

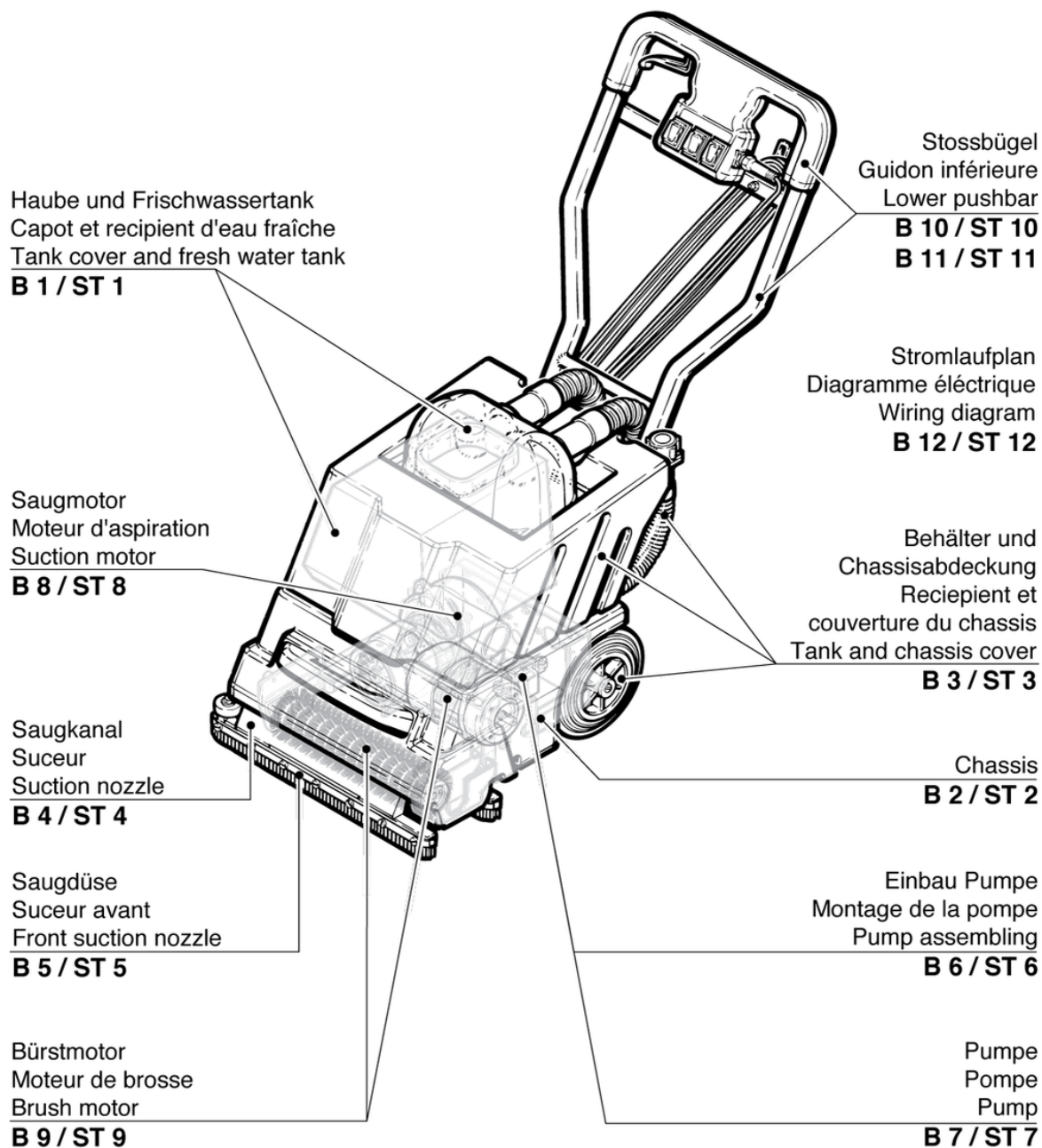
RA400E

Table contents

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RA 400 E



Tank cover and fresh water tank



This exploded view diagram illustrates the assembly of a water filter. The components are numbered as follows:

- 1:** Points to the entire assembly.
- 2:** Points to the upper housing (1).
- 3:** Points to a mesh filter (2).
- 4:** Points to the lower housing (3).
- 5:** Points to the lower housing (3).
- 6:** Points to the lower housing (3).
- 7:** Points to the lower housing (3).
- 8:** Points to the lower housing (3).
- 9:** Points to the lower housing (3).
- 10:** Points to the lower housing (3).
- 11:** Points to the lower housing (3).
- 12:** Points to the lower housing (3).
- 13:** Points to the lower housing (3).
- 14:** Points to the lower housing (3).
- 15:** Points to the lower housing (3).
- 16:** Points to the lower housing (3).
- 17:** Points to the lower housing (3).
- 18:** Points to the lower housing (3).
- 19:** Points to the lower housing (3).
- 20:** Points to the lower housing (3).
- 21:** Points to the lower housing (3).
- 22:** Points to the lower housing (3).

Letters A, Z, Z1, and X indicate specific features or assembly points:

- A:** Points to the lower housing (3).
- Z:** Points to the upper housing (1).
- Z1:** Points to the upper housing (1).
- X:** Points to the lower housing (3).

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Tank cover and fresh water tank

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Pos.	Item no.	Spare part
1	400.750	Cover 2-hole smoke transparent with filter/seal
3	400.766A	Air filter cpl. rustproof black
4	420.723	RA400 Seal for Cover (Tank)
5	530.765	Clean Water Tank Cover Compl
6	530.758	Cover For Fresh Water Tank
7	490.750	Holding rope ø3 x 500mm
11	400.722	Fresh Water Membrane Tank
12	400.721	Tank
13	400.725	Suction hose cpl.
14	P541I	Elbow nipple WES 6 / R1 / 4
15	400.261B	Hose ø 8 / 6 x 0.1m
16	P528	Fresh water filter processed
17	P097B	Sealing shim ø35/17/2 EPDM
18	400.724	Fitting SW22 R3/8 Inch
19	P097	Sealing shim 30/17/2 PE
20	P535B	Nut 3/8 Ms
21	P523G	Hex nut M 12x1

