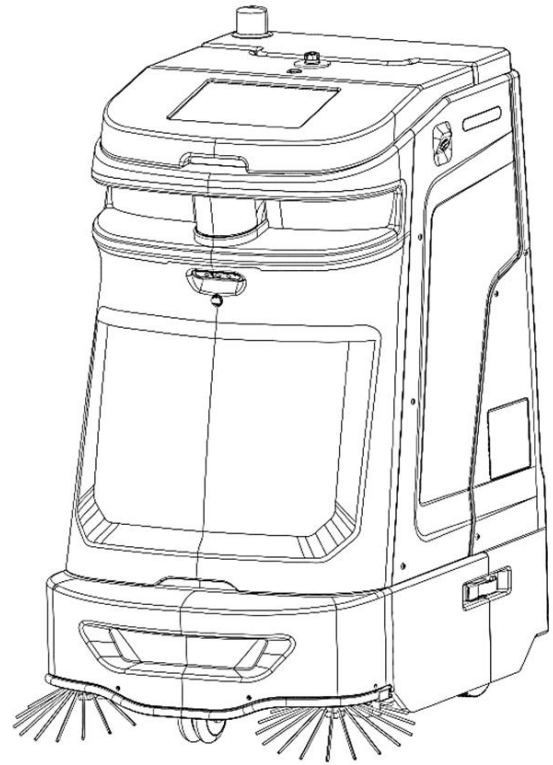


ANS720 Autonomous Vacuum Sweeper

PARTS MANUAL

590946020121



Version: V01

Truck Identification Number From :

Parts Manual

ANS720-PM01EN

Please order spare parts from authorized dealers of our Company.

In order to avoid wrong delivery, all the orders for spare parts should specify the following items:

- Truck model, identification number and manufacture year.
- Orders for spare parts of mast, hydraulic transmission unit, steering axle, motor, etc. shall indicate the manufacture number of these parts.
- Codes for Our Company spare parts are shown in the table of parts manual.

Please also pay attention to the description of supply status, order quantity, etc. (check the number listed in "Mark" column of the parts manual).

"Mark" Column:

The unmarked indicates the parts are in short supply cycle.

Number 1: supply as package. Indicating these that parts are small parts and seal parts, which are supplied in package unit and in short supply cycle.

Number 2: supply with constraints. Indicating that these spare parts are not in stock and will be prepared for production after receiving the order from customers, which are in long supply cycle.

Number 3: phasing-out supply. Indicating that these parts will be replaced by new parts due to technical improvements and the current stock will not be available when these parts run out. Please check the description of technical improvements notice.

Number 4: supply as assembly. Indicating that these parts are assembly parts defined by manufacture process, which cannot be supplied as a single part.

Number 5: check other tables.

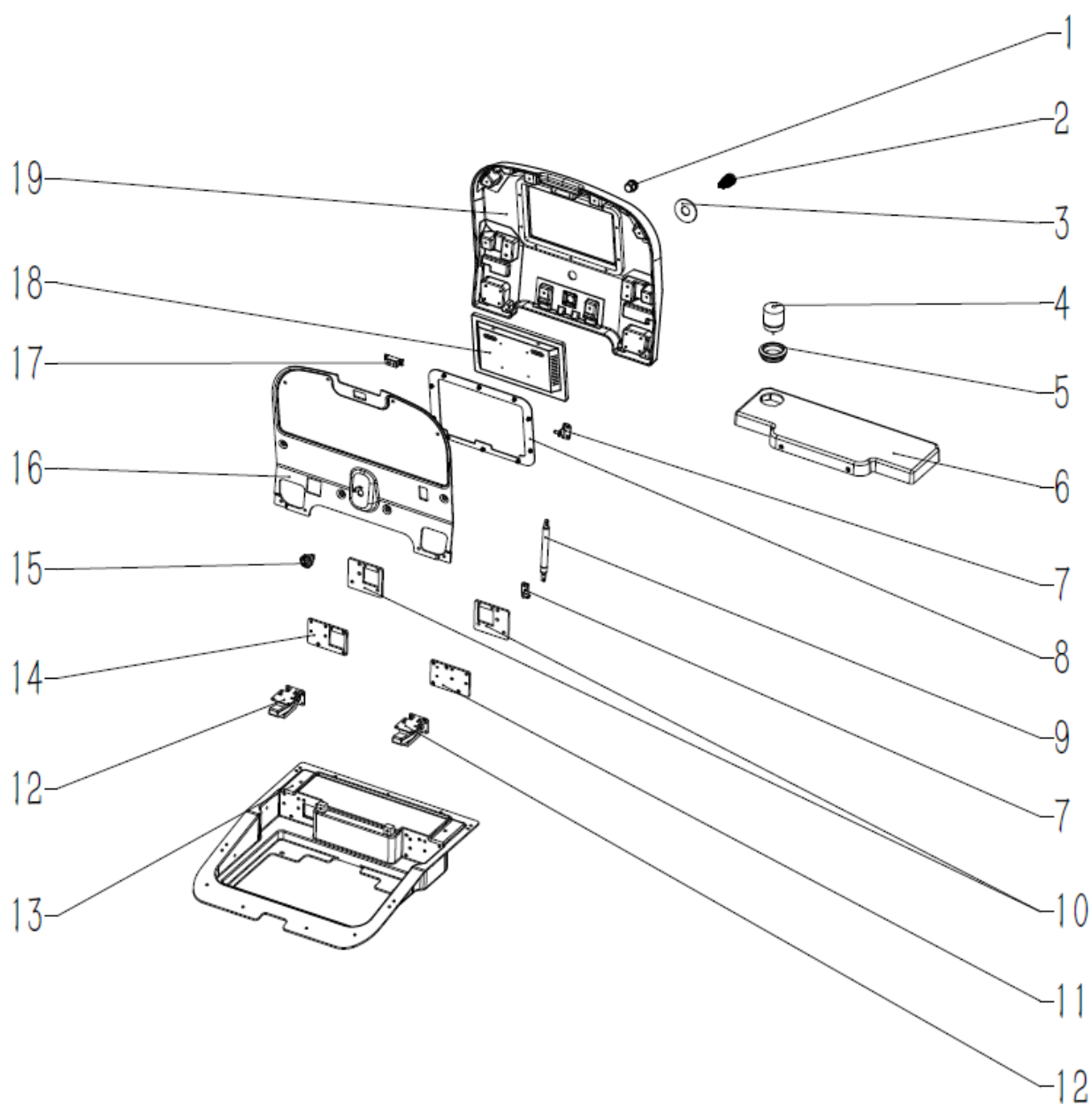
This parts manual is the property of Our Company and can be shared under the confidential agreement only, Our Company has the right to claim for compensation of any unauthorized use. Copy without permission is not allowed. Figures in the manual are not limited by the original design. our Company reserves the right to improve the products for continuous technology progress.

