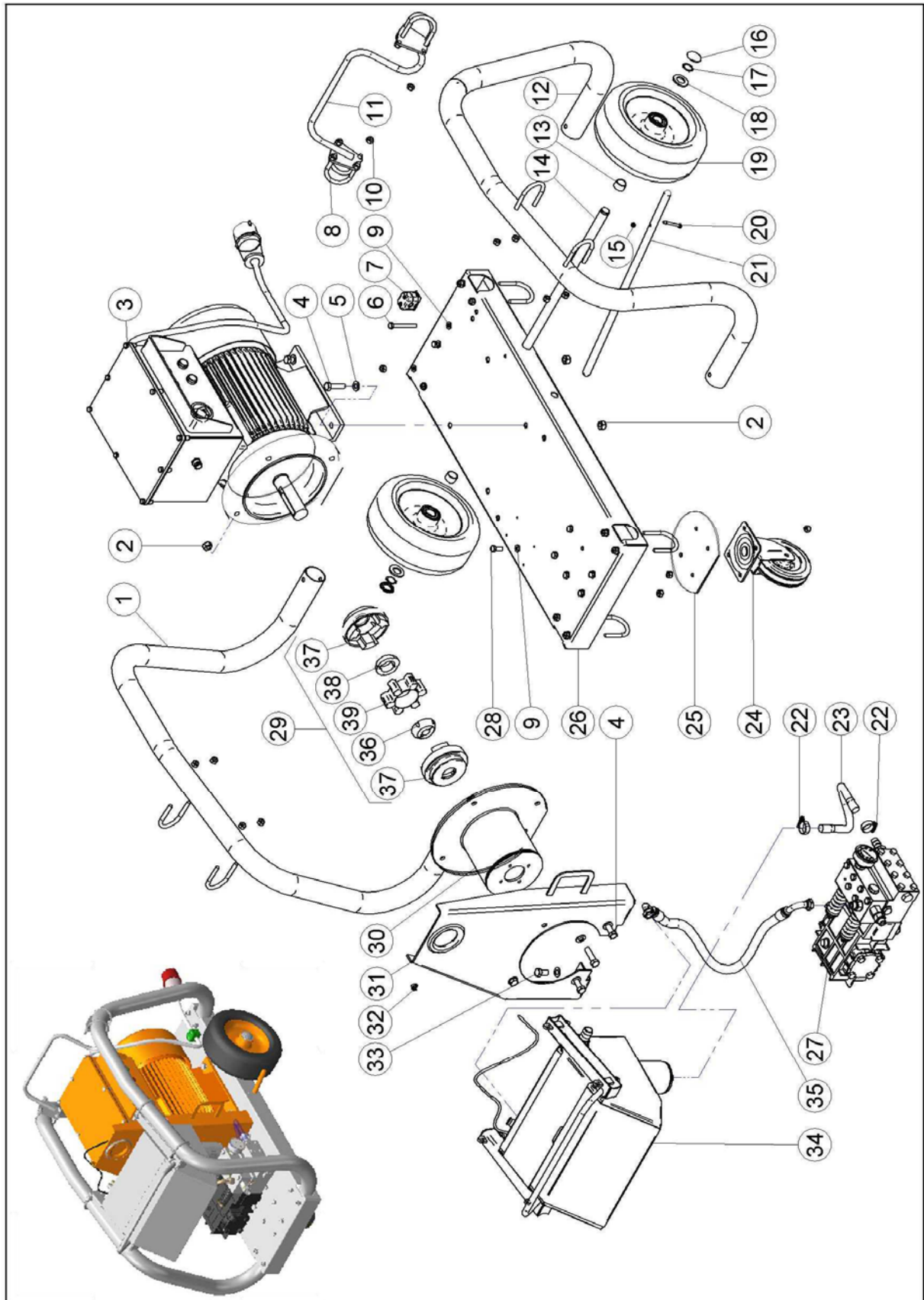


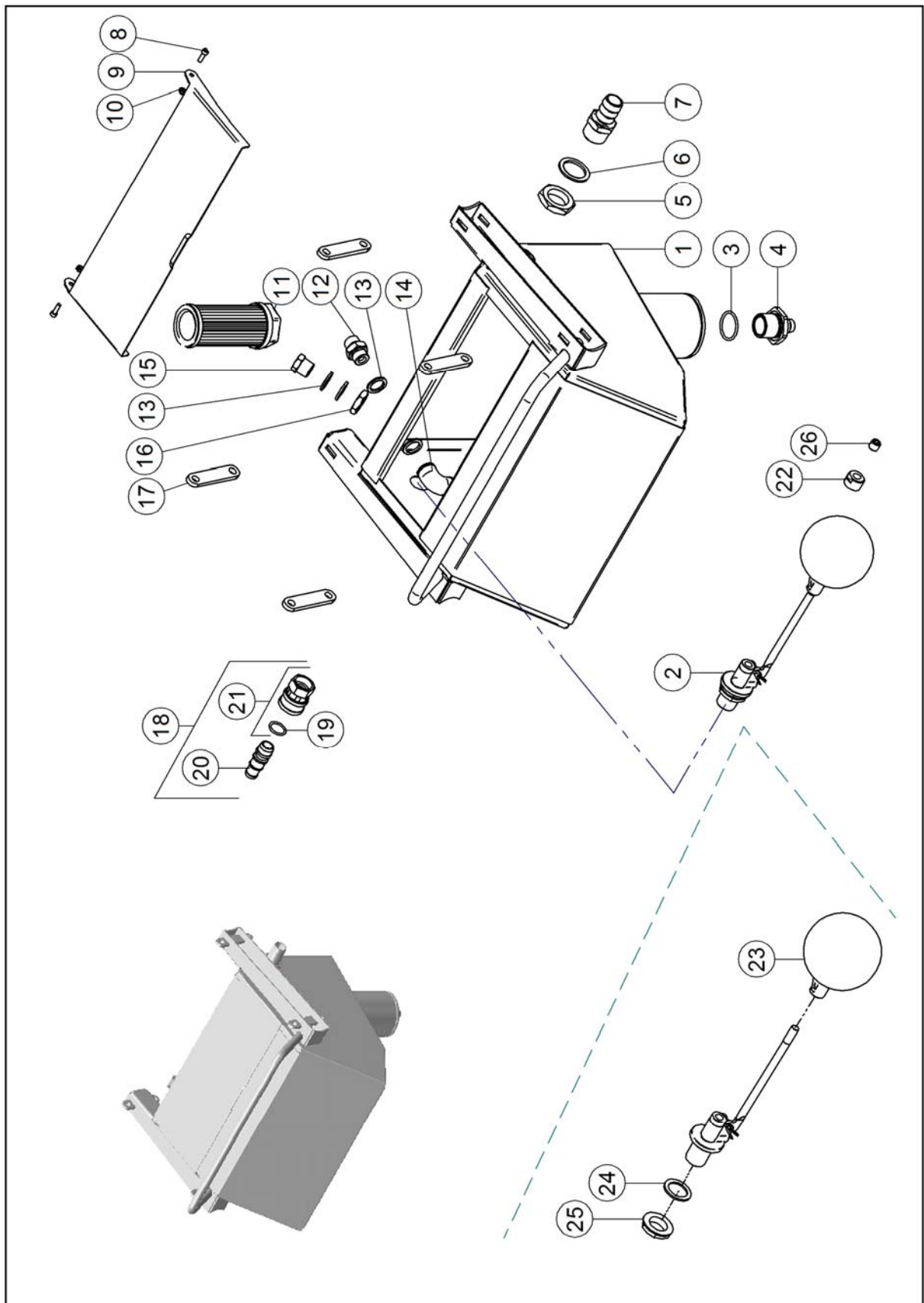
CE20- 500 WATER-BLASTER **MAIN SPARE-PARTS ASSEMBLY**



