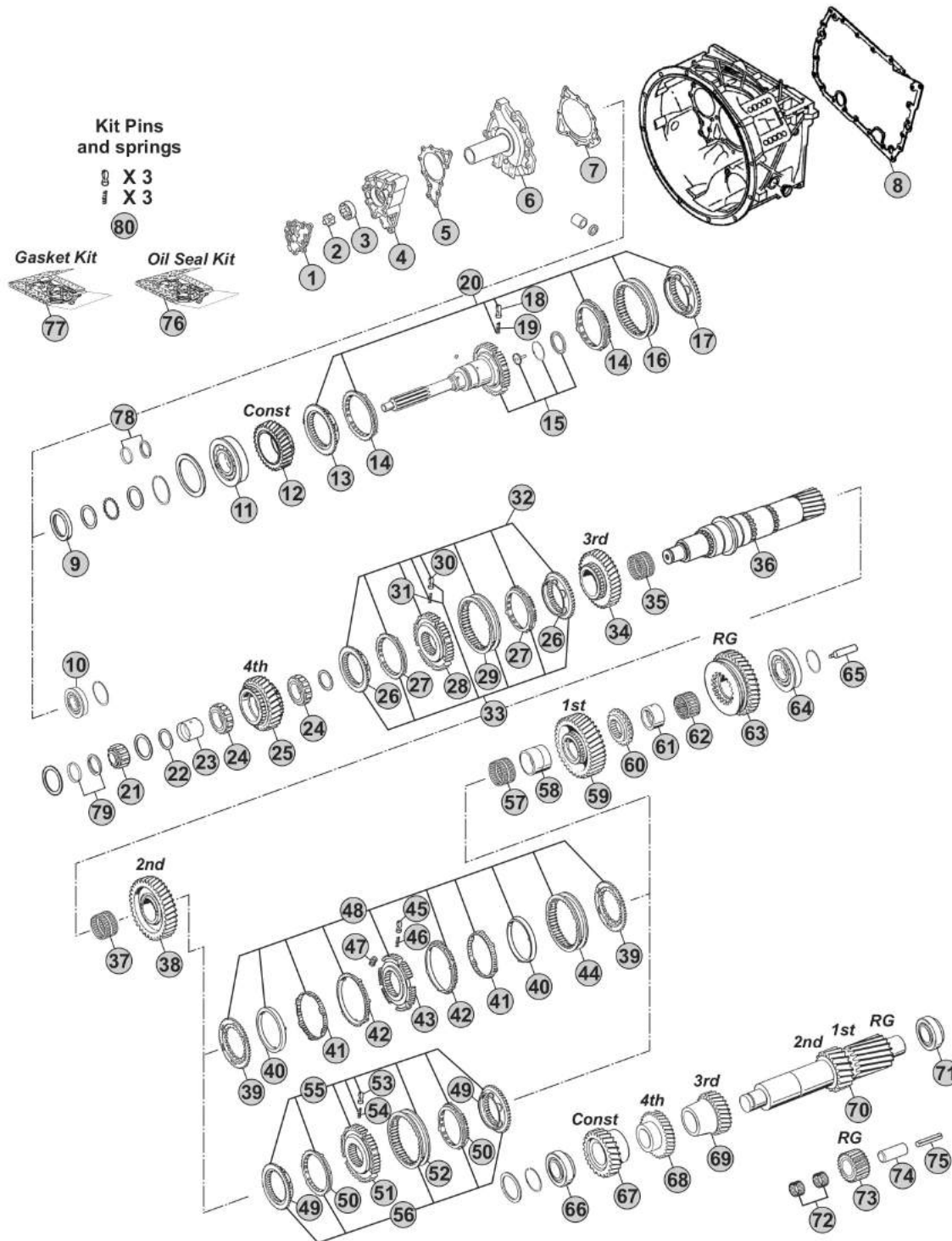


MODELS:

- ECOSPLIT III

VERSIONS:

- 16S181 (1316 xxx xxx)
(GP Helical Teeth)



