



Spare Parts Catalog

2 HL 270

Material number: 4143.020.133

Current date: 07.08.2018

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zuständiges Werk:
Passau

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

Technical Cover

Page 1 from 2

Material number: 4143.020.133



2 HL 270 /

Pos.	Information	Amendment number
	CUSTOMER-VEHICLE DATA 1: -----	
	CUSTOMER: HITACHI	
	VEHICLE DESIGNATION: 180 W	
	ENGINE POWER: 110,0 KW	
	WEIGHT EMPTY: 18,800 TO	
	TIRES: 10.00-20	
	TIRE RADIUS: 0,505 M	
	HYDR. PUMP POWER: 99,0 KW	
	OIL FLOW: 207,0 CDM	
	HYDROMOTOR: A 6 VM 140	
	MANUFACTURER: BR.-HYDROMATIK	
	DIFFERENTIAL PRESSURE: 355 BAR	
	FRONT AXLE: MS-E 3060	
	REAR AXLE: MT-E 3060	
	AXLE RATIO: 16,00	
	PERFORMANCE CALC.: 4143 701 567	
	BRAKE CALCULATION: 4143 709 313	
	VEHICLE DESIGNATION: 160 W	
	ENGINE POWER: 110,0 KW	
	WEIGHT EMPTY: 17,200 TO	
	TIRES: 10.00-20	
	TIRE RADIUS: 0,505 M	
	HYDR. PUMP POWER: 99,0 KW	
	OIL FLOW: 207,0 CDM	
	HYDROMOTOR: A 6 VM 140	
	MANUFACTURER: BR.-HYDROMATIK	
	DIFFERENTIAL PRESSURE: 345 BAR	
	FRONT AXLE: MS-E 3060	
	REAR AXLE: MT-E 3060	
	AXLE RATIO: 16,00	
	PERFORMANCE CALC.: 4143 701 566	
	BRAKE CALCULATION: 4143 709 297	
	PRODUCT DESCRIPTION: ZF- POWERSHIFT TRANSMISSION HL	

Technical Cover

Page 2 from 2

Material number: 4143.020.133



2 HL 270 /

Pos.	Information	Amendment number
	TRANSMISSION TYPE: 2 HL 270	
	DROP CENTER DISTANCE: 185 MM	
	TRANSMISSION INSTALLATION: AXLE MT-E 3060	
	INSTALLATION POSITION: VERTICAL	
	OUTPUT FLANGE: DIN 120	
	GEAR RATIO: 1ST GEAR=4,869; 2ND GEAR=1,196	
	AXLE RATIO: 16,000	
	HYDRO MOTOR SPLINE: N45 X 2 X 30 X 21 X 10H	
	CENTERING DIAMETER: 180 H7	
	VALVE BLOCK: SEPARATELY	
	VOLTAGE: 24 VOLT	
	DOWNSHIFT PROT.: HYDR. CONNECTION M18X1.5	
	SPEED SENSOR: WITH	
	OIL FILLING: WITH	
	GEARBOX OIL - GRADE: TE ML 07	
	TYPE PLATE: ZF- STANDARD	
	PRIMER PAINT: BLACK RAL 9005	
	OIL FILL QUANTITY CA: 2,50 L	
	SEPARATE ORDER CUSTOMER: 0750.132.135 VALVE BLOCK: 24V	
	DOCUMENTATION: -----	
	SECTION DRAWING: 4143020031	
	INSTALLATION DRAWING: 4472 648 007	
	INSTALL. INSTRUCTIONS: 5872 014 002	

Assembly group overview

Page 1 from 1

Material number: 4143.020.133



2 HL 270 /

Graphics	Pos.	Material number	Name	Quantity	Amend. no.	Techn. Info.
414312504400	490	4143.125.044	INPUT HOUSING	1		
414310105030	10	4143.101.050	HOUSING	1		
414315101900	810	4143.151.019	MULTIDISK BRAKE	1		
414315201130	830	4143.152.011	COUPLING	1		
414311501730	290	4143.115.017	PLANETARY DRIVE	1		
414311540130	300	4143.115.401	PLANETARY DRIVE	1		
414311540530	295	4143.115.405	PLANETARY DRIVE	1		
414310303630	50	4143.103.036	OUTPUT	1		
414310342050	55	4143.103.420	OUTPUT	1		
414310342130	60	4143.103.421	OUTPUT	1		
414314202500	520	4143.142.025	GEAR SHIFT SENSOR	1		
414314240600	540	4143.142.406	GEAR SHIFT SENSOR	1		
414314240700	525	4143.142.407	GEAR SHIFT SENSOR	1		
414312101100	390	4143.121.011	OIL PIPE	1		
414313900100	900	4143.139.001	TYPE PLATE	1		