**CE20- 500 WATER-BLASTER
MAIN SPARE-PARTS LIST**

Pos	Item No.	Qty	Description
1	81000249	1	RIGHT FRAME
2	80100192	10	LOCK NUT
3	N/A	1	EL SYSTEM
4	80100195	8	SCREW
5	80100636	10	WASHER
6	80100379	4	SCREW
7	80100597	1	CABLE CLAMP
8	80100617	12	U-BOLT
9	80100506	16	WASHER
10	80100259	32	LOCK NUT
11	81000447	1	HOLDER CABLE
12	81000248	1	LEFT FRAME
13	81000623	2	SPACER
14	81000621	1	AXLE
15	80100053	1	LOCK NUT
16	81000619	2	HUB-CAP STAR LOCK
17	80100669	2	CIR CLIP
18	80100668	2	WASHER
19	81000618	2	WHEEL PNEUMATIC
20	80100254	1	SCREW
21	81000251	1	MECHANICAL BRAKE
22	80100527	2	HOSE CLIPS
23	83400525	0,5m	HOSE
24	81000235	1	CASTOR WHEEL
25	81000445	1	SUPPORT CASTOR WHEEL
26	81000242	1	BASE PLATE
27	81200639	1	PUMP ASSEMBLY 60Hz
27	81200243	1	PUMP ASSEMBLY 50Hz
28	80100258	4	SCREW
29	81000244	1	COUPLING
30	81000240	1	BELL HOUSING
31	81000250	1	LIFT PLATE
32	80100641	1	PLASTIC STRIPS
33	80100629	2	SCREW
34	81000236	1	WATER TANK
35	81300594	1	HOSE DUMP BACK
36	81000595	1	TAPER BUSH PUMP SIDE
37	81000592	2	COUPLING HALF
38	81000593	1	TAPER BUSH MOTOR SIDE
39	81000594	1	RUBBER ELEMENT COUPLING

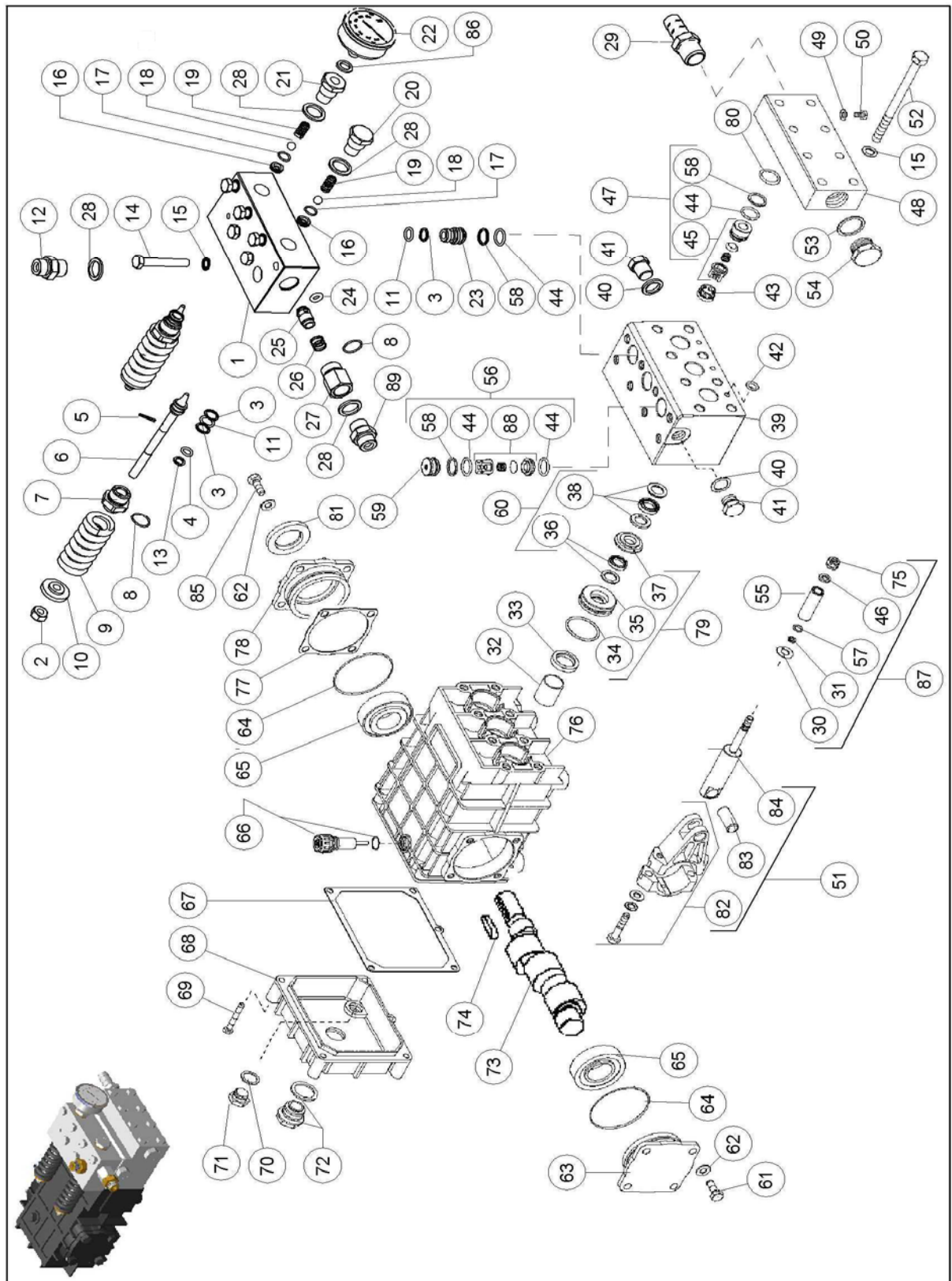
CE20-500 WATER BLASTER **WATER TANK SPARE-PARTS ASSEMBLY**



