

Spare Parts Catalog 6 WG 190

Material number: 4657.026.027

Current date: 02.08.2023

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Notes relating to the spare parts catalog

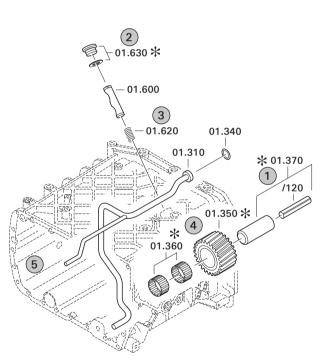


Setup of the spare parts catalog

- 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
C	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 distina base

(5) Parts, dotted display

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

Technical Cover

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Pos.	Information	Amendment number
	CUSTOMER: BRJANSKIJ ARSENAL	
	STATE: RUSSIA	
	VEHICLE DATA:	
	VEHICLE APPLICATION: GRADER GS18	
	WEIGHT LOADED (TO): 13,5	
	ENGINE: YAMZ 236	
	ENGINE POWER(KW): 184	
	SPEED (RPM): 2000	
	INPUT TORQUE(NM): 1080	
	SPEED (RPM): 1300	
	TIRE RADIUS (M): 0,600	
	AXLE RATIO: 14,100	
	MAX. SPEED (KM/H): 51	
	PRODUCT DESCRIPTION: ZF-ERGOPOWER TRANSMISSION	
	TRANSMISSION TYPE 6 WG 190	
	DROP CENTER DISTANCE: 540 MM	
	VEHICLE: GRADER	
	VERSION STANDARD	
	1. GEAR FORWARD: 5,562	
	2. GEAR FORWARD: 3,615	
	3. GEAR FORWARD: 2,255	
	4. GEAR FORWARD: 1,466	
	5. GEAR FORWARD: 0,942	
	6. GEAR FORWARD: 0,613	
	1. GEAR REVERSE: 5,274	
	2. GEAR REVERSE: 2,138	
	3. GEAR REVERSE: 0,894	
	NUMBER OF PULSES ENGIN: 4	
	NUMBER OF PULSES TURB: 54	
	NUMBER OF PULSES MRK: 55	
	NUMBER OF PULSES OUTP.: 46	
	CONVERTER: W 340	
	CONVERTER PART NR: 4168034117	

Technical Cover

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Pos.	Information	Amendment number
	LOCK-UP CLUTCH: WITHOUT	
	TORQUE CONVERTER ABSORP 271 NM	
	STALL TORQUE RATIO: 1,77	
	STATOR FREEWHEEL: WITHOUT	
	RETARDER: WITHOUT	
	ENGINE INPUT: REMOTE MOUNTED VIA JOINT SHAFT	
	INPUT FLANGE: DIN	
	INPUT FLANGE-TYPE: DIN 120	
	SCREW: WITHOUT	
	OUTPUT: STANDARD	
	OUTPUT CONVERTER SIDE: WITHOUT AXLE DISCONNECT	
	OUTPUT FLANGECONVERTER DIN	
	OUTPUT FLANGE TYPE: DIN 180 8 X 14,1	
	SCREW: 8 X M14 X 1,5 X 45	
	OUTPUT PTO SIDE: WITHOUT PARKING BRAKE	
	OUTPUT PTO- SIDE: DIN	
	OUTPUT FLANGE-TYPE: DIN 180	
	SCREW: 8 X M14 X 1,5 X 45	
	POWER TAKE OFF: 1 PTO COAXIAL ENGINE-DEPENDEN	
	DISCONNECTION: WITHOUT	
	FLANGE: SAE C 2/4 HOLE	
	DRIVER / PROFILE: SAE C 12/24 DP 14 T	
	GEAR CHANGE CONTROL: ZF-ERGOSHIFT/ PROP VALVE	
	VOLTAGE: 24 VOLT	
	OPERATING PRESSURE: 16+2 BAR	
	CABLE CONNECT. TO EST 3 BAYONET	
	CONTROL SYSTEM:	
	ELECTRIC PARTS ORDER: INCLUDED IN SCOPE OF SUPPLY	
	GROUP LOOSE PARTS: 4657 183 158	
	SEPERATE ORDER: WITHOUT	
	CONTROL UNIT: EST 37A	
	VEHICLE SUPPLY VOLTAGE: 24 VOLT	
	GEAR SELECTOR: VTS 3	

