



HYDRAULIC HAMMER

RAMMER 2577 PRO

Serial No.

2577A1333-UP

TABLE OF CONTENTS

1. Housing unit	4
2. Accumulator	6
3. Main valve	7
4. Ramvalve	8
5. Pressure control valve	9
6. Tie rods.	11
7. Body parts.	12
8. Front head	14
9. Lower tool bushing	15
10. Tool	16
11. Seal set	17
12. Service kit 1	19
13. Service kit 2	20
14. Ramdata II service indicator	21
15. Tool box PRO	22
16. Tool box TS1	23
17. Coupling set	24
18. Coupling set	25
19. Coupling set	26
20. Coupling set	27

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

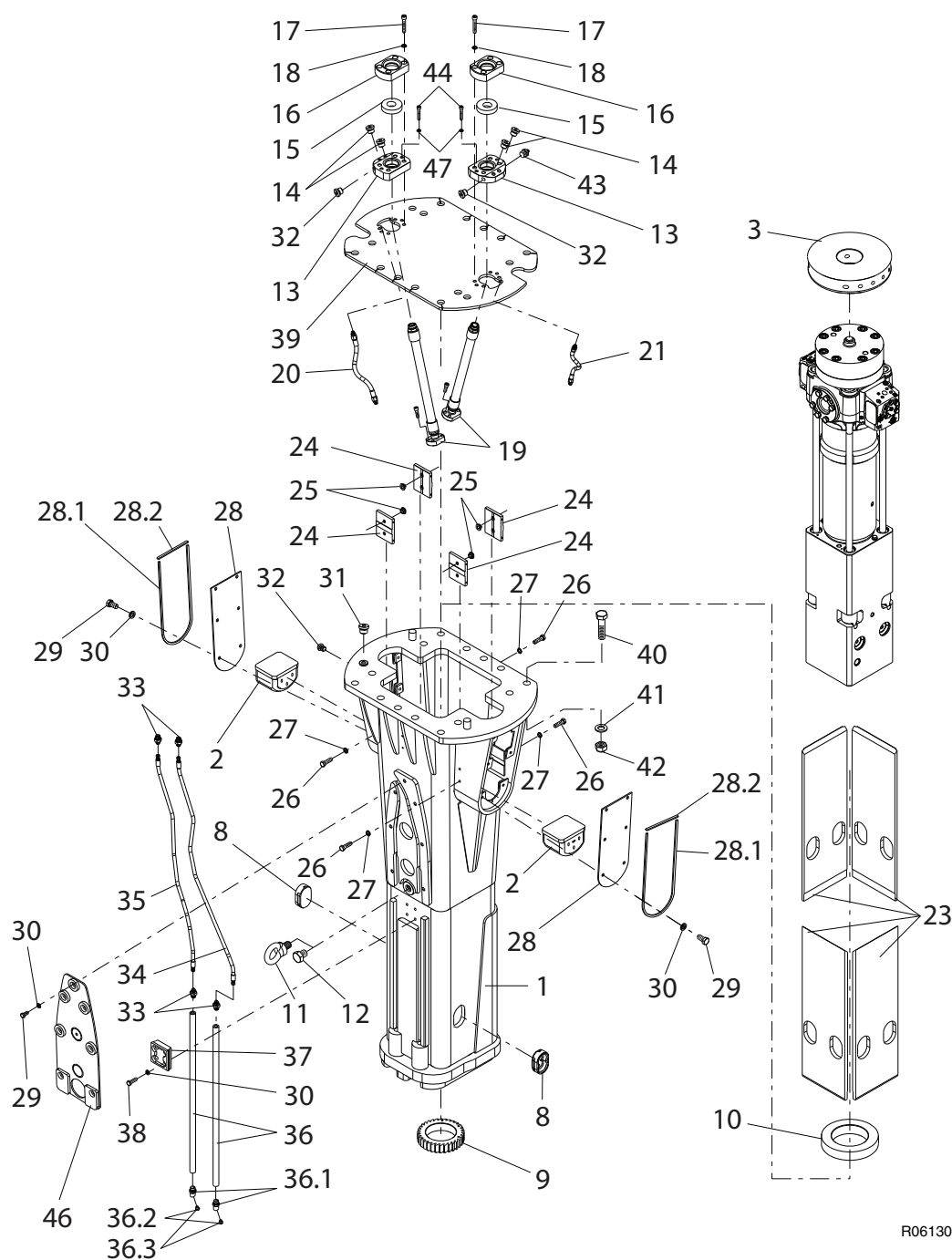
Quick spare part deliveries are secured by exact orders.

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

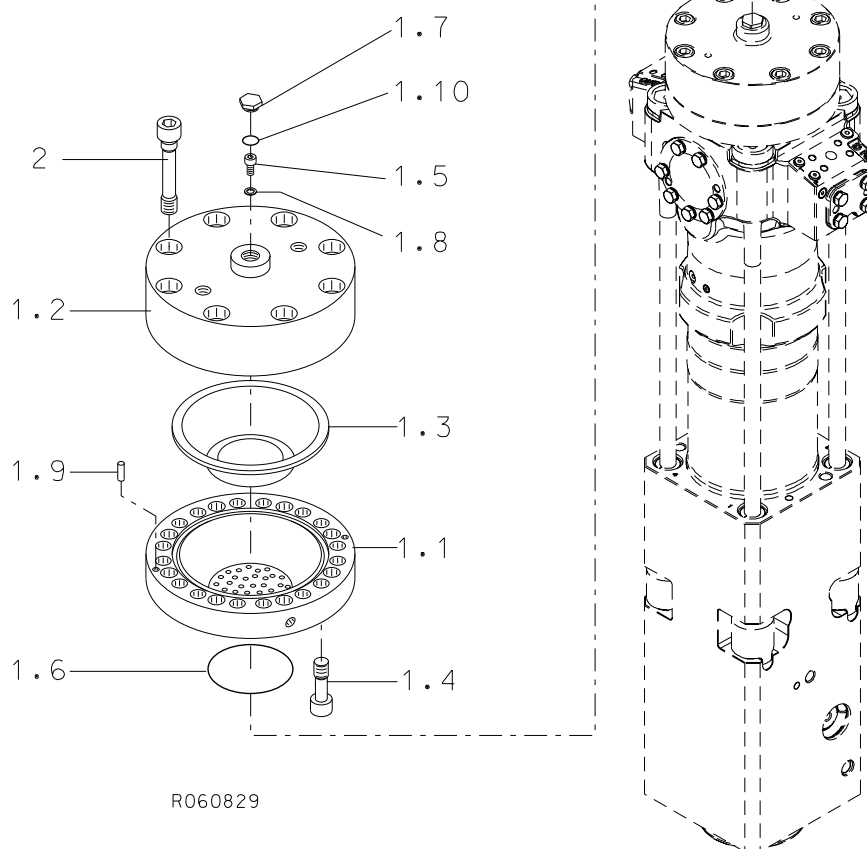


R061300

Item	Description	Part no.	Specification	Note	Qty
1	Housing	173062			1
2	Pad	300954			2
3	Buffer	172696			1
8	Plug	161785			2
9	Seal	173150			1
10	Seal	173149			1
11	Lifting eye	90705	M30 DIN 580		1
12	Hex. screw	900026	M30x40-8.8 ISO 4017		1

