



HYDRAULIC HAMMER

RAMMER 2166E

STD

2166EA0185-UP

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GENUINE RAMMER SPARE PARTS

Rammer genuine spare parts are designed and manufactured by using the latest technological knowledge and engineering skills. Rammer spare parts are made of the best available materials with the most advanced manufacturing techniques.

It is important that you use only genuine Rammer spare parts, to ensure easy operation, maintenance and repair of the product. Please note that eventual warranty claims will be handled only if you have used genuine Rammer parts in your Rammer.

LOCATION OF THE SERIAL NUMBER

It's important to make correct reference to the serial number of the product when ordering spare parts. Identification of serial number is the only proper means of maintaining and identifying parts for a specific product. The location of equipment serial number is pointed in "Operation and maintenance" manual.

SPARE PART ORDERS

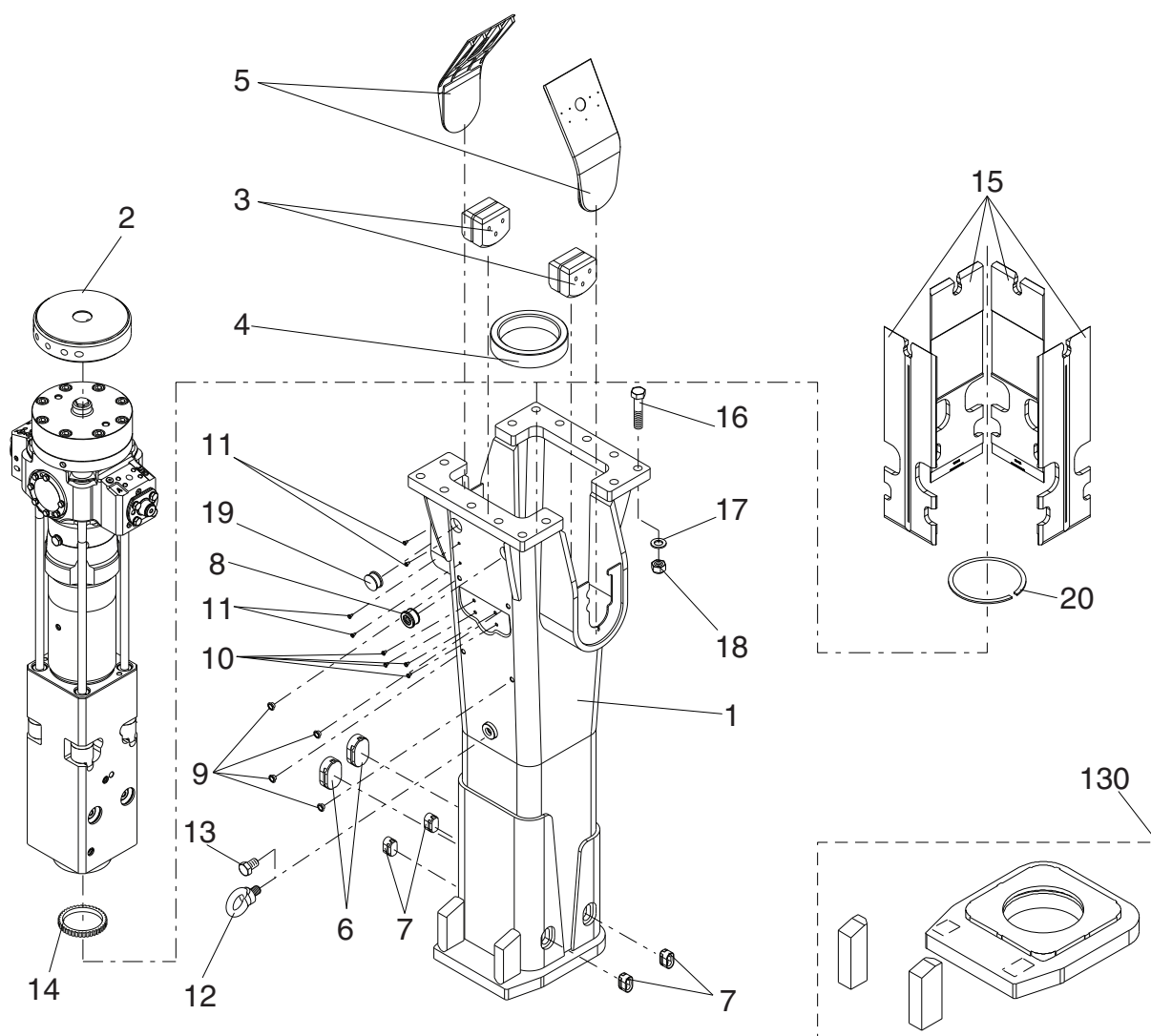
Quick spare part deliveries are secured by exact orders.

Required information:

- Name of customer and contact person
 - Order number (when available)
 - Delivery address
 - Mode of delivery (air mail etc.)
 - Required delivery date
 - Invoicing address
 - Model and serial number of the product
 - Name, number and required amount of spare parts
-

PARTS

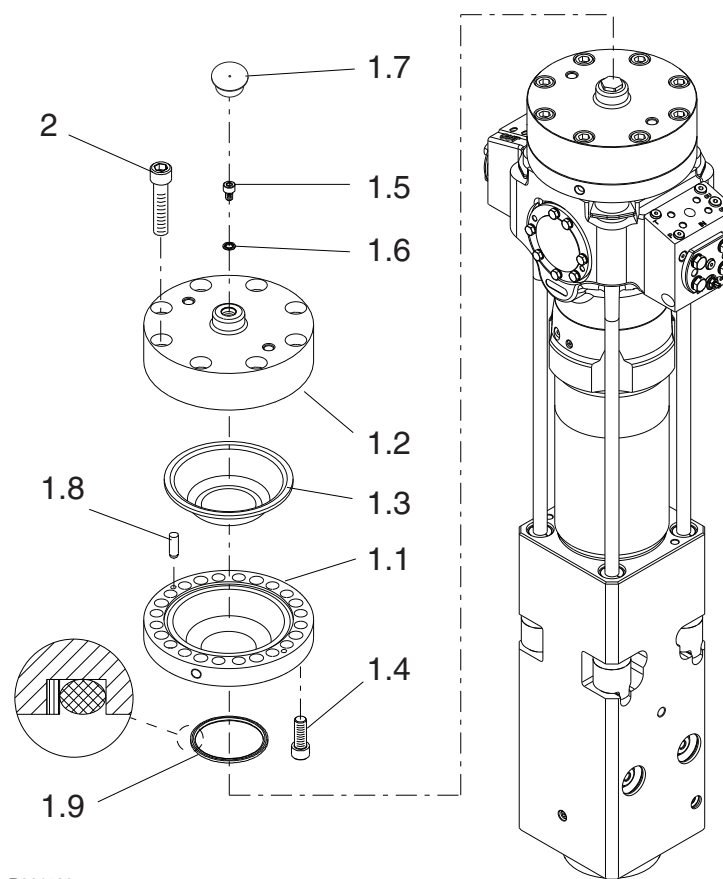
1. HOUSING UNIT



R061591

Item	Description	Part no.	Specification	Note	Qty
1	Housing	183899			1
2	Buffer	301000			1
3	Pad	301001			2
4	Seal	177637			1
5	Shield plate	162381			2
6	Rubber plug	162657			2
7	Rubber plug	177374			4
8	Rubber plug	158147			1
9	Rubber plug	953291			4
10	Rubber plug	953332			4
11	Rubber plug	953292			4
12	Lifting eye	90605	M24 DIN 580		1
13	Hex. screw	900025	M24x35-8.8 ISO 4017		1
14	Tool seal	177642			1
15	Wear plate	182418			4
16	Hex. screw	90589	M24x110-12.9 ISO 4014		14
17	Washer	90511	25 ISO 7416		14
18	Lock nut	90507	M24-12 DIN 985		14
19	Rubber plug	165434			1
20	Spring ring	182419			1
130	Wear parts	181222			1
200	Label set (incl. part 200.1)	178083			1
200.1	Safety label set	169400	English		1