**CE20-500 WATER BLASTER
WATER TANK SPARE-PARTS LIST**

Pos	Item No.	Qty	Description
1	81000313	1	WATER TANK CE20 WELDED
2	81000602	1	FLOAT VALVE 3/4" ASSY.
3	80200402	1	O-RING
4	80500761	1	HOSE NIPPLE
5	80100405	1	CONTRA NUT
6	80500521	1	BONDED SEAL
7	80500227	1	HOSE NIPPLE
8	80100605	2	SCREW
9	81000311	1	LID
10	80100513	2	LOCK NUT
11	81000199	1	FILTER STRAINER
12	80500375	1	NIPPLE
13	80500429	4	BONDED SEAL
14	80500647	1	ELBOW
15	80500495	1	PLUG
16	80100632	1	CONTRA NUT
17	81000425	4	BRACKET
18	80500423	1	QUICK COUPLING COMPLETE
19	80200612	1	O-RING
20	80500603	1	QUICK COUPLING HOSE NIPPLE
21	80500604	1	QUICK COUPLING F
22	81000774	1	ADAPTOR
23	81000606	1	BALL
24	80500601	1	RUBBER WASHER
25	80500599	1	CONTRA NUT
26	80500341	1	PLUG

CE20-500 WATER BLASTER PUMP SPARE-PARTS ASSEMBLY



**CE20-500 WATER BLASTER
PUMP SPARE-PARTS LIST**

Pos	Item No.	Qty	Description
1	81300293	1	UNLOADER HOUSING
2	80100259	2	LOCK NUT
3	80200605	5	BACK UP RING
4	80200598	2	O-RING
5	81300551	2	PIN
6	81300548	2	PISTON FOR UNLOADR
7	81300292	2	PISTON HOUSING UNLOADER
8	80200599	3	O-RING
9	80300549	2	SPRING BLACK
10	81300550	2	SPRING GUIDE
11	80200606	3	O-RING
12	80500792	1	NIPPLE
13	80200604	2	BACK UP RING
14	80100598	6	SCREW Torque: 50Nm / 37 lbsft
15	80100599	14	WASHER
16	81300595	2	VALVE SEAT
17	80200597	2	O-RING
18	81300559	2	BALL
19	80300555	2	SPRING FOR BALL
20	81300596	1	PLUG UNLOADER
21	81300597	1	PLUG GAUGE
22	81300593	1	GAUGE
23	81300598	1	CONNECTOR UNLOADER
24	80200291	1	O-RING
25	81300290	1	CHECK VALVE UNLOADER
26	80300556	1	SPRING FOR CHECK VALVE
27	81300289	1	OUTLET FITTING
28	80500429	4	BONDED SEAL
29	80500436	1	HOSE NIPPLE
30	81200600	3	PLUNGER.DISC
31	81200601	3	RING
32	81200903	3	GUIDE BEARING
33	81200603	3	OIL SEAL
34	80200607	3	O-RING
35	81200604	3	BRASS RING
36	81200605	3	LOW PRESSURE SEAL KIT
37	81200606	3	BACK UP RING
38	81200607	3	HIGH PRESSURE SEAL KIT
39	81200608	1	PUMP HEAD
40	80500605	2	BONDED SEAL
41	80500598	2	PLUG
42	80200598	3	O-RING
43	81200609	3	SPACER
44	80200608	9	O-RING
45	81200711	3	SUCTION VALVE
46	81200611	3	GASKET

Pos	Item No.	Qty	Description
47	81200612	1	REP. KIT SUCTION VALVE
48	81200613	1	INLET BLOCK
49	80200609	1	WASHER
50	80100601	1	SCREW
51	81200599	1	CONNECTING ROD ASSEMBLY
52	80100602	8	SCREW Torque: 50Nm / 37 lbsft
53	81200614	1	WASHER
54	81200615	1	PLUG
55	81200616	3	PLUNGER SLEEVE
56	81200617	1	DISCHARGE VALVE ASSEMBLY
57	80200610	3	O-RING
58	80200611	6	BACK-UP RING
59	81200618	2	VALVE PLUG
60	81200619	1	SEAL KIT COMPLETE
61	80100603	4	SCREW Torque: 25Nm / 19 lbsft
62	80100170	8	WASHER
63	81200620	1	FLANGE CLOSED
64	80200407	2	O-RING
65	80400506	2	BEARING
66	81200621	1	OIL BREATHER
67	81200622	1	BACK COVER GASKET
68	81200623	1	CRANK CASE COVER
69	80100604	5	SCREW Torque: 11Nm / 8 lbsft
70	81200624	1	GASKET
71	81200625	1	PLUG
72	81200365	1	OIL LEVEL GLASS
73	81200627	1	CRANKSHAFT 50 Hz
73	81200628	1	CRANKSHAFT 60 Hz.
74	81200629	1	KEY
75	81200630	3	PLUNGER NUT Torque: 20Nm / 15 lbsft
76	81200631	1	CRANK CASE
77	81200632	1	SHIM
78	81200633	1	FLANGE OPEN
79	81200634	1	BACK UP RING KIT
80	80200612	3	O-RING
81	81200635	1	OIL SEAL
82	81200636	3	CONNECTING ROD Torque: 30Nm / 22 lbsft
83	81200637	3	WRIST PIN
84	81200638	3	CROSS HEAD
85	80100171	4	SCREW
86	80100644	1	CONTRA NUT
87	81200704	1	PLUNGER REP KIT W/O PLUNGER SLEEVE
88	81200712	3	DISCHARGE VALVE
89	80500375	1	NIPPLE
	81300619	2	REP KIT UNLOADER & SAFETY VALVE 500BAR

