



Clean like a pro

SP50

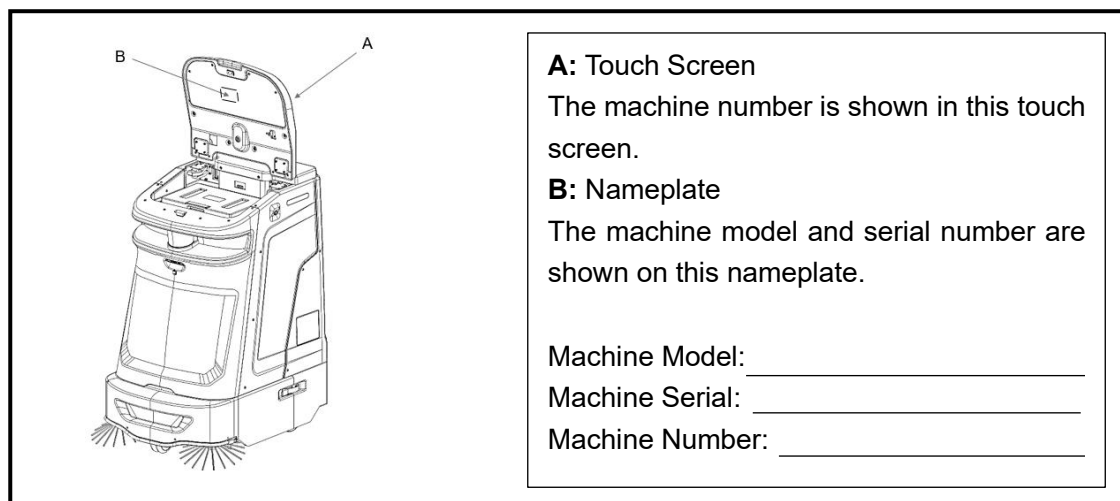
Autonomous Vacuum Sweeper

Parts Manual



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How to order parts

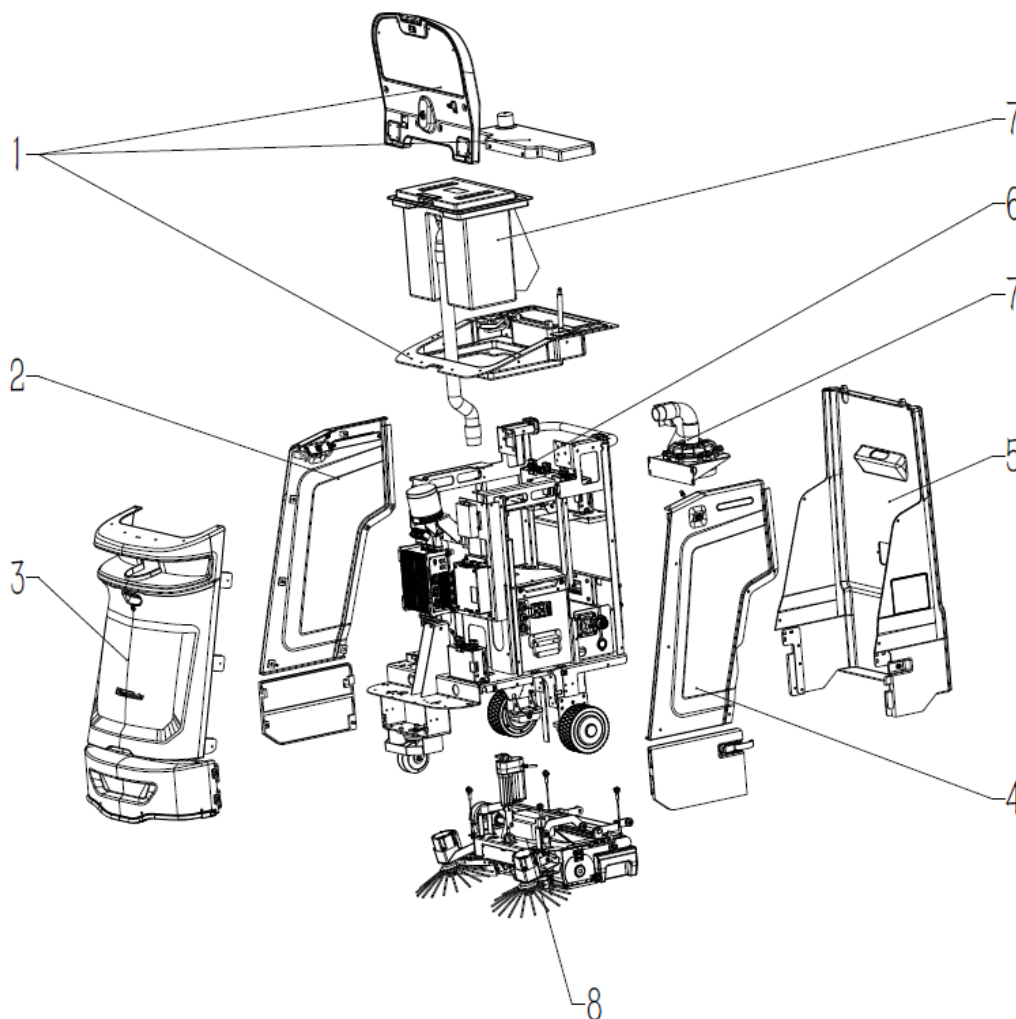
⚠ WARNING: Use accessories and consumables supplied or authorized by CenoBots. The use of other accessories may impair safety.

The following steps should be followed:

1. Identity the machine model, number, and serial number.
2. Use the part number in this manual and identify the quantity.

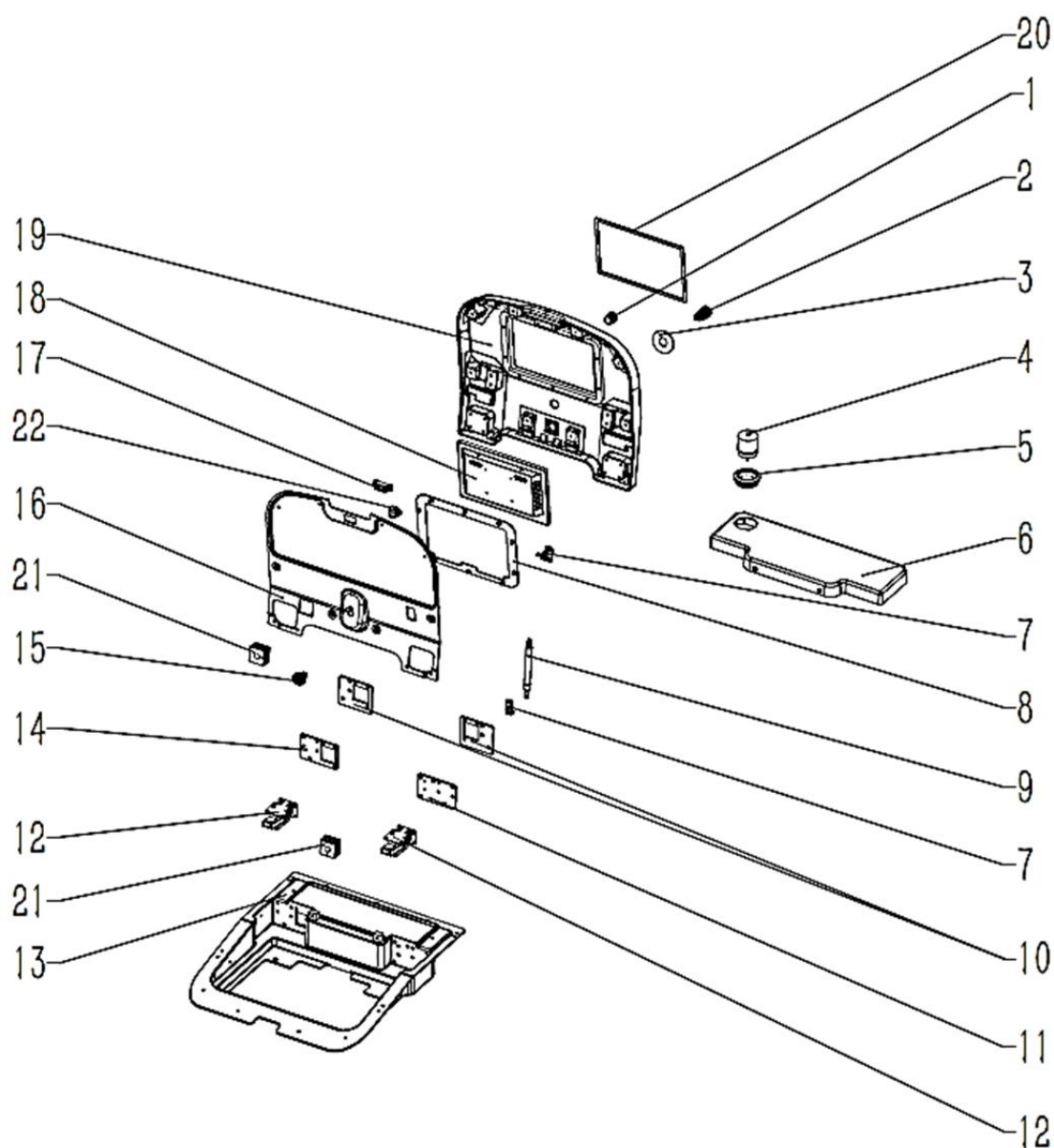
*** - Indicate that this part has multiple options available. Other accessories can be found in the accessories section.**