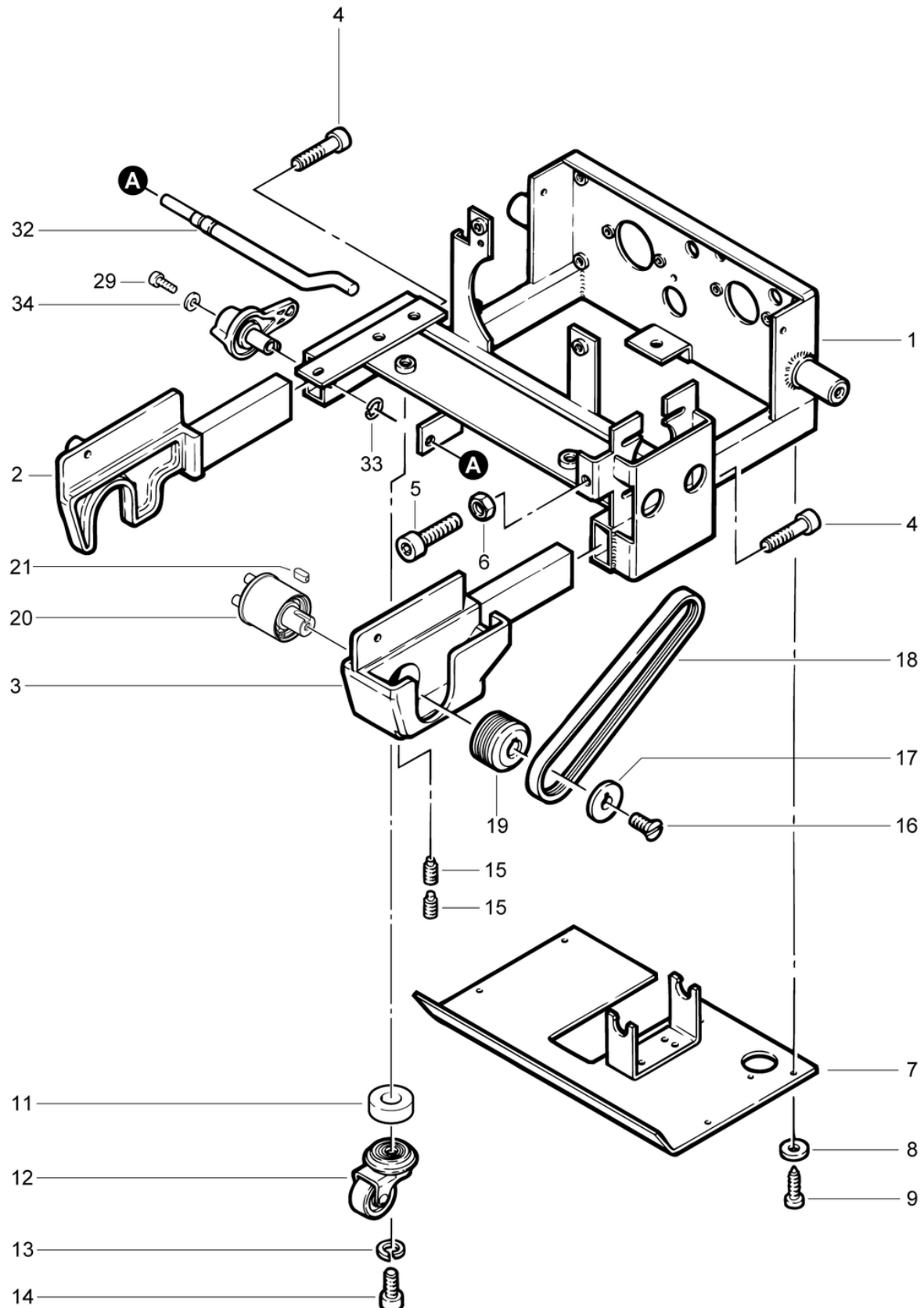
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Chassis

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Chassis

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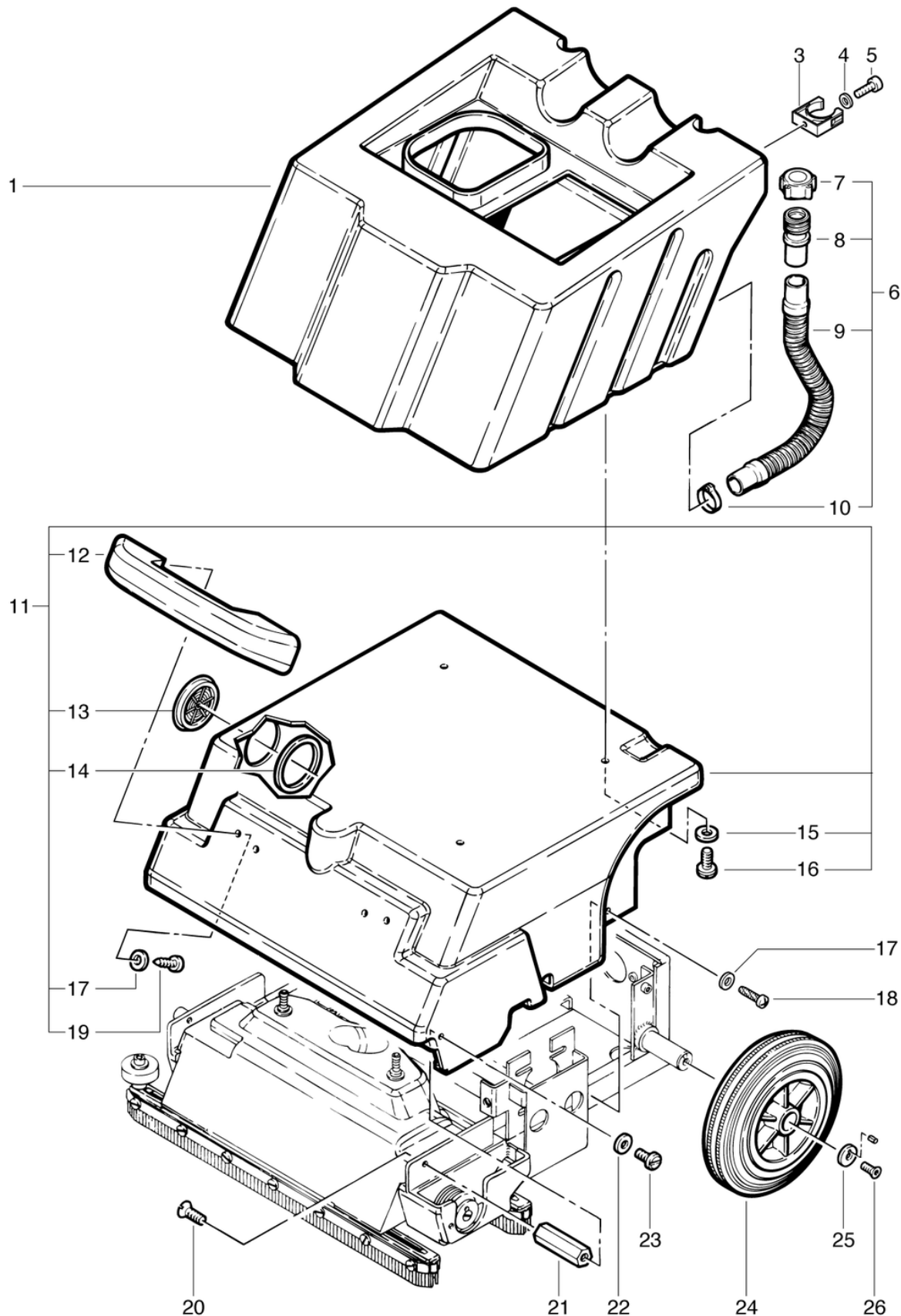
Pos.	Item no.	Spare part
1	400.110	Chassis
2	400.114	Right rail holder machined
3	400.113	Left rail holder maschined
4	P486T	Screw DIN 912 M6 x 25
5	P487D	Screw DIN 912 M8 x 25
7	400.800	Bottom plate compl.
8	P497B	Shim DIN 9021 M3 3,2/9/0,8 A2
9	P483G	Screw DIN 7981 C 2,9 x 9,5
11	440.491	Distance Piece
12	480.388	Castor
13	P498N	Ring DIN 127 B M8 8,1/14,8/2
15	P482Z	Pin DIN 914 M5 x 5 A2
16	P487U	Screw DIN 7991 M6 x 12
17	P499	Mounting plate 30 x 3 kpl.
18	420.425	Poly-V drive belt
19	400.415	Pulley ø 42 x 22mm
20	400.405	Brush axle complete
21	400.420	Wedge
29	P488D	Screw DIN 912 M4 x 8
32	401.140	Swivel lever
34	P496H	Shim DIN 125 A M5 5,3/10/1

