

18.05.2020

# Spare Parts Catalog 16 S 2225 TO

Material number: 1342.031.049

Current date: 18.05.2020

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#### Notes relating to the spare parts catalog

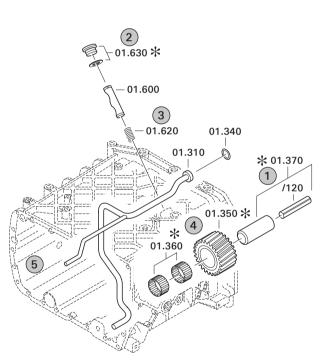


#### Setup of the spare parts catalog

- Cover sheet
- Tecnical Cover (only in SDM print)
- Overview of figures
- Figure
- Associated parts list
- Next figure
- Associated parts list

- ..

#### Figure and parts list



#### Overview of figures

Bildtafel Figure	Sachnummer Product number	Benennung (Description)	Technische Info Technical info	Description (Benennung)	Menge Quantity	Einheit Unit
068.08.17	1316.170.001	AUSLEGER	WL	SHIFT TURRET	1	Stk
068.08.06	1316.170.031	DECKEL	WL*H-H *VM	COVER	1	Stk
0680814	1316.170.808	DECKEL	WL*AUSL+GEH*H-H*HF160N	COVER	1	Stk
08	1316.170.441	ANSCHLUSSTEILE	WL*NG-VORB*RG-SCHL*168N *BAJONETT	CONNECTING PARTS	1	Stk

The "gap" indicates that there is no separate graphics panel (poster) for this assembly The parts of this assembly are shown with the same mid-section number on the figure

#### 1 Positions and subpositions

Pos.	Sachnummer Product number	Benennung (Description)		Description (Benennung)	Menge Quantity	Einheit Unit
0370	1315.201.054	RUECKLAUFBOLZEN	KPL.16S151*SG*L= 79	REV.IDLER SHAFT	1	Stk
/0120	0631.329.293	SPANNSTIFT		SLOT. PIN	1	Stk

Positions marked with "/" are the individual items of a completion For example: Position 0370 contains a centering pin with the position /0120

#### 2 Combinations with standardized parts

		Sachnummer Product number	Benennung (Description)		Description (Benennung)	Menge Quantity	Einheit Unit
(	0630		VERSCHL.SCHR.		SCREW PLUG	1	Stk
		0636.302.067	VERSCHL.SCHR.		SCREW PLUG	1	Stk
		0634.801.249	DICHTRING	A 26 X 31	SEALING RING	1	Stk

The parts list shows the components included in the combination of standardized parts

#### 3 Depiction of position/item number on the figure and in the parts list

01.620 - on the figure 01 relates to the assembly in which the position is included. Due to program-related reasons, it is shown on the figure.

#### 0620 - in the parts list

Pos.	Sachnummer Product number	Benennung (Description)	Description (Benennung)	Menge Quantity	Einheit Unit
0620	0732.040.736	DRUCKFEDER	COMPRESSION SPRING	1	Stk

#### (4) \*-Positions

Positions marked with an \* are optional i.e. inclusion in the parts list is not mandatory. The following note is shown on the figure

je nach Stücklistenausführung depending on spec. number suivant la nomenclature secondo la distina base

#### (5) Parts, dotted display

Parts with dotted display on the figure are only used for orientation of other parts

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Pos.	Information	Amendment number
001	Use case	
002	Customer KAMAZ PUBLIC JOINT STOCK COMPANY	
003	City Naberezhnye Chelny	
004	DUNS 64-493-2113	
005	Vehicle / Apparatus	
006	Sales Name 65801	
007	Manufacturer KAMAZ PUBLIC JOINT STOCK COMPANY	
008	Engineering Name	
009	Product Use TRUCK	
010	Vehicle/Hardware Type DUMPER	
011	SOP	
012	Engine	
013	Sales Designation ISG 12-440	
014	Manufacturer Cummins Engine Co.	
015	Drivetrain type DIESEL	
016	Eng.Displ. 11800 cm3	
017	Cylinder 6	
018	Nom. power 328 kW	
019	RPM at nom. power 1400 1/min	
020	Nom. torque 2200 Nm	
021	RPM at nom. torque 1000 1/min	
022	Classification use case	
023	DESIGNATION, CLUTCH MFZ430	
024	MANUFACTURER, CLUTCH ZF-SACHS	
025	TOTAL NUMBER OF WHEELS 8	
026	NUMBER OF DRIVING WHEELS 4	
027	DYNAMIC TYRE RADIUS 566 mm	
028	REAR AXLE RATIO 5.262	
032	PERMISS.GROSS VEHICLE WEIGHT 50 t	
033	PERMISS.GROSS COMBIN.WEIGHT 80 t	
034	Product description	
035	CO2-FAMILY XXX	
036	CO2-CERTIFICATE XXX	

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Pos.	Information	Amendment number
109	OUTER DIA. OUTPUT FLANGE RA 180 mm	
111	NO.OF SCREWS OUTPUT FLANGE RA 4	
113	DIA. THREAD OUTPUT FL. SCR. RA M14	
114	THREAD PITCH OUTPUT FL SCR. RA 1.5 mm	
115	THREAD LENGTH OUTP.FL SCREW RA 50 mm	
117	REF. LENGTH OUTPUT FLANGE RA 211.5 mm	
172	DESIGN PTO K62 N 221 PL	
173	POSITION PTO K62 TOP	
175	NO. OF TEETH PTO OUTPUT GEAR Z1 K62 85	
176	NO. OF TEETH PTO IDLER GEAR Z2 K62 67	
177	NO. OF TEETH PTO OUTPUT GEAR Z3 K62 46	
194	OIL CAPACITY, GEARBOX 13 dm3	
195	OIL FILL VARIANT EX WORKS	
196	OIL GRADE PERMISSIBLE ACC. TO TE-ML02	
197	OIL CLASS FIRST FILLING E	
198	CODING OUTER CONSERVATION KA1	
199	SCOPE OUTER CONSERVATION T	
200	CODING INNER CONSERVATION KI1	
201	CONSERVATION SPECIFICATION ZFN 916	
202	COLOR JET BLACK	
203	COLOUR CLASSIFICATION ACC. TO RAL 9005	
204	PAINTING, ZF STANDARD 915 W	

# Assembly group overview

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Graphics	Pos.	Material number	Name	Quantit y	Amend. no.	Techn. Info.
	910	1342.002.087	16 S 2220 TO	1		
	926	6091.016.014	N 221/PL	1		

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Pos.	Information	Amendment number
001	Use case	
002	Customer KAMAZ PUBLIC JOINT STOCK COMPANY	
003	City Naberezhnye Chelny	
004	DUNS 64-493-2113	
005	Product description	
006	CO2-FAMILY XXX	
007	CO2-CERTIFICATE XXX	
008	INSTALLATION POS TRANSMISSION HORIZONTAL LEFT	
009	TRANSMISSION ATTACHMENT FLANGE-MOUNTED	
010	RATIO, BOTTOM GEAR 13.8	
011	RATIO, TOP GEAR .84	
012	RATIO, 1ST GEAR 13.8	
013	RATIO, 2ND GEAR 11.54	
014	RATIO, 3RD GEAR 9.49	
015	RATIO, 4TH GEAR 7.93	
016	RATIO, 5TH GEAR 6.53	
017	RATIO, 6TH GEAR 5.46	
018	RATIO, 7TH GEAR 4.57	
019	RATIO, 8TH GEAR 3.82	
020	RATIO, 9TH GEAR 3.02	
021	RATIO, 10TH GEAR 2.53	
022	RATIO, 11TH GEAR 2.08	
023	RATIO, 12TH GEAR 1.74	
024	RATIO, 13TH GEAR 1.43	
025	RATIO, 14TH GEAR 1.2	
026	RATIO, 15TH GEAR 1	
027	RATIO, 16TH GEAR .84	
028	RATIO, 1ST GEAR REVERSE 12.92	
029	RATIO, 2ND GEAR REVERSE 10.8	
030	SET OF RATIOS SG	
031	RATIO RANGE BASIC DG	
032	NUMBER OF PLANETARY GEARS 5	
033	RATIO PLANETARY GEAR SET 4.565	