Technical Cover

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Pos.	Information	Amendment number
	DISPLAY: FOR SEPERATE MOUNTING	
	WIRING: WITH	
	OIL TEMPERATURE SENSOR: WITH (WITHOUT GAUGE)	
	SPEED CONTROL: CONNECTION VIA EST	
	OIL LEVEL TUBE: MOUNTED ON CONVERTER SIDE	
	OIL DIPSTICK: SHORT/STRAIGHT	
	DELIVERY OIL LEV. TUBE: ASSEMBLED	
	FILTER INSTALLATION: DIRECT MOUNTED	
	ADDITIONAL FILTER WITHOUT	
	PRES. DROP SWITCH: CLOSING SWITCH	
	EMERGENCY STEERING PUMP MOUNTING POSSIBILITY	
	GEARBOX BREATHER: WITH	
	DOCUMENTATION GEAR BOX:	
	SECTION DRAWING: 4657 500 012	
	GEARBOX DIAGRAM: 4657 700 043	
	OIL CIRCUIT DIAGRAMM: 4657 700 144	
	DOCU. CONTROL UNIT:	
	DRAWING 6009 665 002	
	DRAWING GEAR SEL. 1: 6006 635 005	
	CONNECTION DIAGRAMM: 6006 700 529	
	WIRING DIAGRAMM: 6029 701 955	
	CONNECTION DIAGRAMM: 6029 701 951	
	DRAWING DISPLAY: 6007 603 047	
	OIL CAPACITY: 27	
	GEARBOX OIL CAPACITY: WITHOUT	
	OIL-CLASS: TE ML 03	
	PRIME CODE: RAL-3009	
	INSTAL. INSTRUCTIONS: 0000 702 271	
	INSTALLATION DRAWING: 4657 626 027	
	1.PERFORMANCE CALC.: 4657 707 001	

Assembly group overview

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Picture	Pos.	Material number	Name	Quantit y	Amend. no.	Techn. Info.
4657130045 00	270	4657.130.045	ENGINE CONNECTION	1		
4656130404 00	280	4656.130.404	ENGINE CONNECTION	1		
4166034080 00	500	4166.034.080	CONVERTER	1		
4657102016 00	30	4657.102.016	INPUT	1		
4657101033 01	10	4657.101.033	TRANSMISSION HOUSING	1		
4657101408 00	20	4657.101.408	TRANSMISSION HOUSING	1		
4657171030 00	350	4657.171.030	COUPLING	1		
4657172027 00	360	4657.172.027	COUPLING	1		
4657173019 00	370	4657.173.019	COUPLING	1		
4657174038 00	380	4657.174.038	COUPLING	1		
4657175014 00	390	4657.175.014	COUPLING	1		
4657176017 00	400	4657.176.017	COUPLING	1		
4657103010 00	50	4657.103.010	OUTPUT	1		
4657103429 00	60	4657.103.429	OUTPUT	1		
4657103430 00	70	4657.103.430	OUTPUT	1		
4657154004 00	340	4657.154.004	POWER TAKE-OFF	1		

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Picture	Pos.	Material number	Name	Quantit y	Amend. no.	Techn. Info.
4657106017 00	110	4657.106.017	SHIFT SYSTEM	1		
4657106407 20	115	4657.106.407	SHIFT SYSTEM	1		
4656159019 21	120	4656.159.019	SHIFT SYSTEM	1		
4657123003 00	225	4657.123.003	CONTROL UNIT	1		
4657120003 00	190	4657.120.003	PRESSURE REGULATOR	1		
4657122005 00	220	4657.122.005	PRESSURE OIL PUMP	1		
4657137002 00	310	4657.137.002	EMERGENCY STEERING PUMP	1		
4657107003 00	130	4657.107.003	SPEEDOMETER	1		
4657125002 00	250	4657.125.002	INDUCTIVE SENSOR	1		
4657124003 00	240	4657.124.003	TEMPERATURE SENSOR	1		
4656138006 00	330	4656.138.006	FILTER	1		
4657131004 00	290	4657.131.004	FILLER NOZZLE	1		
4657183158 00	495	4657.183.158	LOOSE PARTS	1		