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Chapter 1: Body Structure

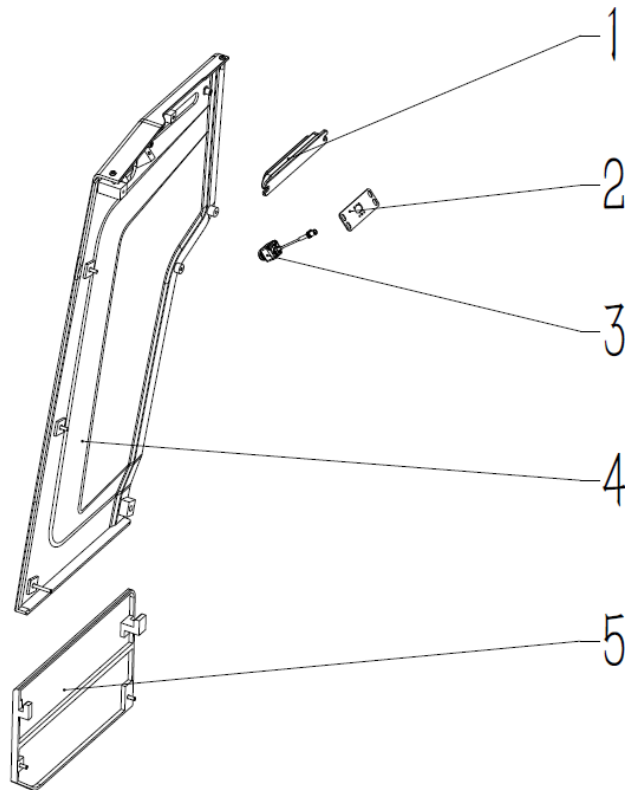
01 Top Lid (590946021521)



01 Top Lid (590946021521)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
1	590998520477		Auto/Manual Switch Button	1		
2	590998520475		Emergency Stop Button	1		
3	590998520273		Sticker, Emergency Stop	1		
4	590998520486		Flashing Beacon, 24VDC	1		
5	590998520355		Flashing Beacon Base, Rubber	1		
6	590998520332		Rear Top Cover of the Machine, Plastic	1		
7	590998520245		Mounting Bracket, Nitrogen Gas Spring	2		
8	590998520328		Mounting Bracket, Touch Screen	1		
9	590998520161		Nitrogen Gas Spring	1		
10	590998520358		Pad, Liner Cover	1		
11	590998520325		Left Bracket, Hinge	1		
12	590998520269		Hinge	2		
13	590998520333		Liner Cover, Plastic	1		
14	590998520326		Right Bracket, Hinge	1		
15	590998520476		Key Switch	1		
16	590998520331		Lower Cover, Top Lid of the Machine, Plastic	1		
17	590998520287		Magnet, Top Lid	1		
18	590998520179		Touch Screen	1		
19	590998520330		Upper Cover, Top Lid of Machine, Plastic	1		

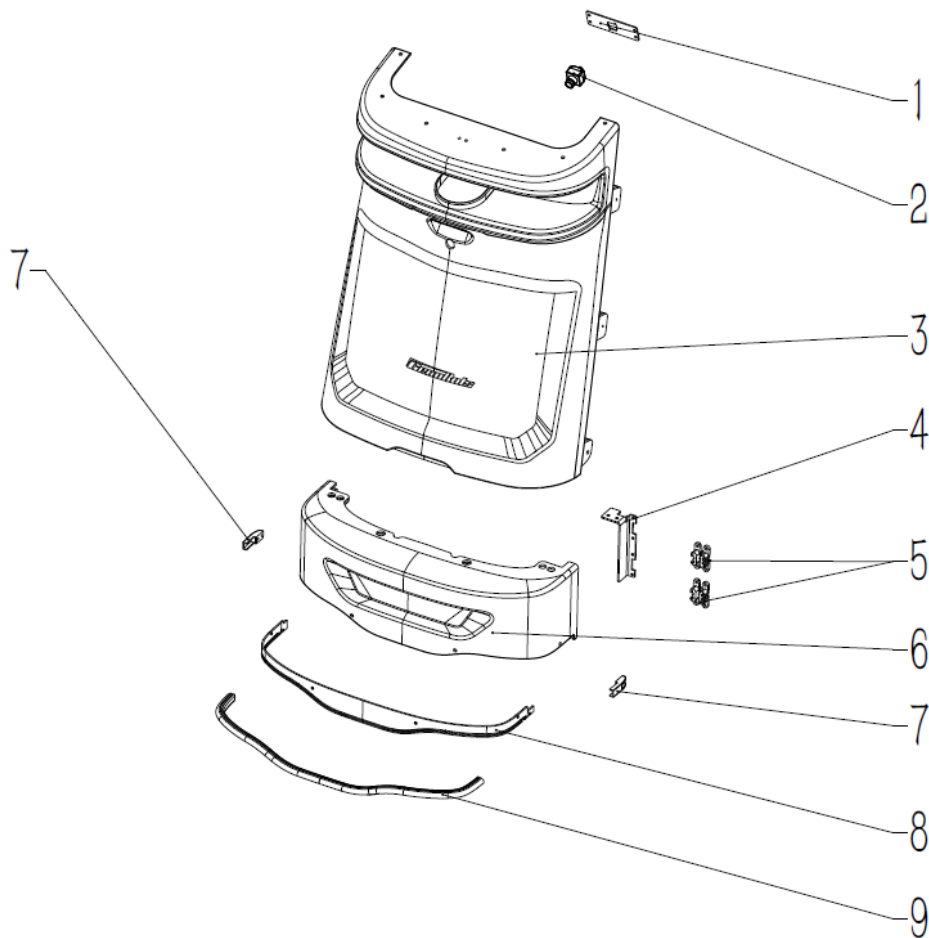
02 Right Cover (590946021522)



02 Right Cover (590946021522)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
1	590998520474		Indicator Light, 24VDC	1		
2	590998520327		Mounting Bracket, Side	1		
3	590998520181		Side Camera, 5VDC	1		
4	590998520335		Upper Right Cover, Plastic	1		
5	590998520339		Lower Right Cover, Plastic	1		

03 Front Cover (590946021523)

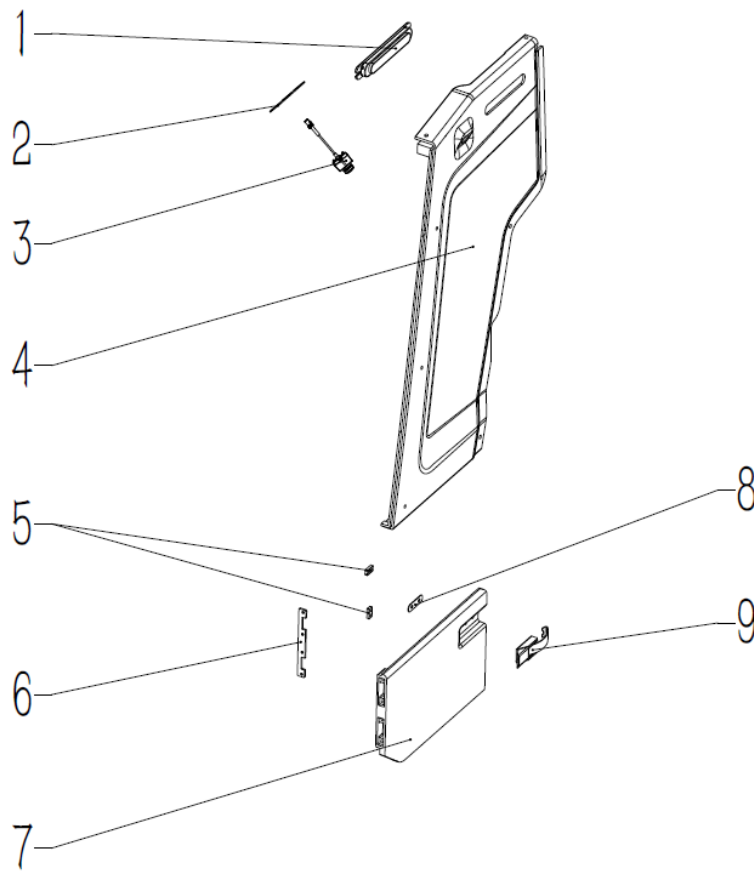


03 Front Cover (590946021523)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
1	590998520351		Mounting Bracket, Front Camera	1		
2	590998520180		Front Camera, 5VDC	1		
3	590998520336		Upper Front Cover of the Machine, Plastic	1		
4	590998520350		Mounting Bracket, Lower Front Cover	1		
5	590998520270		Concealed Hinge	2		
6	590998520340		Lower Front Cover of the Machine, Plastic	1		
7	590998520321		Cover, Bumper Sensor, Plastic	2		
8	590998520353		Bracket, Bumper Sensor	1		
9	590998520478		Bumper Sensor	1		

