

1984 GRUMMAN OLSON KUBVAN

ILLUSTRATED PARTS MANUAL

Engine mounts

Fuel tank

Exhaust

Transmissions manual 5 speed

Transmissions Automatic

Drive shafts

Differentials

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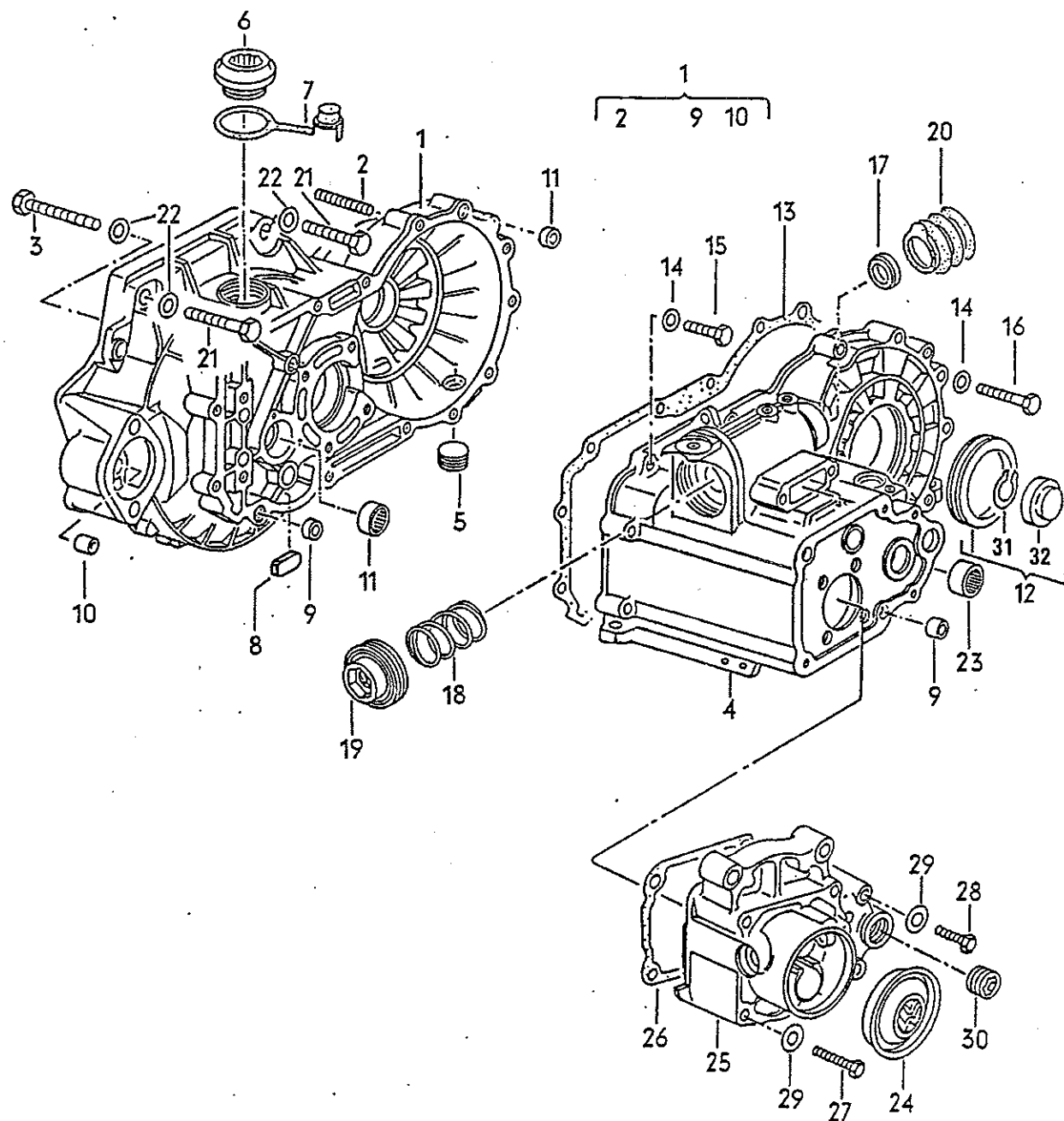


ILLUSTRATION 54

TRANSMISSION CASE FOR 5 SPEED MANUAL TRANSMISSION

KEY	PART NO.	DESCRIPTION	QUANTITY
1	V020 301 071 C	GEAR CARRIER	1
2	VN 014 503 4	STUD AM 10X42	3
3	VN 040 338 1	BOLT, HEX. HD. M 12X58	1
4	V020 301 103 H	TRANSMISSION CASE	1
5	V111 301 127 E	PLUG M 24X1.5	1
6	V020 301 129 B	PLUG	1
7	V020 301 132	CAP	1
8	V084 301 143 A	MAGNET	1
9	V020 301 153	FITTED SLEEVE	4
10	V113 301 155	BUSHING	1
11	V002 311 125 A	NEEDLE BEARING FOR DRIVESHAFT	1
12	V020 498 085	SEAL KIT	1
13	V020 301 191 B	GASKET	1
14	VN 011 558 6	WASHER 8.4	14
15	VN 010 247 8	BOLT, HEX. HD. M 8X 35	2
16	VN 040 262 2	BOLT, HEX. HD. M 8X50	12
17	V020 301 227	SEALING WASHER	1
18	V020 301 228 C	PRESSURE SPRING	1
19	V020 301 232 C	COVER	1
20	V020 301 261	BOOT FOR SHIFT ROD	1
21	VN 010 491 2	BOLT, HEX. HD. M 12X50	2
22	VN 011 531 7	WASHER A 13	3
23	V020 311 373 D	NEEDLE BEARING	1
24	V020 141 073 A	END PLATE	1
25	V020 301 211	HOUSING	1
26	V020 301 215	GASKET	1
27	VN 010 385 7	BOLT, HEX. HD. M 8X85	4
28	VN 010 377 1	BOLT, HEX. HD. M 8X62	2
29	VN 011 558 6	WASHER 8.4	6
30	V111 301 127 E	PLUG M 24X1.5	1
31	V020 409 297	LOCK RING	2
32	V113 517 289 A	CAP	2

