



Spare Parts Catalog

16 S 2531 TO

Material number: 1356.080.043

Current date: 09.08.2016

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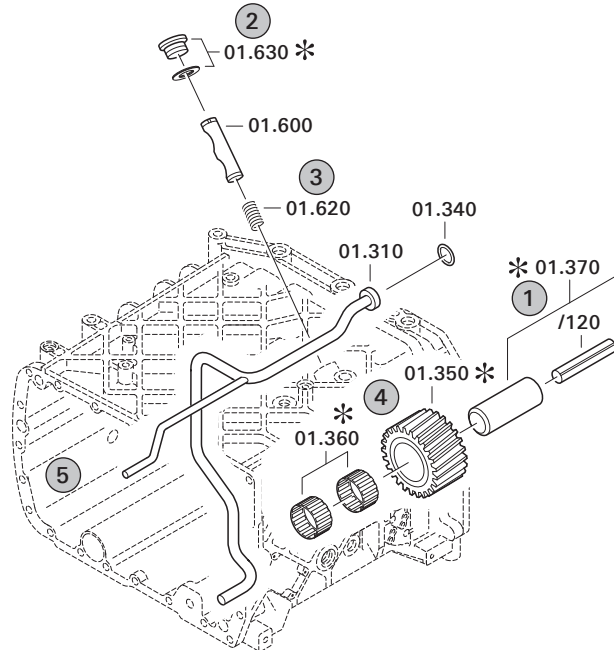
zuständiges Werk:
Friedrichshafen

Notes relating to the spare parts catalog

Setup of the spare parts catalog

- Cover sheet
- Technical 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
068.08.14	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)	Technische Info Technical info	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

Pos.	Sachnummer Product number	Benennung (Description)	Technische Info Technical info	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)	Technische Info Technical info	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 distinta base

5 Parts, dotted display

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

Assembly group overview

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Material number: 1356.080.043



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Graphics	Pos.	Material number	Name	Quantity	Amend. no.	Techn. Info.
	988	1356.177.010	ACCESSORIES	1		
	910	1356.051.323	16 S 2531 TO	1		

Parts list

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Material number: 1356.080.043

16 S 2531 TO /

Material-assembly-group-no: 1356.177.010

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	6005.300.639		SHIFT LEVER	1		Z00033730010			
20	---		BOLT+NUT	1			M10X65		
---	0636.100.713		HEXAGON SCREW	1		Z00007890810	M10X65		
---	0637.100.419		HEXAGON NUT	1		Z00007892710	M10		
30	1297.307.326		SELECTOR LEVER	1			R65		
40	---		BOLT+NUT	1			M10X50		
---	0636.011.756		HEXAGON SCREW	1			M10X50		
---	0637.100.419		HEXAGON NUT	1		Z00007892710	M10		
202	0666.690.171		ADHESIVE	15		Z00034267711			
230	---		UNION SCREW	1					
---	0737.300.028		UNION SCREW	1					
---	0634.801.331		SEALING RING	1			12X18		
250	0730.365.303		WARNING PLATE	2		Z00034267711			

Assembly group overview

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Material number: 1356.051.323



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Graphics	Pos.	Material number	Name	Quantity	Amend. no.	Techn. Info.
	910	1356.007.165	16 S 253 TO IT	1		
155.A1.03-1	922	6093.050.070	IT 3 ECOSPLIT T	1		
155.E1.05-1	924	6093.101.805	ANCHORAGE	1		

Plant

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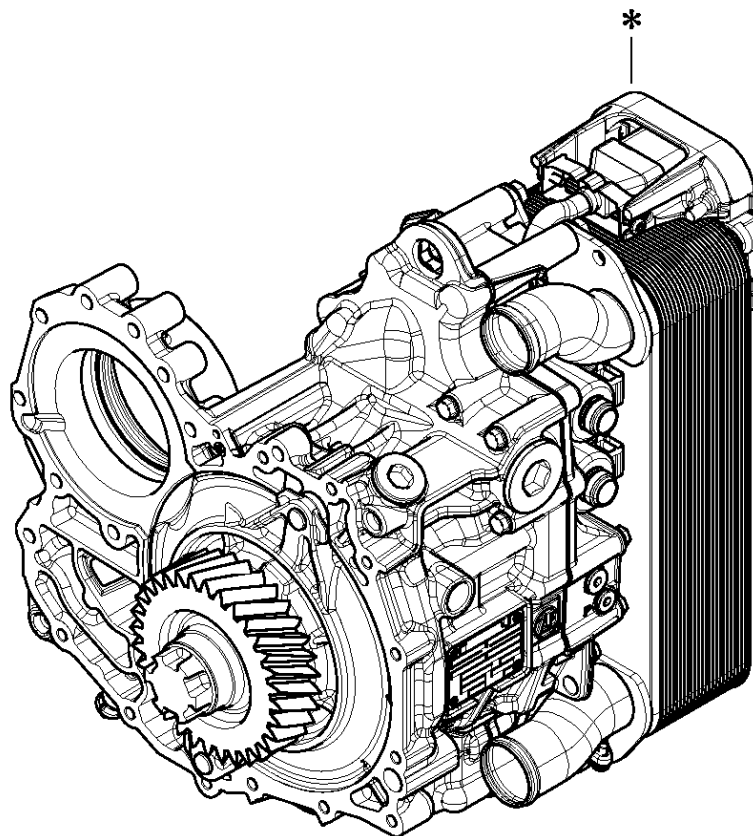
Material number: 1356.051.323

Plant: 155.A1.03-1

Material-assembly-group-no: 6093.050.070



16 S 2531 TO /
IT 3 ECOSPLIT T



Plant

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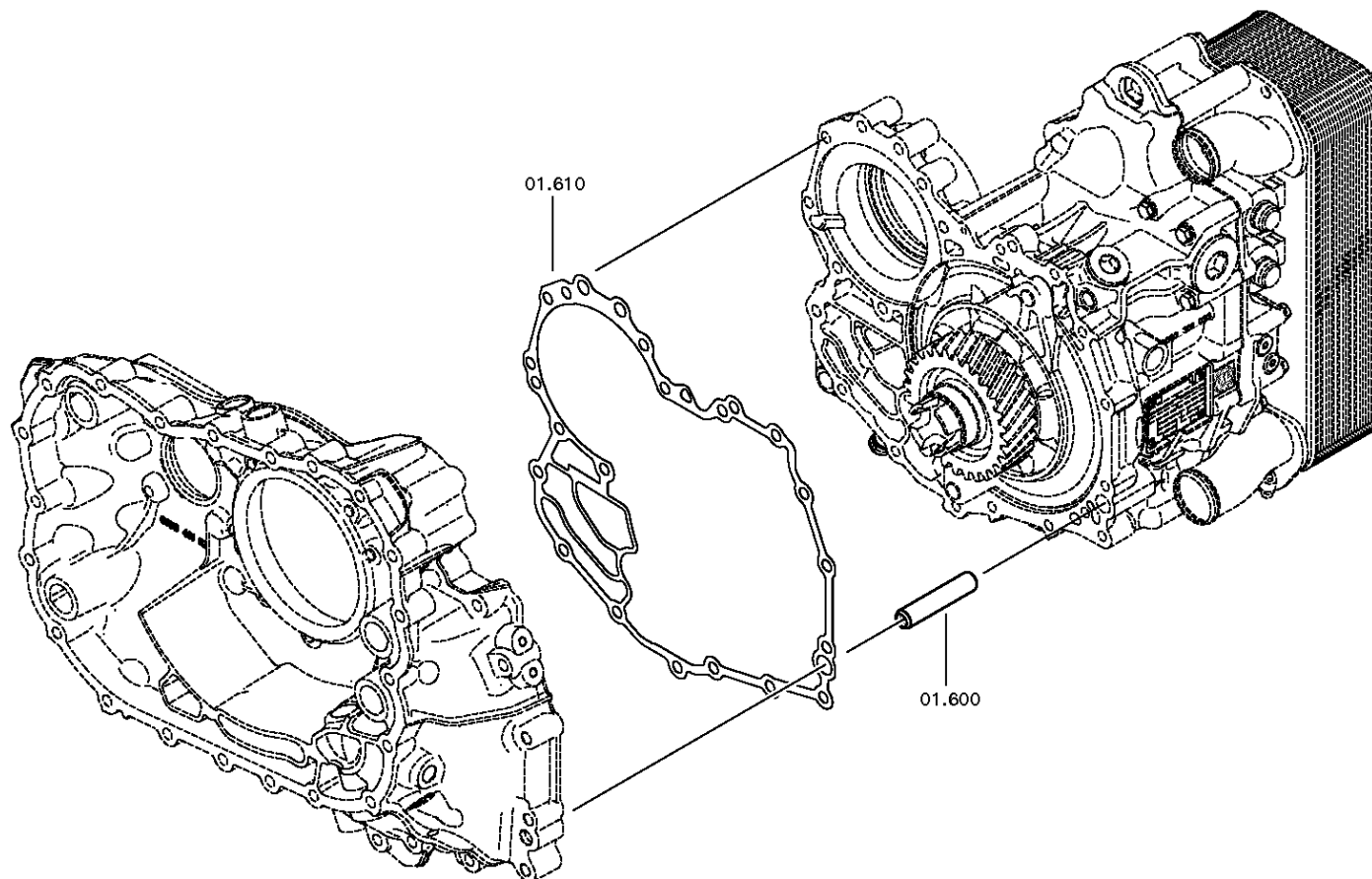
Material number: 1356.051.323

Plant: 155.E1.05-1

Material-assembly-group-no: 6093.101.805



16 S 2531 TO /
ANCHORAGE



Plant

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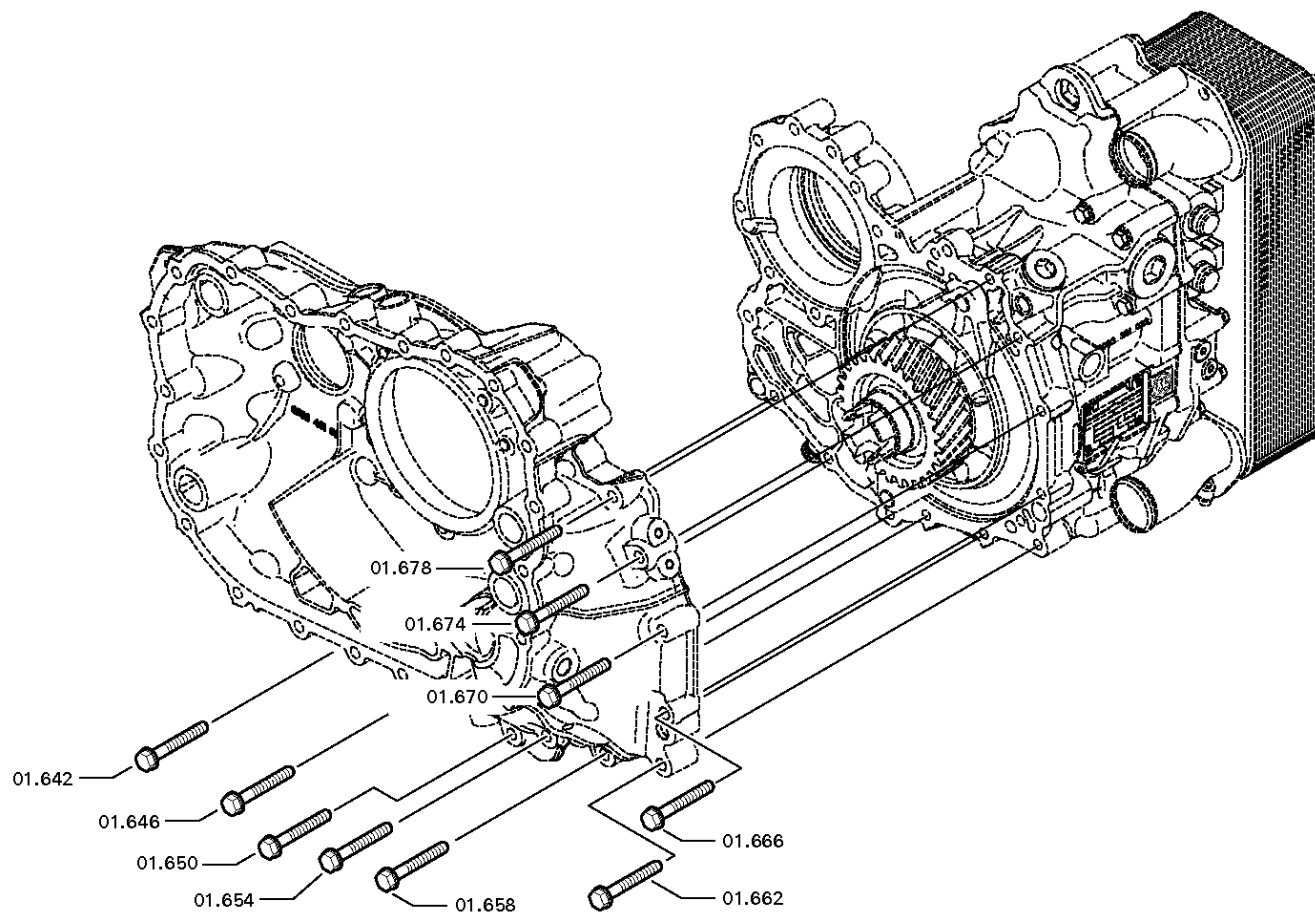
Material number: 1356.051.323

Plant: 155.E1.05-2

Material-assembly-group-no: 6093.101.805



16 S 2531 TO /
ANCHORAGE



Plant

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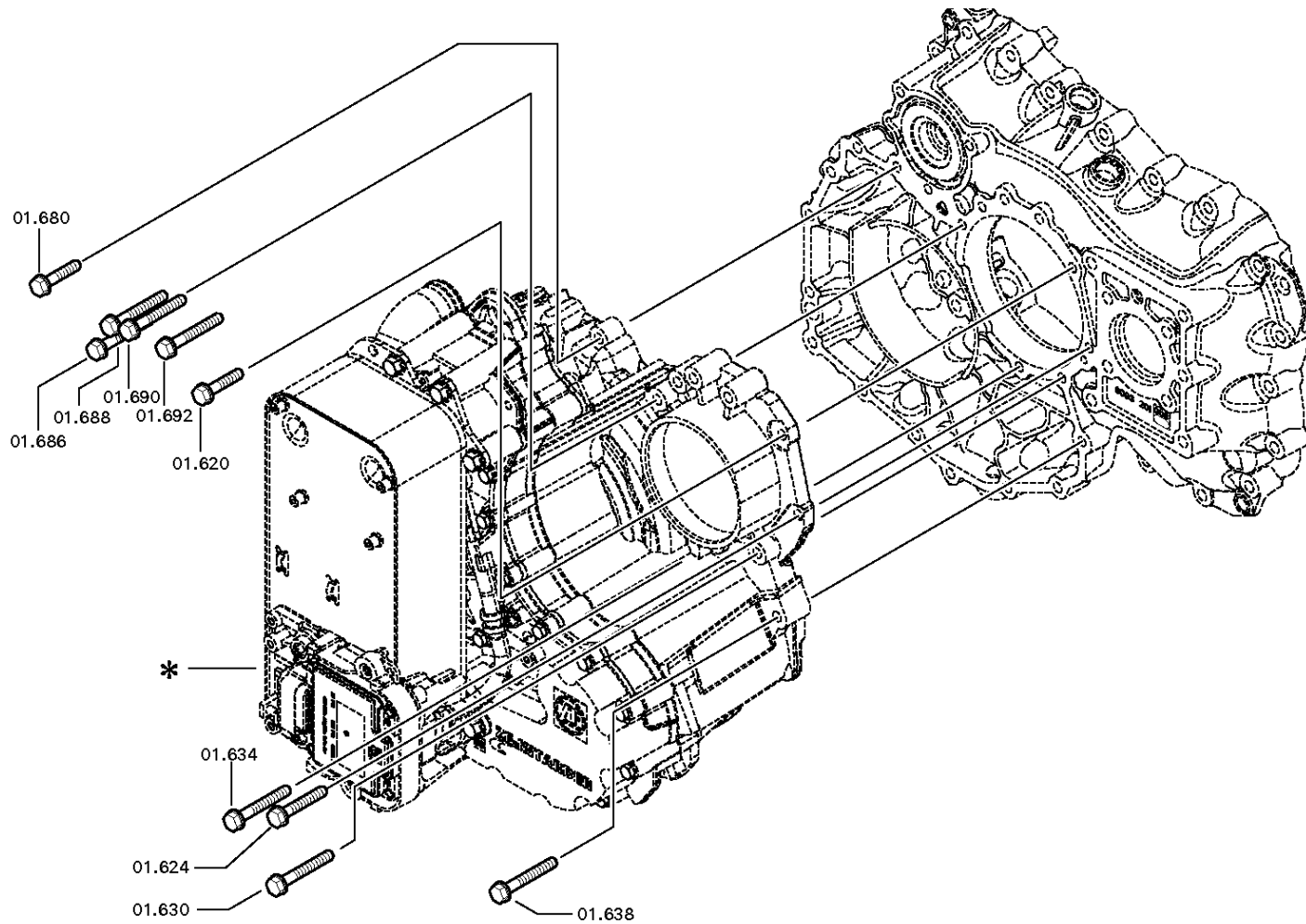
Material number: 1356.051.323

Plant: 155.E1.05-3

Material-assembly-group-no: 6093.101.805



16 S 2531 TO /
ANCHORAGE



Parts list

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Material number: 1356.051.323

Plant: 155.E1.05-1

Material-assembly-group-no: 6093.101.805

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
600	0731.201.563		CYLINDRICAL PIN	1					
610	0501.331.587		GASKET	1			INDARDER IT3		
620	0636.100.433		HEXAGON SCREW	1		Z00009178010	M10X40		
624	0636.100.433		HEXAGON SCREW	1		Z00009178010	M10X40		
630	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
634	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
638	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
642	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
646	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
650	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
654	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
658	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
662	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
666	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
670	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
674	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
678	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
680	0636.100.433		HEXAGON SCREW	1		Z00009178010	M10X40		
686	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
688	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
690	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
692	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		

Assembly group overview

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Material number: 1356.007.165

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Graphics	Pos.	Material number	Name	Quantity	Amend. no.	Techn. Info.
161.01.09-1	110	1356.101.004	TRANSMISSION HOUSING	1		
161.01.81-1	180	1325.101.810	CLUTCH HOUSING	1		
161.02.05-1	10	1356.102.017	INPUT SHAFT	1		
161.02.80-1	240	1325.102.802	CONNECTION PLATE	1		
161.02.01-1	910	1325.102.018	CONNECTION PLATE	1		
068.03.01-1	20	1316.103.013	COUNTERSHAFT	1		
161.04.12-1	30	1356.104.027	MAIN SHAFT	1		
161.05.01-1	130	1325.105.002	RETURN	1		
161.06.04-1	40	1356.106.003	TRANSMISSION SHIFT SYSTEM	1		
161.06.02-1	44	1325.106.803	TRANSMISSION SHIFT SYSTEM	1		
068.07.81-1	460	1316.108.817	GEAR SHIFT HOUSING	1		
068.07.38-1	910	1316.108.075	GEAR SHIFT HOUSING	1		
068.07.25-1	914	1316.108.459	GEARSHIFT SHAFT	1		
068.07.75-1	924	1316.108.070	DETENT	1		
062.08.30-1	954	1316.171.403	END COVER	1		
068.08.45-1	960	1316.171.430	PNEUMATIC SERVO UNIT	1		
068.09.01-1	934	1316.109.052	CONNECTING PARTS	1		
068.09.11-1	940	1316.109.433	CONNECTING PARTS	1		
161.10.04-1	200	1356.110.002	OIL SUPPLY	1		
161.10.01-1	920	1325.110.005	PUMP	1		
068.10.02-1	932	1316.111.011	SELECTOR LEVER	1		
068.10.04-1	466	1341.111.809	SELECTOR LEVER	1		
068.12.08-1	918	1316.149.478	SET OF SPRINGS	1		
161.28.01-1	370	1325.128.807	PLANETARY RANGE	1		
161.40.01-1	50	1356.112.001	GV-SHIFT SYSTEM	1		
161.40.80-1	340	1325.112.817	GV-SHIFT SYSTEM	1		
161.43.02-1	40	1325.131.018	RC HOUSING	1		
161.43.40-1	50	1325.131.401	CLOSING COMPONENTS	1		
161.44.04-1	10	1325.132.005	PLANETARY DRIVE	1		
161.44.41-1	60	1325.132.415	OUTPUT FLANGE	1		
161.45.03-1	20	1325.133.007	SYNCHRONIZER	1		
161.46.01-1	30	1325.134.007	GP SHIFT SYSTEM	1		

Assembly group overview

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Material number: 1356.007.165

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Graphics	Pos.	Material number	Name	Quantity	Amend. no.	Techn. Info.
161.46.40-1	400	1325.134.404	SWITCH	1		
161.57.04-1	510	1325.145.007	RANGE SELECTION	1		
161.70.05-1	480	1356.170.003	SHUT-OFF VALVE	1		
161.90.08	320	1325.147.009	SCREW PLUG	1		
161.93.76-1	260	1325.168.011	CLUTCH RELEASE DEVICE	1		
161.93.17-1	262	1315.301.230	PROTECTION CAP	1		

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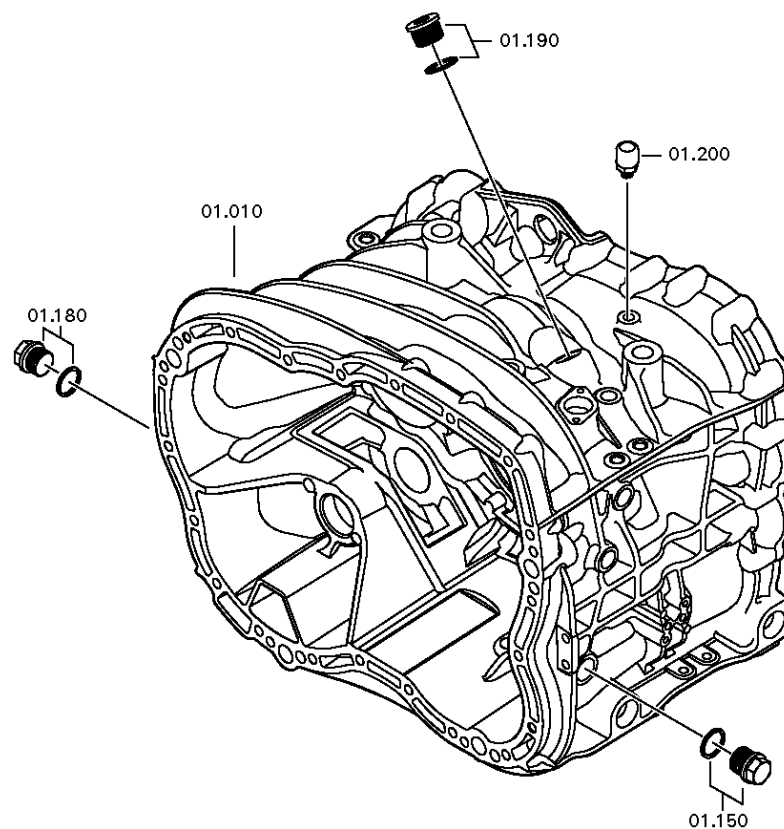
Material number: 1356.007.165

Plant: 161.01.09-1

TRANSMISSION HOUSING



16 S 2531 TO /
TRANSMISSION HOUSING



Plant

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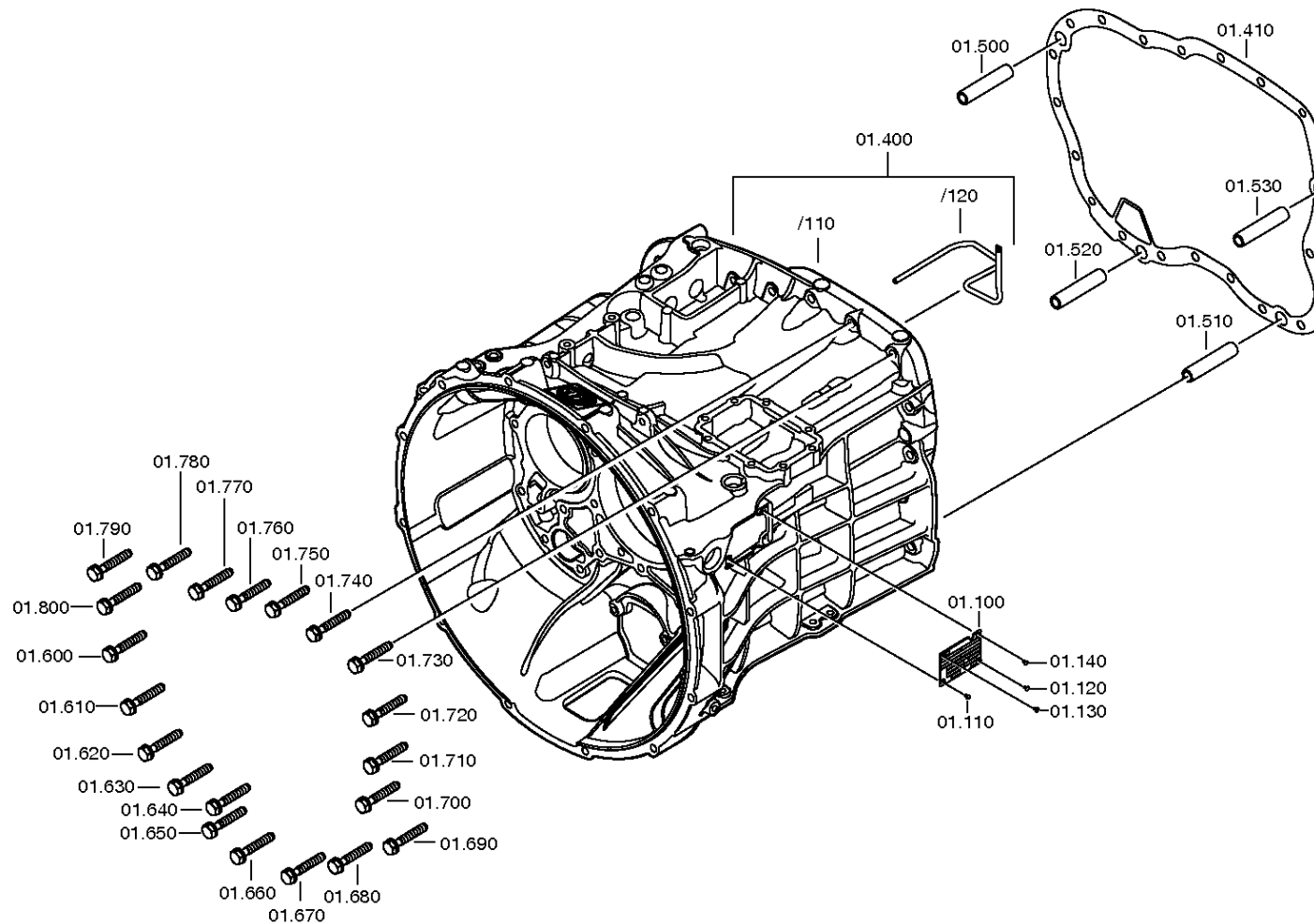
Material number: 1356.007.165

Plant: 161.01.81-1

TRANSMISSION HOUSING



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TRANSMISSION HOUSING



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Material number: 1356.007.165

Plant: 161.01.09-1

Material-assembly-group-no: 1356.101.004

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	1325.201.031		TRANSMISSION HOUSING	1		Z00008470912	KPL.BEARBEITET*GP-ANZ		
100	---		TYPE PLATE	1			KONZERN		
---	0730.365.241		TYPE PLATE	1			EINHEITSSCH. VERDREHSICHER		
---	0730.365.259		TYPE PLATE	1			EINHEITSSCH.VERDREHSICHER BRASILien		
---	0730.365.267		TYPE PLATE	1			CHINA		
---	0730.300.258		TYPE PLATE	1			EINHEITSSCH.VERDREHSICHER		
---	0730.365.271		TYPE PLATE	1			RUSSLAND/ KYRILLISCH		
---	0730.365.257		TYPE PLATE	1			S.S.CH IRAN		
---	0730.365.800		TYPE PLATE	1		Z00015972510			
---	0730.302.754		TYPE PLATE	1			AUSFUEHRUNG UNIVERSAL		
110	0731.300.027		BLIND RIVET	1		Z00007904810			
120	0731.300.027		BLIND RIVET	1		Z00007904810			
130	0731.300.027		BLIND RIVET	1		Z00007904810			
140	0731.300.027		BLIND RIVET	1		Z00007904810			
150	---		SCREW PLUG	1		Z00010112111	60N.M*DICHTRING M24X1,5		
---	0636.304.088		SCREW PLUG	1		Z00010112110	M24X1,5		
---	0730.008.637		SEALING RING	1		Z00010112110	24X29		
180	---		SCREW PLUG	1		Z00010112111	60N.M*DICHTRING M24X1,5		
---	0636.304.088		SCREW PLUG	1		Z00010112110	M24X1,5		
---	0730.008.637		SEALING RING	1		Z00010112110	24X29		
190	---		SCREW PLUG	1		Z00010164412	70N.M*DICHTRING M26X1,5		
---	0636.100.811		SCREW PLUG	1		Z00010164420	M26X1,5		
---	0634.801.249		SEALING RING	1		Z00010164420	26X31		
200	0501.218.540		BREATHER	1					
400	1325.201.025		CLUTCH HOUSING	1			SAE D=11*ABSTZG.2X D= 9*UNBEARB.SENSOR/GV/M8/ SCHUTZBL/LEITG		
410	0501.322.776		GASKET	1					
500	0731.201.563		CYLINDRICAL PIN	1					
510	0731.201.563		CYLINDRICAL PIN	1					
520	0731.201.563		CYLINDRICAL PIN	1					
530	0731.201.563		CYLINDRICAL PIN	1					
600	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		

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Material number: 1356.007.165

Plant: 161.01.09-1

Material-assembly-group-no: 1356.101.004

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
610	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
620	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
630	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
640	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
650	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
660	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
670	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
680	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
690	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
700	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
710	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
720	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
730	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
740	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
750	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
760	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
770	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
780	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
790	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
800	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		

