



SPITZNAS
CUSTOMIZED POWER SOLUTIONS

Hydraulic Rotary Hammer Drill

Type 2 2418 0010

ATEX and Underwater Tool

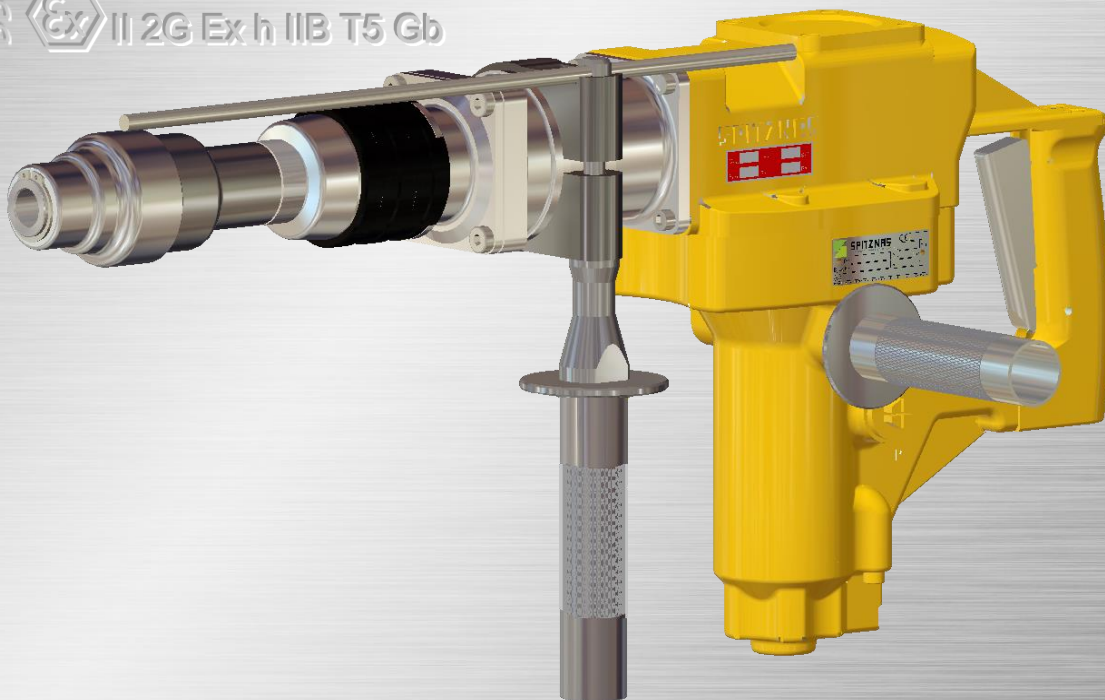


Illustration can differ from the original

Repair Manual and Spare Parts List

Translation of the original repair manual,
compiled: 12.09.22

Techn. Doc. No. 262

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Repair

General

In general, observe the safety regulations and instructions: refer to the operation manual.
The disassembly and re-assembly is done only according to the technical drawing.
In case of damages, our service is at your disposal.

Do not disassemble the tool until you know whether the problem is in one of the modules.
Then disassemble the tool only as necessary to repair as required. Keep contaminants such as dirt and grit away from the internal parts at all times.

Always identify and correct the cause of the problem prior to re-assembling. Further wear and tool failure can result, if the original cause is not corrected.

Information for exact identification of the problem is given in the unit "Troubleshooting" of the operation manual.

Notice: The particular installation direction of the parts mentioned in the following process instructions is indicated in the drawings and the parts lists at the end of this instruction.

Re-assembly

Before starting reassembly, check all parts for wear and replace them, if necessary. Wear parts are in particular o-rings, radial shaft seals and bearings.

We recommend changing the grease in the gear housing after 300 hours of operation.
Use special-purpose gear grease only:

Consistency class (DIN 51818)	2
Saponification type	Lithium
Worked penetration	265 to 295
Temperature range	-25°C to +125°C

The proper quantity of grease is very important from the point of good lubrication and low heat generation.
The grease quantities listed in the following table must be complied with:

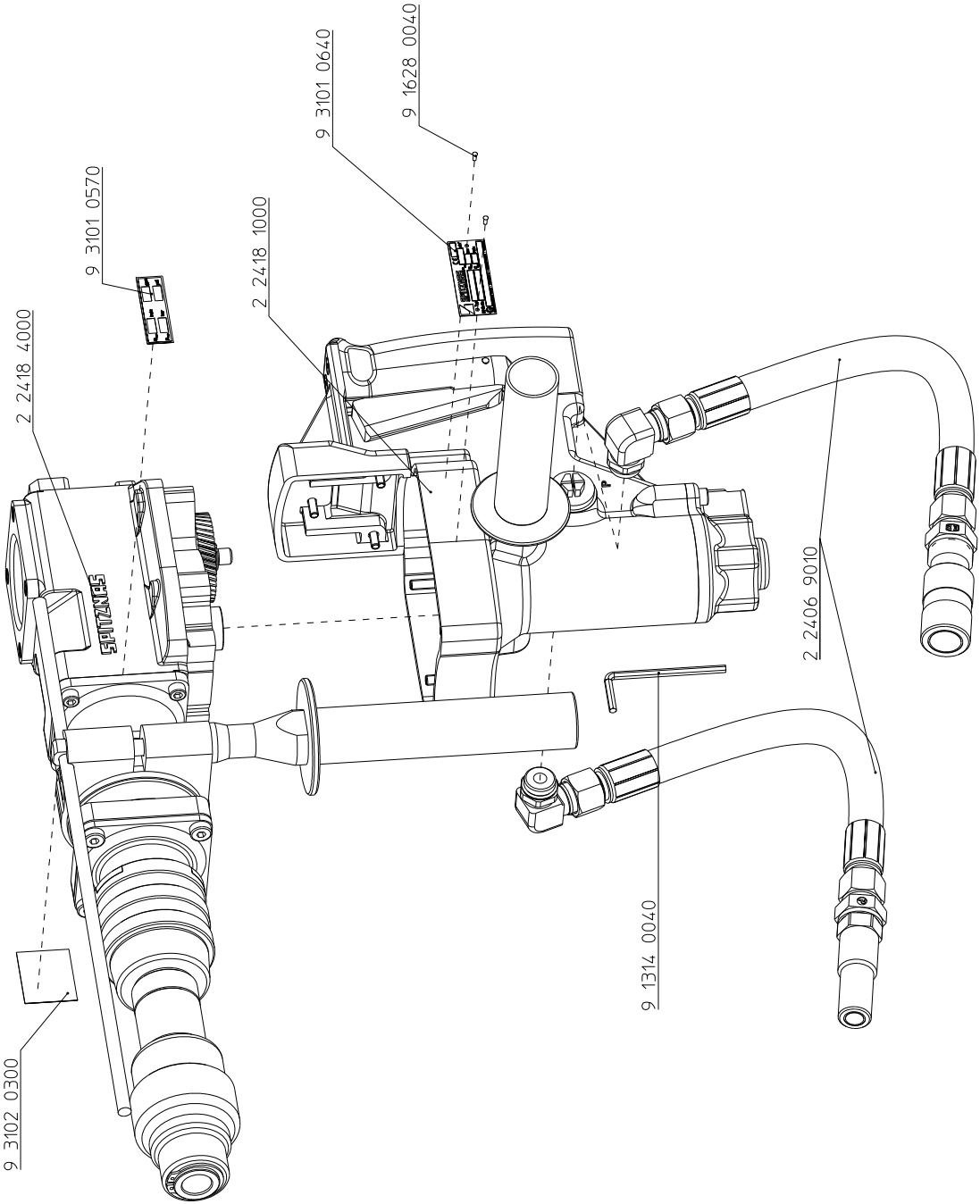
Grease	Quantity in grams
In the crank casing	5
In the bevel gear	5
In the spur gear	10
In the planetary gear	10
Grease SPITZNAS reference no. 9 9902 0130 (400 g), 9 9902 0250 (100 g)	