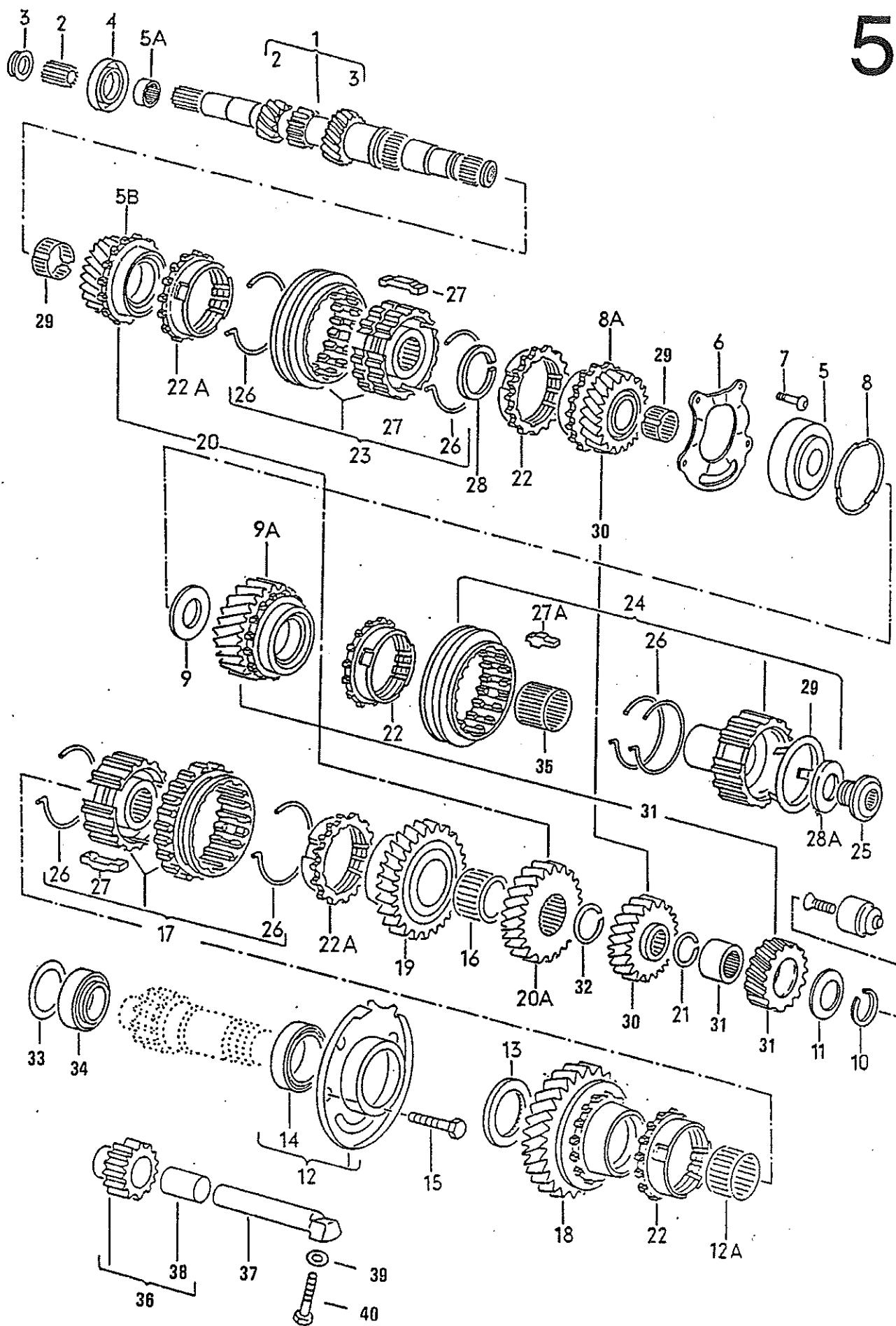


ILLUSTRATION 56

GEARS AND SHAFTS FOR 5 SPEED MANUAL TRANSMISSION

KEY	PART NO.	DESCRIPTION	QUANTITY
1	V020 311 101 L	DRIVE SHAFT, ALSO USE 020 311 1235 BALL BEARING	1
2	V020 311 107 B	BUSHING	1
3	V020 311 108	SEALING WASHER	1
4	V020 311 113	SEAL	1
5	V020 311 123 J	BALL BEARING	1
5A	V002 311 125A	NEEDLE BEARING FOR DRIVE SHAFT	1
5B	V020 311 131 B	3RD GEAR CLUTCH HUB	1
6	V020 311 136 A	RETAINING PLATE	1
7	VN 900 751 01	SCREW, CSK. RAISED HD. M 7X24	4
8	V020 311 140	SHIM 0.30	X
(8)	V020 311 140 A	SHIM 0.60	X
8A	V020 311 149 H	4TH GEAR CLUTCH HUB	1
9	V020 311 155	THRUST WASHER	1
9A	V020 311 159 F	5TH GEAR CLUTCH HUB	1
10	VN 901 060 01	LOCK RING	1
11	V020 311 191 A	CONCAVE WASHER	1
12	V020 311 206	SUPPORT WITH TAPER ROLLER BEARING	1
12A	V020 311 213	NEEDLE BEARING	1
13	V020 311 221 A	THRUST WASHER	1
14	V411 501 283 E	TAPER ROLLER BEARING	1
15	VN 900 234 01	BOLT, HEX. HD. M 8X45	4
16	V020 311 228	NEEDLE BEARING	1
17	V020 311 239 B	CLUTCH GEAR, 1ST & 2ND GEAR	1
18	V014 311 257	GEAR—1ST GEAR	1
19	V020 311 261 A	GEAR—2ND GEAR	1
20	V020 311 273 B	GEAR SET-3RD GEAR	1
20A	V020 311 285 A	3RD GEAR	1
21	V113 311 287	LOCK RING 20X1.75	1
22	V014 311 295 D	SYNCHRONIZER GEARS 1,4,5.	3
22A	V014 311 295 B	SYNCHRONIZER GEARS 2 & 3.	2
23	V020 311 301 C	CLUTCH GEAR 3RD AND 4TH GEAR	1
24	V020 311 303 F	CLUTCH GEAR	1
25	V020 311 308 C	SCREW FOR FASTENING 5TH GEAR	1
26	V014 311 311 C	SPRING	6
27	V014 311 313	LOCKING KEY 5TH GEAR	9
28	V091 311 321	LOCK RING	1
28A	V020 311 324 A	CONCAVE WASHER FOR SCREW 020 311 308 C	1
29	V020 311 325 C	NEEDLE BEARING	2
29A	V020 311 331 B	STOP RING BLOCKING 5TH GEAR	1
30	V020 311 339 D	GEAR SET—4TH GEAR 30:33	1
30A	V020 311 351 K	4TH GEAR 27:38	1
31	V020 311 359 A	GEAR SET—5TH GEAR 27:38	1
31A	V020 311 373 D	NEEDLE BEARING	1
31B	V020 311 361 F	5TH GEAR	1
32	V020 311 381	LOCK RING 2.5	X
(32)	V020 311 381 A	LOCK RING 2.6	X
(32)	V020 311 381 B	LOCK RING 2.7	X