Plant

Page 1 from 1

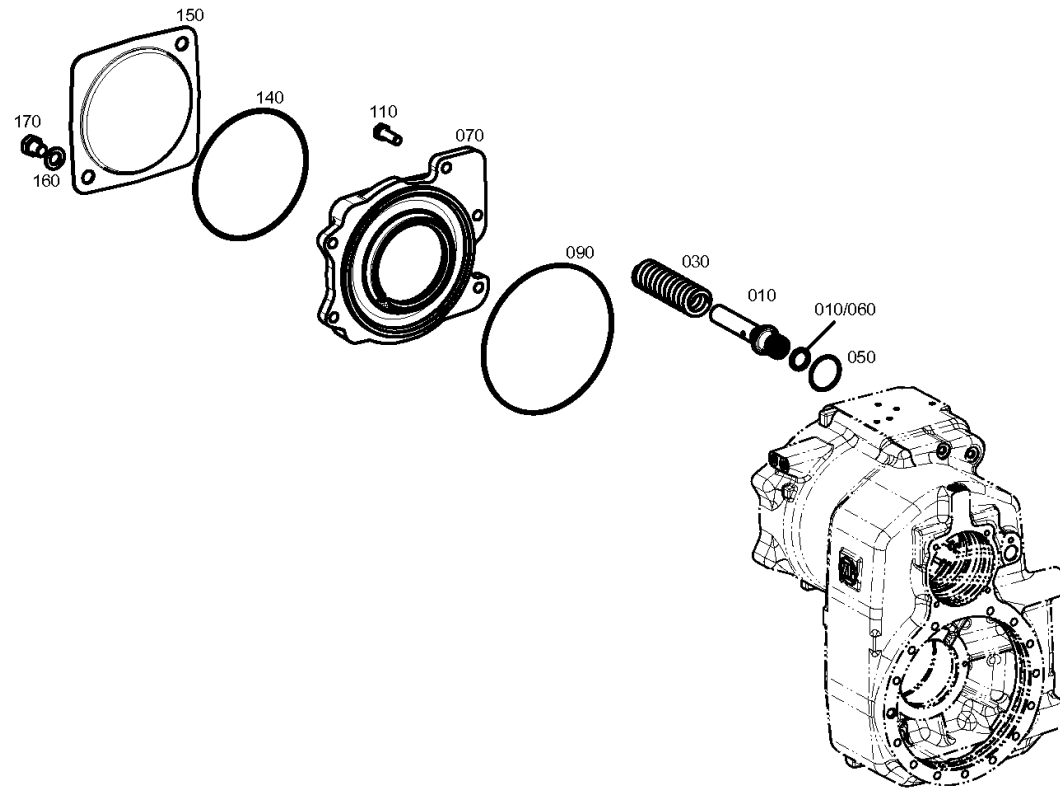
Material number: 4143.020.133

Plant: 414312504400

Material-assembly-group-no: 4143.125.044



2 HL 270 /
INPUT HOUSING



Plant

Page 1 from 1

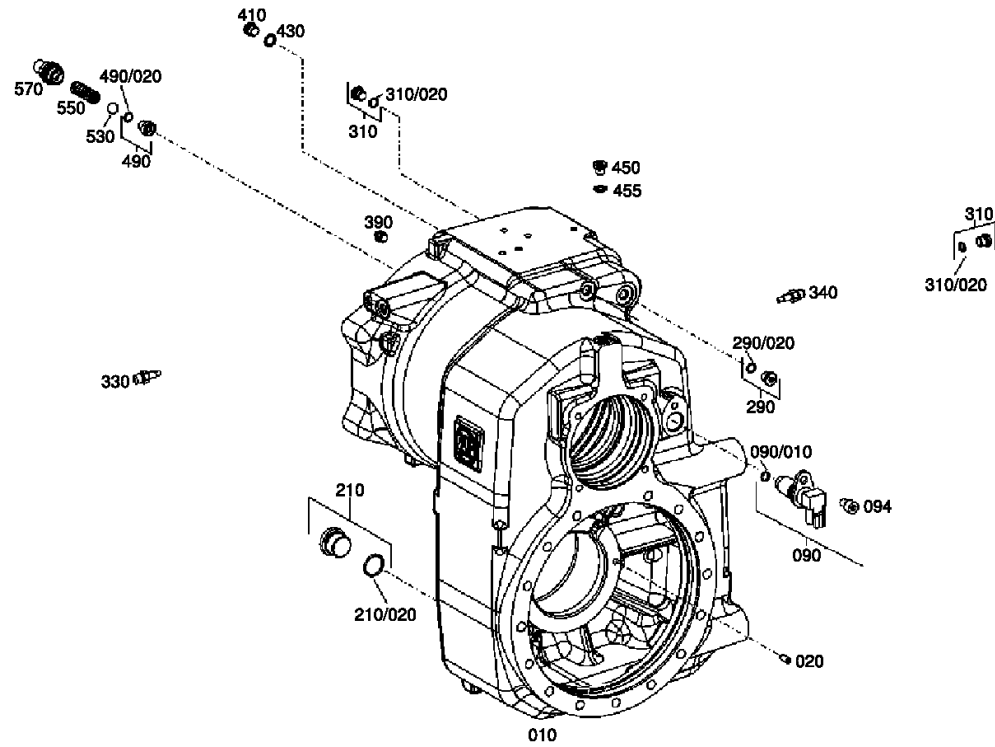
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Plant: 414310105030