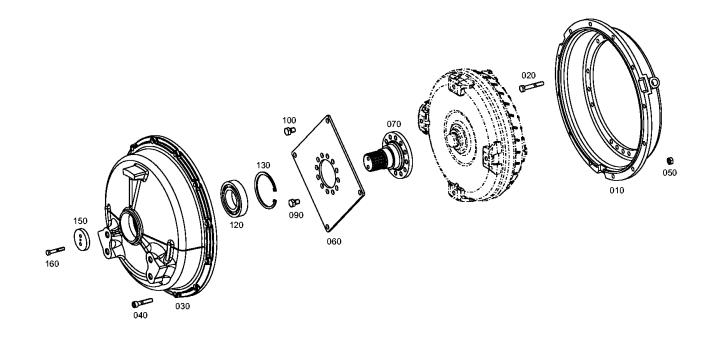
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Material number: 4657.026.027

Picture: 465713004500

Material-assembly-group-no: 4657.130.045





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Material number: 4657.026.027

Picture: 465613040400

Material-assembly-group-no: 4656.130.404





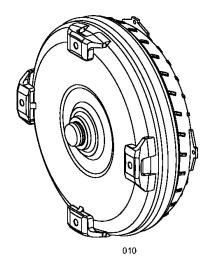
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Material number: 4657.026.027

Picture: 416603408000

Material-assembly-group-no: 4166.034.080





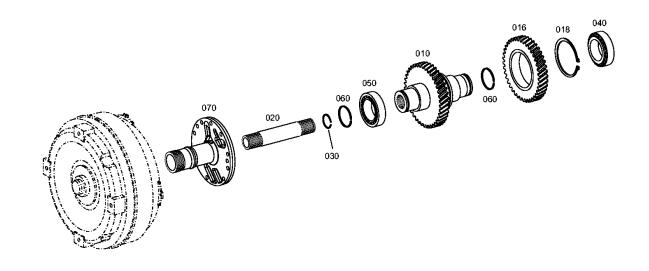
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Material number: 4657.026.027

Picture: 465710201600

Material-assembly-group-no: 4657.102.016





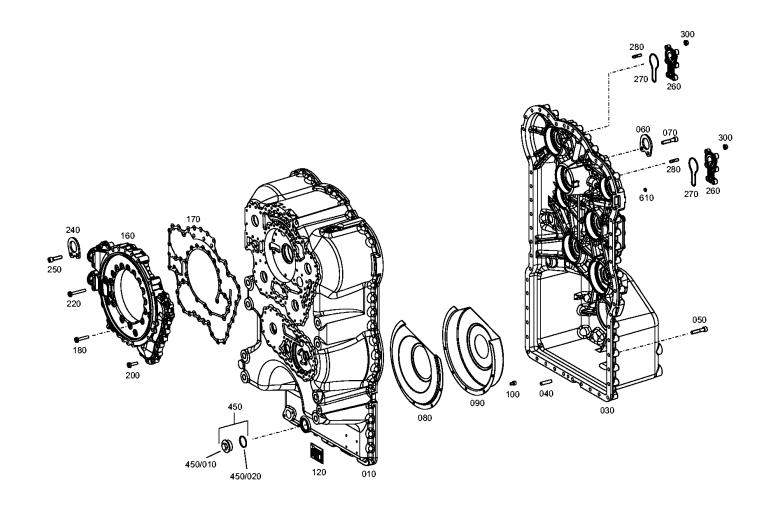
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Material number: 4657.026.027