Item	Description	Part no.	Specification	Note	Qty
13	Flange	173275			2
14	Flange plug	90444	BSP 3/8		4
15	Seal	173510			2
16	Cover	173473			2
17	Hex. socket screw	900040	M16x80-8.8 ISO 4762		8
18	Lock washer	90597	M16 NORD-LOCK		8
19	Hose assembly	952389			2
20	Hose assembly	954539	Air hose		1
21	Hose assembly	954537	Grease hoses		1
23	Wear plate	173138			4
24	Guide plate	173074			4
25	Bushing	173109			8
26	Hex. screw	91031	M10x40-8.8 ISO 4017		8
27	Lock washer	91037	M10 NORD-LOCK		8
28	Cover (incl. parts 28.1-28.2)	173079			2
28.1	Seal	954477			1
28.2	Seal	954476			1
29	Hex. screw	90514	M16x30-8.8 ISO 4017		19
30	Lock washer	954382	NLX16 NORD-LOCK		23
31	Flange plug	90424	BSP 1/2		1
32	Flange plug	90403	BSP 1/4		2
33	Connector	951204			4
34	Hose assembly	173419			1
35	Hose assembly	173420			1
36	Pipe (incl. parts 36.1-36.2)	173179			2
36.1	Adapter	170210			1
36.2	Nozzle	173241	standard		1
36.3	Nozzle	173289	optional		1
37	Fixing plate	173202			1
38	Hex. screw	900017	M16x40-10.9 ISO 4017		4
39	Top plate	173172			1
40	Hex. screw	954572	M24x140-12.9 ISO 4014		14
41	Washer	90511	24 ISO 7416		14
42	Lock nut	90507	M24-8 ISO 10511		14
43	Grease nipple	90200			1
44	Hex. socket screw	901902	M12x45-8.8 ISO 4762		4
46	Cover	173136			1
47	Lock washer	91012	M12 NORD-LOCK		4
200	Label set (incl. part 200.1)	173580			1
200.1	Safety label set	169400	English		1

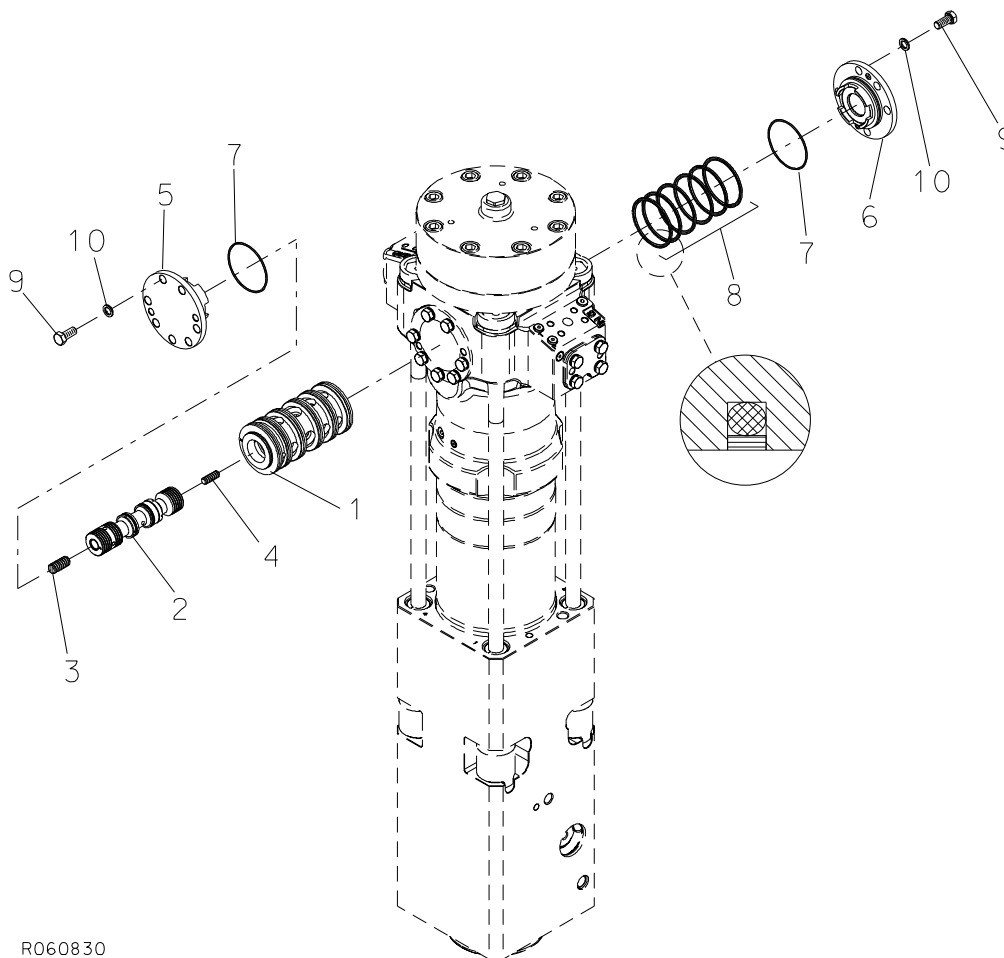
2. ACCUMULATOR



R060829

Item	Description	Part no.	Specification	Note	Qty
1	Accumulator (incl. parts 1.1-1.10)	163209			1
1.1	Accumulator bottom	100672			1
1.2	Accumulator cover	163210			1
1.3	Membrane	30211			1
1.4	Accumulator screw	40416			16
1.5	Filling plug	40368			1
1.6	Seal	40104	D114	*	1
1.7	Shield plug	154015			1
1.8	Usit-ring	90056	8-13.9-1	*	1
1.9	Parallel pin	90304	10m6x24 DIN 6325		2
1.10	O-ring	910006	D23	*	1
2	Accumulator screw	951208			8
	*) Are included in seal set				