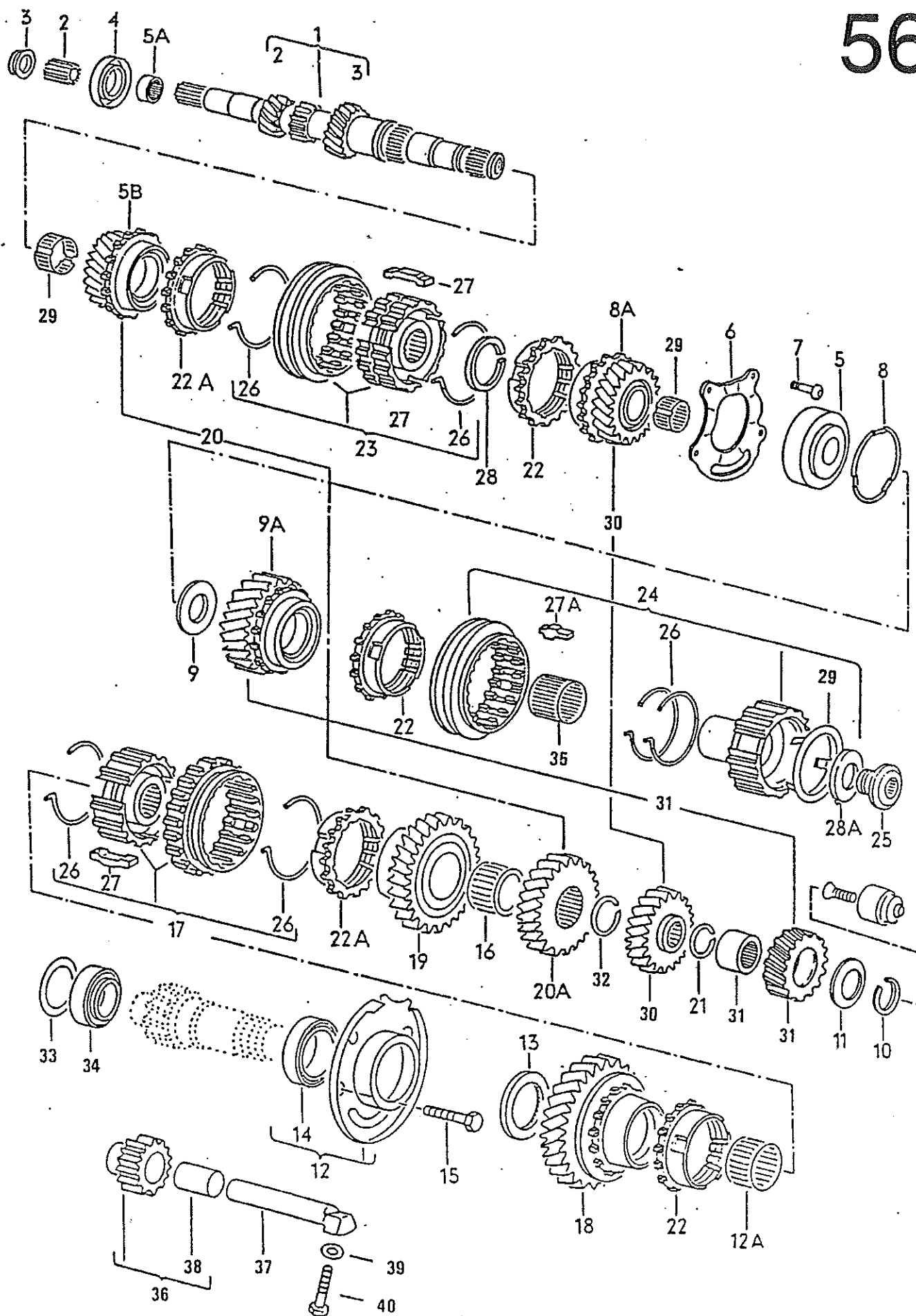


ILLUSTRATION 56 (cont'd)

GEARS AND SHAFTS FOR 5 SPEED MANUAL TRANSMISSION

KEY	PART NO.	DESCRIPTION	QUANTITY
(32)	V020 311 381 C	LOCK RING 2.8	X
(32)	V020 311 381 D	LOCK RING 2.9	X
(32)	V020 311 381 E	LOCK RING 3.0	X
33	V020 311 391	SHIM 0.75	X
(33)	V020 311 391 A	SHIM 0.80	X
(33)	V020 311 391 B	SHIM 0.85	X
(33)	V020 311 391 C	SHIM 0.90	X
(33)	V020 311 391 D	SHIM 0.95	X
(33)	V020 311 391 E	SHIM 1.00	X
(33)	V020 311 391 F	SHIM 1.05	X
(33)	V020 311 391 G	SHIM 1.10	X
(33)	V020 311 391 H	SHIM 1.15	X
(33)	V020 311 391 J	SHIM 1.20	X
(33)	V020 311 391 K	SHIM 1.25	X
(33)	V020 311 391 L	SHIM 1.30	X
(33)	V020 311 391 M	SHIM 1.35	X
(33)	V020 311 391 N	SHIM 1.40	X
(33)	V020 311 391 P	SHIM 0.65	X
(33)	V020 311 391 Q	SHIM 0.70	X
34	V311 405 625 B	TAPER ROLLER BEARING	1
35	V020 311 431 C	NEEDLE BEARING	1
36	V020 311 501 A	REVERSE GEAR	1
37	V020 311 515	REVERSE GEAR SHAFT	1
38	V014 311 533	BUSHING FOR REVERSE GEAR	1
39	VN 043 804 3	SEALING WASHER A 8X13	1
40	VN 010 247 8	BOLT HEX. HD. M 8X35	1

