :

# Z.F.

## EcoMid

### 8S180

### Application

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

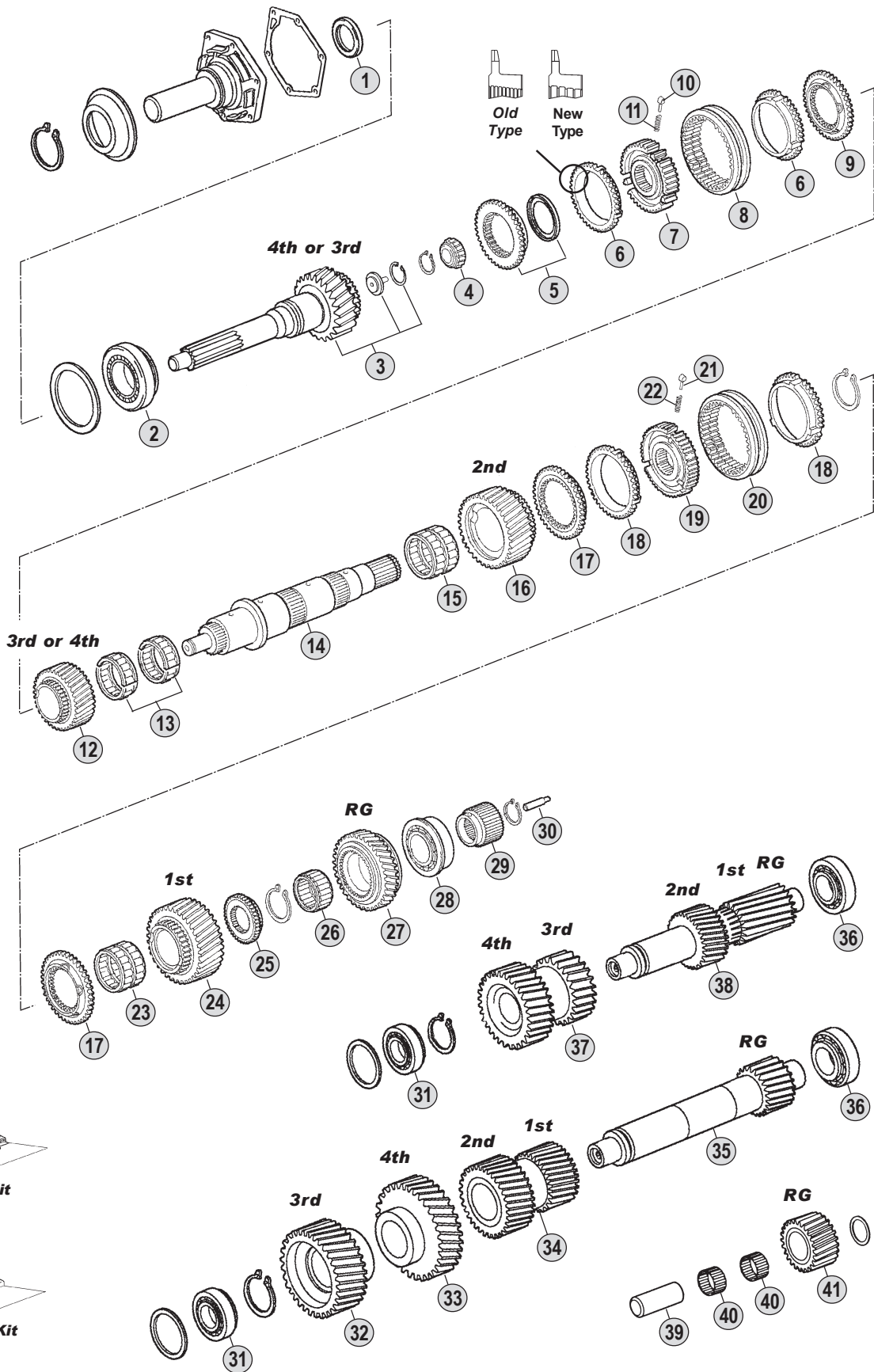
**ECOMID**  
8S180

### Ratios

Ratio	Note
<b>6,38-0,76</b>	<b>A</b>
<b>8,73-1,00</b>	<b>B</b>

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	8S180 (1304)						
		ZF no.	R.V.I. no.											
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	102.425	1304 202 207		Input shaft	1		●							
3	102.361	1304 202 208	50 01 845 435	Input Shaft 29 T	1		●							
3	102.426	1304 202 210	50 01 823 811	Input Shaft 29 T	1		●							
3	102.427	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	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

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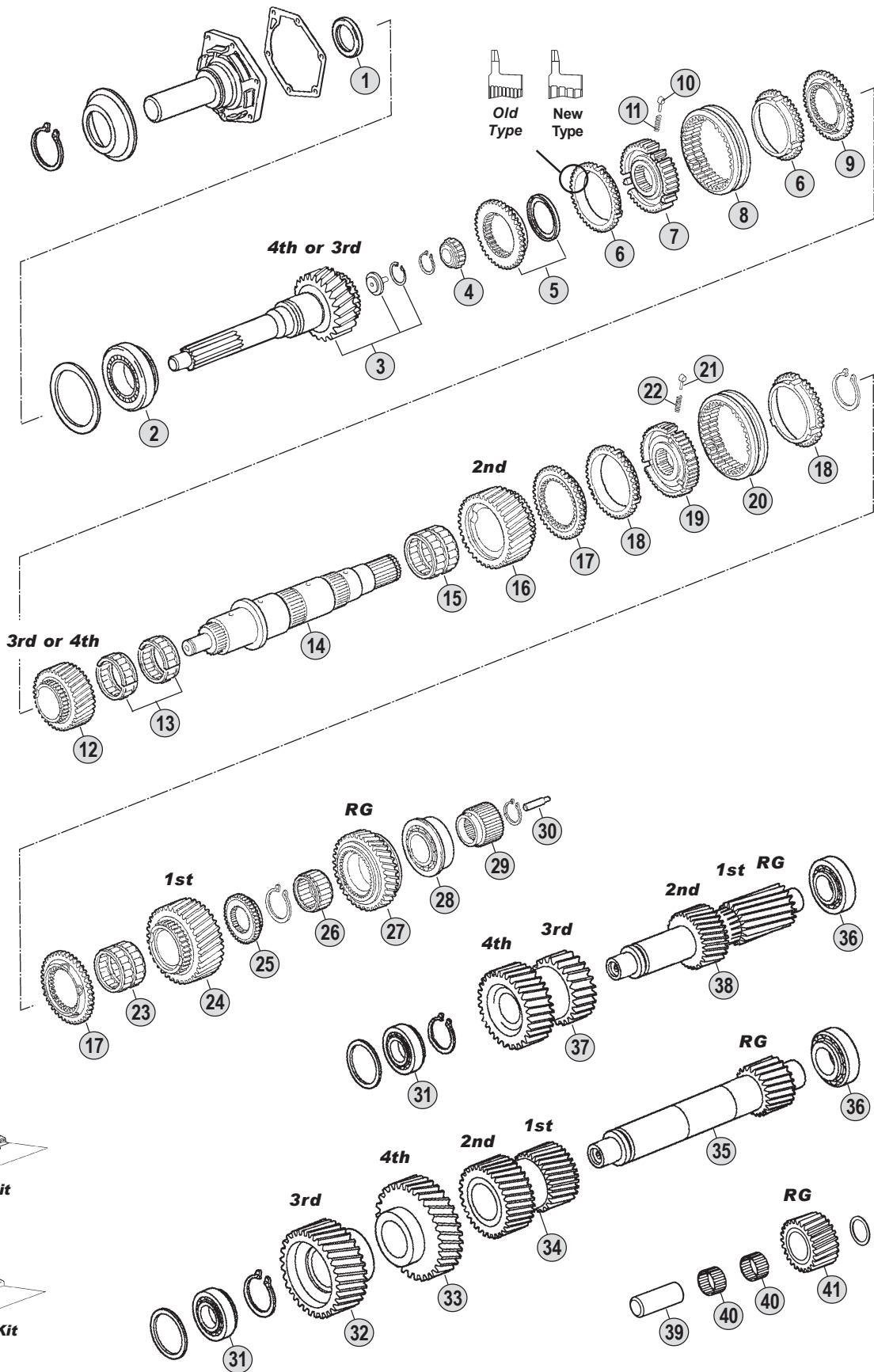
Table

0145 / A

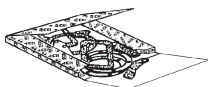
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Suitable To : **ZF**

**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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O.E.M. Reference

8S180 (1304)

Fig.	CEI no.	ZF no.	R.V.I. no.	Description	Q.ty	Note	Ratio						
36	130.234	0750 117 083	50 00 819 722	Bearing D.50,8x95,2x27,7	1			●					
37	<b>143.120</b>	1304 303 289	50 01 860 135	Double Gear 23/31 T	1		B	●					
38	<b>105.185</b>	1304 303 322	50 10 242 815	Countershaft 16/19 T	1		B	●					
39	107.156	1304 305 030	50 00 819 701	Reverse Shaft	1			●					
40	137.143	0735 358 192	50 00 819 702	Needle Cage D.40x60x26	2			●					
41		1304 305 043	50 01 823 809	Reverse Gear 22 T	1			●					
42	<b>298.027</b>	1304 298 939	50 01 823 976	Oil Seal Kit	1			●					
43	<b>198.945</b>	1304 298 914	50 01 014 897	Gasket Kit	1			●					

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Notes

Date

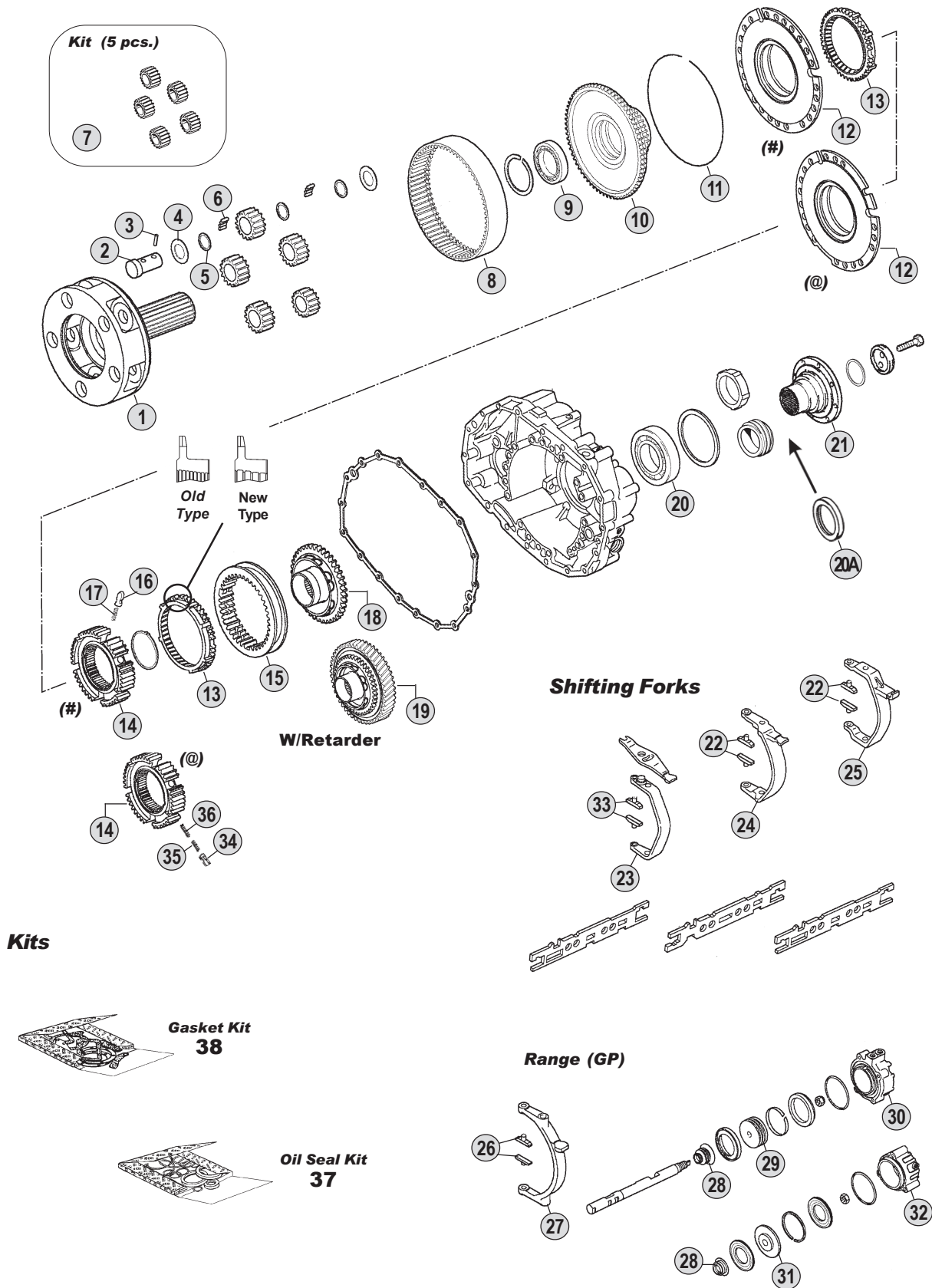
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Table

0145 / A

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	00 01 126 133	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	150.213	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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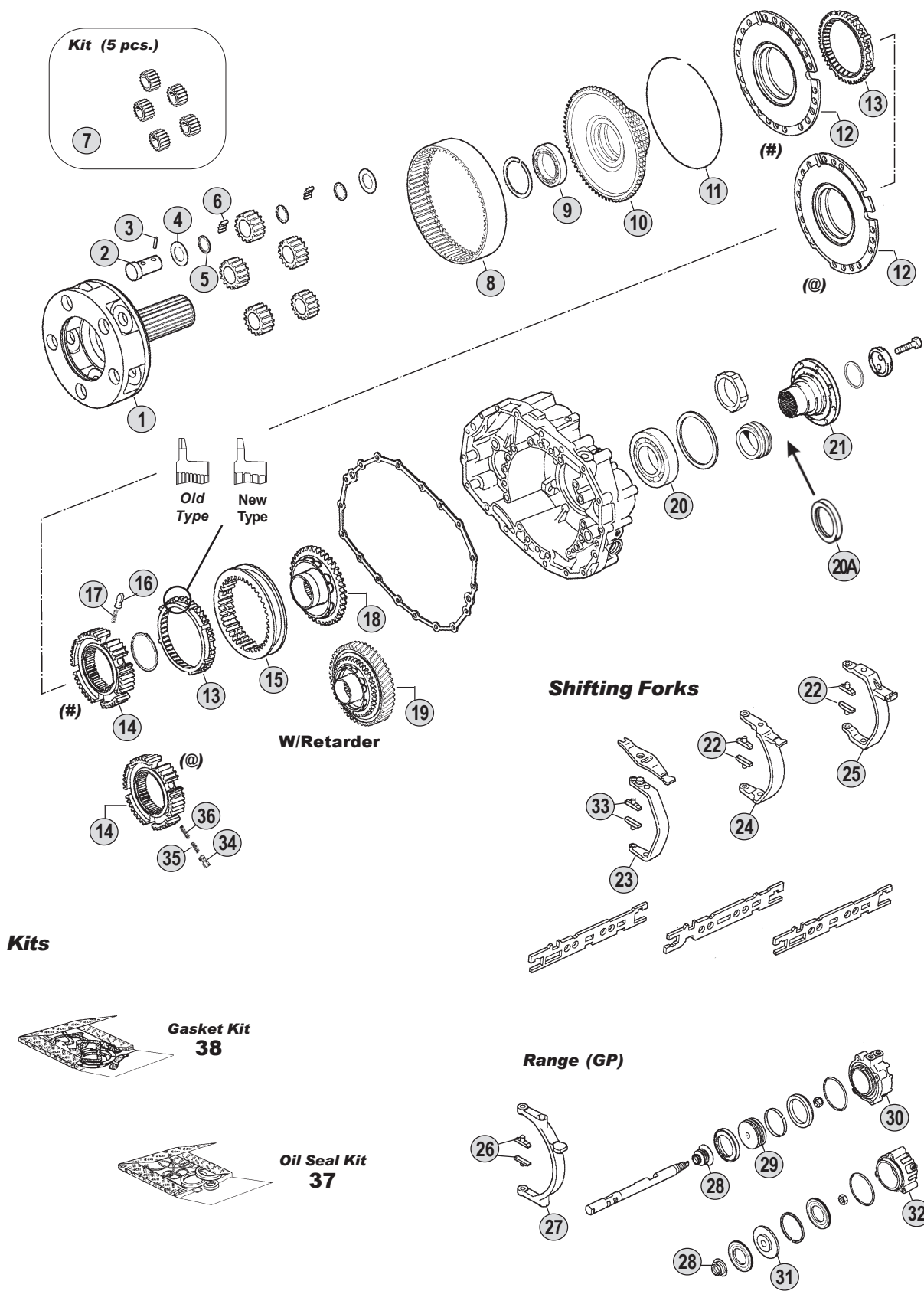
## Table

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)
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

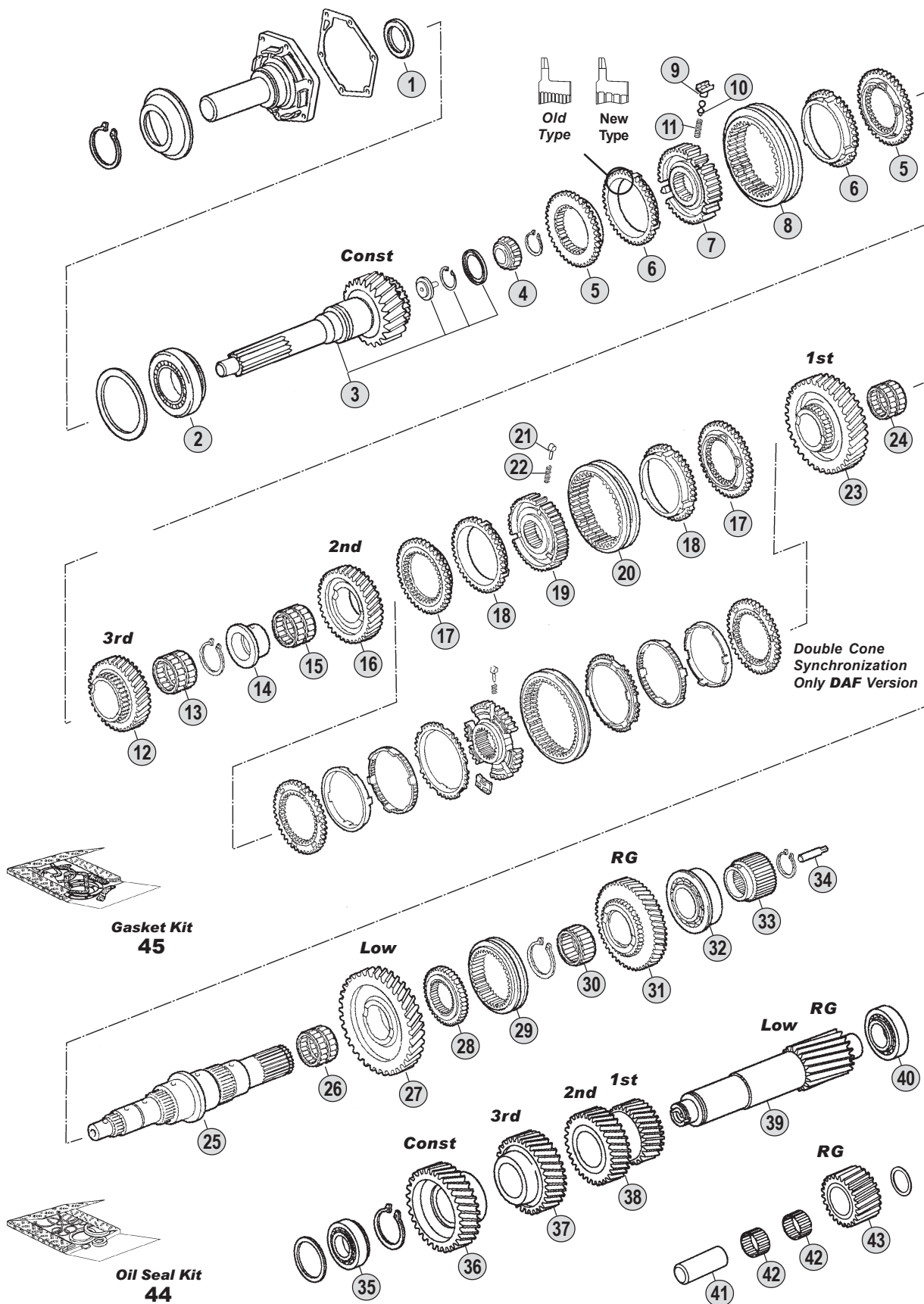
**ECOMID**  
9S109

### Ratios

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

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	<b>102.352</b>	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	<b>102.355</b>	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	<b>102.347</b>	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	<b>109.391</b>	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	<b>119.169</b>	1304 304 683	50 01 850 287	Synchronizer Ring	2	New Type	●				
7	<b>157.697</b>	1304 304 051	50 00 819 768	Synchronizer Hub	1		●				
8	<b>154.361</b>	6002 305 515	50 00 293 423	Sliding Sleeve	1		●				
9	<b>188.096</b>	1238 304 394	50 00 242 859	Pressure Piece	3		●				
10	<b>160.143</b>	1249 304 222	50 00 242 858	Plunger	3		●				
11	<b>156.140</b>	0732 040 409	50 00 242 857	Spring D.6,5x23,5	3		●				
12	<b>145.832</b>	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	<b>145.824</b>	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	<b>145.831</b>	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	<b>145.823</b>	1304 304 499		Gear 2nd Speed 29 T	1		●	D			
17	<b>109.171</b>	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	<b>119.170</b>	1304 304 681	50 01 845 850	Synchronizer Ring	2	New Type	●				
19	<b>157.696</b>	1304 304 591	50 01 824 955	Synchronizer Hub	1		●				
20	<b>154.200</b>	1304 304 597	50 00 293 410	Sliding Sleeve	1		●				
21	<b>160.189</b>	1297 304 436	50 00 289 398	Pressure Piece	3		●				
22	<b>156.140</b>	0732 040 409	50 00 242 857	Spring D.6,5x23,5	3		●				
23	<b>145.830</b>	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	<b>147.227</b>	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	<b>103.190</b>	1304 304 449	50 00 819 735	Main Shaft	1		●				
26	137.257	0735 320 500	50 00 805 917	Needle Cage D.75x83x35	1		●				

Notes

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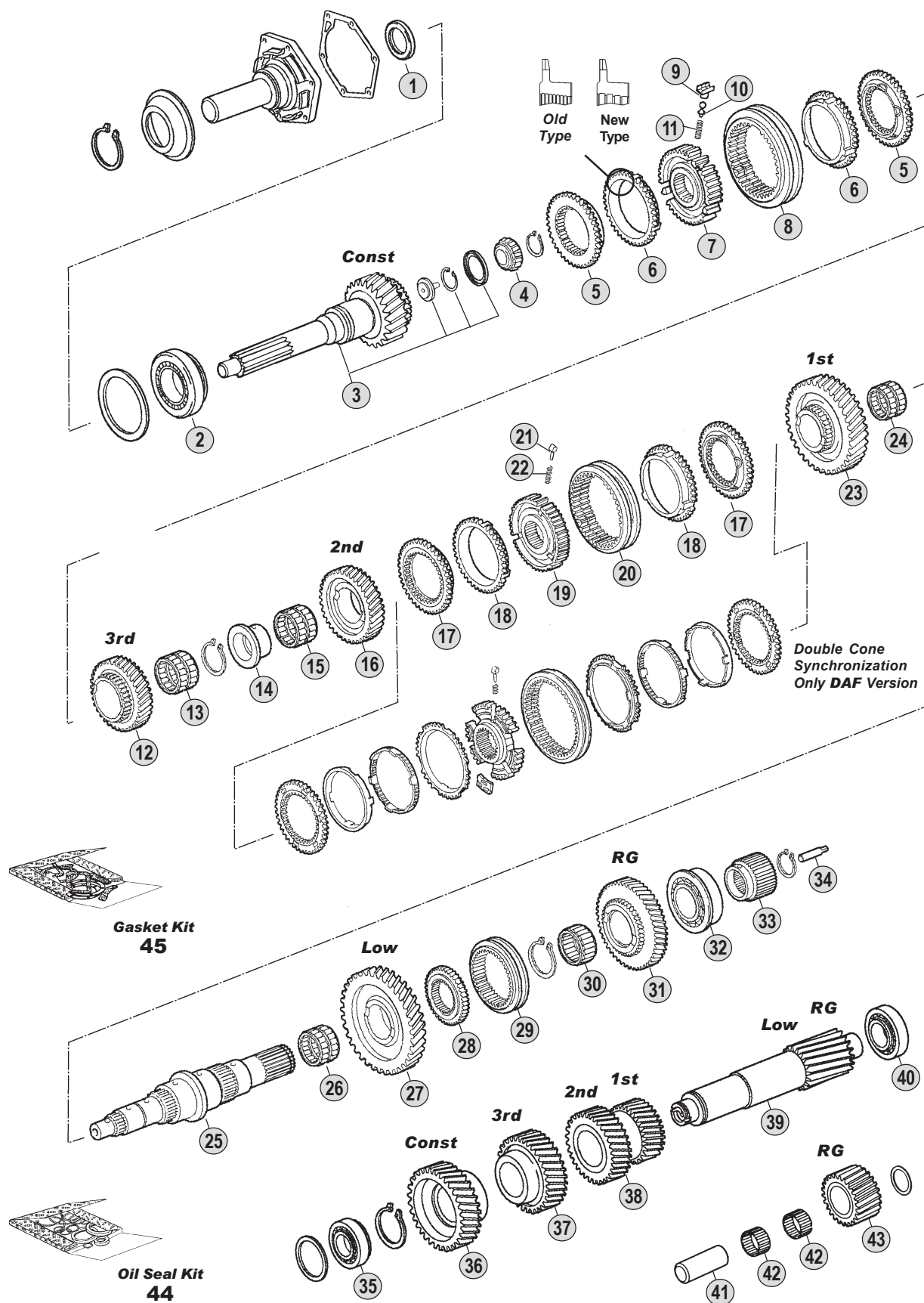
Table

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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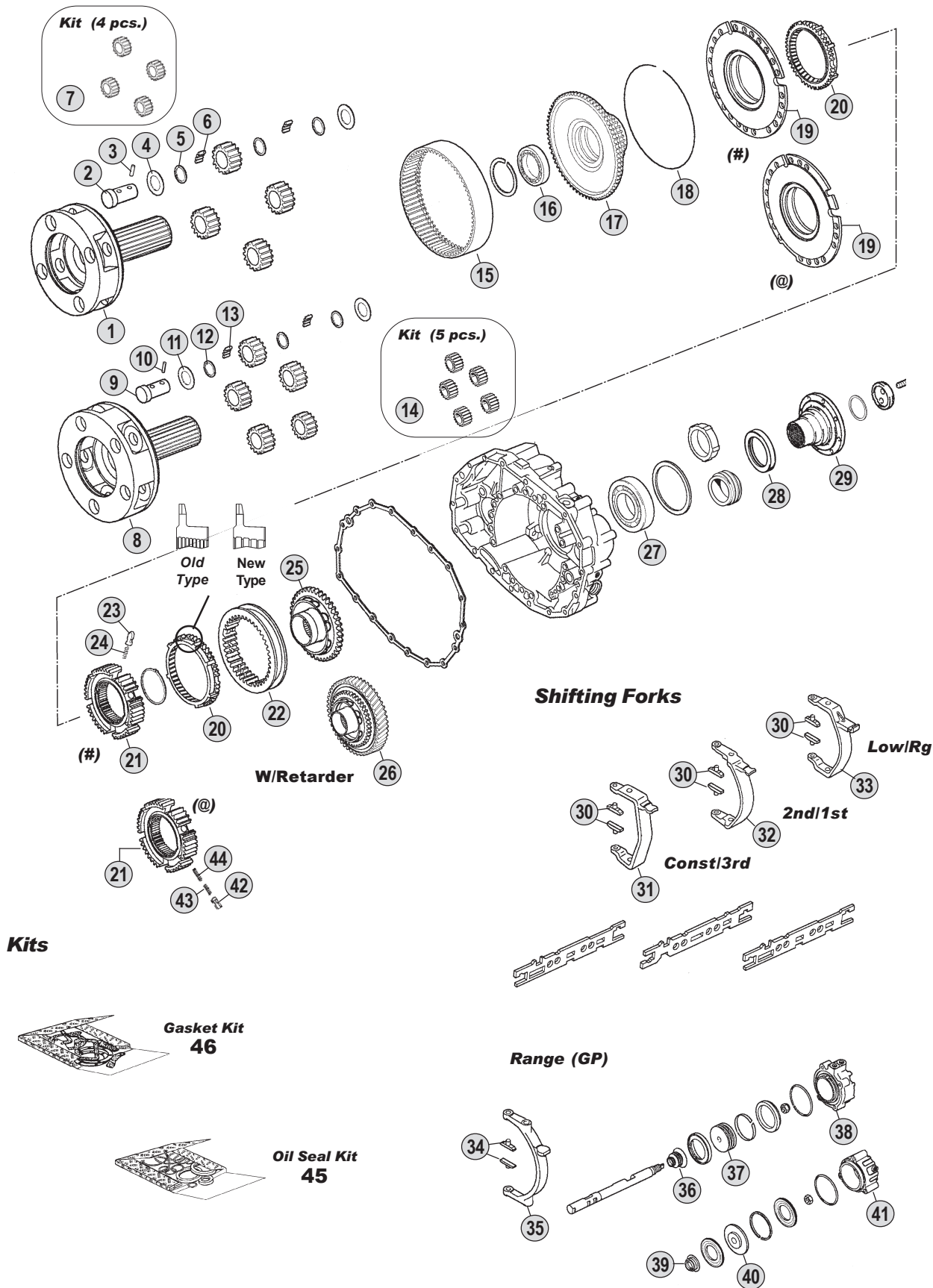
Table

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





Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
		ZF no.	R.V.I. no.					9S109				
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	00 01 126 133	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	00 01 126 133	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.150-4H.	(#)	●				
29		1304 338 060		Output Flange	1	D.180-4H.	(#)	●				
29		1304 338 050	50 01 846 987	Output Flange	1	D.180-4H.	(#)	●				
29		1304 338 053		Output Flange	1	D.180-8H.	(#)	●				
29		1304 338 052		Output Flange	1	D.180-10H.	(#)	●				
29		1304 338 067	50 00 293 512	Output Flange	1	D.204-4H.	(#)	●				
29		1304 338 056	50 01 838 929	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

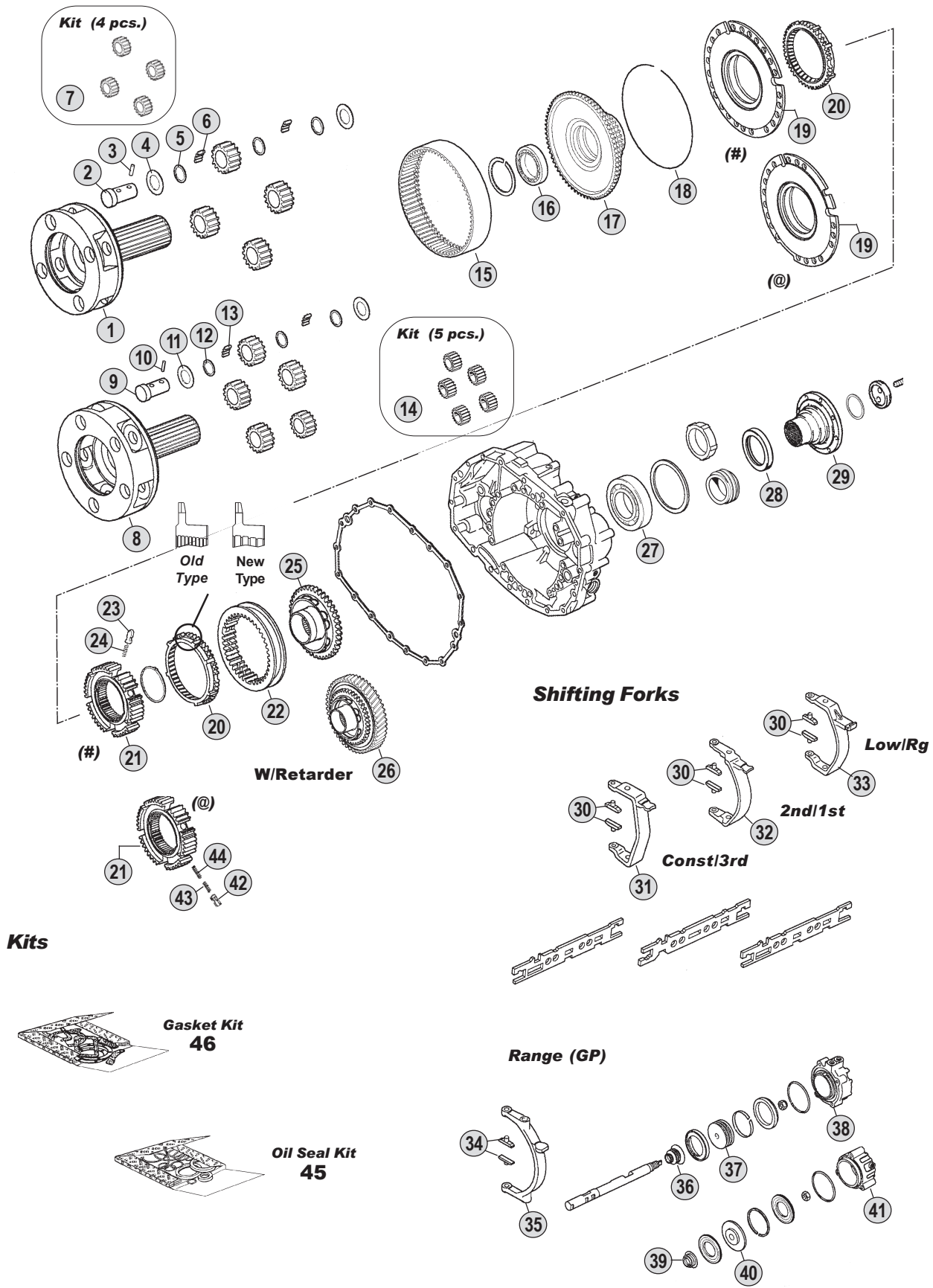
07 / 2006

## Table

0150 / 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	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	<b>141.194</b>	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	<b>141.061</b>	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	<b>160.116</b>	1240 304 278	50 00 255 276	Pressure Piece	9		(@)	●				
43	<b>156.037</b>	0732 040 385	77 01 007 805	Outer Spring De.6x34	9		(@)	●				
44	<b>156.036</b>	0732 040 386	50 00 255 277	Inner Spring De.3x34	9		(@)	●				
45	<b>298.026</b>	1304 298 908	50 00 293 704	Oil Seal Kit	1			●				
46	<b>198.945</b>	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)
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

**ECOMID**  
16S109

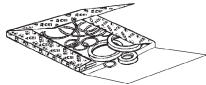
### Ratios

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

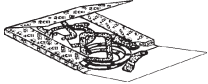
Suitable To : **ZF**

**16S109**

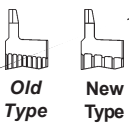
**Kits**



**Oil Seal Kit  
48**

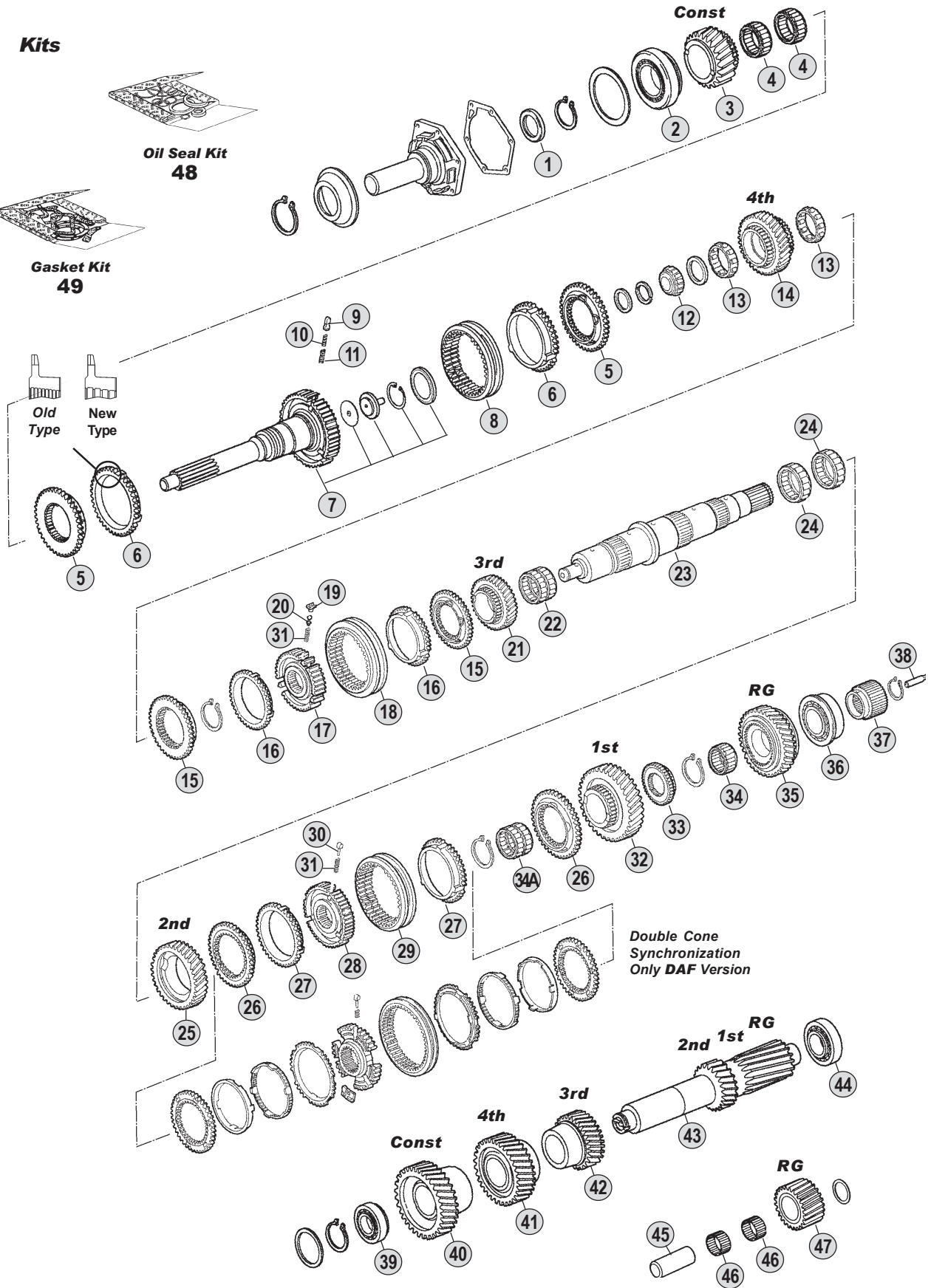


**Gasket Kit  
49**



**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.	O.E.M. Reference		Description	Q.ty	Note	Ratio					
	CEI no.	ZF no.					R.V.I. 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	<b>145.478</b>	1304 302 169		Constant Gear 26 T	1		ABCD	●			
3	<b>145.516</b>	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	<b>109.169</b>	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	<b>119.173</b>	1304 304 680	50 01 850 279	Synchronizer Ring	2	New Type	●				
7	<b>190.311</b>	1304 202 201		Input Shaft	1		●				
7	<b>190.312</b>	1304 202 202	50 01 838 989	Input Shaft	1		●				
7	<b>190.298</b>	1304 202 203		Input Shaft	1		●				
8	<b>154.064</b>	1240 304 272	50 00 240 205	Sliding Sleeve	1		●				
9	<b>160.116</b>	1240 304 278	50 00 255 276	Pressure Piece	3		●				
10	<b>156.036</b>	0732 040 386	50 00 255 277	Inner Spring De.3x34	3		●				
11	<b>156.037</b>	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	<b>146.397</b>	1304 304 516		Gear 4th Speed 27 T	1		ABCD	●			
14	<b>146.439</b>	1304 304 518	50 10 242 786	Gear 4th Speed 27 T	1		E	●			
15	<b>109.170</b>	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	<b>119.169</b>	1304 304 683	50 01 850 287	Synchronizer Ring	2	New Type	●				
17	<b>157.186</b>	1304 304 515	50 01 839 013	Synchronizer Hub	1		●				
18	<b>154.199</b>	1304 304 688	50 01 850 288	Sliding Sleeve	1		●				
19	<b>188.096</b>	1238 304 394	50 00 242 859	Pressure Piece	3		●				
20	<b>160.143</b>	1249 304 222	50 00 242 858	Plunger	3		●				
21	<b>145.479</b>	1304 304 475		Gear 3rd Speed 29 T	1		ABCD	●			
21	<b>145.518</b>	1304 304 417	50 10 242 841	Gear 3rd Speed 32 T	1		E	●			
22	137.142	0735 320 816	50 00 819 750	Needle Cage D.75x83x23	1		●				
23	<b>103.129</b>	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	<b>109.171</b>	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	<b>119.170</b>	1304 304 681	50 01 845 850	Synchronizer Ring	2	New Type	●				
28	<b>157.187</b>	1304 304 653	50 01 839 000	Synchronizer Hub	1		●				
29	<b>154.200</b>	1304 304 597	50 00 293 410	Sliding Sleeve	1		●				
30	<b>160.189</b>	1297 304 436	50 00 289 398	Pressure Piece	3		●				
31	<b>156.140</b>	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	<b>109.172</b>	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

Date

07 / 2006

Table

0160 / A

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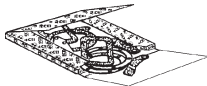
Suitable To : **ZF**

**16S109**

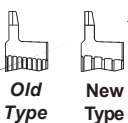
**Kits**



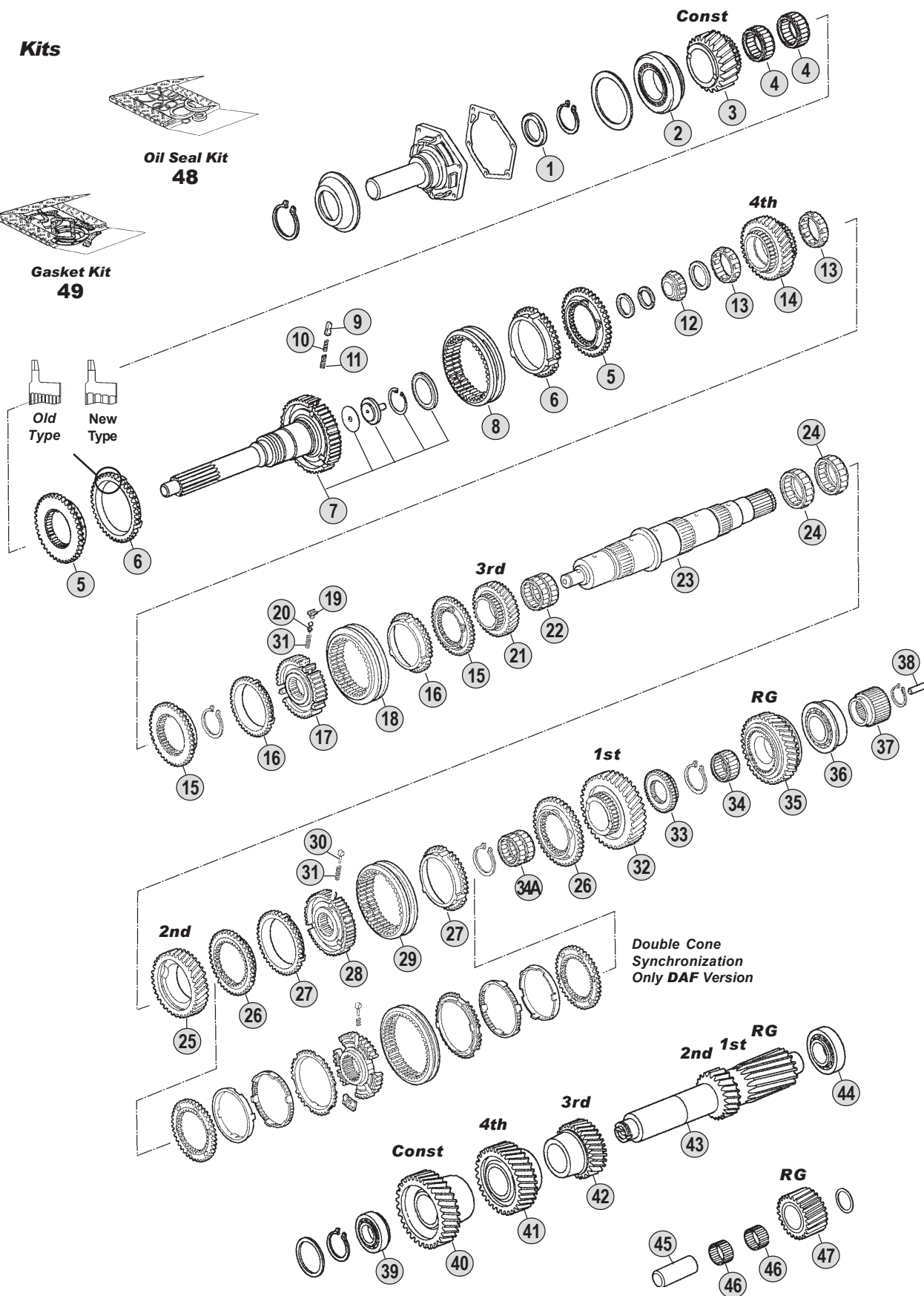
**Oil Seal Kit  
48**



**Gasket Kit  
49**



**Old Type  
New Type**



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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.									
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	<b>146.394</b>	1304 303 273		Constant Gear 33 T	1	ABCD	●				
40	<b>146.434</b>	1304 303 283	50 10 242 866	Constant Gear 31 T	1	E	●				
41	<b>146.395</b>	1304 303 212		Gear 4th Speed 29 T.	1	ABCD	●				
41	<b>146.436</b>	1304 303 175	50 10 242 863	Gear 4th Speed 34 T	1	E	●				
42	<b>146.396</b>	1304 303 214		Gear 3rd Speed 22 T	1	ABCD	●				
42	<b>146.438</b>	1304 303 192	50 10 242 874	Gear 3rd Speed 28 T	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	<b>298.026</b>	1304 298 908	50 00 293 704	Oil Seal Kit	1		●				
49	<b>198.945</b>	1304 298 914	50 01 014 897	Gasket Kit	1		●				

Notes

Date

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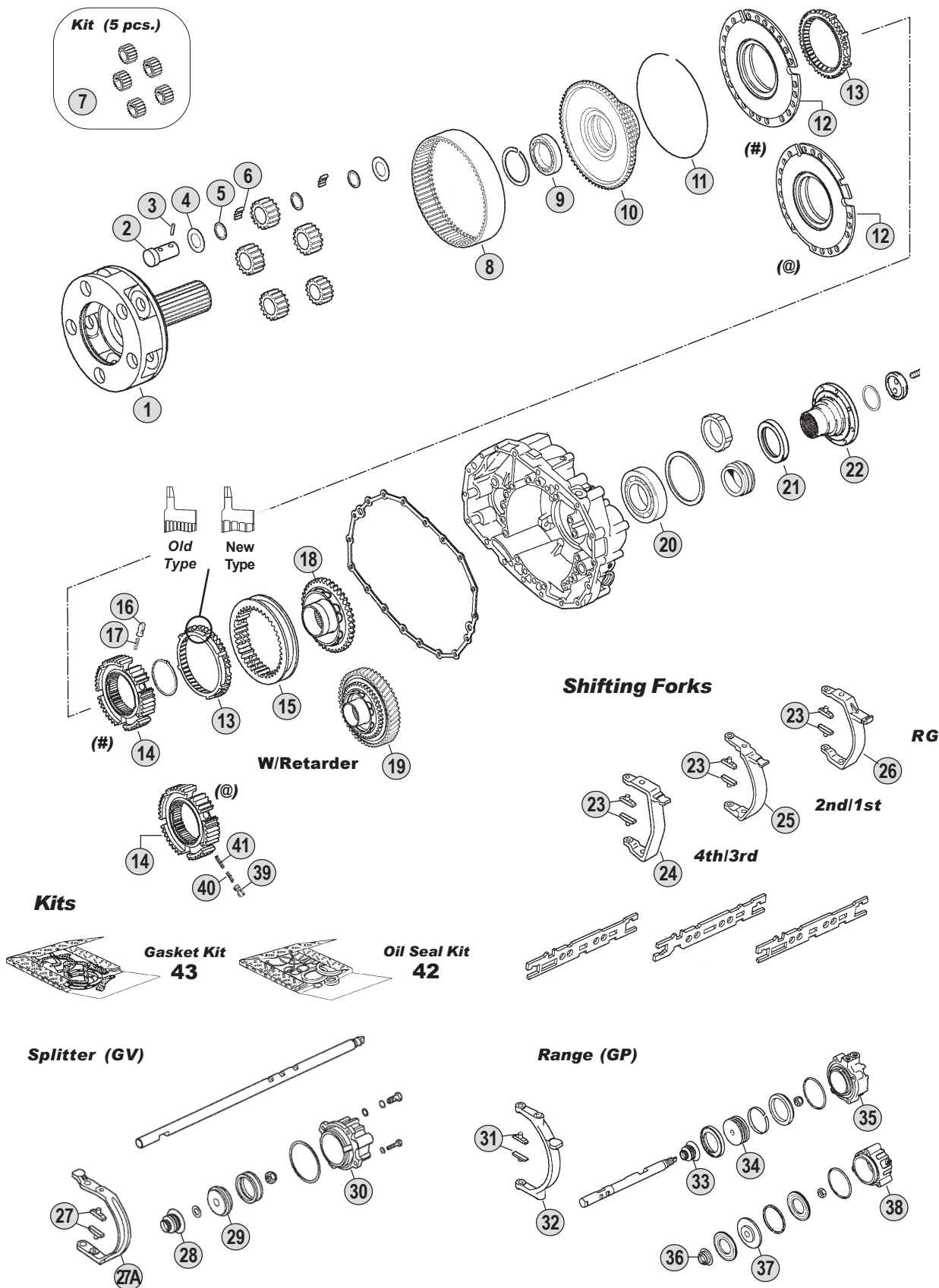
Table

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.	R.V.I. 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	00 01 126 133	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

07 / 2006

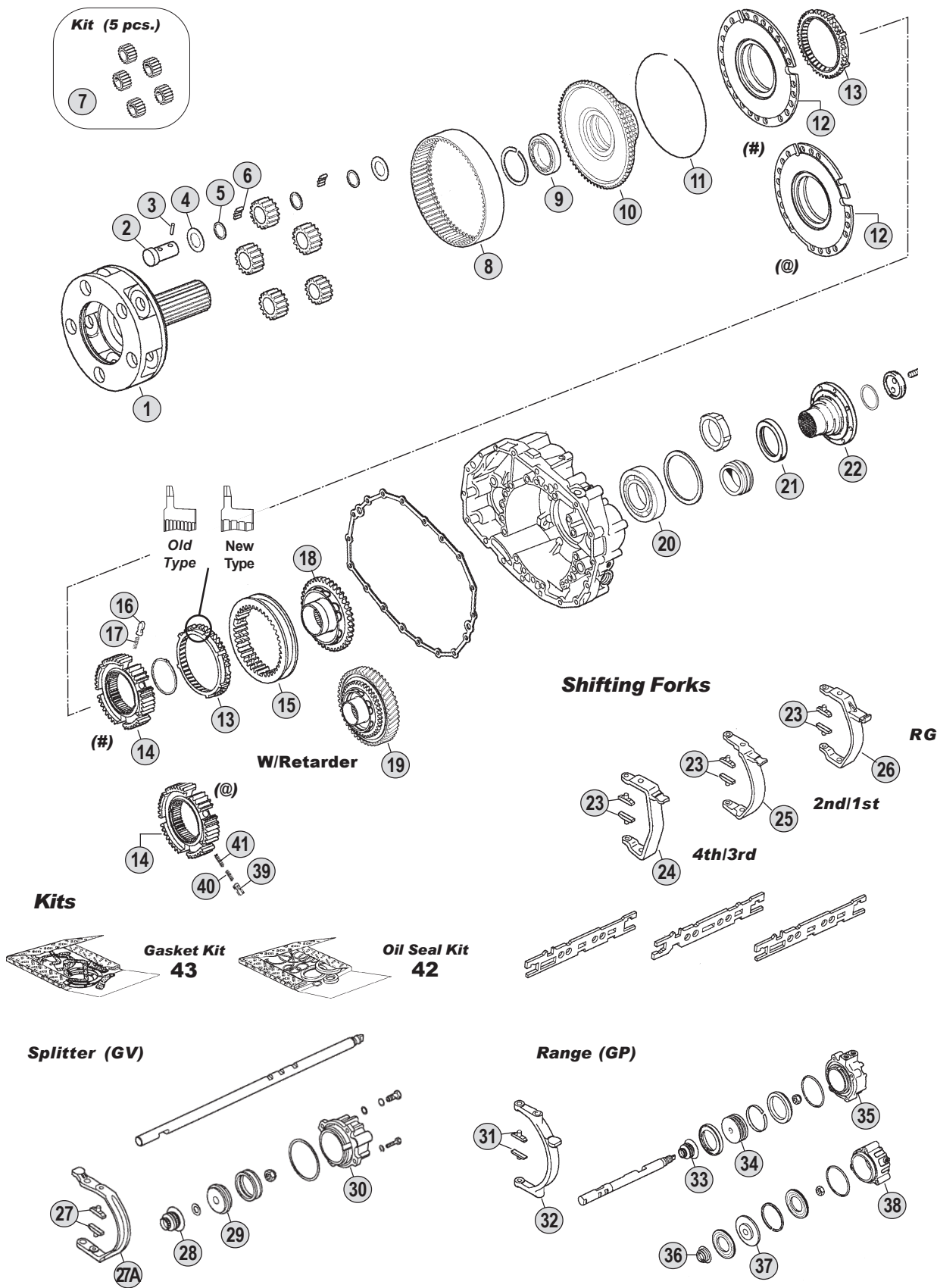
## Table

0160 / B

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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.	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

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Table

0160 / B

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## EcoLite

**Bus Applications**

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**6S-1600**

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## EcoMid

**Bus Applications**

**6S150C**

**8S140**

## EcoMid

**Truck Applications**

**9S75**

**9S109**

**16S109**





suitable to :

# Z.F.

## EcoLite

### 6S-850

### Application

	6S-850 (1290)	5S200 (1322)	6S300 (1323)			
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

### Ratios

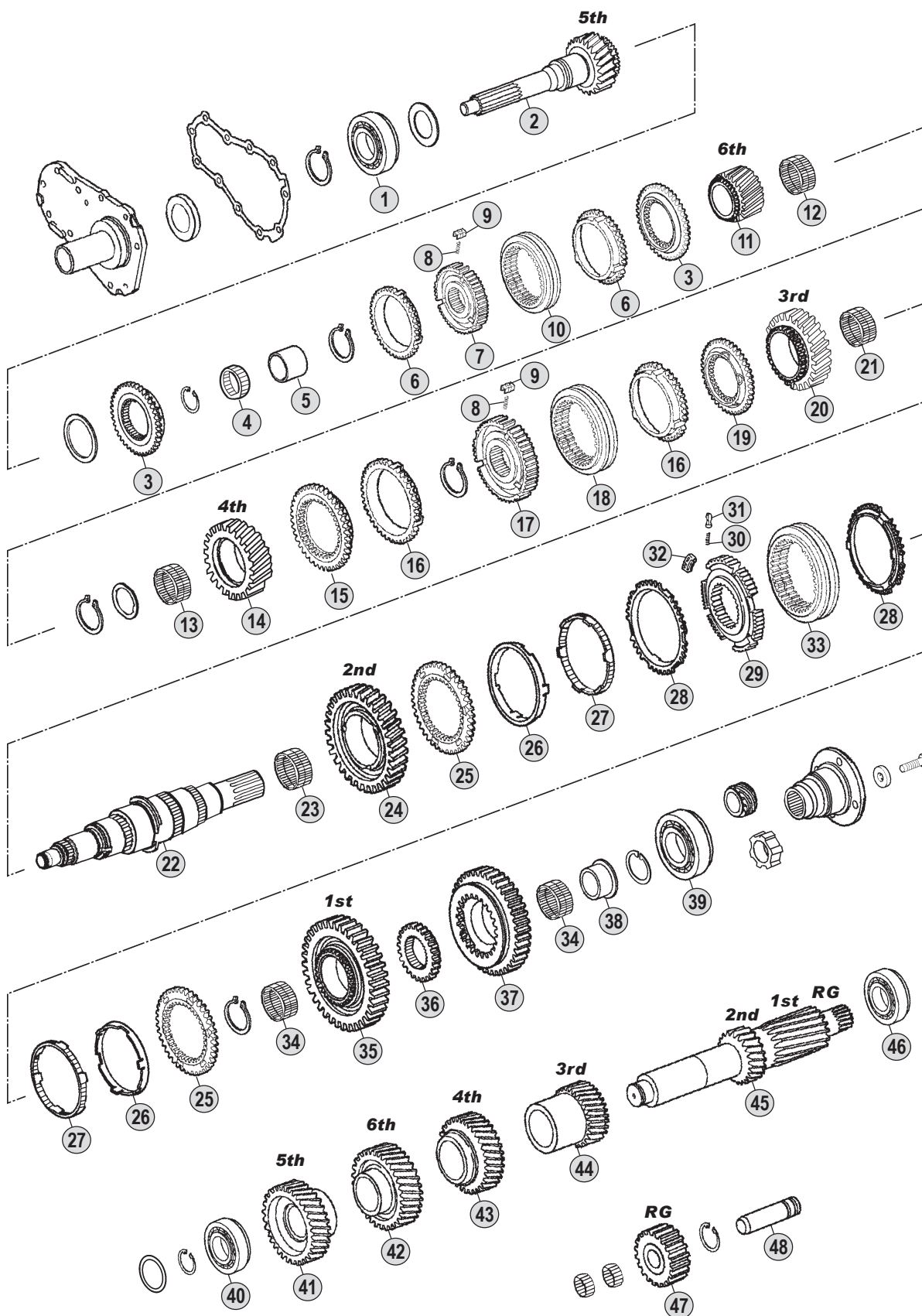
Ratio	Note
<b>6,72-0,79</b>	-

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**ECOLITE**  
6S-850

Suitable To : **ZF**

**6S-850**



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**Ratios**

**6S-850 Ratio: 6,72 - 0,79**

6S-850 (1290)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					DAF no.	6S-850	(1290)					
1	130.787	0735 330 685		Bearing	1		●							
2	102.421	1290 302 474		Input shaft	1	A	●							
2	102.424	1290 302 472		Input shaft	1	A	●							
2	102.418	1290 302 486		Input shaft	1	B	●							
2	102.419	1290 302 478		Input shaft	1	B	●							
2	102.420	1290 302 465		Input shaft	1	B	●							
2	102.421	1290 302 490		Input shaft	1	B	●							
2	102.422	1290 302 482		Input shaft	1	B	●							
2	102.423	1290 302 471		Input shaft	1	B	●							
3	109.738	1290 304 482	1380347	Synchronizer cone	2		●							
4	137.303	0735 358 128	689444	Needle bearing	1		●							
5	117.409	0735 295 119	1317287	Bush	1		●							
6	119.266	1317 304 150	1380348	Synchronizer ring	2		●							
7	155.243	1317 304 026	1380350	Synchronizer hub	1		●							
8	156.195	0732 042 510	1380342	Spring	3	x 2 pcs	●							
9	188.231	1317 304 081	1380341	Pressure Piece	3	x 2 pcs	●							
10	154.415	1317 304 126	1380351	Sliding sleeve	1		●							
11	145.963	1290 304 548		Gear 6th Speed	1	A	●							
11	146.656	1290 304 547		Gear 6th Speed	1	B	●							
12	137.304	0735 321 527		Needle bearing	1		●							
13	137.306	0735 321 528		Needle bearing	1		●							
14	146.657	1290 304 574		Gear 4th Speed	1		●							
15	109.739	1290 304 508	1606485	Synchronizer cone	1		●							
16	119.267	1317 304 114	1427428	Synchronizer ring	2		●							
17	155.244	1317 304 031	1380339	Synchronizer hub	1	Old type	(@)	●						
17	155.247	1290 304 619		Synchronizer hub	1		(#)	●						
18	154.416	1317 304 125	1380340	Sliding sleeve	1		●							
19	109.740	1290 304 509		Synchronizer cone	1		●							
20	146.658	1290 304 581		Gear 3rd Speed	1	AB	●							
21	137.307	0735 321 529		Needle bearing	1		●							
22	103.210	1290 304 571		Main shaft	1	Old type	(@)	●						
22	103.216	1290 304 620		Main shaft	1		(#)	●						
23	137.308	0735 321 530		Needle bearing	1		●							
24	146.665	1290 304 485		Gear 2th Speed	1	A	●							
24	146.659	1290 304 487	1380329	Gear 2nd Speed	1	B	●							
25	109.407	1304 304 623	1296007	Synchronizer Cone	2		●							
26	119.221	1290 304 350	1268584	Internal Ring	2		●							
27	119.268	1290 304 366	1268585	Synchronizer ring	2		●							
28	119.223	1290 304 438	1268586	Outer Ring	2		●							
29	157.713	1304 304 687	1387269	Synchronizer Hub	1		●							
30	156.140	0732 040 409	171349	Spring D.6,5x23,5	3		●							
31	160.189	1297 304 436	68332	Pressure Piece	3		●							
32	156.176	1312 304 159	1300312	Pad	3		●							
33	154.373	6002 305 994	1287575	Sliding Sleeve	1		●							
34	137.305	0735 321 531	689458	Needle cage	2		●							

## Notes

- (A-B) Respect the coupling as the assembling.  
 (@) Old type, respect the coupling as the assembling.  
 (#) New type, respect the coupling as the assembling.

## Date

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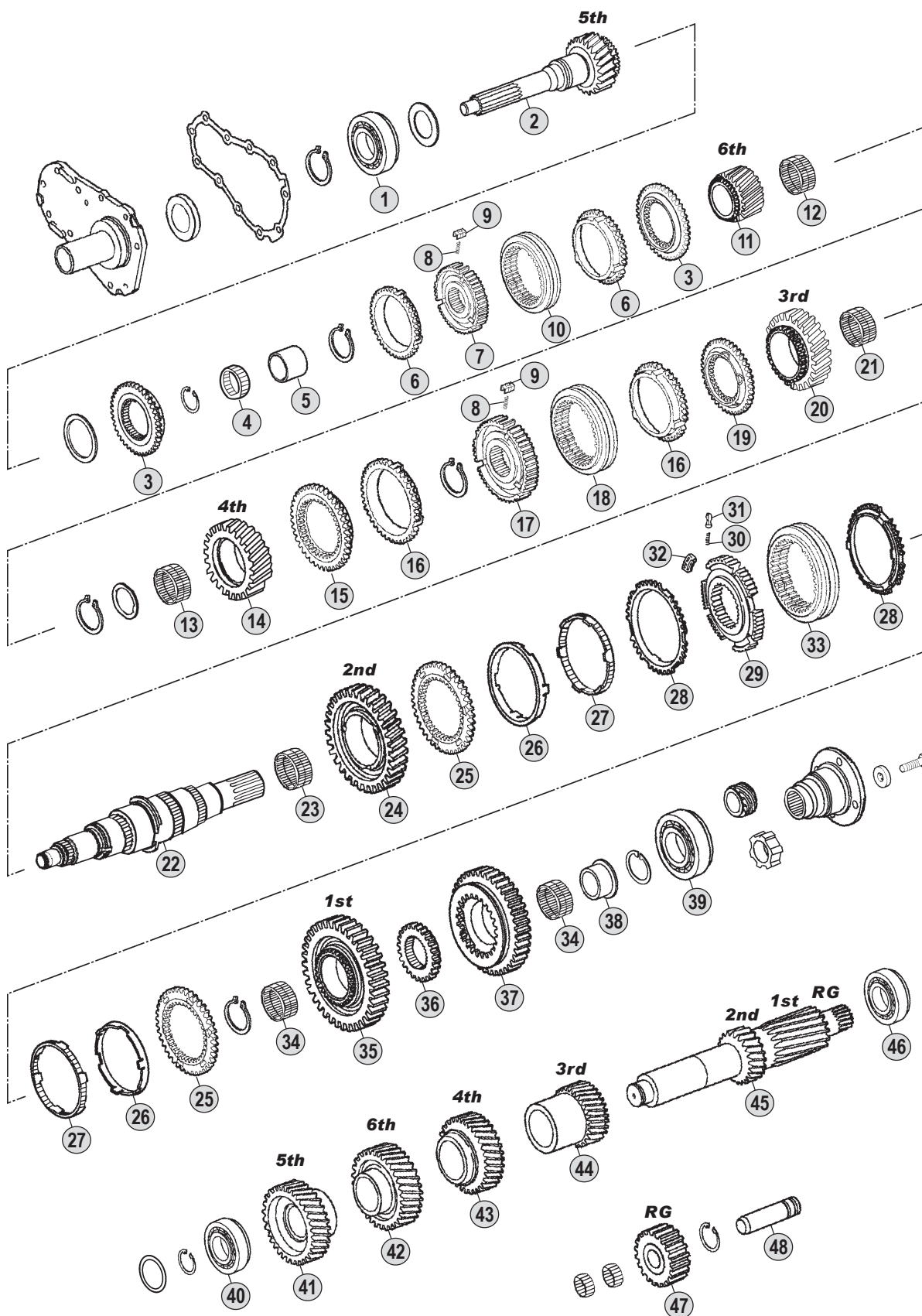
## Table

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Suitable To : **ZF**

**6S-850**



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**Ratios**

**6S-850 Ratio: 6,72 - 0,79**

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	DAF no.										
35	<b>146.660</b>	1290 304 572		Gear 1st Speed	1			●					
36	<b>157.991</b>	1290 304 573		Reverse hub	1			●					
37	<b>147.251</b>	1290 304 058	689462	Reverse Gear 35 T	1			●					
38	117.410	1290 304 056	689463	Bush	1			●					
39	130.788	0750 116 373	1442594	Bearing	1			●					
40	130.789	0735 371 607	1315532	Bearing	1			●					
41	146.667	1290 303 203		Gear 5th Speed	1		A	●					
41	<b>146.661</b>	1290 303 200	1380327	Gear 5th Speed	1		B	●					
42	146.668	1290 303 204		Gear 6th Speed	1		A	●					
42	<b>146.662</b>	1290 303 199	1380326	Gear 6th Speed 53 T	1		B	●					
43	<b>146.663</b>	1290 303 198	1380325	Gear 4th Speed	1			●					
44	146.666	1290 303 202		Gear 3rd Speed 22 T	1		A	●					
44	<b>146.664</b>	1290 303 197	1380324	Gear 3rd Speed	1		B	●					
45	105.223	1290 203 042		Countershaft	1		A	●					
45	<b>105.222</b>	1290 203 039	1291674	Countershaft	1		B	●					
46	130.790	0735 370 438		Bearing	1			●					
47	147.252	1290 305 034	1380352	Reverse gear	1			●					
48	103.213	1290 305 028	66980	Reverse pin	1			●					

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## Notes

- (A-B) Respect the coupling as the assembling.  
 (@) Old type, respect the coupling as the assembling.  
 (#) New type, respect the coupling as the assembling.

