Form No. 3472-876 Rev C

TORO®

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Parts Catalog

Range Pro™ 100

Robotic Ball Picker

Model No. 30931US—Serial No. 325000000 and Up

Register at www.Toro.com.
Original Instructions (EN)

3472-876 C

Ordering Replacement Parts

To order replacement parts, please supply the part number, the quantity, and the description of each part desired.

Understanding Reference Numbers

Each identified part in an illustration has a reference number. The reference number for a part also appears in the parts list, along with other information about the part.

This catalog uses two special reference number formats, one to indicate parts in a service assembly and another to indicate the quantity of a given part in an illustration.

Service Assembly Reference Numbers

Parts in service assemblies have reference numbers in the form a:b. The a represents the reference number of the entire service assembly and the b represents a sequential number unique to each part within the service assembly.

For example, a wheel assembly might be identified by reference number 6, the tire by 6:1, the valve by 6:2, and the wheel by 6:3. When you order the assembly identified by reference number 6, you receive all parts identified by reference numbers 6:1,6:2, and 6:3. However, you may also order any part individually. Reference numbers of this type appear in illustration and in parts lists.

Reference Numbers Indicating Quantity

In an illustration, if a reference number indicates more than one part, the reference number has the form nX y. The n represents the quantity of the part, the X is the multiplication symbol, and the y represents the reference number.

For example, in an illustration, the reference number 2X 37 means that two of the parts identified by reference number 37 are indicated.