Material-assembly-group-no: 4143.101.050



2 HL 270 /
HOUSING



Plant

Page 1 from 2

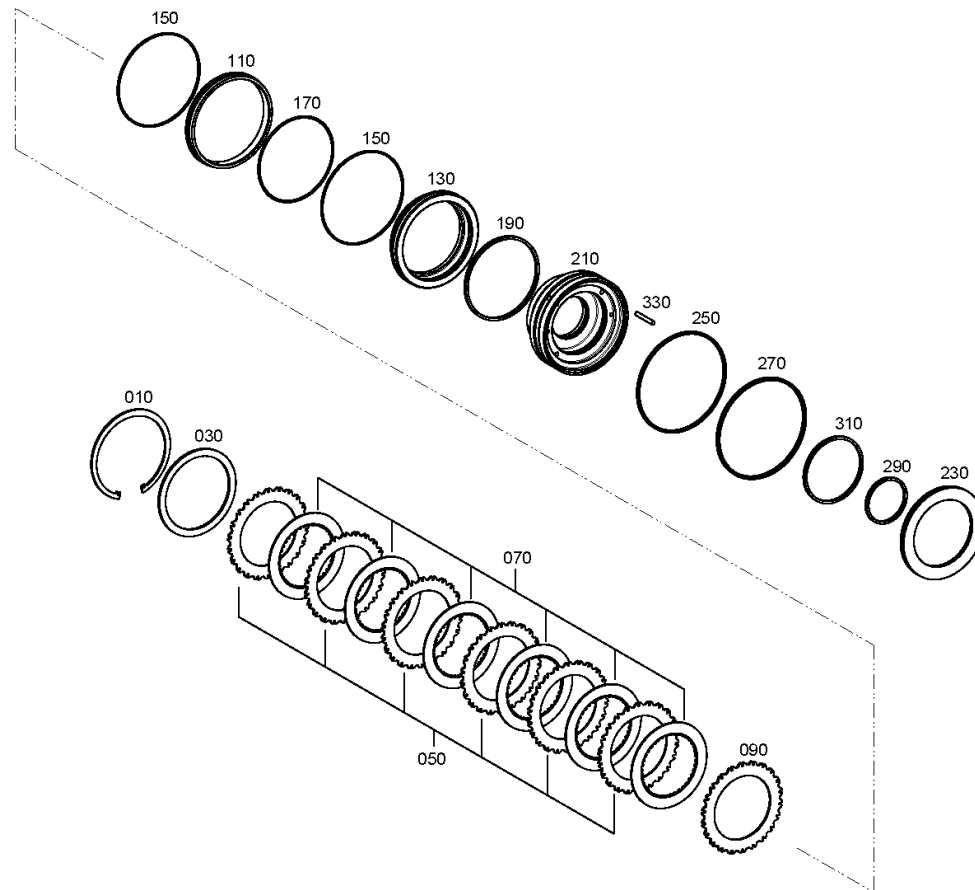
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Plant: 414315101900