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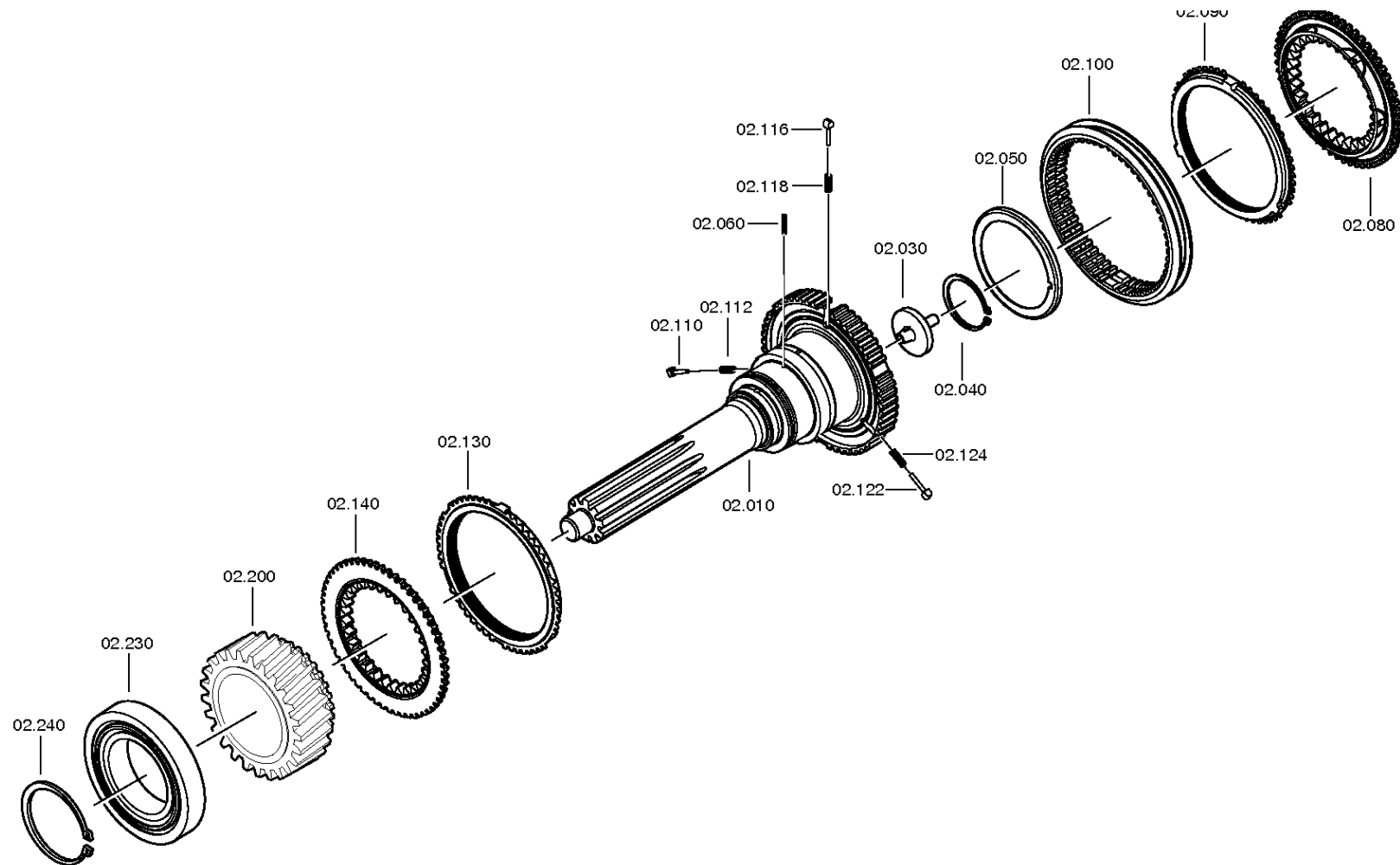
Material number: 1356.007.165

Plant: 161.02.05-1

INPUT SHAFT



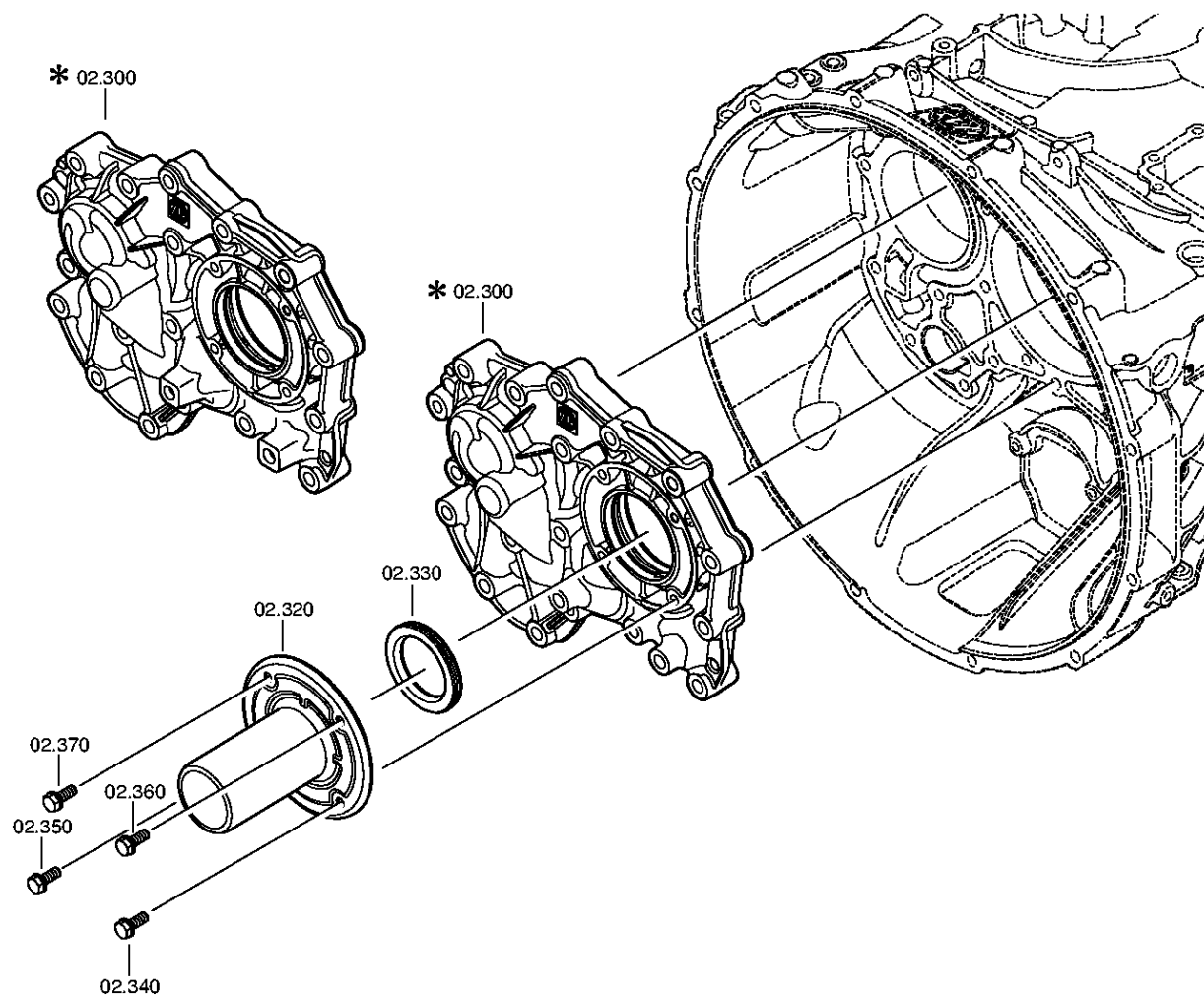
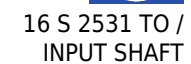
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INPUT SHAFT



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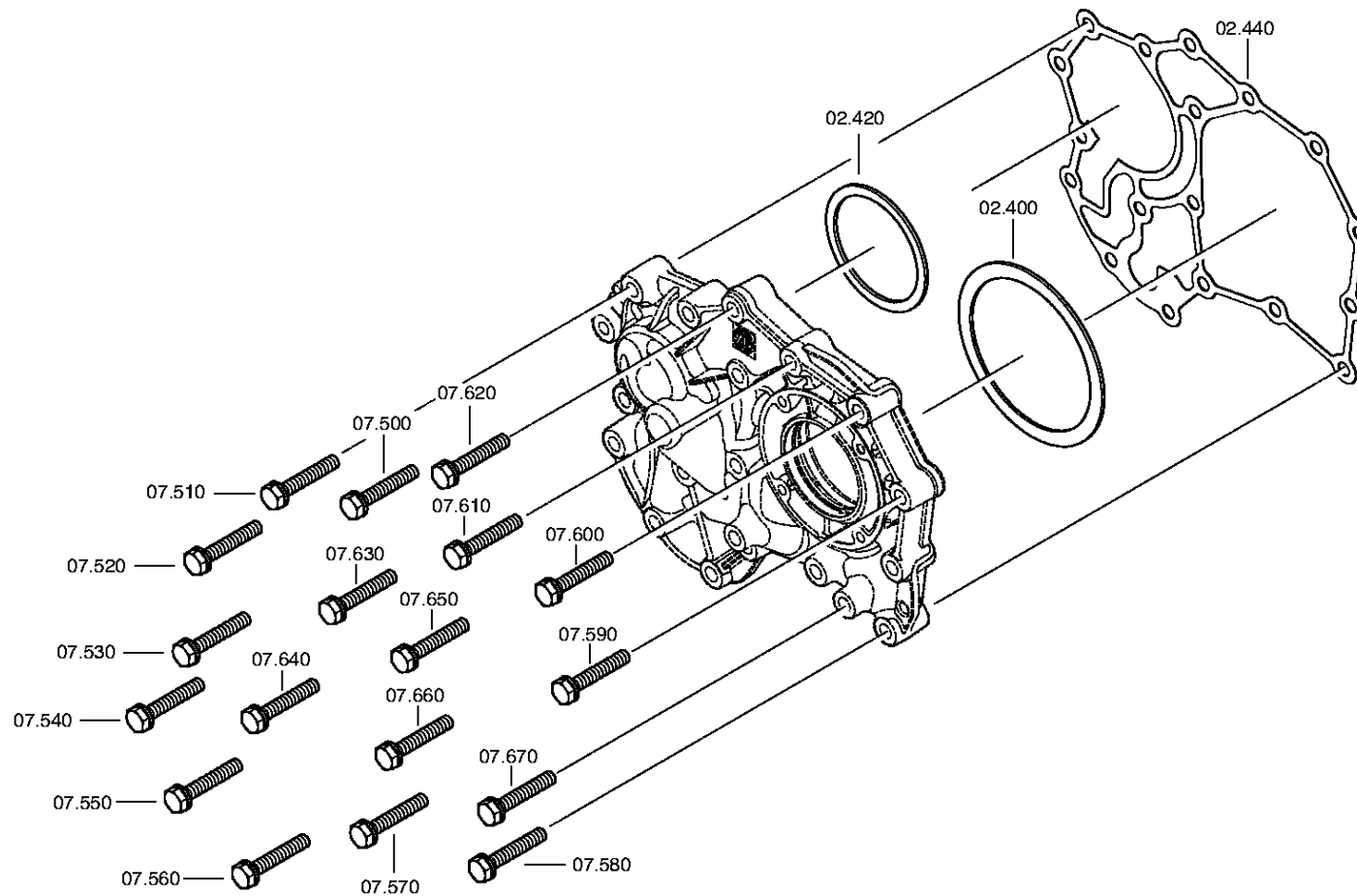
Material number: 1356.007.165

Plant: 161.02.80-1

INPUT SHAFT



16 S 2531 TO /
INPUT SHAFT



Parts list

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Material number: 1356.007.165

Plant: 161.02.05-1

Material-assembly-group-no: 1356.102.017

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	1356.302.103		INPUT SHAFT	1					
30	1354.302.019		TUBE	1					
40	0630.502.027		RETAINING RING	1			50X2		
60	0631.328.659		SLOTTED PIN	1			4X30		
80	1297.304.523		CLUTCH BODY	1			ZF BK144		
90	---		SYNCHRO.RING	1			ZF-BK144*ZFF*LOKAL HNG		
100	1297.304.516		SLIDING SLEEVE	1			ZF BK150		
110	1297.304.436		PRESSURE PART	1					
112	0732.040.409		COMPRESSION SPRING	1					
116	1297.304.436		PRESSURE PART	1					
118	0732.040.409		COMPRESSION SPRING	1					
122	1297.304.436		PRESSURE PART	1					
124	0732.040.409		COMPRESSION SPRING	1					
130	---		SYNCHRO.RING	1			ZF-BK144*ZFF*LOKAL HNG		
140	1297.304.523		CLUTCH BODY	1			ZF BK144		
200	1316.302.067		HELICAL GEAR	1			Z35 IN 1316 302 026(1)		
230	0750.117.732		TAPERED ROLLER BEARING	1			85,0X150,0X30,5		
240	0730.501.598		RETAINING RING	1			85X4		
300	1325.302.055		CONNECTION PLATE	1		Z00013937810			
320	1325.302.029		GUIDE TUBE	1		Z00013937810			
330	---		SHAFT SEAL	1		Z00013937810	55X78X8		
---	0734.310.435		SHAFT SEAL	1			55X78X8 FA.CFW		
340	0636.100.466		SCREW WITH WASHER ASSEMBLY	1		Z00009178210	M8X22		
350	0636.100.466		SCREW WITH WASHER ASSEMBLY	1		Z00009178210	M8X22		
360	0636.100.466		SCREW WITH WASHER ASSEMBLY	1		Z00009178210	M8X22		
370	0636.100.466		SCREW WITH WASHER ASSEMBLY	1		Z00009178210	M8X22		
400	---		SHIM	1			H= 0,90- 2,40(ABSTUFUNG:0,05MM)		
---	2050.309.094		SHIM	1			A=2,2 IN 2050 309 090 C45E WW.F500 ZFN410		
---	0730.007.489		SHIM	1			A=2,15 IN 2050 309 090(2)		

Parts list

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Material number: 1356.007.165

Plant: 161.02.05-1

Material-assembly-group-no: 1356.102.017

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
---	0730.007.488		SHIM	1			A=2,10 IN 2050 309 090(2)		
---	0730.007.487		SHIM	1			A=2,05 IN 2050 309 090(2)		
---	0730.007.486		SHIM	1			A=2,00 IN 2050 309 090(2)		
---	0730.007.485		SHIM	1			A=1,95 IN 2050 309 090(2)		
---	0730.007.484		SHIM	1			A=1,90 IN 2050 309 090(2)		
---	0730.007.483		SHIM	1			A=1,85 IN 2050 309 090(2)		
---	0730.007.482		SHIM	1			A=1,80 IN 2050 309 090(2)		
---	0730.007.481		SHIM	1			A=1,75 IN 2050 309 090(2)		
---	0730.007.480		SHIM	1			A=1,70 IN 2050 309 090(2)		
---	0730.007.479		SHIM	1			A=1,65 IN 2050 309 090(2)		
---	0730.007.136		SHIM	1			A=1,60 IN 2050 309 090(2)		
---	0730.007.135		SHIM	1			A=1,55 IN 2050 309 090(2)		
---	0730.007.134		SHIM	1			A=1,50 IN 2050 309 090(2)		
---	0730.007.133		SHIM	1			A=1,45 IN 2050 309 090(2)		
---	0730.007.132		SHIM	1			A=1,40 IN 2050 309 090(2)		
---	0730.007.131		SHIM	1			A=1,35 IN 2050 309 090(2)		
---	0730.007.130		SHIM	1			A=1,30 IN 2050 309 090(2)		
---	0730.007.129		SHIM	1			A=1,25 IN 2050 309 090(2)		
---	2050.309.034		SHIM	1			A=1,2 IN 2050 309 090 C45E WW.F500 ZFN410		
---	0730.007.128		SHIM	1			A=1,15 IN 2050 309 090(2)		
---	0730.007.127		SHIM	1			A=1,10 IN 2050 309 090(2)		
---	0730.007.126		SHIM	1			A=1,05 IN 2050 309 090(2)		
---	2050.309.065		SHIM	1			A=1,0 IN 2050 309 090 C45E WW.F500 ZFN410		
---	0730.005.749		SHIM	1			A=0,95 IN 2050 309 090(2)		
---	0730.005.748		SHIM	1			A=0,90 IN 2050 309 090(2)		
---	0730.301.503		SHIM	1			h=2,25		
---	0730.301.504		SHIM	1			h=2,30		
---	0730.301.505		SHIM	1			h=2,35		
---	0730.301.506		SHIM	1			h=2,40		
420	---		SHIM	1			H= 1,85- 3,25(ABSTUFUNG:0,05MM)		
---	0730.112.938		SHIM	1		C01007375C10	A=3,25		
---	0730.112.937		SHIM	1		C01007375C10	A=3,20		

Parts list

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Material number: 1356.007.165

Plant: 161.02.05-1

Material-assembly-group-no: 1356.102.017

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
---	0730.112.936		SHIM	1		C01007375C10	A=3,15		
---	0730.112.935		SHIM	1		C01007375C10	A=3,10		
---	0730.106.860		SHIM	1		C01007375C10	A=3,05 IN 0730 106 904(2)		
---	0730.106.917		SHIM	1			A=3,00 IN 0730 106 904(2)		
---	0730.106.916		SHIM	1			A=2,95 IN 0730 106 904(2)		
---	0730.106.915		SHIM	1			A=2,90 IN 0730 106 904(2)		
---	0730.106.914		SHIM	1			A=2,85 IN 0730 106 904(2)		
---	0730.106.913		SHIM	1			A=2,80 IN 0730 106 904(2)		
---	0730.106.912		SHIM	1			A=2,75 IN 0730 106 904(2)		
---	0730.106.911		SHIM	1			A=2,70 IN 0730 106 904(2)		
---	0730.106.910		SHIM	1			A=2,65 IN 0730 106 904(2)		
---	0730.106.909		SHIM	1			A=2,60 IN 0730 106 904(2)		
---	0730.106.908		SHIM	1			A=2,55 IN 0730 106 904(2)		
---	0730.100.799		SHIM	1			A=2,50 IN 0730 106 904(2)		
---	0730.100.800		SHIM	1			A=2,45 IN 0730 106 904(2)		
---	0730.100.801		SHIM	1			A=2,40 IN 0730 106 904(2)		
---	0730.100.802		SHIM	1			A=2,35 IN 0730 106 904(2)		
---	0730.100.803		SHIM	1			A=2,30 IN 0730 106 904(2)		
---	0730.101.466		SHIM	1			A=2,25 IN 0730 106 904(2)		
---	0730.101.467		SHIM	1			A=2,20 IN 0730 106 904(2)		
---	0730.101.468		SHIM	1			A=2,15 IN 0730 106 904(2)		
---	0730.101.469		SHIM	1			A=2,10 IN 0730 106 904(2)		
---	0730.101.470		SHIM	1			A=2,05 IN 0730 106 904(2)		
---	0730.101.471		SHIM	1			A=2,00 IN 0730 106 904(2)		
---	0730.106.907		SHIM	1			A=1,95 IN 0730 106 904(2)		
---	0730.106.906		SHIM	1			A=1,90 IN 0730 106 904(2)		
---	0730.106.905		SHIM	1			A=1,85 IN 0730 106 904(2)		
440	0501.324.454		GASKET	1		C01005568F10			
500	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
510	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
520	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
530	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
540	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
550	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		

Parts list

Page 4 from 4



Material number: 1356.007.165

Plant: 161.02.05-1

Material-assembly-group-no: 1356.102.017

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
560	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
570	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
580	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
590	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
600	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
610	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
620	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
630	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
640	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
650	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
660	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		
670	0636.102.270		HEXAGON SCREW	1		Z00009177410	M10X60		

Plant

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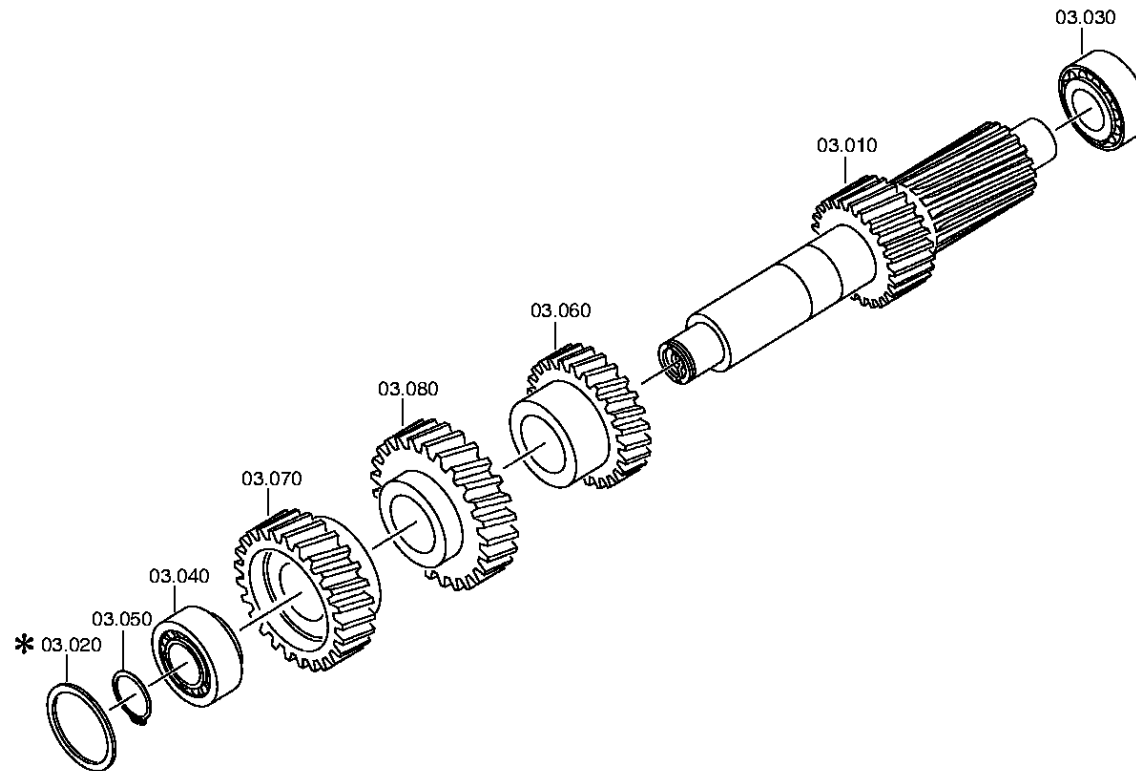
Material number: 1356.007.165

Plant: 068.03.01-1

Material-assembly-group-no: 1316.103.013



16 S 2531 TO /
COUNTERSHAFT



Parts list

Page 1 from 1



Material number: 1356.007.165

Plant: 068.03.01-1

Material-assembly-group-no: 1316.103.013

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	1316.303.033		COUNTERSHAFT	1			ENTHALT.IN 1316 303 032(0)		
30	0750.117.009		TAPERED ROLLER BEARING	1			49,213x103,188x44,475		
40	0750.117.009		TAPERED ROLLER BEARING	1			49,213x103,188x44,475		
50	---		RETAINING RING	1		Z00027144136	H= 2,40- 3,00(ABSTUFUNG:0,05MM)		
---	0730.303.174		RETAINING RING	1		Z00027144110	h=3,00		
---	0730.303.173		RETAINING RING	1		Z00027144110	h=2,95		
---	0730.303.172		RETAINING RING	1		Z00027144110	h=2,90		
---	0730.303.171		RETAINING RING	1		Z00027144110	h=2,85		
---	0730.303.170		RETAINING RING	1		Z00027144110	h=2,80		
---	0730.303.169		RETAINING RING	1		Z00027144110	h=2,75		
---	0730.303.168		RETAINING RING	1		Z00027144110	h=2,70		
---	0730.303.167		RETAINING RING	1		Z00027144110	h=2,65		
---	0730.303.166		RETAINING RING	1		Z00027144110	h=2,60		
---	0730.303.165		RETAINING RING	1		Z00027144110	h=2,55		
---	0730.302.599		RETAINING RING	1		Z00027144110	h=2,50		
---	0730.302.598		RETAINING RING	1		Z00027144110	h=2,45		
---	0730.302.597		RETAINING RING	1		Z00027144110	h=2,40		
60	1316.303.005		HELICAL GEAR	1			3G/Z26 IN 1312 303 018(1)		
70	1316.303.071		HELICAL GEAR	1			KON 1		
80	1316.303.065		HELICAL GEAR	1			Z35 IN 1312 303 013(1)		

Plant

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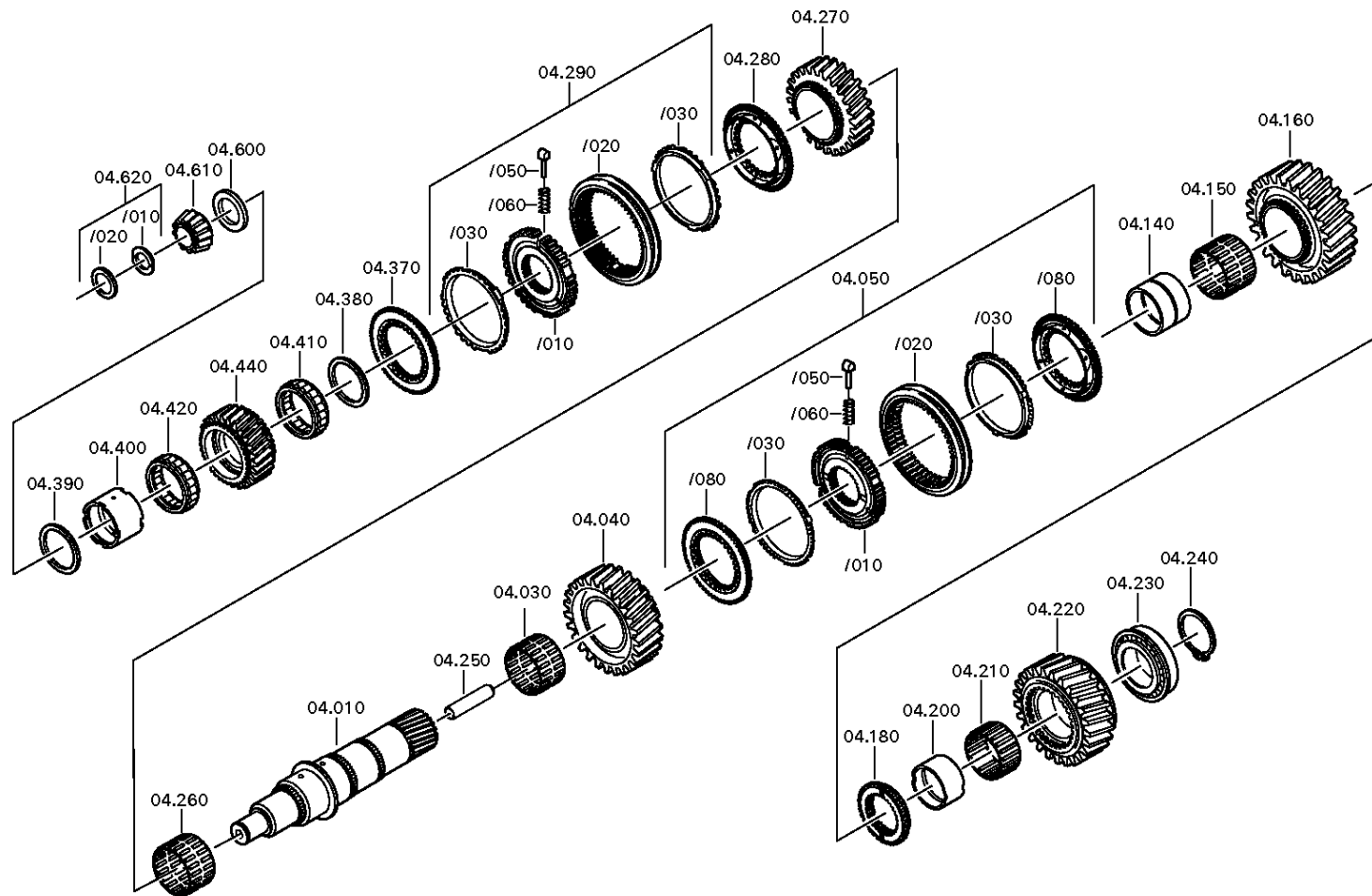
Material number: 1356.007.165

Plant: 161.04.12-1

Material-assembly-group-no: 1356.104.027



16 S 2531 TO /
MAIN SHAFT



Parts list

Page 1 from 3



Material number: 1356.007.165

Plant: 161.04.12-1

Material-assembly-group-no: 1356.104.027

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	1316.304.132		MAIN SHAFT	1					
30	0750.115.597		NEEDLE CAGE	1			ZFF*LOKAL HNG 92,0X100,0X62,8		
40	1316.304.002		HELICAL GEAR	1			2G/Z38 IN 1316 304 005(1)		
50	1356.204.009		SYNCHRONIZER	1			KPL.1+2G*BK160 MOLYBDAEN* ECOSPLIT 3+4*LOKAL		
/10	1297.304.527		SYNCHRO.BODY	1			ZF BK160		
/20	1297.304.517		SLIDING SLEEVE	1			ZF BK160		
/30	---		SYNCHRO.RING	2			ZFF*LOKAL HNG		
---	1316.304.170		SYNCHRO.RING	1					
---	1297.304.506		SYNCHRO.RING	1			ZF-BK160		
/50	1297.304.436		PRESSURE PART	3					
/60	0732.040.409		COMPRESSION SPRING	3					
/80	---		CLUTCH BODY	2			BK160*ZFF*LOKAL HNG		
140	1312.304.084		BUSH	1			ENTHALT.IN 1312 304 007(2)		
150	0750.115.598		NEEDLE CAGE	1			ZFF*LOKAL HNG 96,0X104,0X71,6		
160	1316.304.010		HELICAL GEAR	1			1G/Z47 IN 1312 304 033(0)		
180	1312.304.124		CLUTCH BODY	1			ENTHALT.IN 1312 304 055(0)		
200	1316.304.133		BUSH	1			A=50,00 IN 1312 304 010(2)		
210	0750.115.599		NEEDLE CAGE	1			ZFF*LOKAL HNG 90,0X98,0X49,8		
220	---		HELICAL GEAR	1					
---	1316.304.012		HELICAL GEAR	1			RG*Z44 IN 1312 304 125(0)		
---	1316.304.235		HELICAL GEAR	1					
230	0750.117.678		TAPERED ROLLER BEARING	1			80,000X139,992X36,512		
240	---		RETAINING RING	1		Z00027144137	H= 3,00- 3,65(ABSTUFUNG:0,05MM)		
---	0730.303.186		RETAINING RING	1		Z00027144110	h=3,50		
---	0730.303.185		RETAINING RING	1		Z00027144110	h=3,45		
---	0730.303.184		RETAINING RING	1		Z00027144110	h=3,40		
---	0730.303.183		RETAINING RING	1		Z00027144110	h=3,35		
---	0730.303.182		RETAINING RING	1		Z00027144110	h=3,30		
---	0730.303.181		RETAINING RING	1		Z00027144110	h=3,25		
---	0730.303.180		RETAINING RING	1		Z00027144110	h=3,20		
---	0730.303.179		RETAINING RING	1		Z00027144110	h=3,15		
---	0730.303.178		RETAINING RING	1		Z00027144110	h=3,10		
---	0730.303.187		RETAINING RING	1		Z00027144110	h=3,55		