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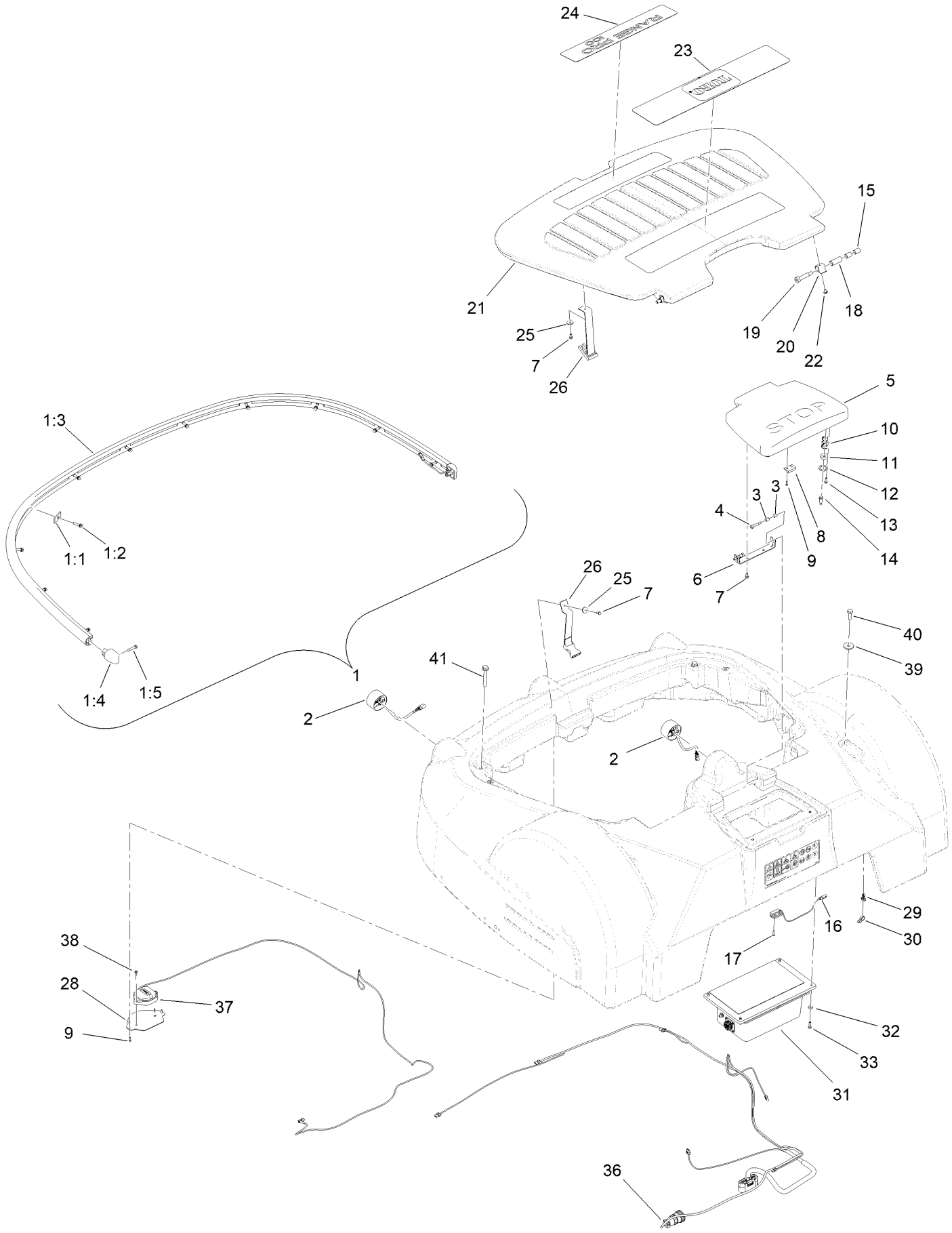
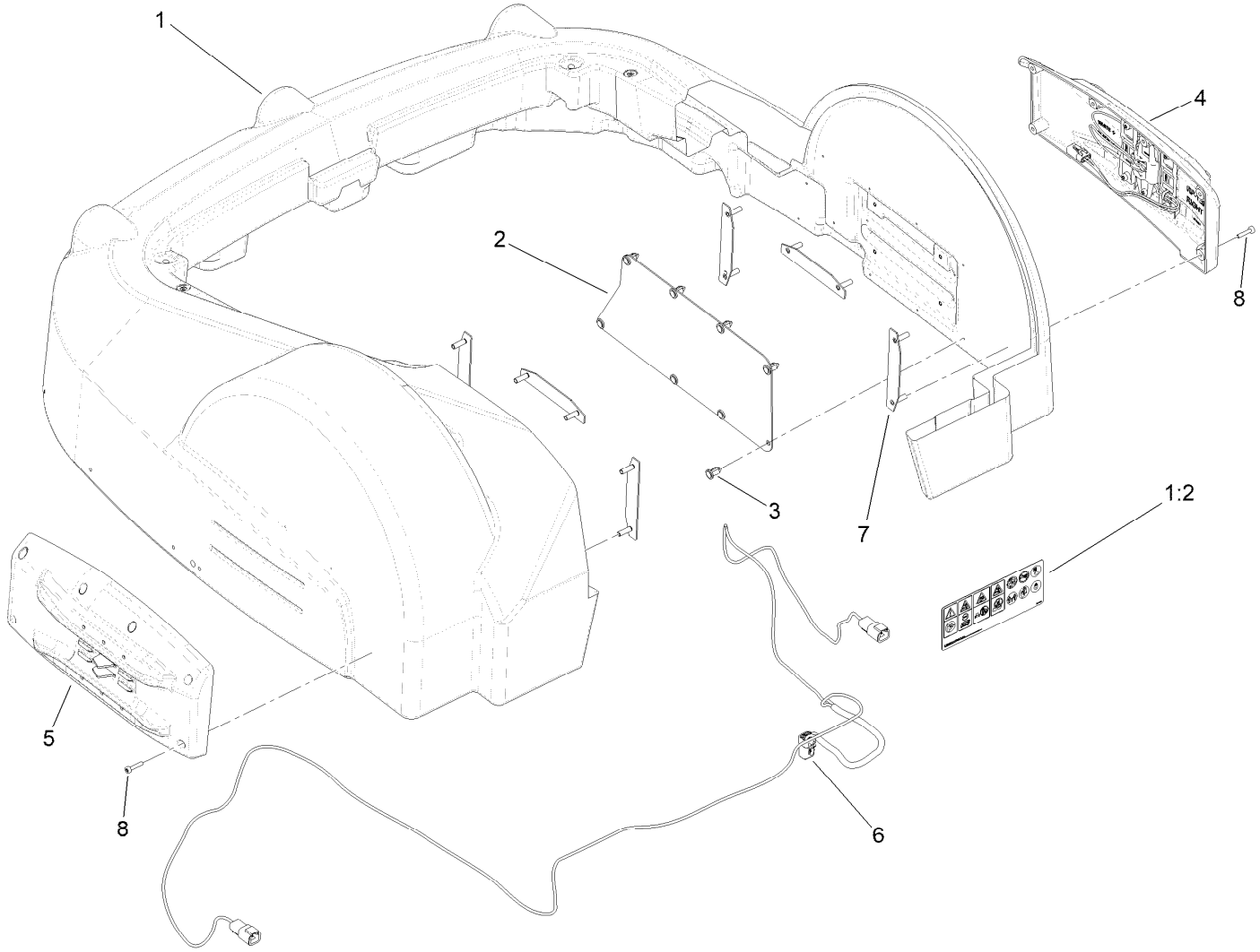
Body Assembly



Body Assembly (continued)