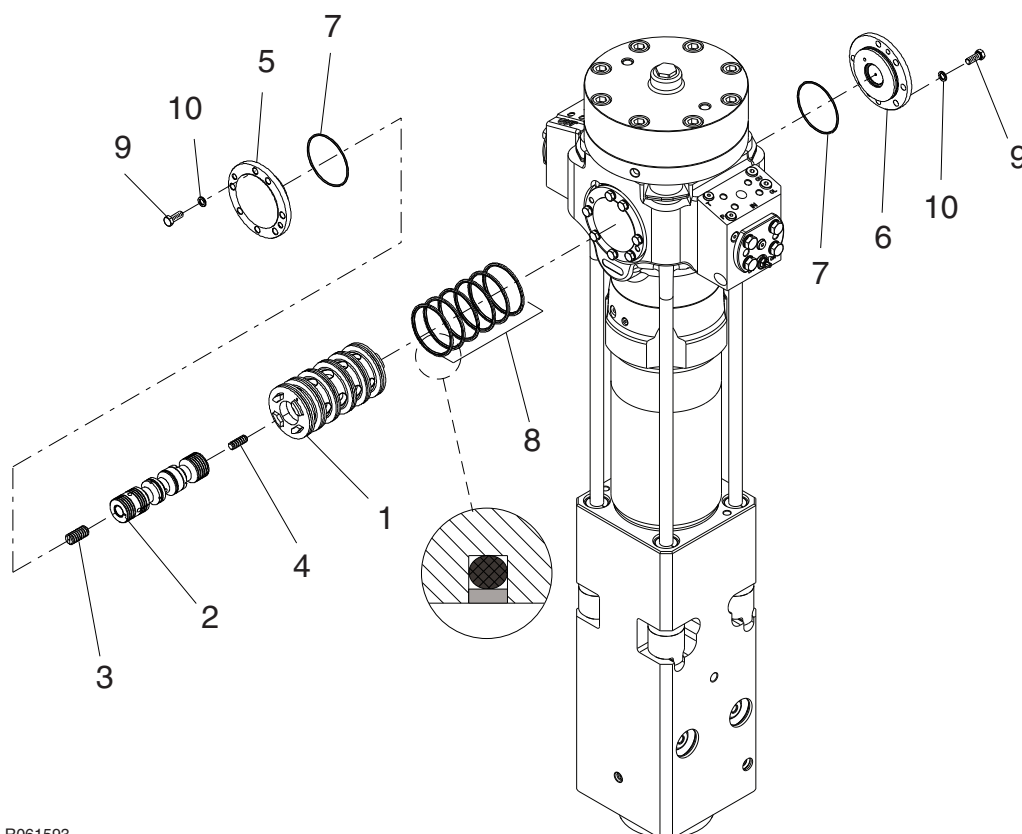
2. ACCUMULATOR



R061592

Item	Description	Part no.	Specification	Note	Qty
1	Accumulator (incl. parts 1.1-1.9)	163225			1
1.1	Accumulator bottom	100303			1
1.2	Accumulator cover	163226			1
1.3	Membrane	30211			1
1.4	Accumulator screw	40416			16
1.5	Filling plug	40368			1
1.6	O-ring	90056	8-13.9-1	*	1
1.7	Shield plug	954323			1
1.8	Parallel pin	90304	10x24 ISO 8734		2
1.9	Seal	40104	D114	*	1
2	Accumulator screw	900050	M24x130-8.8 ISO 4762		8
	*) Are included in seal set				

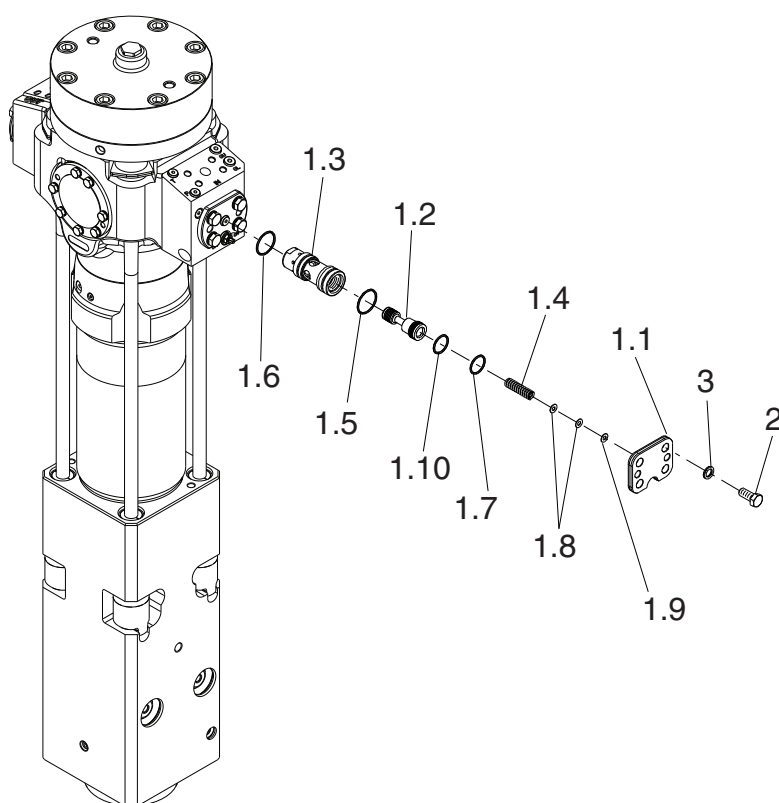
3. MAIN VALVE



R061593

Item	Description	Part no.	Specification	Note	Qty
1	Main valve bushing	103841			1
2	Main spool	162192			1
3	Spool	162194			1
4	Spool	400325			1
5	Cover	162114			1
6	Cover	300459			1
7	O-ring	90005	D105	*	2
8	Seal	902668	D110	*	6
9	Hex. screw	900023	M12x30-10.9 ISO 4017		14
10	Lock washer	91012	M12 NORD-LOCK		14
	*) Are included in seal set				

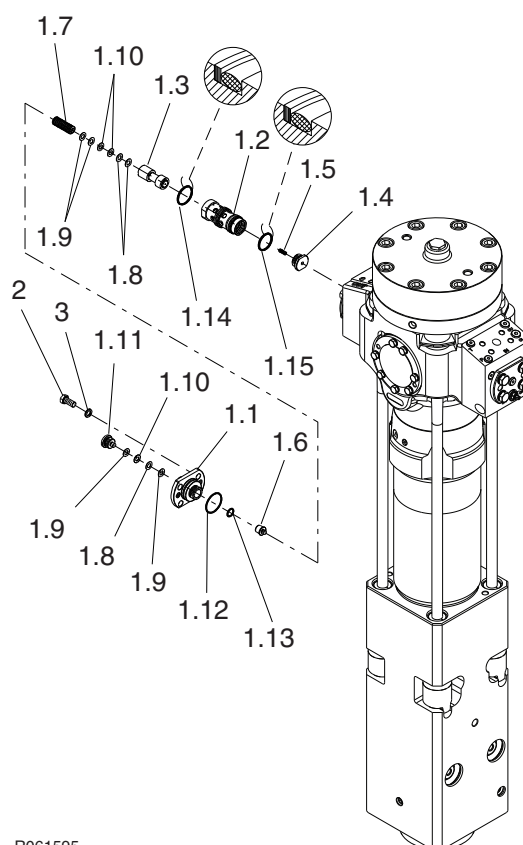
4. RAMVALVE



R061594

Item	Description	Part no.	Specification	Note	Qty
1	Ramvalve (incl. parts 1.1-1.10)	162168			1
1.1	Cover	158952			1
1.2	Spool	174665			1
1.3	Valve housing	162169			1
1.4	Spring	952162			1
1.5	O-ring	90031	D46	*	1
1.6	O-ring	90007	D44	*	1
1.7	O-ring	90017	D34	*	1
1.8	Shim plate	41639	S=0.5		X
1.9	Shim plate	41640	S=1		X
1.10	Seal	954341		*	1
2	Hex. screw	90517	M16x35-8.8 ISO 4017		4
3	Lock washer	90597	M16 NORD-LOCK		4
	*) Are included in seal set				