Overview



Item	Description	Qty.
1	Top Lid Assembly	1
2	Right Cover Assembly	1
3	Front Cover Assembly	1
4	Left Cover Assembly	1
5	Rear Cover Assembly	1
6	Chassis Assembly	1
7	Vacuum System Assembly	1
8	Brush Head Assembly	1

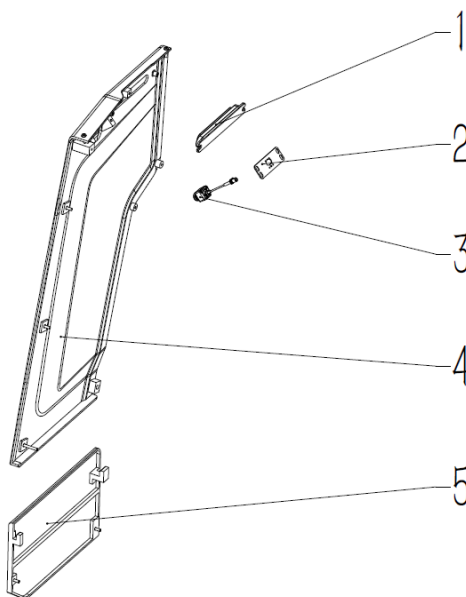
Top Lid Assembly



Item	Part No.	Description	Qty.
1	551315180	Auto/Manual Switch Button	1
2	551315160	Emergency Stop Button	1
3	102060057	Sticker, Emergency Stop	1
4	552920004	Flashing Beacon, 24VDC	1
5	251110415	Flashing Beacon Base, Rubber	1
6	251110303	Rear Top Cover of the Machine, Plastic	1
7	102040014	Mounting Bracket, Nitrogen Gas Spring	2
8	251110235	Mounting Bracket, Touch Screen	1
9	102040013	Nitrogen Gas Spring	1
10	251110423	Pad, Liner Cover	1
11	251110227	Left Bracket, Hinge	1
12	102060052	Hinge	2

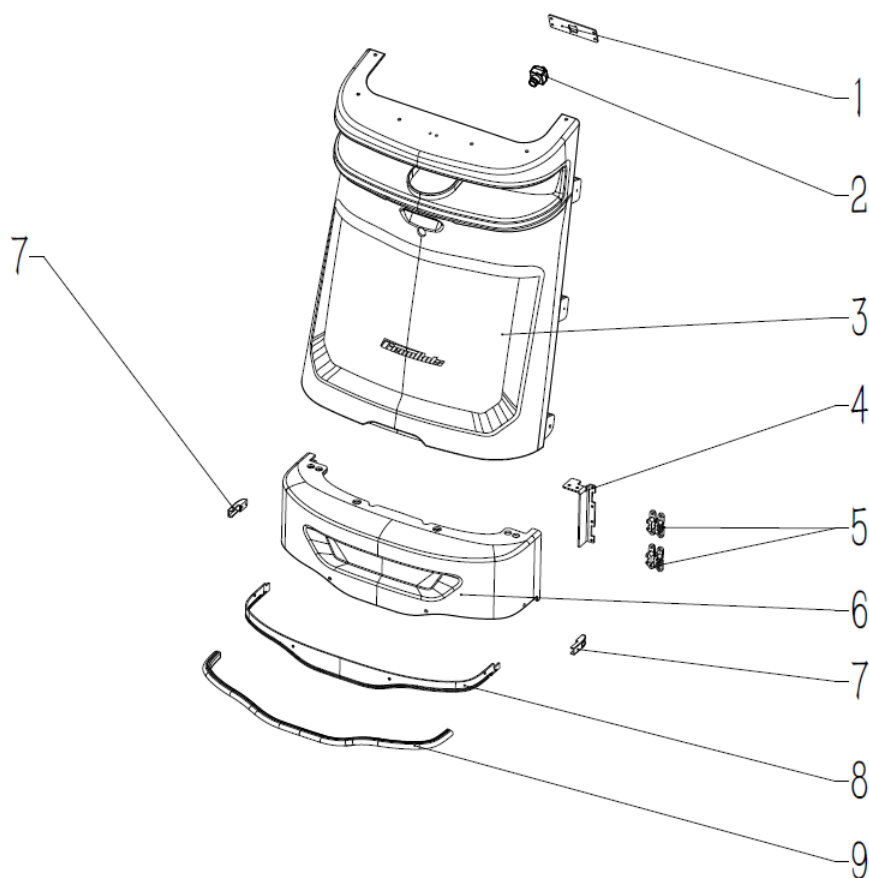
13	251110304	Liner Cover, Plastic	1
14	251110228	Right Bracket, Hinge	1
15	551315170	Key Switch	1
16	251110302	Lower Cover, Top Lid of the Machine, Plastic	1
17	102060088	Magnet, Top Lid	1
18	103080001	Touch Screen	1
19	251110301	Upper Cover, Top Lid of Machine, Plastic	1
20	252060204	Gasket, Touch Screen	1
21	102070021	Cable Entry Seal, Rubber	2
22	102060145	Clamp(R-type), Pad Antenna, SUS304	1