Spare Parts

Only genuine Spitznas spare parts may be used.

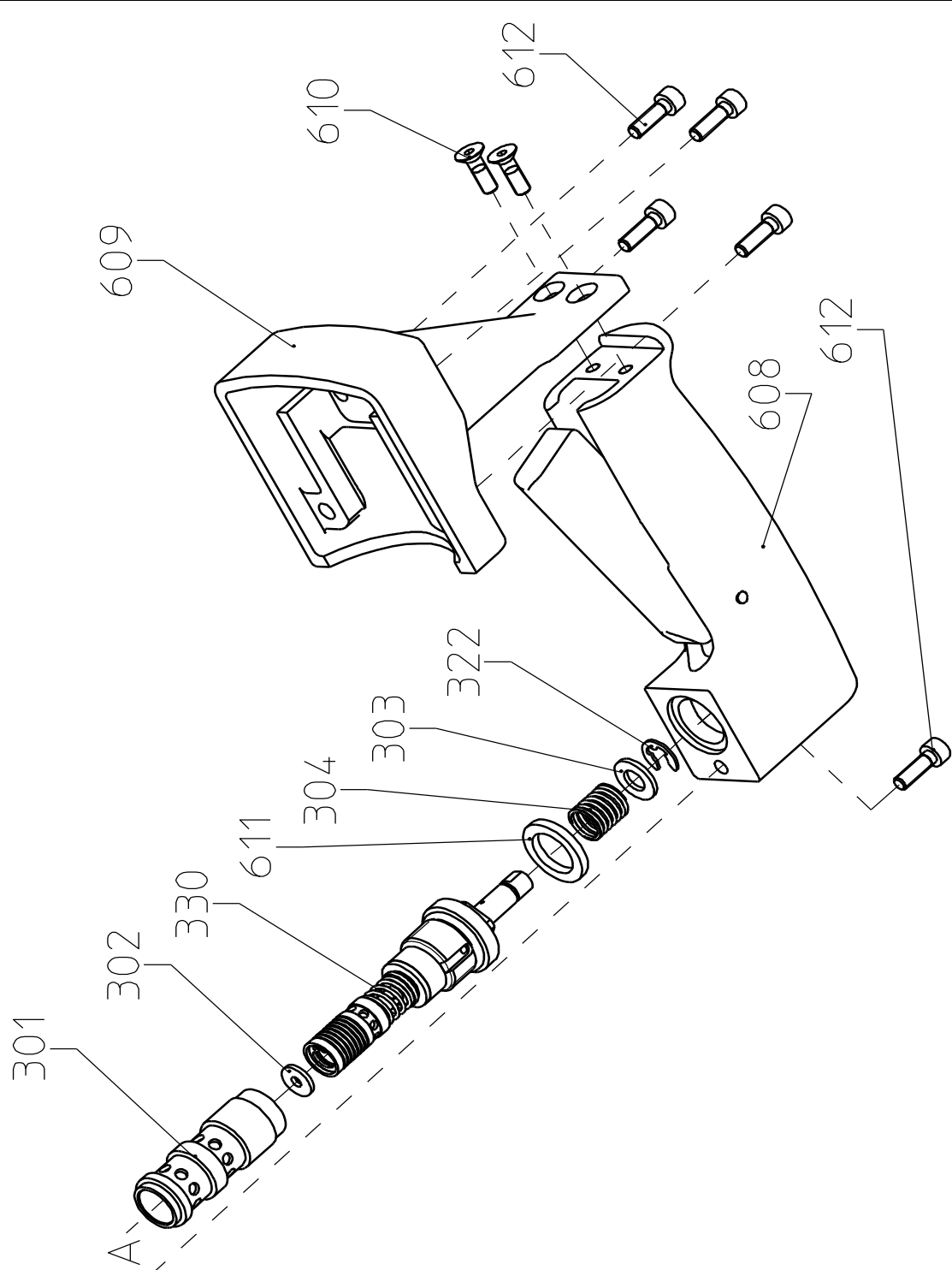
There is no warranty for damages and liability is disclaimed by Spitznas, if non-original spare parts and accessories are used.