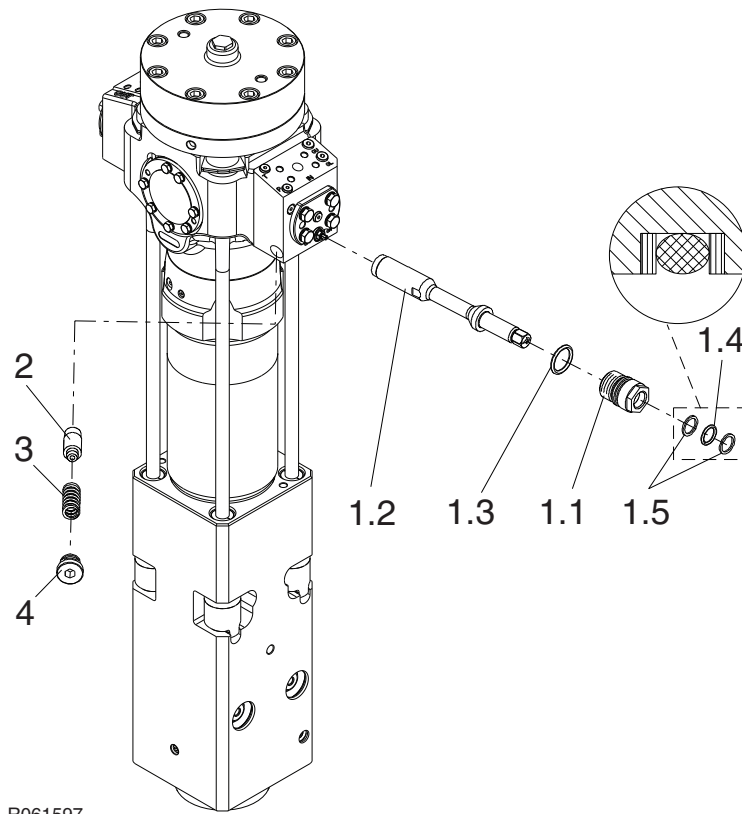
5. PRESSURE CONTROL VALVE



R061595

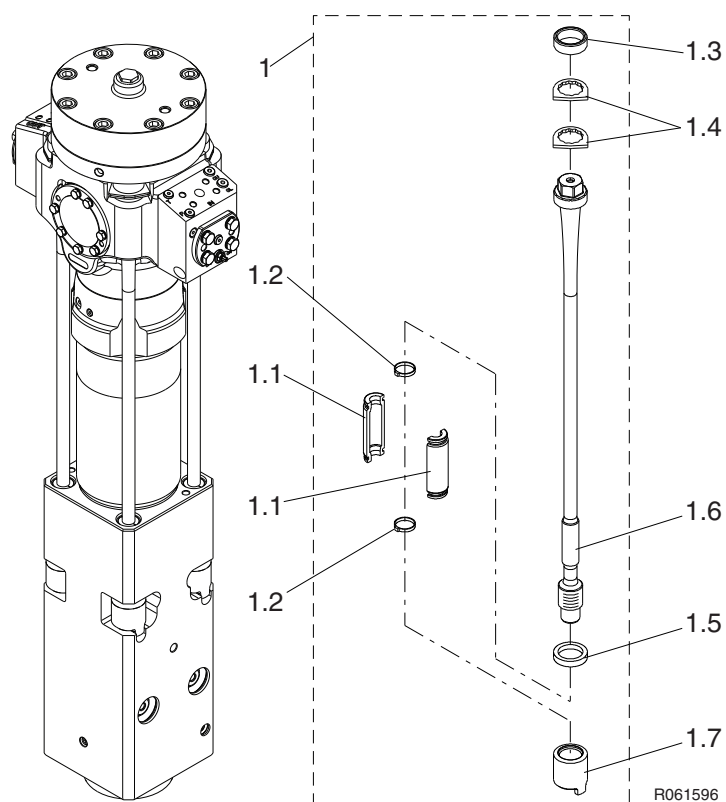
Item	Description	Part no.	Specification	Note	Qty
1	Pressure control valve (incl. parts 1.1-1.15)	163327			1
1.1	Cover	161413			1
1.2	Valve housing	161908			1
1.3	Spool	174139			1
1.4	Guide	400688			1
1.5	Spool	400690			1
1.6	Spring guide	161433			1
1.7	Spring	90104			1
1.8	Shim plate	41794	S=0.5		x
1.9	Shim plate	41793	S=1		x
1.10	Shim plate	174182	S=0.75		x
1.11	Plug	112512			1
1.12	O-ring	90083	D60	*	1
1.13	O-ring	910018	D21	*	1
1.14	Seal	41374		*	1
1.15	Seal	41375		*	1
2	Hex. screw	90517	M16x35-8.8 ISO 4017		4
3	Lock washer	90597	M16 NORD-LOCK		4
	*) Are included in seal set				

6. IDLE SELECTOR



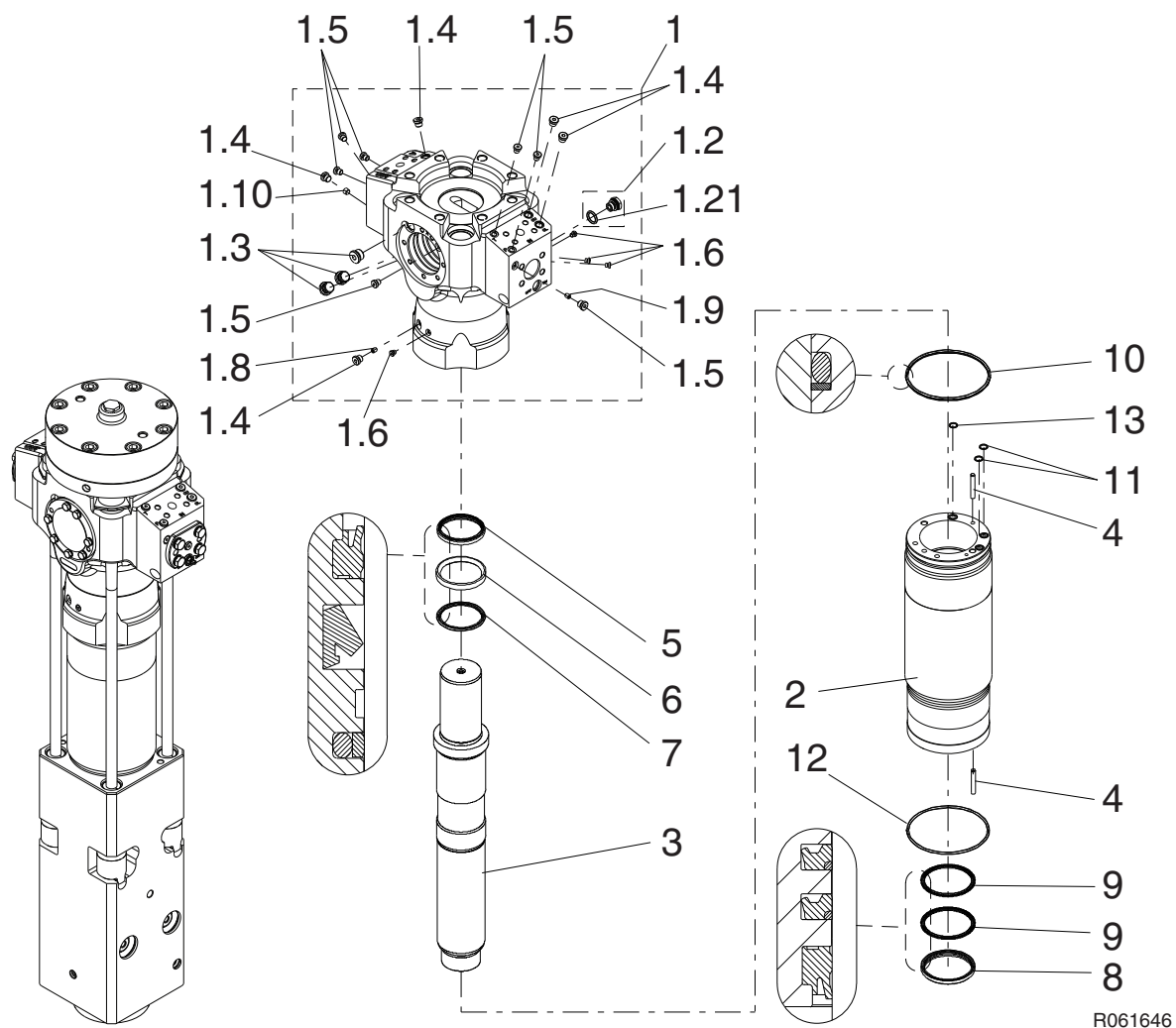
Item	Description	Part no.	Specification	Note	Qty
1	Valve (incl. parts 1.1-1.5)	177269			1
1.1	Cover	175845			1
1.2	Spool	177268			1
1.3	O-ring	901135		*	1
1.4	O-ring	901199		*	1
1.5	Supporting ring	955152		*	2
2	Pin	156730			1
3	Spring	951797	Danly 9-1006-11		1
4	Flange plug	90444	BSP 3/8		1
	*) Are included in seal set				

