

NOBLES[®]
ENGINEERED BY TENNANT COMPANY

SPEED SCRUB
300

SPEED SCRUB[®] 300

Walk-Behind Floor Scrubber

ec H₂O[™]
NanoClean



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demo or download App



High performance, consistent results on virtually any hard surface.

The Speed Scrub® 300

Cost Effective & Reliable

- Improved and durable components extend machine life and reduce cost of ownership
- Effective scrubbing capabilities for cleaner floors in fewer passes

Versatile Cleaning Performance

- Outstanding water pick-up for reduced slip and fall accidents
- Minimize water consumption with optional ec-H₂O NanoClean® technology
- Quiet 67 dBA noise level for daytime cleaning with minimal disruption

Easy Operation & Maintenance

- Easy to use with ergonomic design delivers foot activated squeegee to minimize bending and wider handle for improved machine operation
- Optional Insta-Click™ head for easy, low-touch pad attachment and removal



Four key features

1. Insta-Click™

Magnetic head allows pads and brushes to be ergonomically positioned and results in faster installation.



2. Improved Squeegee Design

Helps ensure dirt and soils are removed from the floor for minimum risk of slip-and-fall accidents, and yellow touch points simplifies preventative maintenance and training requirements.



Built to be **tough**. Made to be **easy**.



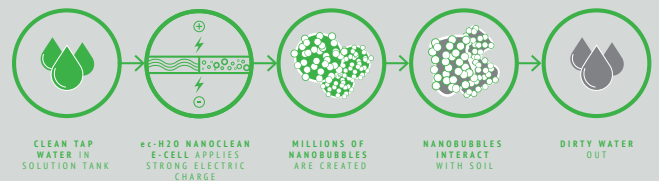
EXCLUSIVE TECHNOLOGY

(optional cleaning innovation)



ec-H2O NanoClean® technology electrically converted water is created by an on-board e-cell that generates millions of very tiny microscopic bubbles known as nanobubbles that promote the cleaning efficacy of the solution.

This next generation solution offers the same great benefits of the first generation and now cleans better and cleans more soils in more applications. The name NanoClean, refers to the generation of nano-scale bubbles that are an important part of the cleaning mechanism.



3. Stone care daily maintenance capabilities

A complete floor care process that restores the natural beauty of porous stone and produces a remarkable, long-lasting shine with the 3M™ Stone Floor Protection System.



4. Orbital

Chemical-free floor finish removal delivers aggressive 2200 rpm agitation with up to 109 pounds of down pressure.



SPEED SCRUB® 300 WALK-BEHIND FLOOR SCRUBBER

	SINGLE DISK		SINGLE DISK		DUAL DISK	CYLINDRICAL	ORBITAL
	17 IN/430 MM PAD ASSIST	17 IN/430 MM SELF-PROPEL	20 IN/500 MM PAD ASSIST	20 IN/500 MM SELF-PROPEL	24 IN/600 MM SELF-PROPEL	20 IN/500 MM SELF-PROPEL	20 IN/500 MM SELF-PROPEL
Productivity (per hour)							
Theoretical Max	17,000 ft ² /1,579 m ²		20,000 ft ² /1,858 m ²		24,000 ft ² /2,230 m ²	20,000 ft ² /1,858 m ²	20,000 ft ² /1,858 m ²
Estimated Coverage*							
Conventional	9,340 ft ² /868 m ²	12,453 ft ² /1,157 m ²	11,208 ft ² /1,041 m ²	14,943 ft ² /1,388 m ²	18,264 ft ² /1,697 m ²	14,943 ft ² /1,388 m ²	14,943 ft ² /1,388 m ²
ec-H ₂ O NanoClean™	9,668 ft ² /898 m ²	12,891 ft ² /1,198 m ²	11,602 ft ² /1,078 m ²	15,469 ft ² /1,437 m ²	18,906 ft ² /1,756 m ²	15,469 ft ² /1,437 m ²	15,469 ft ² /1,437 m ²
BRUSH DRIVE SYSTEM							
Scrub motor	24 VDC, 1 hp/0.75 kW		24 VDC, 1 hp/0.75 kW		24 VDC, 1 hp/0.75 kW	24 VDC, 1 hp/0.75 kW	0.6 hp/0.45 kW
Brush/pad RPM	230 rpm		230 rpm		285 rpm	1,065 rpm	2,200 rpm
Brush/pad pressure	47 lbs/21 kg		51 lbs/23 kg		57 lbs/26 kg	53 lbs/24 kg	63 lbs/29 kg
	Optional 86 lbs/39 kg		Optional 90 lbs/41 kg		Optional 97 lbs/44 kg	Optional 64 lbs/29 kg	Optional 109 lbs/49 kg
SOLUTION/RECOVERY SYSTEM							
Solution tank capacity	11 gal/42 L		11 gal/42 L		11 gal/42 L	11 gal/42 L	11 gal/42 L
Recovery tank capacity	14 gal/53 L		14 gal/53 L		14 gal/53 L	14 gal/53 L	14 gal/53 L
Vacuum motor	24 VDC, 0.6 hp/0.47 kW		24 VDC, 0.6 hp/0.47 kW		24 VDC, 0.6 hp/0.47 kW	24 VDC, 0.6 hp/0.47 kW	24 VDC, 0.6 hp/0.47 kW
Vacuum waterlift	34.5 in/876 mm		34.5 in/876 mm		34.5 in/876 mm	34.5 in/876 mm	34.5 in/876 mm
CLEANING TECHNOLOGY							
Conventional	Standard		Standard		Standard	Standard	Standard
ec-H ₂ O NanoClean™	Optional		Optional		Optional	Optional	Optional
BATTERY SYSTEM							
System voltage	24 volt		24 volt		24 volt	24 volt	24 volt
Battery types (Wet 105AH, Wet 130AH, Wet 150AH, Sealed AGM 140AH)	2 required		2 required		2 required	2 required (150AH wet & 140AH sealed only)	2 required
Battery run time (up to hours)	3.4	3.1	2.8	2.6	2.9	2.5	3.8
On-board charger	Standard		Standard		Standard	Standard	Standard
Off-board charger	Optional		Optional		Optional	Optional	Optional
MACHINE SPECIFICATIONS							
Length	51.25 in/1,302 mm		54 in/1,372 mm		51.75 in/1,314 mm	50.50 in/1,283 mm	49 in/1,245 mm
Width	20 in/500 mm		22 in/559 mm		26 in/660 mm	25 in/635 mm	20.5 in/521 mm
Height	43.10 in/1,095 mm		43.10 in/1,095 mm		43.10 in/1,095 mm	43.10 in/1,095 mm	43.10 in/1,095 mm
Weight (without batteries)	220 lbs/98 kg	230 lbs/104 kg	230 lbs/104 kg	240 lbs/109 kg	250 lbs/116 kg	250 lbs/113 kg	255 lbs/216 kg
Weight (with batteries)	366 lbs/166 kg	390 lbs/177 kg	376 lbs/171 kg	400 lbs/181 kg	410 lbs/186 kg	410 lbs/186 kg	415 lbs/188 kg
Sound level (operator's ear)	67 dBA		67 dBA		67.7 dBA	68.7 dBA	67.5 dBA
WARRANTY							
See your local representative for warranty information							

* Estimated coverage rates use the practical speed and empty/fill time standards from the 2004 ISSA Cleaning Times handbook.
 ** Run times are based on Continuous Scrubbing Run Times.
 *** Sound levels per ISO 11201 as recommended by the American Association of Cleaning Equipment Manufacturers & OSHA.

Specifications subject to change without notice.



ec-H₂O NanoClean™ technology is NFSI (National Floor Safety Institute) Certified



ec-H₂O NanoClean technology is registered by NSF International

Engineered by Tennant Company, the Speed Scrub® 300 is the smart, reliable choice for your no-nonsense cleaning needs.

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SPEED SCRUB® 300 | WALK-BEHIND SCRUBBER



Product Specifications

FEATURES	17 in / 430 mm Single Disk Pad Assist	17 in / 430 mm Single Disk Self Propel	20 in / 500 mm Single Disk Pad Assist	20 in / 500 mm Single Disk Self Propel	24 in / 600 mm Dual Disk Self Propel	20 in / 500 mm Orbital Self Propel	20 in / 500 mm Dual Cylindrical Self Propel
Cleaning Tool Attachment	3-Lug Standard Insta-Click™ Optional					N/A	N/A
Machine Speed	Scrub Speed: 61 mpm / 200 fpm Transport: 73 mpm / 240 fpm Reverse: 44 mpm / 144 fpm						
Scrubbing Coverage Rate(m ² / ft ² / hr)							
Theoretical Max	17,000 ft ² / 1,579 m ²	17,000 ft ² / 1,579 m ²	20,000 ft ² / 1,858 m ²	20,000 ft ² / 1,858 m ²	24,000 ft ² / 2,230 m ²	20,000 ft ² / 1,858 m ²	20,000 ft ² / 1,858 m ²
Conventional	9,340 ft ² / 868 m ²	12,453 ft ² / 1,157 m ²	11,208 ft ² / 1,041 m ²	14,943 ft ² / 1,388 m ²	18,264 ft ² / 1,697 m ²	14,943 ft ² / 1,388 m ²	14,943 ft ² / 1,388 m ²
ec-H2O NanoClean®	9,668 ft ² / 898 m ²	12,891 ft ² / 1,198 m ²	11,602 ft ² / 1,078 m ²	15,469 ft ² / 1,437 m ²	18,906 ft ² / 1,756 m ²	15,469 ft ² / 1,437 m ²	15,469 ft ² / 1,437 m ²
Brush/Pad Drive System							
Cleaning Path	17 in / 430 mm		20 in / 500 mm		24 in / 600 mm	20 in / 500 mm	20 in / 500 mm
Scrub Motor	24 VDC, 1 HP / 0.75 kW						
Pad/Brush RPM	230 rpm				285 rpm	2200 rpm	1065 rpm
Pad/Brush Down Pressure							
Single Down Pressure - Standard	47 lbs / 21 kg		51 lbs / 23 kg		57 lbs / 26 kg	63 lbs / 29 kg	53 lbs / 24 kg
Dual Down Pressure - Optional	47, 86 lbs / 21, 39 kg		51, 90 lbs / 23, 41 kg		57, 97 lbs / 26, 44 kg	63, 109 lbs / 29, 50 kg	53, 64 lbs / 24, 29 kg
Solution and Recovery Systems							
Solution Tank Capacity	11 gal / 42 l						
Recovery Tank Capacity	14 gal / 53 l						
Drive Motor	N/A	0.23 HP / 0.175 kW	N/A	0.23 HP / 0.175 kW			
Vacuum Motor	24 VDC, 0.5 hp / 0.37 kW						
Vacuum Water Lift	34.5 in / 876 mm						
Cleaning Technology							
Conventional	Standard						
Maximum Conventional Water Flow	1.9 lpm / 0.5 gpm						1.3 lpm / 0.35 gpm
ec-H2O NanoClean® Technology	Optional						
ec-H2O NanoClean® Technology Water Flow	Low: 0.45 lpm / 0.12 gpm		Med: 0.94 lpm / 0.25 gpm		High: 1.3 lpm / 0.35 gpm		

Product Specifications (continued)

FEATURES	17 in / 430 mm Single Disk Pad Assist	17 in / 430 mm Single Disk Self Propel	20 in / 500 mm Single Disk Pad Assist	20 in / 500 mm Single Disk Self Propel	24 in / 600 mm Dual Disk Self Propel	20 in / 500 mm Orbital Self Propel	20 in / 500 mm Dual Cylindrical Self Propel
Battery System							
System Voltage	24 Volts						
Battery Count	2						
Batteries	Wet 105 AH Wet 130 AH Wet 150 AH (Provides longest run time) Sealed AGM 140 AH						Wet 150 AH (Provides longest run time) Sealed AGM 140AH
Battery Run Time (Up to Hours)	3.6	3.3	3.1	2.8	2.8	3.7	2.5
On-Board Charger	Standard						
Off-Board Charger	Optional						
Decibel Ratings							
Sound Level At Operator Ear (dBA)	67.0	67.0	67.0	67.0	67.7	67.5	68.7
Machine Dimensions and Weights							
Squeegee Width	30.4 in / 772 mm						
Length X Width X Height	51.25 x 20.00 x 43.10 in / 1302 x 508 x 1095 mm	54.00 x 22.00 x 43.10 in / 1372 x 559 x 1095 mm		51.75 x 26.00 x 43.10 in / 1314 x 660 x 1095 mm	49.00 x 20.50 x 43.10 in / 1245 x 521 x 1095 mm	50.50 x 25.00 x 43.10 in / 1283 x 635 x 1095 mm	
Weight (less batteries)	220 lbs / 98 kg	230 lbs / 104 kg	230 lbs / 104 kg	240 lbs / 109 kg	250 lbs / 113 kg	255 lbs / 116 kg	250 lbs / 113 kg
Weight (with batteries)	366 lbs / 166 kg	390 lbs / 177 kg	376 lbs / 171 kg	400 lbs / 181 kg	410 lbs / 186 kg	415 lbs / 188 kg	410 lbs / 186 kg
Warranty	10 years Rotomold - 3 years Parts - 2 years Labor - 6 months of Trip						

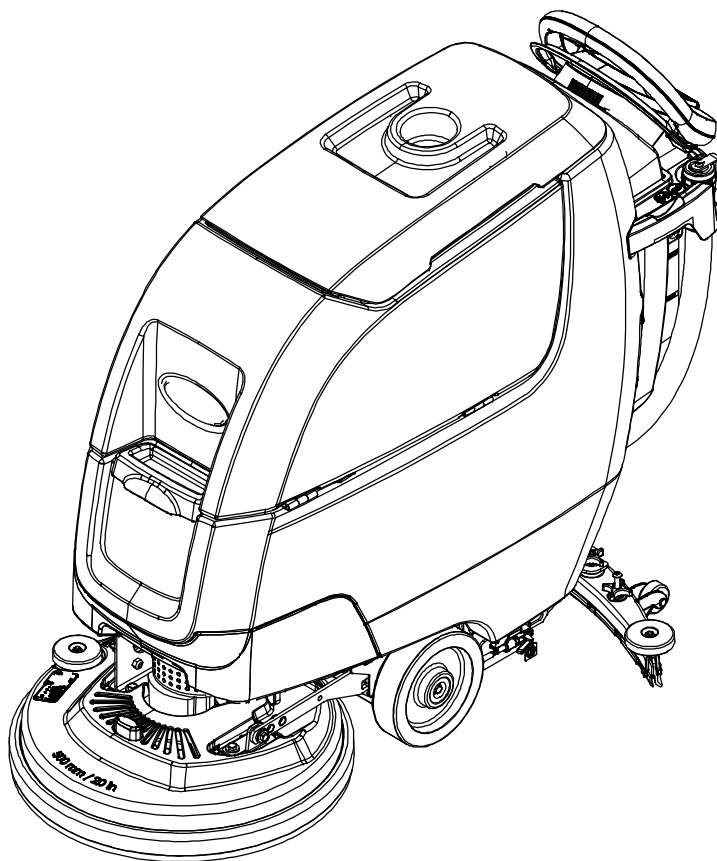
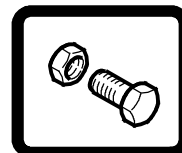


SPEED SCRUB® 300

Hygenic® Fully Cleanable Recovery Tank
TennantTrue® Parts

AUTOMATIC FLOOR SCRUBBER
(S/N 10000000- 20000000)

PARTS MANUAL

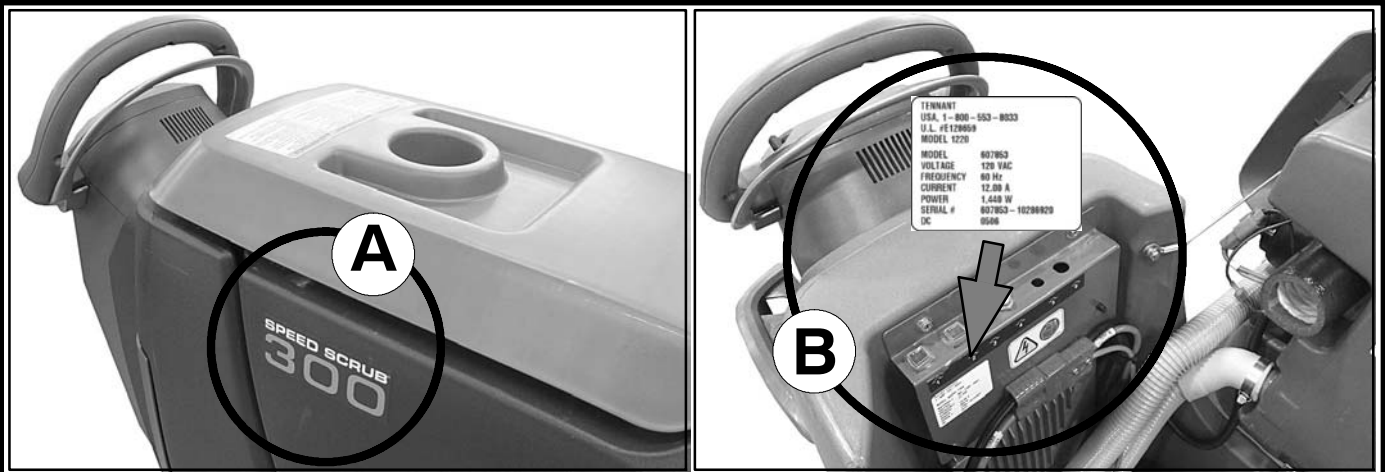


For the latest Parts manuals and other
language Operator manuals, visit:

www.nobles.com/manuals

9014511
Rev. 04 (07-2016)





Ref	Part No.	Serial Number	Description	Qty.
1	82681	(000000-)	Bracket W/dt, Lpg Mount	1
▽ 2	63810	(000000-)	Latch Assy, Lpg Tank Mtg, W/Nut	4
▲ 3	51839	(000000-)	Nut Adjustable, Lpg Tank Mtg	2
4	49263	(000000-)	Tie, Cable	3
(D)	82556	(000000- 001039)	Bracket, Vaporizer	1
	54930	(000000-)	Vaporizer, LPG	1

HOW TO ORDER PARTS - See diagram above

Only use TENNANT Company supplied or equivalent parts. Parts and supplies may be ordered online, by phone, by fax or by mail.

Follow the steps below to ensure prompt delivery.

1. (A) Identify the machine model.
2. (B) Identify the machine serial number from the data label.
3. (C) Ensure the proper serial number is used from the parts list.
4. Identify the part number and quantity.
Do not order by page or reference numbers.
5. Provide your name, company name, customer ID number, billing and shipping address, phone number and purchase order number.
6. Provide detail shipping instructions.

- (D) ▽ - identifies an assembly
▲ - identifies parts included in assembly

Please fill out at time of installation for future reference.

Model No. - _____

Serial No. - _____

Machine Options - _____

Sales Rep. - _____

Sales Rep. phone no. - _____

Customer ID Number - _____

Installation Date - _____

Tennant Company

PO Box 1452
Minneapolis, MN 55440
Phone: (800) 553-8033 or (763) 513-2850

www.nobles.com

Specifications and parts are subject to change without notice.

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STANDARD PARTS

GENERAL RECOMMENDED MAINTENANCE ITEMS	5
BRUSHES AND PAD DRIVER GROUP, 43CM DISK 3- LUG HUB	8
BRUSHES AND PAD DRIVER GROUP, 43CM DISK MAGNETIC HUB	10
BRUSHES AND PAD DRIVER GROUP, 50CM DISK 3- LUG HUB	12
BRUSHES AND PAD DRIVER GROUP, 50CM DISK MAGNETIC HUB	14
BRUSHES AND PAD DRIVER GROUP, 60CM DUAL DISK 3- LUG HUB	16
BRUSHES AND PAD DRIVER GROUP, 60CM DUAL DISK MAGNETIC HUB	18
BRUSHES GROUP, 50CM CYLINDRICAL	20
PAD GROUP, 50CM ORBITAL	21
SCRUB HEAD GROUP, 43CM DISK, 3- LUG HUB	22
SCRUB HEAD GROUP, 43CM DISK, MAGNETIC HUB	24
SCRUB HEAD GROUP, 50CM DISK, 3- LUG HUB	26
SCRUB HEAD GROUP, 50CM DISK, MAGNETIC HUB	28
SCRUB HEAD GROUP, 60CM DUAL DISK, 3- LUG HUB	30
SCRUB HEAD GROUP, 60CM DUAL DISK, MAGNETIC HUB	34
SCRUB HEAD GROUP, 50CM CYLINDRICAL ..	38
SCRUB HEAD GROUP, 50CM ORBITAL	42
RECOVERY TANK GROUP, BASE MODEL	44
RECOVERY TANK FILTER AND HOSE GROUP, SCREW CAP	46
RECOVERY TANK FILTER AND HOSE GROUP, CONTROL VALVE	48

SOLUTION TANK GROUP	50
FRAME GROUP, PROPEL MODEL	52
FRAME GROUP, PUSH MODEL	54
MANUAL DOWN PRESSURE GROUP	56
SINGLE DOWN PRESSURE GROUP	58
SOLUTION GROUP, BASE MODEL	60
SOLUTION GROUP, BASE MODEL ec- H2O ...	62
ELECTRICAL COMPONENTS GROUP, BASE MODEL	64
LOWER CONSOLE GROUP, ON- BOARD CHARGER	66
LOWER CONSOLE GROUP, OFF- BOARD CHARGER	68
HANDLE GROUP, BASE PROPEL MODEL	70
HANDLE GROUP, BASE PUSH MODEL	72
SHROUD GROUP, DISK AND ORBITAL HEAD .	74
SHROUD GROUP, CYLINDRICAL HEAD	76
SCRUB HEAD LIFT GROUP, 43CM DISK MODEL	78
SCRUB HEAD LIFT GROUP, 50CM DISK MODEL	80
SCRUB HEAD LIFT GROUP, 60CM DUAL DISK MODEL	82
SCRUB HEAD LIFT GROUP, 50CM CYLINDRICAL MODEL	84
SCRUB HEAD LIFT GROUP, 50CM ORBITAL MODEL	86
SQUEEGEE GROUP	88

TABLE OF CONTENTS

STANDARD PARTS - Cont'd

BATTERY CABLE GROUP	90
BATTERY GROUP, 105AH C20 WET	92
BATTERY GROUP, 130AH C20 WET	93
BATTERY GROUP, 155AH C20 WET	94
BATTERY GROUP, 140AH C20 AGM	95
LABEL GROUP	96
ELECTRICAL DIAGRAM, PROPEL MODEL	100
ELECTRICAL DIAGRAM, PUSH MODEL	103
ELECTRICAL HARNESS, MAIN PROPEL	106
ELECTRICAL HARNESS, MAIN PUSH	110
ELECTRICAL HARNESS, OPTIONS PROPEL ..	114
ELECTRICAL HARNESS, OPTIONS PUSH	115
ELECTRICAL HARNESS, BAIL SWITCH	116

OPTIONS

BATTERY LIFT OUT BOX KIT	118
HYDROLINK® BATTERY WATERING SYSTEM KIT	120
DOCUMENTATION GROUP	122

BREAKDOWNS

ec- H2O NANOCLEAN MODULE BREAKDOWN	124
ORBITAL HEAD ECCENTRIC DRIVE BREAKDOWN	126

RECOMMENDED MAINTENANCE ITEMS

GENERAL RECOMMENDED MAINTENANCE ITEMS

Part No.	Serial Number	Description	Qty.
1016763	(10000000- 20000000)	Brush Assy, Disk, Scb, 17.0d, Abr (3- Lug)	1
1016764	(10000000- 20000000)	Brush Assy, Disk, Scb, 17.0d, Nyl (3- Lug)	1
1016765	(10000000- 20000000)	Brush Assy, Disk, Scb, 17.0d, Pyp (3- Lug)	1
1213034	(10000000- 20000000)	Brush Assy, Disk, Scb, 43cm, Mag, Nyl	1
1213035	(10000000- 20000000)	Brush Assy, Disk, Scb, 43cm, Mag, Pyp	1
1213037	(10000000- 20000000)	Brush Assy, Disk, Scb, 43cm, Mag, Ab	1
1050273	(10000000- 20000000)	Pad, Polish, 17.0d, White [1pick=1pad]	1
1050271	(10000000- 20000000)	Pad, Buff, 17.0d, Red [1pick=1pad]	1
1050270	(10000000- 20000000)	Pad, Scb, 17.0d, Blue [1pick=1pad]	1
1050267	(10000000- 20000000)	Pad, Stripping, 17.0d, Brown[1pick=1pad]	1
1050262	(10000000- 20000000)	Pad, Stripping, 17.0d[Hi Pro,1pick=1pad]	1
1051028	(10000000- 20000000)	Pad, Surf Prep, 17.0d [Mar, 1pick=1pad]	1
1016805	(10000000- 20000000)	Brush Assy, Disk, Scb, 20.0d, Abr (3- Lug)	1
1016810	(10000000- 20000000)	Brush Assy, Disk, Scb, 20.0d, Nyl (3- Lug)	1
1016811	(10000000- 20000000)	Brush Assy, Disk, Scb, 20.0d, Pyp (3- Lug)	1
1210386	(10000000- 20000000)	Brush Assy, Disk, Scb, 50cm, Mag, Nyl	1
1213032	(10000000- 20000000)	Brush Assy, Disk, Scb, 50cm, Mag, Pyp	1
1213033	(10000000- 20000000)	Brush Assy, Disk, Scb, 50cm, Mag, Ab	1
32505	(10000000- 20000000)	Washer, Flat, 92b 156d 2.6l, Pad Driver	1
17260	(10000000- 20000000)	Pad, Polish, 20.0d, White [1pick=1pad]	1
17261	(10000000- 20000000)	Pad, Buff, 20.0d, Red [1pick=1pad]	1
17262	(10000000- 20000000)	Pad, Scb, 20.0d, Blu [1pick=1pad]	1
17263	(10000000- 20000000)	Pad, Stripping, 20.0d, Brown[1pick=1pad]	1
370094	(10000000- 20000000)	Pad, Stripping, 20.0d[Hi Prod,1pick=1pad]	1
1051030	(10000000- 20000000)	Pad, Surf Prep, 20.0d [Mar, 1pick=1pad]	1
1056306	(10000000- 20000000)	Brush Assy, Disk, Scb, 12.0d, 3- Lug, Nyl	2
1056313	(10000000- 20000000)	Brush Assy, Disk, Scb, 12.0d, 3- Lug, Pyp	2
1063297	(10000000- 20000000)	Brush Assy, Disk, Scb, 12.0d, 3- Lug, Abr	2
1210136	(10000000- 20000000)	Brush Assy, Disk, Scb, 30cm, Mag, Nyl	2
1213040	(10000000- 20000000)	Brush Assy, Disk, Scb, 30cm, Mag, Pyp	2
1213041	(10000000- 20000000)	Brush Assy, Disk, Scb, 30cm, Mag, Ab	2
385940	(10000000- 20000000)	Pad, Polish, 12.0d, White [1pick=1pad]	2
385941	(10000000- 20000000)	Pad, Buff, 12.0d, Red [1pick=1pad]	2
385942	(10000000- 20000000)	Pad, Scb, 12.0d, Blu [1pick=1pad]	2
385943	(10000000- 20000000)	Pad, Stripping, 12.0d, Brown[1pick=1pad]	2
1063334	(10000000- 20000000)	Pad, Stripping, 12.0d [Hi- Prod] Blk	2
1051020	(10000000- 20000000)	Pad, Surf Prep, 12.0d [Mar, 1pick=1pad]	2
1209188	(10000000- 20000000)	Brush, Scb, 21l, 20sr, Nyl (Cylindrical Model)	2
1212762	(10000000- 20000000)	Brush, Scb, 21l, 20sr, Pyp (Cylindrical Model)	2
1205512	(10000000- 20000000)	Pad, Polish, 20 X 14, White [1pick=1pc] (Orbital Model)	1
1205513	(10000000- 20000000)	Pad, Buff, 20 X 14, Red [1pick=1pc] (Orbital Model)	1
1205514	(10000000- 20000000)	Pad, Scb, 20 X 14, Blu [1pick=1pc] (Orbital Model)	1
1205515	(10000000- 20000000)	Pad, Surf Prep, 20 X 14[Mar, 1pick=1pad] (Orbital Model)	1
1217830	(10000000- 20000000)	Pad, Backer, 20 X 14 (Orbital Model)	1
1214595	(10000000- 20000000)	Wheel, Scrbr, 8.00d, W/ Taper [Hi Trac] (Propel Model)	2
1214586	(10000000- 20000000)	Wheel, Scrbr, 8.00d, W/ Brg [Hi Trac] (Push Model)	2
1212422	(10000000- 20000000)	Caster, Swivel [Wicke 224051]	1
▽ 1211537	(10000000- 20000000)	Filter, In- Line, Pf06/Pf06 080m 2.6l Epd	1
▲ 1218885	(10000000- 20000000)	Gasket [Epdm, F/1211537]	1
▲ 1218883	(10000000- 20000000)	Screen, Fltr, 80 Mesh, Ss [W/ Cage]	1
▲ 613991	(10000000- 20000000)	Bowl, Clr, Short, F/1005302	1