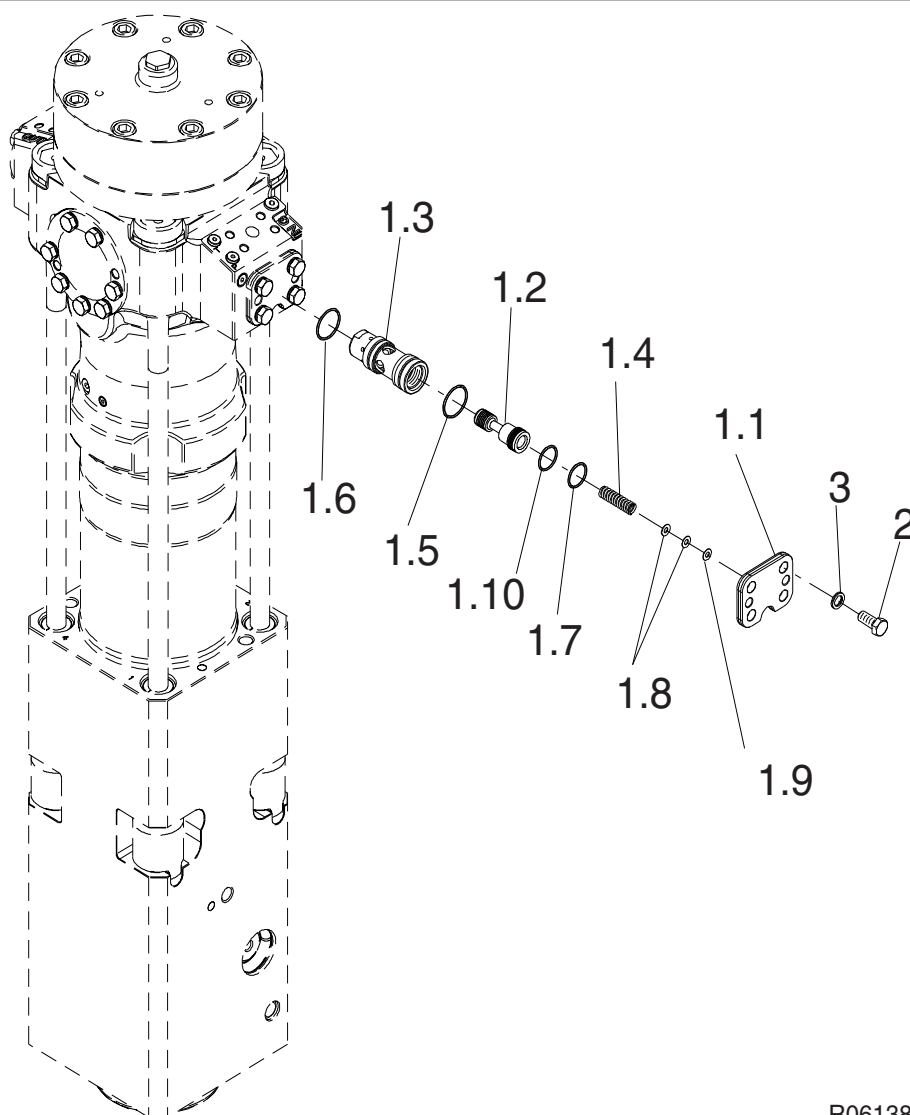
3. MAIN VALVE



R060830

Item	Description	Part no.	Specification	Note	Qty
1	Main valve bushing	156302			1
2	Main spool	161436			1
3	Spool	40111			1
4	Spool	400325			1
5	Cover	161280			1
6	Cover	30776			1
7	O-ring	90005	D105	*	2
8	Seal	902668	D110	*	6
9	Hex. screw	90517	M16x35-8.8 ISO 4017		13
10	Lock washer	90597	M16 NORD-LOCK		13
	*) Are included in seal set				

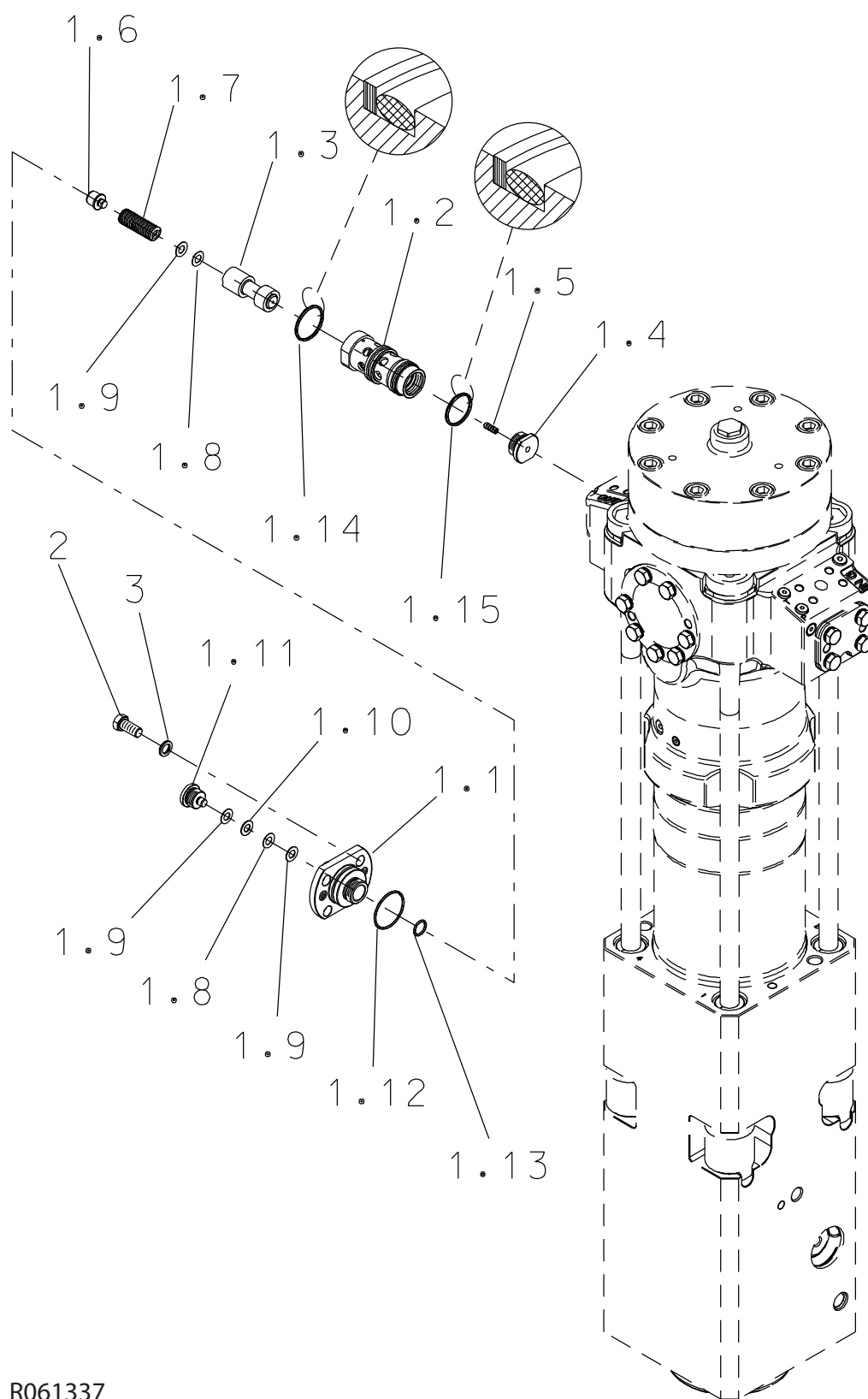
4. RAMVALVE



R061386

Item	Description	Part no.	Specification	Note	Qty
1	Ramvalve (incl. parts 1.1-1.10)	158955			1
1.1	Cover	158952			1
1.2	Spool	174665			1
1.3	Valve housing	158953			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				