Material-assembly-group-no: 4143.151.019



2 HL 270 /
MULTIDISK BRAKE



Plant

Page 2 from 2

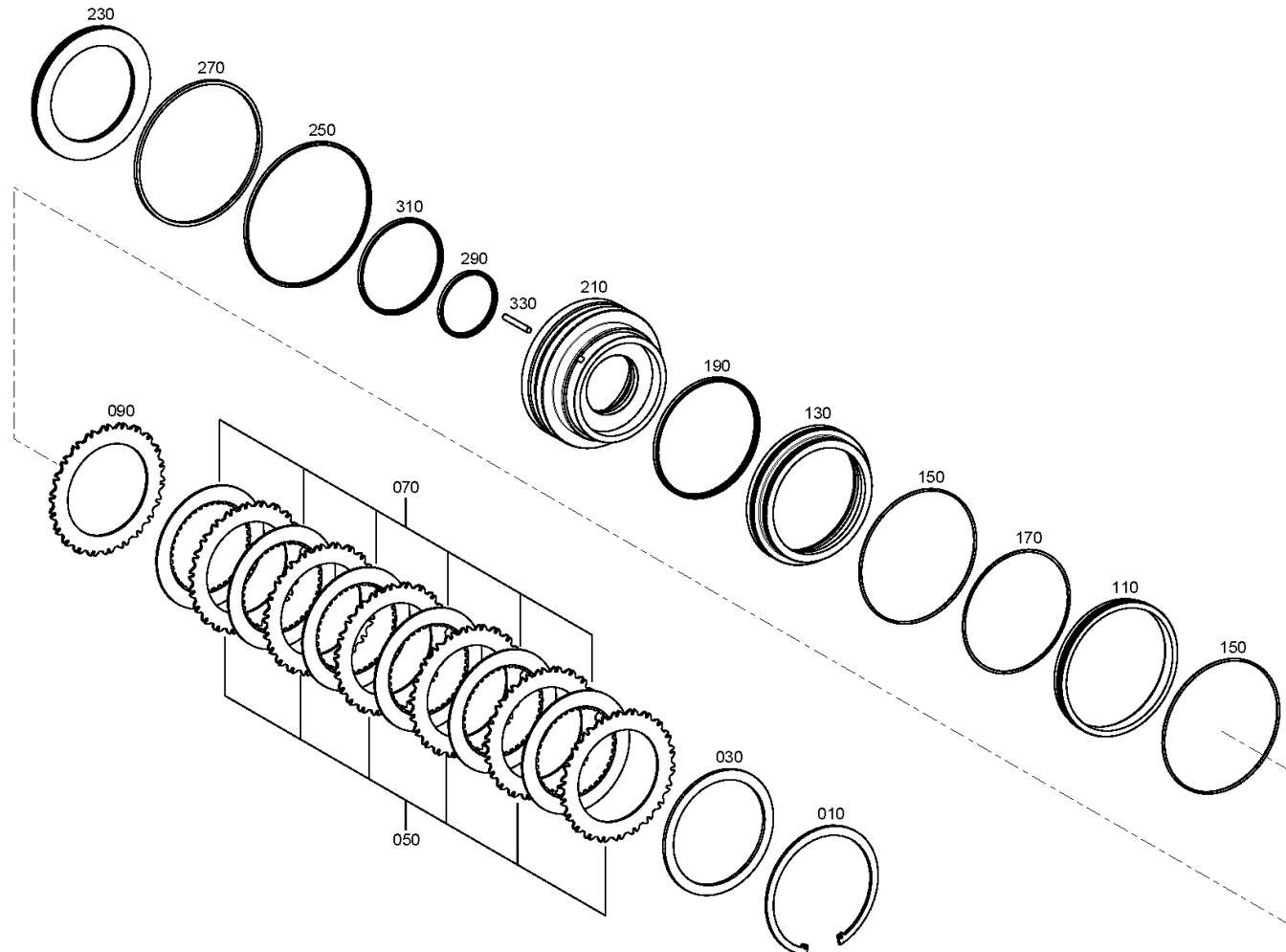
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Plant: 414315101930

