

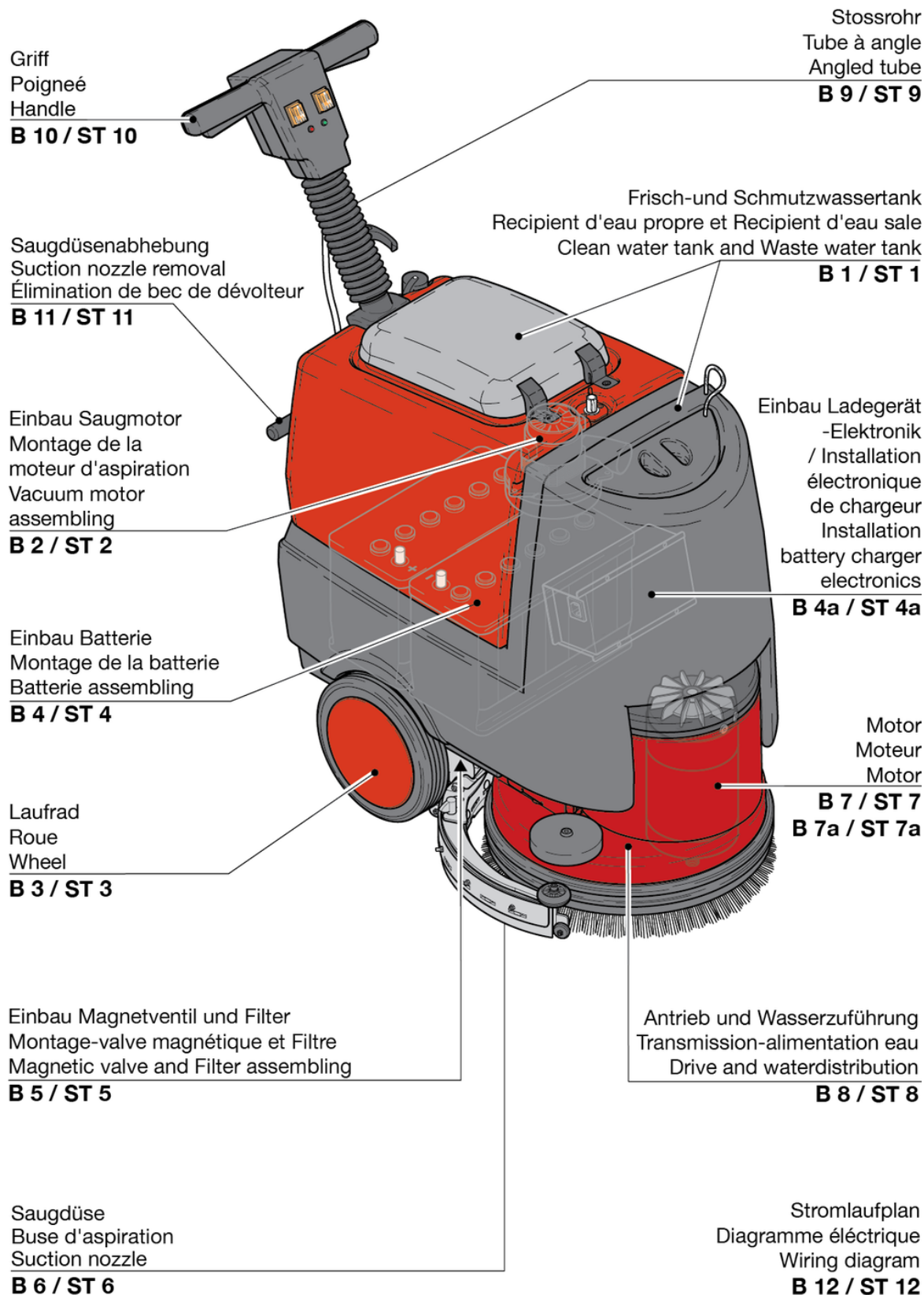
RA433 IBC

Contents

PDF created on: 16.07.2024 13:01



RA 433 IBC

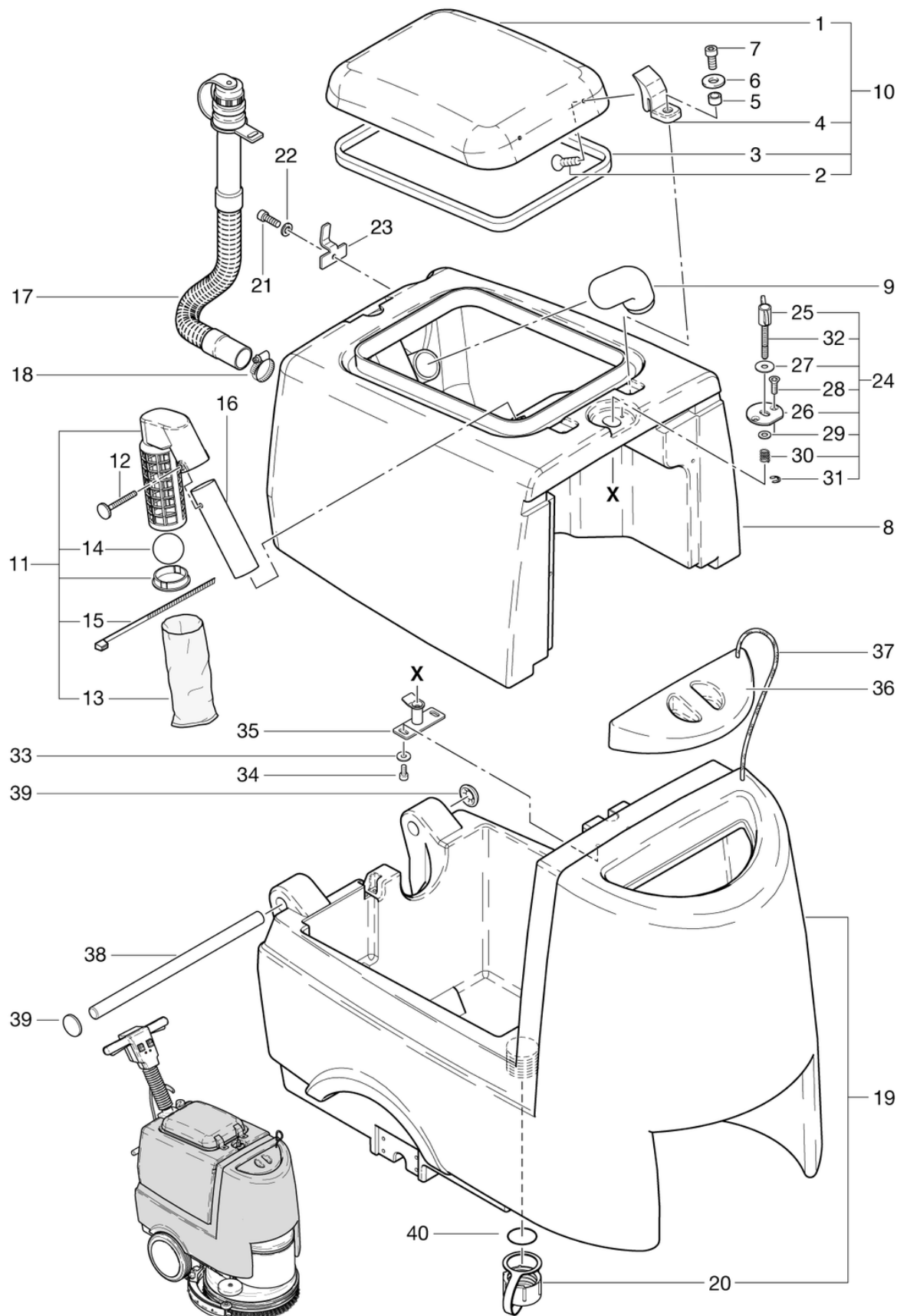


RA433 IBC

Clean water tank and Waste water tank

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RA 433 B/IBC



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Clean water tank and Waste water tank