Picture: 465710103301

Material-assembly-group-no: 4657.101.033





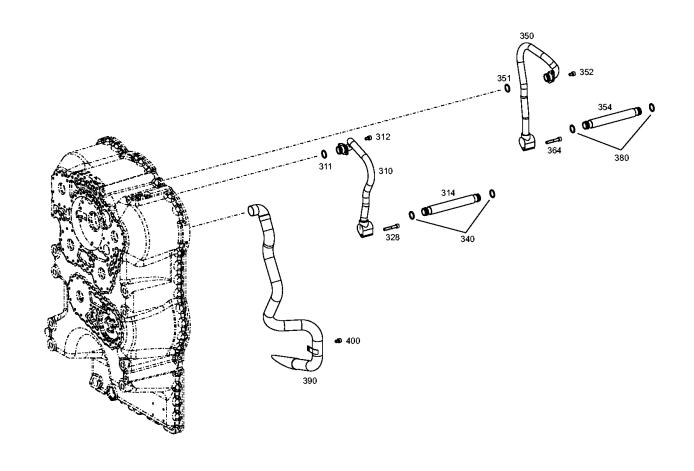
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Material number: 4657.026.027

Picture: 465710103302

Material-assembly-group-no: 4657.101.033





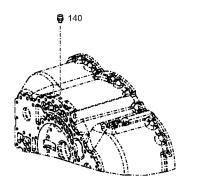
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Material number: 4657.026.027

Picture: 465710140800

Material-assembly-group-no: 4657.101.408





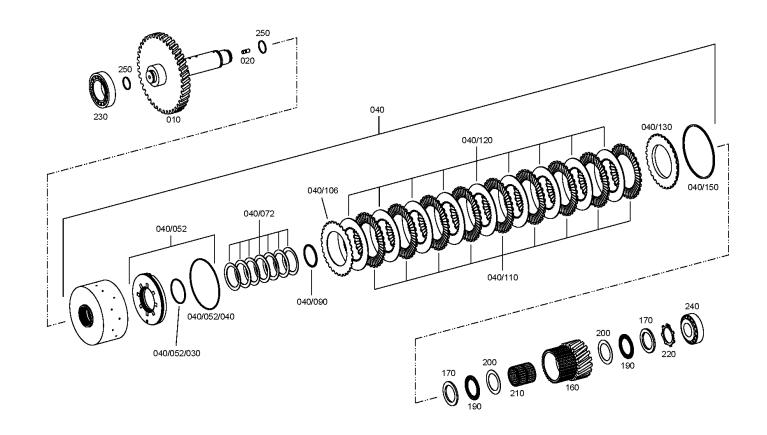
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Material number: 4657.026.027

Picture: 465717103000

Material-assembly-group-no: 4657.171.030





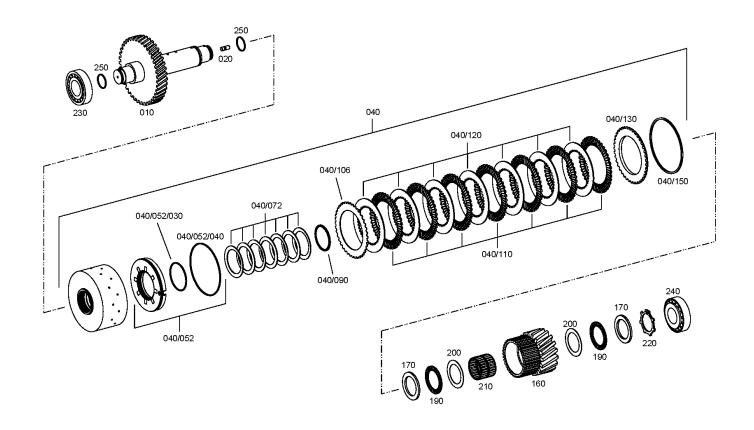
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Material number: 4657.026.027