RECOMMENDED MAINTENANCE ITEMS

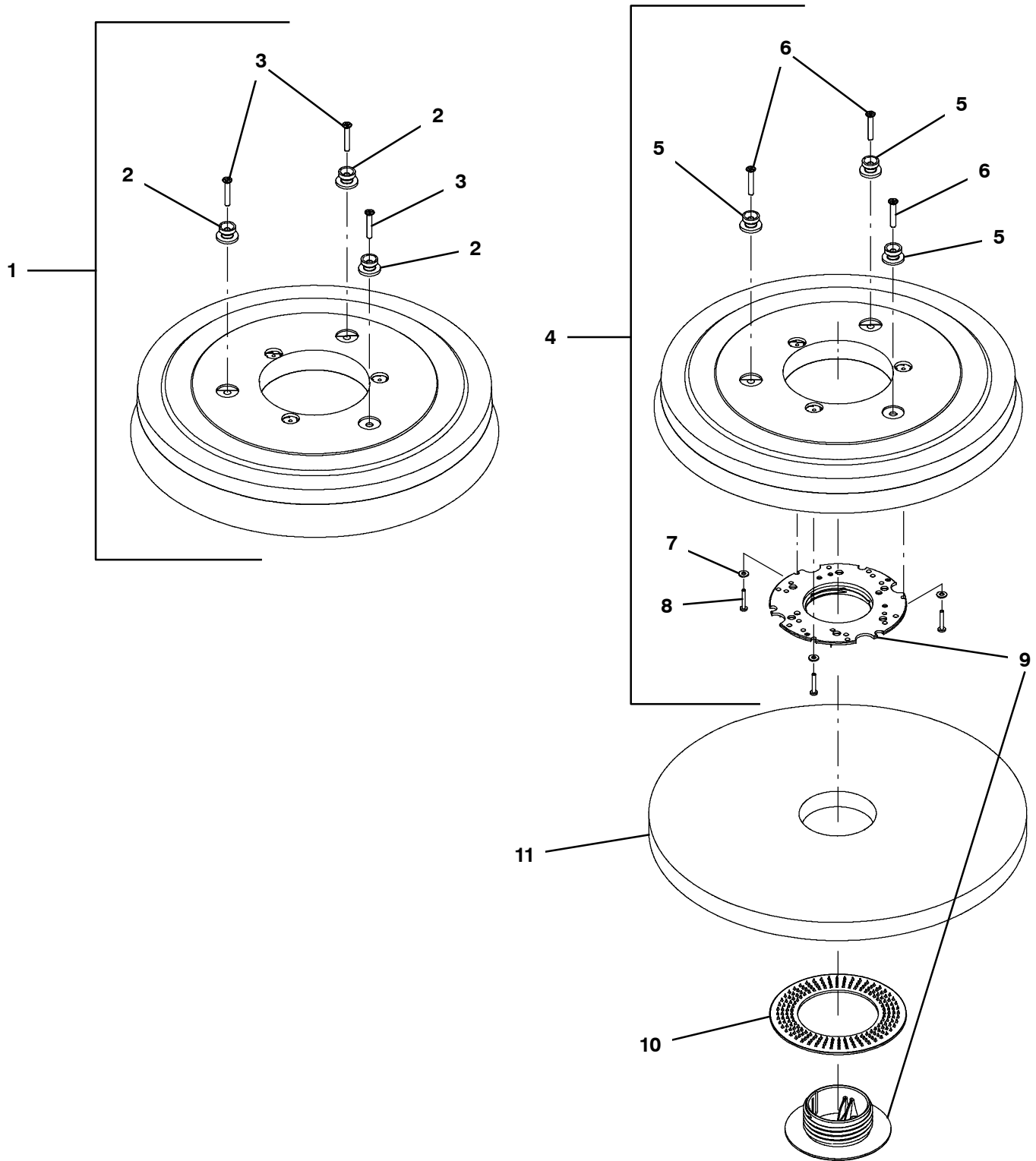
GENERAL RECOMMENDED MAINTENANCE ITEMS

	Part No.	Serial Number	Description	Qty.
▽	9014172	(10000000-20000000)	Squeegee Kit, Linatex, Am [T300/E/Ss300]	1
▲	1203954	(10000000-20000000)	Blade, Sqge, Front, 788l, Linatex[500mm] (Standard)	1
	1215611	(10000000-20000000)	Blade, Sqge, Front, 788l, Urethane[500mm] (Option)	1
	1215612	(10000000-20000000)	Blade, Sqge, Front, 788l, Gum[500mm] (Option)	1
▲	1203953	(10000000-20000000)	Blade, Sqge, Rear, 836l, Linatex[500mm] (Standard)	1
	1215609	(10000000-20000000)	Blade, Sqge, Rear, 836l, Urethane[500mm] (Option)	1
	1215610	(10000000-20000000)	Blade, Sqge, Rear, 836l, Gum[500mm] (Option)	1
▲	1010560	(10000000-20000000)	Wheel, Bmpr, 80d X 25w, Non- Marking	2
▲	630477	(10000000-20000000)	Wheel, Pyu, 02.0d 0.38w, Gray	2
	1055019	(10000000-20000000)	Bumper, Head, 43cm, W/ Bristle Skirt, Im	1
	1055025	(10000000-20000000)	Bumper, Head, 50cm, W/ Bristle Skirt, Im	1
	1072656	(10000000-20000000)	Bumper, Head, 60cm, Bristle Skirt	1
	1010560	(10000000-20000000)	Wheel, Bmpr, 80d X 25w, Non- Marking (Disk Heads)	1
▽	9011810	(10000000-20000000)	Module Kit, Replmt [Ec- H2o, B 02] (See Breakdowns)	1
▲	9013646	(10000000-20000000)	Cartridge, Ec- H2o Nanoclean Wcm, 270ml	1
▽	1210703	(10000000-20000000)	Motor, Ele, 24vdc 0200rpm 1.00hp, 17mm (43CM & 50CM Disk Head)	1
▲	222606	(10000000-20000000)	Vr, Brush Kit, Motor, Ele [lp] (4Pc) (For Imperial Motor - Frame #P56SG681)	1
▲	1045790	(10000000-20000000)	Brush Kit, Replmt, Carbon 24vdc[1pk=1set](4Pc) (For Sanrong Motor - Frame #56S)	1
▽	1210212	(10000000-20000000)	Motor, 24vdc, 2000rpm, 7/8hp, Us (60CM Disk Head)	1
▲	1059370	(10000000-20000000)	Brush, Motor, Replmt [Bag Of 4] (60CM Disk Head)	2
▽	1210202	(10000000-20000000)	Motor, Ele, 24vdc [Vw Cyl] (Cylindrical Head)	1
▲	1059370	(10000000-20000000)	Brush, Motor, Replmt [Bag Of 4]	1
▽	1212669	(10000000-20000000)	Motor, Ele, 24vdc, 2200rpm, .6hp, 22mm (Orbital Head)	1
▲	1059370	(10000000-20000000)	Brush, Motor, Replmt [Bag Of 4] (Orbital Head)	1
	1055305	(10000000-20000000)	Belt, Drive, 6pj, E]139 [T3] (60CM Disk Head)	1
▽	9014166	(10000000-20000000)	Kit, Belt, Motor (Includes Installation Tool) (Cylid Head)	1
▲	1213132	(10000000-20000000)	Tool, Installation, Belt	1
	1215666	(10000000-20000000)	Skirt, Side, Cyl, Floating (Cylindrical Head)	2
	630477	(10000000-20000000)	Wheel, Pyu, 02.0d 0.38w, Gray (Cylindrical Head)	4
▽	1202880	(10000000-20000000)	Fan, Vacuum, 6.6d, 024vdc, 2 Stage	1
▲	1206774	(10000000-20000000)	Vr, Brush Kit, Motor, Fan (1 Pkg = 2 Pcs)	1
▽	9014872	(10785189-20000000)	Kit, Deflector, Tray, Debris, Ci, [T300]	1
▲	1225187	(10785189-20000000)	Seal, Rbr, Clsd, 12.7 Th , 24.0ld, 40.0Od	1
▲	1207357	(10000000-20000000)	Tray, Debris, Tank, Recvy [T300]	1
	9014905	(10786729-20000000)	Cover Kit, Circuitbreaker, Ci[T300/E/Ss]	1
	630052	(10000000-20000000)	Float, Shut- Off, (2)Ball, 1.75d	1
▽	1213008	(10000000-20000000)	Hose Assy, Drain, 1.5d 025l 1.5/Cap [Pu] (Gray)	1
▲	1219134	(10000000-20000000)	Cap, Drain Assy [Gray]	1
▽	1213010	(10000000-20000000)	Hose Assy, Drain, 1.5d 017l 1.5/Cap[Pvc] (Black)	1
▲	1218955	(10000000-20000000)	Cap, Drain Assy [Black]	1
	1204663	(10000000-20000000)	Hose Assy, W/2cuff, 1.5d 026l 1.5/1.5[Pu] (Gray)	1
	1211220	(10000000-20000000)	Hose Assy, W/2cuff, 1.5d 022l 1.5/1.5[Pvc] (Black)	1
▽	9014171	(10000000-20000000)	Hose Assy, With Valve	1
▲	1051986	(10000000-20000000)	Valve, Ball, 2way, 1.0id Pvc, W/Handle	1
▲	1222591	(10000000-20000000)	Hose Assy, 45cuff, 1.5d 021l 1.5/1.5[Pu] (Gray)	1
	1210472	(10000000-20000000)	Seal, Afmkt, Bulb, 0.50d .13grip, 05ft (Rec Tank Lid)	1
	1046428	(10000000-20000000)	Seal, Afmkt, Rbr, Clsd, Adh, 02ft (Front Fill Cover)	1
▽	1216386	(10000000-20000000)	Motor, Transaxle, 24vdc, Replmt [Ui, Ce]	1
▲	1212351	(10000000-20000000)	Brush Kit, Carbon, Transaxle, Ui (1 Kit = 4 Pcs)	1
▽	1219312	(10000000-20000000)	Fan, Vacuum, 5.7d, 024vdc, 2 Stage	1
▲	372883	(10000000-20000000)	Vr, Brush Kit, Motor, Ele (1 Pkg = 2 Pcs)	1

RECOMMENDED MAINTENANCE ITEMS

BRUSHES AND PAD DRIVER GROUP, 43CM DISK 3-LUG HUB

355330



BRUSHES AND PAD DRIVER GROUP, 43CM DISK 3- LUG HUB

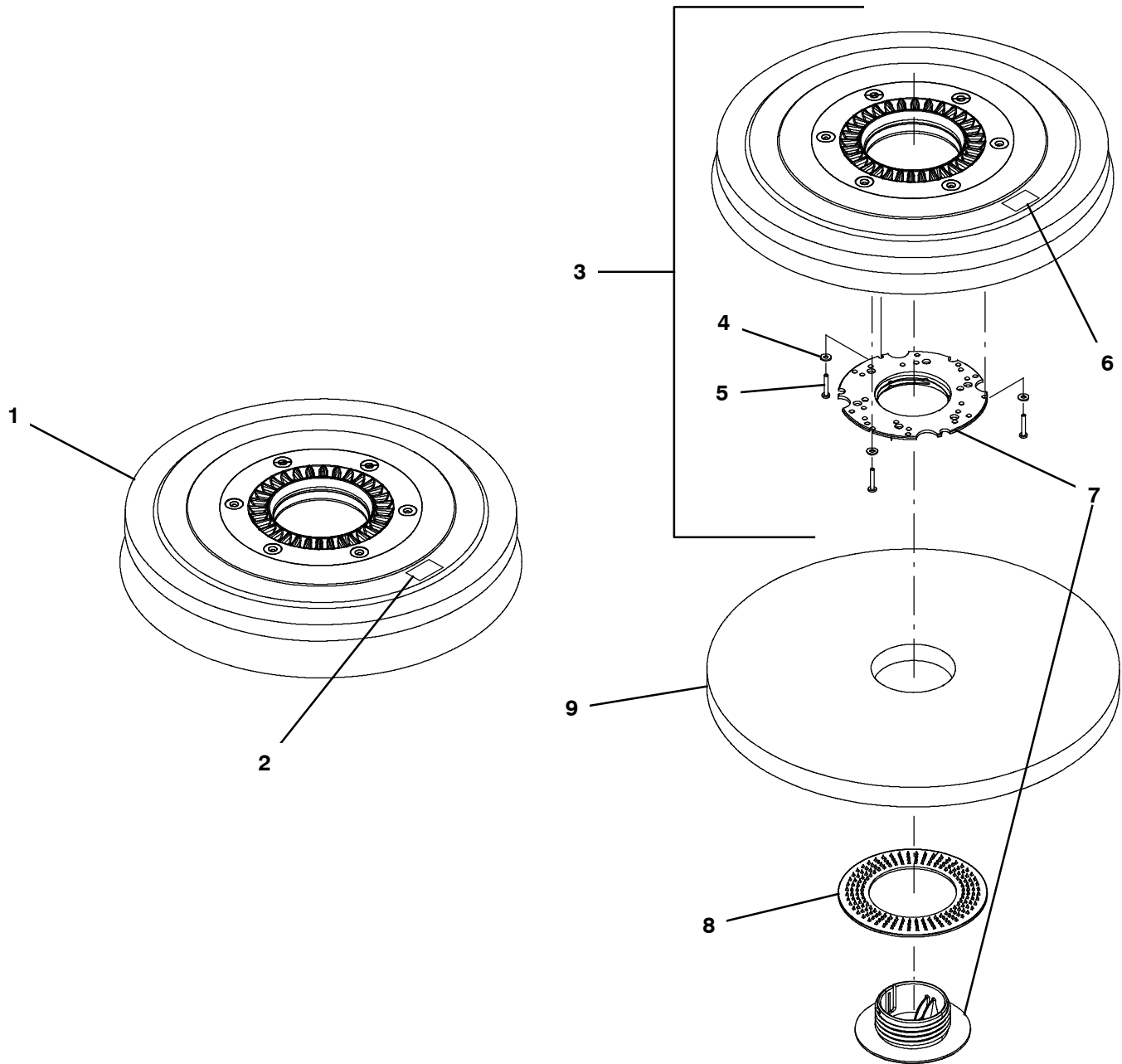
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1016763	(10000000- 20000000) Brush Assy, Disk, Scb, 17.0d, Abr	1
▽	1	1016764	(10000000- 20000000) Brush Assy, Disk, Scb, 17.0d, Nyl	1
▽	1	1016765	(10000000- 20000000) Brush Assy, Disk, Scb, 17.0d, Pyp	1
▲	2	1013018	(10000000- 20000000) Stud, Drive, Brush Pad	3
▲	3	1021316	(10000000- 20000000) Screw, Flt, Phl, M6 X 1.00 X 35, Ss	3
▽	4	1212965	(10000000- 20000000) Driver Assy, Pad, 43cm, Brush, 3 Lug	1
▲	5	1013018	(10000000- 20000000) Stud, Drive, Brush Pad	3
▲	6	1021316	(10000000- 20000000) Screw, Flt, Phl, M6 X 1.00 X 35, Ss	3
▲	7	41579	(10000000- 20000000) Washer, Flat, 08, Ss	3
▲	8	04403	(10000000- 20000000) Screw, Pan, Phl, M4 X 0.70 X 25, Nl, Ss	3
▲	9	32506	(10000000- 20000000) Device, Centering, Rh Pad Retainer	1
	10	32505	(10000000- 20000000) Washer, Flat, 92b 156d 2.6l, Pad Driver	1
	11	1050273	(10000000- 20000000) Pad, Polish, 17.0d, White [1pick=1pad]	1
	11	1050271	(10000000- 20000000) Pad, Buff, 17.0d, Red [1pick=1pad]	1
	11	1050270	(10000000- 20000000) Pad, Scb, 17.0d, Blue [1pick=1pad]	1
	11	1050267	(10000000- 20000000) Pad, Stripping, 17.0d, Brown[1pick=1pad]	1
	11	1050262	(10000000- 20000000) Pad, Stripping, 17.0d[Hi Pro,1pick=1pad]	1
	11	1051028	(10000000- 20000000) Pad, Surf Prep, 17.0d [Mar, 1pick=1pad]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

BRUSHES AND PAD DRIVER GROUP, 43CM DISK MAGNETIC HUB

355338



BRUSHES AND PAD DRIVER GROUP, 43CM DISK MAGNETIC HUB

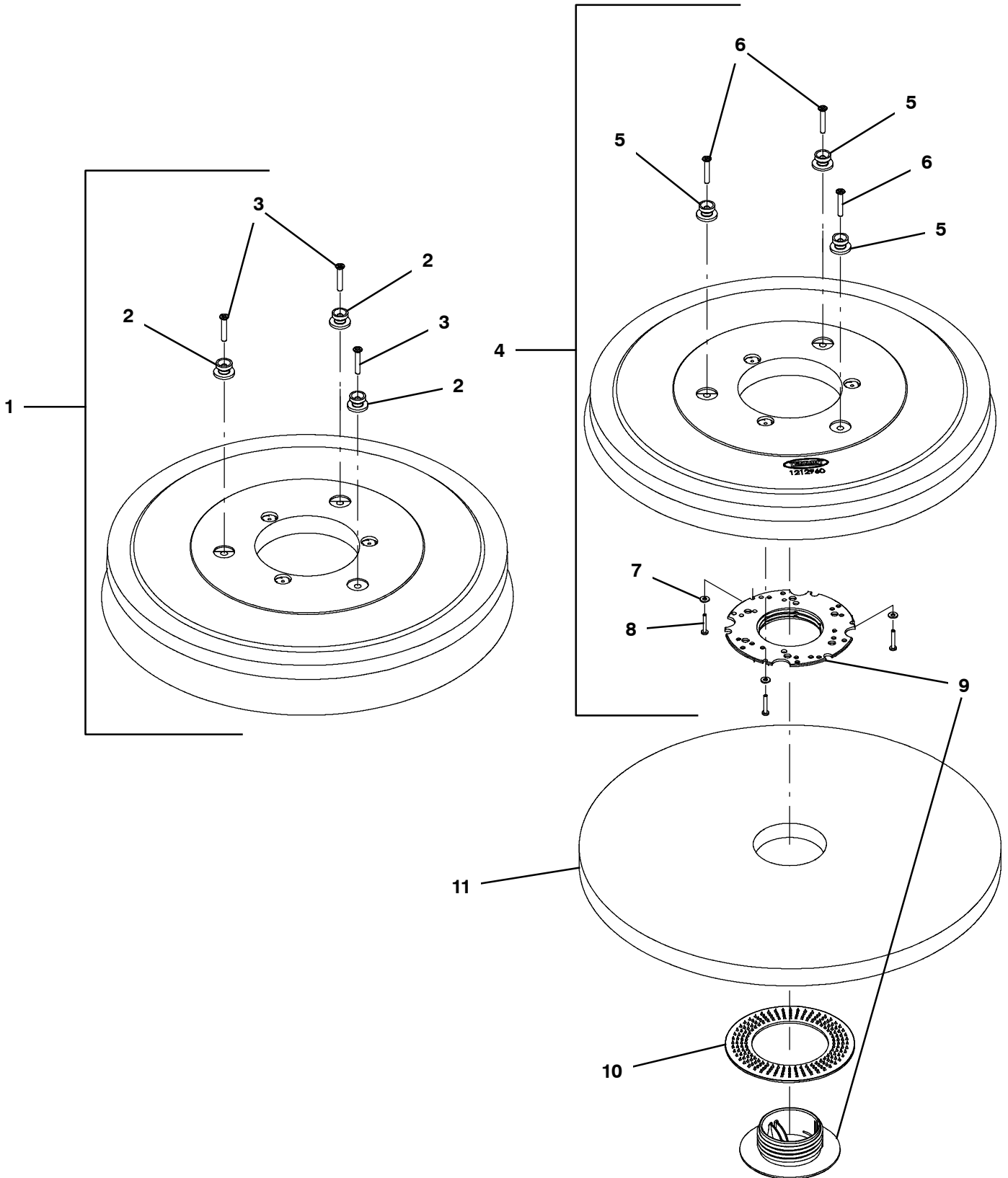
	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1213034	(10000000- 20000000)	Brush Assy, Disk, Scb, 43cm, Mag, Nyl	1
▽	1	1213035	(10000000- 20000000)	Brush Assy, Disk, Scb, 43cm, Mag, Pyp	1
▽	1	1213037	(10000000- 20000000)	Brush Assy, Disk, Scb, 43cm, Mag, Ab	1
▲	2	1218392	(10000000- 20000000)	Label, Safety, Magnet, Med	1
▽	3	1211869	(10000000- 20000000)	Driver Assy, Pad, 43cm, Brush, Magnetic	1
▲	4	41579	(10000000- 20000000)	Washer, Flat, 08, Ss	3
▲	5	1212542	(10000000- 20000000)	Screw, Pan, Phl, M4 X 0.70 X 12, Ni, Ss	3
▲	6	1218392	(10000000- 20000000)	Label, Safety, Magnet, Med	1
▲	7	32506	(10000000- 20000000)	Device, Centering, Rh Pad Retainer	1
	8	32505	(10000000- 20000000)	Washer, Flat, 92b 156d 2.6l, Pad Driver	1
	9	1050273	(10000000- 20000000)	Pad, Polish, 17.0d, White [1pick=1pad]	1
	9	1050271	(10000000- 20000000)	Pad, Buff, 17.0d, Red [1pick=1pad]	1
	9	1050270	(10000000- 20000000)	Pad, Scb, 17.0d, Blue [1pick=1pad]	1
	9	1050267	(10000000- 20000000)	Pad, Stripping, 17.0d, Brown[1pick=1pad]	1
	9	1050262	(10000000- 20000000)	Pad, Stripping, 17.0d[Hi Pro,1pick=1pad]	1
	9	1051028	(10000000- 20000000)	Pad, Surf Prep, 17.0d [Mar, 1pick=1pad]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

BRUSHES AND PAD DRIVER GROUP, 50CM DISK 3-LUG HUB

355331



BRUSHES AND PAD DRIVER GROUP, 50CM DISK 3- LUG HUB

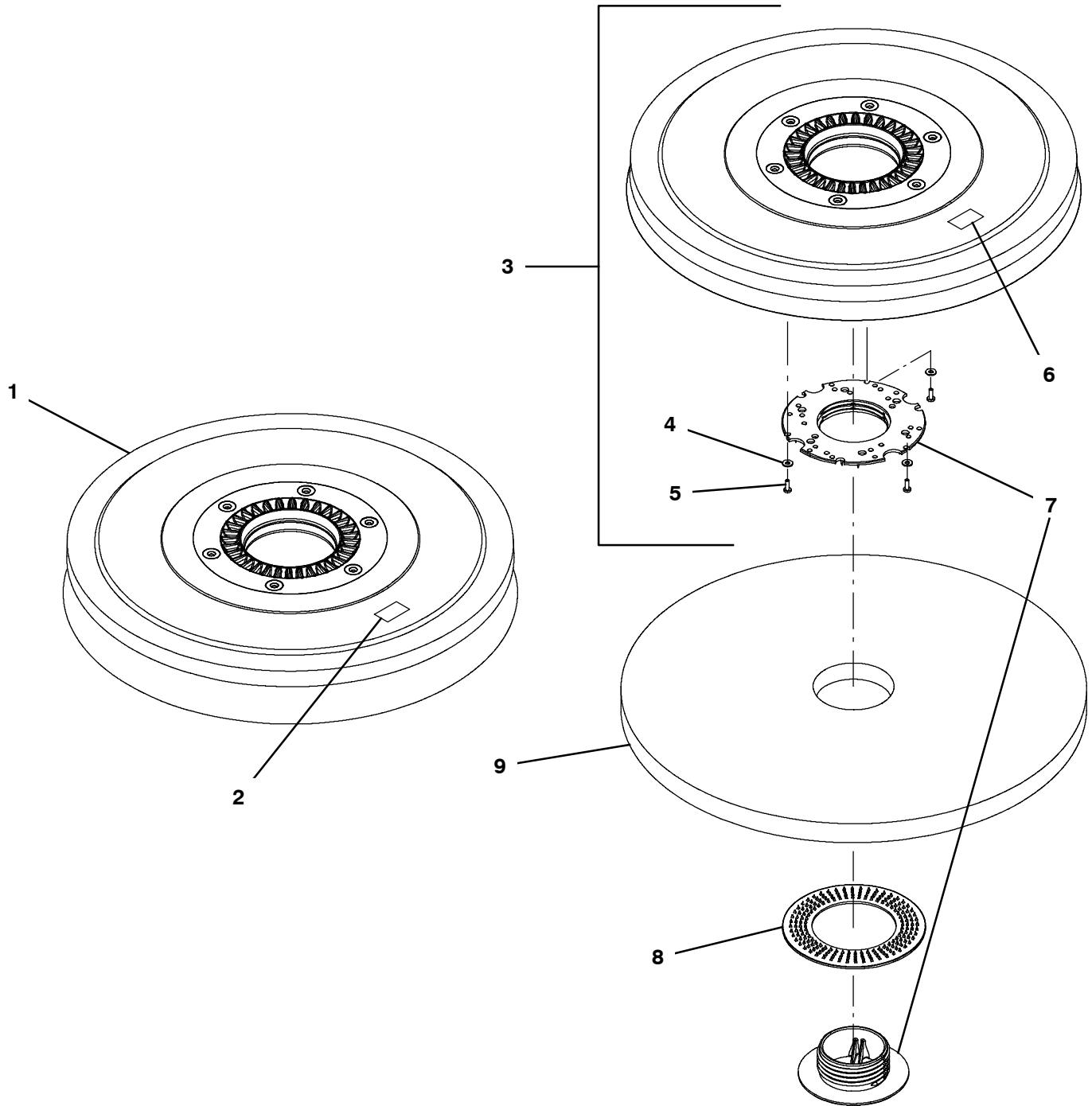
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1016805	(10000000- 20000000) Brush Assy, Disk, Scb, 20.0d, Abr	1
▽	1	1016810	(10000000- 20000000) Brush Assy, Disk, Scb, 20.0d, Nyl	1
▽	1	1016811	(10000000- 20000000) Brush Assy, Disk, Scb, 20.0d, Pyp	1
▲	2	1013018	(10000000- 20000000) Stud, Drive, Brush Pad	3
▲	3	1021316	(10000000- 20000000) Screw, Flt, Phl, M6 X 1.00 X 35, Ss	3
▽	4	1212960	(10000000- 20000000) Driver Assy, Pad, 50cm, Brush, 3 Lug	1
▲	5	1013018	(10000000- 20000000) Stud, Drive, Brush Pad	3
▲	6	1021316	(10000000- 20000000) Screw, Flt, Phl, M6 X 1.00 X 35, Ss	3
▲	7	41579	(10000000- 20000000) Washer, Flat, 08, Ss	3
▲	8	04403	(10000000- 20000000) Screw, Pan, Phl, M4 X 0.70 X 25, Nl, Ss	3
▲	9	32506	(10000000- 20000000) Device, Centering, Rh Pad Retainer	1
	10	32505	(10000000- 20000000) Washer, Flat, 92b 156d 2.6l, Pad Driver	1
	11	17260	(10000000- 20000000) Pad, Polish, 20.0d, White [1pick=1pad]	1
	11	17261	(10000000- 20000000) Pad, Buff, 20.0d, Red [1pick=1pad]	1
	11	17262	(10000000- 20000000) Pad, Scb, 20.0d, Blu [1pick=1pad]	1
	11	17263	(10000000- 20000000) Pad, Stripping, 20.0d, Brown[1pick=1pad]	1
	11	370094	(10000000- 20000000) Pad, Stripping, 20.0d[Hi Prod,1pick=1pad]	1
	11	1051030	(10000000- 20000000) Pad, Surf Prep, 20.0d [Mar, 1pick=1pad]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