Pos.	Item no.	Spare part
1	710.120	Cover of the dirty water tank processed transparently
2	P4800	Screw DIN 965 M4 x 8 A2
3	710.121	Cover seal EPDM black
4	710.122	Rubber Hinge
5	430.618	Distance ring $\varnothing 7/5 \times 5,5$
6	P497K	Washer DIN 125 A M6 6,4/12/1,6 A2
7	P488B	Screw DIN 912 M5 x 12 A2
8	436.200	Waste Tank RA431
9	560.674	Elbow connector $\varnothing 42 / 33$
10	470.468	Hood RA 431B / 430B vorm.
11	432.300	Float Basket Complete
13	432.315	Filter Bag
14	432.304	Ball $\varnothing 45$ mm
15	P609B	Cable tie weatherproof- 3,5 x 200
16	432.205	Suction Tube
17	P561	Drain hose with crimp sleeve 0.63m
18	P206D	Hose clamp 32-50mm/12
19	433.100	fresh water tank RA 433 B
20	432.110	Cover for Execution
22	P498D	Washer DIN 6798 M5 5,1/9/0,5 A2
23	P109G	Hose holder
24	436.225	Fastener Complete
25	P174	Wing nut M8 IG
26	436.221	Washer
27	P497T	Shim DIN 9021 M8 8,4/24/2 A2
28	P480PA	Screw DIN 7991 M5 x 8 A2
29	P496P	Washer DIN 125 A M8 8,4/16/1,6 A2
30	436.228	Compression spring DIN 2095 0.8 / 10.8 / 30
31	P500K	Washer DIN 6799 6/12/0,7 A2
32	436.226	Shaft
33	P497E	Shim DIN 9021 M5 5,3/15/1,2 A2
34	P481Z	Screw DIN 7985 M5 x 10 A2
35	432.407	Tank Adjustment
36	432.115	Clean Water Cover
37	432.750	Holding rope $\varnothing 3 \times 260$ mm
38	436.220	joint rod
39	P499L	Ring Starlock 12 A2 with cap
40	500.411	Seal for cover

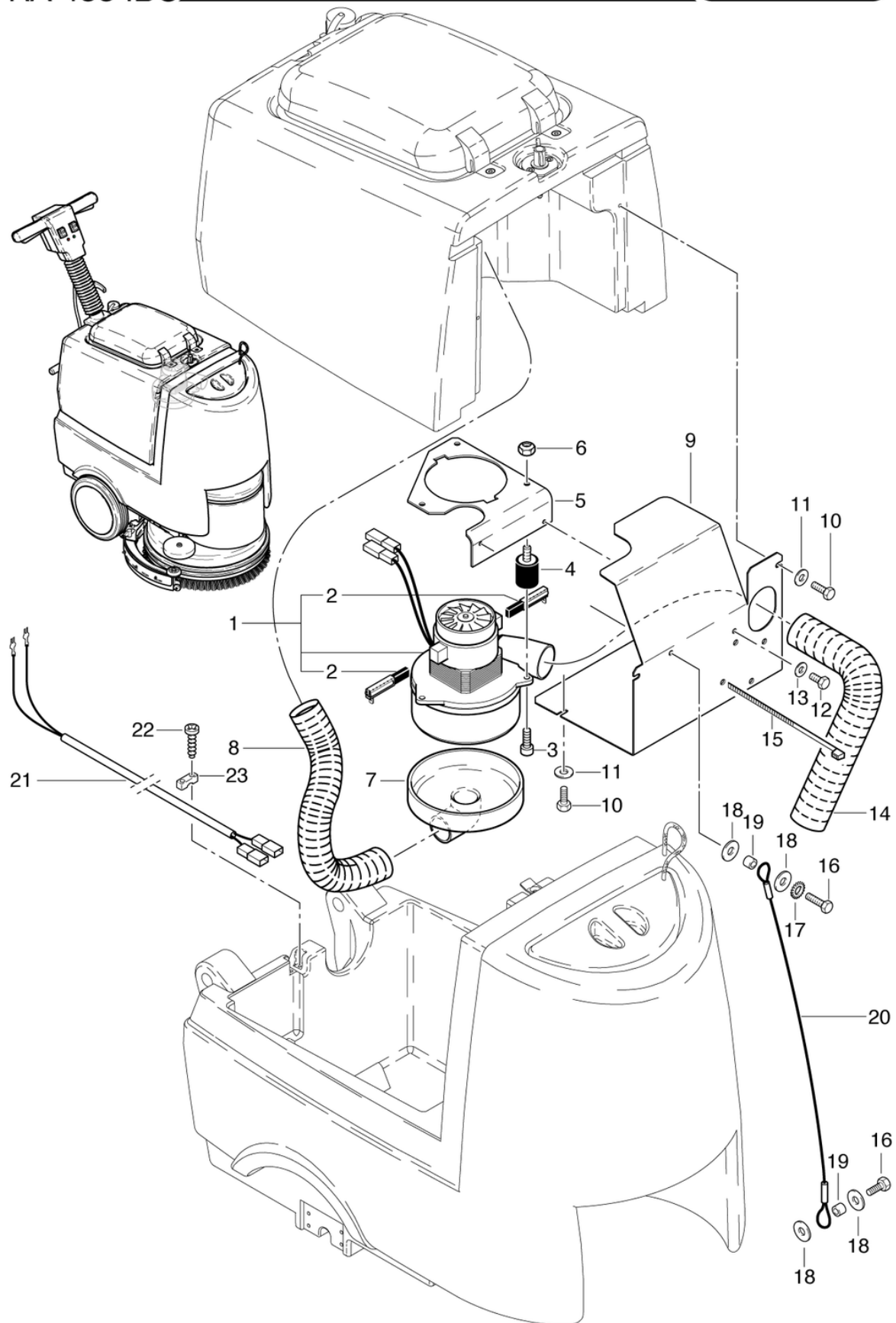
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Vacuum motor assembling