CE20-500 WATER BLASTER VALVE REPAIR KIT

Item No./Kit Description	Pos.	Item No.	Qty.	Description
Pos.56 81200617/ DISCHARGE VALVE REP.KIT	88	81200712	3	DISCHARGE VALVE
	44	80200608	6	O-RING
	58	80200611	3	BACK-UP RING
Pos.47 81200612/ SUCTION VALVE REP.KIT	45	81200711	3	SUCTION VALVE
	44	80200608	3	O-RING
	58	80200611	3	BACK-UP RING

Item No./Kit Description	Pos.	Item No.	Qty.	Description
Pos.51 81200599/ CONNECTING ROD KIT	82	81200636	1	CONNECTING ROD
	83	81200637	1	WRIST PIN
	84	81200638	1	CROSS HEAD

3 set of Connecting Rod Kit are required to overhaul one pump

Item No./Kit Description	Pos.	Item No.	Qty.	Description
Pos.87 81200704/ PLUNGER REP KIT	31	81200601	3	RING
	30	81200600	3	PLUNGER DISC
	46	81200611	3	GASKET
	57	80200610	3	O-RING
	75	81200630	3	PLUNGER NUT

Item No./Kit Description	Pos.	Item No.	Qty.	Description
Pos.60 81200619/ SEAL REP.KIT	36	81200605	3	LOW PRESSURE SEAL KIT
	38	81200607	3	HIGH PRESSURE SEAL KIT

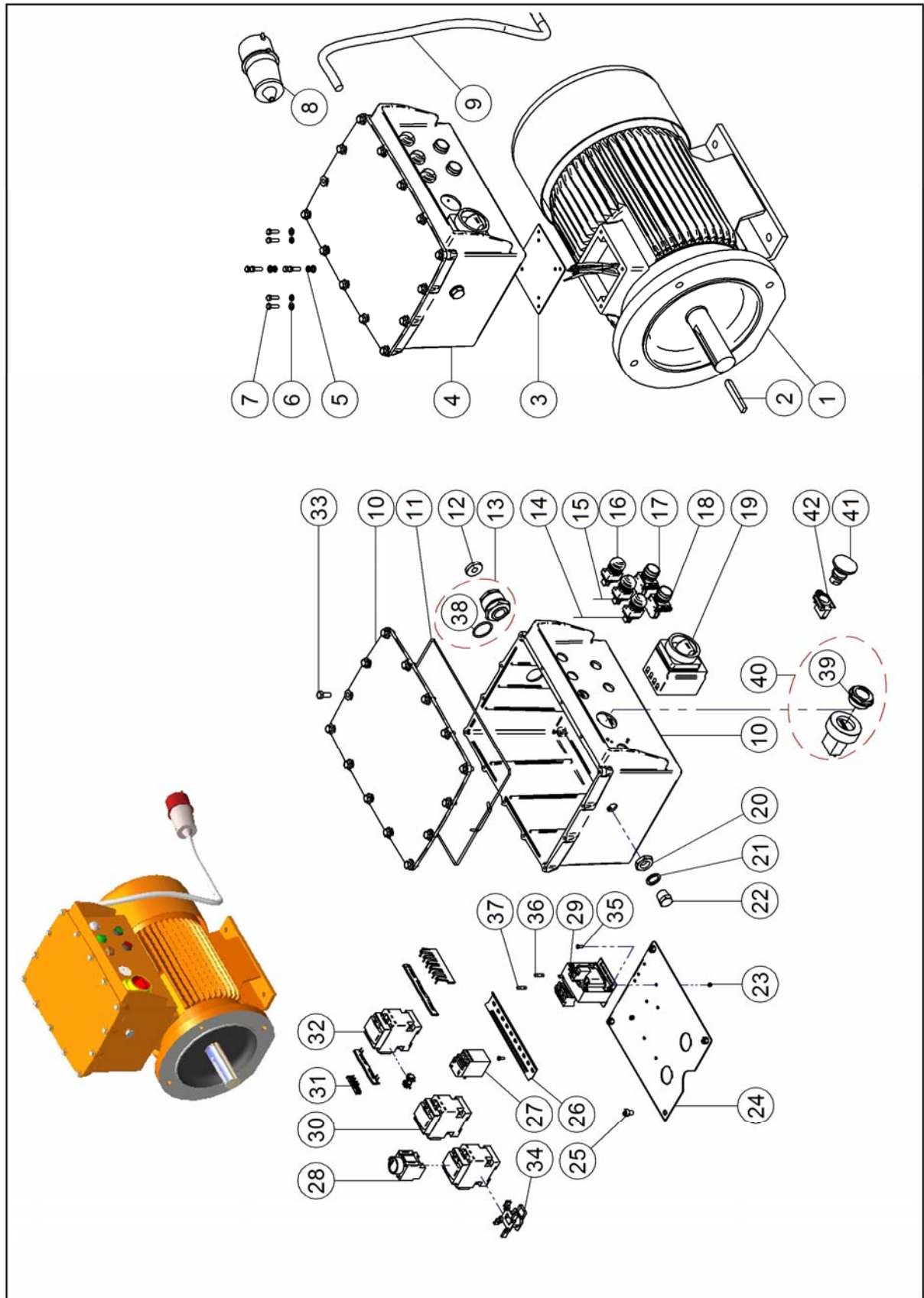
Item No./Kit Description	Pos.	Item No.	Qty.	Description
Pos.79 81200634/ BACK UP RING REP. KIT	37	81200606	3	BACK UP RING
	35	81200604	3	BRASS RING
	34	80200607	3	O-RING

UNLOADER REPAIR KIT

Item No./Kit Description	Pos.	Item No.	Qty.	Description
81300619 REP KIT UNLOADER & SAFETY VALVE	3	80200605	2	BACK UP RING
	4	80200598	1	O-RING
	8	80200599	2	O-RING
	11	80200606	1	O-RING
	13	80200604	1	BACK UP RING
	16	81300595	1	VALVE SEAT
	17	80200597	1	O-RING
	18	81300559	1	BALL
	24	80200291	1	O-RING