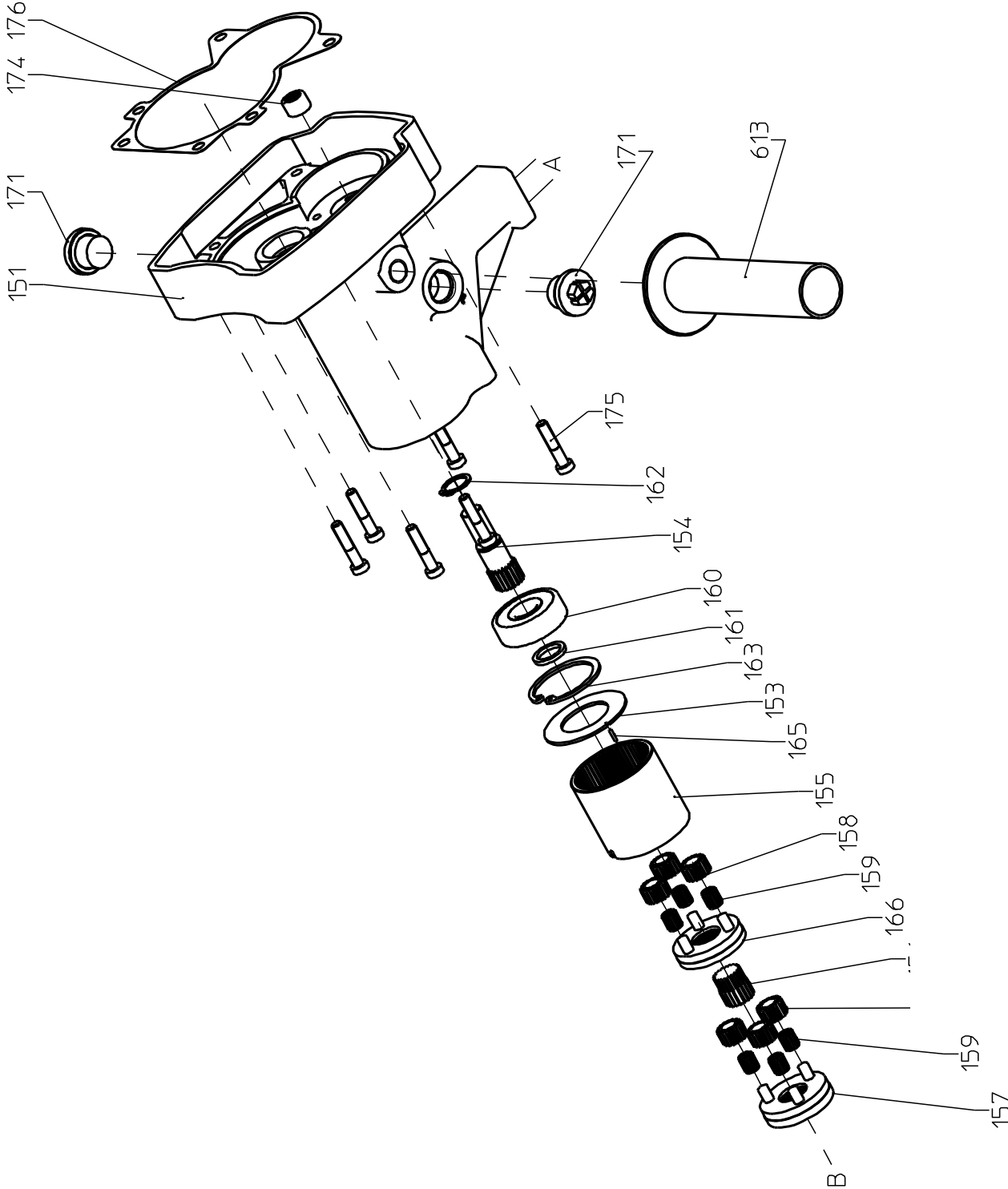
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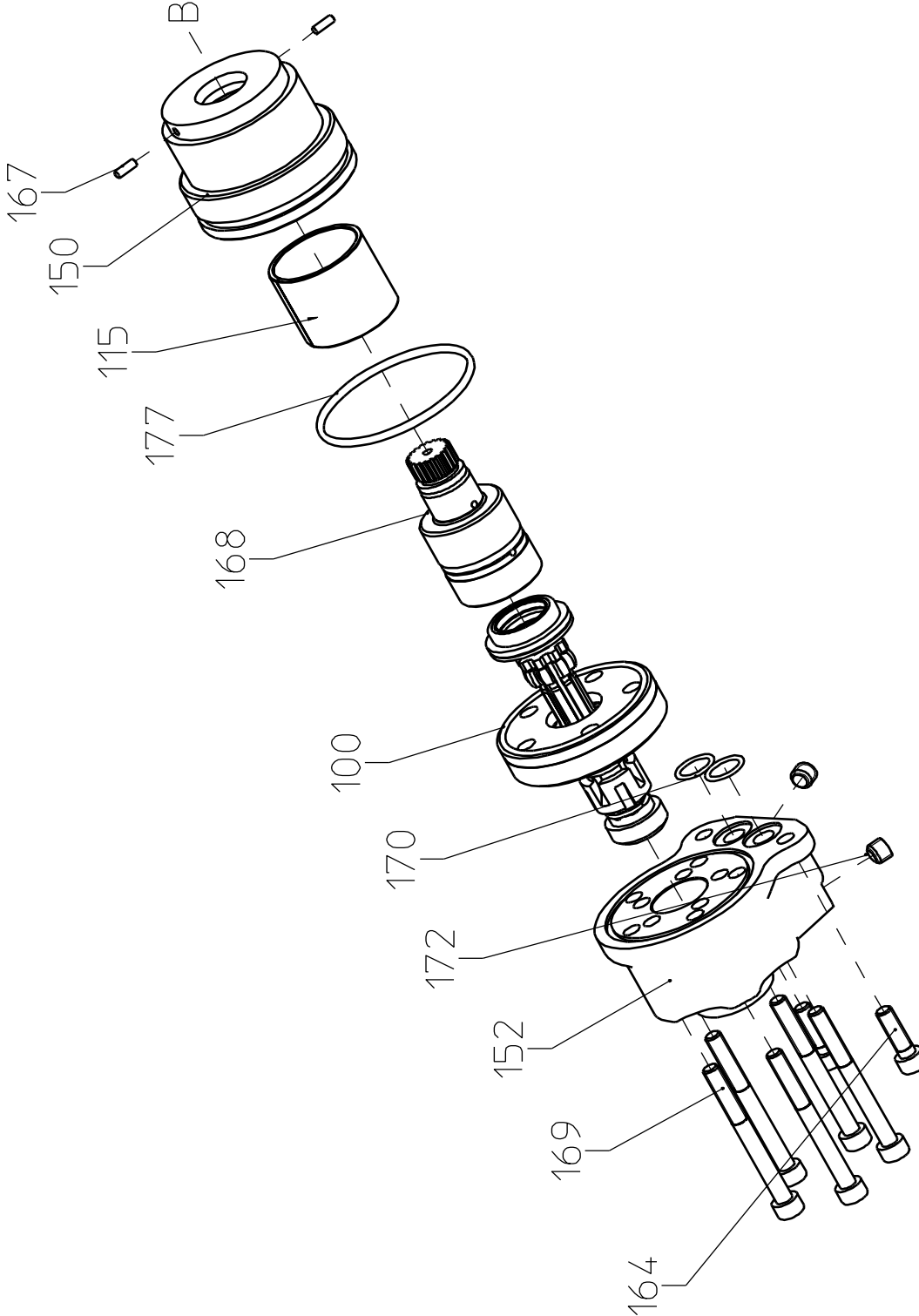
Spare Parts List	
Description:	Sach- und Zeichnungsnummer:
Hydraulic Rotary Hammer Drill	2 2418 0010
	

