



Parts Manual

Mfg. No: 2691783-01
Victa, Robot Mower RM 100

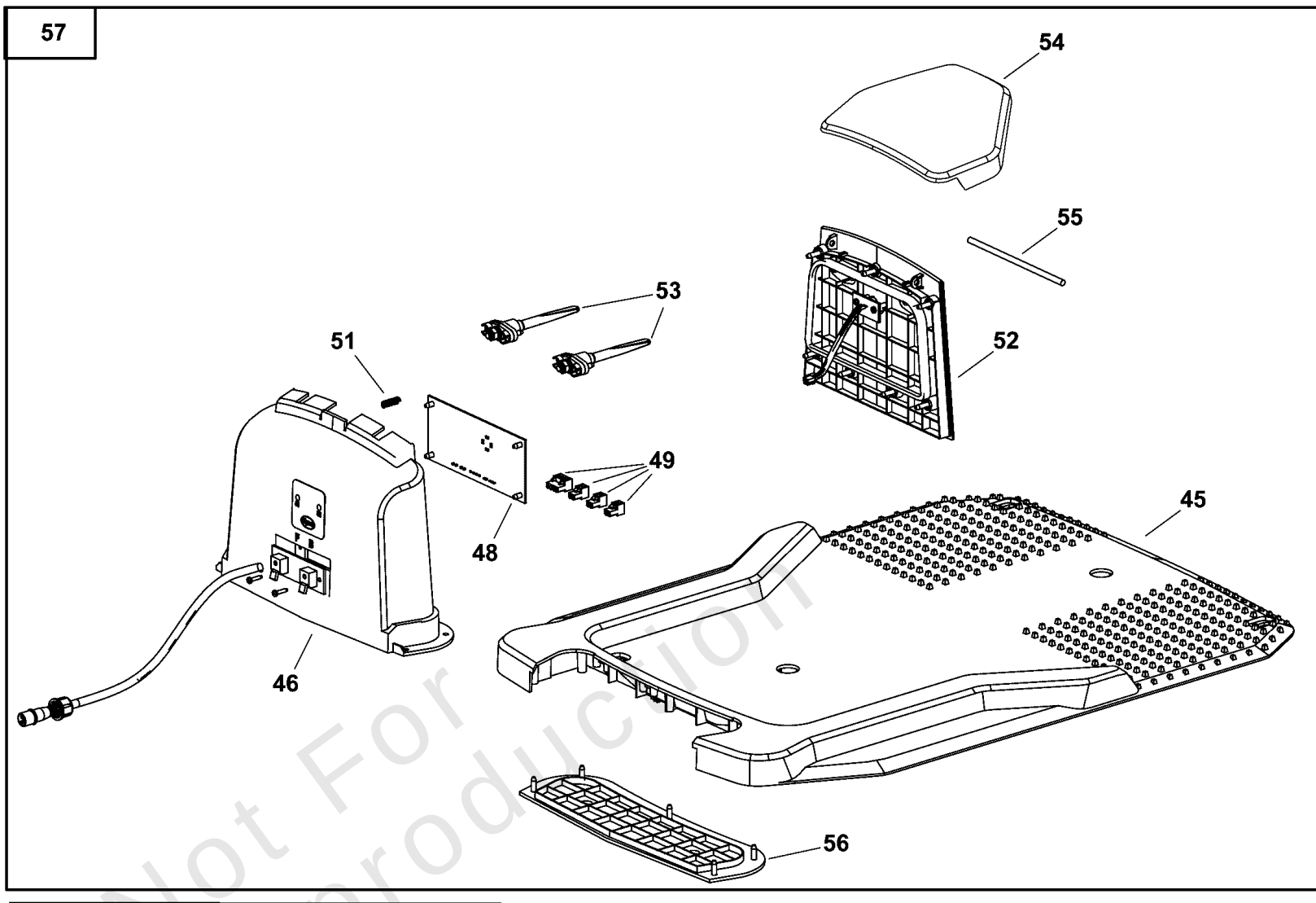
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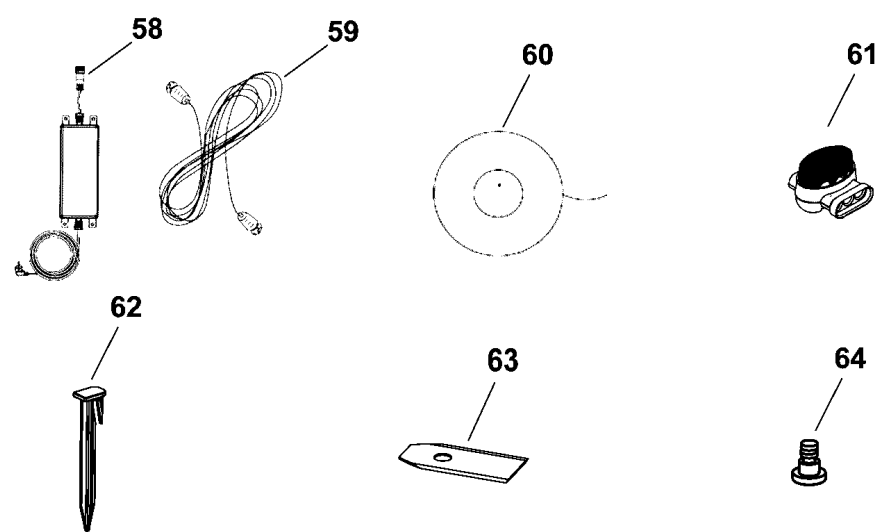
Charging Station & Accessories