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Tank and chassis cover

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Tank and chassis cover

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Pos.	Item no.	Spare part
1	400.721	Tank
3	P109A	Hose holder anthracite
4	P497G	Washer DIN 125 A M5 5,3/10/1 A2
5	P488B	Screw DIN 912 M5 x 12 A2
6	400.740	Discharge Hose Complete
7	432.110	Cover for Execution
8	500.409A	Hose sleeve 45 x 25 x 80mm
9	400.741	Discharge Hose
10	P553R	Hose clamp 039.6-706R
11	400.714	Chassis cover including items 12-17+19
12	077.560	Hopper handle anthracite grey
13	P030L	Ventilation grille round Ø 43mm black
14	400.713	Ring
15	P496L	Shim DIN 9021 M6 6,4/18/1,6
16	P475T	Screw DIN 85 A M6 x 12
17	P496G	Shim DIN 9021 M5 5,3/15/1,2
18	P482L	Screw DBN 1014 4,8 x 13
19	P516Q	Screw WN 1452 K50 x 18
20	P480B	Screw DIN 963 M5 x 10 A2
21	400.118	Distance bolt SW12 x 45mm
22	P497E	Shim DIN 9021 M5 5,3/15/1,2 A2
23	P475I	Screw DIN 85 A M5 x 12 A2
24	500.249	- wheel Ø 200x53
25	P499	Mounting plate 30 x 3 kpl.
26	P487U	Screw DIN 7991 M6 x 12

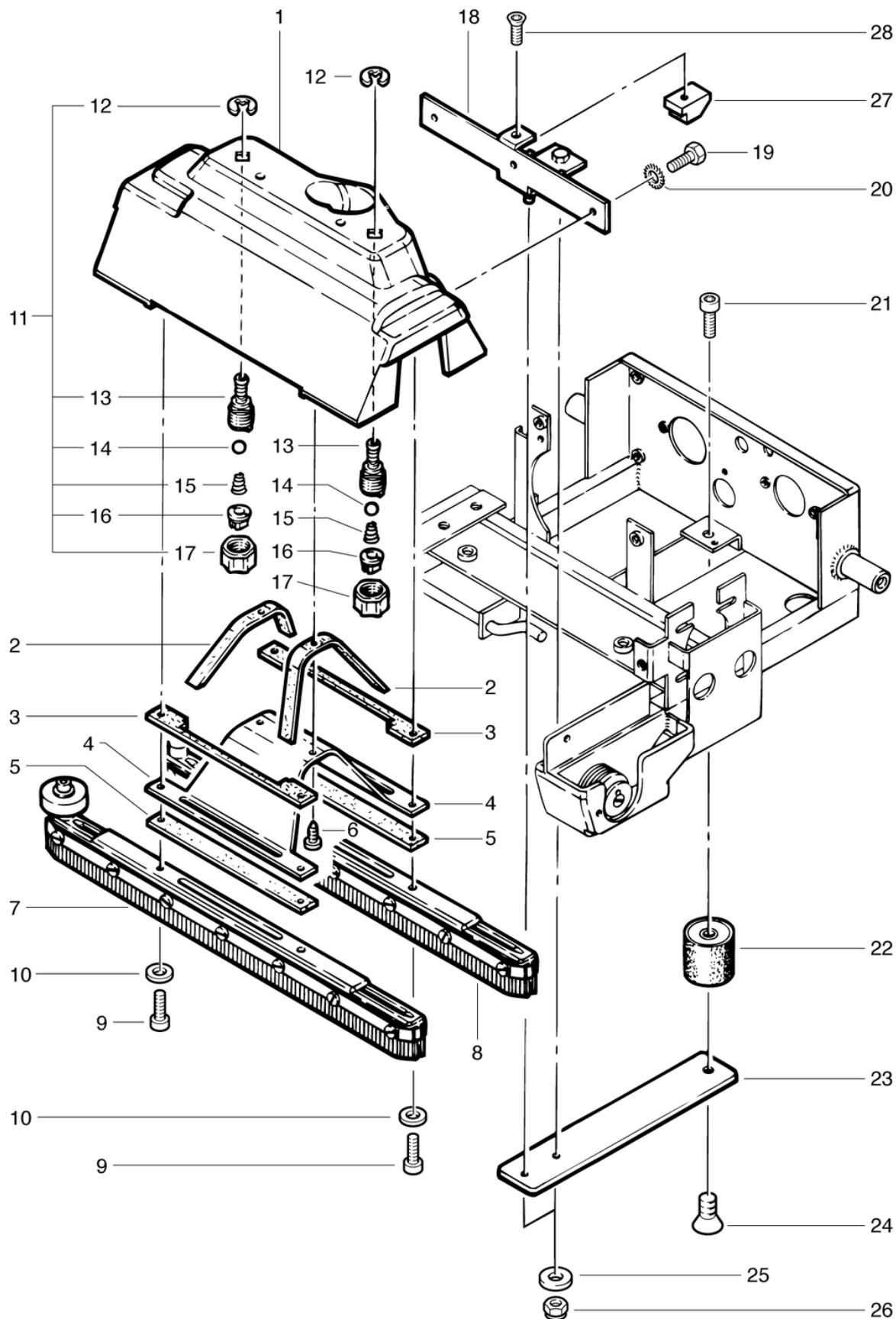
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Suction nozzle