BRUSHES AND PAD DRIVER GROUP, 50CM DISK MAGNETIC HUB

355339



BRUSHES AND PAD DRIVER GROUP, 50CM DISK MAGNETIC HUB

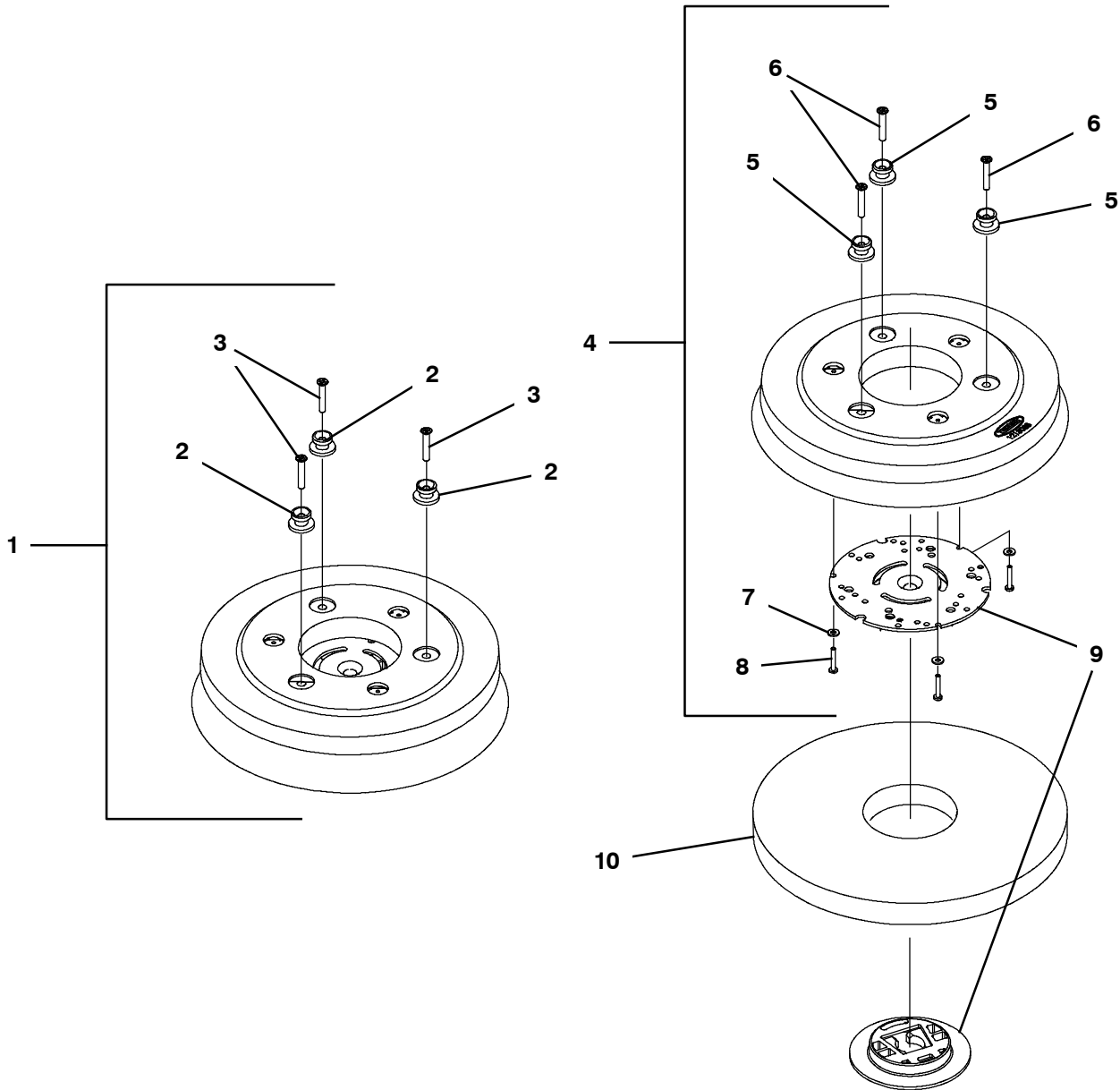
	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1210386	(10000000- 20000000)	Brush Assy, Disk, Scb, 50cm, Mag, Nyl	1
▽	1	1213032	(10000000- 20000000)	Brush Assy, Disk, Scb, 50cm, Mag, Pyp	1
▽	1	1213033	(10000000- 20000000)	Brush Assy, Disk, Scb, 50cm, Mag, Ab	1
▲	2	1218392	(10000000- 20000000)	Label, Safety, Magnet, Med	1
▽	3	1209197	(10000000- 20000000)	Driver Assy, Pad, 50cm, Brush, Magnetic	1
▲	4	41579	(10000000- 20000000)	Washer, Flat, 08, Ss	3
▲	5	1212542	(10000000- 20000000)	Screw, Pan, Phl, M4 X 0.70 X 12, Ni, Ss	3
▲	6	1218392	(10000000- 20000000)	Label, Safety, Magnet, Med	1
▲	7	32506	(10000000- 20000000)	Device, Centering, Rh Pad Retainer	1
	8	32505	(10000000- 20000000)	Washer, Flat, 92b 156d 2.6l, Pad Driver	1
	9	17260	(10000000- 20000000)	Pad, Polish, 20.0d, White [1pick=1pad]	1
	9	17261	(10000000- 20000000)	Pad, Buff, 20.0d, Red [1pick=1pad]	1
	9	17262	(10000000- 20000000)	Pad, Scb, 20.0d, Blu [1pick=1pad]	1
	9	17263	(10000000- 20000000)	Pad, Stripping, 20.0d, Brown[1pick=1pad]	1
	9	370094	(10000000- 20000000)	Pad, Stripping, 20.0d[Hi Prod,1pick=1pad]	1
	9	1051030	(10000000- 20000000)	Pad, Surf Prep, 20.0d [Mar, 1pick=1pad]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

BRUSHES AND PAD DRIVER GROUP, 60CM DUAL DISK 3-LUG HUB

355332



BRUSHES AND PAD DRIVER GROUP, 60CM DUAL DISK 3- LUG HUB

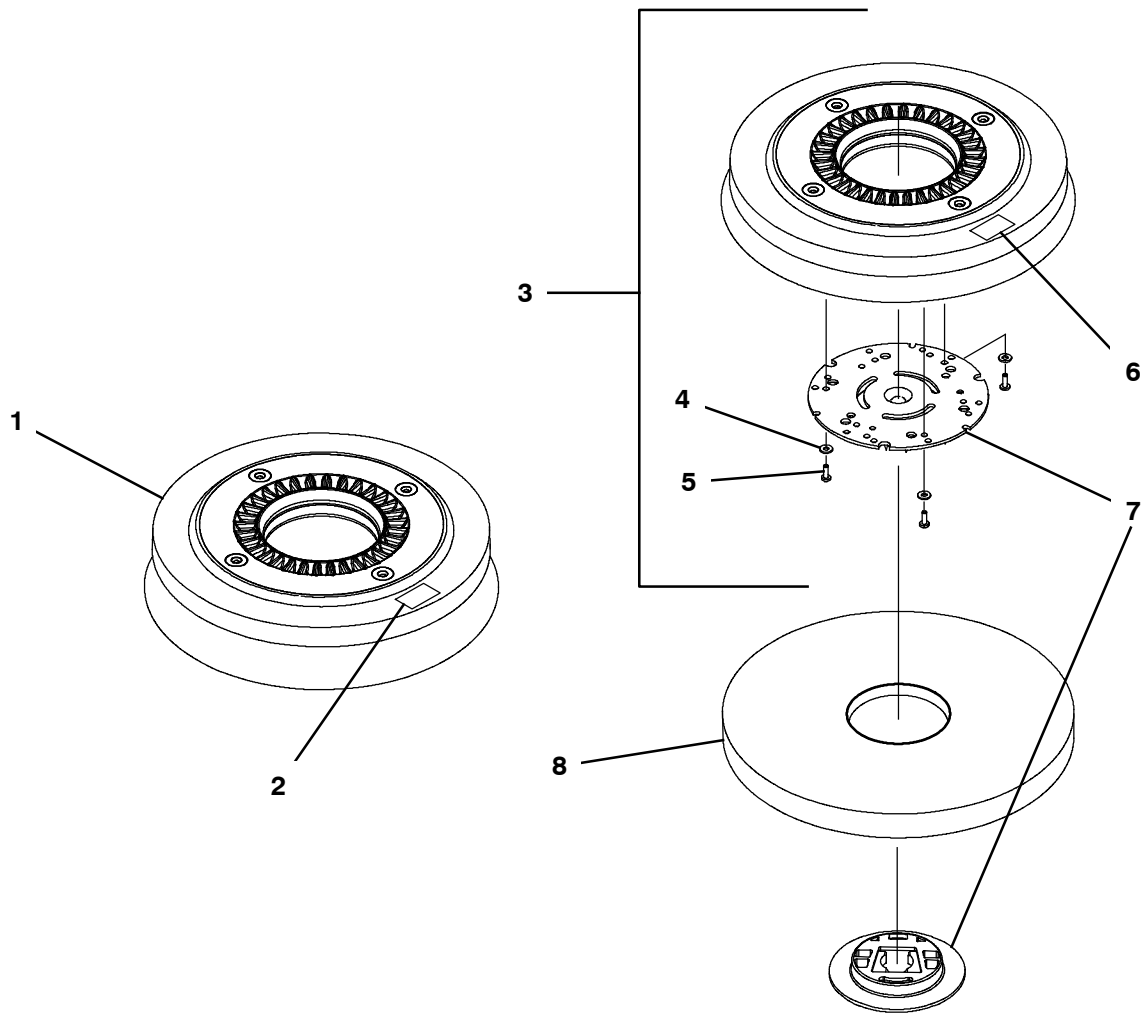
	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1056306	(10000000- 20000000)	Brush Assy, Disk, Scb, 12.0d, 3- Lug, Nyl	2
▽	1	1056313	(10000000- 20000000)	Brush Assy, Disk, Scb, 12.0d, 3- Lug, Pyp	2
▽	1	1063297	(10000000- 20000000)	Brush Assy, Disk, Scb, 12.0d, 3- Lug, Abr	2
▲	2	1055558	(10000000- 20000000)	Mount, Lug, Pad- Driver [T3]	3
▲	3	1021316	(10000000- 20000000)	Screw, Flt, Phl, M6 X 1.00 X 35, Ss	3
▽	4	1213038	(10000000- 20000000)	Driver Assy, Pad, 30cm, Brush, 3 Lug	2
▲	5	1055558	(10000000- 20000000)	Mount, Lug, Pad- Driver [T3]	3
▲	6	1021316	(10000000- 20000000)	Screw, Flt, Phl, M6 X 1.00 X 35, Ss	3
▲	7	41579	(10000000- 20000000)	Washer, Flat, 08, Ss	3
▲	8	04403	(10000000- 20000000)	Screw, Pan, Phl, M4 X 0.70 X 25, Ni, Ss	3
▲	9	370095	(10000000- 20000000)	Device, Centering, Clip On, TI [Gf Pp]	1
	10	385940	(10000000- 20000000)	Pad, Polish, 12.0d, White [1pick=1pad]	2
	10	385941	(10000000- 20000000)	Pad, Buff, 12.0d, Red [1pick=1pad]	2
	10	385942	(10000000- 20000000)	Pad, Scb, 12.0d, Blu [1pick=1pad]	2
	10	385943	(10000000- 20000000)	Pad, Stripping, 12.0d, Brown[1pick=1pad]	2
	10	1063334	(10000000- 20000000)	Pad, Stripping, 12.0d [Hi- Prod] Blk	2
	10	1051020	(10000000- 20000000)	Pad, Surf Prep, 12.0d [Mar, 1pick=1pad]	2

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

BRUSHES AND PAD DRIVER GROUP, 60CM DUAL DISK MAGNETIC HUB

355340



BRUSHES AND PAD DRIVER GROUP, 60CM DUAL DISK MAGNETIC HUB

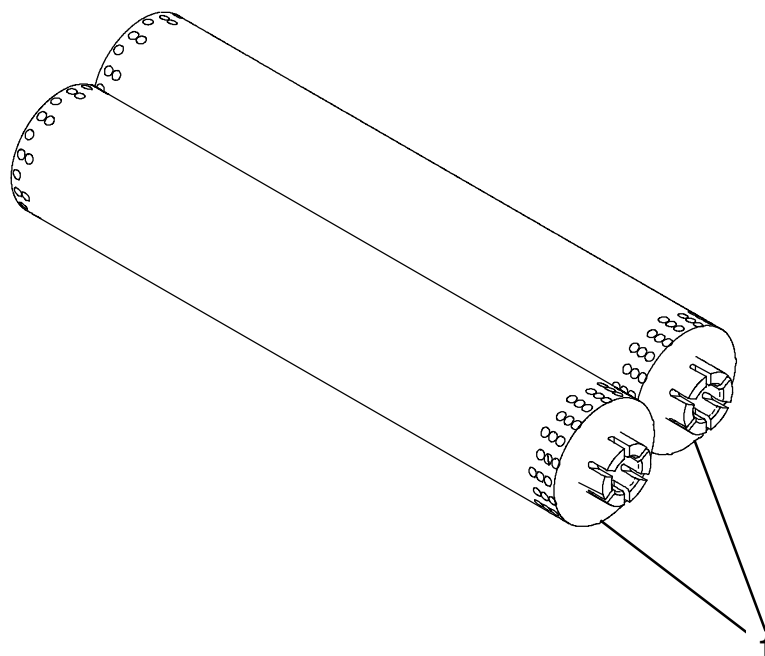
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1210136	(10000000- 20000000) Brush Assy, Disk, Scb, 30cm, Mag, Nyl	2
▽	1	1213040	(10000000- 20000000) Brush Assy, Disk, Scb, 30cm, Mag, Pyp	2
▽	1	1213041	(10000000- 20000000) Brush Assy, Disk, Scb, 30cm, Mag, Ab	2
▲	2	1218392	(10000000- 20000000) Label, Safety, Magnet, Med	1
▽	3	1209160	(10000000- 20000000) Driver Assy, Pad, 30cm, [Magnetic]	2
▲	4	41579	(10000000- 20000000) Washer, Flat, 08, Ss	3
▲	5	1212542	(10000000- 20000000) Screw, Pan, Phl, M4 X 0.70 X 12, Ni, Ss	3
▲	6	1218392	(10000000- 20000000) Label, Safety, Magnet, Med	1
▲	7	370095	(10000000- 20000000) Device, Centering, Clip On, Tl [Gf Pp]	1
	8	385940	(10000000- 20000000) Pad, Polish, 12.0d, White [1pick=1pad]	2
	8	385941	(10000000- 20000000) Pad, Buff, 12.0d, Red [1pick=1pad]	2
	8	385942	(10000000- 20000000) Pad, Scb, 12.0d, Blu [1pick=1pad]	2
	8	385943	(10000000- 20000000) Pad, Stripping, 12.0d, Brown[1pick=1pad]	2
	8	1063334	(10000000- 20000000) Pad, Stripping, 12.0d [Hi- Prod] Blk	2
	8	1051020	(10000000- 20000000) Pad, Surf Prep, 12.0d [Mar, 1pick=1pad]	2

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

BRUSHES GROUP, 50CM CYLINDRICAL

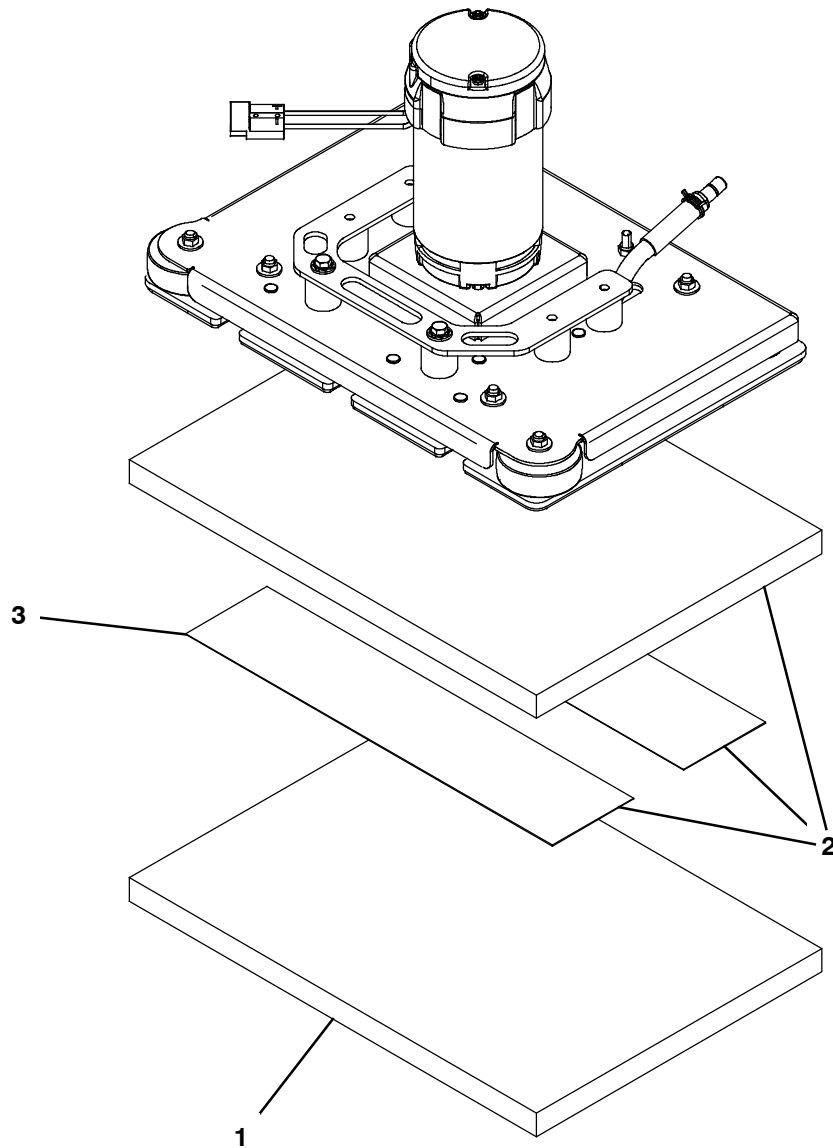
355333



Ref.	Part No.	Serial Number	Description	Qty.
1	1209188	(10000000-20000000)	Brush, Scb, 21l, 20sr, Nyl	2
1	1212762	(10000000-20000000)	Brush, Scb, 21l, 20sr, Pyp	2

PAD GROUP, 50CM ORBITAL

355334



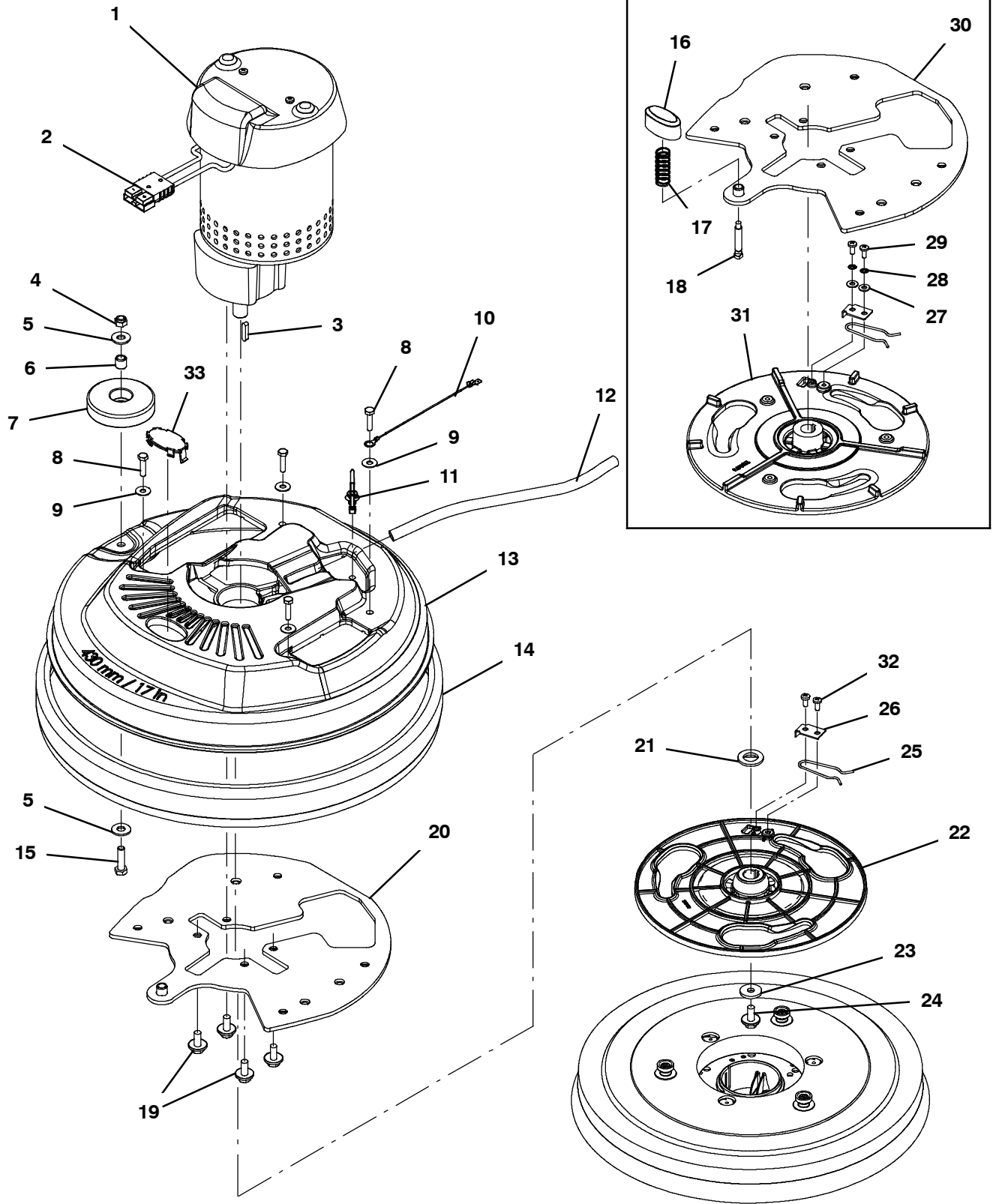
Ref.	Part No.	Serial Number	Description	Qty.
1	1205512	(10000000- 20000000)	Pad, Polish, 20 X 14, White [1pick=1pc]	1
1	1205513	(10000000- 20000000)	Pad, Buff, 20 X 14, Red [1pick=1pc]	1
1	1205514	(10000000- 20000000)	Pad, Scb, 20 X 14, Blu [1pick=1pc]	1
1	1205515	(10000000- 20000000)	Pad, Surf Prep, 20 X 14[Mar, 1pick=1pad]	1
▽	2	1217830	(10000000- 20000000) Pad, Backer, 20 X 14 (Includes Hook & Loop Fastener)	1
▲	3	1217945	(10000000- 20000000) Fastener, [Hook & Loop], Hook, 4w X 18l	2

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, 43CM DISK, 3-LUG HUB

355290



SCRUB HEAD GROUP, 43CM DISK, 3-LUG HUB

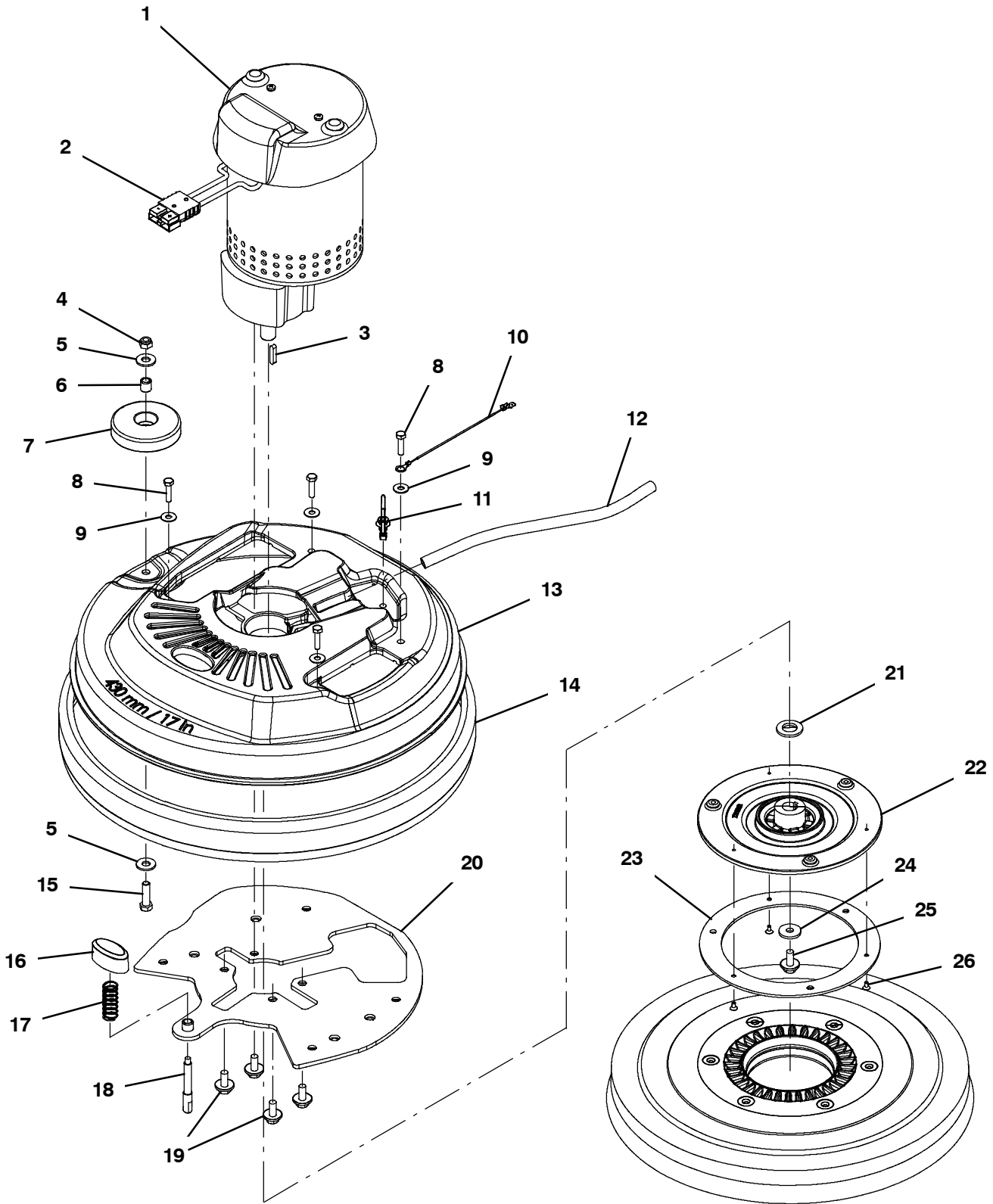
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1210703	(10000000- 20000000) Motor, Ele, 24vdc 0200rpm 1.00hp, 17mm	1
▲		222606	(10000000- 20000000) Vr, Brush Kit, Motor, Ele [lp] (4Pc) (For Imperial Motor - Frame #P56SG681)	1
▲		1045790	(10000000- 20000000) Brush Kit, Replmt, Carbon 24vdc[1pk=1set](4Pc) (For Sanrong Motor - Frame #56S)	1
▲	2	49548	(10000000- 20000000) Connector, Anderson, 050a, Red	1
▲	3	1014328	(10000000- 20000000) Key, Sq, 05mm X 05mm, 25mml	1
	4	08713	(10000000- 20000000) Nut, Hex, Lock, M8 X 1.25, NI, Ss	1
	5	01685	(10000000- 20000000) Washer, Flat, 0.38b 0.88d .08, Ss	2
	6	222460	(10000000- 20000000) Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	1
	7	1010560	(10000000- 20000000) Wheel, Bmpr, 80d X 25w, Non- Marking	1
	8	1016005	(10000000- 20000000) Screw, Hex, M6 X 1.00 X 25, NI, FI, Ss	4
	9	01684	(10000000- 20000000) Washer, Flat, 0.27b 0.69d .05, Ss	4
	10	1074344	(10000000- 20000000) Harness, Ele [Ring With .250m Tail]	1
	11	1210807	(10000000- 20000000) Wire, Tie [W/.25" Fir Tree Clip]	1
	12	9014145	(10000000- 20000000) Hose, Afmkt, Pe, .375id .50od, 05ft	1
	13	1212324	(10000000- 20000000) Housing, Head, 43cm	1
	14	1055019	(10000000- 20000000) Bumper, Head, 43cm, W/ Bristle Skirt, Im	1
	15	1016399	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 30, NI, Ss	1
	16	1211242	(10000000- 10791637) Button, Plunger, Pad	1
	17	1212785	(10000000- 10791637) Spring, Cmpr, .66od, .05wir, 1.75l, Ss	1
	18	1211907	(10000000- 10791637) Pin, Stop, Short	1
	19	1020341	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	4
	20	1223980	(10802498- 20000000) Plate Wldt, Head, Weighted	1
	21	1022549	(10000000- 20000000) Spacer, Shaft, 17.15b 30.0d 3.0l, Ss	1
	22	1219855	(10791638- 20000000) Hub, Drive, 3lug, Alm- Nyl, 17mm[T2,T300]	1
	23	1017218	(10000000- 20000000) Washer, Flat, 0.32b 1.00d .12, Ss	1
	24	1020341	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	1
	25	1013188	(10748031- 20000000) Clip, Spring, Drive Hub, Release [T3]	1
	26	1011201	(10748031- 20000000) Plate, Drive Hub, Release Clip [T3]	1
	27	01683	(10748031- 10791637) Washer, Flat, 10, Ss	2
	28	07514	(10748031- 10791637) Washer, Lock, Int, 10, Ss	2
	29	09200	(10748031- 10791637) Screw, Pan, Phl, M5 X 0.80 X 12, Ss	2
	30	1210590	(10000000- 10802497) Plate Wldt, Head, Weighted (Replaced By Kit 9014801)	1
	31	1210676	(10000000- 10791637) Hub, Drive, 3 Lug [Machined] (Replaced By Kit 9014623)	1
	32	140197	(10791638- 20000000) Screw, Trs, Phl, 10- 24 X 0.38, Sems, Ss	2
	33	1221972	(10791638- 20000000) Plug, Hole, Oval, Head, Hsng, Abs [T300]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, 43CM DISK, MAGNETIC HUB