## Date

07 / 2006

## Table

0165



suitable to :

# Z.F.

## EcoLite

### S6-85

### Application

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

### Ratios

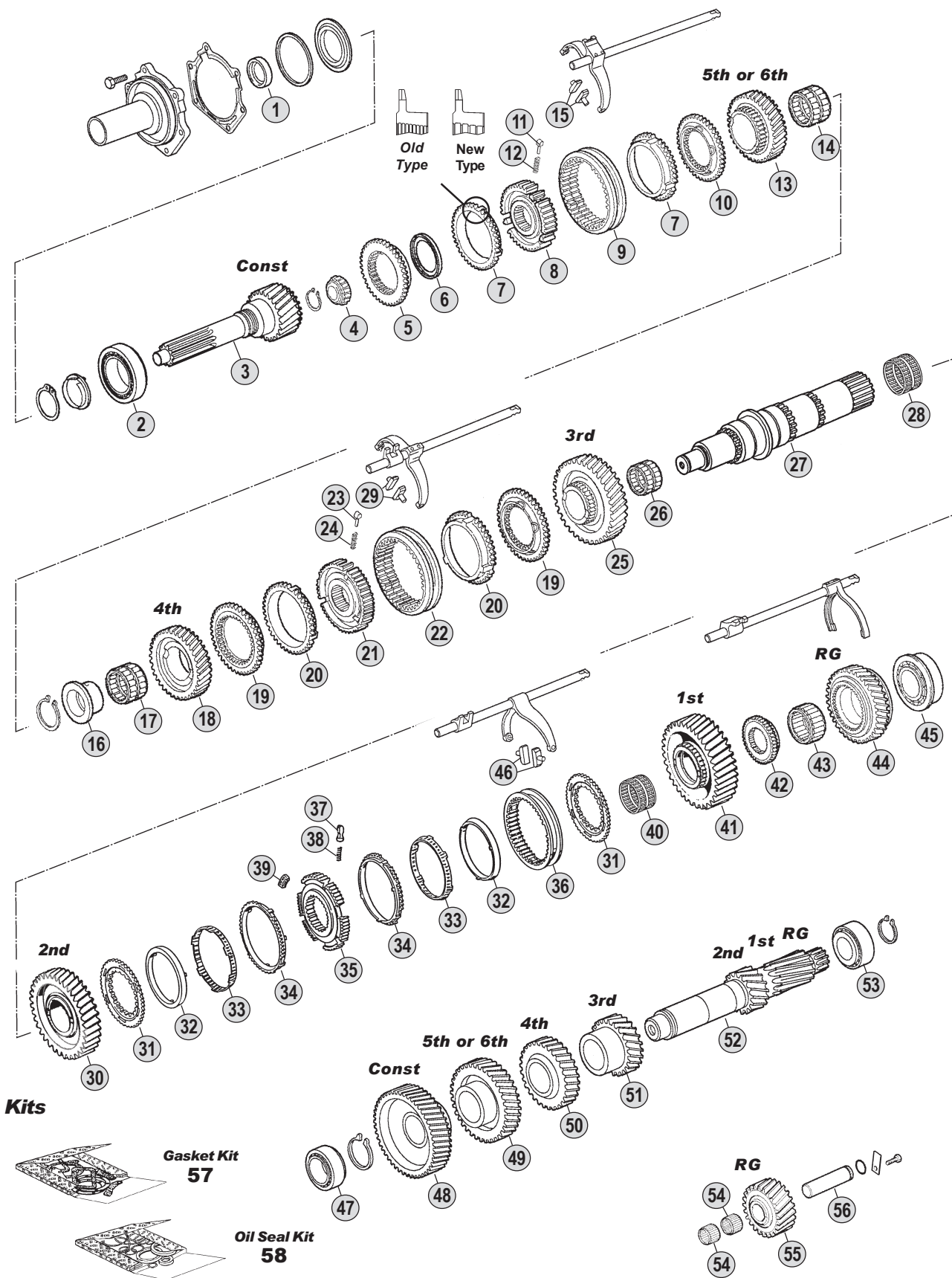
Ratio	Note
<b>6,75-0,83</b>	<b>A</b>
<b>7,72-1,00</b>	<b>B</b>

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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.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	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	<b>102.391</b>	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	<b>109.400</b>	1310 302 023		Synchronizer Cone	1		A	●						
5	<b>109.401</b>	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	<b>119.220</b>	1311 304 255	1386219	Synchronizer Ring	2	New Type	●							
8	<b>157.706</b>	1311 304 226	1313775	Synchronizer Hub	1		●							
9	<b>154.363</b>	1304 304 664	1315541	Sliding Sleeve	1		●							
10	<b>109.402</b>	1311 304 009	1313715	Synchronizer Cone	1		●							
11	<b>160.189</b>	1297 304 436	68332	Pressure Piece	3		●							
12	<b>156.140</b>	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	<b>141.194</b>	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	<b>109.134</b>	1312 304 027	69584	Synchronizer Cone	2		●							
20	<b>119.119</b>	1297 304 402	66373	Synchronizer Ring	2	Old Type	●							
20	<b>119.167</b>	1297 304 484	1342731	Synchronizer Ring	2	New Type	●							
21	<b>157.707</b>	1310 304 080	1313772	Synchronizer Hub	1		●							
22	<b>154.135</b>	1310 304 202	1377181	Sliding Sleeve	1		●							
23	<b>160.189</b>	1297 304 436	68332	Pressure Piece	3		●							
24	<b>156.140</b>	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	<b>141.194</b>	1290 306 066	689470	Bronze Slide	2		●							
30	145.892	1310 304 012	1191363	Gear 2nd Speed 43 T	1		●							
31	<b>109.176</b>	1312 304 106	1227005	Synchronizer Cone	2		●							
32	<b>119.152</b>	1268 304 424	1227006	Intermediate synchro ring	2		●							
33	<b>119.153</b>	1268 304 494	1377179	Intermediate synchro ring	2		●							

Notes

Date

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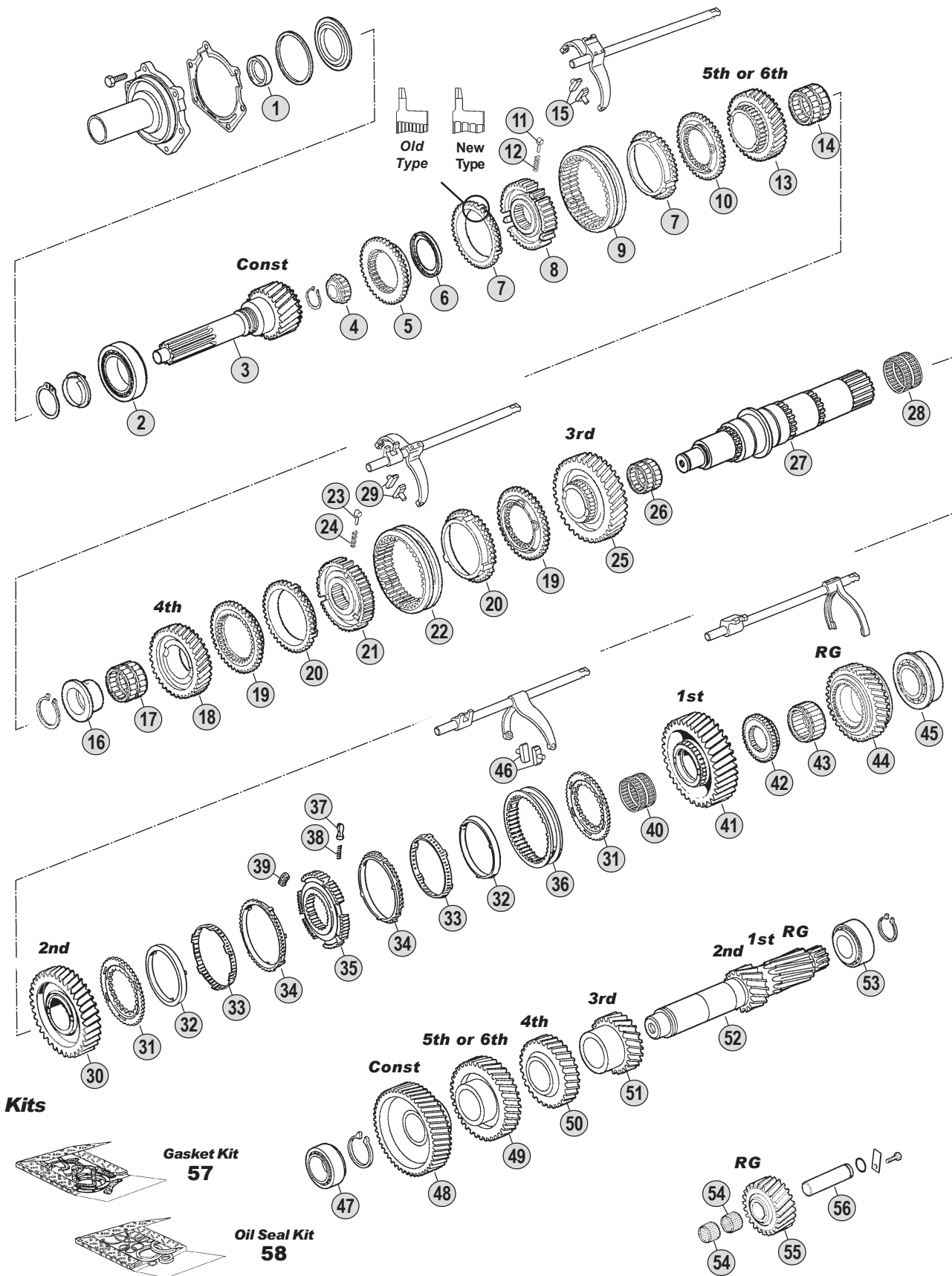
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Suitable To : **ZF**

**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

07 / 2006

Table

0170

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suitable to :

# Z.F.

## EcoLite

### 6S-1600

### Application

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

### Ratios

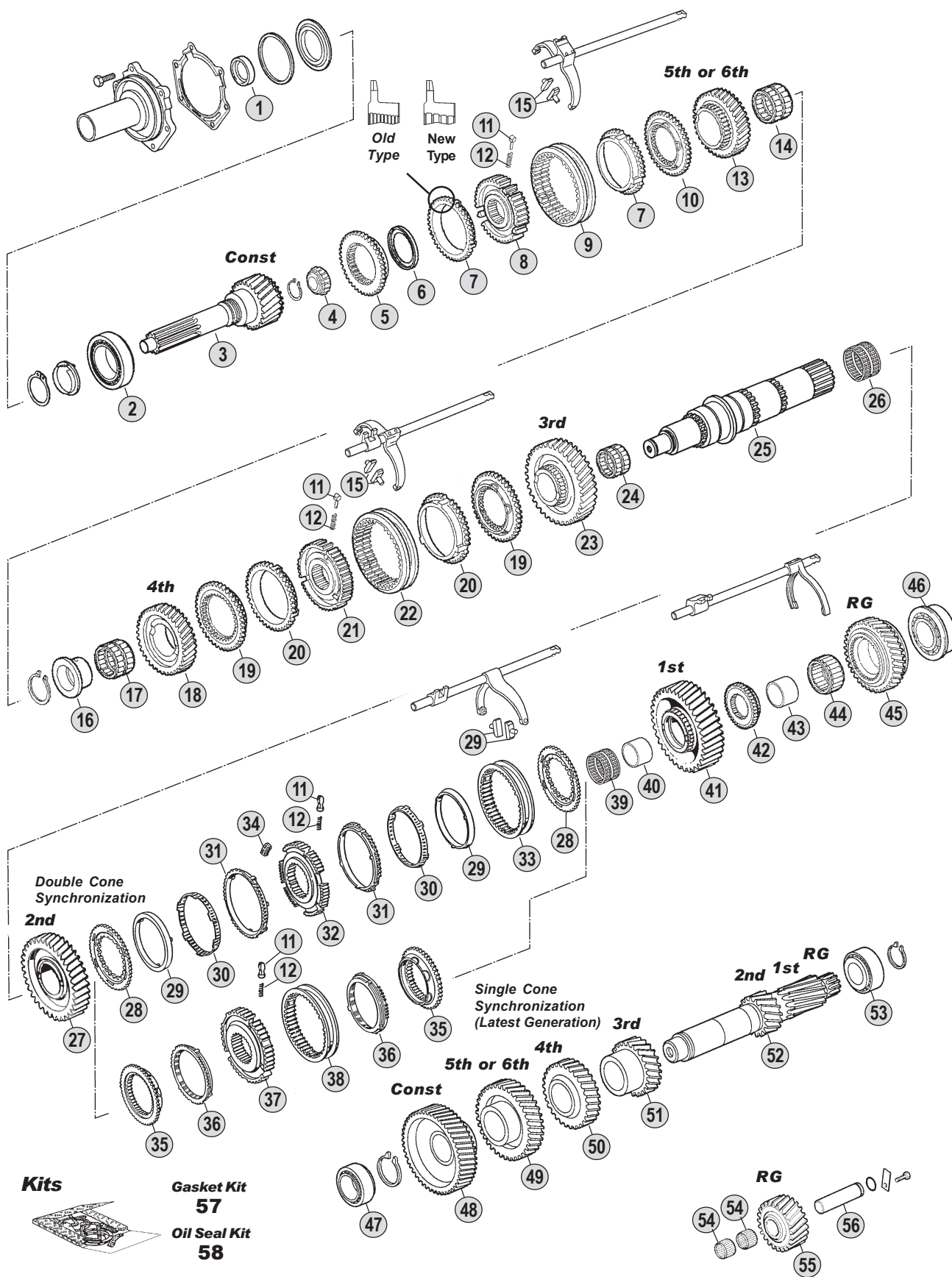
Ratio	Note
<b>6,32-0,81</b>	<b>A</b>
<b>7,72-1,00</b>	<b>B</b>

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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		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	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 321 560		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 synchro ring	2		●								
30	119.153	1268 304 494	1377179	Intermediate synchro ring	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

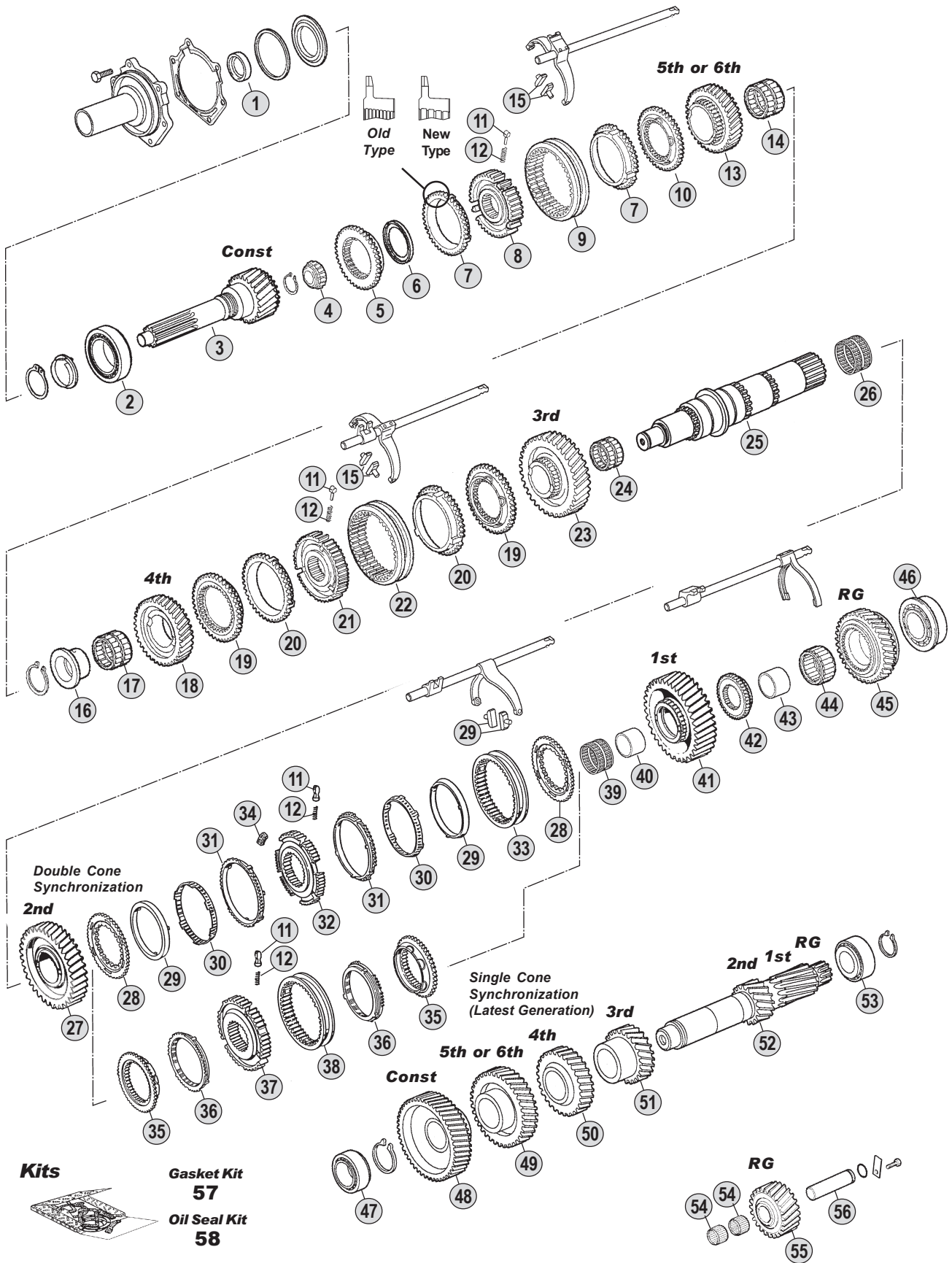
## Table

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)
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

### Ratios

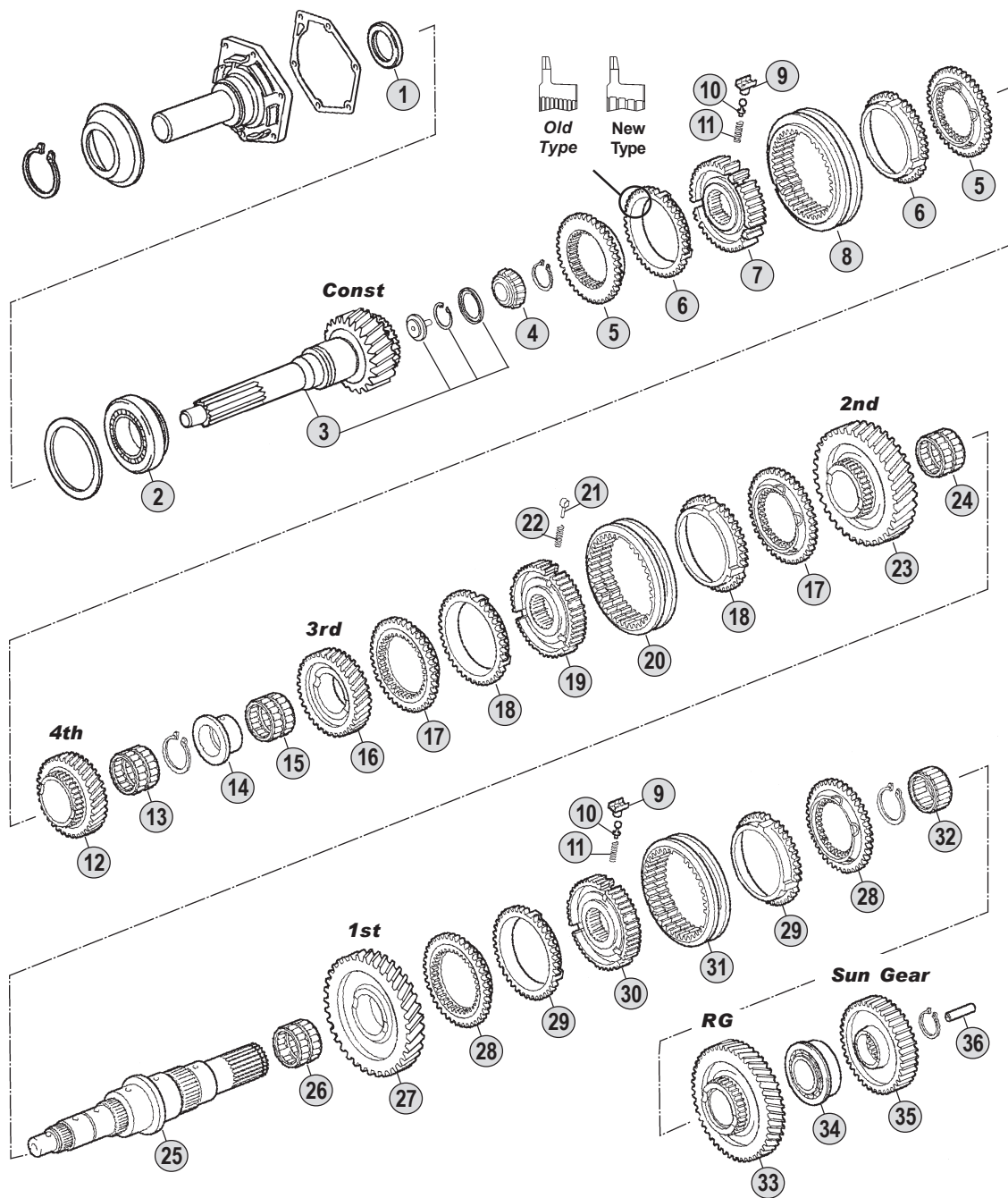
Ratio	Note
<b>7,02-0,81</b>	<b>A</b>
<b>8,07-1,00</b>	<b>B</b>
<b>8,65-1,00</b>	<b>C</b>
<b>8,66-1,00</b>	<b>D</b>

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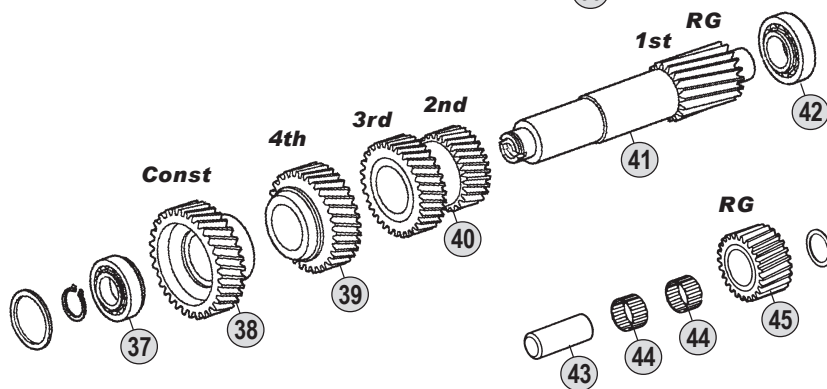
**ECOMID**  
6S150C

Suitable To : **ZF**

**6S150C**



**Kits**



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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.	O.E.M. Reference		Description	Q.ty	Note	Ratio								
	CEI no.	ZF no.					DAF no.	6S150C	(13004)					
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	102.429	1304 202 186		Input shaft 28 T	1	(1)	A	●						
3	102.430	1304 202 188		Input shaft 28 T	1	(2)	A	●						
3	<b>102.345</b>	1304 202 190		Input Shaft 28 T	1	(2)	A	●						
3	102.344	1304 202 193	1364594	Input Shaft	1	(2)	B	●						
3	102.431	1304 202 182		Input shaft 25 T	1	(1)	CD	●						
3	102.432	1304 202 247		Input shaft 25 T	1	(1)	CD	●						
3	102.433	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	<b>109.391</b>	1304 304 660	1317295	Synchronizer Cone	2		●							
6	119.150	1304 304 014	699659	Synchronizer Ring	2	Old Type	●							
6	<b>119.169</b>	1304 304 683	1363793	Synchronizer Ring	2	New Type	●							
7	<b>157.697</b>	1304 304 051	699660	Synchronizer Hub	1		●							
8	<b>154.361</b>	6002 305 515	68516	Sliding Sleeve	1		●							
9	<b>188.096</b>	1238 304 394	171350	Pressure Piece	3		●							
10	<b>160.143</b>	1249 304 222	171351	Plunger	3		●							
11	<b>156.140</b>	0732 040 409	171349	Spring D.6,5x23,5	3		●							
12	<b>145.821</b>	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	<b>145.820</b>	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	<b>109.171</b>	1304 304 408	699642	Synchronizer Cone	2		●							
18	119.151	1304 304 542	67762	Synchronizer Ring	2	Old Type	●							
18	<b>119.170</b>	1304 304 681	1352001	Synchronizer Ring	2	New Type	●							
19	<b>157.696</b>	1304 304 591	68331	Synchronizer Hub	1		●							
20	<b>154.200</b>	1304 304 597	68512	Sliding Sleeve	1		●							
21	<b>160.189</b>	1297 304 436	68332	Pressure Piece	3		●							
22	<b>156.140</b>	0732 040 409	171349	Spring D.6,5x23,5	3		●							
23	<b>147.222</b>	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	<b>103.190</b>	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	<b>119.072</b>	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

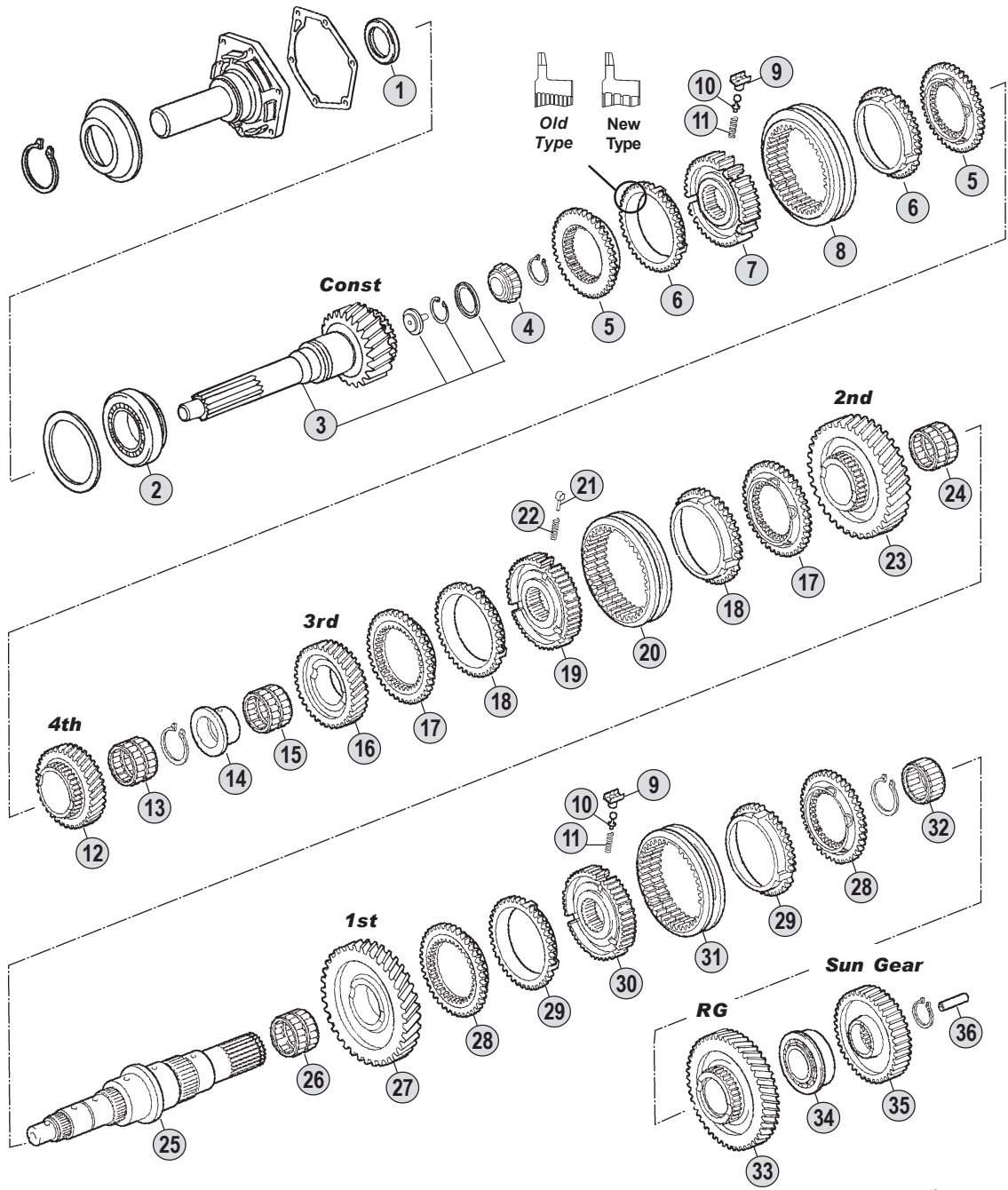
## Table

0190 / A

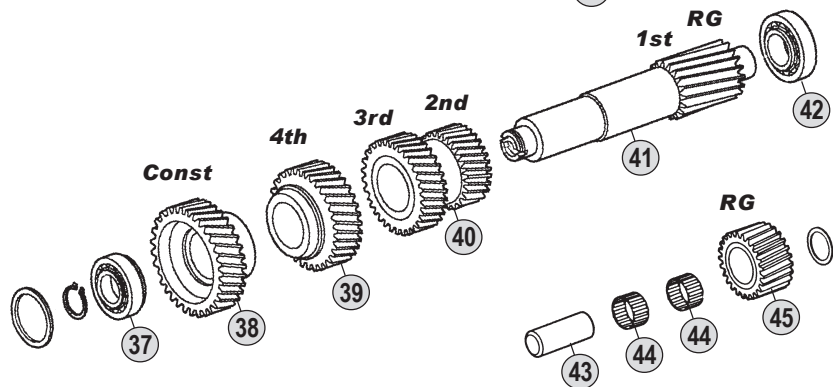
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Suitable To : **ZF**

**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.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	DAF no.								
29	<b>119.138</b>	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	<b>146.582</b>	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	<b>147.223</b>	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	<b>143.117</b>	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	<b>298.026</b>	1304 298 908	1344715	Oil Seal Kit	1		●				
47	<b>198.945</b>	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

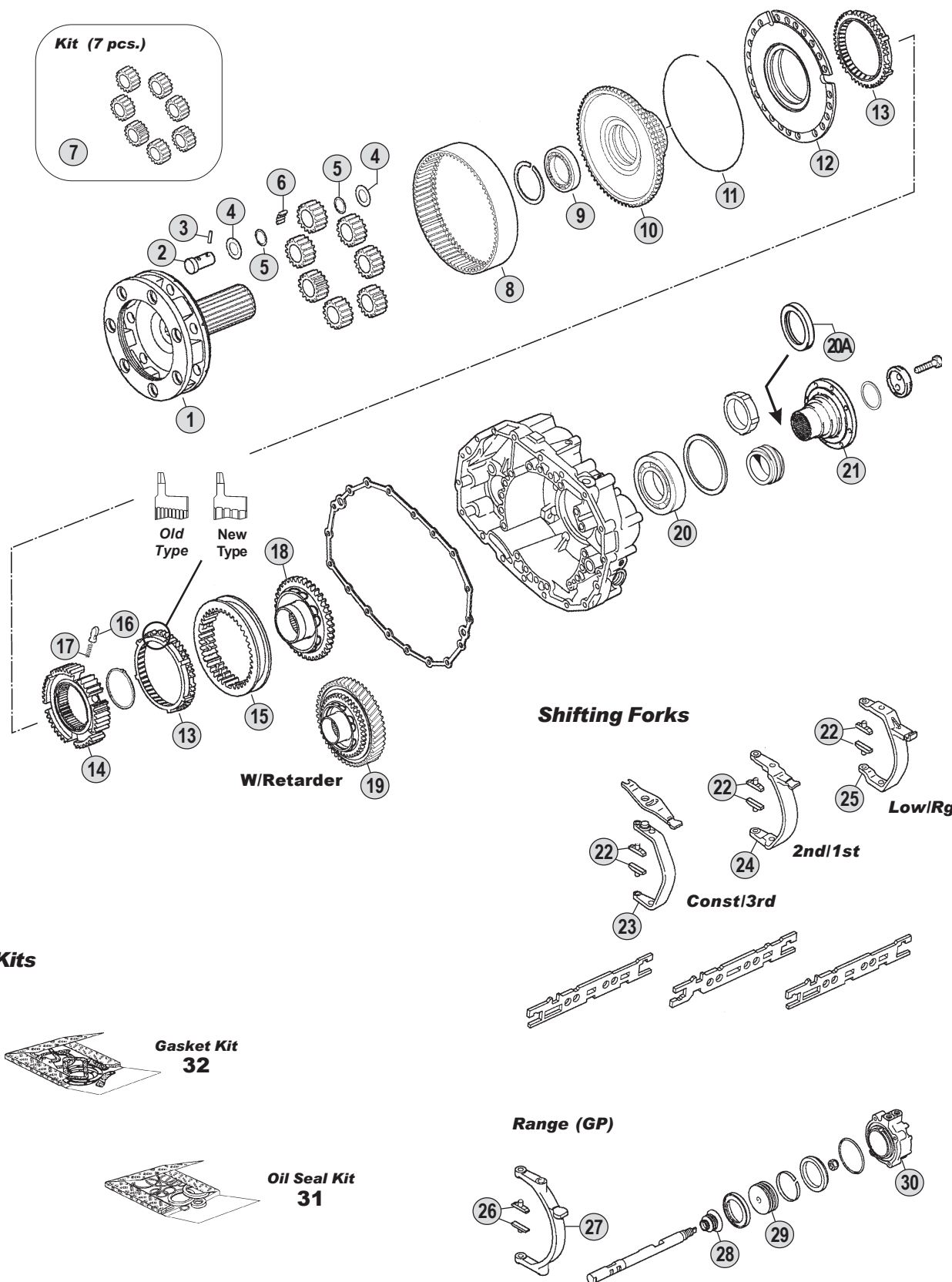
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## Table

0190 / A

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Suitable To : **ZF**



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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.	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

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Table

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suitable to :

# Z.F.

## EcoMid

### 8S140

### Application

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

### Ratios

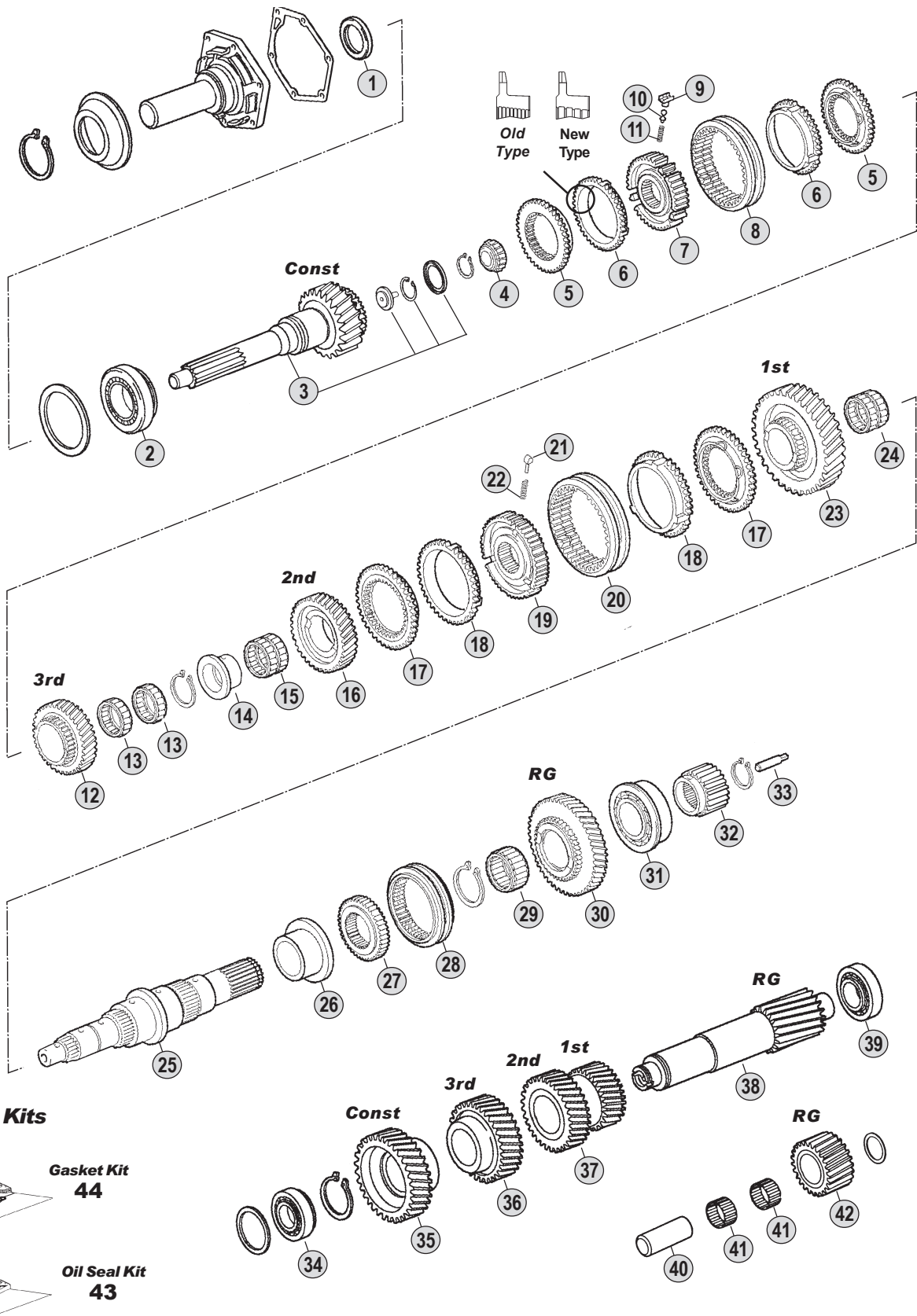
Ratio
<b>8,49-1,00</b>

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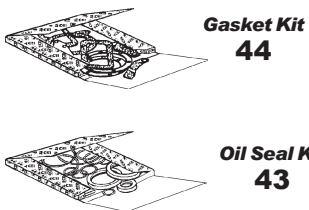
**ECOMID**  
8S140

Suitable To : **ZF**

**8S140**



**Kits**



**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.					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	<b>102.347</b>	1304 202 177	1289000	Input Shaft 26 T	1		●							
4	130.683	0735 371 748	1197999	Needle Bearing D.32x29,5	1		●							
5	<b>109.391</b>	1304 304 660	1317295	Synchronizer Cone	2		●							
6	119.150	1304 304 014	699659	Synchronizer Ring	2	Old Type	●							
6	<b>119.169</b>	1304 304 683	1363793	Synchronizer Ring	2	New Type	●							
7	<b>157.697</b>	1304 304 051	699660	Synchronizer Hub	1		●							
8	<b>154.361</b>	6002 305 515	68516	Sliding Sleeve	1		●							
9	<b>188.096</b>	1238 304 394	171350	Pressure Piece	3		●							
10	<b>160.143</b>	1249 304 222	171351	Plunger	3		●							
11	<b>156.140</b>	0732 040 409	171349	Spring D.6,5x23,5	3		●							
12	<b>145.824</b>	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	<b>145.823</b>	1304 304 499	68513	Gear 2nd Speed 29 T	1		●							
17	<b>109.171</b>	1304 304 408	699642	Synchronizer Cone	2		●							
18	119.151	1304 304 542	67762	Synchronizer Ring	2	Old Type	●							
18	<b>119.170</b>	1304 304 681	1352001	Synchronizer Ring	2	New Type	●							
19	<b>157.696</b>	1304 304 591	68331	Synchronizer Hub	1		●							
20	<b>154.200</b>	1304 304 597	68512	Sliding Sleeve	1		●							
21	<b>160.189</b>	1297 304 436	68332	Pressure Piece	3		●							
22	<b>156.140</b>	0732 040 409	171349	Spring D.6,5x23,5	3		●							
23	<b>147.227</b>	1304 304 498	68511	Gear 1st Speed 33 T	1		●							
24	137.142	0735 320 816	699640	Needle Cage D.75x83x23	1		●							
25	<b>103.190</b>	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	<b>146.584</b>	1304 303 272	68339	Constant Gear 36 T	1		●							
36	<b>147.228</b>	1304 303 244	68506	Gear 3rd Speed 27 T	1		●							
37	<b>143.119</b>	1304 303 243	68505	Double Gear 19/23 T	1		●							
38	<b>105.184</b>	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	<b>298.026</b>	1304 298 908	1344715	Oil Seal Kit	1		●							

Notes

Date

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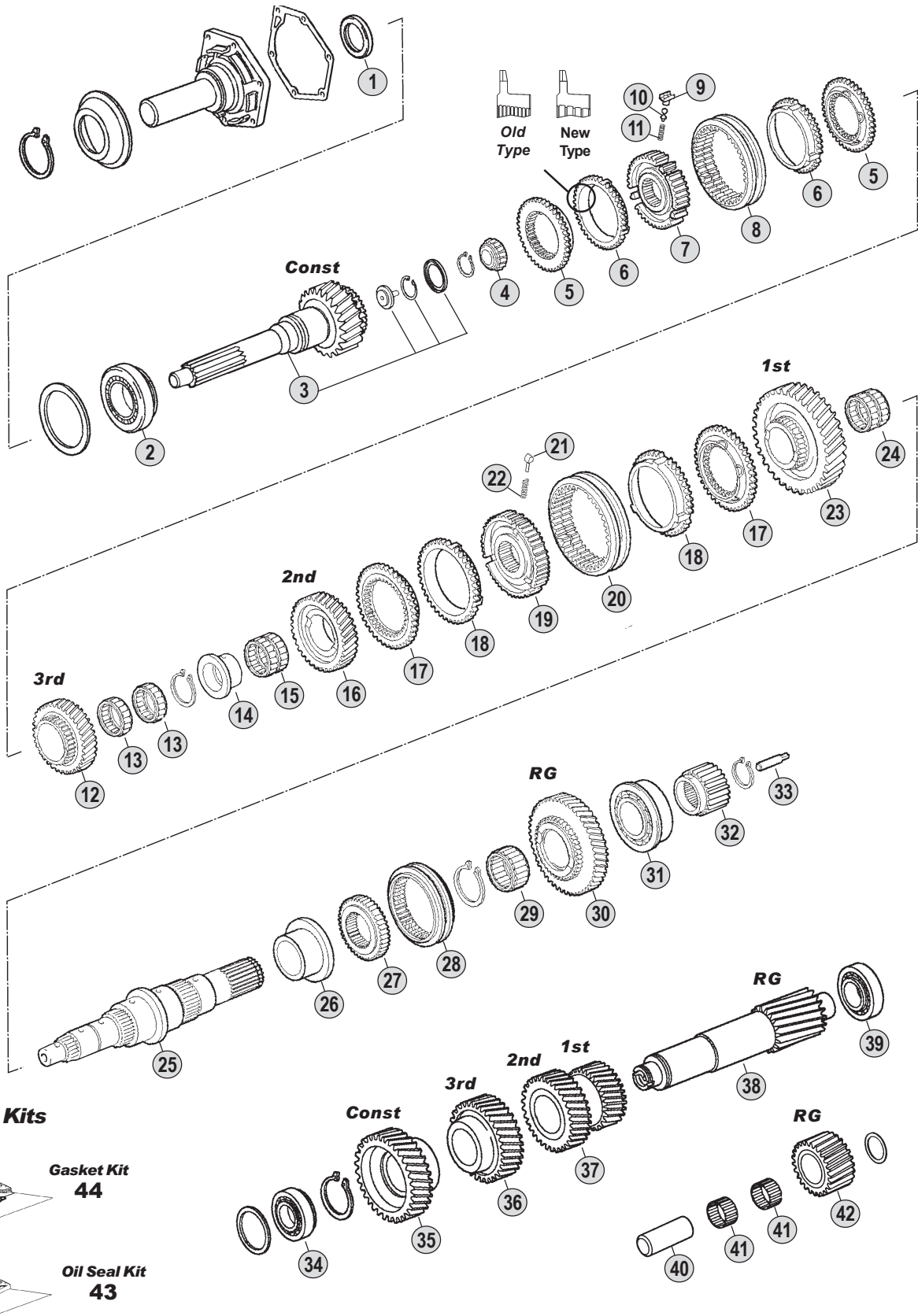
Table

0200 / A

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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.								
44	198.945	1304 298 914	1363925	Gasket Kit	1		●				

ECOMID  
8S140

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Notes

Date



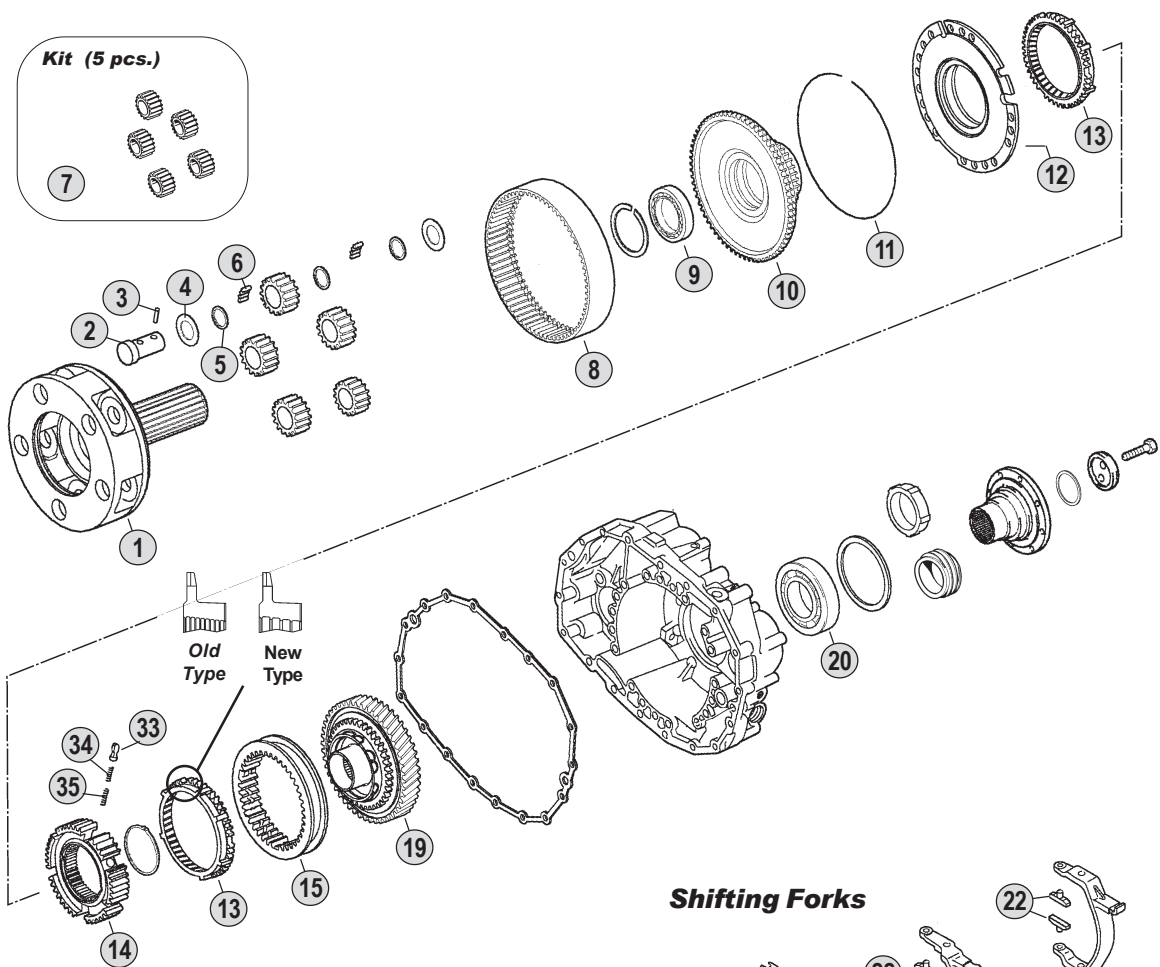
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Table

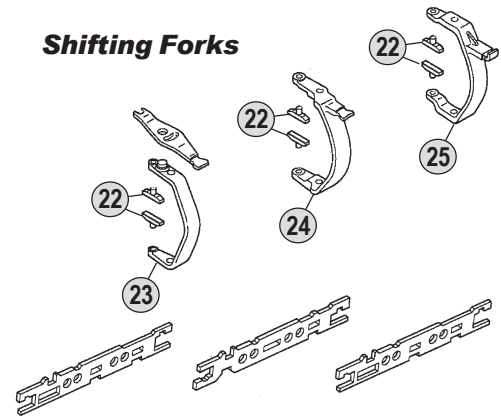
0200 / A

Suitable To : **ZF**

**8S140**



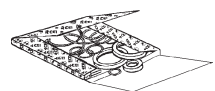
**Shifting Forks**



**Kits**

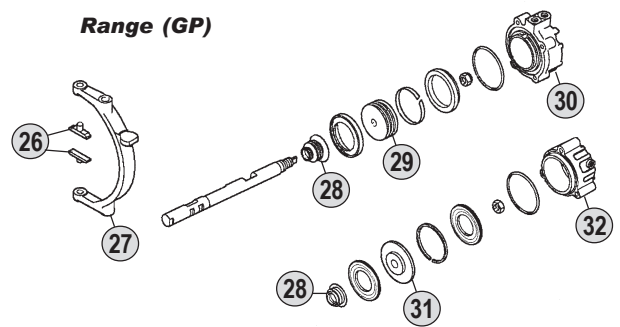


**Gasket Kit  
37**



**Oil Seal Kit  
36**

**Range (GP)**



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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	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

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Table

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suitable to :

# Z.F.

## EcoMid

### 9S75

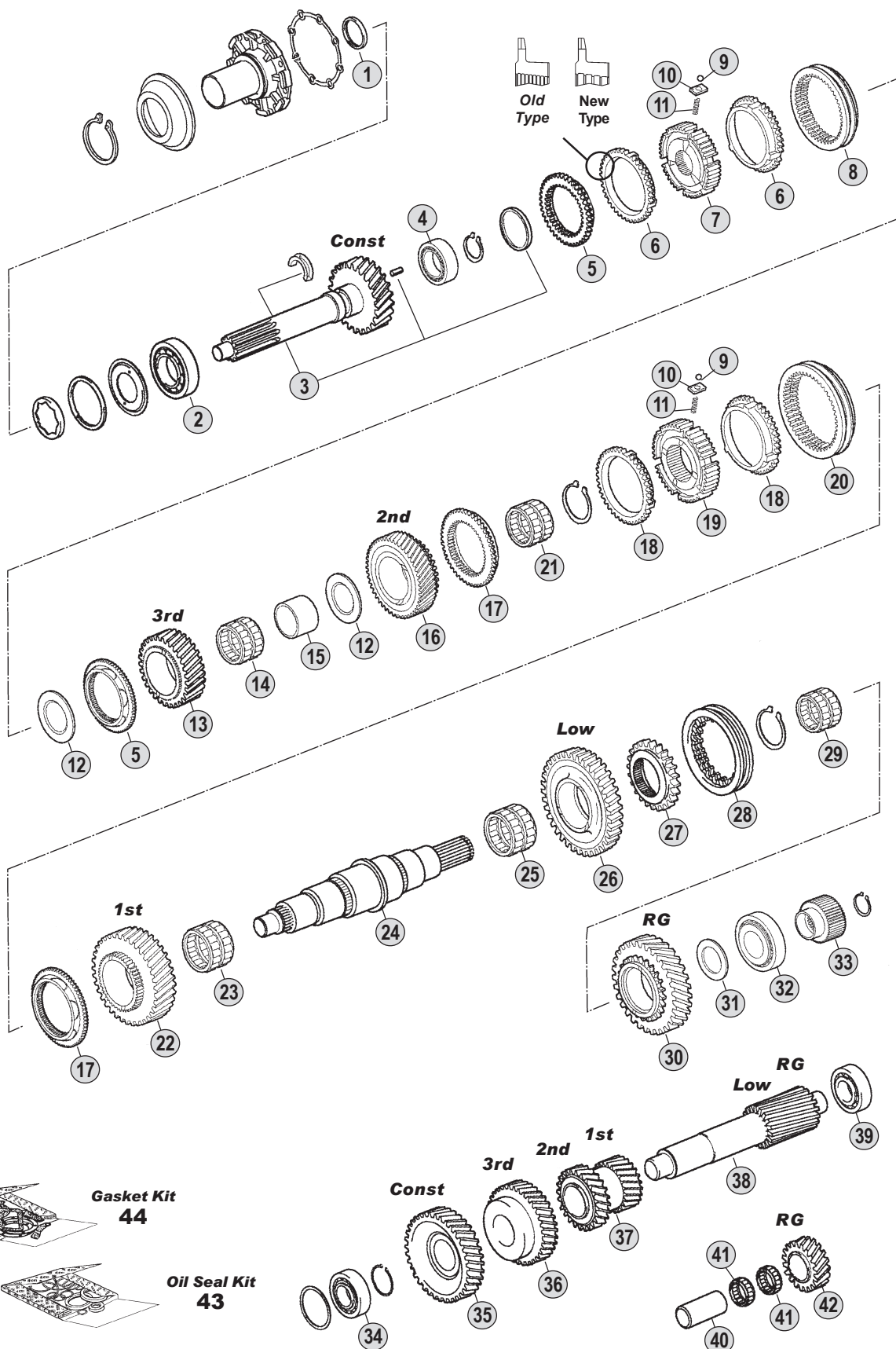
### Application

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

### Ratios

Ratio	Note
<b>13,16-1,00</b>	--

Suitable To : **ZF**



**Kits**



**Ratios**

9S75 Ratio : 13,16 - 1,00

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9S75 (1/308)

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	<b>190.331</b>	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	<b>109.135</b>	1308 304 078	1291269	Synchronizer Cone	2		●							
6	119.174	1308 304 072	1291307	Synchronizer Ring	2	Old type	●							
6	<b>119.117</b>	1308 304 097	1398832	Synchronizer Ring	2	New Type	●							
7	<b>157.219</b>	1307 304 607	1346869	Synchronizer Hub	1		●							
8	<b>154.170</b>	1308 304 090	1296924	Sliding Sleeve	1		●							
9	<b>171.014</b>	0635 460 010	221214	Ball D.6	3		●							
10	<b>139.553</b>	1307 304 156	1291300	Slide	3		●							
11	<b>156.178</b>	0732 041 571		Spring	3		●							
12	269.008	0730 108 172	1291303	Washer A=4,15	2		●							
13	<b>145.826</b>	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	<b>145.521</b>	1308 304 054	1291302	Gear 2nd Speed 30 T	1		●							
17	<b>109.137</b>	1308 304 077	1291296	Synchronizer Cone	2		●							
18	119.116	1308 304 070	1291298	Synchronizer Ring	2	Old Type	●							
18	<b>119.141</b>	1308 304 096	1395091	Synchronizer Ring	2	New Type	●							
19	<b>157.220</b>	1307 304 608	1346867	Synchronizer Hub	1		●							
20	<b>154.171</b>	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	<b>103.137</b>	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	<b>157.200</b>	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	<b>146.432</b>	1308 303 023	1291279	Constant Gear 37 T	1		●							
36	<b>146.585</b>	1308 303 027	1291278	Gear 3rd Speed 32 T	1		●							
37	<b>143.124</b>	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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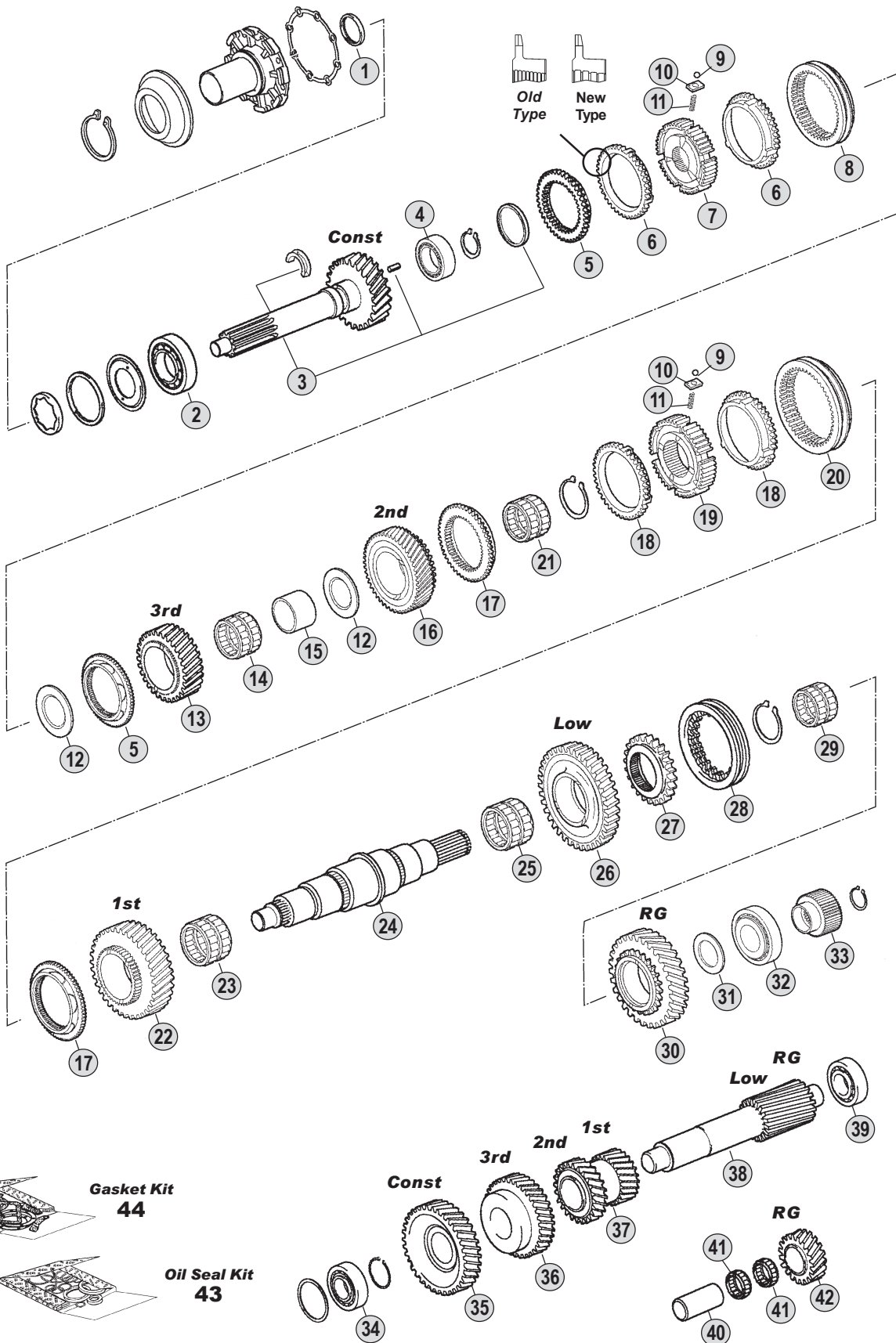
## Table

0210 / A

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Suitable To : **ZF**

**9S75**



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**Ratios**

**9S75** Ratio : 13,16 - 1,00

9S75 (1308)

O.E.M. Reference

Fig.	CEI no.	ZF no.	DAF no.	Description	Q.ty	Note	Ratio					
40	107.156	1304 305 030	699607	Reverse Shaft	1			●				
41	137.143	0735 358 192	699608	Needle Cage D.40x60x26	2			●				
42		1308 305 001		Reverse Gear 20 T	1			●				
43	298.025	1308 298 009	1436850	Oil Seal Kit	1			●				
44	198.944	1308 298 001	1346759	Gasket Kit	1			●				

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**ECOMID**  
9S75

Notes

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

Date

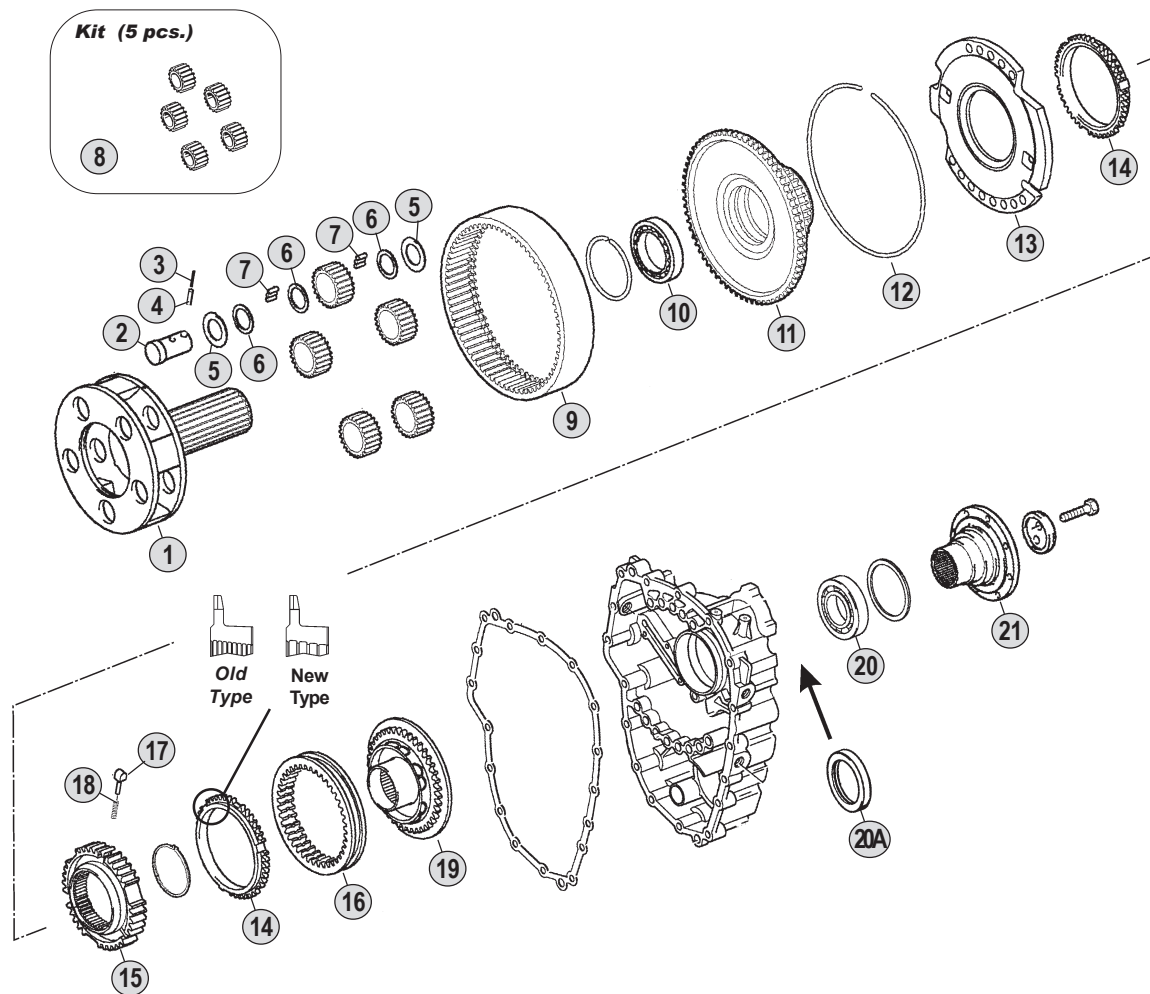
07 / 2006

Table

0210 / A



Suitable To : **ZF**



**Kits**

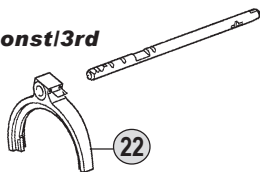


**Gasket Kit  
31**

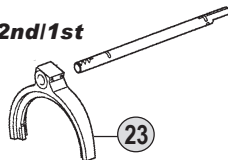


**Oil Seal Kit  
30**

**Const/3rd**

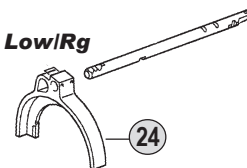


**2nd/1st**

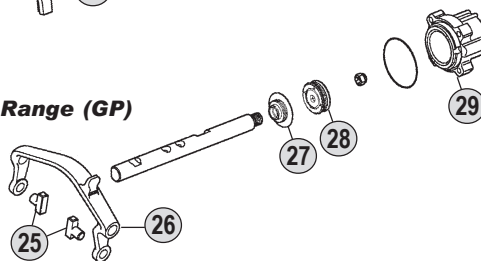


**Shifting Forks**

**Low/Rg**



**Range (GP)**



**Ratios**

9S75 Ratio : 13,16 - 1,00

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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	Planetary 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

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## 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)
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

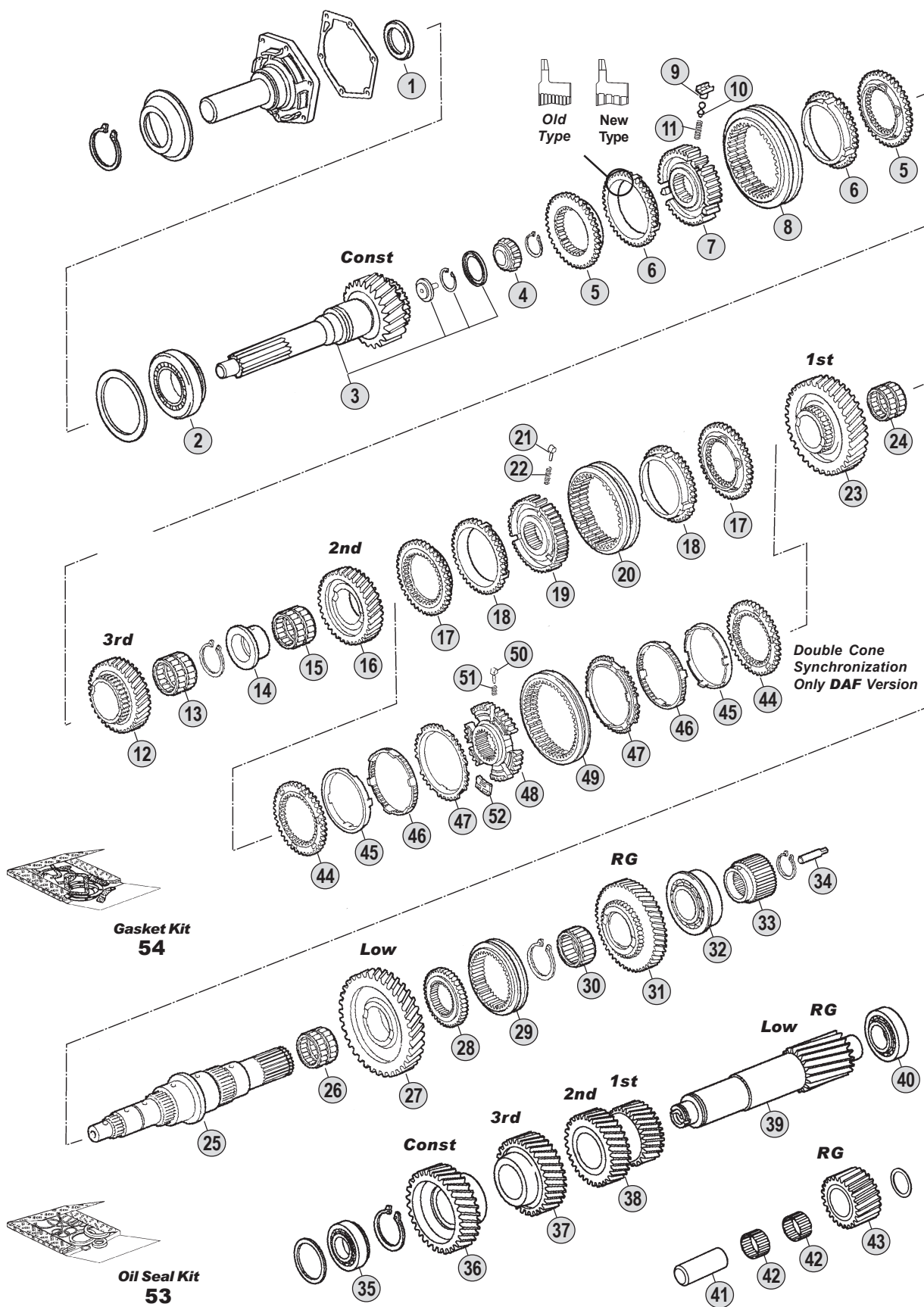
### Ratios

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

**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



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	<b>102.352</b>	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	<b>102.355</b>	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	<b>102.347</b>	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	<b>109.391</b>	1304 304 660	1317295	Synchronizer Cone	2		●						
6	119.150	1304 304 014	699659	Synchronizer Ring	2	Old Type	●						
6	<b>119.169</b>	1304 304 683	1363793	Synchronizer Ring	2	New Type	●						
7	<b>157.697</b>	1304 304 051	699660	Synchronizer Hub	1		●						
8	<b>154.361</b>	6002 305 515	68516	Sliding Sleeve	1		●						
9	<b>188.096</b>	1238 304 394	171350	Pressure Piece	3		●						
10	<b>160.143</b>	1249 304 222	171351	Plunger	3		●						
11	<b>156.140</b>	0732 040 409	171349	Spring D.6,5x23,5	3		●						
12	<b>145.832</b>	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	<b>145.824</b>	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	<b>145.831</b>	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	<b>145.823</b>	1304 304 499	68513	Gear 2nd Speed 29 T	1		D ●						
17	<b>109.171</b>	1304 304 408	699642	Synchronizer Cone	2		●						
18	119.151	1304 304 542	67762	Synchronizer Ring	2	Old Type	●						
18	<b>119.170</b>	1304 304 681	1352001	Synchronizer Ring	2	New Type	●						
19	<b>157.696</b>	1304 304 591	68331	Synchronizer Hub	1		●						
20	<b>154.200</b>	1304 304 597	68512	Sliding Sleeve	1		●						
21	<b>160.189</b>	1297 304 436	68332	Pressure Piece	3		●						
22	<b>156.140</b>	0732 040 409	171349	Spring D.6,5x23,5	3		●						
23	<b>145.830</b>	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	<b>147.227</b>	1304 304 498	68511	Gear 1st Speed 33 T	1		D ●						
24	137.142	0735 320 816	699640	Needle Cage D.75x83x23	1		●						
25	<b>103.190</b>	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

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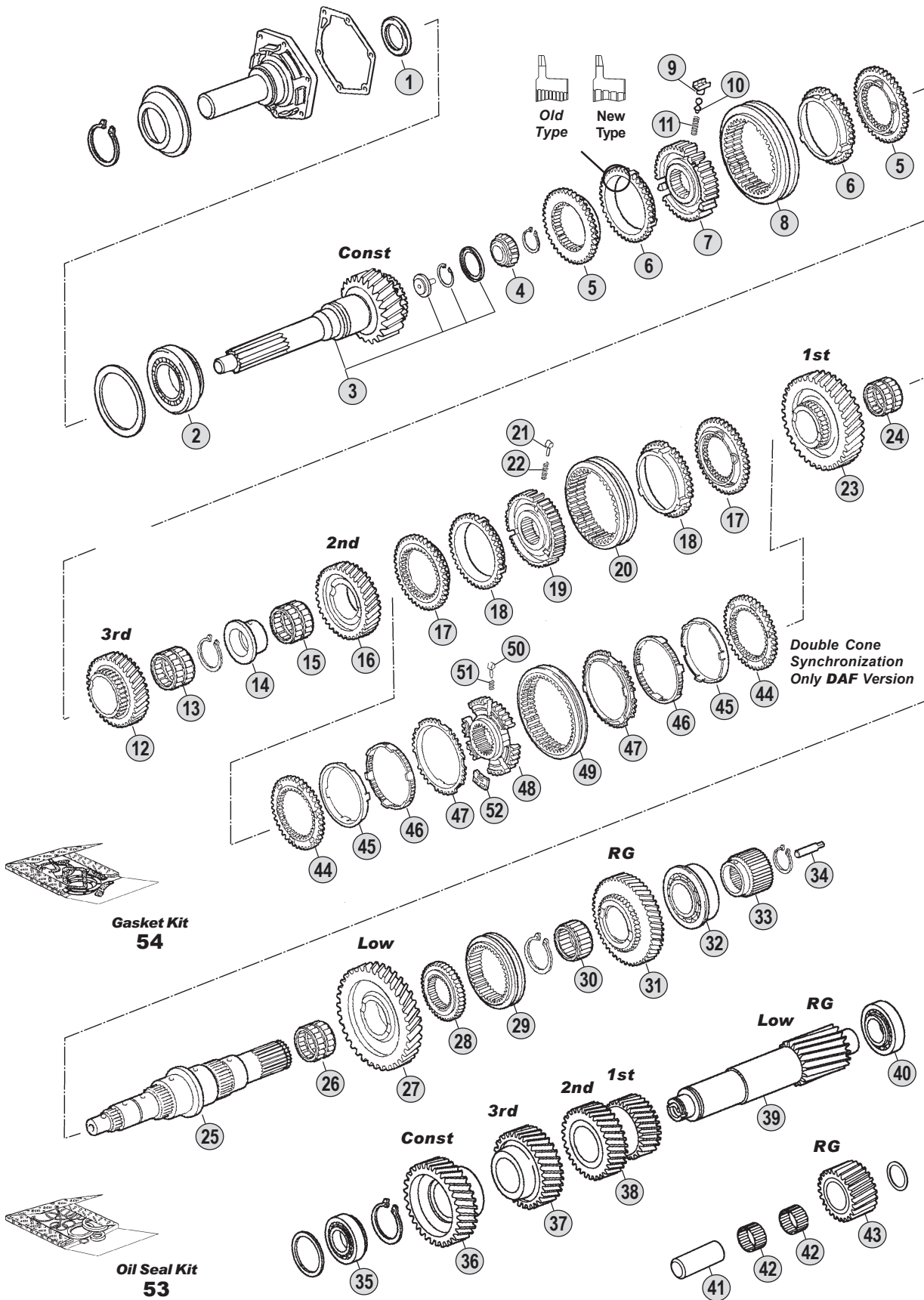
## Table