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Suction nozzle

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Pos.	Item no.	Spare part
1	400.510	Suction Nozzle
2	400.561	Top seal 200 x 10 x 3mm
3	400.561A	Top seal 190 x 18 x 3mm
4	400.560	Cover plate 219.6 x 190 x 2mm
5	400.563	Bottom seal 190 x 18 x 3mm
6	P489D	Screw DIN 7984 M4 x 10 A2
7	400.520	RA400 Front Suction Nozzle
8	400.530	RA400 Rear Suction Nozzle
9	P488F	Screw DIN 912 M5 x 14 A2
10	P497G	Washer DIN 125 A M5 5,3/10/1 A2
11	440.550	Spraying nozzle complete including
12	P499N	Shim DIN 6799 9/18,8/1,1 A2
13	P602E	Nozzle holder
14	P172W	Ball ø7.14 for spray nozzle PA6.6
15	P444E	Compression spring 0.5/10.1;7/12
16	P602N	Yellow spray nozzle
17	P602D	Union nut 3/8
18	400.394	Nozzle holder
19	P470H	Screw DIN 933 M5 x 12
20	P498D	Washer DIN 6798 M5 5,1/9/0,5 A2
21	P487C	Cyl. I-6kt o shaft M4 x 16 St 8.8 black
22	400.393	Round buffer
23	400.395	Arch 252x45x5 mm
24	P479R	Screw DIN 7991 M8 x 12
25	P496G	Shim DIN 9021 M5 5,3/15/1,2
26	P493G	Nut DIN 985 M5
27	411.391	Glider
28	P480C	Screw DIN 963 M4 x 8 A2

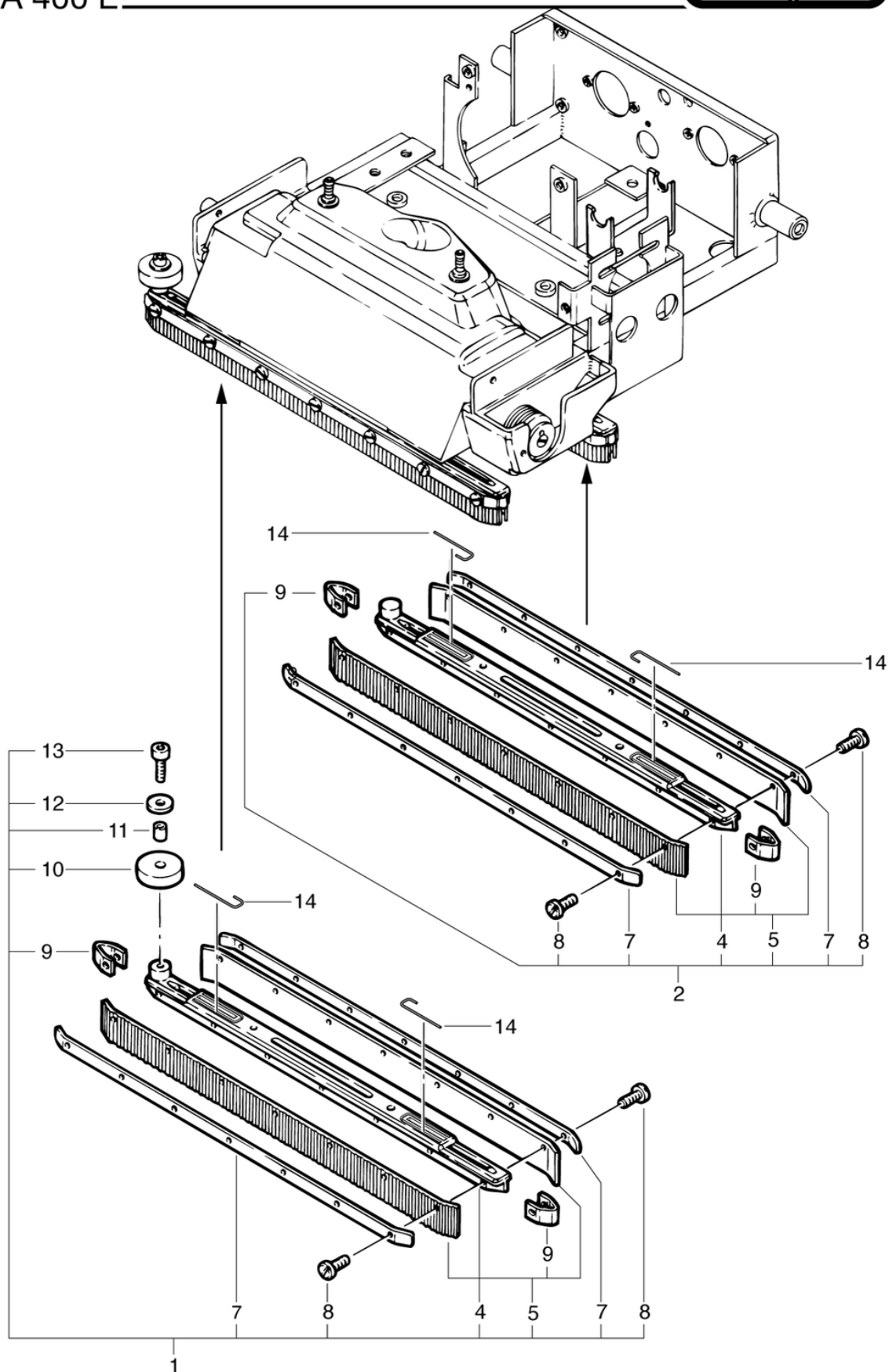
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Front suction nozzle

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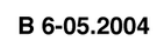
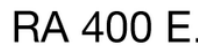
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Front suction nozzle

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Pos.	Item no.	Spare part
1	400.520	RA400 Front Suction Nozzle
2	400.530	RA400 Rear Suction Nozzle
4	400.538	RA400 Water suction nozzle
5	400.050	Squeegee Set cpl.
7	400.534	Holding plate
8	P475V	Screw DIN 85 A M4 x 10 A2
9	400.535	Edge protector 50 / 10 x 1mm
10	400.521	Deflector roll 40 x 10
11	400.522	Spacer sleeve 8 / 5.5 x 10.5mm
12	P497E	Shim DIN 9021 M5 5,3/15/1,2 A2
13	P488G	Screw DIN 912 M5 x 16 A2
14	400.505	Sealing String

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Pump assembling

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Pos.	Item no.	Spare part
1	P812	NDS-C Pump 230V/50Hz
2	P207A	Grommet
3	400.261A	Hose ø 8 / 6 x 0.17m
4	400.262	Pressure hose ø 8 / 6 x 0.34m
5	400.261	Pressure hose ø 8 / 6 x 0.12m
6	400.341	Ansaugschlauch ø 8 / 6 x 0,21m
7	900.162A	Compression spring 0.8 / 9.5 / 120
8	P542D	Y-piece 6mm
9	400.342	Double nipple
10	P535I	Nut SW15 / G1 / 8 x 4 Ms
11	P171C	3mm
12	P171B	8mm
13	P171A	Cover Ø25,5mm