Spare Parts List					
Description:			Part and drawing number:		
Hydraulic Drive			2 2418 1000		
Item	Qty.	Description	Part and drawing no.		Remarks
100	1	Hydraulic motor	9 5501 0130		see extra list
150	1	Motor housing, assy.	2 2407 1910		with item 115
115	1	Bushing	9 1029 0530		
151	1	Drive housing, assy.	2 2418 4910		with item 301
301	1	Governor sleeve	2 1317 3310		
152	1	Motor cover, assy.	2 2407 1930		with item 172
172	2	Threaded pin	9 1140 5080		
153	1	Stop disc	2 2407 4180		
154	1	Pinion shaft	2 2418 4170		
155	1	Gear rim	2 2407 4220		
156	1	Pinion	2 2407 4370		
157	1	Planet wheel, assy.	3 8837 4920		
158	6	Planet wheel	3 8837 4140		
159	6	Needle cage	9 1015 0790	*	
160	1	Grooved ball bearing	9 1005 0200	*	
161	1	Washer	2 2407 4150		
162	1	Snap ring	9 1702 0080		
163	1	Snap ring	9 1703 0130		
164	2	Socket head screw	9 1110 4390		
165	1	Cylinder pin	9 1619 1700		
166	1	Planet carrier, assy.	2 2407 4920		
167	2	Cylinder pin	9 1619 0450		
168	1	Drive shaft	2 2406 1050		
169	5	Socket head screw	9 1110 4160		
170	2	O-ring	9 1921 4410	*	
171	2	Plug	9 3401 1090		
174	1	Needle sleeve	9 1014 0470		
175	6	Socket head screw	9 1112 4060		
176	1	Sealing	2 2414 1160	*	
177	1	O-ring	9 1921 2020	*	
302	1	Gate	5 1220 3050		

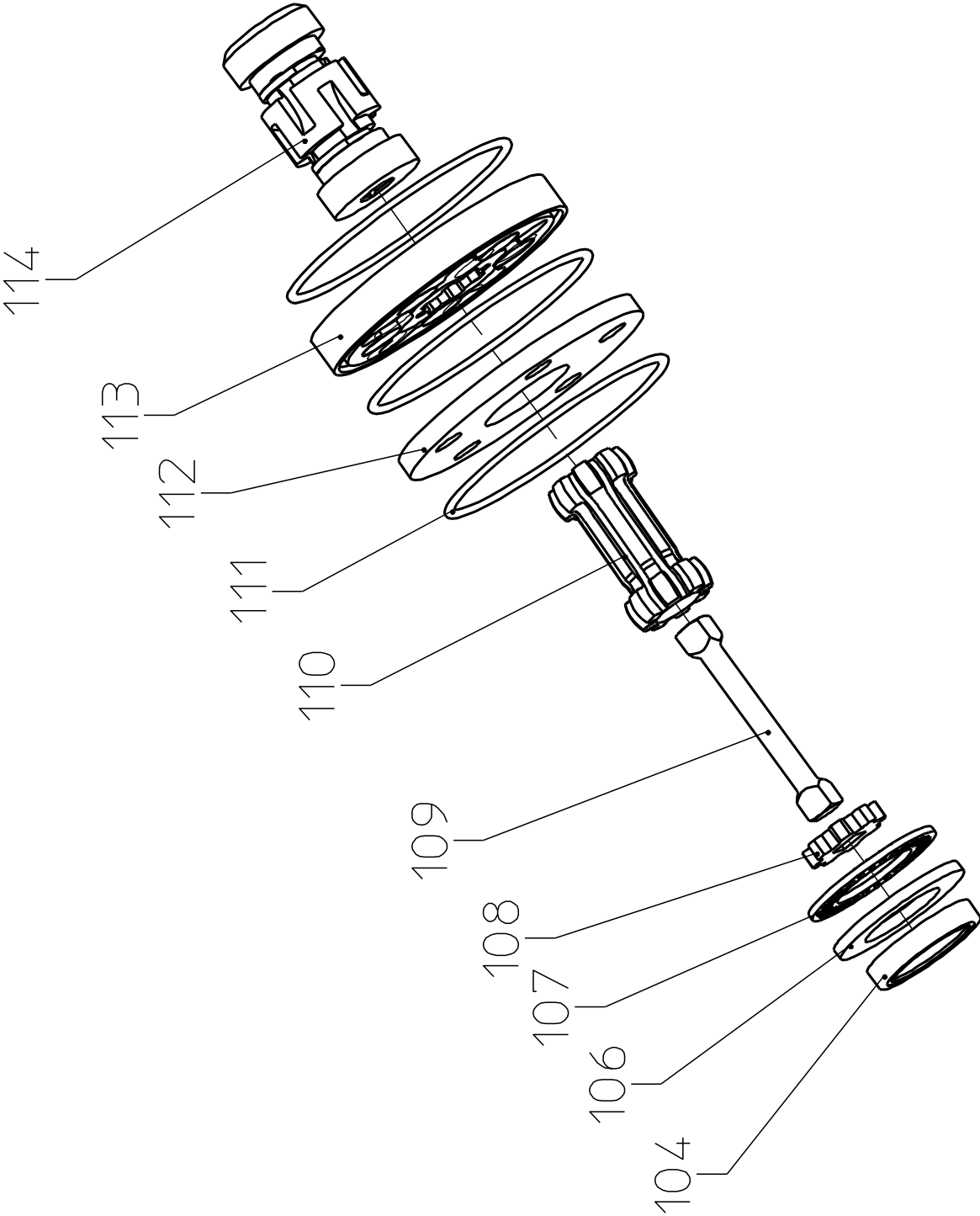
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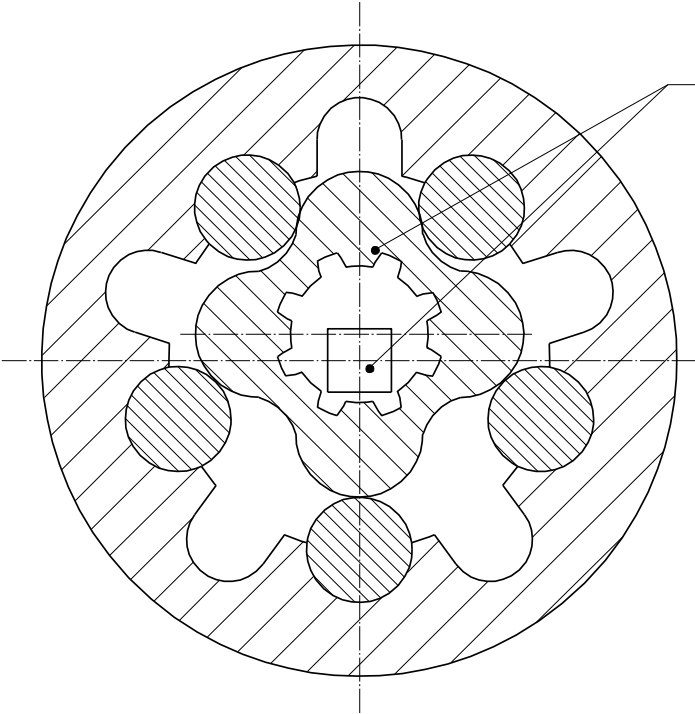
Spare Parts List	
Description:	Part and drawing number:
Hydraulic Drive	2 2418 1000
	