Parts list

Page 2 from 3



Material number: 1356.007.165

Plant: 161.04.12-1

Material-assembly-group-no: 1356.104.027

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
---	0730.303.188		RETAINING RING	1		Z00027144110	h=3,60		
---	0730.303.189		RETAINING RING	1		Z00027144110	h=3,65		
250	1312.304.150		TUBE	1					
260	0750.115.597		NEEDLE CAGE	1			ZFF*LOKAL HNG 92,0X100,0X62,8		
270	1316.304.008		HELICAL GEAR	1			3G/Z34 IN 1312 304 135(1)		
280	1297.304.523		CLUTCH BODY	1			ZF BK144		
290	1356.204.010		SYNCHRONIZER	1			KPL.3+4G*BK144 MOLYBD*ANSCHL. INTEGR VERST*ECO 3+4*LOKAL		
/10	1297.304.525		SYNCHRO.BODY	1			ZF BK144		
/20	1297.304.516		SLIDING SLEEVE	1			ZF BK150		
/30	1316.304.189		SYNCHRO.RING	2			ZF-BK 144		
/50	1297.304.436		PRESSURE PART	3					
/60	0732.040.409		COMPRESSION SPRING	3					
370	1297.304.523		CLUTCH BODY	1			ZF BK144		
380	0750.101.193		THRUST WASHER	1			ZFF*LOKAL HNG 67,0X81,7X5,0		
390	0750.101.193		THRUST WASHER	1			ZFF*LOKAL HNG 67,0X81,7X5,0		
400	0750.119.161		BEARING INNER RING	1			ZFF*LOKAL HNG 67,00X77,00X66,16		
410	0750.115.531		ROLLER CAGE	1			77,0X101,0X29,0		
420	0750.115.531		ROLLER CAGE	1			77,0X101,0X29,0		
440	1316.304.103		HELICAL GEAR	1			Z32		
600	---		AXIAL WASHER	1			H= 7,30- 8,00(ABSTUFUNG:0,10MM)		
---	1315.304.048		AXIAL WASHER	1			A=8,00 IN 1315 304 042(2)		
---	1315.304.047		AXIAL WASHER	1			A=7,90 IN 1315 304 042(2)		
---	1315.304.046		AXIAL WASHER	1			A=7,80 IN 1315 304 042(2)		
---	1315.304.045		AXIAL WASHER	1			A=7,70 IN 1315 304 042(2)		
---	1315.304.044		AXIAL WASHER	1			A=7,60 IN 1315 304 042(2)		
---	1315.304.043		AXIAL WASHER	1			A=7,50 IN 1315 304 042(2)		
---	1315.304.085		AXIAL WASHER	1			A=7,40 IN 1315 304 042(2)		
---	1315.304.086		AXIAL WASHER	1			A=7,30 IN 1315 304 042(2)		
610	0750.120.342		TAPERED ROLLER BEARING	1			ZFF*LOKAL HNG 42,070X40,386		
620	1312.204.040		SPLIT RING	1			GESTANZT		
/10	---		SPLIT RING	2			H= 4,60- 5,00(ABSTUFUNG:0,10MM)		
---	0730.107.023		SPLIT RING	1			A=5,00 IN 0730 106 207(2)		
---	0730.107.022		SPLIT RING	1			A=4,90 IN 0730 106 207(2)		

Parts list

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Material number: 1356.007.165

Plant: 161.04.12-1

Material-assembly-group-no: 1356.104.027

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
---	0730.107.021		SPLIT RING	1			A=4,80 IN 0730 106 207(2)		
---	0730.107.020		SPLIT RING	1			A=4,70 IN 0730 106 207(2)		
---	0730.107.019		SPLIT RING	1			A=4,60 IN 0730 106 207(2)		
/20	0730.062.781		RETAINING RING	1			ENTHALT.IN 0730 062 636(2)		

Plant

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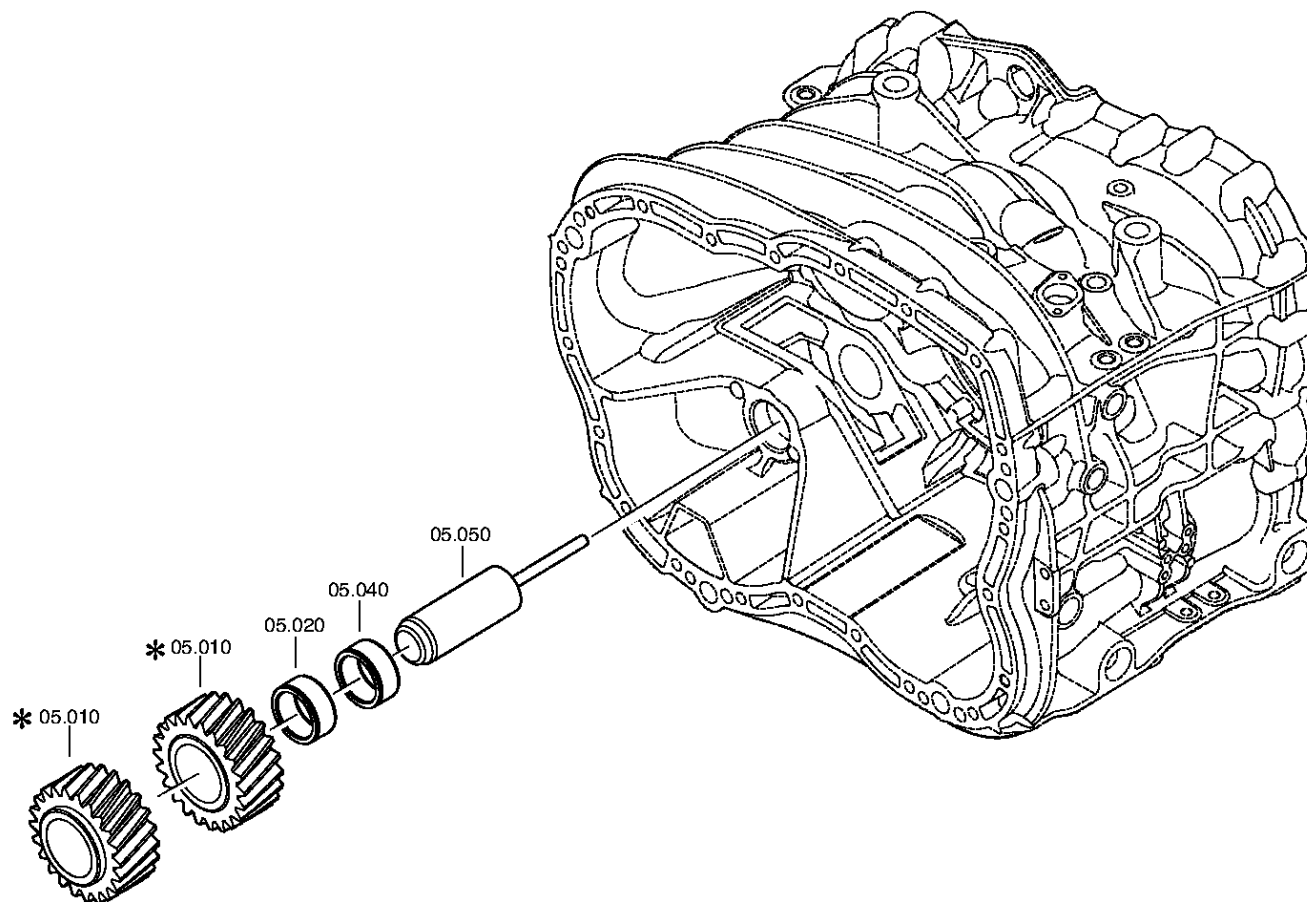
Material number: 1356.007.165

Plant: 161.05.01-1

Material-assembly-group-no: 1325.105.002



16 S 2531 TO /
RETURN



Parts list

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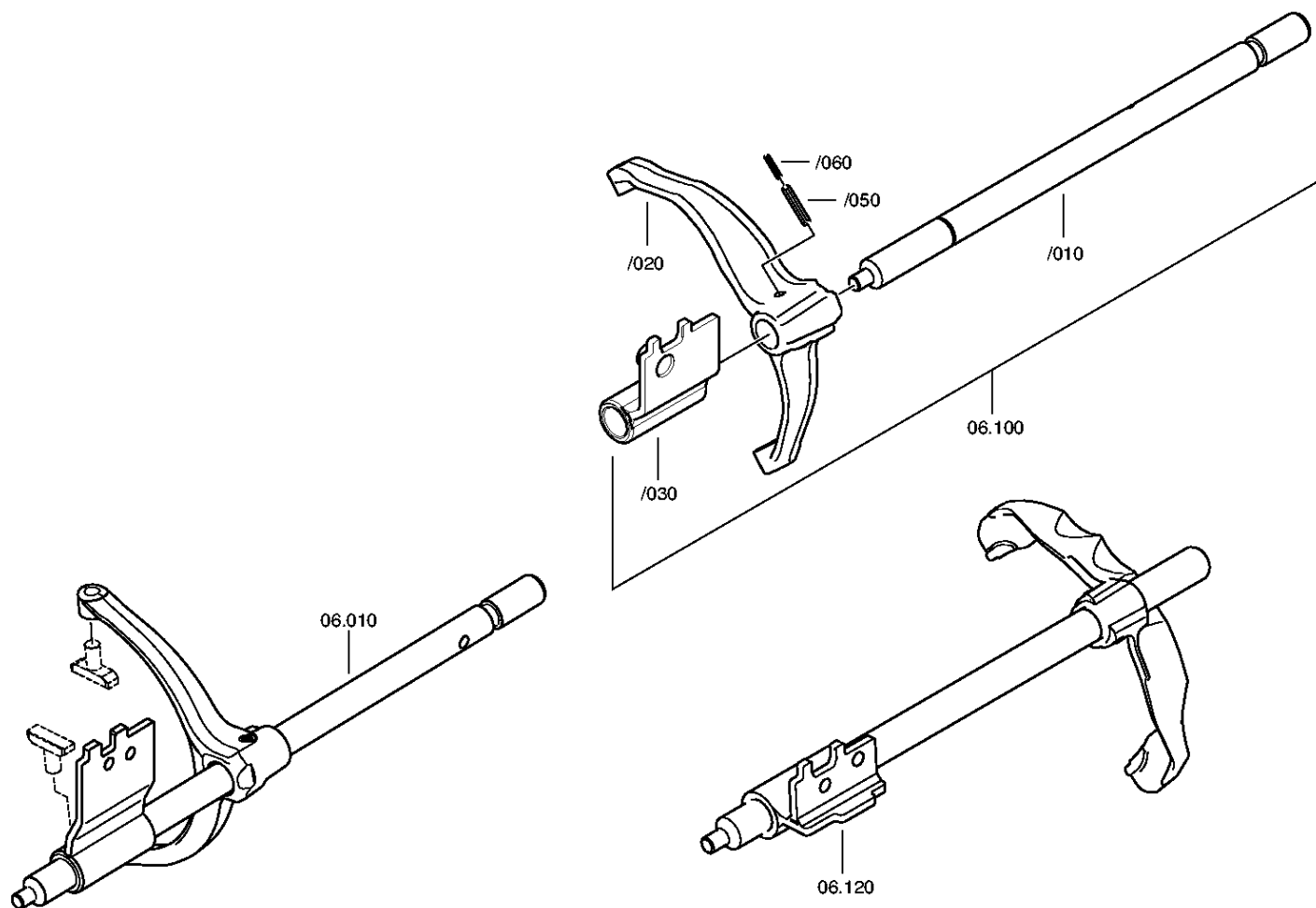
Material number: 1356.007.165

Plant: 161.05.01-1

Material-assembly-group-no: 1325.105.002

16 S 2531 TO /

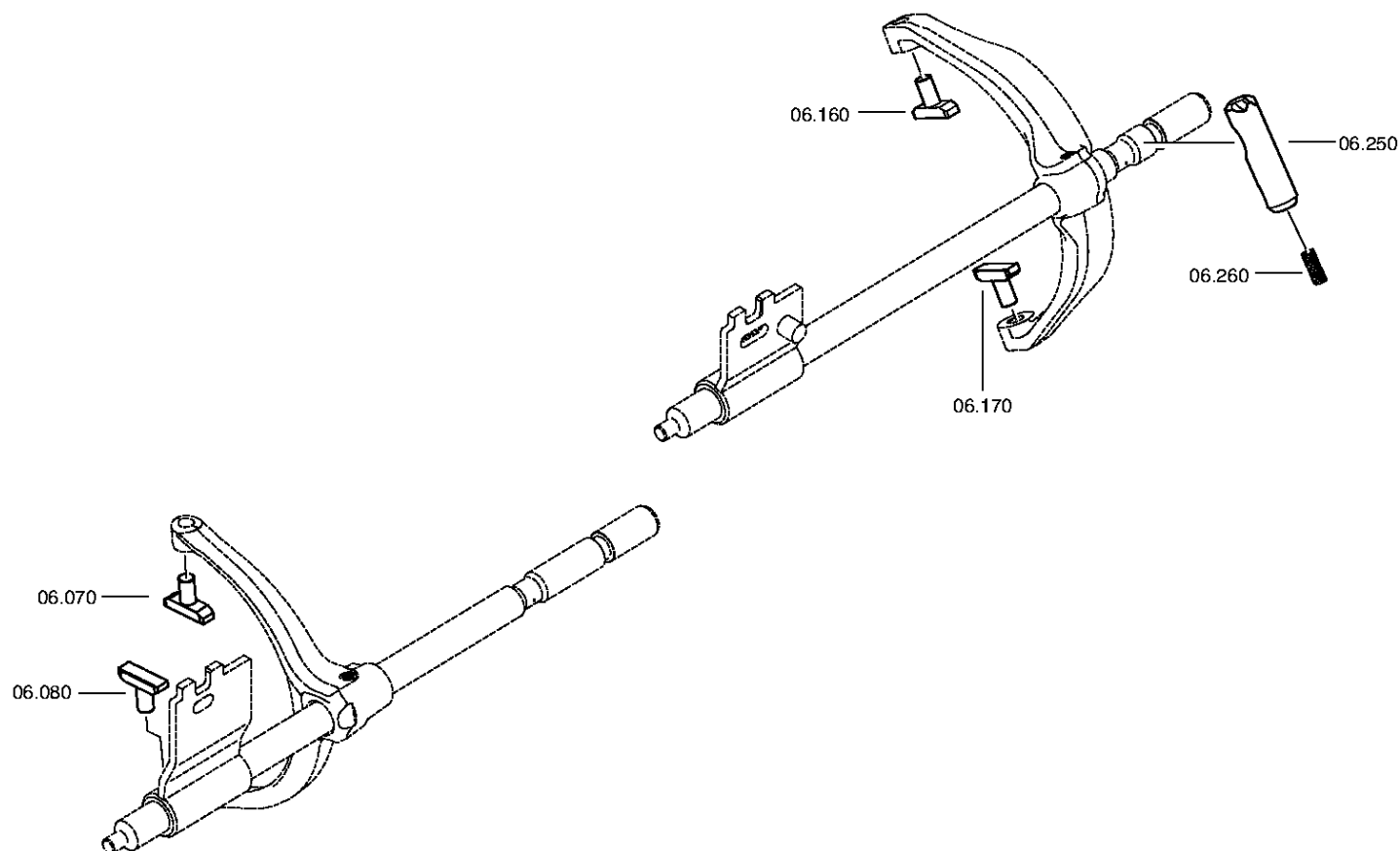
Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	---		REVERSE IDLER GEAR	1					
---	1316.305.001		REVERSE IDLER GEAR	1			Z22 IN 1295 305 050(1)		
---	1316.305.008		REVERSE IDLER GEAR	1			Z22 IN 1295 305 050(1)		
20	0750.115.596		NEEDLE CAGE	1			ZFF*LOKAL HNG 45,0X57,0X24,8		
40	0750.115.596		NEEDLE CAGE	1			ZFF*LOKAL HNG 45,0X57,0X24,8		
50	1316.201.030		REVERSE IDLER SHAFT	1			KPL.16S221*SG*L=102		
/120	0631.329.295		SLOTTED PIN	1			10X118		



Material number: 1356.007.165
 Plant: 161.06.02-1
 TRANSMISSION SHIFT SYSTEM



16 S 2531 TO /
 TRANSMISSION SHIFT SYSTEM



Parts list

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Material number: 1356.007.165

Plant: 161.06.04-1

Material-assembly-group-no: 1356.106.003

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	1356.206.012		GEAR SHIFT RAIL	1			KPL*WBI-3/4G*LANG*MIT GANGERKENNUNG*LOKAL		
70	1316.306.015		SLIDING PAD	1					
80	1316.306.015		SLIDING PAD	1					
100	1356.206.013		GEAR SHIFT RAIL	1			KPL*WBI-1/2G*LANG*LOKAL		
120	1356.206.014		GEAR SHIFT RAIL	1			KPL*WBI-RG*LANG*LOKAL		
160	1316.306.015		SLIDING PAD	1					
170	1316.306.015		SLIDING PAD	1					
250	1313.306.013		LOCKING PIN	1					
260	0732.040.736		COMPRESSION SPRING	1					

Plant

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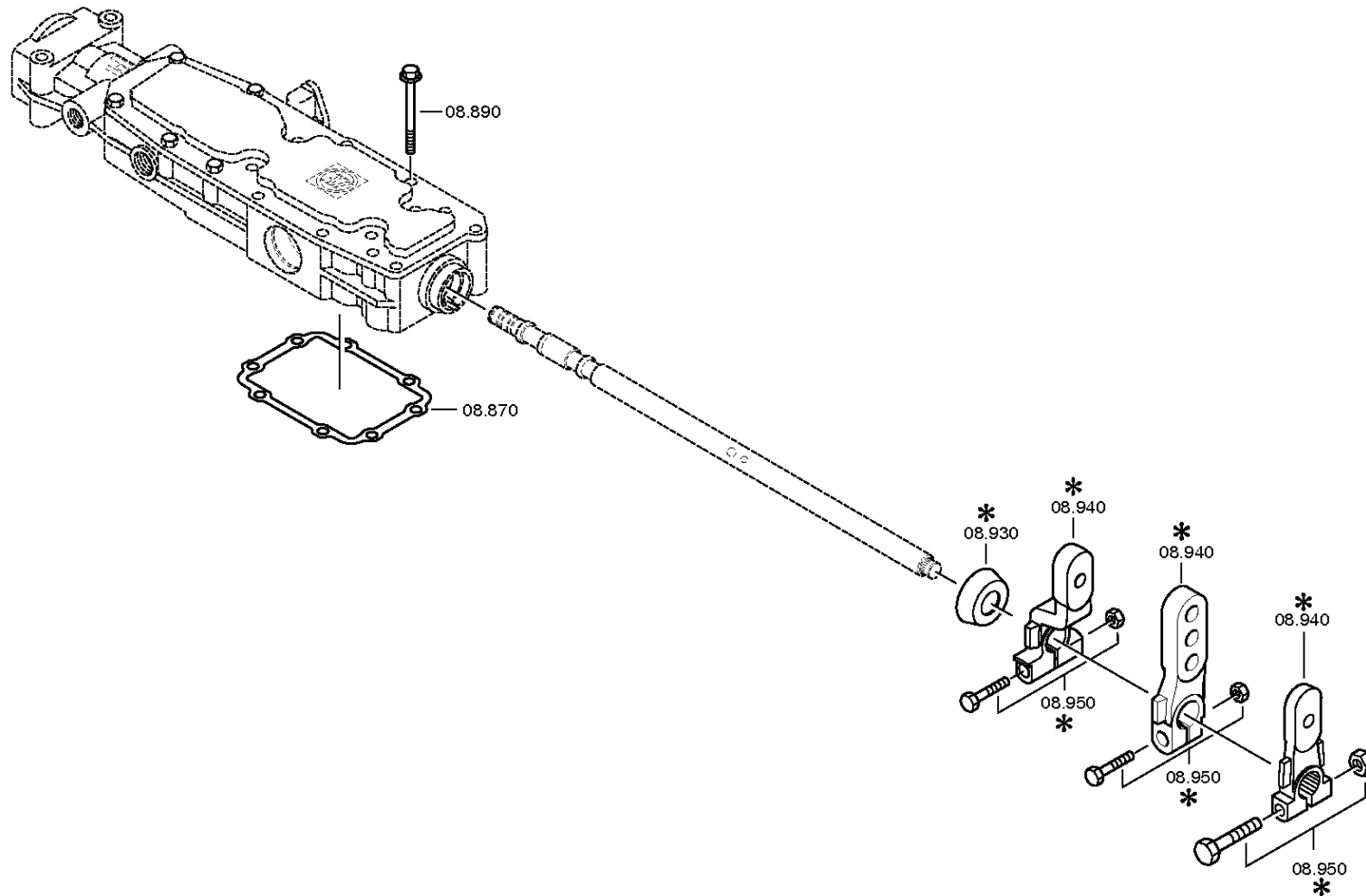
Material number: 1356.007.165

Plant: 068.07.81-1

GEAR SHIFT HOUSING



16 S 2531 TO /
GEAR SHIFT HOUSING



Plant

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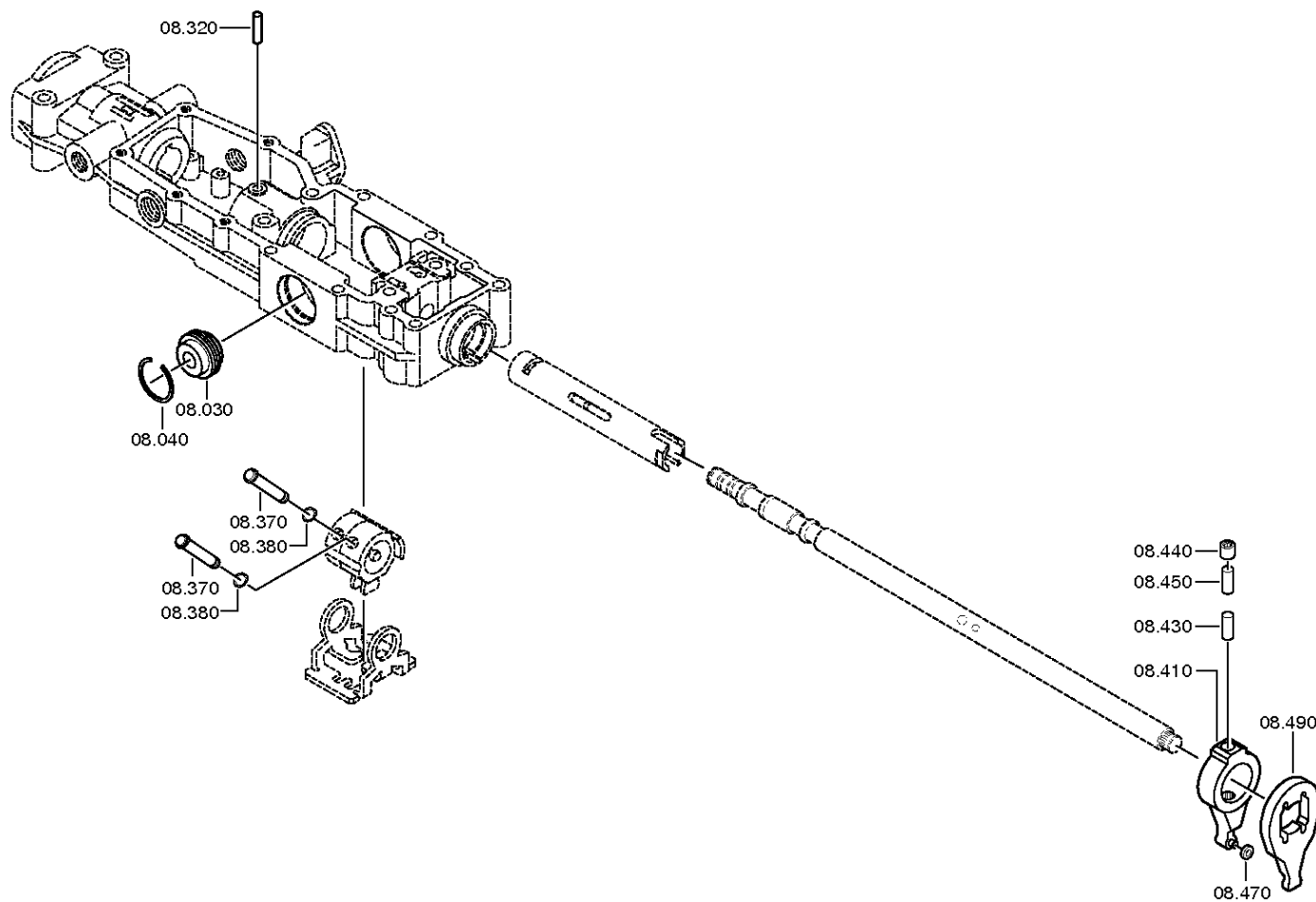
Material number: 1356.007.165

Plant: 068.07.25-1

GEAR SHIFT HOUSING



16 S 2531 TO /
GEAR SHIFT HOUSING



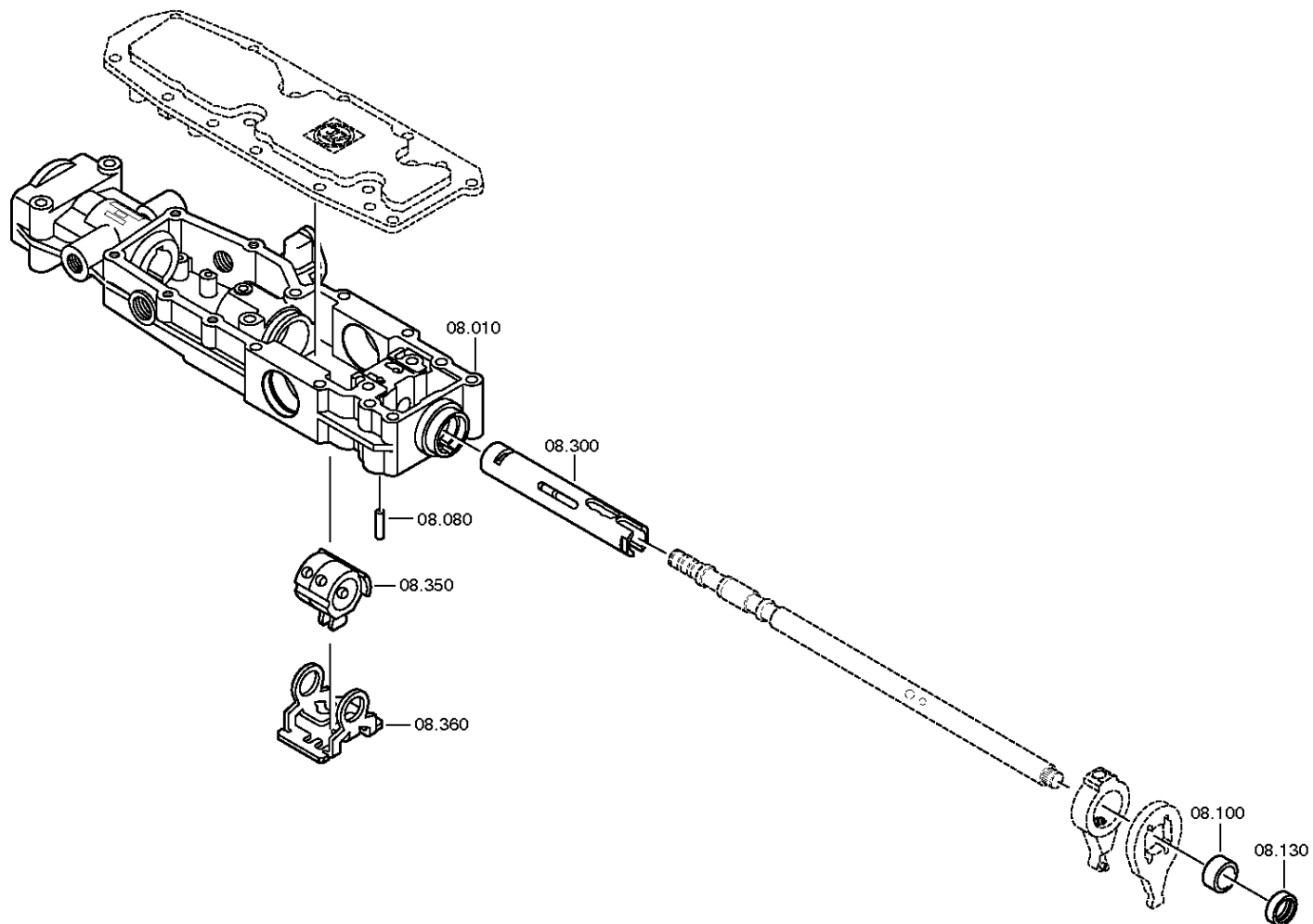
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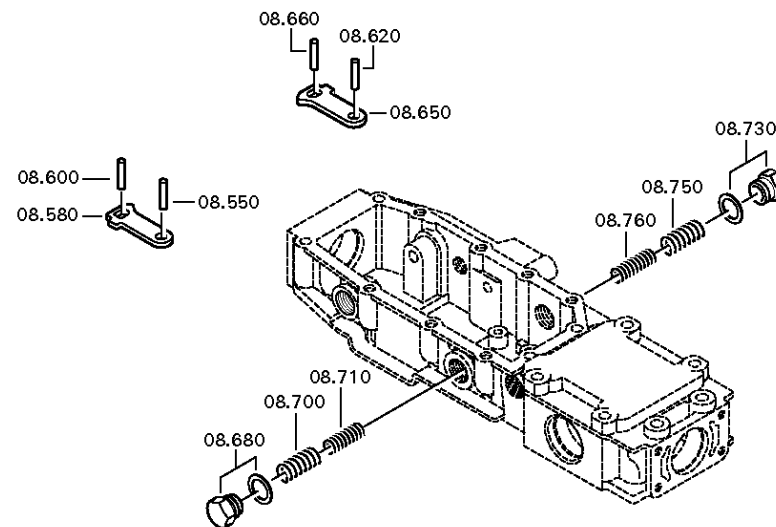
Plant: 068.07.38-1

GEAR SHIFT HOUSING



16 S 2531 TO /
GEAR SHIFT HOUSING





Parts list

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Material number: 1356.007.165