2 set of Repair Kit are required to overhaul both unloader and safety valve

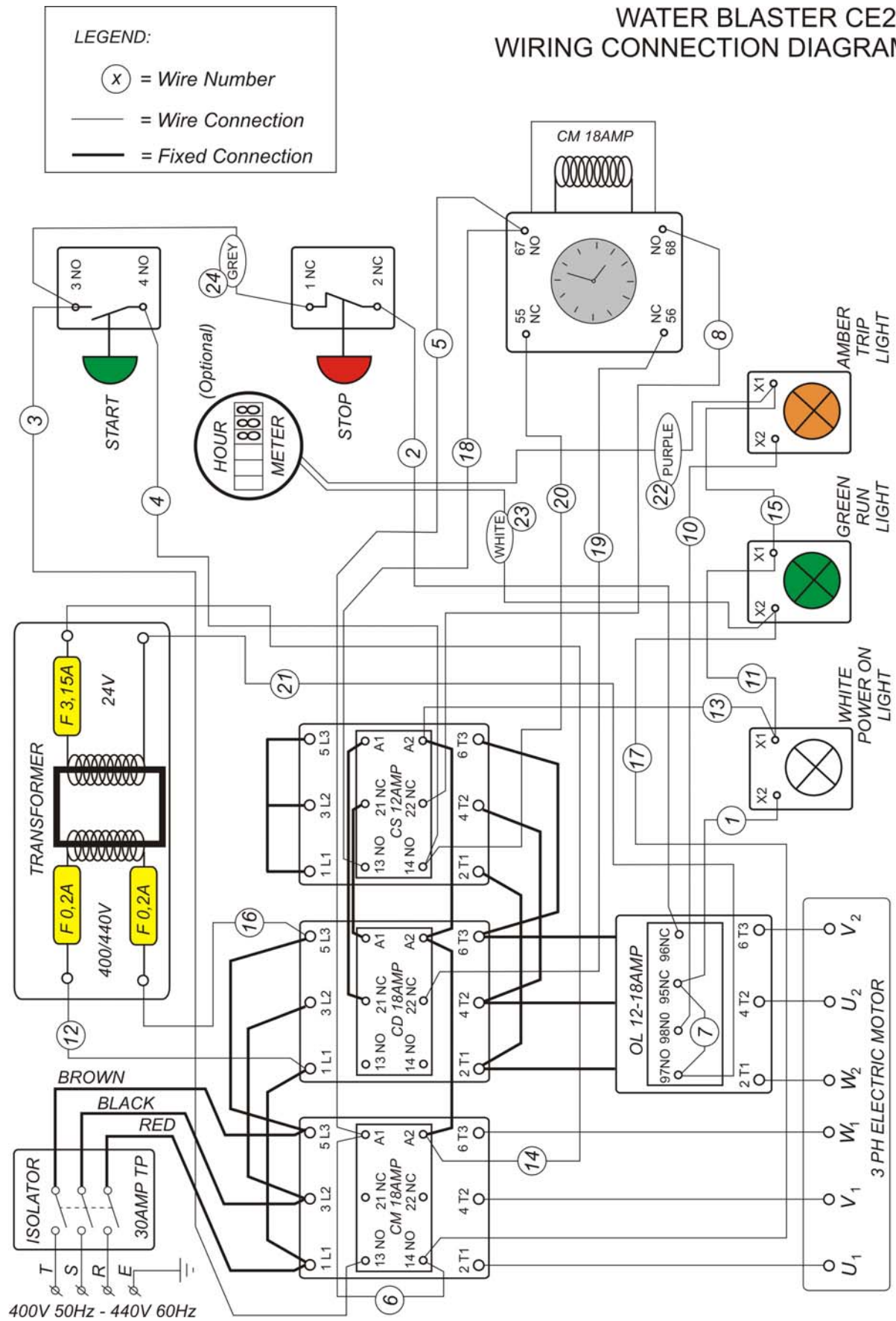
CE20-500 WATER BLASTER ELECTRICAL SYSTEM SPARE-PARTS ASSEMBLY



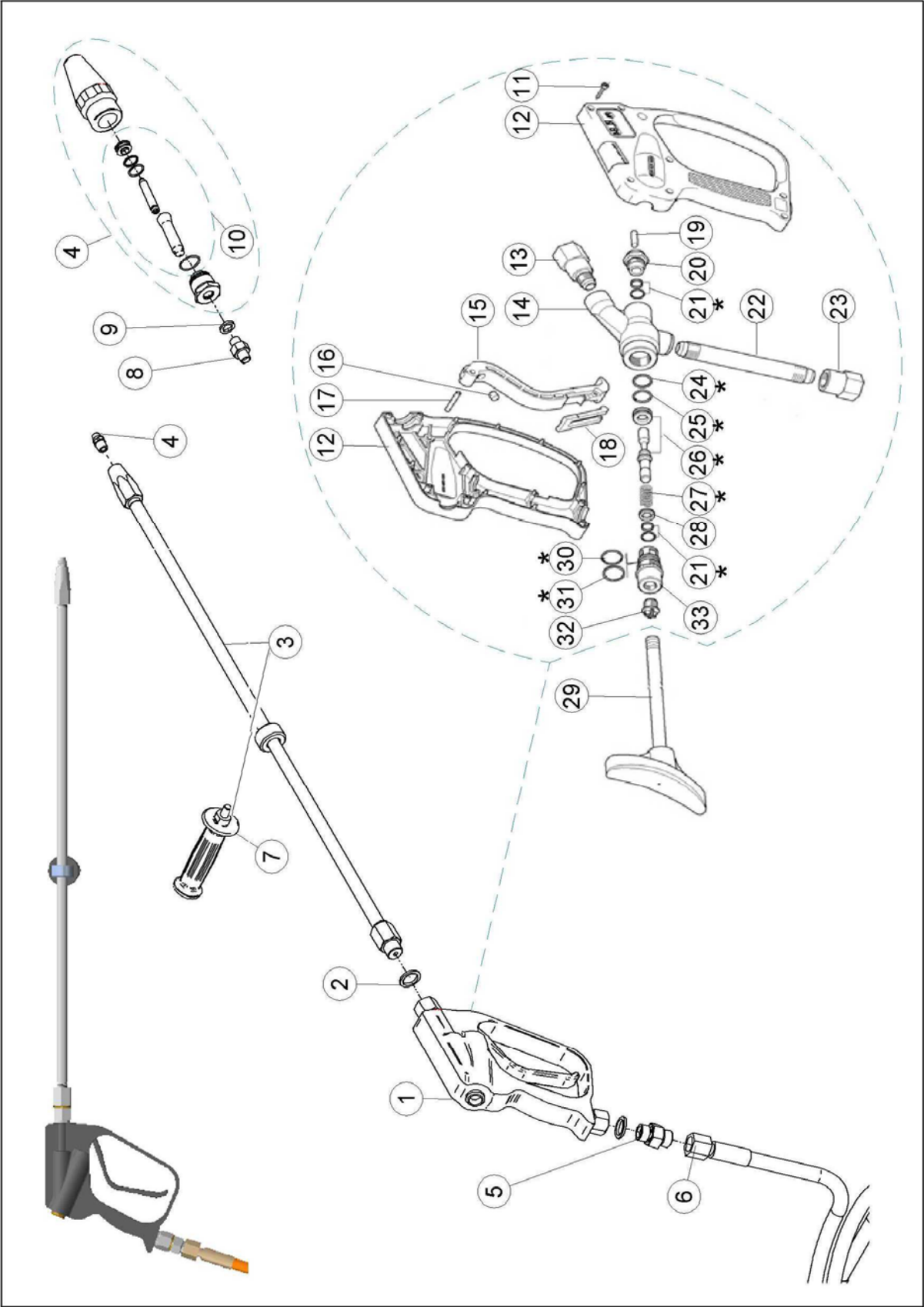
**CE20-500 WATER BLASTER
ELECTRICAL SYSTEM SPARE-PARTS LIST**

Pos	Item No.	Qty	Description
1	81100245	1	MOTOR 20hp 4P B35 CASING 160L 400/690V-50/60HZ
2	81100602	1	KEY
3	81100600	1	RUBBER WASHER
4	81100683	1	EL-BOX ASSY. CE20
5	80100618	4	COPPER WASHER
6	80100398	4	COPPER WASHER
7	80100385	8	SCREW
8	81100630	1	PLUG CEE
9	83500592	15M	CABLE
10	81000727	1	EL-BOX (BOX+ LID)
11	83300602	1.3M	ROPE SEAL
12	81100632	1	RUBBER SEAL
13	81000406	1	GLAND NUT COMPLETE
14	81100594	1	PILOT LIGHT AMBER
15	81100596	1	PILOT LIGHT GREEN
16	81100595	1	PILOT LIGHT WHITE
17	81100598	1	BUSH BOTTON ON (GREEN)
18	81100599	1	BUSH BOTTON OFF (RED)
19	81100581	1	CIRCUIT BREAKER
20	80100632	1	CONTRA NUT
21	80500429	1	BONDED SEAL
22	80500495	1	PLUG
23	80100596	4	LOCK NUT
24	81000396	1	MOUNTING PLATE
25	80100382	4	SCREW
26	81100575	1	OMEGA RAIL
27	81100577	1	OVER LOAD RELAY
28	81100580	1	TIMER
29	81100500	1	TRANSFORMER
30	81100576	2	CONTACTOR
31	81100572	1	CONNECTION SET
32	81100578	1	CONTACTOR
33	80100671	14	SCREW
34	81100579	3	COIL FOR CONTACTOR
35	80100595	4	SCREW
36	81100574	1	FUSE 3.15 A
37	81100573	3	FUSE 0.2 A
38	80200402	1	O-RING
39	81000757	1	SIGHT GLASS OPTIONAL
40	81100857	1	HOUR METER ASSY. OPTIONAL
41	81100700	1	EMERGENCY BUTTON OPTIONAL
42	81100699	1	EMERGENCY BREAKER OPTIONAL
	81100601		WIRE HARNESS