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

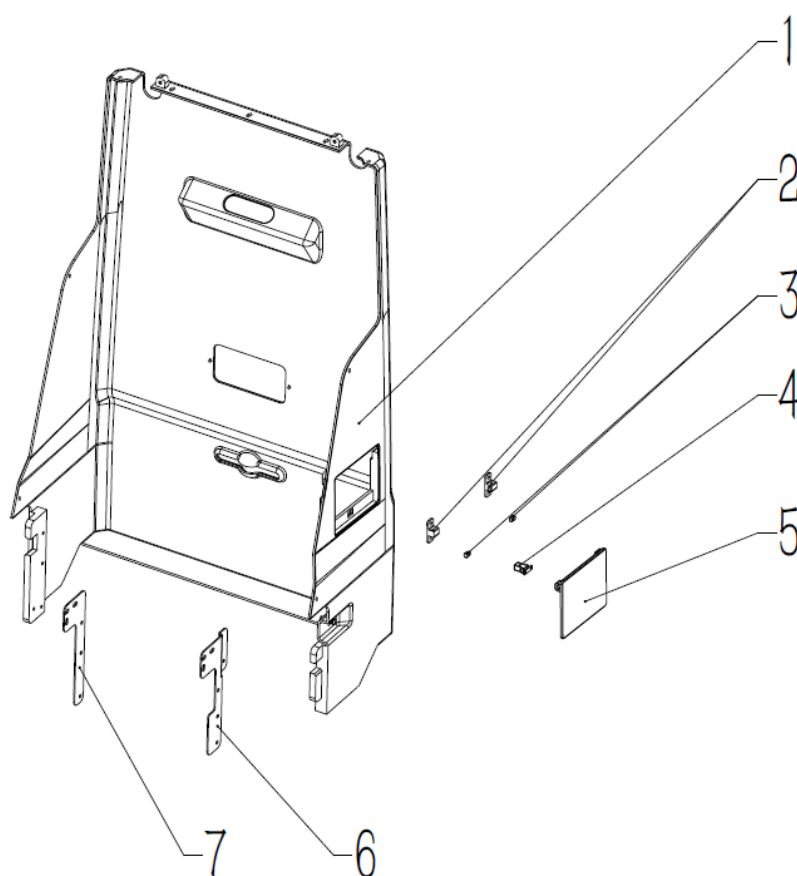
04 Left Cover (590946021524)



04 Left Cover (590946021524)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
1	590998520474		Indicator Light, 24VDC	1		
2	590998520327		Mounting Bracket, Side Camera	1		
3	590998520181		Side Camera, 5VDC	1		
4	590998520334		Upper Left Cover, Plastic	1		
5	590998520272		Magnet, Left Cover	2		
6	590998520352		Bracket, Concealed Hinge	1		
7	590998520338		Lower Left Door, Plastic	1		
8	590998520324		Shim, Lower Left Door	1		
9	590998520271		Latch, Lower Left Door	1		

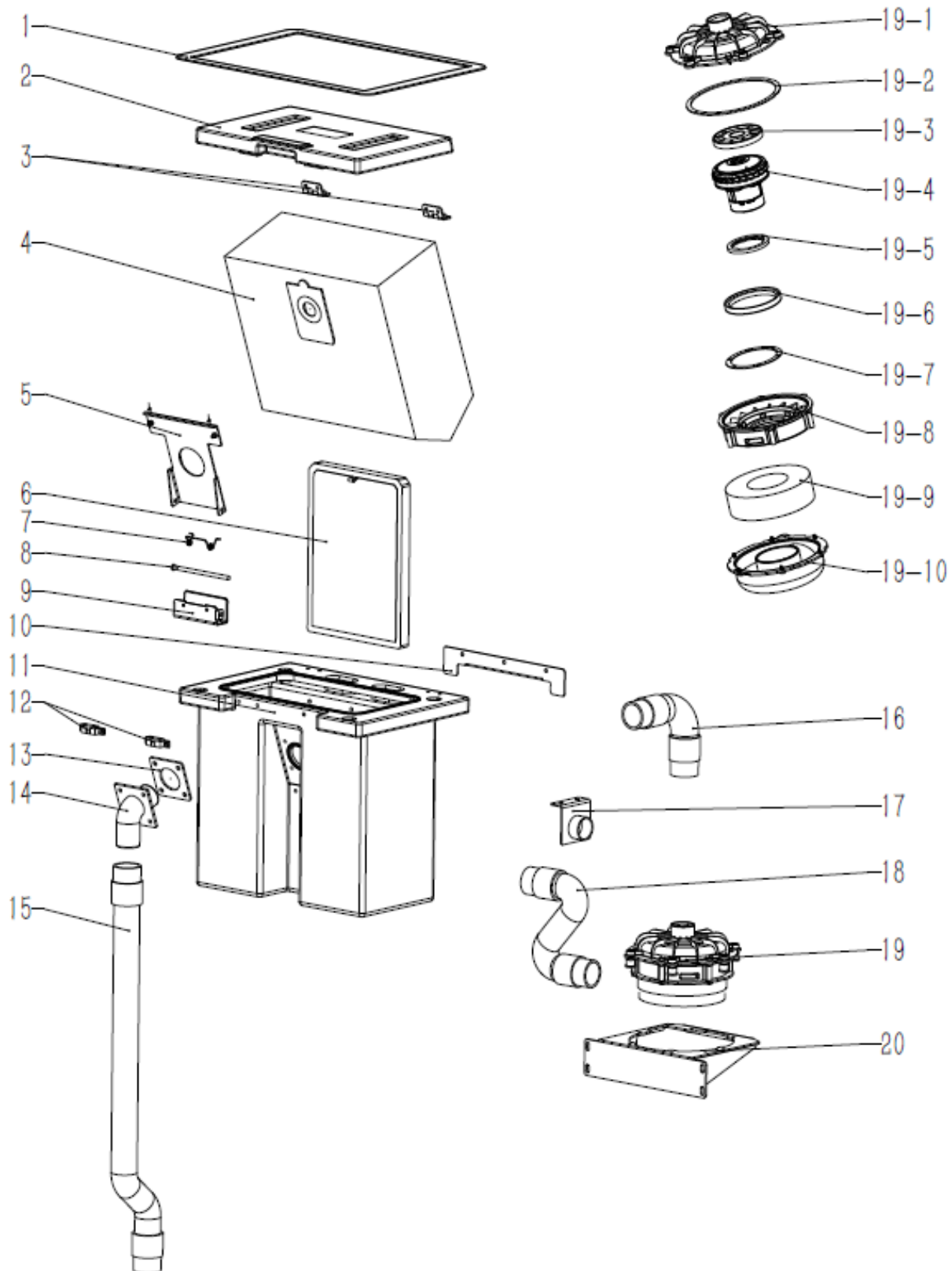
05 Rear Cover (590946021525)



05 Rear Cover (590946021525)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
1	590998520337		Rear Cover of the Machine, Plastic	1		
2	590998520342		Bracket, Dampening Hinge	2		
3	590998520286		Dampening Hinge, Load-Break Switch Cover	2		
4	590998520246		Push-to-open Latch	1		
5	590998520341		Cover, Load-break Switch and Manual Charging	1		
6	590998520348		Left Bracket, Rear Cover	1		
7	590998520349		Right Bracket, Rear Cover	1		