Plant: 068.07.81-1

Material-assembly-group-no: 1316.108.817

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	1315.307.383		GEAR SHIFT HOUSING	1		Z00008223510			
30	0501.209.212		DETENT	1			KPL.		
40	0630.532.130		V-RING	1					
80	0631.306.123		CYLINDRICAL PIN	1		Z00008223510	8X24		
100	0730.260.703		BUSH	1		Z00008223510	A=13,70		
130	0734.309.765		SHAFT SEAL	1		Z00008223510	28,0X42,0X11,0		
300	1315.307.294		QUILL SHAFT	1		Z00011957210	ENTHALT.IN 1315.307.293(1)		
320	0731.201.702		PIN	1					
350	1315.307.735		DRIVER	1		Z00011746811			
360	1315.307.218		LOCKING PIECE	1		Z00008223510			
370	1316.208.003		PIN	2			KPL.		
380	0630.501.006		RETAINING RING	2			10X1		
410	1316.208.002		VALVE LEVER	1			KPL.		
430	0731.201.732		PIN	1					
440	0635.303.019		NEEDLE BUSH	1			10X14X15		
450	0731.201.732		PIN	1					
470	1315.307.226		ROLLER	1					
490	1315.307.292		LEVER	1					
550	0631.306.832		CYLINDRICAL PIN	1			6X20		
580	1315.307.203		DETENT LEVER	1					
600	0631.306.832		CYLINDRICAL PIN	1			6X20		
620	0631.306.832		CYLINDRICAL PIN	1			6X20		
650	1315.307.203		DETENT LEVER	1					
660	0631.306.832		CYLINDRICAL PIN	1			6X20		
680	---		SCREW	1		Z00010146310	M22X1,5		
---	1315.307.736		SCREW	1		Z00010146312	M22X1,5		
---	0730.009.515		SEALING RING	1		Z00010146312	A22X27		
700	0732.040.985		COMPRESSION SPRING	1					
710	0732.040.984		COMPRESSION SPRING	1					
730	---		SCREW	1		Z00010146310	M22X1,5		
---	1315.307.736		SCREW	1		Z00010146312	M22X1,5		
---	0730.009.515		SEALING RING	1		Z00010146312	A22X27		
750	0732.040.985		COMPRESSION SPRING	1					
760	0732.040.984		COMPRESSION SPRING	1					

Parts list

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Material number: 1356.007.165

Plant: 068.07.81-1

Material-assembly-group-no: 1316.108.817

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
870	1315.307.013		GASKET	1					
890	0736.300.137		HEXAGON SCREW	8		Z00009195410	M8X80 M8X80		
930	1341.307.104		PROTECTION CAP	1		C01007034F10			

Plant

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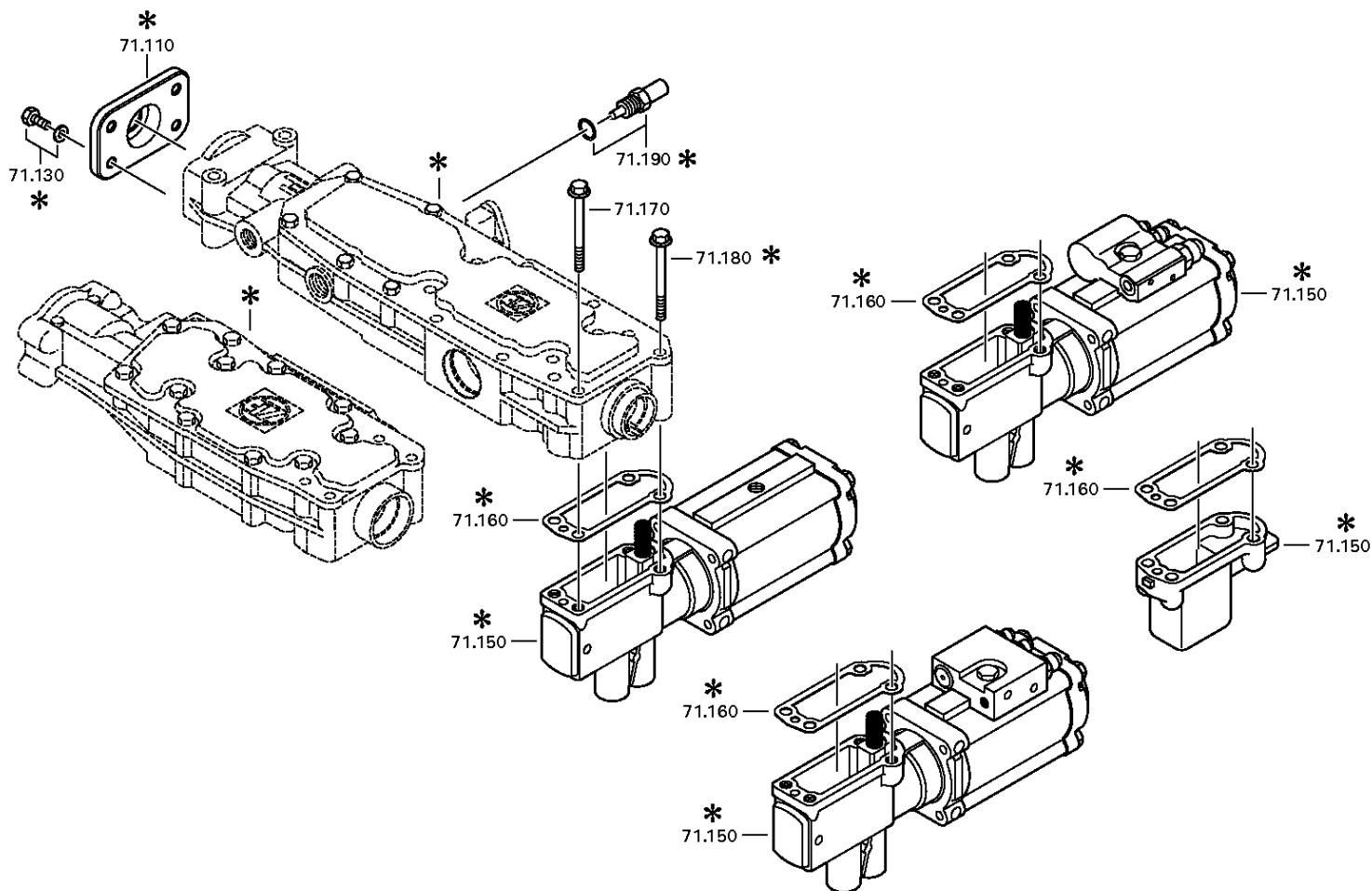
Material number: 1356.007.165

Plant: 062.08.30-1

END COVER



16 S 2531 TO /
END COVER



Plant

Page 2 from 2

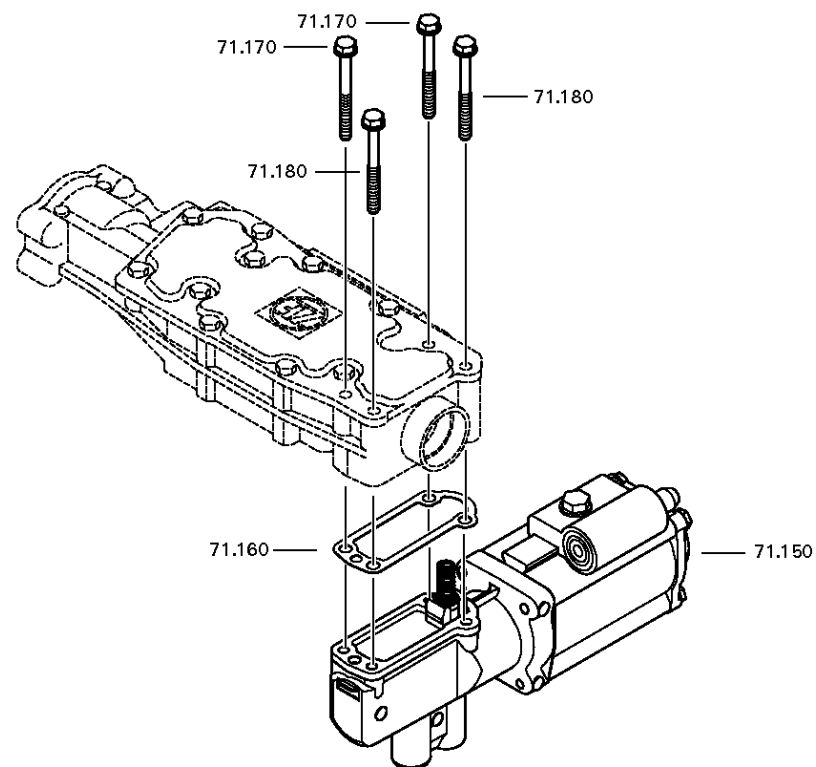
Material number: 1356.007.165

Plant: 068.08.45-1

END COVER



16 S 2531 TO /
END COVER



Parts list

Page 1 from 1



Material number: 1356.007.165

Plant: 062.08.30-1

Material-assembly-group-no: 1316.171.403

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
110	1341.307.113		COVER	1		Z00009271410			
130	---		HEXAGON SCREW	4		Z00007891111	M8X20		
---	0636.100.796		HEXAGON SCREW	1		Z00007891120	M8X20		
---	0630.100.295		WASHER	1		Z00007158414			
150	0501.216.414		PNEUMATIC SERVO UNIT	1			KPL. PSE2 DBV6		
160	1315.307.242		GASKET	1					
170	0736.300.137		HEXAGON SCREW	2		Z00009195410	M8X80 M8X80		
180	---		HEXAGON SCREW	2		Z00009195410	M8X80		
---	0736.300.137		HEXAGON SCREW	1		Z00009195414	M8X80 M8X80		
---	0666.790.033		SEAL.COMPOUND	1		Z00009195414			

Plant

Page 1 from 2

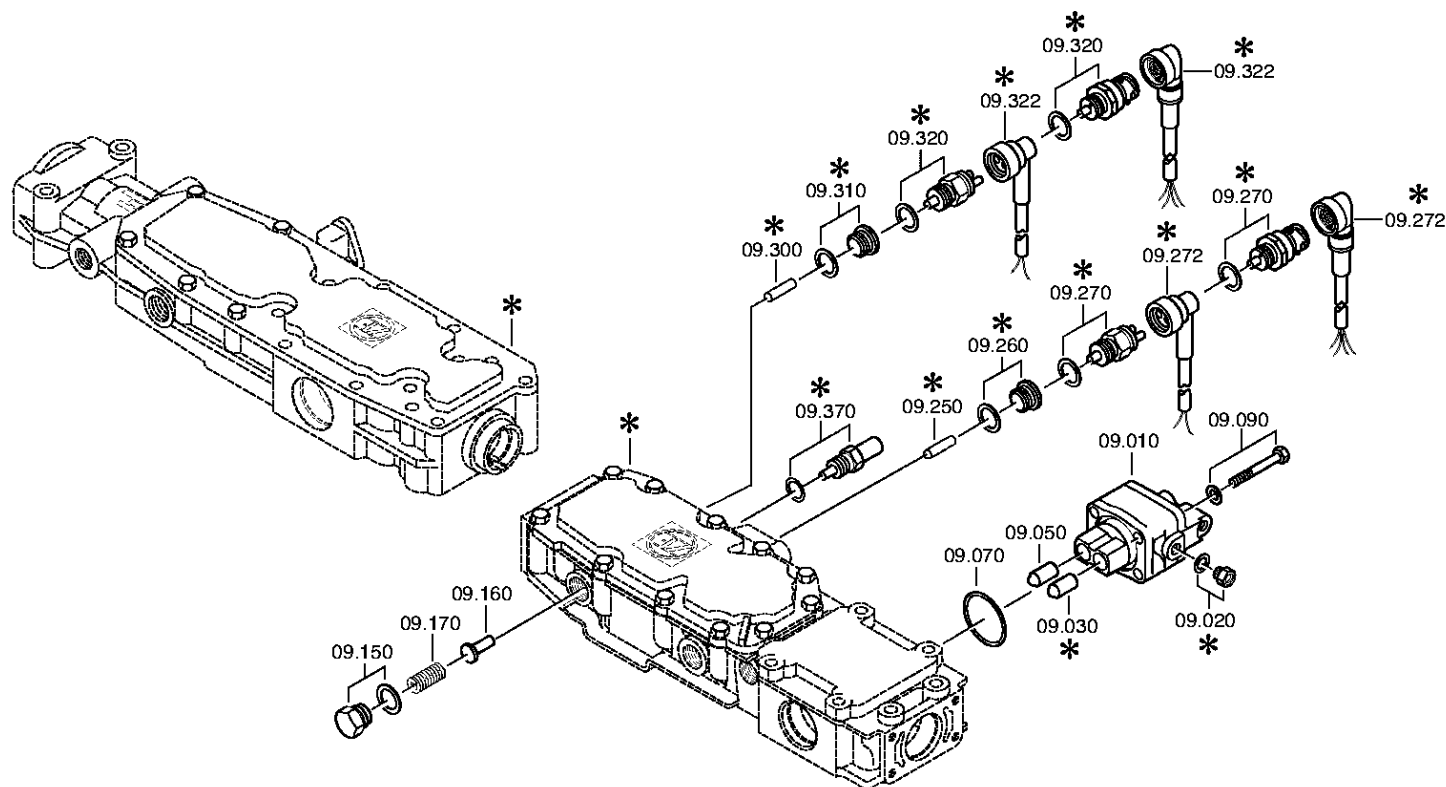
Material number: 1356.007.165

Plant: 068.09.01-1

CONNECTING PARTS



16 S 2531 TO /
CONNECTING PARTS



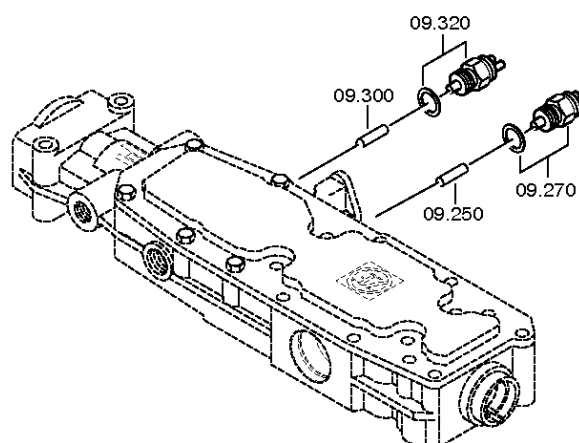
Material number: 1356.007.165

Plant: 068.09.11-1

CONNECTING PARTS



16 S 2531 TO /
CONNECTING PARTS



Parts list

Page 1 from 1



Material number: 1356.007.165

Plant: 068.09.01-1

Material-assembly-group-no: 1316.109.052

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	6038.202.043		CUT-OFF VALVE	1			KPL.H-H*ZULUFTDROSSEL 1,55		
30	0501.209.188		BALL CASTER	1			KPL.		
50	0501.209.188		BALL CASTER	1			KPL.		
70	---		O-RING	1			ZFF*LOKAL HNG 42X3		
90	---		HEXAGON SCREW	4			M8X65		
---	0636.100.519		HEXAGON SCREW	1		Z00007054110	M8X65		
---	0630.100.295		WASHER	1		Z00007158414			
150	---		SCREW	1			M22X1,5		
---	1315.307.736		SCREW	1		Z00010146312	M22X1,5		
---	0730.009.515		SEALING RING	1		Z00010146312	A22X27		
160	1315.307.384		BOLT	1			ENTHALT.IN 1250 307 589(2)		
170	0732.042.207		COMPRESSION SPRING	1					
250	0731.201.446		PIN	1			ENTHALT.IN 0731 201 445(2)		
270	---		SWITCH	1		Z00004287211	OEFF*45N.M*DICHTRING*BAJONETT* SCHUTZKAPPE		
---	0501.219.856		SWITCH	1			OEFFNER DIN BAJONETT		
---	0634.801.062		SEALING RING	1			18X24		
300	0731.208.256		PIN	1			A=30,0		
320	---		SWITCH	1		Z00025033610	SCHL*45N.M*DICHTRING*BAJONETT* SCHUTZKAPPE		
---	0501.331.660		SWITCH	1		Z00025033617			
---	0634.801.062		SEALING RING	1		Z00025033617	18X24		
---	0700.300.427		PROTECTION CAP	1		Z00025033617			

Plant

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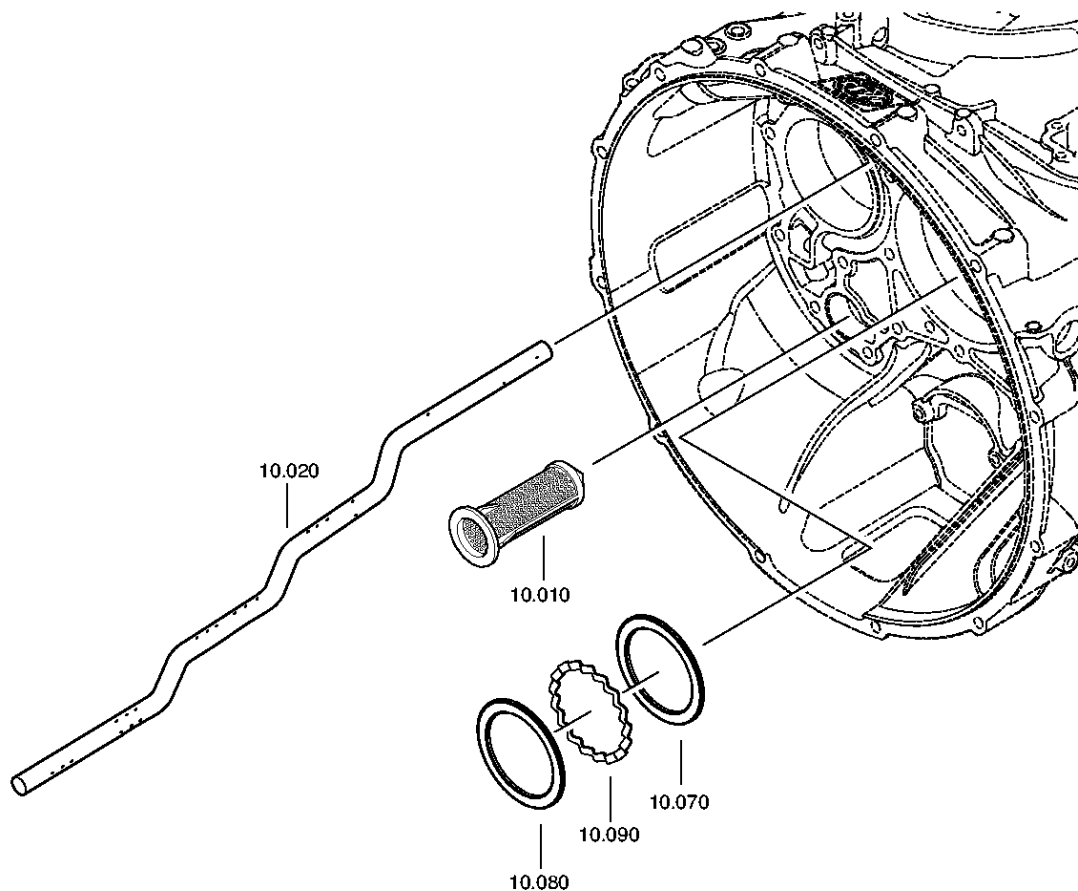
Material number: 1356.007.165

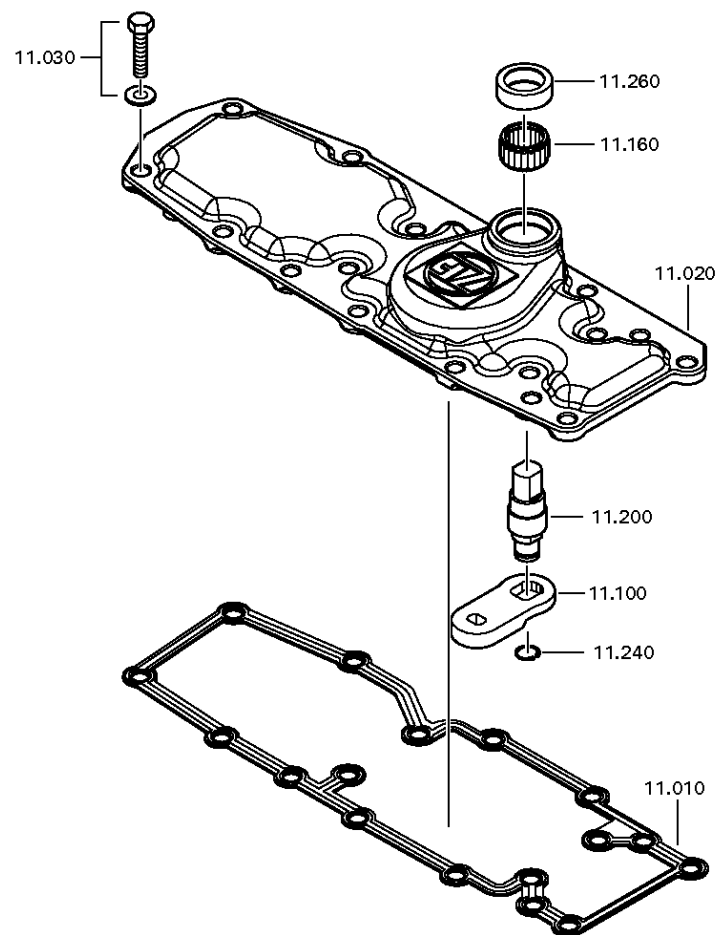
Plant: 161.10.04-1

OIL SUPPLY



16 S 2531 TO /
OIL SUPPLY





Plant

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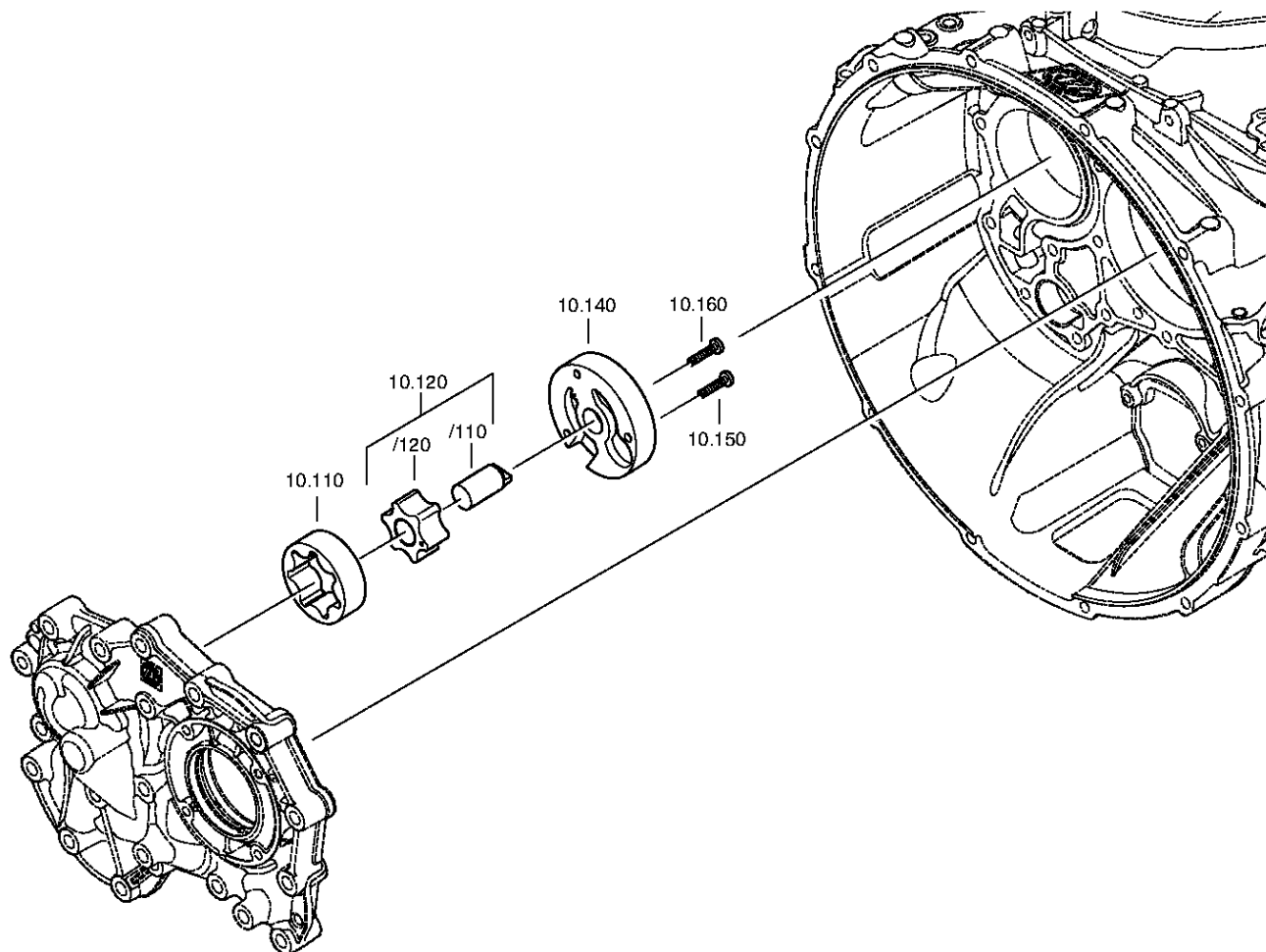
Material number: 1356.007.165

Plant: 161.10.01-1

OIL SUPPLY



16 S 2531 TO /
OIL SUPPLY



Parts list

Page 1 from 1



Material number: 1356.007.165

Plant: 161.10.04-1

Material-assembly-group-no: 1356.110.002

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	0501.318.802		SCREEN INSERT	1					
10	0501.324.072		GASKET	1		Z00033959410			
20	---		COVER	1		Z00033959410	ZFF/ZFDH		
20	1356.301.001		OIL TUBE	1			ECO 4 16G LANG		
30	---		HEXAGON SCREW	5		Z00033959410	M8X25		
---	0636.016.401		HEXAGON SCREW	1			M8X25		
---	0630.100.295		WASHER	1		Z00007158414			
70	0730.300.745		WASHER	1			A=3,30 A=3,30		
80	0730.150.766		WASHER	1					
90	1315.302.040		SPACER RING	1					
100	---		SELECTOR LEVER	1		Z00033959410	ZFF*LOKAL HNG		
110	1315.303.027		ROTOR	1					
120	1314.202.039		PUMP SHAFT	1			KPL.		
140	1325.303.017		PUMP COVER	1					
150	0736.101.076		TORX SCREW	1			M6X30		
160	0736.101.076		TORX SCREW	1			M6X30		
160	---		NEEDLE SLEEVE	1		Z00033959410	ZFF*LOKAL HNG 22X28X10		
200	---		SELECTOR SHAFT	1		Z00033959410	ZFF*LOKAL HNG		
240	0630.531.240		V-RING	1		Z00033959410			
260	---		SHAFT SEAL	1		Z00033959410	20X30X7		
---	0734.309.392		SHAFT SEAL	1			20,0X30,0X7,0		

Plant

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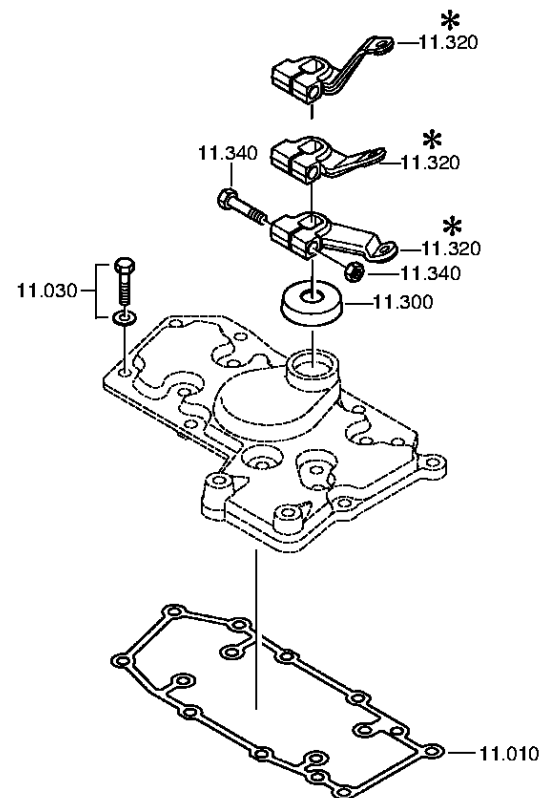
Material number: 1356.007.165

Plant: 068.10.04-1

Material-assembly-group-no: 1341.111.809



16 S 2531 TO /
SELECTOR LEVER



Parts list

Page 1 from 1



Material number: 1356.007.165

Plant: 068.10.04-1

Material-assembly-group-no: 1341.111.809

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
300	---		PROTECTION CAP	1		Z00030698111			
---	0501.324.645		PROTECTION CAP	1		Z00030698110			
---	1307.307.052		PROTECTION CAP	1		Z00030698110			
---	0501.330.970		PROTECTION CAP	1		Z00030698110	46mmx7mm		

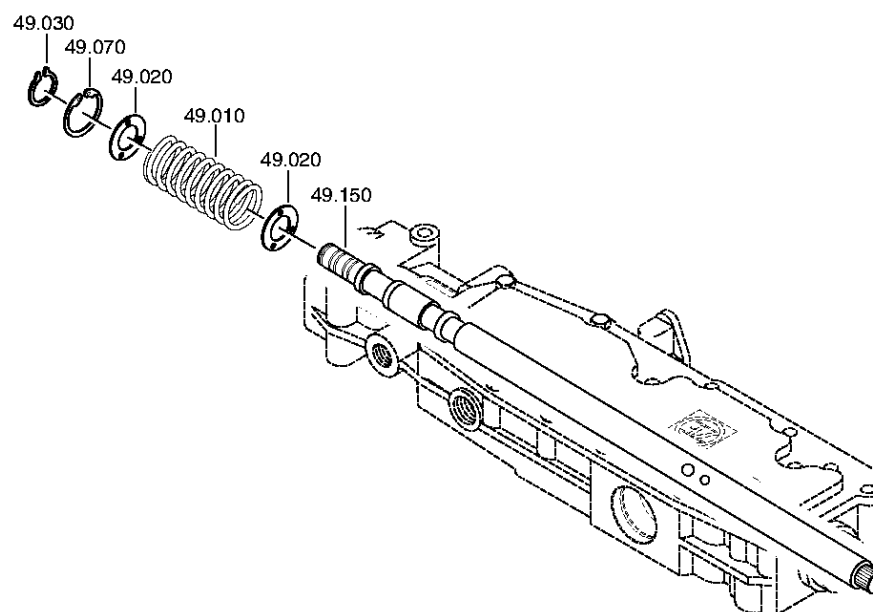
Material number: 1356.007.165

Plant: 068.12.08-1

Material-assembly-group-no: 1316.149.478



16 S 2531 TO /
SET OF SPRINGS



Parts list

Page 1 from 1



Material number: 1356.007.165

Plant: 068.12.08-1

Material-assembly-group-no: 1316.149.478

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	0732.040.630		COMPRESSION SPRING	1					
20	0730.301.376		WASHER	2					
30	0630.532.138		V-RING	1					
70	0630.502.022		RETAINING RING	1			40X1,75		
150	1315.307.517		GEARSHIFT SHAFT	1					