7. TIE RODS



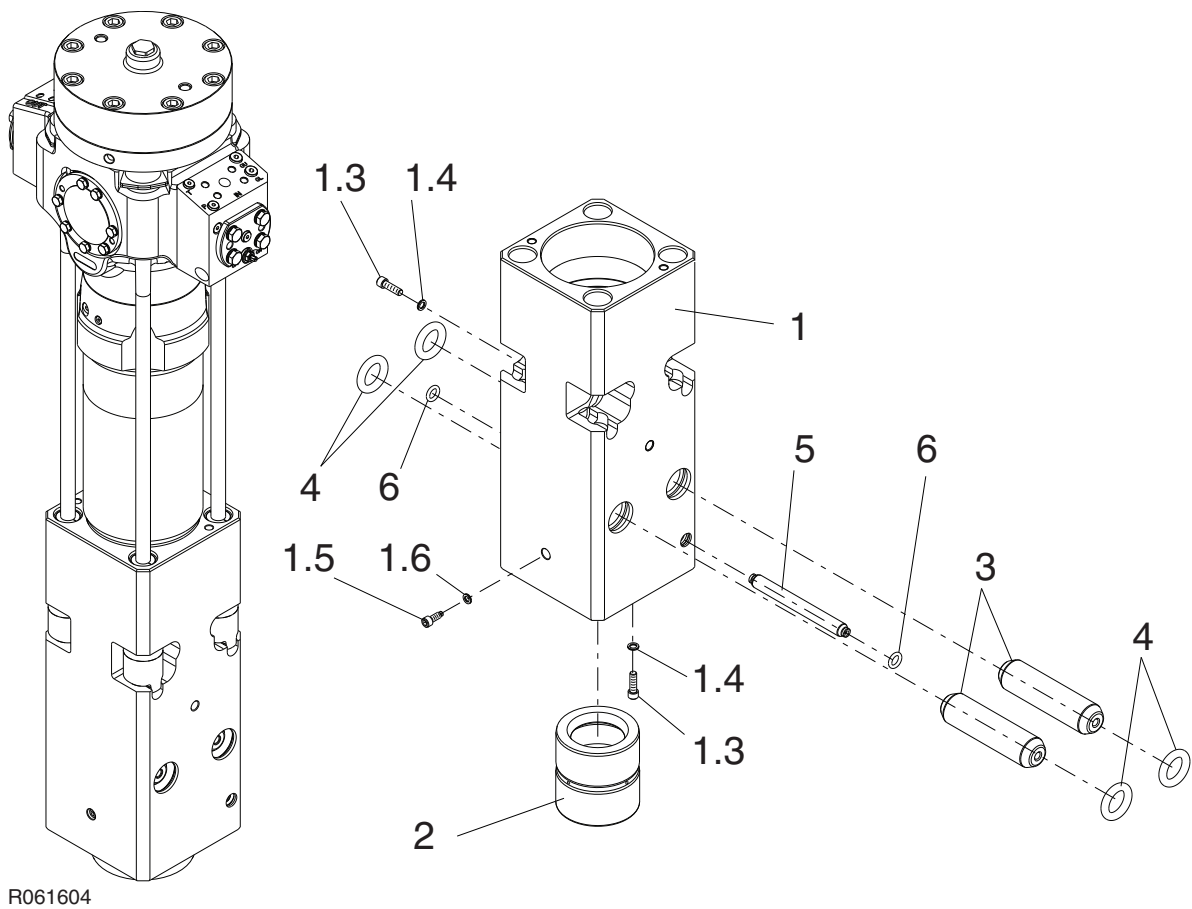
Item	Description	Part no.	Specification	Note	Qty
1	Tie rod set (incl. parts 1.1-1.7)	165573			4
1.1	Vibration dampening element	162162			2
1.2	Cable tie	952009			2
1.3	Rubber ring	400343			1
1.4	Lock plate	400480			2
1.5	Spacer	162137			1
1.6	Tie rod	N/A			1
1.7	Tie rod nut	N/A			1

8. BODY PARTS



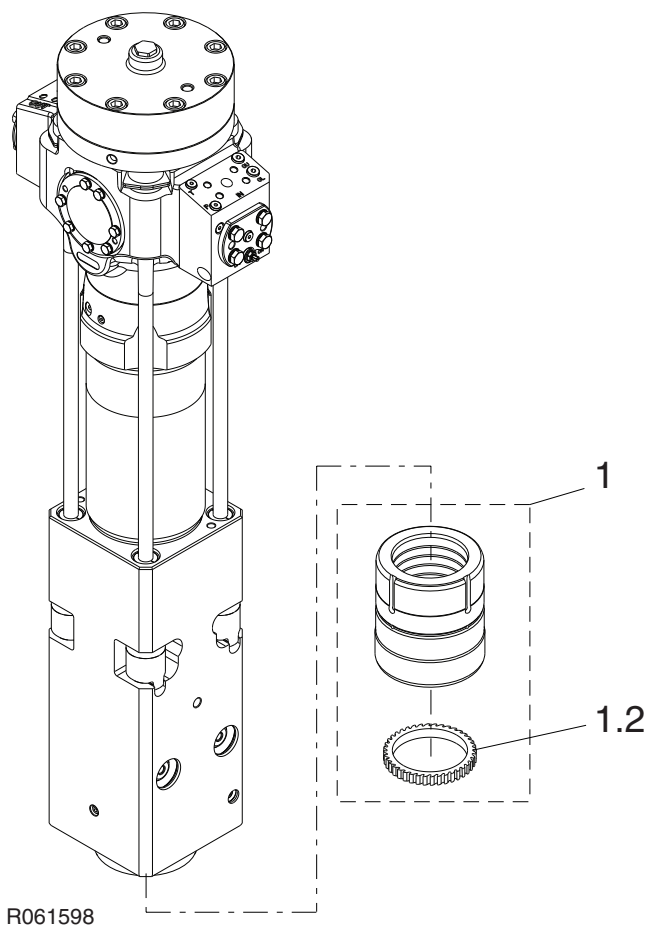
Item	Description	Part no.	Specification	Note	Qty
1	Valve body (incl. parts 1.2-1.10)	176933			1
1.2	Breather (incl. part 1.21)	101200			1
1.21	O-ring	902122	D24	*	1
1.3	Flange plug	90401	R3/4		3
1.4	Flange plug	90444	R3/8		5
1.5	Flange plug	90403	R1/4		7
1.6	Flange plug	93203	R1/8		4
1.8	Nozzle	161922			1
1.9	Nozzle	178395			1
1.10	Taper plug	93125	R1/4 DIN 906		1
2	Cylinder	176953			1
3	Piston	162935			1
4	Parallel pin	901101	10x70 ISO 8734		2
5	Wiper	951544		*	1
6	Seal	950150		*	1
7	Seal	155560		*	1
8	Wiper	951545		*	1
9	Seal	951833		*	2
10	Seal	162170		*	1
11	O-ring	953787		*	2
12	O-ring	94133	D189	*	1
13	O-ring	953790		*	1
	*) Are included in seal set				

9. FRONT HEAD



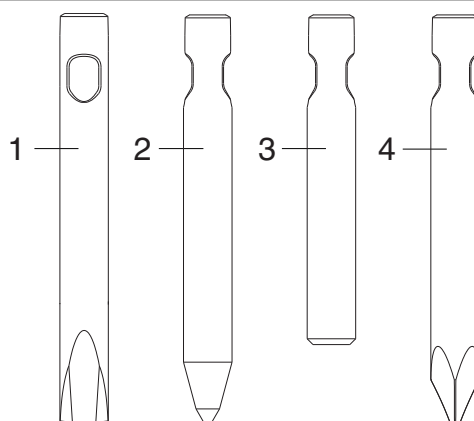
Item	Description	Part no.	Specification	Note	Qty
1	Front head (incl. parts 1.3-1.6)	176968			1
1.3	Hex. socket screw	90522	M12x40-12.9 ISO 4762		2
1.4	Lock washer	91012	M12 NORD-LOCK		2
1.5	Guide	177279	M10		1
1.6	Lock washer	91037	M10 NORD-LOCK		1
2	Upper tool bushing	162136			1
3	Tool retaining pin	177251			2
4	Ring	178036			4
5	Retaining pin	178000			1
6	Rubber ring	157214			2

10. LOWER TOOL BUSHING



Item	Description	Part no.	Specification	Note	Qty
1	Lower tool bushing (incl. part 1.2)	177643			1
1.2	Seal	177642			1