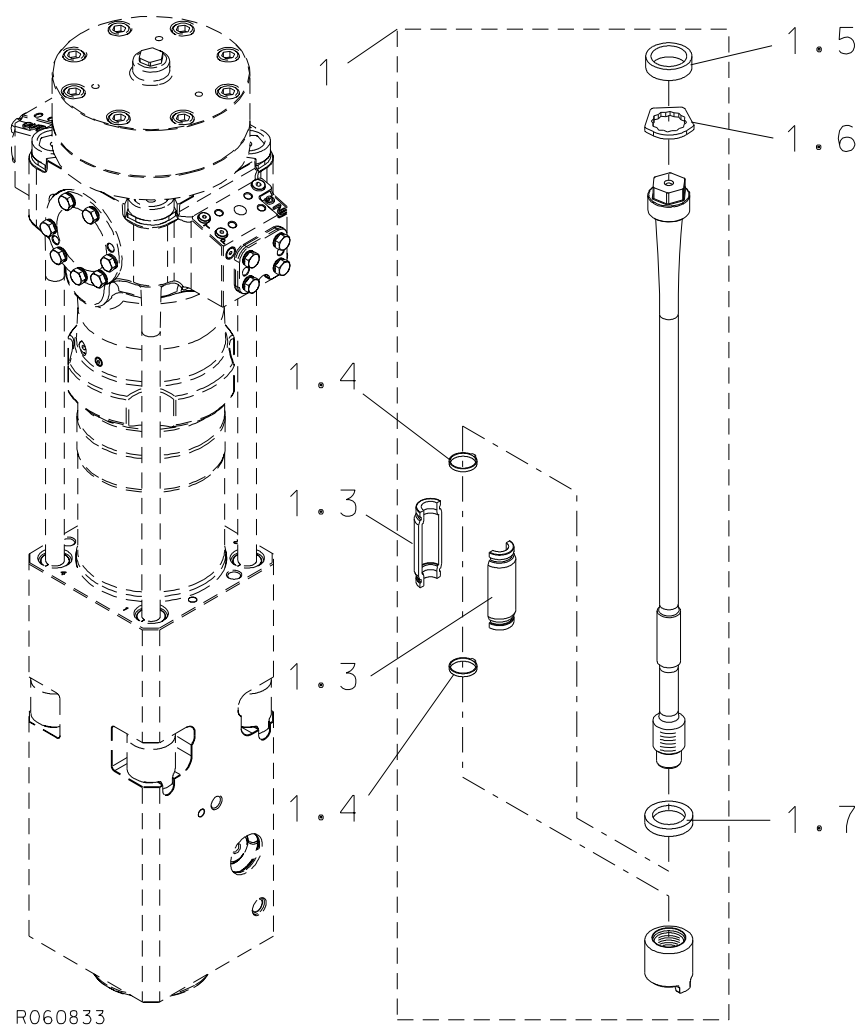
5. PRESSURE CONTROL VALVE



R061337

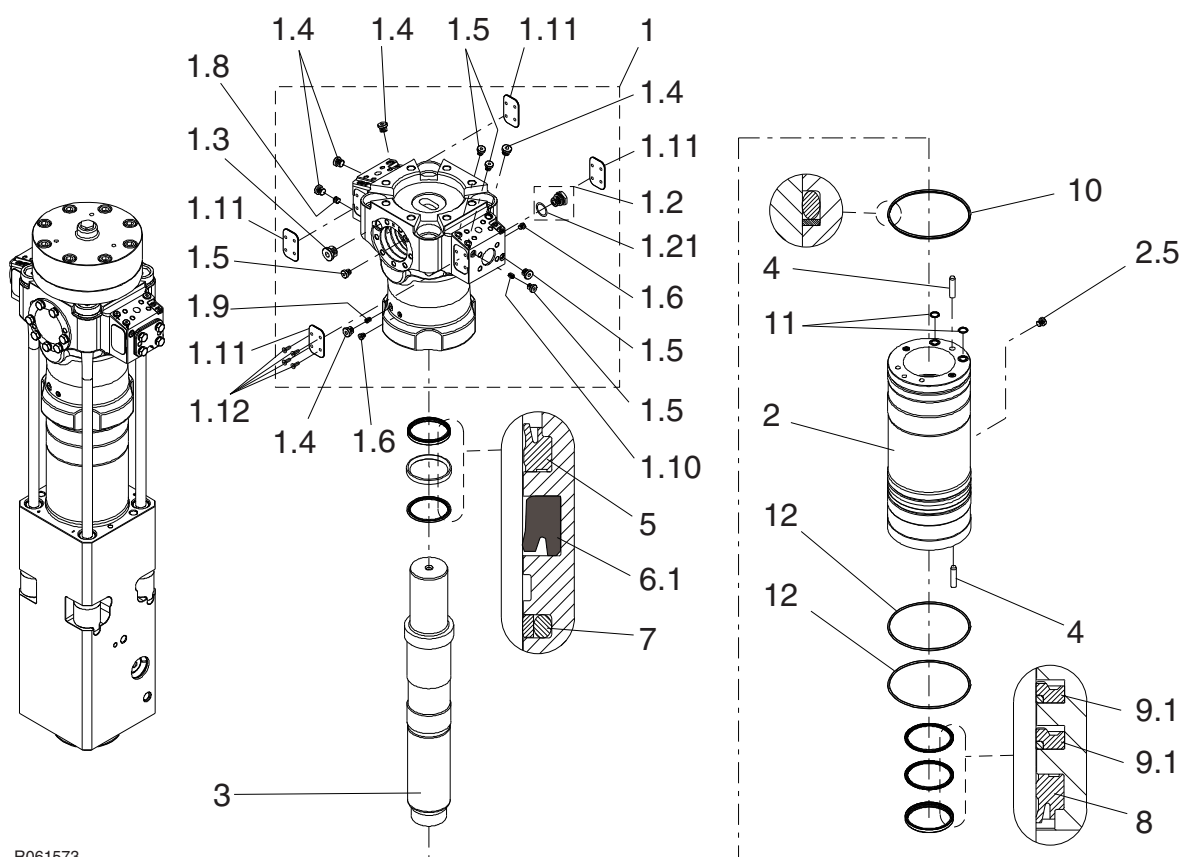
Item	Description	Part no.	Specification	Note	Qty
1	Pressure control valve (incl. parts 1.1-1.15)	161421			1
1.1	Cover	161413			1
1.2	Valve housing	161908			1
1.3	Spool	161909			1
1.4	Guide	400688			1
1.5	Spool	400690			1
1.6	Spring guide	161433			1
1.7	Spring	90104			1
1.8	Shim plate	41794	S=0.5		x
1.9	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	D55	*	1
1.15	Seal	41375	D50	*	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. TIE RODS



Item	Description	Part no.	Specification	Note	Qty
1	Tie rod set (incl. parts 1.3-1.7)	162977			4
1.3	Vibration dampening element	160995			2
1.4	Cable tie	952009			2
1.5	Rubber ring	400661			1
1.6	Lock plate	400659			1
1.7	Spacer	160968			1