Plant

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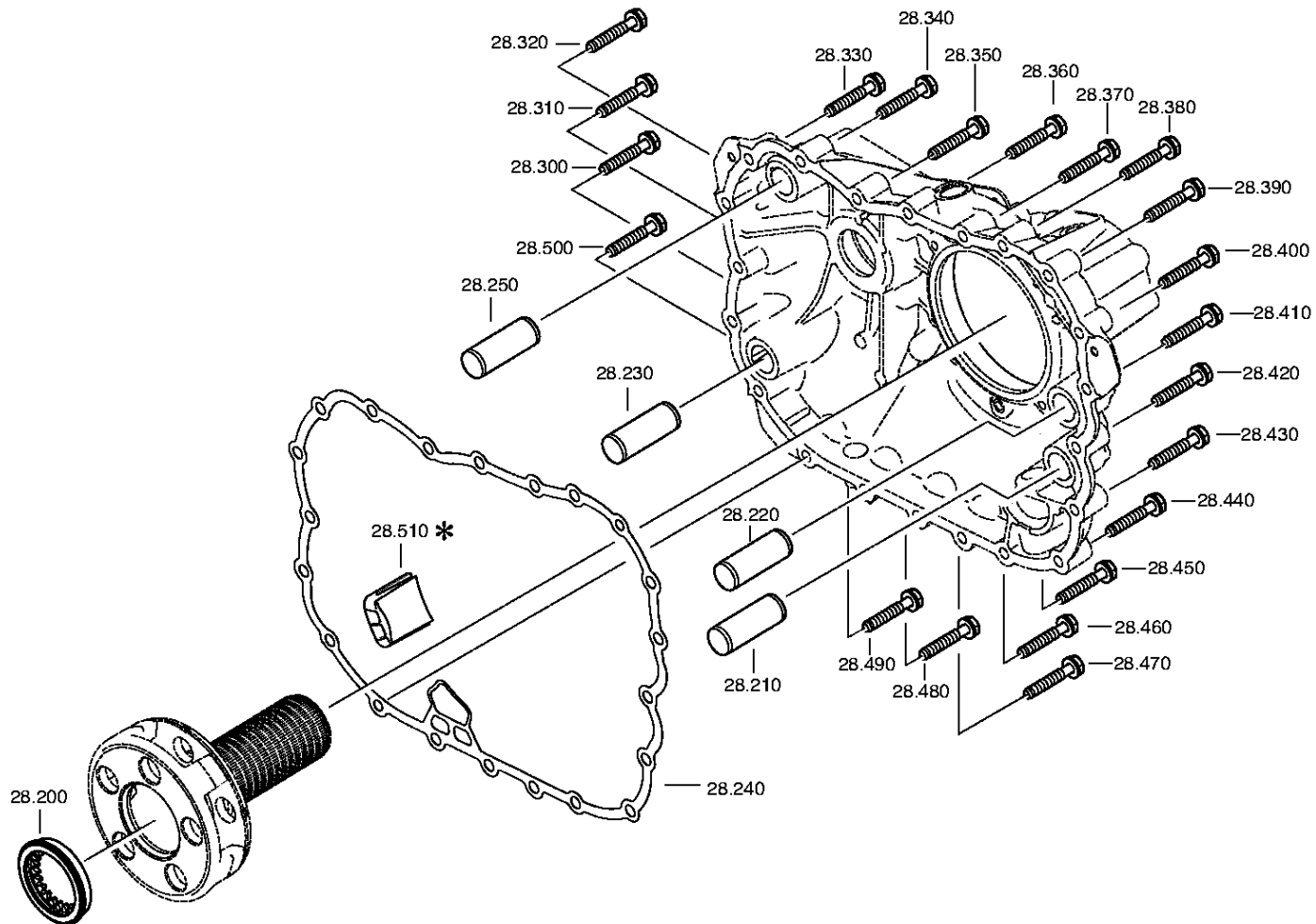
Material number: 1356.007.165

Plant: 161.28.01-1

Material-assembly-group-no: 1325.128.807



16 S 2531 TO /
PLANETARY RANGE



Parts list

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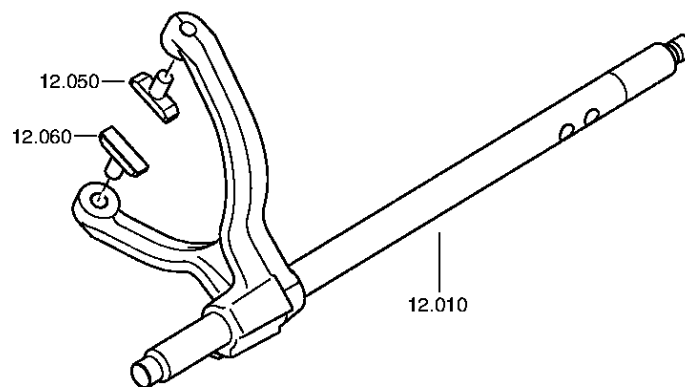
Material number: 1356.007.165

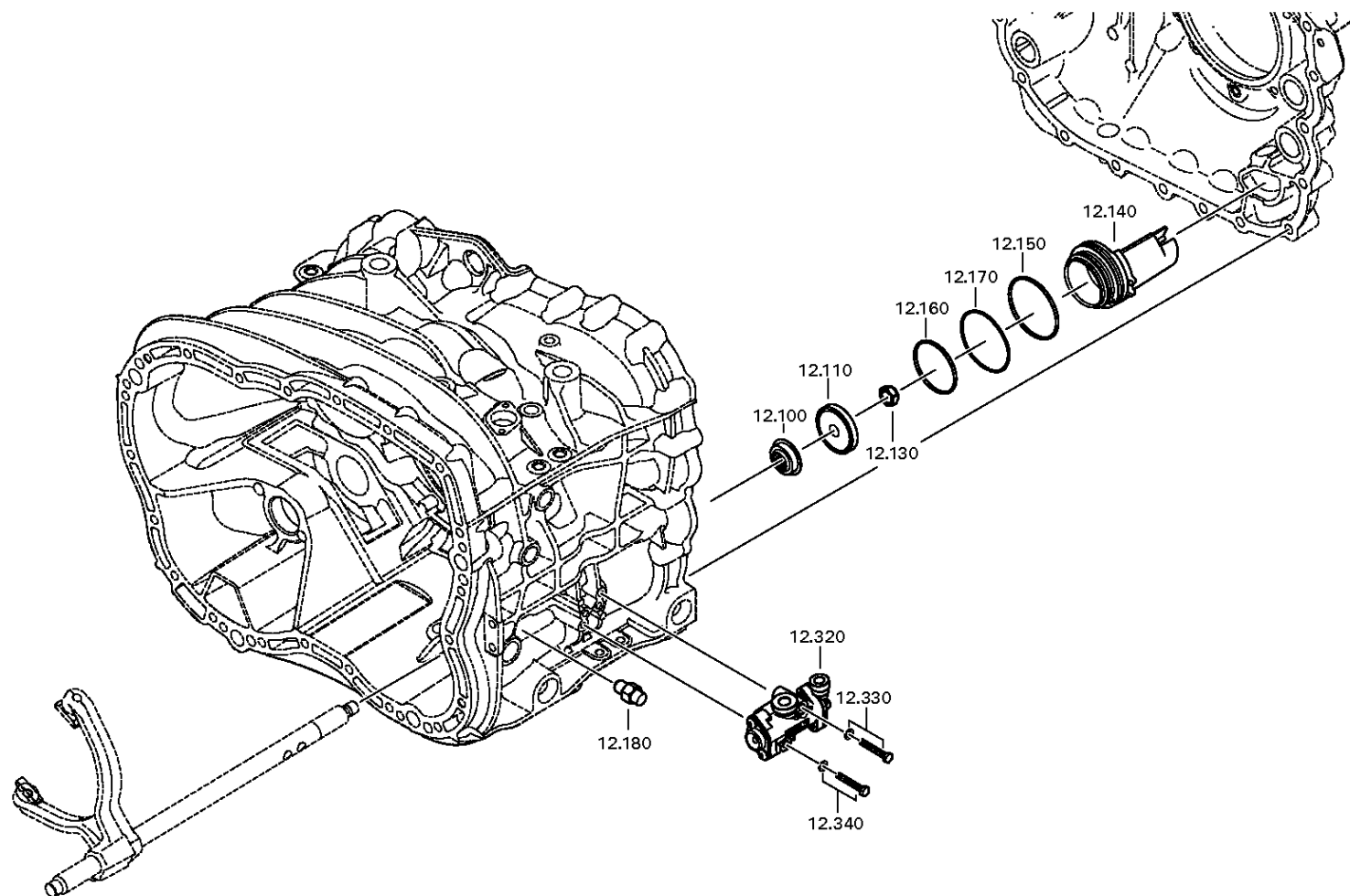
Plant: 161.28.01-1

Material-assembly-group-no: 1325.128.807

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
200	1315.332.073		PRESSURE DISK	1		Z00033223510			
210	0731.300.002		CYLINDRICAL PIN	1					
220	0731.300.002		CYLINDRICAL PIN	1					
230	0731.300.002		CYLINDRICAL PIN	1					
240	0501.323.705		GASKET	1					
250	0731.300.002		CYLINDRICAL PIN	1					
300	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
310	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
320	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
330	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
340	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
350	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
360	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
370	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
380	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
390	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
400	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
410	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
420	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
430	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
440	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
450	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
460	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
470	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
480	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
490	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
500	0636.016.405		HEXAGON SCREW	1		Z00007060111	M10X60		
510	6093.301.034		COVER	1					





Parts list

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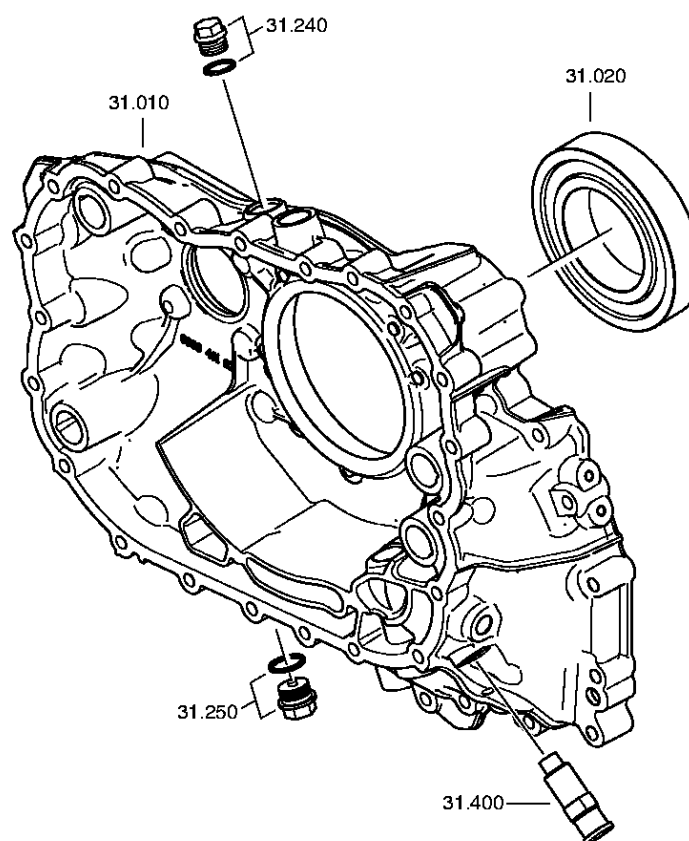
Material number: 1356.007.165

Plant: 161.40.01-1

Material-assembly-group-no: 1356.112.001

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	1356.212.002		GEAR SHIFT RAIL	1			KPL.GV*E32 LANG*16 GANG		
50	1316.306.015		SLIDING PAD	1					
60	1316.306.015		SLIDING PAD	1					
100	0750.112.131		FLANGE PACKING	1			25X40X15		
110	0501.324.670		PISTON	1					
130	0737.300.037		LOCKING NUT	1			MS16X1,5		
140	1325.312.012		CYLINDER	1					
150	---		O-RING	1			ZFF*LOKAL HNG		
160	---		O-RING	1			ZFF*LOKAL HNG		
170	1315.312.034		SPRING	1					
180	---		DETENT PLUNGER	1			235N*50N.M		
---	1324.207.033		DETENT PLUNGER	1			KPL. *235 N		
---	0730.008.604		SEALING RING	1		C01009860C10			
300	0637.510.665		PLUG	1			M10X1		
320	0501.219.848		5/2 WAY VALVE	1		Z00035060612	SPLITGRUPPENVENTIL VERSION B 96,1mmx49,8mm		
330	0736.300.659		TORX SCREW	1		Z00035060612	M6X45		
340	0736.300.659		TORX SCREW	1		Z00035060612	M6X45		



Plant

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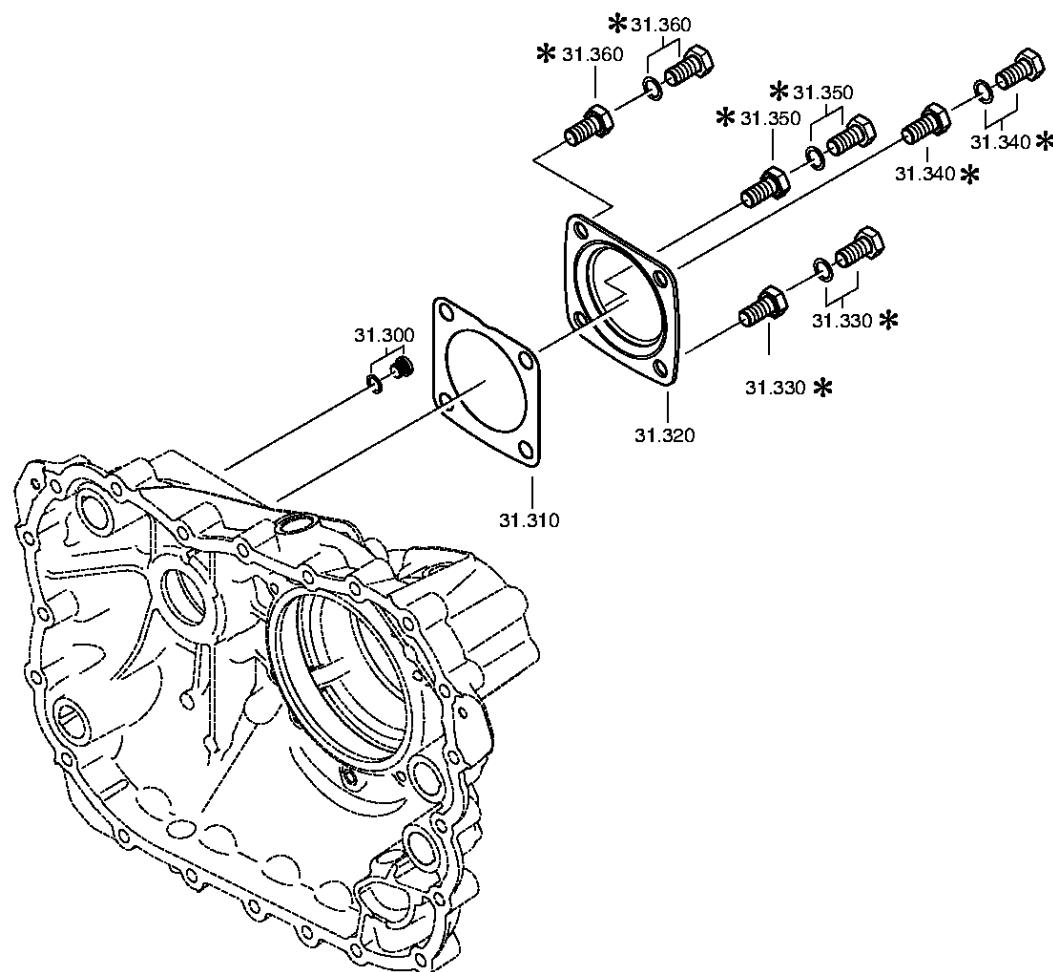
Material number: 1356.007.165

Plant: 161.43.40-1

RC HOUSING



16 S 2531 TO /
RC HOUSING



Parts list

Page 1 from 1



Material number: 1356.007.165

Plant: 161.43.02-1

Material-assembly-group-no: 1325.131.018

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	6093.201.008		HOUSING	1			KPL.*ECOSPLIT*GD		
12	0637.510.020		PLUG	1					
14	0637.510.020		PLUG	1					
16	0637.510.020		PLUG	1					
18	0637.510.020		PLUG	1					
20	0750.116.394		BALL BEARING	1			90,0X160,0X30,0		
240	---		SCREW PLUG	1			60N.M*DICHTRING M24X1,5		
---	0636.304.088		SCREW PLUG	1		Z00010112110	M24X1,5		
---	0730.008.637		SEALING RING	1		Z00010112110	24X29		
250	---		SCREW PLUG	1		Z00010176111	M24X1,5		
---	0736.300.160		SCREW PLUG	1		Z00010176110	M24X1,5 M24X1,5		
---	0730.008.637		SEALING RING	1		Z00010176110	24X29		
300	---		SCREW PLUG	1		C01004359F10	15N.M*DICHTRING M10X1		
---	0636.100.793		SCREW PLUG	1		Z00010111613	M10X1		
---	0730.008.055		SEALING RING	1			10X14		
310	1238.308.201		GASKET	1			ENTHALT.IN 1238 308 202(2)		
320	1328.301.170		COVER	1		Z00008068010			
330	---		HEXAGON SCREW	1		Z00007061014	M12X25		
---	0636.016.406		HEXAGON SCREW	1		Z00007061018	M12X25		
---	0630.100.284		WASHER	1		Z00007158217			
340	---		HEXAGON SCREW	1		Z00007061014	M12X25		
---	0636.016.406		HEXAGON SCREW	1		Z00007061018	M12X25		
---	0630.100.284		WASHER	1		Z00007158217			
350	---		HEXAGON SCREW	1		Z00007061014	M12X25		
---	0636.016.406		HEXAGON SCREW	1		Z00007061018	M12X25		
---	0630.100.284		WASHER	1		Z00007158217			
360	---		HEXAGON SCREW	1		Z00007061014	M12X25		
---	0636.016.406		HEXAGON SCREW	1		Z00007061018	M12X25		
---	0630.100.284		WASHER	1		Z00007158217			
400	---		PULSE SENSOR	1			35N.M*O.DICHTRING*BAJONETT*L=35,0		
---	0501.210.857		PULSE SENSOR	1		Z00008965210			

Plant

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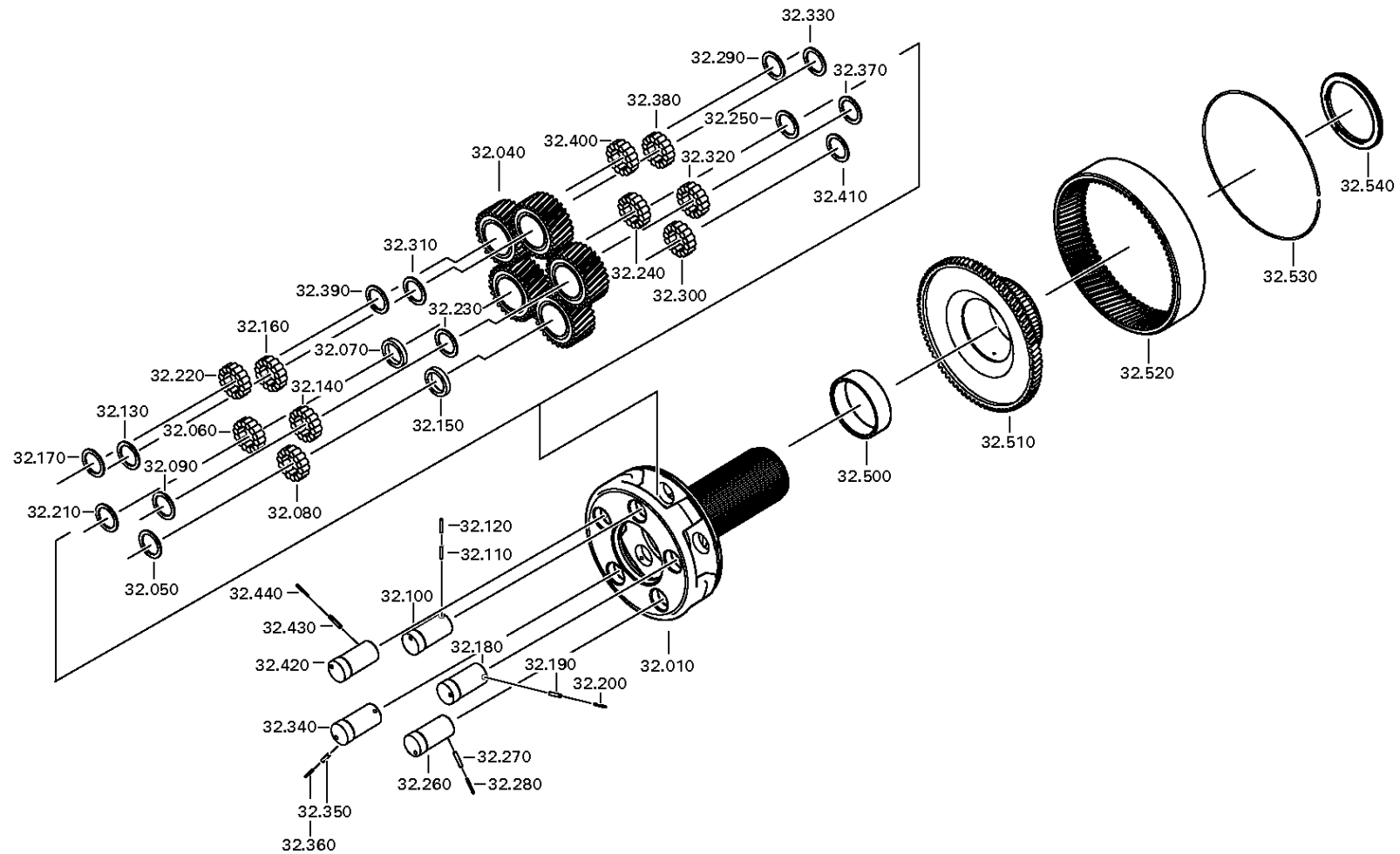
Material number: 1356.007.165

Plant: 161.44.04-1

PLANETARY DRIVE



16 S 2531 TO /
PLANETARY DRIVE



Plant

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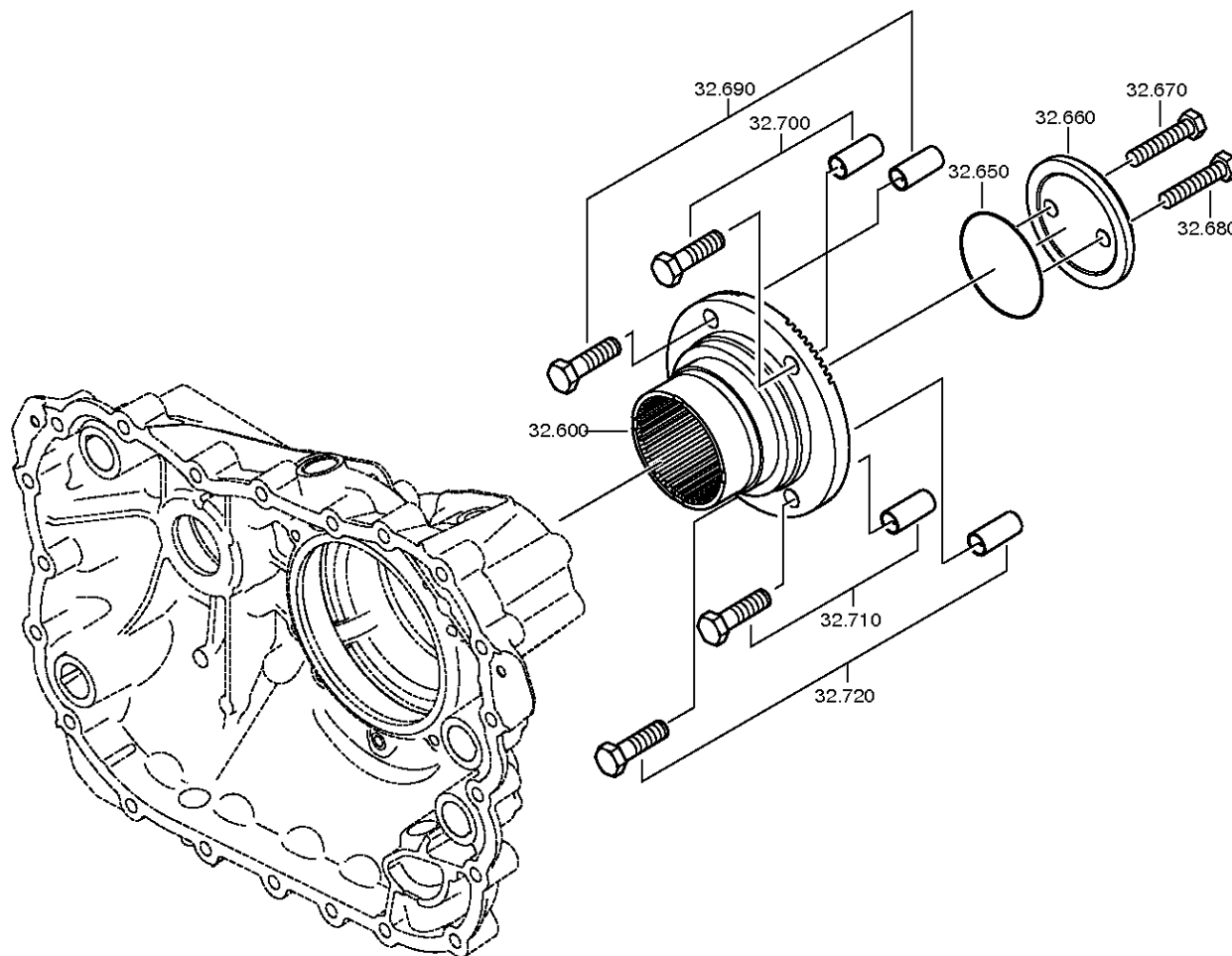
Material number: 1356.007.165

Plant: 161.44.41-1

PLANETARY DRIVE



16 S 2531 TO /
PLANETARY DRIVE



Parts list

Page 1 from 2



Material number: 1356.007.165

Plant: 161.44.04-1

Material-assembly-group-no: 1325.132.005

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	1316.232.039		PLANET CARRIER	1					
40	1316.232.011		PLANET GEAR SET	1			KPL.		
50	0730.109.323		INTERMEDIATE WASHER	1			A=2,30 IN 0730 105 951(2)		
60	1325.232.003		ROLLER	1			KPL.SATZ*PLANETENRAD*LOKAL		
70	0730.109.309		INTERMEDIATE WASHER	1			A=7,90 IN 0730 105 951(2)		
80	1325.232.003		ROLLER	1			KPL.SATZ*PLANETENRAD*LOKAL		
90	0730.109.323		INTERMEDIATE WASHER	1			A=2,30 IN 0730 105 951(2)		
100	1316.332.140		PLANET SHAFT	1					
110	0631.329.147		SLOTTED PIN	1			6X26		
120	0631.329.261		SLOTTED PIN	1			3,5X26		
130	0730.109.323		INTERMEDIATE WASHER	1			A=2,30 IN 0730 105 951(2)		
140	1325.232.003		ROLLER	1			KPL.SATZ*PLANETENRAD*LOKAL		
150	0730.109.309		INTERMEDIATE WASHER	1			A=7,90 IN 0730 105 951(2)		
160	1325.232.003		ROLLER	1			KPL.SATZ*PLANETENRAD*LOKAL		
170	0730.109.323		INTERMEDIATE WASHER	1			A=2,30 IN 0730 105 951(2)		
180	1316.332.140		PLANET SHAFT	1					
190	0631.329.147		SLOTTED PIN	1			6X26		
200	0631.329.261		SLOTTED PIN	1			3,5X26		
210	0730.109.323		INTERMEDIATE WASHER	1			A=2,30 IN 0730 105 951(2)		
220	1325.232.003		ROLLER	1			KPL.SATZ*PLANETENRAD*LOKAL		
230	0730.109.309		INTERMEDIATE WASHER	1			A=7,90 IN 0730 105 951(2)		
240	1325.232.003		ROLLER	1			KPL.SATZ*PLANETENRAD*LOKAL		
250	0730.109.323		INTERMEDIATE WASHER	1			A=2,30 IN 0730 105 951(2)		
260	1316.332.140		PLANET SHAFT	1					
270	0631.329.147		SLOTTED PIN	1			6X26		
280	0631.329.261		SLOTTED PIN	1			3,5X26		
290	0730.109.323		INTERMEDIATE WASHER	1			A=2,30 IN 0730 105 951(2)		
300	1325.232.003		ROLLER	1			KPL.SATZ*PLANETENRAD*LOKAL		
310	0730.109.309		INTERMEDIATE WASHER	1			A=7,90 IN 0730 105 951(2)		
320	1325.232.003		ROLLER	1			KPL.SATZ*PLANETENRAD*LOKAL		
330	0730.109.323		INTERMEDIATE WASHER	1			A=2,30 IN 0730 105 951(2)		
340	1316.332.140		PLANET SHAFT	1					
350	0631.329.147		SLOTTED PIN	1			6X26		
360	0631.329.261		SLOTTED PIN	1			3,5X26		

Parts list

Page 2 from 2



Material number: 1356.007.165

Plant: 161.44.04-1

Material-assembly-group-no: 1325.132.005

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
370	0730.109.323		INTERMEDIATE WASHER	1			A=2,30 IN 0730 105 951(2)		
380	1325.232.003		ROLLER	1			KPL.SATZ*PLANETENRAD*LOKAL		
390	0730.109.309		INTERMEDIATE WASHER	1			A=7,90 IN 0730 105 951(2)		
400	1325.232.003		ROLLER	1			KPL.SATZ*PLANETENRAD*LOKAL		
410	0730.109.323		INTERMEDIATE WASHER	1			A=2,30 IN 0730 105 951(2)		
420	1316.332.140		PLANET SHAFT	1					
430	0631.329.147		SLOTTED PIN	1			6X26		
440	0631.329.261		SLOTTED PIN	1			3,5X26		
500	1325.332.011		BUSH	1					
510	1316.332.130		RING GEAR CARRIER	1					
520	1315.332.041		RING GEAR	1			IN 1316 332 055(1)		
530	0730.513.583		LOCKING WIRE	1			A=3,20 IN 0730 505 052(2)		
540	0735.298.169		AXIAL NEEDLE BEARING	1			103,3X128,4X10,0		
600	1325.332.036		OUTPUT FLANGE	1					
650	---		O-RING	1			ZFF*LOKAL HNG		
660	1312.332.028		WASHER	1					
670	0636.011.777		HEXAGON SCREW	1			M12X60		
680	0636.011.777		HEXAGON SCREW	1			M12X60		
690	---		HEXAGON SCREW	1			SCHUTZKAPPE M14X1,5X50		
---	0636.100.202		HEXAGON SCREW	1			M14X1,5X50		
---	1315.332.067		PROTECTION CAP	1					
700	---		HEXAGON SCREW	1			SCHUTZKAPPE M14X1,5X50		
---	0636.100.202		HEXAGON SCREW	1			M14X1,5X50		
---	1315.332.067		PROTECTION CAP	1					
710	---		HEXAGON SCREW	1			SCHUTZKAPPE M14X1,5X50		
---	0636.100.202		HEXAGON SCREW	1			M14X1,5X50		
---	1315.332.067		PROTECTION CAP	1					
720	---		HEXAGON SCREW	1			SCHUTZKAPPE M14X1,5X50		
---	0636.100.202		HEXAGON SCREW	1			M14X1,5X50		
---	1315.332.067		PROTECTION CAP	1					