WATER BLASTER CE20 WIRING CONNECTION DIAGRAM



DRY SHUT GUN 8KPSI
SPARE-PARTS ASSEMBLY



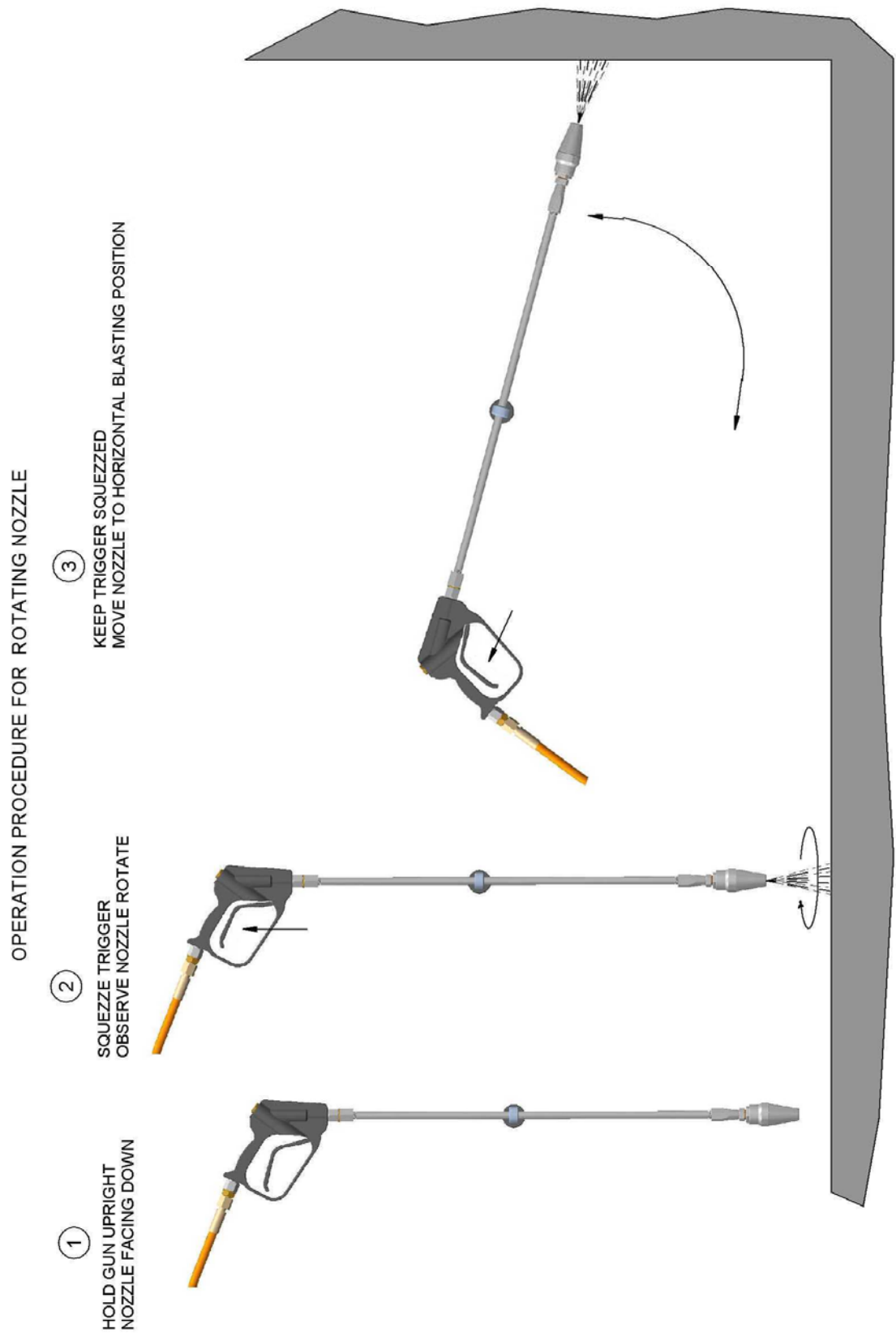
**DRY SHUT GUN 8KPSI
SPARE-PARTS LIST**

Pos	Item No.	Qty	Description
	81400895		GUN DRY SHUT WO (NOZZLE ,HOSE ,NIPPLE, SHOULDER REST)
1	81400860	1	TRIGGER HANDLE
2	80500429	2	BONDED SEAL
3	81400644	1	LANCE LONG 560BAR 1000mm
4		1	NOZZLE
5	80500375	1	NIPPLE
6	81400600		HOSE (H.P) 20m 800 BAR W 1/2"BSPP SWIVEL
6	81400639		HOSE (H.P) 20m 1000 BAR W 1/2"BSPP SWIVEL
6	81400962		HOSE (H.P) 20m 500 BAR W 1/2"BSPP SWIVEL
7	81400075	1	SIDE HANDLE
8	80500654	1	NIPPLE
9	80500595	2	BONDED SEAL
10			REP KIT ROTATING NOZZLE
11	80100594	7	SCREW (Not available separately)
12	81400903	1	HOUSING SET (Not available separately)
13	81400902	1	OUTLET FITTING (Not available separately)
14	81400901	1	VALVE HOUSING (Not available separately)
15	81400906	1	TRIGGER (Not available separately)
16	81400905	1	STRIKER (Not available separately)
17	81400904	1	PIN (Not available separately)
18	81400907	1	SAFETY LATCH (Not available separately)