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Pos.	Information	Amendment number
034	VER. SPLINE PLANETARY GEAR SET OBLIQUE TOOTHING	
035	DESIGN, SHIFT SYSTEM TURNING SHAFT	
036	POSITION, GEAR SHIFT SYSTEM HORIZONTAL LEFT	
037	DESIGN, SHIFT PATTERN H-H	
038	VERSION SHIFT SUPPORT GATE DEPENDENT SERVO	
039	VERSION ACTUATION SHIFT SYSTEM CONTROL CABLE	
041	DESIGN PSE PSE6	
042	VERSION TUBE R/C PLASTIC-FORM-PIPE	
043	VERSION TUBE SERVO WITHOUT PIPING	
045	DESIGN DOWNSHIFT GATE INTERLOCK WITHOUT GROOVE	
046	VERSION TUBE GATE INTERLOCK WITHOUT PIPING	
047	1ST CUSTOMER SPEC SHIFT SYSTEM WITHOUT GROOVE	
048	2ND CUSTOMER SPEC SHIFT SYSTEM WITHOUT GROOVE	
049	DIA THROTTLE MAIN CUTOFF VALVE 1.55 mm	
050	NO. TAPPETS MAIN CUTOFF VALVE 2	
051	POS. AIR CON MAIN CUTOFF VALVE F	
054	SELECTION PATTERN VARIANT GEAR SHIFT PATTERN 1	
055	DESIGN, SEPARATING CLUTCH FULL-SYNCHRONIZED	
056	VERSION OF SYNCHRONIZER 1 14.GEAR BK-SYNCHRONIZATION	
058	REFERENCE LENGTH INPUT SHAFT 109 mm	
059	STANDARD TYPE INPUT SHAFT SAE	
060	NUMBER OF WEDGES INPUT SHAFT 10	
061	VERSION OF INPUT SHAFT FORM C	
062	NOMINAL DIAMETER INPUT SHAFT 2 in	
063	DIAMETER, JOURNAL, INPUT SHAFT 25 mm	
064	TYPE FIT SPIGOTS INPUT SHAFT F7	
065	VER. BEAR. SPIGOTS INPUT SHAFT TAPER ROLLER	
066	LENGTH, INPUT SHAFT 395.5 mm	
067	DIAMETER SHAFT OF INPUT SHAFT 50.3 mm	
068	LENGTH, PROFILE, INPUT SHAFT 120 mm	
069	BUSH VARIANT INPUT SHAFT WITHOUT GROOVE	
070	VERSION BEARING CONSTANT 1 GL	
071	DIAMETER BEARING INPUT SHAFT 99.916 mm	

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Pos.	Information	Amendment number
072	TYPE FIT BEAR. INPUT SHAFT H5	
073	DESIGN,CONN., CLUTCH HOUSING SAE 1	
074	CENTR.DIA,HSG/ENGINE CONNECT. 511.175 mm	
075	NUMBER OF BORES, ENGINE CONN. 12	
076	BORE DIA, ENGINE CONNECTION 11 mm	
077	VERSION OF CLUTCH HOUSING INTEGRATED	
079	VERSION ENGINE CONNECTION NOT FORDABLE	
080	POSITION MOUNT. FACE HOUSING 2 WITHOUT GROOVE	
081	LENGTH CLAMP. FLAP RH ENG CONNECT. 292 mm	
083	TYPE OF RELEASE MECHANISM WITH	
084	REF.LENGTH,RELEASE BEAR.FLAN -7 mm	
085	DIAMETER, RELEASE FLANGE 60 mm	
086	TYPE FIT RELEASE BEARING FLA. F8	
087	DIAMETER BEARING BUSH RELEASE UNIT LH 35 mm	
088	VERSION OF CLUTCH CYLINDER WITH	
089	ASSEMBLY POS. CLUTCH CYLINDER 6	
090	OUTER DIA. OUTPUT FLANGE RA mm	
092	NO.OF SCREWS OUTPUT FLANGE RA	
094	DIA. THREAD OUTPUT FL. SCR. RA	
095	THREAD PITCH OUTPUT FL SCR. RA mm	
096	THREAD LENGTH OUTP.FL SCREW RA mm	
098	REF. LENGTH OUTPUT FLANGE RA mm	
099	DIMENSION SHIFT TURRET DIST. 300 mm	
100	MEAS. LOC. SHIFT TURRET DIST. SHIFT LEVER-LOCATION	
101	SELECTOR LEVER y	
102	RADIUS SELECTOR LEVER 69 mm	
103	SELECTOR LEVER POSITION B	
104	DESIGN OFFSET SELECTOR LEVER OUTSIDE	
105	LENGTH OFFSET SELECTOR LEVER 3.5 mm	
106	DESIGN, SHIFT LEVER WITHOUT GROOVE	
107	RADIUS 1 SHIFT LEVER mm	
108	SHIFT LEVER CONNECTION HEXAGON	
109	DESIGN, OFFSET, SHIFT LEVER	

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Pos.	Information	Amendment number
111	LEVER POSITION SHIFTING OUTPUT	
114	SPRING ARRANGEMENT Q1	
115	SPRING FORCE DETENT PLUNGER RG 120.000 N	
116	HUMP SPRING FORCE, OUTSIDE 160 N	
119	SELECTOR SPRING FORCE, OUTSIDE 50 N	
122	SPRING FORCE OUTS. DETENT NEUT 200 N	
123	ALLOCATION DETENT LEVER VER. A	
124	SWITCH, REVERSE GEAR y	
125	DESIGN, RG (REV.GEAR) SWITCH CLOSING	
126	DESIGN, CONNECTION, RG SWITCH DIN BAYONET	
127	CODE SWITCH RG A1	
128	PROT.CAP SWITCH, REVERSE GEAR y	
129	NOTE ON SWITCH, REVERSE GEAR G.SHIFT SHAFT	
130	SWITCH, NEUTRAL GEAR y	
131	DESIGN,NG(NEUTRAL GEAR)SWITCH OPENING SWITCH	
132	DESIGN, CONNECTION, NG SWITCH DIN BAYONET	
133	CODE SWITCH NG A1	
134	PROT.CAP SWITCH, NEUTRAL GEAR y	
135	PRESSURE SWITCH n	
140	RG-GATE-IDENTIFICATION SWITCH n	
145	SWITCH RG-ENGAGED n	
155	FUNCTION OF R/C SWITCH GP	
156	DESIGN, GP SWITCH CLOSING	
157	DESIGN, CONNECTION, GP SWITCH DIN BAYONET	
159	PROTECTING CAP GP SWITCH y	
160	FUNCTION OF S/G SWITCH GV	
161	DESIGN, GV SWITCH PREPARED	
164	PROTECTING CAP GV SWITCH n	
165	SWITCH HG n	
202	ATTACHM.POS.HEAT EXCHANGER IN FRONT LEFT PREPARED	
204	VER. TRANSMISSION VENTILATION PLUG CONNECTION 90 DEGREE	
205	LENGTH, VENT TUBE 2200 mm	
206	POS.TRANSMISSION VENTILATION IN FRONT	