355294



SCRUB HEAD GROUP, 43CM DISK, MAGNETIC HUB

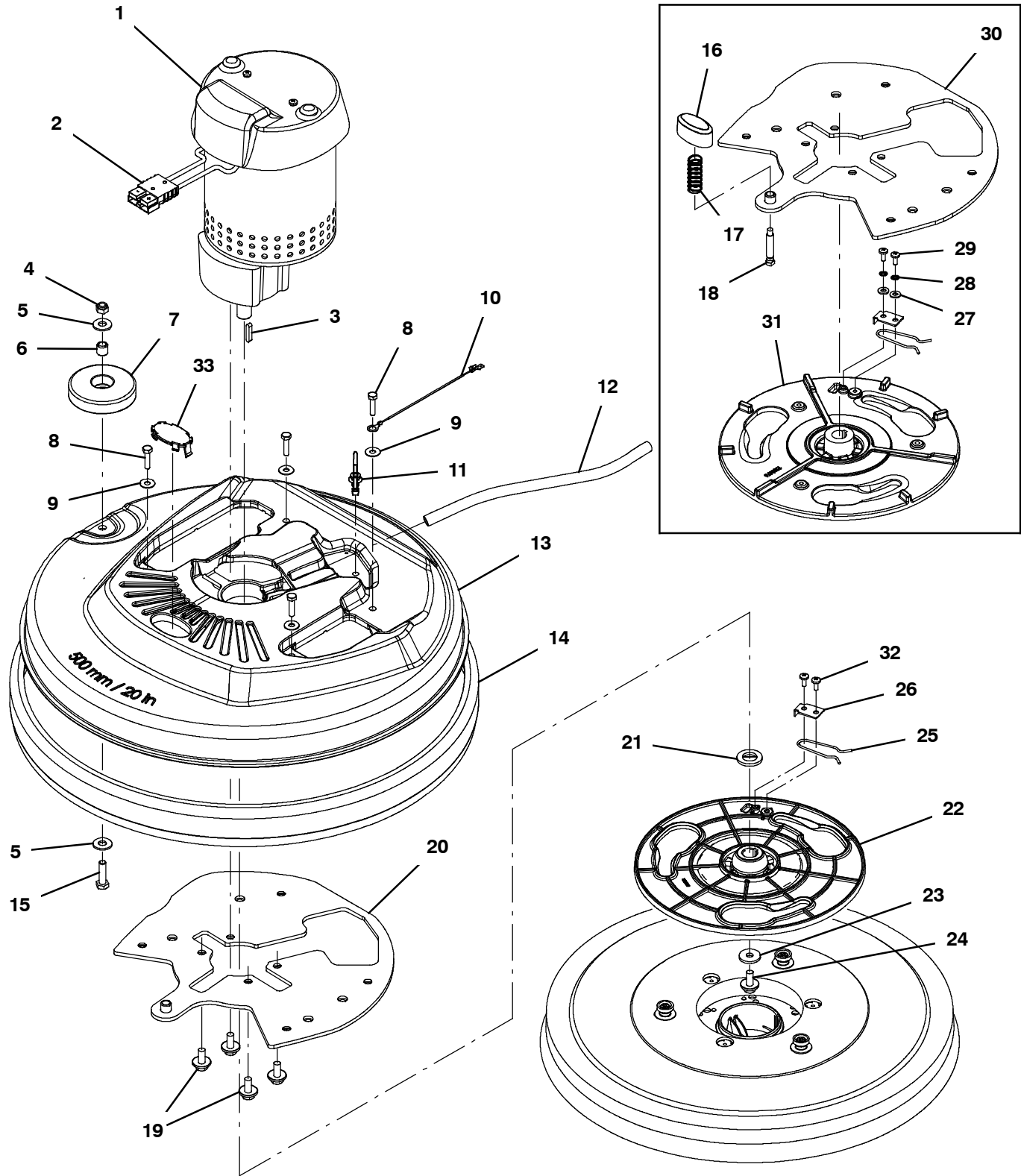
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1210703	(10000000- 20000000) Motor, Ele, 24vdc 0200rpm 1.00hp, 17mm	1
▲		222606	(10000000- 20000000) Vr, Brush Kit, Motor, Ele [lp] (4Pc) (For Imperial Motor - Frame #P56SG681)	1
▲		1045790	(10000000- 20000000) Brush Kit, Replmt, Carbon 24vdc[1pk=1set](4Pc) (For Sanrong Motor - Frame #56S)	1
▲	2	49548	(10000000- 20000000) Connector, Anderson, 050a, Red	1
▲	3	1014328	(10000000- 20000000) Key, Sq, 05mm X 05mm, 25mml	1
	4	08713	(10000000- 20000000) Nut, Hex, Lock, M8 X 1.25, NI, Ss	1
	5	01685	(10000000- 20000000) Washer, Flat, 0.38b 0.88d .08, Ss	2
	6	222460	(10000000- 20000000) Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	1
	7	1010560	(10000000- 20000000) Wheel, Bmpr, 80d X 25w, Non- Marking	1
	8	1016005	(10000000- 20000000) Screw, Hex, M6 X 1.00 X 25, NI, FI, Ss	4
	9	01684	(10000000- 20000000) Washer, Flat, 0.27b 0.69d .05, Ss	4
	10	1074344	(10000000- 20000000) Harness, Ele [Ring With .250m Tail]	1
	11	1210807	(10000000- 20000000) Wire, Tie [W/.25" Fir Tree Clip]	1
	12	9014145	(10000000- 20000000) Hose, Afmkt, Pe, .375id .50od, 05ft	1
	13	1212324	(10000000- 20000000) Housing, Head, 43cm	1
	14	1055019	(10000000- 20000000) Bumper, Head, 43cm, W/ Bristle Skirt, Im	1
	15	1016399	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 30, NI, Ss	1
	16	1211242	(10000000- 20000000) Button, Plunger, Pad	1
	17	1212785	(10000000- 20000000) Spring, Cmpr, .66od, .05wir, 1.75l, Ss	1
	18	1211256	(10000000- 20000000) Pin, Stop, Long	1
	19	1020341	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	4
	20	1210590	(10000000- 20000000) Plate Wldt, Head, Weighted	1
	21	1022549	(10000000- 20000000) Spacer, Shaft, 17.15b 30.0d 3.0l, Ss	1
	22	1212312	(10000000- 20000000) Hub, Drive, Magnetic [Machined]	1
	23	1205043	(10000000- 20000000) Ring, Hub, Magnetic	1
	24	1017218	(10000000- 20000000) Washer, Flat, 0.32b 1.00d .12, Ss	1
	25	1020341	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	1
	26	630114	(10000000- 20000000) Screw, Flt, Phl, M4 X 0.70 X 8, 4.8	3

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, 50CM DISK, 3-LUG HUB

355291



SCRUB HEAD GROUP, 50CM DISK, 3-LUG HUB

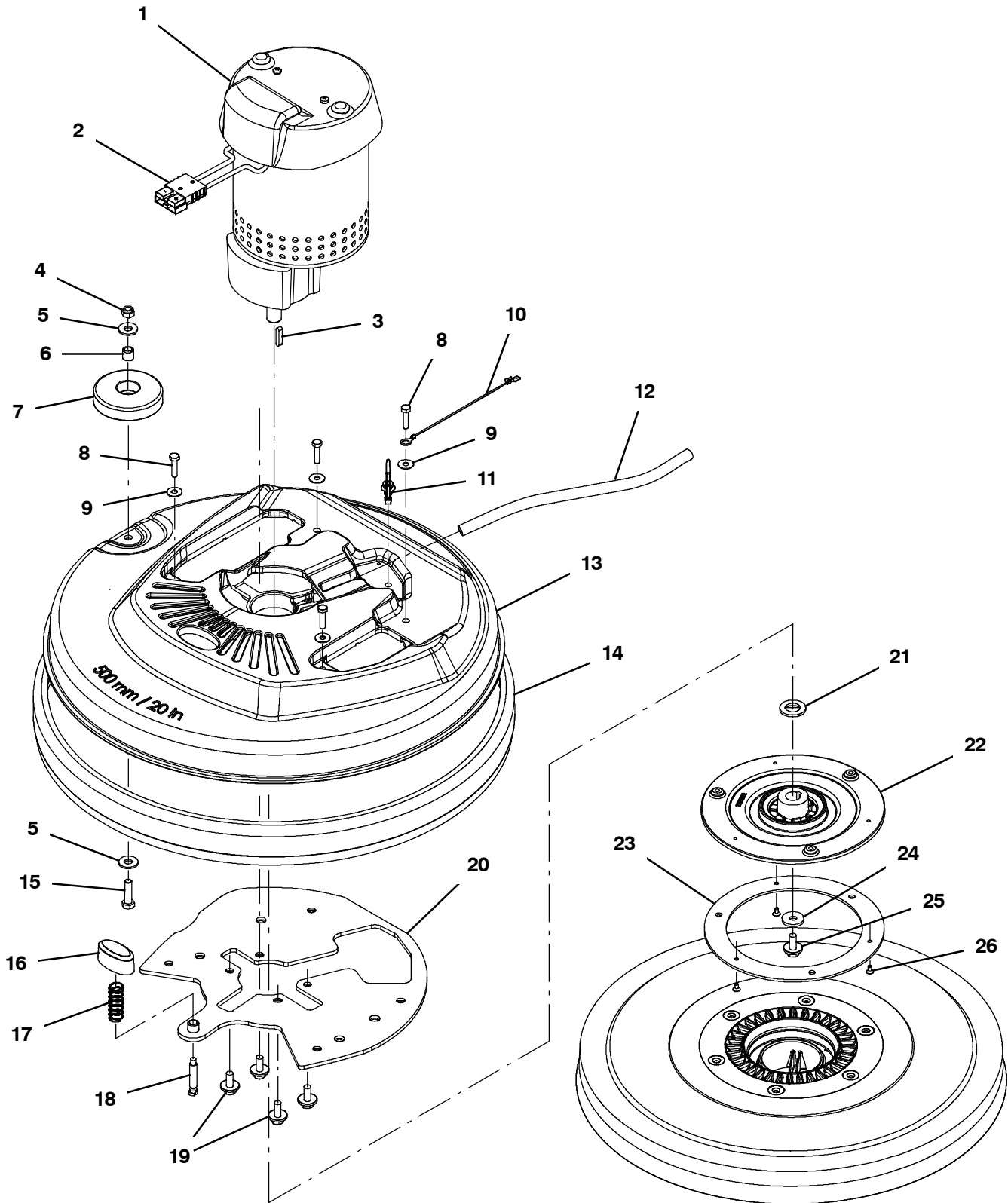
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1210703	(10000000- 20000000) Motor, Ele, 24vdc 0200rpm 1.00hp, 17mm	1
▲		222606	(10000000- 20000000) Vr, Brush Kit, Motor, Ele [lp] (4Pc) (For Imperial Motor - Frame #P56SG681)	1
▲		1045790	(10000000- 20000000) Brush Kit, Replmt, Carbon 24vdc[1pk=1set](4Pc) (For Sanrong Motor - Frame #56S)	1
▲	2	49548	(10000000- 20000000) Connector, Anderson, 050a, Red	1
▲	3	1014328	(10000000- 20000000) Key, Sq, 05mm X 05mm, 25mml	1
	4	08713	(10000000- 20000000) Nut, Hex, Lock, M8 X 1.25, NI, Ss	1
	5	01685	(10000000- 20000000) Washer, Flat, 0.38b 0.88d .08, Ss	2
	6	222460	(10000000- 20000000) Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	1
	7	1010560	(10000000- 20000000) Wheel, Bmpr, 80d X 25w, Non-Marking	1
	8	1016005	(10000000- 20000000) Screw, Hex, M6 X 1.00 X 25, NI, FI, Ss	4
	9	01684	(10000000- 20000000) Washer, Flat, 0.27b 0.69d .05, Ss	4
	10	1074344	(10000000- 20000000) Harness, Ele [Ring With .250m Tail]	1
	11	1210807	(10000000- 20000000) Wire, Tie [W/.25" Fir Tree Clip]	1
	12	9014145	(10000000- 20000000) Hose, Afmkt, Pe, .375id .50od, 05ft	1
	13	1208041	(10000000- 20000000) Housing, Head, 50cm	1
	14	1055025	(10000000- 20000000) Bumper, Head, 50cm, W/ Bristle Skirt, Im	1
	15	1016399	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 30, NI, Ss	1
	16	1211242	(10000000- 10791637) Button, Plunger, Pad	1
	17	1212785	(10000000- 10791637) Spring, Cmpr, .66od, .05wir, 1.75l, Ss	1
	18	1211907	(10000000- 10791637) Pin, Stop, Short	1
	19	1020341	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	4
	20	1223980	(10499417- 20000000) Plate Wldt, Head, Weighted	1
	21	1022549	(10000000- 20000000) Spacer, Shaft, 17.15b 30.0d 3.0l, Ss	1
	22	1219855	(10791638- 20000000) Hub, Drive, 3lug, Alm- Nyl, 17mm[T2,T300]	1
	23	1017218	(10000000- 20000000) Washer, Flat, 0.32b 1.00d .12, Ss	1
	24	1020341	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	1
	25	1013188	(10748031- 20000000) Clip, Spring, Drive Hub, Release [T3]	1
	26	1011201	(10748031- 20000000) Plate, Drive Hub, Release Clip [T3]	1
	27	01683	(10748031- 10791637) Washer, Flat, 10, Ss	2
	28	07514	(10748031- 10791637) Washer, Lock, Int, 10, Ss	2
	29	09200	(10748031- 10791637) Screw, Pan, Phl, M5 X 0.80 X 12, Ss	2
	30	1210590	(10000000- 10499416) Plate Wldt, Head, Weighted (Replaced By Kit 9014801)	1
	31	1210676	(10000000- 10791637) Hub, Drive, 3 Lug [Machined] (Replaced By Kit 9014623)	1
	32	140197	(10791638- 20000000) Screw, Trs, Phl, 10- 24 X 0.38, Sems, Ss	2
	33	1221972	(10791638- 20000000) Plug, Hole, Oval, Head, Hsng, Abs [T300]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, 50CM DISK, MAGNETIC HUB

355295



SCRUB HEAD GROUP, 50CM DISK, MAGNETIC HUB

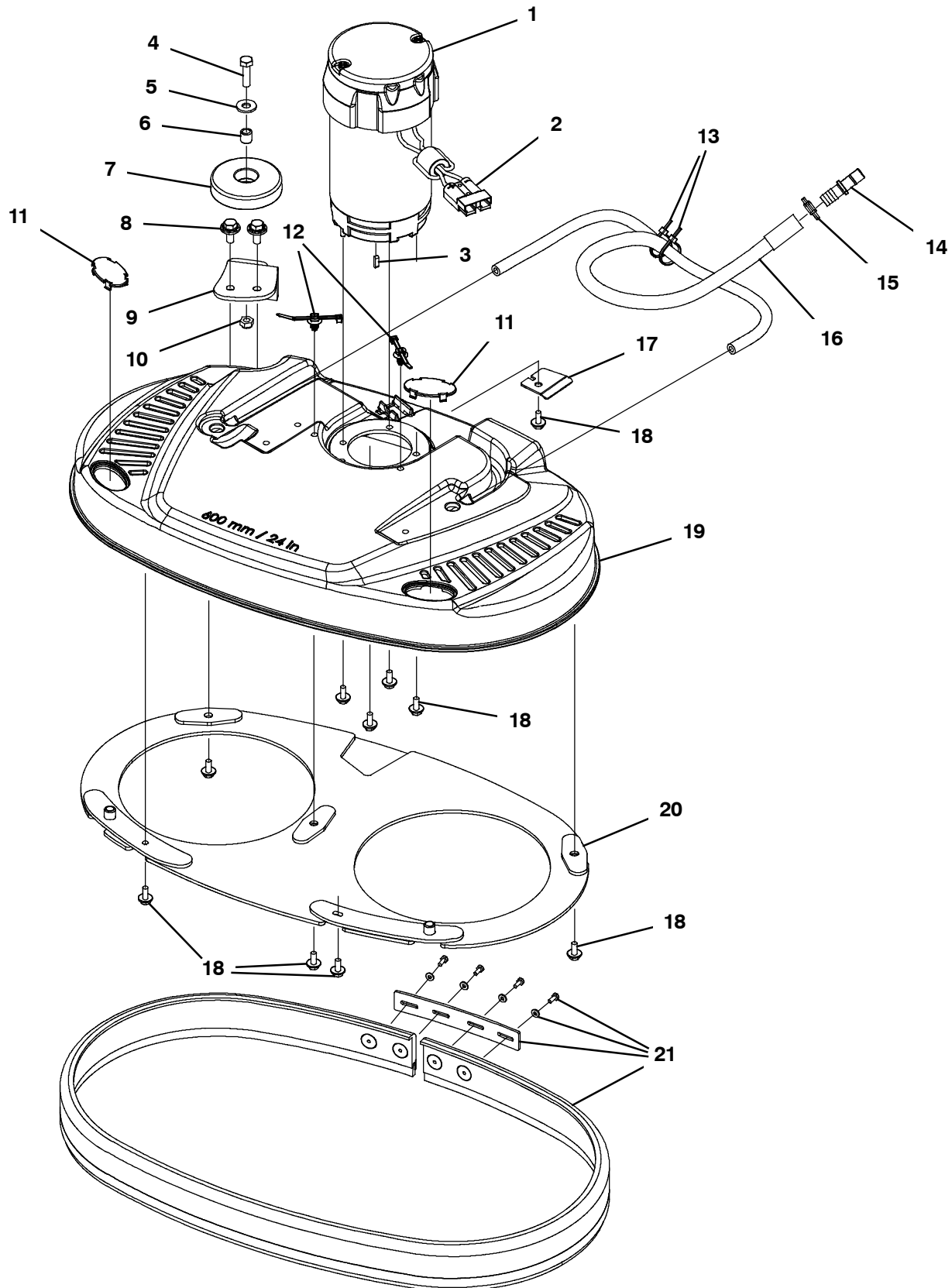
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1210703	(10000000- 20000000) Motor, Ele, 24vdc 0200rpm 1.00hp, 17mm	1
▲		222606	(10000000- 20000000) Vr, Brush Kit, Motor, Ele [lp] (4Pc) (For Imperial Motor - Frame #P56SG681)	1
▲		1045790	(10000000- 20000000) Brush Kit, Replmt, Carbon 24vdc[1pk=1set](4Pc) (For Sanrong Motor - Frame #56S)	1
▲	2	49548	(10000000- 20000000) Connector, Anderson, 050a, Red	1
▲	3	1014328	(10000000- 20000000) Key, Sq, 05mm X 05mm, 25mml	1
	4	08713	(10000000- 20000000) Nut, Hex, Lock, M8 X 1.25, NI, Ss	1
	5	01685	(10000000- 20000000) Washer, Flat, 0.38b 0.88d .08, Ss	2
	6	222460	(10000000- 20000000) Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	1
	7	1010560	(10000000- 20000000) Wheel, Bmpr, 80d X 25w, Non- Marking	1
	8	1016005	(10000000- 20000000) Screw, Hex, M6 X 1.00 X 25, NI, FI, Ss	4
	9	01684	(10000000- 20000000) Washer, Flat, 0.27b 0.69d .05, Ss	4
	10	1074344	(10000000- 20000000) Harness, Ele [Ring With .250m Tail]	1
	11	1210807	(10000000- 20000000) Wire, Tie [W/.25" Fir Tree Clip]	1
	12	9014145	(10000000- 20000000) Hose, Afmkt, Pe, .375id .50od, 05ft	1
	13	1208041	(10000000- 20000000) Housing, Head, 50cm	1
	14	1055025	(10000000- 20000000) Bumper, Head, 50cm, W/ Bristle Skirt, Im	1
	15	1016399	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 30, NI, Ss	1
	16	1211242	(10000000- 20000000) Button, Plunger, Pad	1
	17	1212785	(10000000- 20000000) Spring, Cmpr, .66od, .05wir, 1.75l, Ss	1
	18	1211256	(10000000- 20000000) Pin, Stop, Long	1
	19	1020341	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	4
	20	1210590	(10000000- 20000000) Plate Wldt, Head, Weighted	1
	21	1022549	(10000000- 20000000) Spacer, Shaft, 17.15b 30.0d 3.0l, Ss	1
	22	1212312	(10000000- 20000000) Hub, Drive, Magnetic [Machined]	1
	23	1205043	(10000000- 20000000) Ring, Hub, Magnetic	1
	24	1017218	(10000000- 20000000) Washer, Flat, 0.32b 1.00d .12, Ss	1
	25	1020341	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	1
	26	630114	(10000000- 20000000) Screw, Flt, Phl, M4 X 0.70 X 8, 4.8	3

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, 60CM DUAL DISK, 3-LUG HUB

355292



SCRUB HEAD GROUP, 60CM DUAL DISK, 3-LUG HUB

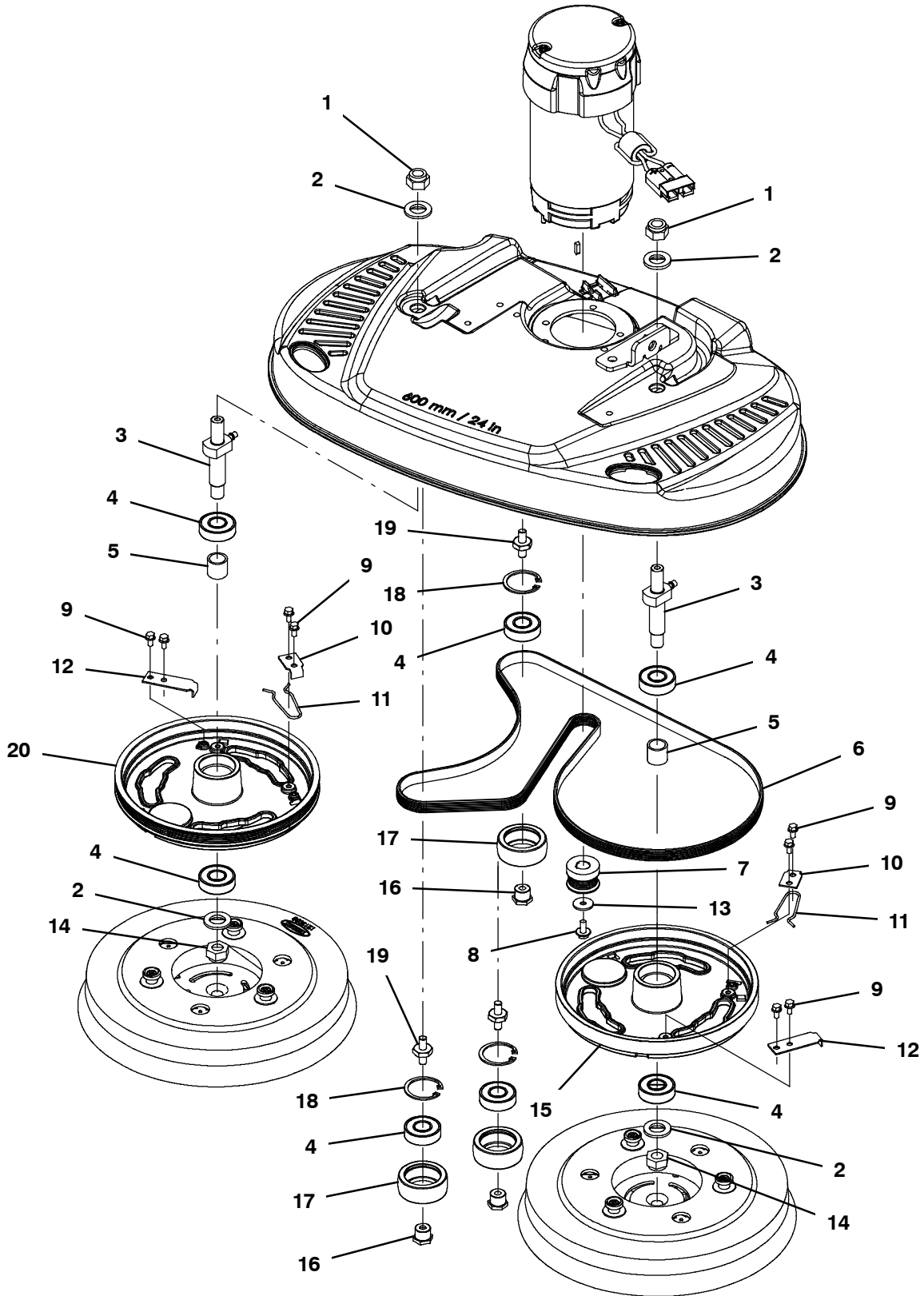
	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1210212	(10000000-20000000)	Motor, 24vdc, 2000rpm, 7/8hp, Us	1
▲		1059370	(10000000-20000000)	Brush, Motor, Replmt [Bag Of 4]	1
▲	2	49548	(10000000-20000000)	Connector, Anderson, 050a, Red	1
▲	3	1217769	(10000000-20000000)	Key, Sq, 04mm X 04mm, 15mml	1
	4	09011	(10000000-20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	1
	5	01685	(10000000-20000000)	Washer, Flat, 0.38b 0.88d .08, Ss	1
	6	222460	(10000000-20000000)	Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	1
	7	1010560	(10000000-20000000)	Wheel, Bmpr, 80d X 25w, Non-Marking	1
	8	1020341	(10000000-20000000)	Screw, Hex, M8 X 1.25 X 20, Ss, Sems	2
	9	1211506	(10000000-20000000)	Bracket, Rlr, Wall, Scb Head	1
	10	08713	(10000000-20000000)	Nut, Hex, Lock, M8 X 1.25, Nl, Ss	1
	11	1212288	(10000000-20000000)	Cover, Hole, Plunger	2
	12	1210807	(10000000-20000000)	Wire, Tie [W/.25" Fir Tree Clip]	2
	13	130773	(10000000-20000000)	Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	2
	14	1212807	(10000000-20000000)	Fitting, Plstc, Str, Qm08/Bm08	1
	15	607776	(10000000-20000000)	Clamp, Hose, Wir, .73 - .77, Silver	1
	16	1216084	(10000000-20000000)	Manifold, Distribution, Water, 60dd [Vw]	1
	17	1217752	(10000000-20000000)	Bracket, Belt Guide	1
	18	1034731	(10000000-20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	10
	19	1211027	(10000000-20000000)	Housing, Head, 60cm [Machined]	1
	20	1216346	(10000000-20000000)	Bracket Wldt, Guard, Splash, 60cm	1
	21	1072656	(10000000-20000000)	Bumper, Head, 60cm, Bristle Skirt	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, 60CM DUAL DISK, 3-LUG HUB - CONT'D