Right Cover Assembly



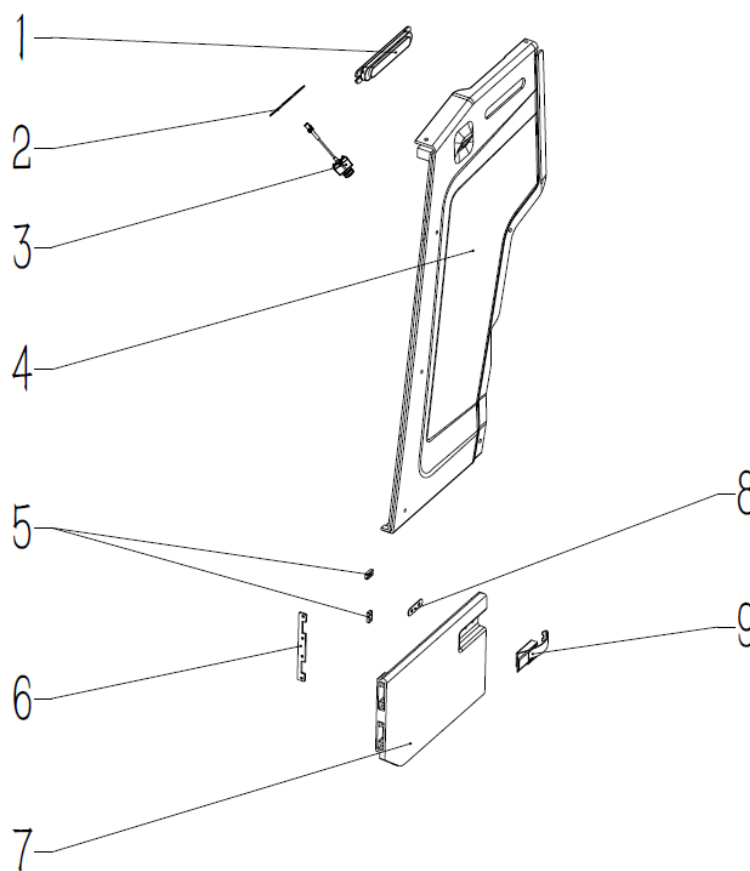
Item	Part No.	Description	Qty.
1	551315150	Indicator Light, 24VDC	1
2	251110230	Mounting Bracket, Side Camera	1
3	103130002	Side Camera, 5VDC	1
4	251110306	Upper Right Cover, Plastic	1
5	251110310	Lower Right Cover, Plastic	1

Front Cover Assembly



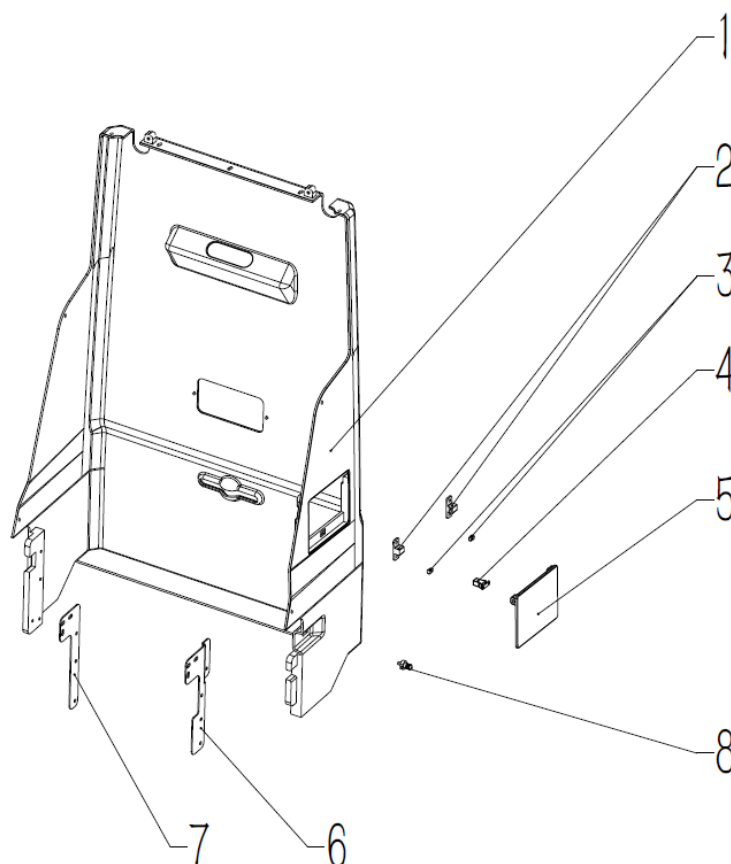
Item	Part No.	Description	Qty.
1	251110407	Mounting Bracket, Front Camera	1
2	103130000	Front Camera, 5VDC	1
3	251110307	Upper Front Cover of the Machine, Plastic	1
4	251110406	Mounting Bracket, Lower Front Cover	1
5	102060155	Concealed Hinge	2
6	251110311	Lower Front Cover of the Machine, Plastic	1
7	251110125	Cover, Bumper Sensor, Plastic	2
8	251110410	Bracket, Bumper Sensor	1
9	551315190	Bumper Sensor	1

Left Cover Assembly



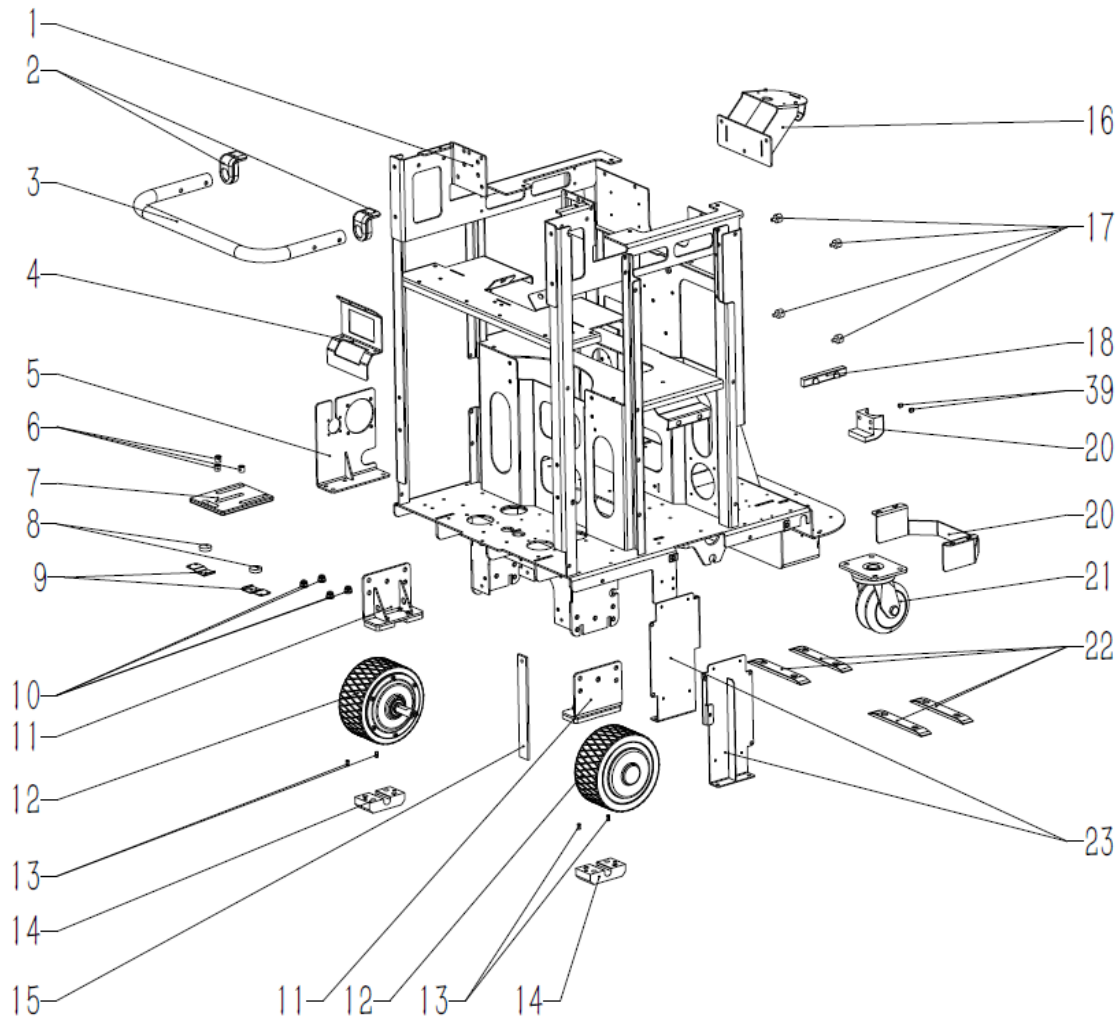
Item	Part No.	Description	Qty.
1	551315150	Indicator Light, 24VDC	1
2	251110230	Mounting Bracket, Side Camera	1
3	103130002	Side Camera,5VDC	1
4	251110305	Upper Left Cover, Plastic	1
5	102060056	Magnet, Left Cover	2
6	251110408	Bracket, Concealed Hinge	1
7	251110309	Lower Left Door, Plastic	1
8	251110128	Shim, Lower Left Door	1
9	102060055	Latch, Lower Left Door	1