Notes

- (A) R. 13,80-0,84
- (B) R. 16,41-1,00

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Fig.	CEI no.	ZF no.	Description	Q.ty	Notes	16S181			
1	189.690	1315 302 120	Oil Pump Cover	1		●			
2	189.679	1314 202 039	Oil Pump Shaft	1		●			
3	189.678	1315 303 027	Rotor	1		●			
4	189.691	1315 302 121	Oil Pump Housing	1		●			
5	139.652	1315 303 060	Gasket	1		●			
6	135.256	1315 302 075	Front Cover	1		●			
6	135.257	1315 302 136	Front Cover	1		●			
7	139.653	0501 314 587	Gasket	1		●			
8	139.854	1315 301 233	Gasket	1		●			
9	139.879	0734 310 387	Oil Seal 55x75x8	1		●			
9	139.654	0734 319 514	Oil Seal 52x72x8	1	(1)	●			
10	130.394	0635 450 098	Bearing 52x90x33	1	(1)	●			
11	130.518	0750 117 732	Bearing 85x150x30,50	1		●			
12	145.554	1316 302 067	Constant Gear 35 T	1	A	●			
12	145.483	1316 302 066	Constant Gear 30 T	1	B	●			
13	109.134	1312 304 027	Synchronizer Cone	1	(50)	●			
13	109.839	1316 304 190	Synchronizer Cone	1	(51)	●			
13	109.208	1356 304 025	Synchronizer Cone	1	(52)	●			
14	119.119	1297 304 402	Synchronizer Ring	2	(50) Old Type	●			
14	119.167	1297 304 484	Synchronizer Ring	2	(50) New Type	●			
14	119.308	1316 304 189	Synchronizer Ring	2	(51)	●			
14	119.327	1316 304 196	Synchronizer Ring	2	(52)	●			
15	190.303	1316 202 025	Input Shaft 10 T	1		●			
15	190.300	1316 202 026	Input Shaft	1		●			
15	190.417	1316 202 038	Shaft Assy	1		●			
15	190.512	1316 221 017	Input Shaft	1	NMV221 (Clutch PTO)	●			
16	154.135	1310 304 202	Sliding Sleeve	1	(50)	●			
16	154.482	1356 304 023	Sliding Sleeve	1	(51-52)	●			
17	109.133	1312 304 056	Synchronizer Cone	1	(50) W/Step	●			
17	109.134	1312 304 027	Synchronizer Cone	1	(50) W/out Step	●			
17	109.839	1316 304 190	Synchronizer Cone	1	(51) W/out Step	●			
17	109.208	1356 304 025	Synchronizer Cone	1	(52) W/out Step	●			
18	160.189	1297 304 436	Pressure Piece	3		●			
19	156.140	0732 040 409	Spring De.6,5x23,50	3		●			
20	298.319	1297 298 955	Synchro Kit	1	(50) W/Step	●			
20	298.169		Synchro Kit	1	(50) W/out Shim	●			
20	298.288	1325 298 008	Synchro Kit	1	(51) W/out Step	●			
20	196.442	1316 298 037	Synchro Kit	1	(52) W/out Step	●			
21	137.150	0750 117 232	Roller Bearing 42x40,30	1		●			
22	169.776	0750 101 158	Thrust Washer 81,5x5	1		●			
23	117.320	0750 119 124	Bush 67x77x66,10	1		●			
24	137.136	0750 115 531	Roller Cage 77x101x29	2		●			
25	146.401	1316 304 103	Gear 4th Speed 32 T	1	AB	●			

 ECOSPLIT III
16S181
Date

09/2014

Notes

(1) Only for 1316 221 017

(50) Only for standard version - Overdrive speeds

(51) Only for latest type - overdrive speeds

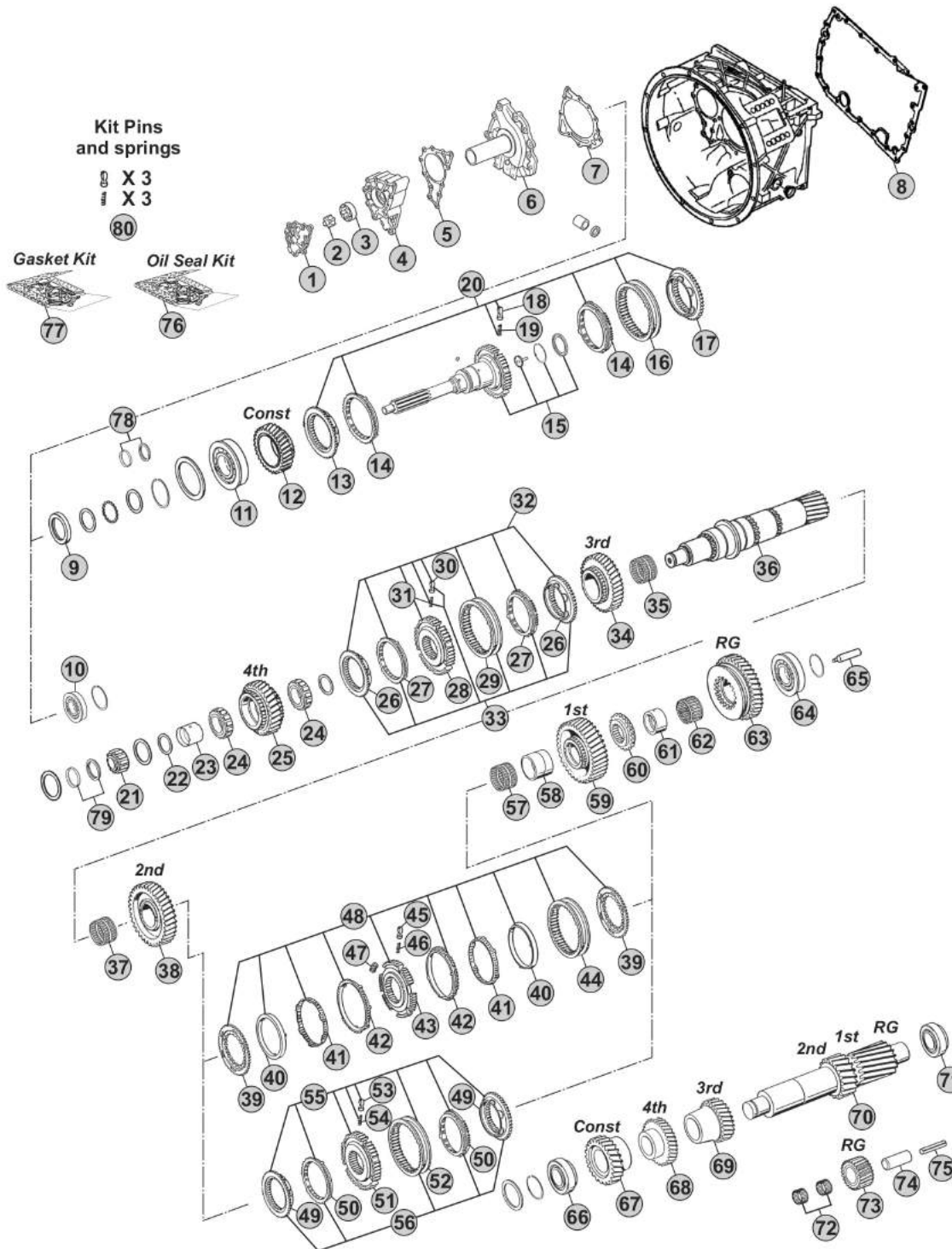
(52) Only for latest type with carbon rings - overdrive speeds