355335

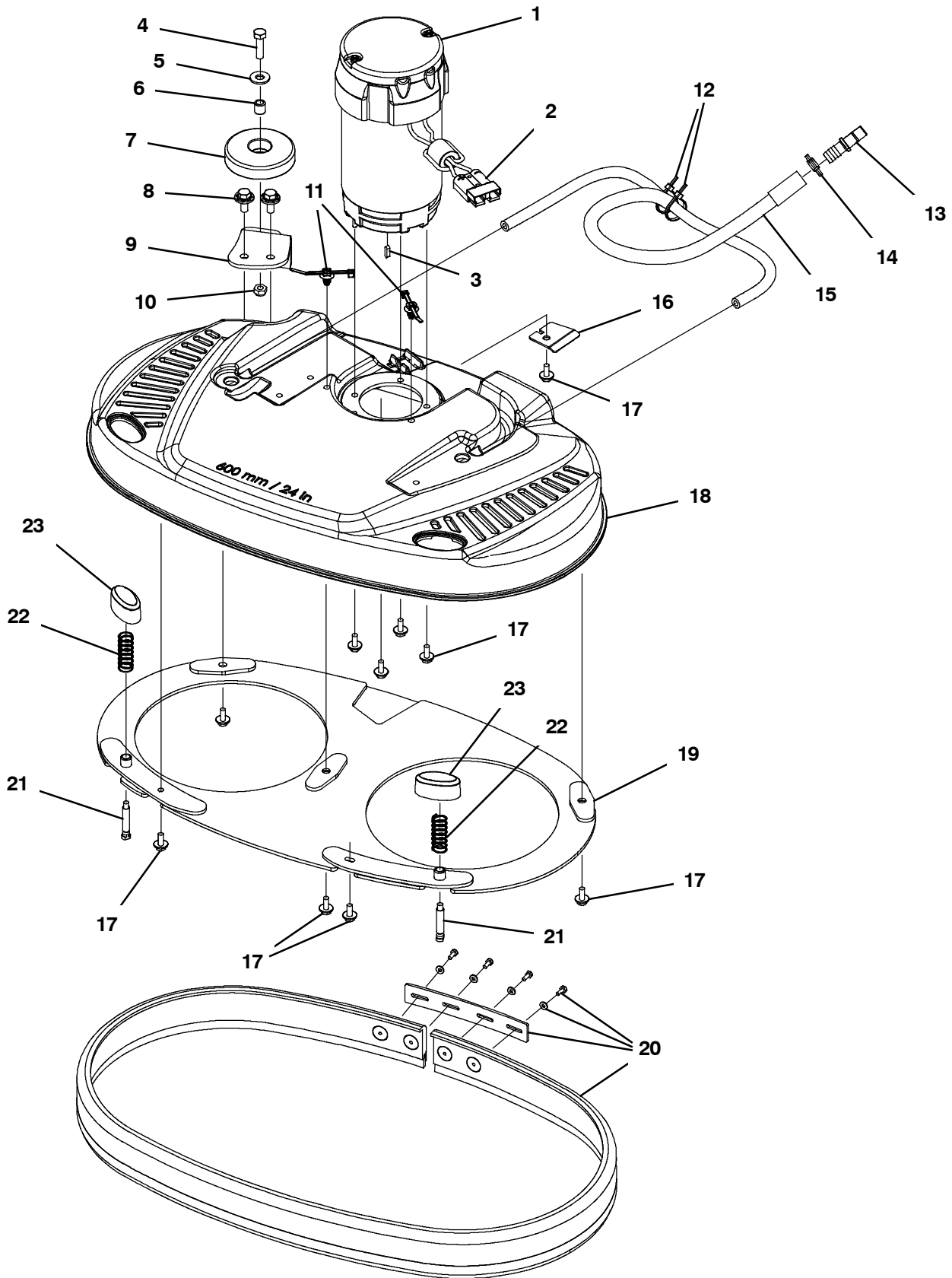


SCRUB HEAD GROUP, 60CM DUAL DISK, 3-LUG HUB - CONT'D

Ref.	Part No.	Serial Number	Description	Qty.
1	41517	(10000000- 20000000)	Nut, Hex, Lock, M14 X 2.00, NI	2
2	1022549	(10000000- 20000000)	Spacer, Shaft, 17.15b 30.0d 3.0l, Ss	4
3	1214206	(10000000- 20000000)	Shaft Wldt, Mtg, Pulley	2
4	1211187	(10000000- 20000000)	Bearing, Ball, 0.67b 1.57d 0.47w [6203]	7
5	1011041	(10000000- 20000000)	Tube, 0.69id 0.87od 00.8l, Stl, PI	2
6	1055305	(10000000- 20000000)	Belt, Drive, 6pj, Ej139 [T3]	1
7	1213927	(10000000- 20000000)	Sheave, 06grv, 1.25pd 0.54b, Ss [Keyed]	1
8	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	1
9	223198	(10000000- 20000000)	Screw, Hex, M5 X 0.80 X 10, Fmg	8
10	1011201	(10000000- 20000000)	Plate, Drive Hub, Release Clip [T3]	2
11	1013188	(10000000- 20000000)	Clip, Spring, Drive Hub, Release [T3]	2
12	1013592	(10000000- 20000000)	Plate, Drive Hub, Release Stop [T3 Dd]	2
13	019680127	(10000000- 20000000)	Washer, Flat, 6.2mm Id X 22.0mm Od X 1.9	1
14	41517	(10000000- 20000000)	Nut, Hex, Lock, M14 X 2.00, NI	2
15	1059205	(10000000- 20000000)	Hub, Drive, 3lug, Alm, 2disk, Flt	1
16	1011008	(10000000- 20000000)	Spacer, Brg, Idler	3
17	1058514	(10000000- 20000000)	Pulley, Idler, 55d X 21w[60cm Dual Disk]	3
18	1013884	(10000000- 20000000)	Ring, Retaining, Int, 40mm, Ss	3
19	1211624	(10000000- 20000000)	Stud, M8 X 1.25, Dbl End W/Hex, Ss	3
20	1059206	(10000000- 20000000)	Hub, Drive, 3lug, Alm, 2disk, 6grv	1

SCRUB HEAD GROUP, 60CM DUAL DISK, MAGNETIC HUB

355296



SCRUB HEAD GROUP, 60CM DUAL DISK, MAGNETIC HUB

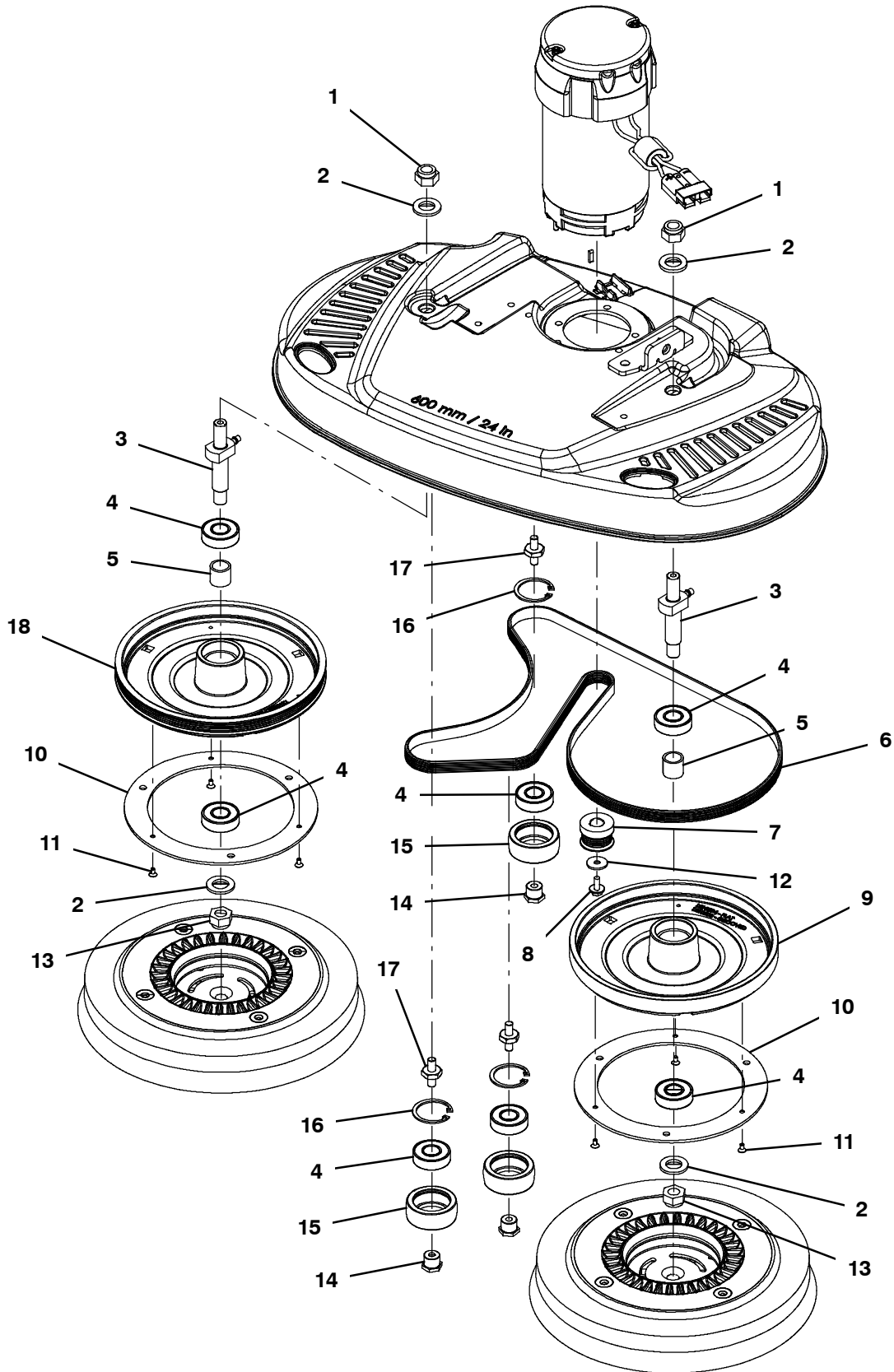
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1210212	(10000000- 20000000) Motor, 24vdc, 2000rpm, 7/8hp, Us	1
▲		1059370	(10000000- 20000000) Brush, Motor, Replmt [Bag Of 4]	1
▲	2	49548	(10000000- 20000000) Connector, Anderson, 050a, Red	1
▲	3	1217769	(10000000- 20000000) Key, Sq, 04mm X 04mm, 15mml	1
	4	09011	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 30, Ss	1
	5	01685	(10000000- 20000000) Washer, Flat, 0.38b 0.88d .08, Ss	1
	6	222460	(10000000- 20000000) Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	1
	7	1010560	(10000000- 20000000) Wheel, Bmpr, 80d X 25w, Non- Marking	1
	8	1020341	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	2
	9	1211506	(10000000- 20000000) Bracket, Rlr, Wall, Scb Head	1
	10	08713	(10000000- 20000000) Nut, Hex, Lock, M8 X 1.25, Nl, Ss	1
	11	1210807	(10000000- 20000000) Wire, Tie [W/.25" Fir Tree Clip]	2
	12	130773	(10000000- 20000000) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	2
	13	1212807	(10000000- 20000000) Fitting, Plstc, Str, Qm08/Bm08	1
	14	607776	(10000000- 20000000) Clamp, Hose, Wir, .73 - .77, Silver	1
	15	1216084	(10000000- 20000000) Manifold, Distribution, Water, 60dd [Vw]	1
	16	1217752	(10000000- 20000000) Bracket, Belt Guide	1
	17	1034731	(10000000- 20000000) Screw, Hex, M6 X 1.00 X 16, Sems, Ss	10
	18	1211027	(10000000- 20000000) Housing, Head, 60cm [Machined]	1
	19	1216346	(10000000- 20000000) Bracket Wldt, Guard, Splash, 60cm	1
	20	1072656	(10000000- 20000000) Bumper, Head, 60cm, Bristle Skirt	1
	21	1211907	(10000000- 20000000) Pin, Stop, Short	2
	22	1212785	(10000000- 20000000) Spring, Cmpr, .66od, .05wir, 1.75l, Ss	2
	23	1211242	(10000000- 20000000) Button, Plunger, Pad	2

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, 60CM DUAL DISK, MAGNETIC HUB - CONT'D

355336

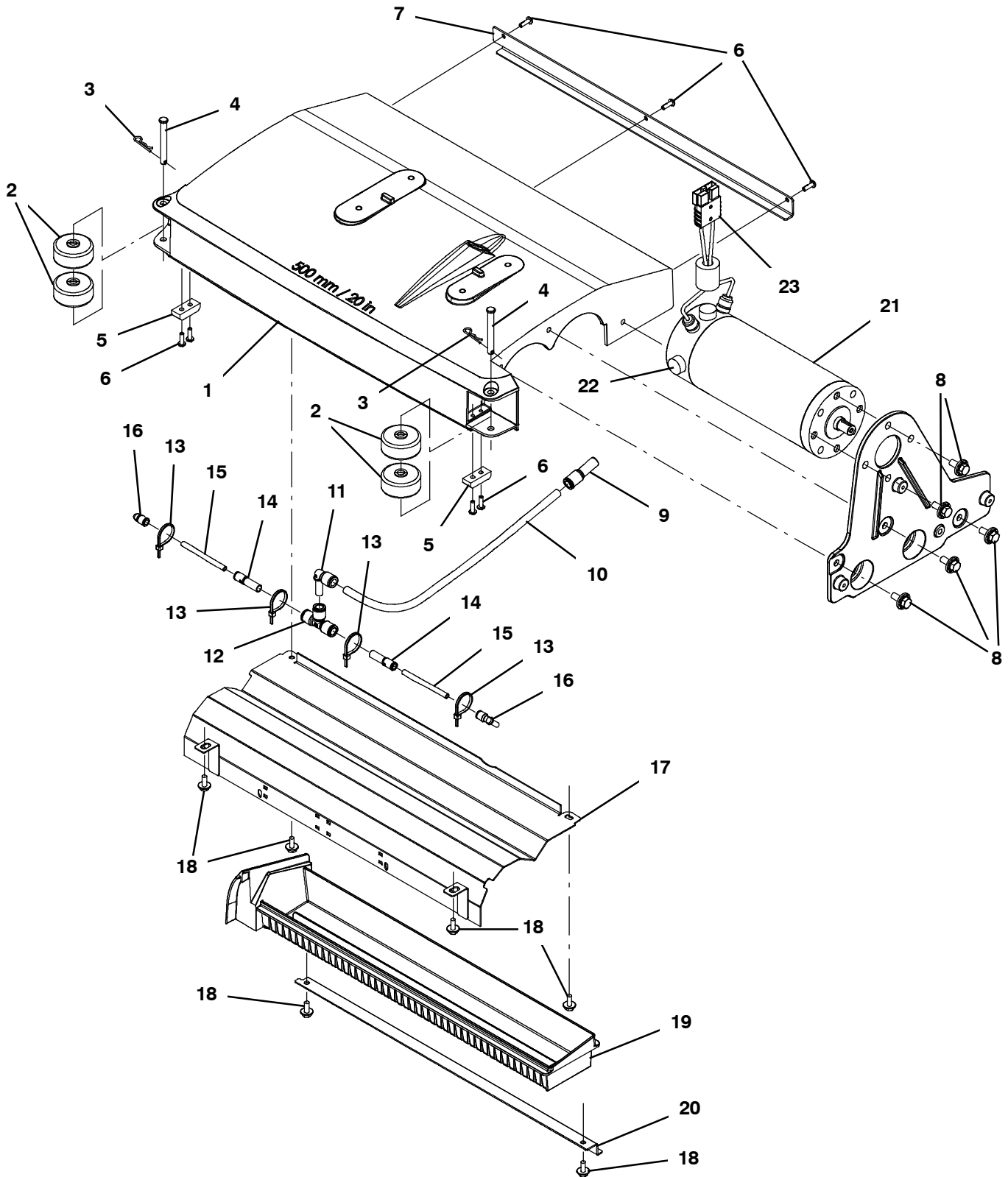


SCRUB HEAD GROUP, 60CM DUAL DISK, MAGNETIC HUB - CONT'D

Ref.	Part No.	Serial Number	Description	Qty.
1	41517	(10000000- 20000000)	Nut, Hex, Lock, M14 X 2.00, NI	2
2	1022549	(10000000- 20000000)	Spacer, Shaft, 17.15b 30.0d 3.0l, Ss	4
3	1214206	(10000000- 20000000)	Shaft Wldt, Mtg, Pulley	2
4	1211187	(10000000- 20000000)	Bearing, Ball, 0.67b 1.57d 0.47w [6203]	7
5	1011041	(10000000- 20000000)	Tube, 0.69id 0.87od 00.8l, Stl, PI	2
6	1055305	(10000000- 20000000)	Belt, Drive, 6pj, Ej139 [T3]	1
7	1213927	(10000000- 20000000)	Sheave, 06grv, 1.25pd 0.54b, Ss [Keyed]	1
8	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	1
9	1210504	(10000000- 20000000)	Hub, Drive, Magnetic, Flat, 60cm Dd	1
10	1205043	(10000000- 20000000)	Ring, Hub, Magnetic	2
11	630114	(10000000- 20000000)	Screw, Flt, Phl, M4 X 0.70 X 8, 4.8	6
12	019680127	(10000000- 20000000)	Washer, Flat, 6.2mm Id X 22.0mm Od X 1.9	1
12	41517	(10000000- 20000000)	Nut, Hex, Lock, M14 X 2.00, NI	2
14	1011008	(10000000- 20000000)	Spacer, Brg, Idler	3
15	1058514	(10000000- 20000000)	Pulley, Idler, 55d X 21w[60cm Dual Disk]	3
16	1013884	(10000000- 20000000)	Ring, Retaining, Int, 40mm, Ss	3
17	1211624	(10000000- 20000000)	Stud, M8 X 1.25, Dbl End W/Hex, Ss	3
18	1210503	(10000000- 20000000)	Hub, Drive, Magnetic, Grooved, 60cm Dd	1

SCRUB HEAD GROUP, 50CM CYLINDRICAL

355297



SCRUB HEAD GROUP, 50CM CYLINDRICAL

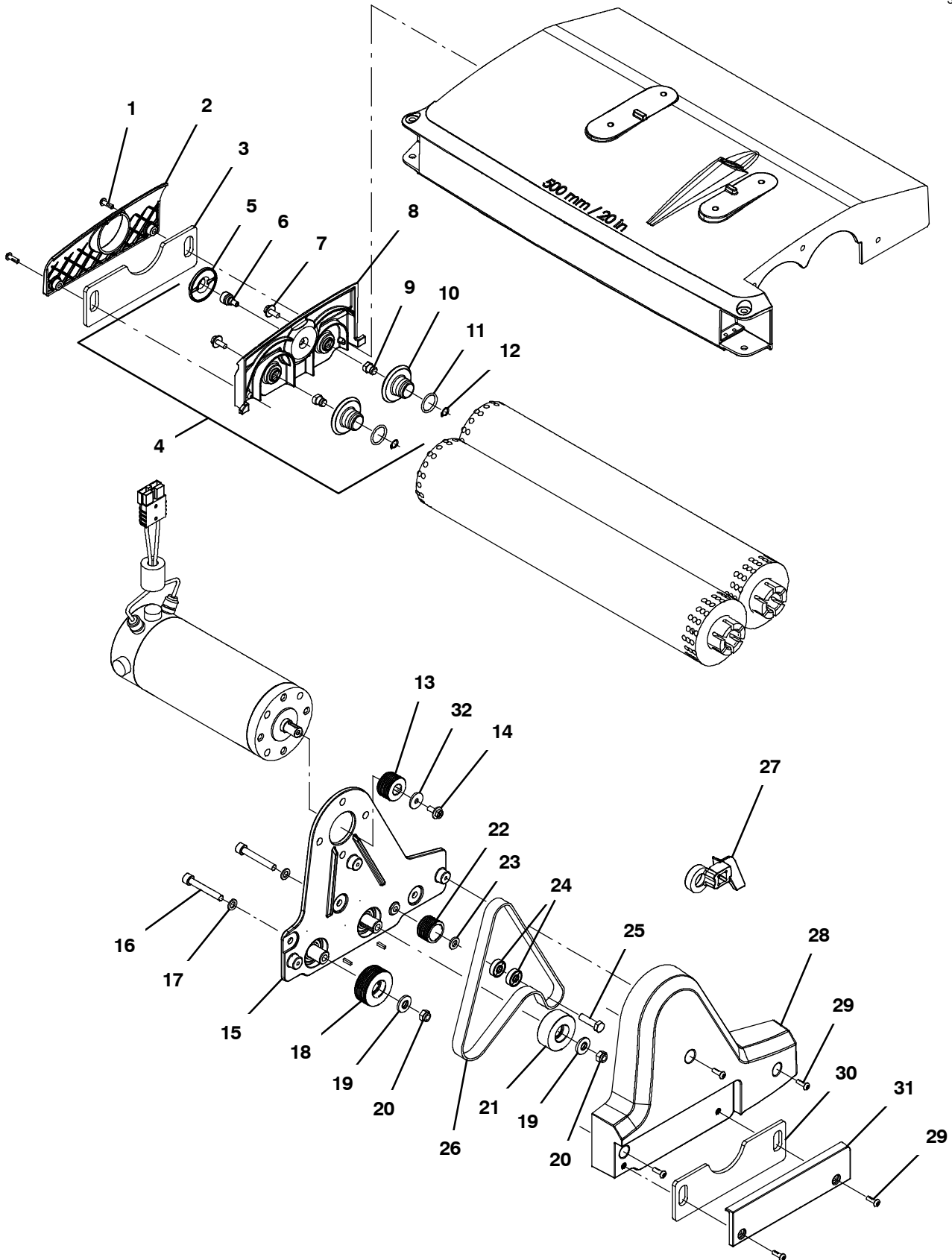
Ref.	Part No.	Serial Number	Description	Qty.	
1	1212265	(10000000-20000000)	Housing, Brush, Dbl 50cm [Machined]	1	
2	630477	(10000000-20000000)	Wheel, Pyu, 02.0d 0.38w, Gray	4	
3	1216647	(10000000-20000000)	Pin, Cotter, Hair, 0.38d .054 Wir	2	
4	391179	(10000000-20000000)	Pin, Clevis, 0.37d X 2.62l	2	
5	1215675	(10000000-20000000)	Skid, Brush Housing	2	
6	1205799	(10000000-20000000)	Screw, Btn, M5 X 0.8 X 16, 8.8, NI, Torx	7	
7	1213708	(10000000-20000000)	Bracket, Tray, Debris	1	
8	1020341	(10000000-20000000)	Screw, Hex, M8 X 1.25 X 20, Ss, Sems	7	
9	1215218	(10000000-20000000)	Fitting, Plstc, Str, Qf06/Qm08	1	
10	1014986	(10000000-20000000)	Hose, Afmkt, Pvc, Clr, 0.25id, 02ft	1	
11	1215186	(10000000-20000000)	Fitting, Plstc, E90, Qf06/Qm06	1	
12	1212573	(10000000-20000000)	Fitting, Plstc, Tee, Qf06/Qf06/Qf06	1	
13	130773	(10000000-20000000)	Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	4	
14	1212934	(10000000-20000000)	Fitting, Plstc, Str, Qf04/Qm06	2	
15	160827	(10000000-20000000)	Hose, Pvc, Clr, 0.12id 0.25od 010.5l	1	
16	1214339	(10000000-20000000)	Fitting, Plstc, E90, Qfo4/Qm04	2	
17	1219486	(10000000-20000000)	Panel Wldt, Brush	1	
18	1034731	(10000000-20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	6	
19	1213706	(10000000-20000000)	Tray, Debris, 500mm [lm]	1	
20	1213707	(10000000-20000000)	Bracket, Tray, Debris	1	
▽	21	1210202	(10000000-20000000)	Motor, Ele, 24vdc [Vw Cyl]	1
▲		1217769	(10000000-20000000)	Key, Sq, 04mm X 04mm, 15mml	1
▲	22	1059370	(10000000-20000000)	Brush, Motor, Replmt [Bag Of 4]	1
▲	23	49548	(10000000-20000000)	Connector, Anderson, 050a, Red	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, 50CM CYLINDRICAL - CONT'D

355298



SCRUB HEAD GROUP, 50CM CYLINDRICAL - CONT'D

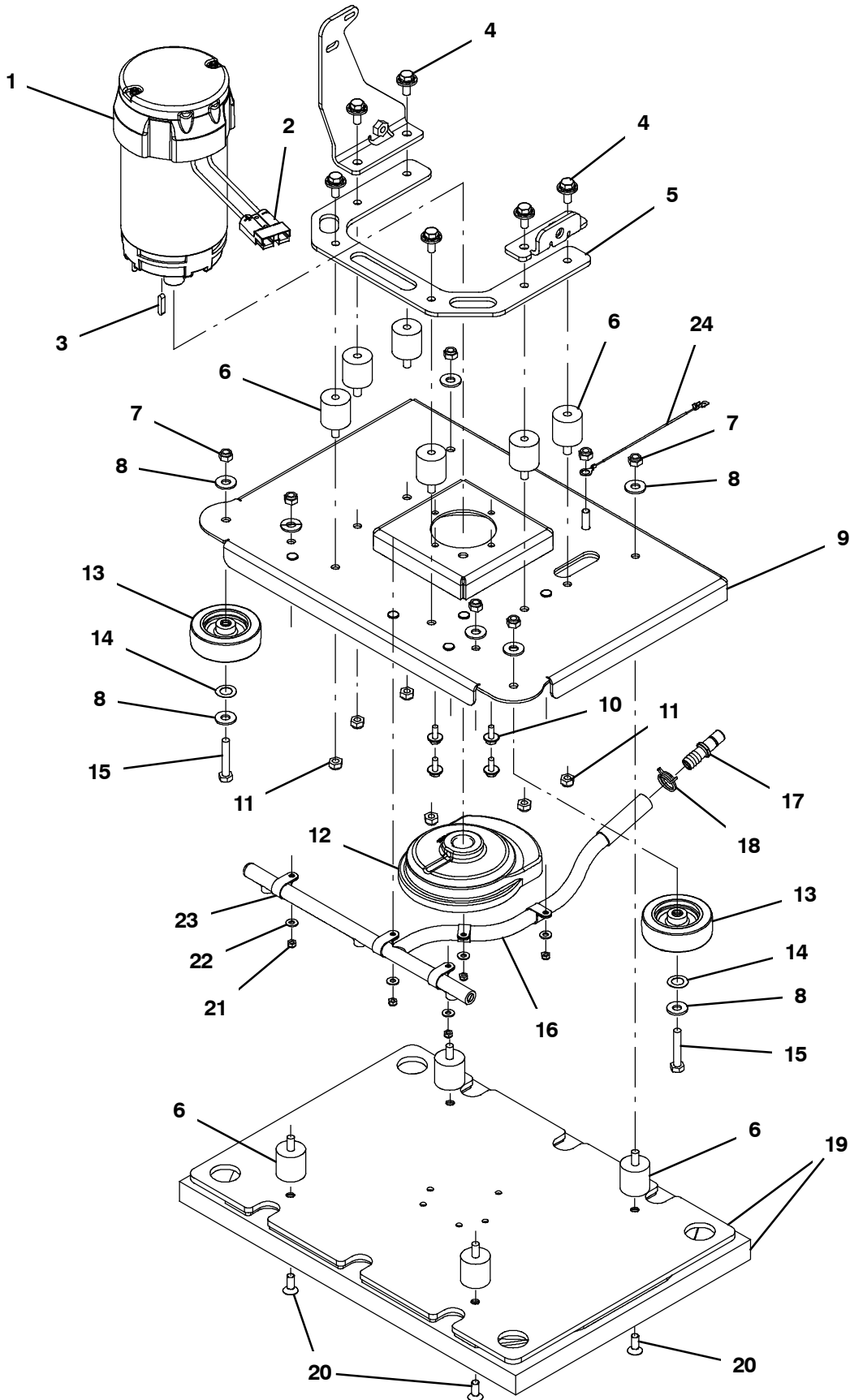
Ref.	Part No.	Serial Number	Description	Qty.
	1	1205799	(10000000-20000000) Screw, Btn, M5 X 0.8 X 16, 8.8, NI, Torx	2
	2	1216689	(10000000-20000000) Cover, Skirt, Cyl Door	1
	3	1215666	(10000000-20000000) Skirt, Side, Cyl, Floating	1
▽	4	9014168	(10000000-20000000) Door Assy, Brush	1
▲	5	1215581	(10000000-20000000) Cap, Screw	1
▲	6	1062149	(10000000-20000000) Knob, Rnd, 0.58d 0.50l, .25-20x.50l Stud	1
▲	7	1034731	(10000000-20000000) Screw, Hex, M6 X 1.00 X 16, Sems, Ss	2
▲	8	1212250	(10000000-20000000) Door, Brush [Machined]	1
▲	9	1030682	(10000000-20000000) Shaft, Idler Plug	2
▲	10	1030680	(10000000-20000000) Hub, Idler, Brush	2
▲	11	1220596	(10000000-20000000) Seal, Org, .139 X .859 Id, 212	2
▲	12	01543	(10000000-20000000) Ring, Retaining, Ext, 0.39d, Basic	2
	13	1210116	(10000000-20000000) Sheave, Motor, 07grv 1.3pd 0.50b [Pj]	1
	14	1034731	(10000000-20000000) Screw, Hex, M6 X 1.00 X 16, Sems, Ss	1
▽	15	9014167	(10000000-20000000) Brkt Assy, Motor, Sgl Mount (Also includes Hubs, Bearings and Seals Not Available Separately)	1
▲	16	1057476	(10000000-20000000) Screw, Soc, M8 X 1.25 X 55, Ss	2
▲	17	1057482	(10000000-20000000) Washer, Flat, 0.33b 0.57d 0.06, Ss	2
▲	18	1210204	(10000000-20000000) Sheave, Drive, Grvd 07grv, 2.0pd 0.67b [	1
▲	19	41186	(10000000-20000000) Washer, Flat, Belleville, .31	2
▲	20	08713	(10000000-20000000) Nut, Hex, Lock, M8 X 1.25, NI, Ss	2
▲	21	1210232	(10000000-20000000) Sheave, Drive, Smooth 2.0pd 0.67b	1
▲	22	1210233	(10000000-20000000) Sheave, Idler, 07grv 1.2pd 0.87b [Pj]	1
▲	23	1216289	(10000000-20000000) Spacer, Pulley, 2cyl, Pm [Vw]	1
▲	24	1027651	(10000000-20000000) Bearing, Ball, 8mmb X 22mmd X 7mmw	2
▲	25	1016399	(10000000-20000000) Screw, Hex, M8 X 1.25 X 30, NI, Ss	1
▲▽	26	9014166	(10000000-20000000) Kit, Belt, Motor (Includes Installation Tool)	1
▲▲	27	1213132	(10000000-20000000) Tool, Installation, Belt	1
	28	1209594	(10000000-20000000) Cover, Belt	1
	29	1205799	(10000000-20000000) Screw, Btn, M5 X 0.8 X 16, 8.8, NI, Torx	5
	30	1215666	(10000000-20000000) Skirt, Side, Cyl, Floating	1
	31	1216728	(10000000-20000000) Cover, Skirt, Cyl Head	1
	32	019680127	(10000000-20000000) Washer, Flat, 6.2mm Id X 22.0mm Od X 1.9	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, 50CM ORBITAL