06 Vacuum System (590946021526)

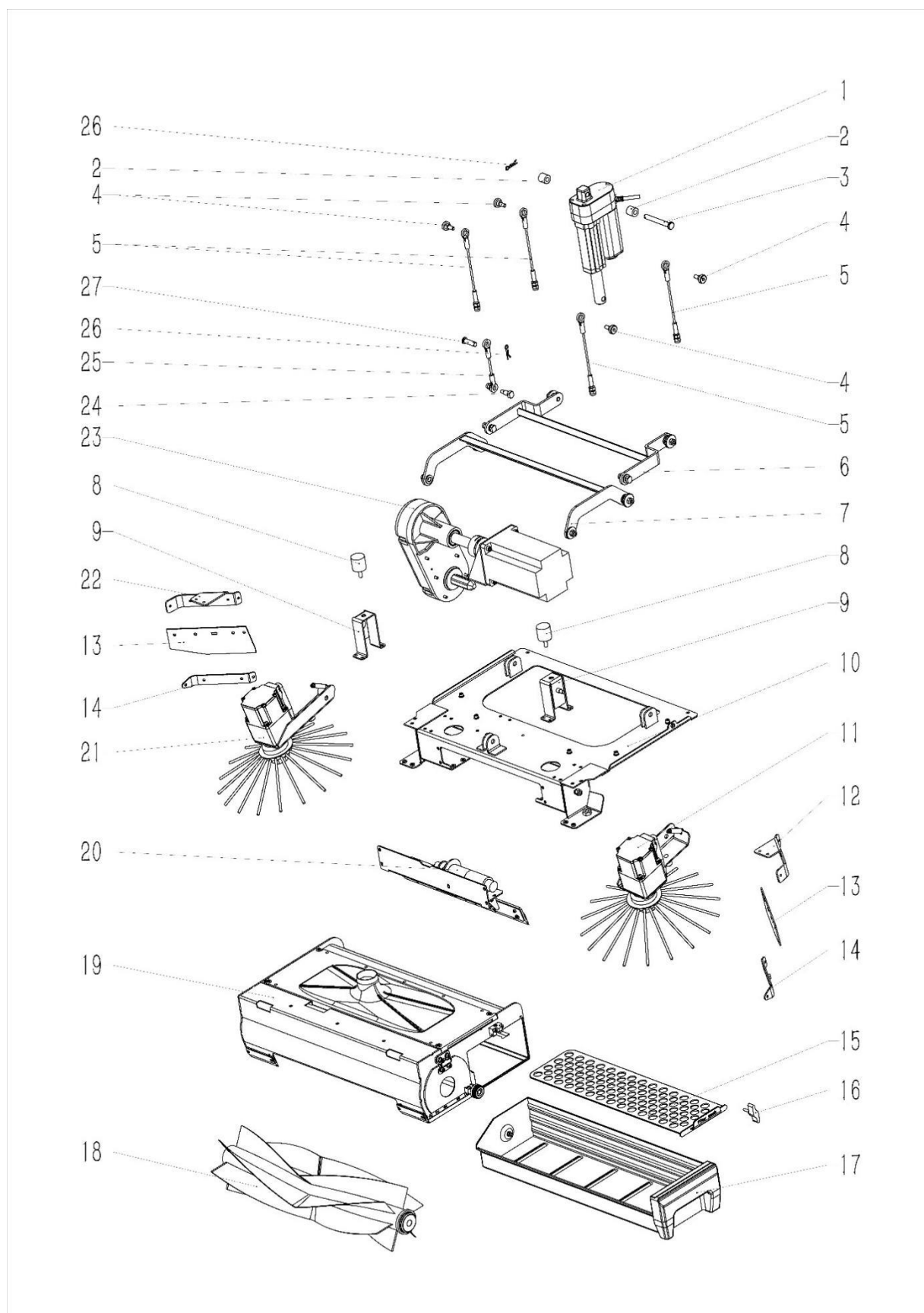


1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

06 Vacuum System (590946021526)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
1	590998520322		Dust Bin Edge Cover 1, Plastic	1		
2	590998520399		Dust Bin Lid, PE	1		
3	590998520284		Hinge, Dust Bin, SUS 304	2		
4	590998520208		Dust Filter Bag	1		
5	590998520404		Holder, Dust Filter Bag	1		
6	590998520211		HEPA	1		
7	590998520396		Torsion Spring, Dust Bin	1		
8	590998520288		Pin, Dust Filter Bag Holder, M6*110	1		
9	590998520400		Flap, Dust Filter Bag Holder	1		
10	590998520403		Mounting Bracket, HEPA	1		
11	590998520398		Dust Bin, PE	1		
12	590998520285		Latch, Dust Bin	2		
13	590998520402		Sealing Pad, Vacuum Hose, Rubber	1		
14	590998520401		Bend Tube, Vacuum Hose	1		
15	590998520397		Corrugated Vacuum Hose, Brush Head	1		
16	590998520409		Bend Tube, Dust Bin, Vacuum Motor	1		
17	590998520406		Bracket, Muffler, Exhaust, Vacuum Motor	1		
18	590998520408		Muffler, Exhaust, Vacuum Motor	1		
19	590998510013		Vacuum Motor Assembly	1		
19-1	590998510006		Upper Housing, Vacuum Motor Assembly	1		
19-2	590998510011		Sealing Ring, Vacuum Motor Assembly, EVA.	1		
19-3	590998510009		Silicone Part 1, Vacuum Motor Assembly	1		
19-4	590998520172		Vacuum Motor, 24VDC, 25kPa	1		
19-5	590998510010		Silicone Part 3, Vacuum Motor Assembly	1		
19-6	590998520414		Silicone Part 2, Middle Housing, Vacuum Motor	1		
19-7	590998510012		Baffle, Vacuum Motor Assembly	1		
19-8	590998510007		Middle Housing, Vacuum Motor Assembly	1		
19-9	590998510005		Sponge, Vacuum Motor Assembly	1		
19-10	590998510008		Lower Housing, Vacuum Motor Assembly	1		
20	590998510004		Bracket, Vacuum Motor Assembly	1		