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

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
		ZF no.	DAF no.										
27	<b>145.829</b>	1304 304 428	1212162	Gear Low Speed 38 T	1		AB	●					
27	145.833	1304 304 543		Gear Low Speed	1		C	●					
27	<b>145.828</b>	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	<b>147.235</b>	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	<b>146.588</b>	1304 303 285	1212161	Constant Gear 33 T	1		AB	●					
36	<b>146.584</b>	1304 303 272	68339	Constant Gear 36 T	1		CD	●					
37	<b>146.587</b>	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	<b>147.228</b>	1304 303 244	68506	Gear 3rd Speed 27 T	1		D	●					
38	<b>143.122</b>	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	<b>143.119</b>	1304 303 243	68505	Double Gear 19/23 T	1		D	●					
39	<b>105.187</b>	1304 303 269	1212173	Countershaft 16 T	1		AB	●					
39	105.188	1304 303 268	1375006	Countershaft 14 T	1		C	●					
39	<b>105.184</b>	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	<b>109.407</b>	1304 304 623	1296007	Synchronizer Cone	2		(*)	●					
45	<b>119.221</b>	1290 304 350	1268584	Internal Ring	2		(*)	●					
46	119.222	6002 306 154	1433230	Intermediate Ring	2		(*)	●					
47	<b>119.223</b>	1290 304 438	1268586	Outer Ring	2		(*)	●					
48	157.712	1304 304 646	1287309	Synchronizer Hub	1		(*)	●					
49	<b>154.373</b>	6002 305 994	1287575	Sliding Sleeve	1		(*)	●					
50	<b>160.189</b>	1297 304 436	68332	Pressure Piece	3		(*)	●					
51	<b>156.140</b>	0732 040 409	171349	Spring D.6,5x23,5	3		(*)	●					
52	<b>156.176</b>	1312 304 159	1300312	Pad	3		(*)	●					
53	<b>298.026</b>	1304 298 908	1344715	Oil Seal Kit	1			●					
54	<b>198.945</b>	1304 298 914	1363925	Gasket Kit	1			●					

## Notes

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

## Date

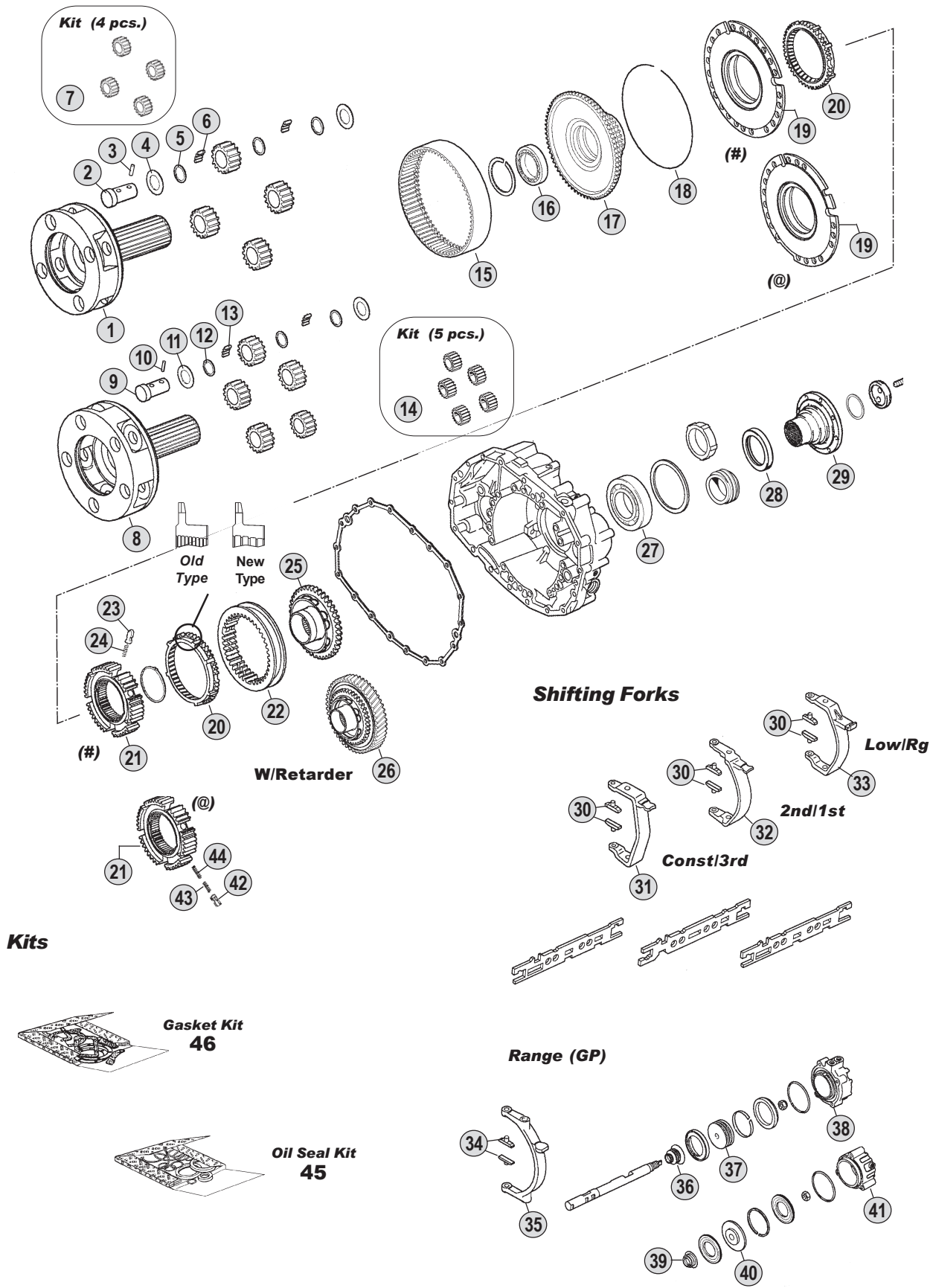
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## Table

0220 / 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						
		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

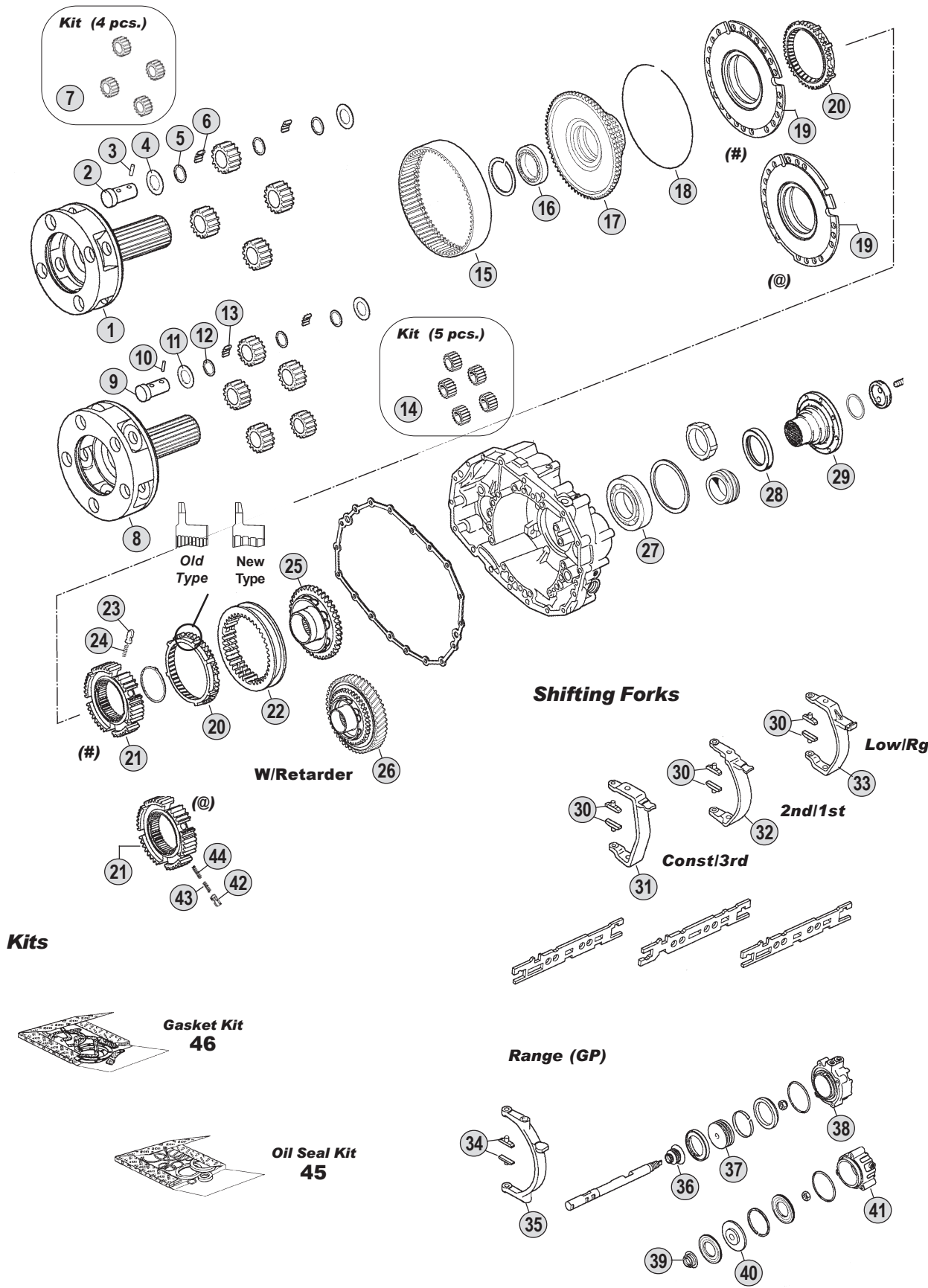
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## Table

0220 / B

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	1142221	Output Flange	1	D.180-4H.	(@)	●				
30	<b>141.194</b>	1290 306 066	689470	Bronze Slide	2			●				
31		1304 306 010	699666	Fork	1			●				
31		1304 306 044	699755	Fork	1			●				
31		1304 306 096	1212167	Fork	1			●				
32		1304 306 043	699754	Fork	1			●				
32		1304 306 009	699668	Fork	1			●				
33		1304 306 077	68518	Fork	1			●				
34	<b>141.061</b>	1272 334 003	140936	Bronze Slide	2			●				
35		1304 334 039	699739	Fork	1		(#)	●				
35		1304 334 063		Fork	1		(@)	●				
36		0750 112 047	699733	Oil seal	1		(#)	●				
37		1304 334 072	1299322	Piston	1		(#)	●				
38		1304 334 061	1246832	Cylinder	1		(#)	●				
39		0750 112 047	699733	Oil seal	1		(@)	●				
40		1315 334 041	1369533	Piston	1		(@)	●				
41		1304 334 079	1369535	Cylinder	1		(@)	●				
42	<b>160.116</b>	1240 304 278	326962	Pressure Piece	9		(@)	●				
43	<b>156.037</b>	0732 040 385	326963	Outer Spring De.6x34	9		(@)	●				
44	<b>156.036</b>	0732 040 386	326964	Inner Spring De.3x34	9		(@)	●				
45	<b>298.026</b>	1304 298 908	1344715	Oil Seal Kit	1			●				
46	<b>198.945</b>	1304 298 914	1363925	Gasket Kit	1			●				

## 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

0220 / B

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suitable to :

# Z.F.

## EcoMid

### 16S109

### Application

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

### Ratios

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

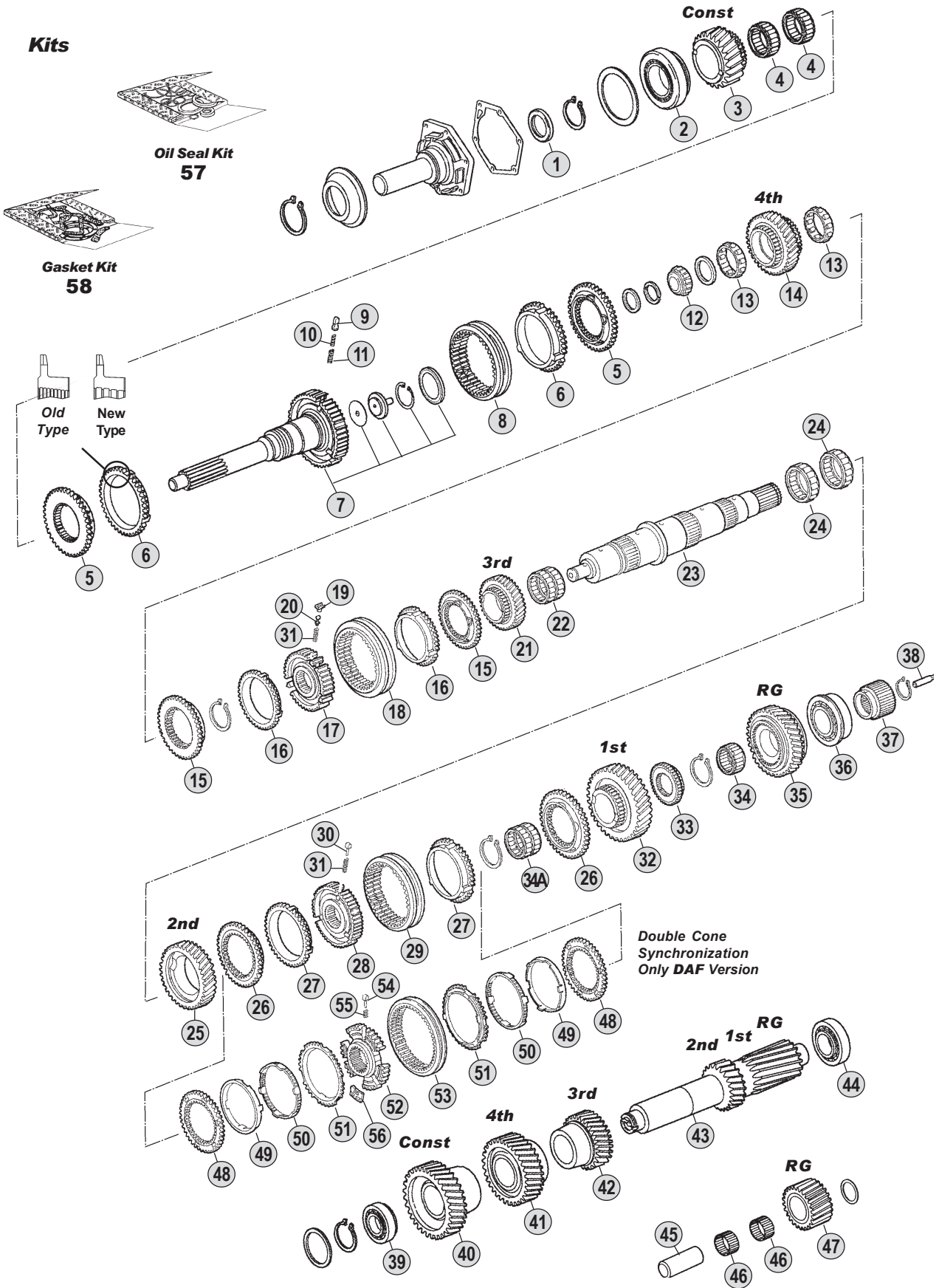
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**ECOMID**  
16S109

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	<b>145.478</b>	1304 302 169	69637	Constant Gear 26 T	1		ABCD	●			
3	<b>145.516</b>	1304 302 150		Constant Gear 30 T	1		E	●			
4	137.142	0735 320 816	699640	Needle Cage D.75x83x23	2		●				
5	<b>109.169</b>	1304 302 188	69638	Synchronizer Cone	2		●				
6	119.149	1304 304 496	69639	Synchronizer Ring	2	Old Type	●				
6	<b>119.173</b>	1304 304 680	1350353	Synchronizer Ring	2	New Type	●				
7	<b>190.311</b>	1304 202 201	1268569	Input Shaft	1		●				
7	<b>190.312</b>	1304 202 202		Input Shaft	1		●				
7	<b>190.298</b>	1304 202 203		Input Shaft	1		●				
8	<b>154.064</b>	1240 304 272	326592	Sliding Sleeve	1		●				
9	<b>160.116</b>	1240 304 278	326962	Pressure Piece	3		●				
10	<b>156.036</b>	0732 040 386	326964	Inner Spring De.3x34	3		●				
11	<b>156.037</b>	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	<b>146.397</b>	1304 304 516	69656	Gear 4th Speed 27 T	1		ABCD	●			
14	<b>146.439</b>	1304 304 518	1305823	Gear 4th Speed 27 T	1		E	●			
15	<b>109.170</b>	1304 304 012	69652	Synchronizer Cone	2		●				
16	119.150	1304 304 014	699659	Synchronizer Ring	2	Old Type	●				
16	<b>119.169</b>	1304 304 683	1363793	Synchronizer Ring	2	New Type	●				
17	<b>157.186</b>	1304 304 515	69653	Synchronizer Hub	1		●				
18	<b>154.199</b>	1304 304 688	1382066	Sliding Sleeve	1		●				
19	<b>188.096</b>	1238 304 394	171350	Pressure Piece	3		●				
20	<b>160.143</b>	1249 304 222	171351	Plunger	3		●				
21	<b>145.479</b>	1304 304 475	69651	Gear 3rd Speed 29 T	1		ABCD	●			
21	<b>145.518</b>	1304 304 417	1305822	Gear 3rd Speed 32 T	1		E	●			
22	137.142	0735 320 816	699640	Needle Cage D.75x83x23	1		●				
23	<b>103.129</b>	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	<b>109.171</b>	1304 304 408	699642	Synchronizer Cone	2		●				
27	119.151	1304 304 542	67762	Synchronizer Ring	2	Old Type	●				
27	<b>119.170</b>	1304 304 681	1352001	Synchronizer Ring	2	New Type	●				
28	<b>157.187</b>	1304 304 653	1300674	Synchronizer Hub	1		●				
29	<b>154.200</b>	1304 304 597	68512	Sliding Sleeve	1		●				
30	<b>160.189</b>	1297 304 436	68332	Pressure Piece	3		●				
31	<b>156.140</b>	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	<b>109.172</b>	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

07 / 2006

## Table

0230 / A

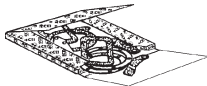
Suitable To : **ZF**

**16S109**

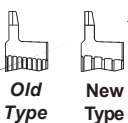
**Kits**



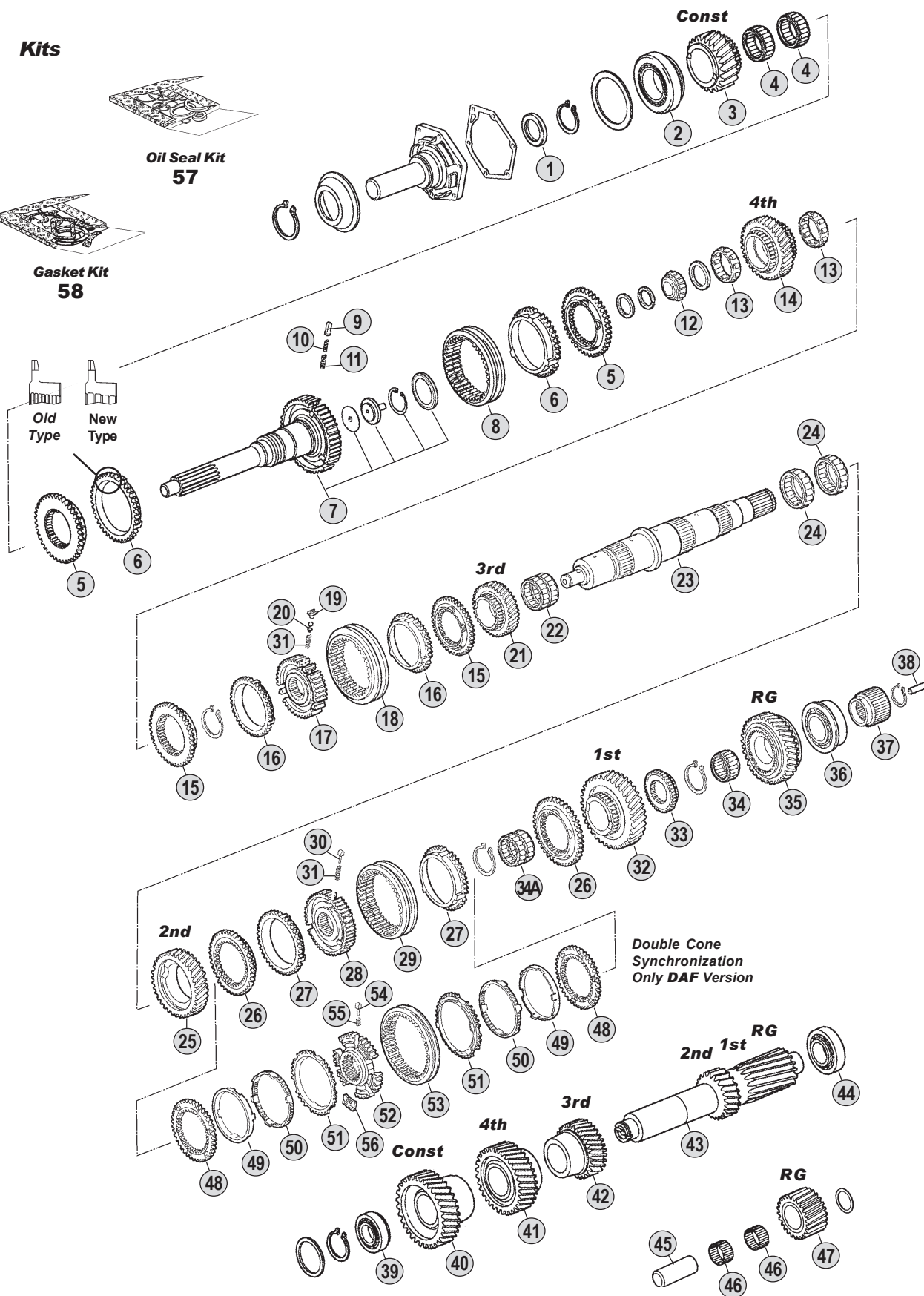
**Oil Seal Kit  
57**



**Gasket Kit  
58**



**Old Type  
New Type**



*Double Cone  
Synchronization  
Only DAF Version*

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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.										
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	<b>146.394</b>	1304 303 273	69643	Constant Gear 33 T	1	ABCD	●					
40	<b>146.434</b>	1304 303 283		Constant Gear 31 T	1	E	●					
41	<b>146.395</b>	1304 303 212	69642	Gear 4th Speed 29 T.	1	ABCD	●					
41	<b>146.436</b>	1304 303 175	1305816	Gear 4th Speed 34 T	1	E	●					
42	<b>146.396</b>	1304 303 214	69641	Gear 3rd Speed 22 T	1	ABCD	●					
42	<b>146.438</b>	1304 303 192	1305815	Gear 3rd Speed 28 T	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	<b>109.407</b>	1304 304 623	1296007	Synchronizer Cone	2	(*)	●					
49	<b>119.221</b>	1290 304 350	1268584	Internal Ring	2	(*)	●					
50	119.222	6002 306 154	1433230	Intermediate Ring	2	(*)	●					
51	<b>119.223</b>	1290 304 438	1268586	Outer Ring	2	(*)	●					
52	<b>157.713</b>	1304 304 687	1387269	Synchronizer Hub	1	(*)	●					
53	<b>154.373</b>	6002 305 994	1287575	Sliding Sleeve	1	(*)	●					
54	<b>160.189</b>	1297 304 436	68332	Pressure Piece	3	(*)	●					
55	<b>156.140</b>	0732 040 409	171349	Spring D.6,5x23,5	3	(*)	●					
56	<b>156.176</b>	1312 304 159	1300312	Pad	3	(*)	●					
57	<b>298.026</b>	1304 298 908	1344715	Oil Seal Kit	1		●					
58	<b>198.945</b>	1304 298 914	1363925	Gasket Kit	1		●					

## Notes

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

## Date

07 / 2006

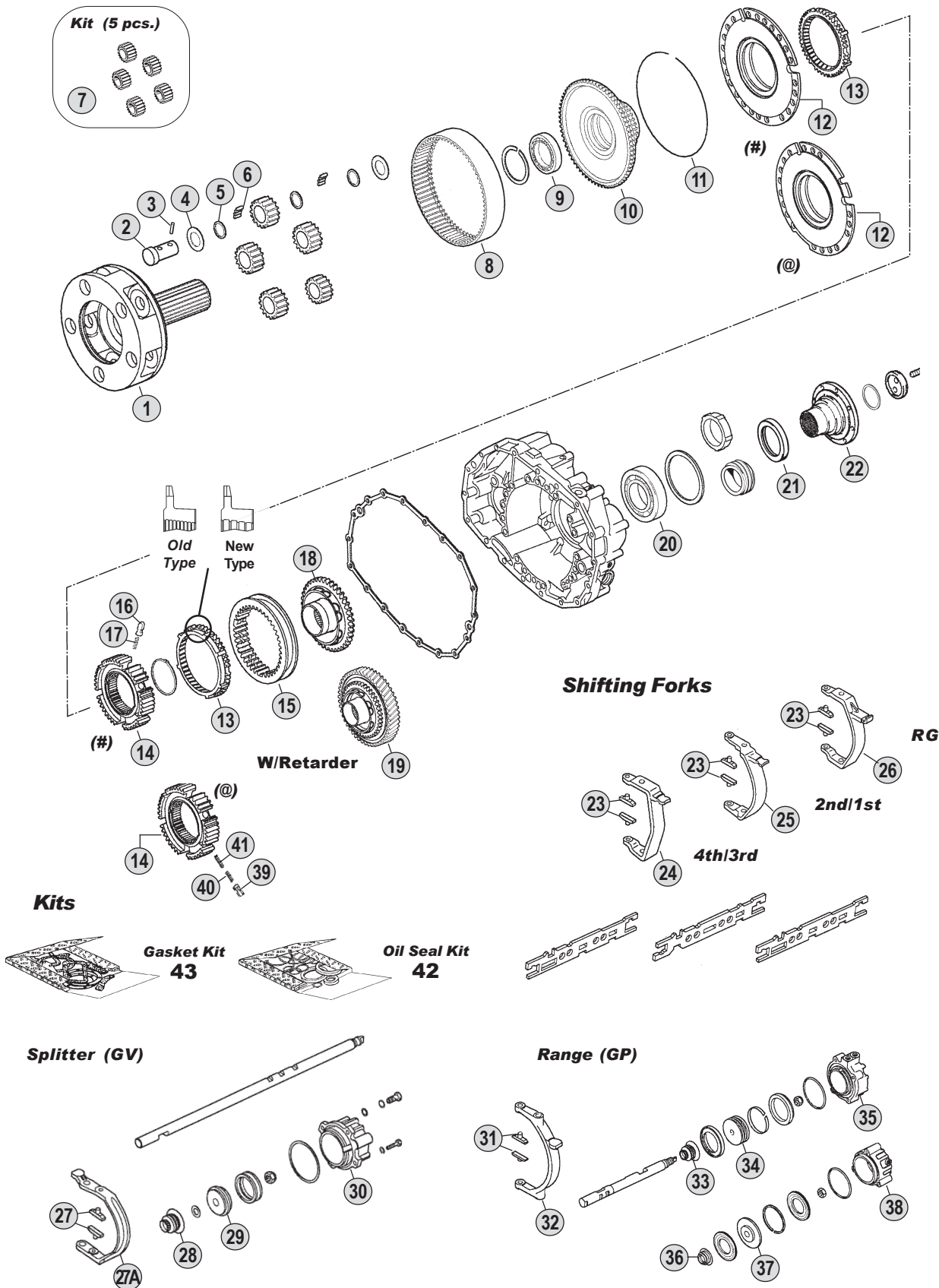
## Table

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.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	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

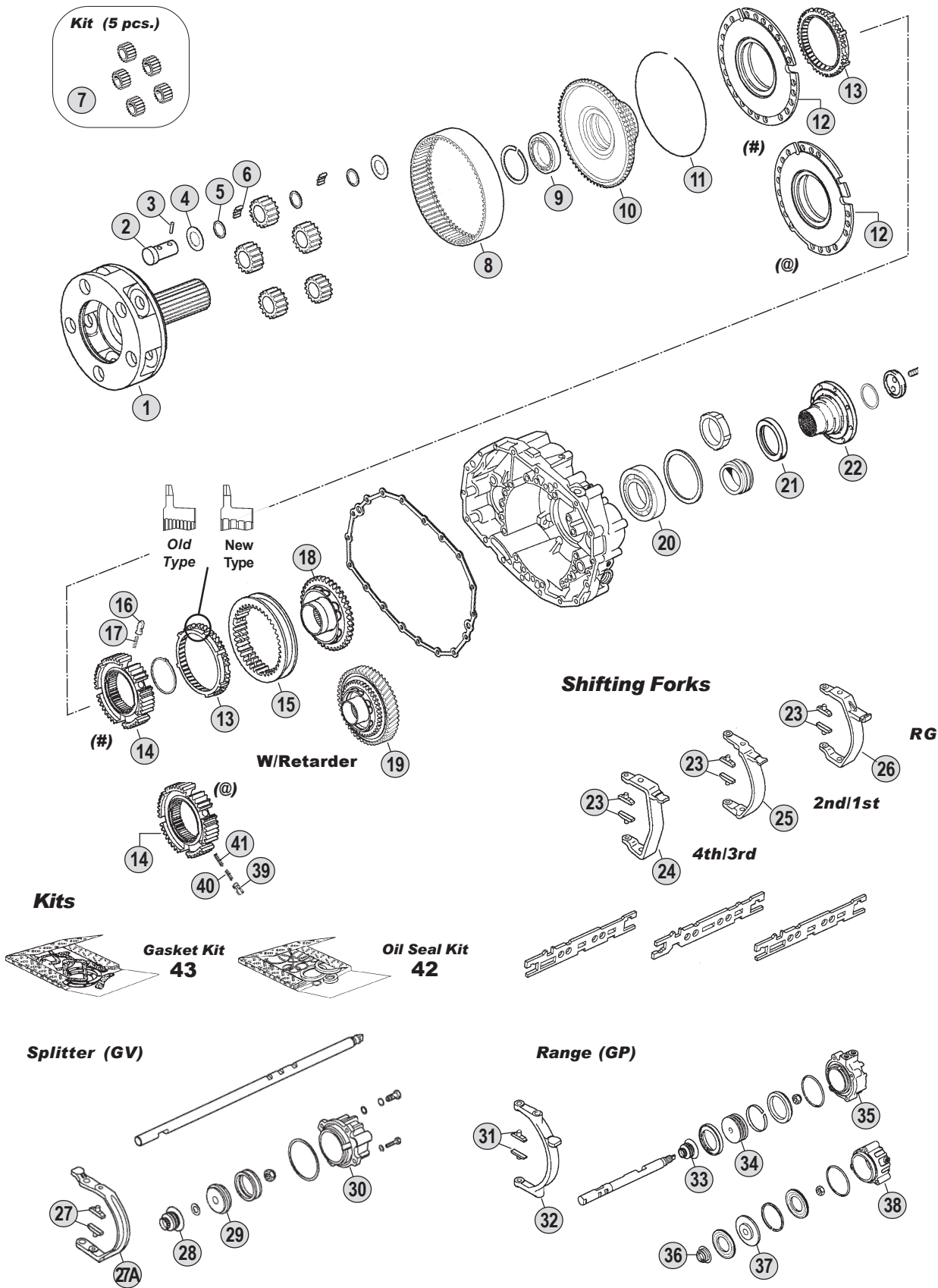
07 / 2006

## 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

07 / 2006

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)				
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

### Ratios

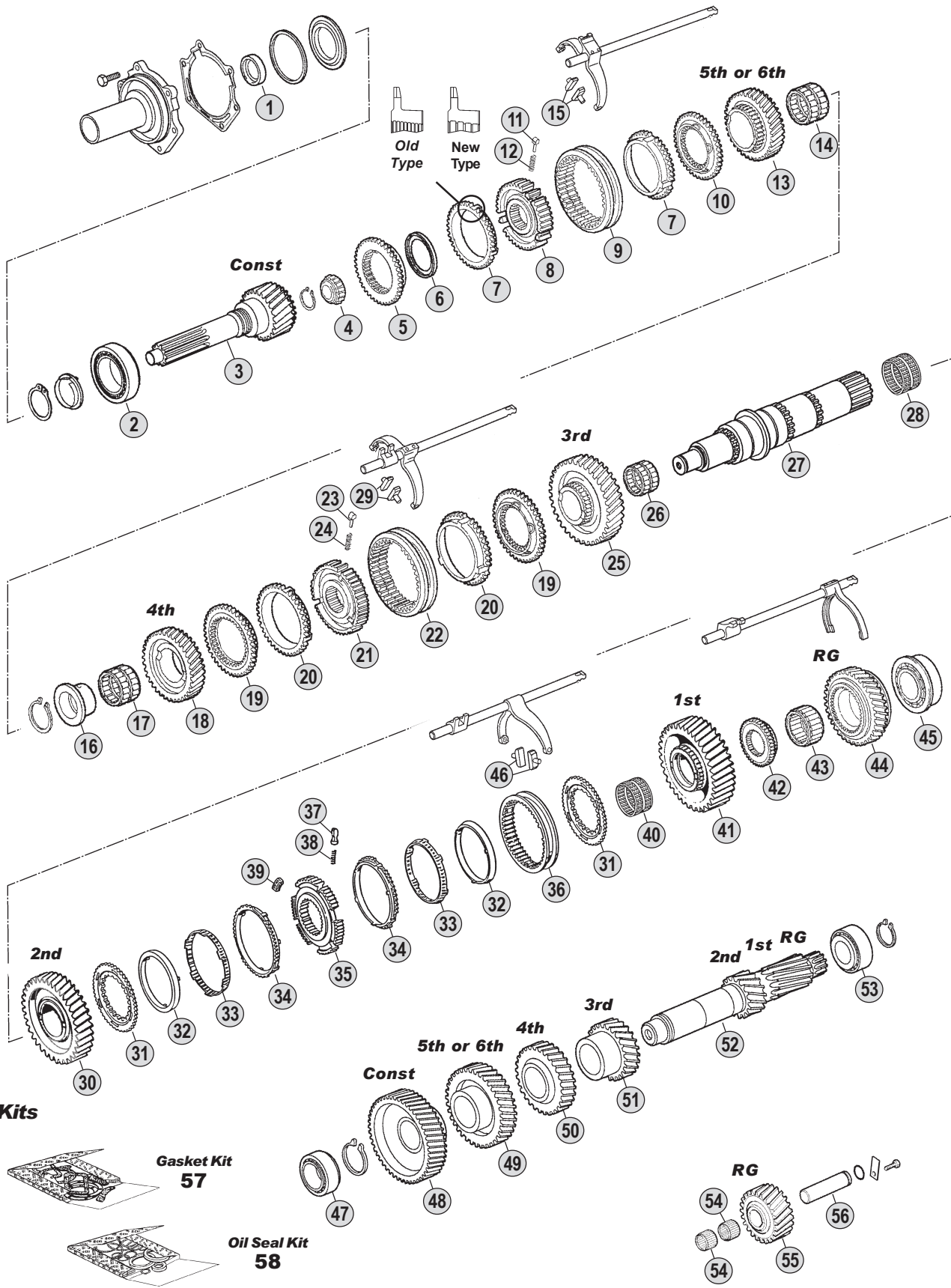
Ratio	Note
<b>6,75-0,83</b>	<b>A</b>
<b>7,72-1,00</b>	<b>B</b>

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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	<b>102.391</b>	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	<b>109.400</b>	1310 302 023		Synchronizer Cone	1		A ●					
5	<b>109.401</b>	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	<b>119.220</b>	1311 304 255	3121711	Synchronizer Ring	2	New Type	●					
8	<b>157.706</b>	1311 304 226	1699780	Synchronizer Hub	1		●					
9	<b>154.363</b>	1304 304 664	3121710	Sliding Sleeve	1		●					
10	<b>109.402</b>	1311 304 009	3121692	Synchronizer Cone	1		●					
11	<b>160.189</b>	1297 304 436	3121706	Pressure Piece	3		●					
12	<b>156.140</b>	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	<b>141.194</b>	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	<b>109.134</b>	1312 304 027	3097062	Synchronizer Cone	2		●					
20	<b>119.119</b>	1297 304 402	3097026	Synchronizer Ring	2	Old Type	●					
20	<b>119.167</b>	1297 304 484	1662711	Synchronizer Ring	2	New Type	●					
21	<b>157.707</b>	1310 304 080	3097060	Synchronizer Hub	1		●					
22	<b>154.135</b>	1310 304 202	3097061	Sliding Sleeve	1		●					
23	<b>160.189</b>	1297 304 436	3121706	Pressure Piece	3		●					
24	<b>156.140</b>	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	<b>141.194</b>	1290 306 066	3123293	Bronze Slide	2		●					
30	145.892	1310 304 012	3097052	Gear 2nd Speed 43 T	1		●					
31	<b>109.176</b>	1312 304 106	3097059	Synchronizer Cone	2		●					
32	<b>119.152</b>	1268 304 424	3097024	Intermediate synchro ring	2		●					
33	<b>119.153</b>	1268 304 494	3097025	Intermediate synchro ring	2		●					

Notes

Date

07 / 2006

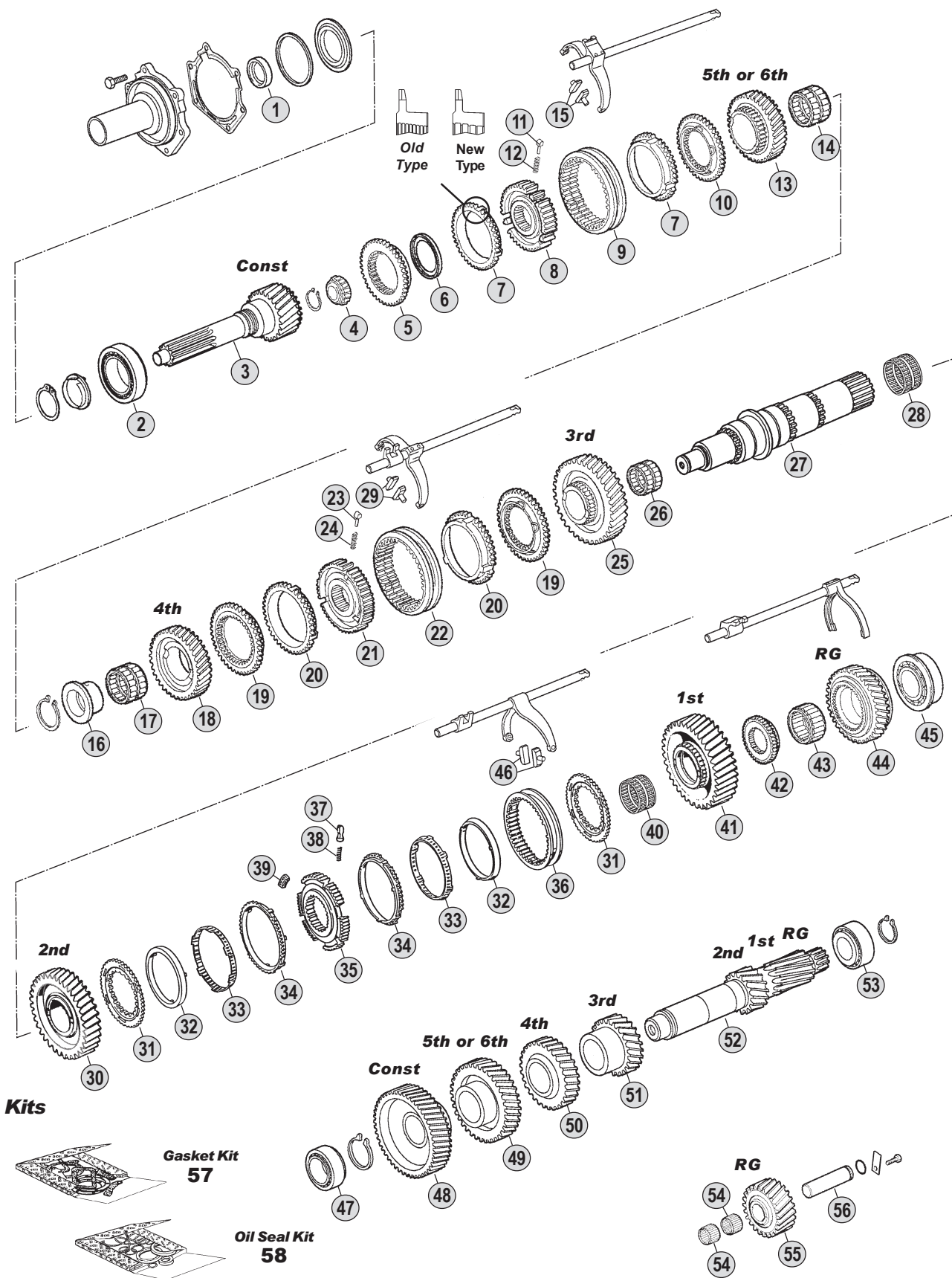
Table

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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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suitable to :

# Z.F.

## EcoLite

### 6S-1600

### Application

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

### Ratios

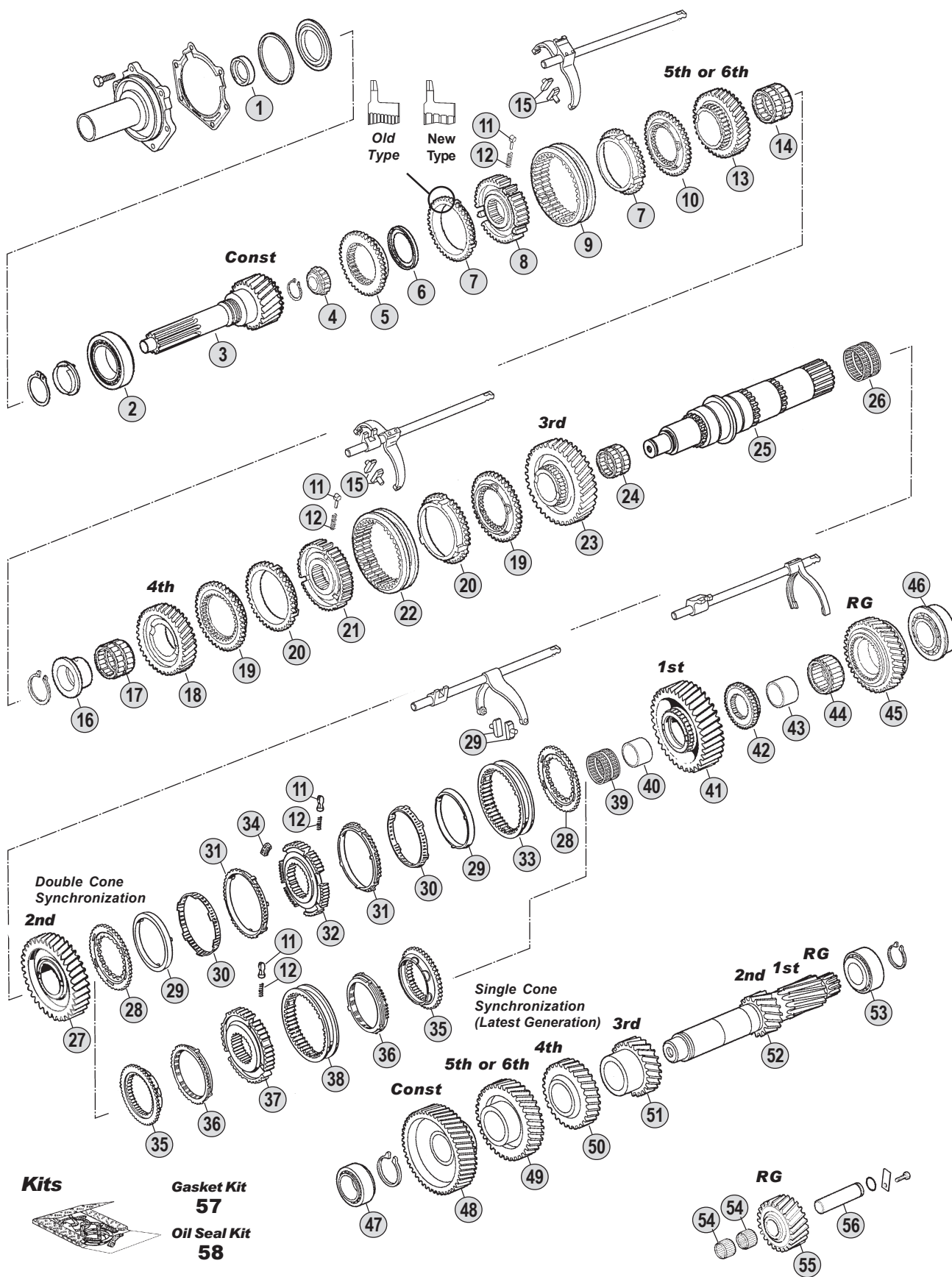
Ratio	Note
<b>6,32-0,81</b>	<b>A</b>
<b>7,72-1,00</b>	<b>B</b>

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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.	6S-1600 (1310)							
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	<b>102.396</b>	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	<b>137.150</b>	0750 117 232		Roller Cage D.42x81x40,30	1		●								
5	<b>109.403</b>	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	<b>119.142</b>	1268 304 594	3121716	Synchronizer Ring	2	New Type	●								
8	<b>157.710</b>	1310 304 158	3096875	Mozzo sincronizzatore	1		●								
9	<b>154.371</b>	1310 304 195	3121714	Sliding Sleeve	1		●								
10	<b>109.404</b>	1310 304 161	3096874	Synchronizer Cone	1		●								
11	<b>160.189</b>	1297 304 436	3121706	Pressure Piece	3		●								
12	<b>156.140</b>	0732 040 409	266459	Spring D.6,5x23,5	3		●								
13	<b>145.894</b>	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 321 560	3096872	Needle Cage D.65x73x48	1		●								
15	<b>141.194</b>	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	<b>145.896</b>	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	<b>109.134</b>	1312 304 027	3097062	Synchronizer Cone	2		●								
20	<b>119.119</b>	1297 304 402	3097026	Synchronizer Ring	2	Old Type	●								
20	<b>119.167</b>	1297 304 484	1662711	Synchronizer Ring	2	New Type	●								
21	<b>157.180</b>	1312 304 052		Synchronizer Hub	1		●								
22	<b>154.135</b>	1310 304 202	3097061	Sliding Sleeve	1		●								
23	<b>145.898</b>	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	<b>103.196</b>	1310 304 189	3096850	Main Shaft	1		●								
26	137.276	0735 321 432	3096851	Needle Cage D.92x100x49,5	1		●								
27	<b>145.900</b>	1310 304 196	3096852	Gear 2nd Speed 43 T	1		●								
28	<b>109.176</b>	1312 304 106	3097059	Synchronizer Cone	2		●								
29	<b>119.152</b>	1268 304 424	3097024	Intermediate synchro ring	2		●								
30	<b>119.153</b>	1268 304 494	3097025	Intermediate synchro ring	2		●								
31	<b>119.144</b>	1268 304 525	3097058	Synchronizer Ring	2		●								
32	<b>157.181</b>	1312 304 158		Synchronizer Hub	1		●								
33	<b>154.190</b>	1310 304 175	3097064	Sliding Sleeve	1		●								

## Notes

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

## Date

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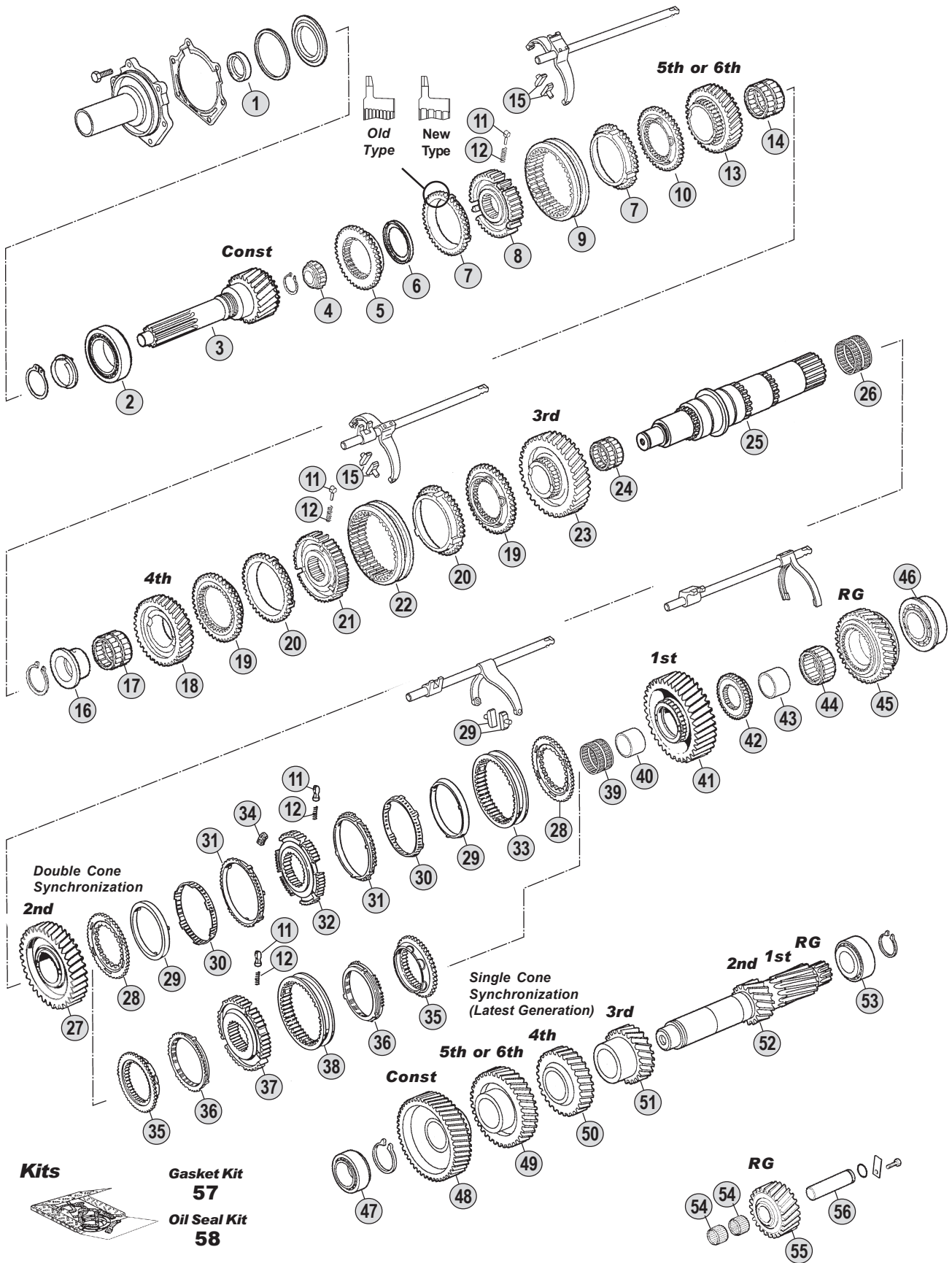
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Suitable To : **ZF**

**6S-1600**



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**Ratios**

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

6S-1600 (1310)

Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	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	3096855	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

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## Table

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suitable to :

# Z.F.

## EcoMid

### 9S75

### Application

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

### Ratios

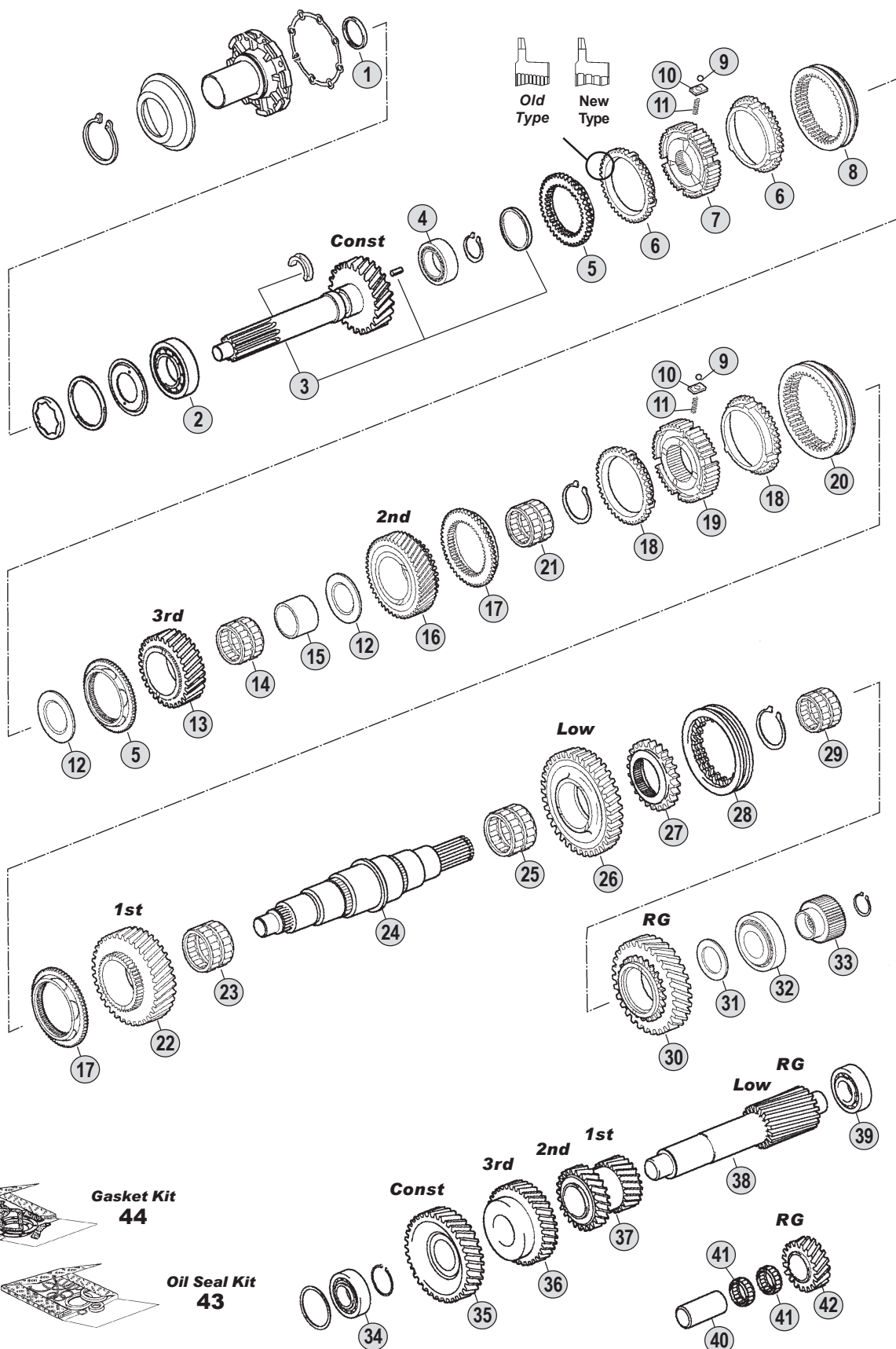
Ratio	Note
<b>13,16-1,00</b>	--

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**ECOMID**  
9S75

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	<b>190.331</b>	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	<b>109.135</b>	1308 304 078	1699879	Synchronizer Cone	2		●							
6	119.174	1308 304 072		Synchronizer Ring	2	Old type	●							
6	<b>119.117</b>	1308 304 097	1699923	Synchronizer Ring	2	New Type	●							
7	<b>157.219</b>	1307 304 607	1699922	Synchronizer Hub	1		●							
8	<b>154.170</b>	1308 304 090	1699924	Sliding Sleeve	1		●							
9	<b>171.014</b>	0635 460 010	190288	Ball D.6	3		●							
10	<b>139.553</b>	1307 304 156	1699913	Slide	3		●							
11	<b>156.178</b>	0732 041 571	1699912	Spring	3		●							
12	269.008	0730 108 172	1699919	Washer A=4,15	2		●							
13	<b>145.826</b>	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	<b>145.521</b>	1308 304 054	1699918	Gear 2nd Speed 30 T	1		●							
17	<b>109.137</b>	1308 304 077	1699907	Synchronizer Cone	2		●							
18	119.116	1308 304 070		Synchronizer Ring	2	Old Type	●							
18	<b>119.141</b>	1308 304 096	1699909	Synchronizer Ring	2	New Type	●							
19	<b>157.220</b>	1307 304 608	1699908	Synchronizer Hub	1		●							
20	<b>154.171</b>	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	<b>103.137</b>	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	<b>157.200</b>	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	<b>146.432</b>	1308 303 023	1699896	Constant Gear 37 T	1		●							
36	<b>146.585</b>	1308 303 027	1699895	Gear 3rd Speed 32 T	1		●							
37	<b>143.124</b>	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

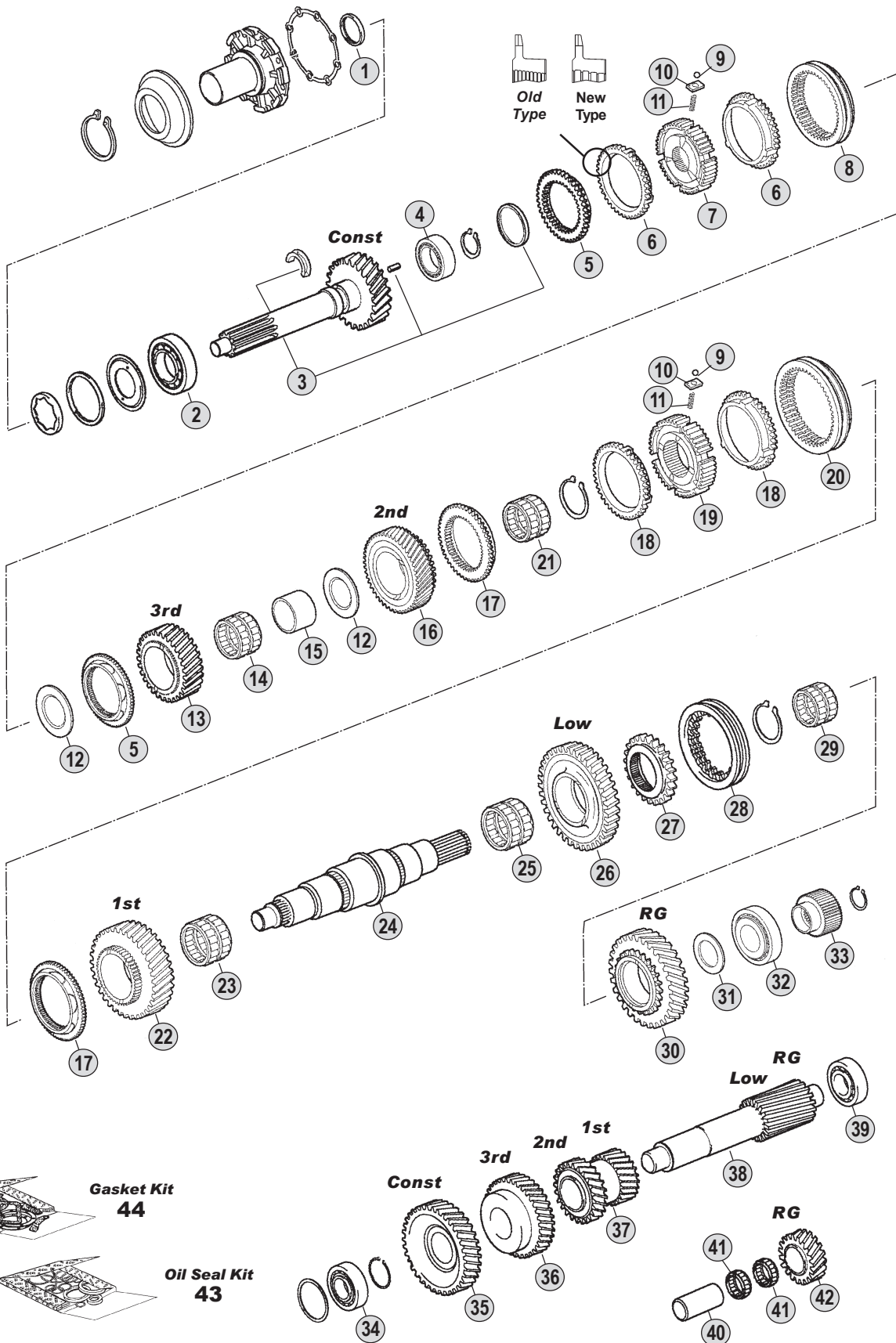
## Table

0260 / A

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Suitable To : **ZF**

**9S75**



**Kits**



**Ratios**

**9S75** Ratio : 13,16 - 1,00

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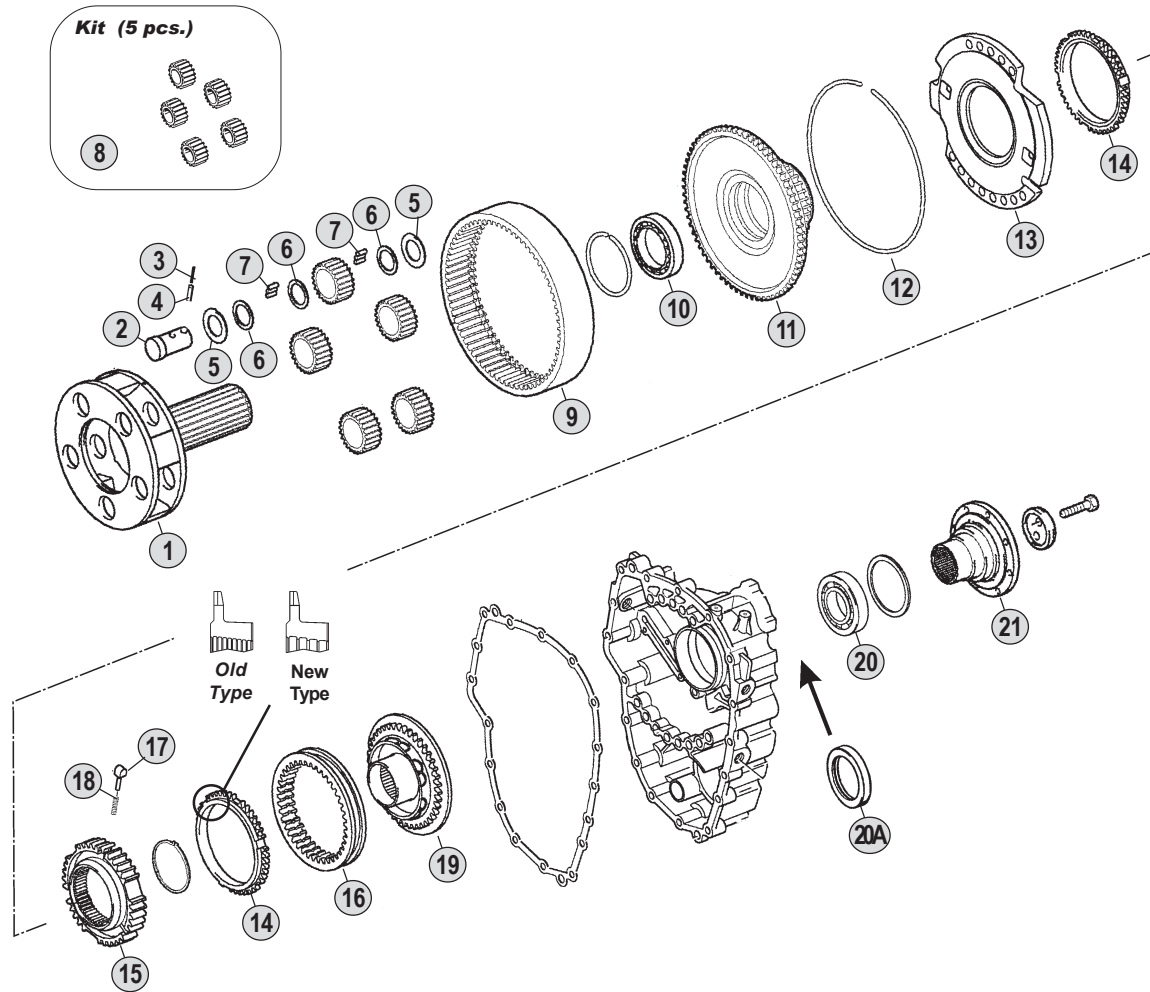


Fig.	O.E.M. Reference		Description	Q.ty	Note	Ratio	9S75 (1/308)					
	CEI no.	ZF no.					VOLVO no.					
40	107.156	1304 305 030		Reverse Shaft	1		•					
41	137.143	0735 358 192		Needle Cage D.40x60x26	2		•					
42		1308 305 001	3094012	Reverse Gear 20 T	1		•					
43	298.025	1308 298 009		Oil Seal Kit	1		•					
44	<b>198.944</b>	1308 298 001		Gasket Kit	1		•					

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Suitable To : **ZF**

**9S75**



**Kits**

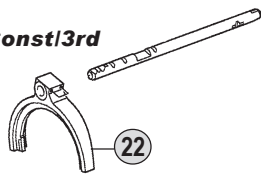


**Gasket Kit  
31**

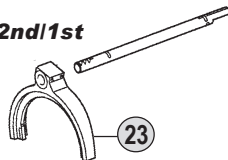


**Oil Seal Kit  
30**

**Const/3rd**

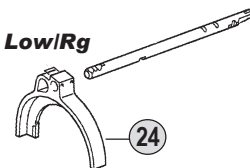


**2nd/1st**

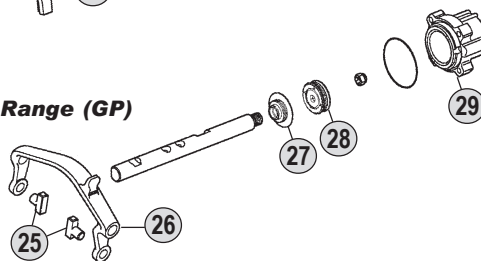


**Shifting Forks**

**Low/Rg**



**Range (GP)**



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**Ratios**

**9S75** Ratio : 13,16 - 1,00

9S75 (1/308)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio										
		ZF no.	VOLVO no.														
1	190.350	1308 232 011		Planetary Carrier	1			●									
1		1308 232 009		Planetary carrier	1	(*)		●									
2	107.138	1308 332 004	1699988	Planetary 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.150-4 H.		●									
21		1308 338 026	3127601	Output Flange	1	D.175-8 H.		●									
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**

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# 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)				
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

### Ratios

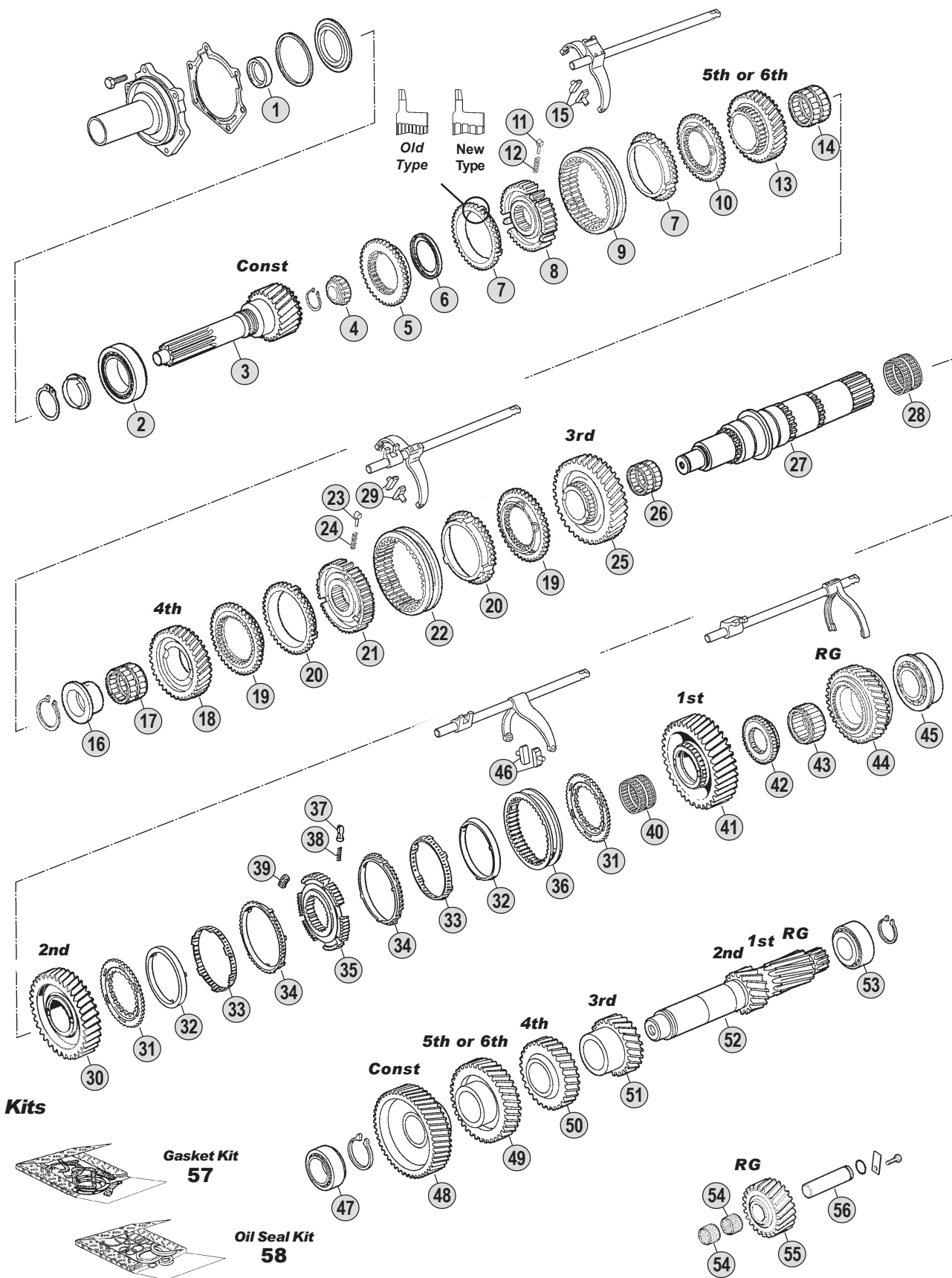
Ratio	Note
<b>6,75-0,83</b>	<b>A</b>
<b>7,72-1,00</b>	<b>B</b>