Ref.	Part Number	Qty.	Description
1	164-0086	1	Bumper Kit
1:1	163-5375	13	Plate-Nut
1:2	163-5374	13	Screw-HWH, Sems
1:3	164-0088	1	Bumper ASM
1:4	163-5373	2	End Cap, Bumper
1:5	163-5376	2	Screw-Pzph
2	164-0084	4	Sensor-Ultrasonic
3	163-5390	4	Spacer
4	163-5389	2	Screw-Shoulder
5	163-5391	1	Button-Stop
6	163-5397	1	Bracket-Hinge, Stop Button
7	163-5382	4	Screw-HH
8	163-5392	1	Magnet-Bonnet
9	163-5523	6	Screw-Pz, Plastic
10	163-5393	2	Spring-Compression
11	163-5394	2	Magnet
12	163-5395	2	Washer-Lock
13	163-5396	6	Screw-Pzfbh, Plastic
14	163-5388	2	Screw-Shoulder
15	163-5689	4	Spacer
16	163-5694	1	Harness-Stop Button
17	163-5380	2	Screw-Pzrh, Plastic
18	163-5690	2	Spacer
19	163-5688	2	Screw-Shoulder
20	163-5685	2	Hinge
21	163-5684	1	Hatch
22	163-5686	2	Screw-Hsbfh
23	163-3950	1	Decal-Toro
24	163-3978	1	Decal-Range Pro 100
25	163-5687	2	Washer-Flat
26	163-5698	1	Hatch Strap ASM
28	163-5867	1	Mount-Antenna, Rtk
29	163-5384	38	Mount-Cable Tie
30	3290-378	38	Tie-Cable
31	163-5584	1	Smartbox-Us
32	163-5554	4	Washer-Flat
33	163-5553	4	Screw-HH
36	163-5695	1	Harness-Stop Button
37	163-5558	1	Antenna-Rtk
38	163-5559	2	Screw-PPH
39	163-5400	2	Washer-Flat
40	163-5398	2	Screw-HH
41	163-3847	2	Screw-Hfh

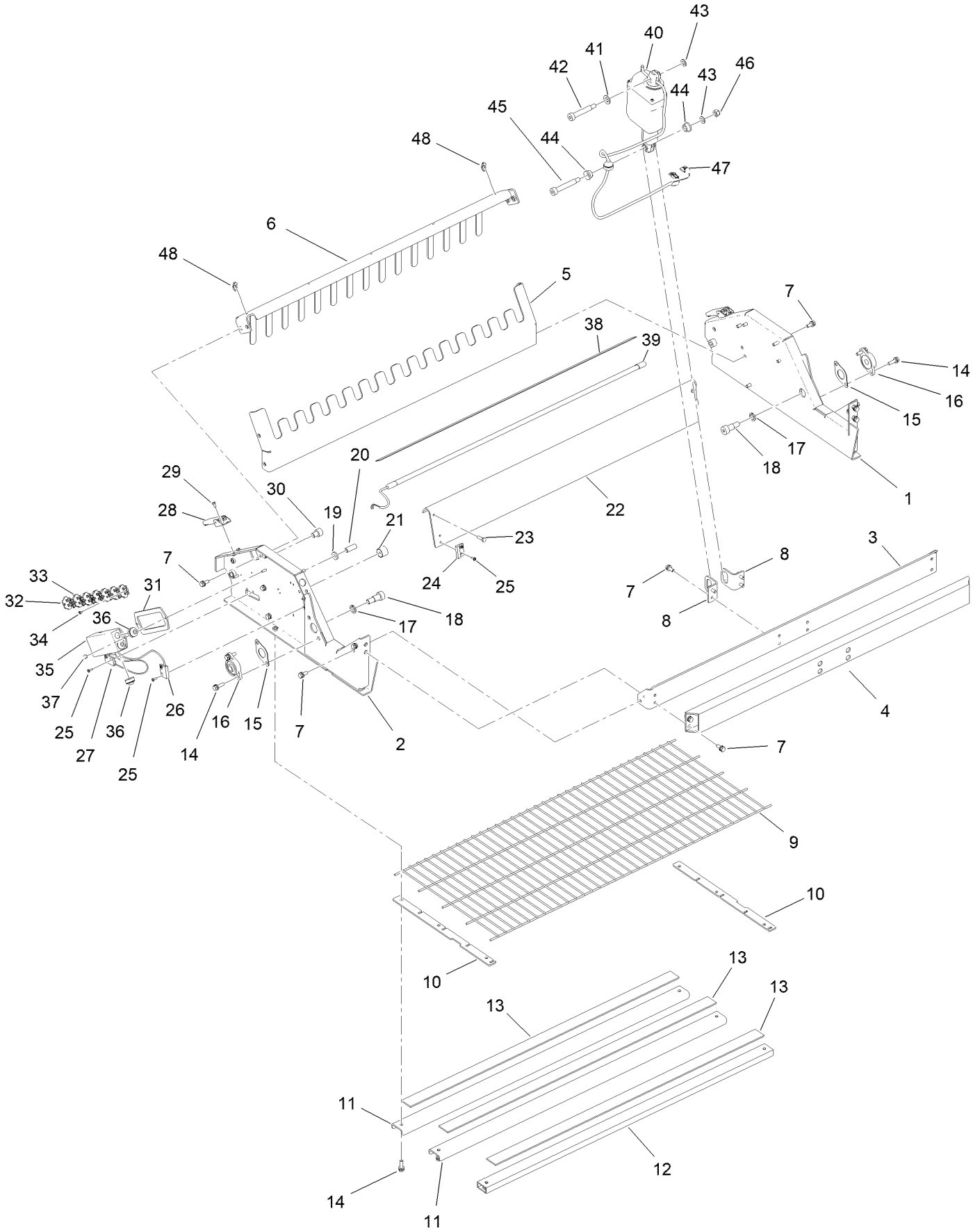
Charging Housing Assembly



Charging Housing Assembly (continued)