Material-assembly-group-no: 4143.151.019



2 HL 270 /
MULTIDISK BRAKE



Plant

Page 1 from 1

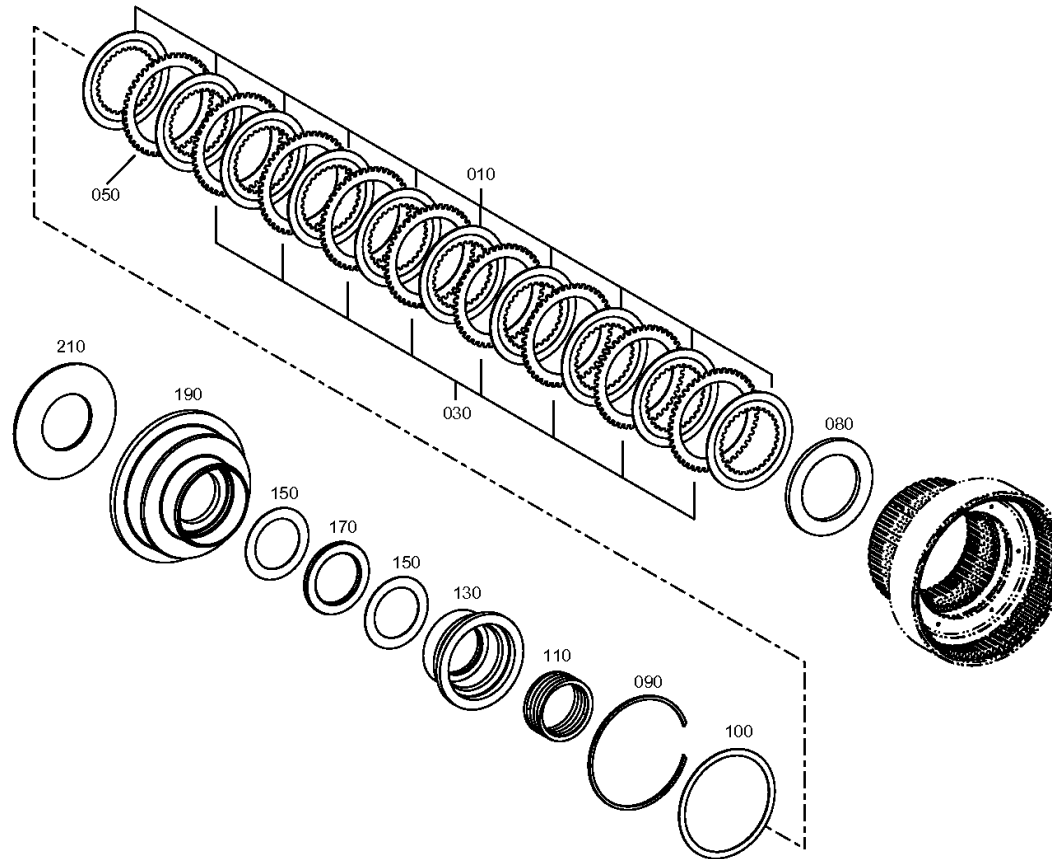
Material number: 4143.020.133

Plant: 414315201130

Material-assembly-group-no: 4143.152.011



2 HL 270 /
COUPLING



Plant

Page 1 from 1

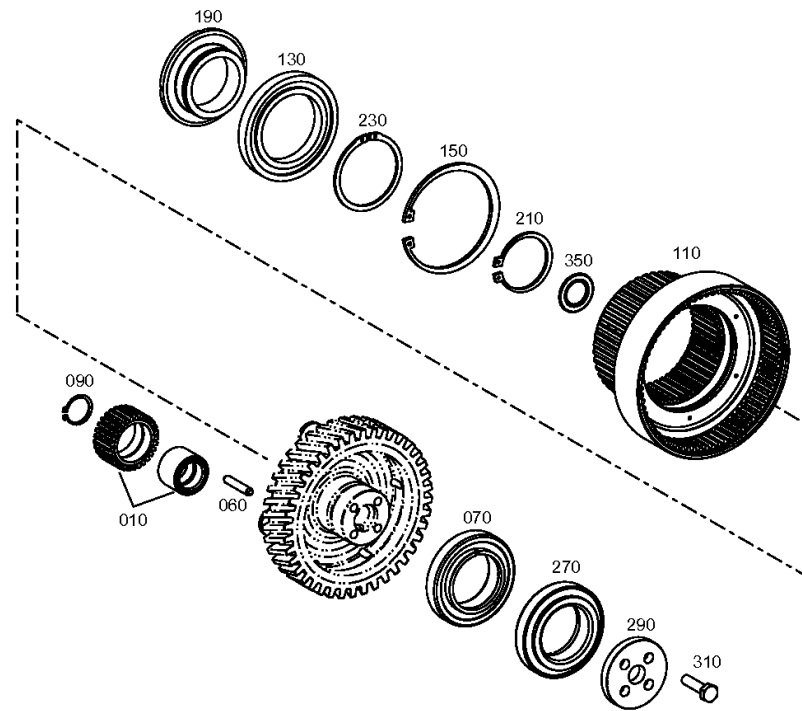
Material number: 4143.020.133

Plant: 414311501730

Material-assembly-group-no: 4143.115.017



2 HL 270 /
PLANETARY DRIVE



Plant

Page 1 from 1

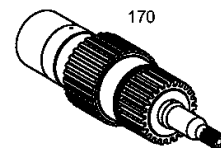
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Plant: 414311540130