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Vacuum motor assembling

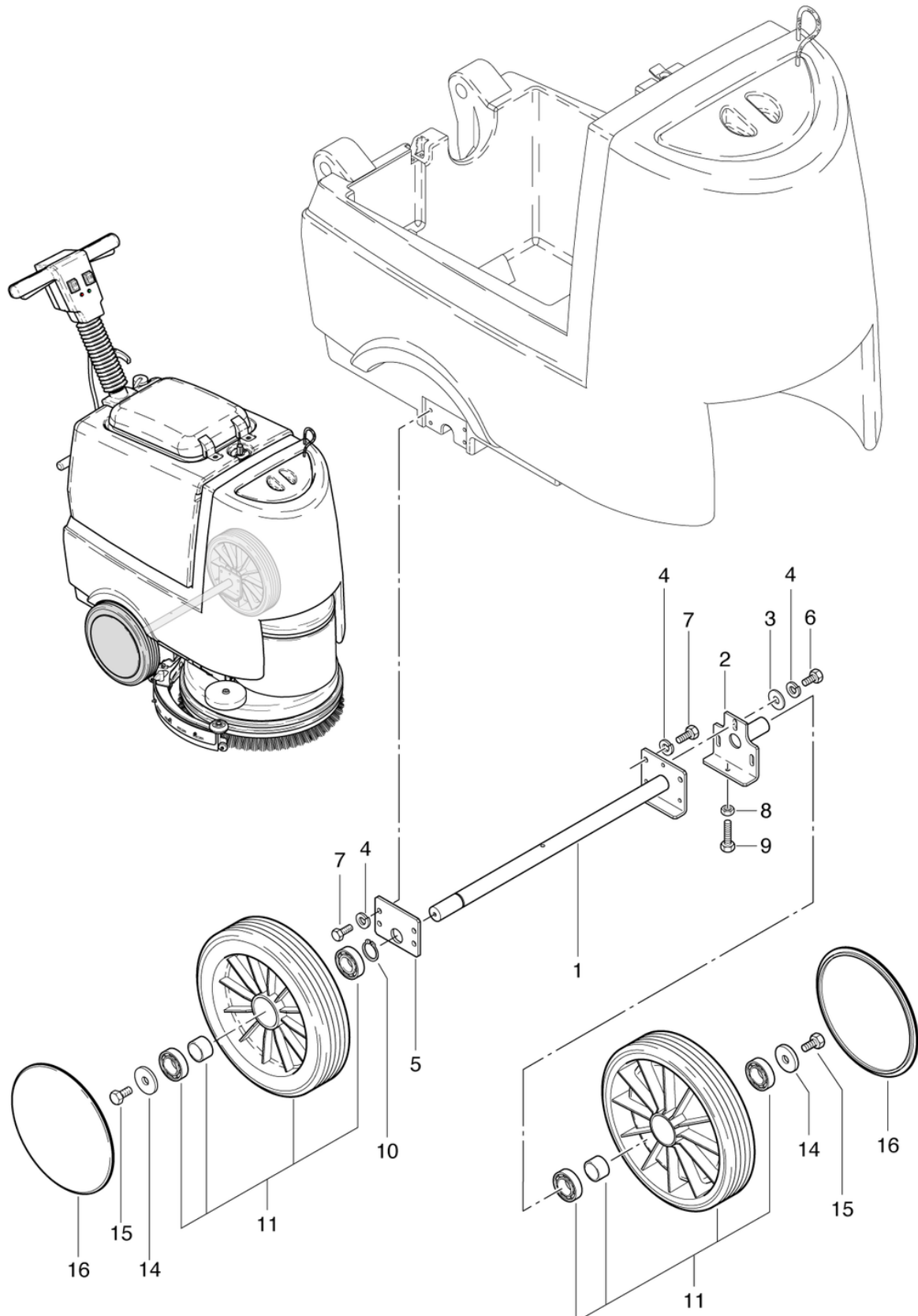
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Pos.	Item no.	Spare part
1	440.206	Suction Motor- 24 V / 400W
2	P870KB	Carbon brushes (pair) OEP
3	P486Q	Screw DIN 912 M6 x 12 A2
4	400.217	Round buffer M6 x 8, ø 20 x 25
5	436.355	Motor support
6	P493K	Nut DIN 985 M6
7	470.490	Hose Connection Cap
8	436.353	Hose RA430
9	436.354	Cover
10	P471Z	Screw DIN 933 M6 x 10 A2
11	P496L	Shim DIN 9021 M6 6,4/18/1,6
12	P470T	Screw DIN 933 M6 x 16
13	P497K	Washer DIN 125 A M6 6,4/12/1,6 A2
14	470.488	Drain hose
15	P424	Cable tie black 4.8 x 300mm
17	P499D	Shim DIN 6798 M6 6,4/11/0,7 A2
18	P510L	Washer DIN 522 M6 6,4/25/1,5 A2
19	742.129	Distance ring ø 8 / 6 x 4
20	436.447	Lift Cable 501B
21	436.357	Cable harness suction fan L=1,785m
22	P476E	Screw DIN 7985 M5 x 16 A2
23	4611085	Cable Clamp

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Wheel

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Pos.	Item no.	Spare part
1	436.064A	axle rustproof
2	432.061A	Drive axle rustproof
3	P496L	Shim DIN 9021 M6 6,4/18/1,6
4	P498U	Ring DIN 127 B M6 6,1/11,8/1,6 A2
5	432.062A	right sheet rust-proof
6	P471Z	Screw DIN 933 M6 x 10 A2
7	P470T	Screw DIN 933 M6 x 16
8	P490D	Nut DIN 934 M6
9	P470X	Screw DIN 933 M6 x 20
10	P513EA	Ring DIN 471 20/1,2 A2
11	530.240	wheel ø226 x 53 including bearings
14	P499	Mounting plate 30 x 3 kpl.
15	P470R	Screw DIN 933 M6 x 12
16	530.242	Wheel Cover Red

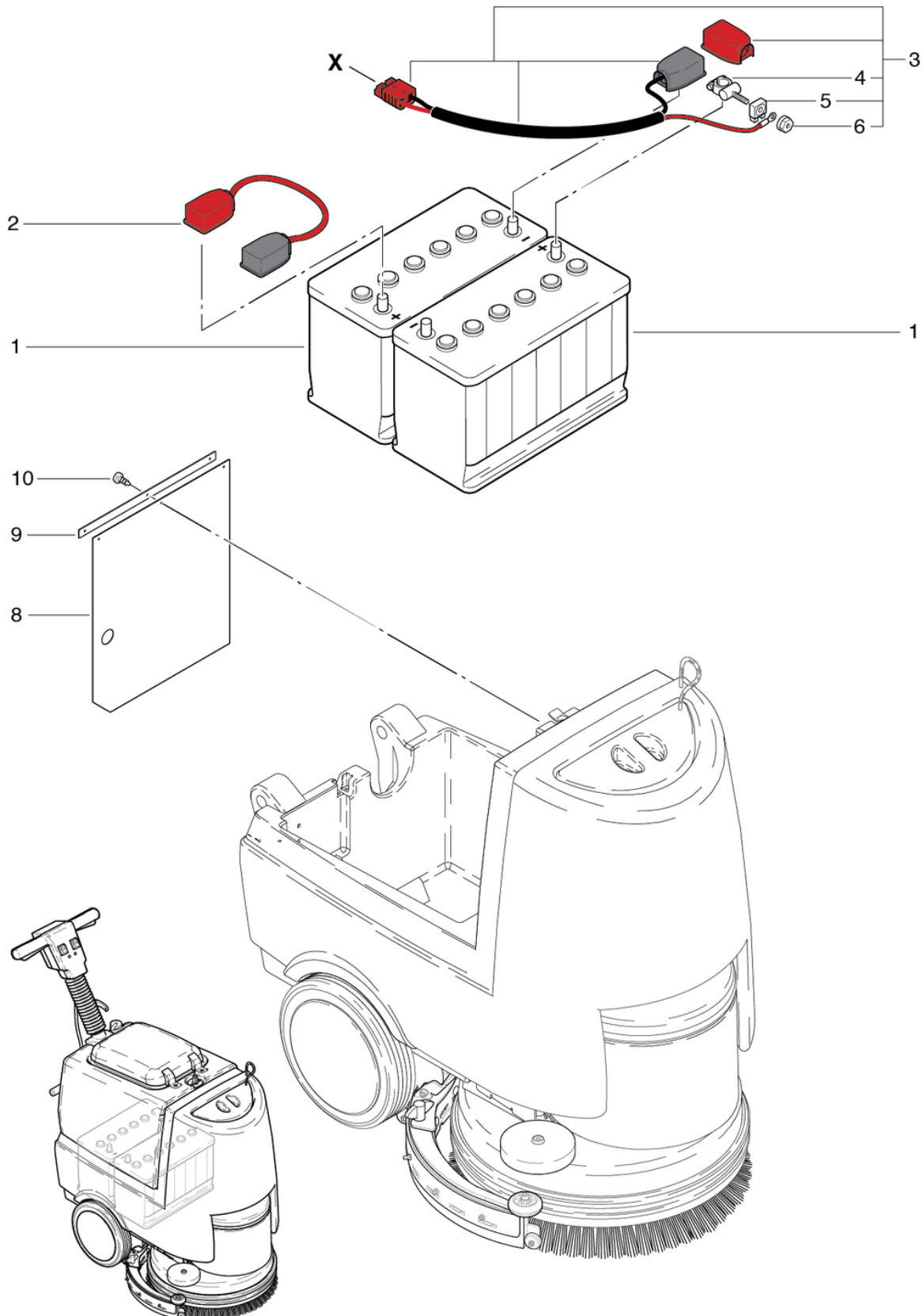
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Batterie assembling

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Batterie assembling

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Pos.	Item no.	Spare part
1	500.092	Set of 2 gel batteries à 12 V/85 Ah (C5) Eternity
2	436.985	Battery connection wire 10mm2, L = 0.16m
3	436.983	Battery Cable Tree
4	P357E	Battery clamp 1 pole
5	560.710	Fuse CF8, 75A
6	710.353	Insulating Nut
8	436.625	Electronic protection lug
9	436.624A	rail rustproof
10	P483H	Screw DIN 7981 C 2,9 x 6,5 A2