07 Brush Head (590946021527)

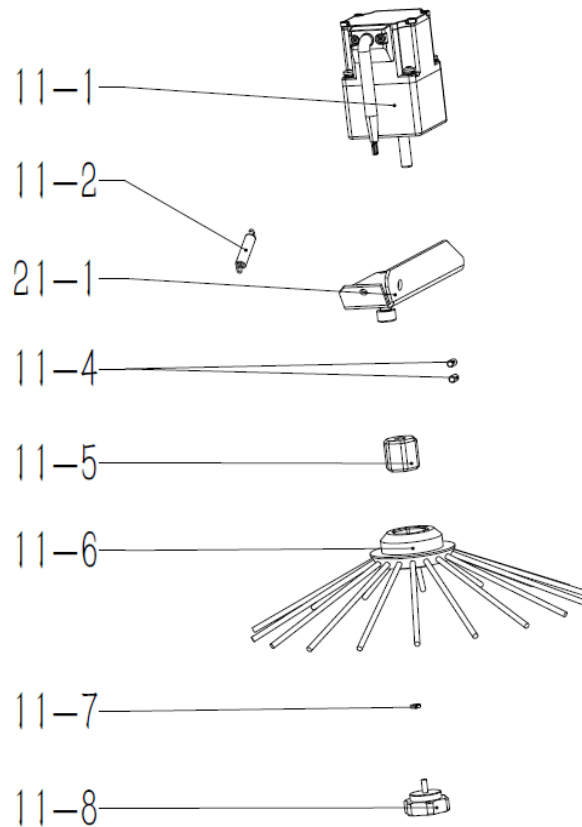


1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

07 Brush Head (590946021527)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
1	590998520182		Electric Linear Actuator, Stroke 50mm, 24VDC	1		
2	590998520238		Spacer Ring, Linear Actuator, Resin	2		
3	590998520232		Pin, Linear Actuator, 8x65x3.5	1		
4	590998520281		Nut-Fixed Hinge Pin	4		
5	590998520164		Limiting Wire Rope, Brush Head	4		
6	590998520360		Rear Linkage, Brush Head Lifting Mechanism	1		
7	590998520359		Front Linkage, Brush Head Lifting Mechanism	1		
8	590998520249		Damper, Rubber	2		
9	590998520381		Front Linkage Bracket	2		
10	590998520380		Bracket, Brush Housing	1		
11	590998510014		Left Side Brush Assembly	1		
12	590998520395		Left Bracket, Side Brush Rubber Strip	1		
13	590998520216		Side Brush Skirt, Rubber	2		
14	590998520394		Clamp Plate, Side Brush Rubber Strip	2		
15	590998520365		Filter Mesh	1		
16	590998520278		Spring Clip for Filter Mesh	1		
17	590998520464		Trash Tray	1		
18	590998520378		Roller Brush	1		
19	590998510015		Roller Brush Housing Assembly	1		
20	590998510016		Baffle Mechanism	1		
21	590998510017		Right Side Brush Assembly	1		
22	590998520393		Right Bracket, Side Brush Rubber Strip	1		
23	590998510018		Roller Brush Drive Assembly	1		
24	590998520282		Nut-Fixed Hinge Pin	1		
25	590998520165		Lifting Wire Rope, Brush Head	1		
26	590998520290		R-type Cotter Pin	2		
27	590998520283		Hinge Pin, Cotter Pin-Fixed	1		

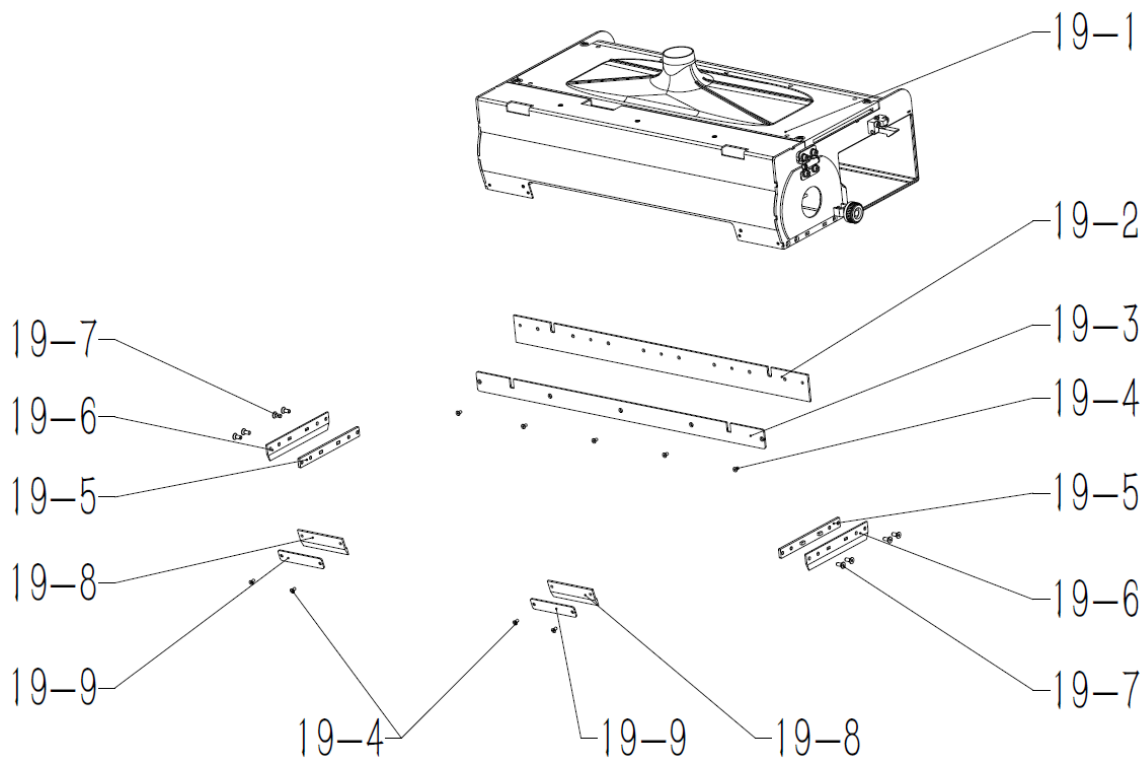
08 Brush Head-Left Side Brush (590946021528)



08 Brush Head-Left Side Brush (590946021528)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
11-1	590998520170		Side Brush Motor, 24VDC, 30W	1		
11-2	590998520247		Spring, Side Brush	1		
21-1	590998520181		Side Camera, 5VDC	1		
11-4	590998520227		Screw, M5x8	2		
11-5	590998520362		Side Brush Base	1		
11-6	590998520363		Side Brush	1		
11-7	590998520233		Self-locking Washer	1		
11-8	590998520274		Knob, Side Brush	1		

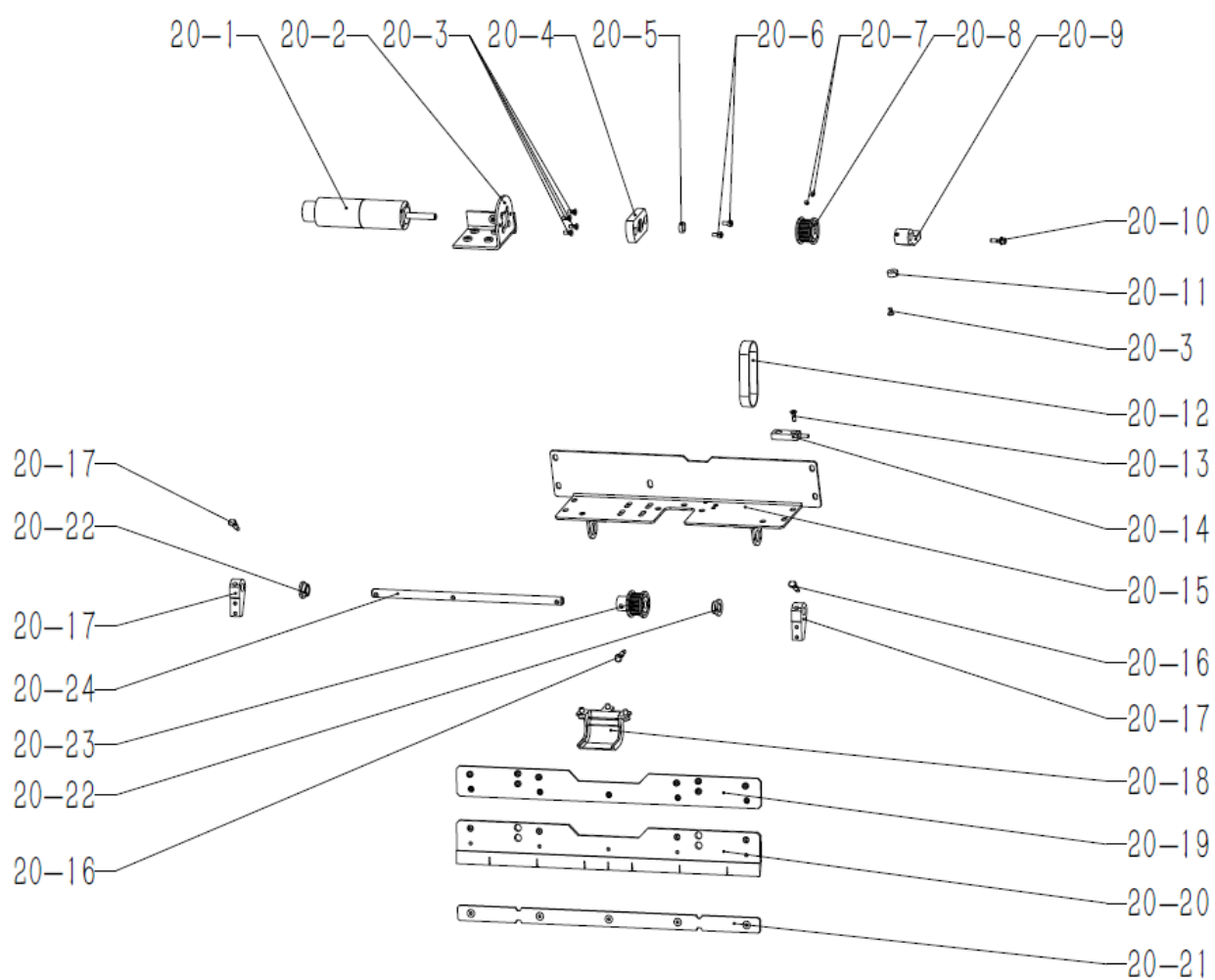
09 Brush Head-Roller Brush Housing (590946021529)