19	81400864	1	ACTUATOR ROD (Not available separately)
20	81400863	1	PLUG (Not available separately)
21	80200694	2	SEAL ASSY.
22	81400900	1	BACK PIPE (Not available separately)
23	81400899	1	INLET FITTING (Not available separately)
24	80200074	1	BACK UP RING
25	80200070	1	O-RING
26	81400898	1	PISTON-SEAT
27	80300613	1	SPRING
28	81400897	1	SPACER (Not available separately)
29	81400231	1	SHOULDER REST
30	80200601	1	O-RING
31	80200693	1	BACK UP RING
32	81400896	1	PLUG (Not available separately)
33	81400862	1	SPRING HOLDER (Not available separately)
*	81400861		REP. KIT FOR GUN 560BAR (Pos.21,24,25,26,27,30,31)

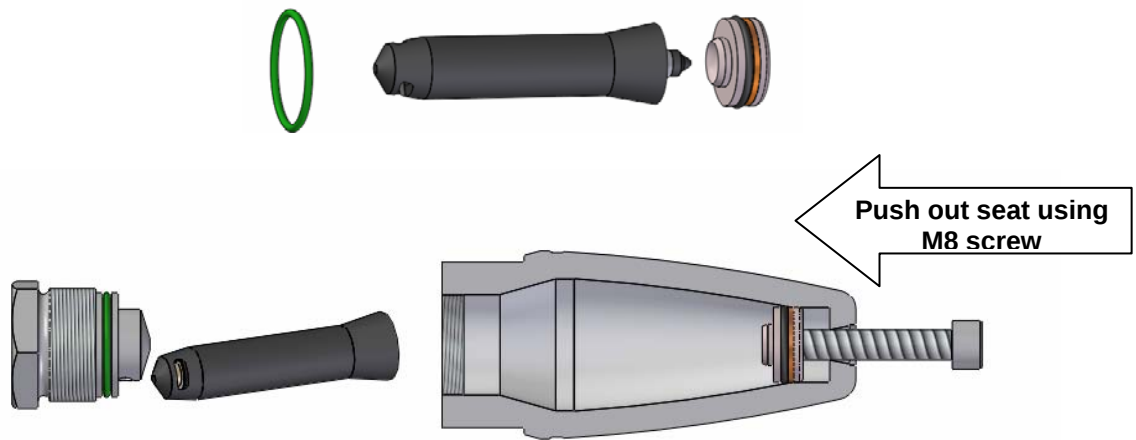
NOZZLE LIST

Pos	Item No.	Qty	Description
4	81500618	1	ROTATING NOZZLE 035
10	81500620		REP. KIT ROT. NOZZLE 035
4	81500629	1	NOZZLE STRAIGHT JET 035
4	81500630	1	NOZZLE FAN JET 035/15°

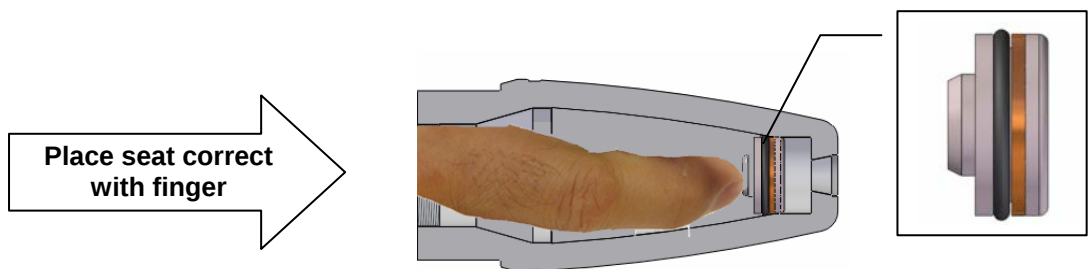
OPERATION PROCEDURE FOR ROTATING NOZZLE



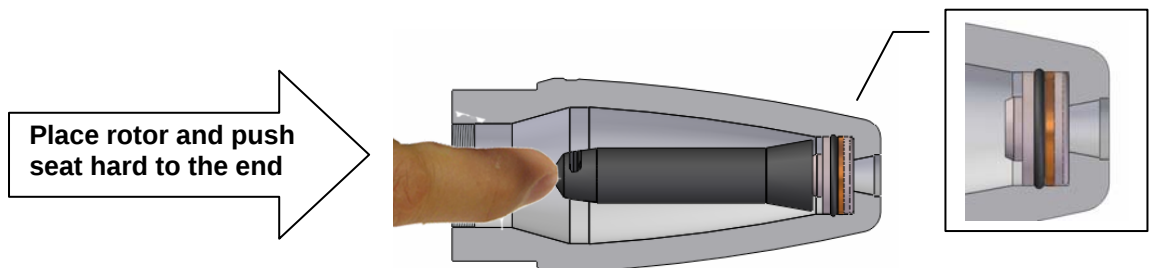
Rotating Nozzle Replacement Procedure Repair Kit