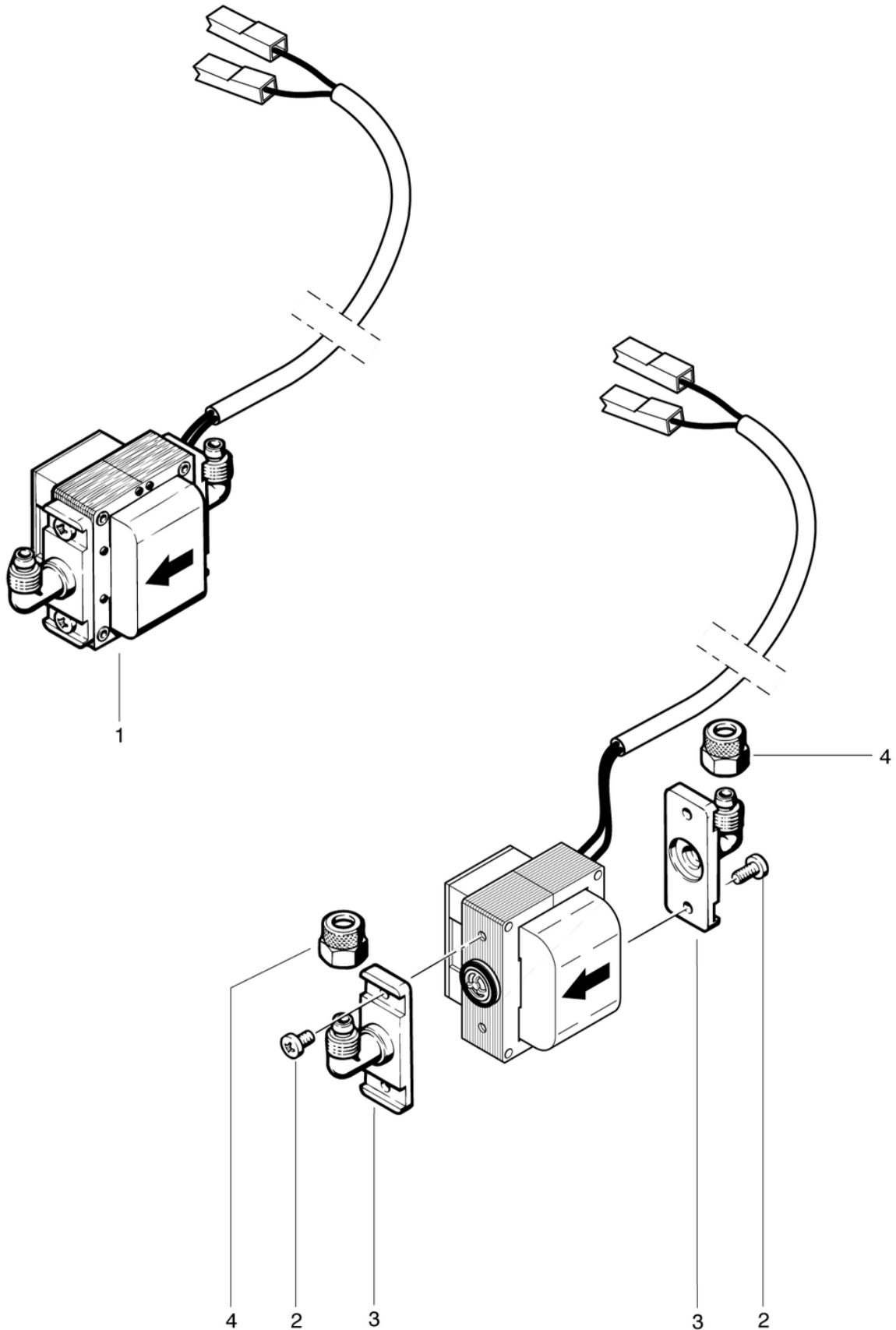
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Pompe

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Pompe

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Pos.	Item no.	Spare part
1	P812	NDS-C Pump 230V/50Hz
2	P481M	Screw DIN 7985 M4 x 10 A2
3	P810M	Angled fitting NW 6
4	P523G	Hex nut M 12x1

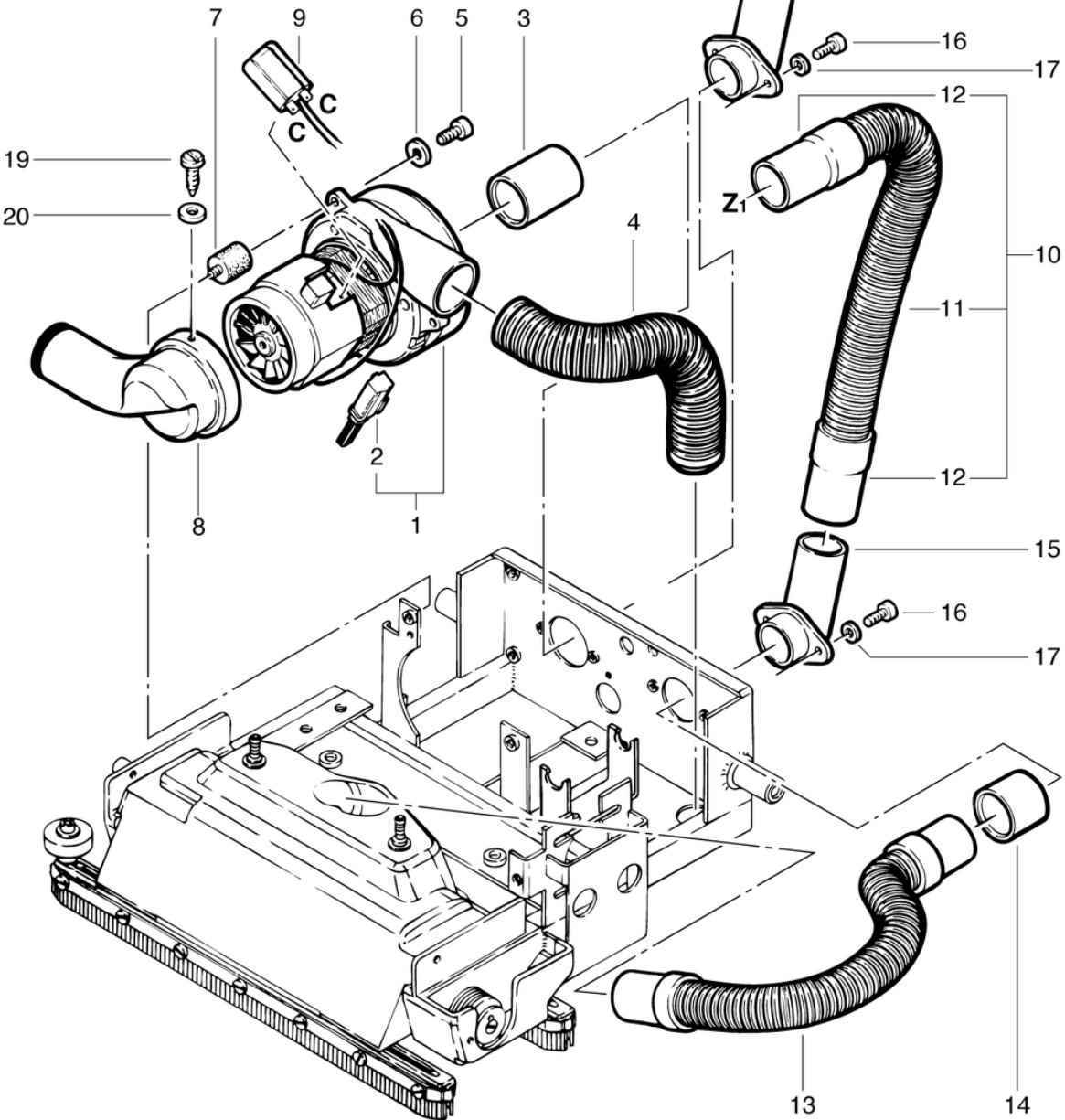
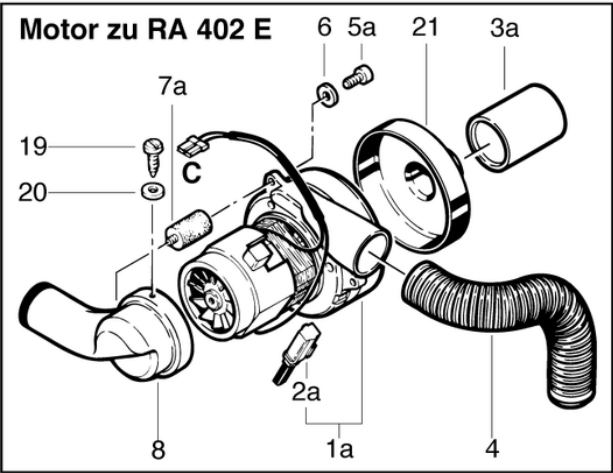
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Suction motor