Rear Cover Assembly



Item	Part No.	Description	Qty.
1	251110308	Rear Cover of the Machine, Plastic	1
2	251110313	Bracket, Dampening Hinge	2
3	102060082	Dampening Hinge, Load-Break Switch Cover	2
4	102040015	Push-to-open Latch	1
5	251110312	Cover, Load-break Switch and Manual Charging Connector	1
6	251110404	Left Bracket, Rear Cover	1
7	251110405	Right Bracket, Rear Cover	1
8	251110237	Screw, Door Latch	1

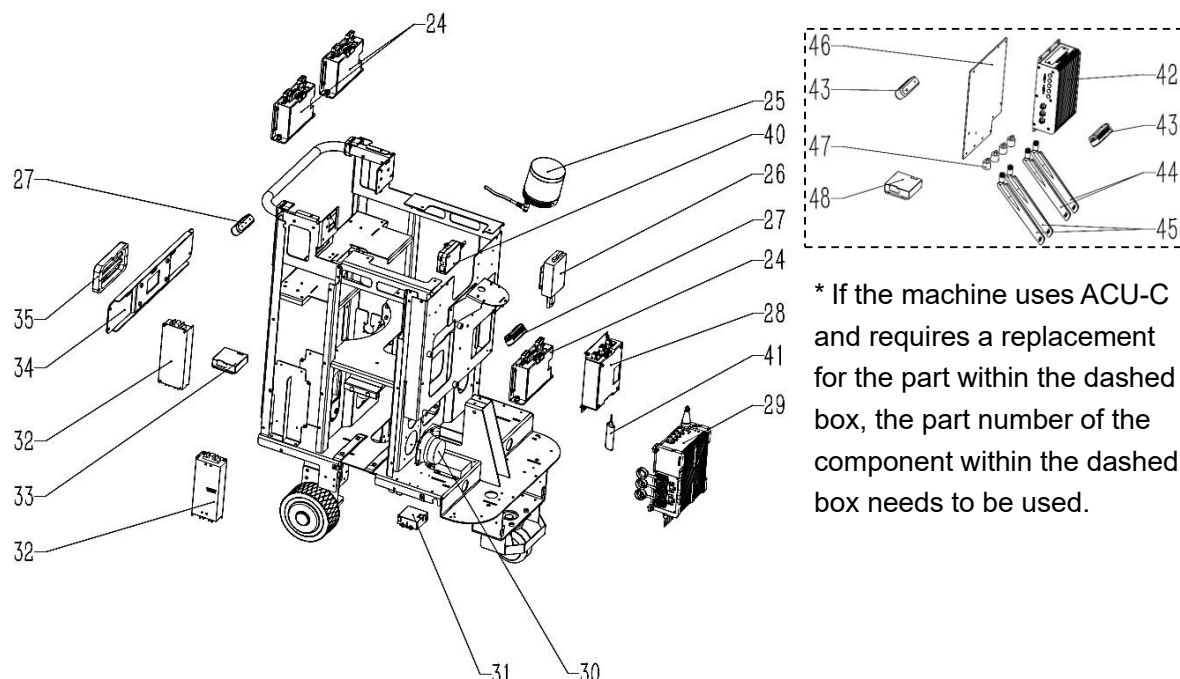
Chassis Assembly



Item	Part No.	Description	Qty.
1	251110401	Main Frame	1
2	251110412	Handle Cover, Rubber	2
3	251110236	Handle	1
4	251110403	Mounting Bracket, Rear Depth Camera	1
5	251110417	Mounting Bracket, Load-break Switch	1
6	102030004	Sleeve, Pedal	3
7	251110035	Pedal	1
8	102060051	Magnet, Pedal	2
9	251110122	Mounting Bracket for the Magnet, Pedal	2
10	102040004	Oil Damper, IMU	4
11	251110107	Mounting Bracket for the Drive Wheel	2
12	103170003	Drive Wheel, 24VDC, 150W	2
13	102010406	Positioning Pin, Drive Wheel, M5x10	4
14	251110102	Mounting Clamp Plate for the Drive Wheel	2
15	251110119	Grounding Strip	1
16	251110402	Mounting Bracket, 3D LiDAR	1

17	102040027	Damper, ACU	4
18	251110315	Battery Cushion Pad	1
19	251110127	Vacuum Hose Protector Pad	1
20	251110118	Bracket, Bumper Sensor	1
21	102060027	Caster, 4inches	1
22	251110113	Battery Sliding Rail	4
23	251110114	Bracket, DC-DC Convertor	2
39	102030013	Black Nylon Pillar	2

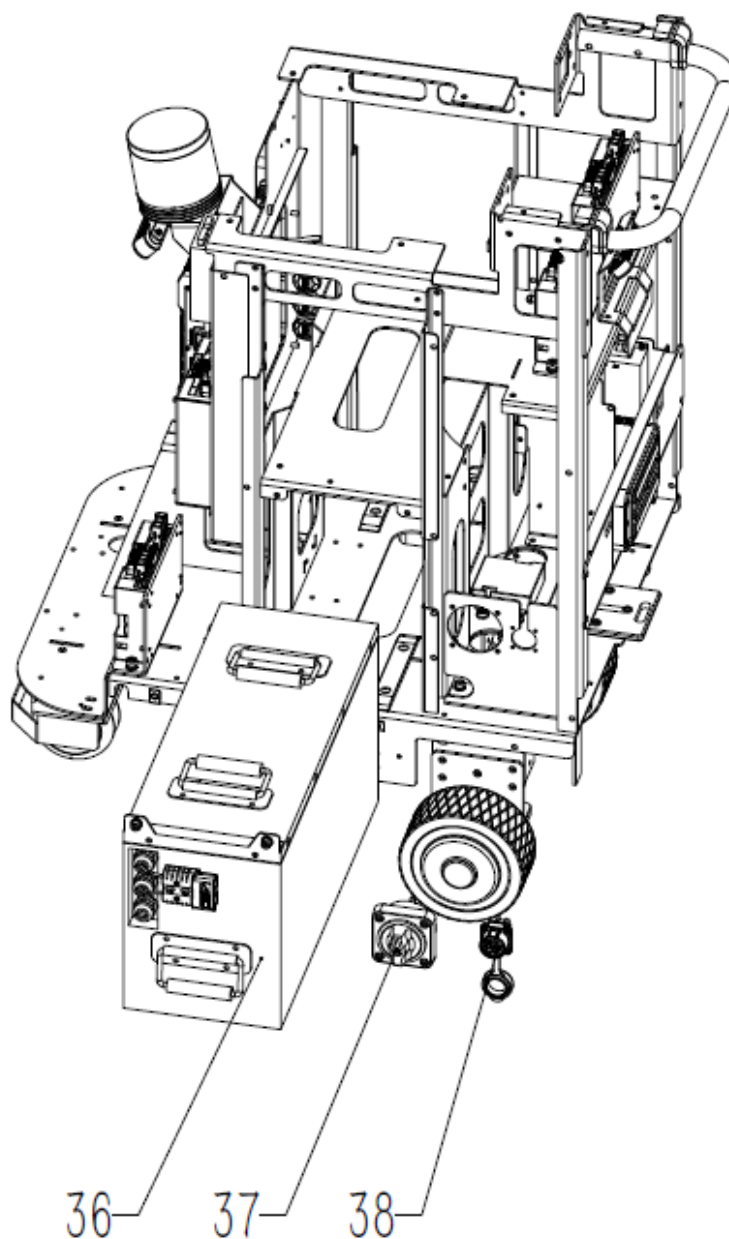
Chassis – Controller Unit



* If the machine uses ACU-C and requires a replacement for the part within the dashed box, the part number of the component within the dashed box needs to be used.