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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.	O.E.M. Reference		Description	Q.ty	Note	Ratio						
	CEI no.	ZF no.					SETRA no.	S6-85 (1310)				
1	139.753	0750 111 149	89200220744	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	<b>102.391</b>	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		Bearing D.28x32	1		●					
5	<b>109.400</b>	1310 302 023		Synchronizer Cone	1		A	●				
5	<b>109.401</b>	1310 302 024		Synchronizer Cone	1		B	●				
6	269.011	0501 313 171		Oil Seal	1		●					
7	119.219	1311 304 076		Synchronizer Ring	2	Old Type	●					
7	<b>119.220</b>	1311 304 255		Synchronizer Ring	2	New Type	●					
8	<b>157.706</b>	1311 304 226		Synchronizer Hub	1		●					
9	<b>154.363</b>	1304 304 664		Sliding Sleeve	1		●					
10	<b>109.402</b>	1311 304 009		Synchronizer Cone	1		●					
11	<b>160.189</b>	1297 304 436	89200221229	Pressure Piece	3		●					
12	<b>156.140</b>	0732 040 409	39022073100	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	<b>141.194</b>	1290 306 066	89200220851	Bronze Slide	2		●					
16	117.384	1311 304 124		Bush	1		●					
17	137.078	0735 320 493		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	<b>109.134</b>	1312 304 027	99114220828	Synchronizer Cone	2		●					
20	<b>119.119</b>	1297 304 402	99114221076	Synchronizer Ring	2	Old Type	●					
20	<b>119.167</b>	1297 304 484	281324200146	Synchronizer Ring	2	New Type	●					
21	<b>157.707</b>	1310 304 080		Synchronizer Hub	1		●					
22	<b>154.135</b>	1310 304 202	99114221075	Sliding Sleeve	1		●					
23	<b>160.189</b>	1297 304 436	89200221229	Pressure Piece	3		●					
24	<b>156.140</b>	0732 040 409	39022073100	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	<b>141.194</b>	1290 306 066	89200220851	Bronze Slide	2		●					
30	145.892	1310 304 012		Gear 2nd Speed 43 T	1		●					
31	<b>109.176</b>	1312 304 106	99114221179	Synchronizer Cone	2		●					
32	<b>119.152</b>	1268 304 424	99114221180	Intermediate synchro ring	2		●					
33	<b>119.153</b>	1268 304 494	99114221181	Intermediate synchro ring	2		●					

Notes

Date

07 / 2006

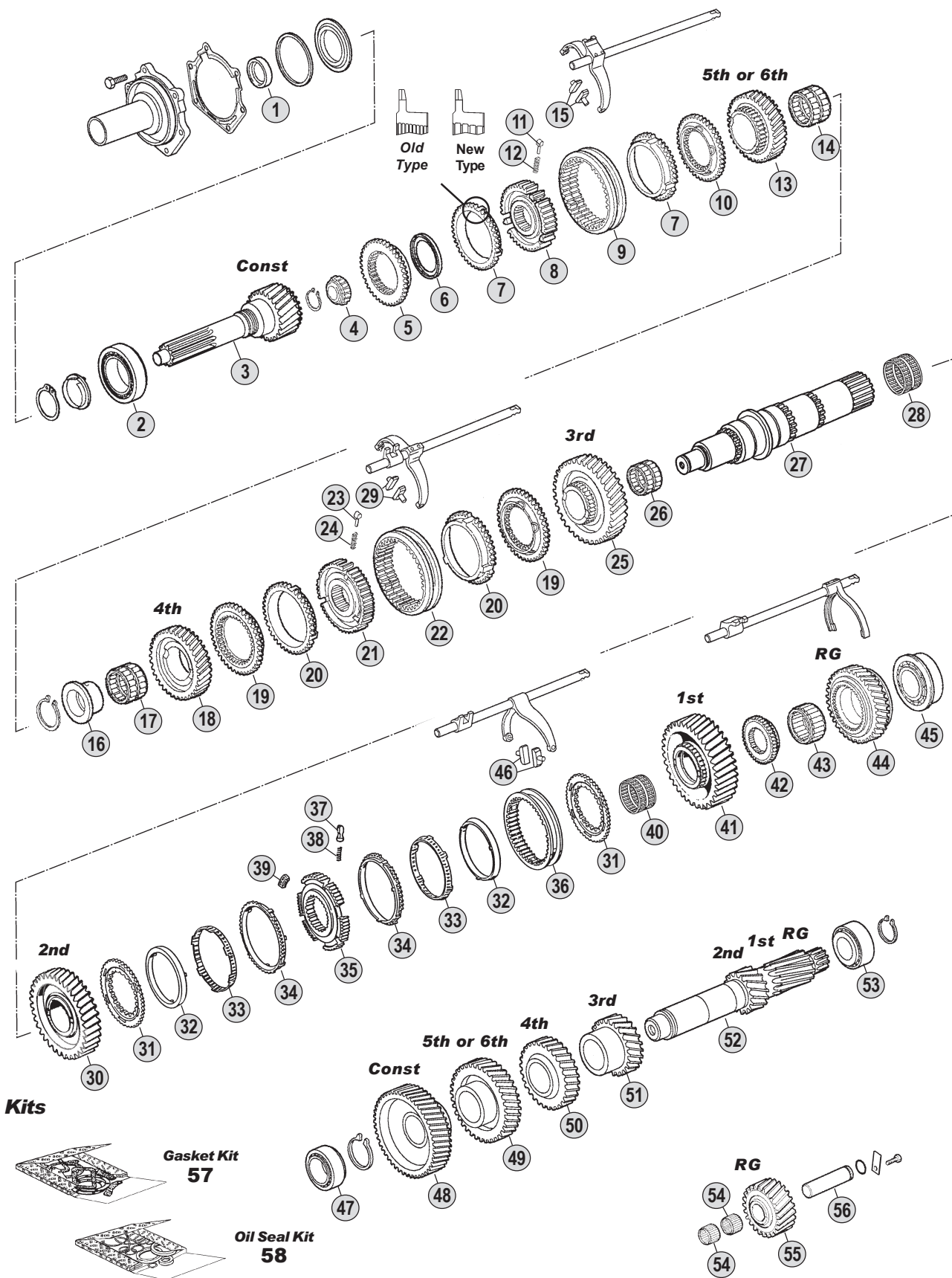
Table

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.					S6-85 (1310)			
34	119.144	1268 304 525	99114221182	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	89200221229	Pressure Piece	3		●				
38	156.140	0732 040 409	39022073100	Spring D.6,5x23,5	3		●				
39	156.176	1312 304 159	99114221184	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	89200220851	Bronze Slide	2		●				
47	130.234	0750 117 083	880 22 10 6600	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		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

0270

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suitable to :

# Z.F.

## EcoLite

### 6S-1600

### Application

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

### Ratios

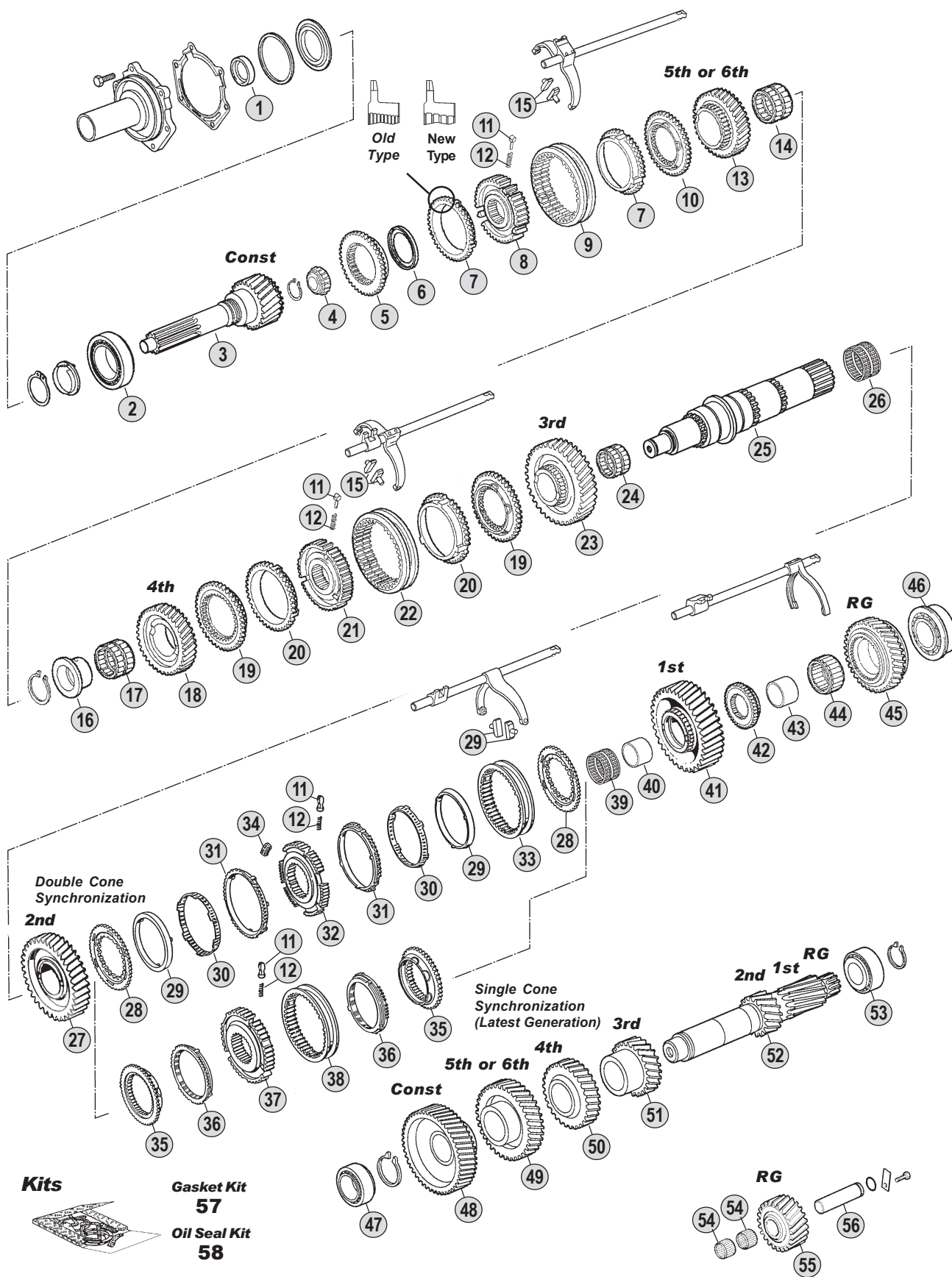
Ratio	Note
<b>6,32-0,81</b>	<b>A</b>
<b>7,72-1,00</b>	<b>B</b>

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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.									
1	139.754	0734 310 386		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	<b>102.396</b>	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	<b>137.150</b>	0750 117 232	99114220887	Roller Cage D.42x81x40,30	1		●				
5	<b>109.403</b>	1310 302 045		Synchronizer Cone	1		●				
6		0501 315 236		Ring	1		●				
7	119.118	1268 304 445		Synchronizer Ring	2	Old Type	●				
7	<b>119.142</b>	1268 304 594		Synchronizer Ring	2	New Type	●				
8	<b>157.710</b>	1310 304 158		Mozzo sincronizzatore	1		●				
9	<b>154.371</b>	1310 304 195		Sliding Sleeve	1		●				
10	<b>109.404</b>	1310 304 161		Synchronizer Cone	1		●				
11	<b>160.189</b>	1297 304 436	89200221229	Pressure Piece	3		●				
12	<b>156.140</b>	0732 040 409	39022073100	Spring D.6,5x23,5	3		●				
13	<b>145.894</b>	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 321 560		Needle Cage D.65x73x48	1		●				
15	<b>141.194</b>	1290 306 066	89200220851	Bronze Slide	2		●				
16		0730 162 753		Bush	1		●				
17	137.275	0735 321 392		Needle Cage D.85x93x44	1		●				
18	<b>145.896</b>	1310 304 178		Gear 4th Speed 28 T	1		●	A			
18	145.897	1310 304 177		Gear 4th Speed 28 T	1		●	B			
19	<b>109.134</b>	1312 304 027	99114220828	Synchronizer Cone	2		●				
20	<b>119.119</b>	1297 304 402	99114221076	Synchronizer Ring	2	Old Type	●				
20	<b>119.167</b>	1297 304 484	281324200146	Synchronizer Ring	2	New Type	●				
21	<b>157.180</b>	1312 304 052	1991142208771	Synchronizer Hub	1		●				
22	<b>154.135</b>	1310 304 202	99114221075	Sliding Sleeve	1		●				
23	<b>145.898</b>	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	<b>103.196</b>	1310 304 189		Main Shaft	1		●				
26	137.276	0735 321 432		Needle Cage D.92x100x49,5	1		●				
27	<b>145.900</b>	1310 304 196		Gear 2nd Speed 43 T	1		●				
28	<b>109.176</b>	1312 304 106	99114221179	Synchronizer Cone	2		●				
29	<b>119.152</b>	1268 304 424	99114221180	Intermediate synchro ring	2		●				
30	<b>119.153</b>	1268 304 494	99114221181	Intermediate synchro ring	2		●				
31	<b>119.144</b>	1268 304 525	99114221182	Synchronizer Ring	2		●				
32	<b>157.181</b>	1312 304 158	99114221183	Synchronizer Hub	1		●				
33	<b>154.190</b>	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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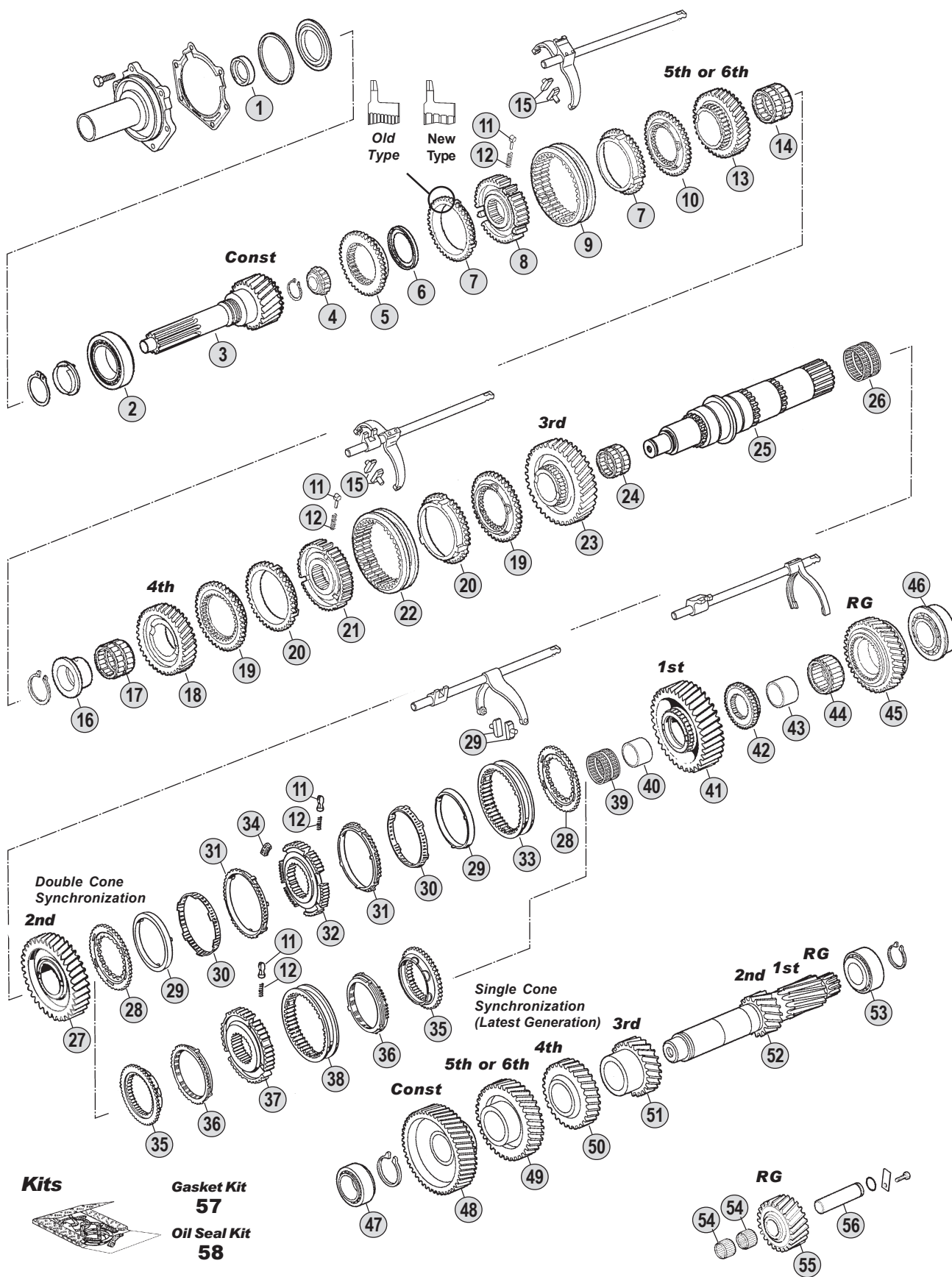
## Table

0280

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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.	O.E.M. Reference		Description	Q.ty	Note	Ratio	●						
	CEI no.	ZF no.											
34	156.176	1312 304 159	99114221184	Pad	3		●						
35	109.132	1313 304 009	99114220844	Synchronizer Cone	2	(*)	●						
36	119.122	1297 304 401	99114221078	Synchronizer Ring	2	Old Type (*)	●						
36	119.166	1297 304 485		Synchronizer Ring	2	New Type (*)	●						
37	157.189	1313 304 008	99114220841	Synchronizer Hub	1	(*)	●						
38	154.202	1316 304 078	99114220842	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	880 22 10 6600	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		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		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

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suitable to :

# Z.F.

## EcoMid

### 6S150C

### Application

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

### Ratios

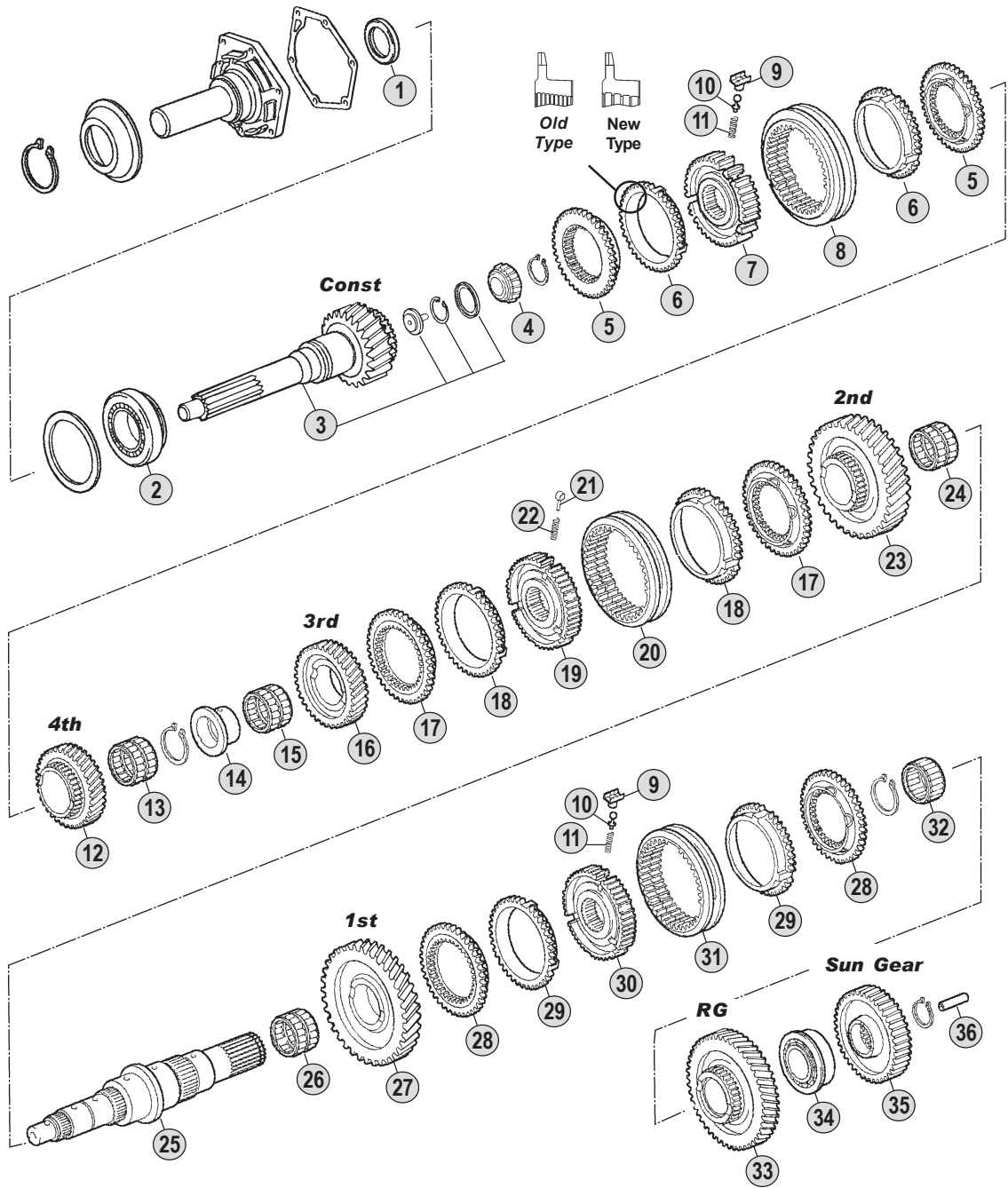
Ratio	Note
<b>7,02-0,81</b>	<b>A</b>
<b>8,07-1,00</b>	<b>B</b>
<b>8,65-1,00</b>	<b>C</b>
<b>8,66-1,00</b>	<b>D</b>

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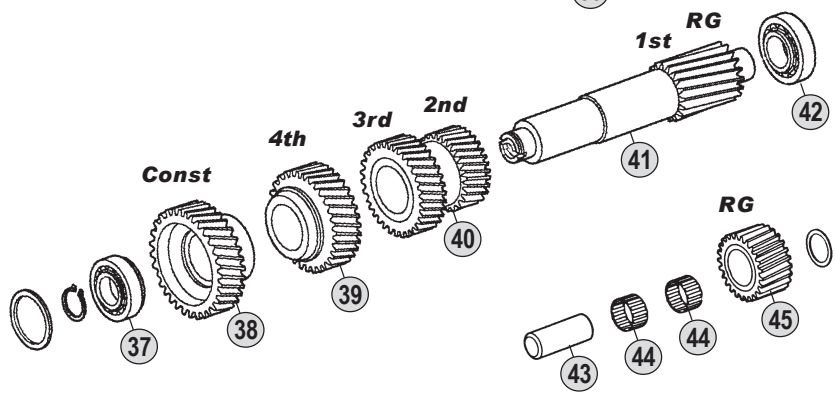
**ECOMID**  
6S150C

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		Oil seal D.55x72x10	1	(1)	●						
1	139.753	0750 111 149	89200220744	Oil Seal D.48x65x10	1	(2)	●						
2		0735 370 462		Roller bearing D.73x117,4x30,1	1	(1)	●						
2	130.313	0750 117 079	89200220717	Bearing D.66,6x117,4x30,1	1	(2)	●						
3	102.429	1304 202 186		Input shaft 28 T	1	(1)	A	●					
3	102.430	1304 202 188		Input shaft 28 T	1	(2)	A	●					
3	<b>102.345</b>	1304 202 190		Input Shaft 28 T	1	(2)	A	●					
3	102.344	1304 202 193		Input Shaft	1	(2)	B	●					
3	102.431	1304 202 182		Input shaft 25 T	1	(1)	CD	●					
3	102.432	1304 202 247		Input shaft 25 T	1	(1)	CD	●					
3	102.433	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	281935010098	Needle Bearing D.32x29,5	1		●						
5	<b>109.391</b>	1304 304 660	89200220834	Synchronizer Cone	2		●						
6	119.150	1304 304 014	89200220838	Synchronizer Ring	2	Old Type	●						
6	<b>119.169</b>	1304 304 683	281324200235	Synchronizer Ring	2	New Type	●						
7	<b>157.697</b>	1304 304 051	89200220836	Synchronizer Hub	1		●						
8	<b>154.361</b>	6002 305 515	89200221912	Sliding Sleeve	1		●						
9	<b>188.096</b>	1238 304 394	89200220839	Pressure Piece	3		●						
10	<b>160.143</b>	1249 304 222	390 22 08 2200	Plunger	3		●						
11	<b>156.140</b>	0732 040 409	39022073100	Spring D.6,5x23,5	3		●						
12	<b>145.821</b>	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		Gear 4th Speed 28 T	1		CD	●					
13	137.258	0735 321 011	89200221951	Needle Cage 60x68x23	1		●						
14	117.377	1304 304 050	89200220821	Bush	1		●						
15	137.074	0750 115 227		Needle Bearing D.75x83x40	1		●						
16	<b>145.820</b>	1304 304 461		Gear 3rd Speed 31 T	1		ACD	●					
16	145.818	1304 304 463		Gear 3rd Speed 29 T	1		B	●					
17	<b>109.171</b>	1304 304 408	89200220813	Synchronizer Cone	2		●						
18	119.151	1304 304 542	99100221006	Synchronizer Ring	2	Old Type	●						
18	<b>119.170</b>	1304 304 681		Synchronizer Ring	2	New Type	●						
19	<b>157.696</b>	1304 304 591	81324200207	Synchronizer Hub	1		●						
20	<b>154.200</b>	1304 304 597	89200221206	Sliding Sleeve	1		●						
21	<b>160.189</b>	1297 304 436	89200221229	Pressure Piece	3		●						
22	<b>156.140</b>	0732 040 409	39022073100	Spring D.6,5x23,5	3		●						
23	<b>147.222</b>	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		Gear 2nd Speed 34 T	1		D	●					
24	137.142	0735 320 816	89200220810	Needle Cage D.75x83x23	1		●						
25	<b>103.190</b>	1304 304 449	89200221069	Main Shaft	1		●						
26	137.257	0735 320 500	89200220790	Needle Cage D.75x83x35	1		●						
27	145.817	1304 304 430		Gear 1st Speed 37 T	1		●						
28	109.390	1304 304 445		Synchronizer Cone	2		●						
29	<b>119.072</b>	1238 304 420	692 00 22 0770	Synchronizer Ring	2	Old Type	●						

## Notes

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

## Date

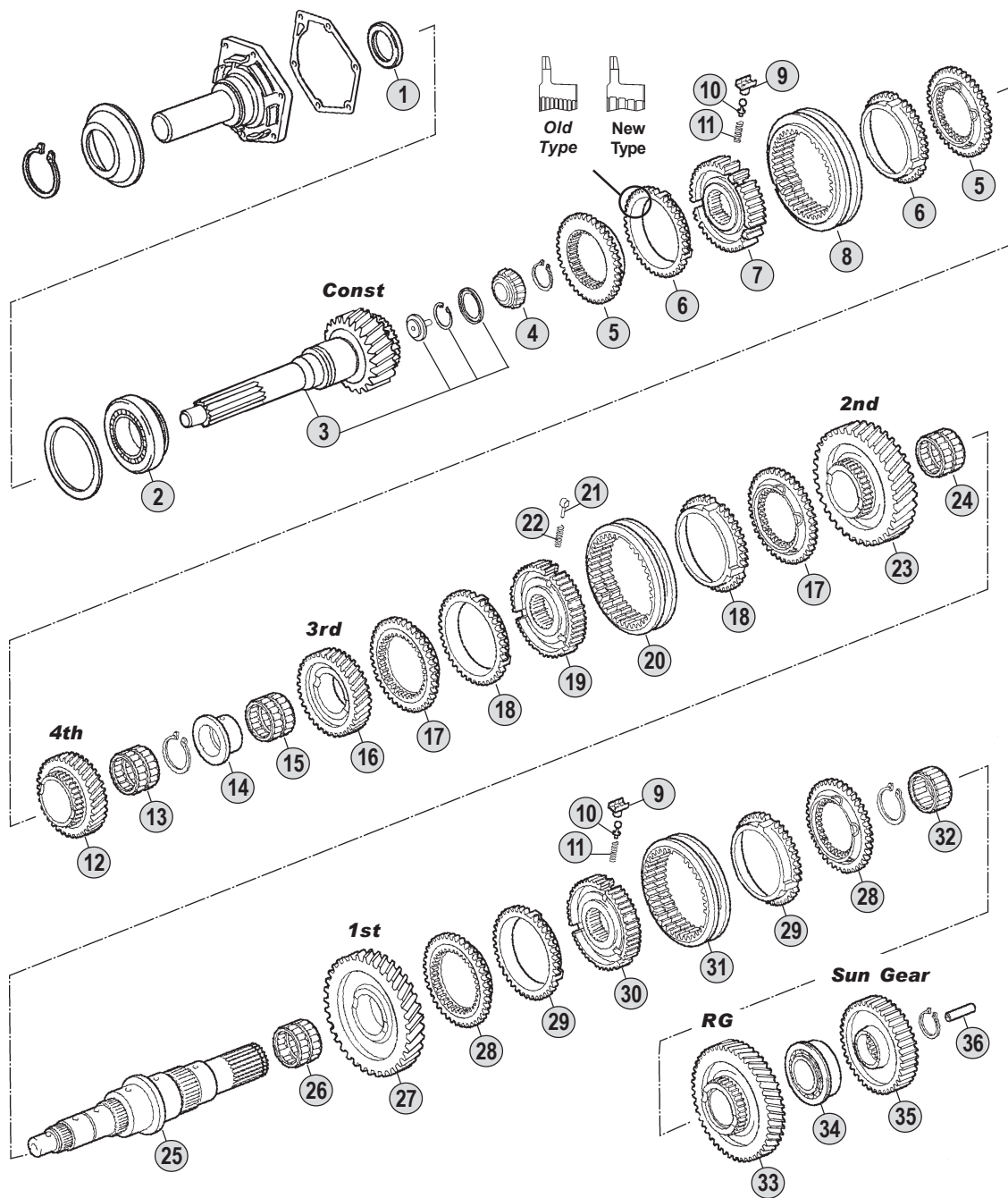
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## Table

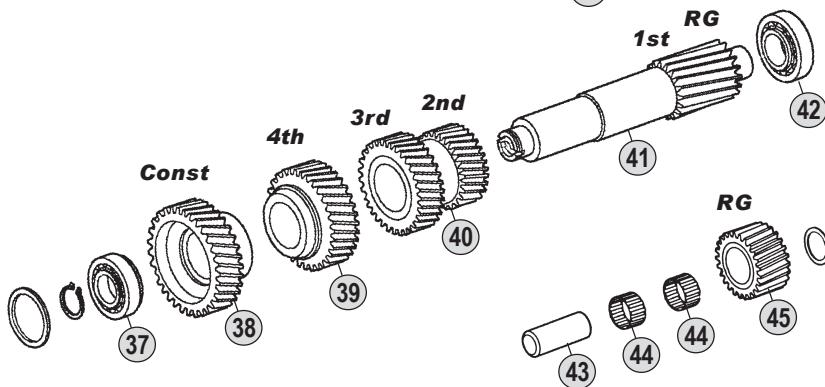
0290 / A

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.	O.E.M. Reference		Description	Q.ty	Note	Ratio							
	CEI no.	ZF no.					SETRA no.	6S150C (13004)					
29	<b>119.138</b>	1290 304 473		Synchronizer Ring	2	New Type	●						
30	157.694	1304 304 655		Synchronizer Hub	1		●						
31	154.360	1304 304 394		Sliding Sleeve	1		●						
32	137.147	0750 115 225	89200220795	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		Sun Gear 79 T	1		●						
36	188.209	1312 304 150	89200221981	Oil Tube	1		●						
37	130.314	0735 371 749		Bearing D.40x80x32	1		●						
38	<b>146.582</b>	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		Constant Gear 33 T	1		CD	●					
39	<b>147.223</b>	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		Gear 4th Speed 30 T	1		CD	●					
40	<b>143.117</b>	1304 303 230		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		Countershaft 14 T	1		●						
42	130.234	0750 117 083	880 22 10 6600	Bearing D.50,8x95,2x27,7	1		●						
43	107.156	1304 305 030	89200221066	Reverse Shaft	1		●						
44	137.143	0735 358 192		Needle Cage D.40x60x26	2		●						
45		1304 305 024		Reverse Gear 22 T	1		●						
46	<b>298.026</b>	1304 298 908		Oil Seal Kit	1		●						
47	<b>198.945</b>	1304 298 914		Gasket Kit	1		●						

## Notes

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

## Date

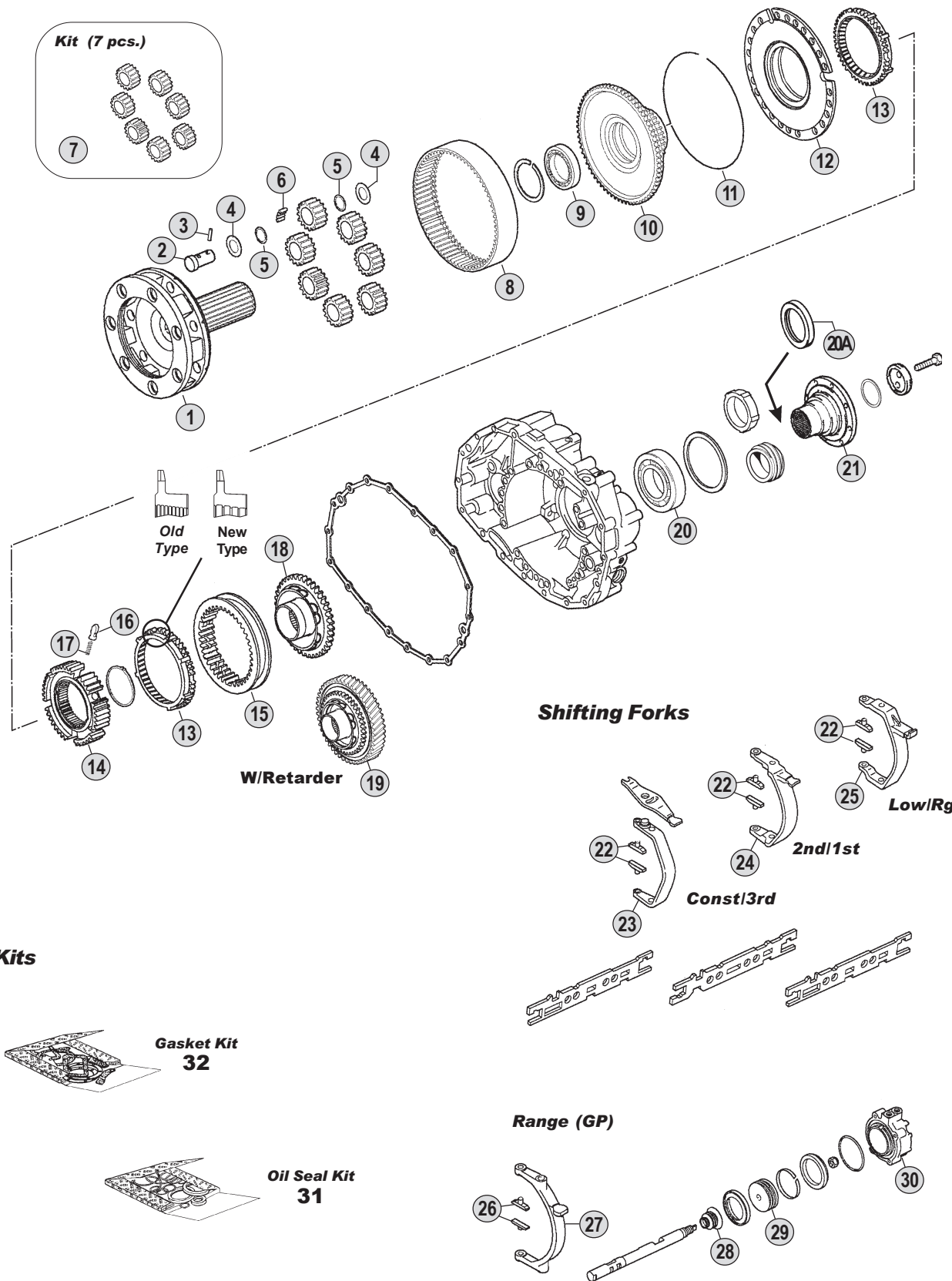
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## Table

0290 / 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





Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	SETRA 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		Lock Pin 4x16	7		●				
4	269.005	0501 309 496		Thrust Washer	14		●				
5	269.004	0730 105 881		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	99112221688	Bearing D.70x90x10	1		●				
10	150.163	1304 332 071		Carrier Hub	1		●				
11	111.175	0730 505 053	99112221453	Locking Wire 2,50	1		●				
12	198.817	1304 233 005	89200221963	Synchronizer Cone	1		●				
13	119.157	1304 333 005	89200291033	Synchronizer Ring	2	Old Type	●				
13	119.171	1304 333 021		Synchronizer Ring	2	New Type	●				
14	157.205	1304 332 066	89200221029	Synchronizer Hub	1		●				
15	154.210	1304 332 089	89200221034	Sliding sleeve	1		●				
16	160.116	1240 304 278	880 22 10 2800	Pressure Piece	6		●				
17	156.037	0732 040 385	88022102600	Outer Spring De.6x34	6		●				
18	109.183	1304 332 075		Synchronizer Cone	1		●				
19	109.397	1304 313 133		Synchronizer Cone	1	with retarder	●				
20	130.690	0750 116 048		Roller Bearing D.78x130x25	1		●				
20A		0734 319 439		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		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	89200220851	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	99112220787	Bronze Slide	2		●				
27		1304 334 039		Fork	1		●				
28		0750 112 047		Oil seal	1		●				
29		1304 334 072		Piston	1		●				
30		1304 334 061		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)
<b>MERCEDES</b>						
<b>M.A.N.</b>						
<b>IVECO</b>						
<b>R.V.I.</b>						
<b>DAF</b>						
<b>VOLVO</b>						
<b>KASS-SETRA</b>						

### Ratios

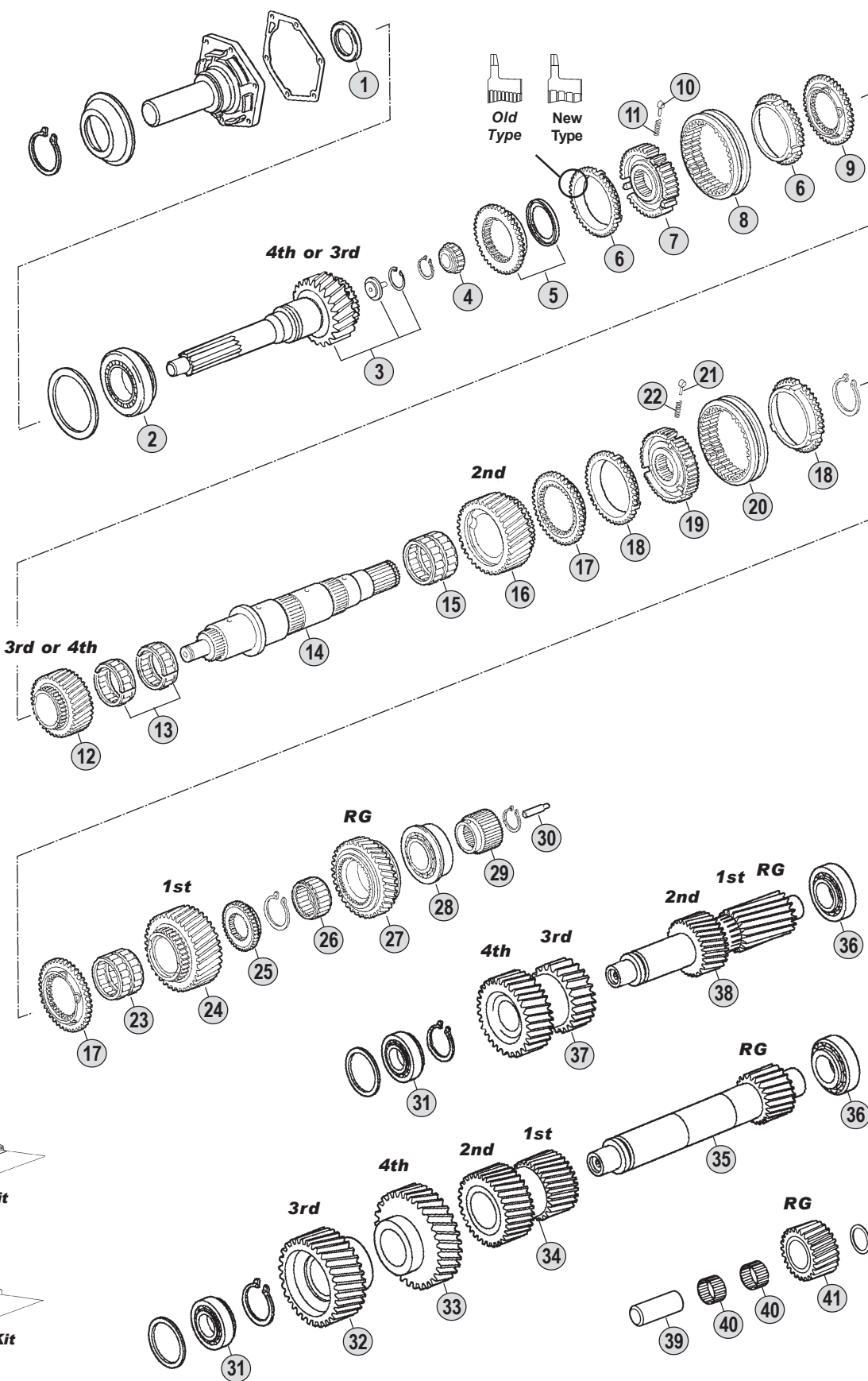
Ratio	Note
<b>6,38-0,76</b>	<b>A</b>
<b>8,73-1,00</b>	<b>B</b>

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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.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio	8S180 (1304)						
		ZF no.	SETRA no.											
1		0734 310 104		Oil Seal 52x68x8	1		●							
2	130.706	0750 117 518		Roller Bearing D.71,4x120x32,5	1		●							
3	102.348	1304 202 206		Input Shaft 29 T	1		●							
3	102.425	1304 202 207		Input shaft	1		●							
3	<b>102.361</b>	1304 202 208		Input Shaft 29 T	1		●							
3	102.426	1304 202 210		Input Shaft 29 T	1		●							
3	102.427	1304 202 211		Input Shaft 29 T	1		●							
3	102.349	1304 202 212		Input Shaft 29 T	1		●							
4	<b>137.150</b>	0750 117 232	99114220887	Roller Cage D.42x81x40,30	1		●							
5	<b>109.396</b>	1304 202 214		Synchronizer Cone	1		●							
6	119.219	1311 304 076		Synchronizer Ring	2	Old Type	●							
6	<b>119.220</b>	1311 304 255		Synchronizer Ring	2	New Type	●							
7	<b>157.702</b>	1304 304 651		Synchronizer Hub	1		●							
8	<b>154.363</b>	1304 304 664		Sliding Sleeve	1		●							
9	<b>109.395</b>	1304 302 425		Synchronizer Cone	1		●							
10	<b>160.189</b>	1297 304 436	89200221229	Pressure Piece	3		●							
11	<b>156.140</b>	0732 040 409	39022073100	Spring D.6,5x23,5	3		●							
12	<b>147.233</b>	1304 304 637		Gear 4th Speed 24 T	1		A	●						
12	<b>147.231</b>	1304 304 636		Gear 3rd Speed 29 T	1		B	●						
13	137.260	0750 115 430		Needle Cage 70x78x60	1		●							
14	<b>103.191</b>	1304 304 604		Main Shaft	1		●							
15	137.259	0735 320 378		Needle Cage 70x83x55	1		●							
16	<b>145.827</b>	1304 304 582		Gear 2nd Speed 29 T	1		A	●						
16	<b>145.825</b>	1304 304 581		Gear 2nd Speed 33 T	1		B	●						
17	<b>109.392</b>	1311 304 015		Synchronizer Cone	2		●							
18	119.118	1268 304 445		Synchronizer Ring	2	Old Type	●							
18	<b>119.142</b>	1268 304 594		Synchronizer Ring	2	New Type	●							
19	<b>157.700</b>	1304 304 576		Synchronizer Hub	1		●							
20	<b>154.200</b>	1304 304 597	89200221206	Sliding Sleeve	1		●							
21	<b>160.189</b>	1297 304 436	89200221229	Pressure Piece	3		●							
22	<b>156.140</b>	0732 040 409	39022073100	Spring D.6,5x23,5	3		●							
23	137.260	0750 115 430		Needle Cage 70x78x60	1		●							
24	<b>147.232</b>	1304 304 587		Gear 1st Speed 33 T	1		A	●						
24	<b>147.229</b>	1304 304 586		Gear 1st Speed 38 T	1		B	●						
25	<b>109.172</b>	1304 304 007	89200221119	Synchronizer Cone	1		●							
26	137.147	0750 115 225	89200220795	Needle Cage D.60x68x39	1		●							
27	<b>147.230</b>	1304 304 672		Reverse Gear 35 T	1		●							
28	130.684	0735 371 599		Roller Bearing D.50,8x104,7x36,	1		●							
29	<b>157.701</b>	1304 304 588		Sun Gear	1		●							
30	188.209	1312 304 150	89200221981	Oil Tube	1		●							
31	130.685	0735 371 096		Roller Bearing D.40x85x33	1		●							
32	<b>146.586</b>	1304 303 294		Gear 3rd Speed 31 T	1		A	●						
33	<b>147.234</b>	1304 303 293		Gear 4th Speed 34 T	1		A	●						
34	<b>143.121</b>	1304 303 292		Double Gear 19/23 T	1		A	●						
35	<b>105.186</b>	1304 303 291		Countershaft 16 T	1		A	●						

Notes

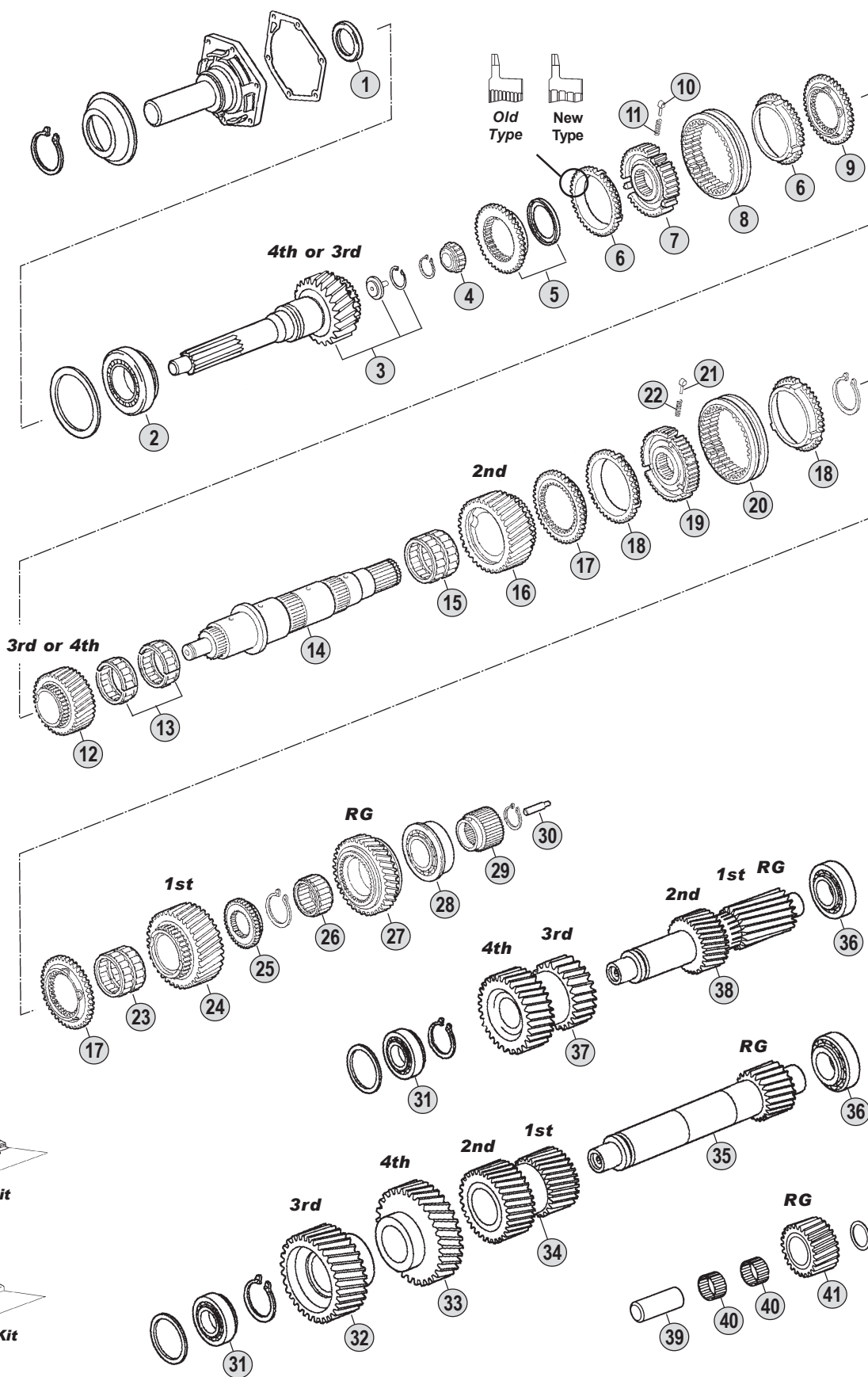
Date

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Table

0300 / A

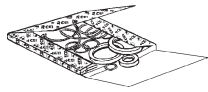
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**Kits**



**Gasket Kit  
43**



**Oil Seal Kit  
42**

**Ratios**

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

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8S180 (1304)

Fig.	CEI no.	O.E.M. Reference		Description	Q.ty	Note	Ratio				
		ZF no.	SETRA no.								
36	130.234	0750 117 083	880 22 10 6600	Bearing D.50,8x95,2x27,7	1			●			
37	<b>143.120</b>	1304 303 289		Double Gear 23/31 T	1		B	●			
38	<b>105.185</b>	1304 303 322		Countershaft 16/19 T	1		B	●			
39	107.156	1304 305 030	89200221066	Reverse Shaft	1			●			
40	137.143	0735 358 192		Needle Cage D.40x60x26	2			●			
41		1304 305 043		Reverse Gear 22 T	1			●			
42	<b>298.027</b>	1304 298 939		Oil Seal Kit	1			●			
43	<b>198.945</b>	1304 298 914		Gasket Kit	1			●			

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Notes

Date

07 / 2006

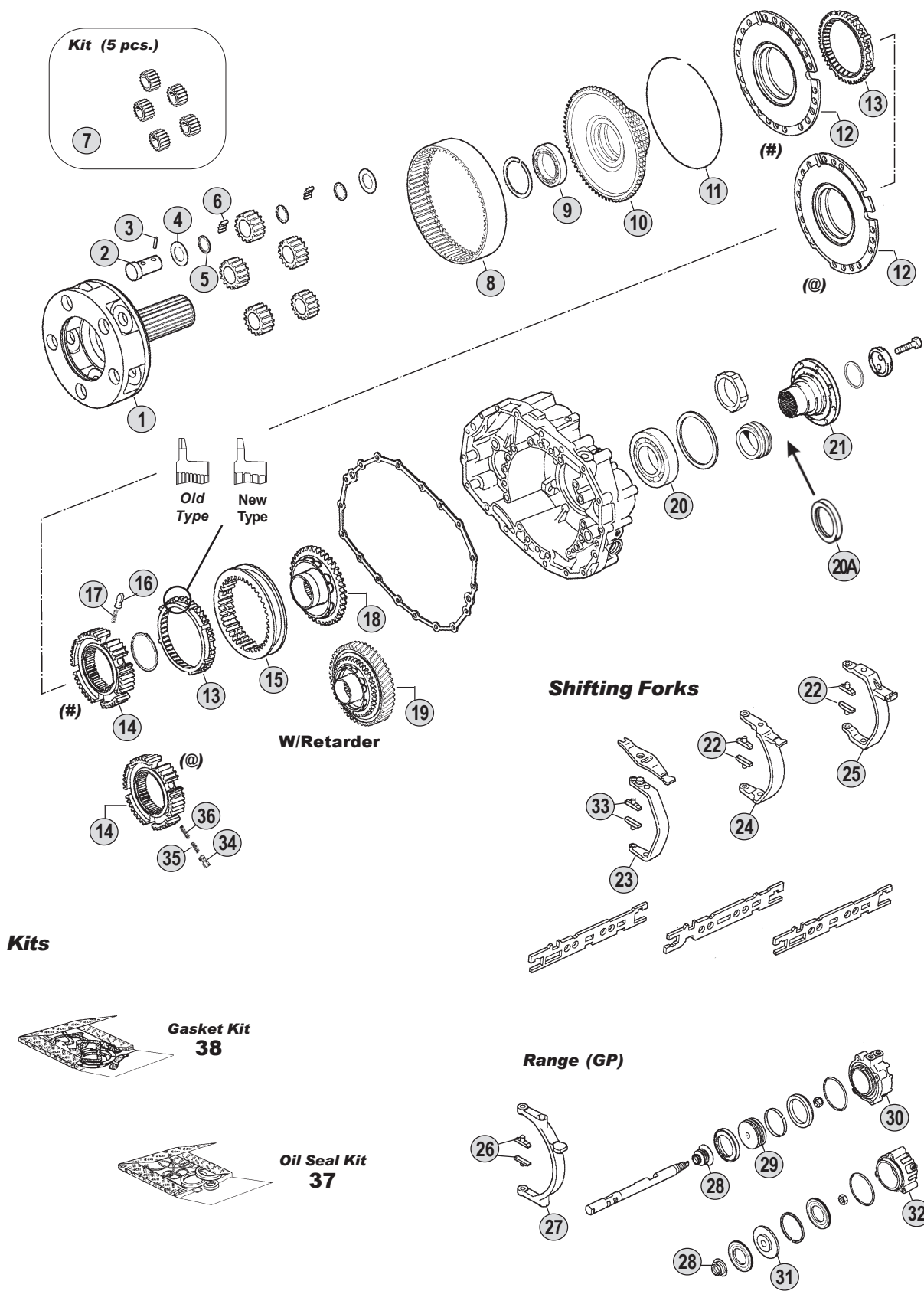
Table

**0300 / A**



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	89200221176	Planet Pin	5		●							
3	160.239	0631 329 037		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	89200221017	Roller D.5x15,30	200		●							
7	<b>298.019</b>	1304 232 051		Planetary Gear Set	1		●							
8	123.265	1304 332 122		Crown Gear 117 T	1		●							
9	130.265	0735 340 080	99112221688	Bearing D.70x90x10	1		(#)	●						
9	130.310	0750 116 165	99112221704	Bearing D.80x110x16	1		(@)	●						
10	150.163	1304 332 071		Carrier Hub	1		(#)	●						
10		1304 332 210		Carrier hub	1		(@)	●						
11	111.175	0730 505 053	99112221453	Locking Wire 2,50	1			●						
12	<b>198.817</b>	1304 233 005	89200221963	Synchronizer Cone	1		(#)	●						
12	<b>198.796</b>	1304 233 006		Synchronizer Cone	1		(@)	●						
13	<b>119.157</b>	1304 333 005	89200291033	Synchronizer Ring	2	Old Type	(#)	●						
13	119.171	1304 333 021		Synchronizer Ring	2	New Type	(#)	●						
13	<b>119.085</b>	1296 333 022		Synchronizer Ring	2	Old Type	(@)	●						
13	<b>119.172</b>	1296 333 045	99112221522	Synchronizer Ring	2	New Type	(@)	●						
14	<b>157.205</b>	1304 332 066	89200221029	Synchronizer Hub	1		(#)	●						
14	<b>157.182</b>	1313 333 001	281324200152	Synchronizer Hub	1		(@)	●						
15	<b>154.210</b>	1304 332 089	89200221034	Sliding sleeve	1		(#)	●						
15	<b>154.201</b>	1304 333 011		Sliding Sleeve	1		(@)	●						
16	<b>160.116</b>	1240 304 278	880 22 10 2800	Pressure Piece	6		(#)	●						
17	<b>156.037</b>	0732 040 385	88022102600	Outer Spring De.6x34	6		(#)	●						
18	<b>109.183</b>	1304 332 075		Synchronizer Cone	1		(#)	●						
18	<b>109.393</b>	1304 233 013		Synchronizer Cone	1		(@)	●						
19	109.397	1304 313 133		Synchronizer Cone	1	with retarder	(#)	●						
19	<b>109.173</b>	1304 232 085		Synchronizer Cone	1	with retarder	(@)	●						
20	130.690	0750 116 048		Roller Bearing D.78x130x25	1		(#)	●						
20		0750 116 197		Bearing D.80x140x26	1		(@)	●						
20A		0734 319 439		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		Output Flange	1	D.180-4H.	(#)	●						
21		1304 338 035		Output Flange	1	D.180-8H.	(#)	●						
21		1304 338 097		Output Flange	1	D.180-4H.	(@)	●						
22	141.194	1290 306 066	89200220851	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	<b>141.061</b>	1272 334 003	99112220787	Bronze Slide	2			●						
27		1304 334 039		Fork	1		(#)	●						

## Notes

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

## Date

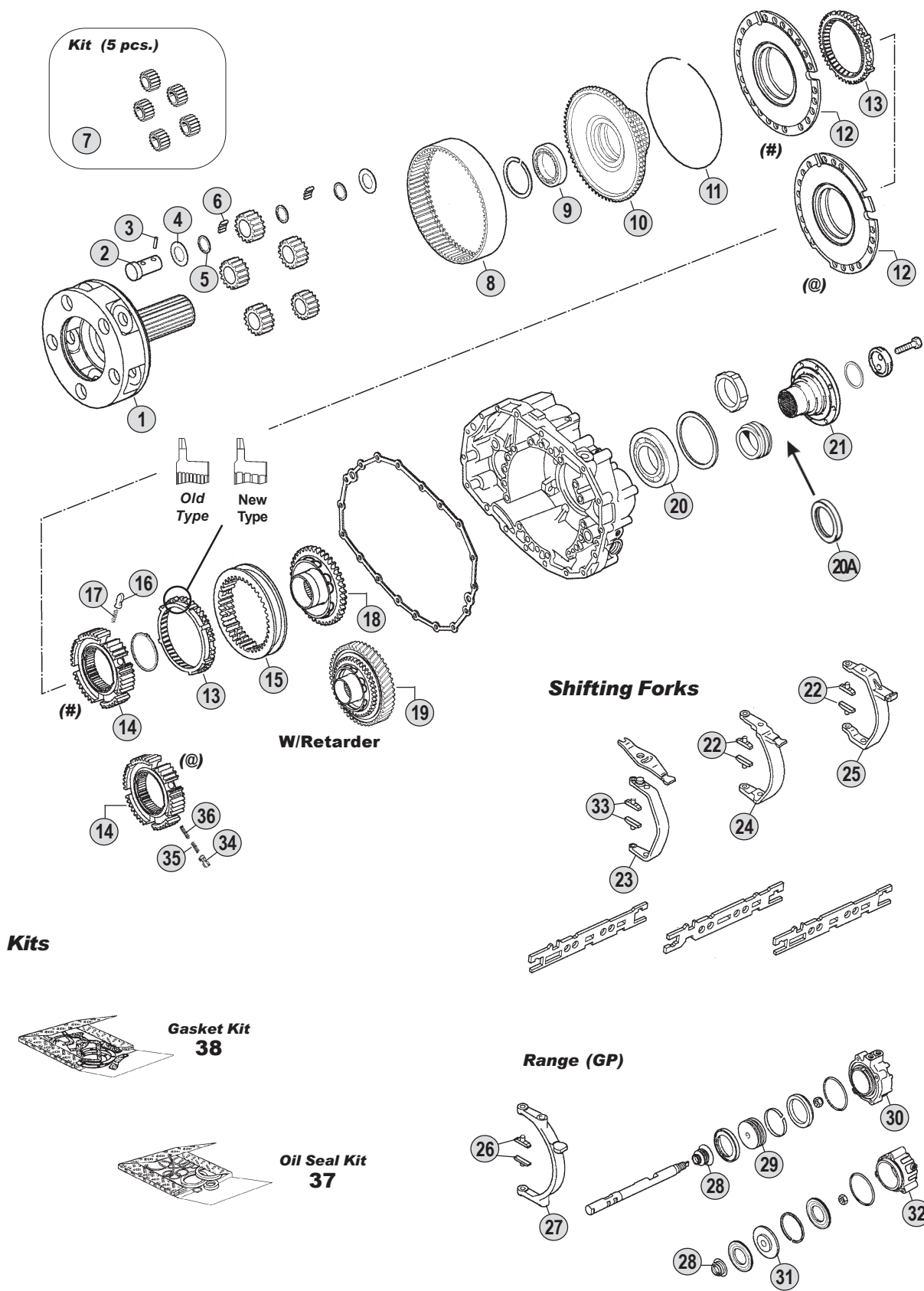
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## Table

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	<b>169.396</b>	MAN	0060B	4	0631 329 037	<b>160.239</b>	RVI	0145B	3	0730 103 102	<b>169.397</b>	MAN	0080B	5
0501 304 692	<b>169.396</b>	MAN	0070B	4	0631 329 037	<b>160.239</b>	RVI	0150B	3	0730 103 102	<b>169.397</b>	IVE	0100B	5
0501 304 692	<b>169.396</b>	MAN	0070B	11	0631 329 037	<b>160.239</b>	RVI	0150B	10	0730 103 102	<b>169.397</b>	IVE	0110B	5
0501 304 692	<b>169.396</b>	MAN	0080B	4	0631 329 037	<b>160.239</b>	RVI	0160B	3	0730 103 102	<b>169.397</b>	IVE	0110B	12
0501 304 692	<b>169.396</b>	IVE	0100B	4	0631 329 037	<b>160.239</b>	DAF	0200B	3	0730 103 102	<b>169.397</b>	IVE	0120B	5
0501 304 692	<b>169.396</b>	IVE	0110B	4	0631 329 037	<b>160.239</b>	DAF	0220B	3	0730 103 102	<b>169.397</b>	RVI	0145B	5
0501 304 692	<b>169.396</b>	IVE	0110B	11	0631 329 037	<b>160.239</b>	DAF	0220B	10	0730 103 102	<b>169.397</b>	RVI	0150B	5
0501 304 692	<b>169.396</b>	IVE	0120B	4	0631 329 037	<b>160.239</b>	DAF	0230B	3	0730 103 102	<b>169.397</b>	RVI	0150B	12
0501 304 692	<b>169.396</b>	RVI	0145B	4	0631 329 037	<b>160.239</b>	KAS	0300B	3	0730 103 102	<b>169.397</b>	RVI	0160B	5
0501 304 692	<b>169.396</b>	RVI	0150B	4	0631 329 047	See	0631 329 049			0730 103 102	<b>169.397</b>	DAF	0200B	5
0501 304 692	<b>169.396</b>	RVI	0150B	11	0631 329 049	<b>160.240</b>	MB	0020B	4	0730 103 102	<b>169.397</b>	DAF	0210B	6
0501 304 692	<b>169.396</b>	RVI	0160B	4	0631 329 049	<b>160.240</b>	DAF	0210B	4	0730 103 102	<b>169.397</b>	DAF	0220B	5
0501 304 692	<b>169.396</b>	DAF	0200B	4	0631 329 049	<b>160.240</b>	VOL	0260B	4	0730 103 102	<b>169.397</b>	DAF	0220B	12
0501 304 692	<b>169.396</b>	DAF	0220B	4	0631 329 127	<b>160.238</b>	MAN	0050B	3	0730 103 102	<b>169.397</b>	DAF	0230B	5
0501 304 692	<b>169.396</b>	DAF	0220B	11	0631 329 127	<b>160.238</b>	DAF	0190B	3	0730 103 102	<b>169.397</b>	VOL	0260B	6
0501 304 692	<b>169.396</b>	DAF	0230B	4	0631 329 127	<b>160.238</b>	KAS	0290B	3	0730 103 102	<b>169.397</b>	KAS	0300B	5
0501 304 692	<b>169.396</b>	KAS	0300B	4	0631 329 175	<b>160.241</b>	MB	0020B	3	0730 105 881	<b>269.004</b>	MAN	0050B	5
0501 309 496	<b>269.005</b>	MAN	0050B	4	0631 329 175	<b>160.241</b>	DAF	0210B	3	0730 105 881	<b>269.004</b>	DAF	0190B	5
0501 309 496	<b>269.005</b>	DAF	0190B	4	0631 329 175	<b>160.241</b>	VOL	0260B	3	0730 105 881	<b>269.004</b>	KAS	0290B	5
0501 309 496	<b>269.005</b>	KAS	0290B	4	0635 338 028	See	0735 340 080			0730 106 496	<b>269.007</b>	MB	0020A	31
0501 313 171	<b>269.011</b>	MB	00010	6	0635 338 049	See	0750 116 165			0730 106 496	<b>269.007</b>	DAF	0210A	31
0501 313 171	<b>269.011</b>	MAN	00030	6	0635 338 090	<b>130.689</b>	MB	0020B	10	0730 106 496	<b>269.007</b>	VOL	0260A	31
0501 313 171	<b>269.011</b>	IVE	00090	6	0635 338 090	<b>130.689</b>	DAF	0210B	10	0730 108 172	<b>269.008</b>	MB	0020A	12
0501 313 171	<b>269.011</b>	RVI	00130	6	0635 338 090	<b>130.689</b>	VOL	0260B	10	0730 108 172	<b>269.008</b>	DAF	0210A	12
0501 313 171	<b>269.011</b>	DAF	00170	6	0635 372 013	<b>130.783</b>	IVE	00083	32	0730 108 172	<b>269.008</b>	VOL	0260A	12
0501 313 171	<b>269.011</b>	VOL	00240	6	0635 372 013	<b>130.783</b>	RVI	00123	32	0730 150 767	<b>169.396</b>	MB	0020B	5
0501 313 171	<b>269.011</b>	KAS	00270	6	0635 374 002	<b>130.786</b>	IVE	00085	30	0730 150 767	<b>169.396</b>	DAF	0210B	5
0501 315 236		MAN	00040	6	0635 374 002	<b>130.786</b>	RVI	00125	30	0730 150 767	<b>169.396</b>	VOL	0260B	5
0501 315 236		RVI	00140	6	0635 460 006	<b>160.252</b>	IVE	00083	9	0730 150 767	See	0501 304 692		
0501 315 236		DAF	00180	6	0635 460 006	<b>160.252</b>	RVI	00123	9	0730 161 354	See	0735 295 119		
0501 315 236		VOL	00250	6	0635 460 006	<b>160.254</b>	IVE	00085	10	0730 161 689	See	0730 162 428		
0501 315 236		KAS	00280	6	0635 460 006	<b>160.254</b>	RVI	00125	10	0730 162 428	<b>117.379</b>	MB	0020A	15
0501 316 333	<b>139.752</b>	MB	0020B	27	0635 460 010	<b>171.014</b>	MB	0020A	9	0730 162 428	<b>117.379</b>	DAF	0210A	15
0501 316 333	<b>139.752</b>	DAF	0210B	27	0635 460 010	<b>171.014</b>	IVE	00085	21	0730 162 428	<b>117.379</b>	VOL	0260A	15
0501 316 333	<b>139.752</b>	VOL	0260B	27	0635 460 010	<b>171.014</b>	RVI	00125	21	0730 162 753		MAN	00040	16
0631 329 037	<b>160.239</b>	MAN	0060B	3	0635 460 010	<b>171.014</b>	DAF	0210A	9	0730 162 753		RVI	00140	16
0631 329 037	<b>160.239</b>	MAN	0070B	3	0635 460 010	<b>171.014</b>	VOL	0260A	9	0730 162 753		DAF	00180	16
0631 329 037	<b>160.239</b>	MAN	0070B	10	0635 501 398	See	1246 203 008			0730 162 753		VOL	00250	16
0631 329 037	<b>160.239</b>	MAN	0080B	3	0635 501 400	See	1246 203 007			0730 162 753		KAS	00280	16
0631 329 037	<b>160.239</b>	IVE	0100B	3	0730 103 102	<b>169.397</b>	MB	0020B	6	0730 162 806	See	0735 295 148		
0631 329 037	<b>160.239</b>	IVE	0110B	3	0730 103 102	<b>169.397</b>	MAN	0060B	5	0730 162 810	<b>117.407</b>	IVE	00085	23
0631 329 037	<b>160.239</b>	IVE	0110B	10	0730 103 102	<b>169.397</b>	MAN	0070B	5	0730 162 810	<b>117.407</b>	RVI	00125	23
0631 329 037	<b>160.239</b>	IVE	0120B	3	0730 103 102	<b>169.397</b>	MAN	0070B	12	0730 505 046	See	0730 505 053		