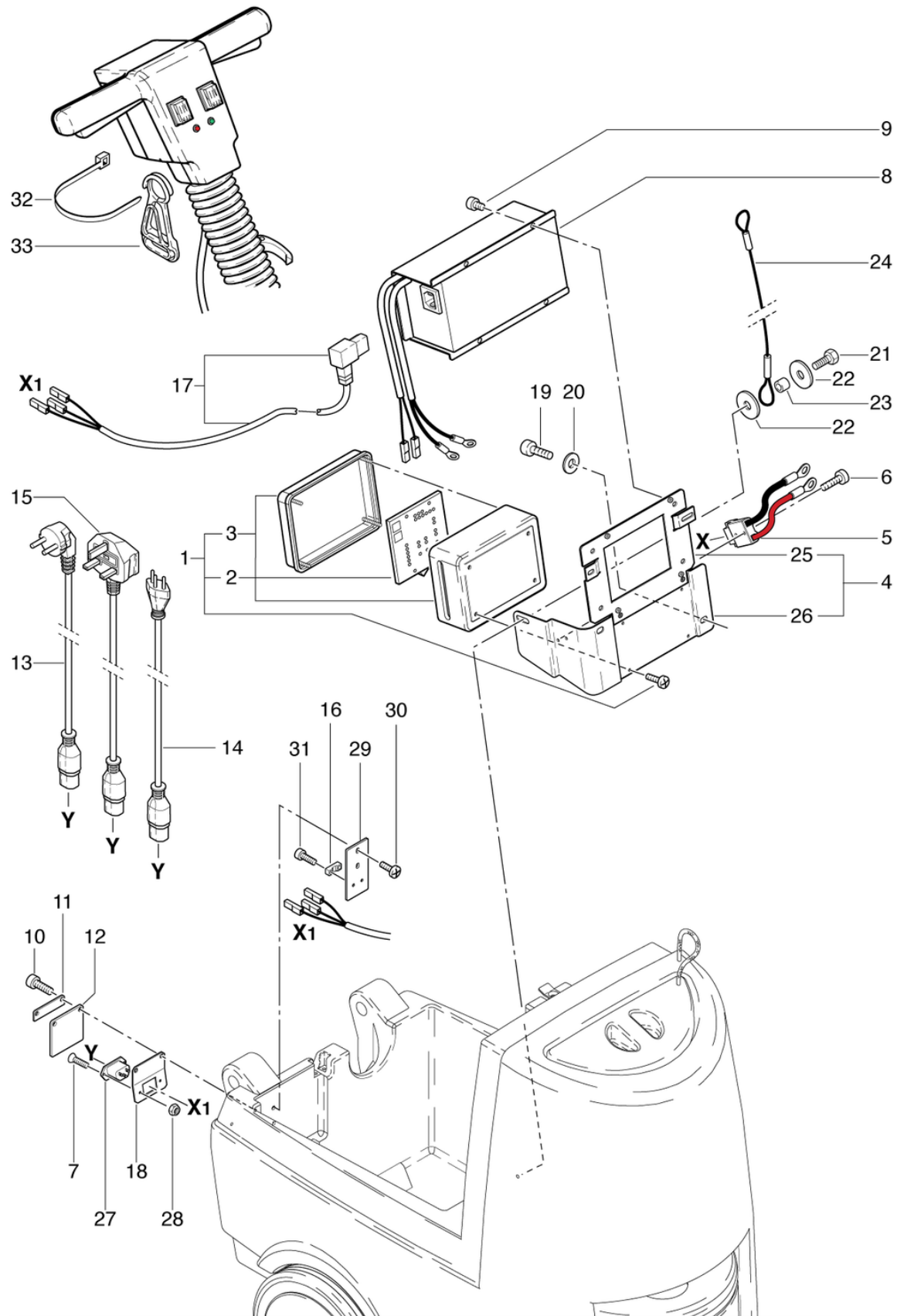
RA433 IBC

Installation battery charger electronics

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RA 433 IBC



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Installation battery charger electronics

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Pos.	Item no.	Spare part
1	436.770B	electronicboard V3.0 incl.case
2	436.776B	Electronic V3.0
3	436.774	El. box Cleanfix
4	436.053	Spring
5	436.713	Load Plug Wiring Harness
6	P475F	Screw DIN 85 A M4 x 20 A2
7	P479VZ	Screw DIN 965 A M3 x 8 A2
8	436.050	Battery charger 24V/12A
9	P477	Screw DIN 912 M3 x 14
10	P488B	Screw DIN 912 M5 x 12 A2
11	436.623	Attachment Sheet Metal
12	560.622	plug cover
13	436.790	Main cable VDE 3 x 1.00mm ² , black
14	436.791	Cable SEV 3 x 1,00mm ² , black, 2.50m
15	436.792	Connection cable GB 3 x 1,00mm ² , black
16	4611085	Cable Clamp
17	436.796	Cable harness charger
18	438.801	Holder
19	P486YC	Screw DIN 912 M6 x 10 A2
20	P496H	Shim DIN 125 A M5 5,3/10/1
21	P470T	Screw DIN 933 M6 x 16
23	742.129	Distance ring ø 8 / 6 x 4
24	436.447	Lift Cable 501B
25	436.051	Girder sheet metal
26	436.773	Carrier control box
27	438.802	Plug
28	P493C	Nut DIN 985 M3 A2
29	436.775	Retaining plate
30	P481Z	Screw DIN 7985 M5 x 10 A2
31	P488F	Screw DIN 912 M5 x 14 A2
32	P609	Cable tie black 4,8 x 178mm
33	P375	Cable assembly discharge

Magnetic valve and Filter assembling

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Magnetic valve and Filter assembling

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Pos.	Item no.	Spare part
1	433.113A	brush head holder left rustproof
2	433.114A	brush head holder right rustproof
3	P486QA	Screw DIN 912 M6 x 14 A2
4a	430.258	Cover to fresh water filter 1/2" + 3/8"
4b	430.759A	Filter Assembly
4c	430.759B	Filter sieve
4	430.759	Fresh water filter 1/2"-1/2" mesh 40
5	432.091	Elbow connector
6	P258	Magnetic valve 24V
7	436.709	Cable For Magnetic Valve
8	433.130	Hose 0,52m
9	433.133	filter holder plate
10	P488E	Screw DIN 912 M5 x 8 A2
11	433.152	Hose 230 mm Ø12/3 x 0,23m
12	P550N	Hose clamp 19.8-706R
13	P519B	Nipple 1/2
14	432.087	Nipple 1/2
15	432.085	Valve Complete
16	432.092A	Plate for ball valve, printed rust-free
17	P498D	Washer DIN 6798 M5 5,1/9/0,5 A2
18	P960O	Ring DIN 3771 15,88/2,62
19	432.521	Shoulder Screw
20	433.111	cable holder
21	P471Z	Screw DIN 933 M6 x 10 A2
22	433.111A	cable holder rustproof
23	P520	Connection nipple straight GS12
24	433.137	hose holder
25	P486A	Screw DIN 912 M4 x 12
26	436.152	Hose for RA431
27	P496L	Shim DIN 9021 M6 6,4/18/1,6
28	P515W	Screw WN 1451 K40 x 8
29	P489C	Screw DIN 912 M5 x 6 A2
30	432.151	Hose 0.39m (please use 800.043)
31	P486O	Screw DIN 912 M6 x 18
32	P609	Cable tie black 4,8 x 178mm