Picture: 465717202700

Material-assembly-group-no: 4657.172.027





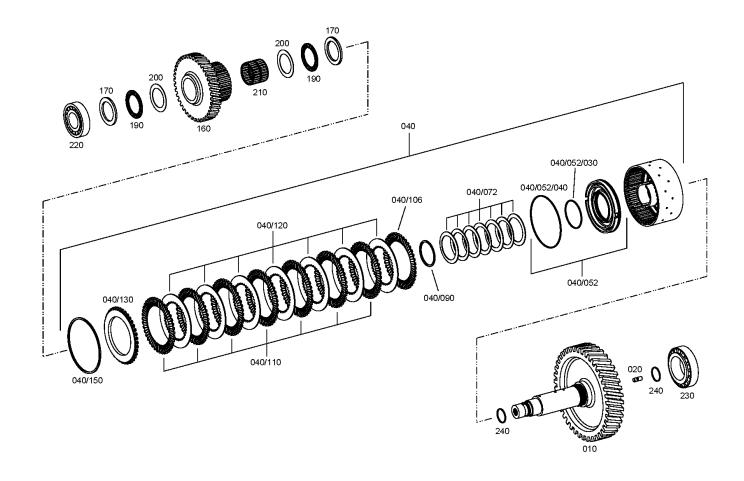
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Material number: 4657.026.027

Picture: 465717301900

Material-assembly-group-no: 4657.173.019





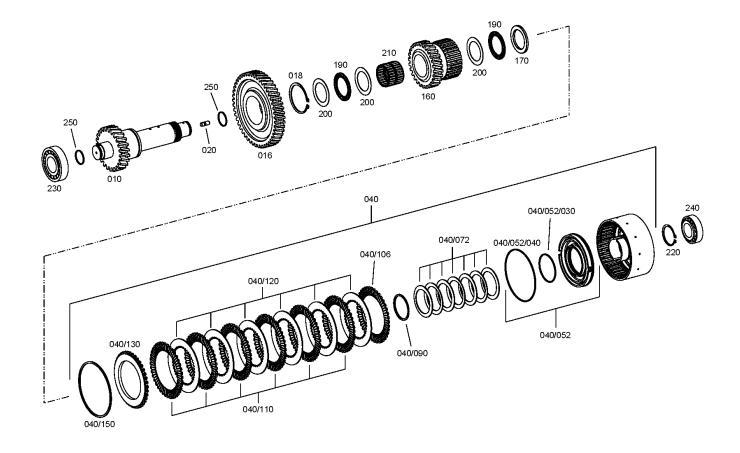
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Material number: 4657.026.027

Picture: 465717403800

Material-assembly-group-no: 4657.174.038





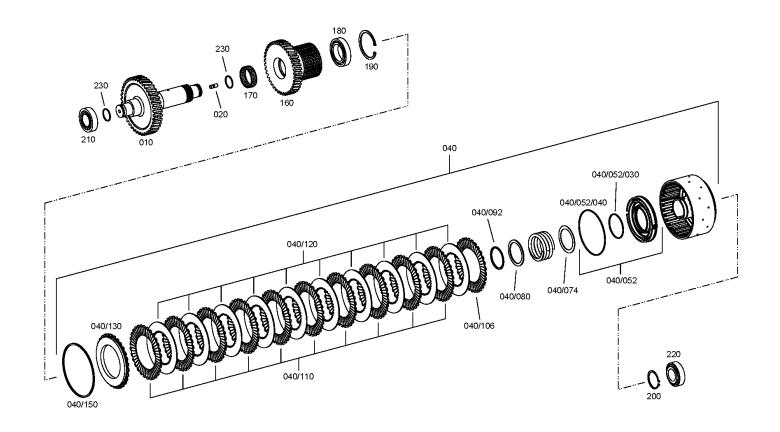
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Material number: 4657.026.027

Picture: 465717501400

Material-assembly-group-no: 4657.175.014





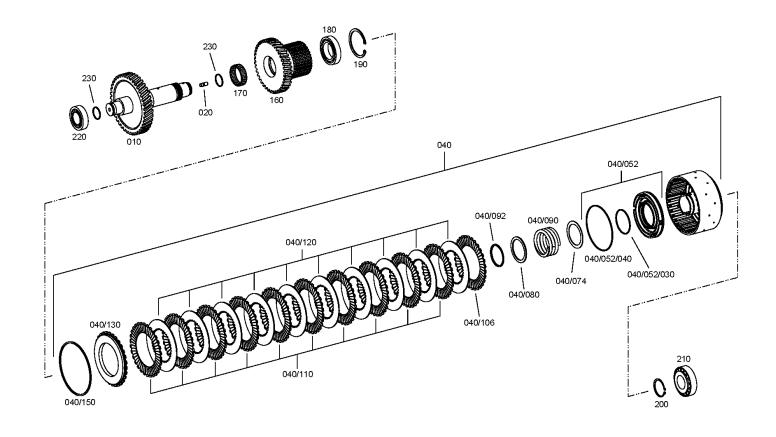
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Material number: 4657.026.027