MODELS:

- ECOSPLIT III

VERSIONS:

- 16S181 (1316 xxx xxx)
(GP Helical Teeth)



Notes

(A) R. 13,80-0,84

(B) R. 16,41-1,00

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Fig.	CEI no.	ZF no.	Description	Q.ty	Notes	16S181				
26	109.134	1312 304 027	Synchronizer Cone	2	(20)	●				
26	109.385	1316 304 159	Synchronizer Cone	2	(21)	●				
26	109.839	1316 304 190	Synchronizer Cone	2	(22)	●				
26	109.208	1356 304 025	Synchronizer Cone	2	(23)	●				
27	119.119	1297 304 402	Synchronizer Ring	2	(20) Old Type	●				
27	119.167	1297 304 484	Synchronizer Ring	2	(20) New Type	●				
27	119.217	1316 304 168	Synchronizer Ring	2	(21)	●				
27	119.308	1316 304 189	Synchronizer Ring	2	(22)	●				
27	119.327	1316 304 196	Synchronizer Ring	2	(23)	●				
28	157.180	1312 304 052	Synchronizer Hub	1	(20)	●				
28	157.227	1316 304 162	Synchronizer Hub	1	(21)	●				
28	155.291	1356 304 019	Synchronizer Hub	1	(22-23)	●				
29	154.135	1310 304 202	Sliding Sleeve	1	(20)	●				
29	154.357	1316 304 167	Sliding Sleeve	1	(21)	●				
29	154.482	1356 304 023	Sliding Sleeve	1	(22-23)	●				
30	160.189	1297 304 436	Pressure Piece	3		●				
31	156.140	0732 040 409	Spring De.6,5x23,50	3		●				
32	198.812	1315 298 018	Synchro Kit	1	(20)	●				
32	298.021	1315 298 061	Synchro Kit	1	(21)	●				
33	298.291	1315 298 067	Synchro Kit	1	(21)	●				
33	298.288	1325 298 008	Synchro Kit	1	(22)	●				
33	196.442	1316 298 037	Synchro Kit	1	(23)	●				
34	145.484	1316 304 094	Gear 3rd Speed 34 T	1	AB	●				
35	137.138	0750 115 303	Needle Cage 92x100x63	1		●				
36	103.130	1316 304 132	Main Shaft	1		●				
37	137.138	0750 115 303	Needle Cage 92x100x63	1		●				
38	145.474	1316 304 002	Gear 2nd Speed 38 T	1	AB	●				
39	109.176	1312 304 106	Synchronizer Cone	2	(30)	●				
40	119.152	1268 304 424	Intermediate Synchro Ring	2	(30)	●				
41	119.153	1268 304 494	Intermediate Synchro Ring	2	(30)	●				
42	119.144	1268 304 525	Synchronizer Ring	2	(30)	●				
43	157.181	1312 304 158	Synchronizer Hub	1	(30)	●				
44	154.190	1310 304 175	Sliding Sleeve	1	(30)	●				
45	160.189	1297 304 436	Pressure Piece	3	(30)	●				
46	156.140	0732 040 409	Spring De.6,5x23,50	3	(30)	●				
47	156.176	1312 304 159	Slide	3	(30)	●				
48	198.969	1312 298 911	Synchro Kit	1	(30)	●				
49	109.132	1313 304 009	Synchronizer Cone	2	(31)	●				
49	109.386	1316 304 156	Synchronizer Cone	2	(32-33)	●				
49	109.824	1356 304 026	Synchronizer Cone	2	(34)	●				
50	119.122	1297 304 401	Synchronizer Ring	2	(31) Old Type	●				
50	119.166	1297 304 485	Synchronizer Ring	2	(31) New Type	●				
50	119.218	1316 304 170	Synchronizer Ring	2	(32-33)	●				

Date

09/2014

Notes

(20) Only for 3rd/4th Speed - First version - Do not mix
 (21) Only for 3rd/4th Speed - Second version - Do not mix
 (22) Only for 3rd/4th Speed - Latest type - Do not mix
 (23) Only for 3rd/4th Speed - Latest type - Do not mix - Carbon version
 (30) Only for 1st/2nd speed - First version (triple cone) - Do not mix