Ref.	Part Number	Qty.	Description
1	163-5369	1	Range Pro 100 Body Service ASM
1:2	163-3955	1	Decal-Panel
2	163-5691	2	Plate-Protection, Contacts
3	163-5387	16	Rivet-Push
4	163-5673	1	Charge Housing ASM, RH
5	163-5674	1	Charge Housing ASM, LH
6	163-5697	1	Charge Cable ASM
7	163-5565	6	Bracket-Mount, Housing
8	163-5566	12	Screw-Tph

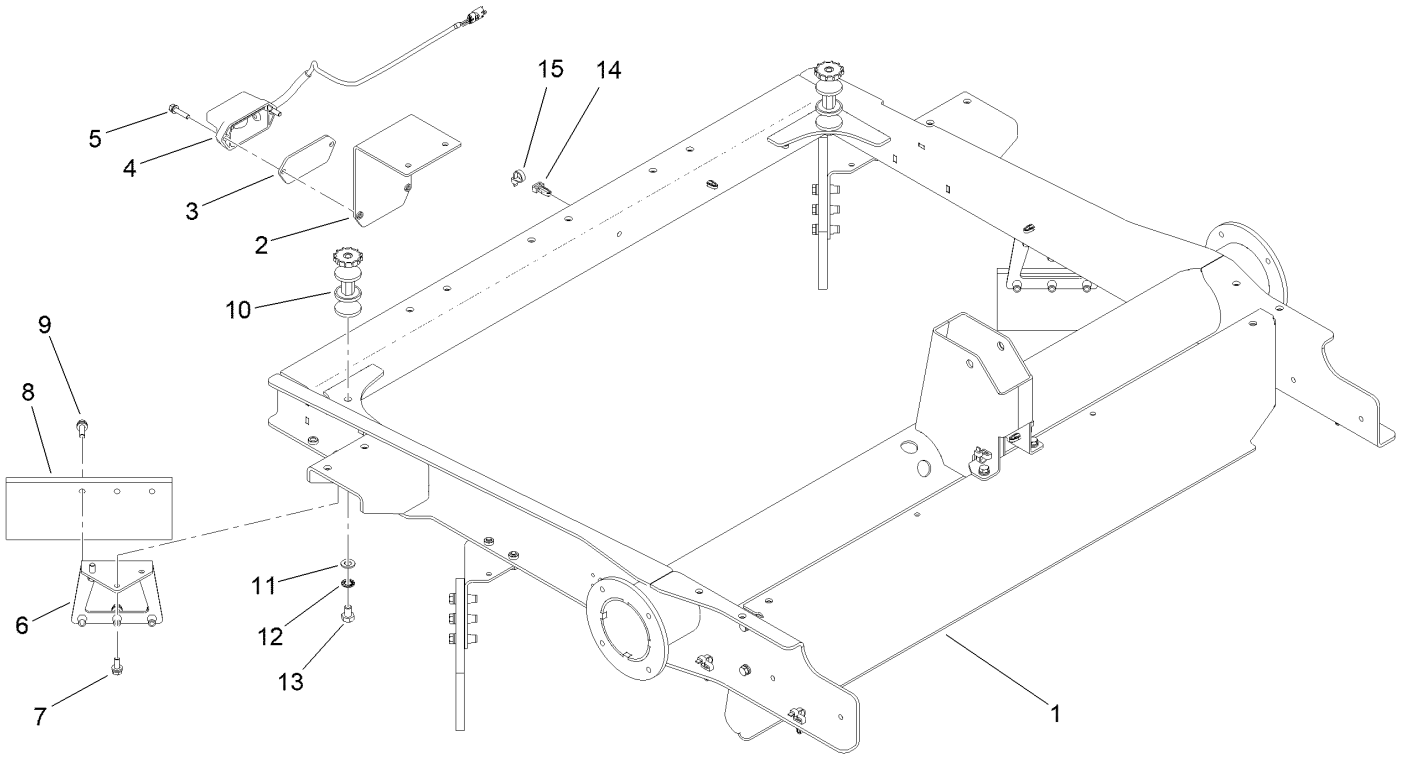
Collection Components Assembly



Collection Components Assembly (continued)