09 Brush Head-Roller Brush Housing (590946021529)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
19-1	590998520463		Roller Brush Housing	1		
19-2	590998520214		Clamp Plate, Rear Skirt	1		
19-3	590998520366		Rear Skirt, Rubber	1		
19-4	590998520222		Screw, M3x6	9		
19-5	590998520368		Clamp Plate, Side Skirt	2		
19-6	590998520213		Side Skirt, Rubber	2		
19-7	590998520225		Screw, M4x10	8		
19-8	590998520215		Front Skirt, Rubber	2		
19-9	590998520367		Clamp Plate, Front Skirt	2		

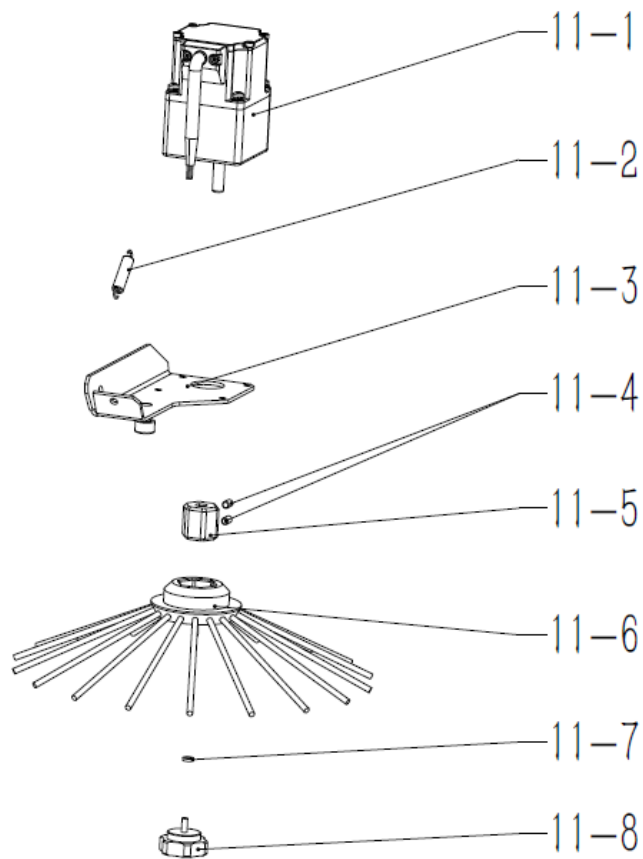
10 Brush Head-Baffle Mechanism (590946021530)



10 Brush Head-Baffle Mechanism (590946021530)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
20-1	590998520168		Baffle Motor, 24VDC	1		
20-2	590998520389		Mounting Bracket, Baffle Motor	1		
20-3	590998520223		Screw, M3x8	5		
20-4	590998520236		Bearing	1		
20-5	590998520391		Washer, 10×6.2×3mm	1		
20-6	590998520220		Screw, M3x5	2		
20-7	590998520226		Set Screw, M3x5	2		
20-8	590998520382		Synchronous Pulley, Driving	1		
20-9	590998520388		Magnet Mounting Bracket	1		
20-10	590998520229		Screw, M3x12	1		
20-11	590998520279		Magnet-10	1		
20-12	590998520163		Synchronous Belt, Baffle Motor	1		
20-13	590998520224		Screw, M3x10	1		
20-14	590998520473		Hall Sensor, 24VDC	1		
20-15	590998520392		Baffle Mounting Bracket	1		
20-16	590998520280		Hinge Pin	2		
20-17	590998520383		Rotating Trigger	3		
20-18	590998520387		Dust Cover	1		
20-19	590998520386		Clamp Plate A, Baffle Skirt	1		
20-20	590998520212		Baffle Skirt, Rubber	1		
20-21	590998520390		Clamp Plate B, Baffle Skirt	1		
20-22	590998520240		Sleeve	2		
20-23	590998520385		Synchronous Pulley, Driven	1		
20-24	590998520384		Driveshaft, Baffle Motor	1		

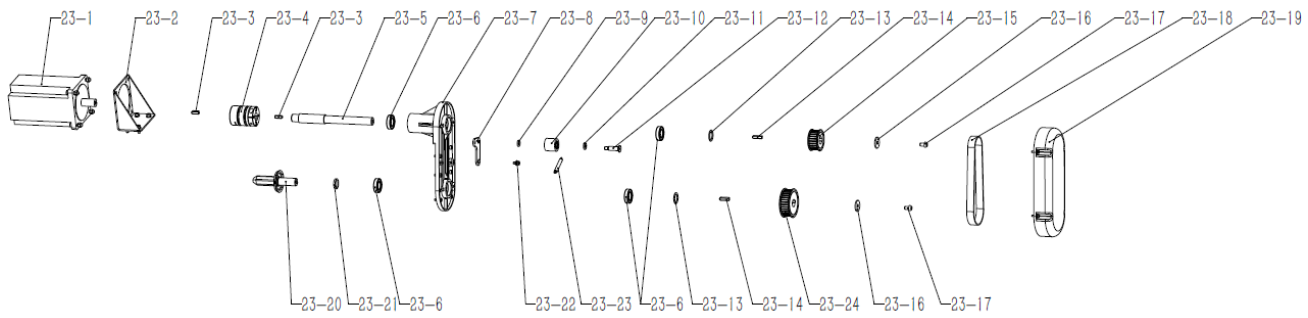
11 Brush Head-Right Side Brush (590946021531)



11 Brush Head-Right Side Brush (590946021531)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
11-1	590998520170		Side Brush Motor, 24VDC	1		
11-2	590998520247		Spring, Side Brush	1		
11-3	590998520364		Right Bracket, Side Brush	1		
11-4	590998520227		Screw, M5x8	2		
11-5	590998520362		Side Brush Base	1		
11-6	590998520363		Side Brush	1		
11-7	590998520233		Self-locking Washer	1		
11-8	590998520274		Knob, Side Brush	1		