Note: Unless noted otherwise, use the standard torque specifications

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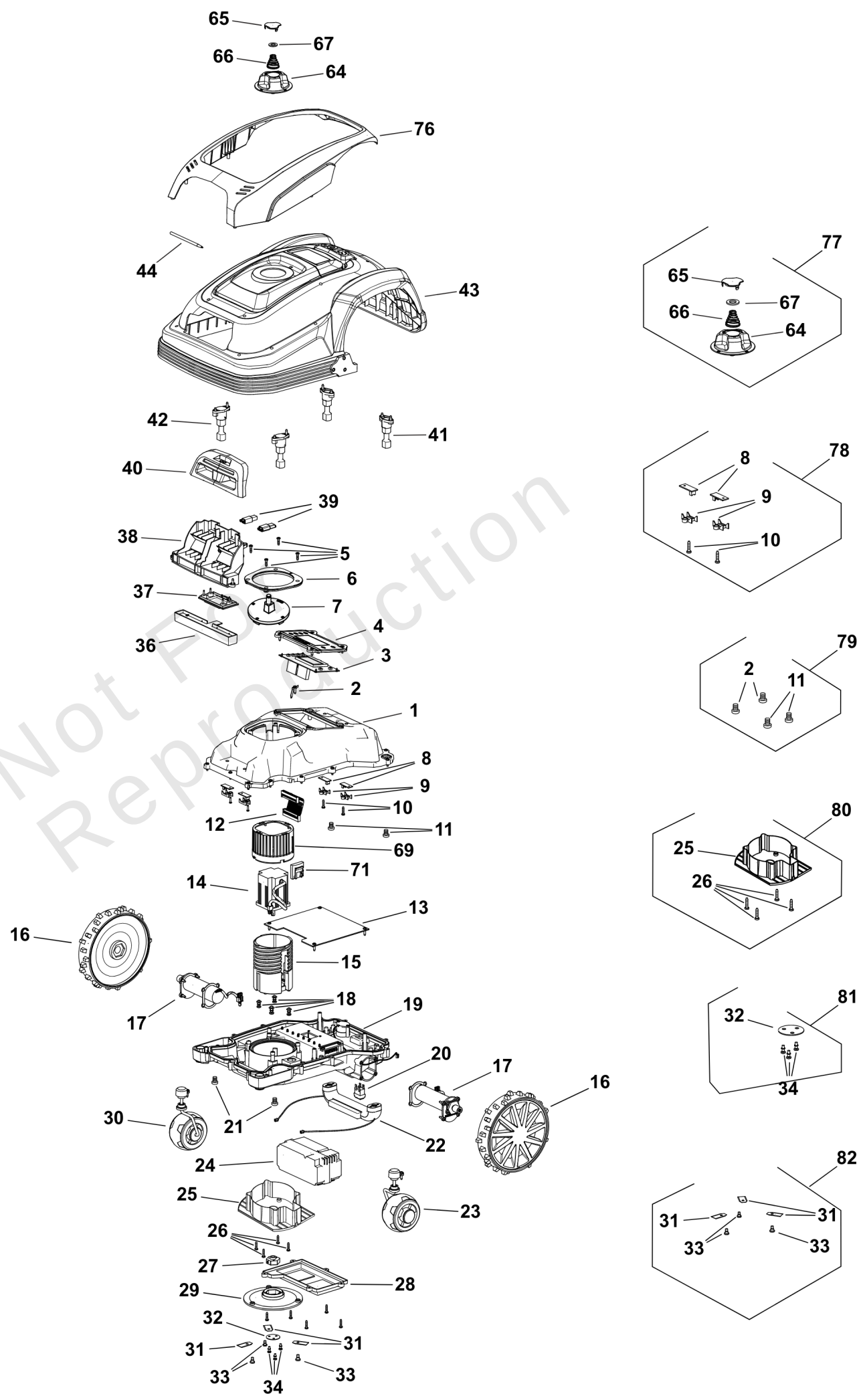