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Pos.	Information	Amendment number
212	VERSION PULSE SENSOR SFA H68 WITH	
213	DESIGN PULSE SENSOR H68 KITAS II	
214	DESIGN CONN.PULSE SENSOR SFA H68 DIN BAYONET	
215	NOTE PULSE SENSOR H68 ADR-EXPLOSION-PROOF	
216	PROT.CAP PULSE SENSOR SFA H68 y	
217	NO. PULSES PULSE SENSOR SFAH68 6 IMP/U	
222	VER. PULSE SENSOR TRANSM. H70 WITHOUT GROOVE	
226	PROT.CAP PULSE SENSOR TM H70 n	
227	NO PULSES PULSE SENSOR TM H70 6 IMP/U	
228	ASSEMBLY POS PULSE SENSOR H70 1	
229	NOTE ASS. POS PULSE SENSOR H70 INSTALLATION DRAWING	
241	POSITION, OIL FILLER HOUSING LEFT+RIGHT	
242	NOTE ON OIL FILL IN OVERFLOW	
243	OIL CAPACITY, GEARBOX dm3	
244	OIL FILL VARIANT	
245	OIL GRADE PERMISSIBLE ACC. TO	
246	OIL CLASS FIRST FILLING	
247	CODING OUTER CONSERVATION	
248	SCOPE OUTER CONSERVATION	
249	CODING INNER CONSERVATION	
250	CONSERVATION SPECIFICATION	
251	COLOR	
252	COLOUR CLASSIFICATION ACC. TO RAL	
253	PAINTING, ZF STANDARD	

# Assembly group overview

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Graphics	Pos.	Material number	Name	Quantit y	Amend. no.	Techn. Info.
068.01.05-1	110	1316.101.103	TRANSMISSION HOUSING	1		
068.01.52-1	120	1316.101.524	TRANSMISSION HOUSING	1		
068.02.59-1	140	1315.102.429	CONNECTION PLATE	1		
068.02.82-1	150	1315.102.811	INPUT SHAFT	1		
068.02.02-1	910	1316.102.106	INPUT SHAFT	1		
068.03.80-1	180	1316.103.803	COUNTERSHAFT	1		
068.03.01-1	920	1316.103.013	COUNTERSHAFT	1		
068.04.13-1	10	1316.104.037	MAIN SHAFT	1		
068.004.025- 1	20	1316.104.075	MAIN SHAFT	1		
068.06.01-1	230	1316.106.008	SHIFT SYSTEM	1		
068.06.43-1	234	1315.106.422	CONNECTING PARTS	1		
068.06.80-1	238	1315.106.800	SHIFT SYSTEM	1		
068.07.90-1	292	1341.108.803	GEAR SHIFT HOUSING	1		
068.07.39-1	910	1316.108.077	GEAR SHIFT HOUSING	1		
068.07.26-1	914	1316.108.463	GEARSHIFT SHAFT	1		
068.07.65-1	924	1316.108.014	DETENT	1		
062.08.30-1	954	1316.171.403	END COVER	1		
068.08.02-1	960	1316.171.437	PNEUMATIC SERVO UNIT	1		
068.08.28-1	964	1316.171.844	CONNECTING PARTS	1		
068.09.01-1	934	1316.109.024	CONNECTING PARTS	1		
068.09.11-1	940	1316.109.419	CONNECTING PARTS	1		
068.10.89-1	296	1341.111.802	SELECTOR LEVER	1		
068.10.13-1	932	1316.111.007	SELECTOR LEVER	1		
068.12.12-1	918	1316.149.461	SET OF SPRINGS	1		
068.40.04-1	500	1316.112.014	GV-SHIFT SYSTEM	1		
068.40.02-1	502	1315.112.432	CONNECTING PARTS	1		
068.43.02-1	20	1315.131.036	RC HOUSING	1		
068.43.40-1	30	1315.131.400	CLOSING COMPONENTS	1		
068.43.80-1	512	1315.131.805	RC HOUSING	1		
068.43.43-1	516	1315.131.439	CONNECTING PARTS	1		
068.44.07-1	40	1315.132.015	PLANETARY DRIVE	1		

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Graphics	Pos.	Material number	Name	Quantit y	Amend. no.	Techn. Info.
068.45.04-1	70	1316.133.008	SYNCHRONIZER	1		
068.45.40-1	80	1315.133.406	SYNCHRONIZER	1		
068.46.02-1	90	1316.134.021	GP SHIFT SYSTEM	1		
068.46.40-1	554	1315.134.413	CONNECTING PARTS	1		
068.57.04-1	390	1316.145.002	RANGE SELECTION	1		
068.93.95-1	130	1315.168.019	CLUTCH RELEASE DEVICE	1		
068.93.28-1	132	1315.168.426	CLUTCH RELEASE DEVICE	1		

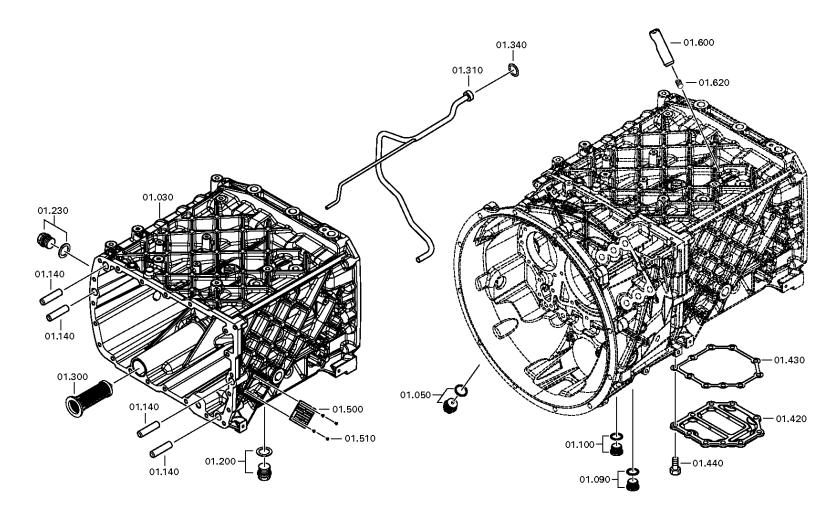
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Material number: 1342.002.087

Plant: 068.01.05-1

TRANSMISSION HOUSING





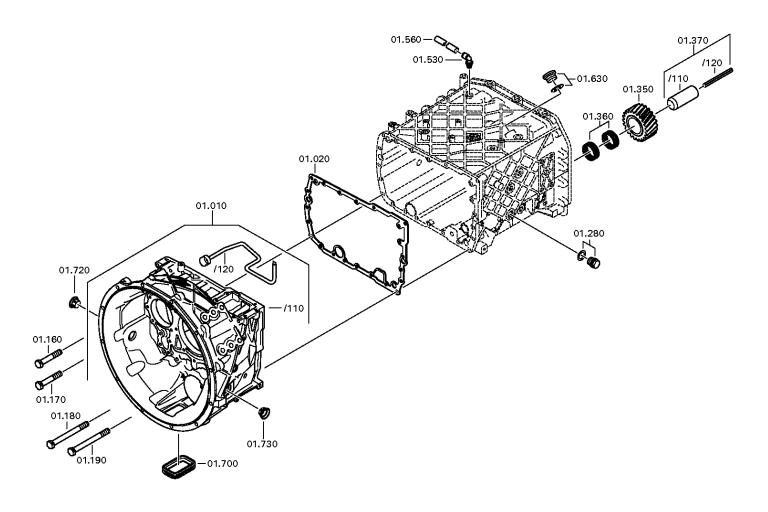
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Material number: 1342.002.087