## Date

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## Table

## Index

Ref. ZF	Ref. CEI	OEM	Tav.	Fig.	Ref. ZF	Ref. CEI	OEM	Tav.	Fig.	Ref. ZF	Ref. CEI	OEM	Tav.	Fig.
0730 505 053	111.175	MAN	0050B	11	0732 040 385	156.037	RVI	0160B	17	0732 040 409	156.140	MAN	0070A	11
0730 505 053	111.175	MAN	0060B	11	0732 040 385	156.037	RVI	0160B	40	0732 040 409	156.140	MAN	0070A	22
0730 505 053	111.175	IVE	0100B	11	0732 040 385	156.037	DAF	0190B	17	0732 040 409	156.140	MAN	0080A	31
0730 505 053	111.175	RVI	0145B	11	0732 040 385	156.037	DAF	0200B	34	0732 040 409	156.140	IVE	00087	30
0730 505 053	111.175	DAF	0190B	11	0732 040 385	156.037	DAF	0220B	24	0732 040 409	156.140	IVE	00090	12
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0730 505 092	111.265	DAF	0230B	11	0732 040 385	156.037	KAS	0300B	17	0732 040 409	156.140	IVE	0110A	22
0730 505 140	111.264	MAN	0070B	18	0732 040 385	156.037	KAS	0300B	35	0732 040 409	156.140	IVE	0120A	31
0730 505 140	111.264	MAN	0080B	11	0732 040 386	156.036	MAN	0060B	36	0732 040 409	156.140	RVI	00130	12
0730 505 140	111.264	IVE	0110B	18	0732 040 386	156.036	MAN	0070B	44	0732 040 409	156.140	RVI	00130	24
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0732 040 385	156.037	RVI	0150B	24	0732 040 409	156.140	MAN	0050A	22	0732 040 409	156.140	VOL	0260B	18
0732 040 385	156.037	RVI	0150B	43	0732 040 409	156.140	MAN	0060A	11	0732 040 409	156.140	KAS	00270	12
0732 040 385	156.037	RVI	0160A	11	0732 040 409	156.140	MAN	0060A	22	0732 040 409	156.140	KAS	00270	24

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0732 040 409	156.140	KAS	00280	12	0734 319 439		DAF	0220B 28		0735 320 816	137.142	MAN	0050A	24
0732 040 409	156.140	KAS	0290A	11	0734 319 439		DAF	0230B 21		0735 320 816	137.142	MAN	0070A	24
0732 040 409	156.140	KAS	0290A	22	0734 319 439		KAS	0290B 20A		0735 320 816	137.142	MAN	0080A	4
0732 040 409	156.140	KAS	0300A	11	0734 319 439		KAS	0300B 20A		0735 320 816	137.142	MAN	0080A	22
0732 040 409	156.140	KAS	0300A	22	0735 295 119	117.409	MB	00005 5		0735 320 816	137.142	MAN	0080A	24
0732 041 571	156.178	MB	0020A	11	0735 295 119	117.409	MAN	00025 5		0735 320 816	137.142	IVE	0110A	24
0732 041 571	156.178	DAF	0210A	11	0735 295 119	117.409	IVE	00087 5		0735 320 816	137.142	IVE	0120A	4
0732 041 571	156.178	VOL	0260A	11	0735 295 119	117.409	DAF	00165 5		0735 320 816	137.142	IVE	0120A	22
0732 042 510	156.195	MB	00005 8		0735 295 148		MAN	00040 40		0735 320 816	137.142	IVE	0120A	24
0732 042 510	156.195	MAN	00025 8		0735 295 148		RVI	00140 40		0735 320 816	137.142	RVI	0150A	24
0732 042 510	156.195	IVE	00087 8		0735 295 148		DAF	00180 40		0735 320 816	137.142	RVI	0160A	4
0732 042 510	156.195	DAF	00165 8		0735 295 148		VOL	00250 40		0735 320 816	137.142	RVI	0160A	22
0734 309 377		MB	0020B 28		0735 295 148		KAS	00280 40		0735 320 816	137.142	RVI	0160A	24
0734 309 377		DAF	0210B 28		0735 298 254	137.298	IVE	00085 4		0735 320 816	137.142	DAF	0190A	24
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0734 310 104		MAN	0060A 1		0735 298 255	137.272	MB	00010 43		0735 320 816	137.142	DAF	0220A	24
0734 310 104		IVE	0100A 1		0735 298 255	137.272	MAN	00030 43		0735 320 816	137.142	DAF	0230A	4
0734 310 104		RVI	0145A 1		0735 298 255	137.272	IVE	00090 43		0735 320 816	137.142	DAF	0230A	22
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0735 321 106	137.270	KAS	00270	28	0735 321 494	137.264	MB	0020A	14	0735 330 597		DAF	0210B	20
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0735 321 392	137.275	RVI	00140	17	0735 321 528	137.306	IVE	00087	13	0735 340 080	130.265	MAN	0080B	9
0735 321 392	137.275	DAF	00180	17	0735 321 528	137.306	DAF	00165	13	0735 340 080	130.265	IVE	0100B	9
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0735 321 392	137.275	KAS	00280	17	0735 321 529	137.307	MAN	00025	21	0735 340 080	130.265	IVE	0120B	9
0735 321 394	137.277	MAN	00040	44	0735 321 529	137.307	IVE	00087	21	0735 340 080	130.265	RVI	0145B	9
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0735 358 192	137.143	RVI	0150A	42	0735 371 599	130.684	KAS	0300A	28	0735 470 115	171.044	MAN	0080B	6
0735 358 192	137.143	RVI	0160A	46	0735 371 605	130.315	MAN	0050A	34	0735 470 115	171.044	IVE	0100B	6
0735 358 192	137.143	DAF	0190A	44	0735 371 605	130.315	MAN	0070A	32	0735 470 115	171.044	IVE	0110B	6
0735 358 192	137.143	DAF	0200A	41	0735 371 605	130.315	MAN	0080A	36	0735 470 115	171.044	IVE	0110B	13
0735 358 192	137.143	DAF	0210A	41	0735 371 605	130.315	IVE	0110A	32	0735 470 115	171.044	IVE	0120B	6
0735 358 192	137.143	DAF	0220A	42	0735 371 605	130.315	IVE	0120A	36	0735 470 115	171.044	RVI	0145B	6
0735 358 192	137.143	DAF	0230A	46	0735 371 605	130.315	RVI	0150A	32	0735 470 115	171.044	RVI	0150B	6
0735 358 192	137.143	VOL	0260A	41	0735 371 605	130.315	RVI	0160A	36	0735 470 115	171.044	RVI	0150B	13
0735 358 192	137.143	KAS	0290A	44	0735 371 605	130.315	DAF	0190A	34	0735 470 115	171.044	RVI	0160B	6
0735 358 192	137.143	KAS	0300A	40	0735 371 605	130.315	DAF	0200A	31	0735 470 115	171.044	DAF	0200B	6
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0735 370 297	See	0750 117 518			0735 371 605	130.315	DAF	0230A	36	0735 470 115	171.044	DAF	0220B	13
0735 370 438	130.790	MB	00005	46	0735 371 605	130.315	KAS	0290A	34	0735 470 115	171.044	DAF	0230B	6
0735 370 438	130.790	MAN	00025	46	0735 371 607	130.789	MB	00005	40	0735 470 115	171.044	KAS	0300B	6
0735 370 438	130.790	IVE	00087	46	0735 371 607	130.789	MAN	00025	40	0735 470 155	171.038	MB	0020B	7
0735 370 438	130.790	DAF	00165	46	0735 371 607	130.789	IVE	00087	40	0735 470 155	171.038	DAF	0210B	7
0735 370 462		MAN	0050A	2	0735 371 607	130.789	DAF	00165	40	0735 470 155	171.038	VOL	0260B	7
0735 370 462		DAF	0190A	2	0735 371 748	130.683	MAN	0050A	4	0750 111 149	139.753	MB	00010	1
0735 370 462		KAS	0290A	2	0735 371 748	130.683	MAN	0070A	4	0750 111 149	139.753	MB	0020A	1
0735 370 463	See	0735 371 749			0735 371 748	130.683	IVE	0110A	4	0750 111 149	139.753	MAN	00030	1
0735 370 728	See	0750 117 347			0735 371 748	130.683	RVI	0150A	4	0750 111 149	139.753	MAN	0050A	1
0735 370 730	130.705	MB	00010	45	0735 371 748	130.683	DAF	0190A	4	0750 111 149	139.753	MAN	0070A	1
0735 370 730	130.705	MAN	00030	45	0735 371 748	130.683	DAF	0200A	4	0750 111 149	139.753	MAN	0080A	1
0735 370 730	130.705	IVE	00090	45	0735 371 748	130.683	DAF	0220A	4	0750 111 149	139.753	IVE	00090	1
0735 370 730	130.705	RVI	00130	45	0735 371 748	130.683	KAS	0290A	4	0750 111 149	139.753	IVE	0110A	1
0735 370 730	130.705	DAF	00170	45	0735 371 749	130.314	MAN	0050A	37	0750 111 149	139.753	IVE	0120A	1
0735 370 730	130.705	VOL	00240	45	0735 371 749	130.314	MAN	0070A	35	0750 111 149	139.753	RVI	00130	1
0735 370 730	130.705	KAS	00270	45	0735 371 749	130.314	MAN	0080A	39	0750 111 149	139.753	RVI	0150A	1
0735 370 742	130.688	MB	0020A	34	0735 371 749	130.314	IVE	0110A	35	0750 111 149	139.753	RVI	0160A	1
0735 370 742	130.688	DAF	0210A	34	0735 371 749	130.314	IVE	0120A	39	0750 111 149	139.753	DAF	00170	1
0735 370 742	130.688	VOL	0260A	34	0735 371 749	130.314	RVI	0150A	35	0750 111 149	139.753	DAF	0190A	1
0735 371 096	130.685	MAN	0060A	31	0735 371 749	130.314	RVI	0160A	39	0750 111 149	139.753	DAF	0200A	1
0735 371 096	130.685	IVE	0100A	31	0735 371 749	130.314	DAF	0190A	37	0750 111 149	139.753	DAF	0210A	1
0735 371 096	130.685	RVI	0145A	31	0735 371 749	130.314	DAF	0200A	34	0750 111 149	139.753	DAF	0220A	1
0735 371 096	130.685	KAS	0300A	31	0735 371 749	130.314	DAF	0220A	35	0750 111 149	139.753	DAF	0230A	1
0735 371 375	See	0750 117 562			0735 371 749	130.314	DAF	0230A	39	0750 111 149	139.753	VOL	00240	1
0735 371 406	137.144	MAN	0080A	12	0735 371 749	130.314	KAS	0290A	37	0750 111 149	139.753	VOL	0260A	1
0735 371 406	137.144	IVE	0120A	12	0735 470 016	171.061	MAN	0050B	6	0750 111 149	139.753	KAS	00270	1
0735 371 406	137.144	RVI	0160A	12	0735 470 016	171.061	DAF	0190B	6	0750 111 149	139.753	KAS	0290A	1
0735 371 406	137.144	DAF	0230A	12	0735 470 016	171.061	KAS	0290B	6	0750 111 317	See	0734 319 439		
0735 371 599	130.684	MAN	0060A	28	0735 470 115	171.044	MAN	0060B	6	0750 111 334		MB	0020B 20A	
0735 371 599	130.684	IVE	0100A	28	0735 470 115	171.044	MAN	0070B	6	0750 111 334		DAF	0210B 20A	

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0750 111 334		VOL	0260B	20A	0750 115 225	137.147	RVI	0145A	26	0750 115 430	137.260	IVE	0100A	23
0750 112 047		MAN	0050B	28	0750 115 225	137.147	RVI	0150A	30	0750 115 430	137.260	RVI	0145A	13
0750 112 047		MAN	0060B	28	0750 115 225	137.147	RVI	0160A	34	0750 115 430	137.260	RVI	0145A	23
0750 112 047		MAN	0070B	36	0750 115 225	137.147	DAF	0190A	32	0750 115 430	137.260	KAS	0300A	13
0750 112 047		MAN	0070B	39	0750 115 225	137.147	DAF	0200A	29	0750 115 430	137.260	KAS	0300A	23
0750 112 047		MAN	0080B	28	0750 115 225	137.147	DAF	0220A	30	0750 115 512	137.295	IVE	00083	23
0750 112 047		MAN	0080B	33	0750 115 225	137.147	DAF	0230A	34	0750 115 512	137.295	RVI	00123	23
0750 112 047		MAN	0080B	36	0750 115 225	137.147	KAS	0290A	32	0750 115 529	137.294	IVE	00083	16
0750 112 047		IVE	0100B	28	0750 115 225	137.147	KAS	0300A	26	0750 115 529	137.294	RVI	00123	16
0750 112 047		IVE	0110B	36	0750 115 227	137.074	MAN	0050A	15	0750 115 533	137.262	MB	0020A	29
0750 112 047		IVE	0110B	39	0750 115 227	137.074	MAN	0070A	15	0750 115 533	137.262	DAF	0210A	29
0750 112 047		IVE	0120B	28	0750 115 227	137.074	IVE	0110A	15	0750 115 533	137.262	VOL	0260A	29
0750 112 047		IVE	0120B	33	0750 115 227	137.074	RVI	0150A	15	0750 115 539	137.292	IVE	00083	4
0750 112 047		IVE	0120B	36	0750 115 227	137.074	DAF	0190A	15	0750 115 539	137.292	RVI	00123	4
0750 112 047		RVI	0145B	28	0750 115 227	137.074	DAF	0200A	15	0750 115 540	137.296	IVE	00083	27
0750 112 047		RVI	0150B	36	0750 115 227	137.074	DAF	0220A	15	0750 115 540	137.296	RVI	00123	27
0750 112 047		RVI	0150B	39	0750 115 227	137.074	KAS	0290A	15	0750 115 542	137.297	IVE	00083	37
0750 112 047		RVI	0160B	28	0750 115 229	See	0735 358 192			0750 115 542	137.297	RVI	00123	37
0750 112 047		RVI	0160B	33	0750 115 233	137.273	MB	00010	54	0750 115 546	137.293	IVE	00083	12
0750 112 047		RVI	0160B	36	0750 115 233	137.273	MAN	00030	54	0750 115 546	137.293	RVI	00123	12
0750 112 047		DAF	0190B	28	0750 115 233	137.273	MAN	00040	54	0750 116 048	130.690	MAN	0050B	20
0750 112 047		DAF	0200B	28	0750 115 233	137.273	IVE	00085	40	0750 116 048	130.690	MAN	0060B	20
0750 112 047		DAF	0220B	36	0750 115 233	137.273	IVE	00090	54	0750 116 048	130.690	MAN	0070B	27
0750 112 047		DAF	0220B	39	0750 115 233	137.273	RVI	00125	40	0750 116 048	130.690	MAN	0080B	20
0750 112 047		DAF	0230B	28	0750 115 233	137.273	RVI	00130	54	0750 116 048	130.690	IVE	0100B	20
0750 112 047		DAF	0230B	33	0750 115 233	137.273	RVI	00140	54	0750 116 048	130.690	IVE	0110B	27
0750 112 047		DAF	0230B	36	0750 115 233	137.273	DAF	00170	54	0750 116 048	130.690	IVE	0120B	20
0750 112 047		KAS	0290B	28	0750 115 233	137.273	DAF	00180	54	0750 116 048	130.690	RVI	0145B	20
0750 112 047		KAS	0300B	28	0750 115 233	137.273	VOL	00240	54	0750 116 048	130.690	RVI	0150B	27
0750 115 012	See	0735 320 500			0750 115 233	137.273	VOL	00250	54	0750 116 048	130.690	RVI	0160B	20
0750 115 135	See	0735 358 128			0750 115 233	137.273	KAS	00270	54	0750 116 048	130.690	DAF	0190B	20
0750 115 223	See	0750 115 299			0750 115 233	137.273	KAS	00280	54	0750 116 048	130.690	DAF	0200B	20
0750 115 224	137.146	MAN	0080A	34A	0750 115 298	See	0750 115 533			0750 116 048	130.690	DAF	0220B	27
0750 115 224	137.146	IVE	0120A	34A	0750 115 299	137.145	MAN	0080A	13	0750 116 048	130.690	DAF	0230B	20
0750 115 224	137.146	RVI	0160A	34A	0750 115 299	137.145	IVE	0120A	13	0750 116 048	130.690	KAS	0290B	20
0750 115 224	137.146	DAF	0230A	34A	0750 115 299	137.145	RVI	0160A	13	0750 116 048	130.690	KAS	0300B	20
0750 115 225	137.147	MAN	0050A	32	0750 115 299	137.145	DAF	0230A	13	0750 116 165	130.310	MAN	0060B	9
0750 115 225	137.147	MAN	0060A	26	0750 115 427	137.261	MB	0020A	25	0750 116 165	130.310	MAN	0070B	16
0750 115 225	137.147	MAN	0070A	30	0750 115 427	137.261	DAF	0210A	25	0750 116 165	130.310	MAN	0080B	9
0750 115 225	137.147	MAN	0080A	34	0750 115 427	137.261	VOL	0260A	25	0750 116 165	130.310	IVE	0100B	9
0750 115 225	137.147	IVE	0100A	26	0750 115 430	137.260	MAN	0060A	13	0750 116 165	130.310	IVE	0110B	16
0750 115 225	137.147	IVE	0110A	30	0750 115 430	137.260	MAN	0060A	23	0750 116 165	130.310	IVE	0120B	9
0750 115 225	137.147	IVE	0120A	34	0750 115 430	137.260	IVE	0100A	13	0750 116 165	130.310	RVI	0145B	9

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0750 116 165	130.310	RVI	0150B	16	0750 117 083	130.234	MAN	0070A	40	0750 117 347	130.704	RVI	00130	2
0750 116 165	130.310	RVI	0160B	9	0750 117 083	130.234	MAN	0080A	44	0750 117 347	130.704	DAF	00170	2
0750 116 165	130.310	DAF	0200B	9	0750 117 083	130.234	IVE	00090	47	0750 117 347	130.704	VOL	00240	2
0750 116 165	130.310	DAF	0220B	16	0750 117 083	130.234	IVE	0100A	36	0750 117 347	130.704	KAS	00270	2
0750 116 165	130.310	DAF	0230B	9	0750 117 083	130.234	IVE	0110A	40	0750 117 507	See	0735 371 748		
0750 116 165	130.310	KAS	0300B	9	0750 117 083	130.234	IVE	0120A	44	0750 117 518	130.706	MAN	00040	2
0750 116 197		MAN	0060B	20	0750 117 083	130.234	RVI	00130	47	0750 117 518	130.706	MAN	00040	46
0750 116 197		MAN	0070B	27	0750 117 083	130.234	RVI	00140	47	0750 117 518	130.706	MAN	0060A	2
0750 116 197		MAN	0080B	20	0750 117 083	130.234	RVI	0145A	36	0750 117 518	130.706	IVE	0100A	2
0750 116 197		IVE	0100B	20	0750 117 083	130.234	RVI	0150A	40	0750 117 518	130.706	RVI	00140	2
0750 116 197		IVE	0110B	27	0750 117 083	130.234	RVI	0160A	44	0750 117 518	130.706	RVI	00140	46
0750 116 197		IVE	0120B	20	0750 117 083	130.234	DAF	00170	47	0750 117 518	130.706	RVI	0145A	2
0750 116 197		RVI	0145B	20	0750 117 083	130.234	DAF	00180	47	0750 117 518	130.706	DAF	00180	2
0750 116 197		RVI	0150B	27	0750 117 083	130.234	DAF	0190A	42	0750 117 518	130.706	DAF	00180	46
0750 116 197		RVI	0160B	20	0750 117 083	130.234	DAF	0200A	39	0750 117 518	130.706	VOL	00250	2
0750 116 197		DAF	0220B	27	0750 117 083	130.234	DAF	0220A	40	0750 117 518	130.706	VOL	00250	46
0750 116 197		DAF	0230B	20	0750 117 083	130.234	DAF	0230A	44	0750 117 518	130.706	KAS	00280	2
0750 116 197		KAS	0300B	20	0750 117 083	130.234	VOL	00240	47	0750 117 518	130.706	KAS	00280	46
0750 116 323	130.781	IVE	00083	2	0750 117 083	130.234	VOL	00250	47	0750 117 518	130.706	KAS	0300A	2
0750 116 323	130.781	RVI	00123	2	0750 117 083	130.234	KAS	00270	47	0750 117 562		MB	00010	4
0750 116 368	130.782	IVE	00083	29	0750 117 083	130.234	KAS	00280	47	0750 117 562		MAN	00030	4
0750 116 368	130.782	RVI	00123	29	0750 117 083	130.234	KAS	0290A	42	0750 117 562		IVE	00090	4
0750 116 373	130.788	MB	00005	39	0750 117 083	130.234	KAS	0300A	36	0750 117 562		RVI	00130	4
0750 116 373	130.788	MAN	00025	39	0750 117 083	See	1246 203 007			0750 117 562		DAF	00170	4
0750 116 373	130.788	IVE	00087	39	0750 117 198	130.687	MB	0020A	39	0750 117 562		VOL	00240	4
0750 116 373	130.788	DAF	00165	39	0750 117 198	130.687	DAF	0210A	39	0750 117 562		KAS	00270	4
0750 117 079	130.313	MAN	0050A	2	0750 117 198	130.687	VOL	0260A	39	0750 119 131		MAN	00040	43
0750 117 079	130.313	MAN	0070A	2	0750 117 199	See	0735 371 607			0750 119 131		RVI	00140	43
0750 117 079	130.313	MAN	0080A	2	0750 117 232	<b>137.150</b>	MAN	00040	4	0750 119 131		DAF	00180	43
0750 117 079	130.313	IVE	0110A	2	0750 117 232	<b>137.150</b>	MAN	0060A	4	0750 119 131		VOL	00250	43
0750 117 079	130.313	IVE	0120A	2	0750 117 232	<b>137.150</b>	IVE	0100A	4	0750 119 131		KAS	00280	43
0750 117 079	130.313	RVI	0150A	2	0750 117 232	<b>137.150</b>	RVI	00140	4	0770 060 784	156.193	IVE	00085	8
0750 117 079	130.313	RVI	0160A	2	0750 117 232	<b>137.150</b>	RVI	0145A	4	0770 060 784	156.193	RVI	00125	8
0750 117 079	130.313	DAF	0190A	2	0750 117 232	<b>137.150</b>	DAF	00180	4	0770 060 816	156.194	IVE	00085	19
0750 117 079	130.313	DAF	0200A	2	0750 117 232	<b>137.150</b>	VOL	00250	4	0770 060 816	156.194	RVI	00125	19
0750 117 079	130.313	DAF	0220A	2	0750 117 232	<b>137.150</b>	KAS	00280	4	1052 304 117	160.255	IVE	00085	20
0750 117 079	130.313	DAF	0230A	2	0750 117 232	<b>137.150</b>	KAS	0300A	4	1052 304 117	160.255	RVI	00125	20
0750 117 079	130.313	KAS	0290A	2	0750 117 312	130.686	MB	0020A	2	1053 303 127	160.253	IVE	00085	9
0750 117 083	130.234	MB	00010	47	0750 117 312	130.686	DAF	0210A	2	1053 303 127	160.253	RVI	00125	9
0750 117 083	130.234	MAN	00030	47	0750 117 312	130.686	VOL	0260A	2	1065 303 001	119.261	IVE	00085	5
0750 117 083	130.234	MAN	00040	47	0750 117 347	130.704	MB	00010	2	1065 303 001	119.261	RVI	00125	5
0750 117 083	130.234	MAN	0050A	42	0750 117 347	130.704	MAN	00030	2	1238 304 394	<b>188.096</b>	MAN	0050A	9
0750 117 083	130.234	MAN	0060A	36	0750 117 347	130.704	IVE	00090	2	1238 304 394	<b>188.096</b>	MAN	0070A	9

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1238 304 394	<b>188.096</b>	MAN	0080A	19	1240 304 278	<b>160.116</b>	DAF	0220B	42	1268 304 424	<b>119.152</b>	DAF	00180	29
1238 304 394	<b>188.096</b>	IVE	0110A	9	1240 304 278	<b>160.116</b>	DAF	0230A	9	1268 304 424	<b>119.152</b>	VOL	00240	32
1238 304 394	<b>188.096</b>	IVE	0120A	19	1240 304 278	<b>160.116</b>	DAF	0230B	16	1268 304 424	<b>119.152</b>	VOL	00250	29
1238 304 394	<b>188.096</b>	RVI	0150A	9	1240 304 278	<b>160.116</b>	DAF	0230B	39	1268 304 424	<b>119.152</b>	KAS	00270	32
1238 304 394	<b>188.096</b>	RVI	0160A	19	1240 304 278	<b>160.116</b>	KAS	0290B	16	1268 304 424	<b>119.152</b>	KAS	00280	29
1238 304 394	<b>188.096</b>	DAF	0190A	9	1240 304 278	<b>160.116</b>	KAS	0300B	16	1268 304 445	<i>119.118</i>	MB	0020B	14
1238 304 394	<b>188.096</b>	DAF	0200A	9	1240 304 278	<b>160.116</b>	KAS	0300B	34	1268 304 445	<i>119.118</i>	MAN	00040	7
1238 304 394	<b>188.096</b>	DAF	0220A	9	1246 203 008	<i>130.233</i>	MB	00010	53	1268 304 445	<i>119.118</i>	MAN	0060A	18
1238 304 394	<b>188.096</b>	DAF	0230A	19	1246 203 008	<i>130.233</i>	MB	0020A	32	1268 304 445	<i>119.118</i>	IVE	0100A	18
1238 304 394	<b>188.096</b>	KAS	0290A	9	1246 203 008	<i>130.233</i>	MAN	00030	53	1268 304 445	<i>119.118</i>	RVI	00140	7
1238 304 420	<b>119.072</b>	MAN	0050A	29	1246 203 008	<i>130.233</i>	MAN	00040	53	1268 304 445	<i>119.118</i>	RVI	0145A	18
1238 304 420	<b>119.072</b>	DAF	0190A	29	1246 203 008	<i>130.233</i>	IVE	00090	53	1268 304 445	<i>119.118</i>	DAF	00180	7
1238 304 420	<b>119.072</b>	KAS	0290A	29	1246 203 008	<i>130.233</i>	RVI	00130	53	1268 304 445	<i>119.118</i>	DAF	0210B	14
1240 304 205	See	1240 304 272			1246 203 008	<i>130.233</i>	RVI	00140	53	1268 304 445	<i>119.118</i>	VOL	00250	7
1240 304 272	<b>154.064</b>	MAN	0080A	8	1246 203 008	<i>130.233</i>	DAF	00170	53	1268 304 445	<i>119.118</i>	VOL	0260B	14
1240 304 272	<b>154.064</b>	IVE	0120A	8	1246 203 008	<i>130.233</i>	DAF	00180	53	1268 304 445	<i>119.118</i>	KAS	00280	7
1240 304 272	<b>154.064</b>	RVI	0160A	8	1246 203 008	<i>130.233</i>	DAF	0210A	32	1268 304 445	<i>119.118</i>	KAS	0300A	18
1240 304 272	<b>154.064</b>	DAF	0230A	8	1246 203 008	<i>130.233</i>	VOL	00240	53	1268 304 476	See	1312 304 159		
1240 304 278	<b>160.116</b>	MAN	0050B	16	1246 203 008	<i>130.233</i>	VOL	00250	53	1268 304 491	See	1268 304 494		
1240 304 278	<b>160.116</b>	MAN	0060B	16	1246 203 008	<i>130.233</i>	VOL	0260A	32	1268 304 494	<b>119.153</b>	MB	00010	33
1240 304 278	<b>160.116</b>	MAN	0060B	34	1246 203 008	<i>130.233</i>	KAS	00270	53	1268 304 494	<b>119.153</b>	MAN	00030	33
1240 304 278	<b>160.116</b>	MAN	0070B	23	1246 203 008	<i>130.233</i>	KAS	00280	53	1268 304 494	<b>119.153</b>	MAN	00040	30
1240 304 278	<b>160.116</b>	MAN	0070B	42	1249 304 215	See	1249 304 222			1268 304 494	<b>119.153</b>	IVE	00090	33
1240 304 278	<b>160.116</b>	MAN	0080A	9	1249 304 222	<b>160.143</b>	MAN	0050A	10	1268 304 494	<b>119.153</b>	RVI	00130	33
1240 304 278	<b>160.116</b>	MAN	0080B	16	1249 304 222	<b>160.143</b>	MAN	0070A	10	1268 304 494	<b>119.153</b>	RVI	00140	30
1240 304 278	<b>160.116</b>	MAN	0080B	39	1249 304 222	<b>160.143</b>	MAN	0080A	20	1268 304 494	<b>119.153</b>	DAF	00170	33
1240 304 278	<b>160.116</b>	IVE	0100B	16	1249 304 222	<b>160.143</b>	IVE	0110A	10	1268 304 494	<b>119.153</b>	DAF	00180	30
1240 304 278	<b>160.116</b>	IVE	0100B	34	1249 304 222	<b>160.143</b>	IVE	0120A	20	1268 304 494	<b>119.153</b>	VOL	00240	33
1240 304 278	<b>160.116</b>	IVE	0110B	23	1249 304 222	<b>160.143</b>	RVI	0150A	10	1268 304 494	<b>119.153</b>	VOL	00250	30
1240 304 278	<b>160.116</b>	IVE	0110B	42	1249 304 222	<b>160.143</b>	RVI	0160A	20	1268 304 494	<b>119.153</b>	KAS	00270	33
1240 304 278	<b>160.116</b>	IVE	0120A	9	1249 304 222	<b>160.143</b>	DAF	0190A	10	1268 304 494	<b>119.153</b>	KAS	00280	30
1240 304 278	<b>160.116</b>	IVE	0120B	16	1249 304 222	<b>160.143</b>	DAF	0200A	10	1268 304 510	See	1297 304 436		
1240 304 278	<b>160.116</b>	IVE	0120B	39	1249 304 222	<b>160.143</b>	DAF	0220A	10	1268 304 511	See	1297 304 437		
1240 304 278	<b>160.116</b>	RVI	0145B	16	1249 304 222	<b>160.143</b>	DAF	0230A	20	1268 304 525	<b>119.144</b>	MB	00010	34
1240 304 278	<b>160.116</b>	RVI	0145B	34	1249 304 222	<b>160.143</b>	KAS	0290A	10	1268 304 525	<b>119.144</b>	MAN	00030	34
1240 304 278	<b>160.116</b>	RVI	0150B	23	1250 306 148	See	1272 334 003			1268 304 525	<b>119.144</b>	MAN	00040	31
1240 304 278	<b>160.116</b>	RVI	0150B	42	1268 304 424	<b>119.152</b>	MB	00010	32	1268 304 525	<b>119.144</b>	IVE	00090	34
1240 304 278	<b>160.116</b>	RVI	0160A	9	1268 304 424	<b>119.152</b>	MAN	00030	32	1268 304 525	<b>119.144</b>	RVI	00130	34
1240 304 278	<b>160.116</b>	RVI	0160B	16	1268 304 424	<b>119.152</b>	MAN	00040	29	1268 304 525	<b>119.144</b>	RVI	00140	31
1240 304 278	<b>160.116</b>	RVI	0160B	39	1268 304 424	<b>119.152</b>	IVE	00090	32	1268 304 525	<b>119.144</b>	DAF	00170	34
1240 304 278	<b>160.116</b>	DAF	0190B	16	1268 304 424	<b>119.152</b>	RVI	00130	32	1268 304 525	<b>119.144</b>	DAF	00180	31
1240 304 278	<b>160.116</b>	DAF	0200B	33	1268 304 424	<b>119.152</b>	RVI	00140	29	1268 304 525	<b>119.144</b>	VOL	00240	34
1240 304 278	<b>160.116</b>	DAF	0220B	23	1268 304 424	<b>119.152</b>	DAF	00170	32	1268 304 525	<b>119.144</b>	VOL	00250	31

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1268 304 525	<b>119.144</b>	KAS	00270	34	1290 203 043	See	1290 203 039			1290 303 199	<b>146.662</b>	IVE	00087	42
1268 304 525	<b>119.144</b>	KAS	00280	31	1290 302 465	<b>102.420</b>	MB	00005	2	1290 303 199	<b>146.662</b>	DAF	00165	42
1268 304 594	<b>119.142</b>	MB	0020B	14	1290 302 465	<b>102.420</b>	MAN	00025	2	1290 303 200	<b>146.661</b>	MB	00005	41
1268 304 594	<b>119.142</b>	MAN	00040	7	1290 302 465	<b>102.420</b>	IVE	00087	2	1290 303 200	<b>146.661</b>	MAN	00025	41
1268 304 594	<b>119.142</b>	MAN	0060A	18	1290 302 465	<b>102.420</b>	DAF	00165	2	1290 303 200	<b>146.661</b>	IVE	00087	41
1268 304 594	<b>119.142</b>	IVE	0100A	18	1290 302 471	102.423	MB	00005	2	1290 303 200	<b>146.661</b>	DAF	00165	41
1268 304 594	<b>119.142</b>	RVI	00140	7	1290 302 471	102.423	MAN	00025	2	1290 303 202	146.666	MB	00005	44
1268 304 594	<b>119.142</b>	RVI	0145A	18	1290 302 471	102.423	IVE	00087	2	1290 303 202	146.666	MAN	00025	44
1268 304 594	<b>119.142</b>	DAF	00180	7	1290 302 471	102.423	DAF	00165	2	1290 303 202	146.666	IVE	00087	44
1268 304 594	<b>119.142</b>	DAF	0210B	14	1290 302 472	102.424	MB	00005	2	1290 303 202	146.666	DAF	00165	44
1268 304 594	<b>119.142</b>	VOL	00250	7	1290 302 472	102.424	MAN	00025	2	1290 303 203	146.667	MB	00005	41
1268 304 594	<b>119.142</b>	VOL	0260B	14	1290 302 472	102.424	IVE	00087	2	1290 303 203	146.667	MAN	00025	41
1268 304 594	<b>119.142</b>	KAS	00280	7	1290 302 472	102.424	DAF	00165	2	1290 303 203	146.667	IVE	00087	41
1268 304 594	<b>119.142</b>	KAS	0300A	18	1290 302 474	102.421	MB	00005	2	1290 303 203	146.667	DAF	00165	41
1268 312 057	141.146	MAN	0080B	27	1290 302 474	102.421	MAN	00025	2	1290 303 204	146.668	MB	00005	42
1268 312 057	141.146	IVE	0120B	27	1290 302 474	102.421	IVE	00087	2	1290 303 204	146.668	MAN	00025	42
1268 312 057	141.146	RVI	0160B	27	1290 302 474	102.421	DAF	00165	2	1290 303 204	146.668	IVE	00087	42
1268 312 057	141.146	DAF	0230B	27	1290 302 478	<b>102.419</b>	MB	00005	2	1290 303 204	146.668	DAF	00165	42
1272 334 003	<b>141.061</b>	MAN	0050B	26	1290 302 478	<b>102.419</b>	MAN	00025	2	1290 304 056	117.410	MB	00005	38
1272 334 003	<b>141.061</b>	MAN	0060B	26	1290 302 478	<b>102.419</b>	IVE	00087	2	1290 304 056	117.410	MAN	00025	38
1272 334 003	<b>141.061</b>	MAN	0070B	34	1290 302 478	<b>102.419</b>	DAF	00165	2	1290 304 056	117.410	IVE	00087	38
1272 334 003	<b>141.061</b>	MAN	0080B	31	1290 302 482	102.422	MB	00005	2	1290 304 056	117.410	DAF	00165	38
1272 334 003	<b>141.061</b>	IVE	0100B	26	1290 302 482	102.422	MAN	00025	2	1290 304 058	<b>147.251</b>	MB	00005	37
1272 334 003	<b>141.061</b>	IVE	0110B	34	1290 302 482	102.422	IVE	00087	2	1290 304 058	<b>147.251</b>	MAN	00025	37
1272 334 003	<b>141.061</b>	IVE	0120B	31	1290 302 482	102.422	DAF	00165	2	1290 304 058	<b>147.251</b>	IVE	00087	37
1272 334 003	<b>141.061</b>	RVI	0145B	26	1290 302 486	<b>102.418</b>	MB	00005	2	1290 304 058	<b>147.251</b>	DAF	00165	37
1272 334 003	<b>141.061</b>	RVI	0150B	34	1290 302 486	<b>102.418</b>	MAN	00025	2	1290 304 350	<b>119.221</b>	MB	00005	26
1272 334 003	<b>141.061</b>	RVI	0160B	31	1290 302 486	<b>102.418</b>	IVE	00087	2	1290 304 350	<b>119.221</b>	MAN	00025	26
1272 334 003	<b>141.061</b>	DAF	0190B	26	1290 302 486	<b>102.418</b>	DAF	00165	2	1290 304 350	<b>119.221</b>	IVE	00087	26
1272 334 003	<b>141.061</b>	DAF	0200B	26	1290 302 490	102.421	MB	00005	2	1290 304 350	<b>119.221</b>	DAF	00165	26
1272 334 003	<b>141.061</b>	DAF	0220B	34	1290 302 490	102.421	MAN	00025	2	1290 304 350	<b>119.221</b>	DAF	0220A	45
1272 334 003	<b>141.061</b>	DAF	0230B	31	1290 302 490	102.421	IVE	00087	2	1290 304 350	<b>119.221</b>	DAF	0230A	49
1272 334 003	<b>141.061</b>	KAS	0290B	26	1290 302 490	102.421	DAF	00165	2	1290 304 356	See	1290 304 438		
1272 334 003	<b>141.061</b>	KAS	0300B	26	1290 303 197	<b>146.664</b>	MB	00005	44	1290 304 366	<b>119.268</b>	MB	00005	27
1290 203 018	See	0735 371 607			1290 303 197	<b>146.664</b>	MAN	00025	44	1290 304 366	<b>119.268</b>	MAN	00025	27
1290 203 039	<b>105.222</b>	MB	00005	45	1290 303 197	<b>146.664</b>	IVE	00087	44	1290 304 366	<b>119.268</b>	IVE	00087	27
1290 203 039	<b>105.222</b>	MAN	00025	45	1290 303 197	<b>146.664</b>	DAF	00165	44	1290 304 366	<b>119.268</b>	DAF	00165	27
1290 203 039	<b>105.222</b>	IVE	00087	45	1290 303 198	<b>146.663</b>	MB	00005	43	1290 304 371	See	1290 304 058		
1290 203 039	<b>105.222</b>	DAF	00165	45	1290 303 198	<b>146.663</b>	MAN	00025	43	1290 304 438	<b>119.223</b>	MB	00005	28
1290 203 042	105.223	MB	00005	45	1290 303 198	<b>146.663</b>	IVE	00087	43	1290 304 438	<b>119.223</b>	MAN	00025	28
1290 203 042	105.223	MAN	00025	45	1290 303 198	<b>146.663</b>	DAF	00165	43	1290 304 438	<b>119.223</b>	IVE	00087	28
1290 203 042	105.223	IVE	00087	45	1290 303 199	<b>146.662</b>	MB	00005	42	1290 304 438	<b>119.223</b>	DAF	00165	28
1290 203 042	105.223	DAF	00165	45	1290 303 199	<b>146.662</b>	MAN	00025	42	1290 304 438	<b>119.223</b>	DAF	0220A	47

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1290 304 438	<b>119.223</b>	DAF	0230A	5 1	1290 304 573	<b>157.991</b>	MAN	00025	36	1290 306 066	<b>141.194</b>	MAN	0080B	23
1290 304 440	See	6002 305 994			1290 304 573	<b>157.991</b>	IVE	00087	36	1290 306 066	<b>141.194</b>	IVE	00090	15
1290 304 473	<b>119.138</b>	MAN	0050A	29	1290 304 573	<b>157.991</b>	DAF	00165	36	1290 306 066	<b>141.194</b>	IVE	00090	29
1290 304 473	<b>119.138</b>	DAF	0190A	29	1290 304 574	<b>146.657</b>	MB	00005	14	1290 306 066	<b>141.194</b>	IVE	00090	46
1290 304 473	<b>119.138</b>	KAS	0290A	29	1290 304 574	<b>146.657</b>	MAN	00025	14	1290 306 066	<b>141.194</b>	IVE	0100B	22
1290 304 482	<b>109.738</b>	MB	00005	3	1290 304 574	<b>146.657</b>	IVE	00087	14	1290 306 066	<b>141.194</b>	IVE	0100B	33
1290 304 482	<b>109.738</b>	MAN	00025	3	1290 304 574	<b>146.657</b>	DAF	00165	14	1290 306 066	<b>141.194</b>	IVE	0110B	30
1290 304 482	<b>109.738</b>	IVE	00087	3	1290 304 581	<b>146.658</b>	MB	00005	20	1290 306 066	<b>141.194</b>	IVE	0120B	23
1290 304 482	<b>109.738</b>	DAF	00165	3	1290 304 581	<b>146.658</b>	MAN	00025	20	1290 306 066	<b>141.194</b>	RVI	00130	15
1290 304 485	<i>146.665</i>	MB	00005	24	1290 304 581	<b>146.658</b>	IVE	00087	20	1290 306 066	<b>141.194</b>	RVI	00130	29
1290 304 485	<i>146.665</i>	MAN	00025	24	1290 304 581	<b>146.658</b>	DAF	00165	20	1290 306 066	<b>141.194</b>	RVI	00130	46
1290 304 485	<i>146.665</i>	IVE	00087	24	1290 304 619	<b>155.247</b>	MB	00005	17	1290 306 066	<b>141.194</b>	RVI	00140	15
1290 304 485	<i>146.665</i>	DAF	00165	24	1290 304 619	<b>155.247</b>	MAN	00025	17	1290 306 066	<b>141.194</b>	RVI	0145B	22
1290 304 487	<b>146.659</b>	MB	00005	24	1290 304 619	<b>155.247</b>	IVE	00087	17	1290 306 066	<b>141.194</b>	RVI	0145B	33
1290 304 487	<b>146.659</b>	MAN	00025	24	1290 304 619	<b>155.247</b>	DAF	00165	17	1290 306 066	<b>141.194</b>	RVI	0150B	30
1290 304 487	<b>146.659</b>	IVE	00087	24	1290 304 620	<b>103.216</b>	MB	00005	22	1290 306 066	<b>141.194</b>	RVI	0160B	23
1290 304 487	<b>146.659</b>	DAF	00165	24	1290 304 620	<b>103.216</b>	MAN	00025	22	1290 306 066	<b>141.194</b>	DAF	00170	15
1290 304 505	See	1290 304 482			1290 304 620	<b>103.216</b>	IVE	00087	22	1290 306 066	<b>141.194</b>	DAF	00170	29
1290 304 508	<b>109.739</b>	MB	00005	15	1290 304 620	<b>103.216</b>	DAF	00165	22	1290 306 066	<b>141.194</b>	DAF	00170	46
1290 304 508	<b>109.739</b>	MAN	00025	15	1290 305 022	See	1290 305 028			1290 306 066	<b>141.194</b>	DAF	00180	15
1290 304 508	<b>109.739</b>	IVE	00087	15	1290 305 023	See	1290 305 034			1290 306 066	<b>141.194</b>	DAF	0190B	22
1290 304 508	<b>109.739</b>	DAF	00165	15	1290 305 026	See	1290 305 034			1290 306 066	<b>141.194</b>	DAF	0200B	22
1290 304 509	<b>109.740</b>	MB	00005	19	1290 305 028	<i>103.213</i>	MB	00005	48	1290 306 066	<b>141.194</b>	DAF	0220B	30
1290 304 509	<b>109.740</b>	MAN	00025	19	1290 305 028	<i>103.213</i>	MAN	00025	48	1290 306 066	<b>141.194</b>	DAF	0230B	23
1290 304 509	<b>109.740</b>	IVE	00087	19	1290 305 028	<i>103.213</i>	IVE	00087	48	1290 306 066	<b>141.194</b>	VOL	00240	15
1290 304 509	<b>109.740</b>	DAF	00165	19	1290 305 028	<i>103.213</i>	DAF	00165	48	1290 306 066	<b>141.194</b>	VOL	00240	29
1290 304 547	<b>146.656</b>	MB	00005	11	1290 305 029	See	1290 305 034			1290 306 066	<b>141.194</b>	VOL	00240	46
1290 304 547	<b>146.656</b>	MAN	00025	11	1290 305 031	See	1290 305 034			1290 306 066	<b>141.194</b>	VOL	00250	15
1290 304 547	<b>146.656</b>	IVE	00087	11	1290 305 034	<i>147.252</i>	MB	00005	47	1290 306 066	<b>141.194</b>	KAS	00270	15
1290 304 547	<b>146.656</b>	DAF	00165	11	1290 305 034	<i>147.252</i>	MAN	00025	47	1290 306 066	<b>141.194</b>	KAS	00270	29
1290 304 548	<i>145.963</i>	MB	00005	11	1290 305 034	<i>147.252</i>	IVE	00087	47	1290 306 066	<b>141.194</b>	KAS	00270	46
1290 304 548	<i>145.963</i>	MAN	00025	11	1290 305 034	<i>147.252</i>	DAF	00165	47	1290 306 066	<b>141.194</b>	KAS	00280	15
1290 304 548	<i>145.963</i>	IVE	00087	11	1290 306 066	<b>141.194</b>	MB	00010	15	1290 306 066	<b>141.194</b>	KAS	0290B	22
1290 304 548	<i>145.963</i>	DAF	00165	11	1290 306 066	<b>141.194</b>	MB	00010	29	1290 306 066	<b>141.194</b>	KAS	0300B	22
1290 304 571	<b>103.210</b>	MB	00005	22	1290 306 066	<b>141.194</b>	MAN	00030	15	1290 306 066	<b>141.194</b>	KAS	0300B	33
1290 304 571	<b>103.210</b>	MAN	00025	22	1290 306 066	<b>141.194</b>	MAN	00030	29	1296 312 005	See	1296 312 053		
1290 304 571	<b>103.210</b>	IVE	00087	22	1290 306 066	<b>141.194</b>	MAN	00030	46	1296 312 047	See	1296 312 053		
1290 304 571	<b>103.210</b>	DAF	00165	22	1290 306 066	<b>141.194</b>	MAN	00040	15	1296 312 053	<i>189.421</i>	MAN	0080B	29
1290 304 572	<b>146.660</b>	MB	00005	35	1290 306 066	<b>141.194</b>	MAN	0050B	22	1296 312 053	<i>189.421</i>	IVE	0120B	29
1290 304 572	<b>146.660</b>	MAN	00025	35	1290 306 066	<b>141.194</b>	MAN	0060B	22	1296 312 053	<i>189.421</i>	RVI	0160B	29
1290 304 572	<b>146.660</b>	IVE	00087	35	1290 306 066	<b>141.194</b>	MAN	0060B	33	1296 312 053	<i>189.421</i>	DAF	0230B	29
1290 304 572	<b>146.660</b>	DAF	00165	35	1296 328 001	See	1296 333 022							
1290 304 573	<b>157.991</b>	MB	00005	36	1296 328 002	See	1296 333 022							

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1296 333 022	<b>119.085</b>	MAN	0070B	20	1297 304 402	<b>119.119</b>	KAS	00280	20	1297 304 436	<b>160.189</b>	DAF	0230A	54
1296 333 022	<b>119.085</b>	MAN	0080B	13	1297 304 431	See	1310 304 202			1297 304 436	<b>160.189</b>	VOL	00240	11
1296 333 022	<b>119.085</b>	IVE	0100B	13	1297 304 433	See	1297 304 402			1297 304 436	<b>160.189</b>	VOL	00240	23
1296 333 022	<b>119.085</b>	IVE	0110B	20	1297 304 436	<b>160.189</b>	MB	00005	31	1297 304 436	<b>160.189</b>	VOL	00240	37
1296 333 022	<b>119.085</b>	IVE	0120B	13	1297 304 436	<b>160.189</b>	MB	00010	11	1297 304 436	<b>160.189</b>	VOL	00250	11
1296 333 022	<b>119.085</b>	RVI	0145B	13	1297 304 436	<b>160.189</b>	MB	00010	23	1297 304 436	<b>160.189</b>	KAS	00270	11
1296 333 022	<b>119.085</b>	RVI	0150B	20	1297 304 436	<b>160.189</b>	MB	00010	37	1297 304 436	<b>160.189</b>	KAS	00270	23
1296 333 022	<b>119.085</b>	RVI	0160B	13	1297 304 436	<b>160.189</b>	MAN	00025	31	1297 304 436	<b>160.189</b>	KAS	00270	37
1296 333 022	<b>119.085</b>	DAF	0200B	13	1297 304 436	<b>160.189</b>	MAN	00030	11	1297 304 436	<b>160.189</b>	KAS	00280	11
1296 333 022	<b>119.085</b>	DAF	0220B	20	1297 304 436	<b>160.189</b>	MAN	00030	23	1297 304 436	<b>160.189</b>	KAS	0290A	21
1296 333 022	<b>119.085</b>	DAF	0230B	13	1297 304 436	<b>160.189</b>	MAN	00030	37	1297 304 436	<b>160.189</b>	KAS	0300A	10
1296 333 022	<b>119.085</b>	KAS	0300B	13	1297 304 436	<b>160.189</b>	MAN	00040	11	1297 304 436	<b>160.189</b>	KAS	0300A	21
1296 333 044	See	1296 333 045			1297 304 436	<b>160.189</b>	MAN	0050A	21	1297 304 437	<b>160.242</b>	MB	0020B	17
1296 333 045	<b>119.172</b>	MAN	0060B	13	1297 304 436	<b>160.189</b>	MAN	0060A	10	1297 304 437	<b>160.242</b>	DAF	0210B	17
1296 333 045	<b>119.172</b>	MAN	0070B	20	1297 304 436	<b>160.189</b>	MAN	0060A	21	1297 304 437	<b>160.242</b>	VOL	0260B	17
1296 333 045	<b>119.172</b>	MAN	0080B	13	1297 304 436	<b>160.189</b>	MAN	0070A	21	1297 304 448	See	1310 304 202		
1296 333 045	<b>119.172</b>	IVE	0100B	13	1297 304 436	<b>160.189</b>	MAN	0080A	30	1297 304 484	<b>119.167</b>	MB	00010	20
1296 333 045	<b>119.172</b>	IVE	0110B	20	1297 304 436	<b>160.189</b>	IVE	00087	31	1297 304 484	<b>119.167</b>	MAN	00030	20
1296 333 045	<b>119.172</b>	IVE	0120B	13	1297 304 436	<b>160.189</b>	IVE	00090	11	1297 304 484	<b>119.167</b>	MAN	00040	20
1296 333 045	<b>119.172</b>	RVI	0145B	13	1297 304 436	<b>160.189</b>	IVE	00090	23	1297 304 484	<b>119.167</b>	IVE	00090	20
1296 333 045	<b>119.172</b>	RVI	0150B	20	1297 304 436	<b>160.189</b>	IVE	00090	37	1297 304 484	<b>119.167</b>	RVI	00130	20
1296 333 045	<b>119.172</b>	RVI	0160B	13	1297 304 436	<b>160.189</b>	IVE	0100A	10	1297 304 484	<b>119.167</b>	RVI	00140	20
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1304 202 172	102.356	IVE	0110A	3	1304 202 193	102.344	DAF	0190A	3	1304 202 214	<b>109.396</b>	KAS	0300A	5
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1304 232 022	198.815	RVI	0160B	7	1304 232 085	<b>109.173</b>	DAF	0220B	26	1304 233 005	<b>198.817</b>	KAS	0300B	12
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1304 298 908	<b>298.026</b>	DAF	0190B	31	1304 298 939	<b>298.027</b>	IVE	0100B	37	1304 303 175	<b>146.436</b>	MAN	0080A	41
1304 298 908	<b>298.026</b>	DAF	0200A	43	1304 298 939	<b>298.027</b>	RVI	0145A	42	1304 303 175	<b>146.436</b>	IVE	0120A	41
1304 298 908	<b>298.026</b>	DAF	0220A	53	1304 298 939	<b>298.027</b>	RVI	0145B	37	1304 303 175	<b>146.436</b>	RVI	0160A	41
1304 298 908	<b>298.026</b>	DAF	0220B	45	1304 298 939	<b>298.027</b>	DAF	0200B	36	1304 303 175	<b>146.436</b>	DAF	0230A	41
1304 298 908	<b>298.026</b>	DAF	0230A	57	1304 298 939	<b>298.027</b>	KAS	0300A	42	1304 303 192	<b>146.438</b>	MAN	0080A	42
1304 298 908	<b>298.026</b>	DAF	0230B	42	1304 298 939	<b>298.027</b>	KAS	0300B	37	1304 303 192	<b>146.438</b>	IVE	0120A	42
1304 298 908	<b>298.026</b>	KAS	0290A	46	1304 302 006	See	1304 302 188			1304 303 192	<b>146.438</b>	RVI	0160A	42
1304 298 908	<b>298.026</b>	KAS	0290B	31	1304 302 137	See	1304 302 169			1304 303 192	<b>146.438</b>	DAF	0230A	42
1304 298 914	<b>198.945</b>	MAN	0050A	47	1304 302 150	<b>145.516</b>	MAN	0080A	3	1304 303 198	See	1304 303 207		
1304 298 914	<b>198.945</b>	MAN	0050B	32	1304 302 150	<b>145.516</b>	IVE	0120A	3	1304 303 199	See	1304 303 219		
1304 298 914	<b>198.945</b>	MAN	0060A	43	1304 302 150	<b>145.516</b>	RVI	0160A	3	1304 303 200	See	1304 303 225		
1304 298 914	<b>198.945</b>	MAN	0060B	38	1304 302 150	<b>145.516</b>	DAF	0230A	3	1304 303 206	<b>143.118</b>	MAN	0050A	40
1304 298 914	<b>198.945</b>	MAN	0070A	45	1304 302 169	<b>145.478</b>	MAN	0080A	3	1304 303 206	<b>143.118</b>	DAF	0190A	40
1304 298 914	<b>198.945</b>	MAN	0070B	46	1304 302 169	<b>145.478</b>	IVE	0120A	3	1304 303 206	<b>143.118</b>	KAS	0290A	40
1304 298 914	<b>198.945</b>	MAN	0080A	49	1304 302 169	<b>145.478</b>	RVI	0160A	3	1304 303 207	<b>143.116</b>	MAN	0050A	40
1304 298 914	<b>198.945</b>	MAN	0080B	43	1304 302 169	<b>145.478</b>	DAF	0230A	3	1304 303 207	<b>143.116</b>	DAF	0190A	40
1304 298 914	<b>198.945</b>	IVE	0100A	43	1304 302 188	<b>109.169</b>	MAN	0080A	5	1304 303 207	<b>143.116</b>	KAS	0290A	40
1304 298 914	<b>198.945</b>	IVE	0100B	38	1304 302 188	<b>109.169</b>	IVE	0120A	5	1304 303 209	<b>143.122</b>	MAN	0070A	38
1304 298 914	<b>198.945</b>	IVE	0110A	45	1304 302 188	<b>109.169</b>	RVI	0160A	5	1304 303 209	<b>143.122</b>	IVE	0110A	38
1304 298 914	<b>198.945</b>	IVE	0110B	46	1304 302 188	<b>109.169</b>	DAF	0230A	5	1304 303 209	<b>143.122</b>	RVI	0150A	38
1304 298 914	<b>198.945</b>	IVE	0120A	49	1304 302 259	See	1304 302 425			1304 303 209	<b>143.122</b>	DAF	0220A	38
1304 298 914	<b>198.945</b>	IVE	0120B	43	1304 302 425	<b>109.395</b>	MAN	0060A	9	1304 303 210	<b>146.587</b>	MAN	0070A	37
1304 298 914	<b>198.945</b>	RVI	0145A	43	1304 302 425	<b>109.395</b>	IVE	0100A	9	1304 303 210	<b>146.587</b>	IVE	0110A	37
1304 298 914	<b>198.945</b>	RVI	0145B	38	1304 302 425	<b>109.395</b>	RVI	0145A	9	1304 303 210	<b>146.587</b>	RVI	0150A	37
1304 298 914	<b>198.945</b>	RVI	0150A	45	1304 302 425	<b>109.395</b>	KAS	0300A	9	1304 303 210	<b>146.587</b>	DAF	0220A	37
1304 298 914	<b>198.945</b>	RVI	0150B	46	1304 303 119	<b>105.183</b>	MAN	0050A	41	1304 303 212	<b>146.395</b>	MAN	0080A	41
1304 298 914	<b>198.945</b>	RVI	0160A	49	1304 303 119	<b>105.183</b>	DAF	0190A	41	1304 303 212	<b>146.395</b>	IVE	0120A	41
1304 298 914	<b>198.945</b>	RVI	0160B	43	1304 303 119	<b>105.183</b>	KAS	0290A	41	1304 303 212	<b>146.395</b>	RVI	0160A	41
1304 298 914	<b>198.945</b>	DAF	0190A	47	1304 303 142	See	1304 303 206			1304 303 212	<b>146.395</b>	DAF	0230A	41
1304 298 914	<b>198.945</b>	DAF	0190B	32	1304 303 144		See			1304 303 214	<b>146.396</b>	MAN	0080A	42
1304 298 914	<b>198.945</b>	DAF	0200A	44	1304 303 145	See	1304 303 224			1304 303 214	<b>146.396</b>	IVE	0120A	42
1304 298 914	<b>198.945</b>	DAF	0200B	37	1304 303 146	See	1304 303 217			1304 303 214	<b>146.396</b>	RVI	0160A	42
1304 298 914	<b>198.945</b>	DAF	0220A	54	1304 303 147	See	1304 303 218			1304 303 214	<b>146.396</b>	DAF	0230A	42

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1304 303 217	146.583	MAN	0050A	38	1304 303 269	105.187	DAF	0220A	39	1304 303 291	105.186	MAN	0060A	35
1304 303 217	146.583	DAF	0190A	38	1304 303 272	146.584	MAN	0070A	36	1304 303 291	105.186	IVE	0100A	35
1304 303 217	146.583	KAS	0290A	38	1304 303 272	146.584	IVE	0110A	36	1304 303 291	105.186	RVI	0145A	35
1304 303 218	146.582	MAN	0050A	38	1304 303 272	146.584	RVI	0150A	36	1304 303 291	105.186	KAS	0300A	35
1304 303 218	146.582	DAF	0190A	38	1304 303 272	146.584	DAF	0200A	35	1304 303 292	143.121	MAN	0060A	34
1304 303 218	146.582	KAS	0290A	38	1304 303 272	146.584	DAF	0220A	36	1304 303 292	143.121	IVE	0100A	34
1304 303 219	146.581	MAN	0050A	38	1304 303 273	146.394	MAN	0080A	40	1304 303 292	143.121	RVI	0145A	34
1304 303 219	146.581	DAF	0190A	38	1304 303 273	146.394	IVE	0120A	40	1304 303 292	143.121	KAS	0300A	34
1304 303 219	146.581	KAS	0290A	38	1304 303 273	146.394	RVI	0160A	40	1304 303 293	147.234	MAN	0060A	33
1304 303 223	147.225	MAN	0050A	39	1304 303 273	146.394	DAF	0230A	40	1304 303 293	147.234	IVE	0100A	33
1304 303 223	147.225	DAF	0190A	39	1304 303 276	105.115	MAN	0080A	43	1304 303 293	147.234	RVI	0145A	33
1304 303 223	147.225	KAS	0290A	39	1304 303 276	105.115	IVE	0120A	43	1304 303 293	147.234	KAS	0300A	33
1304 303 224	147.223	MAN	0050A	39	1304 303 276	105.115	RVI	0160A	43	1304 303 294	146.586	MAN	0060A	32
1304 303 224	147.223	DAF	0190A	39	1304 303 276	105.115	DAF	0230A	43	1304 303 294	146.586	IVE	0100A	32
1304 303 224	147.223	KAS	0290A	39	1304 303 277	105.099	MAN	0080A	43	1304 303 294	146.586	RVI	0145A	32
1304 303 225	147.221	MAN	0050A	39	1304 303 277	105.099	IVE	0120A	43	1304 303 294	146.586	KAS	0300A	32
1304 303 225	147.221	DAF	0190A	39	1304 303 277	105.099	RVI	0160A	43	1304 303 322	105.185	MAN	0060A	38
1304 303 225	147.221	KAS	0290A	39	1304 303 277	105.099	DAF	0230A	43	1304 303 322	105.185	IVE	0100A	38
1304 303 230	143.117	MAN	0050A	40	1304 303 279	105.111	MAN	0080A	43	1304 303 322	105.185	RVI	0145A	38
1304 303 230	143.117	DAF	0190A	40	1304 303 279	105.111	IVE	0120A	43	1304 303 322	105.185	KAS	0300A	38
1304 303 230	143.117	KAS	0290A	40	1304 303 279	105.111	RVI	0160A	43	1304 304 007	109.172	MAN	0060A	25
1304 303 243	143.119	MAN	0070A	38	1304 303 279	105.111	DAF	0230A	43	1304 304 007	109.172	MAN	0080A	33
1304 303 243	143.119	IVE	0110A	38	1304 303 283	146.434	MAN	0080A	40	1304 304 007	109.172	IVE	0100A	25
1304 303 243	143.119	RVI	0150A	38	1304 303 283	146.434	IVE	0120A	40	1304 304 007	109.172	IVE	0120A	33
1304 303 243	143.119	DAF	0200A	37	1304 303 283	146.434	RVI	0160A	40	1304 304 007	109.172	RVI	0145A	25
1304 303 243	143.119	DAF	0220A	38	1304 303 283	146.434	DAF	0230A	40	1304 304 007	109.172	RVI	0160A	33
1304 303 244	147.228	MAN	0070A	37	1304 303 285	146.588	MAN	0070A	36	1304 304 007	109.172	DAF	0230A	33
1304 303 244	147.228	IVE	0110A	37	1304 303 285	146.588	IVE	0110A	36	1304 304 007	109.172	KAS	0300A	25
1304 303 244	147.228	RVI	0150A	37	1304 303 285	146.588	RVI	0150A	36	1304 304 012	109.170	MAN	0080A	15
1304 303 244	147.228	DAF	0200A	36	1304 303 285	146.588	DAF	0220A	36	1304 304 012	109.170	IVE	0120A	15
1304 303 244	147.228	DAF	0220A	37	1304 303 286	143.123	MAN	0070A	38	1304 304 012	109.170	RVI	0160A	15
1304 303 267	105.184	MAN	0070A	39	1304 303 286	143.123	IVE	0110A	38	1304 304 012	109.170	DAF	0230A	15
1304 303 267	105.184	IVE	0110A	39	1304 303 286	143.123	RVI	0150A	38	1304 304 013	See	6002 305 515		
1304 303 267	105.184	RVI	0150A	39	1304 303 286	143.123	DAF	0220A	38	1304 304 014	119.150	MAN	0050A	6
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
1304 303 268	105.188	MAN	0070A	39	1304 303 287	146.589	RVI	0150A	37	1304 304 014	119.150	IVE	0110A	6
1304 303 268	105.188	IVE	0110A	39	1304 303 287	146.589	DAF	0220A	37	1304 304 014	119.150	IVE	0120A	16
1304 303 268	105.188	RVI	0150A	39	1304 303 288	See	1304 303 322			1304 304 014	119.150	RVI	0150A	6
1304 303 268	105.188	DAF	0220A	39	1304 303 289	143.120	MAN	0060A	37	1304 304 014	119.150	RVI	0160A	16
1304 303 269	105.187	MAN	0070A	39	1304 303 289	143.120	IVE	0100A	37	1304 304 014	119.150	DAF	0190A	6
1304 303 269	105.187	IVE	0110A	39	1304 303 289	143.120	RVI	0145A	37	1304 304 014	119.150	DAF	0200A	6
1304 303 269	105.187	RVI	0150A	39	1304 303 289	143.120	KAS	0300A	37	1304 304 014	119.150	DAF	0220A	6

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1304 304 014	119.150	DAF	0230A	16	1304 304 367	<b>145.831</b>	MAN	0070A	16	1304 304 428	<b>145.829</b>	RVI	0150A	27
1304 304 014	119.150	KAS	0290A	6	1304 304 367	<b>145.831</b>	IVE	0110A	16	1304 304 428	<b>145.829</b>	DAF	0220A	27
1304 304 050	117.377	MAN	0050A	14	1304 304 367	<b>145.831</b>	RVI	0150A	16	1304 304 430	145.817	MAN	0050A	27
1304 304 050	117.377	MAN	0070A	14	1304 304 367	<b>145.831</b>	DAF	0220A	16	1304 304 430	145.817	DAF	0190A	27
1304 304 050	117.377	IVE	0110A	14	1304 304 369	145.840	MAN	0070A	23	1304 304 430	145.817	KAS	0290A	27
1304 304 050	117.377	RVI	0150A	14	1304 304 369	145.840	IVE	0110A	23	1304 304 435	147.226	MAN	0070A	31
1304 304 050	117.377	DAF	0190A	14	1304 304 369	145.840	RVI	0150A	23	1304 304 435	147.226	IVE	0110A	31
1304 304 050	117.377	DAF	0200A	14	1304 304 369	145.840	DAF	0220A	23	1304 304 435	147.226	RVI	0150A	31
1304 304 050	117.377	DAF	0220A	14	1304 304 376	145.520	MAN	0080A	32	1304 304 435	147.226	DAF	0200A	30
1304 304 050	117.377	KAS	0290A	14	1304 304 376	145.520	IVE	0120A	32	1304 304 435	147.226	DAF	0220A	31
1304 304 051	<b>157.697</b>	MAN	0050A	7	1304 304 376	145.520	RVI	0160A	32	1304 304 437	<b>147.235</b>	MAN	0070A	31
1304 304 051	<b>157.697</b>	MAN	0070A	7	1304 304 376	145.520	DAF	0230A	32	1304 304 437	<b>147.235</b>	IVE	0110A	31
1304 304 051	<b>157.697</b>	IVE	0110A	7	1304 304 394	154.360	MAN	0050A	31	1304 304 437	<b>147.235</b>	RVI	0150A	31
1304 304 051	<b>157.697</b>	RVI	0150A	7	1304 304 394	154.360	DAF	0190A	31	1304 304 437	<b>147.235</b>	DAF	0220A	31
1304 304 051	<b>157.697</b>	DAF	0190A	7	1304 304 394	154.360	KAS	0290A	31	1304 304 443	157.698	MAN	0070A	28
1304 304 051	<b>157.697</b>	DAF	0200A	7	1304 304 408	<b>109.171</b>	MAN	0050A	17	1304 304 443	157.698	IVE	0110A	28
1304 304 051	<b>157.697</b>	DAF	0220A	7	1304 304 408	<b>109.171</b>	MAN	0070A	17	1304 304 443	157.698	RVI	0150A	28
1304 304 051	<b>157.697</b>	KAS	0290A	7	1304 304 408	<b>109.171</b>	MAN	0080A	26	1304 304 443	157.698	DAF	0200A	27
1304 304 056	See	1304 304 660			1304 304 408	<b>109.171</b>	IVE	0110A	17	1304 304 443	157.698	DAF	0220A	28
1304 304 132	See	1304 304 496			1304 304 408	<b>109.171</b>	IVE	0120A	26	1304 304 444	154.362	MAN	0070A	29
1304 304 199	157.201	MAN	0080A	37	1304 304 408	<b>109.171</b>	RVI	0150A	17	1304 304 444	154.362	IVE	0110A	29
1304 304 199	157.201	IVE	0120A	37	1304 304 408	<b>109.171</b>	RVI	0160A	26	1304 304 444	154.362	RVI	0150A	29
1304 304 199	157.201	RVI	0160A	37	1304 304 408	<b>109.171</b>	DAF	0190A	17	1304 304 444	154.362	DAF	0200A	28
1304 304 199	157.201	DAF	0230A	37	1304 304 408	<b>109.171</b>	DAF	0200A	17	1304 304 444	154.362	DAF	0220A	29
1304 304 261	157.188	MAN	0080A	37	1304 304 408	<b>109.171</b>	DAF	0220A	17	1304 304 445	109.390	MAN	0050A	28
1304 304 261	157.188	IVE	0120A	37	1304 304 408	<b>109.171</b>	DAF	0230A	26	1304 304 445	109.390	DAF	0190A	28
1304 304 261	157.188	RVI	0160A	37	1304 304 408	<b>109.171</b>	KAS	0290A	17	1304 304 445	109.390	KAS	0290A	28
1304 304 261	157.188	DAF	0230A	37	1304 304 417	<b>145.518</b>	MAN	0080A	21	1304 304 446	147.219	MAN	0050A	33
1304 304 324	See	1304 304 462			1304 304 417	<b>145.518</b>	IVE	0120A	21	1304 304 446	147.219	DAF	0190A	33
1304 304 326	See	1304 304 461			1304 304 417	<b>145.518</b>	RVI	0160A	21	1304 304 446	147.219	KAS	0290A	33
1304 304 328	See	1304 304 478			1304 304 417	<b>145.518</b>	DAF	0230A	21	1304 304 448	157.699	MAN	0070A	33
1304 304 329	See	1304 304 479			1304 304 420	See	1304 304 497			1304 304 448	157.699	IVE	0110A	33
1304 304 331	See	1304 304 500			1304 304 422	145.519	MAN	0080A	25	1304 304 448	157.699	RVI	0150A	33
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	<b>103.190</b>	MAN	0050A	25
1304 304 358	145.533	IVE	0120A	32	1304 304 424	See	1304 304 464			1304 304 449	<b>103.190</b>	MAN	0070A	25
1304 304 358	145.533	RVI	0160A	32	1304 304 426	<b>145.828</b>	MAN	0070A	27	1304 304 449	<b>103.190</b>	IVE	0110A	25
1304 304 358	145.533	DAF	0230A	32	1304 304 426	<b>145.828</b>	IVE	0110A	27	1304 304 449	<b>103.190</b>	RVI	0150A	25
1304 304 365	145.839	MAN	0070A	12	1304 304 426	<b>145.828</b>	RVI	0150A	27	1304 304 449	<b>103.190</b>	DAF	0190A	25
1304 304 365	145.839	IVE	0110A	12	1304 304 426	<b>145.828</b>	DAF	0220A	27	1304 304 449	<b>103.190</b>	DAF	0200A	25
1304 304 365	145.839	RVI	0150A	12	1304 304 428	<b>145.829</b>	MAN	0070A	27	1304 304 449	<b>103.190</b>	DAF	0220A	25
1304 304 365	145.839	DAF	0220A	12	1304 304 428	<b>145.829</b>	IVE	0110A	27	1304 304 449	<b>103.190</b>	KAS	0290A	25