Picture: 465717601700

Material-assembly-group-no: 4657.176.017





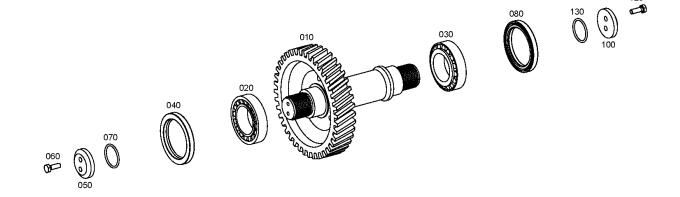
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Material number: 4657.026.027

Picture: 465710301000

Material-assembly-group-no: 4657.103.010





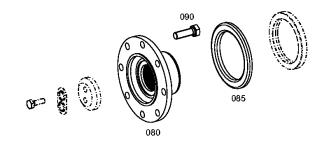
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Material number: 4657.026.027

Picture: 465710342900

Material-assembly-group-no: 4657.103.429





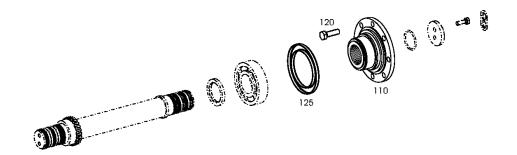
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Material number: 4657.026.027

Picture: 465710343000

Material-assembly-group-no: 4657.103.430





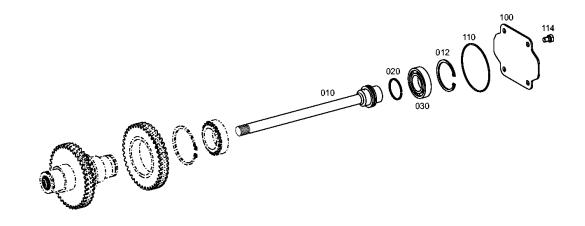
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Material number: 4657.026.027

Picture: 465715400400

Material-assembly-group-no: 4657.154.004





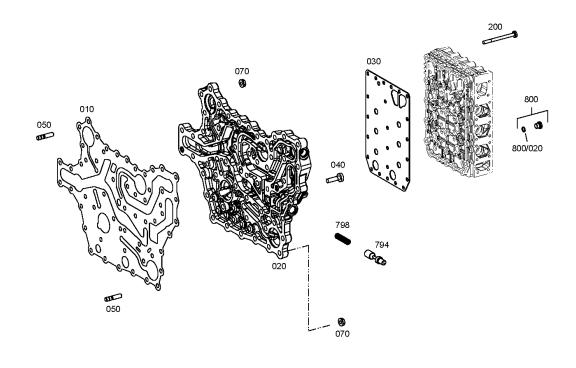
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Material number: 4657.026.027

Picture: 465710601700

Material-assembly-group-no: 4657.106.017





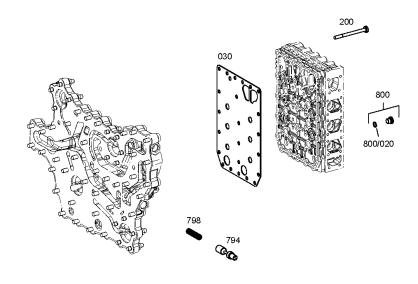
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Material number: 4657.026.027

Picture: 465710601780

Material-assembly-group-no: 4657.106.017





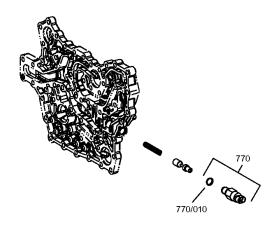
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Material number: 4657.026.027