Plant: 068.01.52-1

TRANSMISSION HOUSING



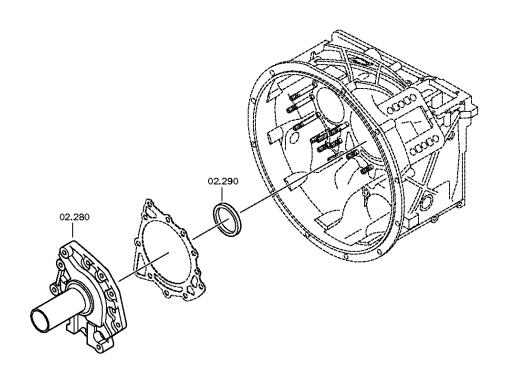


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Material number: 1342.002.087

Plant: 068.02.59-1 CONNECTION PLATE



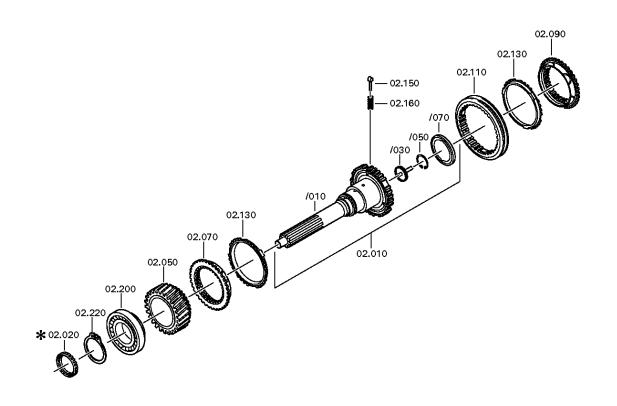


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Material number: 1342.002.087

Plant: 068.02.02-1 CONNECTION PLATE



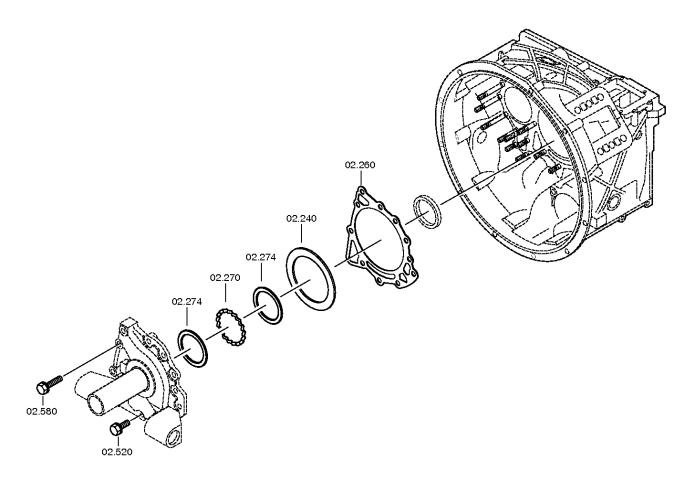


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Material number: 1342.002.087

Plant: 068.02.82-1 CONNECTION PLATE



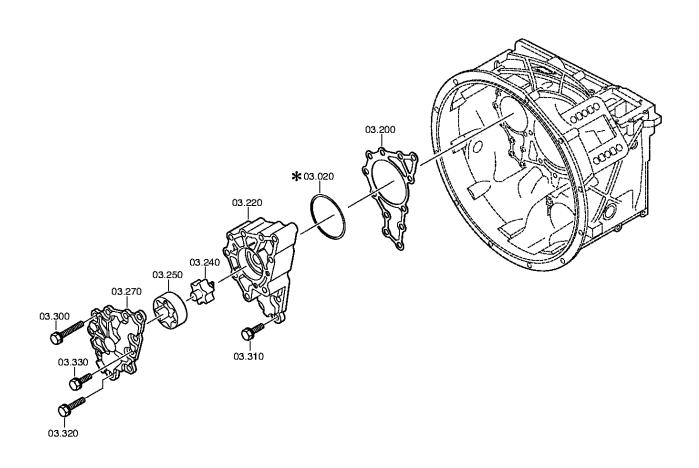


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Material number: 1342.002.087

Plant: 068.03.80-1 COUNTERSHAFT



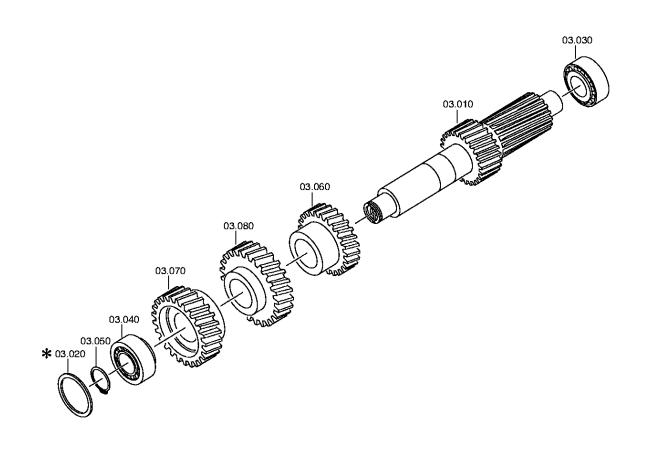


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Material number: 1342.002.087

Plant: 068.03.01-1 COUNTERSHAFT





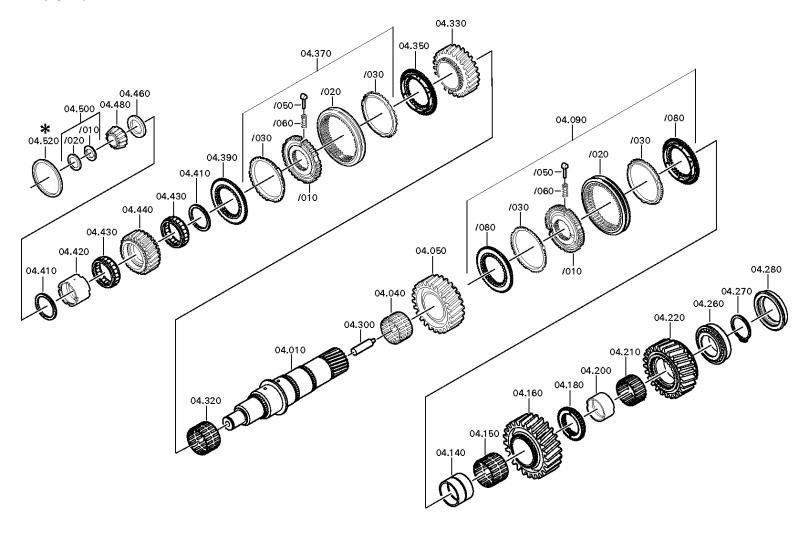
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Material number: 1342.002.087

Plant: 068.04.13-1

Material-assembly-group-no: 1316.104.037





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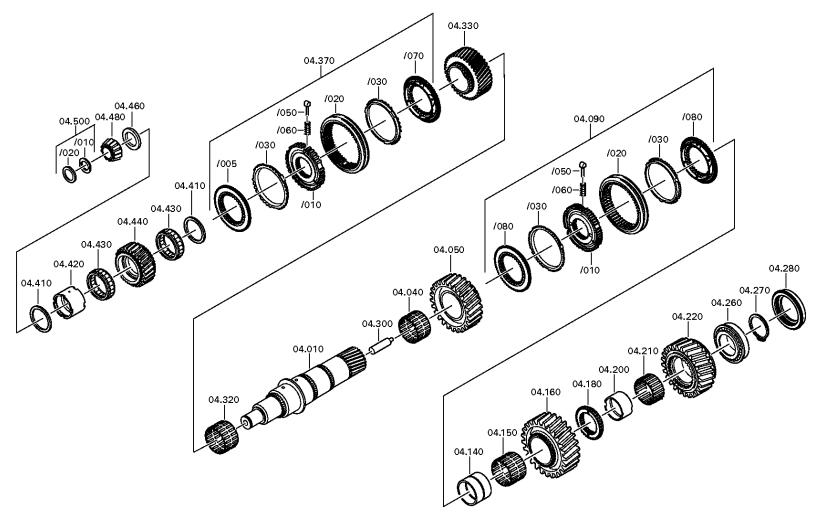
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Material number: 1342.002.087