355293



SCRUB HEAD GROUP, 50CM ORBITAL

Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1212669	(10000000- 20000000) Motor, Ele, 24vdc, 2200rpm, .6hp, 22mm	1
▲		1059370	(10000000- 20000000) Brush, Motor, Replmt [Bag Of 4]	1
▲	2	49548	(10000000- 20000000) Connector, Anderson, 050a, Red	1
▲	3	1014328	(10000000- 20000000) Key, Sq, 05mm X 05mm, 25mml	1
	4	1020341	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	6
	5	1209745	(10000000- 20000000) Plate, Mtg, Head [50cm Orb]	1
	6	1212543	(10000000- 20000000) Isolator, Neoprene, 1.25" X 1.25", M8	10
	7	08713	(10000000- 20000000) Nut, Hex, Lock, M8 X 1.25, NI, Ss	6
	8	01685	(10000000- 20000000) Washer, Flat, 0.38d 0.88d .08, Ss	8
	9	1212527	(10000000- 20000000) Deck Wldt, Scrbr [Volga Wet]	1
	10	1034731	(10000000- 20000000) Screw, Hex, M6 X 1.00 X 16, Sems, Ss	4
	11	08713	(10000000- 20000000) Nut, Hex, Lock, M8 X 1.25, NI, Ss	6
	12	9014175	(10000000- 20000000) Kit, Eccentric Assy, [T300] (See Breakdowns)	1
	13	1014918	(10000000- 20000000) Wheel, 03.0d 0.88w 0.31b, W/ Bshg, Rbr	2
	14	1210221	(10000000- 20000000) Washer, Wave, .515b, .875d, .013, Ss	2
	15	222505	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 45, Ss	2
	16	1212468	(10000000- 20000000) Manifold, Distribution, Water, Orb [Vw]	1
	17	1212807	(10000000- 20000000) Fitting, Plstc, Str, Qm08/Bm08	1
	18	607776	(10000000- 20000000) Clamp, Hose, Wir, .73 - .77, Silver	1
	19	9014189	(10000000- 20000000) Kit, Afmkt, Pad Driver [T300]	1
	20	1218926	(10000000- 20000000) Screw, Flt, Soc, M8 X 1.25 X 14, Ss	4
	21	09739	(10000000- 20000000) Nut, Hex, Lock, M5 X 0.80, NI, Ss	5
	22	01683	(10000000- 20000000) Washer, Flat, 10, Ss	5
	23	140916	(10000000- 20000000) Clamp, Cable, Nyl, 0.62d, Nat	5
	24	1074344	(10000000- 20000000) Harness, Ele [Ring With .250m Tail]	1

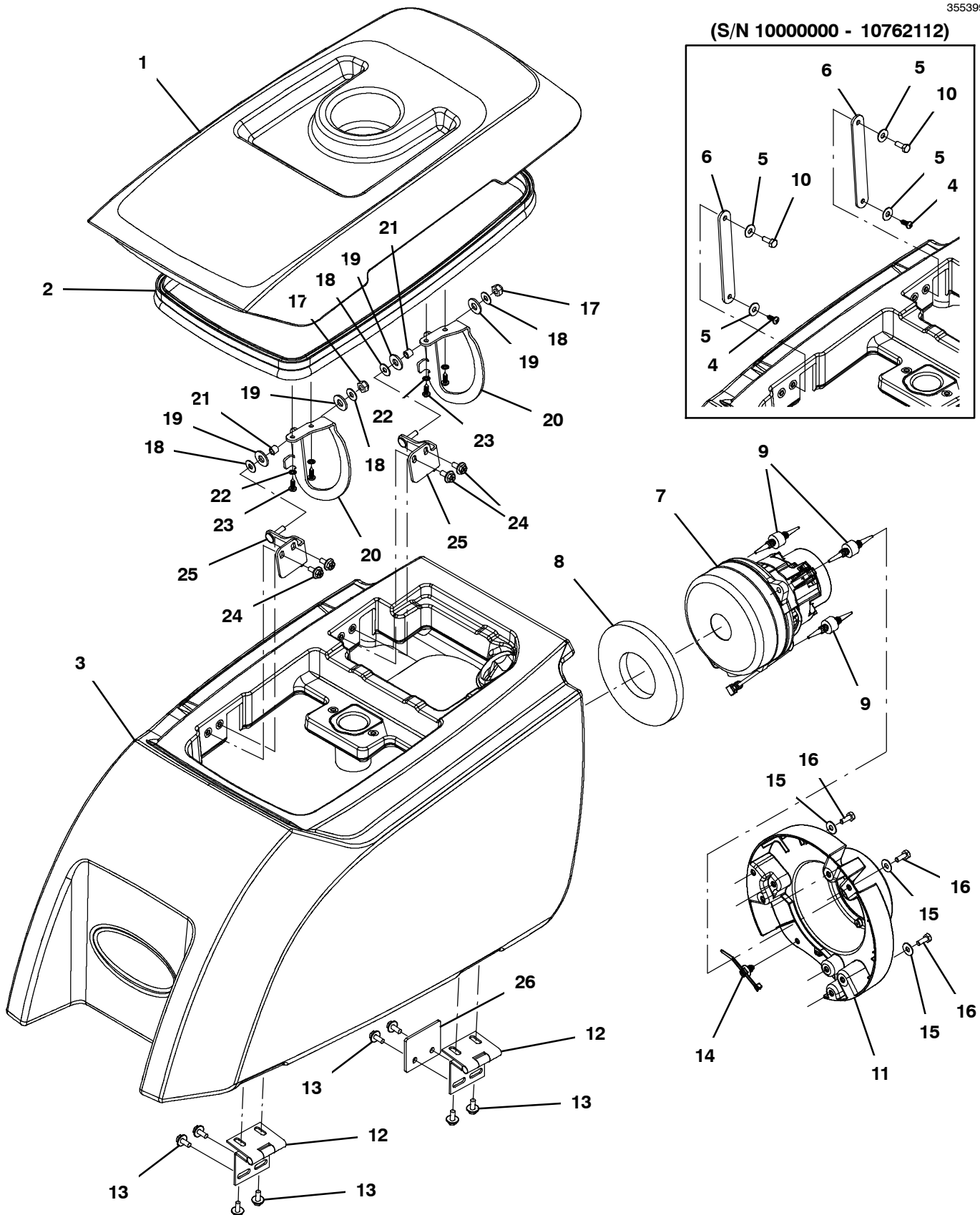
▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

RECOVERY TANK GROUP, BASE MODEL

355399

(S/N 1000000 - 10762112)



RECOVERY TANK GROUP, BASE MODEL

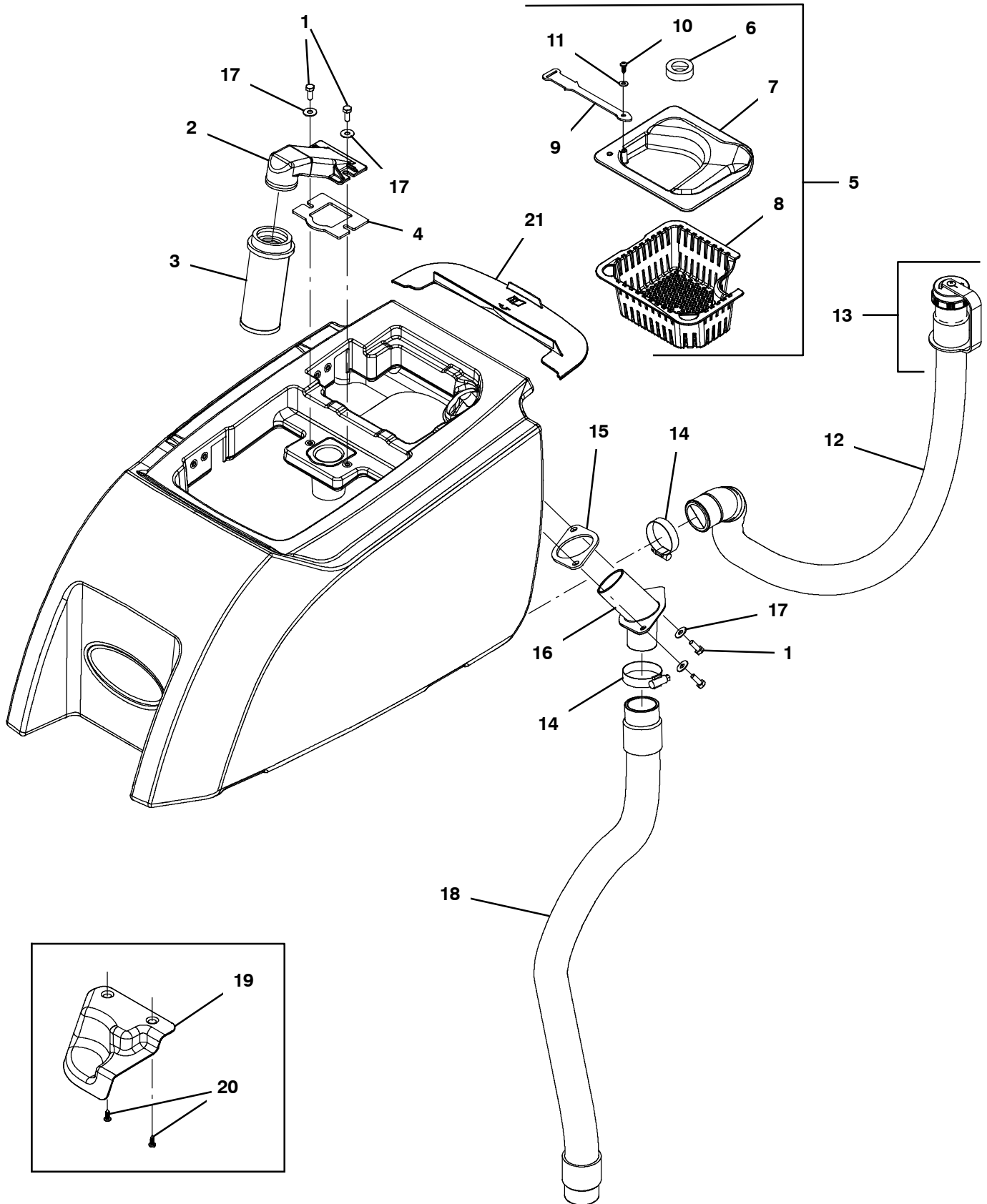
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	9014682	(10000000- 20000000) Kit, Cover, Recvy, Ci [Na]	1
▲	2	1210472	(10000000- 20000000) Seal, Afmkt, Bulb, 0.50d .13grip, 05ft	1
	3	9014152	(10000000- 20000000) Kit, Tank, Recvy, W/Labels [Ss300]	1
	4	1018155	(10000000- 10762112) Screw, Pan, Phl, M5 X 0.80 X 16, Tcut,Ss	2
	5	01684	(10000000- 10762112) Washer, Flat, 0.27b 0.69d .05, Ss	4
	6	1212553	(10000000- 10762112) Strap, Retaining, Cover, 125.0l	2
▽	7	1219312	(10000000- 20000000) Fan, Vacuum, 5.7d, 024vdc, 2 Stage	1
▲		372883	(10000000- 20000000) Vr, Brush Kit, Motor, Ele (1 Pkg = 2 Pcs)	1
	8	100038	(10000000- 20000000) Gasket, .50, 02.63id 05.75od, Adh [Epdm]	1
	9	1062016	(10000000- 20000000) Isolator, Vib, .75d	3
	10	11329	(10000000- 10762112) Screw, Hex, M6 X 1.00 X 16, NI, Ss	2
	11	1207368	(10000000- 20000000) Mount, Vacfan, 5.7/6.6	1
	12	1209466	(10000000- 20000000) Hinge, 6mm Pin 2.5 73.5mmw 60.0mml, Bent	2
	13	1034731	(10000000- 20000000) Screw, Hex, M6 X 1.00 X 16, Sems, Ss	8
	14	1210807	(10000000- 20000000) Wire, Tie [W/.25" Fir Tree Clip]	1
	15	01684	(10000000- 20000000) Washer, Flat, 0.27b 0.69d .05, Ss	3
	16	11329	(10000000- 20000000) Screw, Hex, M6 X 1.00 X 16, NI, Ss	3
▽		9014279	(10762113- 20000000) Hinge, Kit, Lid, Ci, [T300]	1
▲	17	08712	(10762113- 20000000) Nut, Hex, Lock, M6 X 1.00, NI, Ss	2
▲	18	01684	(10762113- 20000000) Washer, Flat, 0.27b 0.69d .05, Ss	4
▲	19	01685	(10762113- 20000000) Washer, Flat, 0.38b 0.88d .08, Ss	4
▲	20	1219440	(10762113- 20000000) Hinge, Goose Neck	2
▲	21	140154	(10762113- 20000000) Sleeve, P/M, 0.25b 0.38d 0.3l, PI	2
▲	22	07514	(10762113- 20000000) Washer, Lock, Int, 10, Ss	4
▲	23	1018155	(10762113- 20000000) Screw, Pan, Phl, M5 X 0.80 X 16, Tcut,Ss	4
▲	24	1034731	(10762113- 20000000) Screw, Hex, M6 X 1.00 X 16, Sems, Ss	4
▲	25	1219473	(10762113- 20000000) Hinge, Mount, Wldt	2
	26	1220553	(10000000- 20000000) Plate, Hinge, Doubler	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

RECOVERY TANK FILTER AND HOSE GROUP, SCREW CAP

355303



RECOVERY TANK FILTER AND HOSE GROUP, SCREW CAP

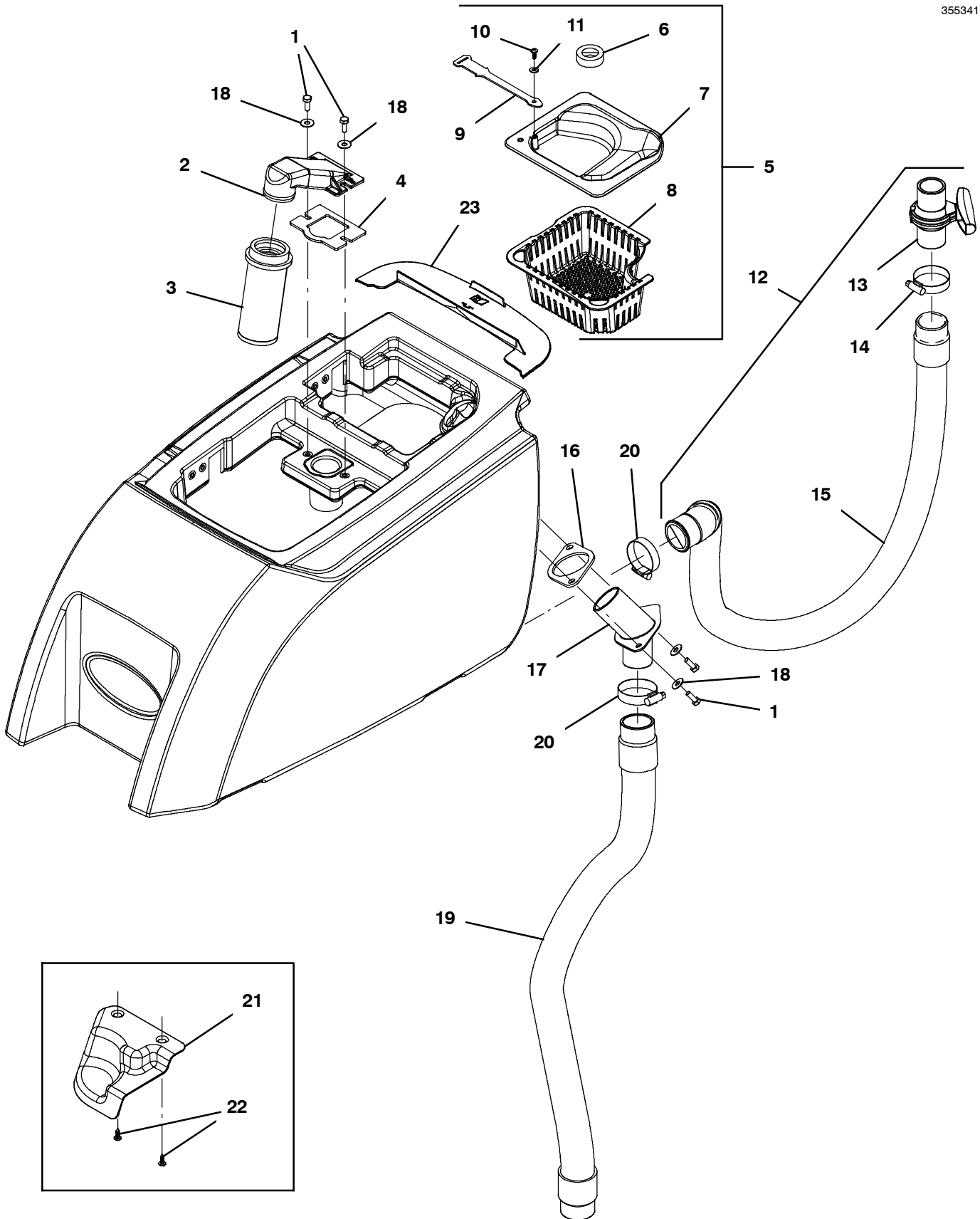
Ref.	Part No.	Serial Number	Description	Qty.	
1	11329	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, NI, Ss	4	
2	1011777	(10000000- 20000000)	Mount, Float, Mold	1	
3	630052	(10000000- 20000000)	Float, Shut- Off, (2)Ball, 1.75d	1	
4	1013628	(10000000- 20000000)	Gasket, Mtg, Float, .125th, Neo, Adh	1	
▽	5	9014872	(10785189- 20000000)	Kit, Deflector, Tray, Debris, Ci, [T300]	1
▲	6	1225187	(10785189- 20000000)	Seal, Rbr, Clsd, 12.7 Th , 24.0ld, 40.0Od	1
▲	7	1224899	(10785189- 20000000)	Deflector, Tray, Debris	1
▲	8	1207357	(10000000- 20000000)	Tray, Debris, Tank, Recvy [T300]	1
▲	9	1225172	(10785189- 20000000)	Strap, Retaining, Deflector, 150.0L	1
▲	10	1018155	(10785189- 20000000)	Screw, Pan, Phl, M5 X 0.80 X 16, Tcut,Ss	1
▲	11	01683	(10785189- 20000000)	Washer, Flat, 10, Ss	1
▽	12	1213008	(10000000- 20000000)	Hose Assy, Drain, 1.5d 025l 1.5/Cap [Pu] (Gray)	1
▲	13	1219134	(10000000- 20000000)	Cap, Drain Assy [Gray]	1
▽	12	1213010	(10000000- 20000000)	Hose Assy, Drain, 1.5d 017l 1.5/Cap[Pvc] (Black)	1
▲	13	1218955	(10000000- 20000000)	Cap, Drain Assy [Black]	1
14	11531	(10000000- 20000000)	Clamp, Hose, Wormdrive, 1.06- 2.00d, .56w	2	
15	1037106	(10000000- 20000000)	Gasket, Adapter, Hose .13, Neo	1	
16	1207196	(10000000- 20000000)	Tube, Hose, Adapter, 1.5d [T300]	1	
17	01684	(10000000- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	4	
18	1204663	(10000000- 20000000)	Hose Assy, W/2cuff,1.5d 031l 1.5/1.5[Pu]	1	
18	1211220	(10000000- 20000000)	Hose Assy,W/2cuff,1.5d 022l 1.5/1.5[Pvc] (Black)	1	
19	1210214	(10000000- 10785188)	Deflector, Water, Recvy (Replaced By 9014872)	1	
20	1018155	(10000000- 10785188)	Screw, Pan, Phl, M5 X 0.80 X 16, Tcut,Ss	2	
21	9014905	(10786729- 20000000)	Cover Kit, Circuitbreaker, Ci[T300/E/Ss]	1	

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

RECOVERY TANK FILTER AND HOSE GROUP, CONTROL VALVE

355341



RECOVERY TANK FILTER AND HOSE GROUP, CONTROL VALVE

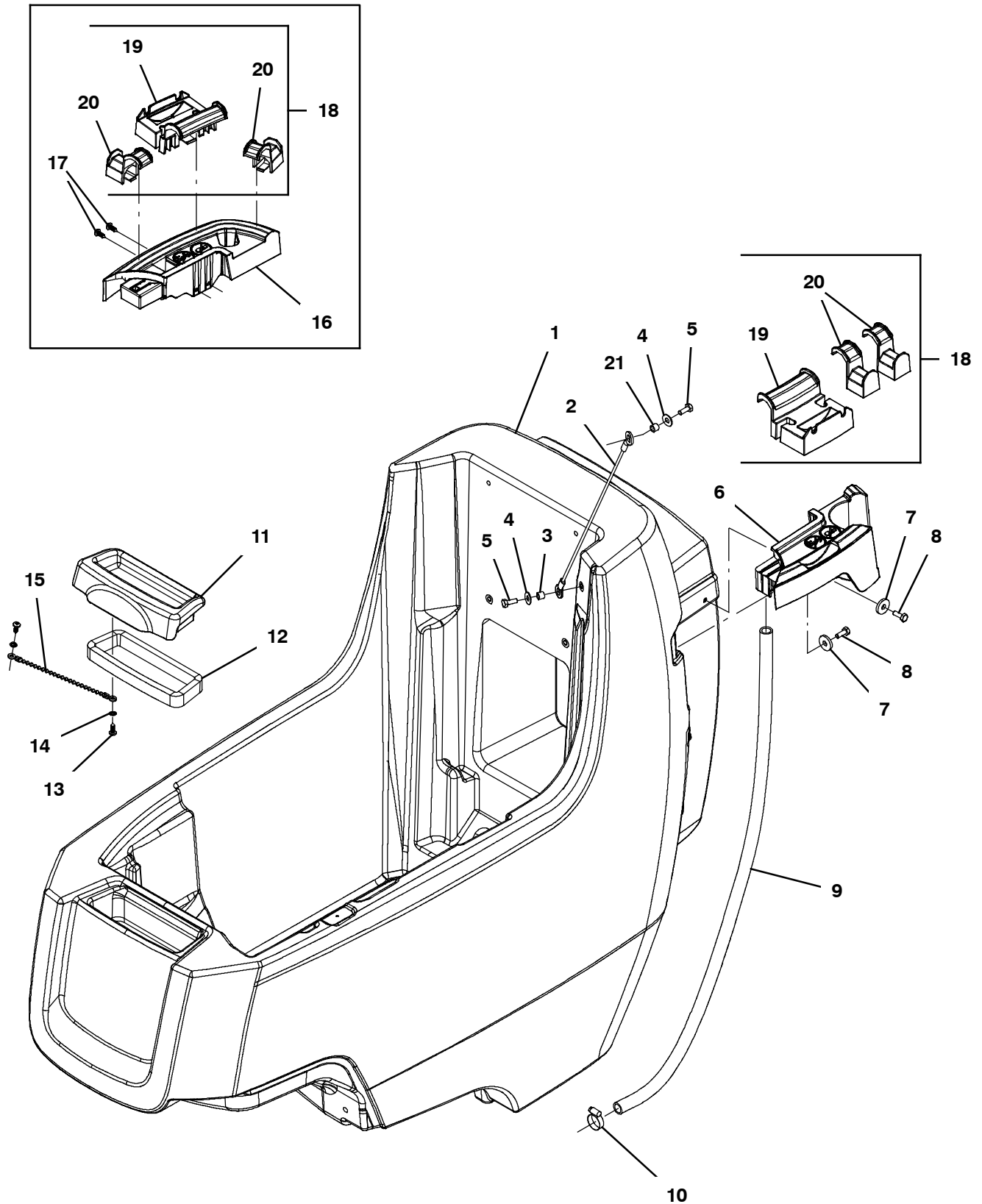
Ref.	Part No.	Serial Number	Description	Qty.	
1	11329	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, NI, Ss	4	
2	1011777	(10000000- 20000000)	Mount, Float, Mold	1	
3	630052	(10000000- 20000000)	Float, Shut- Off, (2)Ball, 1.75d	1	
4	1013628	(10000000- 20000000)	Gasket, Mtg, Float, .125th, Neo, Adh	1	
▽	5	9014872	(10785189- 20000000)	Kit, Deflector, Tray, Debris, Ci, [T300]	1
▲	6	1225187	(10785189- 20000000)	Seal, Rbr, Clsd, 12.7 Th , 24.0Id, 40.0Od	1
▲	7	1224899	(10785189- 20000000)	Deflector, Tray, Debris	1
▲	8	1207357	(10000000- 20000000)	Tray, Debris, Tank, Recvy [T300]	1
▲	9	1225172	(10785189- 20000000)	Strap, Retaining, Deflector, 150.0L	1
▲	10	1018155	(10785189- 20000000)	Screw, Pan, Phl, M5 X 0.80 X 16, Tcut,Ss	1
▲	11	01683	(10785189- 20000000)	Washer, Flat, 10, Ss	1
▽	12	9014171	(10000000- 20000000)	Hose Assy, With Valve	1
▲	13	1051986	(10000000- 20000000)	Valve, Ball, 2way, 1.0Id Pvc, W/Handle	1
▲	14	11531	(10000000- 20000000)	Clamp, Hose, Wormdrive, 1.06- 2.00d, .56w	1
▲	15	1222591	(10000000- 20000000)	Hose Assy, 45cuff,1.5d 021l 1.5/1.5[Pu]	1
	16	1037106	(10000000- 20000000)	Gasket, Adapter, Hose .13, Neo	1
	17	1207196	(10000000- 20000000)	Tube, Hose, Adapter, 1.5d [T300]	1
	18	01684	(10000000- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	4
	19	1204663	(10000000- 20000000)	Hose Assy, W/2cuff,1.5d 031l 1.5/1.5[Pu]	1
	20	11531	(10000000- 20000000)	Clamp, Hose, Wormdrive, 1.06- 2.00d, .56w	2
	21	1210214	(10000000- 10785188)	Deflector, Water, Recvy	1
	22	1018155	(10000000- 10785188)	Screw, Pan, Phl, M5 X 0.80 X 16, Tcut,Ss	2
	23	9014905	(10786729- 20000000)	Cover Kit, Circuitbreaker, Ci[T300/E/Ss]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SOLUTION TANK GROUP

355304



SOLUTION TANK GROUP

Ref.	Part No.	Serial Number	Description	Qty.	
1	9014157	(10000000- 20000000)	Kit, Tank, Soltn, [Ss300]	1	
2	391368	(10000000- 20000000)	Cable, Glv .09d 016.5l .38eye /.38eye	1	
3	140154	(10000000- 20000000)	Sleeve, P/M, 0.25b 0.38d 0.3l, PI	2	
4	01684	(10000000- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	2	
5	11329	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, NI, Ss	2	
6	1214264	(10000000- 20000000)	Tray, Accssry, Lh, 16mm Screw	1	
7	140053	(10000000- 20000000)	Washer, Flat, 0.28b 0.88d .12, Ss	2	
8	11329	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, NI, Ss	2	
9	20778	(10000000- 20000000)	Hose, Pvc, Clr, 0.50id 0.69od 030.0l	1	
10	54333	(10000000- 20000000)	Clamp, Hose, Wormdrive, 0.31- 0.88d, .31w	1	
11	9014158	(10000000- 20000000)	Kit, Cvr, Fill, W/ Ech20, Ci [Na/Jp]	1	
11	9014410	(10000000- 20000000)	Kit, Cvr, Fill, Ci [Na/Jp]	1	
12	1046428	(10000000- 20000000)	Seal, Afmkt, Rbr, Clsd, Adh, 02ft	1	
13	1018155	(10000000- 20000000)	Screw, Pan, Phl, M5 X 0.80 X 16, Tcut,Ss	2	
14	07514	(10000000- 20000000)	Washer, Lock, Int, 10, Ss	2	
15	621443	(10000000- 20000000)	Chain, Ball, 10, 0157mml, Ss	1	
16	1214249	(10000000- 10809548)	Tray, Accssry, Rh, 16mm Screw	1	
17	1018155	(10000000- 10809548)	Screw, Pan, Phl, M5 X 0.80 X 16, Tcut,Ss	2	
▽	18	9013845	(10000000- 20000000)	Clip Kit, Rail, [T300/T300e/Ss300] (Accessory Option)	1
▲	19	1214292	(10000000- 20000000)	Bracket, Hanger, Rail, Lrg (Accessory Option)	1
▲	20	1214291	(10000000- 20000000)	Bracket, Hanger, Rail, Small (Accessory Option)	2
	21	80491	(10000000- 20000000)	Sleeve, P/M, 0.25b 0.38d 0.2l [430ss]	1