Spare Parts List	
Description:	Part and drawing number:
Hydraulic Drive	2 2418 1000
	

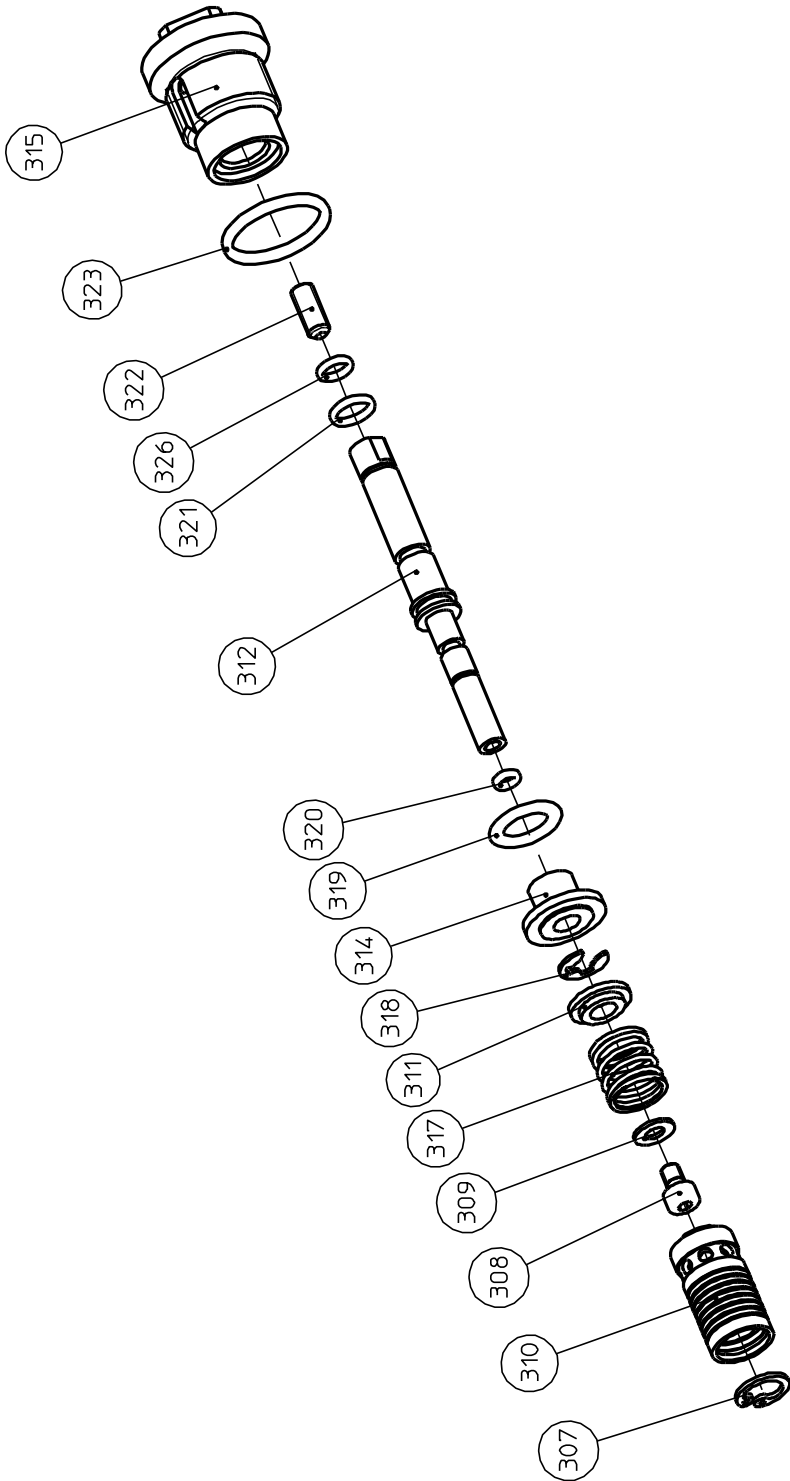
Spare Parts List	
Description:	Part and drawing number:
Hydraulic Drive	2 2418 1000
	