Plant

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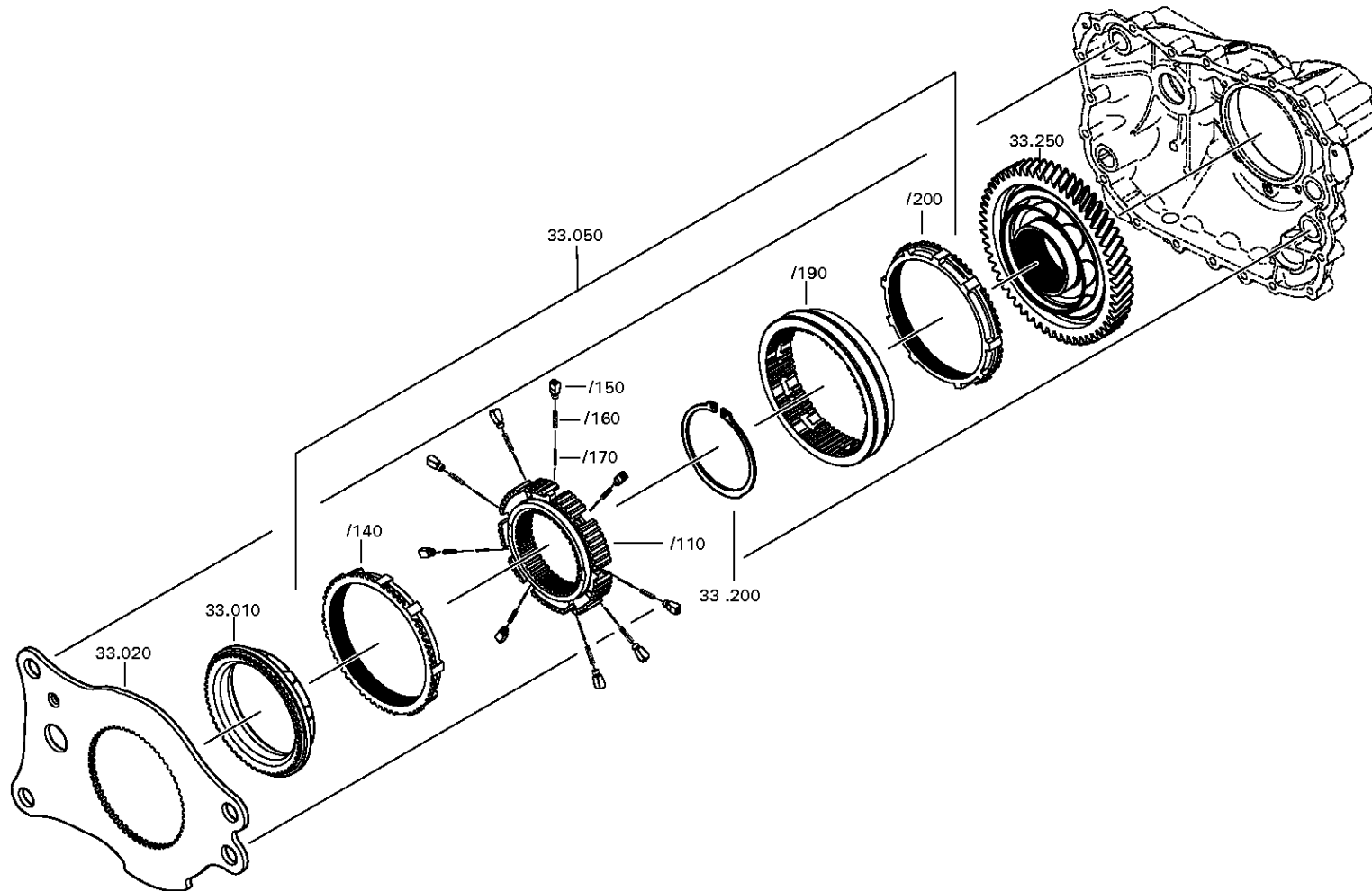
Material number: 1356.007.165

Plant: 161.45.03-1

Material-assembly-group-no: 1325.133.007



16 S 2531 TO /
SYNCHRONIZER



Parts list

Page 1 from 1



Material number: 1356.007.165

Plant: 161.45.03-1

Material-assembly-group-no: 1325.133.007

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	1296.333.050		CLUTCH BODY	1			ENTHALT.IN 1296.333.053(1)		
20	1325.333.016		PLATE	1					
50	1325.233.016		SYNCHRONIZER	1			KPL.GP*DRUCKGUSS*LOKAL		
/110	1313.333.001		SYNCHRO.BODY	1			ENTHALT.IN 1296 333 014(1)		
/140	---		SYNCHRO.RING	1			ZFF*LOKAL HNG		
---	1296.333.044		SYNCHRO.RING	1					
---	1296.333.045		SYNCHRO.RING	1					
---	1297.333.137		SYNCHRO.RING	1			ZF-BK165/74		
/150	1240.304.278		PRESSURE PART	9					
/160	0732.040.385		COMPRESSION SPRING	9					
/170	0732.040.386		COMPRESSION SPRING	9					
/190	1325.333.018		SLIDING SLEEVE	1					
/200	---		SYNCHRO.RING	1			ZFF*LOKAL HNG		
---	1296.333.044		SYNCHRO.RING	1					
---	1296.333.045		SYNCHRO.RING	1					
---	1297.333.137		SYNCHRO.RING	1			ZF-BK165/74		
200	0630.501.175		RETAINING RING	1			125X3,7		
250	6093.204.010		CLUTCH BODY	1			KPL. E33		

Plant

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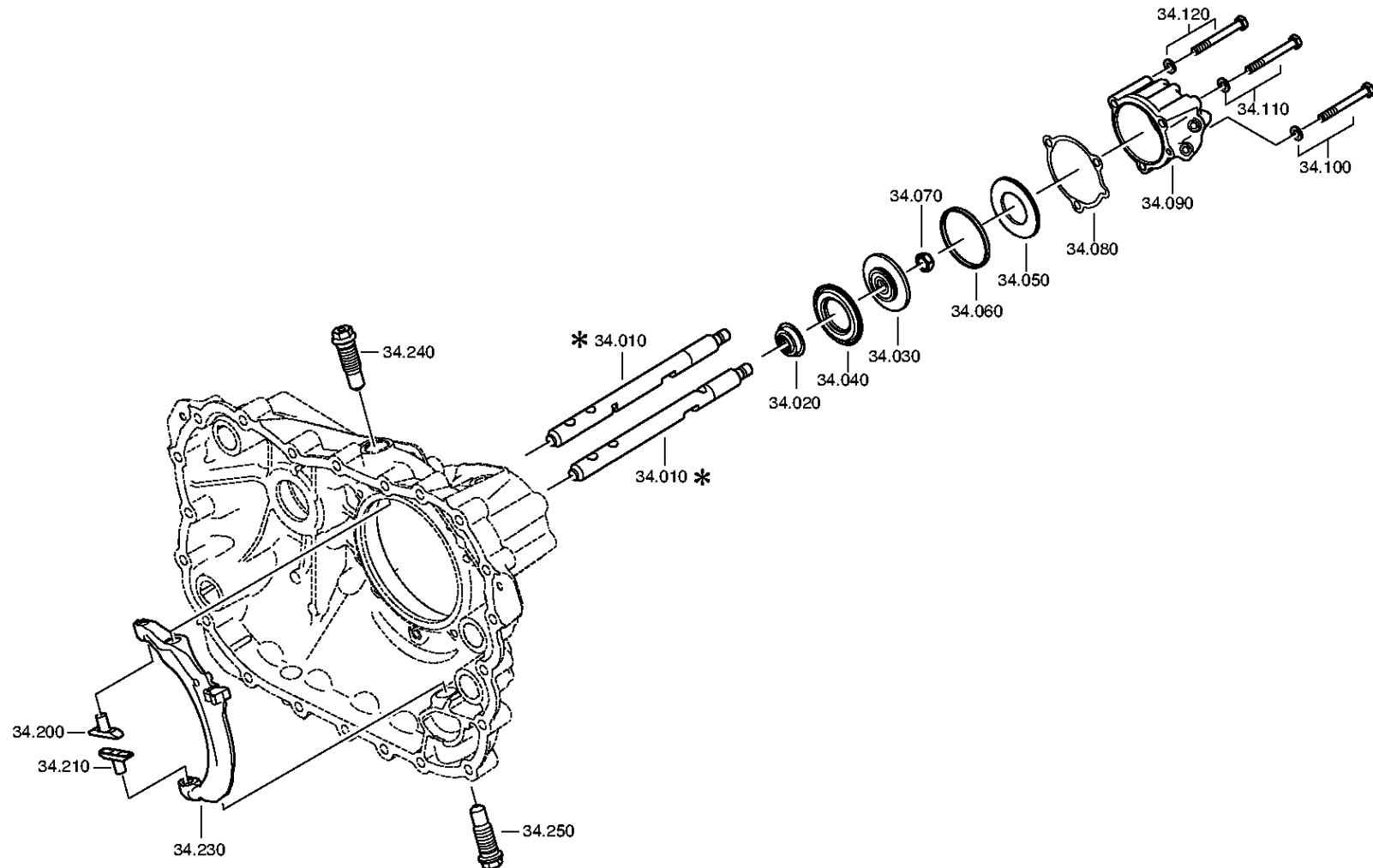
Material number: 1356.007.165

Plant: 161.46.01-1

GP SHIFT SYSTEM



16 S 2531 TO /
GP SHIFT SYSTEM



Plant

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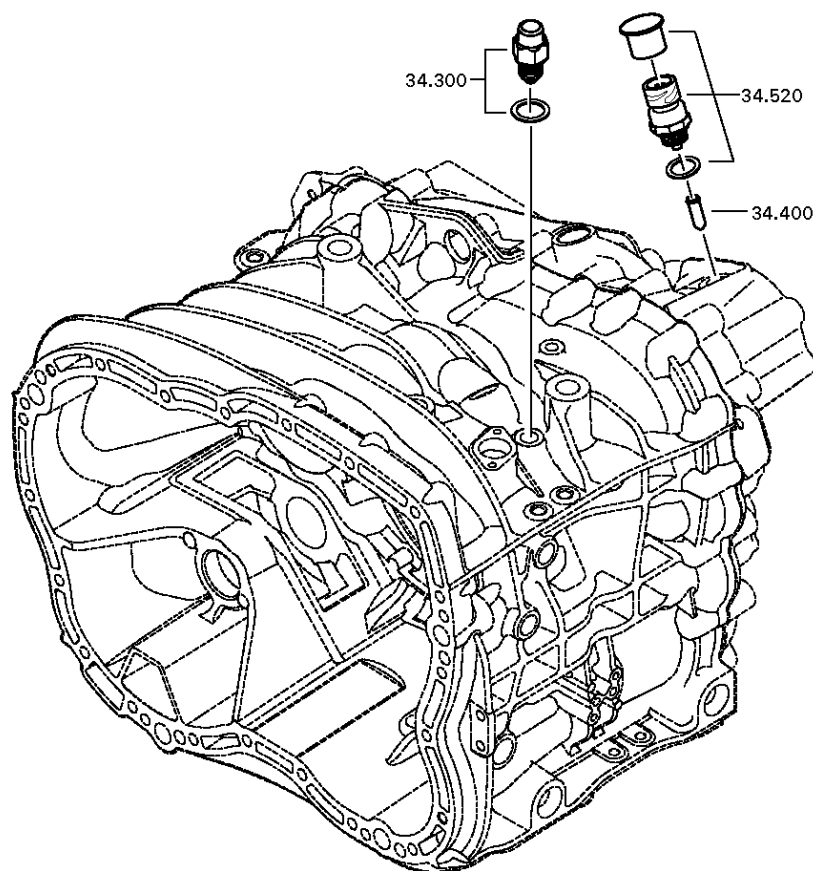
Material number: 1356.007.165

Plant: 161.46.40-1

GP SHIFT SYSTEM



16 S 2531 TO /
GP SHIFT SYSTEM



Parts list

Page 1 from 2



Material number: 1356.007.165

Plant: 161.46.01-1

Material-assembly-group-no: 1325.134.007

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	1325.334.017		GEAR SHIFT RAIL	1					
20	0750.112.253		FLANGE PACKING	1			25X40X15		
30	---		PISTON	1			GP		
---	1315.334.034		PISTON	1			ENTHALT.IN 1315 334 040(2)		
---	1315.334.063		PISTON	1					
40	0734.307.294		SEALING RING	1			49X91X7,4 FA.KACO		
50	0734.307.294		SEALING RING	1			49X91X7,4 FA.KACO		
60	0750.112.066		GUIDE RING	1					
70	0737.300.037		LOCKING NUT	1			MS16X1,5		
80	0501.322.778		GASKET	1					
90	1325.334.013		CYLINDER	1			GP		
100	---		HEXAGON SCREW	1		Z00007349210	M10X90		
---	0636.015.688		HEXAGON SCREW	1		Z00007349212	M10X90		
---	0630.100.294		WASHER	1		Z00007158111			
110	---		HEXAGON SCREW	1		Z00007349210	M10X90		
---	0636.015.688		HEXAGON SCREW	1		Z00007349212	M10X90		
---	0630.100.294		WASHER	1		Z00007158111			
120	---		HEXAGON SCREW	1		Z00007349210	M10X90		
---	0636.015.688		HEXAGON SCREW	1		Z00007349212	M10X90		
---	0630.100.294		WASHER	1		Z00007158111			
200	1325.334.008		SLIDING PAD	1			GP		
210	1325.334.008		SLIDING PAD	1			GP		
230	1325.334.007		GEARSHIFT FORK	1			GP		
240	---		SWIVEL SCREW	1			O.SCHEIBE*ZF KAMA		
---	---		SWIVEL SCREW	1		Z00015655010	WTB*ZF KAMA M24X1,5		
---	1324.334.008		SWIVEL SCREW	1		Z00015655010	M24X1,5X74,5		
---	1315.334.074		SWIVEL SCREW	1		Z00015655010	M24X1,5X74,5		
250	---		SWIVEL SCREW	1			O.SCHEIBE M26X1,5 SK6		
---	1315.334.068		SWIVEL SCREW	1			M26X1,5X129,5		
300	---		DETENT PLUNGER	1			145N*50N.M		
---	1324.207.035		DETENT PLUNGER	1			KPL. *145 N		
---	0730.008.604		SEALING RING	1					
400	1295.212.006		PIN	1			KPL.		

Parts list

Page 2 from 2



Material number: 1356.007.165

Plant: 161.46.01-1

Material-assembly-group-no: 1325.134.007

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
520	---		SWITCH	1		Z00025033610	SCHL*45N.M*DICHTRING*BAJONETT* SCHUTZKAPPE		
---	0501.331.660		SWITCH	1		Z00025033617			
---	0634.801.062		SEALING RING	1		Z00025033617	18X24		
---	0700.300.427		PROTECTION CAP	1		Z00025033617			

Plant

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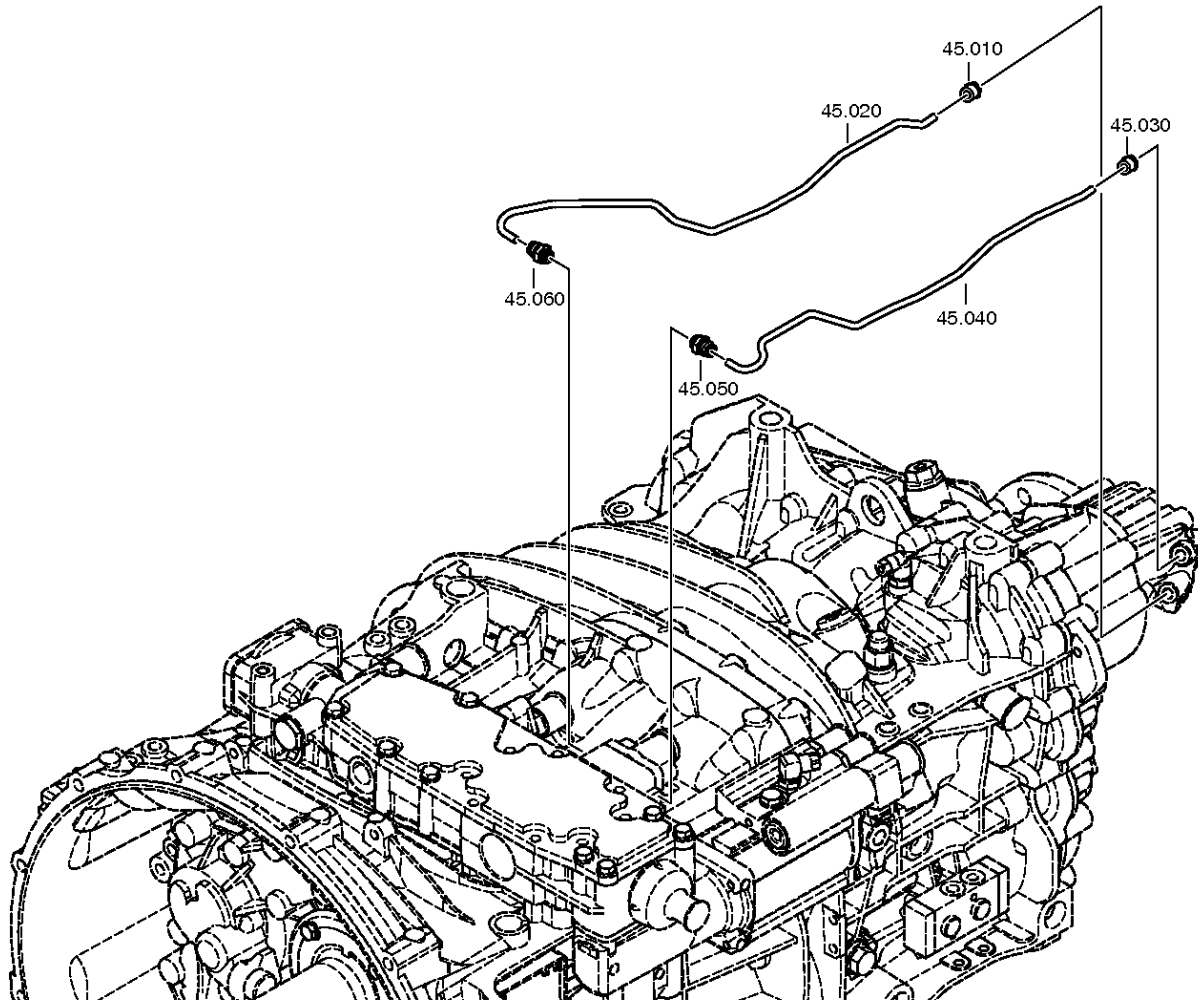
Material number: 1356.007.165

Plant: 161.57.04-1

Material-assembly-group-no: 1325.145.007



16 S 2531 TO /
RANGE SELECTION



Parts list

Page 1 from 1



Material number: 1356.007.165

Plant: 161.57.04-1

Material-assembly-group-no: 1325.145.007

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	0501.324.029		PLUG-IN COUPLING	1					
20	1325.345.009		TUBE	1			H-H		
30	0501.324.029		PLUG-IN COUPLING	1					
40	1325.345.008		TUBE	1			E13MP		
50	0501.326.099		PLUG-IN COUPLING	1			M14X1,5 ROHR 8MM		
60	0501.326.099		PLUG-IN COUPLING	1			M14X1,5 ROHR 8MM		

Plant

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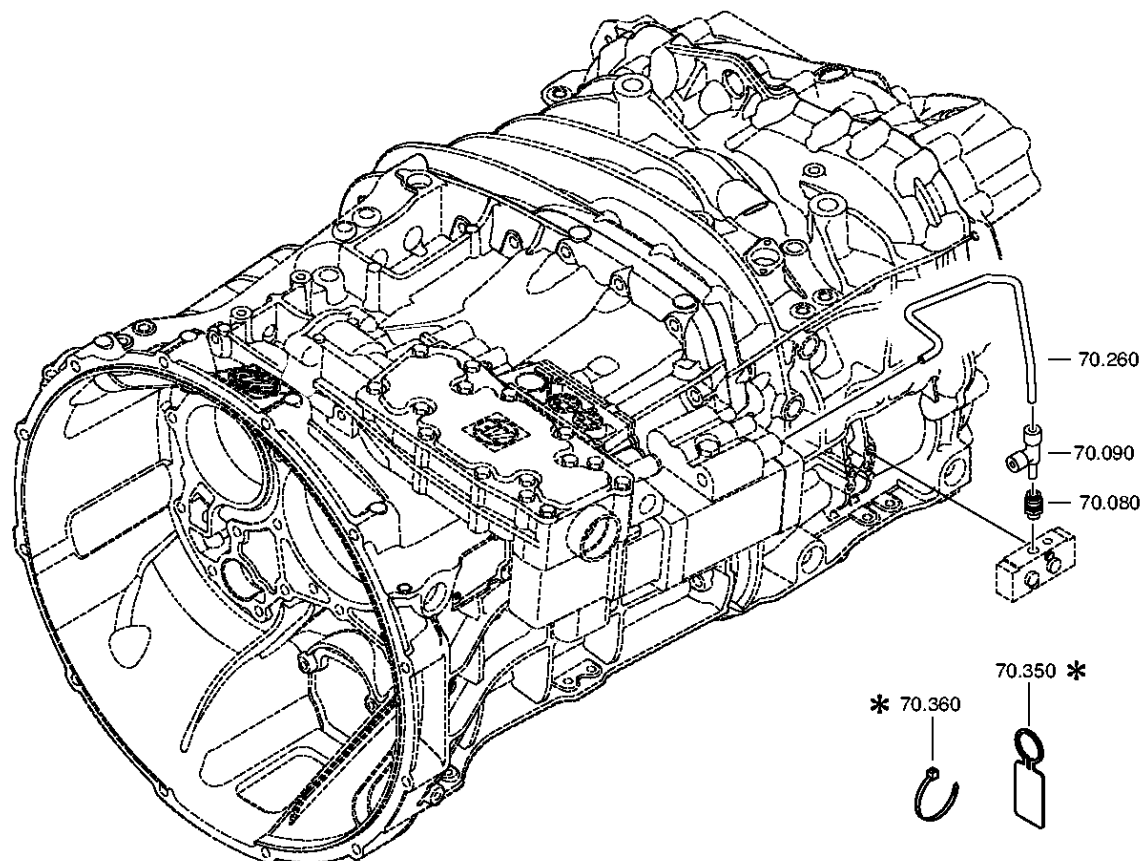
Material number: 1356.007.165

Plant: 161.70.05-1

Material-assembly-group-no: 1356.170.003



16 S 2531 TO /
SHUT-OFF VALVE



Parts list

Page 1 from 1



Material number: 1356.007.165

Plant: 161.70.05-1

Material-assembly-group-no: 1356.170.003

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
80	0501.324.477		PLUG-IN COUPLING	1			M12X1,5 ROHR 8MM		
90	0501.324.457		PLUG-IN COUPLING	1					
92	0637.510.118		PROTECTING SLEEVE	1					
260	1325.345.039		TUBE	1		Z00007299711	8X1 ZWISCHEN DBV UND GV		

Plant

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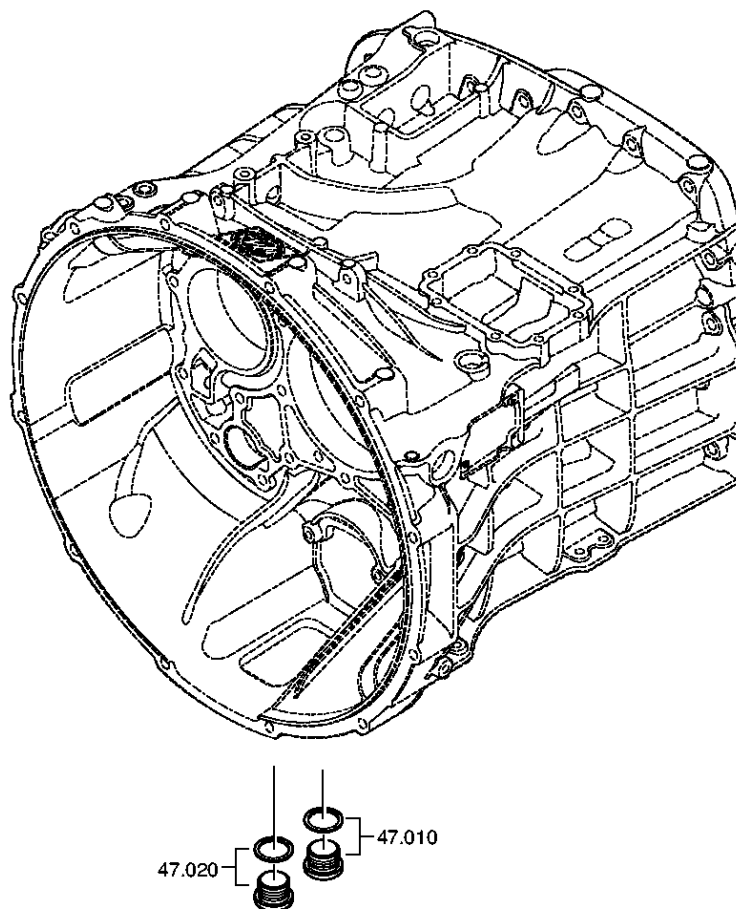
Material number: 1356.007.165

Plant: 161.90.08

Material-assembly-group-no: 1325.147.009



16 S 2531 TO /
SCREW PLUG



Parts list

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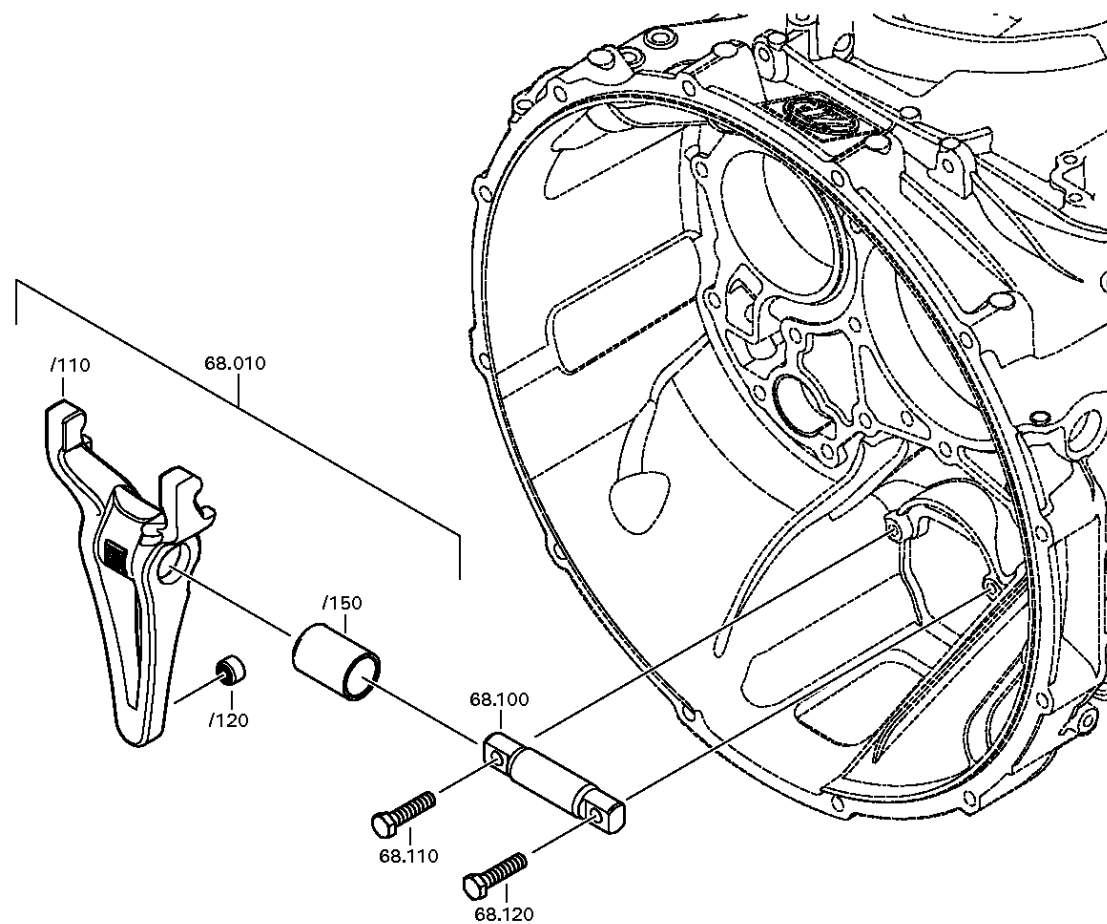
Material number: 1356.007.165

Plant: 161.90.08

Material-assembly-group-no: 1325.147.009

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	---		SCREW PLUG	1		Z00010164013	50N.M*DICHTRING M22X1,5		
---	0636.100.824		SCREW PLUG	1		Z00010164019	M22X1,5		
---	0730.009.515		SEALING RING	1		Z00010164019	A22X27		
20	---		SCREW PLUG	1		Z00010164013	50N.M*DICHTRING M22X1,5		
---	0636.100.824		SCREW PLUG	1		Z00010164019	M22X1,5		
---	0730.009.515		SEALING RING	1		Z00010164019	A22X27		