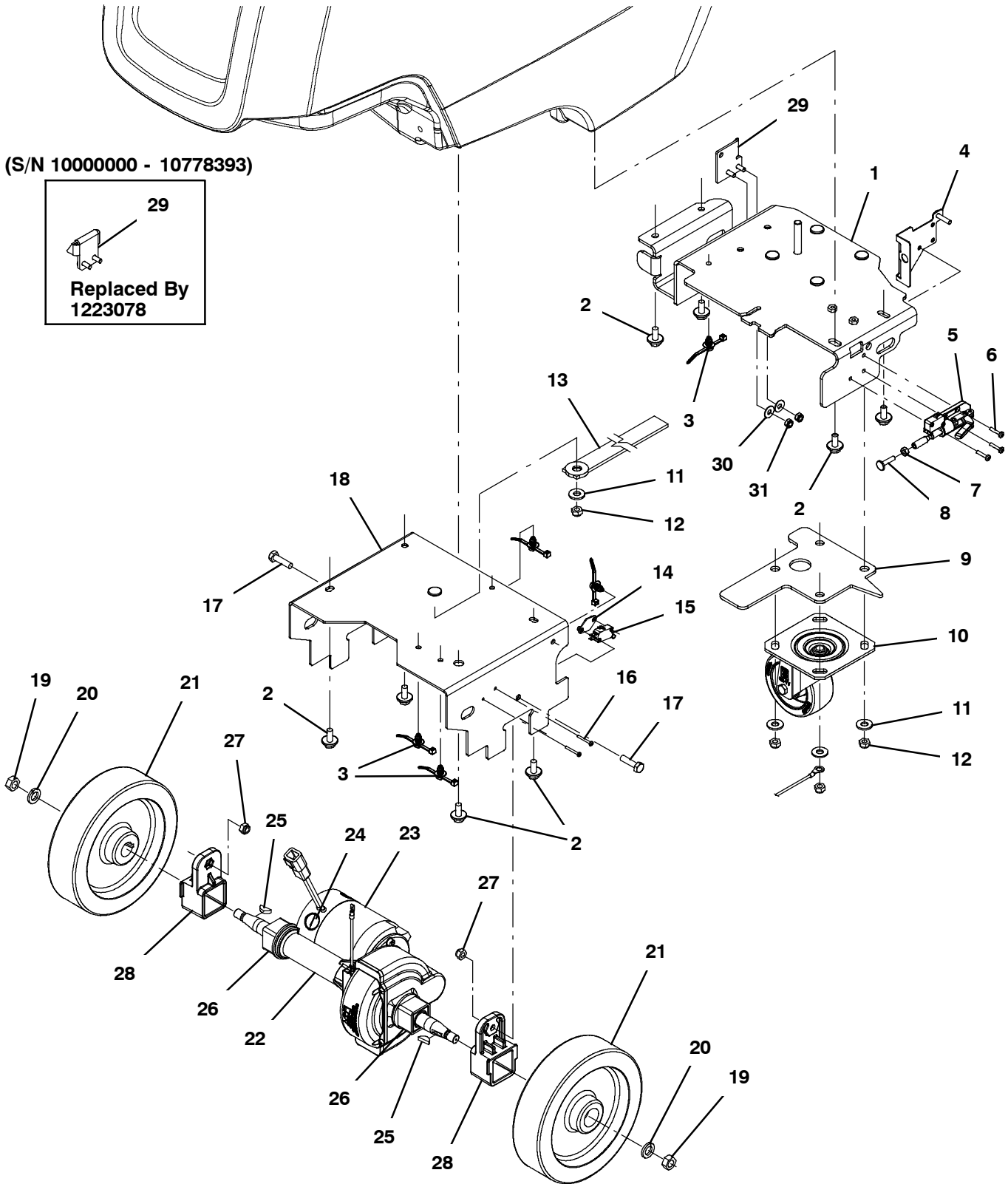
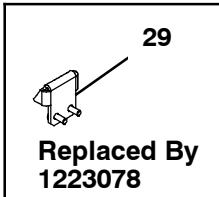
▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

FRAME GROUP, PROPEL MODEL

355318

(S/N 1000000 - 10778393)



FRAME GROUP, PROPEL MODEL

Ref.	Part No.	Serial Number	Description	Qty.	
1	1208498	(10000000- 20000000)	Frame Wldt, Rear	1	
2	1020341	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Ss, Sems	8	
3	1210807	(10000000- 20000000)	Wire, Tie [W/.25" Fir Tree Clip]	5	
4	1211230	(10000000- 20000000)	Plate Wldt, Brake	1	
5	1209983	(10000000- 20000000)	Clamp, Brake, Parking	1	
6	12323	(10000000- 20000000)	Screw, Pan, Phl, M4 X 0.70 X 20, Ss	3	
7	07785	(10000000- 20000000)	Nut, Hex, Std, M6 X 1.00, Ss	1	
8	1017416	(10000000- 20000000)	Screw, Weld, M6 X 1.00 X 25, Thru, Ss	1	
9	1215093	(10000000- 20000000)	Spacer, Caster	1	
10	1212422	(10000000- 20000000)	Caster, Swivel [Wicke 224051]	1	
11	01685	(10000000- 20000000)	Washer, Flat, 0.38b 0.88d .08, Ss	5	
12	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	5	
13	71579	(10000000- 20000000)	Strap, Static, W/Grommet, .19 1.1w 25.0l	1	
14	1013705	(10000000- 20000000)	Plate, Thread, Switch, M3 Nut, 96hr PI	1	
15	1215716	(10000000- 20000000)	Switch, 0.1a, Spdt[Micro, Gold Contacts]	1	
16	33933	(10000000- 20000000)	Screw, Pan, Phl, M3 X 0.50 X 25, Ss	2	
17	09011	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	2	
18	1211968	(10000000- 20000000)	Frame Wldt, Front	1	
19	09741	(10000000- 20000000)	Nut, Hex, Lock, M12 X 1.75, NI, Ss	2	
20	140058	(10000000- 20000000)	Washer, Flat, 0.54b 0.88d .06, Ss [Wand]	2	
21	1214595	(10000000- 20000000)	Wheel, Scrbr, 8.00d, W/ Taper [Hi Trac]	2	
▽	22	1209779	(10000000- 20000000)	Transaxle, Ele, 24vdc, 112rpm [Asi]	1
▲		1017782	(10000000- 20000000)	Coupling Kit, Transaxle, Replmt [11057]	1
▲▽	23	1216386	(10000000- 20000000)	Motor, Transaxle, 24vdc, Replmt [UI, Ce]	1
▲▲	24	1212351	(10000000- 20000000)	Brush Kit, Carbon, Transaxle, UI (1 Kit = 4 Pcs)	1
▲	25	1021167	(10000000- 20000000)	Key, Woodruff, 5mm	2
▲	26	612880	(10000000- 20000000)	Joint, Transaxle, Replmt	2
	27	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	2
	28	1028292	(10000000- 20000000)	Adapter, Mtg, Axle, Alm [T3]	2
	29	1223078	(10778394- 20000000)	Bracket Wldt, Latch	1
	29	1013946	(10000000- 10778393)	Bracket, Locking, Pedal, Foot (Replaced By 1223078)	1
	30	01684	(10000000- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	2
	31	08712	(10000000- 20000000)	Nut, Hex, Lock, M6 X 1.00, NI, Ss	2
	N/S	1073676	(10000000- 20000000)	Harness, Main, Ele [Vw, Base, Propel]	1
	N/S	1073592	(10000000- 20000000)	Harness, Ele [Vw, Op.Sta, Propel]	1

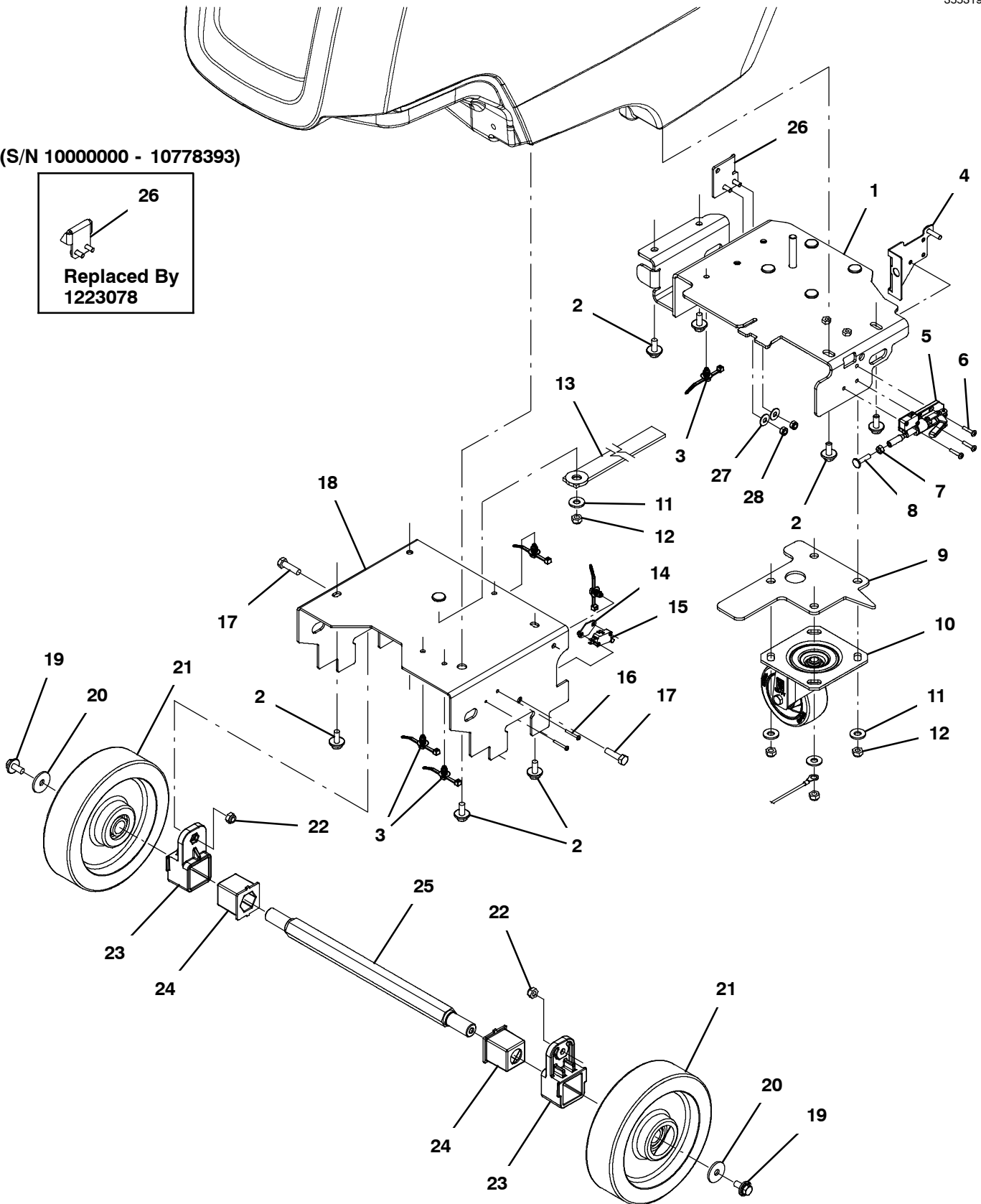
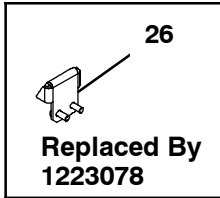
▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

FRAME GROUP, PUSH MODEL

355319

(S/N 1000000 - 10778393)

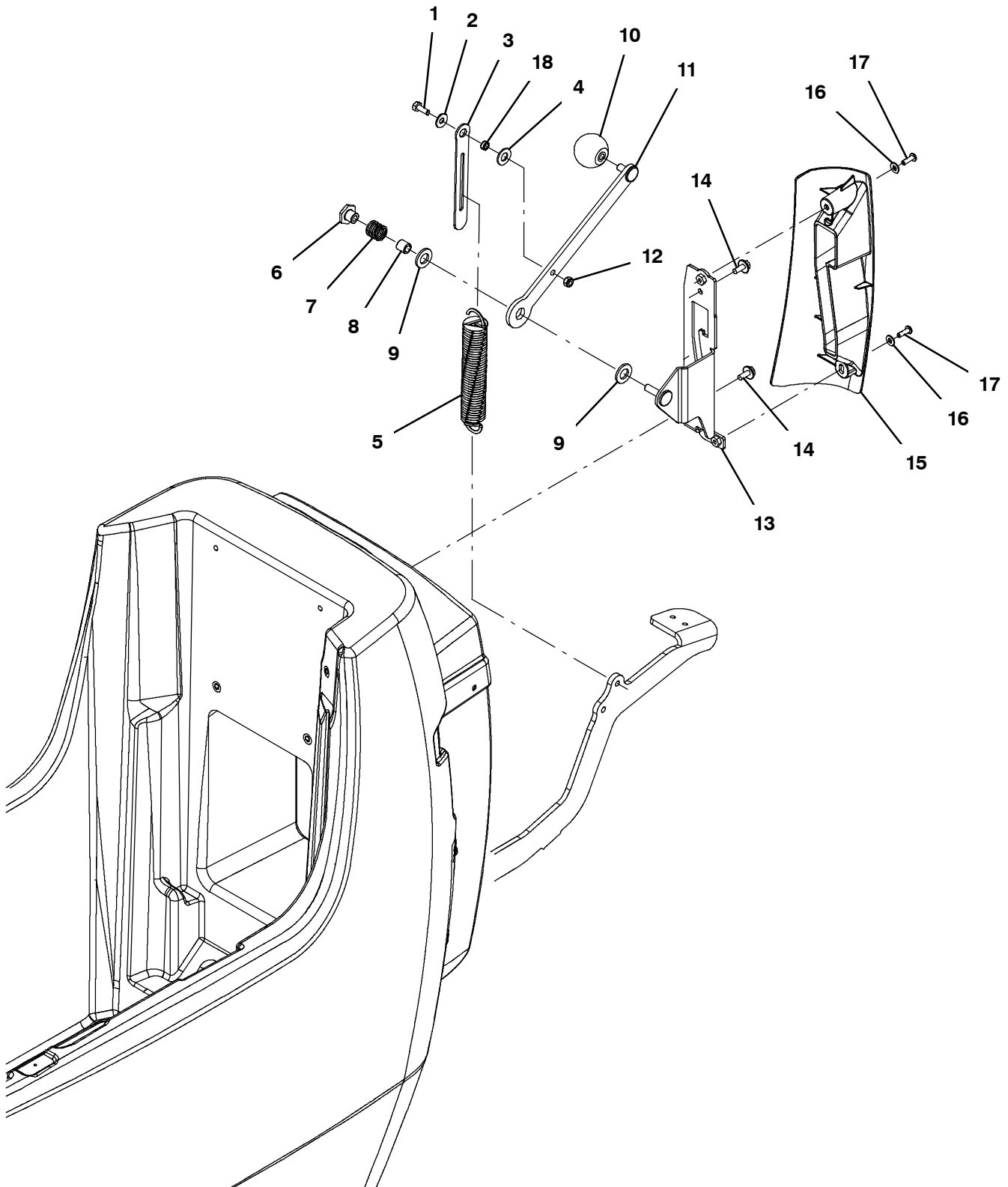


FRAME GROUP, PUSH MODEL

Ref.	Part No.	Serial Number	Description	Qty.
1	1208498	(10000000- 20000000)	Frame Wldt, Rear	1
2	1020341	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Ss, Sems	8
3	1210807	(10000000- 20000000)	Wire, Tie [W/.25" Fir Tree Clip]	5
4	1211230	(10000000- 20000000)	Plate Wldt, Brake (Brake Option)	1
5	1209983	(10000000- 20000000)	Clamp, Brake, Parking (Brake Option)	1
6	12323	(10000000- 20000000)	Screw, Pan, Phl, M4 X 0.70 X 20, Ss (Brake Option)	3
7	07785	(10000000- 20000000)	Nut, Hex, Std, M6 X 1.00, Ss (Brake Option)	1
8	1017416	(10000000- 20000000)	Screw, Weld, M6 X 1.00 X 25, Thru, Ss (Brake Option)	1
9	1215093	(10000000- 20000000)	Spacer, Caster	1
10	1212422	(10000000- 20000000)	Caster, Swivel [Wicke 224051]	1
11	01685	(10000000- 20000000)	Washer, Flat, 0.38b 0.88d .08, Ss	5
12	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	5
13	71579	(10000000- 20000000)	Strap, Static, W/Grommet, .19 1.1w 25.0l	1
14	1013705	(10000000- 20000000)	Plate, Thread, Switch, M3 Nut, 96hr PI	1
15	1215716	(10000000- 20000000)	Switch, 0.1a, Spdt[Micro, Gold Contacts]	1
16	33933	(10000000- 20000000)	Screw, Pan, Phl, M3 X 0.50 X 25, Ss	2
17	09011	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	2
18	1211968	(10000000- 20000000)	Frame Wldt, Front	1
19	1020341	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Ss, Sems	2
20	1016331	(10000000- 20000000)	Washer, Flat, 0.34b 1.25d .11, Ss	2
21	1214586	(10000000- 20000000)	Wheel, Scrbr, 8.00d, W/ Brg [Hi Trac]	2
22	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	2
23	1028292	(10000000- 20000000)	Adapter, Mtg, Axle, Alm [T3]	2
24	1028381	(10000000- 20000000)	Grommet, Axle [Tpu, T3 Push]	2
25	1028382	(10000000- 20000000)	Axle, Wheel, Hex, Clr Zn [T3 Push]	1
26	1223078	(10778394- 20000000)	Bracket Wldt, Latch	1
26	1013946	(10000000- 10778393)	Bracket, Locking, Pedal, Foot (Replaced By 1223078)	1
27	01684	(10000000- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	2
28	08712	(10000000- 20000000)	Nut, Hex, Lock, M6 X 1.00, NI, Ss	2
N/S	1073677	(10000000- 20000000)	Harness, Main, Ele [Vw, Base, Push]	1
N/S	1073593	(10000000- 20000000)	Harness, Ele [Vw, Op.Stat, Push]	1

MANUAL DOWN PRESSURE GROUP

355283

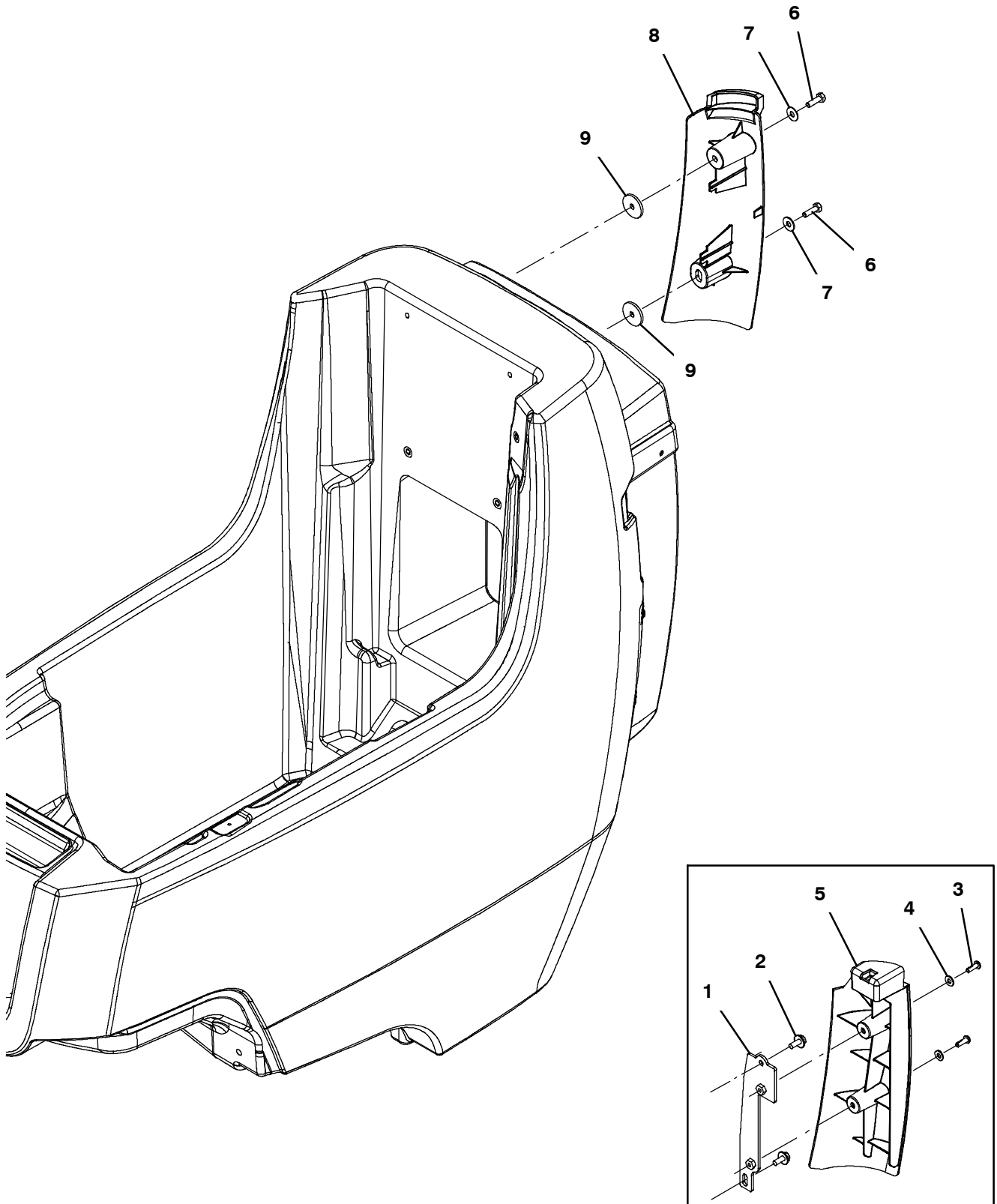


MANUAL DOWN PRESSURE GROUP

Ref.	Part No.	Serial Number	Description	Qty.
1	11329	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, NI, Ss	1
2	01684	(10000000- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	1
3	1213745	(10000000- 20000000)	Plate, Link	1
4	20536	(10000000- 20000000)	Washer, Flat, 0.45b 1.19d .06, Nyl	1
5	1216611	(10000000- 20000000)	Spring, Extn, 1.14od, 0.13wir, 6.5l (Disk & Orbital Models)	1
5	1216677	(10000000- 20000000)	Spring, Extn, 1.08od, 0.09wir, 6.5l (Cylindrical Model)	1
6	1018181	(10000000- 20000000)	Nut, T, M8 X 1.25 X 0.50od X 0.4l	1
7	1018756	(10000000- 20000000)	Spring, Cmpr, 0.70od .08wir 00.7l, Pl,Mw	1
8	222460	(10000000- 20000000)	Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	1
9	1013936	(10000000- 20000000)	Washer, Flat, 0.51b 0.94d .10, Nyl	2
10	1017156	(10000000- 20000000)	Knob, Ball, M8 Insert, 40mmd, Plstc	1
11	1210591	(10000000- 20000000)	Lever Wldt, Down Pressure, Mnl	1
12	08712	(10000000- 20000000)	Nut, Hex, Lock, M6 X 1.00, NI, Ss	1
13	1210597	(10000000- 20000000)	Bracket Wldt, Down Press, Mnl	1
14	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	2
15	1209371	(10000000- 20000000)	Cover, Lever Assy, Down- Press	1
16	01683	(10000000- 20000000)	Washer, Flat, 10, Ss	2
17	1205799	(10000000- 20000000)	Screw, Btn, M5 X 0.8 X 16, 8.8, NI, Torx	2
18	80491	(10000000- 20000000)	Sleeve, P/M, 0.25b 0.38d 0.2l [430ss]	1

SINGLE DOWN PRESSURE GROUP

355284

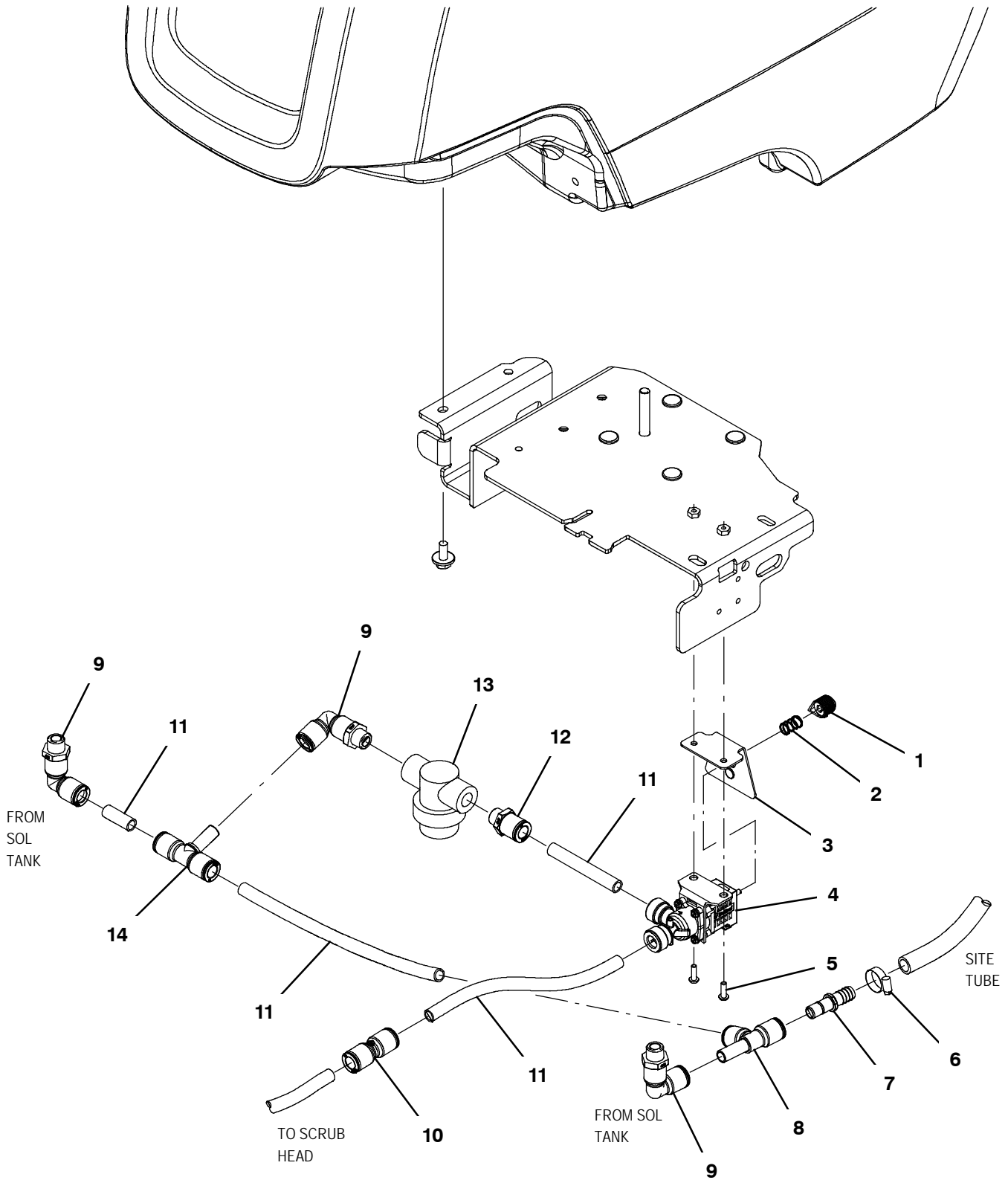


SINGLE DOWN PRESSURE GROUP

Ref.	Part No.	Serial Number	Description	Qty.
1	1214330	(10000000- 10809548)	Bracket Wldt, Mtg, Cover	1
2	1034731	(10000000- 10809548)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	2
3	1205799	(10000000- 10809548)	Screw, Btn, M5 X 0.8 X 16, 8.8, NI, Torx	2
4	01683	(10000000- 10809548)	Washer, Flat, 10, Ss	2
5	1212336	(10000000- 10809548)	Cover, Pulley Assy, Down- Press	1
6	12277	(10809549- 20000000)	Screw, Hex, M6 X 1.00 X 20, NI, Ss	2
7	01684	(10809549- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	2
8	1224289	(10809549- 20000000)	Cover, Tank, Rh, [T300/E/Ss]	1
9	1225843	(10809549- 20000000)	Washer, Flat, M6 X 3 X 30, Retain, Nyl	2