Ref.	Part Number	Qty.	Description
1	163-5730	1	Frame ASM-RH
2	163-5731	1	Frame ASM-LH
3	163-5733	1	Plate-Rear, Frame
4	163-5732	1	Crossbar-Rear, Frame
5	163-5736	1	Plate-Front, Frame
6	163-5737	1	Rake-Front
7	163-5408	20	Screw-HWH, Sems
8	163-5734	2	Bracket-Mount, Actuator
9	163-5742	1	Grid
10	163-5741	2	Plate-Positioning, Grid
11	163-5738	2	Crossbar-Grid
12	163-5739	1	Crossbar-Tube, Grid
13	163-5740	3	Pad-Rubber, Grid
14	163-5448	10	Screw-HWH, Sems
15	163-5743	2	Spacer-Bearing
16	163-5744	2	Bearing-Self Aligning
17	163-5746	2	Washer-Split Lock
18	163-5747	2	Screw-Shoulder
19	163-5748	2	Washer-Flat
20	163-5470	2	Spacer-Threaded
21	163-5749	2	Cushion-Cylindrical
22	163-5735	1	Panel-Detection, Full
23	163-5750	2	Screw-HH
24	163-5392	1	Magnet-Bonnet
25	163-5413	6	Screw-Hsbhf
26	163-5751	1	Cable-Tank, Full
27	163-5752	1	Cable-Blockage, Wheel
28	163-5753	2	Latch
29	163-5754	4	Screw-HH, Slotted
30	163-5755	2	Screw-SHCS
31	163-5756	1	Gasket-Foam, Terminal Block
32	163-5759	1	Lid-Block, Terminal
33	163-5760	6	Block-Terminal
34	163-5487	2	Screw-Hsbhf
35	163-5757	1	Cover-Terminal Block
36	163-5758	4	Grommet
37	163-5434	2	Nut-Hex, NI
38	163-5761	1	Adhesive-Double Sided
39	163-5762	1	Sensor-Counter
40	163-5763	1	Actuator-Linear
41	163-5765	1	Washer-Flat
42	163-5764	1	Screw-Shoulder
43	163-5502	2	Washer-Flat
44	163-5767	2	Bearing-Flanged
45	163-5766	1	Screw-Shoulder
46	163-5503	1	Nut-Hex, NI
47	163-5866	1	Cable-Actuator
48	1-303287	2	Tie-Cable

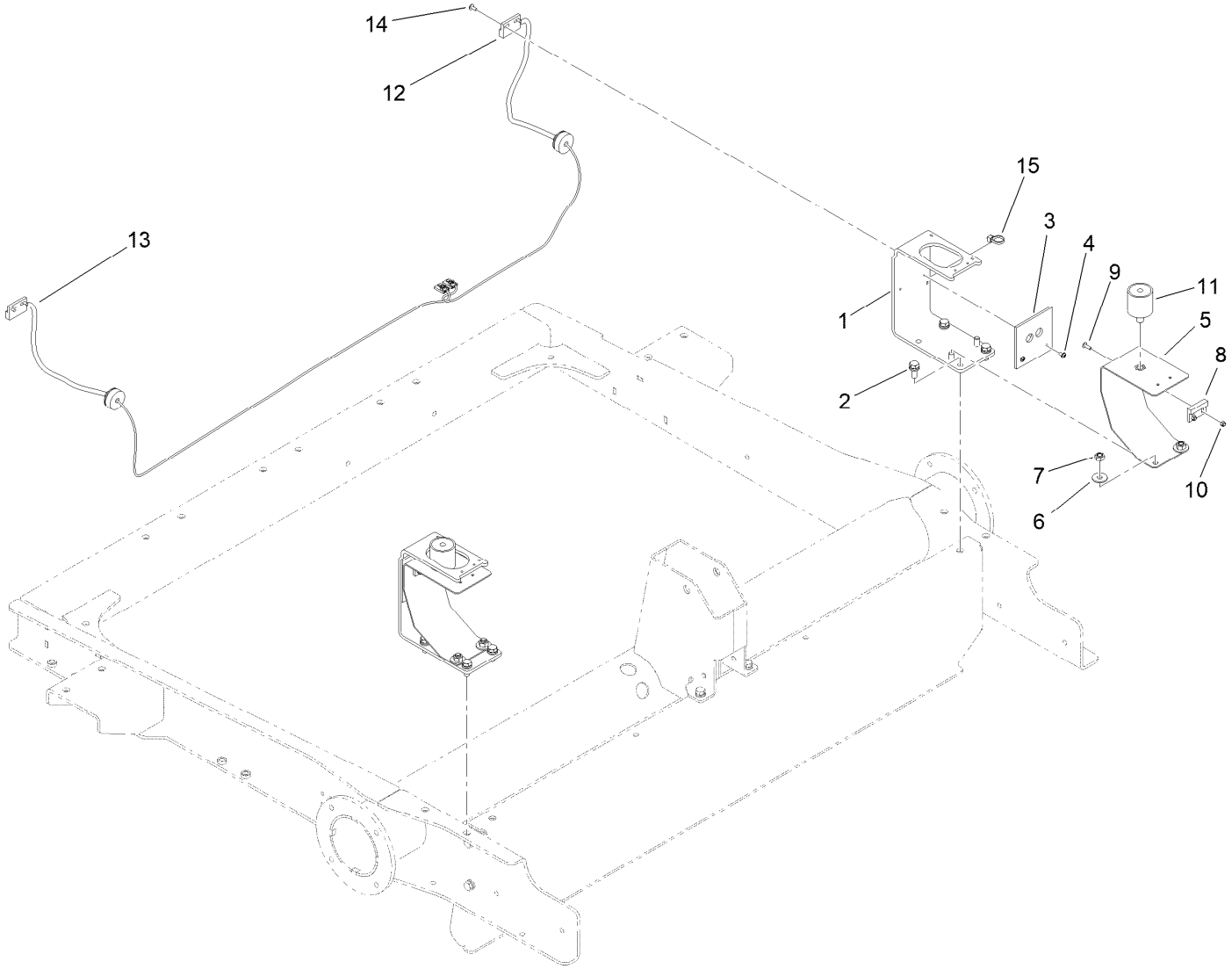
Main Frame Assembly



Main Frame Assembly (continued)