12 Brush Head-Roller Brush Drive (590946021532)



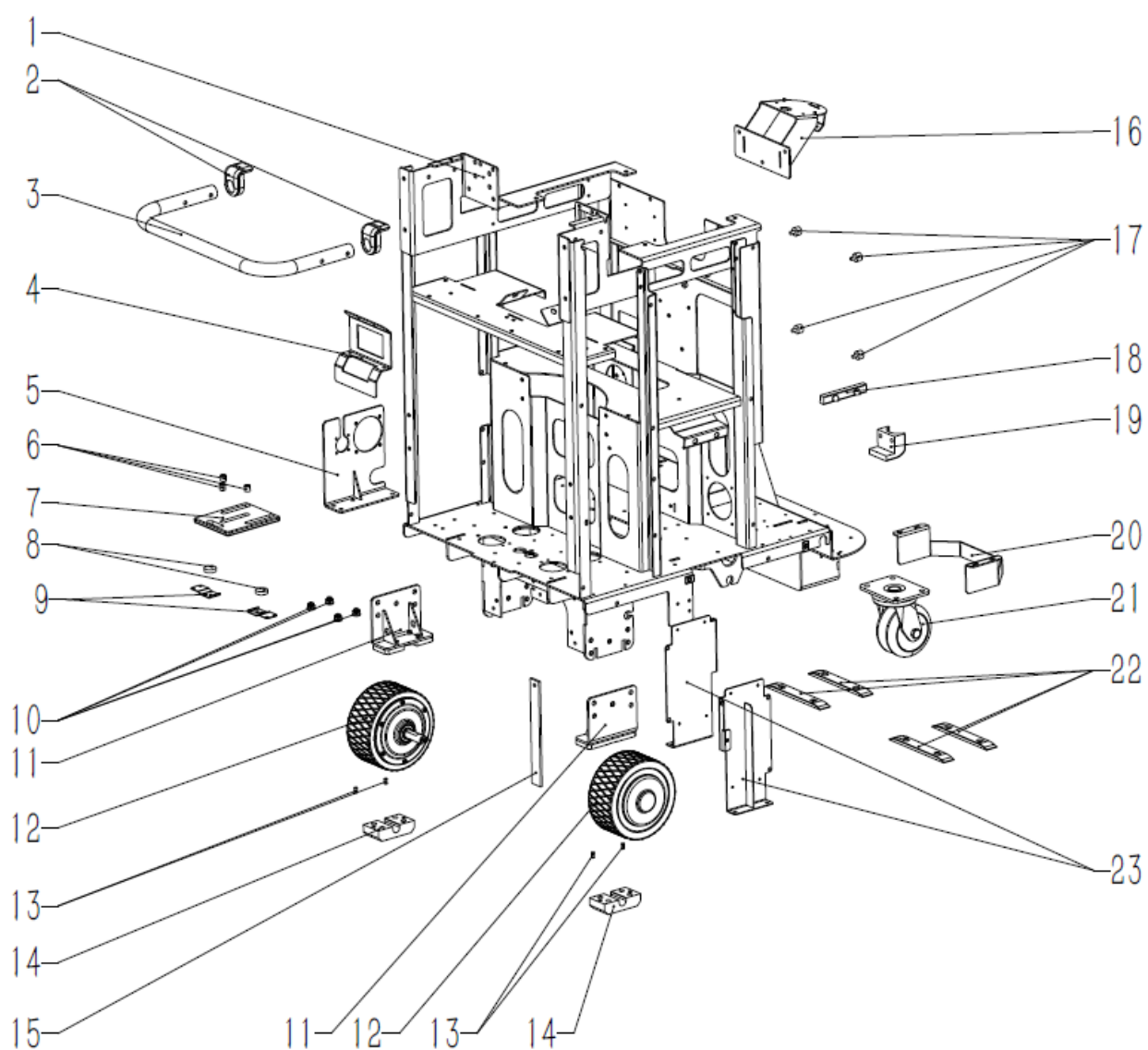
12 Brush Head-Roller Brush Drive (590946021532)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
23-1	590998520169		Roller Brush Motor, 24VDC	1		
23-2	590998520375		Bracket, Roller Brush Motor	1		
23-3	590998520276		Flat Key	2		
23-4	590998520235		Coupling	1		
23-5	590998520379		Driveshaft, Roller Brush Motor	1		
23-6	590998520234		Bearing, 6902ddu	3		
23-7	590998520369		Mounting Plate, Roller Brush Motor	1		
23-8	590998520370		Tension Plate	1		
23-9	590998520376		Washer, 12×6.1×2mm	1		
23-10	590998520239		Tension Pulley	1		
23-11	590998520372		Washer, 13×8.1×2mm	1		
23-12	590998520275		Pin	1		
23-13	590998520373		Washer, 22×15.2×1mm	2		
23-14	590998520277		Flat Key	2		
23-15	590998520241		Synchronous Pulley, Driving	1		
23-16	590998520228		Washer, 22×6.6×2mm	2		
23-17	590998520221		Screw, M6x10	2		
23-18	590998520243		Synchronous Belt	1		
23-19	590998520374		Belt Cover, Plastic	1		
23-20	590998520371		Drive Shaft, Roller Brush	1		
23-21	590998520377		Washer, 20×15.2×3mm	1		
23-22	590998520230		Combination Screw, M4x8	1		
23-23	590998520248		Spring, φ1×6×45	1		
23-24	590998520242		Synchronous Pulley, Driven	1		