Accessories



Charging Station & Accessories

REF NO	PART NO	QTY	DESCRIPTION
45	-----	1	BASE PLATE, Charging Station
46	-----	1	HOUSING ASSEMBLY
48	-----	1	PC BOARD, Charging Station
49	-----	4	TERMINAL, HT396v 2p
51	-----	1	SPRING
52	-----	1	LID, Housing
53	-----	2	CONTACT, Charging
54	-----	1	HOUSING, Top
55	-----	1	PIN, Hinge
56	-----	1	SUPPORT PLATE, Housing
57	80089090-A	1	CHARGING STATION ASSEMBLY -Includes Ref. Nos. 45 through 56)
58	80086689-A	1	POWER SUPPLY (32V,1.5A)
59	80086690-A	1	CABLE, Low Voltage
60	6623	1	WIRE, Boundary, 150 M
61	-----	3	COUPLER, 3M-314
62	80090132-A	1	PEGS, Boundary, 10 Pack
63	-----	3	Blade
64	-----	3	SCREW, Slotted, Hex Head, Phillips



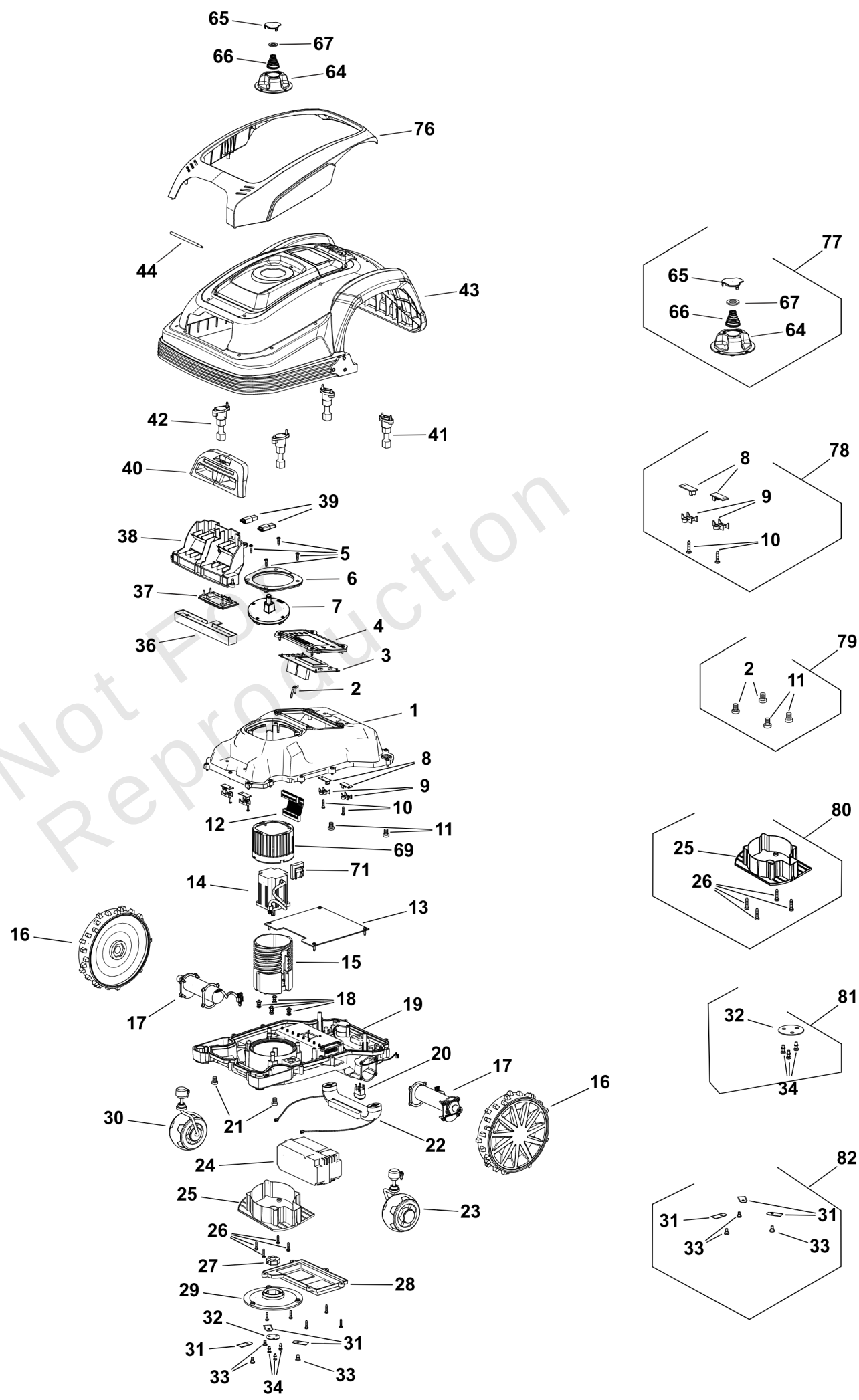
Robot Mower

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	CHASSIS, Upper
2	-----	1	ADJUSTING LIMIT
3	-----	1	PANEL, PCB
4	-----	1	LCD DISPLAY, PRO
5	-----	4	SCREW, Tapping, Pan Head, ST4 2x16
6	-----	1	PLATE, Height Adjustment Handle
7	-----	1	PLATE, Knob
8	-----	4	SENSOR, Hall
9	-----	4	PLATE, Hall Sensor
10	-----	4	SCREW, Tapping , ST2. 9x9. 5F
11	-----	2	SCREW, Tapping, Pan Head, Cross Recessed, 6x14
12	-----	1	PANEL, Loom