Material-assembly-group-no: 4143.115.401



2 HL 270 /
PLANETARY DRIVE



Plant

Page 1 from 1

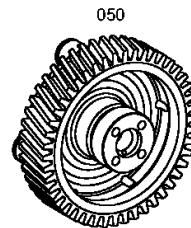
Material number: 4143.020.133

Plant: 414311540530

Material-assembly-group-no: 4143.115.405



2 HL 270 /
PLANETARY DRIVE



Plant

Page 1 from 1

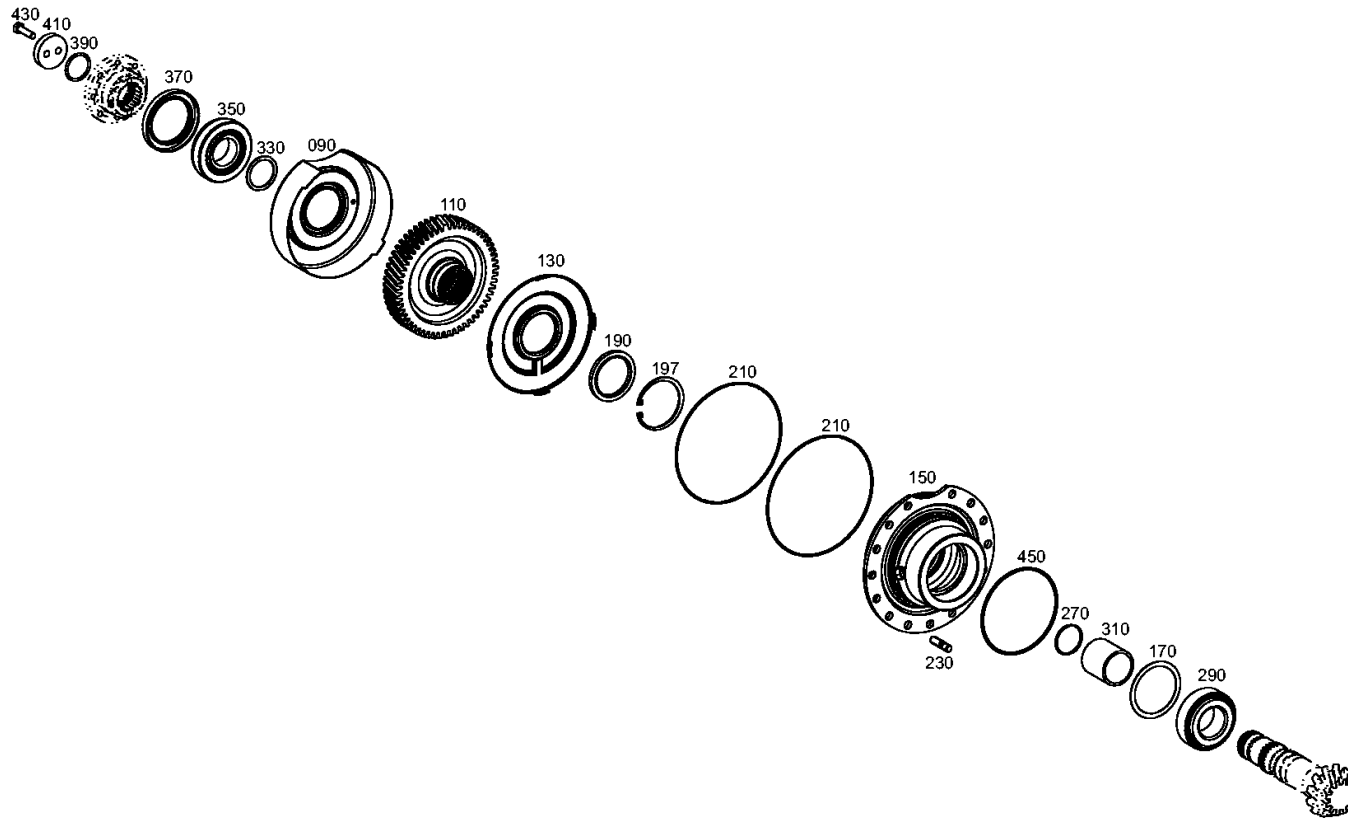
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Plant: 414310303630

Material-assembly-group-no: 4143.103.036



2 HL 270 /
OUTPUT



Plant

Page 1 from 1

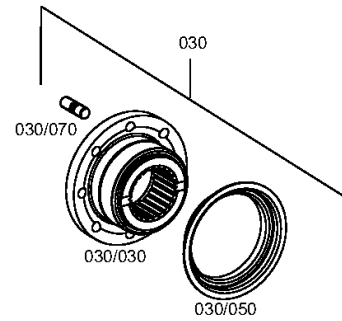
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Plant: 414310342050