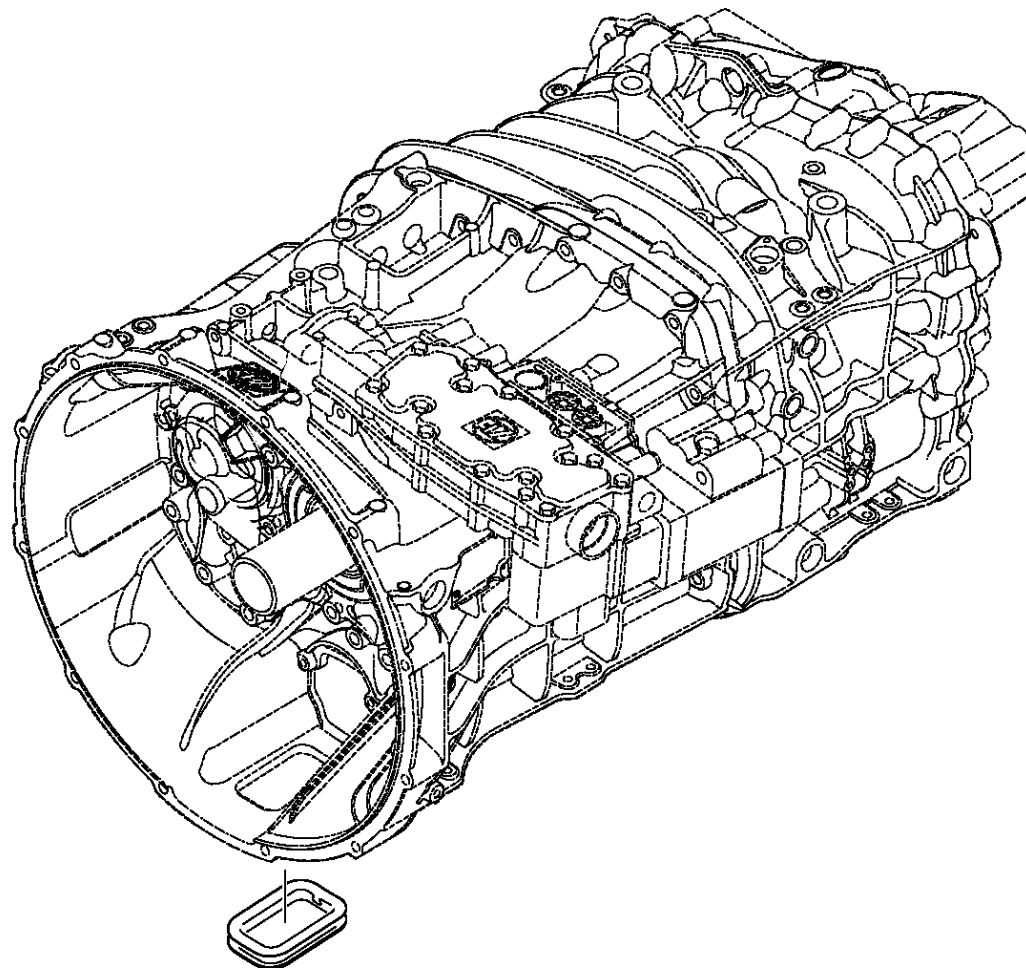
Material number: 1356.007.165

Plant: 161.93.17-1

CLUTCH RELEASE DEVICE



16 S 2531 TO /
CLUTCH RELEASE DEVICE



Parts list

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Material number: 1356.007.165

Plant: 161.93.76-1

Material-assembly-group-no: 1325.168.011

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	1325.268.009		RELEASE FORK	1			KPL*GABELWEITE 94,0*KUGEL D=12*I=1,76*OHNE ROLLE*1-SK*LOKAL		
/110	---		RELEASE FORK	1			ZFF*LOKAL HNG		
/120	0501.315.159		BALL CUP	1			KS12-18-12		
/150	0501.323.199		BEARING BUSH	1			30x37x50		
100	1325.368.008		RELEASE SHAFT	1			A=119,8mm		
110	0636.016.416		HEXAGON SCREW	1			M12X50		
120	0636.016.416		HEXAGON SCREW	1			M12X50		
262	1315.301.230		PROTECTION CAP	1					

Technical Cover

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Material number: 6093.050.070



IT 3 ECOSPLIT T /

Pos.	Information	Amendment number
001	Use case -----	
002	Customer China National Heavy Duty Truck	
003	City Jinan	
004	DUNS 65-389-6704	
005	Use case -----	
006	Customer Dongfeng Motor	
007	City Shiyan City	
008	DUNS 65-452-5021	
009	Product description -----	
010	BRAKE POWER MAX 500 kW	
011	BRAKE TORQUE MAX 3500 Nm	
012	RATIO 2.035	
013	DESIGN, TRANSMISSION MANUALLY	

Assembly group overview

Page 1 from 1

Material number: 6093.050.070



16 S 2531 TO /

Graphics	Pos.	Material number	Name	Quantity	Amend. no.	Techn. Info.
	910	6093.001.023	IT 3 TRUCK	1		
155.C2.03-1	916	6070.010.004	EST 54 T	1		
155.E2.01-1	920	6093.109.800	ANCHORAGE	1		
155.F5.01-1	990	6070.110.027	SOFTWARE	1		

Plant

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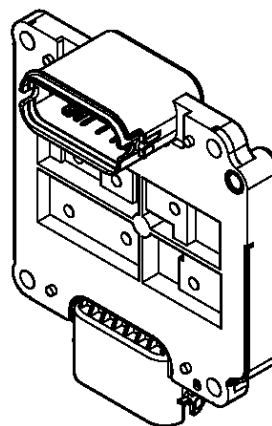
Material number: 6093.050.070

Plant: 155.C2.03-1

Material-assembly-group-no: 6070.010.004



16 S 2531 TO /
EST 54 T



Parts list

Page 1 from 1



Material number: 6093.050.070

Plant: 155.C2.03-1

Material-assembly-group-no: 6070.010.004

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
916	6070.010.004		EST 54 T	1			INTARDER 3		

Plant

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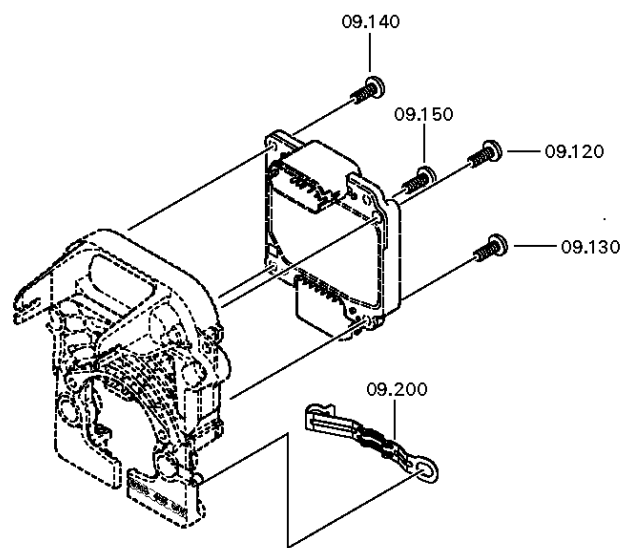
Material number: 6093.050.070

Plant: 155.E2.01-1

Material-assembly-group-no: 6093.109.800



16 S 2531 TO /
ANCHORAGE



Parts list

Page 1 from 1



Material number: 6093.050.070

Plant: 155.E2.01-1

Material-assembly-group-no: 6093.109.800

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
120	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
130	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
140	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
150	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
200	0501.326.597		CLAMPING BRACKET	1					

Plant

Page 1 from 1

Material number: 6093.050.070

Plant: 155.F5.01-1

Material-assembly-group-no: 6070.110.027



16 S 2531 TO /
SOFTWARE



Parts list

Page 1 from 1



Material number: 6093.050.070

Plant: 155.F5.01-1

Material-assembly-group-no: 6070.110.027

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	6070.210.028		FLASH FILE	1			IT3*STANDARD*ABS*AP122*NP		
/10	6070.310.110		BASIC PROGRAM	1			IT3*STANDARD*AP122		
/20	6070.310.054		DATA RECORD	1			IT3*STANDARD*ABS*AP122*NP		
30	6070.310.025		CUSTOMER BOOT LOADER	1			IT3*ZF STANDARD		



Pos.	Information	Amendment number
001	Use case -----	
002	Customer ZF Drivtech Co., Ltd.	
003	City Hangzhou, Zhejiang	
004	DUNS 54-526-6199	
005	Use case -----	
006	Customer China National Heavy Duty Truck	
007	City Jinan	
008	DUNS 65-389-6704	
009	Product description -----	
010	RATIO 2.035	
012	RETARDER ADAPTION APPLICATION TRUCK	
013	DESIGN, RETARDER POWER	
014	RETARDER ADAPTION USAGE ECOSPLIT/ASTRONIC	
015	ATTACHM. POS., HEAT EXCHANGER LEFT HAND	
016	DIA,WATER CONN,HEAT ECXHANGER 60	
017	DESIGN WATER DRAIN HEAT EXCHANGER WA-VORNE	
018	ATTACHMENT POS. ELECTR.CONTROL TOP	
019	DESIGN, CENTRAL WIRING WT LINKS	

Assembly group overview

Page 1 from 1



Material number: 6093.001.023

16 S 2531 TO /

Graphics	Pos.	Material number	Name	Quantity	Amend. no.	Techn. Info.
155.01.10-1	110	6093.101.012	HOUSING	1		
155.02.01-1	210	6093.102.002	CONTROL UNIT	1		
155.02.80-1	220	6093.102.800	CONTROL UNIT	1		
155.04.01-1	300	6093.104.008	RETARDER	1		
155.04.80-1	310	6093.104.800	RETARDER	1		
155.05.02-1	400	6093.105.011	HEAT EXCHANGER	1		
155.05.81-1	410	6093.105.800	HEAT EXCHANGER	1		
155.07.02-1	500	6093.107.001	WIRING	1		

Plant

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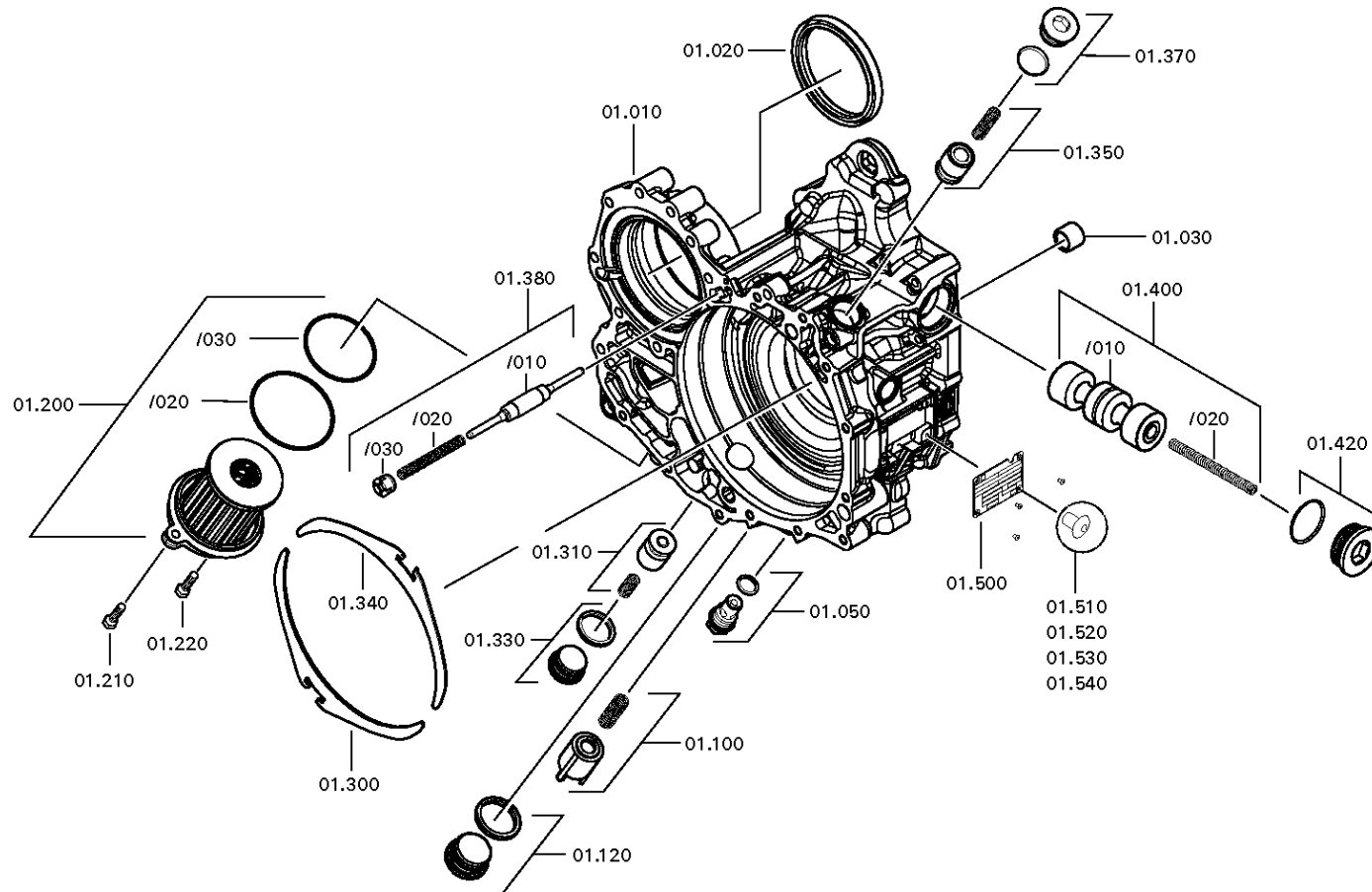
Material number: 6093.001.023

Plant: 155.01.10-1

Material-assembly-group-no: 6093.101.012



16 S 2531 TO /
HOUSING



Parts list

Page 1 from 2



Material number: 6093.001.023

Plant: 155.01.10-1

Material-assembly-group-no: 6093.101.012

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	6093.301.056		HOUSING	1			LKW*GD*ALLRAD*ENTLEERVENTIL		
20	---		SHAFT SEAL	1					
---	0734.300.421		SHAFT SEAL	1			105,0X125,0X12,0/16,0		
30	0635.301.124		NEEDLE BEARING	1		Z00035462710	18X26X20		
50	---		SCREW PLUG	1			60N.M*O-RING MIT GLEIT-IE M24X1,5		
---	0736.300.163		SCREW PLUG	1		Z00010176411	M24X1,5 M24X1,5		
---	0634.349.854		O-RING	1			21X2		
100	6093.201.021		PISTON	1			FUER BEFUELLVENTIL		
/10	6093.301.044		PISTON	1			SCHNELLBEFUELLVENTIL		
/20	0732.042.389		COMPRESSION SPRING	1					
120	---		SCREW PLUG	1			M42X1,5		
---	0636.100.479		SCREW PLUG	1		Z00010744510	M42X1,5		
---	0634.349.856		O-RING	1			38,0X2,5		
200	0501.215.163		SUCTION FILTER	1			KPL. *		
/20	0634.316.699		O-RING	1			91X3		
/30	0634.316.700		O-RING	1			78X3		
210	0636.100.798		HEXAGON SCREW	1		Z00007891411	M8X32		
220	0636.100.798		HEXAGON SCREW	1		Z00007891411	M8X32		
300	6093.301.051		OIL DAM	1					
310	6093.201.042		PISTON	1			KPL. FÜR REDUZ.		
/10	6093.301.085		PISTON	1			REDUZ.-EINRICHTUNG		
/20	0732.300.025		COMPRESSION SPRING	1					
330	---		SCREW PLUG	1			M33X2		
---	0736.300.153		SCREW PLUG	1		Z00010174810	M33X2 ERZ. M33X2		
---	0634.349.855		O-RING	1			30,0X2,5		
340	6093.301.051		OIL DAM	1					
350	6093.201.042		PISTON	1			KPL. FÜR REDUZ.		
/10	6093.301.085		PISTON	1			REDUZ.-EINRICHTUNG		
/20	0732.300.025		COMPRESSION SPRING	1					
370	---		SCREW PLUG	1			M33X2		
---	0736.300.153		SCREW PLUG	1		Z00010174810	M33X2 ERZ. M33X2		
---	0634.349.855		O-RING	1			30,0X2,5		
380	6093.201.041		PISTON	1			FUER ENTLEERVENTIL		
/10	6093.301.069		PISTON	1			ENTLEERVENTIL		

Parts list

Page 2 from 2



Material number: 6093.001.023

Plant: 155.01.10-1

Material-assembly-group-no: 6093.101.012

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
/20	0732.042.856		COMPRESSION SPRING	1			CFT23-WSV		
400	6093.201.020		PISTON	1			FUER HAUPTUMSCHALTVENTIL		
/10	6093.301.043		PISTON	1			HAUPTUMSCHALTVENTIL		
/20	0732.042.558		COMPRESSION SPRING	1					
420	---		SCREW PLUG	1			M48X1,5		
---	0736.300.223		SCREW PLUG	1			M48X1,5		
---	0634.349.857		O-RING	1			42,0X2,5		
500	0730.365.241		TYPE PLATE	1			EINHEITSSCH. VERDREHSICHER		
510	0731.300.027		BLIND RIVET	1					
520	0731.300.027		BLIND RIVET	1					
530	0731.300.027		BLIND RIVET	1					
540	0731.300.027		BLIND RIVET	1					

Plant

Page 1 from 4

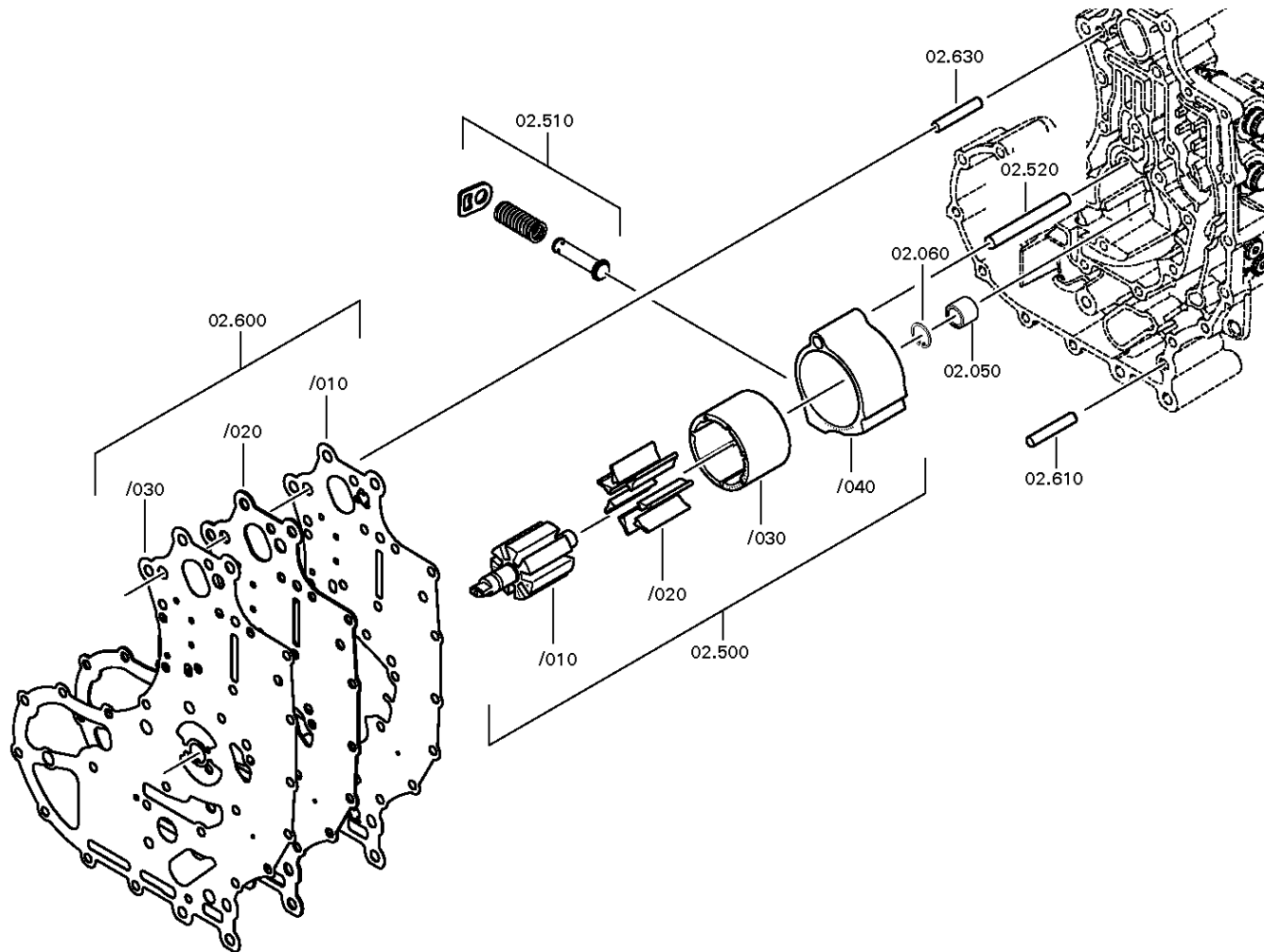
Material number: 6093.001.023

Plant: 155.02.01-1

CONTROL UNIT



16 S 2531 TO /
CONTROL UNIT



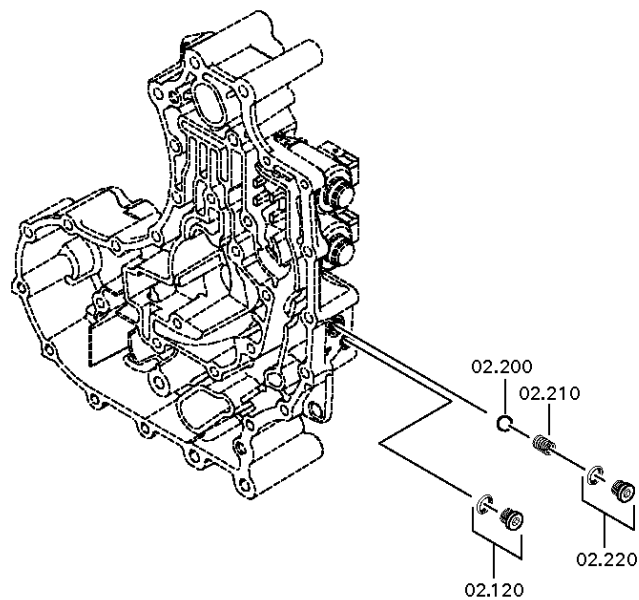
Material number: 6093.001.023

Plant: 155.02.01-2

CONTROL UNIT



16 S 2531 TO /
CONTROL UNIT



Plant

Page 3 from 4

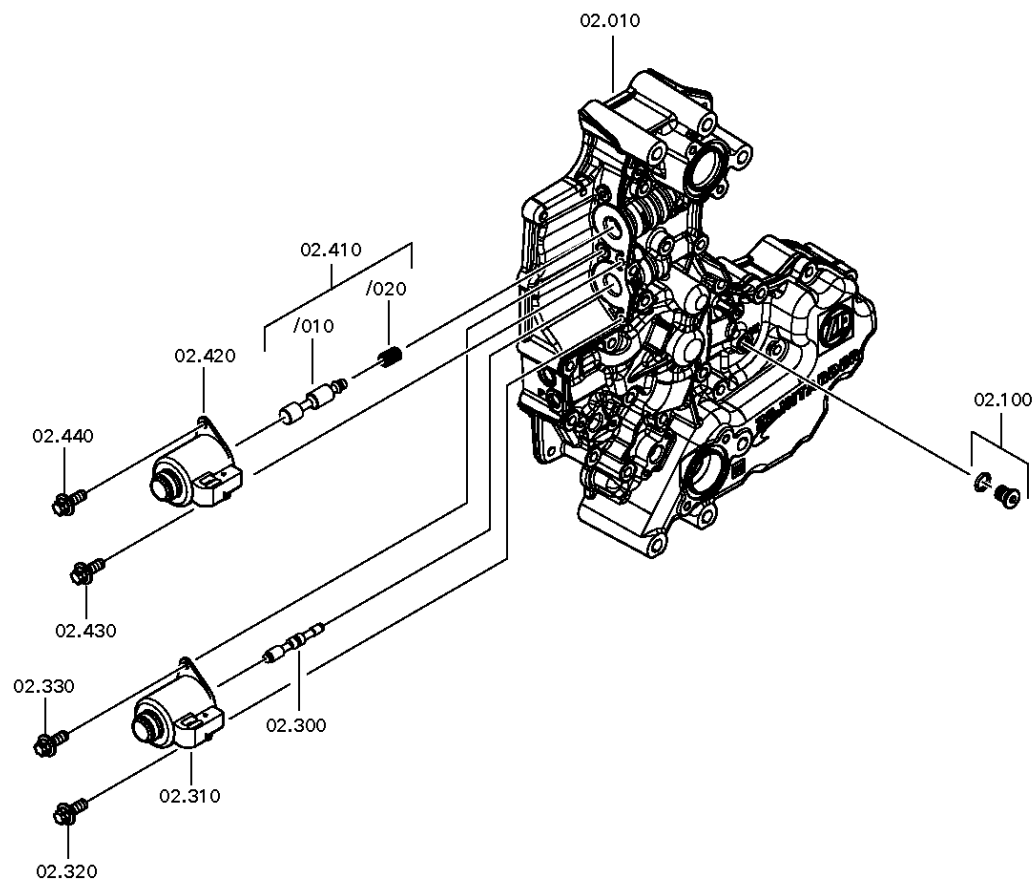
Material number: 6093.001.023

Plant: 155.02.01-3

CONTROL UNIT

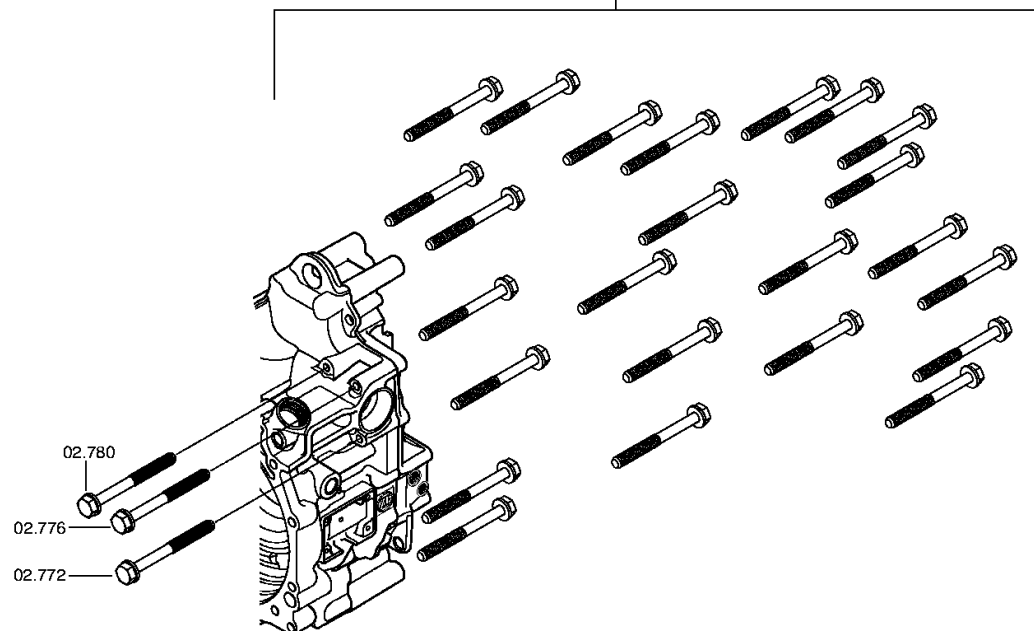


16 S 2531 TO /
CONTROL UNIT



Bildtafel:
Figure: 155.02.80
Figure:
Figura:

02.700	02.716	02.732	02.748	02.764	02.792
02.704	02.720	02.736	02.752	02.768	02.796
02.708	02.724	02.740	02.756	02.784	02.800
02.712	02.728	02.744	02.760	02.788	02.804



Parts list

Page 1 from 3



Material number: 6093.001.023

Plant: 155.02.01-1

Material-assembly-group-no: 6093.102.002

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	6093.302.042		CONTROL HOUSING	1			INTARDER IT3		
50	0635.301.425		NEEDLE BEARING	1			16X24X22		
60	0630.502.010		RETAINING RING	1			24X1,2		
100	---		SCREW PLUG	1		Z00010162912	25N.M*O-RING M12X1,5		
---	0636.100.792		SCREW PLUG	1		Z00010162916	M12X1,5		
---	0634.349.853		O-RING	1			9,5X2,0		
120	---		SCREW PLUG	1		Z00010162912	25N.M*O-RING M12X1,5		
---	0636.100.792		SCREW PLUG	1		Z00010162916	M12X1,5		
---	0634.349.853		O-RING	1			9,5X2,0		
200	0635.460.023		BALL	1			12		
210	1204.304.116		COMPRESSION SPRING	1					
220	---		SCREW PLUG	1		Z00010111911	25N.M*O-RING MIT GLEIT-IE M14X1,5		
---	0636.100.689		SCREW PLUG	1		Z00010111910	M14X1,5		
---	0634.349.858		O-RING	1			11X2		
300	6093.302.025		PISTON	1			FUER STEUERVENTIL		
310	0501.330.120		MAGNET	1		Z00016552610			
320	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
330	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
410	6093.202.003		PISTON	1		Z00009388710	FUER SCHALTVENTIL		
/10	6093.302.039		PISTON	1					
/20	0732.042.270		COMPRESSION SPRING	1					
420	0501.330.120		MAGNET	1		Z00016552610			
430	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
440	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
500	0501.217.385		PUMP	1		Z00017143510			
/10	0501.326.406		ROTOR	1					
/20	0501.326.405		PENDULUM	7					
/30	0501.326.407		CAGE	1					
/40	0501.325.970		RING SLIDE	1					
510	6093.203.001		SET OF SPRINGS	1			KPL. PUMPE		

Parts list

Page 2 from 3



Material number: 6093.001.023

Plant: 155.02.01-1

Material-assembly-group-no: 6093.102.002

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
520	0631.306.874		CYLINDRICAL PIN	1			12X100		
600	0501.217.473		GASKET	1		Z00010574910	KPL. SERIENWERKZEUG ZWISCHENBLECH		
/10	0501.326.584		GASKET	1			SERIENWERKZEUG ZWISCHENBLECH IT-GEHAEUSE 451mmx379mmx0, 33mm		
/20	0501.326.586		INTERMEDIATE PLATE	1			SERIENWERKZEUG ZWISCHENBLECH IT-GEHAEUSE		
/30	0501.326.585		GASKET	1			SERIENWERKZEUG ZWISCHENBLECH ST-GEHAEUSE 451mmx379mmx0, 33mm		
610	0631.100.005		CYLINDRICAL PIN	1			10X75		
630	0631.100.005		CYLINDRICAL PIN	1			10X75		
700	0736.300.642		HEXAGON SCREW	1			M8X80		
704	0736.300.642		HEXAGON SCREW	1			M8X80		
708	0736.300.642		HEXAGON SCREW	1			M8X80		
712	0736.300.642		HEXAGON SCREW	1			M8X80		
716	0736.300.642		HEXAGON SCREW	1			M8X80		
720	0736.300.642		HEXAGON SCREW	1			M8X80		
724	0736.300.642		HEXAGON SCREW	1			M8X80		
728	0736.300.642		HEXAGON SCREW	1			M8X80		
732	0736.300.642		HEXAGON SCREW	1			M8X80		
736	0736.300.642		HEXAGON SCREW	1			M8X80		
740	0736.300.642		HEXAGON SCREW	1			M8X80		
744	0736.300.642		HEXAGON SCREW	1			M8X80		
748	0736.300.642		HEXAGON SCREW	1			M8X80		
752	0736.300.642		HEXAGON SCREW	1			M8X80		
756	0736.300.642		HEXAGON SCREW	1			M8X80		
760	0736.300.642		HEXAGON SCREW	1			M8X80		
764	0736.300.642		HEXAGON SCREW	1			M8X80		
768	0736.300.642		HEXAGON SCREW	1			M8X80		
772	0736.300.642		HEXAGON SCREW	1			M8X80		
776	0736.300.642		HEXAGON SCREW	1			M8X80		
780	0736.300.642		HEXAGON SCREW	1			M8X80		