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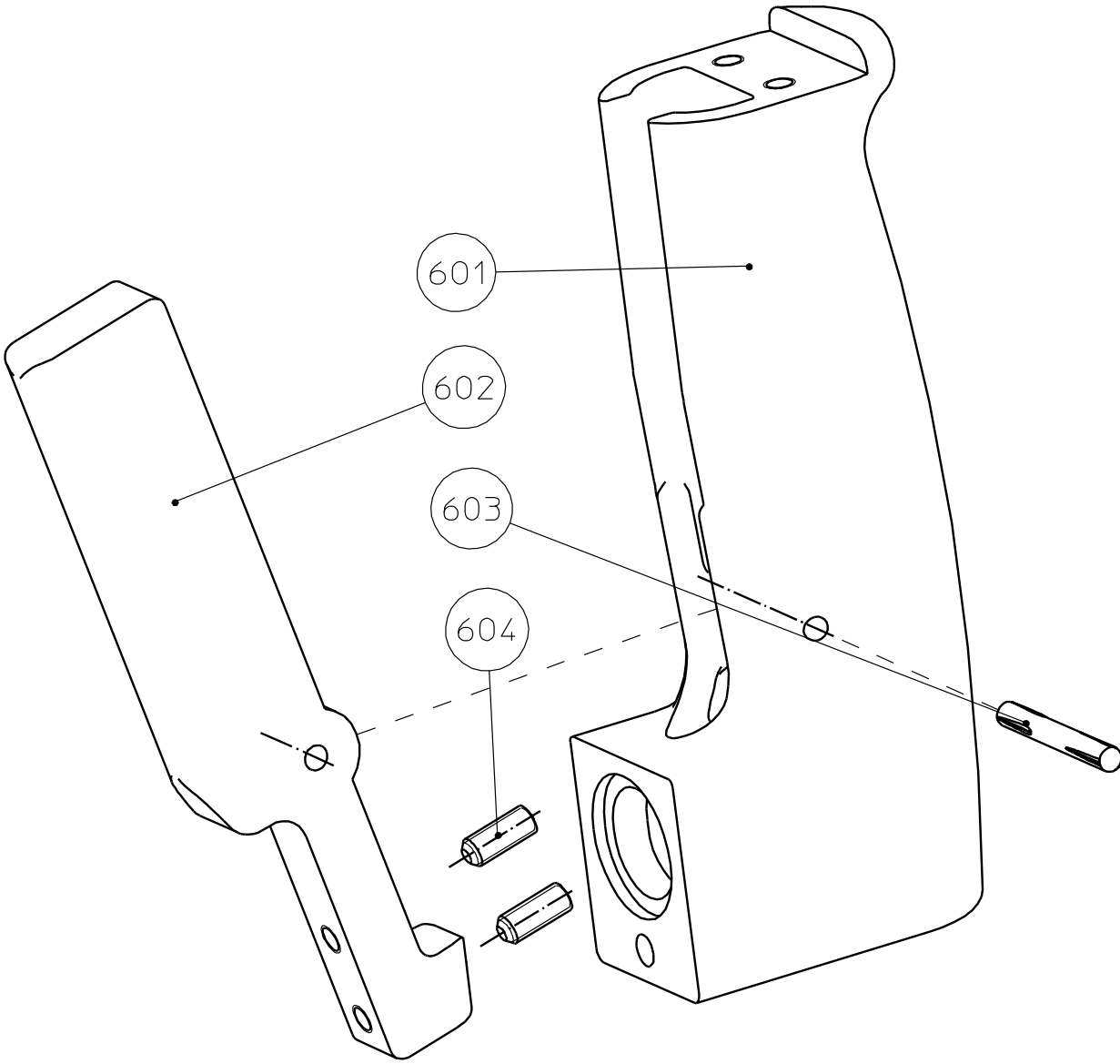
Spare Parts List	
Description:	Part and drawing number:
Hydraulic Motor	9 5501 0130
	

Spare Parts List	
Description:	Part and drawing number:
Hydraulic Motor	9 5501 0130
 * mind position of rotor and square (condition of delivery)	

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Spare Parts List	
Description:	Part and drawing number:
Valve Insert, Assy.	2 1317 3300
	

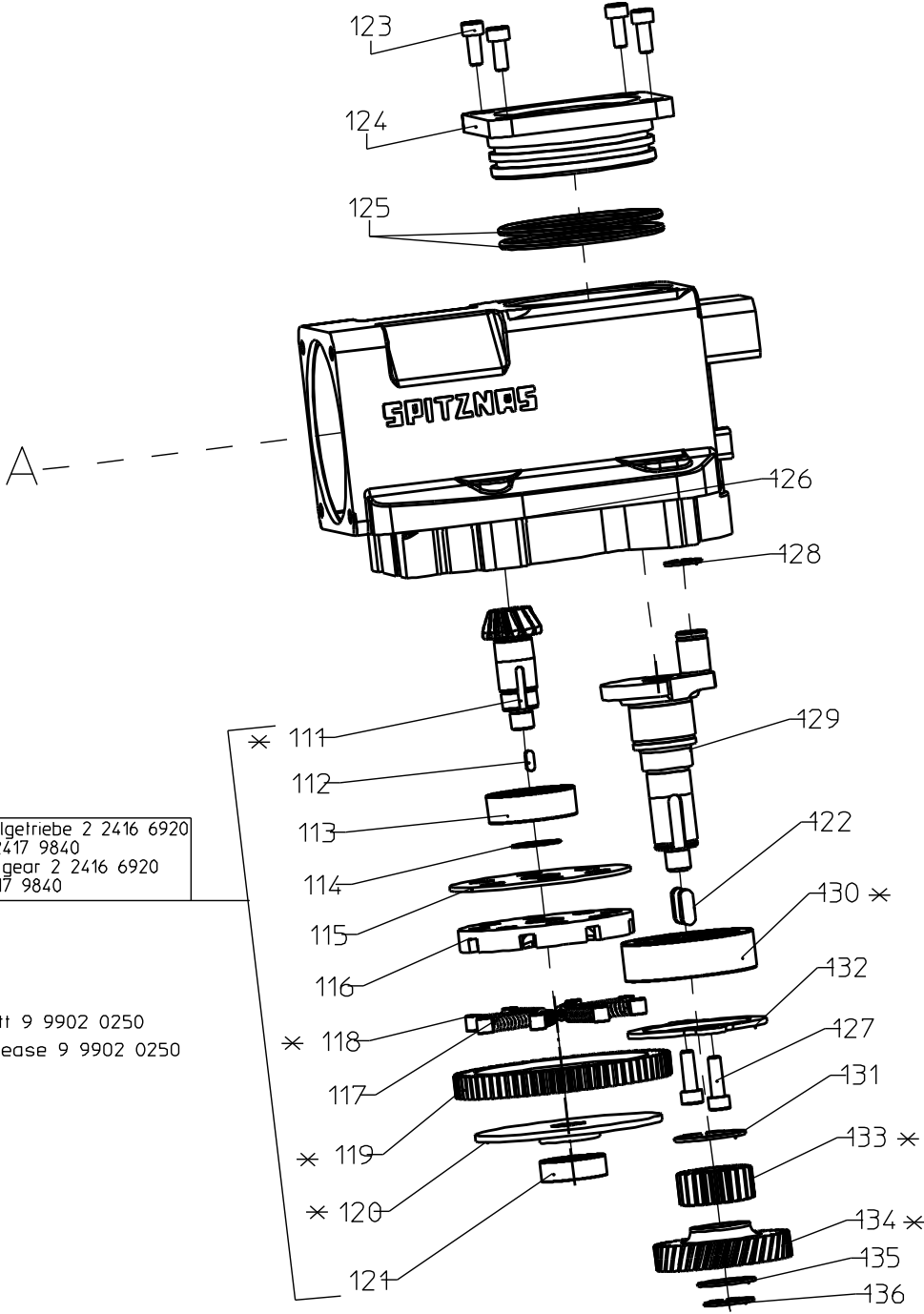
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Spare Parts List	
Description:	Part and drawing number:
Handle, Assy.	2 2406 7000
	