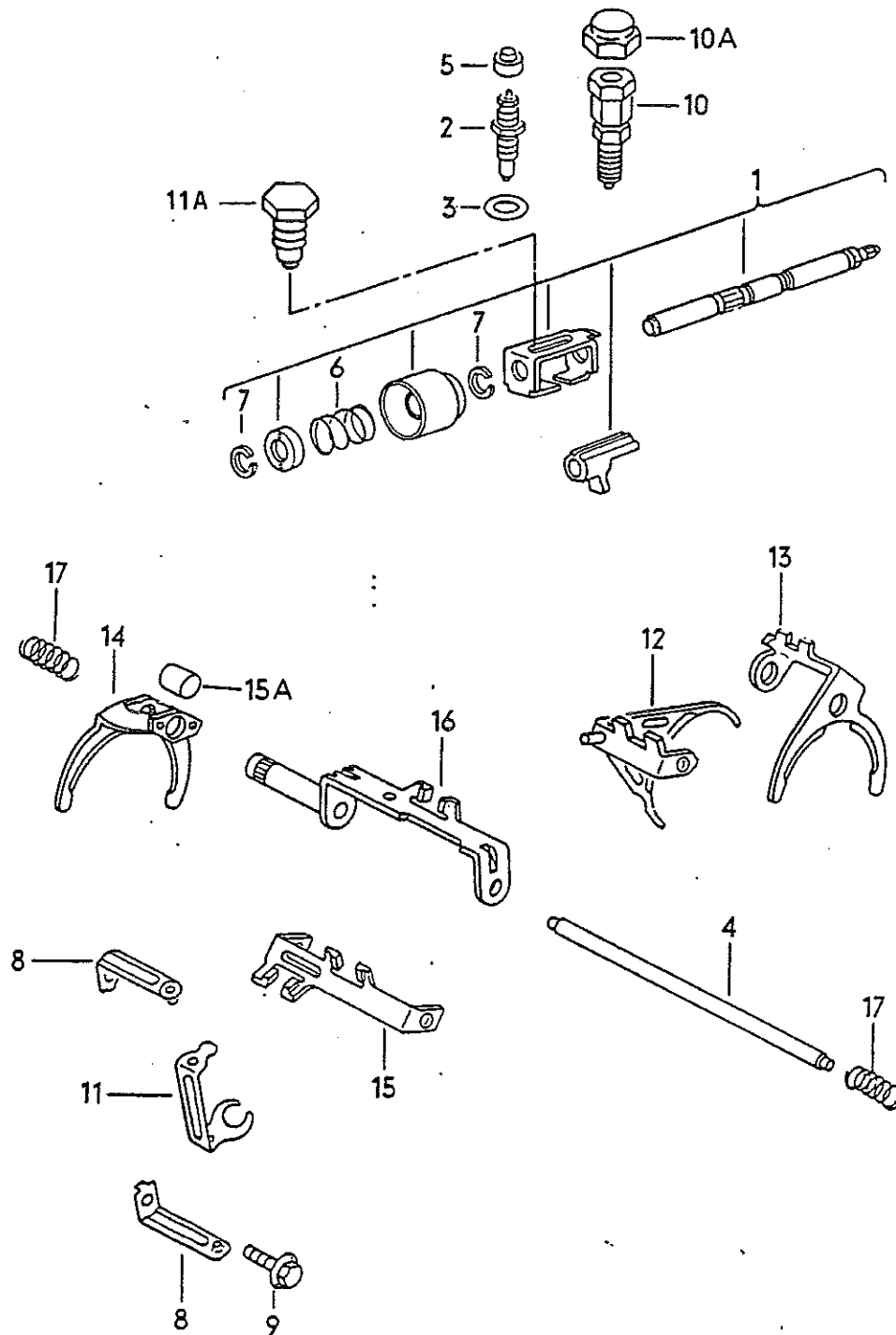


ILLUSTRATION 58

SHIFT ROD, SELECTOR SHAFT, SELECTOR FORKS FOR 5 SPEED MANUAL TRANSMISSION

KEY	PART NO.	DESCRIPTION	QUANTITY
1	V020 301 235 J	SHIFT ROD	1
2	V020 301 241 B	FITTING	1
3	V020 301 244	SEAL	2
4	V020 301 247 B	SELECTOR SHAFT	1
5	V020 301 254 A	CAP	1
6	V020 301 259 A	PRESSURE SPRING FOR SHIFT ROD	1
7	VN 012 415 1	LOCK RING 15X1	2
8	V020 301 429	SUPPORT	2
9	VN 900 712 01	BOLT, HEX. HD. M 7X15	2
10	V020 301 631 B	LOCKING SCREW	1
10A	V020 301 645 A	CAP	1
11	V020 311 447 C	REVERSE LEVER	1
11A	V020 310 647	BOLT	1
12	V020 311 551 D	SELECTOR FORK FOR 1ST AND 2ND GEAR	1
13	V020 311 561 D	SELECTOR FORK FOR 3RD AND 4TH GEAR	1
14	V020 311 562 B	SELECTOR FORK FOR 5TH GEAR	1
(14)	V020 311 562 C	SELECTOR FORK FOR 5TH GEAR	1
—	V020 311 568 C	SLEEVE—ALSO USE 020 311 585	1
15	V020 311 571 E	REVERSE LEVER	1
15A	V020 311 579 B	SPACER SLEEVE	1
(15A)	V020 311 579	LOCKING SEGMENT	1
16	V020 311 584	CONNECTING PIECE FOR 5TH GEAR	1
(16)	V020 311 585	CONNECTING PIECE FOR 5TH GEAR—ALSO USE 020 311 568 C	1
17	V020 311 597	PRESSURE SPRING	2

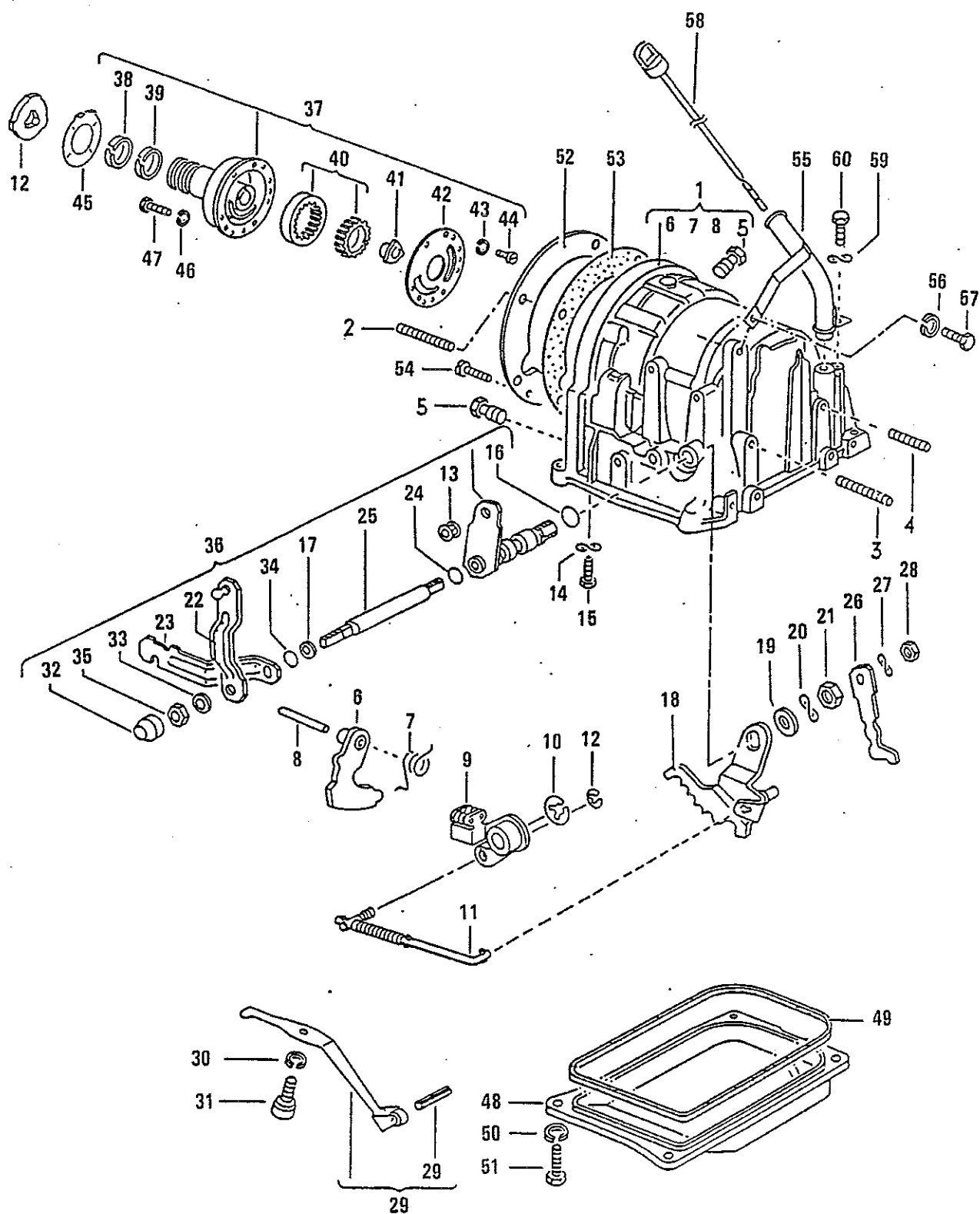


ILLUSTRATION 59

TRANSMISSION CASE FOR AUTOMATIC TRANSMISSION

KEY	PART NO.	DESCRIPTION	QUANTITY
1	V010 321 101 G	TRANSMISSION CASE	1
2	VN 900 028 02	STUD AM 8AX70	4
3	VN 014 692 1	STUD AM 10AX52	1
4	VN 014 517 1	STUD AM 10AX33	1
5	V033 507 133 A	PLUG M 10X1	4
6	V010 321 117 B	LEVER—PARKING LOCK	1
7	V010 321 121 A	RETURN SPRING	1
8	V010 321 123	PIN FOR LEVER	1
9	V010 321 135	ENGAGING LEVER—PARKING LOCK	1
10	VN 012 438 1	CIRCLIP	1
11	V010 321 153 B	OPERATING ROD	1
12	VN 012 436 2	CIRCLIP 6	1
12A	V010 321 157 A	NEEDLE BEARING	1
13	V003 321 177	BUSH—CABLE LEVER	1
14	VN 012 226 5	SPRING WASHER B 6	1
15	VN 010 224 1	BOLT, HEX. HD. M 6X13.5	1
16	VN 028 201 2	SEALING WASHER 14X2.5	X
17	V010 321 180 B	THRUST RING	1
18	V010 321 193 C	LOCKING SEGMENT	1
19	VN 900 477 01	WASHER	1
20	VN 012 238 5	SPRING WASHER B 16	1
21	VN 011 164 2	NUT, HEX. M 16X1.5	1
22	V089 321 201 C	LEVER FOR CABLE	1
23	V010 321 205 E	LEVER	1
24	V010 321 182	SEALING WASHER	1
25	V010 321 209 C	SHAFT	1
26	V010 321 215 E	LEVER	1
27	VN 012 228 3	SPRING WASHER B 8	1
28	VN 011 008 8	NUT, HEX. M 8	1
29	V010 321 221 A	CLIP	1
29A	VN 013 325 1	PIN 3X14	1
30	VN 012 008 6	LOCK RING B 8	1
31	VN 014 712 3	SCREW, CHEESE HD. M 8X18	1
32	V010 321 227	DUST CAP	1
33	V010 321 229	WASHER	1
34	VN 023 641 1	LOCK RING	1
35	VN 011 137 1	NUT, HEX. M 10X1	1
36	V010 398 201	LEVER SET FOR ACCELERATOR AND BOWDEN CABLE	1
37	V010 321 241 F	OIL PUMP. ALSO USE 010 323 161A THRUST WASHER	1
38	V003 321 261	PISTON RING—OIL PUMP	2
39	V010 321 261	PISTON RING—OIL PUMP	2
40	V003 321 263	GEAR SET FOR OIL PUMP	1
41	V003 321 273	LEVER FOR OIL PUMP	1
42	V010 321 279	PLATE FOR OIL PUMP	1
43	VN 012 004 3	LOCK RING B 4	2
44	VN 014 121 2	SCREW, FILL. HD. AM 4X6	2
45	V010 323 161 A	THRUST WASHER	1
46	VN 012 036 5	LOCK RING B 6	5