7. BODY PARTS

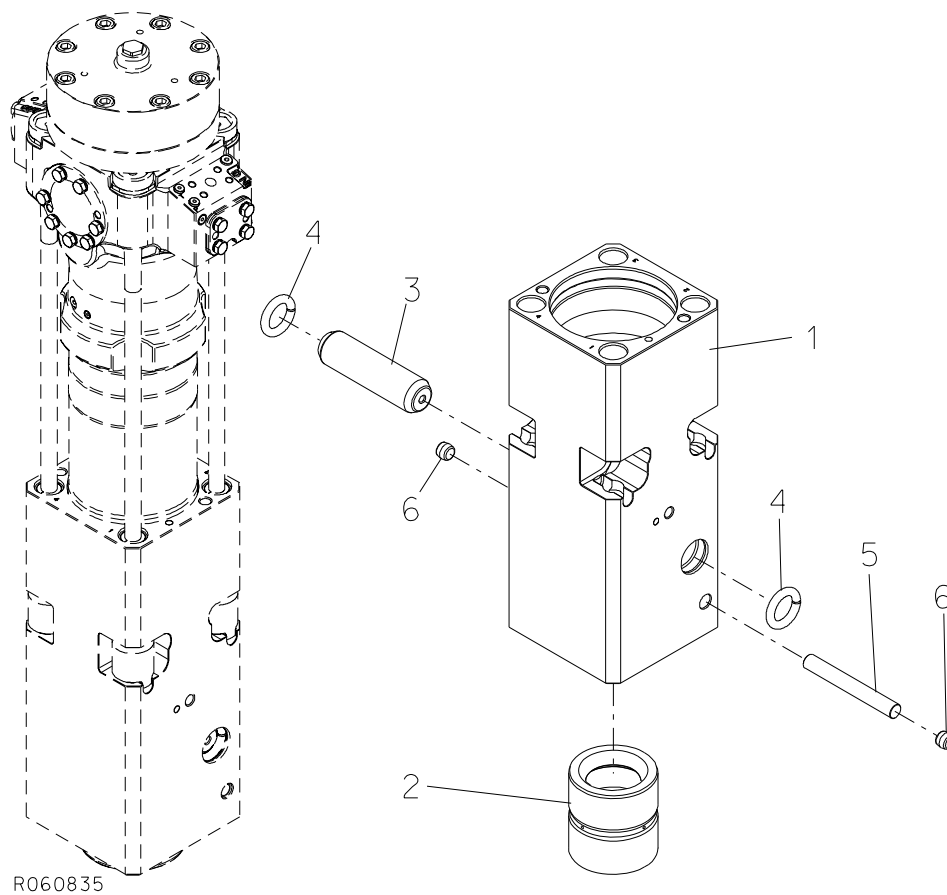


R061573

Item	Description	Part no.	Specification	Note	Qty
1	Valve body (incl. parts 1.2-1.12)	173070			1
1.2	Breather (incl. part 1.21)	101200			1
1.21	O-ring	902122	D24	*	1
1.3	Flange plug	90401	R3/4		1
1.4	Flange plug	90444	R3/8		5
1.5	Flange plug	90403	R1/4		5
1.6	Flange plug	93203	R1/8		2
1.8	Taper plug	93125	DIN 906-R1/4		1
1.9	Nozzle	161922			1
1.10	Nozzle	161465			1
1.11	Shoulder plate	173071			4
1.12	Hex. socket screw	955186	M6x12-10.9 DIN 7991		16
2	Cylinder (incl. parts 2.1-2.5)	165251			1
2.5	Flange plug	90403	R1/4, idle stroke prevention		1
3	Piston	173180			1
4	Parallel pin	904017	16m6x70 ISO 8734		2
5	Wiper	952635		*	1
6.1	Seal	955108		*	1
7	Seal	161601		*	1
8	Wiper	952636		*	1
9.1	Seal	952579		*	2
10	Seal	400663	D230	*	1

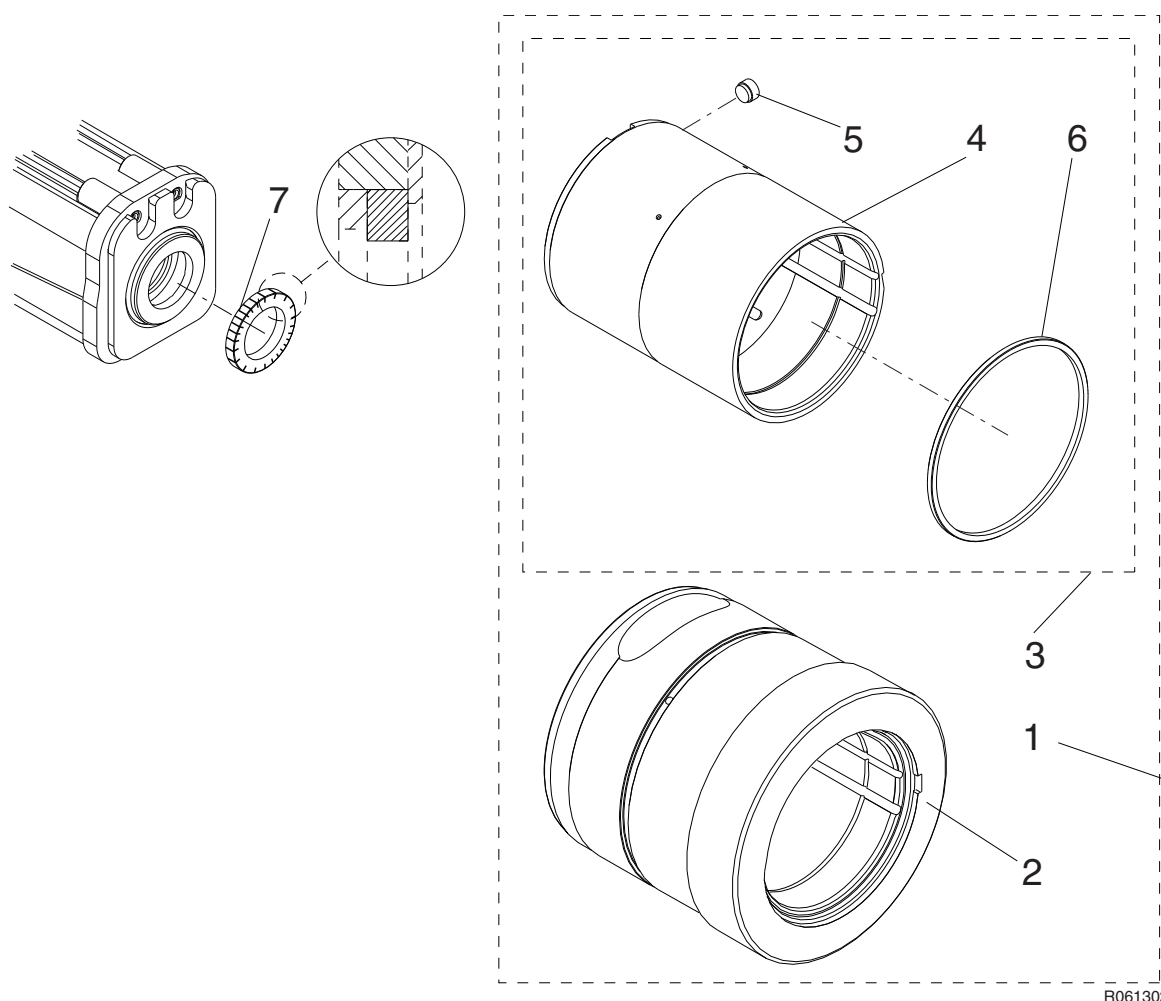
Item	Description	Part no.	Specification	Note	Qty
11	O-ring	953941	D21	*	2
12	O-ring	90076	D229	*	2
	*) Are included in seal set				

8. FRONT HEAD



Item	Description	Part no.	Specification	Note	Qty
1	Front head	162491			1
2	Upper tool bushing	160940			1
3	Tool retaining pin	160942			1
4	Ring	153236			2
5	Retaining pin	400655			1
6	Rubber plug	104530			2
	*) Are included in seal set				

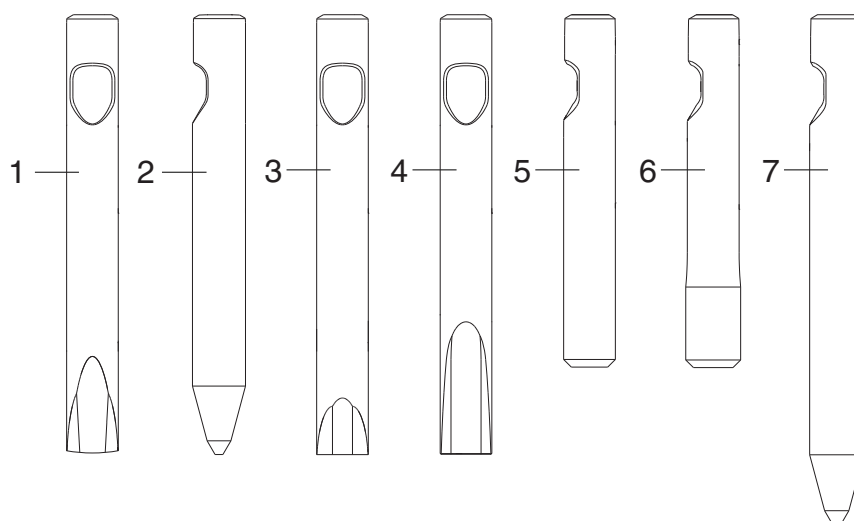
9. LOWER TOOL BUSHING



R061302

Item	Description	Part no.	Specification	Note	Qty
1	TS bushing kit (incl. part 2-6)	173175			1
2	Lower tool bushing	N/A			1
3	Bronze insert kit (incl. parts 4-6)	K20BRONZ E2577			1
4	Bronze insert	N/A			1
5	Guide	171610			1
6	Locking ring	170993			1
7	Tool seal	173150			1