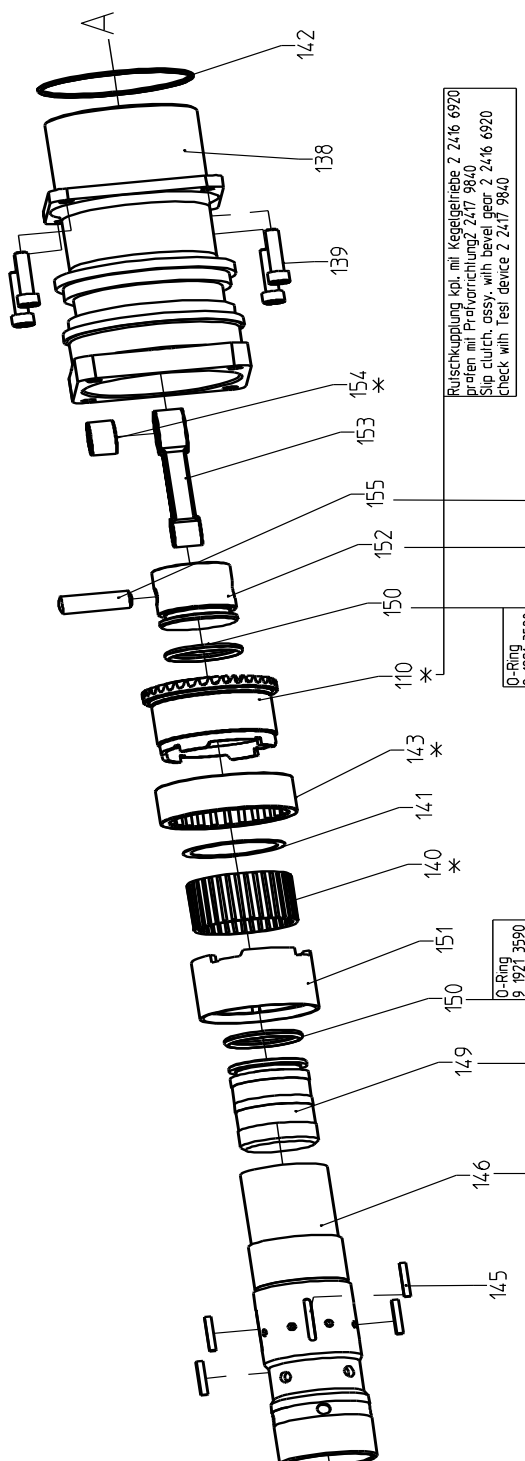
Spare Parts List					
Description:			Part and drawing number:		
Gearbox			2 2418 4000		
Item	Qty.	Description	Part and drawing no.		Remarks
101	1	Cap	2 2418 4720		
102	1	Snap ring	9 1702 0150		
103	1	Needle holder	2 2414 4470		
104	1	Pressure spring	9 1803 4750		
105	1	Shaft seal	9 1905 0530	*	
106	1	Plastic ring	2 2414 4380	*	
107	1	Ring holder	2 2414 4390		
108	1	Snap ring	9 1702 0180		
109	1	Grooved ball bearing	9 1003 0090	*	
	1	Slip clutch, assy. with bevel gear	2 2416 6920		item 110-121
	1	Bevel gear (pinion + wheel)	2 2417 4950		with item 110-111
110	1	Gear wheel	2 2417 4640		
111	1	Gear pinion	2 2414 4630		
112	1	Feather key	9 1501 1220		
113	1	Grooved ball bearing	9 1004 0160	*	
114	1	Adjusting washer	9 3331 1360		
115	1	Washer	2 2414 4670		
116	1	Support disc	2 2414 4700		
117	8	Pressure spring	9 1803 4780		
118	8	Cylinder roller	9 1016 0490		
119	1	Gear pinion	2 2414 4240		
120	1	Cover disc	2 2414 4770		
121	1	Grooved ball bearing	9 1001 0390	*	
122	2	Feather key	9 1501 3570		
123	4	Socket head screw	9 1110 3080		
124	1	Gearbox housing cover	2 2416 4090		
125	2	O-ring	9 1901 3480	*	
126	1	Gearbox housing, assy.	2 2416 4910		
127	2	Socket head screw	9 1110 3120		
128	1	Snap ring	9 1702 0050		
129	1	Crankshaft	2 2414 4550		
130	1	Grooved ball bearing	9 1004 0380	*	
131	1	Snap ring	9 1702 0140		

Spare Parts List					
Description:			Part and drawing number:		
Gearbox			2 2418 4000		
Item	Qty.	Description	Part and drawing no.		Remarks
132	1	Bearing cover	2 2414 4160		
133	1	Spur gear	2 2414 4340		
134	1	Spur gear	2 2414 4440		
135	1	Spacer ring	2 2414 4280		
136	1	Snap ring	9 1702 0100		
137	6	Needle roller	2 2414 4680		
138	1	Output housing	2 2418 4510		
139	4	Socket head screw	9 1110 4350		
140	1	Needle cage	9 1015 1220	*	
141	1	Disc	2 2414 4370		
142	1	O-ring	9 1901 3190	*	
143	1	Needle sleeve	9 1014 0480		
144	4	Cylinder roller	9 1016 0490		
145	2	Feather key	9 1507 9130		
146	1	Cylinder	2 2416 4600		
147	1	Sleeve	2 2414 4490		
148	1	Pressure spring	9 1803 4760		
149	1	Impact piston	2 2414 4620		
150	2	O-ring	9 1921 3590	*	
151	1	Coupling	2 2418 4610		
152	1	Piston	2 2414 4520		
153	1	Connecting rod, assy.	2 2414 4530		with item 154
154	1	Needle bearing	9 1013 0290	*	
155	1	Gudgeon pin	2 2414 4560		
156	1	Second handle, assy.	2 2415 6910		
160	1	Handle holder, assy.	2 2416 6950		
161	1	Handle bolt	2 2414 6920		
162	1	Depth stop	2 2414 9100		
163	1	Holder sleeve	2 2418 4300		
164	1	Centring bushing	2 2417 4370		
165	2	O-ring	9 1901 4330	*	