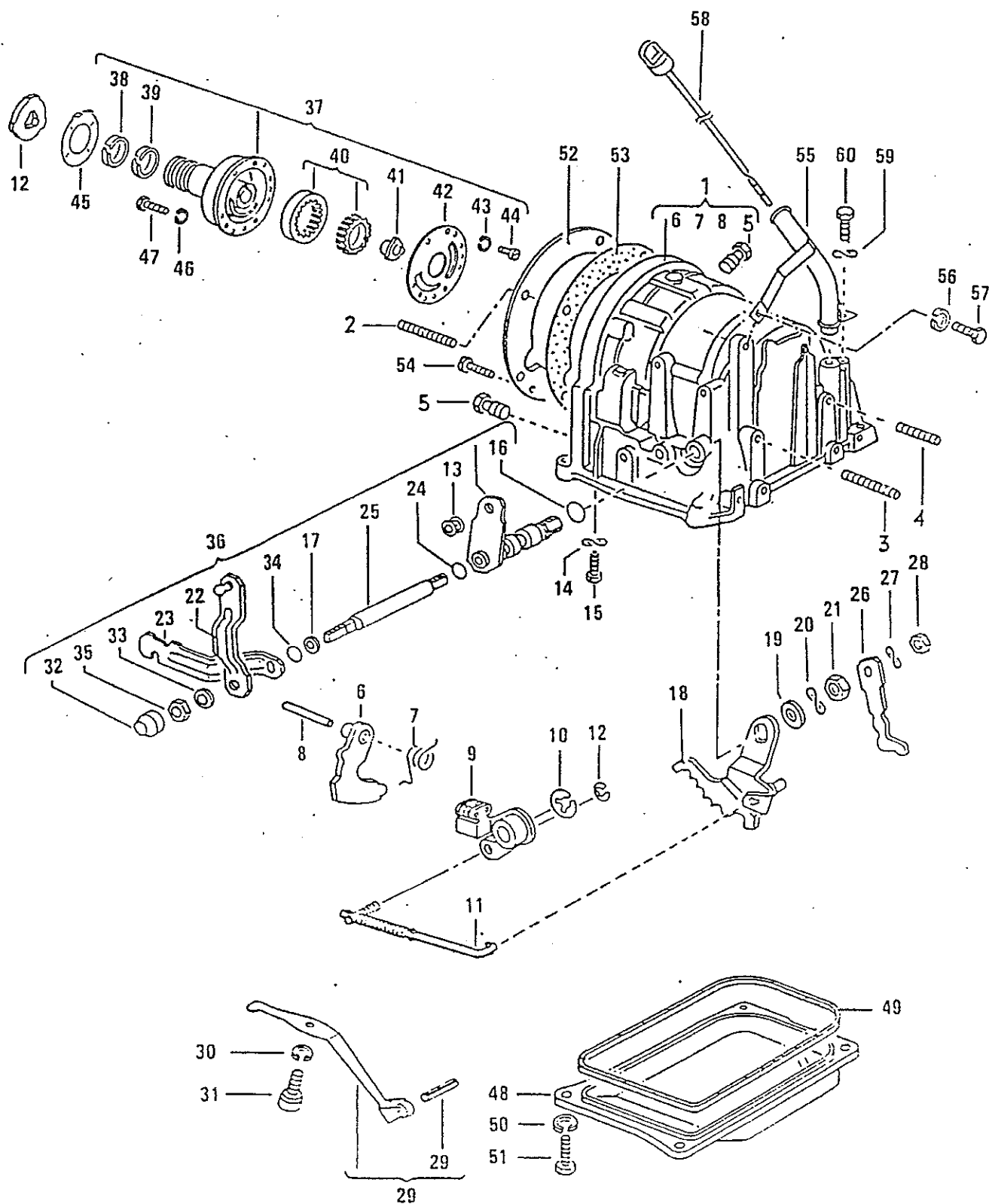


ILLUSTRATION 59 (cont'd)

TRANSMISSION CASE FOR AUTOMATIC TRANSMISSION

KEY	PART NO.	DESCRIPTION	QUANTITY
47	VN 010 339 3	BOLT, HEX. HD. M 6X40	5
48	V010 321 361	OIL SUMP	1
49	V010 321 371 B	GASKET FOR OIL SUMP	1
50	VN 012 008 6	LOCK RING B 8	4
51	VN 010 240 16	BOLT, HEX. HD. M 8X20	4
52	V010 321 383 B	INTERMEDIATE PLATE	1
53	V010 321 385 B	GASKET	2
54	VN 010 702 1	SCREW, CHEESE HD. M 5X15	1
55	V010 321 405 B	OIL FILLER PIPE	1
56	VN 012 040 5	LOCK RING 10	1
57	VN 010 253 7	BOLT, HEX. HD. M 10X22	1
58	V010 321 431 F	OIL LEVEL DIPSTICK	1
59	VN 012 226 5	SPRING WASHER B 6	1
60	VN 010 212 14	BOLT, HEX. HD. M 6X12	1