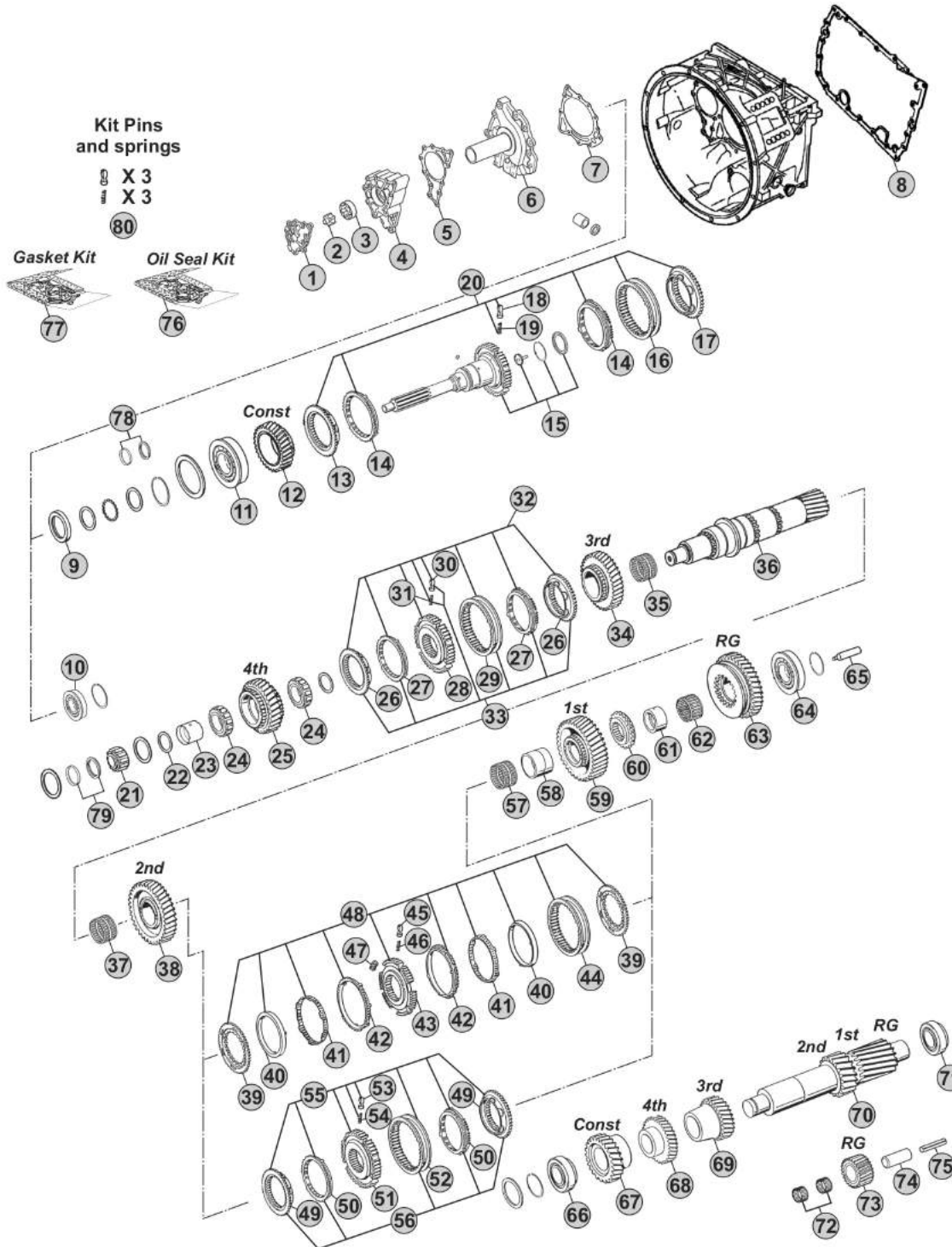
(31) Only for 1st/2nd speed - First version (single cone) - Do not mix
 (32) Only for 1st/2nd speed - Second version (Single cone) - Do not mix
 (33) Only for 1st/2nd speed - Latest type (single cone) - Do not mix
 (34) Only for 1st/2nd speed - Latest type (single cone) - Do not mix - Carbon version

MODELS:

- ECOSPLIT III

VERSIONS:

- 16S181 (1316 xxx xxx)
(GP Helical Teeth)