10. TOOL

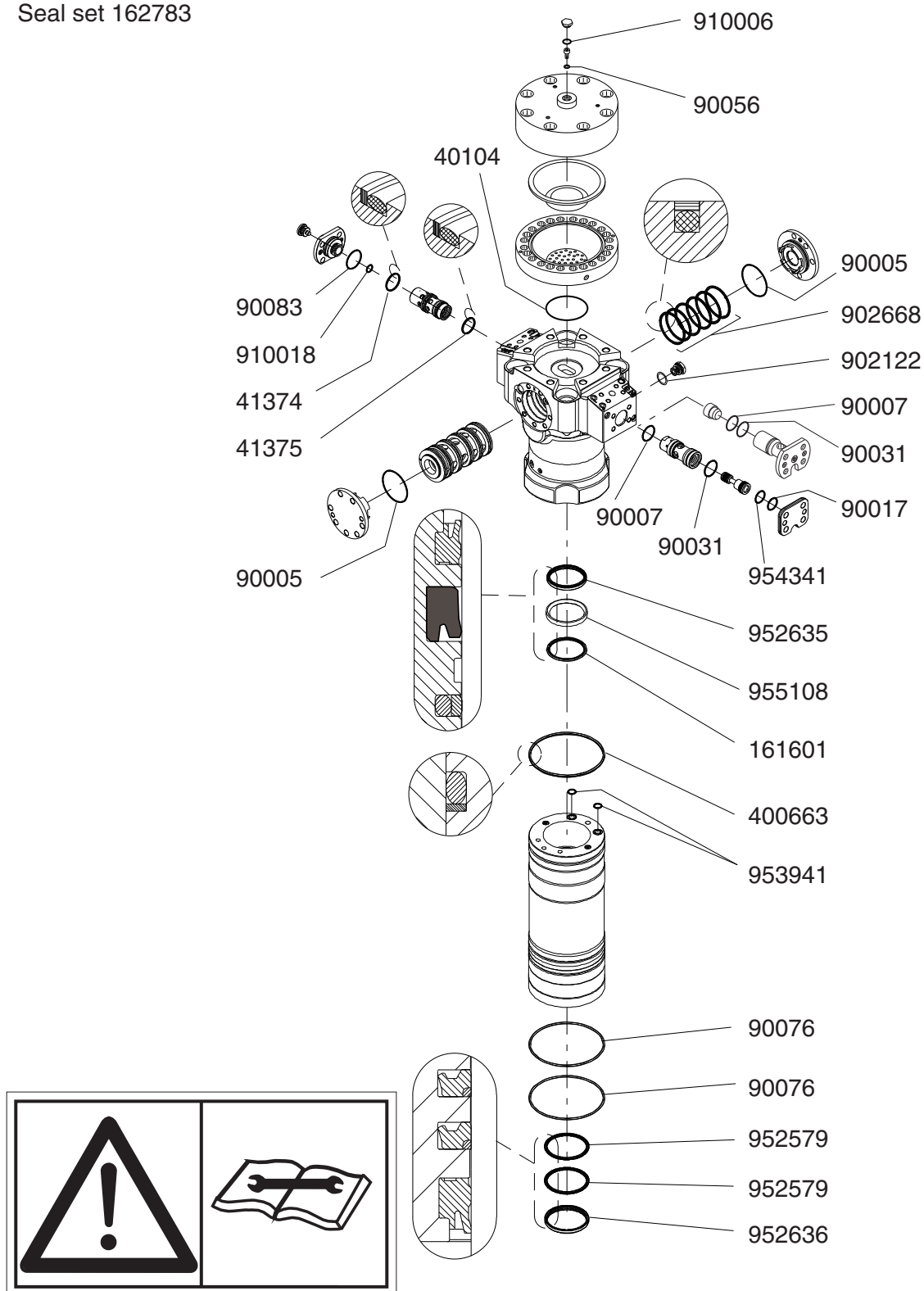


R061303

Item	Description	Part no.	Specification	Note	Qty
1	Chisel, for tunneling and primary breaking	771Z1	L = 1120 mm, W = 112 kg, D = 135 mm		1
2	Moil point, for tunneling and primary breaking	773Z1	L = 1120 mm, W = 108 kg, D = 135 mm		1
3	Limestone Chisel, for tunneling and primary breaking	771F3Z1	L = 1120 mm, W = 115 kg, D = 135 mm		1
4	Hard Rock Chisel, for tunneling and primary breaking	771A2Z1	L = 1120 mm, W = 106 kg, D = 135 mm		1
5	Blunt	774	L = 920 mm, W = 98 kg, D = 135 mm		1
6	Super blunt	774T2	L = 920 mm, W = 102 kg, D = 135 mm		1
7	Long moil point	778	L = 1270 mm, W = 125 kg, D = 135 mm		1

11. SEAL SET

Seal set 162783

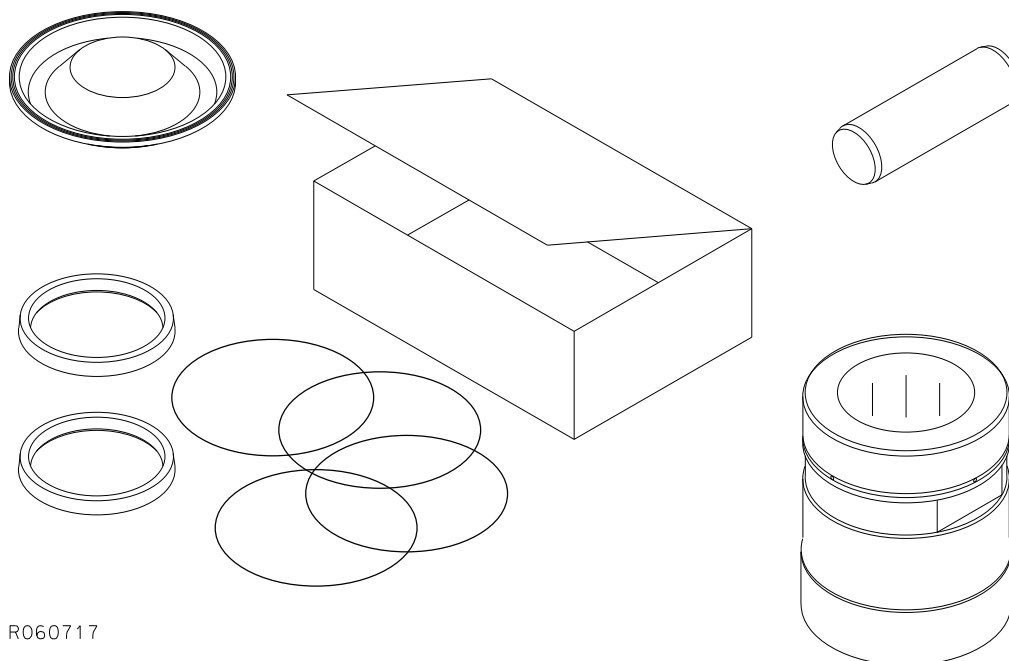


This summary only indicates the position of the seals. It must NOT be used as assembly instruction. Read the service manual. Notice! Assembly must be performed by qualified service personnel only.