11. TOOL

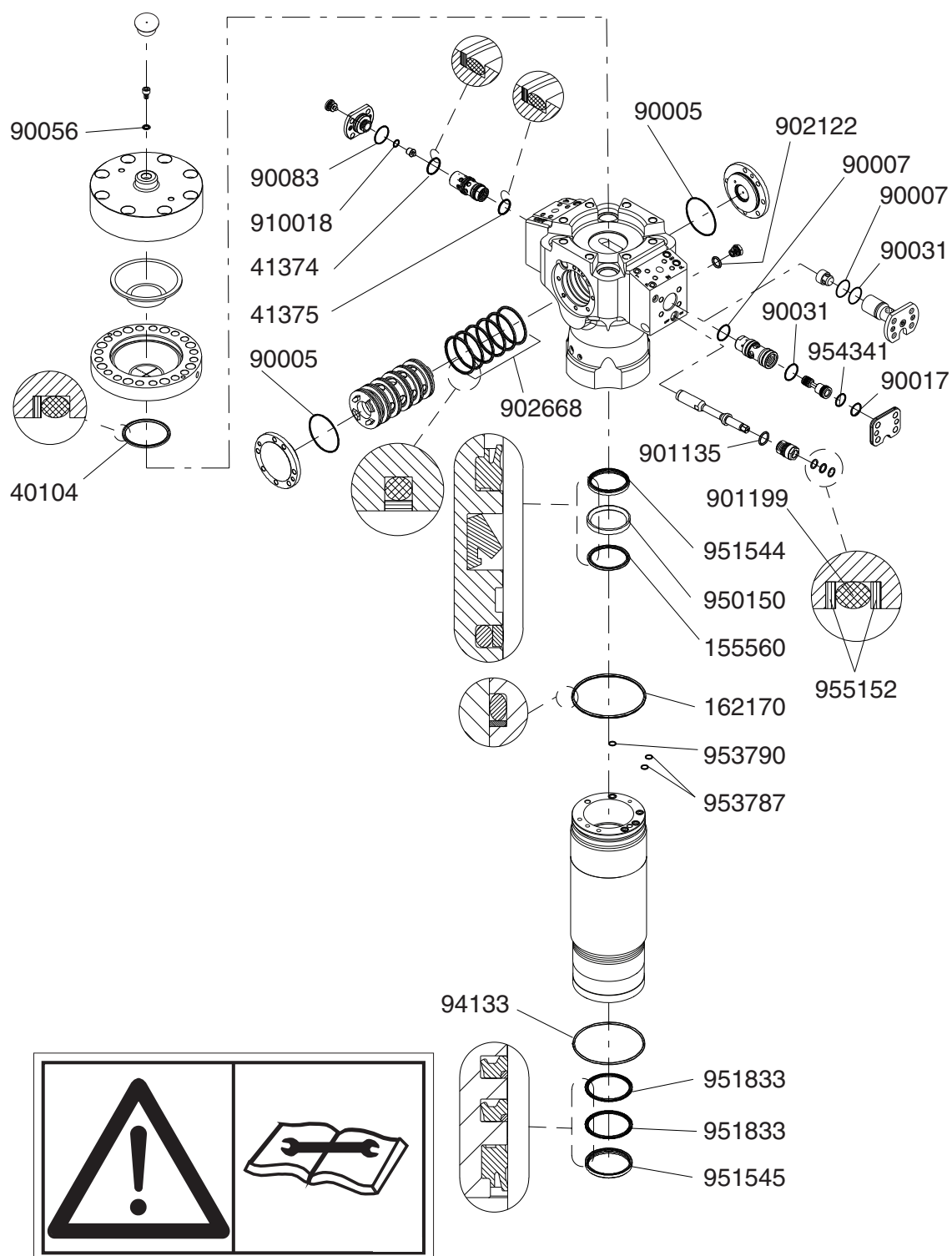


R061870

Item	Description	Part no.	Specification	Note	Qty
1	Chisel	BB65E1	L = 1050 mm, W = 89 kg, D = 125 mm		1
2	Moil point	BB65E3	L = 1050 mm, W = 89 kg, D = 125 mm		1
3	Blunt	BB65E4	L = 850 mm, W = 77 kg, D = 125 mm		1
4	Pyramid	BB65E3K3	L = 1050 mm, W = 89 kg, D = 125 mm		1

12. SEAL SET

Seal set 178100

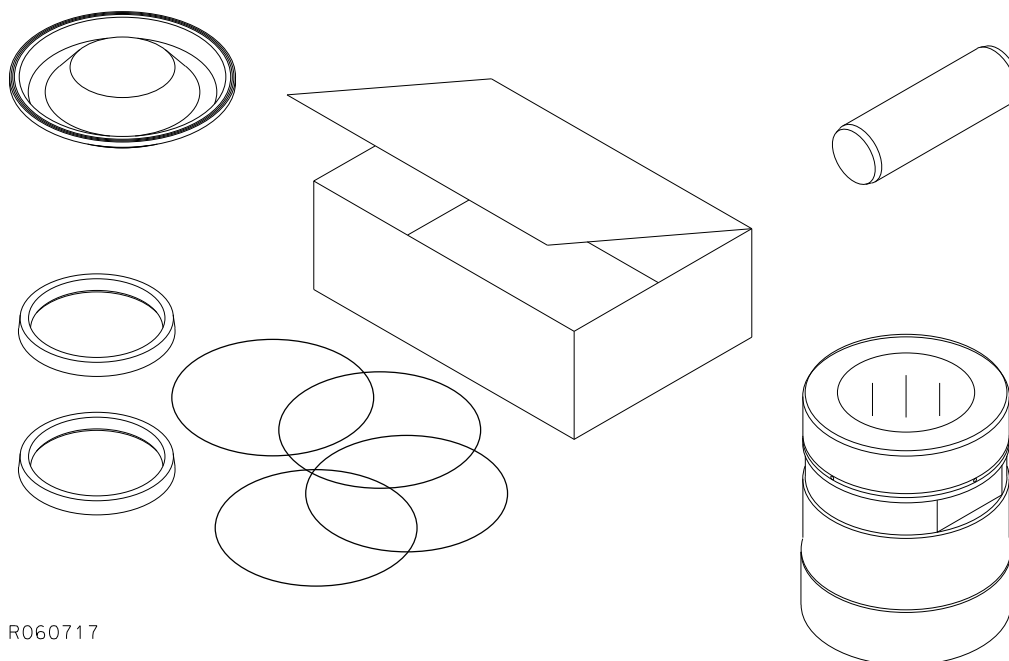


This summary only indicates the position of the seals. It must NOT be used as assembly instruction. Read the service manual. Notice! Assembly must be performed by qualified service personnel only.

R061647

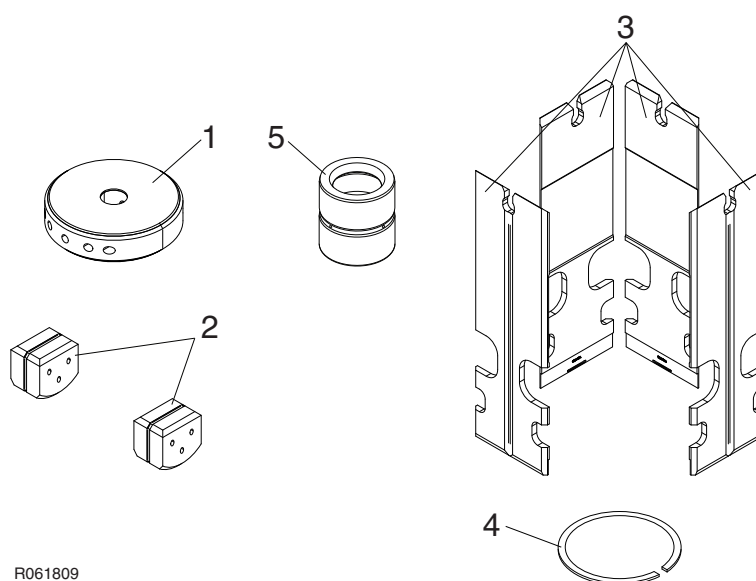
Item	Description	Part no.	Specification	Note	Qty
Kit	Seal set (incl. parts 1-26)	178100			1
1	O-ring	90031	D46		1
2	O-ring	90007	D44		1
3	O-ring	90017	D34		1
4	Seal	40104	D114		1
5	USIT-ring	90056			1
6	O-ring	90083	D60		1
7	O-ring	910018	D21		1
8	Seal	41374			1
9	Seal	41375			1
10	O-ring	90005	D105		2
11	Seal	902668	D110		6
12	O-ring	902122	D24		1
13	Wiper	951544			1
14	Seal	950150			1
15	Seal	155560			1
16	Wiper	951545			1
17	Seal	951833			2
18	Seal	162170			1
19	O-ring	953787			2
20	O-ring	94133	D189		1
22	Seal	954341			1
23	O-ring	901135			1
24	O-ring	901199			1
25	Supporting ring	955152			2
26	O-ring	953790			1
	The seals for greasing device are not included in this seal set. They are included in the service kit for greasing device.				