Plant: 068.004.025-1

Material-assembly-group-no: 1316.104.075



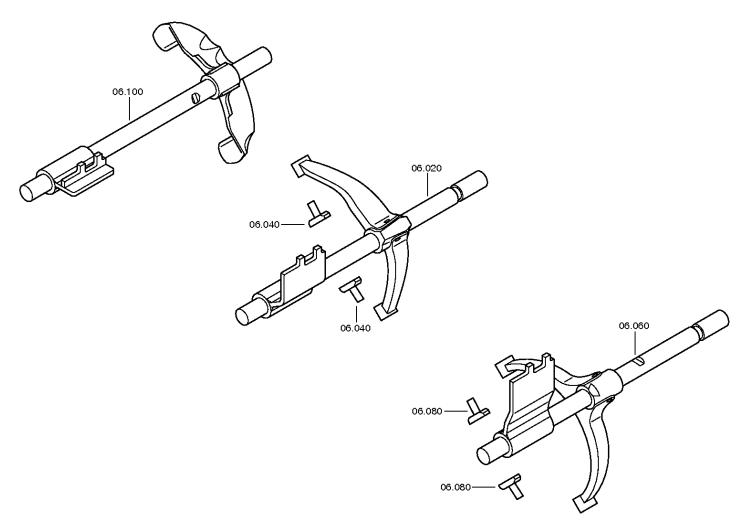


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Material number: 1342.002.087

Plant: 068.06.01-1 SHIFT SYSTEM



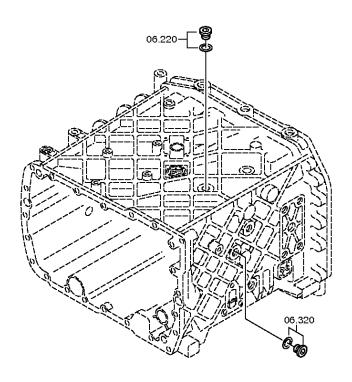


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Material number: 1342.002.087

Plant: 068.06.43-1 SHIFT SYSTEM



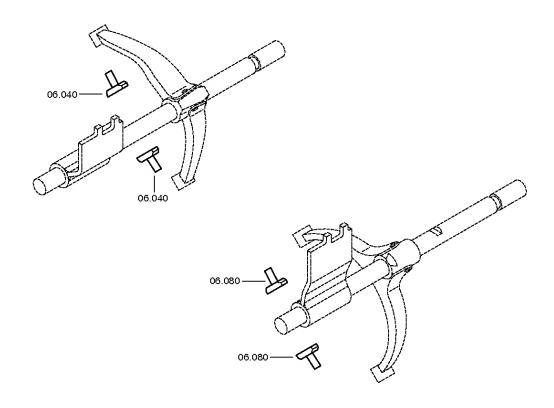


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Material number: 1342.002.087

Plant: 068.06.80-1 SHIFT SYSTEM



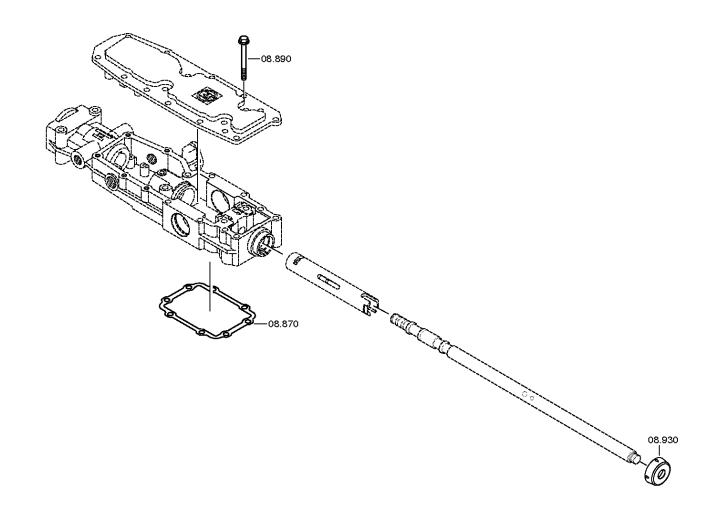


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Material number: 1342.002.087

Plant: 068.07.90-1 GEAR SHIFT HOUSING



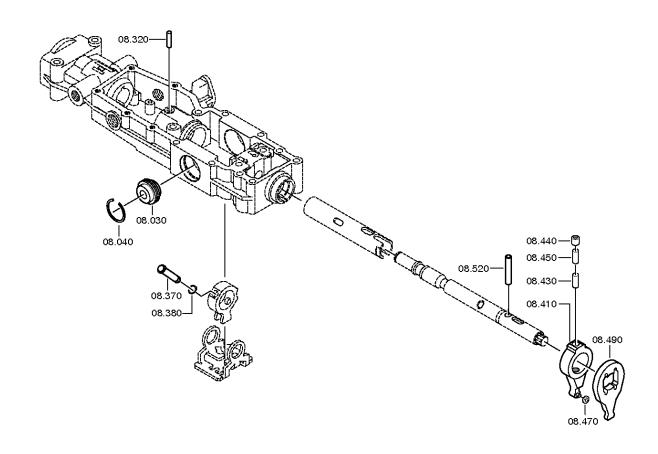


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Material number: 1342.002.087

Plant: 068.07.26-1 GEAR SHIFT HOUSING



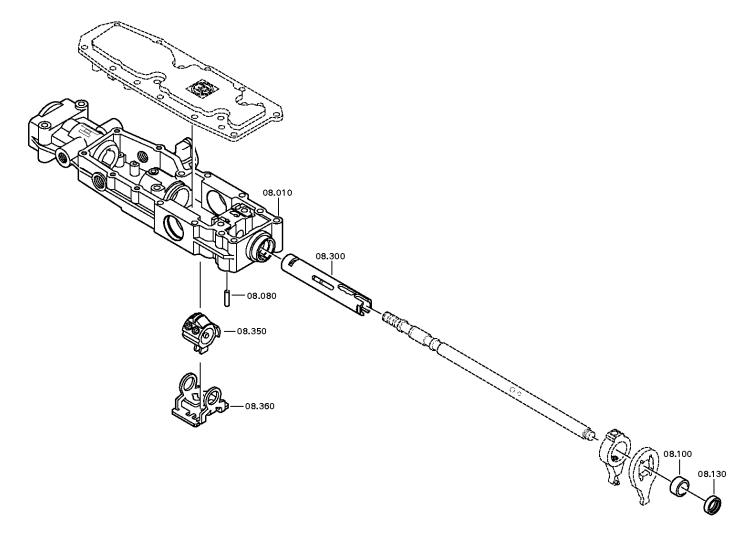


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Material number: 1342.002.087

Plant: 068.07.39-1 GEAR SHIFT HOUSING



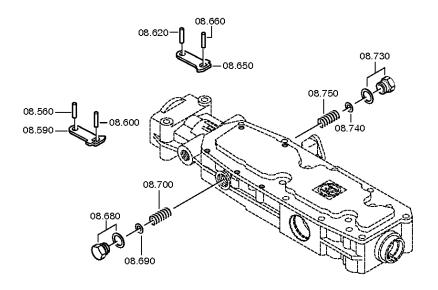


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Material number: 1342.002.087