Picture: 465710640720

Material-assembly-group-no: 4657.106.407





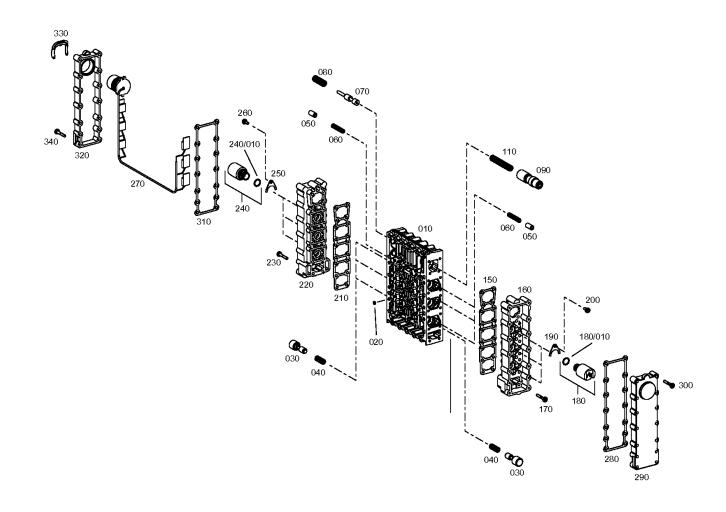
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Material number: 4657.026.027

Picture: 465615901921

Material-assembly-group-no: 4656.159.019





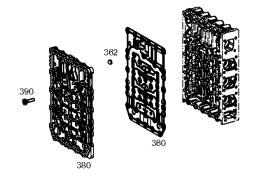
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Material number: 4657.026.027

Picture: 465615901922

Material-assembly-group-no: 4656.159.019





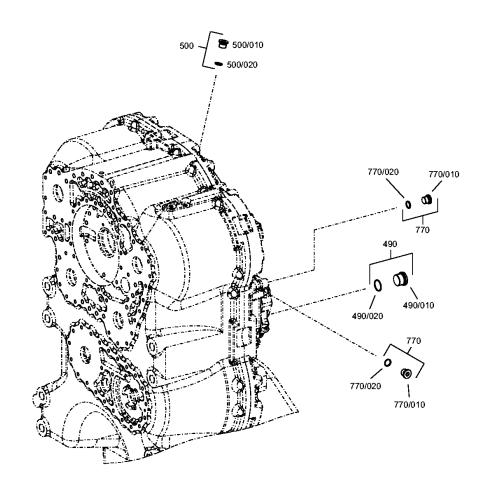
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Material number: 4657.026.027

Picture: 465712300300

Material-assembly-group-no: 4657.123.003





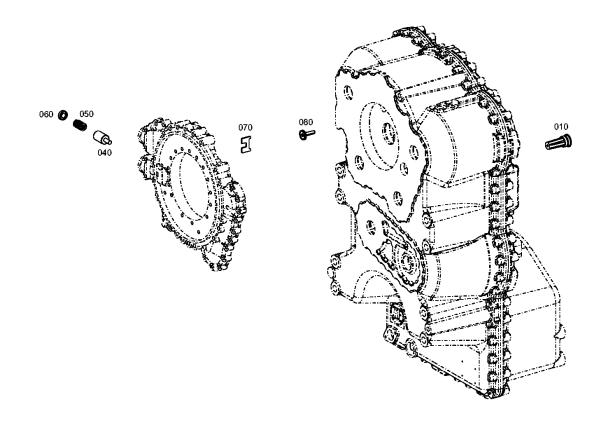
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Material number: 4657.026.027

Picture: 465712000300

Material-assembly-group-no: 4657.120.003





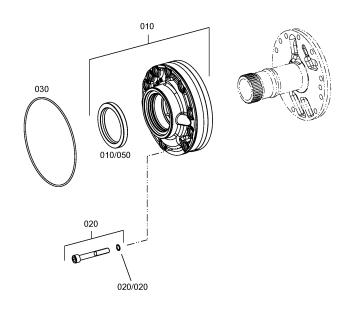
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Material number: 4657.026.027