R061439

Item	Description	Part no.	Specification	Note	Qty
Kit	Seal set (incl. parts 1-22)	162783			1
1	Seal	40104	D114		1
2	O-ring	910006	D23		1
3	Usit-ring	90056	8-13.9-1		1
4	O-ring	90005	D105		2
5	Seal	902668	D110		6
6	O-ring	90031	D46		1
7	O-ring	90007	D44		1
8	O-ring	90017	D34		1
9	O-ring	90083	D60		1
10	O-ring	910018	D21		1
11	Seal	41374	D55		1
12	Seal	41375	D50		1
13	O-ring	902122	D24		1
14	Wiper	952635			1
15	Seal	955108			1
16	Seal	161601			1
17	Wiper	952636			1
18	Seal	952579			2
19	Seal	400663	D230		1
20	O-ring	90076	D229		2
21	O-ring	953941	D21		2
22	Seal	954341			1

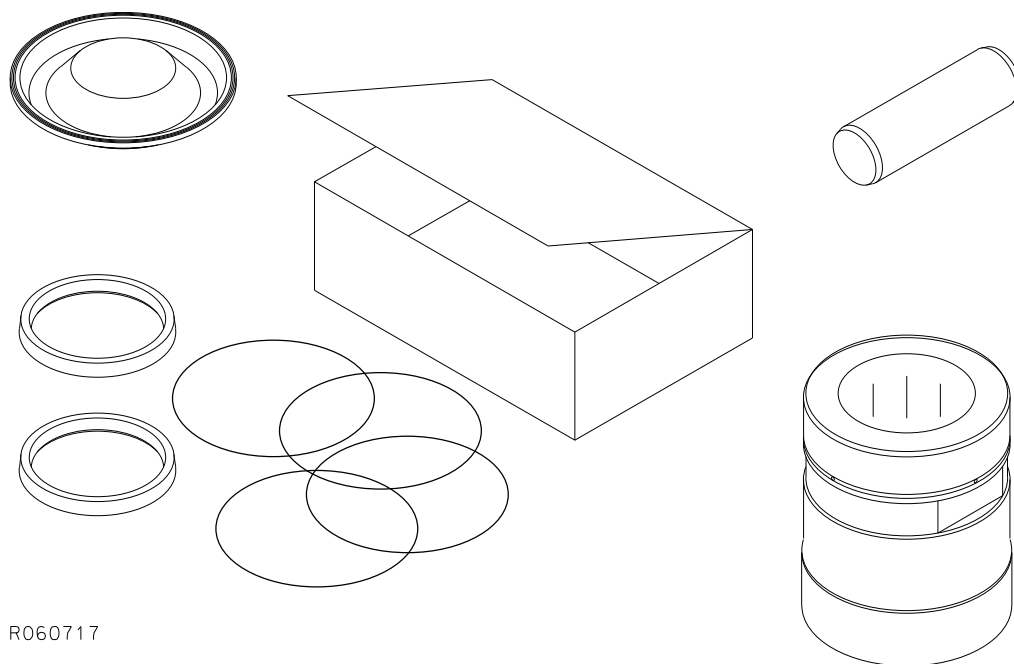
12. SERVICE KIT 1



R060717

Item	Description	Part no.	Specification	Note	Qty
Kit	Service kit (incl. parts 1 - 4)	K102577			1
1	Membrane	30211			1
2	Tool retaining pin	160942			1
3	Bronze insert kit	K20BRONZ E2577			1
4	Seal set	162783			1

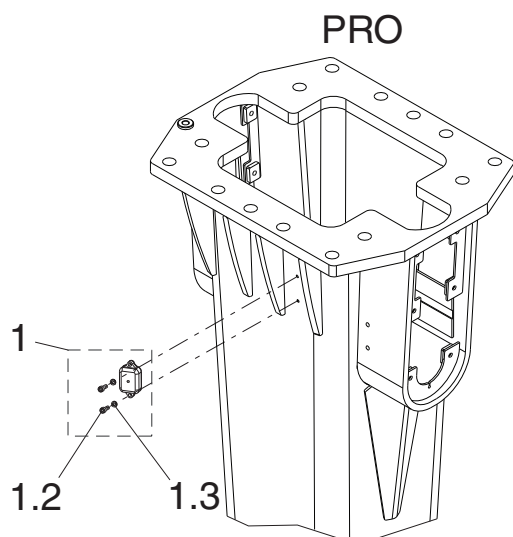
13. SERVICE KIT 2



R060717

Item	Description	Part no.	Specification	Note	Qty
Kit	Service kit (incl. parts 1 - 4)	K202577			1
1	Pad	300954			2
2	Buffer	172696			1
3	Wear plate	173138			4
4	Upper tool bushing	160940			1

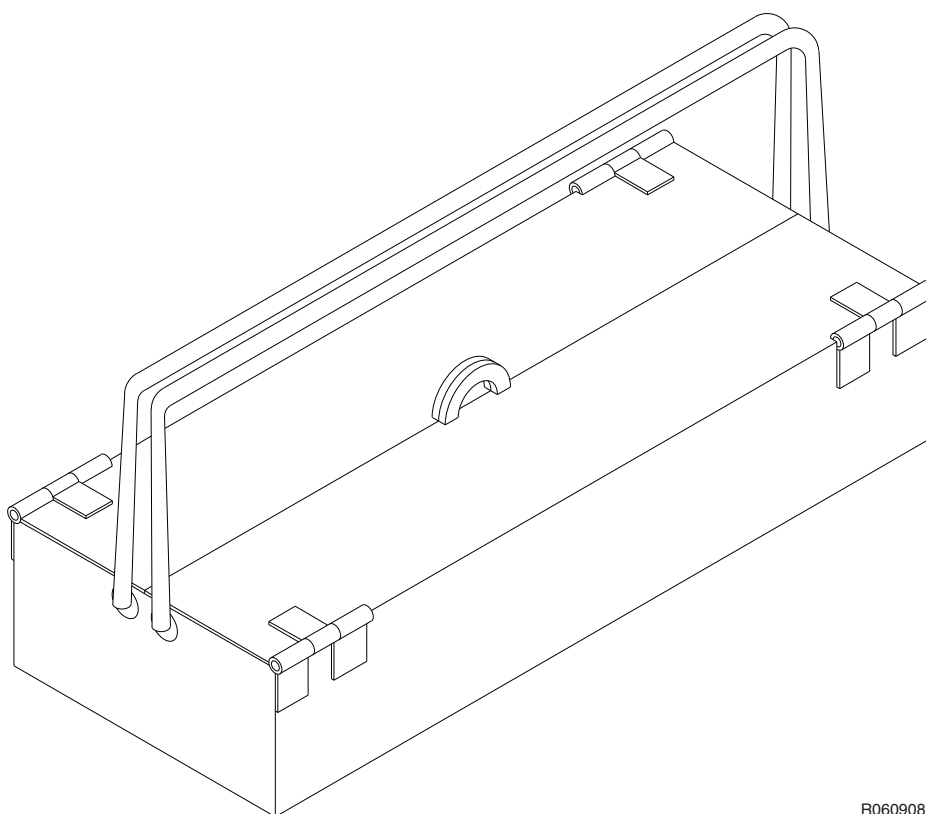
14. RAMDATA II SERVICE INDICATOR



R061255

Item	Description	Part no.	Specification	Note	Qty
1	Ramdata II service indicator (incl. parts 1.2-1.3)	159143			1
1.2	Hex. socket screw	91020	M8x25- 8.8 ISO 4762		2
1.3	Lock washer	91011	M8 NORD-LOCK		2