Plant: 068.07.65-1 GEAR SHIFT HOUSING



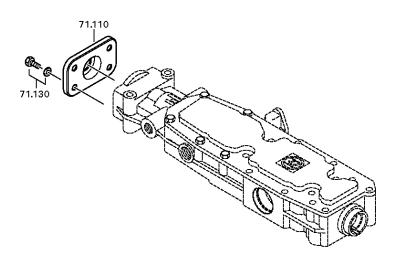


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Material number: 1342.002.087

Plant: 062.08.30-1 END COVER



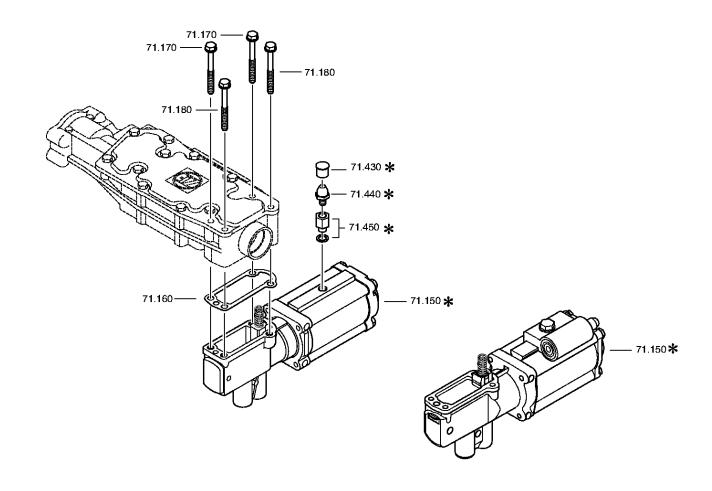


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Material number: 1342.002.087

Plant: 068.08.02-1 END COVER



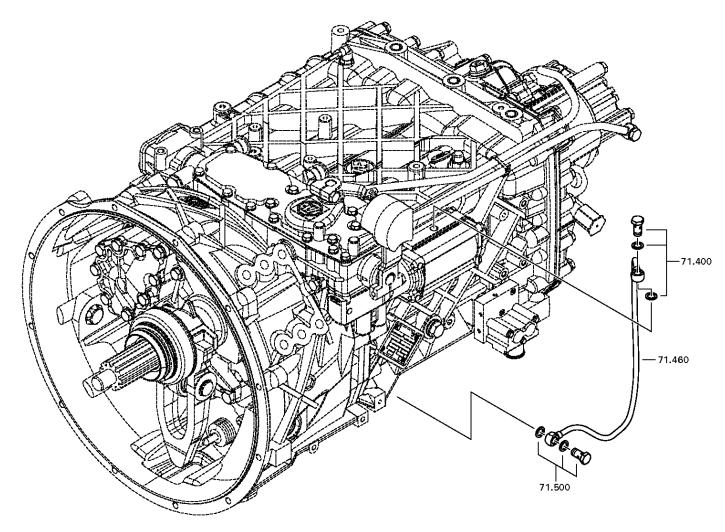


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Material number: 1342.002.087

Plant: 068.08.28-1 END COVER



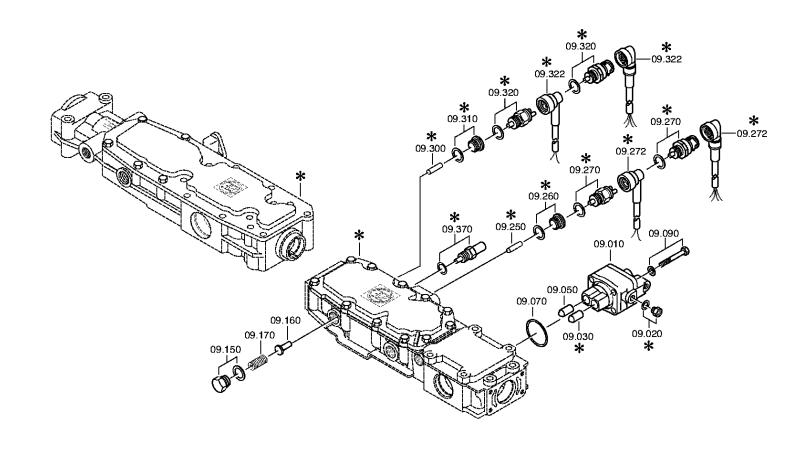


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Material number: 1342.002.087

Plant: 068.09.01-1 CONNECTING PARTS



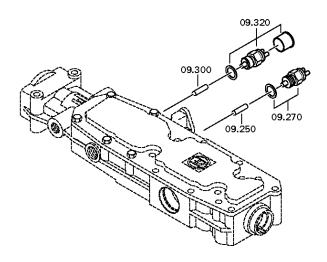


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Material number: 1342.002.087

Plant: 068.09.11-1 CONNECTING PARTS



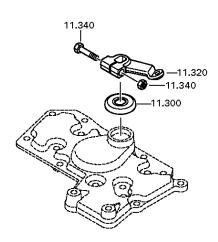


Page 1 from 2

Material number: 1342.002.087

Plant: 068.10.89-1 SELECTOR LEVER



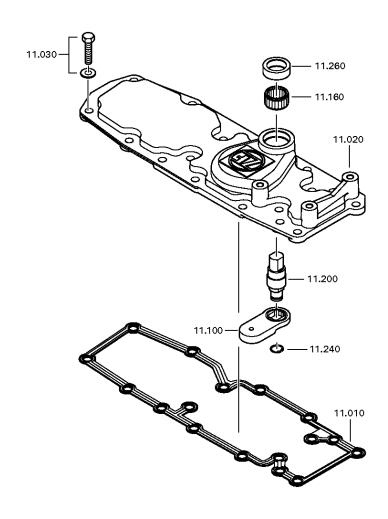


Page 2 from 2

Material number: 1342.002.087

Plant: 068.10.13-1 SELECTOR LEVER





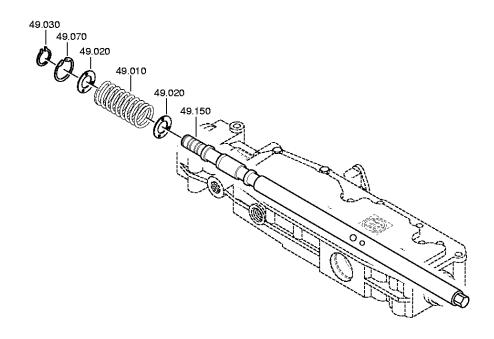
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Material number: 1342.002.087