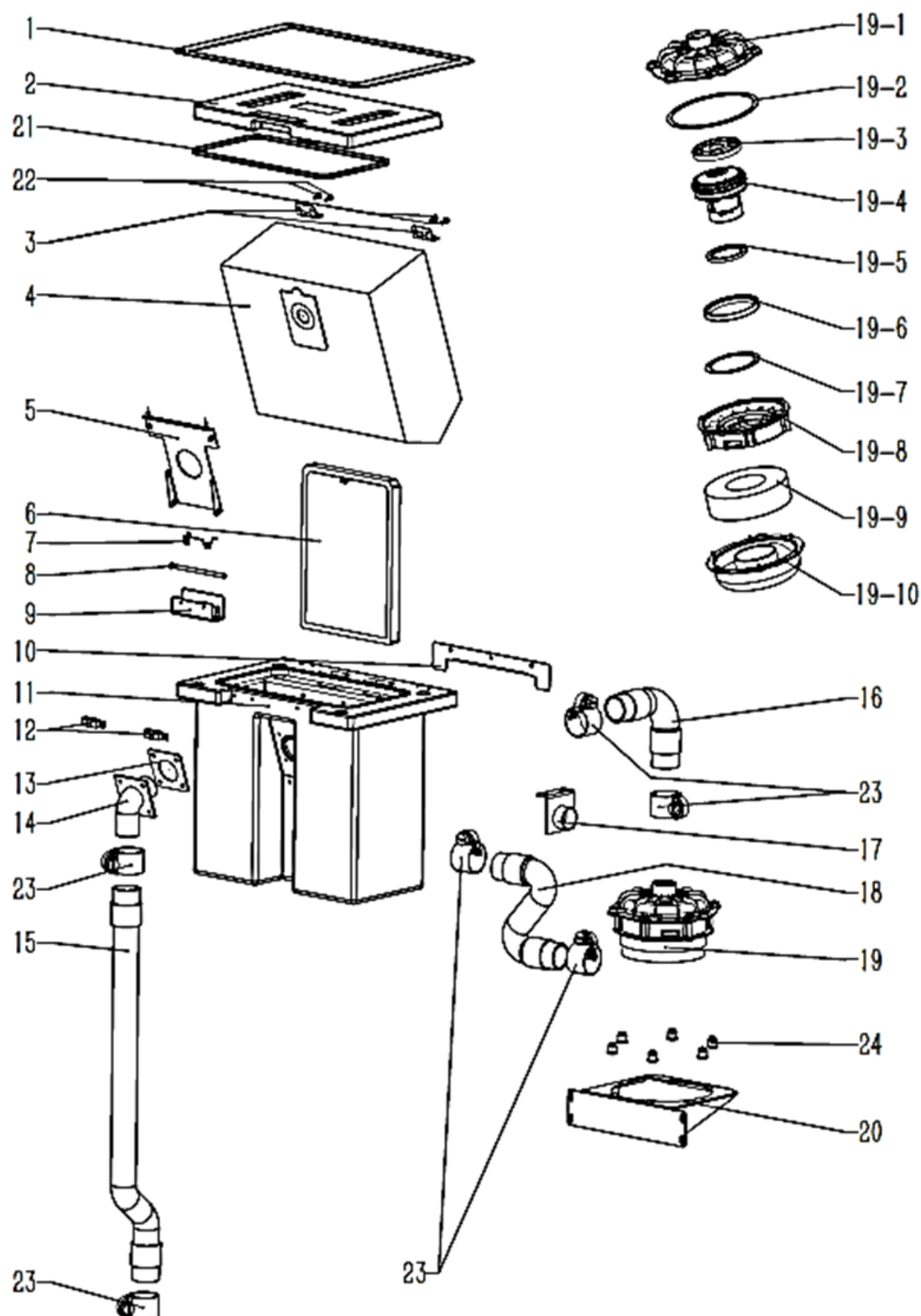
Item	Part No.	Description	Qty.
24	301050003	Motor Driver, 24VDC (Without Housing)	3
25	103090003	32-Beam 3D LiDAR, 24VDC	1
26	301050008	RS-485 to RS-232 Converter (With Bracket), 24VDC	1
27	103130001	Depth Camera, 5VDC	2
28	301050004	ECU, 24VDC (Without Housing)	1
29	103080000	ACU, 24VDC	1
30	103070005	Loudspeaker, 20W	1
31	301050007	Loudspeaker Power Amplifier, 24VDC (Without Housing)	1
32	103010003	DC-DC Converter Module, 24VDC, 150W	2
33	301050006	IMU, 24VDC (Without Housing)	1
34	251110421	Mounting Bracket, Charging Plate	1
35	301100001	Charging Plate, Automatic Charging	1
40	103100015	LiDAR Controller Box, 24VDC	1
41	103100000	Ground isolator, Loudspeaker Power Amplifier	1
42	103080004	ACU-C, 24VDC	1
43	103130003	Depth Camera, ACU-C, 5VDC	2
44	103060001	WiFi Antenna, ACU-C	2
45	103060000	4G Antenna, ACU-C	2
46	251110425	Bracket, ACU-C	1
47	102060094	Antenna Clamp, ACU-C	4
48	301050009	IMU, ACU-C, 24VDC	1

Chassis – Power System



Item	Part No.	Description	Qty.
36	103010008	Lithium Iron Phosphate Battery, 25.6 VDC, 2944 Wh	1
37	103020000	Load-break Switch	1
38	552910000	Manual Charging Connector	1