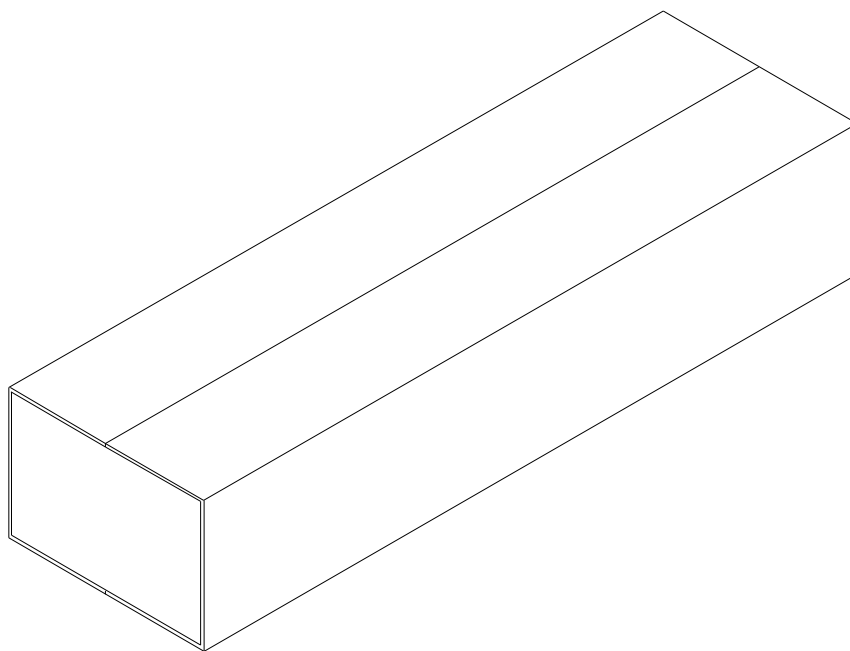
15. TOOL BOX PRO



R060908

Item	Description	Part no.	Specification	Note	Qty
Kit	Tool box PRO (incl. parts 1-10)	173750			1
1	Tool box	N/A			1
2	Grease gun	90202			1
3	Tool grease	902045			1
4	Puller	150020			1
5	Screwdriver	N/A	6x150		1
6	Combination spanner	N/A	12		1
7	Flange plug	90444	R3/8		3
8	Double open-end spanner	N/A	24/27		1
9	Safety glasses	N/A			1
10	Hex. socket	N/A	13 (1/4)		1

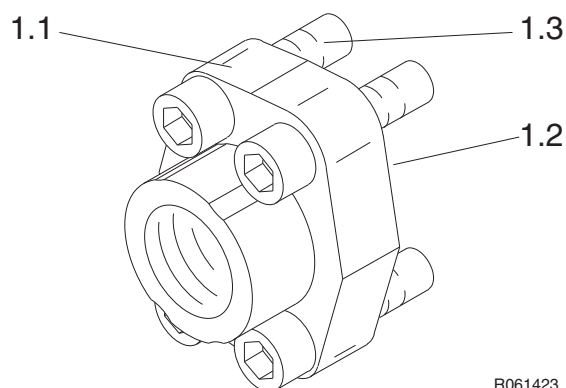
16. TOOL BOX TS1



R061320

Item	Description	Part no.	Specification	Note	Qty
Kit	Tool box TS1 (incl. parts 1-10)	173751			1
1	Cardboard box	N/A			1
2	Safety glasses	N/A			1
3	Slide hammer kit	169925			1
4	Cutting tool kit	171611			1

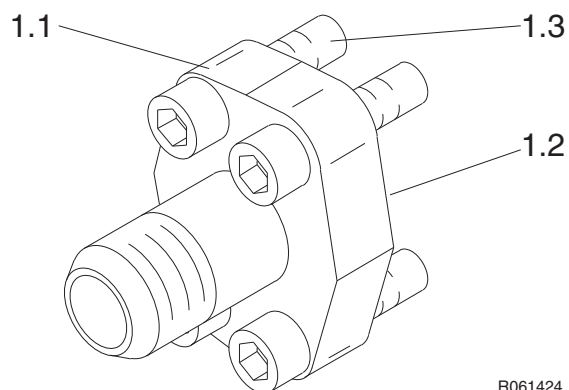
17. COUPLING SET



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

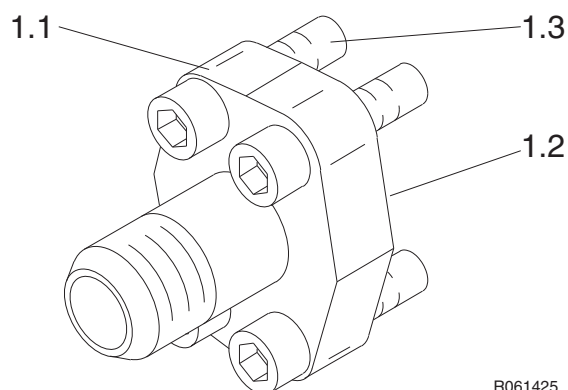
18. COUPLING SET



R061424

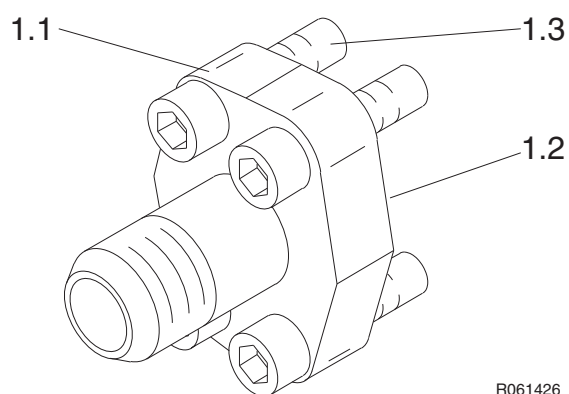
Item	Description	Part no.	Specification	Note	Qty
1	Coupling set (incl. parts 1.1-1.3)	400599			1
1.1	Flange	915069	SAE 1 1/4 6000 psi - JIC 20, 1 5/8-12 MALE		2
1.2	O-ring	90009			2
1.3	Hexagon socket screw	90593	M14x45-8.8 ISO 4762		8

19. COUPLING SET



Item	Description	Part no.	Specification	Note	Qty
1	Coupling set (incl. parts 1.1-1.3)	400591			1
1.1	Flange	915055	SAE 1 1/4 6000 psi - JIS 30° BSP 1 1/4 MALE		2
1.2	O-ring	90009			2
1.3	Hexagon socket screw	90593	M14x45-8.8 ISO 4762		8

20. COUPLING SET



R061426

Item	Description	Part no.	Specification	Note	Qty
1	Coupling set (incl. parts 1.1-1.3)	400590			1
1.1	Flange	915071	SAE 1 1/4 6000 psi - M52x2 MALE		2
1.2	O-ring	90009			2
1.3	Hexagon socket screw	90593	M14x45-8.8 ISO 4762		8



Sandvik Mining and Construction Oy, Breakers Lahti
Taivalkatu 8, P.O. Box 165, FI-15101 Lahti, Finland
Phone Int. +358 205 44 151, Telefax Int. +358 205 44 150
www.rammer.com