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Suction motor

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Pos.	Item no.	Spare part
1a	420.210	Suction fan 230V 50/60 Hz 1200W
1	400.211	Suction motor 230 V / 50-60 Hz, 800 W
2a	P870KH	Pair of carbon brushes LAMB
2	P870V	
3a	420.212	Connection Piece
3	400.215	Connection Piece
4	400.227	Isolation hose 0.28m
5a	P486R	Screw DIN 912 M6 x 16
5	P486Q	Screw DIN 912 M6 x 12 A2
7a	400.214	Round buffer M6 x 8 l-thread, ø 20 x 30
7	400.217	Round buffer M6 x 8, ø 20 x 25
8	400.354	Tube for motor cooling
9	P387C	15uF
10	400.770	RA400E Hose Complete
11	400.772	Hose 40/33x310
12	P575B	Connection sleeve 32
13	500.408A	Suction Hose NW 32x540mm
14	400.224	Sleeve
15	420.220	Connection piece
16	P486A	Screw DIN 912 M4 x 12
17	P496C	Shim DIN 9021 M4 4,3/12/1
19	P483H	Screw DIN 7981 C 2,9 x 6,5 A2
20	P497B	Shim DIN 9021 M3 3,2/9/0,8 A2
21	500.445	Suction port cap shortened

Brush motor



This exploded view diagram illustrates the assembly of a vacuum cleaner motor unit. The components are numbered 1 through 40, with some parts having multiple instances. Key sub-assemblies are labeled A, B, C, D, and F.

- Motor and Drive Components:** The central motor (1) is connected to a drive shaft (2) with a pin (3) and a pulley (4). A timing belt (5) is shown around the pulley and a larger pulley (6) on the motor shaft. A drive pulley (7) is also present.
- Electrical and Control Components:** A power cord (12) with a plug (13) is connected to a switch assembly (8) and a control unit (9). A separate cable (10) is also shown. A fuse or thermal protector (11) is part of the electrical assembly.
- Structural and Mounting Components:** The motor is mounted on a base plate (14) using screws (15) and washers (16). A mounting bracket (17) is used to secure the motor to the main housing (18). A screw (19) is used to attach the motor to the housing.
- Internal and External Components:** A fan (20) is mounted on the motor shaft. A brush roll (21) is shown at the bottom, connected to a drive shaft (22) and a pin (23). A roller (24) is also present. A bracket (25) is used to mount the motor to the housing. A screw (26) is used to secure the bracket. A bracket (27) is also shown. A screw (28) is used to secure the bracket. A bracket (29) is also shown. A screw (30) is used to secure the bracket. A bracket (31) is also shown. A screw (32) is used to secure the bracket. A bracket (33) is also shown. A screw (34) is used to secure the bracket. A bracket (35) is also shown. A screw (36) is used to secure the bracket. A bracket (37) is also shown. A screw (38) is used to secure the bracket. A bracket (39) is also shown. A screw (40) is used to secure the bracket.
- Labels and Connections:** Labels A, B, C, D, and F indicate specific connection points or components. Label A points to a cable connector. Label B points to a bracket. Label C points to a cable. Label D points to a bracket. Label F points to a screw.

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Brush motor

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Pos.	Item no.	Spare part
1	400.281	Brush motor 230 V /50 Hz 370 W cpl.
2	400.281A	Brush motor 230 V /50 Hz 370 W
3	P484Y	Threaded pin Stift DIN 915 M6 x 10
4	400.284	Drive Pulley
6	400.291	Motor Holder plate
8	P379A	Terminal box cover
9	400.640	Motor cable harness 0,75mm2
10	P383E	7P. 2.5mm2
11	P516S	Screw WN 1452 K30 x 14
12	400.310S	Cable harness bumper 7 x 0.75mm2
13	P408K	Rabber clamp DA 11/14/3
15	P486I	Screw DIN 7984 M5 x 16 galvanized
16	P496G	Shim DIN 9021 M5 5,3/15/1,2
17	P478L	Screw DIN 84 M4 x 20 Ms
18	P498A	Ring DIN 127 B M4 4,1/7,6/0,9 CuSn
19	P491Q	Nut DIN 934 M4 brass
20	400.470	Roller brush 330mm black compl.
22	P316D	Deep groove ball bearing 6201 2RSR ø32 / 12 x 10
23	400.478	Centrepin 8 x 28mm
25	400.350	Weight
26	P385C	Capacitor 16uF, 450VAC
27	400.138	Holder cpl.
28	P484Z	Screw DIN 7981 4,2 x 16
29	P497P	Shim DIN 1440 8/16/2
30	P498N	Ring DIN 127 B M8 8,1/14,8/2
31	P487I	Screw DIN 912 M8 x 40
32	400.450	Brush Support Complete
33	400.465	Brush support
34	P479T	Screw DIN 965 M6 x 60
35	P498X	Shim 14,6/18,7/0,15
36	400.461	Support
37	P496L	Shim DIN 9021 M6 6,4/18/1,6
38	P492K	Nut DIN 985 M6 A2
39	P497E	Shim DIN 9021 M5 5,3/15/1,2 A2
40	400.475	Special Screw 18x20