Notes

- (A) R. 13,80-0,84
- (B) R. 16,41-1,00

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Fig.	CEI no.	ZF no.	Description	Q.ty	Notes	16S181			
50	119.302	1316 304 173	Synchronizer Ring	2	(34)	●			
51	157.189	1313 304 008	Synchronizer Hub	1	(31)	●			
51	157.228	1316 304 163	Synchronizer Hub	1	(32)	●			
51	155.290	1356 304 022	Synchronizer Hub	1	(33-34)	●			
52	154.202	1316 304 078	Sliding Sleeve	1	(31)	●			
52	154.358	1316 304 169	Sliding Sleeve	1	(32)	●			
52	154.456	1356 304 024	Sliding Sleeve	1	(33-34)	●			
53	160.189	1297 304 436	Pressure Piece	3	(31-32-33-34)	●			
54	156.140	0732 040 409	Spring De.6,5x23,50	3	(31-32-33-34)	●			
55	198.972	1313 298 909	Synchro Kit	1	(31)	●			
55	298.020	1315 298 060	Synchro Kit	1	(32)	●			
56	298.286	1315 298 066	Synchro Kit	1	(32)	●			
56	298.287	1325 298 007	Synchro Kit	1	(33)	●			
56	196.440	1316 298 036	Synchro Kit	1	(34)	●			
57	137.151	0750 115 327	Needle Cage 96x104x72	1		●			
58	117.310	1312 304 084	Bush 85x96x72	1		●			
59	145.475	1316 304 010	Gear 1st Speed 47 T	1	AB	●			
60	109.163	1312 304 124	Engaging Ring	1		●			
61	117.311	1316 304 133	Bush 80x90x50	1		●			
62	137.140	0750 115 326	Roller Cage 90x98x50	1		●			
63	147.128	1316 304 012	Reverse Gear 44 T	1	AB	●			
64	130.304	0750 117 678	Bearing 80x140x36,50	1		●			
65	188.209	1312 304 150	Oil Tube	1		●			
66	130.308	0750 117 009	Bearing 49,2x103,1x43,6	1		●			
67	146.485	1316 303 070	Constant Gear 32 T	1	(80) A	●			
67	146.780	1316 303 071	Constant Gear 32 D	1	(81) A	●			
67	146.398	1316 303 055	Constant Gear 39 T	1	(80) B	●			
67	146.486	1316 303 030	Costant Gear 39 T	1	(81) B	●			
68	146.399	1316 303 063	Gear 4th Speed 35 T	1	(80) AB	●			
68	146.426	1316 303 065	Gear 4th Speed 35 T	1	(81) AB	●			
69	146.400	1316 303 058	Gear 3rd Speed 26 T	1	AB	●			
70	105.100	1316 303 033	Countershaft 17/20 T	1	AB	●			
71	130.308	0750 117 009	Bearing 49,2x103,1x43,6	1		●			
72	137.149	0750 115 369	Needle Cage 45x57x25	2		●			
73	147.127	1316 305 001	Reverse Gear 22 T	1	AB	●			
74	190.302	1315 305 009	Reverse Shaft	1		●			
75	160.301	0631 329 296	Pin	1	AB	●			
76	198.838	1315 298 002	Oil Seal Kit	1		●			
77	198.797	1315 298 001	Gasket Kit	1	Paper	●			
77	298.160	R 1315 298 001	Gasket kit (Reinforced)	1	Steel	●			
78	298.879	1499 298 038	Washers Kit	1		●			
78	298.388	1499 298 036	Shims Kit Th.4,10mm	1		●			
78	298.389	1499 298 034	Shims Kit Th. 4,00mm	1		●			

 ECOSPLIT III
16S181
Date

09/2014

Notes

(32) Only for 1st/2nd speed - Second version (Single cone) - Do not mix

(33) Only for 1st/2nd speed - Latest type (single cone) - Do not mix

(34) Only for 1st/2nd speed - Latest type (single cone) - Do not mix - Carbon version

(31) Only for 1st/2nd speed - First version (single cone) - Do not mix

(80) Only for the 1st version with Constant gear flat plane

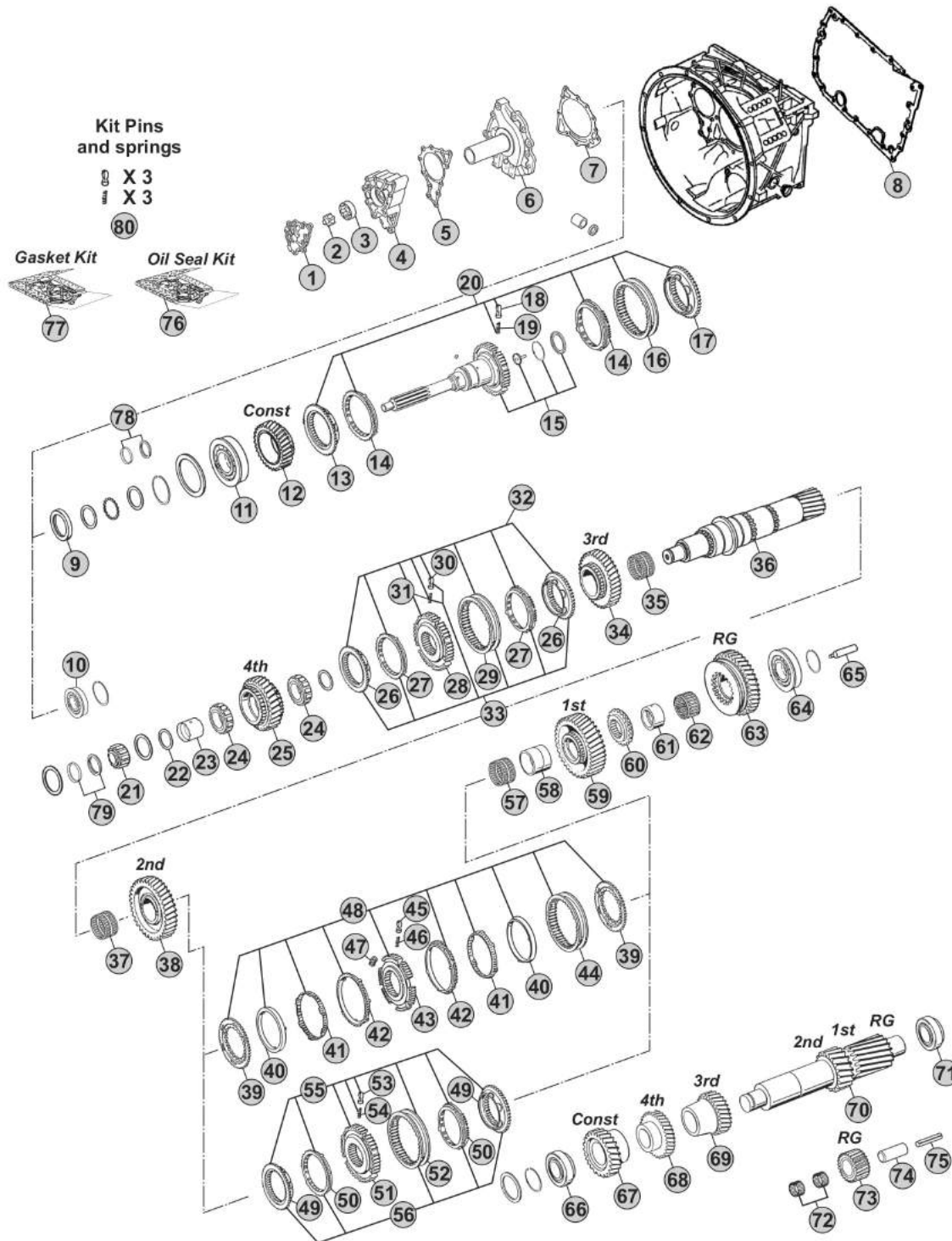
(81) Only for the 1st version with constant gear with lightened diameter