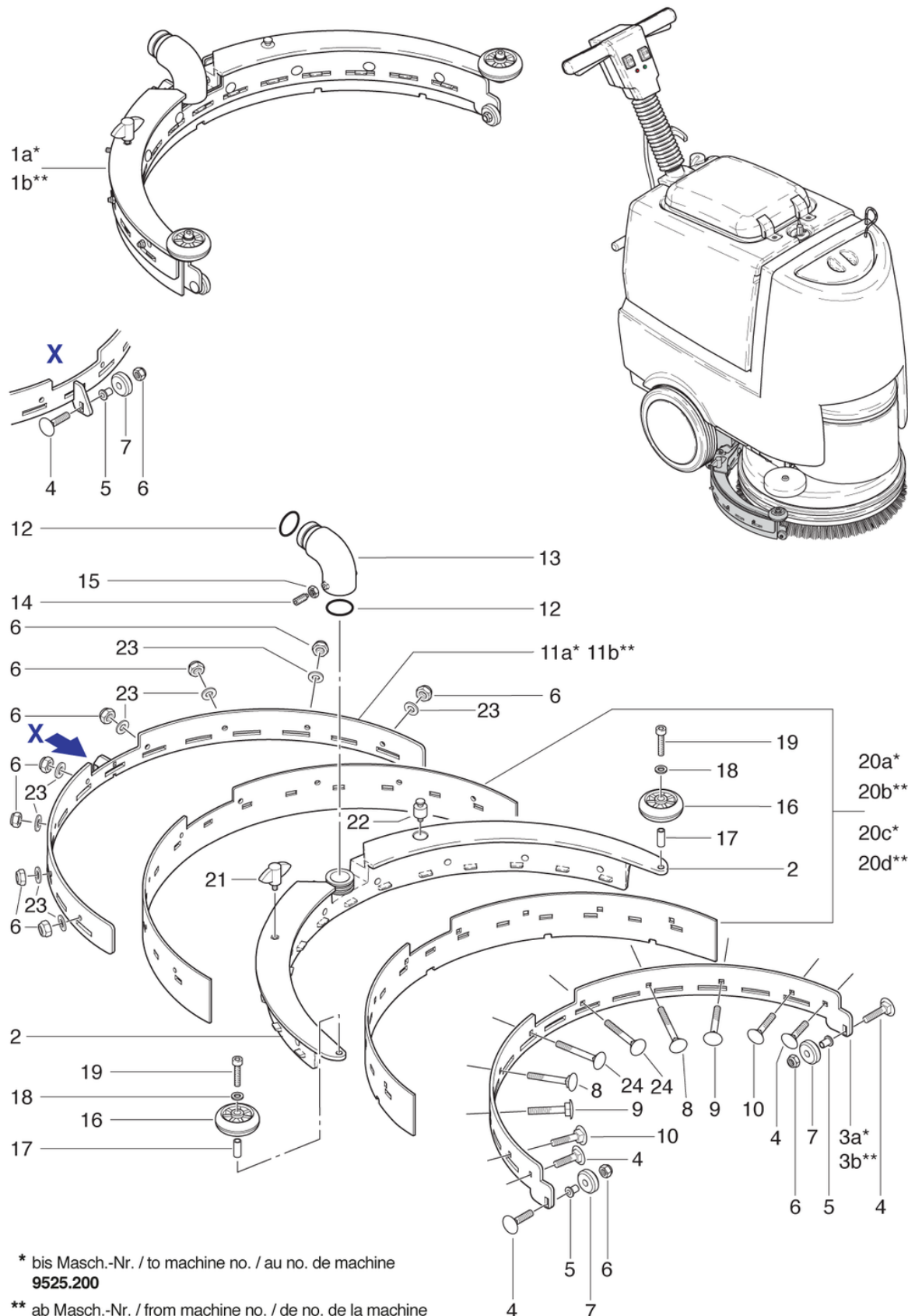
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Suction nozzle

PDF created on: 16.07.2024 13:01



RA 433 IBC



* bis Masch.-Nr. / to machine no. / au no. de machine
9525.200

** ab Masch.-Nr. / from machine no. / de no. de la machine
9532.001

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Suction nozzle

PDF created on: 16.07.2024 13:01

Pos.	Item no.	Spare part
1a	433.108	Suction nozzle curved cpl. up to machine no. 9525.200
1b	433.108A	Suction nozzle arcuate compl.
2	433.136	such foot
3a	433.105	holding rail ahead
3b	433.102	holding rail ahead
4	P481GF	Screw DIN 603 M5 x 20
5	433.109A	Bushing ø11 / 5.2 x 12.8
6	P493G	Nut DIN 985 M5
7	395.439	Roller ø 25 / 7,05
8	P481GC	Screw DIN 603 M5 x 50
9	P481GD	Screw DIN 603 M5 x 40
10	P481GE	Screw DIN 603 M5 x 30
11a	433.101	holding rail back
11b	433.103	Retaining rail rear
12	P964C	Ring DIN 3771 26 / 2.5 NBR
13	433.104	Inlet side ø32 / 26,5 x 90 °
14	P483A	Pin ISO 4028 M4 x 12 St galvanized
15	P491L	Nut DIN 934 M4 A2
16	395.140	Mini polyamide wheel ø 40mm
17	433.110	can
18	P500Q	Washer SN 213912 M6 18/4,8
19	P479S	Screw DIN 965 M6 x 35
20a	433.080LT	Squeegee Set red
20b	433.080ALT	Rubber blade red
20c	433.081	Squeegee Set grease and oil resistant
20d	433.081A	Squeegee Set grease and oil resistant
21	P253R	Wing screw Ø48 M6 x 10
22	433.132	bolt
23	P497E	Shim DIN 9021 M5 5,3/15/1,2 A2

Motor



This exploded view diagram illustrates the assembly of a vacuum cleaner head. The components are numbered as follows:

- 1:** Main vertical tube or wand.
- 2:** Adapter or connector piece.
- 3:** Curved mounting bracket.
- 4:** Screws for the bracket.
- 5:** Screws for the bracket.
- 6:** Motor unit with a brush roll.
- 7:** Side housing or floor plate.
- 8:** Switch or control knob.
- 9:** Curved mounting bracket (bottom).
- 10:** Screws for the bracket.
- 11:** Screws for the bracket.
- 12:** Screws for the bracket.
- 13:** Screws for the bracket.
- 14:** Screws for the bracket.
- 15:** Screws for the bracket.
- 16:** Ring or gasket.
- 17:** Ring or gasket.
- 18:** Ring or gasket.
- 19:** Screws for the bracket.

The diagram shows the motor unit (6) being attached to the side housing (7) using brackets (3, 9) and screws (4, 5, 10, 11, 12, 13, 14, 15). The main tube (1) is connected to the top of the motor unit via adapter (2). The bottom of the motor unit is secured with a ring (16, 17, 18) and screws (19). The entire assembly is shown in an exploded view to indicate the sequence of assembly.