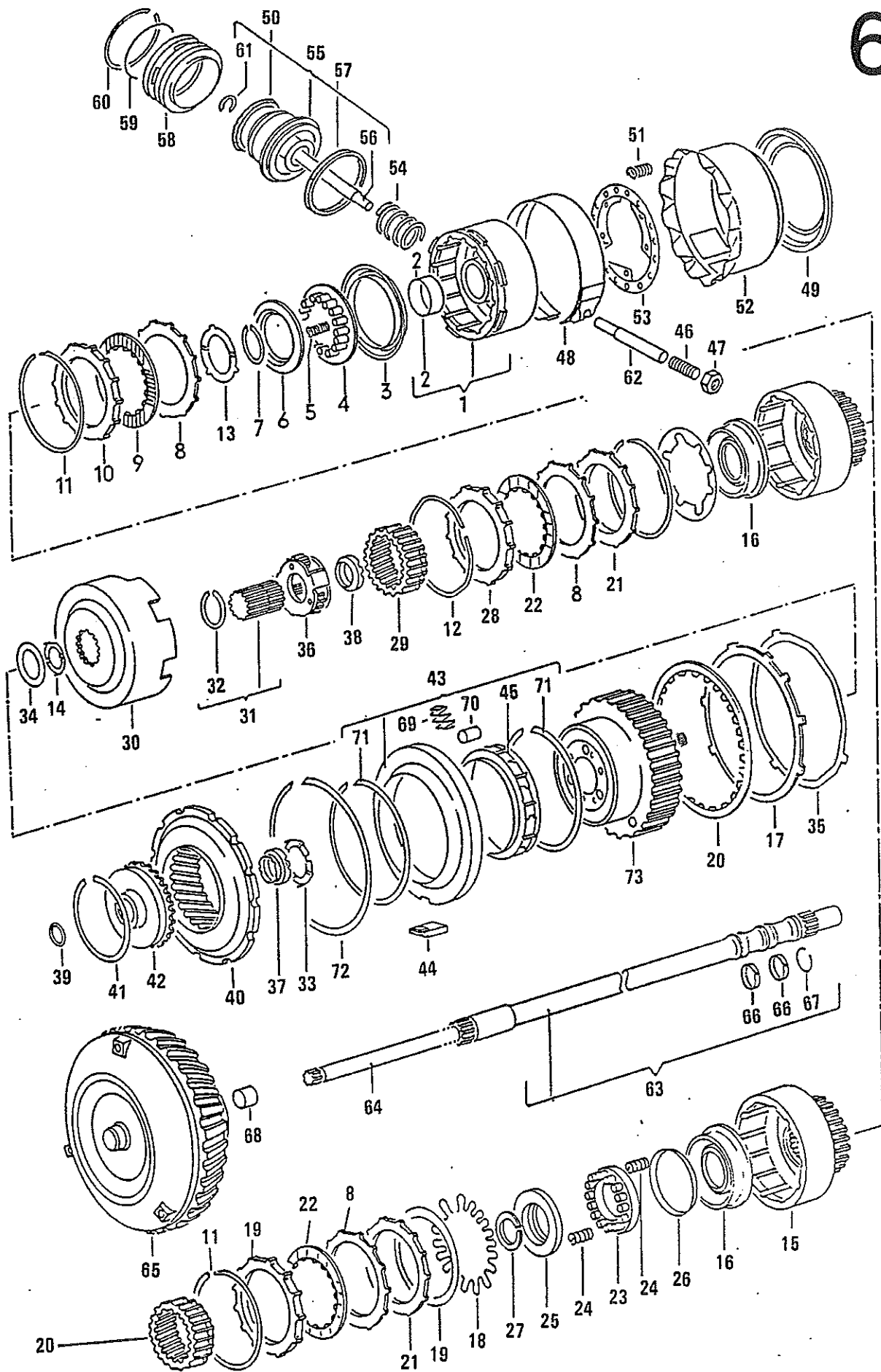


ILLUSTRATION 60

FORWARD, DIRECT AND REVERSE GEAR CLUTCH TORQUE CONVERTER FOR AUTOMATIC TRANSMISSION

KEY	PART NO.	DESCRIPTION	QUANTITY
1	V010 323 109 B	CLUTCH HOUSING DIRECT AND REVERSE GEAR	1
2	V010 323 115	BUSHING	1
3	V010 323 121 B	PISTON WITH SEALING WASHER	1
4	V010 323 127	RING FOR PRESSURE SPRINGS	1
5	V010 323 129 A	PRESSURE SPRING	24
6	V010 323 131 A	CONCAVE WASHER	1
7	V003 323 135 A	LOCK RING 55 DIA.	1
8	V010 323 139	DISC (EXTERNAL SPLINES) FOR DIRECT AND REVERSE GEAR CLUTCH FOR FORWARD CLUTCH	3
9	V010 323 141 B	DRIVING DISC	3
10	V010 323 153	END PLATE	1
11	V010 323 157 E	LOCK RING 1.50	X
(11)	V010 323 157 F	LOCK RING 1.70	X
(11)	V010 323 157 G	LOCK RING 2.00	X
(11)	V010 323 157 H	LOCK RING 2.30	X
(11)	V010 323 157 J	LOCK RING 2.50	X
(11)	V010 323 157 K	LOCK RING 2.90	X
(11)	V010 323 157 L	LOCK RING 3.20	X
(11)	V010 323 157 M	LOCK RING 3.50	X
12	V010 323 159 B	LOCK RING	1
13	V010 323 161 A	THRUST WASHER	1
14	V010 323 291	THRUST WASHER	1
15	V010 323 209 E	FORWARD CLUTCH HOUSING	1
16	V010 323 217 A	PISTON	1
17	V010 323 227 A	EXTERNAL DISC	3
18	V010 323 229 E	DIAPHRAGM SPRING	1
19	V010 323 230	DISC	1
20	V010 323 231 B	DRIVING DISC (INTERNAL SPLINES)	3
21	V010 323 237 B	END PLATE	1
22	V010 323 241	DRIVING DISC (INTERNAL SPLINES)	4
23	V010 323 243	INTERMEDIATE RING	1
24	V010 323 244	SPRING	36
25	V010 323 245	SUPPORT PLATE	1
26	V010 323 246	SUPPORT RING	1
27	VN 023 730 1	LOCK RING A 40X1.5	1
28	V010 323 253 B	PRESSURE PLATE 6.8	1
29	V010 323 273 B	ANNULUS GEAR	1
30	V010 323 281	DRIVING SHELL	1
31	V010 323 285 E	SUN GEAR	1
32	VN 042 451 1	LOCK RING B 40	1
33	V010 323 291	THRUST WASHER	2
34	V010 323 293 B	THRUST WASHER	1
35	V010 323 295 C	THRUST WASHER	1
36	V010 323 303	PLANET PINION CARRIER	1
37	V010 323 339 D	NEEDLE BEARING ARE SUPPLIED: 010 323 339 C D & E	1
38	V010 323 340 D	NEEDLE BEARING ARE SUPPLIED: 010 323 340 C/D/E	1