Material-assembly-group-no: 4143.103.420



2 HL 270 /
OUTPUT



Plant

Page 1 from 1

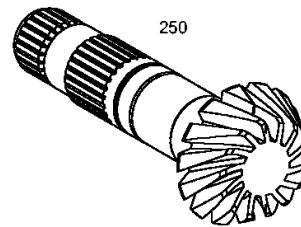
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Plant: 414310342130

Material-assembly-group-no: 4143.103.421



2 HL 270 /
OUTPUT



Plant

Page 1 from 1

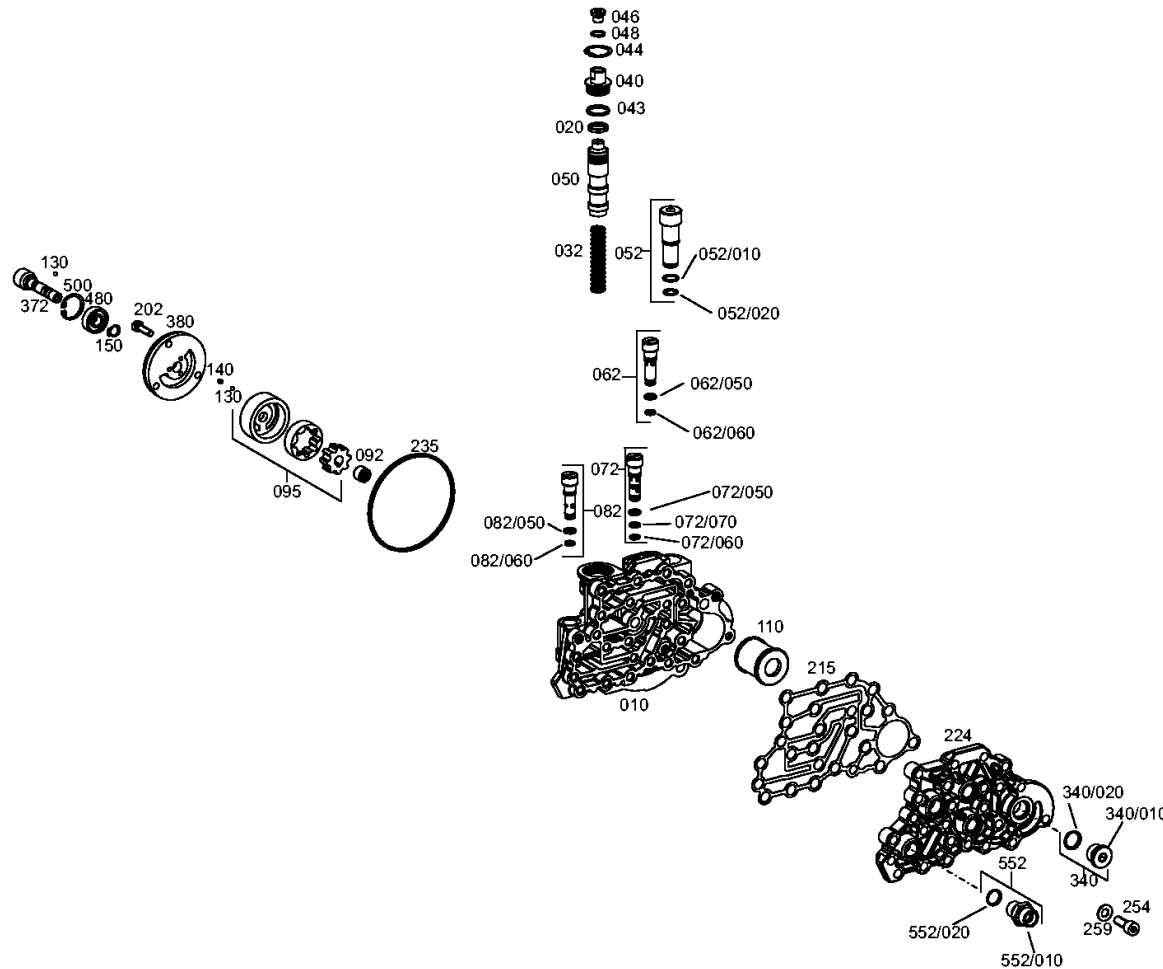
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Plant: 414314202500