RA433 IBC

Motor

PDF created on: 16.07.2024 13:01

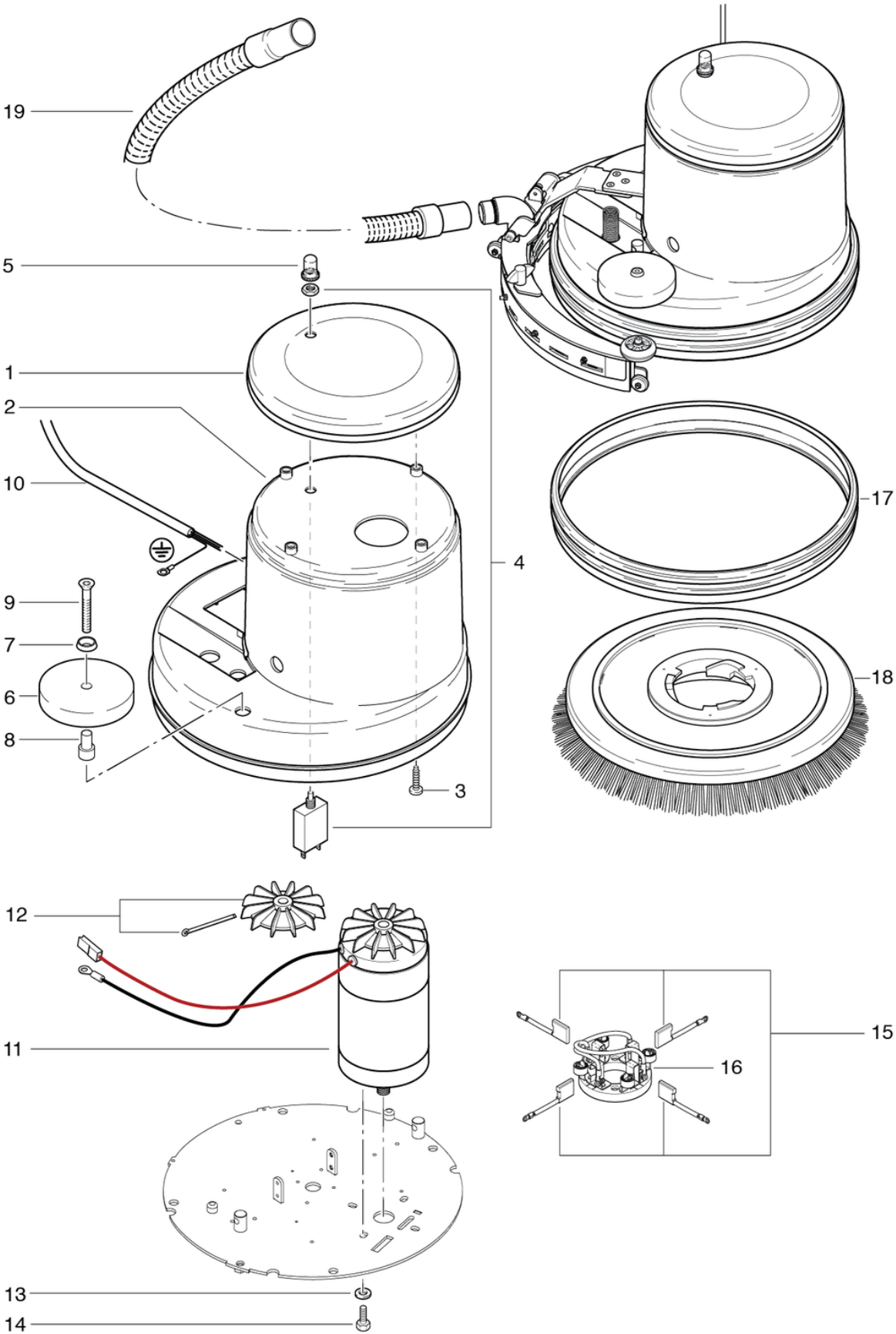
Pos.	Item no.	Spare part
1	433.116	suck foot rope to take off
2	P491R	Nut DIN 439 B M10 x 0.5d St vz
3	433.135A	gate sheet rustproof
4	395.520	Bearing screw M6
5	P496P	Washer DIN 125 A M8 8,4/16/1,6 A2
6	P492K	Nut DIN 985 M6 A2
7	433.134A	bar down rustproof
8	P253R	Wing screw Ø48 M6 x 10
9	433.127	contraction choke holder corner
10	433.139A	hanger assembly rustproof
11	433.122A	transition rustproof
12	P486QA	Screw DIN 912 M6 x 14 A2
13	P497K	Washer DIN 125 A M6 6,4/12/1,6 A2
14	433.118	Bushing ø9.5 / 6.2 x 6
15	P479LB	Screw DIN 965 M5 x 10 A2
16	P513ED	Ring DIN 471 40/1,75
17	433.119	transition piece
18	433.120	Support gyre
19	436.520	Compression spring DIN 2095 2.0 / 18/56

RA433 IBC

Motor

PDF created on: 16.07.2024 13:01

RA 433 IBC



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Motor

PDF created on: 16.07.2024 13:01

Pos.	Item no.	Spare part
1	748.0670	Anthracite gray lid
2	433.117	cover brush head red mashined
3	P515L	Screw WN 1452 K50 x 25 A2
4	470.355	Motor protection switch 25A
5	500.957A	Protective Cap
6	510.127	Fender Wheel ø90mm
7	P500T	Shim SN 213912 M8 25/4,8 A2
8	432.508	Distance ring ø15/8,5 x 26,8
9	P479P	Screw DIN 7991 M8 x 45 A2
10	P471D	Screw DIN 933 M8 x 16
11	436.121	Motor 24V DC 600W
12	565.593	Brush Motor Fan
13	P496P	Washer DIN 125 A M8 8,4/16/1,6 A2
15	436.121A	Carbon Brushes (Set of 4)
15	436.121B	Carbon Brushes (Set of 4)
16	436.121.10	Mounting Ring
17	720.054	Powerdisc Buffer Housing
18	742.059	Scrubbing brush PPN 0,6, Ø 43cm
19	433.138	Hose for suction nozzle

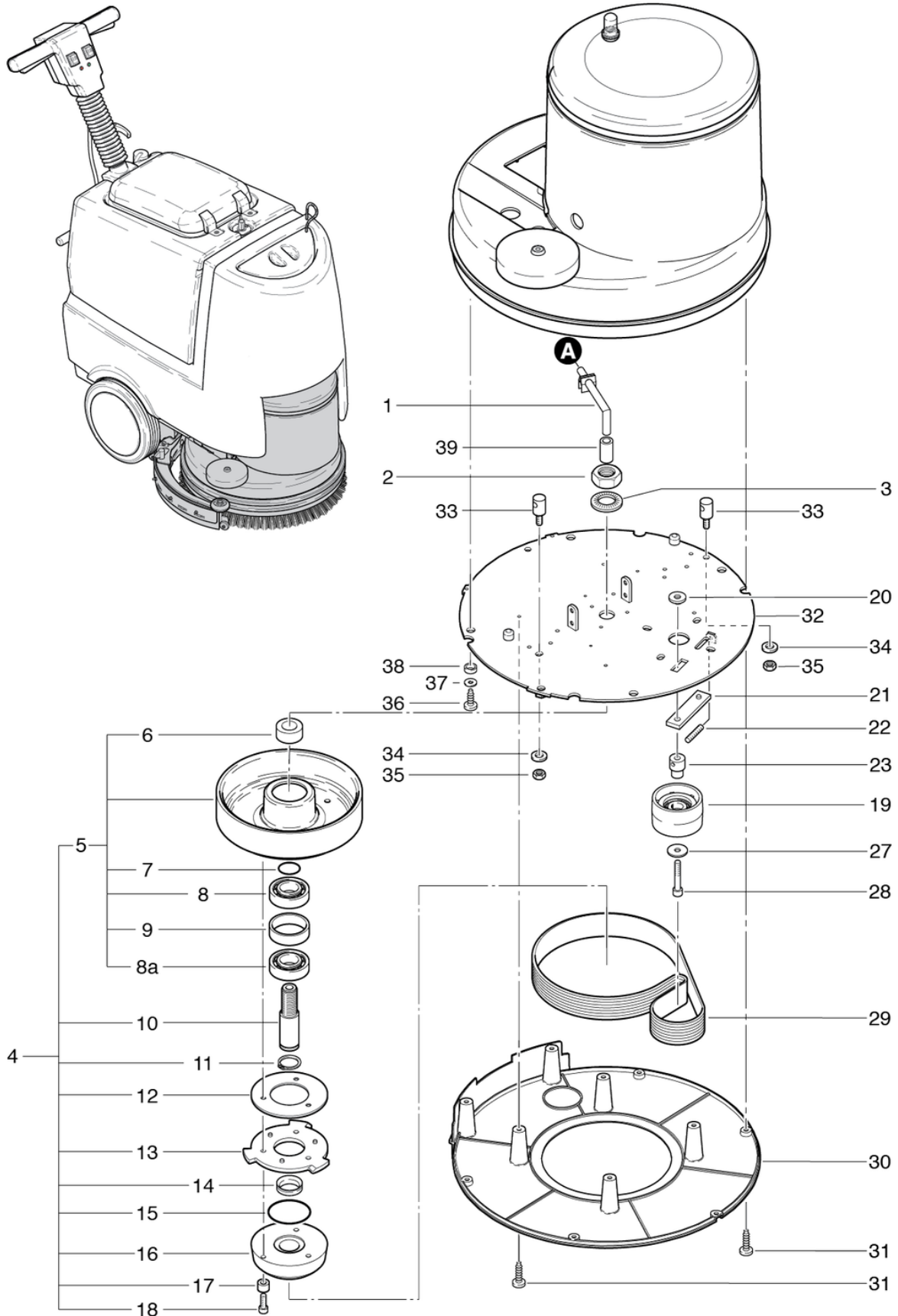
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Drive and waterdistribution