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1304 304 450	See	1304 304 480			1304 304 496	119.149	RVI	0160A	6	1304 304 542	119.151	DAF	0220A	18
1304 304 451	See	1304 304 463			1304 304 496	119.149	DAF	0230A	6	1304 304 542	119.151	DAF	0230A	27
1304 304 452	157.695	MAN	0050A	35	1304 304 497	145.480	MAN	0080A	25	1304 304 542	119.151	KAS	0290A	18
1304 304 452	157.695	DAF	0190A	35	1304 304 497	145.480	IVE	0120A	25	1304 304 543	145.833	MAN	0070A	27
1304 304 452	157.695	KAS	0290A	35	1304 304 497	145.480	RVI	0160A	25	1304 304 543	145.833	IVE	0110A	27
1304 304 461	145.820	MAN	0050A	16	1304 304 497	145.480	DAF	0230A	25	1304 304 543	145.833	RVI	0150A	27
1304 304 461	145.820	DAF	0190A	16	1304 304 498	147.227	MAN	0070A	23	1304 304 543	145.833	DAF	0220A	27
1304 304 461	145.820	KAS	0290A	16	1304 304 498	147.227	IVE	0110A	23	1304 304 549	145.481	MAN	0080A	32
1304 304 462	147.224	MAN	0050A	23	1304 304 498	147.227	RVI	0150A	23	1304 304 549	145.481	IVE	0120A	32
1304 304 462	147.224	DAF	0190A	23	1304 304 498	147.227	DAF	0200A	23	1304 304 549	145.481	RVI	0160A	32
1304 304 462	147.224	KAS	0290A	23	1304 304 498	147.227	DAF	0220A	23	1304 304 549	145.481	DAF	0230A	32
1304 304 463	145.818	MAN	0050A	16	1304 304 499	145.823	MAN	0070A	16	1304 304 553	147.236	MAN	0070A	31
1304 304 463	145.818	DAF	0190A	16	1304 304 499	145.823	IVE	0110A	16	1304 304 553	147.236	IVE	0110A	31
1304 304 463	145.818	KAS	0290A	16	1304 304 499	145.823	RVI	0150A	16	1304 304 553	147.236	RVI	0150A	31
1304 304 464	147.220	MAN	0050A	23	1304 304 499	145.823	DAF	0200A	16	1304 304 553	147.236	DAF	0220A	31
1304 304 464	147.220	DAF	0190A	23	1304 304 499	145.823	DAF	0220A	16	1304 304 568	117.378	DAF	0200A	26
1304 304 464	147.220	KAS	0290A	23	1304 304 500	145.824	MAN	0070A	12	1304 304 569	145.834	MAN	0070A	23
1304 304 471	145.830	MAN	0070A	23	1304 304 500	145.824	IVE	0110A	12	1304 304 569	145.834	IVE	0110A	23
1304 304 471	145.830	IVE	0110A	23	1304 304 500	145.824	RVI	0150A	12	1304 304 569	145.834	RVI	0150A	23
1304 304 471	145.830	RVI	0150A	23	1304 304 500	145.824	DAF	0200A	12	1304 304 569	145.834	DAF	0220A	23
1304 304 471	145.830	DAF	0220A	23	1304 304 500	145.824	DAF	0220A	12	1304 304 570	145.835	MAN	0070A	16
1304 304 472	145.832	MAN	0070A	12	1304 304 515	157.186	MAN	0080A	17	1304 304 570	145.835	IVE	0110A	16
1304 304 472	145.832	IVE	0110A	12	1304 304 515	157.186	IVE	0120A	17	1304 304 570	145.835	RVI	0150A	16
1304 304 472	145.832	RVI	0150A	12	1304 304 515	157.186	RVI	0160A	17	1304 304 570	145.835	DAF	0220A	16
1304 304 472	145.832	DAF	0220A	12	1304 304 515	157.186	DAF	0230A	17	1304 304 571	145.836	MAN	0070A	12
1304 304 475	145.479	MAN	0080A	21	1304 304 516	146.397	MAN	0080A	14	1304 304 571	145.836	IVE	0110A	12
1304 304 475	145.479	IVE	0120A	21	1304 304 516	146.397	IVE	0120A	14	1304 304 571	145.836	RVI	0150A	12
1304 304 475	145.479	RVI	0160A	21	1304 304 516	146.397	RVI	0160A	14	1304 304 571	145.836	DAF	0220A	12
1304 304 475	145.479	DAF	0230A	21	1304 304 516	146.397	DAF	0230A	14	1304 304 575	See	1304 304 651		
1304 304 478	145.822	MAN	0050A	12	1304 304 518	146.439	MAN	0080A	14	1304 304 576	157.700	MAN	0060A	19
1304 304 478	145.822	DAF	0190A	12	1304 304 518	146.439	IVE	0120A	14	1304 304 576	157.700	IVE	0100A	19
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

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1304 304 586	147.229	KAS	0300A	24	1304 304 623	109.407	IVE	00087	25	1304 304 664	154.363	RVI	00130	9
1304 304 587	147.232	MAN	0060A	24	1304 304 623	109.407	DAF	00165	25	1304 304 664	154.363	RVI	0145A	8
1304 304 587	147.232	IVE	0100A	24	1304 304 623	109.407	DAF	0220A	44	1304 304 664	154.363	DAF	00170	9
1304 304 587	147.232	RVI	0145A	24	1304 304 623	109.407	DAF	0230A	48	1304 304 664	154.363	VOL	00240	9
1304 304 587	147.232	KAS	0300A	24	1304 304 630	103.129	MAN	0080A	23	1304 304 664	154.363	KAS	00270	9
1304 304 588	157.701	MAN	0060A	29	1304 304 630	103.129	IVE	0120A	23	1304 304 664	154.363	KAS	0300A	8
1304 304 588	157.701	IVE	0100A	29	1304 304 630	103.129	RVI	0160A	23	1304 304 669	147.146	MAN	0080A	35
1304 304 588	157.701	RVI	0145A	29	1304 304 630	103.129	DAF	0230A	23	1304 304 669	147.146	IVE	0120A	35
1304 304 588	157.701	KAS	0300A	29	1304 304 636	147.231	MAN	0060A	12	1304 304 669	147.146	RVI	0160A	35
1304 304 591	157.696	MAN	0050A	19	1304 304 636	147.231	IVE	0100A	12	1304 304 669	147.146	DAF	0230A	35
1304 304 591	157.696	MAN	0070A	19	1304 304 636	147.231	RVI	0145A	12	1304 304 670	147.149	MAN	0080A	35
1304 304 591	157.696	IVE	0110A	19	1304 304 636	147.231	KAS	0300A	12	1304 304 670	147.149	IVE	0120A	35
1304 304 591	157.696	RVI	0150A	19	1304 304 637	147.233	MAN	0060A	12	1304 304 670	147.149	RVI	0160A	35
1304 304 591	157.696	DAF	0190A	19	1304 304 637	147.233	IVE	0100A	12	1304 304 670	147.149	DAF	0230A	35
1304 304 591	157.696	DAF	0200A	19	1304 304 637	147.233	RVI	0145A	12	1304 304 671	147.131	MAN	0080A	35
1304 304 591	157.696	DAF	0220A	19	1304 304 637	147.233	KAS	0300A	12	1304 304 671	147.131	IVE	0120A	35
1304 304 591	157.696	KAS	0290A	19	1304 304 645	See	1304 304 687			1304 304 671	147.131	RVI	0160A	35
1304 304 597	154.200	MAN	0050A	20	1304 304 646	157.712	DAF	0220A	48	1304 304 671	147.131	DAF	0230A	35
1304 304 597	154.200	MAN	0060A	20	1304 304 649	See	1304 304 623			1304 304 672	147.230	MAN	0060A	27
1304 304 597	154.200	MAN	0070A	20	1304 304 651	157.702	MAN	0060A	7	1304 304 672	147.230	IVE	0100A	27
1304 304 597	154.200	MAN	0080A	29	1304 304 651	157.702	IVE	0100A	7	1304 304 672	147.230	RVI	0145A	27
1304 304 597	154.200	IVE	0100A	20	1304 304 651	157.702	RVI	0145A	7	1304 304 672	147.230	KAS	0300A	27
1304 304 597	154.200	IVE	0110A	20	1304 304 651	157.702	KAS	0300A	7	1304 304 680	119.173	MAN	0080A	6
1304 304 597	154.200	IVE	0120A	29	1304 304 653	157.187	MAN	0080A	28	1304 304 680	119.173	IVE	0120A	6
1304 304 597	154.200	RVI	0145A	20	1304 304 653	157.187	IVE	0120A	28	1304 304 680	119.173	RVI	0160A	6
1304 304 597	154.200	RVI	0150A	20	1304 304 653	157.187	RVI	0160A	28	1304 304 680	119.173	DAF	0230A	6
1304 304 597	154.200	RVI	0160A	29	1304 304 653	157.187	DAF	0230A	28	1304 304 681	119.170	MAN	0050A	18
1304 304 597	154.200	DAF	0190A	20	1304 304 655	157.694	MAN	0050A	30	1304 304 681	119.170	MAN	0070A	18
1304 304 597	154.200	DAF	0200A	20	1304 304 655	157.694	DAF	0190A	30	1304 304 681	119.170	MAN	0080A	27
1304 304 597	154.200	DAF	0220A	20	1304 304 655	157.694	KAS	0290A	30	1304 304 681	119.170	IVE	0110A	18
1304 304 597	154.200	DAF	0230A	29	1304 304 660	109.391	MAN	0050A	5	1304 304 681	119.170	IVE	0120A	27
1304 304 597	154.200	KAS	0290A	20	1304 304 660	109.391	MAN	0070A	5	1304 304 681	119.170	RVI	0150A	18
1304 304 597	154.200	KAS	0300A	20	1304 304 660	109.391	IVE	0110A	5	1304 304 681	119.170	RVI	0160A	27
1304 304 604	103.191	MAN	0060A	14	1304 304 660	109.391	RVI	0150A	5	1304 304 681	119.170	DAF	0190A	18
1304 304 604	103.191	IVE	0100A	14	1304 304 660	109.391	DAF	0190A	5	1304 304 681	119.170	DAF	0200A	18
1304 304 604	103.191	RVI	0145A	14	1304 304 660	109.391	DAF	0200A	5	1304 304 681	119.170	DAF	0220A	18
1304 304 604	103.191	KAS	0300A	14	1304 304 660	109.391	DAF	0220A	5	1304 304 681	119.170	DAF	0230A	27
1304 304 608	157.703	MAN	0080A	37	1304 304 660	109.391	KAS	0290A	5	1304 304 681	119.170	KAS	0290A	18
1304 304 608	157.703	IVE	0120A	37	1304 304 664	154.363	MB	00010	9	1304 304 683	119.169	MAN	0050A	6
1304 304 608	157.703	RVI	0160A	37	1304 304 664	154.363	MAN	00030	9	1304 304 683	119.169	MAN	0070A	6
1304 304 608	157.703	DAF	0230A	37	1304 304 664	154.363	MAN	0060A	8	1304 304 683	119.169	MAN	0080A	16
1304 304 623	109.407	MB	00005	25	1304 304 664	154.363	IVE	00090	9	1304 304 683	119.169	IVE	0110A	6

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1304 304 683	<b>119.169</b>	RVI	0150A	6	1304 305 037	See	1304 305 044			1304 306 009		DAF	0220B	32
1304 304 683	<b>119.169</b>	RVI	0160A	16	1304 305 038	See	1304 305 045			1304 306 009		DAF	0230B	25
1304 304 683	<b>119.169</b>	DAF	0190A	6	1304 305 039	147.150	MAN	0080A	47	1304 306 009		KAS	0290B	24
1304 304 683	<b>119.169</b>	DAF	0200A	6	1304 305 039	147.150	IVE	0120A	47	1304 306 009		KAS	0300B	24
1304 304 683	<b>119.169</b>	DAF	0220A	6	1304 305 039	147.150	RVI	0160A	47	1304 306 010		MAN	0050B	23
1304 304 683	<b>119.169</b>	DAF	0230A	16	1304 305 039	147.150	DAF	0230A	47	1304 306 010		MAN	0070B	31
1304 304 683	<b>119.169</b>	KAS	0290A	6	1304 305 040	147.130	MAN	0080A	47	1304 306 010		MAN	0080B	24
1304 304 687	<b>157.713</b>	MB	00005	29	1304 305 040	147.130	IVE	0120A	47	1304 306 010		IVE	0110B	31
1304 304 687	<b>157.713</b>	MAN	00025	29	1304 305 040	147.130	RVI	0160A	47	1304 306 010		IVE	0120B	24
1304 304 687	<b>157.713</b>	IVE	00087	29	1304 305 040	147.130	DAF	0230A	47	1304 306 010		RVI	0150B	31
1304 304 687	<b>157.713</b>	DAF	00165	29	1304 305 041	147.145	MAN	0080A	47	1304 306 010		RVI	0160B	24
1304 304 687	<b>157.713</b>	DAF	0230A	52	1304 305 041	147.145	IVE	0120A	47	1304 306 010		DAF	0190B	23
1304 304 688	<b>154.199</b>	MAN	0080A	18	1304 305 041	147.145	RVI	0160A	47	1304 306 010		DAF	0200B	23
1304 304 688	<b>154.199</b>	IVE	0120A	18	1304 305 041	147.145	DAF	0230A	47	1304 306 010		DAF	0220B	31
1304 304 688	<b>154.199</b>	RVI	0160A	18	1304 305 043		MAN	0060A	41	1304 306 010		DAF	0230B	24
1304 304 688	<b>154.199</b>	DAF	0230A	18	1304 305 043		MAN	0070A	43	1304 306 010		KAS	0290B	23
1304 305 002	See	1304 305 030			1304 305 043		IVE	0100A	41	1304 306 011		MAN	0060B	25
1304 305 024		MAN	0050A	45	1304 305 043		IVE	0110A	43	1304 306 011		MAN	0080B	26
1304 305 024		DAF	0190A	45	1304 305 043		RVI	0145A	41	1304 306 011		IVE	0100B	25
1304 305 024		KAS	0290A	45	1304 305 043		RVI	0150A	43	1304 306 011		IVE	0120B	26
1304 305 028	See	1304 305 041			1304 305 043		DAF	0220A	43	1304 306 011		RVI	0145B	25
1304 305 030	107.156	MB	0020A	40	1304 305 043		KAS	0300A	41	1304 306 011		RVI	0160B	26
1304 305 030	107.156	MAN	0050A	43	1304 305 044		MAN	0070A	43	1304 306 011		DAF	0230B	26
1304 305 030	107.156	MAN	0060A	39	1304 305 044		IVE	0110A	43	1304 306 011		KAS	0300B	25
1304 305 030	107.156	MAN	0070A	41	1304 305 044		RVI	0150A	43	1304 306 043		MAN	0050B	24
1304 305 030	107.156	MAN	0080A	45	1304 305 044		DAF	0200A	42	1304 306 043		MAN	0060B	24
1304 305 030	107.156	IVE	0100A	39	1304 305 044		DAF	0220A	43	1304 306 043		MAN	0070B	32
1304 305 030	107.156	IVE	0110A	41	1304 305 045		MAN	0070A	43	1304 306 043		MAN	0080B	25
1304 305 030	107.156	IVE	0120A	45	1304 305 045		IVE	0110A	43	1304 306 043		IVE	0100B	24
1304 305 030	107.156	RVI	0145A	39	1304 305 045		RVI	0150A	43	1304 306 043		IVE	0110B	32
1304 305 030	107.156	RVI	0150A	41	1304 305 045		DAF	0220A	43	1304 306 043		IVE	0120B	25
1304 305 030	107.156	RVI	0160A	45	1304 306 009		MAN	0050B	24	1304 306 043		RVI	0145B	24
1304 305 030	107.156	DAF	0190A	43	1304 306 009		MAN	0060B	24	1304 306 043		RVI	0150B	32
1304 305 030	107.156	DAF	0200A	40	1304 306 009		MAN	0070B	32	1304 306 043		RVI	0160B	25
1304 305 030	107.156	DAF	0210A	40	1304 306 009		MAN	0080B	25	1304 306 043		DAF	0190B	24
1304 305 030	107.156	DAF	0220A	41	1304 306 009		IVE	0100B	24	1304 306 043		DAF	0220B	32
1304 305 030	107.156	DAF	0230A	45	1304 306 009		IVE	0110B	32	1304 306 043		DAF	0230B	25
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
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1304 306 044		IVE	0120B	24	1304 313 133	<b>109.397</b>	RVI	0145B	19	1304 332 071	<b>150.163</b>	MAN	0050B	10
1304 306 044		RVI	0150B	31	1304 313 133	<b>109.397</b>	RVI	0160B	19	1304 332 071	<b>150.163</b>	MAN	0060B	10
1304 306 044		RVI	0160B	24	1304 313 133	<b>109.397</b>	DAF	0190B	19	1304 332 071	<b>150.163</b>	IVE	0100B	10
1304 306 044		DAF	0190B	23	1304 313 133	<b>109.397</b>	DAF	0230B	19	1304 332 071	<b>150.163</b>	RVI	0145B	10
1304 306 044		DAF	0220B	31	1304 313 133	<b>109.397</b>	KAS	0290B	19	1304 332 071	<b>150.163</b>	DAF	0190B	10
1304 306 044		DAF	0230B	24	1304 313 133	<b>109.397</b>	KAS	0300B	19	1304 332 071	<b>150.163</b>	KAS	0290B	10
1304 306 044		KAS	0290B	23	1304 332 019	See	1304 332 111			1304 332 071	<b>150.163</b>	KAS	0300B	10
1304 306 065		MAN	0050B	25	1304 332 043	<i>123.219</i>	MAN	0080B	8	1304 332 072	<i>123.264</i>	MAN	0050B	8
1304 306 065		DAF	0190B	25	1304 332 043	<i>123.219</i>	IVE	0120B	8	1304 332 072	<i>123.264</i>	DAF	0190B	8
1304 306 065		KAS	0290B	25	1304 332 043	<i>123.219</i>	RVI	0160B	8	1304 332 072	<i>123.264</i>	KAS	0290B	8
1304 306 077		MAN	0070B	33	1304 332 043	<i>123.219</i>	DAF	0230B	8	1304 332 075	<b>109.183</b>	MAN	0050B	18
1304 306 077		IVE	0110B	33	1304 332 044	<i>150.139</i>	MAN	0080B	10	1304 332 075	<b>109.183</b>	MAN	0060B	18
1304 306 077		RVI	0150B	33	1304 332 044	<i>150.139</i>	IVE	0120B	10	1304 332 075	<b>109.183</b>	MAN	0070B	25
1304 306 077		DAF	0200B	25	1304 332 044	<i>150.139</i>	RVI	0160B	10	1304 332 075	<b>109.183</b>	MAN	0080B	18
1304 306 077		DAF	0220B	33	1304 332 044	<i>150.139</i>	DAF	0230B	10	1304 332 075	<b>109.183</b>	IVE	0100B	18
1304 306 096		MAN	0050B	23	1304 332 059	See	1304 332 178			1304 332 075	<b>109.183</b>	IVE	0110B	25
1304 306 096		MAN	0070B	31	1304 332 060	<b>150.141</b>	MAN	0070B	17	1304 332 075	<b>109.183</b>	IVE	0120B	18
1304 306 096		IVE	0110B	31	1304 332 060	<b>150.141</b>	MAN	0080B	10	1304 332 075	<b>109.183</b>	RVI	0145B	18
1304 306 096		RVI	0150B	31	1304 332 060	<b>150.141</b>	IVE	0110B	17	1304 332 075	<b>109.183</b>	RVI	0150B	25
1304 306 096		DAF	0190B	23	1304 332 060	<b>150.141</b>	IVE	0120B	10	1304 332 075	<b>109.183</b>	RVI	0160B	18
1304 306 096		DAF	0220B	31	1304 332 060	<b>150.141</b>	RVI	0150B	17	1304 332 075	<b>109.183</b>	DAF	0190B	18
1304 306 096		KAS	0290B	23	1304 332 060	<b>150.141</b>	RVI	0160B	10	1304 332 075	<b>109.183</b>	DAF	0220B	25
1304 306 102		MAN	0060B	23	1304 332 060	<b>150.141</b>	DAF	0220B	17	1304 332 075	<b>109.183</b>	DAF	0230B	18
1304 306 102		IVE	0100B	23	1304 332 060	<b>150.141</b>	DAF	0230B	10	1304 332 075	<b>109.183</b>	KAS	0290B	18
1304 306 102		RVI	0145B	23	1304 332 065	See	1304 332 089			1304 332 075	<b>109.183</b>	KAS	0300B	18
1304 306 102		KAS	0300B	23	1304 332 066	<b>157.205</b>	MAN	0050B	14	1304 332 089	<b>154.210</b>	MAN	0050B	15
1304 306 103		MAN	0060B	23	1304 332 066	<b>157.205</b>	MAN	0060B	14	1304 332 089	<b>154.210</b>	MAN	0060B	15
1304 306 103		IVE	0100B	23	1304 332 066	<b>157.205</b>	MAN	0070B	21	1304 332 089	<b>154.210</b>	MAN	0070B	22
1304 306 103		RVI	0145B	23	1304 332 066	<b>157.205</b>	MAN	0080B	14	1304 332 089	<b>154.210</b>	MAN	0080B	15
1304 306 103		KAS	0300B	23	1304 332 066	<b>157.205</b>	IVE	0100B	14	1304 332 089	<b>154.210</b>	IVE	0100B	15
1304 306 107	<b>141.195</b>	MAN	0060B	33	1304 332 066	<b>157.205</b>	IVE	0110B	21	1304 332 089	<b>154.210</b>	IVE	0110B	22
1304 306 107	<b>141.195</b>	IVE	0100B	33	1304 332 066	<b>157.205</b>	IVE	0120B	14	1304 332 089	<b>154.210</b>	IVE	0120B	15
1304 306 107	<b>141.195</b>	RVI	0145B	33	1304 332 066	<b>157.205</b>	RVI	0145B	14	1304 332 089	<b>154.210</b>	RVI	0145B	15
1304 306 107	<b>141.195</b>	KAS	0300B	33	1304 332 066	<b>157.205</b>	RVI	0150B	21	1304 332 089	<b>154.210</b>	RVI	0150B	22
1304 312 003		MAN	0080B 27A		1304 332 066	<b>157.205</b>	RVI	0160B	14	1304 332 089	<b>154.210</b>	RVI	0160B	15
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1304 312 003		DAF	0230B 27A		1304 332 066	<b>157.205</b>	DAF	0230B	14	1304 332 089	<b>154.210</b>	DAF	0230B	15
1304 313 133	<b>109.397</b>	MAN	0050B	19	1304 332 066	<b>157.205</b>	KAS	0290B	14	1304 332 089	<b>154.210</b>	KAS	0290B	15
1304 313 133	<b>109.397</b>	MAN	0060B	19	1304 332 066	<b>157.205</b>	KAS	0300B	14	1304 332 089	<b>154.210</b>	KAS	0300B	15
1304 313 133	<b>109.397</b>	MAN	0080B	19	1304 332 070	<i>107.203</i>	MAN	0050B	2	1304 332 111	<b>107.157</b>	MAN	0060B	2
1304 313 133	<b>109.397</b>	IVE	0100B	19	1304 332 070	<i>107.203</i>	DAF	0190B	2	1304 332 111	<b>107.157</b>	MAN	0070B	2

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1304 332 111	107.157	MAN	0080B	2	1304 332 215	150.135	RVI	0150B	17	1304 333 021	119.171	MAN	0060B	13
1304 332 111	107.157	IVE	0100B	2	1304 332 215	150.135	RVI	0160B	10	1304 333 021	119.171	MAN	0070B	20
1304 332 111	107.157	IVE	0110B	2	1304 332 215	150.135	DAF	0200B	10	1304 333 021	119.171	MAN	0080B	13
1304 332 111	107.157	IVE	0110B	9	1304 332 215	150.135	DAF	0220B	17	1304 333 021	119.171	IVE	0100B	13
1304 332 111	107.157	IVE	0120B	2	1304 332 215	150.135	DAF	0230B	10	1304 333 021	119.171	IVE	0110B	20
1304 332 111	107.157	RVI	0145B	2	1304 332 216	150.166	MAN	0080B	10	1304 333 021	119.171	IVE	0120B	13
1304 332 111	107.157	RVI	0150B	2	1304 332 216	150.166	IVE	0120B	10	1304 333 021	119.171	RVI	0145B	13
1304 332 111	107.157	RVI	0150B	9	1304 332 216	150.166	RVI	0160B	10	1304 333 021	119.171	RVI	0150B	20
1304 332 111	107.157	RVI	0160B	2	1304 332 216	150.166	DAF	0230B	10	1304 333 021	119.171	RVI	0160B	13
1304 332 111	107.157	DAF	0200B	2	1304 332 217	150.167	MAN	0080B	10	1304 333 021	119.171	DAF	0190B	13
1304 332 111	107.157	DAF	0220B	2	1304 332 217	150.167	IVE	0120B	10	1304 333 021	119.171	DAF	0220B	20
1304 332 111	107.157	DAF	0220B	9	1304 332 217	150.167	RVI	0160B	10	1304 333 021	119.171	DAF	0230B	13
1304 332 111	107.157	DAF	0230B	2	1304 332 217	150.167	DAF	0230B	10	1304 333 021	119.171	KAS	0290B	13
1304 332 111	107.157	KAS	0300B	2	1304 333 004	See	1304 333 005			1304 333 021	119.171	KAS	0300B	13
1304 332 122	123.265	MAN	0060B	8	1304 333 005	119.157	MAN	0050B	13	1304 334 008	See	1304 212 005		
1304 332 122	123.265	IVE	0100B	8	1304 333 005	119.157	MAN	0060B	13	1304 334 038	See	1304 212 005		
1304 332 122	123.265	RVI	0145B	8	1304 333 005	119.157	MAN	0070B	20	1304 334 039		MAN	0050B	27
1304 332 122	123.265	KAS	0300B	8	1304 333 005	119.157	MAN	0080B	13	1304 334 039		MAN	0060B	27
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1304 332 178	123.210	DAF	0200B	8	1304 333 011	154.201	IVE	0100B	15	1304 334 061		MAN	0060B	30
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1304 332 210	150.213	KAS	0300B	10	1304 333 011	154.201	DAF	0200B	15	1304 334 061		RVI	0145B	30
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1304 334 072		MAN	0060B	29	1304 338 047		KAS	0290B	21	1304 338 060		RVI	0150B	29
1304 334 072		MAN	0070B	37	1304 338 050		MAN	0060B	21	1304 338 060		DAF	0220B	29
1304 334 072		MAN	0080B	34	1304 338 050		MAN	0070B	29	1304 338 066		MAN	0050B	21
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1304 334 079		MAN	0070B	41	1304 338 052		IVE	0110B	29	1304 338 097		MAN	0080B	22
1304 334 079		MAN	0080B	38	1304 338 052		IVE	0120B	22	1304 338 097		IVE	0100B	21
1304 334 079		IVE	0100B	32	1304 338 052		RVI	0150B	29	1304 338 097		IVE	0110B	29
1304 334 079		IVE	0110B	41	1304 338 052		RVI	0160B	22	1304 338 097		IVE	0120B	22
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1304 338 109		MAN	0080B	22	1308 202 050		MB	0020A	3	1308 302 096	See		1308 202 052	
1304 338 109		IVE	0110B	29	1308 202 050		DAF	0210A	3	1308 303 021	143.124	MB	0020A	37
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1304 338 109		RVI	0150B	29	1308 202 052	190.331	MB	0020A	3	1308 303 021	143.124	VOL	0260A	37
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1304 338 109		DAF	0220B	29	1308 202 052	190.331	VOL	0260A	3	1308 303 022	105.189	DAF	0210A	38
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1304 343 060		DAF	0190B	21	1308 232 006	198.735	DAF	0210B	19	1308 303 027	146.585	DAF	0210A	36
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1307 203 019		MB	0020A	4	1308 232 007	198.736	VOL	0260B	8	1308 304 051	109.136	VOL	0260A	27
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1307 203 019		VOL	0260A	4	1308 232 009		DAF	0210B	1	1308 304 052	147.237	DAF	0210A	30
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1307 304 156	139.553	MB	0020A	10	1308 232 010	109.394	MB	0020B	19	1308 304 053	103.137	MB	0020A	24
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1307 304 607	157.219	VOL	0260A	7	1308 233 003	198.734	MB	0020B	13	1308 304 057	145.838	DAF	0210A	22
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1308 304 076	See	1308 304 090			1308 332 004	107.138	DAF	0210B	2	1310 298 003	298.040	KAS	00270	58
1308 304 077	<b>109.137</b>	MB	0020A	17	1308 332 004	107.138	VOL	0260B	2	1310 298 018	298.041	MAN	00040	57
1308 304 077	<b>109.137</b>	DAF	0210A	17	1308 332 015	<b>154.172</b>	MB	0020B	16	1310 298 018	298.041	RVI	00140	57
1308 304 077	<b>109.137</b>	VOL	0260A	17	1308 332 015	<b>154.172</b>	DAF	0210B	16	1310 298 018	298.041	DAF	00180	57
1308 304 078	<b>109.135</b>	MB	0020A	5	1308 332 015	<b>154.172</b>	VOL	0260B	16	1310 298 018	298.041	VOL	00250	57
1308 304 078	<b>109.135</b>	DAF	0210A	5	1308 332 026	<b>123.218</b>	MB	0020B	9	1310 298 018	298.041	KAS	00280	57
1308 304 078	<b>109.135</b>	VOL	0260A	5	1308 332 026	<b>123.218</b>	DAF	0210B	9	1310 298 020	298.042	MAN	00040	58
1308 304 086	145.837	MB	0020A	26	1308 332 026	<b>123.218</b>	VOL	0260B	9	1310 298 020	298.042	RVI	00140	58
1308 304 086	145.837	DAF	0210A	26	1308 332 034	150.165	MB	0020B	11	1310 298 020	298.042	DAF	00180	58
1308 304 086	145.837	VOL	0260A	26	1308 332 034	150.165	DAF	0210B	11	1310 298 020	298.042	VOL	00250	58
1308 304 087	154.364	MB	0020A	28	1308 332 034	150.165	VOL	0260B	11	1310 298 020	298.042	KAS	00280	58
1308 304 087	154.364	DAF	0210A	28	1308 332 036	157.704	MB	0020B	15	1310 302 001	102.387	MB	00010	3
1308 304 087	154.364	VOL	0260A	28	1308 332 036	157.704	DAF	0210B	15	1310 302 001	102.387	MAN	00030	3
1308 304 090	<b>154.170</b>	MB	0020A	8	1308 332 036	157.704	VOL	0260B	15	1310 302 001	102.387	IVE	00090	3
1308 304 090	<b>154.170</b>	DAF	0210A	8	1308 334 001		MB	0020B	26	1310 302 001	102.387	RVI	00130	3
1308 304 090	<b>154.170</b>	VOL	0260A	8	1308 334 001		DAF	0210B	26	1310 302 001	102.387	DAF	00170	3
1308 304 091	<b>154.171</b>	MB	0020A	20	1308 334 001		VOL	0260B	26	1310 302 001	102.387	VOL	00240	3
1308 304 091	<b>154.171</b>	DAF	0210A	20	1308 334 011		MB	0020B	29	1310 302 001	102.387	KAS	00270	3
1308 304 091	<b>154.171</b>	VOL	0260A	20	1308 334 011		DAF	0210B	29	1310 302 021	102.392	MB	00010	3
1308 304 094	See	1308 304 096			1308 334 011		VOL	0260B	29	1310 302 021	102.392	MAN	00030	3
1308 304 095	See	1308 304 097			1308 334 013	See	1308 334 011			1310 302 021	102.392	IVE	00090	3
1308 304 096	<b>119.141</b>	MB	0020A	18	1308 338 013		MB	0020B	21	1310 302 021	102.392	RVI	00130	3
1308 304 096	<b>119.141</b>	DAF	0210A	18	1308 338 013		DAF	0210B	21	1310 302 021	102.392	DAF	00170	3
1308 304 096	<b>119.141</b>	VOL	0260A	18	1308 338 013		VOL	0260B	21	1310 302 021	102.392	VOL	00240	3
1308 304 097	<b>119.117</b>	MB	0020A	6	1308 338 017		MB	0020B	21	1310 302 021	102.392	KAS	00270	3
1308 304 097	<b>119.117</b>	DAF	0210A	6	1308 338 017		DAF	0210B	21	1310 302 022	102.391	MB	00010	3
1308 304 097	<b>119.117</b>	VOL	0260A	6	1308 338 017		VOL	0260B	21	1310 302 022	102.391	MAN	00030	3
1308 305 001		MB	0020A	42	1308 338 026		MB	0020B	21	1310 302 022	102.391	IVE	00090	3
1308 305 001		DAF	0210A	42	1308 338 026		DAF	0210B	21	1310 302 022	102.391	RVI	00130	3
1308 305 001		VOL	0260A	42	1308 338 026		VOL	0260B	21	1310 302 022	102.391	DAF	00170	3
1308 306 035	See	1308 306 067			1310 298 002	298.039	MB	00010	57	1310 302 022	102.391	VOL	00240	3
1308 306 037		MB	0020B	23	1310 298 002	298.039	MAN	00030	57	1310 302 022	102.391	KAS	00270	3
1308 306 037		DAF	0210B	23	1310 298 002	298.039	IVE	00090	57	1310 302 023	<b>109.400</b>	MB	00010	5
1308 306 037		VOL	0260B	23	1310 298 002	298.039	RVI	00130	57	1310 302 023	<b>109.400</b>	MAN	00030	5
1308 306 038	See	1308 306 081			1310 298 002	298.039	DAF	00170	57	1310 302 023	<b>109.400</b>	IVE	00090	5
1308 306 044	See	1308 306 067			1310 298 002	298.039	VOL	00240	57	1310 302 023	<b>109.400</b>	RVI	00130	5
1308 306 067		MB	0020B	24	1310 298 002	298.039	KAS	00270	57	1310 302 023	<b>109.400</b>	DAF	00170	5
1308 306 067		DAF	0210B	24	1310 298 003	298.040	MB	00010	58	1310 302 023	<b>109.400</b>	VOL	00240	5
1308 306 067		VOL	0260B	24	1310 298 003	298.040	MAN	00030	58	1310 302 023	<b>109.400</b>	KAS	00270	5
1308 306 081		MB	0020B	22	1310 298 003	298.040	IVE	00090	58	1310 302 024	<b>109.401</b>	MB	00010	5
1308 306 081		DAF	0210B	22	1310 298 003	298.040	RVI	00130	58	1310 302 024	<b>109.401</b>	MAN	00030	5
1308 306 081		VOL	0260B	22	1310 298 003	298.040	DAF	00170	58	1310 302 024	<b>109.401</b>	IVE	00090	5
1308 332 004	107.138	MB	0020B	2	1310 298 003	298.040	VOL	00240	58	1310 302 024	<b>109.401</b>	RVI	00130	5

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1310 302 024	<b>109.401</b>	DAF	00170	5	1310 302 088	102.397	DAF	00180	3	1310 303 032	146.600	RVI	00130	48
1310 302 024	<b>109.401</b>	VOL	00240	5	1310 302 088	102.397	VOL	00250	3	1310 303 032	146.600	DAF	00170	48
1310 302 024	<b>109.401</b>	KAS	00270	5	1310 302 088	102.397	KAS	00280	3	1310 303 032	146.600	VOL	00240	48
1310 302 025	102.388	MB	00010	3	1310 302 089	<b>102.396</b>	MAN	00040	3	1310 303 032	146.600	KAS	00270	48
1310 302 025	102.388	MAN	00030	3	1310 302 089	<b>102.396</b>	RVI	00140	3	1310 303 033	146.609	MB	00010	49
1310 302 025	102.388	IVE	00090	3	1310 302 089	<b>102.396</b>	DAF	00180	3	1310 303 033	146.609	MAN	00030	49
1310 302 025	102.388	RVI	00130	3	1310 302 089	<b>102.396</b>	VOL	00250	3	1310 303 033	146.609	IVE	00090	49
1310 302 025	102.388	DAF	00170	3	1310 302 089	<b>102.396</b>	KAS	00280	3	1310 303 033	146.609	RVI	00130	49
1310 302 025	102.388	VOL	00240	3	1310 302 090	102.398	MAN	00040	3	1310 303 033	146.609	DAF	00170	49
1310 302 025	102.388	KAS	00270	3	1310 302 090	102.398	RVI	00140	3	1310 303 033	146.609	VOL	00240	49
1310 302 026	102.390	MB	00010	3	1310 302 090	102.398	DAF	00180	3	1310 303 033	146.609	KAS	00270	49
1310 302 026	102.390	MAN	00030	3	1310 302 090	102.398	VOL	00250	3	1310 303 044	146.605	MB	00010	48
1310 302 026	102.390	IVE	00090	3	1310 302 090	102.398	KAS	00280	3	1310 303 044	146.605	MAN	00030	48
1310 302 026	102.390	RVI	00130	3	1310 302 092	102.400	MAN	00040	3	1310 303 044	146.605	IVE	00090	48
1310 302 026	102.390	DAF	00170	3	1310 302 092	102.400	RVI	00140	3	1310 303 044	146.605	RVI	00130	48
1310 302 026	102.390	VOL	00240	3	1310 302 092	102.400	DAF	00180	3	1310 303 044	146.605	DAF	00170	48
1310 302 026	102.390	KAS	00270	3	1310 302 092	102.400	VOL	00250	3	1310 303 044	146.605	VOL	00240	48
1310 302 032	102.389	MB	00010	3	1310 302 092	102.400	KAS	00280	3	1310 303 044	146.605	KAS	00270	48
1310 302 032	102.389	MAN	00030	3	1310 302 094	102.394	MAN	00040	3	1310 303 045	146.610	MB	00010	49
1310 302 032	102.389	IVE	00090	3	1310 302 094	102.394	RVI	00140	3	1310 303 045	146.610	MAN	00030	49
1310 302 032	102.389	RVI	00130	3	1310 302 094	102.394	DAF	00180	3	1310 303 045	146.610	IVE	00090	49
1310 302 032	102.389	DAF	00170	3	1310 302 094	102.394	VOL	00250	3	1310 303 045	146.610	RVI	00130	49
1310 302 032	102.389	VOL	00240	3	1310 302 094	102.394	KAS	00280	3	1310 303 045	146.610	DAF	00170	49
1310 302 032	102.389	KAS	00270	3	1310 302 096	102.399	MAN	00040	3	1310 303 045	146.610	VOL	00240	49
1310 302 033	102.393	MB	00010	3	1310 302 096	102.399	RVI	00140	3	1310 303 045	146.610	KAS	00270	49
1310 302 033	102.393	MAN	00030	3	1310 302 096	102.399	DAF	00180	3	1310 303 047	See	1310 303 052		
1310 302 033	102.393	IVE	00090	3	1310 302 096	102.399	VOL	00250	3	1310 303 050	146.612	MB	00010	50
1310 302 033	102.393	RVI	00130	3	1310 302 096	102.399	KAS	00280	3	1310 303 050	146.612	MAN	00030	50
1310 302 033	102.393	DAF	00170	3	1310 302 097	102.395	MAN	00040	3	1310 303 050	146.612	IVE	00090	50
1310 302 033	102.393	VOL	00240	3	1310 302 097	102.395	RVI	00140	3	1310 303 050	146.612	RVI	00130	50
1310 302 033	102.393	KAS	00270	3	1310 302 097	102.395	DAF	00180	3	1310 303 050	146.612	DAF	00170	50
1310 302 045	<b>109.403</b>	MAN	00040	5	1310 302 097	102.395	VOL	00250	3	1310 303 050	146.612	VOL	00240	50
1310 302 045	<b>109.403</b>	RVI	00140	5	1310 302 097	102.395	KAS	00280	3	1310 303 050	146.612	KAS	00270	50
1310 302 045	<b>109.403</b>	DAF	00180	5	1310 303 031	146.613	MB	00010	51	1310 303 051	146.611	MB	00010	50
1310 302 045	<b>109.403</b>	VOL	00250	5	1310 303 031	146.613	MAN	00030	51	1310 303 051	146.611	MAN	00030	50
1310 302 045	<b>109.403</b>	KAS	00280	5	1310 303 031	146.613	IVE	00090	51	1310 303 051	146.611	IVE	00090	50
1310 302 082	102.401	MAN	00040	3	1310 303 031	146.613	RVI	00130	51	1310 303 051	146.611	RVI	00130	50
1310 302 082	102.401	RVI	00140	3	1310 303 031	146.613	DAF	00170	51	1310 303 051	146.611	DAF	00170	50
1310 302 082	102.401	DAF	00180	3	1310 303 031	146.613	VOL	00240	51	1310 303 051	146.611	VOL	00240	50
1310 302 082	102.401	VOL	00250	3	1310 303 031	146.613	KAS	00270	51	1310 303 051	146.611	KAS	00270	50
1310 302 082	102.401	KAS	00280	3	1310 303 032	146.600	MB	00010	48	1310 303 052	146.614	MB	00010	51
1310 302 088	102.397	MAN	00040	3	1310 303 032	146.600	MAN	00030	48	1310 303 052	146.614	MAN	00030	51
1310 302 088	102.397	RVI	00140	3	1310 303 032	146.600	IVE	00090	48	1310 303 052	146.614	IVE	00090	51

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1310 303 052	146.614	RVI	00130	51	1310 303 073	146.622	VOL	00250	51	1310 304 085	145.890	IVE	00090	25
1310 303 052	146.614	DAF	00170	51	1310 303 073	146.622	KAS	00280	51	1310 304 085	145.890	RVI	00130	25
1310 303 052	146.614	VOL	00240	51	1310 303 074	146.618	MAN	00040	49	1310 304 085	145.890	DAF	00170	25
1310 303 052	146.614	KAS	00270	51	1310 303 074	146.618	RVI	00140	49	1310 304 085	145.890	VOL	00240	25
1310 303 053	105.192	MAN	00040	52	1310 303 074	146.618	DAF	00180	49	1310 304 085	145.890	KAS	00270	25
1310 303 053	105.192	RVI	00140	52	1310 303 074	146.618	VOL	00250	49	1310 304 086	See	1310 304 124		
1310 303 053	105.192	DAF	00180	52	1310 303 074	146.618	KAS	00280	49	1310 304 088	145.888	MB	00010	18
1310 303 053	105.192	VOL	00250	52	1310 303 075	146.620	MAN	00040	50	1310 304 088	145.888	MAN	00030	18
1310 303 053	105.192	KAS	00280	52	1310 303 075	146.620	RVI	00140	50	1310 304 088	145.888	IVE	00090	18
1310 303 055	See	1310 303 068			1310 303 075	146.620	DAF	00180	50	1310 304 088	145.888	RVI	00130	18
1310 303 056	See	1310 303 069			1310 303 075	146.620	VOL	00250	50	1310 304 088	145.888	DAF	00170	18
1310 303 058	See	1310 303 074			1310 303 075	146.620	KAS	00280	50	1310 304 088	145.888	VOL	00240	18
1310 303 059	146.617	MAN	00040	49	1310 303 076	105.191	MB	00010	52	1310 304 088	145.888	KAS	00270	18
1310 303 059	146.617	RVI	00140	49	1310 303 076	105.191	MAN	00030	52	1310 304 091	145.886	MB	00010	13
1310 303 059	146.617	DAF	00180	49	1310 303 076	105.191	IVE	00090	52	1310 304 091	145.886	MAN	00030	13
1310 303 059	146.617	VOL	00250	49	1310 303 076	105.191	RVI	00130	52	1310 304 091	145.886	IVE	00090	13
1310 303 059	146.617	KAS	00280	49	1310 303 076	105.191	DAF	00170	52	1310 304 091	145.886	RVI	00130	13
1310 303 061	See	1310 303 075			1310 303 076	105.191	VOL	00240	52	1310 304 091	145.886	DAF	00170	13
1310 303 062	146.619	MAN	00040	50	1310 303 076	105.191	KAS	00270	52	1310 304 091	145.886	VOL	00240	13
1310 303 062	146.619	RVI	00140	50	1310 304 011	145.893	MB	00010	41	1310 304 091	145.886	KAS	00270	13
1310 303 062	146.619	DAF	00180	50	1310 304 011	145.893	MAN	00030	41	1310 304 092	145.887	MB	00010	13
1310 303 062	146.619	VOL	00250	50	1310 304 011	145.893	IVE	00090	41	1310 304 092	145.887	MAN	00030	13
1310 303 062	146.619	KAS	00280	50	1310 304 011	145.893	RVI	00130	41	1310 304 092	145.887	IVE	00090	13
1310 303 064	See	1310 303 073			1310 304 011	145.893	DAF	00170	41	1310 304 092	145.887	RVI	00130	13
1310 303 065	See	1310 303 072			1310 304 011	145.893	VOL	00240	41	1310 304 092	145.887	DAF	00170	13
1310 303 068	146.616	MAN	00040	48	1310 304 011	145.893	KAS	00270	41	1310 304 092	145.887	VOL	00240	13
1310 303 068	146.616	RVI	00140	48	1310 304 012	145.892	MB	00010	30	1310 304 092	145.887	KAS	00270	13
1310 303 068	146.616	DAF	00180	48	1310 304 012	145.892	MAN	00030	30	1310 304 093	145.889	MB	00010	18
1310 303 068	146.616	VOL	00250	48	1310 304 012	145.892	IVE	00090	30	1310 304 093	145.889	MAN	00030	18
1310 303 068	146.616	KAS	00280	48	1310 304 012	145.892	RVI	00130	30	1310 304 093	145.889	IVE	00090	18
1310 303 069	146.615	MAN	00040	48	1310 304 012	145.892	DAF	00170	30	1310 304 093	145.889	RVI	00130	18
1310 303 069	146.615	RVI	00140	48	1310 304 012	145.892	VOL	00240	30	1310 304 093	145.889	DAF	00170	18
1310 303 069	146.615	DAF	00180	48	1310 304 012	145.892	KAS	00270	30	1310 304 093	145.889	VOL	00240	18
1310 303 069	146.615	VOL	00250	48	1310 304 067	See	1316 304 078			1310 304 093	145.889	KAS	00270	18
1310 303 069	146.615	KAS	00280	48	1310 304 080	157.707	MB	00010	21	1310 304 112	See	1310 304 085		
1310 303 072	146.621	MAN	00040	51	1310 304 080	157.707	MAN	00030	21	1310 304 115	See	1310 304 011		
1310 303 072	146.621	RVI	00140	51	1310 304 080	157.707	IVE	00090	21	1310 304 117	See	1310 304 012		
1310 303 072	146.621	DAF	00180	51	1310 304 080	157.707	RVI	00130	21	1310 304 124	145.891	MB	00010	25
1310 303 072	146.621	VOL	00250	51	1310 304 080	157.707	DAF	00170	21	1310 304 124	145.891	MAN	00030	25
1310 303 072	146.621	KAS	00280	51	1310 304 080	157.707	VOL	00240	21	1310 304 124	145.891	IVE	00090	25
1310 303 073	146.622	MAN	00040	51	1310 304 080	157.707	KAS	00270	21	1310 304 124	145.891	RVI	00130	25
1310 303 073	146.622	RVI	00140	51	1310 304 085	145.890	MB	00010	25	1310 304 124	145.891	DAF	00170	25
1310 303 073	146.622	DAF	00180	51	1310 304 085	145.890	MAN	00030	25	1310 304 124	145.891	VOL	00240	25

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1310 304 137	145.895	MAN	00040	13	1310 304 177	145.897	RVI	00140	18	1310 304 196	145.900	VOL	00250	27
1310 304 137	145.895	RVI	00140	13	1310 304 177	145.897	DAF	00180	18	1310 304 196	145.900	KAS	00280	27
1310 304 137	145.895	DAF	00180	13	1310 304 177	145.897	VOL	00250	18	1310 304 200	147.238	MB	00010	44
1310 304 137	145.895	VOL	00250	13	1310 304 177	145.897	KAS	00280	18	1310 304 200	147.238	MAN	00030	44
1310 304 137	145.895	KAS	00280	13	1310 304 178	145.896	MAN	00040	18	1310 304 200	147.238	IVE	00090	44
1310 304 138	145.894	MAN	00040	13	1310 304 178	145.896	RVI	00140	18	1310 304 200	147.238	RVI	00130	44
1310 304 138	145.894	RVI	00140	13	1310 304 178	145.896	DAF	00180	18	1310 304 200	147.238	DAF	00170	44
1310 304 138	145.894	DAF	00180	13	1310 304 178	145.896	VOL	00250	18	1310 304 200	147.238	VOL	00240	44
1310 304 138	145.894	VOL	00250	13	1310 304 178	145.896	KAS	00280	18	1310 304 200	147.238	KAS	00270	44
1310 304 138	145.894	KAS	00280	13	1310 304 182	145.901	MAN	00040	41	1310 304 201	147.240	MAN	00040	45
1310 304 156	See	1310 304 200			1310 304 182	145.901	RVI	00140	41	1310 304 201	147.240	RVI	00140	45
1310 304 157	157.708	MB	00010	35	1310 304 182	145.901	DAF	00180	41	1310 304 201	147.240	DAF	00180	45
1310 304 157	157.708	MAN	00030	35	1310 304 182	145.901	VOL	00250	41	1310 304 201	147.240	VOL	00250	45
1310 304 157	157.708	IVE	00090	35	1310 304 182	145.901	KAS	00280	41	1310 304 201	147.240	KAS	00280	45
1310 304 157	157.708	RVI	00130	35	1310 304 183	See	1310 304 196			1310 304 202	154.135	MB	00010	22
1310 304 157	157.708	DAF	00170	35	1310 304 185	145.899	MAN	00040	23	1310 304 202	154.135	MAN	00030	22
1310 304 157	157.708	VOL	00240	35	1310 304 185	145.899	RVI	00140	23	1310 304 202	154.135	MAN	00040	22
1310 304 157	157.708	KAS	00270	35	1310 304 185	145.899	DAF	00180	23	1310 304 202	154.135	IVE	00090	22
1310 304 158	157.710	MAN	00040	8	1310 304 185	145.899	VOL	00250	23	1310 304 202	154.135	RVI	00130	22
1310 304 158	157.710	RVI	00140	8	1310 304 185	145.899	KAS	00280	23	1310 304 202	154.135	RVI	00140	22
1310 304 158	157.710	DAF	00180	8	1310 304 186	145.898	MAN	00040	23	1310 304 202	154.135	DAF	00170	22
1310 304 158	157.710	VOL	00250	8	1310 304 186	145.898	RVI	00140	23	1310 304 202	154.135	DAF	00180	22
1310 304 158	157.710	KAS	00280	8	1310 304 186	145.898	DAF	00180	23	1310 304 202	154.135	VOL	00240	22
1310 304 161	109.404	MAN	00040	10	1310 304 186	145.898	VOL	00250	23	1310 304 202	154.135	VOL	00250	22
1310 304 161	109.404	RVI	00140	10	1310 304 186	145.898	KAS	00280	23	1310 304 202	154.135	KAS	00270	22
1310 304 161	109.404	DAF	00180	10	1310 304 188	157.711	MAN	00040	42	1310 304 202	154.135	KAS	00280	22
1310 304 161	109.404	VOL	00250	10	1310 304 188	157.711	RVI	00140	42	1310 305 001	107.201	MB	00010	56
1310 304 161	109.404	KAS	00280	10	1310 304 188	157.711	DAF	00180	42	1310 305 001	107.201	MAN	00030	56
1310 304 165	See	1310 304 201			1310 304 188	157.711	VOL	00250	42	1310 305 001	107.201	MAN	00040	56
1310 304 174	See	1310 304 202			1310 304 188	157.711	KAS	00280	42	1310 305 001	107.201	IVE	00090	56
1310 304 175	154.190	MB	00010	36	1310 304 189	103.196	MAN	00040	25	1310 305 001	107.201	RVI	00130	56
1310 304 175	154.190	MAN	00030	36	1310 304 189	103.196	RVI	00140	25	1310 305 001	107.201	RVI	00140	56
1310 304 175	154.190	MAN	00040	33	1310 304 189	103.196	DAF	00180	25	1310 305 001	107.201	DAF	00170	56
1310 304 175	154.190	IVE	00090	36	1310 304 189	103.196	VOL	00250	25	1310 305 001	107.201	DAF	00180	56
1310 304 175	154.190	RVI	00130	36	1310 304 189	103.196	KAS	00280	25	1310 305 001	107.201	VOL	00240	56
1310 304 175	154.190	RVI	00140	33	1310 304 195	154.371	MAN	00040	9	1310 305 001	107.201	VOL	00250	56
1310 304 175	154.190	DAF	00170	36	1310 304 195	154.371	RVI	00140	9	1310 305 001	107.201	KAS	00270	56
1310 304 175	154.190	DAF	00180	33	1310 304 195	154.371	DAF	00180	9	1310 305 001	107.201	KAS	00280	56
1310 304 175	154.190	VOL	00240	36	1310 304 195	154.371	VOL	00250	9	1310 305 003	147.239	MB	00010	55
1310 304 175	154.190	VOL	00250	33	1310 304 195	154.371	KAS	00280	9	1310 305 003	147.239	MAN	00030	55
1310 304 175	154.190	KAS	00270	36	1310 304 196	145.900	MAN	00040	27	1310 305 003	147.239	IVE	00090	55
1310 304 175	154.190	KAS	00280	33	1310 304 196	145.900	RVI	00140	27	1310 305 003	147.239	RVI	00130	55

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1310 305 003	147.239	VOL	00240	55	1311 304 226	157.706	VOL	00240	8	1312 304 052	157.180	DAF	00180	21
1310 305 003	147.239	KAS	00270	55	1311 304 226	157.706	KAS	00270	8	1312 304 052	157.180	VOL	00250	21
1310 305 006	See	1310 305 011			1311 304 248	103.195	MB	00010	27	1312 304 052	157.180	KAS	00280	21
1310 305 011	147.241	MAN	00040	55	1311 304 248	103.195	MAN	00030	27	1312 304 097	See	1312 304 150		
1310 305 011	147.241	RVI	00140	55	1311 304 248	103.195	IVE	00090	27	1312 304 106	109.176	MB	00010	31
1310 305 011	147.241	DAF	00180	55	1311 304 248	103.195	RVI	00130	27	1312 304 106	109.176	MAN	00030	31
1310 305 011	147.241	VOL	00250	55	1311 304 248	103.195	DAF	00170	27	1312 304 106	109.176	MAN	00040	28
1310 305 011	147.241	KAS	00280	55	1311 304 248	103.195	VOL	00240	27	1312 304 106	109.176	IVE	00090	31
1311 304 009	109.402	MB	00010	10	1311 304 248	103.195	KAS	00270	27	1312 304 106	109.176	RVI	00130	31
1311 304 009	109.402	MAN	00030	10	1311 304 250	157.709	MB	00010	42	1312 304 106	109.176	RVI	00140	28
1311 304 009	109.402	IVE	00090	10	1311 304 250	157.709	MAN	00030	42	1312 304 106	109.176	DAF	00170	31
1311 304 009	109.402	RVI	00130	10	1311 304 250	157.709	IVE	00090	42	1312 304 106	109.176	DAF	00180	28
1311 304 009	109.402	DAF	00170	10	1311 304 250	157.709	RVI	00130	42	1312 304 106	109.176	VOL	00240	31
1311 304 009	109.402	VOL	00240	10	1311 304 250	157.709	DAF	00170	42	1312 304 106	109.176	VOL	00250	28
1311 304 009	109.402	KAS	00270	10	1311 304 250	157.709	VOL	00240	42	1312 304 106	109.176	KAS	00270	31
1311 304 015	109.392	MAN	0060A	17	1311 304 250	157.709	KAS	00270	42	1312 304 106	109.176	KAS	00280	28
1311 304 015	109.392	IVE	0100A	17	1311 304 255	119.220	MB	00010	7	1312 304 150	188.209	MAN	0050A	36
1311 304 015	109.392	RVI	0145A	17	1311 304 255	119.220	MAN	00030	7	1312 304 150	188.209	MAN	0060A	30
1311 304 015	109.392	KAS	0300A	17	1311 304 255	119.220	MAN	0060A	6	1312 304 150	188.209	MAN	0070A	34
1311 304 076	119.219	MB	00010	7	1311 304 255	119.220	IVE	00090	7	1312 304 150	188.209	MAN	0080A	38
1311 304 076	119.219	MAN	00030	7	1311 304 255	119.220	IVE	0100A	6	1312 304 150	188.209	IVE	0100A	30
1311 304 076	119.219	MAN	0060A	6	1311 304 255	119.220	RVI	00130	7	1312 304 150	188.209	IVE	0110A	34
1311 304 076	119.219	IVE	00090	7	1311 304 255	119.220	RVI	0145A	6	1312 304 150	188.209	IVE	0120A	38
1311 304 076	119.219	IVE	0100A	6	1311 304 255	119.220	DAF	00170	7	1312 304 150	188.209	RVI	0145A	30
1311 304 076	119.219	RVI	00130	7	1311 304 255	119.220	VOL	00240	7	1312 304 150	188.209	RVI	0150A	34
1311 304 076	119.219	RVI	0145A	6	1311 304 255	119.220	KAS	00270	7	1312 304 150	188.209	RVI	0160A	38
1311 304 076	119.219	DAF	00170	7	1311 304 255	119.220	KAS	0300A	6	1312 304 150	188.209	DAF	0190A	36
1311 304 076	119.219	VOL	00240	7	1312 302 055	See	1310 304 202			1312 304 150	188.209	DAF	0200A	33
1311 304 076	119.219	KAS	00270	7	1312 302 057	See	1310 304 202			1312 304 150	188.209	DAF	0220A	34
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1311 304 124	117.384	MB	00010	16	1312 304 027	109.134	MAN	00030	19	1312 304 150	188.209	KAS	0290A	36
1311 304 124	117.384	MAN	00030	16	1312 304 027	109.134	MAN	00040	19	1312 304 150	188.209	KAS	0300A	30
1311 304 124	117.384	IVE	00090	16	1312 304 027	109.134	IVE	00090	19	1312 304 157	See	1310 304 175		
1311 304 124	117.384	RVI	00130	16	1312 304 027	109.134	RVI	00130	19	1312 304 158	157.181	MAN	00040	32
1311 304 124	117.384	DAF	00170	16	1312 304 027	109.134	RVI	00140	19	1312 304 158	157.181	RVI	00140	32
1311 304 124	117.384	VOL	00240	16	1312 304 027	109.134	DAF	00170	19	1312 304 158	157.181	DAF	00180	32
1311 304 124	117.384	KAS	00270	16	1312 304 027	109.134	DAF	00180	19	1312 304 158	157.181	VOL	00250	32
1311 304 225	See	1311 304 248			1312 304 027	109.134	VOL	00240	19	1312 304 158	157.181	KAS	00280	32
1311 304 226	157.706	MB	00010	8	1312 304 027	109.134	VOL	00250	19	1312 304 159	156.176	MB	00005	32
1311 304 226	157.706	MAN	00030	8	1312 304 027	109.134	KAS	00270	19	1312 304 159	156.176	MB	00010	39
1311 304 226	157.706	IVE	00090	8	1312 304 027	109.134	KAS	00280	19	1312 304 159	156.176	MAN	00025	32
1311 304 226	157.706	RVI	00130	8	1312 304 052	157.180	MAN	00040	21	1312 304 159	156.176	MAN	00030	39

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1312 304 159	156.176	IVE	00087	32	1315 334 041		RVI	0150B	40	1319 304 037	154.412	RVI	00125	17
1312 304 159	156.176	IVE	00090	39	1315 334 041		RVI	0160B	37	1319 304 051	119.264	IVE	00085	42
1312 304 159	156.176	RVI	00130	39	1315 334 041		DAF	0200B	31	1319 304 051	119.264	RVI	00125	42
1312 304 159	156.176	RVI	00140	34	1315 334 041		DAF	0220B	40	1319 304 053	119.262	IVE	00085	16
1312 304 159	156.176	DAF	00165	32	1315 334 041		DAF	0230B	37	1319 304 053	119.262	RVI	00125	16
1312 304 159	156.176	DAF	00170	39	1315 334 041		KAS	0300B	31	1322 202 004	102.415	IVE	00083	3
1312 304 159	156.176	DAF	00180	34	1316 304 078	154.202	MAN	00040	38	1322 202 004	102.415	RVI	00123	3
1312 304 159	156.176	DAF	0220A	52	1316 304 078	154.202	RVI	00140	38	1322 204 012	145.720	IVE	00083	24
1312 304 159	156.176	DAF	0230A	56	1316 304 078	154.202	DAF	00180	38	1322 204 012	145.720	RVI	00123	24
1312 304 159	156.176	VOL	00240	39	1316 304 078	154.202	VOL	00250	38	1322 204 031	145.954	IVE	00083	11
1312 304 159	156.176	VOL	00250	34	1316 304 078	154.202	KAS	00280	38	1322 204 031	145.954	RVI	00123	11
1312 304 159	156.176	KAS	00270	39	1317 304 026	155.243	MB	00005	7	1322 204 034	145.955	IVE	00083	15
1312 304 159	156.176	KAS	00280	34	1317 304 026	155.243	MAN	00025	7	1322 204 034	145.955	RVI	00123	15
1313 304 008	157.189	MAN	00040	37	1317 304 026	155.243	IVE	00087	7	1322 204 035	145.956	IVE	00083	21
1313 304 008	157.189	RVI	00140	37	1317 304 026	155.243	DAF	00165	7	1322 204 035	145.956	RVI	00123	21
1313 304 008	157.189	DAF	00180	37	1317 304 031	155.244	MB	00005	17	1322 204 039	145.957	IVE	00083	28
1313 304 008	157.189	VOL	00250	37	1317 304 031	155.244	MAN	00025	17	1322 204 039	145.957	RVI	00123	28
1313 304 008	157.189	KAS	00280	37	1317 304 031	155.244	IVE	00087	17	1322 302 003	128.224	IVE	00083	1
1313 304 009	109.132	MAN	00040	35	1317 304 031	155.244	DAF	00165	17	1322 302 003	128.224	RVI	00123	1
1313 304 009	109.132	RVI	00140	35	1317 304 081	188.231	MB	00005	9	1322 303 005	145.958	IVE	00083	34
1313 304 009	109.132	DAF	00180	35	1317 304 081	188.231	MAN	00025	9	1322 303 005	145.958	RVI	00123	34
1313 304 009	109.132	VOL	00250	35	1317 304 081	188.231	IVE	00087	9	1322 303 007	105.220	IVE	00083	33
1313 304 009	109.132	KAS	00280	35	1317 304 081	188.231	DAF	00165	9	1322 303 007	105.220	RVI	00123	33
1313 333 001	157.182	MAN	0060B	14	1317 304 114	119.267	MB	00005	16	1322 304 002	189.658	IVE	00083	30
1313 333 001	157.182	MAN	0070B	21	1317 304 114	119.267	MAN	00025	16	1322 304 002	189.658	RVI	00123	30
1313 333 001	157.182	MAN	0080B	14	1317 304 114	119.267	IVE	00087	16	1322 304 004	157.221	IVE	00083	25
1313 333 001	157.182	IVE	0100B	14	1317 304 114	119.267	DAF	00165	16	1322 304 004	157.221	RVI	00123	25
1313 333 001	157.182	IVE	0110B	21	1317 304 125	154.416	MB	00005	18	1322 304 005	155.238	IVE	00083	6
1313 333 001	157.182	IVE	0120B	14	1317 304 125	154.416	MAN	00025	18	1322 304 005	155.238	RVI	00123	6
1313 333 001	157.182	RVI	0145B	14	1317 304 125	154.416	IVE	00087	18	1322 304 006	154.324	IVE	00083	26
1313 333 001	157.182	RVI	0150B	21	1317 304 125	154.416	DAF	00165	18	1322 304 006	154.324	RVI	00123	26
1313 333 001	157.182	RVI	0160B	14	1317 304 126	154.415	MB	00005	10	1322 304 022	119.257	IVE	00083	5
1313 333 001	157.182	DAF	0200B	14	1317 304 126	154.415	MAN	00025	10	1322 304 022	119.257	RVI	00123	5
1313 333 001	157.182	DAF	0220B	21	1317 304 126	154.415	IVE	00087	10	1322 304 023	188.231	IVE	00083	8
1313 333 001	157.182	DAF	0230B	14	1317 304 126	154.415	DAF	00165	10	1322 304 023	188.231	RVI	00123	8
1313 333 001	157.182	KAS	0300B	14	1317 304 149	See	1317 304 114			1322 304 025	197.152	IVE	00083	31
1315 334 041		MAN	0060B	31	1317 304 150	119.266	MB	00005	6	1322 304 025	197.152	RVI	00123	31
1315 334 041		MAN	0070B	40	1317 304 150	119.266	MAN	00025	6	1322 304 028	117.405	IVE	00083	13
1315 334 041		MAN	0080B	37	1317 304 150	119.266	IVE	00087	6	1322 304 028	117.405	RVI	00123	13
1315 334 041		IVE	0100B	31	1317 304 150	119.266	DAF	00165	6	1322 304 098	154.410	IVE	00083	10
1315 334 041		IVE	0110B	40	1319 304 032	119.263	IVE	00085	41	1322 304 098	154.410	RVI	00123	10
1315 334 041		IVE	0120B	37	1319 304 032	119.263	RVI	00125	41	1322 304 103	103.206	IVE	00083	22

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1322 304 107	119.259	IVE	00083	38	1323 303 023	155.242	RVI	00125	34					
1322 304 107	119.259	RVI	00123	38	1323 303 041	146.651	IVE	00085	32					
1322 304 108	119.258	IVE	00083	18	1323 303 041	146.651	RVI	00125	32					
1322 304 108	119.258	RVI	00123	18	1323 304 009	154.413	IVE	00085	26					
1322 304 109	<b>154.325</b>	IVE	00083	20	1323 304 009	154.413	RVI	00125	26					
1322 304 109	<b>154.325</b>	RVI	00123	20	1323 304 017	155.239	IVE	00085	7					
1322 304 110	157.222	IVE	00083	19	1323 304 017	155.239	RVI	00125	7					
1322 304 110	157.222	RVI	00123	19	1323 304 020	155.240	IVE	00085	18					
1322 304 111	119.260	IVE	00083	39	1323 304 020	155.240	RVI	00125	18					
1322 304 111	119.260	RVI	00123	39	1323 304 021	145.962	IVE	00085	25					
1322 304 114	117.406	IVE	00083	17	1323 304 021	145.962	RVI	00125	25					
1322 304 114	117.406	RVI	00123	17	1323 304 022	167.113	IVE	00085	24					
1322 304 117	167.112	IVE	00083	14	1323 304 022	167.113	RVI	00125	24					
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1322 304 137	156.192	IVE	00083	7	1323 304 025	197.153	RVI	00125	29					
1322 304 137	156.192	RVI	00123	7	1323 304 030	103.207	IVE	00085	13					
1322 305 003	147.249	IVE	00083	35	1323 304 030	103.207	RVI	00125	13					
1322 305 003	147.249	RVI	00123	35	1323 305 001	107.213	IVE	00085	38					
1322 305 004	107.212	IVE	00083	36	1323 305 001	107.213	RVI	00125	38					
1322 305 004	107.212	RVI	00123	36	1323 305 007	147.250	IVE	00085	39					
1323 202 003	102.416	IVE	00085	3	1323 305 007	147.250	RVI	00125	39					
1323 202 003	102.416	RVI	00125	3	6002 305 515	<b>154.361</b>	MAN	0050A	8					
1323 203 004	146.653	IVE	00085	35	6002 305 515	<b>154.361</b>	MAN	0070A	8					
1323 203 004	146.653	RVI	00125	35	6002 305 515	<b>154.361</b>	IVE	0110A	8					
1323 203 005	146.652	IVE	00085	33	6002 305 515	<b>154.361</b>	RVI	0150A	8					
1323 203 005	146.652	RVI	00125	33	6002 305 515	<b>154.361</b>	DAF	0190A	8					
1323 204 007	145.960	IVE	00085	15	6002 305 515	<b>154.361</b>	DAF	0200A	8					
1323 204 007	145.960	RVI	00125	15	6002 305 515	<b>154.361</b>	DAF	0220A	8					
1323 204 008	145.961	IVE	00085	22	6002 305 515	<b>154.361</b>	KAS	0290A	8					
1323 204 008	145.961	RVI	00125	22	6002 305 994	<b>154.373</b>	MB	00005	33					
1323 204 011	155.241	IVE	00085	27	6002 305 994	<b>154.373</b>	MAN	00025	33					
1323 204 011	155.241	RVI	00125	27	6002 305 994	<b>154.373</b>	IVE	00087	33					
1323 204 019	145.959	IVE	00085	11	6002 305 994	<b>154.373</b>	DAF	00165	33					
1323 204 019	145.959	RVI	00125	11	6002 305 994	<b>154.373</b>	DAF	0220A	49					
1323 302 003	128.225	IVE	00085	1	6002 305 994	<b>154.373</b>	DAF	0230A	53					
1323 302 003	128.225	RVI	00125	1	6002 306 154	119.222	DAF	0220A	46					
1323 303 008	105.221	IVE	00085	37	6002 306 154	119.222	DAF	0230A	50					
1323 303 008	105.221	RVI	00125	37										
1323 303 012	154.411	IVE	00085	6										
1323 303 012	154.411	RVI	00125	6										
1323 303 016	146.650	IVE	00085	31										
1323 303 016	146.650	RVI	00125	31										