MODELS:

- ECOSPLIT III

VERSIONS:

- 16S181 (1316 xxx xxx)
(GP Helical Teeth)



Notes

- (A) R. 13,80-0,84
- (B) R. 16,41-1,00

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Fig.	CEI no.	ZF no.	Description	Q.ty	Notes					
78	298.390	1499 298 032	Shims Kit Th. 3,90mm	1						
78	298.391	1499 298 030	Shims Kit Th. 3,80mm	1						
79	298.392	1499 298 027	Shims Kit Th=5,00mm	1						
79	298.393	1499 298 026	Shims Kit Th=4,90mm	1						
79	298.394	1499 298 025	Shims Kit Th=4,80mm	1						
79	298.395	1499 298 024	Shims Kit Th=4,70mm	1						
79	298.396	1499 298 023	Shims Kit Th=4,60mm	1						
80	198.843		Spring Slide kit	1						

16S181



ECOSPLIT III
16S181

Date _____ **Notes** _____

09/2014

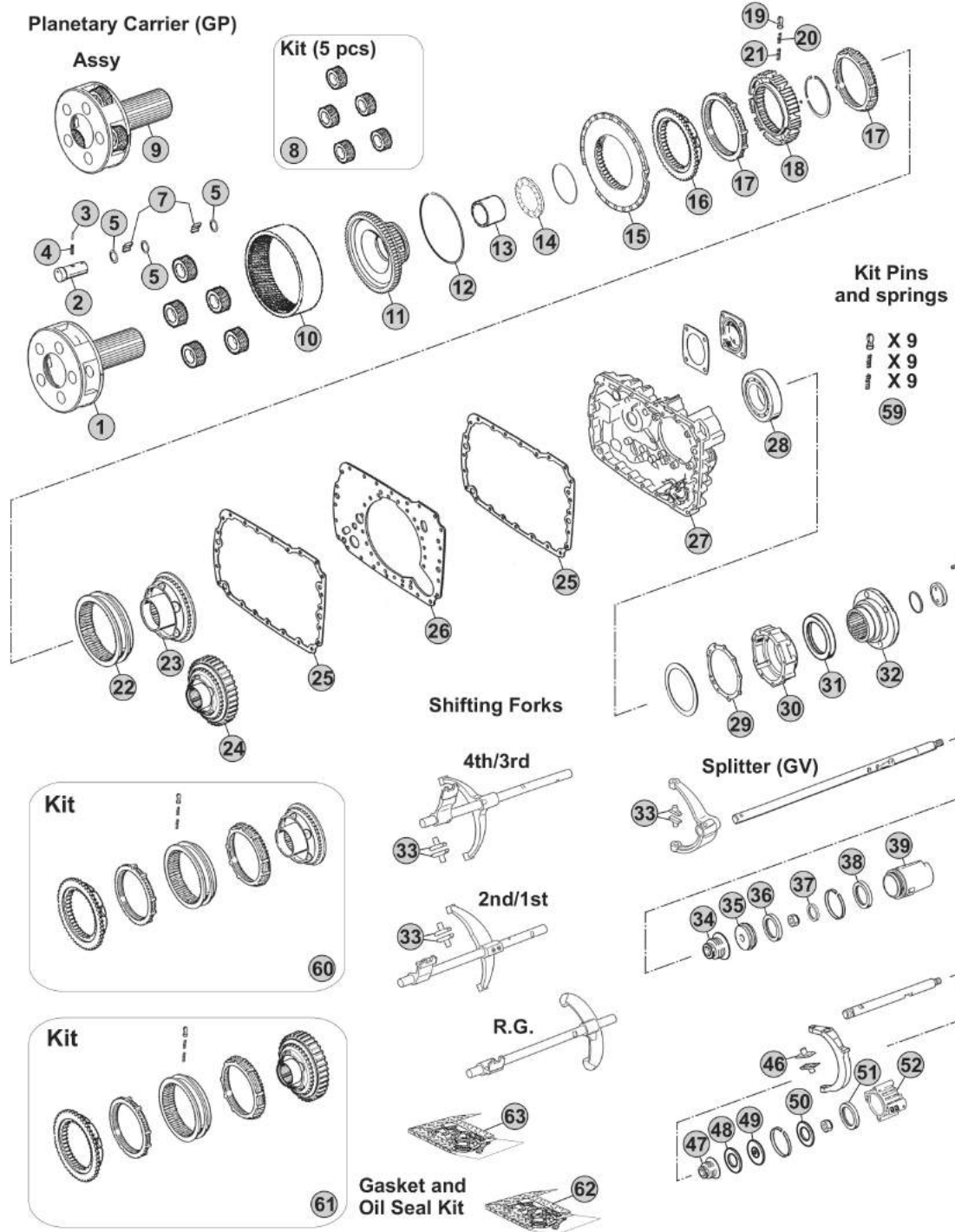


MODELS:

- ECOSPLIT III

VERSIONS:

- 16S181 (1316 xxx xxx)
(GP Helical Teeth)



Notes

- (A) R. 13,80-0,84
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Fig.	CEI no.	ZF no.	Description	Q.ty	Notes	16S181			
1	190.325	1316 232 019	Planetary Carrier	1	(70)	●			
1	190.394	1315 232 017	Planetary Carrier	1	(2-70)	●			
1	190.505	1316 232 039	Planetary Carrier	1	(71)	●			
1	190.504	1315 232 027	Planetary Carrier	1	(2-71)	●			
2	107.204	1316 332 096	Planet Shaft	5	(70)	●			
2	107.159	1315 332 053	Planet Shaft	5	(2-70)	●			
2	107.256	1316 332 140	Planerary pin	5	(71)	●			
2	107.255	1315 332 091	Planerary pin	5	(2-71)	●			
3	160.195	0631 329 167	Lock Pin 3x26	5	(70)	●			
3	160.288	0631 329 261	Pin	5	(71)	●			
4	160.194	0631 329 051	Lock Pin 5x26	5	(70)	●			
4	160.287	0631 329 147	Pin	5	(71)	●			
5	269.009	0730 109 323	Spacer Ring	10		●			
5	169.744	0730 107 168	Spacer Ring	10	(2)	●			
6	269.010	0730 109 309	Spacer Ring	5		●			
6	169.744	0730 107 168	Spacer Ring	5	(2)	●			
7	171.062	0750 119 116	Needle 10x16,80 (140 pcs)	140		●			
8	298.024	1316 232 011	Planetary Gear Set	1		●			
8	198.798	1315 232 010	Planetary gear set (5 pcs)	1	(2)	●			
9	298.861		Planetary Carrier Assy	1	(71)	●			
9	298.862		Planetary Carrier Assy	1	(2-71)	●			
10	123.211	1315 332 041	Spur ring gear 82 T	1		●			
11	150.136	1316 332 130	Carrier Hub 82 T	1		●			
12	111.426	0730 513 583	Locking Wire	1		●			
13	119.256	1316 333 014	Intermediate Ring	1		●			
14	130.312	0735 298 169	Bearing 104,50x128,40x10	1		●			
15	135.122	1296 333 046	Saddle Plate	1		●			
16	109.174	1296 333 050	Synchronizer Cone	1		●			
17	119.085	1296 333 022	Synchronizer Ring	2	Old Type	●			
17	119.172	1296 333 045	Synchronizer Ring	2	New Type	●			
18	157.182	1313 333 001	Synchronizer Hub	1		●			
19	160.116	1240 304 278	Pressure Piece	9		●			
20	156.036	0732 040 386	Inner Spring De.3x34	9		●			
21	156.037	0732 040 385	Outer Spring De.6x34	9		●			
22	154.098	1296 333 023	Sliding Sleeve	1	(60)	●			
22	154.434	1316 333 034	Sliding Sleeve	1	(61)	●			
23	109.175	1316 233 015	Synchronizer Cone (44 Spl.)	1	(60)	●			
23	109.774	1316 233 029	Synchronizer Cone	1	(61)	●			
24	196.270	1316 233 014	Synchronizer Cone 59 T (44 Spl)	1	(60)	●			
24	109.773	1316 233 028	Synchronizer Cone	1	(61)	●			
25	139.643	1316 301 042	Gasket	2	W/out Retarder	●			
25	139.547	1316 301 053	Intarder Gasket	2	With Retarder	●			
26	135.148	1315 301 118	Saddle plate	1		●			