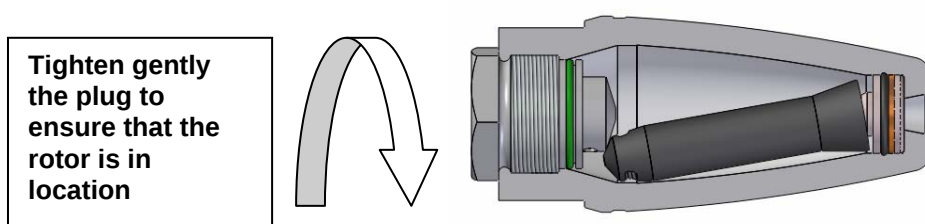
step-1



step-2

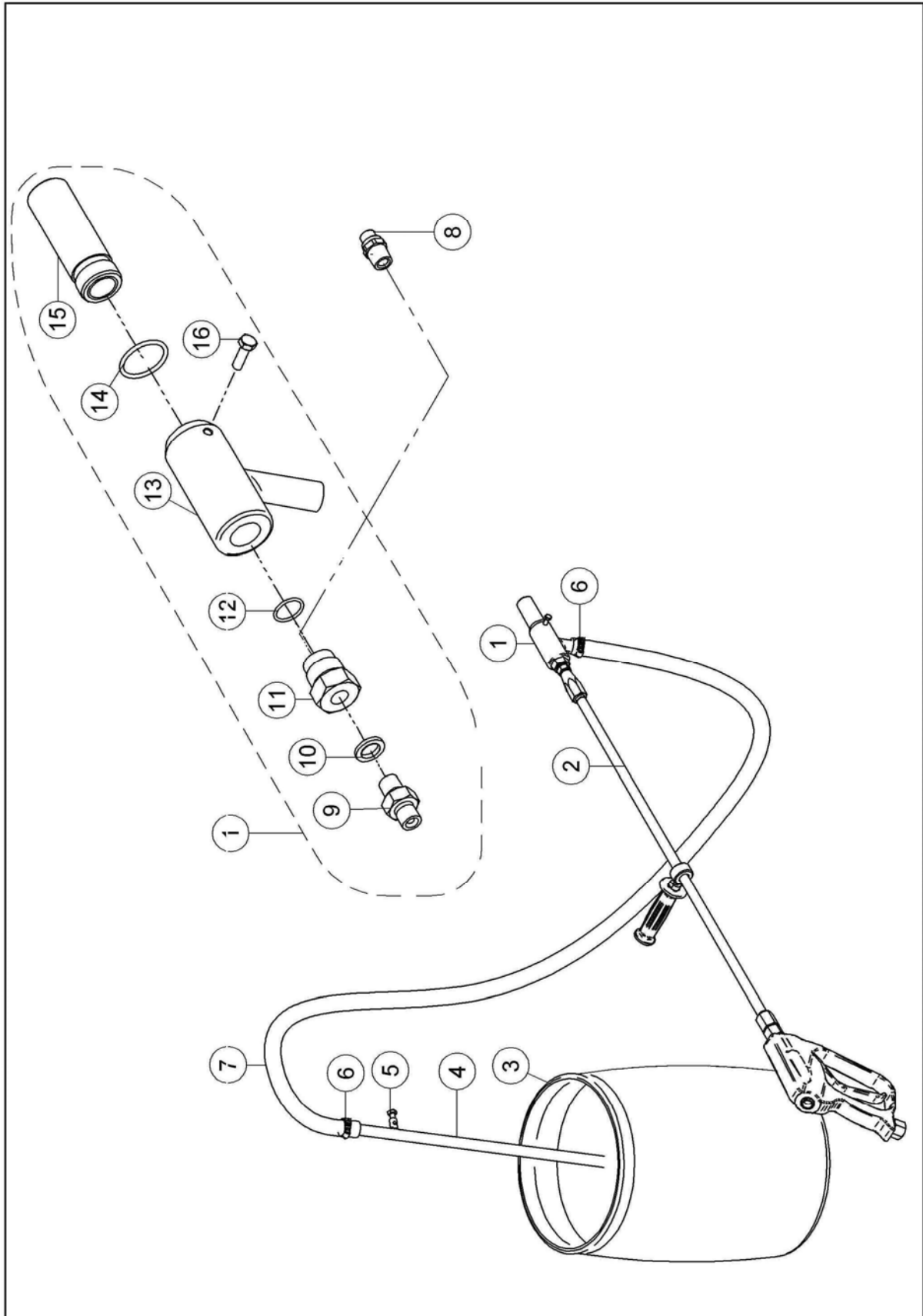


step-3



step-4

**SAND BLASTING EQUIPMENT 1/4" BSPP
SPARE PART ASSEMBLY**



**SAND BLASTING EQUIPMENT 1/4" BSPP
SPARE PART LIST**

Pos.	Item No.	Qty.	Description
1	81400643	1	VENTURI HOUSING COMPLETE FOR 1/4"BSPP FEMALE INLET
2			TRIGGER GUN (NOT INCLUDED)
3	81400641	1	GRIT CONTAINER 120 LITER W/ LID
4	81400629	1	POKER FOR SANDBLASTING EQUIP.
5	80100383	1	SCREW
6	80100527	2	HOSE CLIPS
7	83400596	15m	HOSE
8	81500702	1	WATER NOZZLE SAND BLASTING 035
9	80500654	1	NIPPLE
10	80500595	1	BONDED SEAL
11	81400472	1	NOZZLE ADAPTOR 1/4"BSPP FOR VENTURI SAND BLASTER
12	80200057	1	O RING
13	81500469	1	VENTURI SANDBLASTING
14	80200397	1	O-RING
15	81500567	1	NOZZLE S.B BORON CARBIDE
16	80100385	1	SCREW
	81400654		SAND BLASTING KIT 1/4"BSPP W. POKER Pos.(1,4,5,6,7)