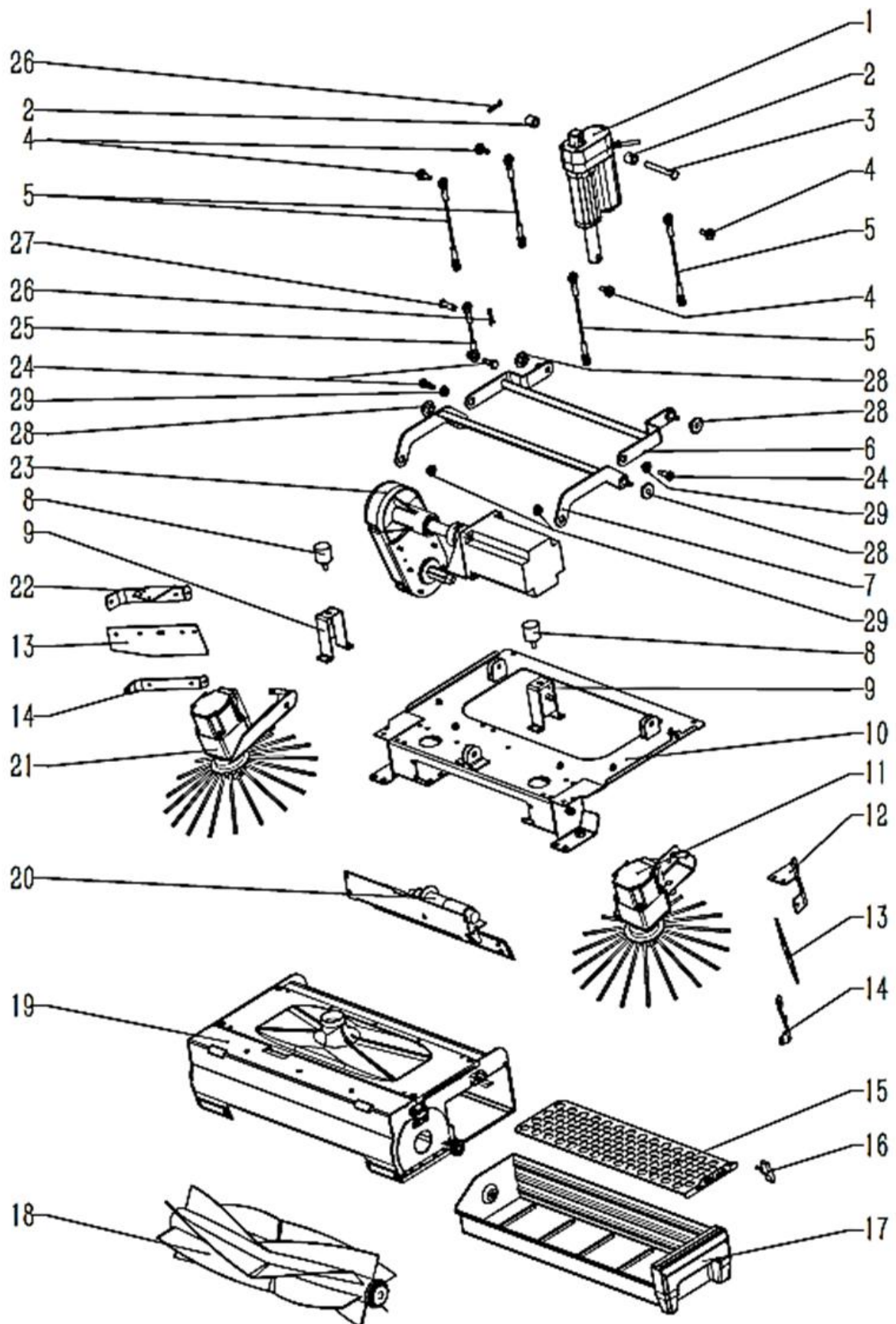
Vacuum System Assembly



Item	Part No.	Description	Qty.
1	251110126	Dust Bin Edge Cover 1, Plastic	1
2	251131008	Dust Bin Lid, PE	1
3	102060074	Hinge, Dust Bin, SUS 304	2
4	251131014	Dust Filter Bag	1

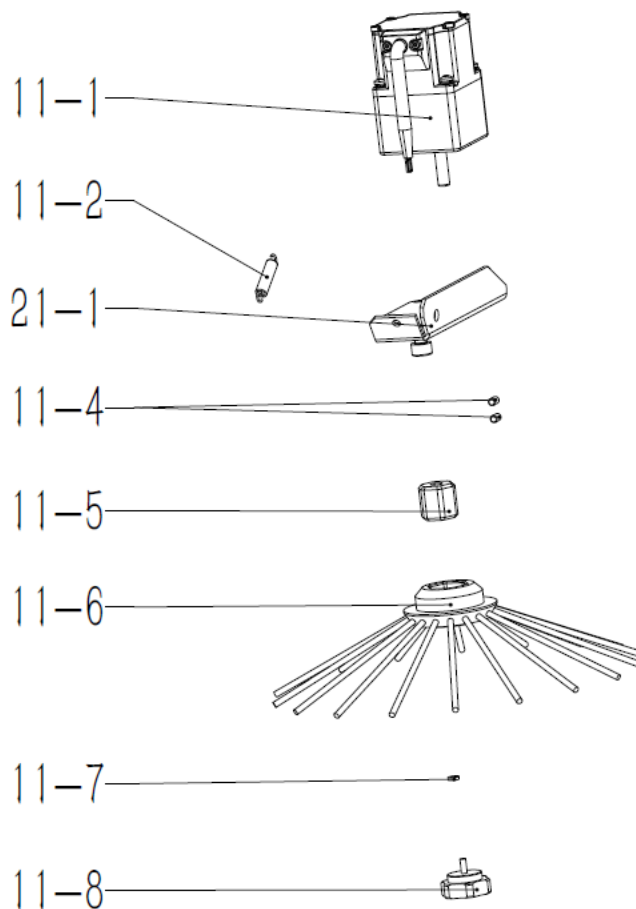
5	251131033	Holder, Dust Filter Bag	1
6	251131015	HEPA	1
7	251131002	Torsion Spring, Dust Bin	1
8	102060128	Pin, Dust Filter Bag Holder, M6*110	1
9	251131009	Flap, Dust Filter Bag Holder	1
10	251131030	Mounting Bracket, HEPA	1
11	251131007	Dust Bin, PE	1
12	102060075	Latch, Dust Bin	2
13	251131027	Sealing Pad, Vacuum Hose, Rubber	1
14	251131026	Bend Tube, Vacuum Hose	1
15	251131006	Corrugated Vacuum Hose, Brush Head	1
16	251132007	Bend Tube, Dust Bin, Vacuum Motor	1
17	251132002	Bracket, Muffler, Exhaust, Vacuum Motor	1
18	251132006	Muffler, Exhaust, Vacuum Motor	1
19	301040001	Vacuum Motor Assembly	1
19-1	251132008	Upper Housing, Vacuum Motor Assembly	1
19-2	251132015	Sealing Ring, Vacuum Motor Assembly, EVA.	1
19-3	251132012	Silicone Part 1, Vacuum Motor Assembly	1
19-4	103170008	Vacuum Motor, 24VDC, 25kPa	1
19-5	251132014	Silicone Part 3, Vacuum Motor Assembly	1
19-6	251132013	Silicone Part 2, Middle Housing, Vacuum Motor	1
19-7	251132016	Baffle, Vacuum Motor Assembly	1
19-8	251132009	Middle Housing, Vacuum Motor Assembly	1
19-9	251132003	Sponge, Vacuum Motor Assembly	1
19-10	251132010	Lower Housing, Vacuum Motor Assembly	1
20	251132001	Bracket, Vacuum Motor Assembly	1
21	102080009	Dust Bin Seal, D Type (6*7)	1
22	102010430	Screw, 5×M4×3	4
23	102060076	Clamp, Vacuum Hose	6
24	102040019	Oil Damper, Vacuum Motor	6