13	-----	1	KIT, Motherboard
14	-----	1	MOTOR ASSEMBLY
15	-----	1	COVER, Motor
16	80086728-A	2	REAR WHEEL ASSEMBLY
17	80086659-A	2	WHEEL MOTOR ASSEMBLY
18	80094971-A	4	KIT, Screw, Motor -(Kit Includes 4 screws)
19	-----	1	CHASSIS, Lower
20	-----	1	SWITCH
21	-----	1	SCREW, Tapping, Pan Head, Cross Recessed, 6x14
22	-----	1	HANDLE ASSEMBLY
23	80086660-A	1	FRONT WHEEL ASSEMBLY, Right
24	80086647-A	1	BATTERY, 28V, 2.0Ah
25	-----	1	GUARD, Cutting
26	-----	4	SCREW AND WASHER ASSEMBLY, ST2.9x13 C S2 N
27	-----	1	COUPLING
28	-----	1	LID, Battery
29	80086673-A	1	DISC, Cutting
30	80086661-A	1	FRONT WHEEL ASSEMBLY, Left
31	-----	3	BLADE
32	-----	1	SHIM, Cutting Disc
33	-----	3	SCREW, Slotted, Hex Head, Phillips
34	-----	4	SCREW, Pan Head, M4x12
36	-----	1	SIGNAL BOX
37	-----	1	COVER, Signal Box
38	-----	1	CHARGING UNIT
39	-----	2	BRACKET, Magnet
40	-----	1	COVER, Charging Unit
41	-----	2	KIT, Impact Sensor -(Kit includes 2 sensors)
42	-----	2	KIT, Lift Sensor -(Kit includes 2 sensors)
43	-----	1	COVER, Body
44	-----	1	TOUCH PEN
64	-----	1	KNOB
65	-----	1	LID, Knob
66	-----	1	SPRING
67	-----	1	RING, Retaining
69	-----	1	OUTER RING, Height Adjustment
71	-----	1	PLUG, Rubber