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RA 433 IBC



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Drive and waterdistribution

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Pos.	Item no.	Spare part
1	432.166	Lye pipe
2	P492R	Nut DIN 934 M20 x 1.5 A2
3	P498Q	Shim NFE 25511 M20 20,5/40/4,9
4	436.126	Belt with Pre Mounts
5	726.130	Belt pulley CL
6	432.507	Bearing
7	P964A	Ring DIN 3771 55,25/2,62 EPDM
8a	P316P	Deep groove ball bearing 6205 2RS ø52 / 25 x 15
8	P316Q	Deep groove ball bearing 6003 2RSR ø35 / 17 x 10
9	3611851	Spacer ring ø 52 / 45 x 15
10	742.125	Main Axle
11	P513D	Ring DIN 471 25/1,2
12	430.136	Distance shim 46 x 99 x 1
13	742.141	Pad Hub
14	P344	Shaft sealing ring 25x40x3 EPDM/V2A
15	P964B	Ring DIN 3771 42,52/2,62 EPDM
16	430.157	Pad Driver Hub
17	742.129	Distance ring ø 8 / 6 x 4
18	P487S	Screw DIN 912 M6 x 20 A2
19	726.301	Pulley
20	720.125	Groove Nut
21	720.128A	Support 82 x 20mm inoxydable
22	P513J	Pin DIN 913 M6 x 30 A2
23	436.127	Federation Tap
27	P496Q	Shim DIN 9021 M8 8,4/24/2
28	P487T	Screw DIN 912 M8 x 45 A2 with schaft
29	720.115	Ribbed belt 15 EPJ 895
30	432.146	Bottom anthracite gray PP
31	P516H	Screw WN 1451 K50 x 16
32	433.121A	impetus plaque rustproof
33	432.505A	Hold bolt rustproof
34	P496P	Washer DIN 125 A M8 8,4/16/1,6 A2
35	P492H	Nut DIN 985 M8 St galvanized
36	P515LA	Screw WN 1452 K50 x 10 A2
37	P496G	Shim DIN 9021 M5 5,3/15/1,2
38	432.515	Distance Ring
39	565.424	hose Flowmeter - Nipple

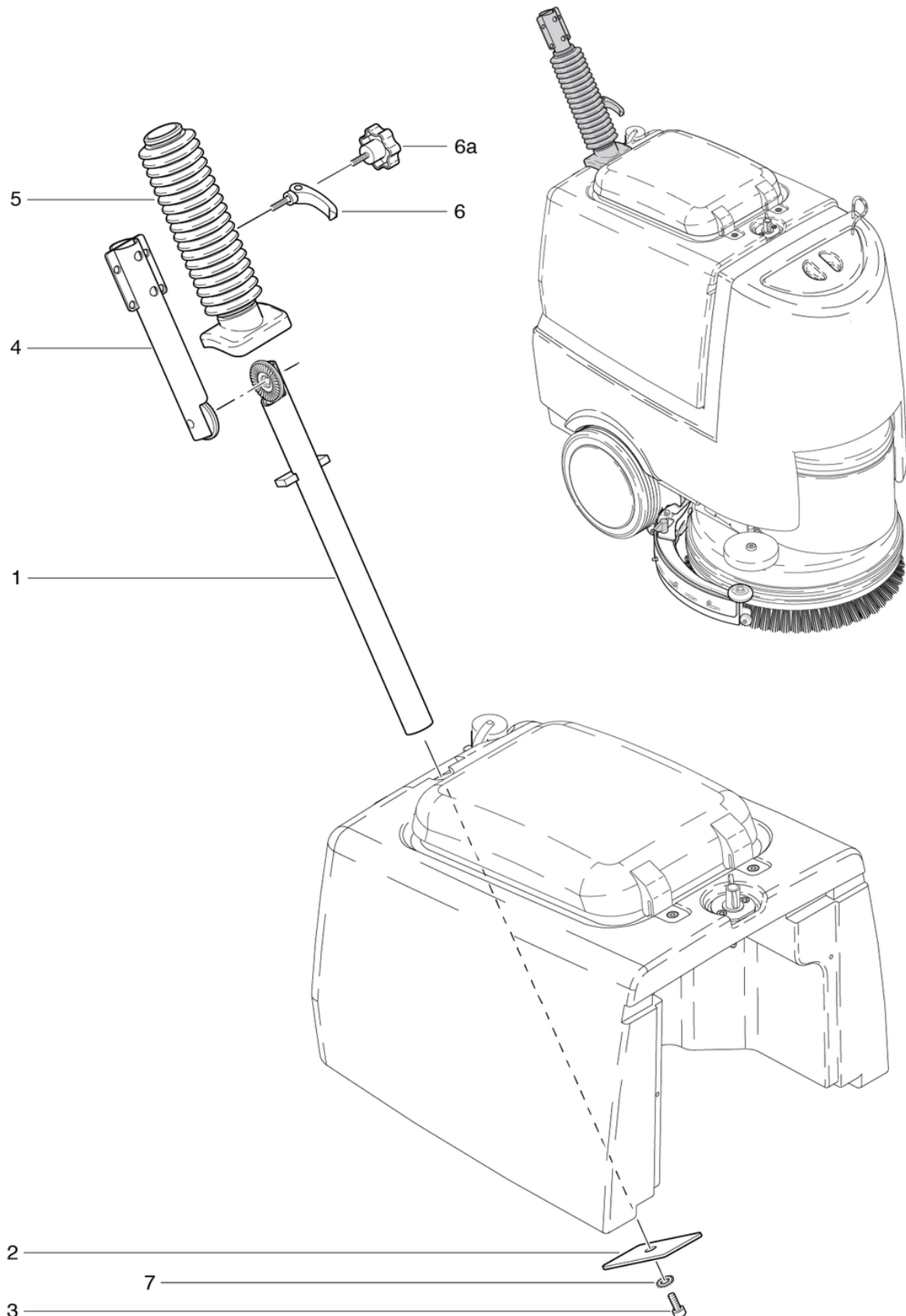
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Angled tube

PDF created on: 16.07.2024 13:01



RA 433 IBC



RA433 IBC

Angled tube

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Pos.	Item no.	Spare part
1	436.255	Lower Angled Tube
2	436.340A	underlay rustproof
3	P487HA	Screw DIN 912 M10 x 35 A2
4	432.410	Upper Handle Tube Complete
5	432.405	Protection Sleeve
6a	P253K	Star grip Ø62 M8 x 30
6	P085I	Locking handle M8 x 35
7	P498F	Shim DIN 6797 A M10 10,5/18/10,9 A2