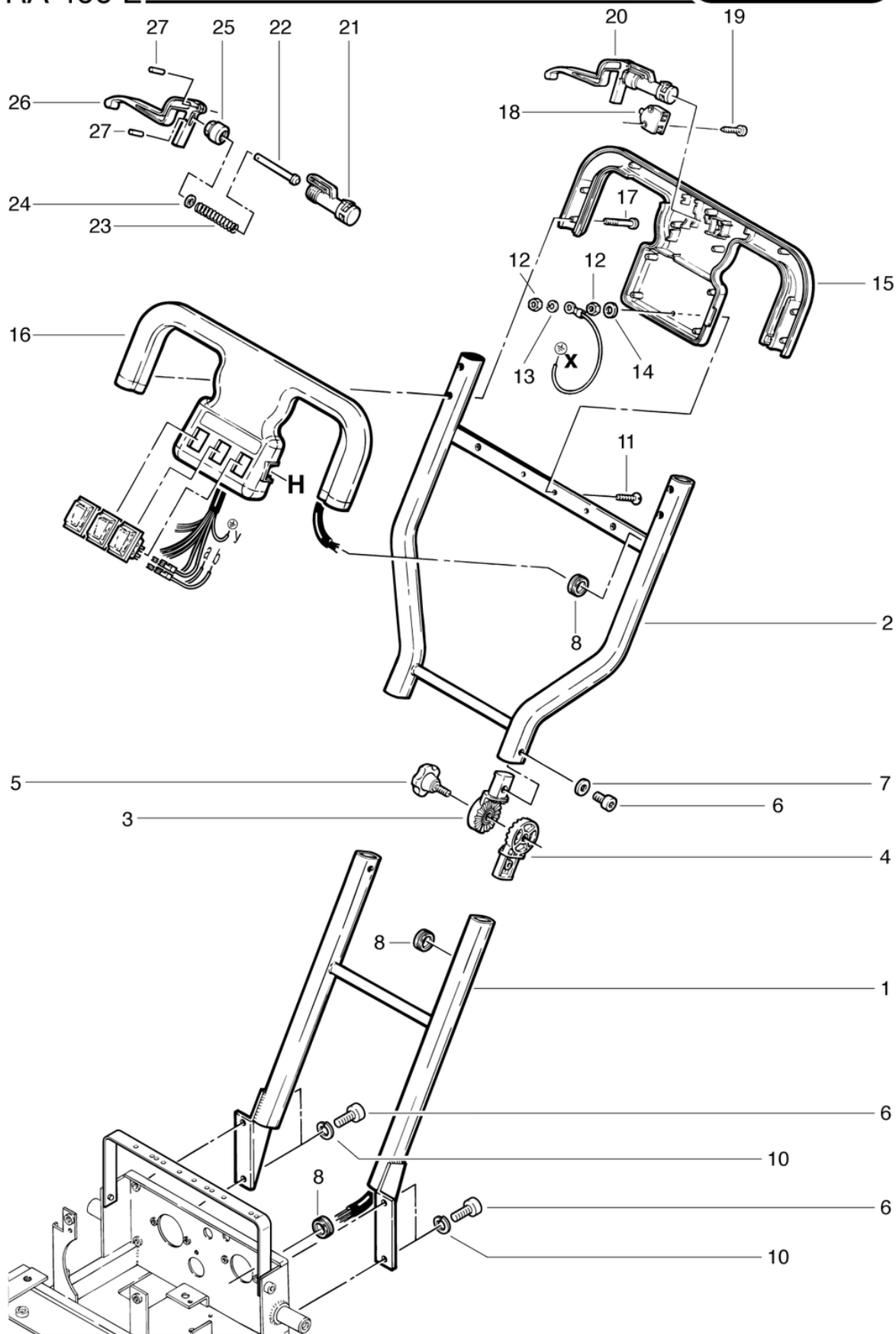
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Lower pushbar

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Lower pushbar

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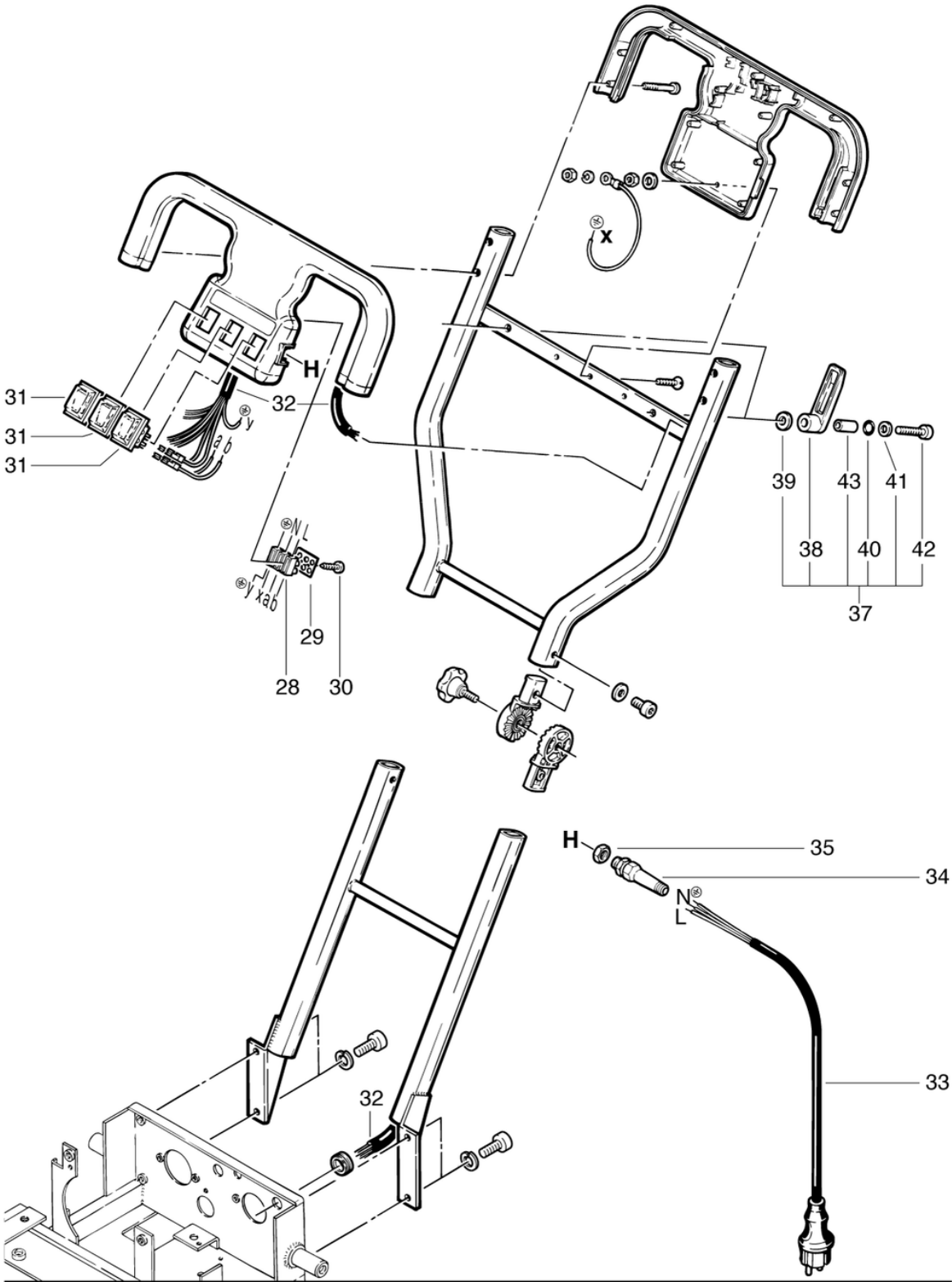
Pos.	Item no.	Spare part
1	400.652	Lower pushbar
2	420.650	Bumper upper part
3	420.601	Upper Joint
4	420.602	Lower Joint
5	P253	Star grip Ø39.5 M6 x 25
6	P486Q	Screw DIN 912 M6 x 12 A2
8	P207A	Grommet
10	P498U	Ring DIN 127 B M6 6,1/11,8/1,6 A2
11	P481E	Screw DIN 963 M4 x 14 Ms
12	P491Q	Nut DIN 934 M4 brass
13	P498A	Ring DIN 127 B M4 4,1/7,6/0,9 CuSn
14	P496C	Shim DIN 9021 M4 4,3/12/1
15	400.615	Lower Handle Housing
16	400.611	Upper Handle Housing
17	P516B	Screw WN 1452 K30 x 30
18	P242	Push button switch 1 Pole
19	P516E	Screw WN 1451 K30 x 20
20	400.620	Lever Complete
21	400.622	Valve Body
22	P681D	Valve pin compl.
23	P681E	Valve spring
24	P497G	Washer DIN 125 A M5 5,3/10/1 A2
25	P681B	Union nut
26	400.621	Valve Lever
27	P681K	Cylindrical pin 1,5/14,5