Ref.	Part Number	Qty.	Description
1	163-5745	1	Main Frame ASM
2	163-5768	1	Bracket-Mount, Coil
3	163-5404	1	Foam-Mount, Coil
4	163-5405	1	Coil
5	163-5374	2	Screw-HWH, Sems
6	163-5769	4	Support-Deflector
7	163-5408	8	Screw-HWH, Sems
8	163-5667	4	Deflector-Ball, Golf
9	163-5448	12	Screw-HWH, Sems
10	163-5479	2	Front Cushion ASM
11	163-5502	2	Washer-Flat
12	163-5770	2	Washer-Serrated
13	163-5771	2	Screw-HH
14	163-5384	12	Mount-Cable Tie
15	3290-378	12	Tie-Cable

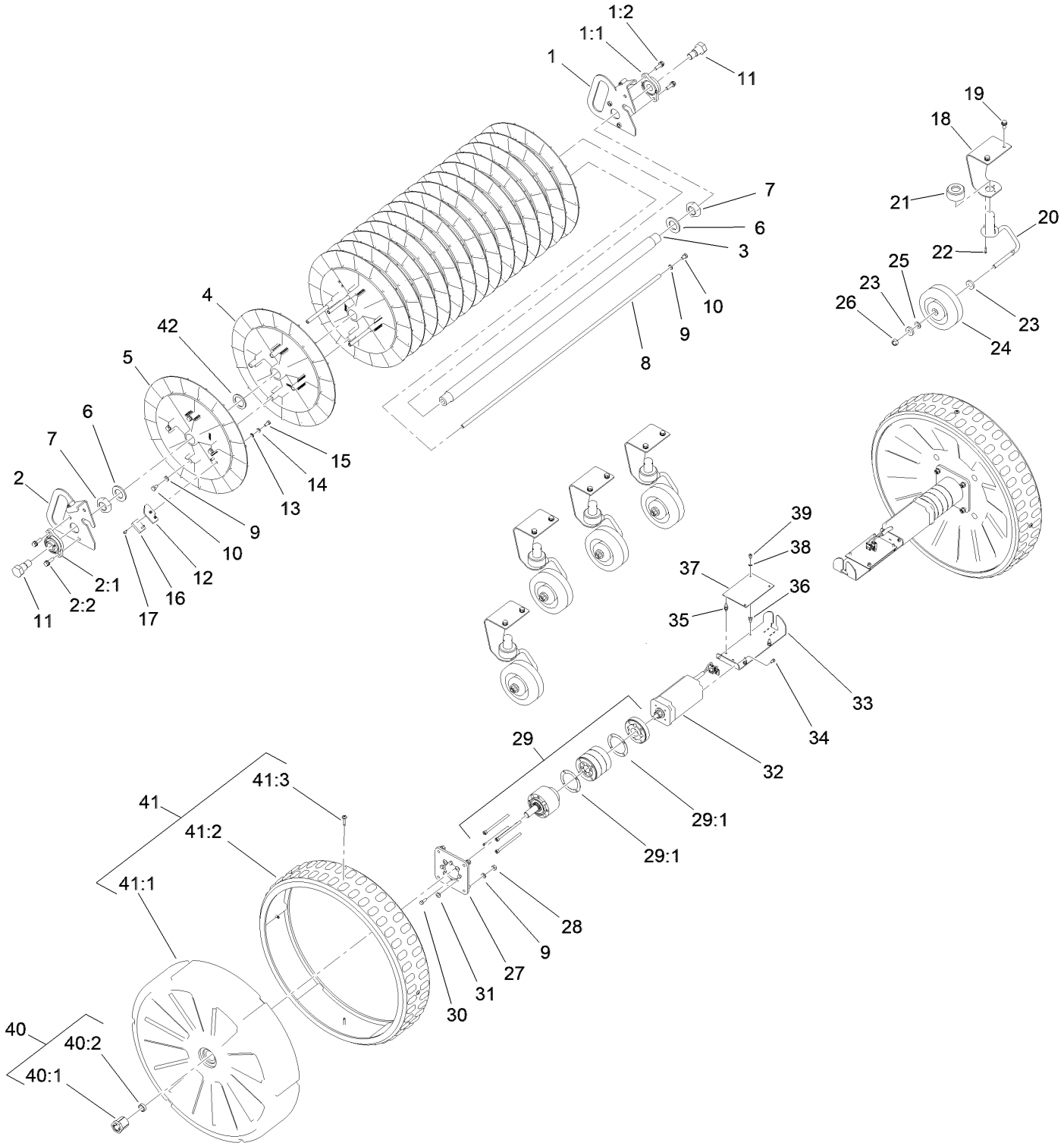
Sensors Assembly



Sensors Assembly (continued)