Brush Head Assembly



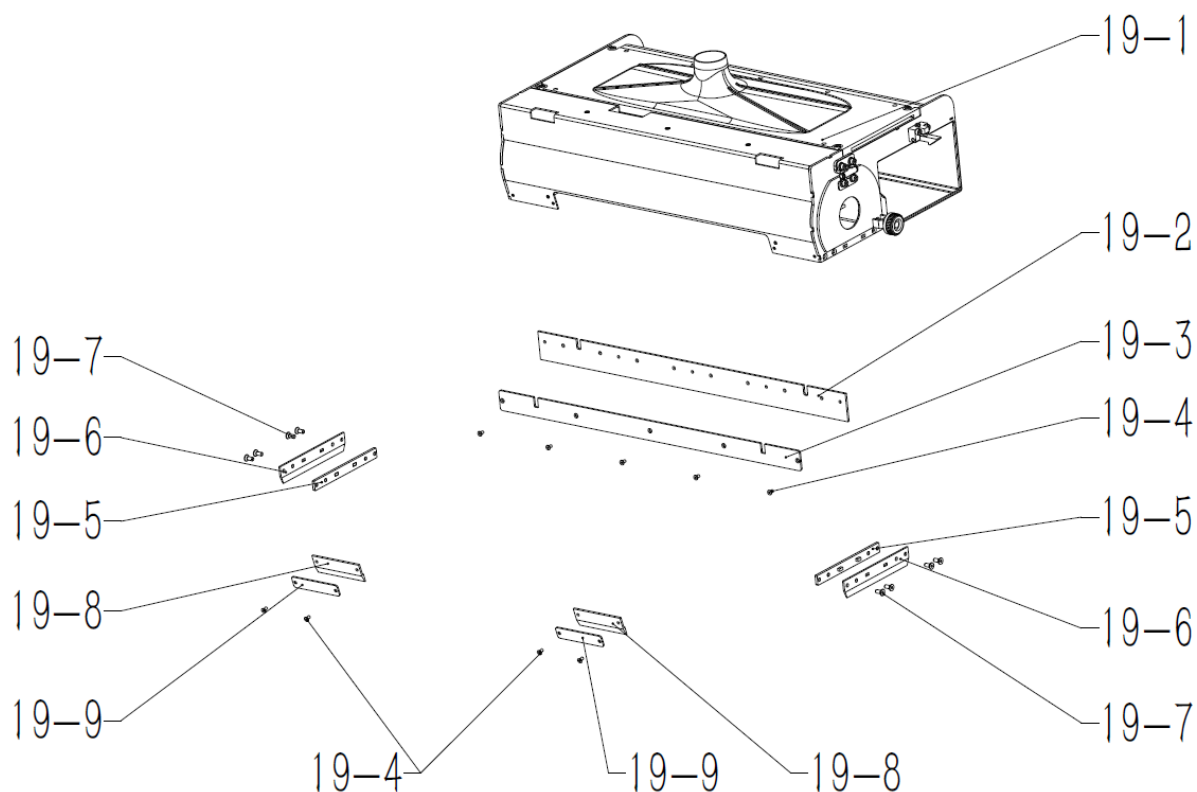
Item	Part No.	Description	Qty.
1	103170004	Electric Linear Actuator, Stroke 50mm,24VDC	1
2	102030005	Spacer Ring, Linear Actuator, Resin	2
3	102010415	Pin, Linear Actuator, 8x65x3.5	1
4	102060070	Nut-Fixed Hinge Pin	4
5	251120015	Limiting Wire Rope, Brush Head	4
6	251120200	Rear Linkage, Brush Head Lifting Mechanism	1
7	251120100	Front Linkage, Brush Head Lifting Mechanism	1
8	102040018	Damper, Rubber	2
9	251124120	Front Linkage Bracket	2
10	251124100	Bracket, Brush Housing	1
11	-	Left Side Brush Assembly	1
12	251124917	Left Bracket, Side Brush Rubber Strip	1
13	251124915	Side Brush Skirt, Rubber	2
14	251124916	Clamp Plate, Side Brush Rubber Strip	2
15	251123004	Filter Mesh	1
16	102060067	Spring Clip for Filter Mesh	1
17	301010037	Trash Tray	1
18	251123300	Roller Brush	1
19	-	Roller Brush Housing Assembly	1
20	-	Baffle Mechanism	1
21	-	Right Side Brush Assembly	1
22	251124914	Right Bracket, Side Brush Rubber Strip	1
23	-	Roller Brush Drive Assembly	1
24	102060071	Nut-Fixed Hinge Pin	3
25	251120016	Lifting Wire Rope, Brush Head	1
26	102060132	R-type Cotter Pin	2
27	102060072	Hinge Pin, Cotter Pin-Fixed	1
28	102030012	Metal Shaft Ring, Brush Lifting	4
29	251120004	Bronze Bushing, Brush Lifting	4

Brush Head Assembly – Left Side Brush Assembly



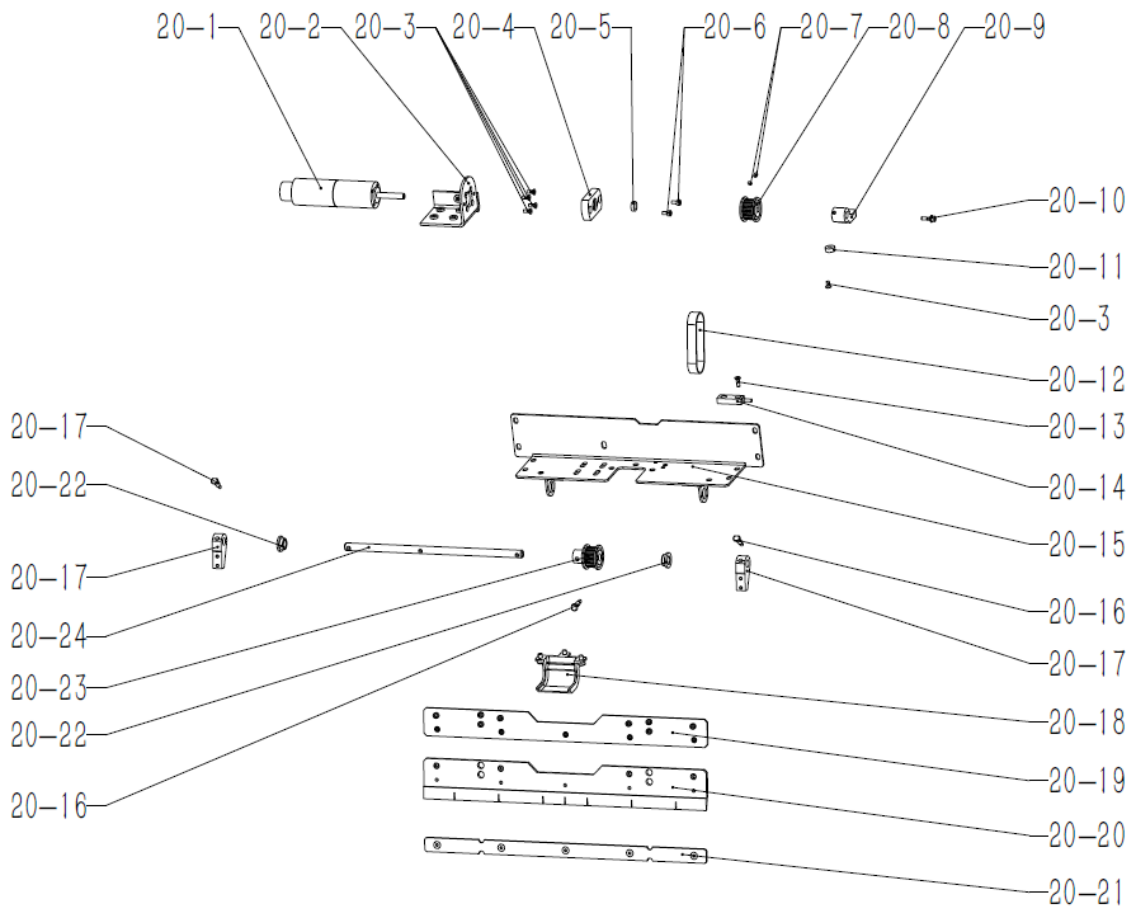
Item	Part No.	Description	Qty.
11-1	103170005	Side Brush Motor, 24VDC, 30W	1
11-2	102040016	Spring, Side Brush	1
21-1	251121001	Left Bracket, Side Brush	1
11-4	102010137	Screw, M5x8	2
11-5	251121002	Side Brush Base	1
11-6	251121004	Side Brush	1
11-7	102010475	Self-locking Washer, Side Brush	1
11-8	102060059	Knob, Side Brush	1