13. SERVICE KIT 1



Item	Description	Part no.	Specification	Note	Qty
Kit	Service kit (incl. parts 1 - 4)	K12166E			1
1	Membrane	30211			1
2	Tool retaining pin	177251			2
3	Lower tool bushing	177643			1
4	Seal set	178100			1

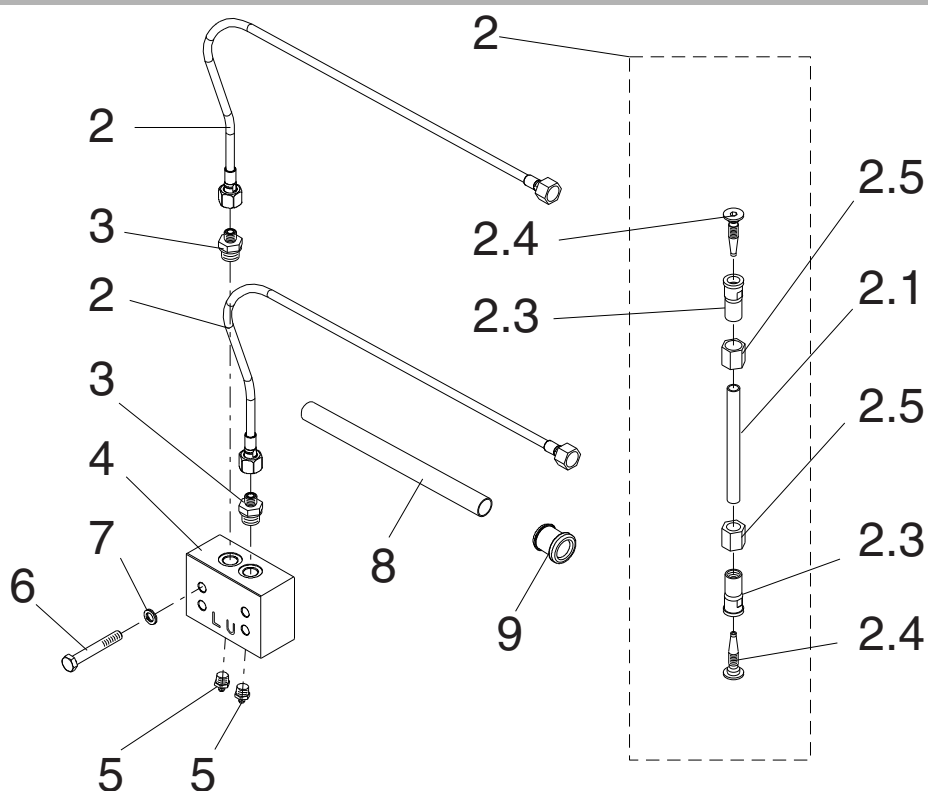
14. SERVICE KIT 2A



R061809

Item	Description	Part no.	Specification	Note	Qty
Kit	Service kit (incl. parts 1 - 5)	183845			1
1	Buffer	301000			1
2	Pad	301001			2
3	Wear plate	182418			4
4	Spring ring	182419			1
5	Upper tool bushing	162136			1

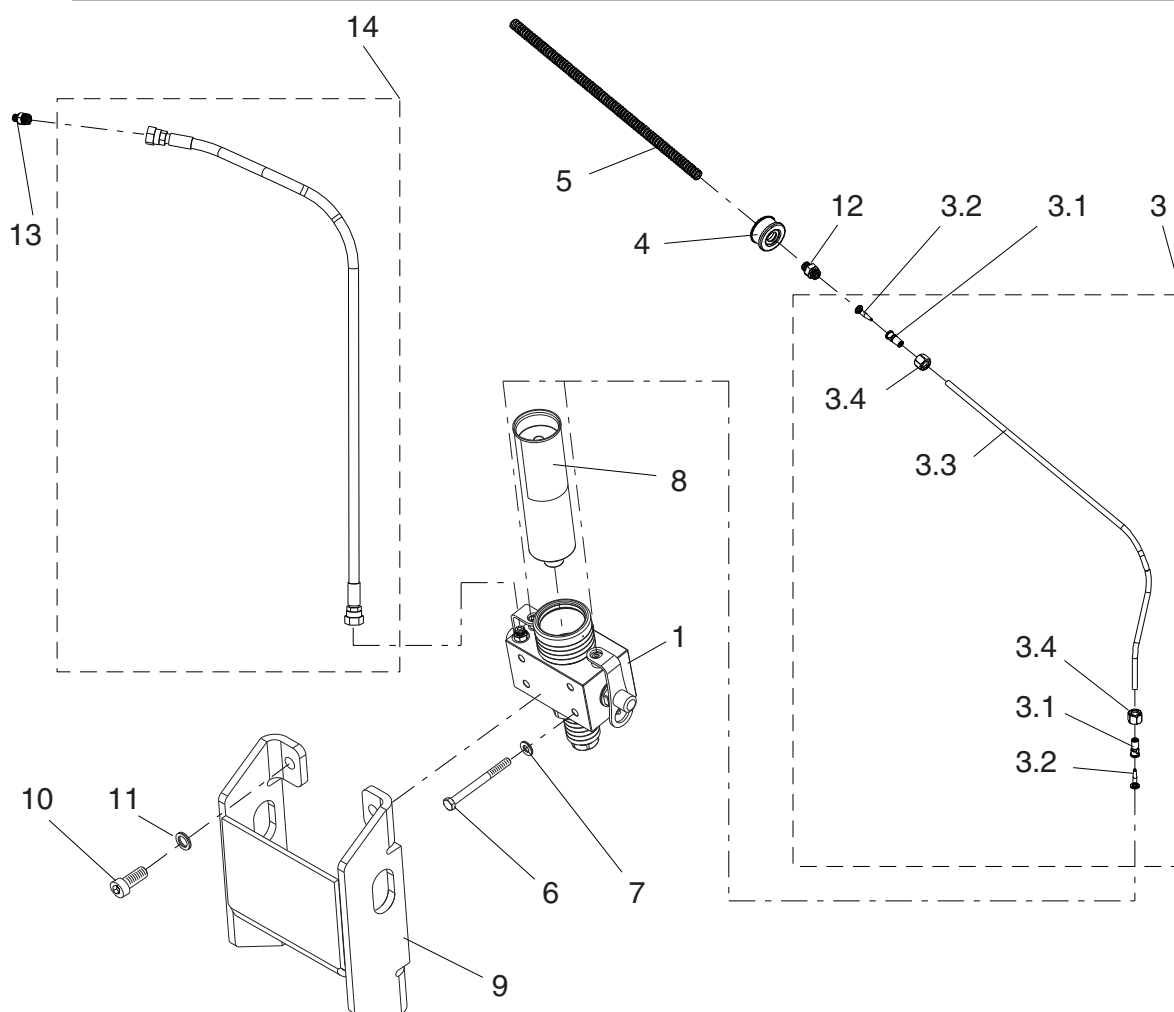
15. GREASING BLOCK FOR MANUAL GREASING



R061600

Item	Description	Part no.	Specification	Note	Qty
Kit	Greasing block for manual greasing (incl. parts 3-7)	168833			1
2	Hose assembly (incl. parts 2.1-2.5)	168872			2
2.1	Hose	951632			1
2.3	Sleeve	153035			2
2.4	Insert	153036			2
2.5	Nut	951296			2
3	Connector	951294	BSPP 1/4		2
4	Body	168824			1
5	Grease nipple	90200	R1/4		2
6	Hex. screw	901542	M10x70-8.8 ISO 4014		4
7	Lock washer	953503	M10 NL10sp NORD-LOCK		4
8	Shield	952093			1
9	Rubber bushing	158147			1