Plant: 068.12.12-1

Material-assembly-group-no: 1316.149.461



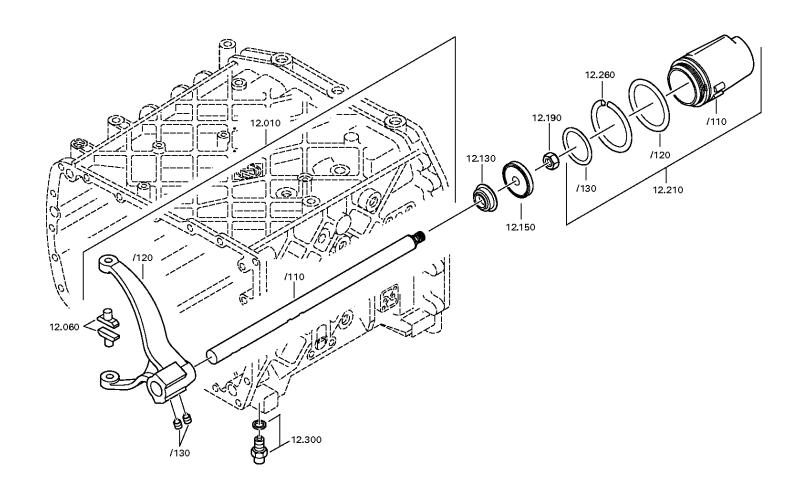


Page 1 from 2

Material number: 1342.002.087

Plant: 068.40.04-1 GV-SHIFT SYSTEM



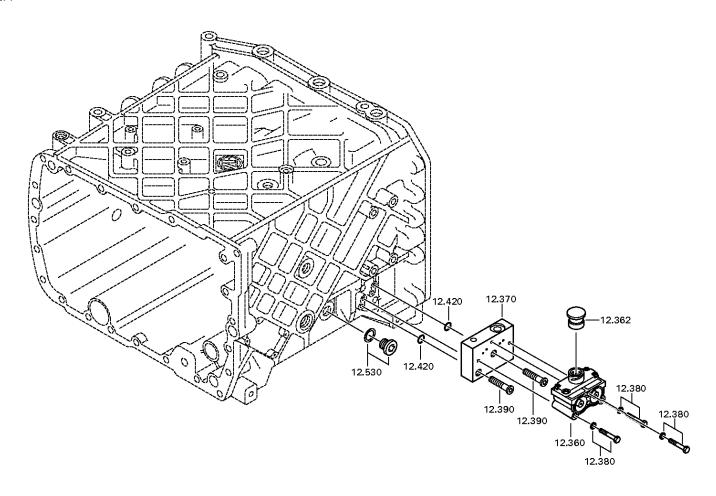


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Material number: 1342.002.087

Plant: 068.40.02-1 GV-SHIFT SYSTEM



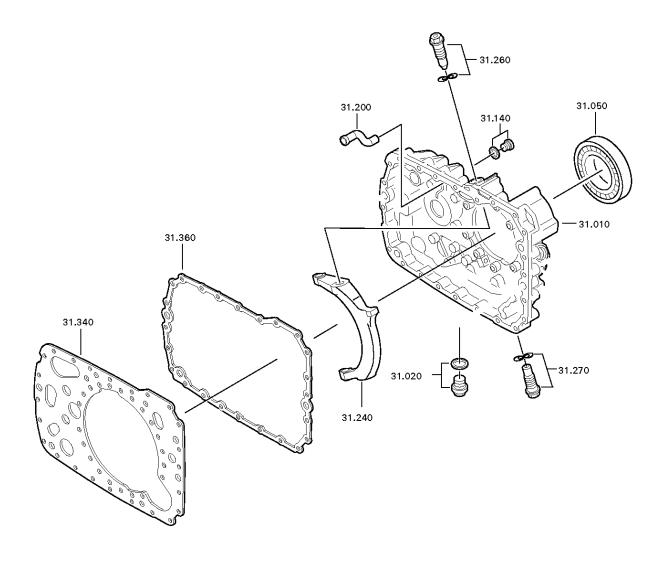


Page 1 from 4

Material number: 1342.002.087

Plant: 068.43.02-1 RC HOUSING



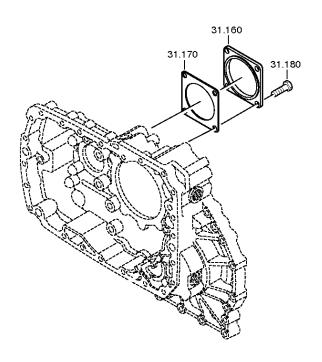


Page 2 from 4

Material number: 1342.002.087

Plant: 068.43.40-1 RC HOUSING



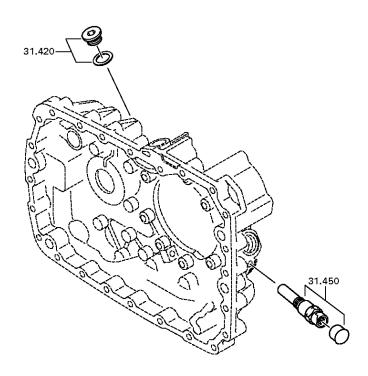


Page 3 from 4

Material number: 1342.002.087

Plant: 068.43.43-1 RC HOUSING



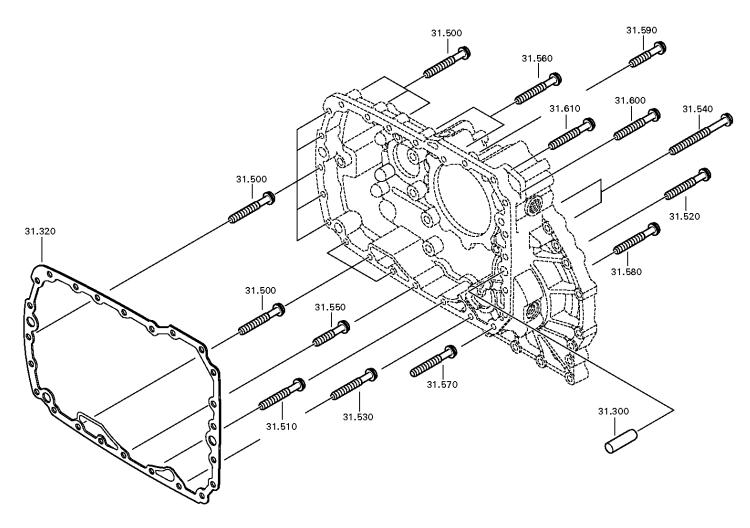


Page 4 from 4

Material number: 1342.002.087

Plant: 068.43.80-1 RC HOUSING





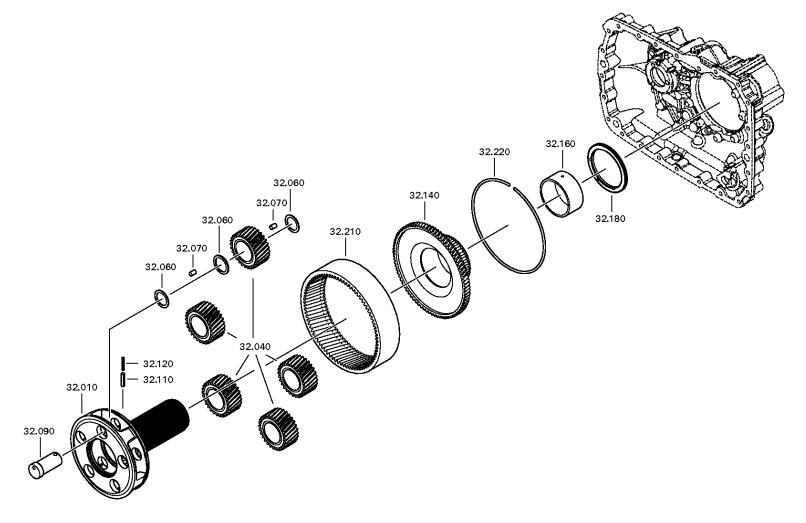
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Material number: 1342.002.087

Plant: 068.44.07-1

Material-assembly-group-no: 1315.132.015



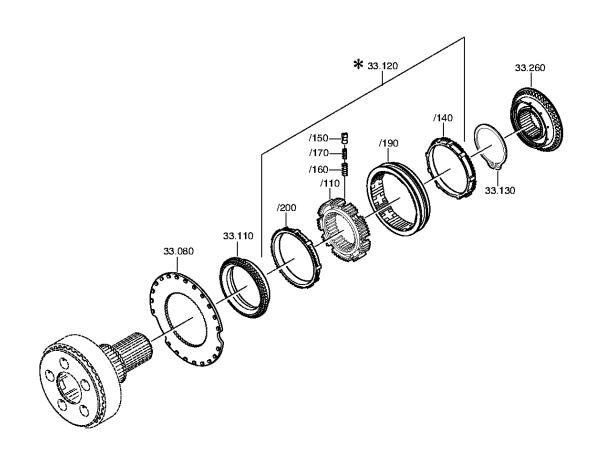


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Material number: 1342.002.087