Brush Head Assembly – Roller Brush Housing Assembly



Item	Part No.	Description	Qty.
19-1	301010036	Roller Brush Housing	1
19-2	251123002	Rear Skirt, Rubber	1
19-3	251123021	Clamp Plate, Rear Skirt	1
19-4	102010066	Screw, M3x6	9
19-5	251123023	Clamp Plate, Side Skirt	2
19-6	251123001	Side Skirt, Rubber	2
19-7	102010075	Screw, M4x10	8
19-8	251123011	Front Skirt, Rubber	2
19-9	251123022	Clamp Plate, Front Skirt	2

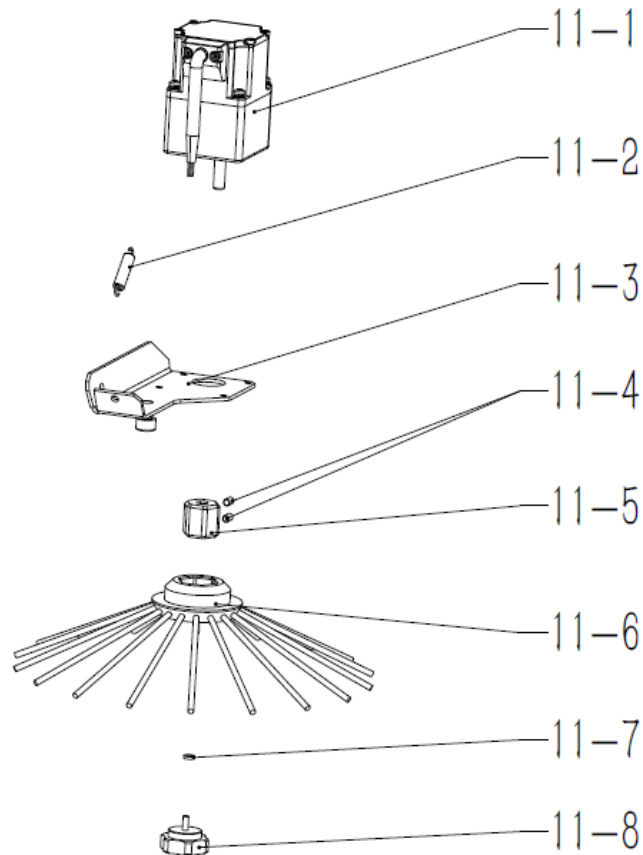
Brush Head Assembly – Baffle Mechanism



Item	Part No.	Description	Qty.
20-1	103170007	Baffle Motor, 24VDC	1
20-2	251124310	Mounting Bracket, Baffle Motor	1
20-3	102010067	Screw, M3x8	5
20-4	102020006	Bearing	1
20-5	251124321	Washer, 10×6.2×3mm	1
20-6	102010001	Screw, M3x5	2
20-7	102010132	Set Screw, M3x5	2
20-8	251124302	Synchronous Pulley, Driving	1
20-9	251124309	Magnet Mounting Bracket	1
20-10	102010249	Screw, M3x12	1
20-11	102060068	Magnet-10	1
20-12	102030010	Synchronous Belt, Baffle Motor	1
20-13	102010068	Screw, M3x10	1
20-14	551315140	Hall Sensor, 24VDC	1
20-15	251124510	Baffle Mounting Bracket	1
20-16	102060069	Hinge Pin	2
20-17	251124303	Rotating Trigger	3

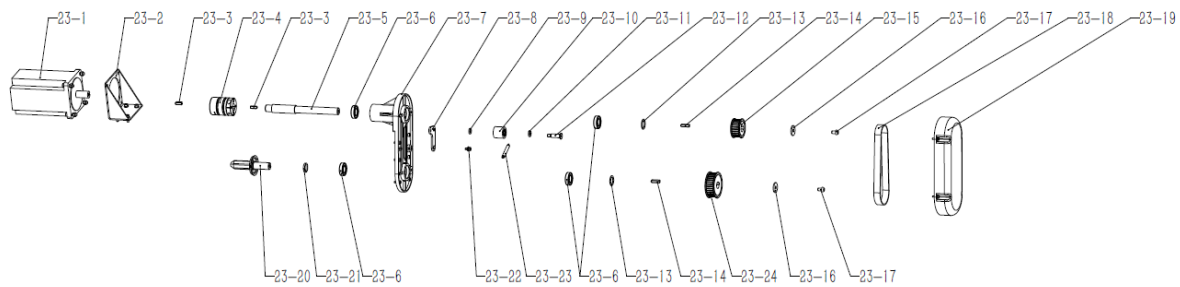
20-18	251124308	Dust Cover	1
20-19	251124307	Clamp Plate A, Baffle Skirt	1
20-20	251124306	Baffle Skirt, Rubber	1
20-21	251124311	Clamp Plate B, Baffle Skirt	1
20-22	102030011	Sleeve	2
20-23	251124305	Synchronous Pulley, Driven	1
20-24	251124304	Driveshaft, Baffle Motor	1

Brush Head Assembly – Right Side Brush Assembly



Item	Part No.	Description	Qty.
11-1	103170005	Side Brush Motor, 24VDC	1
11-2	102040016	Spring, Side Brush	1
11-3	251122001	Right Bracket, Side Brush	1
11-4	102010137	Screw	2
11-5	251121002	Side Brush Base	1
11-6	251121004	Side Brush	1
11-7	102010475	Self-locking Washer	1
11-8	102060059	Knob, Side Brush	1

Brush Head Assembly - Roller Brush Drive Assembly



Item	Part No.	Description	Qty.
23-1	103170006	Roller Brush Motor, 24VDC	1
23-2	251123212	Bracket, Roller Brush Motor	1
23-3	102060064	Flat Key	2
23-4	102020004	Coupling	1
23-5	251123311	Driveshaft, Roller Brush Motor	1
23-6	102020003	Bearing, 6902ddu	3
23-7	251123201	Mounting Plate, Roller Brush Motor	1
23-8	251123202	Tension Plate	1
23-9	251123221	Washer, 12×6.1×2mm	1
23-10	102030008	Tension Pulley	1
23-11	251123204	Washer, 13×8.1×2mm	1
23-12	102060063	Pin	1
23-13	251123208	Washer, 22×15.2×1mm	2
23-14	102060065	Flat Key	2
23-15	102030014	Synchronous Pulley, Driving	1
23-16	102010176	Washer, 22×6.6×2mm	2
23-17	102010058	Screw, M6x10	2
23-18	102030016	Synchronous Belt	1
23-19	251123211	Belt Cover, Plastic	1
23-20	251123203	Drive Shaft, Roller Brush	1
23-21	251123222	Washer, 20×15.2×3mm	1
23-22	102010254	Combination Screw, M4x8	1
23-23	102040017	Spring, φ1×6×45	1
23-24	102030015	Synchronous Pulley, Driven	1

Accessories

Item	Part No.	Description	Type	Qty.
1	103010001	Manual Charger, 100~240VAC, 28.8VDC 30A	Standard	1

Consumables

Item	Part No.	Description	Replacement Interval	Type	Qty.
1	251123300	Roller Brush	3 Months	Standard	1
2	251121004	Side Brush	3 Months	Standard	2
3	251131014	Dust Filter Bag	Weekly	Standard	1
4	251131015	HEPA	6 Months	Standard	1
5	251124306	Baffle Skirt, Rubber	Replace when damaged	Standard	1
6	251123001	Side Skirt, Rubber	Replace when damaged	Standard	2
7	251123021	Rear Skirt, Rubber	Replace when damaged	Standard	1
8	251123011	Front Skirt, Rubber	Replace when damaged	Standard	2
9	251124915	Side Brush Skirt, Rubber	Replace when damaged	Standard	2



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