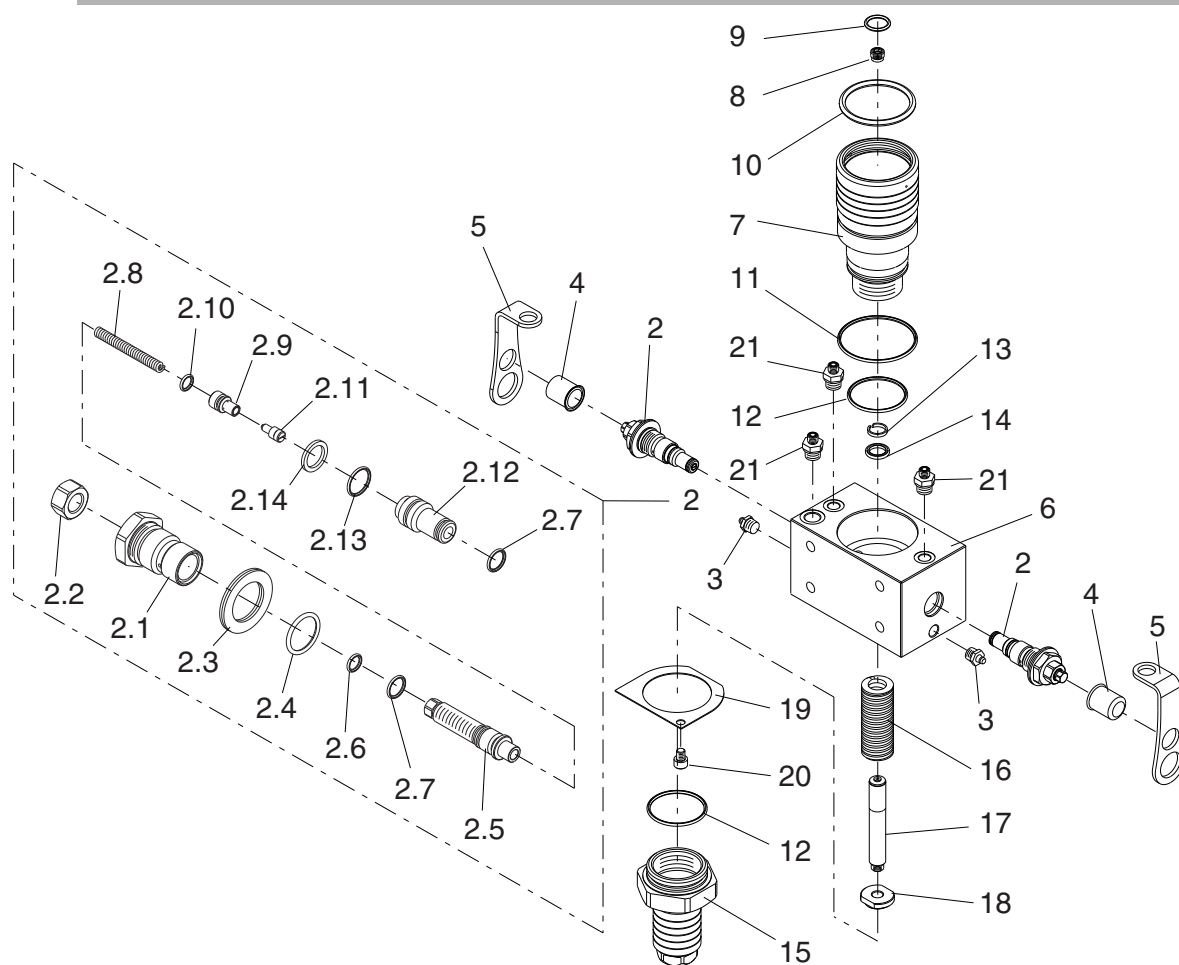
16. GREASING DEVICE KIT



R061601

Item	Description	Part no.	Specification	Note	Qty
kit	Greasing device retrofit kit (incl. parts 1-14)	K60066E			1
1	Greasing device RG542	953345			1
3	Hose assembly (incl. parts 3.1-3.4)	176785			2
3.1	Sleeve	153035			2
3.2	Insert	153036			2
3.3	Hose	951632			1
3.4	Nut	951296			2
4	Rubber bushing	158147			1
5	Shield	952093			1
6	Hex. screw	953794	M10x110-8.8 ISO 4014		4
7	Lock washer	953503	M10 NL10sp NORD-LOCK		4
8	Grease cartridge	951370	Special tool grease, Greasing device cartridge. Greasing device cartridges are also sold in boxes of 24.		1
9	Shield	168032			1
10	Hex. socket screw	902895	M16x35-8.8 ISO 4762		4
11	Lock washer	90597	M16 NORD-LOCK		4
12	Connector	951295	BSPP 3/8		2
13	Connector	951294	BSPP 1/4		1
14	Hose assembly	955155			1

17. GREASING DEVICE

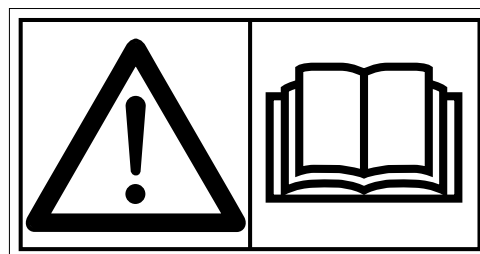
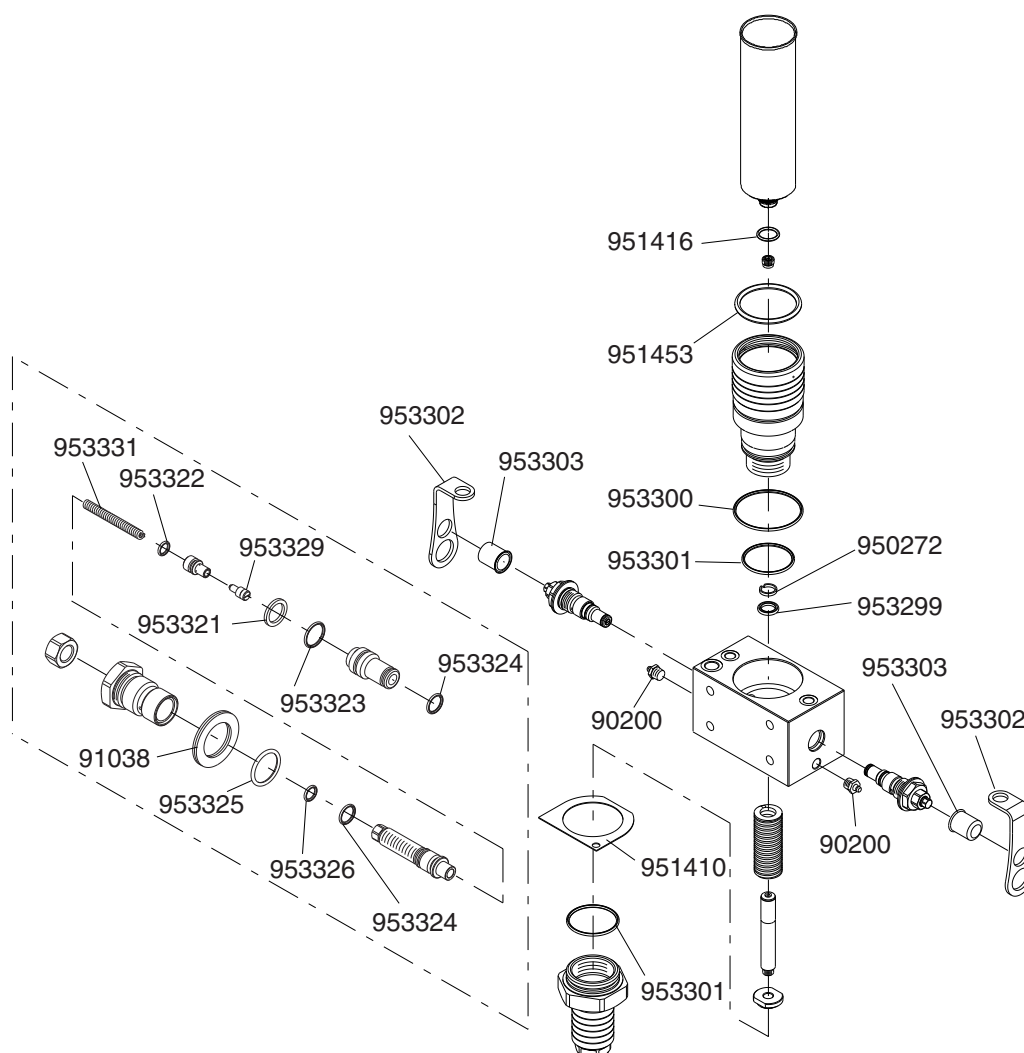