Plant: 068.45.04-1 SYNCHRONIZER



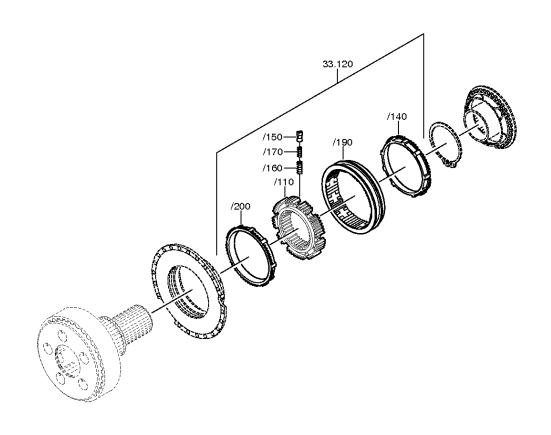


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Material number: 1342.002.087

Plant: 068.45.40-1 SYNCHRONIZER



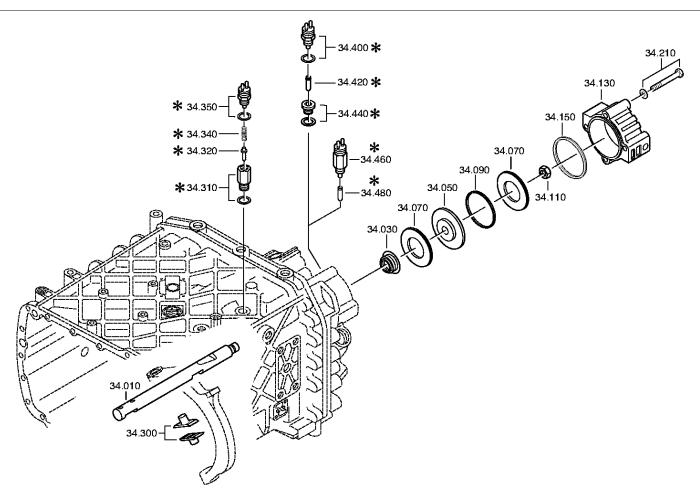


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Material number: 1342.002.087

Plant: 068.46.02-1 GP SHIFT SYSTEM



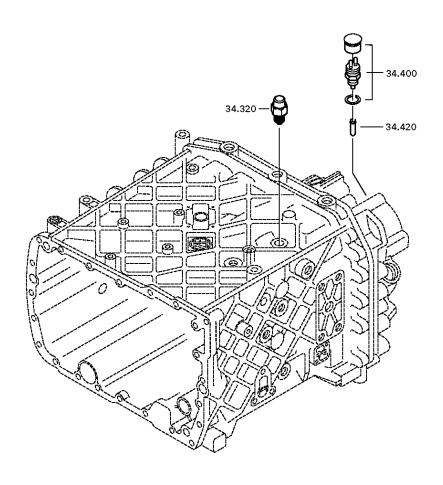


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Material number: 1342.002.087

Plant: 068.46.40-1 GP SHIFT SYSTEM





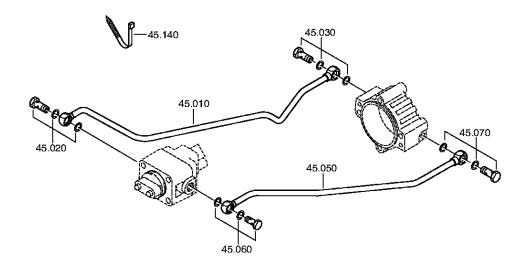
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Material number: 1342.002.087

Plant: 068.57.04-1

Material-assembly-group-no: 1316.145.002





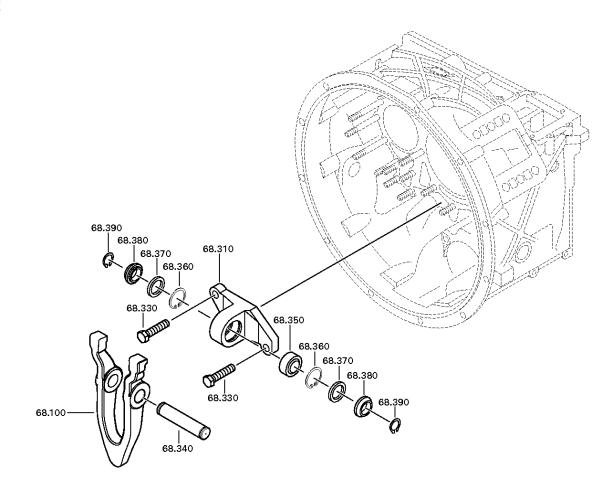
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Material number: 1342.002.087

Plant: 068.93.95-1

**CLUTCH RELEASE DEVICE** 





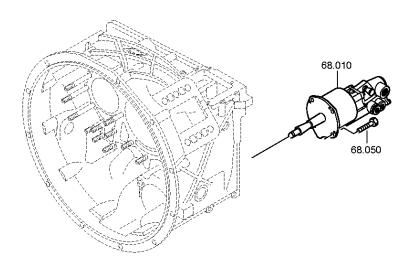
Page 2 from 2

Material number: 1342.002.087

Plant: 068.93.28-1

**CLUTCH RELEASE DEVICE** 



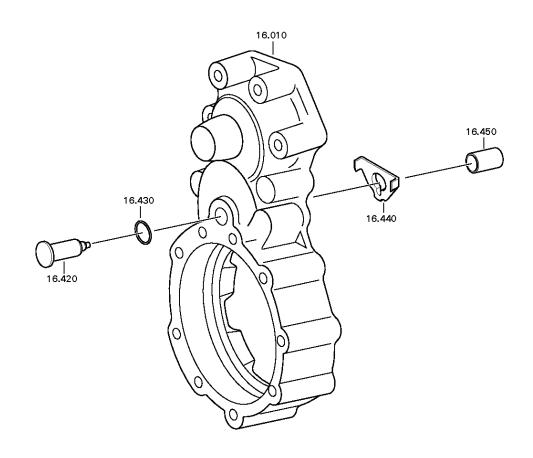


Page 1 from 5

Material number: 6091.016.014

Plant: 068.74.60 HOUSING



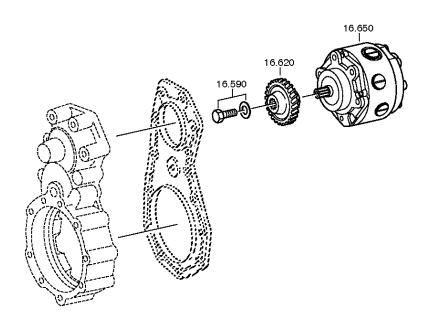


Page 2 from 5

Material number: 6091.016.014

Plant: 068.74.13 HOUSING





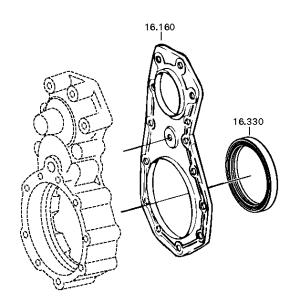
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Material number: 6091.016.014

Plant: 068.74.58-1

HOUSING





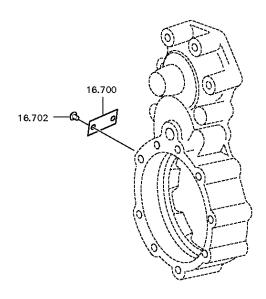
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Material number: 6091.016.014

Plant: 068.74.59-1

HOUSING





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Material number: 6091.016.014

Plant: 068.74.80 HOUSING