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102.344	1304 202 193	MAN	0050A	3	102.355	1304 202 245	IVE	0110A	3	102.390	1310 302 026	RVI	00130	3
102.344	1304 202 193	DAF	0190A	3	102.355	1304 202 245	RVI	0150A	3	102.390	1310 302 026	DAF	00170	3
102.344	1304 202 193	KAS	0290A	3	102.355	1304 202 245	DAF	0220A	3	102.390	1310 302 026	VOL	00240	3
102.345	1304 202 190	MAN	0050A	3	102.356	1304 202 172	MAN	0070A	3	102.390	1310 302 026	KAS	00270	3
102.345	1304 202 190	DAF	0190A	3	102.356	1304 202 172	IVE	0110A	3	102.391	1310 302 022	MB	00010	3
102.345	1304 202 190	KAS	0290A	3	102.356	1304 202 172	RVI	0150A	3	102.391	1310 302 022	MAN	00030	3
102.346	1304 202 185	MAN	0050A	3	102.356	1304 202 172	DAF	0220A	3	102.391	1310 302 022	IVE	00090	3
102.346	1304 202 185	DAF	0190A	3	102.357	1304 202 168	MAN	0070A	3	102.391	1310 302 022	RVI	00130	3
102.346	1304 202 185	KAS	0290A	3	102.357	1304 202 168	IVE	0110A	3	102.391	1310 302 022	DAF	00170	3
102.347	1304 202 177	MAN	0070A	3	102.357	1304 202 168	RVI	0150A	3	102.391	1310 302 022	VOL	00240	3
102.347	1304 202 177	IVE	0110A	3	102.357	1304 202 168	DAF	0220A	3	102.391	1310 302 022	KAS	00270	3
102.347	1304 202 177	RVI	0150A	3	102.358	1304 202 173	MAN	0070A	3	102.392	1310 302 021	MB	00010	3
102.347	1304 202 177	DAF	0200A	3	102.358	1304 202 173	IVE	0110A	3	102.392	1310 302 021	MAN	00030	3
102.347	1304 202 177	DAF	0220A	3	102.358	1304 202 173	RVI	0150A	3	102.392	1310 302 021	IVE	00090	3
102.348	1304 202 206	MAN	0060A	3	102.358	1304 202 173	DAF	0220A	3	102.392	1310 302 021	RVI	00130	3
102.348	1304 202 206	IVE	0100A	3	102.361	1304 202 208	MAN	0060A	3	102.392	1310 302 021	DAF	00170	3
102.348	1304 202 206	RVI	0145A	3	102.361	1304 202 208	IVE	0100A	3	102.392	1310 302 021	VOL	00240	3
102.348	1304 202 206	KAS	0300A	3	102.361	1304 202 208	RVI	0145A	3	102.392	1310 302 021	KAS	00270	3
102.349	1304 202 212	MAN	0060A	3	102.361	1304 202 208	KAS	0300A	3	102.393	1310 302 033	MB	00010	3
102.349	1304 202 212	IVE	0100A	3	102.387	1310 302 001	MB	00010	3	102.393	1310 302 033	MAN	00030	3
102.349	1304 202 212	RVI	0145A	3	102.387	1310 302 001	MAN	00030	3	102.393	1310 302 033	IVE	00090	3
102.349	1304 202 212	KAS	0300A	3	102.387	1310 302 001	IVE	00090	3	102.393	1310 302 033	RVI	00130	3
102.350	1304 202 178	MAN	0070A	3	102.387	1310 302 001	DAF	00170	3	102.393	1310 302 033	DAF	00170	3
102.350	1304 202 178	IVE	0110A	3	102.387	1310 302 001	VOL	00240	3	102.393	1310 302 033	VOL	00240	3
102.350	1304 202 178	RVI	0150A	3	102.387	1310 302 001	KAS	00270	3	102.393	1310 302 033	KAS	00270	3
102.350	1304 202 178	DAF	0220A	3	102.388	1310 302 025	MB	00010	3	102.394	1310 302 094	MAN	00040	3
102.351	1304 202 180	MAN	0070A	3	102.388	1310 302 025	MAN	00030	3	102.394	1310 302 094	RVI	00140	3
102.351	1304 202 180	IVE	0110A	3	102.388	1310 302 025	IVE	00090	3	102.394	1310 302 094	DAF	00180	3
102.351	1304 202 180	RVI	0150A	3	102.388	1310 302 025	IVE	00090	3	102.394	1310 302 094	VOL	00250	3
102.351	1304 202 180	DAF	0220A	3	102.388	1310 302 025	RVI	00130	3	102.394	1310 302 094	KAS	00280	3
102.352	1304 202 171	MAN	0070A	3	102.388	1310 302 025	DAF	00170	3	102.395	1310 302 097	MAN	00040	3
102.352	1304 202 171	IVE	0110A	3	102.388	1310 302 025	VOL	00240	3	102.395	1310 302 097	RVI	00140	3
102.352	1304 202 171	RVI	0150A	3	102.388	1310 302 025	KAS	00270	3	102.395	1310 302 097	DAF	00180	3
102.352	1304 202 171	DAF	0220A	3	102.389	1310 302 032	MB	00010	3	102.395	1310 302 097	VOL	00250	3
102.353	1304 202 175	MAN	0070A	3	102.389	1310 302 032	MAN	00030	3	102.395	1310 302 097	KAS	00280	3
102.353	1304 202 175	IVE	0110A	3	102.389	1310 302 032	IVE	00090	3	102.396	1310 302 089	MAN	00040	3
102.353	1304 202 175	RVI	0150A	3	102.389	1310 302 032	RVI	00130	3	102.396	1310 302 089	RVI	00140	3
102.353	1304 202 175	DAF	0220A	3	102.389	1310 302 032	DAF	00170	3	102.396	1310 302 089	DAF	00180	3
102.354	1304 202 170	MAN	0070A	3	102.389	1310 302 032	VOL	00240	3	102.396	1310 302 089	VOL	00250	3
102.354	1304 202 170	IVE	0110A	3	102.389	1310 302 032	KAS	00270	3	102.396	1310 302 089	KAS	00280	3
102.354	1304 202 170	RVI	0150A	3	102.390	1310 302 026	MB	00010	3	102.397	1310 302 088	MAN	00040	3
102.354	1304 202 170	DAF	0220A	3	102.390	1310 302 026	MAN	00030	3	102.397	1310 302 088	RVI	00140	3
102.355	1304 202 245	MAN	0070A	3	102.390	1310 302 026	IVE	00090	3	102.397	1310 302 088	DAF	00180	3

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102.397	1310 302 088	VOL	00250	3	102.421	1290 302 490	IVE	00087	2	103.129	1304 304 630	MAN	0080A	23
102.397	1310 302 088	KAS	00280	3	102.421	1290 302 474	DAF	00165	2	103.129	1304 304 630	IVE	0120A	23
102.398	1310 302 090	MAN	00040	3	102.421	1290 302 490	DAF	00165	2	103.129	1304 304 630	RVI	0160A	23
102.398	1310 302 090	RVI	00140	3	102.422	1290 302 482	MB	00005	2	103.129	1304 304 630	DAF	0230A	23
102.398	1310 302 090	DAF	00180	3	102.422	1290 302 482	MAN	00025	2	103.137	1308 304 053	MB	0020A	24
102.398	1310 302 090	VOL	00250	3	102.422	1290 302 482	IVE	00087	2	103.137	1308 304 053	DAF	0210A	24
102.398	1310 302 090	KAS	00280	3	102.422	1290 302 482	DAF	00165	2	103.137	1308 304 053	VOL	0260A	24
102.399	1310 302 096	MAN	00040	3	102.423	1290 302 471	MB	00005	2	103.190	1304 304 449	MAN	0050A	25
102.399	1310 302 096	RVI	00140	3	102.423	1290 302 471	MAN	00025	2	103.190	1304 304 449	MAN	0070A	25
102.399	1310 302 096	DAF	00180	3	102.423	1290 302 471	IVE	00087	2	103.190	1304 304 449	IVE	0110A	25
102.399	1310 302 096	VOL	00250	3	102.423	1290 302 471	DAF	00165	2	103.190	1304 304 449	RVI	0150A	25
102.399	1310 302 096	KAS	00280	3	102.424	1290 302 472	MB	00005	2	103.190	1304 304 449	DAF	0190A	25
102.400	1310 302 092	MAN	00040	3	102.424	1290 302 472	MAN	00025	2	103.190	1304 304 449	DAF	0200A	25
102.400	1310 302 092	RVI	00140	3	102.424	1290 302 472	IVE	00087	2	103.190	1304 304 449	DAF	0220A	25
102.400	1310 302 092	DAF	00180	3	102.424	1290 302 472	DAF	00165	2	103.190	1304 304 449	KAS	0290A	25
102.400	1310 302 092	VOL	00250	3	102.425	1304 202 207	MAN	0060A	3	103.191	1304 304 604	MAN	0060A	14
102.400	1310 302 092	KAS	00280	3	102.425	1304 202 207	IVE	0100A	3	103.191	1304 304 604	IVE	0100A	14
102.401	1310 302 082	MAN	00040	3	102.425	1304 202 207	RVI	0145A	3	103.191	1304 304 604	RVI	0145A	14
102.401	1310 302 082	RVI	00140	3	102.425	1304 202 207	KAS	0300A	3	103.191	1304 304 604	KAS	0300A	14
102.401	1310 302 082	DAF	00180	3	102.426	1304 202 210	MAN	0060A	3	103.195	1311 304 248	MB	00010	27
102.401	1310 302 082	VOL	00250	3	102.426	1304 202 210	IVE	0100A	3	103.195	1311 304 248	MAN	00030	27
102.401	1310 302 082	KAS	00280	3	102.426	1304 202 210	RVI	0145A	3	103.195	1311 304 248	IVE	00090	27
102.415	1322 202 004	IVE	00083	3	102.426	1304 202 210	KAS	0300A	3	103.195	1311 304 248	RVI	00130	27
102.415	1322 202 004	RVI	00123	3	102.427	1304 202 211	MAN	0060A	3	103.195	1311 304 248	DAF	00170	27
102.416	1323 202 003	IVE	00085	3	102.427	1304 202 211	IVE	0100A	3	103.195	1311 304 248	VOL	00240	27
102.416	1323 202 003	RVI	00125	3	102.427	1304 202 211	RVI	0145A	3	103.195	1311 304 248	KAS	00270	27
102.418	1290 302 486	MB	00005	2	102.427	1304 202 211	KAS	0300A	3	103.196	1310 304 189	MAN	00040	25
102.418	1290 302 486	MAN	00025	2	102.428	1304 202 205	MAN	0060A	3	103.196	1310 304 189	RVI	00140	25
102.418	1290 302 486	IVE	00087	2	102.429	1304 202 186	MAN	0050A	3	103.196	1310 304 189	DAF	00180	25
102.418	1290 302 486	DAF	00165	2	102.429	1304 202 186	DAF	0190A	3	103.196	1310 304 189	VOL	00250	25
102.419	1290 302 478	MB	00005	2	102.429	1304 202 186	KAS	0290A	3	103.196	1310 304 189	KAS	00280	25
102.419	1290 302 478	MAN	00025	2	102.430	1304 202 188	MAN	0050A	3	103.206	1322 304 103	IVE	00083	22
102.419	1290 302 478	IVE	00087	2	102.430	1304 202 188	DAF	0190A	3	103.206	1322 304 103	RVI	00123	22
102.419	1290 302 478	DAF	00165	2	102.430	1304 202 188	KAS	0290A	3	103.207	1323 304 030	IVE	00085	13
102.420	1290 302 465	MB	00005	2	102.431	1304 202 182	MAN	0050A	3	103.207	1323 304 030	RVI	00125	13
102.420	1290 302 465	MAN	00025	2	102.431	1304 202 182	DAF	0190A	3	103.210	1290 304 571	MB	00005	22
102.420	1290 302 465	IVE	00087	2	102.431	1304 202 182	KAS	0290A	3	103.210	1290 304 571	MAN	00025	22
102.420	1290 302 465	DAF	00165	2	102.432	1304 202 247	MAN	0050A	3	103.210	1290 304 571	IVE	00087	22
102.421	1290 302 474	MB	00005	2	102.432	1304 202 247	DAF	0190A	3	103.210	1290 304 571	DAF	00165	22
102.421	1290 302 490	MB	00005	2	102.432	1304 202 247	KAS	0290A	3	103.213	1290 305 028	MB	00005	48
102.421	1290 302 474	MAN	00025	2	102.433	1304 202 184	MAN	0050A	3	103.213	1290 305 028	MAN	00025	48
102.421	1290 302 490	MAN	00025	2	102.433	1304 202 184	DAF	0190A	3	103.213	1290 305 028	IVE	00087	48
102.421	1290 302 474	IVE	00087	2	102.433	1304 202 184	KAS	0290A	3	103.213	1290 305 028	DAF	00165	48

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103.216	1290 304 620	MB	00005	22	105.191	1310 303 076	MB	00010	52	107.156	1304 305 030	VOL	0260A	40
103.216	1290 304 620	MAN	00025	22	105.191	1310 303 076	MAN	00030	52	107.156	1304 305 030	KAS	0290A	43
103.216	1290 304 620	IVE	00087	22	105.191	1310 303 076	IVE	00090	52	107.156	1304 305 030	KAS	0300A	39
103.216	1290 304 620	DAF	00165	22	105.191	1310 303 076	RVI	00130	52	107.157	1304 332 111	MAN	0060B	2
105.099	1304 303 277	MAN	0080A	43	105.191	1310 303 076	DAF	00170	52	107.157	1304 332 111	MAN	0070B	2
105.099	1304 303 277	IVE	0120A	43	105.191	1310 303 076	VOL	00240	52	107.157	1304 332 111	MAN	0070B	9
105.099	1304 303 277	RVI	0160A	43	105.191	1310 303 076	KAS	00270	52	107.157	1304 332 111	MAN	0080B	2
105.099	1304 303 277	DAF	0230A	43	105.192	1310 303 053	MAN	00040	52	107.157	1304 332 111	IVE	0100B	2
105.111	1304 303 279	MAN	0080A	43	105.192	1310 303 053	RVI	00140	52	107.157	1304 332 111	IVE	0110B	2
105.111	1304 303 279	IVE	0120A	43	105.192	1310 303 053	DAF	00180	52	107.157	1304 332 111	IVE	0110B	9
105.111	1304 303 279	RVI	0160A	43	105.192	1310 303 053	VOL	00250	52	107.157	1304 332 111	IVE	0120B	2
105.111	1304 303 279	DAF	0230A	43	105.192	1310 303 053	KAS	00280	52	107.157	1304 332 111	RVI	0145B	2
105.115	1304 303 276	MAN	0080A	43	105.220	1322 303 007	IVE	00083	33	107.157	1304 332 111	RVI	0150B	2
105.115	1304 303 276	IVE	0120A	43	105.220	1322 303 007	RVI	00123	33	107.157	1304 332 111	RVI	0150B	9
105.115	1304 303 276	RVI	0160A	43	105.221	1323 303 008	IVE	00085	37	107.157	1304 332 111	RVI	0160B	2
105.115	1304 303 276	DAF	0230A	43	105.221	1323 303 008	RVI	00125	37	107.157	1304 332 111	DAF	0200B	2
105.183	1304 303 119	MAN	0050A	41	105.222	1290 203 039	MB	00005	45	107.157	1304 332 111	DAF	0220B	2
105.183	1304 303 119	DAF	0190A	41	105.222	1290 203 039	MAN	00025	45	107.157	1304 332 111	DAF	0220B	9
105.183	1304 303 119	KAS	0290A	41	105.222	1290 203 039	IVE	00087	45	107.157	1304 332 111	DAF	0230B	2
105.184	1304 303 267	MAN	0070A	39	105.222	1290 203 039	DAF	00165	45	107.157	1304 332 111	KAS	0300B	2
105.184	1304 303 267	IVE	0110A	39	105.223	1290 203 042	MB	00005	45	107.201	1310 305 001	MB	00010	56
105.184	1304 303 267	RVI	0150A	39	105.223	1290 203 042	MAN	00025	45	107.201	1310 305 001	MAN	00030	56
105.184	1304 303 267	DAF	0200A	38	105.223	1290 203 042	IVE	00087	45	107.201	1310 305 001	MAN	00040	56
105.184	1304 303 267	DAF	0220A	39	105.223	1290 203 042	DAF	00165	45	107.201	1310 305 001	IVE	00090	56
105.185	1304 303 322	MAN	0060A	38	107.138	1308 332 004	MB	0020B	2	107.201	1310 305 001	RVI	00130	56
105.185	1304 303 322	IVE	0100A	38	107.138	1308 332 004	DAF	0210B	2	107.201	1310 305 001	RVI	00140	56
105.185	1304 303 322	RVI	0145A	38	107.138	1308 332 004	VOL	0260B	2	107.201	1310 305 001	DAF	00170	56
105.185	1304 303 322	KAS	0300A	38	107.156	1304 305 030	MB	0020A	40	107.201	1310 305 001	DAF	00180	56
105.186	1304 303 291	MAN	0060A	35	107.156	1304 305 030	MAN	0050A	43	107.201	1310 305 001	VOL	00240	56
105.186	1304 303 291	IVE	0100A	35	107.156	1304 305 030	MAN	0060A	39	107.201	1310 305 001	VOL	00250	56
105.186	1304 303 291	RVI	0145A	35	107.156	1304 305 030	MAN	0070A	41	107.201	1310 305 001	KAS	00270	56
105.186	1304 303 291	KAS	0300A	35	107.156	1304 305 030	MAN	0080A	45	107.201	1310 305 001	KAS	00280	56
105.187	1304 303 269	MAN	0070A	39	107.156	1304 305 030	IVE	0100A	39	107.203	1304 332 070	MAN	0050B	2
105.187	1304 303 269	IVE	0110A	39	107.156	1304 305 030	IVE	0110A	41	107.203	1304 332 070	DAF	0190B	2
105.187	1304 303 269	RVI	0150A	39	107.156	1304 305 030	IVE	0120A	45	107.203	1304 332 070	KAS	0290B	2
105.187	1304 303 269	DAF	0220A	39	107.156	1304 305 030	RVI	0145A	39	107.212	1322 305 004	IVE	00083	36
105.188	1304 303 268	MAN	0070A	39	107.156	1304 305 030	RVI	0150A	41	107.212	1322 305 004	RVI	00123	36
105.188	1304 303 268	IVE	0110A	39	107.156	1304 305 030	RVI	0160A	45	107.213	1323 305 001	IVE	00085	38
105.188	1304 303 268	RVI	0150A	39	107.156	1304 305 030	DAF	0190A	43	107.213	1323 305 001	RVI	00125	38
105.188	1304 303 268	DAF	0220A	39	107.156	1304 305 030	DAF	0200A	40	109.132	1313 304 009	MAN	00040	35
105.189	1308 303 022	MB	0020A	38	107.156	1304 305 030	DAF	0210A	40	109.132	1313 304 009	RVI	00140	35
105.189	1308 303 022	DAF	0210A	38	107.156	1304 305 030	DAF	0220A	41	109.132	1313 304 009	DAF	00180	35
105.189	1308 303 022	VOL	0260A	38	107.156	1304 305 030	DAF	0230A	45	109.132	1313 304 009	VOL	00250	35

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109.132	1313 304 009	KAS	00280	35	109.172	1304 304 007	MAN	0080A	33	109.183	1304 332 075	DAF	0220B	25
109.134	1312 304 027	MB	00010	19	109.172	1304 304 007	IVE	0100A	25	109.183	1304 332 075	DAF	0230B	18
109.134	1312 304 027	MAN	00030	19	109.172	1304 304 007	IVE	0120A	33	109.183	1304 332 075	KAS	0290B	18
109.134	1312 304 027	MAN	00040	19	109.172	1304 304 007	RVI	0145A	25	109.183	1304 332 075	KAS	0300B	18
109.134	1312 304 027	IVE	00090	19	109.172	1304 304 007	RVI	0160A	33	109.390	1304 304 445	MAN	0050A	28
109.134	1312 304 027	RVI	00130	19	109.172	1304 304 007	DAF	0230A	33	109.390	1304 304 445	DAF	0190A	28
109.134	1312 304 027	RVI	00140	19	109.172	1304 304 007	KAS	0300A	25	109.390	1304 304 445	KAS	0290A	28
109.134	1312 304 027	DAF	00170	19	109.173	1304 232 085	MAN	0060B	19	109.391	1304 304 660	MAN	0050A	5
109.134	1312 304 027	DAF	00180	19	109.173	1304 232 085	MAN	0070B	26	109.391	1304 304 660	MAN	0070A	5
109.134	1312 304 027	VOL	00240	19	109.173	1304 232 085	MAN	0080B	19	109.391	1304 304 660	IVE	0110A	5
109.134	1312 304 027	VOL	00250	19	109.173	1304 232 085	IVE	0100B	19	109.391	1304 304 660	RVI	0150A	5
109.134	1312 304 027	KAS	00270	19	109.173	1304 232 085	IVE	0110B	26	109.391	1304 304 660	DAF	0190A	5
109.134	1312 304 027	KAS	00280	19	109.173	1304 232 085	IVE	0120B	19	109.391	1304 304 660	DAF	0200A	5
109.135	1308 304 078	MB	0020A	5	109.173	1304 232 085	RVI	0145B	19	109.391	1304 304 660	DAF	0220A	5
109.135	1308 304 078	DAF	0210A	5	109.173	1304 232 085	RVI	0150B	26	109.391	1304 304 660	KAS	0290A	5
109.135	1308 304 078	VOL	0260A	5	109.173	1304 232 085	RVI	0160B	19	109.392	1311 304 015	MAN	0060A	17
109.136	1308 304 051	MB	0020A	27	109.173	1304 232 085	DAF	0200B	19	109.392	1311 304 015	IVE	0100A	17
109.136	1308 304 051	DAF	0210A	27	109.173	1304 232 085	DAF	0220B	26	109.392	1311 304 015	RVI	0145A	17
109.136	1308 304 051	VOL	0260A	27	109.173	1304 232 085	DAF	0230B	19	109.392	1311 304 015	KAS	0300A	17
109.137	1308 304 077	MB	0020A	17	109.173	1304 232 085	KAS	0300B	19	109.393	1304 233 013	MAN	0060B	18
109.137	1308 304 077	DAF	0210A	17	109.176	1312 304 106	MB	00010	31	109.393	1304 233 013	MAN	0070B	25
109.137	1308 304 077	VOL	0260A	17	109.176	1312 304 106	MAN	00030	31	109.393	1304 233 013	MAN	0080B	18
109.169	1304 302 188	MAN	0080A	5	109.176	1312 304 106	MAN	00040	28	109.393	1304 233 013	IVE	0100B	18
109.169	1304 302 188	IVE	0120A	5	109.176	1312 304 106	IVE	00090	31	109.393	1304 233 013	IVE	0110B	25
109.169	1304 302 188	RVI	0160A	5	109.176	1312 304 106	RVI	00130	31	109.393	1304 233 013	IVE	0120B	18
109.169	1304 302 188	DAF	0230A	5	109.176	1312 304 106	RVI	00140	28	109.393	1304 233 013	RVI	0145B	18
109.170	1304 304 012	MAN	0080A	15	109.176	1312 304 106	DAF	00170	31	109.393	1304 233 013	RVI	0150B	25
109.170	1304 304 012	IVE	0120A	15	109.176	1312 304 106	DAF	00180	28	109.393	1304 233 013	RVI	0160B	18
109.170	1304 304 012	RVI	0160A	15	109.176	1312 304 106	VOL	00240	31	109.393	1304 233 013	DAF	0220B	25
109.170	1304 304 012	DAF	0230A	15	109.176	1312 304 106	VOL	00250	28	109.393	1304 233 013	DAF	0230B	18
109.171	1304 304 408	MAN	0050A	17	109.176	1312 304 106	KAS	00270	31	109.393	1304 233 013	KAS	0300B	18
109.171	1304 304 408	MAN	0070A	17	109.176	1312 304 106	KAS	00280	28	109.394	1308 232 010	MB	0020B	19
109.171	1304 304 408	MAN	0080A	26	109.183	1304 332 075	MAN	0050B	18	109.394	1308 232 010	DAF	0210B	19
109.171	1304 304 408	IVE	0110A	17	109.183	1304 332 075	MAN	0060B	18	109.394	1308 232 010	VOL	0260B	19
109.171	1304 304 408	IVE	0120A	26	109.183	1304 332 075	MAN	0070B	25	109.395	1304 302 425	MAN	0060A	9
109.171	1304 304 408	RVI	0150A	17	109.183	1304 332 075	MAN	0080B	18	109.395	1304 302 425	IVE	0100A	9
109.171	1304 304 408	RVI	0160A	26	109.183	1304 332 075	IVE	0100B	18	109.395	1304 302 425	RVI	0145A	9
109.171	1304 304 408	DAF	0190A	17	109.183	1304 332 075	IVE	0110B	25	109.395	1304 302 425	KAS	0300A	9
109.171	1304 304 408	DAF	0200A	17	109.183	1304 332 075	IVE	0120B	18	109.396	1304 202 214	MAN	0060A	5
109.171	1304 304 408	DAF	0220A	17	109.183	1304 332 075	RVI	0145B	18	109.396	1304 202 214	IVE	0100A	5
109.171	1304 304 408	DAF	0230A	26	109.183	1304 332 075	RVI	0150B	25	109.396	1304 202 214	RVI	0145A	5
109.171	1304 304 408	KAS	0290A	17	109.183	1304 332 075	RVI	0160B	18	109.396	1304 202 214	KAS	0300A	5
109.172	1304 304 007	MAN	0060A	25	109.183	1304 332 075	DAF	0190B	18	109.397	1304 313 133	MAN	0050B	19

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109.397	1304 313 133	MAN	0060B	19	109.407	1304 304 623	IVE	00087	25	117.377	1304 304 050	KAS	0290A	14
109.397	1304 313 133	MAN	0080B	19	109.407	1304 304 623	DAF	00165	25	117.378	1304 304 568	DAF	0200A	26
109.397	1304 313 133	IVE	0100B	19	109.407	1304 304 623	DAF	0220A	44	117.379	0730 162 428	MB	0020A	15
109.397	1304 313 133	IVE	0120B	19	109.407	1304 304 623	DAF	0230A	48	117.379	0730 162 428	DAF	0210A	15
109.397	1304 313 133	RVI	0145B	19	109.738	1290 304 482	MB	00005	3	117.379	0730 162 428	VOL	0260A	15
109.397	1304 313 133	RVI	0160B	19	109.738	1290 304 482	MAN	00025	3	117.384	1311 304 124	MB	00010	16
109.397	1304 313 133	DAF	0190B	19	109.738	1290 304 482	IVE	00087	3	117.384	1311 304 124	MAN	00030	16
109.397	1304 313 133	DAF	0230B	19	109.738	1290 304 482	DAF	00165	3	117.384	1311 304 124	IVE	00090	16
109.397	1304 313 133	KAS	0290B	19	109.739	1290 304 508	MB	00005	15	117.384	1311 304 124	RVI	00130	16
109.397	1304 313 133	KAS	0300B	19	109.739	1290 304 508	MAN	00025	15	117.384	1311 304 124	DAF	00170	16
109.400	1310 302 023	MB	00010	5	109.739	1290 304 508	IVE	00087	15	117.384	1311 304 124	VOL	00240	16
109.400	1310 302 023	MAN	00030	5	109.739	1290 304 508	DAF	00165	15	117.384	1311 304 124	KAS	00270	16
109.400	1310 302 023	IVE	00090	5	109.740	1290 304 509	MB	00005	19	117.405	1322 304 028	IVE	00083	13
109.400	1310 302 023	RVI	00130	5	109.740	1290 304 509	MAN	00025	19	117.405	1322 304 028	RVI	00123	13
109.400	1310 302 023	DAF	00170	5	109.740	1290 304 509	IVE	00087	19	117.406	1322 304 114	IVE	00083	17
109.400	1310 302 023	VOL	00240	5	109.740	1290 304 509	DAF	00165	19	117.406	1322 304 114	RVI	00123	17
109.400	1310 302 023	KAS	00270	5	111.175	0730 505 053	MAN	0050B	11	117.407	0730 162 810	IVE	00085	23
109.401	1310 302 024	MB	00010	5	111.175	0730 505 053	MAN	0060B	11	117.407	0730 162 810	RVI	00125	23
109.401	1310 302 024	MAN	00030	5	111.175	0730 505 053	IVE	0100B	11	117.409	0735 295 119	MB	00005	5
109.401	1310 302 024	IVE	00090	5	111.175	0730 505 053	RVI	0145B	11	117.409	0735 295 119	MAN	00025	5
109.401	1310 302 024	RVI	00130	5	111.175	0730 505 053	DAF	0190B	11	117.409	0735 295 119	IVE	00087	5
109.401	1310 302 024	DAF	00170	5	111.175	0730 505 053	KAS	0290B	11	117.409	0735 295 119	DAF	00165	5
109.401	1310 302 024	VOL	00240	5	111.175	0730 505 053	KAS	0300B	11	117.410	1290 304 056	MB	00005	38
109.401	1310 302 024	KAS	00270	5	111.264	0730 505 140	MAN	0070B	18	117.410	1290 304 056	MAN	00025	38
109.402	1311 304 009	MB	00010	10	111.264	0730 505 140	MAN	0080B	11	117.410	1290 304 056	IVE	00087	38
109.402	1311 304 009	MAN	00030	10	111.264	0730 505 140	IVE	0110B	18	117.410	1290 304 056	DAF	00165	38
109.402	1311 304 009	IVE	00090	10	111.264	0730 505 140	IVE	0120B	11	119.072	1238 304 420	MAN	0050A	29
109.402	1311 304 009	RVI	00130	10	111.264	0730 505 140	RVI	0150B	18	119.072	1238 304 420	DAF	0190A	29
109.402	1311 304 009	DAF	00170	10	111.264	0730 505 140	RVI	0160B	11	119.072	1238 304 420	KAS	0290A	29
109.402	1311 304 009	VOL	00240	10	111.264	0730 505 140	DAF	0200B	11	119.085	1296 333 022	MAN	0060B	13
109.402	1311 304 009	KAS	00270	10	111.264	0730 505 140	DAF	0220B	18	119.085	1296 333 022	MAN	0070B	20
109.403	1310 302 045	MAN	00040	5	111.264	0730 505 140	DAF	0230B	11	119.085	1296 333 022	MAN	0080B	13
109.403	1310 302 045	RVI	00140	5	111.265	0730 505 092	MAN	0080B	11	119.085	1296 333 022	IVE	0100B	13
109.403	1310 302 045	DAF	00180	5	111.265	0730 505 092	IVE	0120B	11	119.085	1296 333 022	IVE	0110B	20
109.403	1310 302 045	VOL	00250	5	111.265	0730 505 092	RVI	0160B	11	119.085	1296 333 022	IVE	0120B	13
109.403	1310 302 045	KAS	00280	5	111.265	0730 505 092	DAF	0230B	11	119.085	1296 333 022	RVI	0145B	13
109.404	1310 304 161	MAN	00040	10	117.377	1304 304 050	MAN	0050A	14	119.085	1296 333 022	RVI	0150B	20
109.404	1310 304 161	RVI	00140	10	117.377	1304 304 050	MAN	0070A	14	119.085	1296 333 022	RVI	0160B	13
109.404	1310 304 161	DAF	00180	10	117.377	1304 304 050	IVE	0110A	14	119.085	1296 333 022	DAF	0200B	13
109.404	1310 304 161	VOL	00250	10	117.377	1304 304 050	RVI	0150A	14	119.085	1296 333 022	DAF	0220B	20
109.404	1310 304 161	KAS	00280	10	117.377	1304 304 050	DAF	0190A	14	119.085	1296 333 022	DAF	0230B	13
109.407	1304 304 623	MB	00005	25	117.377	1304 304 050	DAF	0200A	14	119.085	1296 333 022	KAS	0300B	13
109.407	1304 304 623	MAN	00025	25	117.377	1304 304 050	DAF	0220A	14	119.116	1308 304 070	MB	0020A	18

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119.116	1308 304 070	DAF	0210A	18	119.142	1268 304 594	IVE	0100A	18	119.151	1304 304 542	RVI	0160A	27
119.116	1308 304 070	VOL	0260A	18	119.142	1268 304 594	RVI	00140	7	119.151	1304 304 542	DAF	0190A	18
119.117	1308 304 097	MB	0020A	6	119.142	1268 304 594	RVI	0145A	18	119.151	1304 304 542	DAF	0200A	18
119.117	1308 304 097	DAF	0210A	6	119.142	1268 304 594	DAF	00180	7	119.151	1304 304 542	DAF	0220A	18
119.117	1308 304 097	VOL	0260A	6	119.142	1268 304 594	DAF	0210B	14	119.151	1304 304 542	DAF	0230A	27
119.118	1268 304 445	MB	0020B	14	119.142	1268 304 594	VOL	00250	7	119.151	1304 304 542	KAS	0290A	18
119.118	1268 304 445	MAN	00040	7	119.142	1268 304 594	VOL	0260B	14	119.152	1268 304 424	MB	00010	32
119.118	1268 304 445	MAN	0060A	18	119.142	1268 304 594	KAS	00280	7	119.152	1268 304 424	MAN	00030	32
119.118	1268 304 445	IVE	0100A	18	119.142	1268 304 594	KAS	0300A	18	119.152	1268 304 424	MAN	00040	29
119.118	1268 304 445	RVI	00140	7	119.144	1268 304 525	MB	00010	34	119.152	1268 304 424	IVE	00090	32
119.118	1268 304 445	RVI	0145A	18	119.144	1268 304 525	MAN	00030	34	119.152	1268 304 424	RVI	00130	32
119.118	1268 304 445	DAF	00180	7	119.144	1268 304 525	MAN	00040	31	119.152	1268 304 424	RVI	00140	29
119.118	1268 304 445	DAF	0210B	14	119.144	1268 304 525	IVE	00090	34	119.152	1268 304 424	DAF	00170	32
119.118	1268 304 445	VOL	00250	7	119.144	1268 304 525	RVI	00130	34	119.152	1268 304 424	DAF	00180	29
119.118	1268 304 445	VOL	0260B	14	119.144	1268 304 525	RVI	00140	31	119.152	1268 304 424	VOL	00240	32
119.118	1268 304 445	KAS	00280	7	119.144	1268 304 525	DAF	00170	34	119.152	1268 304 424	VOL	00250	29
119.118	1268 304 445	KAS	0300A	18	119.144	1268 304 525	DAF	00180	31	119.152	1268 304 424	KAS	00270	32
119.119	1297 304 402	MB	00010	20	119.144	1268 304 525	VOL	00240	34	119.152	1268 304 424	KAS	00280	29
119.119	1297 304 402	MAN	00030	20	119.144	1268 304 525	VOL	00250	31	119.153	1268 304 494	MB	00010	33
119.119	1297 304 402	MAN	00040	20	119.144	1268 304 525	KAS	00270	34	119.153	1268 304 494	MAN	00030	33
119.119	1297 304 402	IVE	00090	20	119.144	1268 304 525	KAS	00280	31	119.153	1268 304 494	MAN	00040	30
119.119	1297 304 402	RVI	00130	20	119.149	1304 304 496	MAN	0080A	6	119.153	1268 304 494	IVE	00090	33
119.119	1297 304 402	RVI	00140	20	119.149	1304 304 496	IVE	0120A	6	119.153	1268 304 494	RVI	00130	33
119.119	1297 304 402	DAF	00170	20	119.149	1304 304 496	RVI	0160A	6	119.153	1268 304 494	RVI	00140	30
119.119	1297 304 402	DAF	00180	20	119.149	1304 304 496	DAF	0230A	6	119.153	1268 304 494	DAF	00170	33
119.119	1297 304 402	VOL	00240	20	119.150	1304 304 014	MAN	0050A	6	119.153	1268 304 494	DAF	00180	30
119.119	1297 304 402	VOL	00250	20	119.150	1304 304 014	MAN	0070A	6	119.153	1268 304 494	VOL	00240	33
119.119	1297 304 402	KAS	00270	20	119.150	1304 304 014	MAN	0080A	16	119.153	1268 304 494	VOL	00250	30
119.119	1297 304 402	KAS	00280	20	119.150	1304 304 014	IVE	0110A	6	119.153	1268 304 494	KAS	00270	33
119.122	1297 304 401	MAN	00040	36	119.150	1304 304 014	IVE	0120A	16	119.153	1268 304 494	KAS	00280	30
119.122	1297 304 401	RVI	00140	36	119.150	1304 304 014	RVI	0150A	6	119.157	1304 333 005	MAN	0050B	13
119.122	1297 304 401	DAF	00180	36	119.150	1304 304 014	RVI	0160A	16	119.157	1304 333 005	MAN	0060B	13
119.122	1297 304 401	VOL	00250	36	119.150	1304 304 014	DAF	0190A	6	119.157	1304 333 005	MAN	0070B	20
119.122	1297 304 401	KAS	00280	36	119.150	1304 304 014	DAF	0200A	6	119.157	1304 333 005	MAN	0080B	13
119.138	1290 304 473	MAN	0050A	29	119.150	1304 304 014	DAF	0220A	6	119.157	1304 333 005	IVE	0100B	13
119.138	1290 304 473	DAF	0190A	29	119.150	1304 304 014	DAF	0230A	16	119.157	1304 333 005	IVE	0110B	20
119.138	1290 304 473	KAS	0290A	29	119.150	1304 304 014	KAS	0290A	6	119.157	1304 333 005	IVE	0120B	13
119.141	1308 304 096	MB	0020A	18	119.151	1304 304 542	MAN	0050A	18	119.157	1304 333 005	RVI	0145B	13
119.141	1308 304 096	DAF	0210A	18	119.151	1304 304 542	MAN	0070A	18	119.157	1304 333 005	RVI	0150B	20
119.141	1308 304 096	VOL	0260A	18	119.151	1304 304 542	MAN	0080A	27	119.157	1304 333 005	RVI	0160B	13
119.142	1268 304 594	MB	0020B	14	119.151	1304 304 542	IVE	0110A	18	119.157	1304 333 005	DAF	0190B	13
119.142	1268 304 594	MAN	00040	7	119.151	1304 304 542	IVE	0120A	27	119.157	1304 333 005	DAF	0220B	20
119.142	1268 304 594	MAN	0060A	18	119.151	1304 304 542	RVI	0150A	18	119.157	1304 333 005	DAF	0230B	13

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119.157	1304 333 005	KAS	0290B	13	119.171	1304 333 021	MAN	0050B	13	119.219	1311 304 076	VOL	00240	7
119.157	1304 333 005	KAS	0300B	13	119.171	1304 333 021	MAN	0060B	13	119.219	1311 304 076	KAS	00270	7
119.166	1297 304 485	MAN	00040	36	119.171	1304 333 021	MAN	0070B	20	119.219	1311 304 076	KAS	0300A	6
119.166	1297 304 485	RVI	00140	36	119.171	1304 333 021	MAN	0080B	13	119.220	1311 304 255	MB	00010	7
119.166	1297 304 485	DAF	00180	36	119.171	1304 333 021	IVE	0100B	13	119.220	1311 304 255	MAN	00030	7
119.166	1297 304 485	VOL	00250	36	119.171	1304 333 021	IVE	0110B	20	119.220	1311 304 255	MAN	0060A	6
119.166	1297 304 485	KAS	00280	36	119.171	1304 333 021	IVE	0120B	13	119.220	1311 304 255	IVE	00090	7
119.167	1297 304 484	MB	00010	20	119.171	1304 333 021	RVI	0145B	13	119.220	1311 304 255	IVE	0100A	6
119.167	1297 304 484	MAN	00030	20	119.171	1304 333 021	RVI	0150B	20	119.220	1311 304 255	RVI	00130	7
119.167	1297 304 484	MAN	00040	20	119.171	1304 333 021	RVI	0160B	13	119.220	1311 304 255	RVI	0145A	6
119.167	1297 304 484	IVE	00090	20	119.171	1304 333 021	DAF	0190B	13	119.220	1311 304 255	DAF	00170	7
119.167	1297 304 484	RVI	00130	20	119.171	1304 333 021	DAF	0220B	20	119.220	1311 304 255	VOL	00240	7
119.167	1297 304 484	RVI	00140	20	119.171	1304 333 021	DAF	0230B	13	119.220	1311 304 255	KAS	00270	7
119.167	1297 304 484	DAF	00170	20	119.171	1304 333 021	KAS	0290B	13	119.220	1311 304 255	KAS	0300A	6
119.167	1297 304 484	DAF	00180	20	119.171	1304 333 021	KAS	0300B	13	119.221	1290 304 350	MB	00005	26
119.167	1297 304 484	VOL	00240	20	119.172	1296 333 045	MAN	0060B	13	119.221	1290 304 350	MAN	00025	26
119.167	1297 304 484	VOL	00250	20	119.172	1296 333 045	MAN	0070B	20	119.221	1290 304 350	IVE	00087	26
119.167	1297 304 484	KAS	00270	20	119.172	1296 333 045	MAN	0080B	13	119.221	1290 304 350	DAF	00165	26
119.167	1297 304 484	KAS	00280	20	119.172	1296 333 045	IVE	0100B	13	119.221	1290 304 350	DAF	0220A	45
119.169	1304 304 683	MAN	0050A	6	119.172	1296 333 045	IVE	0110B	20	119.221	1290 304 350	DAF	0230A	49
119.169	1304 304 683	MAN	0070A	6	119.172	1296 333 045	IVE	0120B	13	119.222	6002 306 154	DAF	0220A	46
119.169	1304 304 683	MAN	0080A	16	119.172	1296 333 045	RVI	0145B	13	119.222	6002 306 154	DAF	0230A	50
119.169	1304 304 683	IVE	0110A	6	119.172	1296 333 045	RVI	0150B	20	119.223	1290 304 438	MB	00005	28
119.169	1304 304 683	IVE	0120A	16	119.172	1296 333 045	RVI	0160B	13	119.223	1290 304 438	MAN	00025	28
119.169	1304 304 683	RVI	0150A	6	119.172	1296 333 045	DAF	0200B	13	119.223	1290 304 438	IVE	00087	28
119.169	1304 304 683	RVI	0160A	16	119.172	1296 333 045	DAF	0220B	20	119.223	1290 304 438	DAF	00165	28
119.169	1304 304 683	DAF	0190A	6	119.172	1296 333 045	DAF	0230B	13	119.223	1290 304 438	DAF	0220A	47
119.169	1304 304 683	DAF	0200A	6	119.172	1296 333 045	KAS	0300B	13	119.223	1290 304 438	DAF	0230A	51
119.169	1304 304 683	DAF	0220A	6	119.173	1304 304 680	MAN	0080A	6	119.257	1322 304 022	IVE	00083	5
119.169	1304 304 683	DAF	0230A	16	119.173	1304 304 680	IVE	0120A	6	119.257	1322 304 022	RVI	00123	5
119.169	1304 304 683	KAS	0290A	6	119.173	1304 304 680	RVI	0160A	6	119.258	1322 304 108	IVE	00083	18
119.170	1304 304 681	MAN	0050A	18	119.173	1304 304 680	DAF	0230A	6	119.258	1322 304 108	RVI	00123	18
119.170	1304 304 681	MAN	0070A	18	119.174	1308 304 072	MB	0020A	6	119.259	1322 304 107	IVE	00083	38
119.170	1304 304 681	MAN	0080A	27	119.174	1308 304 072	DAF	0210A	6	119.259	1322 304 107	RVI	00123	38
119.170	1304 304 681	IVE	0110A	18	119.174	1308 304 072	VOL	0260A	6	119.260	1322 304 111	IVE	00083	39
119.170	1304 304 681	IVE	0120A	27	119.219	1311 304 076	MB	00010	7	119.260	1322 304 111	RVI	00123	39
119.170	1304 304 681	RVI	0150A	18	119.219	1311 304 076	MAN	00030	7	119.261	1065 303 001	IVE	00085	5
119.170	1304 304 681	RVI	0160A	27	119.219	1311 304 076	MAN	0060A	6	119.261	1065 303 001	RVI	00125	5
119.170	1304 304 681	DAF	0190A	18	119.219	1311 304 076	IVE	00090	7	119.262	1319 304 053	IVE	00085	16
119.170	1304 304 681	DAF	0200A	18	119.219	1311 304 076	IVE	0100A	6	119.262	1319 304 053	RVI	00125	16
119.170	1304 304 681	DAF	0220A	18	119.219	1311 304 076	RVI	00130	7	119.263	1319 304 032	IVE	00085	41
119.170	1304 304 681	DAF	0230A	27	119.219	1311 304 076	RVI	0145A	6	119.263	1319 304 032	RVI	00125	41
119.170	1304 304 681	KAS	0290A	18	119.219	1311 304 076	DAF	00170	7	119.264	1319 304 051	IVE	00085	42

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119.264	1319 304 051	RVI	00125	42	128.225	1323 302 003	RVI	00125	1	130.234	0750 117 083	KAS	0300A	36
119.266	1317 304 150	MB	00005	6	130.233	1246 203 008	MB	00010	53	130.265	0735 340 080	MAN	0050B	9
119.266	1317 304 150	MAN	00025	6	130.233	1246 203 008	MB	0020A	32	130.265	0735 340 080	MAN	0060B	9
119.266	1317 304 150	IVE	00087	6	130.233	1246 203 008	MAN	00030	53	130.265	0735 340 080	MAN	0070B	16
119.266	1317 304 150	DAF	00165	6	130.233	1246 203 008	MAN	00040	53	130.265	0735 340 080	MAN	0080B	9
119.267	1317 304 114	MB	00005	16	130.233	1246 203 008	IVE	00090	53	130.265	0735 340 080	IVE	0100B	9
119.267	1317 304 114	MAN	00025	16	130.233	1246 203 008	RVI	00130	53	130.265	0735 340 080	IVE	0110B	16
119.267	1317 304 114	IVE	00087	16	130.233	1246 203 008	RVI	00140	53	130.265	0735 340 080	IVE	0120B	9
119.267	1317 304 114	DAF	00165	16	130.233	1246 203 008	DAF	00170	53	130.265	0735 340 080	RVI	0145B	9
119.268	1290 304 366	MB	00005	27	130.233	1246 203 008	DAF	00180	53	130.265	0735 340 080	RVI	0150B	16
119.268	1290 304 366	MAN	00025	27	130.233	1246 203 008	DAF	0210A	32	130.265	0735 340 080	RVI	0160B	9
119.268	1290 304 366	IVE	00087	27	130.233	1246 203 008	VOL	00240	53	130.265	0735 340 080	DAF	0190B	9
119.268	1290 304 366	DAF	00165	27	130.233	1246 203 008	VOL	00250	53	130.265	0735 340 080	DAF	0220B	16
123.210	1304 332 178	MAN	0070B	15	130.233	1246 203 008	VOL	0260A	32	130.265	0735 340 080	DAF	0230B	9
123.210	1304 332 178	MAN	0080B	8	130.233	1246 203 008	KAS	00270	53	130.265	0735 340 080	KAS	0290B	9
123.210	1304 332 178	IVE	0110B	15	130.233	1246 203 008	KAS	00280	53	130.265	0735 340 080	KAS	0300B	9
123.210	1304 332 178	IVE	0120B	8	130.234	0750 117 083	MB	00010	47	130.310	0750 116 165	MAN	0060B	9
123.210	1304 332 178	RVI	0150B	15	130.234	0750 117 083	MAN	00030	47	130.310	0750 116 165	MAN	0070B	16
123.210	1304 332 178	RVI	0160B	8	130.234	0750 117 083	MAN	00040	47	130.310	0750 116 165	MAN	0080B	9
123.210	1304 332 178	DAF	0200B	8	130.234	0750 117 083	MAN	0050A	42	130.310	0750 116 165	IVE	0100B	9
123.210	1304 332 178	DAF	0220B	15	130.234	0750 117 083	MAN	0060A	36	130.310	0750 116 165	IVE	0110B	16
123.210	1304 332 178	DAF	0230B	8	130.234	0750 117 083	MAN	0070A	40	130.310	0750 116 165	IVE	0120B	9
123.218	1308 332 026	MB	0020B	9	130.234	0750 117 083	MAN	0080A	44	130.310	0750 116 165	RVI	0145B	9
123.218	1308 332 026	DAF	0210B	9	130.234	0750 117 083	IVE	00090	47	130.310	0750 116 165	RVI	0150B	16
123.218	1308 332 026	VOL	0260B	9	130.234	0750 117 083	IVE	0100A	36	130.310	0750 116 165	RVI	0160B	9
123.219	1304 332 043	MAN	0080B	8	130.234	0750 117 083	IVE	0110A	40	130.310	0750 116 165	DAF	0200B	9
123.219	1304 332 043	IVE	0120B	8	130.234	0750 117 083	IVE	0120A	44	130.310	0750 116 165	DAF	0220B	16
123.219	1304 332 043	RVI	0160B	8	130.234	0750 117 083	RVI	00130	47	130.310	0750 116 165	DAF	0230B	9
123.219	1304 332 043	DAF	0230B	8	130.234	0750 117 083	RVI	00140	47	130.310	0750 116 165	KAS	0300B	9
123.264	1304 332 072	MAN	0050B	8	130.234	0750 117 083	RVI	0145A	36	130.313	0750 117 079	MAN	0050A	2
123.264	1304 332 072	DAF	0190B	8	130.234	0750 117 083	RVI	0150A	40	130.313	0750 117 079	MAN	0070A	2
123.264	1304 332 072	KAS	0290B	8	130.234	0750 117 083	RVI	0160A	44	130.313	0750 117 079	MAN	0080A	2
123.265	1304 332 122	MAN	0060B	8	130.234	0750 117 083	DAF	00170	47	130.313	0750 117 079	IVE	0110A	2
123.265	1304 332 122	IVE	0100B	8	130.234	0750 117 083	DAF	00180	47	130.313	0750 117 079	IVE	0120A	2
123.265	1304 332 122	RVI	0145B	8	130.234	0750 117 083	DAF	0190A	42	130.313	0750 117 079	RVI	0150A	2
123.265	1304 332 122	KAS	0300B	8	130.234	0750 117 083	DAF	0200A	39	130.313	0750 117 079	RVI	0160A	2
123.266	1304 332 134	MAN	0080B	8	130.234	0750 117 083	DAF	0220A	40	130.313	0750 117 079	DAF	0190A	2
123.266	1304 332 134	IVE	0120B	8	130.234	0750 117 083	DAF	0230A	44	130.313	0750 117 079	DAF	0200A	2
123.266	1304 332 134	RVI	0160B	8	130.234	0750 117 083	VOL	00240	47	130.313	0750 117 079	DAF	0220A	2
123.266	1304 332 134	DAF	0230B	8	130.234	0750 117 083	VOL	00250	47	130.313	0750 117 079	DAF	0230A	2
128.224	1322 302 003	IVE	00083	1	130.234	0750 117 083	KAS	00270	47	130.313	0750 117 079	KAS	0290A	2
128.224	1322 302 003	RVI	00123	1	130.234	0750 117 083	KAS	00280	47	130.314	0735 371 749	MAN	0050A	37
128.225	1323 302 003	IVE	00085	1	130.234	0750 117 083	KAS	0290A	42	130.314	0735 371 749	MAN	0070A	35

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130.314	0735 371 749	MAN	0080A	39	130.687	0750 117 198	VOL	0260A	39	130.706	0750 117 518	RVI	0145A	2
130.314	0735 371 749	IVE	0110A	35	130.688	0735 370 742	MB	0020A	34	130.706	0750 117 518	DAF	00180	2
130.314	0735 371 749	IVE	0120A	39	130.688	0735 370 742	DAF	0210A	34	130.706	0750 117 518	DAF	00180	46
130.314	0735 371 749	RVI	0150A	35	130.688	0735 370 742	VOL	0260A	34	130.706	0750 117 518	VOL	00250	2
130.314	0735 371 749	RVI	0160A	39	130.689	0635 338 090	MB	0020B	10	130.706	0750 117 518	VOL	00250	46
130.314	0735 371 749	DAF	0190A	37	130.689	0635 338 090	DAF	0210B	10	130.706	0750 117 518	KAS	00280	2
130.314	0735 371 749	DAF	0200A	34	130.689	0635 338 090	VOL	0260B	10	130.706	0750 117 518	KAS	00280	46
130.314	0735 371 749	DAF	0220A	35	130.690	0750 116 048	MAN	0050B	20	130.706	0750 117 518	KAS	0300A	2
130.314	0735 371 749	DAF	0230A	39	130.690	0750 116 048	MAN	0060B	20	130.781	0750 116 323	IVE	00083	2
130.314	0735 371 749	KAS	0290A	37	130.690	0750 116 048	MAN	0070B	27	130.781	0750 116 323	RVI	00123	2
130.315	0735 371 605	MAN	0050A	34	130.690	0750 116 048	MAN	0080B	20	130.782	0750 116 368	IVE	00083	29
130.315	0735 371 605	MAN	0070A	32	130.690	0750 116 048	IVE	0100B	20	130.782	0750 116 368	RVI	00123	29
130.315	0735 371 605	MAN	0080A	36	130.690	0750 116 048	IVE	0110B	27	130.783	0635 372 013	IVE	00083	32
130.315	0735 371 605	IVE	0110A	32	130.690	0750 116 048	IVE	0120B	20	130.783	0635 372 013	RVI	00123	32
130.315	0735 371 605	IVE	0120A	36	130.690	0750 116 048	RVI	0145B	20	130.784	0735 330 479	IVE	00085	2
130.315	0735 371 605	RVI	0150A	32	130.690	0750 116 048	RVI	0150B	27	130.784	0735 330 479	RVI	00125	2
130.315	0735 371 605	RVI	0160A	36	130.690	0750 116 048	RVI	0160B	20	130.785	0735 330 712	IVE	00085	28
130.315	0735 371 605	DAF	0190A	34	130.690	0750 116 048	DAF	0190B	20	130.785	0735 330 712	RVI	00125	28
130.315	0735 371 605	DAF	0200A	31	130.690	0750 116 048	DAF	0200B	20	130.786	0635 374 002	IVE	00085	30
130.315	0735 371 605	DAF	0220A	32	130.690	0750 116 048	DAF	0220B	27	130.786	0635 374 002	RVI	00125	30
130.315	0735 371 605	DAF	0230A	36	130.690	0750 116 048	DAF	0230B	20	130.787	0735 330 685	MB	00005	1
130.315	0735 371 605	KAS	0290A	34	130.690	0750 116 048	KAS	0290B	20	130.787	0735 330 685	MAN	00025	1
130.683	0735 371 748	MAN	0050A	4	130.690	0750 116 048	KAS	0300B	20	130.787	0735 330 685	IVE	00087	1
130.683	0735 371 748	MAN	0070A	4	130.704	0750 117 347	MB	00010	2	130.787	0735 330 685	DAF	00165	1
130.683	0735 371 748	IVE	0110A	4	130.704	0750 117 347	MAN	00030	2	130.788	0750 116 373	MB	00005	39
130.683	0735 371 748	RVI	0150A	4	130.704	0750 117 347	IVE	00090	2	130.788	0750 116 373	MAN	00025	39
130.683	0735 371 748	DAF	0190A	4	130.704	0750 117 347	RVI	00130	2	130.788	0750 116 373	IVE	00087	39
130.683	0735 371 748	DAF	0200A	4	130.704	0750 117 347	DAF	00170	2	130.788	0750 116 373	DAF	00165	39
130.683	0735 371 748	DAF	0220A	4	130.704	0750 117 347	VOL	00240	2	130.789	0735 371 607	MB	00005	40
130.683	0735 371 748	KAS	0290A	4	130.704	0750 117 347	KAS	00270	2	130.789	0735 371 607	MAN	00025	40
130.684	0735 371 599	MAN	0060A	28	130.705	0735 370 730	MB	00010	45	130.789	0735 371 607	IVE	00087	40
130.684	0735 371 599	IVE	0100A	28	130.705	0735 370 730	MAN	00030	45	130.789	0735 371 607	DAF	00165	40
130.684	0735 371 599	RVI	0145A	28	130.705	0735 370 730	IVE	00090	45	130.790	0735 370 438	MB	00005	46
130.684	0735 371 599	KAS	0300A	28	130.705	0735 370 730	RVI	00130	45	130.790	0735 370 438	MAN	00025	46
130.685	0735 371 096	MAN	0060A	31	130.705	0735 370 730	DAF	00170	45	130.790	0735 370 438	IVE	00087	46
130.685	0735 371 096	IVE	0100A	31	130.705	0735 370 730	VOL	00240	45	130.790	0735 370 438	DAF	00165	46
130.685	0735 371 096	RVI	0145A	31	130.705	0735 370 730	KAS	00270	45	137.074	0750 115 227	MAN	0050A	15
130.685	0735 371 096	KAS	0300A	31	130.706	0750 117 518	MAN	00040	2	137.074	0750 115 227	MAN	0070A	15
130.686	0750 117 312	MB	0020A	2	130.706	0750 117 518	MAN	00040	46	137.074	0750 115 227	IVE	0110A	15
130.686	0750 117 312	DAF	0210A	2	130.706	0750 117 518	MAN	0060A	2	137.074	0750 115 227	RVI	0150A	15
130.686	0750 117 312	VOL	0260A	2	130.706	0750 117 518	IVE	0100A	2	137.074	0750 115 227	DAF	0190A	15
130.687	0750 117 198	MB	0020A	39	130.706	0750 117 518	RVI	00140	2	137.074	0750 115 227	DAF	0200A	15
130.687	0750 117 198	DAF	0210A	39	130.706	0750 117 518	RVI	00140	46	137.074	0750 115 227	DAF	0220A	15

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137.074	0750 115 227	KAS	0290A	15	137.143	0735 358 192	DAF	0230A	46	137.257	0735 320 500	IVE	0110A	26
137.078	0735 320 493	MB	00010	17	137.143	0735 358 192	VOL	0260A	41	137.257	0735 320 500	RVI	0150A	26
137.078	0735 320 493	MAN	00030	17	137.143	0735 358 192	KAS	0290A	44	137.257	0735 320 500	DAF	0190A	26
137.078	0735 320 493	IVE	00090	17	137.143	0735 358 192	KAS	0300A	40	137.257	0735 320 500	DAF	0220A	26
137.078	0735 320 493	RVI	00130	17	137.144	0735 371 406	MAN	0080A	12	137.257	0735 320 500	KAS	0290A	26
137.078	0735 320 493	DAF	00170	17	137.144	0735 371 406	IVE	0120A	12	137.258	0735 321 011	MAN	0050A	13
137.078	0735 320 493	VOL	00240	17	137.144	0735 371 406	RVI	0160A	12	137.258	0735 321 011	MAN	0070A	13
137.078	0735 320 493	KAS	00270	17	137.144	0735 371 406	DAF	0230A	12	137.258	0735 321 011	IVE	0110A	13
137.142	0735 320 816	MAN	0050A	24	137.145	0750 115 299	MAN	0080A	13	137.258	0735 321 011	RVI	0150A	13
137.142	0735 320 816	MAN	0070A	24	137.145	0750 115 299	IVE	0120A	13	137.258	0735 321 011	DAF	0190A	13
137.142	0735 320 816	MAN	0080A	4	137.145	0750 115 299	RVI	0160A	13	137.258	0735 321 011	DAF	0200A	13
137.142	0735 320 816	MAN	0080A	22	137.145	0750 115 299	DAF	0230A	13	137.258	0735 321 011	DAF	0220A	13
137.142	0735 320 816	MAN	0080A	24	137.146	0750 115 224	MAN	0080A 34A		137.258	0735 321 011	KAS	0290A	13
137.142	0735 320 816	IVE	0110A	24	137.146	0750 115 224	IVE	0120A 34A		137.259	0735 320 378	MAN	0060A	15
137.142	0735 320 816	IVE	0120A	4	137.146	0750 115 224	RVI	0160A 34A		137.259	0735 320 378	IVE	0100A	15
137.142	0735 320 816	IVE	0120A	22	137.146	0750 115 224	DAF	0230A 34A		137.259	0735 320 378	RVI	0145A	15
137.142	0735 320 816	IVE	0120A	24	137.147	0750 115 225	MAN	0050A	32	137.259	0735 320 378	KAS	0300A	15
137.142	0735 320 816	RVI	0150A	24	137.147	0750 115 225	MAN	0060A	26	137.260	0750 115 430	MAN	0060A	13
137.142	0735 320 816	RVI	0160A	4	137.147	0750 115 225	MAN	0070A	30	137.260	0750 115 430	MAN	0060A	23
137.142	0735 320 816	RVI	0160A	22	137.147	0750 115 225	MAN	0080A	34	137.260	0750 115 430	IVE	0100A	13
137.142	0735 320 816	RVI	0160A	24	137.147	0750 115 225	IVE	0100A	26	137.260	0750 115 430	IVE	0100A	23
137.142	0735 320 816	DAF	0190A	24	137.147	0750 115 225	IVE	0110A	30	137.260	0750 115 430	RVI	0145A	13
137.142	0735 320 816	DAF	0200A	24	137.147	0750 115 225	IVE	0120A	34	137.260	0750 115 430	RVI	0145A	23
137.142	0735 320 816	DAF	0220A	24	137.147	0750 115 225	RVI	0145A	26	137.260	0750 115 430	KAS	0300A	13
137.142	0735 320 816	DAF	0230A	4	137.147	0750 115 225	RVI	0150A	30	137.260	0750 115 430	KAS	0300A	23
137.142	0735 320 816	DAF	0230A	22	137.147	0750 115 225	RVI	0160A	34	137.261	0750 115 427	MB	0020A	25
137.142	0735 320 816	DAF	0230A	24	137.147	0750 115 225	DAF	0190A	32	137.261	0750 115 427	DAF	0210A	25
137.142	0735 320 816	KAS	0290A	24	137.147	0750 115 225	DAF	0200A	29	137.261	0750 115 427	VOL	0260A	25
137.143	0735 358 192	MB	0020A	41	137.147	0750 115 225	DAF	0220A	30	137.262	0750 115 533	MB	0020A	29
137.143	0735 358 192	MAN	0050A	44	137.147	0750 115 225	DAF	0230A	34	137.262	0750 115 533	DAF	0210A	29
137.143	0735 358 192	MAN	0060A	40	137.147	0750 115 225	KAS	0290A	32	137.262	0750 115 533	VOL	0260A	29
137.143	0735 358 192	MAN	0070A	42	137.147	0750 115 225	KAS	0300A	26	137.263	0735 321 012	MB	0020A	23
137.143	0735 358 192	MAN	0080A	46	137.150	0750 117 232	MAN	00040	4	137.263	0735 321 012	DAF	0210A	23
137.143	0735 358 192	IVE	0100A	40	137.150	0750 117 232	MAN	0060A	4	137.263	0735 321 012	VOL	0260A	23
137.143	0735 358 192	IVE	0110A	42	137.150	0750 117 232	IVE	0100A	4	137.264	0735 321 494	MB	0020A	14
137.143	0735 358 192	IVE	0120A	46	137.150	0750 117 232	RVI	00140	4	137.264	0735 321 494	MB	0020A	21
137.143	0735 358 192	RVI	0145A	40	137.150	0750 117 232	RVI	0145A	4	137.264	0735 321 494	DAF	0210A	14
137.143	0735 358 192	RVI	0150A	42	137.150	0750 117 232	DAF	00180	4	137.264	0735 321 494	DAF	0210A	21
137.143	0735 358 192	RVI	0160A	46	137.150	0750 117 232	VOL	00250	4	137.264	0735 321 494	VOL	0260A	14
137.143	0735 358 192	DAF	0190A	44	137.150	0750 117 232	KAS	00280	4	137.264	0735 321 494	VOL	0260A	21
137.143	0735 358 192	DAF	0200A	41	137.150	0750 117 232	KAS	0300A	4	137.269	0735 321 543	MB	00010	14
137.143	0735 358 192	DAF	0210A	41	137.257	0735 320 500	MAN	0050A	26	137.269	0735 321 543	MAN	00030	14
137.143	0735 358 192	DAF	0220A	42	137.257	0735 320 500	MAN	0070A	26	137.269	0735 321 543	IVE	00090	14

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137.269	0735 321 543	RVI	00130	14	137.273	0750 115 233	VOL	00250	54	137.297	0750 115 542	IVE	00083	37
137.269	0735 321 543	DAF	00170	14	137.273	0750 115 233	KAS	00270	54	137.297	0750 115 542	RVI	00123	37
137.269	0735 321 543	VOL	00240	14	137.273	0750 115 233	KAS	00280	54	137.298	0735 298 254	IVE	00085	4
137.269	0735 321 543	KAS	00270	14	137.274	0735 321 560	MAN	00040	14	137.298	0735 298 254	RVI	00125	4
137.270	0735 321 106	MB	00010	26	137.274	0735 321 560	RVI	00140	14	137.299	0735 321 449	IVE	00085	12
137.270	0735 321 106	MB	00010	28	137.274	0735 321 560	DAF	00180	14	137.299	0735 321 449	RVI	00125	12
137.270	0735 321 106	MAN	00030	26	137.274	0735 321 560	VOL	00250	14	137.300	0735 321 451	IVE	00085	14
137.270	0735 321 106	MAN	00030	28	137.274	0735 321 560	KAS	00280	14	137.300	0735 321 451	RVI	00125	14
137.270	0735 321 106	IVE	00090	26	137.275	0735 321 392	MAN	00040	17	137.301	0735 321 450	IVE	00085	36
137.270	0735 321 106	IVE	00090	28	137.275	0735 321 392	RVI	00140	17	137.301	0735 321 450	RVI	00125	36
137.270	0735 321 106	RVI	00130	26	137.275	0735 321 392	DAF	00180	17	137.303	0735 358 128	MB	00005	4
137.270	0735 321 106	RVI	00130	28	137.275	0735 321 392	VOL	00250	17	137.303	0735 358 128	MAN	00025	4
137.270	0735 321 106	DAF	00170	26	137.275	0735 321 392	KAS	00280	17	137.303	0735 358 128	IVE	00087	4
137.270	0735 321 106	DAF	00170	28	137.276	0735 321 432	MAN	00040	24	137.303	0735 358 128	DAF	00165	4
137.270	0735 321 106	VOL	00240	26	137.276	0735 321 432	MAN	00040	26	137.304	0735 321 527	MB	00005	12
137.270	0735 321 106	VOL	00240	28	137.276	0735 321 432	MAN	00040	39	137.304	0735 321 527	MAN	00025	12
137.270	0735 321 106	KAS	00270	26	137.276	0735 321 432	RVI	00140	24	137.304	0735 321 527	IVE	00087	12
137.270	0735 321 106	KAS	00270	28	137.276	0735 321 432	RVI	00140	26	137.304	0735 321 527	DAF	00165	12
137.271	0735 321 108	MB	00010	40	137.276	0735 321 432	RVI	00140	39	137.305	0735 321 531	MB	00005	34
137.271	0735 321 108	MAN	00030	40	137.276	0735 321 432	DAF	00180	24	137.305	0735 321 531	MAN	00025	34
137.271	0735 321 108	IVE	00090	40	137.276	0735 321 432	DAF	00180	26	137.305	0735 321 531	IVE	00087	34
137.271	0735 321 108	RVI	00130	40	137.276	0735 321 432	DAF	00180	39	137.305	0735 321 531	DAF	00165	34
137.271	0735 321 108	DAF	00170	40	137.276	0735 321 432	VOL	00250	24	137.306	0735 321 528	MB	00005	13
137.271	0735 321 108	VOL	00240	40	137.276	0735 321 432	VOL	00250	26	137.306	0735 321 528	MAN	00025	13
137.271	0735 321 108	KAS	00270	40	137.276	0735 321 432	VOL	00250	39	137.306	0735 321 528	IVE	00087	13
137.272	0735 298 255	MB	00010	43	137.276	0735 321 432	KAS	00280	24	137.306	0735 321 528	DAF	00165	13
137.272	0735 298 255	MAN	00030	43	137.276	0735 321 432	KAS	00280	26	137.307	0735 321 529	MB	00005	21
137.272	0735 298 255	IVE	00090	43	137.276	0735 321 432	KAS	00280	39	137.307	0735 321 529	MAN	00025	21
137.272	0735 298 255	RVI	00130	43	137.277	0735 321 394	MAN	00040	44	137.307	0735 321 529	IVE	00087	21
137.272	0735 298 255	DAF	00170	43	137.277	0735 321 394	RVI	00140	44	137.307	0735 321 529	DAF	00165	21
137.272	0735 298 255	VOL	00240	43	137.277	0735 321 394	DAF	00180	44	137.308	0735 321 530	MB	00005	23
137.272	0735 298 255	KAS	00270	43	137.277	0735 321 394	VOL	00250	44	137.308	0735 321 530	MAN	00025	23
137.273	0750 115 233	MB	00010	54	137.277	0735 321 394	KAS	00280	44	137.308	0735 321 530	IVE	00087	23
137.273	0750 115 233	MAN	00030	54	137.292	0750 115 539	IVE	00083	4	137.308	0735 321 530	DAF	00165	23
137.273	0750 115 233	MAN	00040	54	137.292	0750 115 539	RVI	00123	4	<b>139.553</b>	1307 304 156	MB	0020A	10
137.273	0750 115 233	IVE	00085	40	137.293	0750 115 546	IVE	00083	12	<b>139.553</b>	1307 304 156	DAF	0210A	10
137.273	0750 115 233	IVE	00090	54	137.293	0750 115 546	RVI	00123	12	<b>139.553</b>	1307 304 156	VOL	0260A	10
137.273	0750 115 233	RVI	00125	40	137.294	0750 115 529	IVE	00083	16	139.752	0501 316 333	MB	0020B	27
137.273	0750 115 233	RVI	00130	54	137.294	0750 115 529	RVI	00123	16	139.752	0501 316 333	DAF	0210B	27
137.273	0750 115 233	RVI	00140	54	137.295	0750 115 512	IVE	00083	23	139.752	0501 316 333	VOL	0260B	27
137.273	0750 115 233	DAF	00170	54	137.295	0750 115 512	RVI	00123	23	139.753	0750 111 149	MB	00010	1
137.273	0750 115 233	DAF	00180	54	137.296	0750 115 540	IVE	00083	27	139.753	0750 111 149	MB	0020A	1
137.273	0750 115 233	VOL	00240	54	137.296	0750 115 540	RVI	00123	27	139.753	0750 111 149	MAN	00030	1