Parts list

Page 3 from 3



Material number: 6093.001.023

Plant: 155.02.01-1

Material-assembly-group-no: 6093.102.002

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
784	0736.300.642		HEXAGON SCREW	1			M8X80		
788	0736.300.642		HEXAGON SCREW	1			M8X80		
792	0736.300.642		HEXAGON SCREW	1			M8X80		
796	0736.300.642		HEXAGON SCREW	1			M8X80		
800	0736.300.642		HEXAGON SCREW	1			M8X80		
804	0736.300.642		HEXAGON SCREW	1			M8X80		

Plant

Page 1 from 2

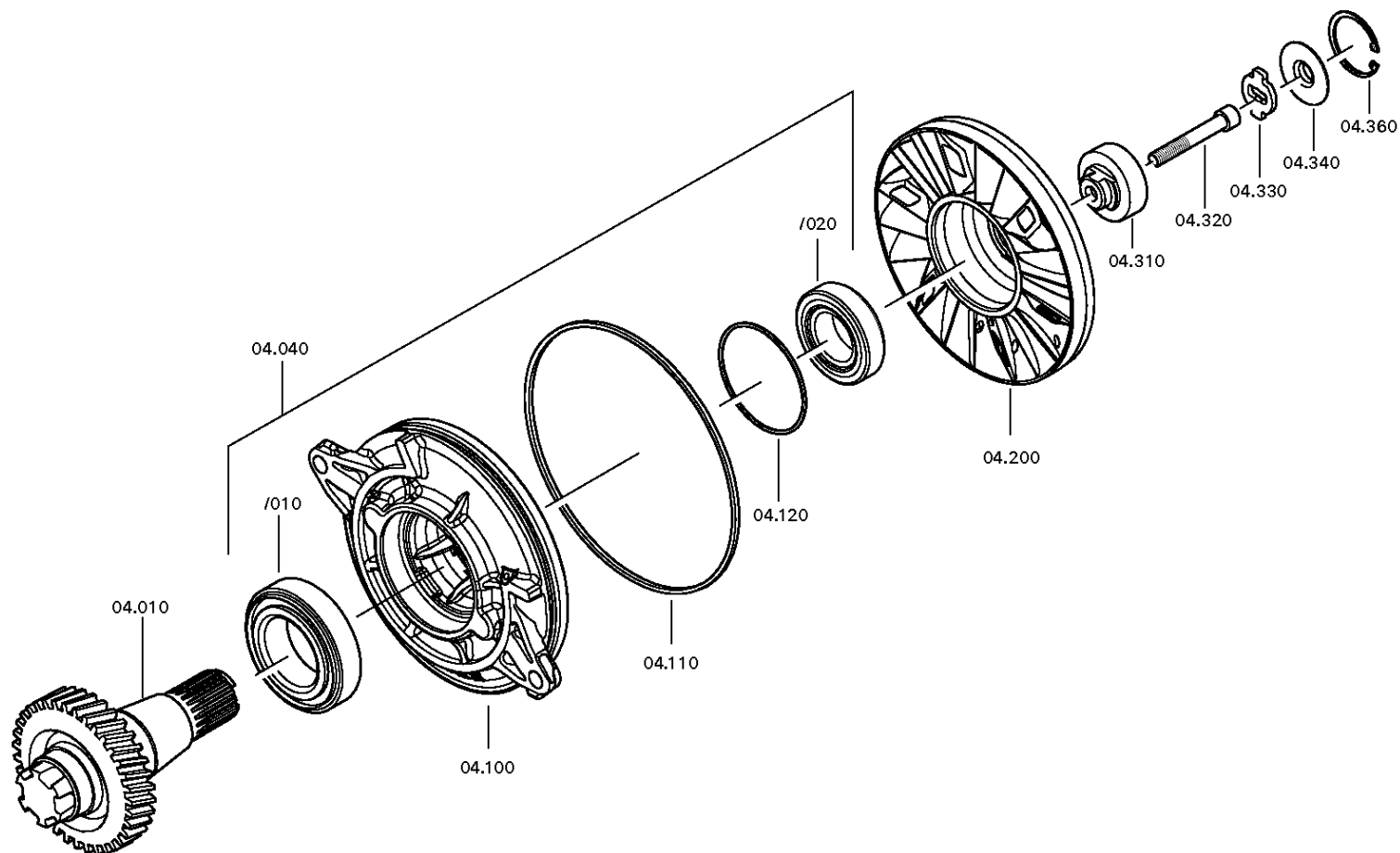
Material number: 6093.001.023

Plant: 155.04.01-1

RETARDER



16 S 2531 TO /
RETARDER



Plant

Page 2 from 2

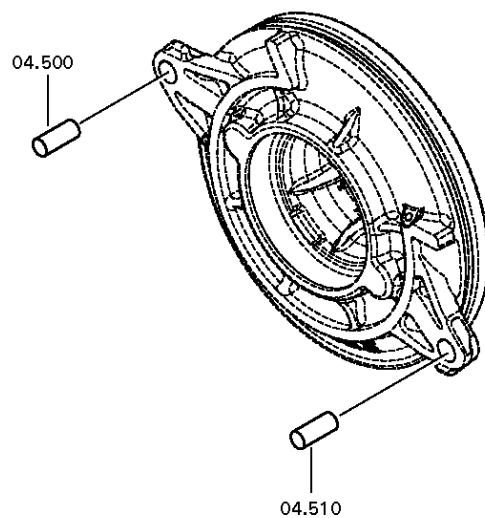
Material number: 6093.001.023

Plant: 155.04.80-1

RETARDER



16 S 2531 TO /
RETARDER



Parts list

Page 1 from 1



16 S 2531 TO /

Material number: 6093.001.023

Plant: 155.04.01-1

Material-assembly-group-no: 6093.104.008

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	6093.304.079		PINION SHAFT	1			POWER*Z28		
40	---		TAPERED ROLLER BEARING	1					
---	6093.204.008		TAPERED ROLLER BEARING	1			KPL.LAGERSATZ* FA.NTN		
/10	0735.372.115		TAPERED ROLLER BEARING	1			63,500X112,712X30,162		
/20	0735.300.376		TAPERED ROLLER BEARING	1			45,00X85,00X24,75		
---	6093.204.002		TAPERED ROLLER BEARING	1			KPL.LAGERSATZ FA.TIMKEN		
/10	0735.372.110		TAPERED ROLLER BEARING	1			63,500X112,712X30,163		
/20	0735.372.200		TAPERED ROLLER BEARING	1			45,00X85,00X24,75		
100	6093.304.089		STATOR	1			21 SCHAUFELN		
110	0634.349.849		O-RING	1		Z00028038310	230X5		
120	0750.113.011		RECTANGULAR RING	1			95,0X100,0X2,2		
200	6093.304.093		ROTOR	1					
310	6093.304.106		DRIVER DISC	1		Z00023585610			
320	0636.102.995		CAP SCREW	1		Z00027000110	M12X120		
330	6093.304.034		CROSS DISC	1					
340	6093.304.035		SEALING WASHER	1					
360	0630.502.029		RETAINING RING	1			55X2		
500	0631.306.097		CYLINDRICAL PIN	1			16X36		
510	0631.306.097		CYLINDRICAL PIN	1			16X36		

Plant

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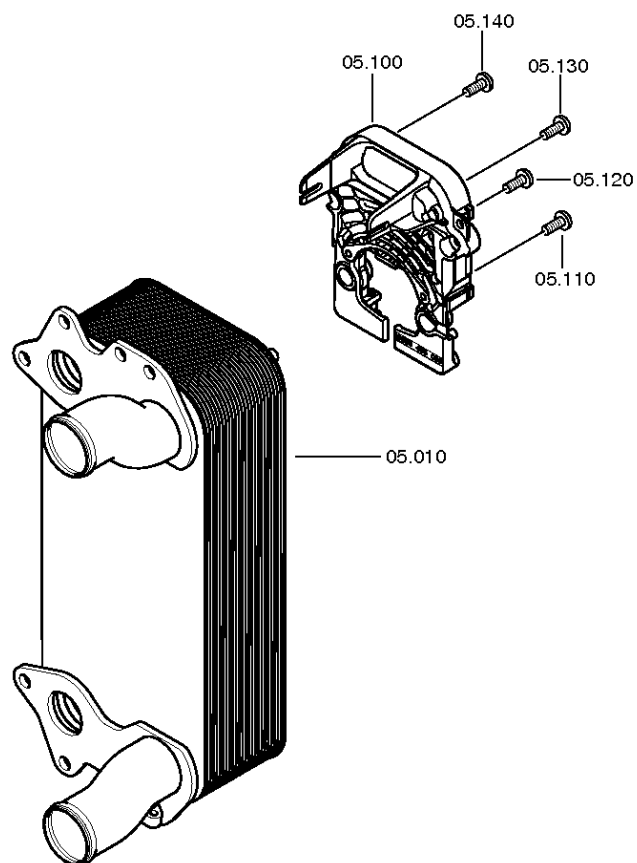
Material number: 6093.001.023

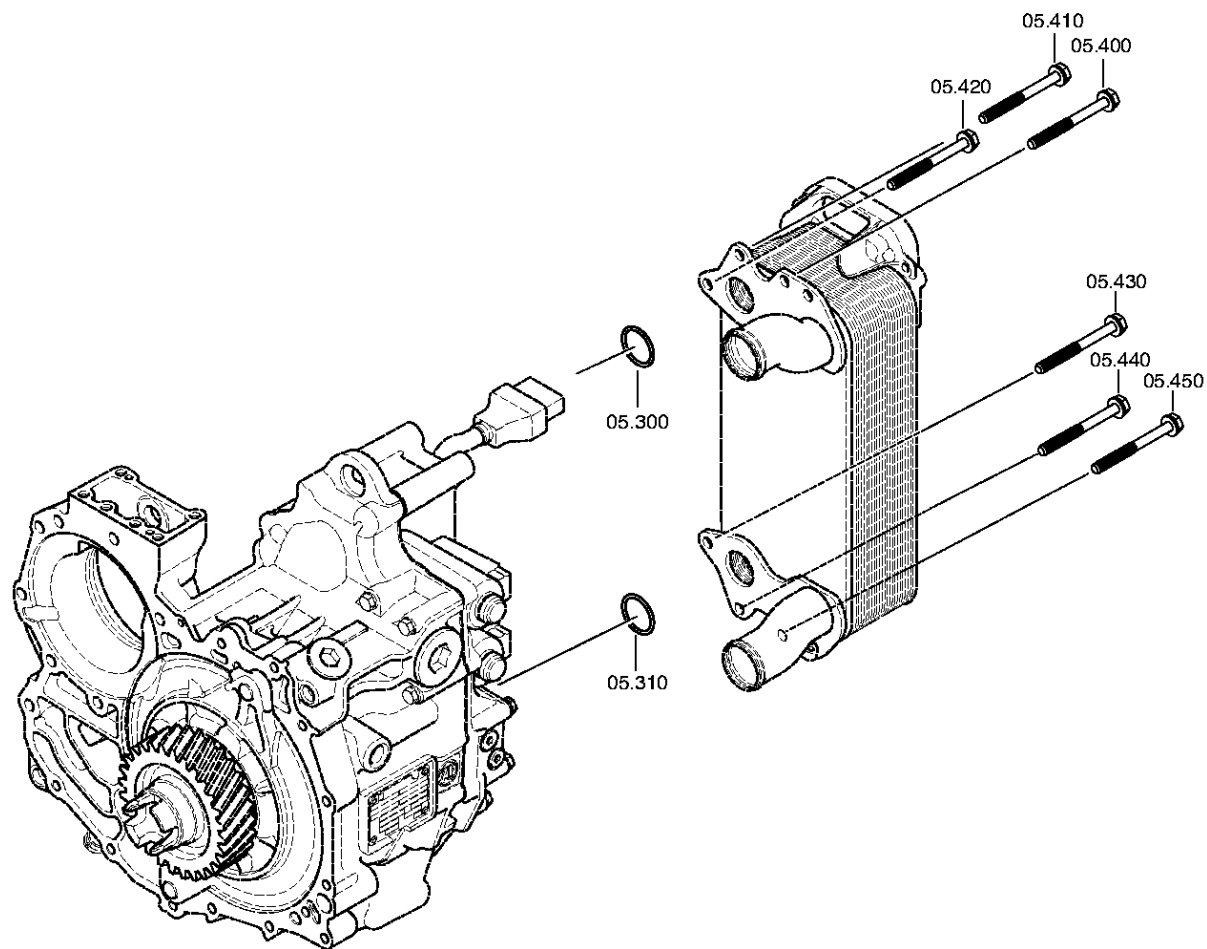
Plant: 155.05.02-1

HEAT EXCHANGER



16 S 2531 TO /
HEAT EXCHANGER





Parts list

Page 1 from 1



Material number: 6093.001.023

Plant: 155.05.02-1

Material-assembly-group-no: 6093.105.011

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	0501.221.839		HEAT EXCHANGER	1		Z00031859411	IT3*LKW*DM60		
100	6093.205.006		CARRIER	1			KPL. GD		
110	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
120	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
130	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
140	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
300	0634.313.092		O-RING	1			45X4		
310	0634.313.092		O-RING	1			45X4		
400	0636.100.376		HEXAGON SCREW	1		Z00007342910	M10X115		
410	0636.100.376		HEXAGON SCREW	1		Z00007342910	M10X115		
420	0636.100.376		HEXAGON SCREW	1		Z00007342910	M10X115		
430	0636.100.376		HEXAGON SCREW	1		Z00007342910	M10X115		
440	0636.100.376		HEXAGON SCREW	1		Z00007342910	M10X115		
450	0636.100.376		HEXAGON SCREW	1		Z00007342910	M10X115		

Plant

Page 1 from 2

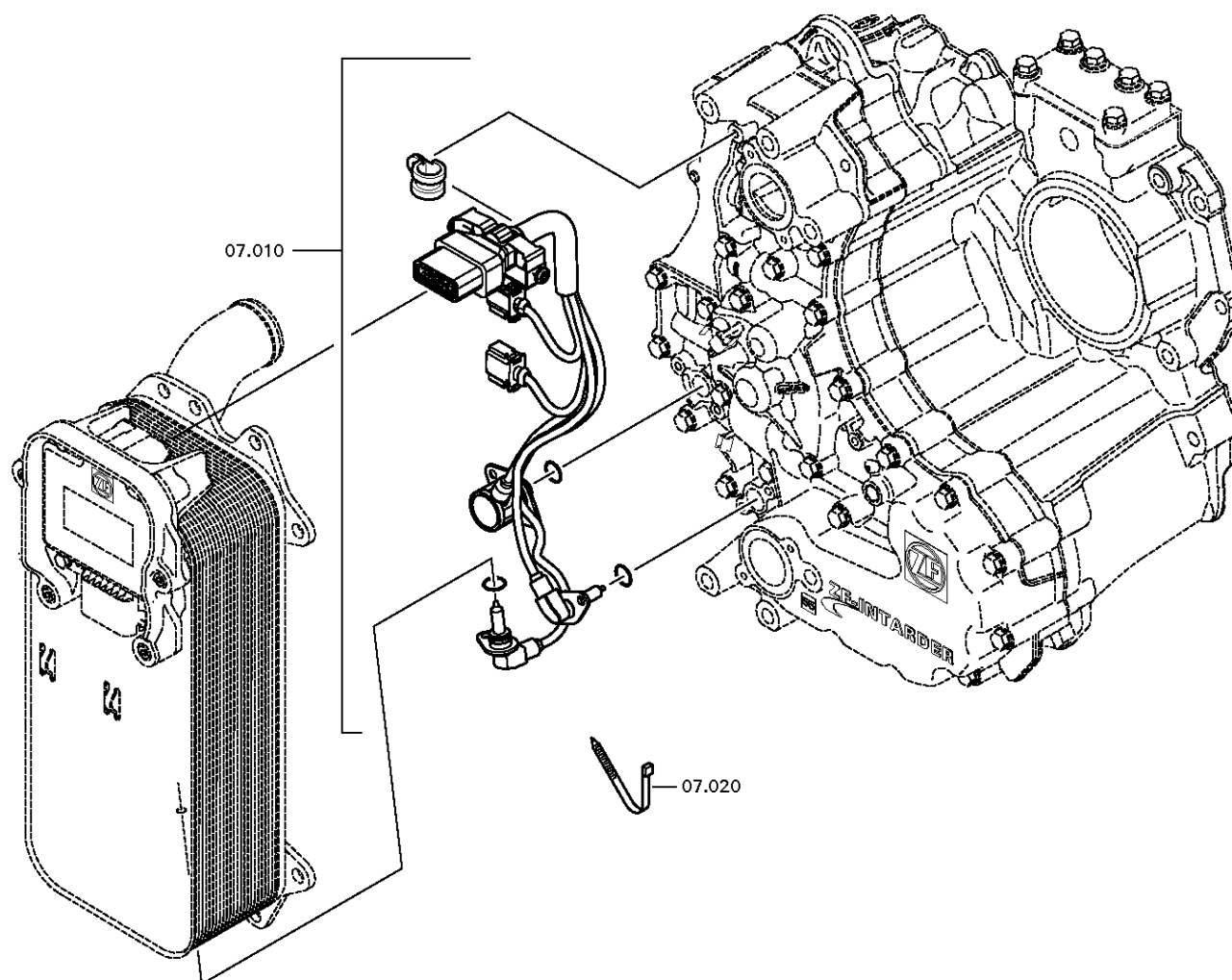
Material number: 6093.001.023

Plant: 155.07.02-1

Material-assembly-group-no: 6093.107.001



16 S 2531 TO /
WIRING



Plant

Page 2 from 2

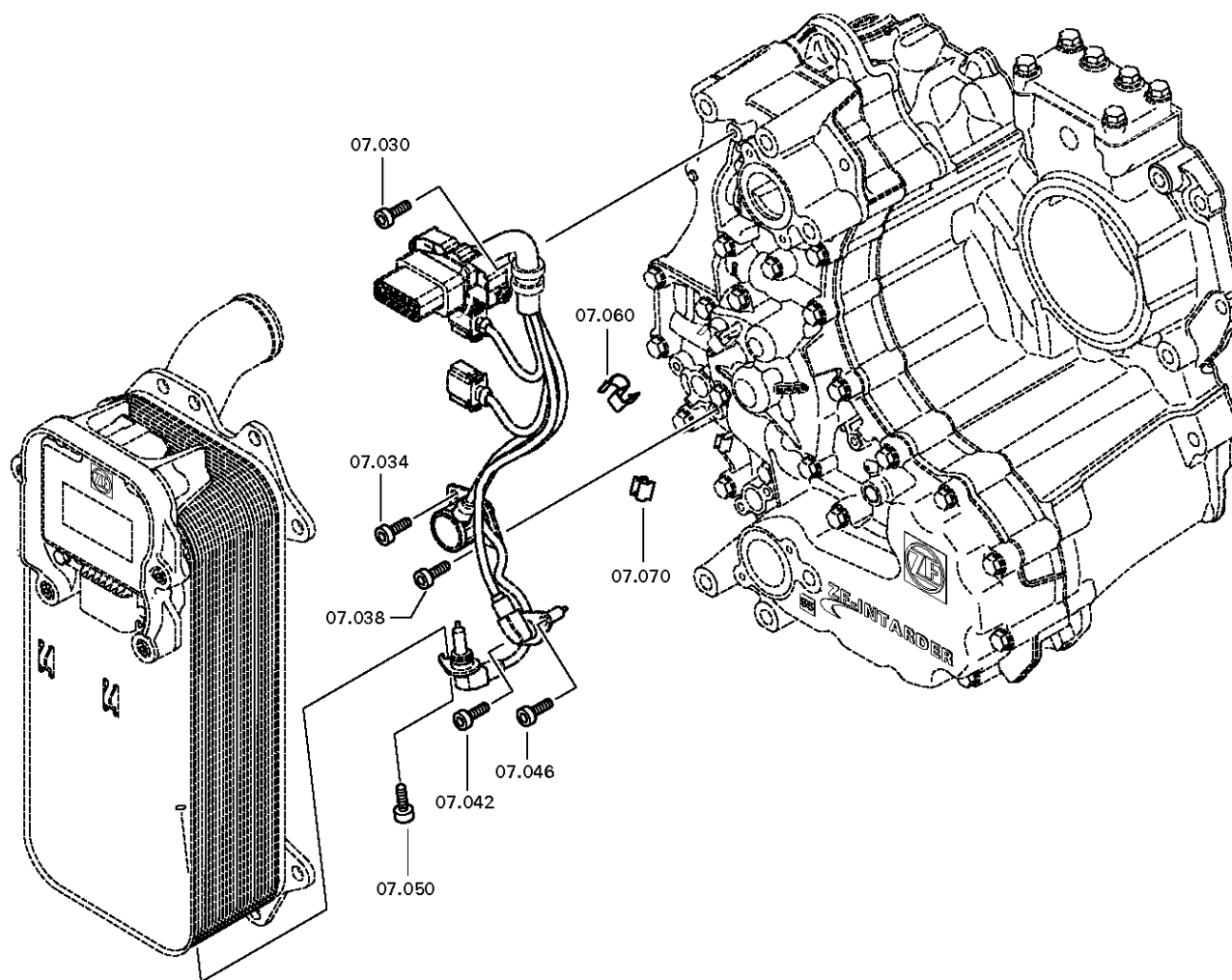
Material number: 6093.001.023

Plant: 155.07.02-2

Material-assembly-group-no: 6093.107.001



16 S 2531 TO /
WIRING



Parts list

Page 1 from 1



Material number: 6093.001.023

Plant: 155.07.02-1

Material-assembly-group-no: 6093.107.001

16 S 2531 TO /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	0501.219.774		CABLE	1		Z00020742511	LKW/ZENTR.-KABEL/ECU-SENSOR-AKTUATOR/P-KERMAMIK-SENSOR		
20	0659.160.068		CABLE CLIP	1			3,6X200		
30	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
34	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
38	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
42	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
46	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
50	0636.102.673		HEXALOBULAR DRIVING SCREW	1		Z00015420210	M6X16		
60	0659.100.021		CABLE TERMINAL	1					
70	0659.100.020		CABLE TERMINAL	1					



Spare Parts Catalog

NH 1 C

Material number: 6090.012.030

Current date: 24.05.2017

ZF Friedrichshafen AG
Hauptverwaltung
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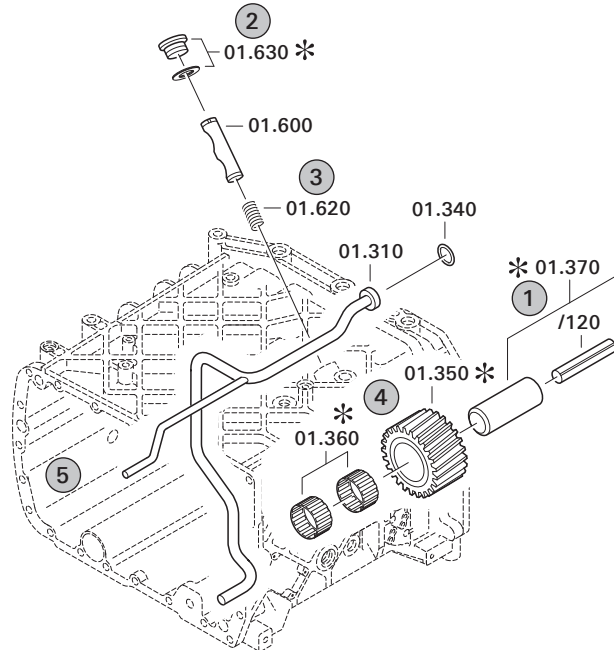
zuständiges Werk:
Friedrichshafen

Notes relating to the spare parts catalog

Setup of the spare parts catalog

- Cover sheet
- Technical 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
068.08.14	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)	Technische Info Technical info	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

Pos.	Sachnummer Product number	Benennung (Description)	Technische Info Technical info	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)	Technische Info Technical info	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 distinta base

5 Parts, dotted display

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

Assembly group overview

Page 1 from 1

Material number: 6090.012.030



NH 1 C /

Graphics	Pos.	Material number	Name	Quantity	Amend. no.	Techn. Info.
054.87.06-1	510	6090.102.001	TYPE PLATE	1		
054.87.06-1	900	6090.102.026	HOUSING	1		
054.87.06-1	910	6090.102.407	CONNECTING PARTS	1		
054.88.05-1	922	6090.103.005	CLOSING COMPONENTS	1		

Plant

Page 1 from 1

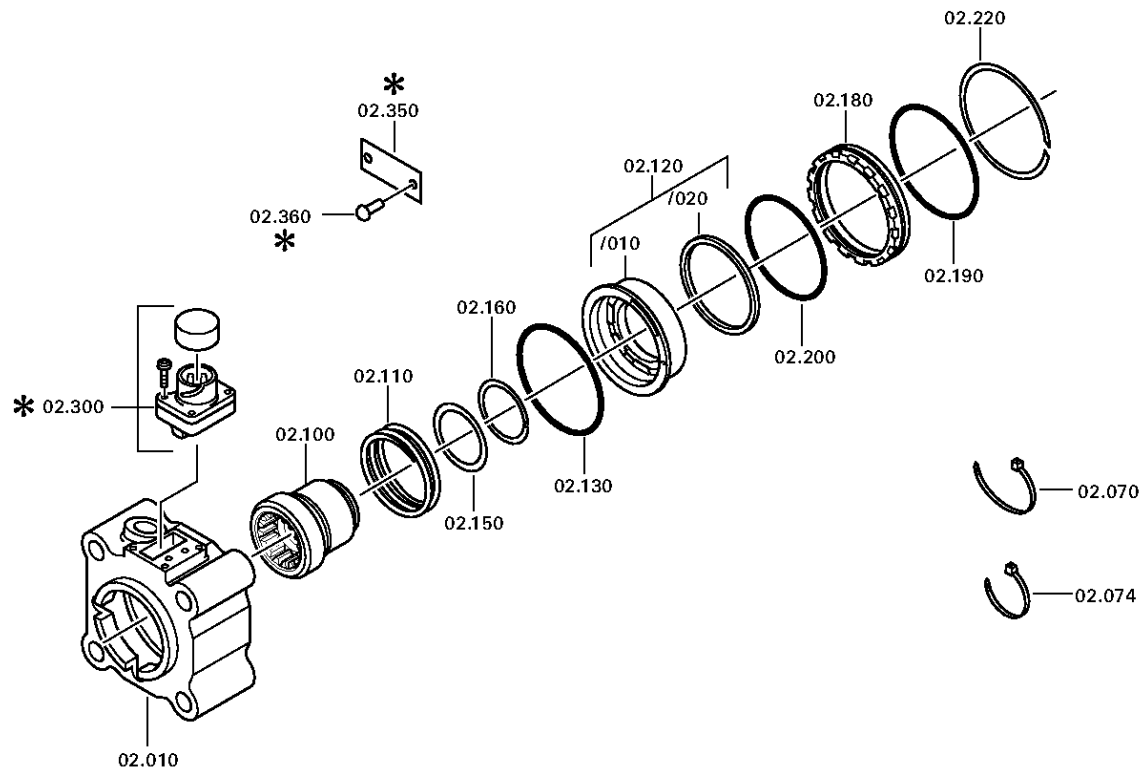
Material number: 6090.012.030

Plant: 054.87.06-1

TYPE PLATE



NH 1 C /
TYPE PLATE



Parts list

Page 1 from 1

Material number: 6090.012.030

Plant: 054.87.06-1

Material-assembly-group-no: 6090.102.001



NH 1 C /

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
10	6090.301.014		HOUSING	1					
100	6090.306.021		SLIDING SLEEVE	1					
110	0732.300.145		COMPRESSION SPRING	1		Z00012054510	NMBT DBV		
120	6090.206.002		PISTON	1			KPL.MIT MAGNETRING		
/10	6090.306.020		PISTON	1					
/20	0501.320.308		MAGNETIC RING	1					
130	0634.304.698		O-RING	1			73X2		
150	6090.306.024		WASHER	1					
160	0630.513.056		SNAP RING	1					
180	6090.306.015		CENTERING RING	1			A=14,70		
190	0634.304.698		O-RING	1		C01005194C10	73X2		
200	0501.320.483		O-RING	1			70X2		
220	0630.513.135		SNAP RING	1					
300	---		REED SWITCH	1		Z00004287211	SCHL*BAJONETT*SCHUTZKAPPE		
---	0501.219.150		REED SWITCH	1		Z00013728010			
---	0636.115.301		SCREW WITH WASHER ASSEMBLY	3		Z00007064410	M4X25		
350	0730.365.160		TYPE PLATE	1			PTO		
360	0731.300.027		BLIND RIVET	2		Z00007904810			

Plant

Page 1 from 1

Material number: 6090.012.030

Plant: 054.88.05-1

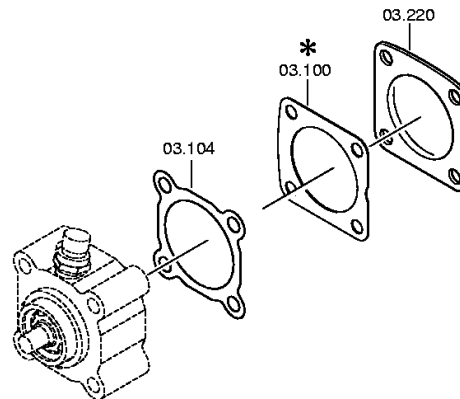
Material-assembly-group-no: 6090.103.005



NH 1 C /
CLOSING COMPONENTS

Bildtafel:
Figure: 054.88.05
Figure:
Figura:

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



NL 1 C
NH 1 C

Parts list

Page 1 from 1



NH 1 C /

Material number: 6090.012.030

Plant: 054.88.05-1

Material-assembly-group-no: 6090.103.005

Pos.	Material number	Customer material	Name	Quantity	ME	Amend. no.	Techn. Info.	Rep kit	Alternative material
104	6090.301.009		GASKET	1					
220	1328.301.170		COVER	1		Z00008068010			