Robot Mower

Note: Unless noted otherwise, use the standard torque specifications

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Robot Mower

REF NO	PART NO	QTY	DESCRIPTION
76	80086724-A	1	COVER, Top
77	80090498-A	1	KNOB ASSEMBLY -(Includes Ref. Nos. 64, 65, 66 & 67)
78	80090494-A	1	KIT, Hall Sensor -(Includes Ref. Nos. 8, 9 & 10)
79	80090497-A	1	SCREW PACK, Pan Head, M6X14 -(Includes Ref. Nos. 11 & 21)
80	80090495-A	1	CUTTING GUARD ASSEMBLY -(Includes Ref. Nos. 25 & 26)
81	80090496-A	1	CUTTING DISC SHIM ASSEMBLY -(Includes Ref. Nos. 32 & 34)
82	80122749	1	BLADE KIT -(Includes Ref. Nos. 31 & 33)

Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)								
Property Class	 Class 5.6		 Class 8.8		 Class 10.9		 Class 12.9	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
M3	5.88	.56	13.44	1.28	19.2	1.80	22.92	2.15
M4	13.44	1.28	30.72	2.90	43.44	4.10	52.56	4.95
M5	26.4	2.50	60.96	5.75	5.97	8.10	7.15	9.7
M6	44.64	4.3	7.3	9.9	10.3	14	12.1	16.5
M7	5.2	7.1	12.1	16.5	16.9	23	19.9	27
M8	7.7	10.5	17.7	24	25	34	29	40
M10	15	21	35	48	50	67	59	81
M12	26	36	61	83	86.2	117	103	140
M14	42	58	101	132	136	185	162	220
M16	64	88	147	200	210	285	250	340
M18	89	121	202	275	287	390	346	470
M20	126	171	290	390	405	550	486	660
M22	169	230	390	530	559	745	656	890
M24	217	295	497	375	708	960	840	1140
M27	320	435	733	995	1032	1400	1239	1680
M30	435	590	995	1350	1401	1900	1681	2280
M33	590	800	1349	1830	1902	2580	2278	3090
M36	759	1030	1740	2360	2441	3310	2935	3980
M39	988	1340	2249	3050	3163	4290	3798	5150

The guides and ruler furnished below are designed to help you select the appropriate hardware.



Standard Hardware Sizing

When a washer or nut is identified as 1/2" (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

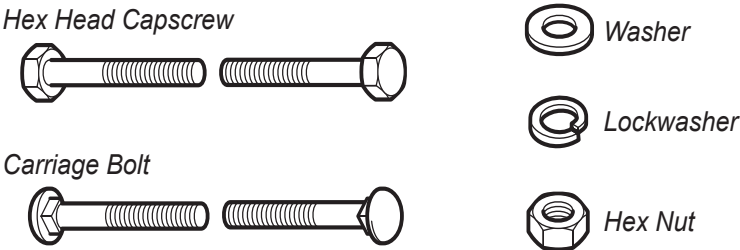
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	 SAE Grade 2		 SAE Grade 5		 SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	29	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types



Wrench & Fastener Size Guide

 1/4" Bolt or Nut Wrench—7/16"	 5/16" Bolt or Nut Wrench—1/2"	 3/8" Bolt or Nut Wrench—9/16"	 7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"	 1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm	M8 Bolt or Nut Wrench—13mm	M10 Bolt or Nut Wrench—17mm	M12 Bolt or Nut Wrench—19mm	M14 Bolt or Nut Wrench—22mm

VICTA