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139.753	0750 111 149	MAN	0050A	1	141.146	1268 312 057	DAF	0230B	27	141.194	1290 306 066	KAS	00270	15
139.753	0750 111 149	MAN	0070A	1	141.163	1297 306 120	MB	0020B	25	141.194	1290 306 066	KAS	00270	29
139.753	0750 111 149	MAN	0080A	1	141.163	1297 306 120	DAF	0210B	25	141.194	1290 306 066	KAS	00270	46
139.753	0750 111 149	IVE	00090	1	141.163	1297 306 120	VOL	0260B	25	141.194	1290 306 066	KAS	00280	15
139.753	0750 111 149	IVE	0110A	1	141.194	1290 306 066	MB	00010	15	141.194	1290 306 066	KAS	0290B	22
139.753	0750 111 149	IVE	0120A	1	141.194	1290 306 066	MB	00010	29	141.194	1290 306 066	KAS	0300B	22
139.753	0750 111 149	RVI	00130	1	141.194	1290 306 066	MB	00010	46	141.194	1290 306 066	KAS	0300B	33
139.753	0750 111 149	RVI	0150A	1	141.194	1290 306 066	MAN	00030	15	141.195	1304 306 107	MAN	0060B	33
139.753	0750 111 149	RVI	0160A	1	141.194	1290 306 066	MAN	00030	29	141.195	1304 306 107	IVE	0100B	33
139.753	0750 111 149	DAF	00170	1	141.194	1290 306 066	MAN	00030	46	141.195	1304 306 107	RVI	0145B	33
139.753	0750 111 149	DAF	0190A	1	141.194	1290 306 066	MAN	00040	15	141.195	1304 306 107	KAS	0300B	33
139.753	0750 111 149	DAF	0200A	1	141.194	1290 306 066	MAN	0050B	22	143.116	1304 303 207	MAN	0050A	40
139.753	0750 111 149	DAF	0210A	1	141.194	1290 306 066	MAN	0060B	22	143.116	1304 303 207	DAF	0190A	40
139.753	0750 111 149	DAF	0220A	1	141.194	1290 306 066	MAN	0060B	33	143.116	1304 303 207	KAS	0290A	40
139.753	0750 111 149	DAF	0230A	1	141.194	1290 306 066	MAN	0070B	30	143.117	1304 303 230	MAN	0050A	40
139.753	0750 111 149	VOL	00240	1	141.194	1290 306 066	MAN	0080B	23	143.117	1304 303 230	DAF	0190A	40
139.753	0750 111 149	VOL	0260A	1	141.194	1290 306 066	IVE	00090	15	143.117	1304 303 230	KAS	0290A	40
139.753	0750 111 149	KAS	00270	1	141.194	1290 306 066	IVE	00090	29	143.118	1304 303 206	MAN	0050A	40
139.753	0750 111 149	KAS	0290A	1	141.194	1290 306 066	IVE	00090	46	143.118	1304 303 206	DAF	0190A	40
139.754	0734 310 386	MAN	00040	1	141.194	1290 306 066	IVE	0100B	22	143.118	1304 303 206	KAS	0290A	40
139.754	0734 310 386	RVI	00140	1	141.194	1290 306 066	IVE	0100B	33	143.119	1304 303 243	MAN	0070A	38
139.754	0734 310 386	DAF	00180	1	141.194	1290 306 066	IVE	0110B	30	143.119	1304 303 243	IVE	0110A	38
139.754	0734 310 386	VOL	00250	1	141.194	1290 306 066	IVE	0120B	23	143.119	1304 303 243	RVI	0150A	38
139.754	0734 310 386	KAS	00280	1	141.194	1290 306 066	RVI	00130	15	143.119	1304 303 243	DAF	0200A	37
141.061	1272 334 003	MAN	0050B	26	141.194	1290 306 066	RVI	00130	29	143.119	1304 303 243	DAF	0220A	38
141.061	1272 334 003	MAN	0060B	26	141.194	1290 306 066	RVI	00130	46	143.120	1304 303 289	MAN	0060A	37
141.061	1272 334 003	MAN	0070B	34	141.194	1290 306 066	RVI	00140	15	143.120	1304 303 289	IVE	0100A	37
141.061	1272 334 003	MAN	0080B	31	141.194	1290 306 066	RVI	0145B	22	143.120	1304 303 289	RVI	0145A	37
141.061	1272 334 003	IVE	0100B	26	141.194	1290 306 066	RVI	0145B	33	143.120	1304 303 289	KAS	0300A	37
141.061	1272 334 003	IVE	0110B	34	141.194	1290 306 066	RVI	0150B	30	143.121	1304 303 292	MAN	0060A	34
141.061	1272 334 003	IVE	0120B	31	141.194	1290 306 066	RVI	0160B	23	143.121	1304 303 292	IVE	0100A	34
141.061	1272 334 003	RVI	0145B	26	141.194	1290 306 066	DAF	00170	15	143.121	1304 303 292	RVI	0145A	34
141.061	1272 334 003	RVI	0150B	34	141.194	1290 306 066	DAF	00170	29	143.121	1304 303 292	KAS	0300A	34
141.061	1272 334 003	RVI	0160B	31	141.194	1290 306 066	DAF	00170	46	143.122	1304 303 209	MAN	0070A	38
141.061	1272 334 003	DAF	0190B	26	141.194	1290 306 066	DAF	00180	15	143.122	1304 303 209	IVE	0110A	38
141.061	1272 334 003	DAF	0200B	26	141.194	1290 306 066	DAF	0190B	22	143.122	1304 303 209	RVI	0150A	38
141.061	1272 334 003	DAF	0220B	34	141.194	1290 306 066	DAF	0200B	22	143.122	1304 303 209	DAF	0220A	38
141.061	1272 334 003	DAF	0230B	31	141.194	1290 306 066	DAF	0220B	30	143.123	1304 303 286	MAN	0070A	38
141.061	1272 334 003	KAS	0290B	26	141.194	1290 306 066	DAF	0230B	23	143.123	1304 303 286	IVE	0110A	38
141.061	1272 334 003	KAS	0300B	26	141.194	1290 306 066	VOL	00240	15	143.123	1304 303 286	RVI	0150A	38
141.146	1268 312 057	MAN	0080B	27	141.194	1290 306 066	VOL	00240	29	143.123	1304 303 286	DAF	0220A	38
141.146	1268 312 057	IVE	0120B	27	141.194	1290 306 066	VOL	00240	46	143.124	1308 303 021	MB	0020A	37
141.146	1268 312 057	RVI	0160B	27	141.194	1290 306 066	VOL	00250	15	143.124	1308 303 021	DAF	0210A	37

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143.124	1308 303 021	VOL	0260A	37	145.533	1304 304 358	DAF	0230A	32	145.828	1304 304 426	IVE	0110A	27
143.125	1304 303 172	MAN	0070A	38	145.720	1322 204 012	IVE	00083	24	145.828	1304 304 426	RVI	0150A	27
143.125	1304 303 172	IVE	0110A	38	145.720	1322 204 012	RVI	00123	24	145.828	1304 304 426	DAF	0220A	27
143.125	1304 303 172	RVI	0150A	38	145.817	1304 304 430	MAN	0050A	27	145.829	1304 304 428	MAN	0070A	27
143.125	1304 303 172	DAF	0220A	38	145.817	1304 304 430	DAF	0190A	27	145.829	1304 304 428	IVE	0110A	27
145.478	1304 302 169	MAN	0080A	3	145.817	1304 304 430	KAS	0290A	27	145.829	1304 304 428	RVI	0150A	27
145.478	1304 302 169	IVE	0120A	3	145.818	1304 304 463	MAN	0050A	16	145.829	1304 304 428	DAF	0220A	27
145.478	1304 302 169	RVI	0160A	3	145.818	1304 304 463	DAF	0190A	16	145.830	1304 304 471	MAN	0070A	23
145.478	1304 302 169	DAF	0230A	3	145.818	1304 304 463	KAS	0290A	16	145.830	1304 304 471	IVE	0110A	23
145.479	1304 304 475	MAN	0080A	21	145.819	1304 304 480	MAN	0050A	12	145.830	1304 304 471	RVI	0150A	23
145.479	1304 304 475	IVE	0120A	21	145.819	1304 304 480	DAF	0190A	12	145.830	1304 304 471	DAF	0220A	23
145.479	1304 304 475	RVI	0160A	21	145.819	1304 304 480	KAS	0290A	12	145.831	1304 304 367	MAN	0070A	16
145.479	1304 304 475	DAF	0230A	21	145.820	1304 304 461	MAN	0050A	16	145.831	1304 304 367	IVE	0110A	16
145.480	1304 304 497	MAN	0080A	25	145.820	1304 304 461	DAF	0190A	16	145.831	1304 304 367	RVI	0150A	16
145.480	1304 304 497	IVE	0120A	25	145.820	1304 304 461	KAS	0290A	16	145.831	1304 304 367	DAF	0220A	16
145.480	1304 304 497	RVI	0160A	25	145.821	1304 304 479	MAN	0050A	12	145.832	1304 304 472	MAN	0070A	12
145.480	1304 304 497	DAF	0230A	25	145.821	1304 304 479	DAF	0190A	12	145.832	1304 304 472	IVE	0110A	12
145.481	1304 304 549	MAN	0080A	32	145.821	1304 304 479	KAS	0290A	12	145.832	1304 304 472	RVI	0150A	12
145.481	1304 304 549	IVE	0120A	32	145.822	1304 304 478	MAN	0050A	12	145.832	1304 304 472	DAF	0220A	12
145.481	1304 304 549	RVI	0160A	32	145.822	1304 304 478	DAF	0190A	12	145.833	1304 304 543	MAN	0070A	27
145.481	1304 304 549	DAF	0230A	32	145.822	1304 304 478	KAS	0290A	12	145.833	1304 304 543	IVE	0110A	27
145.516	1304 302 150	MAN	0080A	3	145.823	1304 304 499	MAN	0070A	16	145.833	1304 304 543	RVI	0150A	27
145.516	1304 302 150	IVE	0120A	3	145.823	1304 304 499	IVE	0110A	16	145.833	1304 304 543	DAF	0220A	27
145.516	1304 302 150	RVI	0160A	3	145.823	1304 304 499	RVI	0150A	16	145.834	1304 304 569	MAN	0070A	23
145.516	1304 302 150	DAF	0230A	3	145.823	1304 304 499	DAF	0200A	16	145.834	1304 304 569	IVE	0110A	23
145.518	1304 304 417	MAN	0080A	21	145.823	1304 304 499	DAF	0220A	16	145.834	1304 304 569	RVI	0150A	23
145.518	1304 304 417	IVE	0120A	21	145.824	1304 304 500	MAN	0070A	12	145.834	1304 304 569	DAF	0220A	23
145.518	1304 304 417	RVI	0160A	21	145.824	1304 304 500	IVE	0110A	12	145.835	1304 304 570	MAN	0070A	16
145.518	1304 304 417	DAF	0230A	21	145.824	1304 304 500	RVI	0150A	12	145.835	1304 304 570	IVE	0110A	16
145.519	1304 304 422	MAN	0080A	25	145.824	1304 304 500	DAF	0200A	12	145.835	1304 304 570	RVI	0150A	16
145.519	1304 304 422	IVE	0120A	25	145.824	1304 304 500	DAF	0220A	12	145.835	1304 304 570	DAF	0220A	16
145.519	1304 304 422	RVI	0160A	25	145.825	1304 304 581	MAN	0060A	16	145.836	1304 304 571	MAN	0070A	12
145.519	1304 304 422	DAF	0230A	25	145.825	1304 304 581	IVE	0100A	16	145.836	1304 304 571	IVE	0110A	12
145.520	1304 304 376	MAN	0080A	32	145.825	1304 304 581	RVI	0145A	16	145.836	1304 304 571	RVI	0150A	12
145.520	1304 304 376	IVE	0120A	32	145.825	1304 304 581	KAS	0300A	16	145.836	1304 304 571	DAF	0220A	12
145.520	1304 304 376	RVI	0160A	32	145.826	1308 304 064	MB	0020A	13	145.837	1308 304 086	MB	0020A	26
145.520	1304 304 376	DAF	0230A	32	145.826	1308 304 064	DAF	0210A	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	0260A	26
145.521	1308 304 054	DAF	0210A	16	145.827	1304 304 582	MAN	0060A	16	145.838	1308 304 057	MB	0020A	22
145.521	1308 304 054	VOL	0260A	16	145.827	1304 304 582	IVE	0100A	16	145.838	1308 304 057	DAF	0210A	22
145.533	1304 304 358	MAN	0080A	32	145.827	1304 304 582	RVI	0145A	16	145.838	1308 304 057	VOL	0260A	22
145.533	1304 304 358	IVE	0120A	32	145.827	1304 304 582	KAS	0300A	16	145.839	1304 304 365	MAN	0070A	12
145.533	1304 304 358	RVI	0160A	32	145.828	1304 304 426	MAN	0070A	27	145.839	1304 304 365	IVE	0110A	12

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145.839	1304 304 365	RVI	0150A	12	145.891	1310 304 124	IVE	00090	25	145.898	1310 304 186	KAS	00280	23
145.839	1304 304 365	DAF	0220A	12	145.891	1310 304 124	RVI	00130	25	145.899	1310 304 185	MAN	00040	23
145.840	1304 304 369	MAN	0070A	23	145.891	1310 304 124	DAF	00170	25	145.899	1310 304 185	RVI	00140	23
145.840	1304 304 369	IVE	0110A	23	145.891	1310 304 124	VOL	00240	25	145.899	1310 304 185	DAF	00180	23
145.840	1304 304 369	RVI	0150A	23	145.891	1310 304 124	KAS	00270	25	145.899	1310 304 185	VOL	00250	23
145.840	1304 304 369	DAF	0220A	23	145.892	1310 304 012	MB	00010	30	145.899	1310 304 185	KAS	00280	23
145.886	1310 304 091	MB	00010	13	145.892	1310 304 012	MAN	00030	30	145.900	1310 304 196	MAN	00040	27
145.886	1310 304 091	MAN	00030	13	145.892	1310 304 012	IVE	00090	30	145.900	1310 304 196	RVI	00140	27
145.886	1310 304 091	IVE	00090	13	145.892	1310 304 012	RVI	00130	30	145.900	1310 304 196	DAF	00180	27
145.886	1310 304 091	RVI	00130	13	145.892	1310 304 012	DAF	00170	30	145.900	1310 304 196	VOL	00250	27
145.886	1310 304 091	DAF	00170	13	145.892	1310 304 012	VOL	00240	30	145.900	1310 304 196	KAS	00280	27
145.886	1310 304 091	VOL	00240	13	145.892	1310 304 012	KAS	00270	30	145.901	1310 304 182	MAN	00040	41
145.886	1310 304 091	KAS	00270	13	145.893	1310 304 011	MB	00010	41	145.901	1310 304 182	RVI	00140	41
145.887	1310 304 092	MB	00010	13	145.893	1310 304 011	MAN	00030	41	145.901	1310 304 182	DAF	00180	41
145.887	1310 304 092	MAN	00030	13	145.893	1310 304 011	IVE	00090	41	145.901	1310 304 182	VOL	00250	41
145.887	1310 304 092	IVE	00090	13	145.893	1310 304 011	RVI	00130	41	145.901	1310 304 182	KAS	00280	41
145.887	1310 304 092	RVI	00130	13	145.893	1310 304 011	DAF	00170	41	145.954	1322 204 031	IVE	00083	11
145.887	1310 304 092	DAF	00170	13	145.893	1310 304 011	VOL	00240	41	145.954	1322 204 031	RVI	00123	11
145.887	1310 304 092	VOL	00240	13	145.893	1310 304 011	KAS	00270	41	145.955	1322 204 034	IVE	00083	15
145.887	1310 304 092	KAS	00270	13	145.894	1310 304 138	MAN	00040	13	145.955	1322 204 034	RVI	00123	15
145.888	1310 304 088	MB	00010	18	145.894	1310 304 138	RVI	00140	13	145.956	1322 204 035	IVE	00083	21
145.888	1310 304 088	MAN	00030	18	145.894	1310 304 138	DAF	00180	13	145.956	1322 204 035	RVI	00123	21
145.888	1310 304 088	IVE	00090	18	145.894	1310 304 138	VOL	00250	13	145.957	1322 204 039	IVE	00083	28
145.888	1310 304 088	RVI	00130	18	145.894	1310 304 138	KAS	00280	13	145.957	1322 204 039	RVI	00123	28
145.888	1310 304 088	DAF	00170	18	145.895	1310 304 137	MAN	00040	13	145.958	1322 303 005	IVE	00083	34
145.888	1310 304 088	VOL	00240	18	145.895	1310 304 137	RVI	00140	13	145.958	1322 303 005	RVI	00123	34
145.888	1310 304 088	KAS	00270	18	145.895	1310 304 137	DAF	00180	13	145.959	1323 204 019	IVE	00085	11
145.889	1310 304 093	MB	00010	18	145.895	1310 304 137	VOL	00250	13	145.959	1323 204 019	RVI	00125	11
145.889	1310 304 093	MAN	00030	18	145.895	1310 304 137	KAS	00280	13	145.960	1323 204 007	IVE	00085	15
145.889	1310 304 093	IVE	00090	18	145.896	1310 304 178	MAN	00040	18	145.960	1323 204 007	RVI	00125	15
145.889	1310 304 093	RVI	00130	18	145.896	1310 304 178	RVI	00140	18	145.961	1323 204 008	IVE	00085	22
145.889	1310 304 093	DAF	00170	18	145.896	1310 304 178	DAF	00180	18	145.961	1323 204 008	RVI	00125	22
145.889	1310 304 093	VOL	00240	18	145.896	1310 304 178	VOL	00250	18	145.962	1323 304 021	IVE	00085	25
145.889	1310 304 093	KAS	00270	18	145.896	1310 304 178	KAS	00280	18	145.962	1323 304 021	RVI	00125	25
145.890	1310 304 085	MB	00010	25	145.897	1310 304 177	MAN	00040	18	145.963	1290 304 548	MB	00005	11
145.890	1310 304 085	MAN	00030	25	145.897	1310 304 177	RVI	00140	18	145.963	1290 304 548	MAN	00025	11
145.890	1310 304 085	IVE	00090	25	145.897	1310 304 177	DAF	00180	18	145.963	1290 304 548	IVE	00087	11
145.890	1310 304 085	RVI	00130	25	145.897	1310 304 177	VOL	00250	18	145.963	1290 304 548	DAF	00165	11
145.890	1310 304 085	DAF	00170	25	145.897	1310 304 177	KAS	00280	18	146.394	1304 303 273	MAN	0080A	40
145.890	1310 304 085	VOL	00240	25	145.898	1310 304 186	MAN	00040	23	146.394	1304 303 273	IVE	0120A	40
145.890	1310 304 085	KAS	00270	25	145.898	1310 304 186	RVI	00140	23	146.394	1304 303 273	RVI	0160A	40
145.891	1310 304 124	MB	00010	25	145.898	1310 304 186	DAF	00180	23	146.394	1304 303 273	DAF	0230A	40
145.891	1310 304 124	MAN	00030	25	145.898	1310 304 186	VOL	00250	23	146.395	1304 303 212	MAN	0080A	41

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146.395	1304 303 212	IVE	0120A	41	146.584	1304 303 272	DAF	0220A	36	146.609	1310 303 033	VOL	00240	49
146.395	1304 303 212	RVI	0160A	41	146.585	1308 303 027	MB	0020A	36	146.609	1310 303 033	KAS	00270	49
146.395	1304 303 212	DAF	0230A	41	146.585	1308 303 027	DAF	0210A	36	146.610	1310 303 045	MB	00010	49
146.396	1304 303 214	MAN	0080A	42	146.585	1308 303 027	VOL	0260A	36	146.610	1310 303 045	MAN	00030	49
146.396	1304 303 214	IVE	0120A	42	146.586	1304 303 294	MAN	0060A	32	146.610	1310 303 045	IVE	00090	49
146.396	1304 303 214	RVI	0160A	42	146.586	1304 303 294	IVE	0100A	32	146.610	1310 303 045	RVI	00130	49
146.396	1304 303 214	DAF	0230A	42	146.586	1304 303 294	RVI	0145A	32	146.610	1310 303 045	DAF	00170	49
146.397	1304 304 516	MAN	0080A	14	146.586	1304 303 294	KAS	0300A	32	146.610	1310 303 045	VOL	00240	49
146.397	1304 304 516	IVE	0120A	14	146.587	1304 303 210	MAN	0070A	37	146.610	1310 303 045	KAS	00270	49
146.397	1304 304 516	RVI	0160A	14	146.587	1304 303 210	IVE	0110A	37	146.611	1310 303 051	MB	00010	50
146.397	1304 304 516	DAF	0230A	14	146.587	1304 303 210	RVI	0150A	37	146.611	1310 303 051	MAN	00030	50
146.432	1308 303 023	MB	0020A	35	146.587	1304 303 210	DAF	0220A	37	146.611	1310 303 051	IVE	00090	50
146.432	1308 303 023	DAF	0210A	35	146.588	1304 303 285	MAN	0070A	36	146.611	1310 303 051	RVI	00130	50
146.432	1308 303 023	VOL	0260A	35	146.588	1304 303 285	IVE	0110A	36	146.611	1310 303 051	DAF	00170	50
146.434	1304 303 283	MAN	0080A	40	146.588	1304 303 285	RVI	0150A	36	146.611	1310 303 051	VOL	00240	50
146.434	1304 303 283	IVE	0120A	40	146.588	1304 303 285	DAF	0220A	36	146.611	1310 303 051	KAS	00270	50
146.434	1304 303 283	RVI	0160A	40	146.589	1304 303 287	MAN	0070A	37	146.612	1310 303 050	MB	00010	50
146.434	1304 303 283	DAF	0230A	40	146.589	1304 303 287	IVE	0110A	37	146.612	1310 303 050	MAN	00030	50
146.436	1304 303 175	MAN	0080A	41	146.589	1304 303 287	RVI	0150A	37	146.612	1310 303 050	IVE	00090	50
146.436	1304 303 175	IVE	0120A	41	146.589	1304 303 287	DAF	0220A	37	146.612	1310 303 050	RVI	00130	50
146.436	1304 303 175	RVI	0160A	41	146.590	1304 303 171	MAN	0070A	37	146.612	1310 303 050	DAF	00170	50
146.436	1304 303 175	DAF	0230A	41	146.590	1304 303 171	IVE	0110A	37	146.612	1310 303 050	VOL	00240	50
146.438	1304 303 192	MAN	0080A	42	146.590	1304 303 171	RVI	0150A	37	146.612	1310 303 050	KAS	00270	50
146.438	1304 303 192	IVE	0120A	42	146.590	1304 303 171	DAF	0220A	37	146.613	1310 303 031	MB	00010	51
146.438	1304 303 192	RVI	0160A	42	146.600	1310 303 032	MB	00010	48	146.613	1310 303 031	MAN	00030	51
146.438	1304 303 192	DAF	0230A	42	146.600	1310 303 032	MAN	00030	48	146.613	1310 303 031	IVE	00090	51
146.439	1304 304 518	MAN	0080A	14	146.600	1310 303 032	IVE	00090	48	146.613	1310 303 031	RVI	00130	51
146.439	1304 304 518	IVE	0120A	14	146.600	1310 303 032	RVI	00130	48	146.613	1310 303 031	DAF	00170	51
146.439	1304 304 518	RVI	0160A	14	146.600	1310 303 032	DAF	00170	48	146.613	1310 303 031	VOL	00240	51
146.439	1304 304 518	DAF	0230A	14	146.600	1310 303 032	VOL	00240	48	146.613	1310 303 031	KAS	00270	51
146.581	1304 303 219	MAN	0050A	38	146.600	1310 303 032	KAS	00270	48	146.614	1310 303 052	MB	00010	51
146.581	1304 303 219	DAF	0190A	38	146.605	1310 303 044	MB	00010	48	146.614	1310 303 052	MAN	00030	51
146.581	1304 303 219	KAS	0290A	38	146.605	1310 303 044	MAN	00030	48	146.614	1310 303 052	IVE	00090	51
146.582	1304 303 218	MAN	0050A	38	146.605	1310 303 044	IVE	00090	48	146.614	1310 303 052	RVI	00130	51
146.582	1304 303 218	DAF	0190A	38	146.605	1310 303 044	RVI	00130	48	146.614	1310 303 052	DAF	00170	51
146.582	1304 303 218	KAS	0290A	38	146.605	1310 303 044	DAF	00170	48	146.614	1310 303 052	VOL	00240	51
146.583	1304 303 217	MAN	0050A	38	146.605	1310 303 044	VOL	00240	48	146.614	1310 303 052	KAS	00270	51
146.583	1304 303 217	DAF	0190A	38	146.605	1310 303 044	KAS	00270	48	146.615	1310 303 069	MAN	00040	48
146.583	1304 303 217	KAS	0290A	38	146.609	1310 303 033	MB	00010	49	146.615	1310 303 069	RVI	00140	48
146.584	1304 303 272	MAN	0070A	36	146.609	1310 303 033	MAN	00030	49	146.615	1310 303 069	DAF	00180	48
146.584	1304 303 272	IVE	0110A	36	146.609	1310 303 033	IVE	00090	49	146.615	1310 303 069	VOL	00250	48
146.584	1304 303 272	RVI	0150A	36	146.609	1310 303 033	RVI	00130	49	146.615	1310 303 069	KAS	00280	48
146.584	1304 303 272	DAF	0200A	35	146.609	1310 303 033	DAF	00170	49	146.616	1310 303 068	MAN	00040	48

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146.616	1310 303 068	RVI	00140	48	146.656	1290 304 547	MAN	00025	11	146.667	1290 303 203	MB	00005	41
146.616	1310 303 068	DAF	00180	48	146.656	1290 304 547	IVE	00087	11	146.667	1290 303 203	MAN	00025	41
146.616	1310 303 068	VOL	00250	48	146.656	1290 304 547	DAF	00165	11	146.667	1290 303 203	IVE	00087	41
146.616	1310 303 068	KAS	00280	48	146.657	1290 304 574	MB	00005	14	146.667	1290 303 203	DAF	00165	41
146.617	1310 303 059	MAN	00040	49	146.657	1290 304 574	MAN	00025	14	146.668	1290 303 204	MB	00005	42
146.617	1310 303 059	RVI	00140	49	146.657	1290 304 574	IVE	00087	14	146.668	1290 303 204	MAN	00025	42
146.617	1310 303 059	DAF	00180	49	146.657	1290 304 574	DAF	00165	14	146.668	1290 303 204	IVE	00087	42
146.617	1310 303 059	VOL	00250	49	146.658	1290 304 581	MB	00005	20	146.668	1290 303 204	DAF	00165	42
146.617	1310 303 059	KAS	00280	49	146.658	1290 304 581	MAN	00025	20	147.130	1304 305 040	MAN	0080A	47
146.618	1310 303 074	MAN	00040	49	146.658	1290 304 581	IVE	00087	20	147.130	1304 305 040	IVE	0120A	47
146.618	1310 303 074	RVI	00140	49	146.658	1290 304 581	DAF	00165	20	147.130	1304 305 040	RVI	0160A	47
146.618	1310 303 074	DAF	00180	49	146.659	1290 304 487	MB	00005	24	147.130	1304 305 040	DAF	0230A	47
146.618	1310 303 074	VOL	00250	49	146.659	1290 304 487	MAN	00025	24	147.131	1304 304 671	MAN	0080A	35
146.618	1310 303 074	KAS	00280	49	146.659	1290 304 487	IVE	00087	24	147.131	1304 304 671	IVE	0120A	35
146.619	1310 303 062	MAN	00040	50	146.659	1290 304 487	DAF	00165	24	147.131	1304 304 671	RVI	0160A	35
146.619	1310 303 062	RVI	00140	50	146.660	1290 304 572	MB	00005	35	147.131	1304 304 671	DAF	0230A	35
146.619	1310 303 062	DAF	00180	50	146.660	1290 304 572	MAN	00025	35	147.145	1304 305 041	MAN	0080A	47
146.619	1310 303 062	VOL	00250	50	146.660	1290 304 572	IVE	00087	35	147.145	1304 305 041	IVE	0120A	47
146.619	1310 303 062	KAS	00280	50	146.660	1290 304 572	DAF	00165	35	147.145	1304 305 041	RVI	0160A	47
146.620	1310 303 075	MAN	00040	50	146.661	1290 303 200	MB	00005	41	147.145	1304 305 041	DAF	0230A	47
146.620	1310 303 075	RVI	00140	50	146.661	1290 303 200	MAN	00025	41	147.146	1304 304 669	MAN	0080A	35
146.620	1310 303 075	DAF	00180	50	146.661	1290 303 200	IVE	00087	41	147.146	1304 304 669	IVE	0120A	35
146.620	1310 303 075	VOL	00250	50	146.661	1290 303 200	DAF	00165	41	147.146	1304 304 669	RVI	0160A	35
146.620	1310 303 075	KAS	00280	50	146.662	1290 303 199	MB	00005	42	147.146	1304 304 669	DAF	0230A	35
146.621	1310 303 072	MAN	00040	51	146.662	1290 303 199	MAN	00025	42	147.149	1304 304 670	MAN	0080A	35
146.621	1310 303 072	RVI	00140	51	146.662	1290 303 199	IVE	00087	42	147.149	1304 304 670	IVE	0120A	35
146.621	1310 303 072	DAF	00180	51	146.662	1290 303 199	DAF	00165	42	147.149	1304 304 670	RVI	0160A	35
146.621	1310 303 072	VOL	00250	51	146.663	1290 303 198	MB	00005	43	147.149	1304 304 670	DAF	0230A	35
146.621	1310 303 072	KAS	00280	51	146.663	1290 303 198	MAN	00025	43	147.150	1304 305 039	MAN	0080A	47
146.622	1310 303 073	MAN	00040	51	146.663	1290 303 198	IVE	00087	43	147.150	1304 305 039	IVE	0120A	47
146.622	1310 303 073	RVI	00140	51	146.663	1290 303 198	DAF	00165	43	147.150	1304 305 039	RVI	0160A	47
146.622	1310 303 073	DAF	00180	51	146.664	1290 303 197	MB	00005	44	147.150	1304 305 039	DAF	0230A	47
146.622	1310 303 073	VOL	00250	51	146.664	1290 303 197	MAN	00025	44	147.219	1304 304 446	MAN	0050A	33
146.622	1310 303 073	KAS	00280	51	146.664	1290 303 197	IVE	00087	44	147.219	1304 304 446	DAF	0190A	33
146.650	1323 303 016	IVE	00085	31	146.664	1290 303 197	DAF	00165	44	147.219	1304 304 446	KAS	0290A	33
146.650	1323 303 016	RVI	00125	31	146.665	1290 304 485	MB	00005	24	147.220	1304 304 464	MAN	0050A	23
146.651	1323 303 041	IVE	00085	32	146.665	1290 304 485	MAN	00025	24	147.220	1304 304 464	DAF	0190A	23
146.651	1323 303 041	RVI	00125	32	146.665	1290 304 485	IVE	00087	24	147.220	1304 304 464	KAS	0290A	23
146.652	1323 203 005	IVE	00085	33	146.665	1290 304 485	DAF	00165	24	147.221	1304 303 225	MAN	0050A	39
146.652	1323 203 005	RVI	00125	33	146.666	1290 303 202	MB	00005	44	147.221	1304 303 225	DAF	0190A	39
146.652	1323 203 005	DAF	00180	33	146.666	1290 303 202	MAN	00025	44	147.221	1304 303 225	KAS	0290A	39
146.652	1323 203 005	VOL	00250	33	146.666	1290 303 202	IVE	00087	44	147.222	1304 304 486	MAN	0050A	23
146.653	1323 203 004	IVE	00085	35	146.666	1290 303 202	DAF	00165	44	147.222	1304 304 486	DAF	0190A	23
146.653	1323 203 004	RVI	00125	35										
146.656	1290 304 547	MB	00005	11										

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147.222	1304 304 486	KAS	0290A	23	147.233	1304 304 637	RVI	0145A	12	147.250	1323 305 007	IVE	00085	39
147.223	1304 303 224	MAN	0050A	39	147.233	1304 304 637	KAS	0300A	12	147.250	1323 305 007	RVI	00125	39
147.223	1304 303 224	DAF	0190A	39	147.234	1304 303 293	MAN	0060A	33	147.251	1290 304 058	MB	00005	37
147.223	1304 303 224	KAS	0290A	39	147.234	1304 303 293	IVE	0100A	33	147.251	1290 304 058	MAN	00025	37
147.224	1304 304 462	MAN	0050A	23	147.234	1304 303 293	RVI	0145A	33	147.251	1290 304 058	IVE	00087	37
147.224	1304 304 462	DAF	0190A	23	147.234	1304 303 293	KAS	0300A	33	147.251	1290 304 058	DAF	00165	37
147.224	1304 304 462	KAS	0290A	23	147.235	1304 304 437	MAN	0070A	31	147.252	1290 305 034	MB	00005	47
147.225	1304 303 223	MAN	0050A	39	147.235	1304 304 437	IVE	0110A	31	147.252	1290 305 034	MAN	00025	47
147.225	1304 303 223	DAF	0190A	39	147.235	1304 304 437	RVI	0150A	31	147.252	1290 305 034	IVE	00087	47
147.225	1304 303 223	KAS	0290A	39	147.235	1304 304 437	DAF	0220A	31	147.252	1290 305 034	DAF	00165	47
147.226	1304 304 435	MAN	0070A	31	147.236	1304 304 553	MAN	0070A	31	150.135	1304 332 215	MAN	0070B	17
147.226	1304 304 435	IVE	0110A	31	147.236	1304 304 553	IVE	0110A	31	150.135	1304 332 215	MAN	0080B	10
147.226	1304 304 435	RVI	0150A	31	147.236	1304 304 553	RVI	0150A	31	150.135	1304 332 215	IVE	0110B	17
147.226	1304 304 435	DAF	0200A	30	147.236	1304 304 553	DAF	0220A	31	150.135	1304 332 215	IVE	0120B	10
147.226	1304 304 435	DAF	0220A	31	147.237	1308 304 052	MB	0020A	30	150.135	1304 332 215	RVI	0150B	17
147.227	1304 304 498	MAN	0070A	23	147.237	1308 304 052	DAF	0210A	30	150.135	1304 332 215	RVI	0160B	10
147.227	1304 304 498	IVE	0110A	23	147.237	1308 304 052	VOL	0260A	30	150.135	1304 332 215	DAF	0200B	10
147.227	1304 304 498	RVI	0150A	23	147.238	1310 304 200	MB	00010	44	150.135	1304 332 215	DAF	0220B	17
147.227	1304 304 498	DAF	0200A	23	147.238	1310 304 200	MAN	00030	44	150.135	1304 332 215	DAF	0230B	10
147.227	1304 304 498	DAF	0220A	23	147.238	1310 304 200	IVE	00090	44	150.139	1304 332 044	MAN	0080B	10
147.228	1304 303 244	MAN	0070A	37	147.238	1310 304 200	RVI	00130	44	150.139	1304 332 044	IVE	0120B	10
147.228	1304 303 244	IVE	0110A	37	147.238	1310 304 200	DAF	00170	44	150.139	1304 332 044	RVI	0160B	10
147.228	1304 303 244	RVI	0150A	37	147.238	1310 304 200	VOL	00240	44	150.139	1304 332 044	DAF	0230B	10
147.228	1304 303 244	DAF	0200A	36	147.238	1310 304 200	KAS	00270	44	150.141	1304 332 060	MAN	0070B	17
147.228	1304 303 244	DAF	0220A	37	147.239	1310 305 003	MB	00010	55	150.141	1304 332 060	MAN	0080B	10
147.229	1304 304 586	MAN	0060A	24	147.239	1310 305 003	MAN	00030	55	150.141	1304 332 060	IVE	0110B	17
147.229	1304 304 586	IVE	0100A	24	147.239	1310 305 003	IVE	00090	55	150.141	1304 332 060	IVE	0120B	10
147.229	1304 304 586	RVI	0145A	24	147.239	1310 305 003	RVI	00130	55	150.141	1304 332 060	RVI	0150B	17
147.229	1304 304 586	KAS	0300A	24	147.239	1310 305 003	DAF	00170	55	150.141	1304 332 060	RVI	0160B	10
147.230	1304 304 672	MAN	0060A	27	147.239	1310 305 003	VOL	00240	55	150.141	1304 332 060	DAF	0220B	17
147.230	1304 304 672	IVE	0100A	27	147.239	1310 305 003	KAS	00270	55	150.141	1304 332 060	DAF	0230B	10
147.230	1304 304 672	RVI	0145A	27	147.240	1310 304 201	MAN	00040	45	150.163	1304 332 071	MAN	0050B	10
147.230	1304 304 672	KAS	0300A	27	147.240	1310 304 201	RVI	00140	45	150.163	1304 332 071	MAN	0060B	10
147.231	1304 304 636	MAN	0060A	12	147.240	1310 304 201	DAF	00180	45	150.163	1304 332 071	IVE	0100B	10
147.231	1304 304 636	IVE	0100A	12	147.240	1310 304 201	VOL	00250	45	150.163	1304 332 071	RVI	0145B	10
147.231	1304 304 636	RVI	0145A	12	147.240	1310 304 201	KAS	00280	45	150.163	1304 332 071	DAF	0190B	10
147.231	1304 304 636	KAS	0300A	12	147.241	1310 305 011	MAN	00040	55	150.163	1304 332 071	KAS	0290B	10
147.232	1304 304 587	MAN	0060A	24	147.241	1310 305 011	RVI	00140	55	150.163	1304 332 071	KAS	0300B	10
147.232	1304 304 587	IVE	0100A	24	147.241	1310 305 011	DAF	00180	55	150.164	1304 332 135	MAN	0080B	10
147.232	1304 304 587	RVI	0145A	24	147.241	1310 305 011	VOL	00250	55	150.164	1304 332 135	IVE	0120B	10
147.232	1304 304 587	KAS	0300A	24	147.241	1310 305 011	KAS	00280	55	150.164	1304 332 135	RVI	0160B	10
147.233	1304 304 637	MAN	0060A	12	147.249	1322 305 003	IVE	00083	35	150.164	1304 332 135	DAF	0230B	10
147.233	1304 304 637	IVE	0100A	12	147.249	1322 305 003	RVI	00123	35	150.165	1308 332 034	MB	0020B	11

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150.165	1308 332 034	DAF	0210B	11	154.190	1310 304 175	RVI	00130	36	154.202	1316 304 078	DAF	00180	38
150.165	1308 332 034	VOL	0260B	11	154.190	1310 304 175	RVI	00140	33	154.202	1316 304 078	VOL	00250	38
150.166	1304 332 216	MAN	0080B	10	154.190	1310 304 175	DAF	00170	36	154.202	1316 304 078	KAS	00280	38
150.166	1304 332 216	IVE	0120B	10	154.190	1310 304 175	DAF	00180	33	154.210	1304 332 089	MAN	0050B	15
150.166	1304 332 216	RVI	0160B	10	154.190	1310 304 175	VOL	00240	36	154.210	1304 332 089	MAN	0060B	15
150.166	1304 332 216	DAF	0230B	10	154.190	1310 304 175	VOL	00250	33	154.210	1304 332 089	MAN	0070B	22
150.167	1304 332 217	MAN	0080B	10	154.190	1310 304 175	KAS	00270	36	154.210	1304 332 089	MAN	0080B	15
150.167	1304 332 217	IVE	0120B	10	154.190	1310 304 175	KAS	00280	33	154.210	1304 332 089	IVE	0100B	15
150.167	1304 332 217	RVI	0160B	10	154.199	1304 304 688	MAN	0080A	18	154.210	1304 332 089	IVE	0110B	22
150.167	1304 332 217	DAF	0230B	10	154.199	1304 304 688	IVE	0120A	18	154.210	1304 332 089	IVE	0120B	15
150.213	1304 332 210	MAN	0060B	10	154.199	1304 304 688	RVI	0160A	18	154.210	1304 332 089	RVI	0145B	15
150.213	1304 332 210	IVE	0100B	10	154.199	1304 304 688	DAF	0230A	18	154.210	1304 332 089	RVI	0150B	22
150.213	1304 332 210	RVI	0145B	10	154.200	1304 304 597	MAN	0050A	20	154.210	1304 332 089	RVI	0160B	15
150.213	1304 332 210	KAS	0300B	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	00010	22	154.200	1304 304 597	IVE	0120A	29	154.324	1322 304 006	IVE	00083	26
154.135	1310 304 202	MAN	00030	22	154.200	1304 304 597	RVI	0145A	20	154.324	1322 304 006	RVI	00123	26
154.135	1310 304 202	MAN	00040	22	154.200	1304 304 597	RVI	0150A	20	154.325	1322 304 109	IVE	00083	20
154.135	1310 304 202	IVE	00090	22	154.200	1304 304 597	RVI	0160A	29	154.325	1322 304 109	RVI	00123	20
154.135	1310 304 202	RVI	00130	22	154.200	1304 304 597	DAF	0190A	20	154.360	1304 304 394	MAN	0050A	31
154.135	1310 304 202	RVI	00140	22	154.200	1304 304 597	DAF	0200A	20	154.360	1304 304 394	DAF	0190A	31
154.135	1310 304 202	DAF	00170	22	154.200	1304 304 597	DAF	0220A	20	154.360	1304 304 394	KAS	0290A	31
154.135	1310 304 202	DAF	00180	22	154.200	1304 304 597	DAF	0230A	29	154.361	6002 305 515	MAN	0050A	8
154.135	1310 304 202	VOL	00240	22	154.200	1304 304 597	KAS	0290A	20	154.361	6002 305 515	MAN	0070A	8
154.135	1310 304 202	VOL	00250	22	154.200	1304 304 597	KAS	0300A	20	154.361	6002 305 515	IVE	0110A	8
154.135	1310 304 202	KAS	00270	22	154.201	1304 333 011	MAN	0060B	15	154.361	6002 305 515	RVI	0150A	8
154.135	1310 304 202	KAS	00280	22	154.201	1304 333 011	MAN	0070B	22	154.361	6002 305 515	DAF	0190A	8
154.170	1308 304 090	MB	0020A	8	154.201	1304 333 011	MAN	0080B	15	154.361	6002 305 515	DAF	0200A	8
154.170	1308 304 090	DAF	0210A	8	154.201	1304 333 011	IVE	0100B	15	154.361	6002 305 515	DAF	0220A	8
154.170	1308 304 090	VOL	0260A	8	154.201	1304 333 011	IVE	0110B	22	154.361	6002 305 515	KAS	0290A	8
154.171	1308 304 091	MB	0020A	20	154.201	1304 333 011	IVE	0120B	15	154.362	1304 304 444	MAN	0070A	29
154.171	1308 304 091	DAF	0210A	20	154.201	1304 333 011	RVI	0145B	15	154.362	1304 304 444	IVE	0110A	29
154.171	1308 304 091	VOL	0260A	20	154.201	1304 333 011	RVI	0150B	22	154.362	1304 304 444	RVI	0150A	29
154.172	1308 332 015	MB	0020B	16	154.201	1304 333 011	RVI	0160B	15	154.362	1304 304 444	DAF	0200A	28
154.172	1308 332 015	DAF	0210B	16	154.201	1304 333 011	DAF	0200B	15	154.362	1304 304 444	DAF	0220A	29
154.172	1308 332 015	VOL	0260B	16	154.201	1304 333 011	DAF	0220B	22	154.363	1304 304 664	MB	00010	9
154.190	1310 304 175	MB	00010	36	154.201	1304 333 011	DAF	0230B	15	154.363	1304 304 664	MAN	00030	9
154.190	1310 304 175	MAN	00030	36	154.201	1304 333 011	KAS	0300B	15	154.363	1304 304 664	MAN	0060A	8
154.190	1310 304 175	MAN	00040	33	154.202	1316 304 078	MAN	00040	38	154.363	1304 304 664	IVE	00090	9
154.190	1310 304 175	IVE	00090	36	154.202	1316 304 078	RVI	00140	38	154.363	1304 304 664	IVE	0100A	8

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154.363	1304 304 664	RVI	00130	9	155.241	1323 204 011	RVI	00125	27	156.037	0732 040 385	IVE	0110B	43
154.363	1304 304 664	RVI	0145A	8	155.242	1323 303 023	IVE	00085	34	156.037	0732 040 385	IVE	0120A	11
154.363	1304 304 664	DAF	00170	9	155.242	1323 303 023	RVI	00125	34	156.037	0732 040 385	IVE	0120B	17
154.363	1304 304 664	VOL	00240	9	155.243	1317 304 026	MB	00005	7	156.037	0732 040 385	IVE	0120B	40
154.363	1304 304 664	KAS	00270	9	155.243	1317 304 026	MAN	00025	7	156.037	0732 040 385	RVI	0145B	17
154.363	1304 304 664	KAS	0300A	8	155.243	1317 304 026	IVE	00087	7	156.037	0732 040 385	RVI	0145B	35
154.364	1308 304 087	MB	0020A	28	155.243	1317 304 026	DAF	00165	7	156.037	0732 040 385	RVI	0150B	24
154.364	1308 304 087	DAF	0210A	28	155.244	1317 304 031	MB	00005	17	156.037	0732 040 385	RVI	0150B	43
154.364	1308 304 087	VOL	0260A	28	155.244	1317 304 031	MAN	00025	17	156.037	0732 040 385	RVI	0160A	11
154.371	1310 304 195	MAN	00040	9	155.244	1317 304 031	IVE	00087	17	156.037	0732 040 385	RVI	0160B	17
154.371	1310 304 195	RVI	00140	9	155.244	1317 304 031	DAF	00165	17	156.037	0732 040 385	RVI	0160B	40
154.371	1310 304 195	DAF	00180	9	155.247	1290 304 619	MB	00005	17	156.037	0732 040 385	DAF	0190B	17
154.371	1310 304 195	VOL	00250	9	155.247	1290 304 619	MAN	00025	17	156.037	0732 040 385	DAF	0200B	34
154.371	1310 304 195	KAS	00280	9	155.247	1290 304 619	IVE	00087	17	156.037	0732 040 385	DAF	0220B	24
154.373	6002 305 994	MB	00005	33	155.247	1290 304 619	DAF	00165	17	156.037	0732 040 385	DAF	0220B	43
154.373	6002 305 994	MAN	00025	33	156.036	0732 040 386	MAN	0060B	36	156.037	0732 040 385	DAF	0230A	11
154.373	6002 305 994	IVE	00087	33	156.036	0732 040 386	MAN	0070B	44	156.037	0732 040 385	DAF	0230B	17
154.373	6002 305 994	DAF	00165	33	156.036	0732 040 386	MAN	0080A	10	156.037	0732 040 385	DAF	0230B	40
154.373	6002 305 994	DAF	0220A	49	156.036	0732 040 386	MAN	0080B	41	156.037	0732 040 385	KAS	0290B	17
154.373	6002 305 994	DAF	0230A	53	156.036	0732 040 386	IVE	0100B	36	156.037	0732 040 385	KAS	0300B	17
154.410	1322 304 098	IVE	00083	10	156.036	0732 040 386	IVE	0110B	44	156.037	0732 040 385	KAS	0300B	35
154.410	1322 304 098	RVI	00123	10	156.036	0732 040 386	IVE	0120A	10	156.140	0732 040 409	MB	00005	30
154.411	1323 303 012	IVE	00085	6	156.036	0732 040 386	IVE	0120B	41	156.140	0732 040 409	MB	00010	12
154.411	1323 303 012	RVI	00125	6	156.036	0732 040 386	RVI	0145B	36	156.140	0732 040 409	MB	00010	24
154.412	1319 304 037	IVE	00085	17	156.036	0732 040 386	RVI	0150B	44	156.140	0732 040 409	MB	00010	38
154.412	1319 304 037	RVI	00125	17	156.036	0732 040 386	RVI	0160A	10	156.140	0732 040 409	MB	0020B	18
154.413	1323 304 009	IVE	00085	26	156.036	0732 040 386	RVI	0160B	41	156.140	0732 040 409	MAN	00025	30
154.413	1323 304 009	RVI	00125	26	156.036	0732 040 386	DAF	0200B	35	156.140	0732 040 409	MAN	00030	12
154.415	1317 304 126	MB	00005	10	156.036	0732 040 386	DAF	0220B	44	156.140	0732 040 409	MAN	00030	24
154.415	1317 304 126	MAN	00025	10	156.036	0732 040 386	DAF	0230A	10	156.140	0732 040 409	MAN	00030	38
154.415	1317 304 126	IVE	00087	10	156.036	0732 040 386	DAF	0230B	41	156.140	0732 040 409	MAN	00040	12
154.415	1317 304 126	DAF	00165	10	156.036	0732 040 386	KAS	0300B	36	156.140	0732 040 409	MAN	0050A	11
154.416	1317 304 125	MB	00005	18	156.037	0732 040 385	MAN	0050B	17	156.140	0732 040 409	MAN	0050A	22
154.416	1317 304 125	MAN	00025	18	156.037	0732 040 385	MAN	0060B	17	156.140	0732 040 409	MAN	0060A	11
154.416	1317 304 125	IVE	00087	18	156.037	0732 040 385	MAN	0060B	35	156.140	0732 040 409	MAN	0060A	22
154.416	1317 304 125	DAF	00165	18	156.037	0732 040 385	MAN	0070B	24	156.140	0732 040 409	MAN	0070A	11
155.238	1322 304 005	IVE	00083	6	156.037	0732 040 385	MAN	0070B	43	156.140	0732 040 409	MAN	0070A	22
155.238	1322 304 005	RVI	00123	6	156.037	0732 040 385	MAN	0080A	11	156.140	0732 040 409	MAN	0080A	31
155.239	1323 304 017	IVE	00085	7	156.037	0732 040 385	MAN	0080B	17	156.140	0732 040 409	IVE	00087	30
155.239	1323 304 017	RVI	00125	7	156.037	0732 040 385	MAN	0080B	40	156.140	0732 040 409	IVE	00090	12
155.240	1323 304 020	IVE	00085	18	156.037	0732 040 385	IVE	0100B	17	156.140	0732 040 409	IVE	00090	24
155.240	1323 304 020	RVI	00125	18	156.037	0732 040 385	IVE	0100B	35	156.140	0732 040 409	IVE	00090	38
155.241	1323 204 011	IVE	00085	27	156.037	0732 040 385	IVE	0110B	24	156.140	0732 040 409	IVE	0100A	11

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156.140	0732 040 409	IVE	0110A	11	156.176	1312 304 159	MAN	00030	39	157.182	1313 333 001	IVE	0120B	14
156.140	0732 040 409	IVE	0110A	22	156.176	1312 304 159	MAN	00040	34	157.182	1313 333 001	RVI	0145B	14
156.140	0732 040 409	IVE	0120A	31	156.176	1312 304 159	IVE	00087	32	157.182	1313 333 001	RVI	0150B	21
156.140	0732 040 409	RVI	00130	12	156.176	1312 304 159	IVE	00090	39	157.182	1313 333 001	RVI	0160B	14
156.140	0732 040 409	RVI	00130	24	156.176	1312 304 159	RVI	00130	39	157.182	1313 333 001	DAF	0200B	14
156.140	0732 040 409	RVI	00130	38	156.176	1312 304 159	RVI	00140	34	157.182	1313 333 001	DAF	0220B	21
156.140	0732 040 409	RVI	00140	12	156.176	1312 304 159	DAF	00165	32	157.182	1313 333 001	DAF	0230B	14
156.140	0732 040 409	RVI	0145A	11	156.176	1312 304 159	DAF	00170	39	157.182	1313 333 001	KAS	0300B	14
156.140	0732 040 409	RVI	0145A	22	156.176	1312 304 159	DAF	00180	34	157.186	1304 304 515	MAN	0080A	17
156.140	0732 040 409	RVI	0150A	11	156.176	1312 304 159	DAF	0220A	52	157.186	1304 304 515	IVE	0120A	17
156.140	0732 040 409	RVI	0150A	22	156.176	1312 304 159	DAF	0230A	56	157.186	1304 304 515	RVI	0160A	17
156.140	0732 040 409	RVI	0160A	31	156.176	1312 304 159	VOL	00240	39	157.186	1304 304 515	DAF	0230A	17
156.140	0732 040 409	DAF	00165	30	156.176	1312 304 159	VOL	00250	34	157.187	1304 304 653	MAN	0080A	28
156.140	0732 040 409	DAF	00170	12	156.176	1312 304 159	KAS	00270	39	157.187	1304 304 653	IVE	0120A	28
156.140	0732 040 409	DAF	00170	24	156.176	1312 304 159	KAS	00280	34	157.187	1304 304 653	RVI	0160A	28
156.140	0732 040 409	DAF	00170	38	156.178	0732 041 571	MB	0020A	11	157.187	1304 304 653	DAF	0230A	28
156.140	0732 040 409	DAF	00180	12	156.178	0732 041 571	DAF	0210A	11	157.188	1304 304 261	MAN	0080A	37
156.140	0732 040 409	DAF	0190A	11	156.178	0732 041 571	VOL	0260A	11	157.188	1304 304 261	IVE	0120A	37
156.140	0732 040 409	DAF	0190A	22	156.192	1322 304 137	IVE	00083	7	157.188	1304 304 261	RVI	0160A	37
156.140	0732 040 409	DAF	0200A	11	156.192	1322 304 137	RVI	00123	7	157.188	1304 304 261	DAF	0230A	37
156.140	0732 040 409	DAF	0200A	22	156.193	0770 060 784	IVE	00085	8	157.189	1313 304 008	MAN	00040	37
156.140	0732 040 409	DAF	0210B	18	156.193	0770 060 784	RVI	00125	8	157.189	1313 304 008	RVI	00140	37
156.140	0732 040 409	DAF	0220A	11	156.194	0770 060 816	IVE	00085	19	157.189	1313 304 008	DAF	00180	37
156.140	0732 040 409	DAF	0220A	22	156.194	0770 060 816	RVI	00125	19	157.189	1313 304 008	VOL	00250	37
156.140	0732 040 409	DAF	0220A	51	156.195	0732 042 510	MB	00005	8	157.189	1313 304 008	KAS	00280	37
156.140	0732 040 409	DAF	0230A	31	156.195	0732 042 510	MAN	00025	8	157.200	1308 304 059	MB	0020A	33
156.140	0732 040 409	DAF	0230A	55	156.195	0732 042 510	IVE	00087	8	157.200	1308 304 059	DAF	0210A	33
156.140	0732 040 409	VOL	00240	12	156.195	0732 042 510	DAF	00165	8	157.200	1308 304 059	VOL	0260A	33
156.140	0732 040 409	VOL	00240	24	157.180	1312 304 052	MAN	00040	21	157.201	1304 304 199	MAN	0080A	37
156.140	0732 040 409	VOL	00240	38	157.180	1312 304 052	RVI	00140	21	157.201	1304 304 199	IVE	0120A	37
156.140	0732 040 409	VOL	00250	12	157.180	1312 304 052	DAF	00180	21	157.201	1304 304 199	RVI	0160A	37
156.140	0732 040 409	VOL	0260B	18	157.180	1312 304 052	VOL	00250	21	157.201	1304 304 199	DAF	0230A	37
156.140	0732 040 409	KAS	00270	12	157.180	1312 304 052	KAS	00280	21	157.205	1304 332 066	MAN	0050B	14
156.140	0732 040 409	KAS	00270	24	157.181	1312 304 158	MAN	00040	32	157.205	1304 332 066	MAN	0060B	14
156.140	0732 040 409	KAS	00270	38	157.181	1312 304 158	RVI	00140	32	157.205	1304 332 066	MAN	0070B	21
156.140	0732 040 409	KAS	00280	12	157.181	1312 304 158	DAF	00180	32	157.205	1304 332 066	MAN	0080B	14
156.140	0732 040 409	KAS	0290A	11	157.181	1312 304 158	VOL	00250	32	157.205	1304 332 066	IVE	0100B	14
156.140	0732 040 409	KAS	0290A	22	157.181	1312 304 158	KAS	00280	32	157.205	1304 332 066	IVE	0110B	21
156.140	0732 040 409	KAS	0300A	11	157.182	1313 333 001	MAN	0060B	14	157.205	1304 332 066	IVE	0120B	14
156.140	0732 040 409	KAS	0300A	22	157.182	1313 333 001	MAN	0070B	21	157.205	1304 332 066	RVI	0145B	14
156.176	1312 304 159	MB	00005	32	157.182	1313 333 001	MAN	0080B	14	157.205	1304 332 066	RVI	0150B	21
156.176	1312 304 159	MB	00010	39	157.182	1313 333 001	IVE	0100B	14	157.205	1304 332 066	RVI	0160B	14

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157.205	1304 332 066	DAF	0230B	14	157.699	1304 304 448	DAF	0200A	32	157.709	1311 304 250	MAN	00030	42
157.205	1304 332 066	KAS	0290B	14	157.699	1304 304 448	DAF	0220A	33	157.709	1311 304 250	IVE	00090	42
157.205	1304 332 066	KAS	0300B	14	157.700	1304 304 576	MAN	0060A	19	157.709	1311 304 250	RVI	00130	42
157.219	1307 304 607	MB	0020A	7	157.700	1304 304 576	IVE	0100A	19	157.709	1311 304 250	DAF	00170	42
157.219	1307 304 607	DAF	0210A	7	157.700	1304 304 576	RVI	0145A	19	157.709	1311 304 250	VOL	00240	42
157.219	1307 304 607	VOL	0260A	7	157.700	1304 304 576	KAS	0300A	19	157.709	1311 304 250	KAS	00270	42
157.220	1307 304 608	MB	0020A	19	157.701	1304 304 588	MAN	0060A	29	157.710	1310 304 158	MAN	00040	8
157.220	1307 304 608	DAF	0210A	19	157.701	1304 304 588	IVE	0100A	29	157.710	1310 304 158	RVI	00140	8
157.220	1307 304 608	VOL	0260A	19	157.701	1304 304 588	RVI	0145A	29	157.710	1310 304 158	DAF	00180	8
157.221	1322 304 004	IVE	00083	25	157.701	1304 304 588	KAS	0300A	29	157.710	1310 304 158	VOL	00250	8
157.221	1322 304 004	RVI	00123	25	157.702	1304 304 651	MAN	0060A	7	157.710	1310 304 158	KAS	00280	8
157.222	1322 304 110	IVE	00083	19	157.702	1304 304 651	IVE	0100A	7	157.711	1310 304 188	MAN	00040	42
157.222	1322 304 110	RVI	00123	19	157.702	1304 304 651	RVI	0145A	7	157.711	1310 304 188	RVI	00140	42
157.694	1304 304 655	MAN	0050A	30	157.702	1304 304 651	KAS	0300A	7	157.711	1310 304 188	DAF	00180	42
157.694	1304 304 655	DAF	0190A	30	157.703	1304 304 608	MAN	0080A	37	157.711	1310 304 188	VOL	00250	42
157.694	1304 304 655	KAS	0290A	30	157.703	1304 304 608	IVE	0120A	37	157.711	1310 304 188	KAS	00280	42
157.695	1304 304 452	MAN	0050A	35	157.703	1304 304 608	RVI	0160A	37	157.712	1304 304 646	DAF	0220A	48
157.695	1304 304 452	DAF	0190A	35	157.703	1304 304 608	DAF	0230A	37	157.713	1304 304 687	MB	00005	29
157.695	1304 304 452	KAS	0290A	35	157.704	1308 332 036	MB	0020B	15	157.713	1304 304 687	MAN	00025	29
157.696	1304 304 591	MAN	0050A	19	157.704	1308 332 036	DAF	0210B	15	157.713	1304 304 687	IVE	00087	29
157.696	1304 304 591	MAN	0070A	19	157.704	1308 332 036	VOL	0260B	15	157.713	1304 304 687	DAF	00165	29
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157.696	1304 304 591	DAF	0190A	19	157.706	1311 304 226	IVE	00090	8	157.991	1290 304 573	MAN	00025	36
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157.697	1304 304 051	IVE	0110A	7	157.707	1310 304 080	MAN	00030	21	160.116	1240 304 278	MAN	0070B	23
157.697	1304 304 051	RVI	0150A	7	157.707	1310 304 080	IVE	00090	21	160.116	1240 304 278	MAN	0070B	42
157.697	1304 304 051	DAF	0190A	7	157.707	1310 304 080	RVI	00130	21	160.116	1240 304 278	MAN	0080A	9
157.697	1304 304 051	DAF	0200A	7	157.707	1310 304 080	DAF	00170	21	160.116	1240 304 278	MAN	0080B	16
157.697	1304 304 051	DAF	0220A	7	157.707	1310 304 080	VOL	00240	21	160.116	1240 304 278	MAN	0080B	39
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160.116	1240 304 278	RVI	0145B	34	160.189	1297 304 436	IVE	00090	11	160.239	0631 329 037	MAN	0080B	3
160.116	1240 304 278	RVI	0150B	23	160.189	1297 304 436	IVE	00090	23	160.239	0631 329 037	IVE	0100B	3
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160.116	1240 304 278	DAF	0190B	16	160.189	1297 304 436	IVE	0120A	30	160.239	0631 329 037	RVI	0150B	3
160.116	1240 304 278	DAF	0200B	33	160.189	1297 304 436	RVI	00130	11	160.239	0631 329 037	RVI	0150B	10
160.116	1240 304 278	DAF	0220B	23	160.189	1297 304 436	RVI	00130	23	160.239	0631 329 037	RVI	0160B	3
160.116	1240 304 278	DAF	0220B	42	160.189	1297 304 436	RVI	00130	37	160.239	0631 329 037	DAF	0200B	3
160.116	1240 304 278	DAF	0230A	9	160.189	1297 304 436	RVI	00140	11	160.239	0631 329 037	DAF	0220B	3
160.116	1240 304 278	DAF	0230B	16	160.189	1297 304 436	RVI	0145A	10	160.239	0631 329 037	DAF	0220B	10
160.116	1240 304 278	DAF	0230B	39	160.189	1297 304 436	RVI	0145A	21	160.239	0631 329 037	DAF	0230B	3
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160.116	1240 304 278	KAS	0300B	16	160.189	1297 304 436	RVI	0160A	30	160.240	0631 329 049	MB	0020B	4
160.116	1240 304 278	KAS	0300B	34	160.189	1297 304 436	DAF	00165	31	160.240	0631 329 049	DAF	0210B	4
160.143	1249 304 222	MAN	0050A	10	160.189	1297 304 436	DAF	00170	11	160.240	0631 329 049	VOL	0260B	4
160.143	1249 304 222	MAN	0070A	10	160.189	1297 304 436	DAF	00170	23	160.241	0631 329 175	MB	0020B	3
160.143	1249 304 222	MAN	0080A	20	160.189	1297 304 436	DAF	00170	37	160.241	0631 329 175	DAF	0210B	3
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160.143	1249 304 222	IVE	0120A	20	160.189	1297 304 436	DAF	0190A	21	160.242	1297 304 437	MB	0020B	17
160.143	1249 304 222	RVI	0150A	10	160.189	1297 304 436	DAF	0200A	21	160.242	1297 304 437	DAF	0210B	17
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160.143	1249 304 222	DAF	0200A	10	160.189	1297 304 436	DAF	0230A	30	160.252	0635 460 006	RVI	00123	9
160.143	1249 304 222	DAF	0220A	10	160.189	1297 304 436	DAF	0230A	54	160.253	1053 303 127	IVE	00085	9
160.143	1249 304 222	DAF	0230A	20	160.189	1297 304 436	VOL	00240	11	160.253	1053 303 127	RVI	00125	9
160.143	1249 304 222	KAS	0290A	10	160.189	1297 304 436	VOL	00240	23	160.254	0635 460 006	IVE	00085	10
160.189	1297 304 436	MB	00005	31	160.189	1297 304 436	VOL	00240	37	160.254	0635 460 006	RVI	00125	10
160.189	1297 304 436	MB	00010	11	160.189	1297 304 436	VOL	00250	11	160.255	1052 304 117	IVE	00085	20
160.189	1297 304 436	MB	00010	23	160.189	1297 304 436	KAS	00270	11	160.255	1052 304 117	RVI	00125	20
160.189	1297 304 436	MB	00010	37	160.189	1297 304 436	KAS	00270	23	167.112	1322 304 117	IVE	00083	14
160.189	1297 304 436	MAN	00025	31	160.189	1297 304 436	KAS	00270	37	167.112	1322 304 117	RVI	00123	14
160.189	1297 304 436	MAN	00030	11	160.189	1297 304 436	KAS	00280	11	167.113	1323 304 022	IVE	00085	24
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160.189	1297 304 436	MAN	00040	11	160.189	1297 304 436	KAS	0300A	21	169.396	0501 304 692	MAN	0060B	4
160.189	1297 304 436	MAN	0050A	21	160.238	0631 329 127	MAN	0050B	3	169.396	0501 304 692	MAN	0070B	4
160.189	1297 304 436	MAN	0060A	10	160.238	0631 329 127	DAF	0190B	3	169.396	0501 304 692	MAN	0070B	11
160.189	1297 304 436	MAN	0060A	21	160.238	0631 329 127	KAS	0290B	3	169.396	0501 304 692	MAN	0080B	4
160.189	1297 304 436	MAN	0070A	21	160.239	0631 329 037	MAN	0060B	3	169.396	0501 304 692	IVE	0100B	4
160.189	1297 304 436	MAN	0080A	30	160.239	0631 329 037	MAN	0070B	3	169.396	0501 304 692	IVE	0110B	4

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169.396	0501 304 692	RVI	0145B	4	171.044	0735 470 115	IVE	0100B	6	188.209	1312 304 150	KAS	0300A	30
169.396	0501 304 692	RVI	0150B	4	171.044	0735 470 115	IVE	0110B	6	188.231	1317 304 081	MB	00005	9
169.396	0501 304 692	RVI	0150B	11	171.044	0735 470 115	IVE	0110B	13	188.231	1317 304 081	MAN	00025	9
169.396	0501 304 692	RVI	0160B	4	171.044	0735 470 115	IVE	0120B	6	188.231	1322 304 023	IVE	00083	8
169.396	0501 304 692	DAF	0200B	4	171.044	0735 470 115	RVI	0145B	6	188.231	1317 304 081	IVE	00087	9
169.396	0730 150 767	DAF	0210B	5	171.044	0735 470 115	RVI	0150B	6	188.231	1322 304 023	RVI	00123	8
169.396	0501 304 692	DAF	0220B	4	171.044	0735 470 115	RVI	0150B	13	188.231	1317 304 081	DAF	00165	9
169.396	0501 304 692	DAF	0220B	11	171.044	0735 470 115	RVI	0160B	6	189.421	1296 312 053	MAN	0080B	29
169.396	0501 304 692	DAF	0230B	4	171.044	0735 470 115	DAF	0200B	6	189.421	1296 312 053	IVE	0120B	29
169.396	0730 150 767	VOL	0260B	5	171.044	0735 470 115	DAF	0220B	6	189.421	1296 312 053	RVI	0160B	29
169.396	0501 304 692	KAS	0300B	4	171.044	0735 470 115	DAF	0220B	13	189.421	1296 312 053	DAF	0230B	29
169.397	0730 103 102	MB	0020B	6	171.044	0735 470 115	DAF	0230B	6	189.658	1322 304 002	IVE	00083	30
169.397	0730 103 102	MAN	0060B	5	171.044	0735 470 115	KAS	0300B	6	189.658	1322 304 002	RVI	00123	30
169.397	0730 103 102	MAN	0070B	5	171.061	0735 470 016	MAN	0050B	6	190.298	1304 202 203	MAN	0080A	7
169.397	0730 103 102	MAN	0070B	12	171.061	0735 470 016	DAF	0190B	6	190.298	1304 202 203	IVE	0120A	7
169.397	0730 103 102	MAN	0080B	5	171.061	0735 470 016	KAS	0290B	6	190.298	1304 202 203	RVI	0160A	7
169.397	0730 103 102	IVE	0100B	5	188.096	1238 304 394	MAN	0050A	9	190.298	1304 202 203	DAF	0230A	7
169.397	0730 103 102	IVE	0110B	5	188.096	1238 304 394	MAN	0070A	9	190.311	1304 202 201	MAN	0080A	7
169.397	0730 103 102	IVE	0110B	12	188.096	1238 304 394	MAN	0080A	19	190.311	1304 202 201	IVE	0120A	7
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169.397	0730 103 102	RVI	0150B	5	188.096	1238 304 394	RVI	0150A	9	190.312	1304 202 202	MAN	0080A	7
169.397	0730 103 102	RVI	0150B	12	188.096	1238 304 394	RVI	0160A	19	190.312	1304 202 202	IVE	0120A	7
169.397	0730 103 102	RVI	0160B	5	188.096	1238 304 394	DAF	0190A	9	190.312	1304 202 202	RVI	0160A	7
169.397	0730 103 102	DAF	0200B	5	188.096	1238 304 394	DAF	0200A	9	190.312	1304 202 202	DAF	0230A	7
169.397	0730 103 102	DAF	0210B	6	188.096	1238 304 394	DAF	0220A	9	190.331	1308 202 052	MB	0020A	3
169.397	0730 103 102	DAF	0220B	5	188.096	1238 304 394	DAF	0230A	19	190.331	1308 202 052	DAF	0210A	3
169.397	0730 103 102	DAF	0220B	12	188.096	1238 304 394	KAS	0290A	9	190.350	1308 232 011	MB	0020B	1
169.397	0730 103 102	DAF	0230B	5	188.209	1312 304 150	MAN	0050A	36	190.350	1308 232 011	DAF	0210B	1
169.397	0730 103 102	VOL	0260B	6	188.209	1312 304 150	MAN	0060A	30	190.350	1308 232 011	VOL	0260B	1
169.397	0730 103 102	KAS	0300B	5	188.209	1312 304 150	MAN	0070A	34	190.386	1304 232 028	MAN	0050B	1
171.014	0635 460 010	MB	0020A	9	188.209	1312 304 150	MAN	0080A	38	190.386	1304 232 028	DAF	0190B	1
171.014	0635 460 010	IVE	00085	21	188.209	1312 304 150	IVE	0100A	30	190.386	1304 232 028	KAS	0290B	1
171.014	0635 460 010	RVI	00125	21	188.209	1312 304 150	IVE	0110A	34	190.387	1304 232 028	MAN	0070B	8
171.014	0635 460 010	DAF	0210A	9	188.209	1312 304 150	IVE	0120A	38	190.387	1304 232 091	MAN	0070B	8
171.014	0635 460 010	VOL	0260A	9	188.209	1312 304 150	RVI	0145A	30	190.387	1304 232 091	IVE	0110B	8
171.038	0735 470 155	MB	0020B	7	188.209	1312 304 150	RVI	0150A	34	190.387	1304 232 091	RVI	0150B	8
171.038	0735 470 155	DAF	0210B	7	188.209	1312 304 150	RVI	0160A	38	190.387	1304 232 091	DAF	0200B	1
171.038	0735 470 155	VOL	0260B	7	188.209	1312 304 150	DAF	0190A	36	190.387	1304 232 091	DAF	0220B	8
171.044	0735 470 115	MAN	0060B	6	188.209	1312 304 150	DAF	0200A	33	190.388	1304 232 092	MAN	0060B	1
171.044	0735 470 115	MAN	0070B	6	188.209	1312 304 150	DAF	0220A	34	190.388	1304 232 092	IVE	0100B	1

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190.388	1304 232 092	KAS	0300B	1	198.796	1304 233 006	DAF	0220B	19	198.945	1304 298 914	RVI	0145B	38
190.389	1304 232 088	MAN	0080B	1	198.796	1304 233 006	DAF	0230B	12	198.945	1304 298 914	RVI	0150A	45
190.389	1304 232 088	IVE	0120B	1	198.796	1304 233 006	KAS	0300B	12	198.945	1304 298 914	RVI	0150B	46
190.389	1304 232 088	RVI	0160B	1	198.815	1304 232 022	MAN	0080B	7	198.945	1304 298 914	RVI	0160A	49
190.389	1304 232 088	DAF	0230B	1	198.815	1304 232 022	IVE	0120B	7	198.945	1304 298 914	RVI	0160B	43
190.390	1304 232 086	MAN	0080B	1	198.815	1304 232 022	RVI	0160B	7	198.945	1304 298 914	DAF	0190A	47
190.390	1304 232 086	IVE	0120B	1	198.815	1304 232 022	DAF	0230B	7	198.945	1304 298 914	DAF	0190B	32
190.390	1304 232 086	RVI	0160B	1	198.817	1304 233 005	MAN	0050B	12	198.945	1304 298 914	DAF	0200A	44
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