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Lower pushbar

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Lower pushbar

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Pos.	Item no.	Spare part
28	P383A	Screw terminal with DS 3-pol. 2.5mm2
29	P394	Marking plate 500 BZ 3 L,N,PE
30	P516S	Screw WN 1452 K30 x 14
31	P240	Rocker switch orange 230V
32	400.310S	Cable harness bumper 7 x 0.75mm2
33	P400B	Connector cable 680mm VDE, black
34	P279K	Cable gland PG9 with kink protection spiral
35	P279H	Lock nut PG9 brass nickel-plated
37	P087	Catch for cable black cpl.
38	P087A	Catch for cable black
39	P497H	Washer DIN 9021 M6 6,4/18/1,6 A2
40	P088	O-Ring 8,73/1,78 NBR
41	P497K	Washer DIN 125 A M6 6,4/12/1,6 A2
42	P488S	Screw DIN 912 M6 x 30 A2
43	P087B	Distance sleeve Ø8/6,2 x 18,8mm

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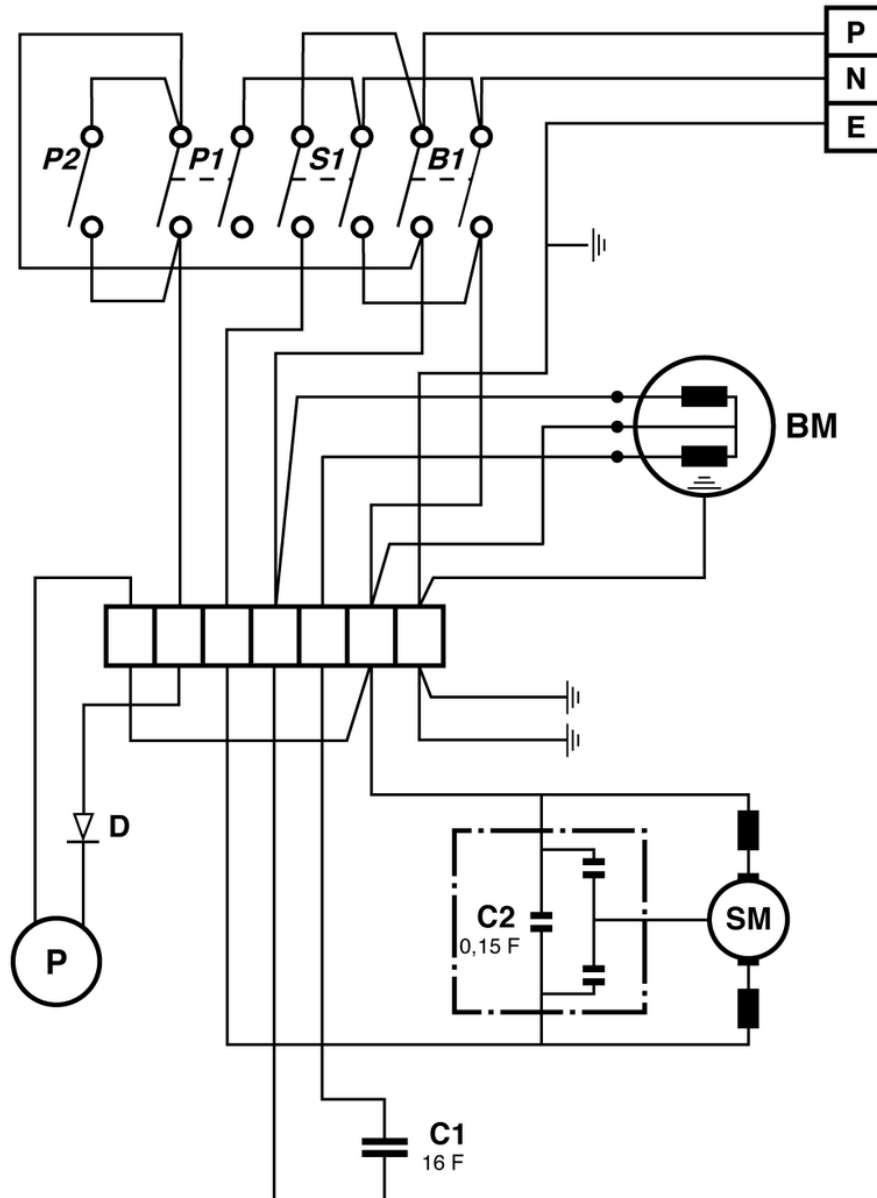
Wiring diagram

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Stromlaufplan RA 400 E



- P1 = Schalter Pumpe für Dauerbetrieb / Interrupteur pour pompe fonctionnement constante /
Main switch for continous functioning
- P2 = Schalter Pumpe für sporadischen Betrieb / Interrupteur pour pompe fonctionnement
interrupté / Main switch for interrupted fonctionning
- S1 = Schalter Saugmotor / Interrupteur pour moteur d'aspiration / Main switch for vacuum motor
- B1 = Schalter Bürstmotor / Interrupteur pour moteur de brosse / Main switch for brush motor
- C1 = Betriebskondensator 16 F / Kondensateur de marche 12 F / Working capacitor 12 F
- C2 = Entstörkondensator 0,15 F / Condensateur 0,15 F / Capacitor 0,15 F
- D = Diode
- BM = Bürstmotor / Moteur de brosse / Brush motor
- P = Pumpe / Pompe / Pump
- SM = Saugmotor / Moteur d'aspiration / Vacuum motor