R061602

Item	Description	Part no.	Specification	Note	Qty
1	Greasing device RG542 (incl. parts 2-21)	953345			1
2	Doser (incl. parts 2.1-2.14)	173573			2
2.1	Plug	173574			1
2.2	Nut	953330	M12x1 DIN 934		1
2.3	Lock washer	91038	M24 NORD-LOCK	*	2
2.4	O-ring	953325	D21	*	2
2.5	Adjusting screw	953317			1
2.6	O-ring	953326	D8	*	2
2.7	O-ring	953324	D11	*	4
2.8	Spring	953331		*	2
2.9	Piston	173576			1
2.10	O-ring	953322	D7	*	2
2.11	Piston	953329		*	2
2.12	Body	173575			1
2.13	O-ring	953323	D15	*	2
2.14	Shim plate	953321		*	2
3	Grease nipple	90200	BSP 1/4	*	2
4	Plug	953303		*	2
5	Locking plate	953302		*	2
6	Body	953335			1
7	Cartridge holder	953334			1
8	Check valve	951767			1
9	O-ring	951416	D19	*	1
10	O-ring	951453	D62	*	1
11	O-ring	953300	D71	*	1
12	O-ring	953301	D52	*	2
13	Guide ring	950272		*	1
14	Seal	953299		*	1
15	Spring housing	953308			1
16	Spring	950257			1
17	Piston	953307			1
18	Nut	953306			1
19	Lock plate	951410		*	1
20	Hex. socket screw	951421	M8x10-8.8 ISO 4762		1
21	Connector	951294	BSPP 1/4		3
kit	Seal set for greasing device	953385			1
	*) Are included in seal set for greasing device				

18. SERVICE KIT FOR GREASING DEVICE RG540 SERIES

Service kit 953385

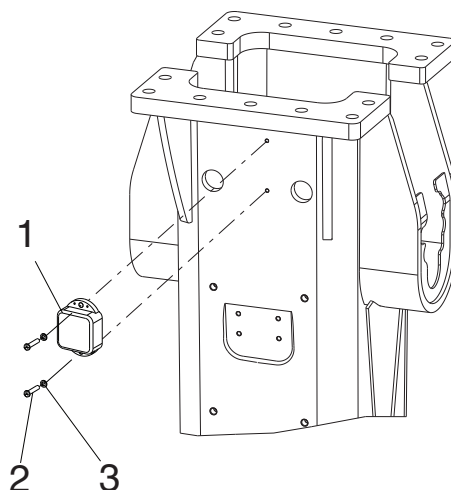


This summary only indicates the position of the seals. It must NOT be used as assembly instruction. Read the manual.

R061096

Item	Description	Part no.	Specification	Note	Qty
Kit	Service kit for greasing device (incl. parts 1-19)	953385			1
1	Lock plate	951410		a	1
2	Plug	953303		a	2
3	Guide ring	950272		a	1
4	Seal	953299		a	1
5	O-ring	953300	D71	a	1
6	O-ring	951453	D62	a	1
7	O-ring	953301	D52	a	2
8	O-ring	951416	D19	a	1
9	O-ring	953326	D8	a	2
10	O-ring	953325	D21	a	2
11	O-ring	953324	D11	a	4
12	O-ring	953323	D15	a	2
13	O-ring	953322	D7	a	2
14	Shim plate	953321		a	2
15	Spring	953331		a	2
16	Piston	953329		a	2
17	Lock washer	91038	M24 NORD-LOCK	a	2
18	Grease nipple	90200	R1/4		2
19	Locking plate	953302			2
	Service kit for greasing device is not included in the hammers seal set.				
	^a Not sold separately				

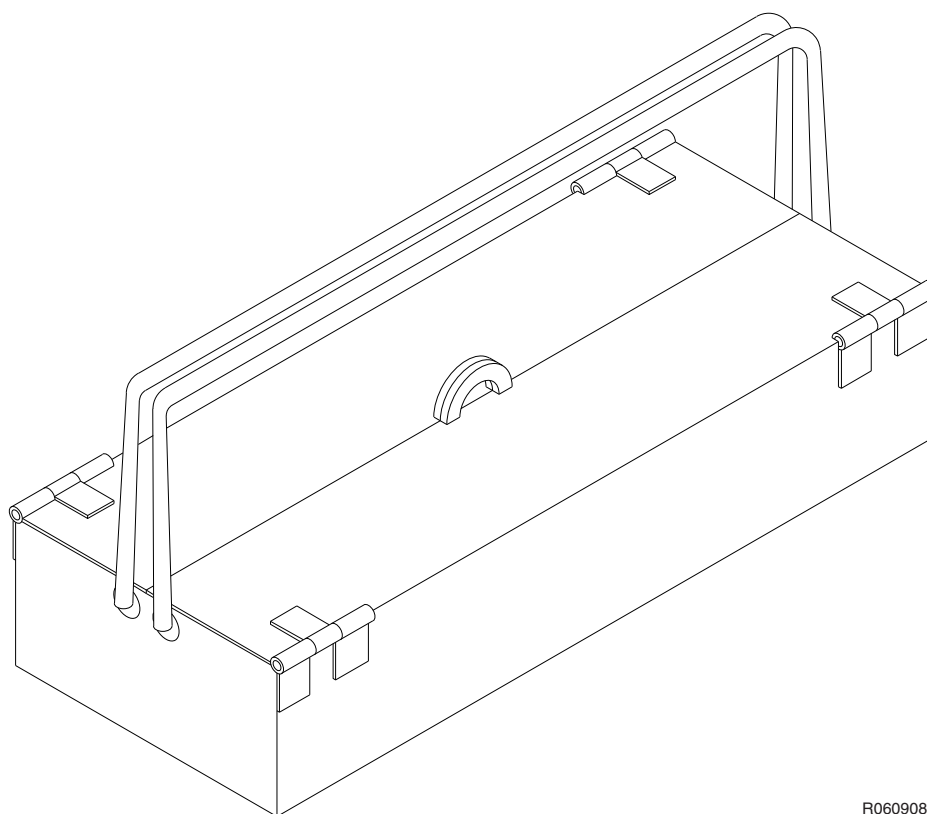
19. RD3, SURFACE MOUNTED



R061448

Item	Description	Part no.	Specification	Note	Qty
Kit	RD3 kit (incl. parts 1-3)	RD3-FACE			1
1	RD3 remote monitoring device	177284	Surface mounted	a	1
2	One-way-drive screw	955168	M8x30		2
3	Washer	903209	8-140 HV ISO 7089		2
	^a Not sold separately				

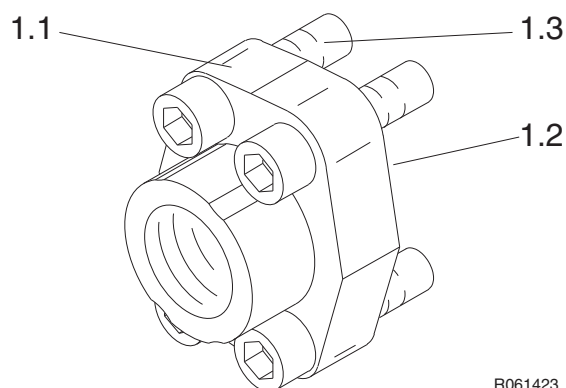
20. TOOL BOX R1



R060908

Item	Description	Part no.	Specification	Note	Qty
Kit	Tool box R1 (incl. parts 1-14)	173747			1
1	Tool box	N/A			1
2	Grease gun	90202			1
3	Tool grease	902045			1
4	Grease cartridge	951370			1
5	Puller	150020			1
6	Combination spanner	N/A	12		1
7	Screwdriver	N/A	6x150		1
8	Flange plug	90444	R3/8		1
9	Flange plug	90403	R1/4		2
10	Grease nipple	90200	R1/4		1
11	Grease nipple	953767	R3/8		2
12	Safety glasses	N/A			1
13	Assembling screw	954194	M12x150-8.8 ISO 8677		1
14	Combination spanner	N/A	8		1

21. COUPLING SET



R061423

Item	Description	Part no.	Specification	Note	Qty
1	Coupling set (incl. parts 1.1-1.3)	400587			1
1.1	Flange	90531	SAE 1 1/4 6000 psi - BSP 1 1/4 FEMALE		2
1.2	O-ring	90009			2
1.3	Hexagon socket screw	90593	M14x45-8.8 ISO 4762		8



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