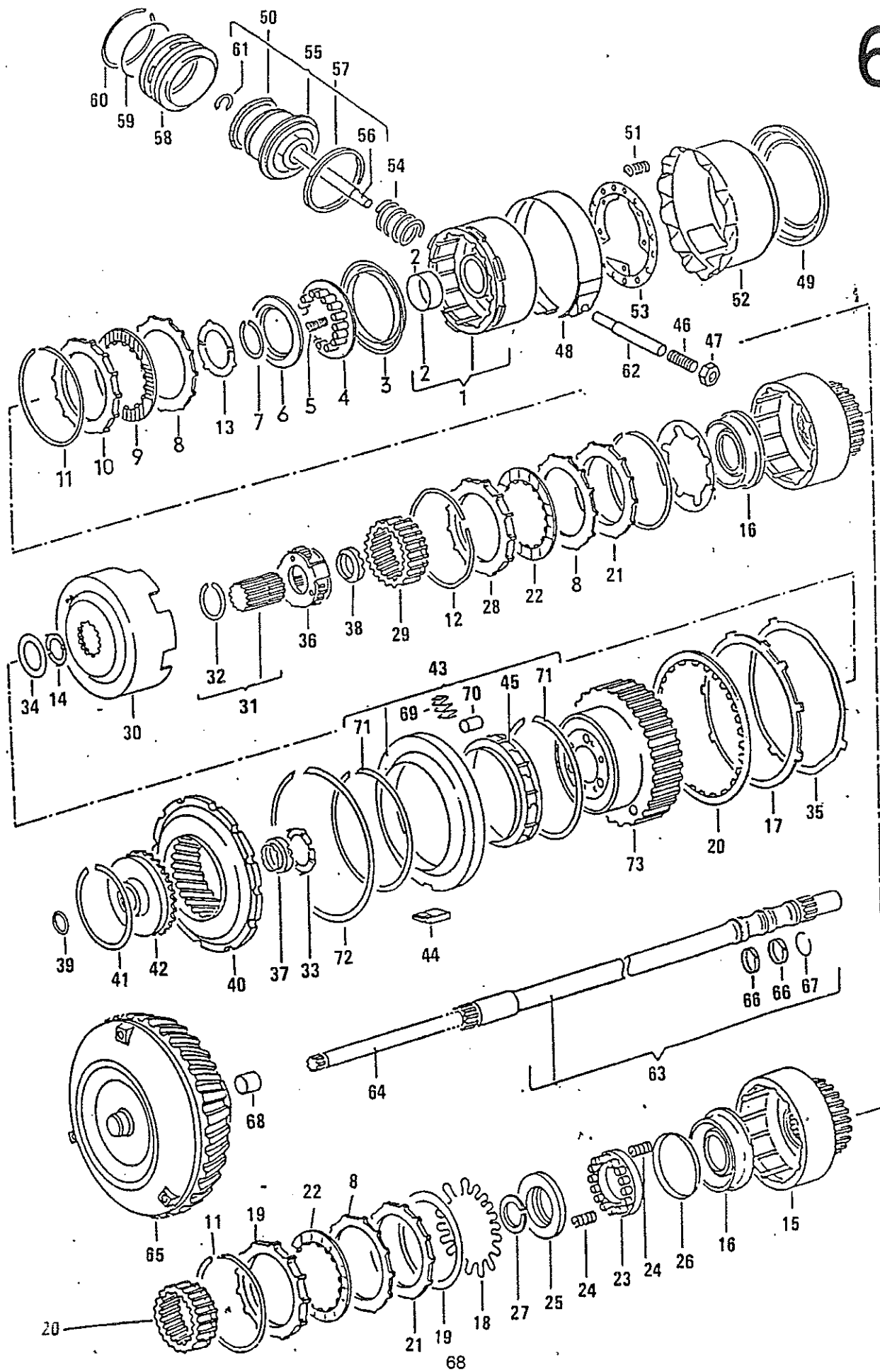


ILLUSTRATION 60 (cont'd)

FORWARD, DIRECT AND REVERSE GEAR CLUTCH TORQUE CONVERTER FOR AUTOMATIC TRANSMISSION

KEY	PART NO.	DESCRIPTION	QUANTITY
39	V010 323 345 A	SHIM 0, 4	X
(39)	V010 323 346 A	SHIM 1.2	X
40	V090 323 363 A	ANNULUS GEAR	1
41	V090 323 369	LOCK RING	1
42	V010 323 373	CLUTCH HUB	1
43	V010 323 383	GEAR—OVER RUNNING CLUTCH	1
44	V010 323 389 E	RETAINING KEY	1
45	V010 323 395 B	ONE-WAY CLUTCH CAGE	1
46	V010 323 455 A	ADJUSTING SCREW	1
47	VN 011 162 9	NUT, HEX. M 12X1.5	1
48	V010 323 461 C	BRAKE BAND	1
49	V010 323 479 A	PISTON	1
50	V010 323 487 B	SEALING WASHER	1
51	V010 323 489 B	PRESSURE SPRING	20
52	V010 323 493 E	PIPE	1
53	010 323 497 C	SUPPORT PLATE	1
54	V010 323 505 A	SPRING	1
55	V010 323 512	PISTON	1
56	V010 323 517 D	PISTON ROD	1
57	V010 323 525 C	SEALING WASHER	1
58	V010 323 529 D	COVER	1
59	V010 323 533	SEALING WASHER	3
60	V010 323 537 A	LOCK RING	1
61	V010 323 541 B	LOCK WASHER	1
62	V010 323 543 A	BOLT	1
63	V010 323 553	DRIVE PINION	1
64	V010 323 561	SHAFT—OIL PUMP	1
65	V010 323 571 C	TORQUE CONVERTER CODE LETTER "U"	1
(65)	V010 323 571 CX	TORQUE CONVERTER REMANUFACTURED	1
66	V010 323 557 A	PISTON RING	2
67	V010 323 558	LOCK RING FOR DRIVE PINION	1
68	V003 323 611	BUSHING	1
69	V010 323 643	SPRING	10
70	VN 026 360 1	DOWEL PIN 8X12	10
71	V010 323 651	LOCK RING	2
72	V010 323 653 A	LOCK RING	1
73	V090 323 805	PLANET PINION CARRIER	1