 ECOSPLIT III
16S181
Date

09/2014

Notes

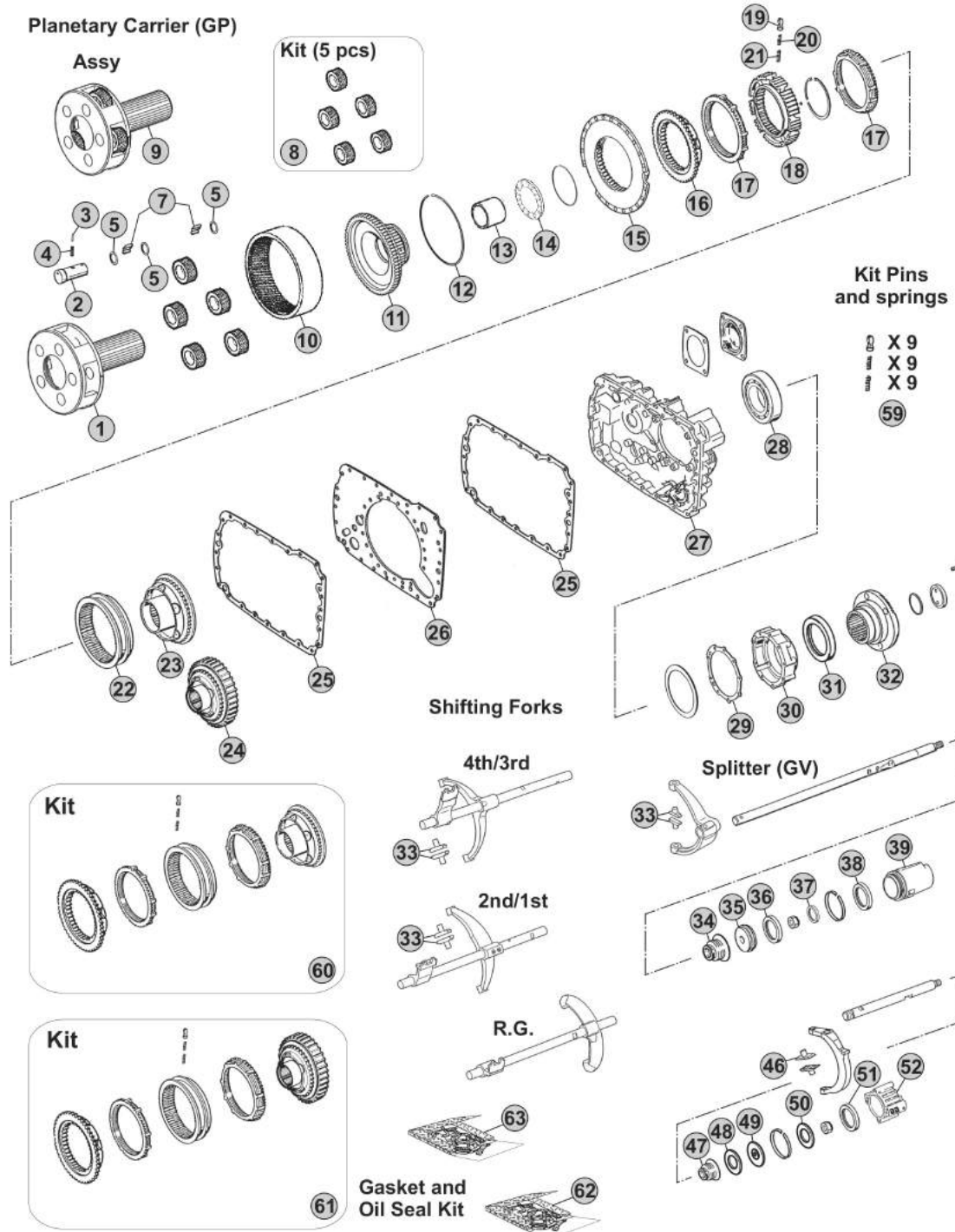
- (70) Standard version - Changing Planetary carrier
 (2) Only for special version that uses the GP of 16S151
 (71) Latest type -Changing Planetary carrier
 (60) Only for old version
 (61) Only for new version

MODELS:

- ECOSPLIT III

VERSIONS:

- 16S181 (1316 xxx xxx)
(GP Helical Teeth)



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Notes

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- (B) R. 16,41-1,00

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Fig.	CEI no.	ZF no.	Description	Q.ty	Notes	16S181				
27	175.242	1315 301 223	Housing	1	W/out Retarder	●				
27	175.422	6085 201 079	Housing	1	With Retarder	●				
28	130.245	0750 116 394	Bearing 90x160x30	1		●				
29	139.644	1315 331 001	Gasket	1		●				
30	175.421	1315 231 004	Cover	1		●				
31	139.878	0750 111 341	Oil Seal 105x130x12	1		●				
32	197.254	1297 333 110	Output Flange D.180 mm	1		●				
33	141.163	1297 306 120	Slide	2	Old Type	●				
33	141.168	1316 306 015	Sliding pad	2	New Type	●				
34	139.655	0750 112 253	Cap Collar D.25x40x15	1		●				
35	189.718	1315 312 020	Piston	1		●				
36	139.656	0750 112 177	Ring	1		●				
37	139.657	0634 313 320	O-ring	1		●				
38	139.658	0634 313 018	O-Ring	1		●				
39	132.097	1316 312 015	Cylinder	1		●				
46	141.085	1296 334 004	Bronze Slide	2		●				
47	139.655	0750 112 253	Cap Collar D.25x40x15	1		●				
48	139.659	0734 307 294	Oil Seal	1		●				
49	189.719	1315 334 034	Piston	1		●				
50	139.659	0734 307 294	Oil Seal	1		●				
51	139.660	0501 317 536	O-Ring	1		●				
52	132.093	1315 334 069	Cylinder	1		●				
59	198.842	1295 298 933	Spring Slide kit	1		●				
60	198.975	1315 298 034	Kit Reduction	1	(60)	●				
61	298.318	1315 298 043	Synchronizer Kit	1	(60)	●				
62	198.838	1315 298 002	Oil Seal Kit	1		●				
63	198.797	1315 298 001	Gasket Kit	1	Paper	●				
63	298.160	R 1315 298 001	Gasket kit (Reinforced)	1	Steel	●				

ECOSPLIT III
16S181

Date 09/2014 Notes (60) Only for old version