Picture: 465712200500

Material-assembly-group-no: 4657.122.005





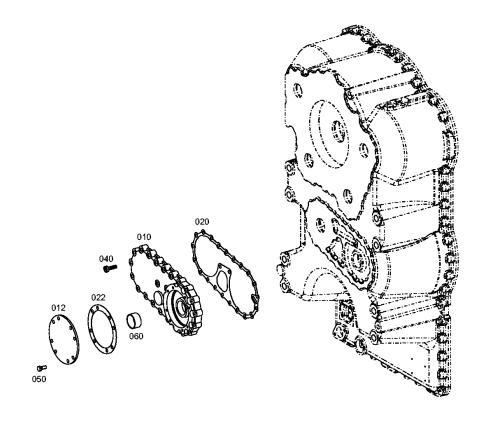
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Material number: 4657.026.027

Picture: 465713700200

Material-assembly-group-no: 4657.137.002





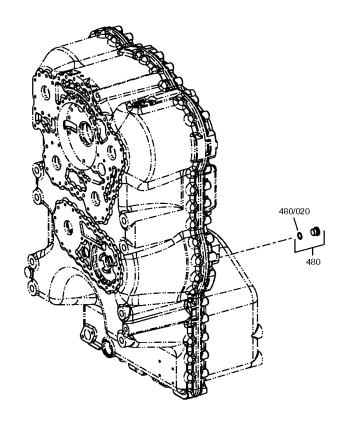
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Material number: 4657.026.027

Picture: 465710700300

Material-assembly-group-no: 4657.107.003





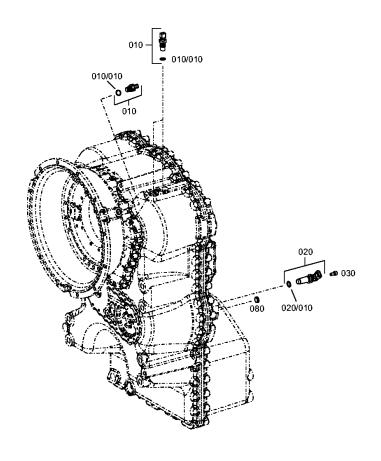
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Material number: 4657.026.027

Picture: 465712500200

Material-assembly-group-no: 4657.125.002





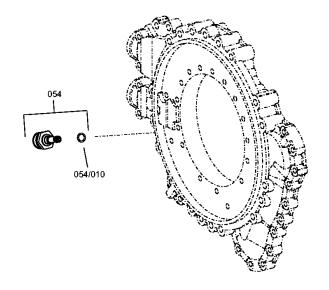
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Material number: 4657.026.027

Picture: 465712400300

Material-assembly-group-no: 4657.124.003





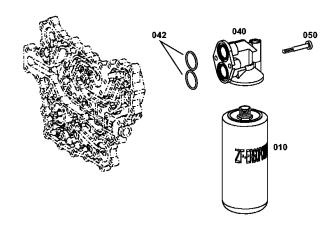
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Material number: 4657.026.027

Picture: 465613800600

Material-assembly-group-no: 4656.138.006





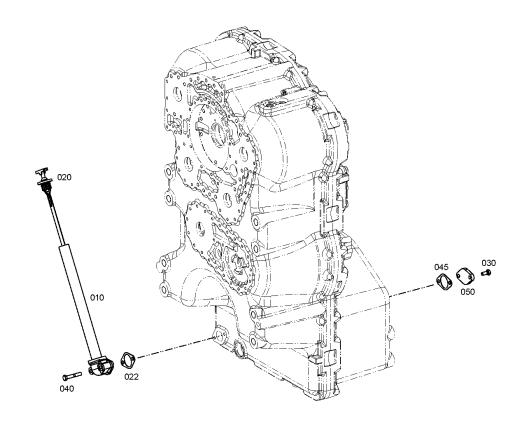
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Material number: 4657.026.027

Picture: 465713100400

Material-assembly-group-no: 4657.131.004





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Material number: 4657.026.027

Picture: 465718315800

Material-assembly-group-no: 4657.183.158