Ref.	Part Number	Qty.	Description
1	163-5486	2	Sensor Bracket ASM
2	163-5408	6	Screw-HWH, Sems
3	163-5488	2	Pad-Sensor, Rubber
4	163-5487	4	Screw-Hsbhf
5	163-5483	2	Sensor Spring ASM
6	163-5485	4	Washer-Flat
7	163-5416	4	Nut-Hex, NI
8	163-5392	2	Magnet-Bonnet
9	163-5413	4	Screw-Hsbhf
10	163-5484	4	Nut-Hex, NI
11	163-5489	2	Isolator
12	163-5772	1	Cable-Sensor, RH Rear
13	163-5773	1	Cable-Sensor, LH Rear
14	163-5421	4	Screw-Hsbhf
15	1-303287	2	Tie-Cable

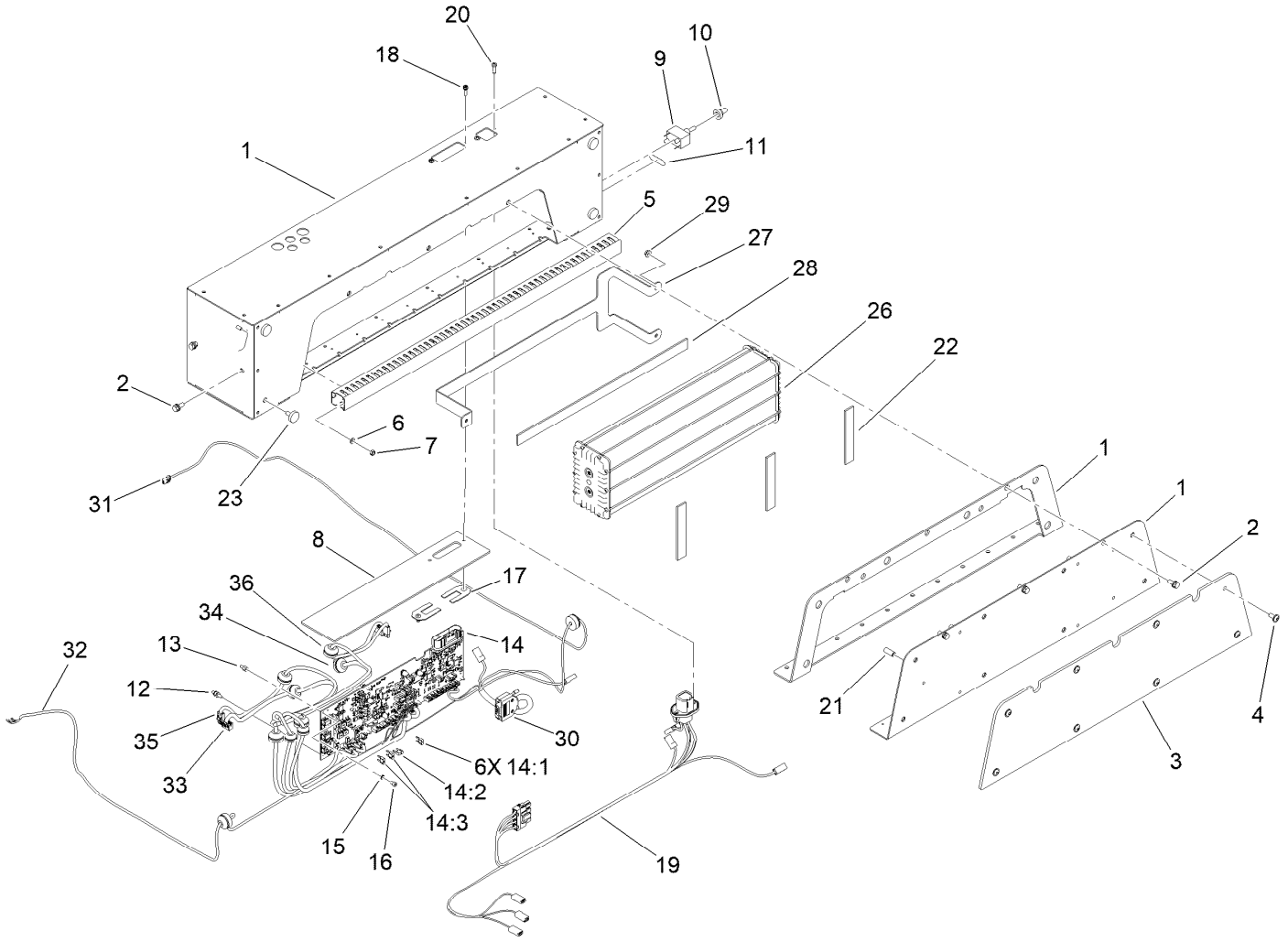
Wheels and Drive Motor Assembly



Wheels and Drive Motor Assembly (continued)