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Spare Parts List	
Description:	Part and drawing number:
Gearbox	2 2418 4000
Rutschkupplung kpl. mit Kegelgetriebe 2 2416 6920 prüfen mit Prüfvorrichtung 2 2417 9840 Slip clutch. assy. with bevel gear 2 2416 6920 check with Test device 2 2417 9840 * nur Fett 9 9902 0250 only grease 9 9902 0250 	

Spare Parts List	
Description: Gearbox	Part and drawing number: 2 2418 4000



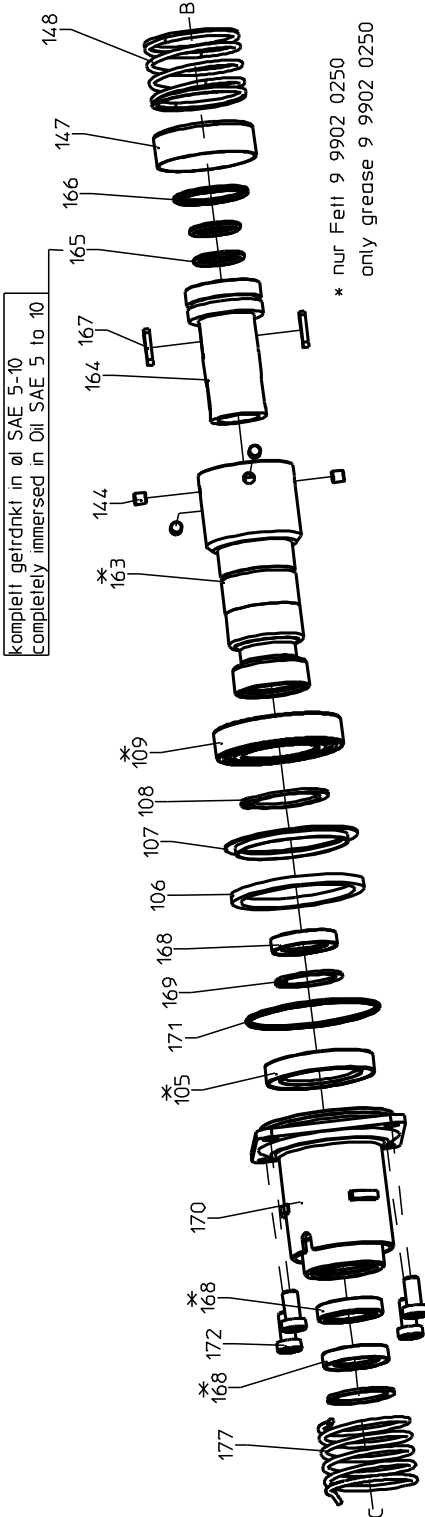
Rutschkupplung kpl. mit Kegelegehrte 2 2416 6920
prüfen mit Prüfvorrichtung 2417 9840
Slip clutch, assy. with bevel gear 2 2416 6920
check with Test device 2 2417 9840

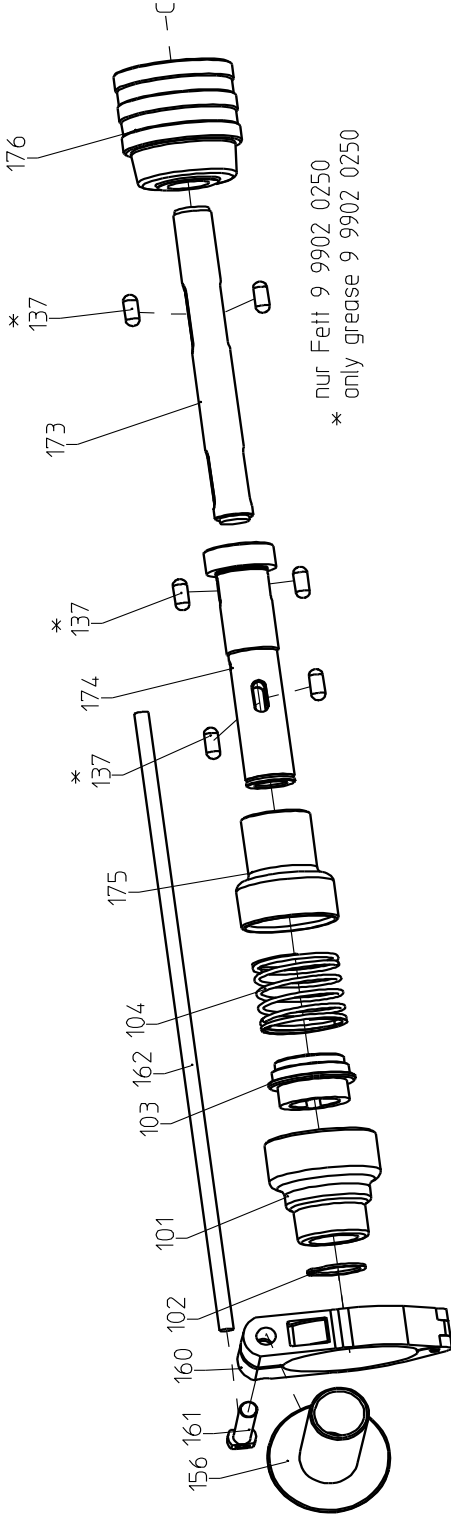
* nur Fett 9 9902 0250
only grease 9 9902 0250

O-Ring
9 1921 3590

O-Ring
9 1921 3590

komplett geölt in Öl SAE 5-10
completely immersed in Oil SAE 5 to 10

Spare Parts List	
Description:	Part and drawing number:
Gearbox	2 2418 4000
 komplett getränkt in öl SAE 5-10 completely immersed in Oil SAE 5 to 10 * nur Fett 9 9902 0250 only grease 9 9902 0250	

Spare Parts List	
Description:	Part and drawing number:
Gearbox	2 2418 4000
	



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