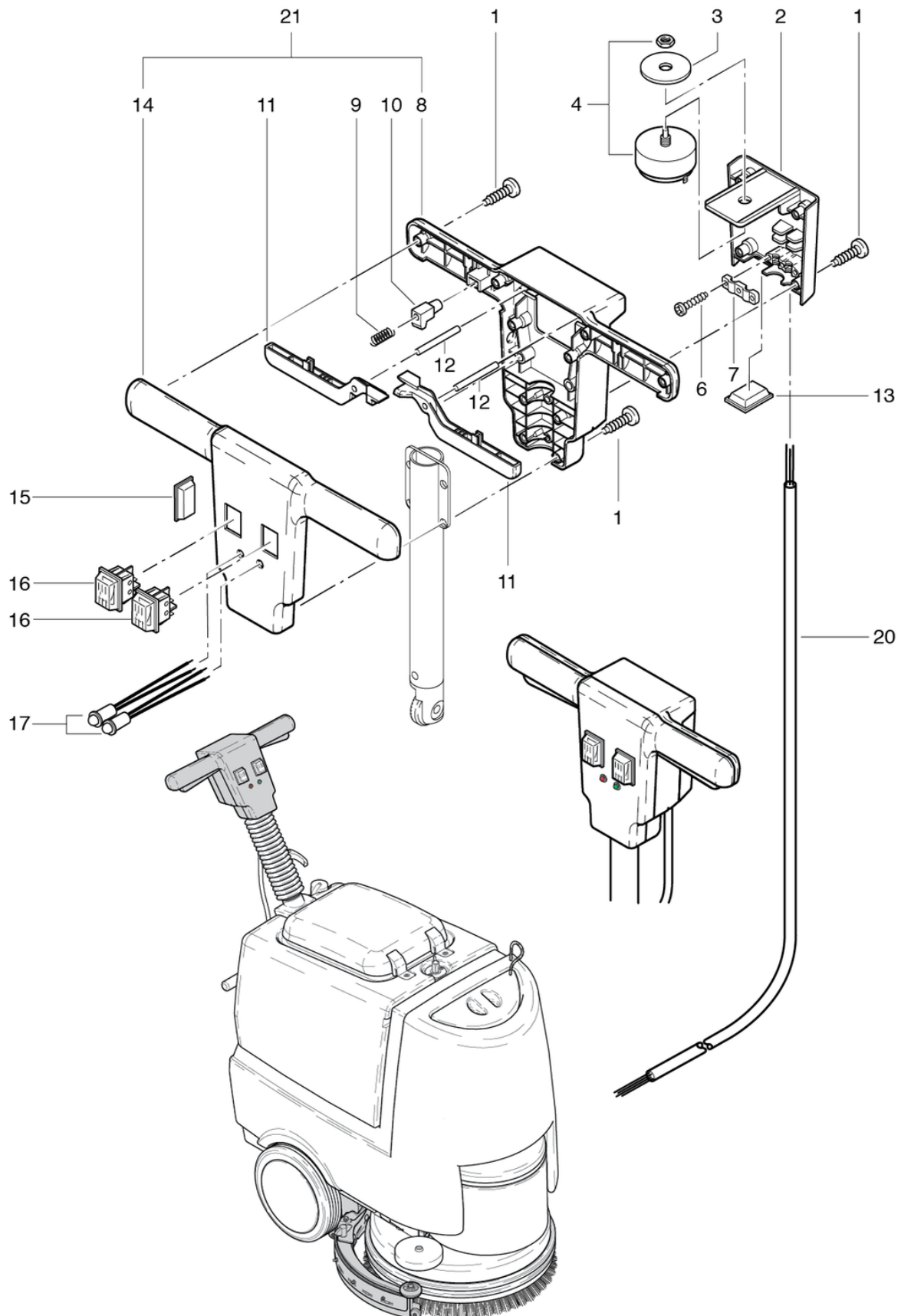
RA433 IBC

Handle

PDF created on: 16.07.2024 13:01



RA 433 IBC



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Handle

PDF created on: 16.07.2024 13:01

Pos.	Item no.	Spare part
1	P515L	Screw WN 1452 K50 x 25 A2
2	741.310	Rear Handle Cover
3	P496	Shim DIN 9021 M12 13/37/3
4	6650454	Switch
6	P515K	Screw M 5x20
7	742.321	Cable clamp
8	436.324	Handle Rear
9	742.209	Compression spring VD-090L 0.55 / 6 / 29.2
10	742.208	Button grey anthrazite
11	741.204	Switch
12	P512M	Pin ISO 2338 6 x 50 pc vz
13	741.216	Switch Handle
14	470.321A	Front Handle Housing
15	P1710	Cover
16	P241	Rocker switch white 24V
17	P415	Set LED red, green 2.1 V, Ø 5 mm
20	436.318	Cable Tree
21	436.310	Handle Front & Rear

Suction nozzle removal

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Suction nozzle removal

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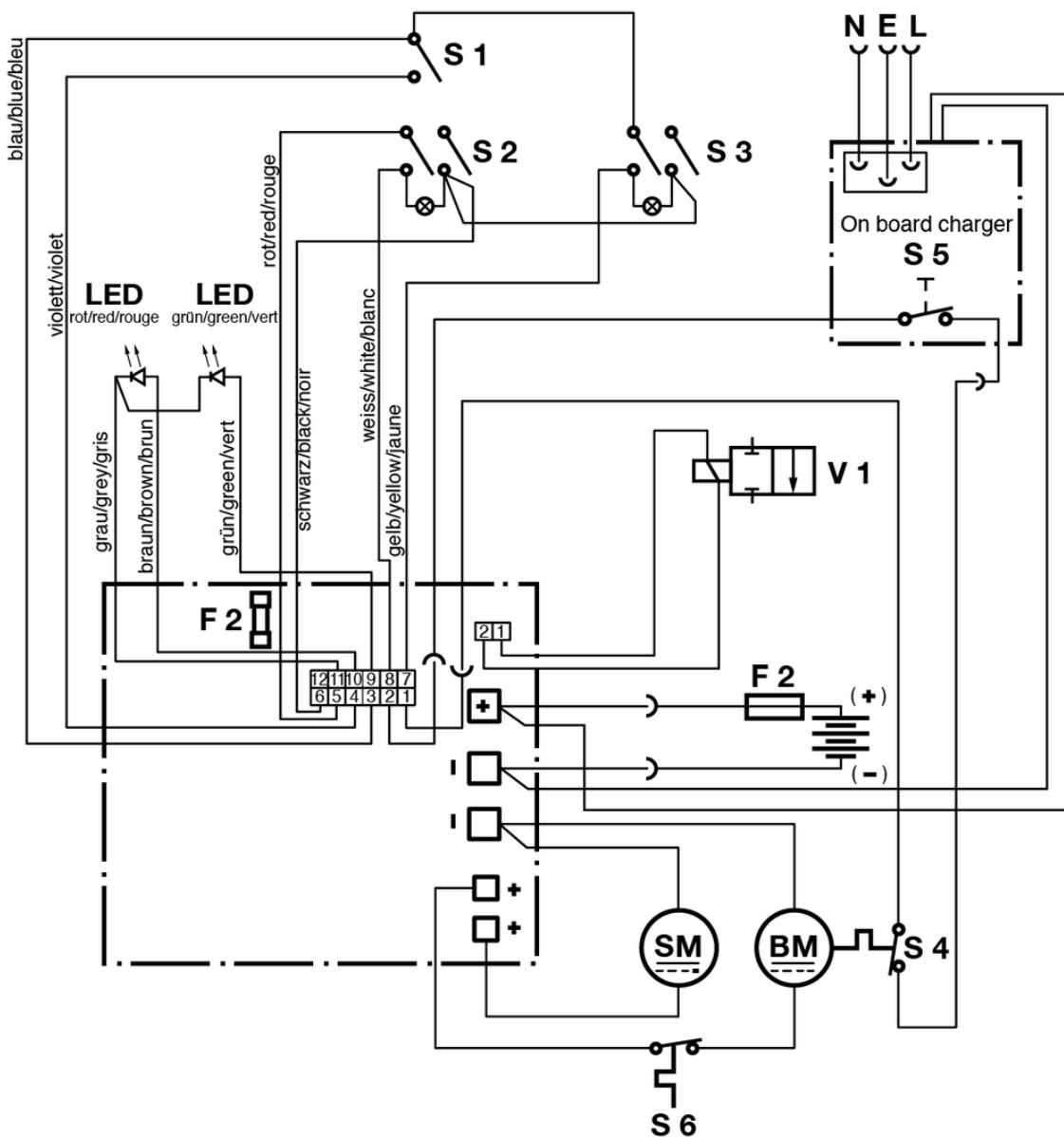
Pos.	Item no.	Spare part
1	433.138	Hose for suction nozzle
2	432.365	Lever to Suction Nozzle
3	432.361	Axle
4	P499Q	Shim DIN 6799 8/16,3/1
5	P488E	Screw DIN 912 M5 x 8 A2
6	P497E	Shim DIN 9021 M5 5,3/15/1,2 A2
7	432.370	Squeegee Lift
8	433.116	suck foot rope to take off
9	432.362	Cable entry
10	P509j	Distance piece BN 5281 8,2/12/5 PA6.6

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Wiring diagram

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- S 1 = Schalter Bürstmotor / Switch for brush motor / Interrupteur pour moteur
- S 2 = Schalter Ventil / Valve - Switch / Interrupteur pour valve
- S 3 = Schalter Saugmotor / Suction motor switch / Interrupteur pour moteur
- S 4 = Motor Temperaturwächter / Motor Temperature switch
- S 5 = Schalter für Fahrsperrung / Switch for driving barrier /
Commutateur pour amortissement
- S 6 = Motorschutzschalter / Protective switchgear of an engine / Disjoncteur
- BM = Bürstmotor / Motor / Moteur
- SM = Saugmotor / Moteur d'aspiration / Vacuum motor
- V 1 = Ventil / Valve
- F 1 = Sicherung 3.15 A / Fuse 3.15 A / Fusible 3.15 A
- F 2 = Sicherung 75 A / Fuse 75 A / Fusible 75 A