Ref.	Part Number	Qty.	Description
1	163-5777	1	Handle-Picker, RH
1:1	163-5776	1	Bearing-Self Aligning
1:2	163-5448	2	Screw-HWH, Sems
2	163-5778	1	Handle-Picker, LH
2:1	163-5776	1	Bearing-Self Aligning
2:2	163-5448	2	Screw-HWH, Sems
3	163-5774	1	Shaft-Wheel, Picker
4	163-5781	15	Disk-Picker
5	163-5782	1	Disk-Picker, Outer
6	163-5779	2	Washer-Flat
7	163-5780	2	Nut-Hex, Thin
8	163-5775	4	Rod-Wheel, Picker
9	163-5417	16	Washer-Flat
10	163-5784	8	Screw-HH
11	163-5785	2	Screw-Shoulder
12	163-5786	1	Mount-Magnet, Picker
13	163-5787	2	Washer-Tooth
14	163-5383	2	Washer-Flat
15	163-5788	2	Screw-HH
16	163-5392	1	Magnet-Bonnet
17	163-5413	2	Screw-Hsbhf
18	163-5498	5	Bracket-Mount,Wheel, Front
19	163-5408	10	Screw-HWH, Sems
20	163-5497	5	Front Wheel Hub ASM
21	163-5499	5	Support-Hub, Wheel, Front
22	163-5500	20	Screw-Pzph
23	HDW19425	10	Washer,M8,21MM OD,4MM Th,ST/ST
24	163-5501	5	Wheel-Front
25	163-5502	5	Washer-Flat
26	163-5503	5	Nut-Hex, NI
27	163-5789	2	Plate-Gearmotor
28	163-5416	8	Nut-Hex, NI
29	163-5681	2	Gearbox
29:1	164-2981	2	Gasket-Gearbox
30	163-5505	8	Screw-HH
31	163-5509	8	Plug-Cap, Round
32	163-5683	2	Motor-Wheel, Slope
33	163-5790	2	Support-Card, Drive
34	163-5754	4	Screw-HH, Slotted
35	163-5544	6	Support-Pcb
36	163-5545	2	Spacer-Hex, Pcb
37	163-5652	2	Card-Drive, Traction
38	163-5552	2	Washer-Tooth, EXT
39	163-5551	2	Screw-HSH
40	163-5495	2	Rear Wheel Retainer Kit
40:1	163-5493	1	Wheel Retainer ASM
40:2	163-5494	1	Spacer
41	163-5560	2	Rear Wheel ASM
41:1	163-5490	1	Rear Wheel Hub ASM
41:2	163-5491	1	Tire-Rear
41:3	163-5492	4	Screw-Pbhf
42	163-5783	1	Shim

Electrical Box and Battery Assembly



Electrical Box and Battery Assembly (continued)

Ref.	Part Number	Qty.	Description
1	163-5793	1	Electrical Box ASM
2	163-5408	7	Screw-HWH, Sems
3	163-5798	1	Protection-Door
4	163-5799	8	Screw-Hsbfh
5	163-5794	1	Duct-Cable
6	163-5383	4	Washer-Flat
7	163-5795	4	Nut-Hex, NI
8	163-5796	1	Foam-Anti-Condensing
9	163-5547	1	Switch-Toggle
10	163-5548	1	Cap-Switch, Rubber
11	163-5628	1	Decal-On-Off, Horizontal
12	163-5544	5	Support-Pcb
13	163-5545	1	Spacer-Hex, Pcb
14	163-5650	1	Peripheral Board ASM
14:1	121-8861	6	Fuse-Mini Blade, 2 Amp
14:2	121-8864	1	Fuse-Mini Blade, 5 Amp
14:3	121-8867	2	Fuse-Mini Blade, 15 Amp
15	163-5552	1	Washer-Tooth, EXT
16	163-5551	1	Screw-HSH
17	163-5549	2	Pcb Retainer ASM
18	163-5424	2	Screw-Hph, Sems
19	163-5797	1	Cable-Power Supply
20	163-5442	2	Screw-Pz, Plastic
21	163-5800	4	Spacer-Threaded
22	163-5452	3	Pad-Rubber, Battery
23	163-5801	4	Bumper-Rubber, Threaded
26	164-0085	1	Battery
27	163-5811	1	Strap-Battery
28	163-5812	1	Pad-Rubber, Battery
29	163-5810	3	Nut-Hex, Serrated
30	163-5813	1	Cable-Battery
31	163-5860	1	Cable-Coil, Central
32	163-5861	1	Cable-Tool
33	163-5862	1	Cable-Motor, Signal, LH
34	163-5863	1	Cable-Motor, Signal, RH
35	163-5864	1	Cable-Power, LH
36	163-5865	1	Cable-Power, RH

Attachments and Accessories

For 30931US — Range Pro 100 Robotic Ball Picker

Product Name	Model/Part
Cable-Diagnostic	163-3870
Charger-Mobile	163-3871
Cable-Battery/Wake-up	163-3872
Stops-Calibration	163-3873
Wire-Spool-1000 FT	163-3926
Wire-Spool-250 FT	163-3927
Heater Battery Kit	163-5819
4G RTK Base US	30912US
Charge Station, Loop Only NA	30913NA
Charge Station, Two Loop NA	30914NA
WIFI RTK Base WW	30915

Notes:

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