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

Chapter 2: Electronic Control System

01 Chassis (590946037021)

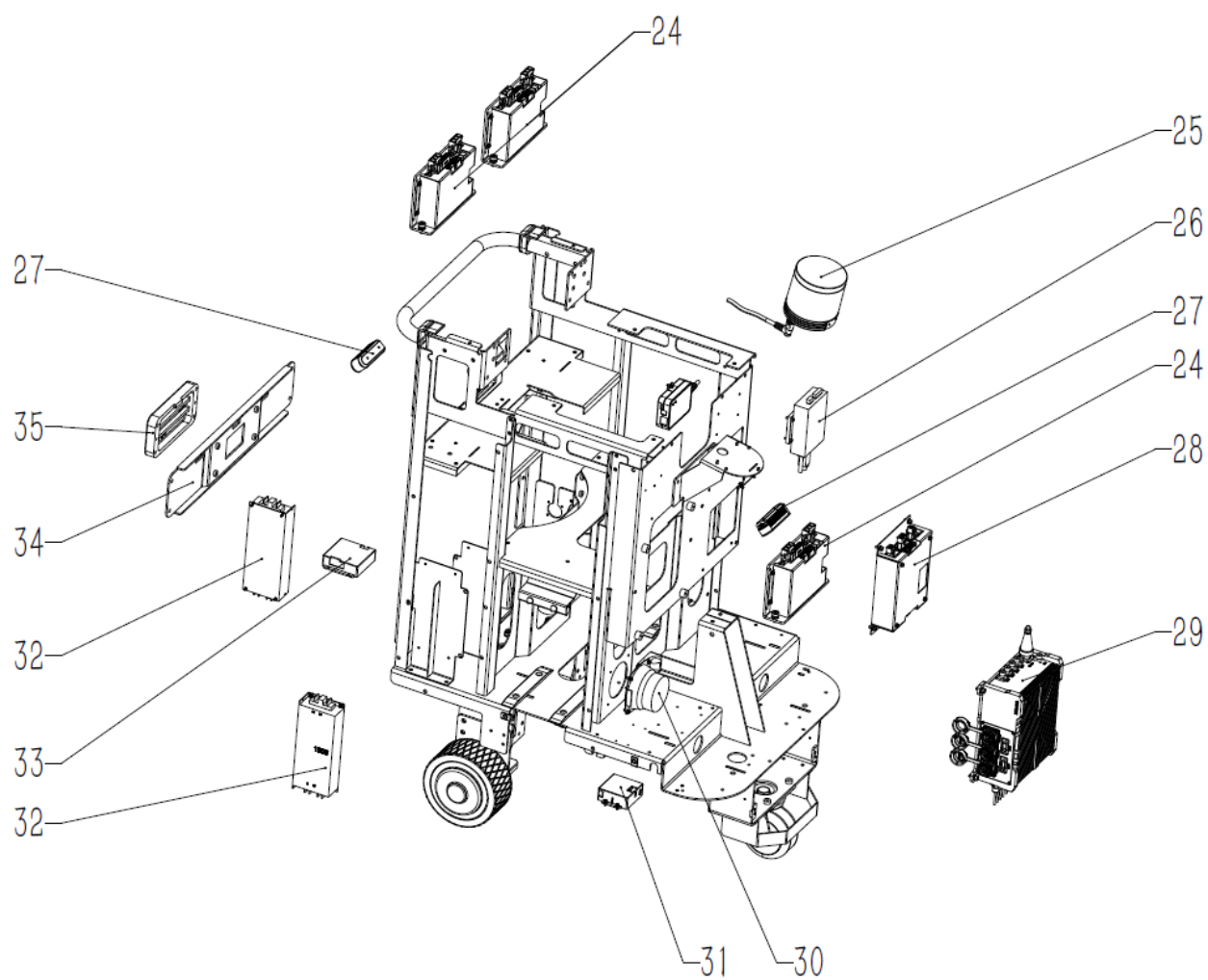


1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

01 Chassis (590946037021)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
1	590998520345		Main Frame	1		
2	590998520354		Handle Cover, Rubber	2		
3	590998520329		Handle	1		
4	590998520347		Mounting Bracket, Rear Depth Camera	1		
5	590998520356		Mounting Bracket, Load-break Switch	1		
6	590998520237		Sleeve, Pedal	3		
7	590998520313		Pedal	1		
8	590998520268		Magnet, Pedal	2		
9	590998520320		Mounting Bracket for the Magnet, Pedal	2		
10	590998520244		Oil Damper, IMU	4		
11	590998520315		Mounting Bracket for the Drive Wheel	2		
12	590998520160		Drive Wheel, 24VDC, 150W	2		
13	590998520231		Positioning Pin, Drive Wheel, M5x10	4		
14	590998520314		Mounting Clamp Plate for the Drive Wheel	2		
15	590998520319		Grounding Strip	1		
16	590998520346		Mounting Bracket, 3D LiDAR	1		
17	590998520250		Damper, ACU	4		
18	590998520344		Battery Cushion Pad	1		
19	590998520323		Vacuum Hose Protector Pad	1		
20	590998520318		Bracket, Bumper Sensor	1		
21	590998520188		Castor, 4inches	1		
22	590998520316		Battery Sliding Rail	4		
23	590998520317		Bracket, DC-DC Convertor	2		

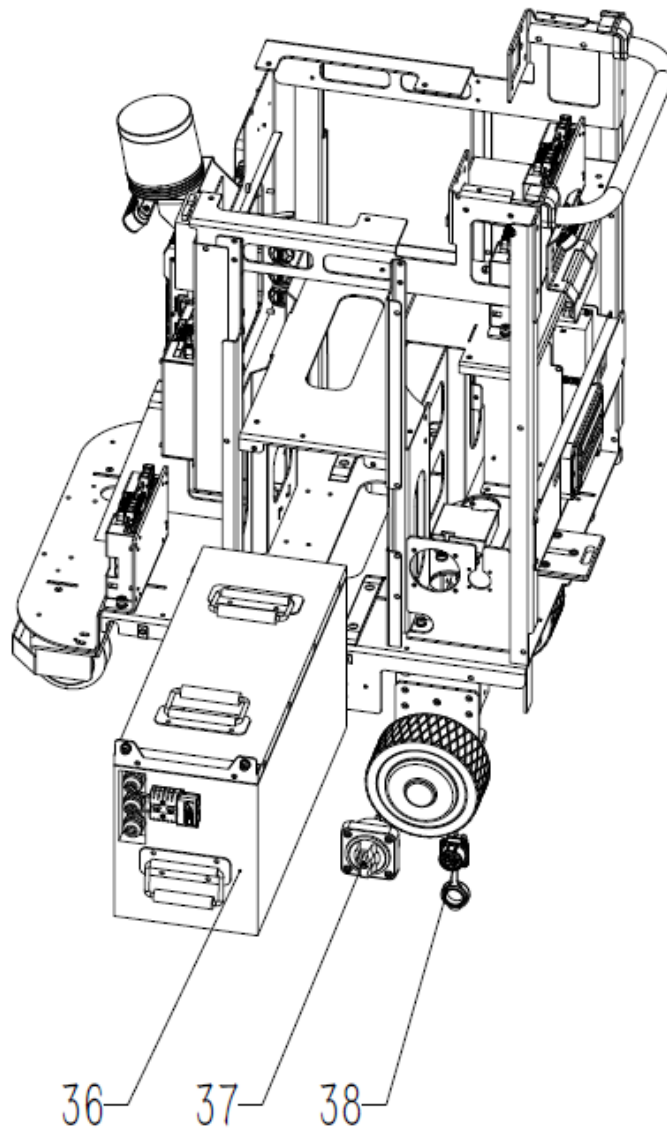
02 Chassis-Controller Unit (590946037022)



02 Chassis-Controller Unit (590946037022)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
24	590998520471		Motor Driver, 24VDC (Without Housing)	3		
25	590998520186		32-Beam 3D LiDAR, 24VDC	1		
26	590998520310		RS-485 to RS-232 Converter, 24VDC	1		
27	590998520178		Depth Camera, 5VDC	2		
28	590998520472		ECU, 24VDC (Without Housing)	1		
29	590998520189		ACU, 24VDC	1		
30	590998520307		Loudspeaker, 20W	1		
31	590998520469		Loudspeaker Power Amplifier, 24VDC (Without Housing)	1		
32	590998520297		DC-DC Converter Module, 24VDC, 150W	2		
33	590998520470		IMU, 24VDC (Without Housing)	1		
34	590998520357		Mounting Bracket, Charging Plate	1		
35	590998520465		Charging Plate, Automatic Charging	1		

03 Chassis-Power System (590946037023)



03 Chassis-Power System (590946037023)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
36	590998520299		Lithium Iron Phosphate Battery, 25.6 VDC, 2944 Wh	1		
37	590998520300		Load-break Switch	1		
38	590998520479		Manual Charging Connector	1		

Appendix

01 Accessories

No.	Item Code	Item Description	Qty.	Type
1	590998520194	Manual Charger, 100~240VAC, 28.8VDC	1	Standard

02 List Of Consumables

No.	Item Code	Item Description	Qty.	Chapter/ Section/ Number
1	590998520378	Roller Brush	1	Chapter /07/18
2	590998520363	Side Brush	2	Chapter /08/06、 /11/06
3	590998520208	Dust Filter Bag	1	Chapter /06/04
4	590998520211	HEPA	1	Chapter /06/06
5	590998520212	Baffle Skirt, Rubber	1	Chapter /10/20
6	590998520213	Side Skirt, Rubber	2	Chapter /09/06
7	590998520366	Rear Skirt, Rubber	1	Chapter /09/03
8	590998520215	Front Skirt, Rubber	2	Chapter /09/08
9	590998520216	Side Brush Skirt, Rubber	2	Chapter /07/13