Material-assembly-group-no: 4143.142.025



2 HL 270 /
GEAR SHIFT SENSOR



Plant

Page 1 from 1

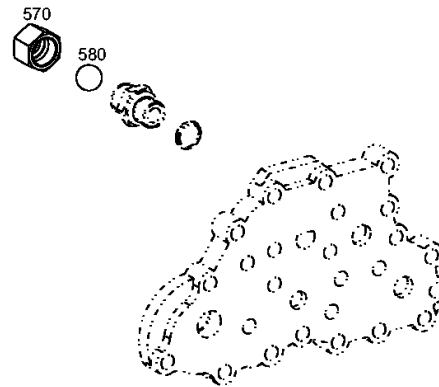
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Material-assembly-group-no: 4143.142.406



2 HL 270 /
GEAR SHIFT SENSOR



Plant

Page 1 from 1

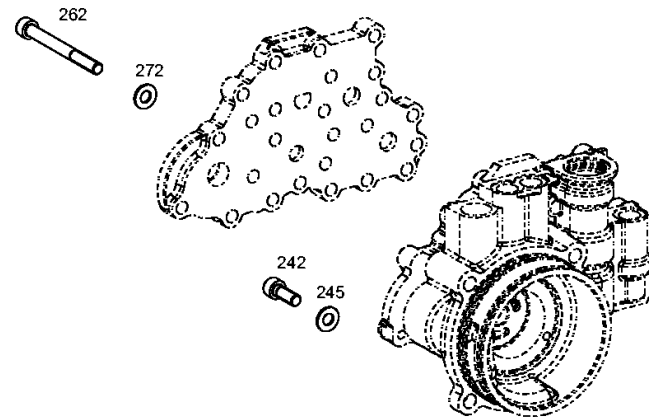
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2 HL 270 /
GEAR SHIFT SENSOR



Plant

Page 1 from 1

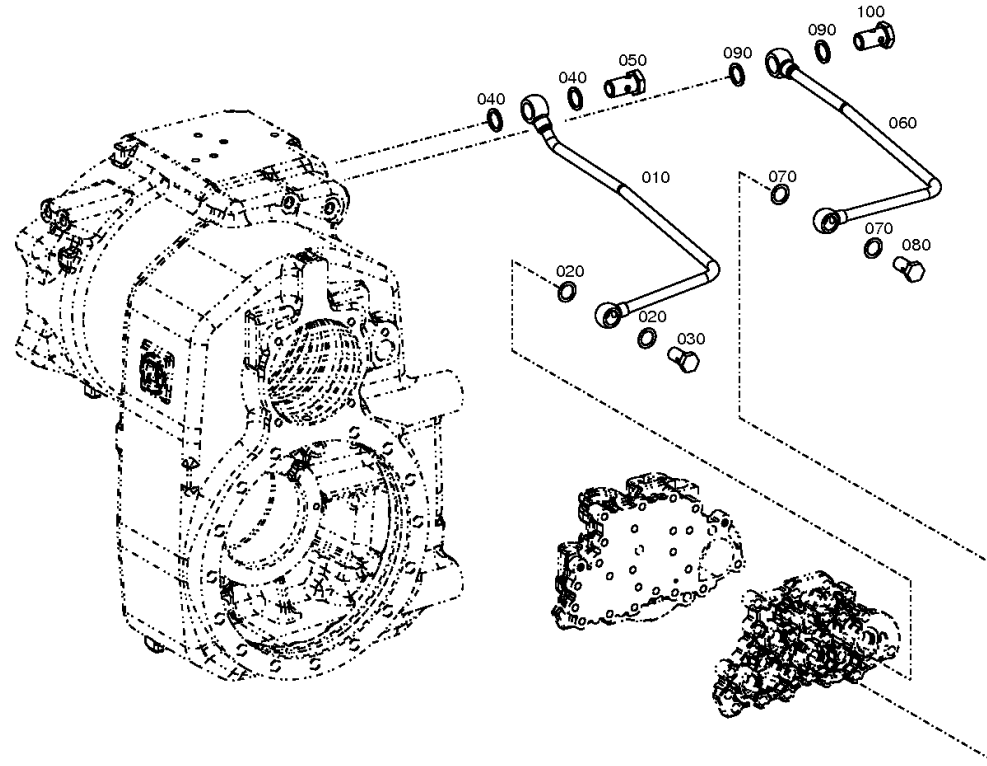
Material number: 4143.020.133

Plant: 414312101100

Material-assembly-group-no: 4143.121.011



2 HL 270 /
OIL PIPE



Plant

Page 1 from 1

Material number: 4143.020.133

Plant: 414313900100

Material-assembly-group-no: 4143.139.001



2 HL 270 /
TYPE PLATE



010