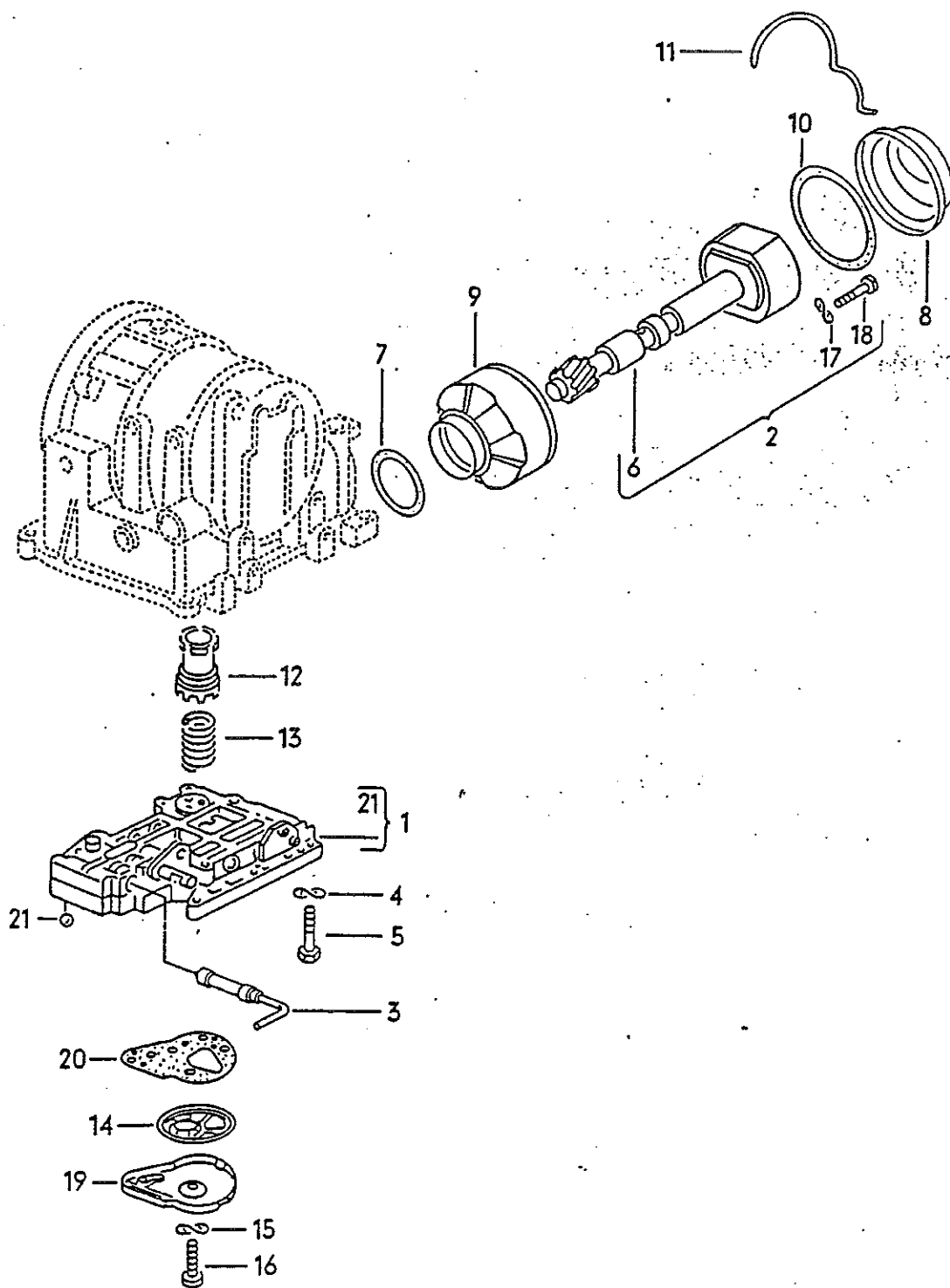


ILLUSTRATION 61

VALVE BODY, OIL STRAINER FOR AUTOMATIC TRANSMISSION

KEY	PART NO.	DESCRIPTION	QUANTITY
1	V010 325 032 D	VALVE BODY CODE LETTER "CB"	1
2	V010 325 041 A	REGULATOR	1
3	V003 325 277	MANUAL VALVE	1
4	VN 012 226 5	SPRING WASHER B 6	11
5	VN 010 346 2	BOLT, HEX. HD. M 6X30	11
6	V010 325 305 D	SHAFT—GOVERNOR	1
7	V021 105 279	SEALING WASHER	1
8	V010 325 373 A	COVER	1
9	V010 325 379 A	HOUSING	1
10	V010 325 381 A	SEAL	1
11	V010 325 385	CLIP	1
12	V003 325 405 E	PISTON FOR ACCUMULATOR	1
13	V003 325 417	PRESSURE SPRING	1
14	V010 325 421 A	OIL STRAINER	1
15	VN 012 225 3	SPRING WASHER B 5	3
16	VN 014 131 3	SCREW, CHEESE HD. AM 5X15	3
17	VN 012 225 3	SPRING WASHER B 5	2
18	VN 014 153 1	SCREW, CHEESE HD. M 5X40	2
19	V010 325 429 A	COVER FOR OIL STRAINER	1
20	V010 325 443	GASKET FOR OIL STRAINER	1
21	VN 025 652 2	BALL 3	3

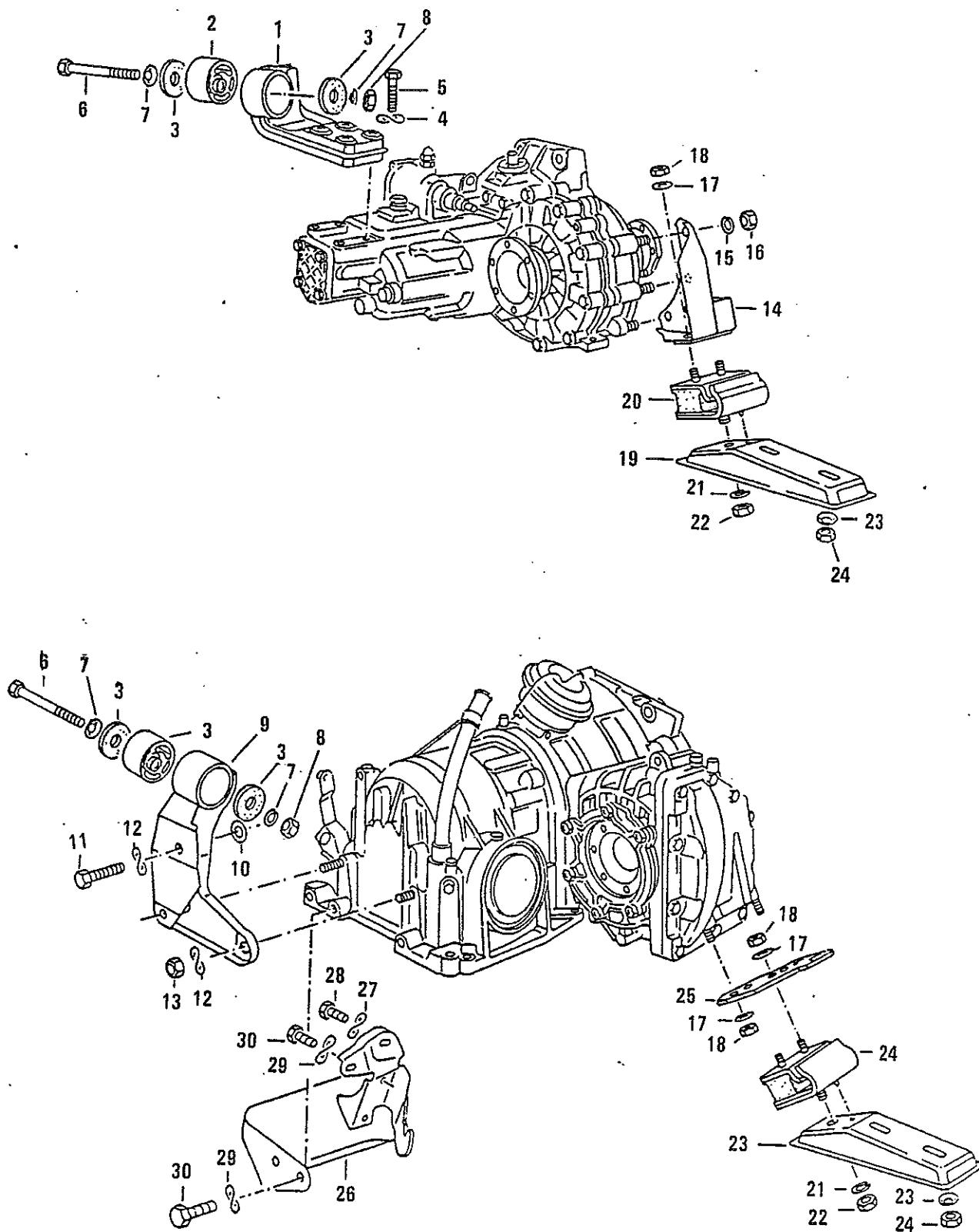


ILLUSTRATION 62
TRANSMISSION MOUNTING BRACKETS

KEY	PART NO.	DESCRIPTION	QUANTITY
1	V175 399 113	MOUNTING BRACKET, FRONT FOR 5 SPEED TRANSMISSION	1
2	V171 199 214 J	BONDED RUBBER MOUNTING	1
3	V171 199 125 A	RUBBER WASHER	2
4	VN 012 241 11	SPRING WASHER B 8X15	4
5	VN 010 352 3	BOLT, HEX. HD. B 8X55	4
6	G 1101683	BOLT, HEX HD	1
7	G 117957	WASHER, FLAT	2
8	G 1101685	NUT, HEX HD, LOCKING	1
9	V171 399 113 G	MOUNTING BRACKET, FRONT FOR AUTOMATIC TRANSMISSION	1
10	V021 101 129	WASHER	1
11	VN 010 465 5	BOLT, HEX. HD. M 10X65	1
12	VN 012 230 6	SPRING WASHER B 10	3
13	VN 011 010 11	NUT, HEX. M 10	2
14	V171 399 132	MOUNTING BRACKET, REAR FOR MANUAL TRANSMISSION	1
15	VN 012 011 3	LOCK RING A 10	3
16	VN 011 010 11	NUT, HEX. M 10	3
17	V111 129 720	WASHER	X
18	VN 011 008 8	NUT, HEX. M 8	X
19	V171 399 141	BRACKET, REAR	1
20	V175 399 151 B	BONDED RUBBER MOUNTING	1
21	VN 012 042 4	LOCK RING B 12	1
22	VN 011 020 4	NUT HEX. M 12X1.5	1
23	G 1117942	WASHER, FLAT	2
24	G 1117322	NUT, HEX LOCKING	2
25	V171 399 139 A	MOUNTING BRACKET, REAR FOR AUTOMATIC TRANSMISSION	1
26	V171 399 291	COVER PLATE FOR AUTOMATIC TRANSMISSION	1
27	VN 012 241 11	SPRING WASHER	2
28	VN 010 239 24	BOLT, HEX. HD. M 8X18	2
29	VN 012 230 6	SPRING WASHER B 10	4
30	VN 010 254 14	BOLT, HEX. HD. M 10X25	4
—	G1117033	BOLT, HEX. HD TRANSMISSION BRACKET TO BODY	1
—	G1117957	WASHER, FLAT	X