SOLUTION GROUP, BASE MODEL

355307



SOLUTION GROUP, BASE MODEL

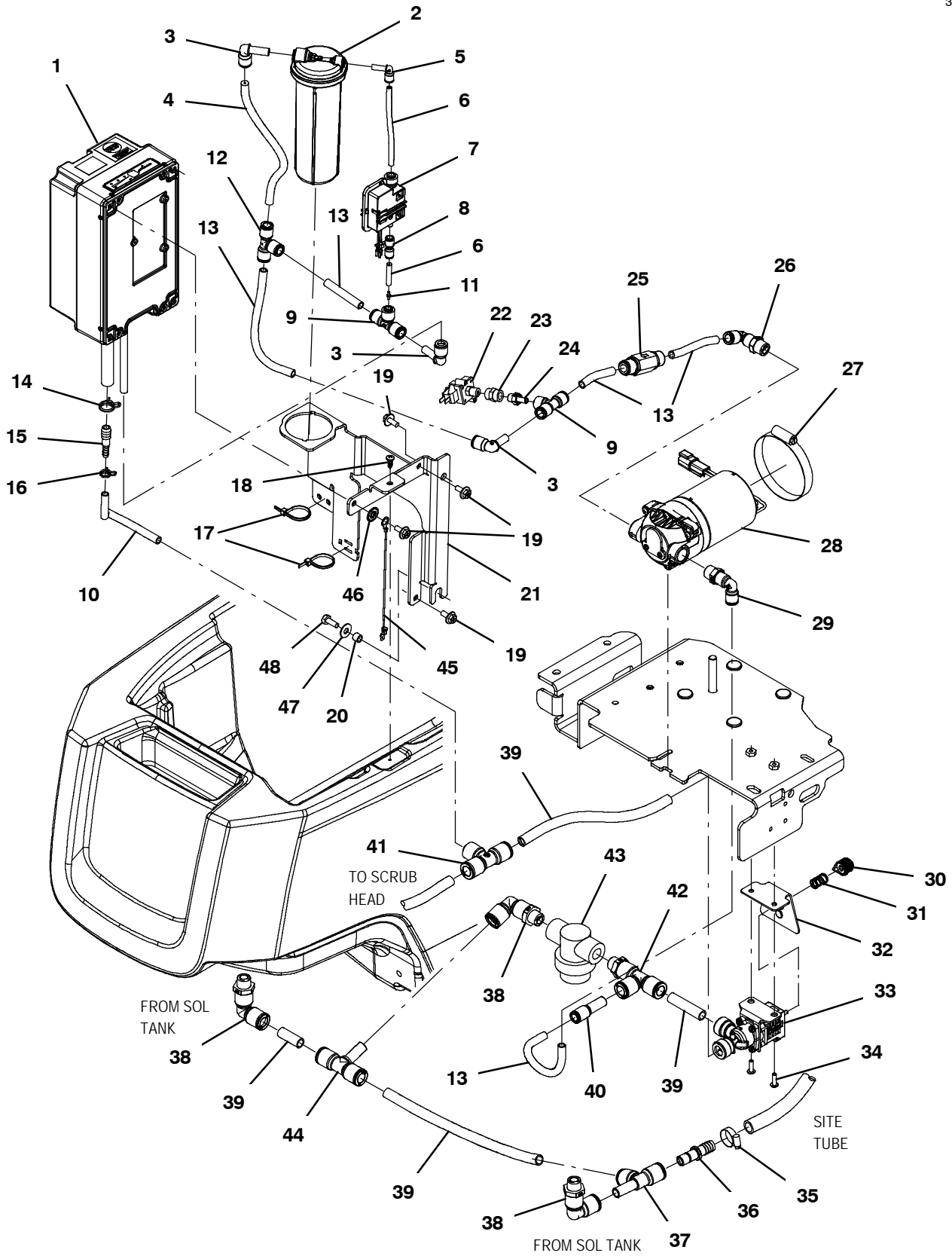
Ref.	Part No.	Serial Number	Description	Qty.	
1	1013442	(10000000- 20000000)	Knob, Valve, 0.70d 0.61l, 0.21b	1	
2	1017091	(10000000- 20000000)	Spring, Cmpr, 0.50od .04wir 00.8l	1	
3	1210041	(10000000- 20000000)	Bracket Wldt, Mtg, Valve, Soltn	1	
4	1211423	(10000000- 20000000)	Valve, Water, Solenoid, 24vdc Qf08/Qf08	1	
5	1205799	(10000000- 20000000)	Screw, Btn, M5 X 0.8 X 16, 8.8, NI, Torx	2	
6	54333	(10000000- 20000000)	Clamp, Hose, Wormdrive, 0.31- 0.88d, .31w	1	
7	1212807	(10000000- 20000000)	Fitting, Plstc, Str, Qm08/Bm08	1	
8	1212806	(10000000- 20000000)	Fitting, Plstc, Tee, Qf08/Qf08/Qm08	1	
9	1212987	(10000000- 20000000)	Fitting, Plstc, E90, Qf08/Pm06, Swivel	3	
10	1212859	(10000000- 20000000)	Fitting, Plstc, Str, Qf08/Qf08	1	
11	9014145	(10000000- 20000000)	Hose, Afmkt, Pe, .375id .50od, 05ft	1	
12	1212813	(10000000- 20000000)	Fitting, Plstc, Str, Qf08/Pm06	1	
▽	13	1211537	(10000000- 20000000)	Filter, In- Line, Pf06/Pf06 080m 2.6l Epd	1
▲		1218885	(10000000- 20000000)	Gasket [Epdm, F/1211537]	1
▲		1218883	(10000000- 20000000)	Screen, Fltr, 80 Mesh, Ss [W/ Cage]	1
▲		613991	(10000000- 20000000)	Bowl, Clr, Short, F/1005302	1
14	1212810	(10000000- 20000000)	Fitting, Plstc, Tee, Qm08/Qf08/Qf08	1	

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SOLUTION GROUP, BASE MODEL ec-H20

355309



SOLUTION GROUP, BASE MODEL ec- H2O

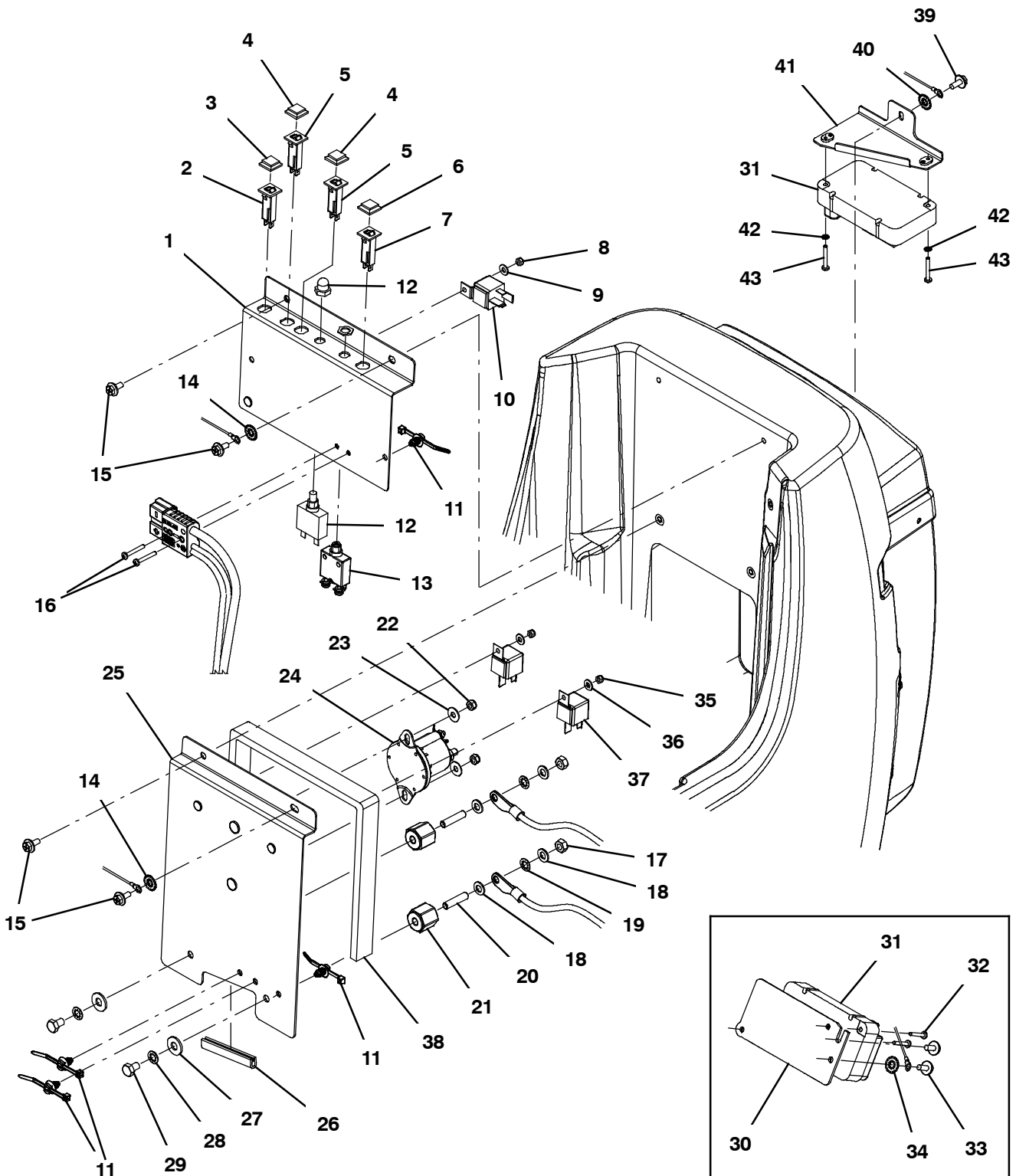
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	9011810	(10000000- 20000000) Module Kit, Replmt [Ec- H2o, B 02] (See Breakdowns)	1
▲	2	9013646	(10000000- 20000000) Cartridge, Ec- H2o Nanoclean Wcm, 270ml	1
	3	1215186	(10000000- 20000000) Fitting, Plstc, E90, Qf06/Qm06	1
	4	9014146	(10000000- 20000000) Hose, Afmkt, Pvc, 0.06id .38od, 05ft	1
	5	1214339	(10000000- 20000000) Fitting, Plstc, E90, Qfo4/Qm04	1
	6	9014147	(10000000- 20000000) Hose, Afmkt, Pvc, 0.06id .25od, 05ft	1
	7	1216973	(10000000- 20000000) Pump Assy, Dispenser	1
	8	1218192	(10000000- 20000000) Fitting, Plstc, Str, Qf04/Qf04	1
	9	1212855	(10000000- 20000000) Fitting, Plstc, Tee, Qf04/Qf06/Qf06	2
	10	1006415	(10000000- 20000000) Hose, Afmkt, Pvc, Clr, 0.25id, 03ft	1
	11	1214972	(10000000- 20000000) Fitting, Orifice, Str, Bm01/Bm01	1
	12	1212573	(10000000- 20000000) Fitting, Plstc, Tee, Qf06/Qf06/Qf06	1
	13	9014148	(10000000- 20000000) Hose, Afmkt, Nat, 0.25id 0.375od, 06ft	1
	14	607775	(10000000- 20000000) Clamp, Hose, Wir, .63 - .66, Blk	1
	15	1039557	(10000000- 20000000) Fitting, Plstc, Str, Bm04/Bm06	1
	16	613735	(10000000- 20000000) Clamp, Hose, Wir, .40 - .42, Yel	1
	17	130773	(10000000- 20000000) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	2
	18	1018155	(10000000- 20000000) Screw, Pan, Phl, M5 X 0.80 X 16, Tcut, Ss	1
	19	1034731	(10000000- 20000000) Screw, Hex, M6 X 1.00 X 16, Sems, Ss	5
	20	140154	(10000000- 20000000) Sleeve, P/M, 0.25b 0.38d 0.3l, Pl	1
	21	1209249	(10000000- 20000000) Bracket, Mtg, Ec- H2O Module [T300]	1
	22	1044335	(10000000- 20000000) Switch, Press, 6psi, Pm02	1
	23	150307	(10000000- 20000000) Fitting, Brs, Str, Pf02/Pf02, Cplg	1
	24	1216185	(10000000- 20000000) Fitting, Plstc, Str, Qm04/Pm02	1
	25	1215527	(10000000- 20000000) Valve, Check, 1.0 Psi Qf06/Qf06	1
	26	1212812	(10000000- 20000000) Fitting, Plstc, E90, Qf06/Pm06, Swivel	1
	27	43555	(10000000- 20000000) Clamp, Hose, Wormdrive, 2.62- 3.50d	1
	28	1210517	(10000000- 20000000) Pump, Soltn, Ele, 24vdc, 35 Psi	1
	29	1212812	(10000000- 20000000) Fitting, Plstc, E90, Qf06/Pm06, Swivel	1
	30	1013442	(10000000- 20000000) Knob, Valve, 0.70d 0.61l, 0.21b	1
	31	1017091	(10000000- 20000000) Spring, Cmpr, 0.50od .04wir 00.8l	1
	32	1210041	(10000000- 20000000) Bracket Wldt, Mtg, Valve, Soltn	1
	33	1211423	(10000000- 20000000) Valve, Water, Solenoid, 24vdc Qf08/Qf08	1
	34	1205799	(10000000- 20000000) Screw, Btn, M5 X 0.8 X 16, 8.8, NI, Torx	2
	35	54333	(10000000- 20000000) Clamp, Hose, Wormdrive, 0.31- 0.88d, .31w	1
	36	1212807	(10000000- 20000000) Fitting, Plstc, Str, Qm08/Bm08	1
	37	1212806	(10000000- 20000000) Fitting, Plstc, Tee, Qf08/Qf08/Qm08	1
	38	1212987	(10000000- 20000000) Fitting, Plstc, E90, Qf08/Pm06, Swivel	3
	39	9014145	(10000000- 20000000) Hose, Afmkt, Pe, .375id .50od, 05ft	1
	40	1215218	(10000000- 20000000) Fitting, Plstc, Str, Qf06/Qm08	1
	41	1212875	(10000000- 20000000) Fitting, Plstc, Tee, Qf06/Qf08/Qf08	1
	42	1212808	(10000000- 20000000) Fitting, Plstc, Tee, Qf08/Qf08/Pm06	1
▽	43	1211537	(10000000- 20000000) Filter, In- Line, Pf06/Pf06 080m 2.6l Epd	1
▲		1218885	(10000000- 20000000) Gasket [Epdm, F/1211537]	1
▲		1218883	(10000000- 20000000) Screen, Fltr, 80 Mesh, Ss [W/ Cage]	1
▲		613991	(10000000- 20000000) Bowl, Clr, Short, F/1005302	1
	44	1212810	(10000000- 20000000) Fitting, Plstc, Tee, Qm08/Qf08/Qf08	1
	45	1074344	(10000000- 20000000) Harness, Ele [Ring With .250m Tail]	1
	46	41140	(10000000- 20000000) Washer, Lock, Int- Ext, 0.25	1
	47	01684	(10000000- 20000000) Washer, Flat, 0.27b 0.69d .05, Ss	1
	48	11329	(10000000- 20000000) Screw, Hex, M6 X 1.00 X 16, NI, Ss	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

ELECTRICAL COMPONENTS GROUP, BASE MODEL

355320

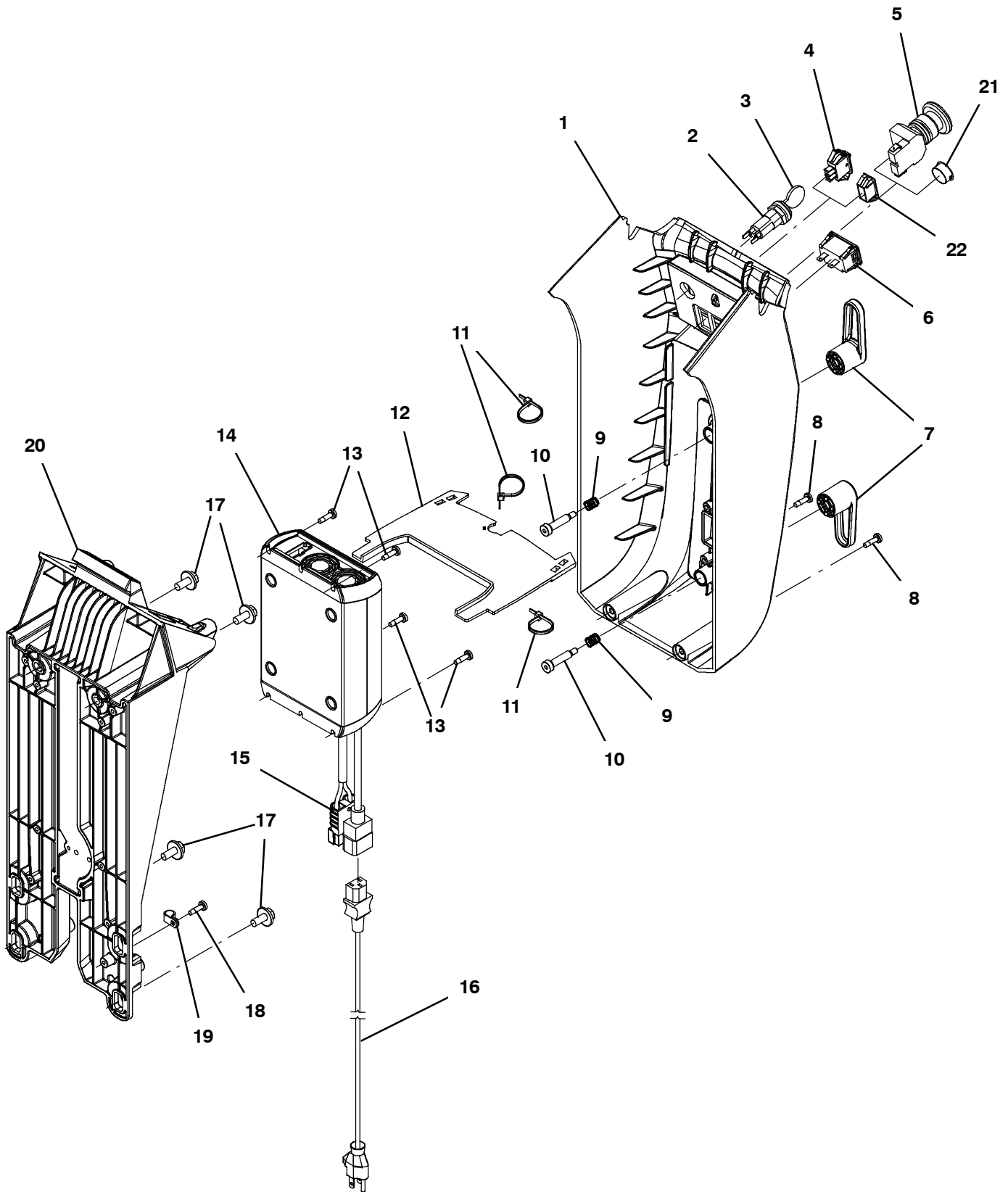


ELECTRICAL COMPONENTS GROUP, BASE MODEL

Ref.	Part No.	Serial Number	Description	Qty.
1	9014188	(10000000- 20000000)	Bracket Wldt, Afmkt, Mtg [Circuitbrkrs]	1
2	1208816	(10000000- 20000000)	Circuitbreaker, 04.0a, Resetable	1
3	1064191	(10000000- 20000000)	Boot, Circuitbreaker	1
4	1064191	(10000000- 20000000)	Boot, Circuitbreaker (ec- H2O Option)	2
5	1208816	(10000000- 20000000)	Circuitbreaker, 04.0a, Resetable (ec- H2O Option)	2
6	1064191	(10000000- 20000000)	Boot, Circuitbreaker	1
7	1064189	(10000000- 20000000)	Circuitbreaker, 20.0a, Resetable	1
8	09739	(10000000- 20000000)	Nut, Hex, Lock, M5 X 0.80, NI, Ss (ec- H2O Option)	1
9	01683	(10000000- 20000000)	Washer, Flat, 10, Ss (ec- H2O Option)	1
10	1012216	(10000000- 20000000)	Relay, 24vdc, 070a, Spst No, Plug- In (ec- H2O Option)	1
11	1210807	(10000000- 20000000)	Wire, Tie [W/.25" Fir Tree Clip]	4
12	383725	(10000000- 20000000)	Circuitbreaker, 30.0a, Resetable (Propel Model)	1
13	1074526	(10000000- 20000000)	Circuitbreaker, 37.0a	1
14	41140	(10000000- 20000000)	Washer, Lock, Int- Ext, 0.25	2
15	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	4
16	33931	(10000000- 20000000)	Screw, Pan, Phl, M4 X 0.70 X 30, Ss	2
17	41361	(10000000- 20000000)	Nut, Hex, Std, M8 X 1.25, Brs	2
18	1209373	(10000000- 20000000)	Washer, Flat, M8.4b X 16d X 1.6, Brs	4
19	43952	(10000000- 20000000)	Washer, Lock, Int, 0.31, Ss	2
20	607461	(10000000- 20000000)	Screw, Set, M8 X 1.25 X 35, NI	2
21	1205345	(10000000- 20000000)	Stand- Off, Wir, M8, Insulator, Panel	2
22	09739	(10000000- 20000000)	Nut, Hex, Lock, M5 X 0.80, NI, Ss	2
23	01684	(10000000- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	2
24	1066409	(10000000- 20000000)	Relay, 24vdc, 150a, No [Trombetta]	1
25	1208619	(10000000- 20000000)	Bracket Wldt, Mtg, Ele	1
26	1020174	(10000000- 20000000)	Molding, Afmkt, Trim, Pvc, .08 .11, 03ft	1
27	01685	(10000000- 20000000)	Washer, Flat, 0.38b 0.88d .08, Ss	2
28	32984	(10000000- 20000000)	Washer, Lock, Int, 0.31	2
29	386868	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 12, Ss	2
30	1210078	(10000000- 10813435)	Bracket Wldt, Drive (Propel Model)	1
31	9014613	(10000000- 20000000)	Controller Kit, Spd, Ci [T300/E/Ss300] (Propel Model)	1
32	04403	(10000000- 10813435)	Screw, Pan, Phl, M4 X 0.70 X 25, NI, Ss (Propel Model)	2
33	1034731	(10000000- 10813435)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss (Propel Model)	2
34	41140	(10000000- 10813435)	Washer, Lock, Int- Ext, 0.25 (Propel Model)	1
35	09739	(10000000- 20000000)	Nut, Hex, Lock, M5 X 0.80, NI, Ss	2
36	01683	(10000000- 20000000)	Washer, Flat, 10, Ss	2
37	1012216	(10000000- 20000000)	Relay, 24vdc, 070a, Spst No, Plug- In	2
38	1208628	(10000000- 20000000)	Gasket, Cover, Circuitboard	1
39	1034731	(10813436- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	1
40	41140	(10813436- 20000000)	Washer, Lock, Int- Ext, 0.25	1
41	1223824	(10813436- 20000000)	Bracket Wldt, Mtg, Cntrl, [T300/T300e]	1
42	02938	(10813436- 20000000)	Washer, Lock, Int, 08, Ss	2
43	33931	(10813436- 20000000)	Screw, Pan, Phl, M4 X 0.70 X 30, Ss	2

LOWER CONSOLE GROUP, ON-BOARD CHARGER

355328



LOWER CONSOLE GROUP, ON-BOARD CHARGER

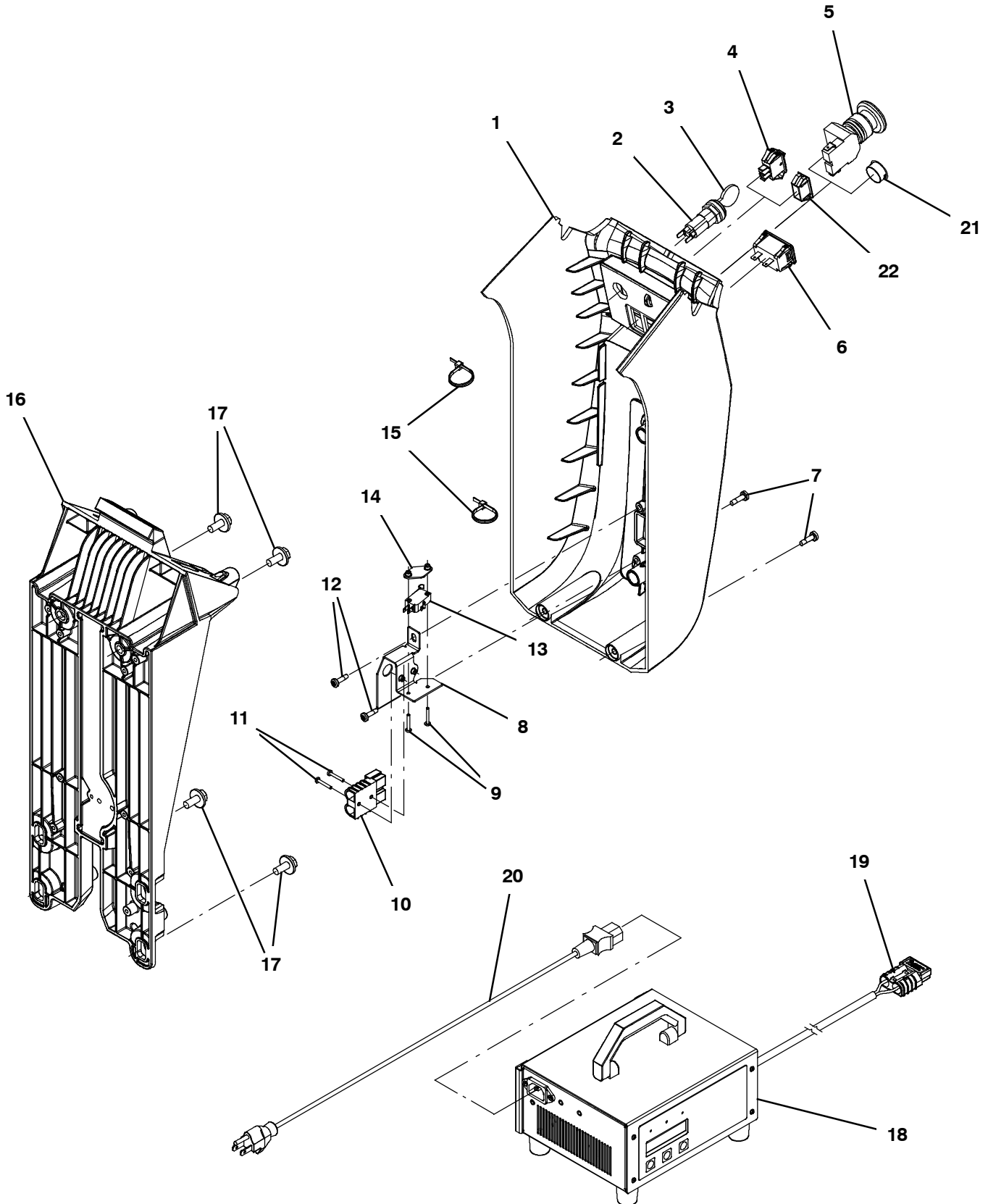
Ref.	Part No.	Serial Number	Description	Qty.
	1	9012789	(10000000- 20000000) Cover, Console, Afmkt, W/ Label [Na]	1
▽	2	1011402	(10000000- 20000000) Switch, Key	1
▲	3	1017696	(10000000- 20000000) Key Set, Replmt [F/ Keyswitch 1011402]	1
	4	1044393	(10000000- 20000000) Switch, Rocker, Spst Mom (ec- H2O Option)	1
	5	1011735	(10000000- 20000000) Switch, Safety, Shutoff (Propel Model)	1
	6	1064038	(10000000- 20000000) Gauge, Hourmeter, 05- 277 Volt, Ac / Dc	1
	7	1205496	(10000000- 20000000) Hook, Cord	2
	8	1043573	(10795905- 20000000) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	2
	8	1205799	(10000000- 10795904) Screw, Btn, M5 X 0.8 X 16, 8.8, NI, Torx	2
	9	611311	(10000000- 20000000) Spring, Cmpr, 0.40od .05wir 00.5l, Pl,Mw	2
	10	1024965	(10000000- 20000000) Bolt, Shld, 08mmd X 030mm, M06 X 1.0	2
	11	130773	(10000000- 20000000) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	3
	12	1211582	(10000000- 20000000) Cover, Chrgr [Small Spe]	1
	13	1043573	(10795905- 20000000) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	4
	13	1205799	(10000000- 10795904) Screw, Btn, M5 X 0.8 X 16, 8.8, NI, Torx	4
▽	14	1202261	(10000000- 20000000) Charger, 24vdc 13a 85- 265vac [On- Board]	1
▲	15	605387	(10000000- 20000000) Connector, Anderson, 050a, Red [W/O Con]	1
	16	1025642	(10000000- 20000000) Cord, Power, 16/3, 15ft Blk [Us]	1
	17	1020341	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	4
	18	1043573	(10795905- 20000000) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	1
	18	1205799	(10000000- 10795904) Screw, Btn, M5 X 0.8 X 16, 8.8, NI, Torx	1
	19	26395- 2	(10000000- 20000000) Clamp, Cable, Stl, 0.38d X 0.38w, 1hole	1
	20	1211903	(10795905- 20000000) Frame, Column, Cntrl [Im]	1
	20	1216531	(10000000- 10795904) Frame, Column, Cntrl [Revised Machined]	1
	21	130161	(10000000- 20000000) Plug, Hole, Rnd, 0.88d, Blk (Push Model)	1
	22	582150	(10000000- 20000000) Plug, Hole, Rt, 1.23 X 1.12, Nyl (Standard Model)	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

LOWER CONSOLE GROUP, OFF-BOARD CHARGER

355329



LOWER CONSOLE GROUP, OFF- BOARD CHARGER

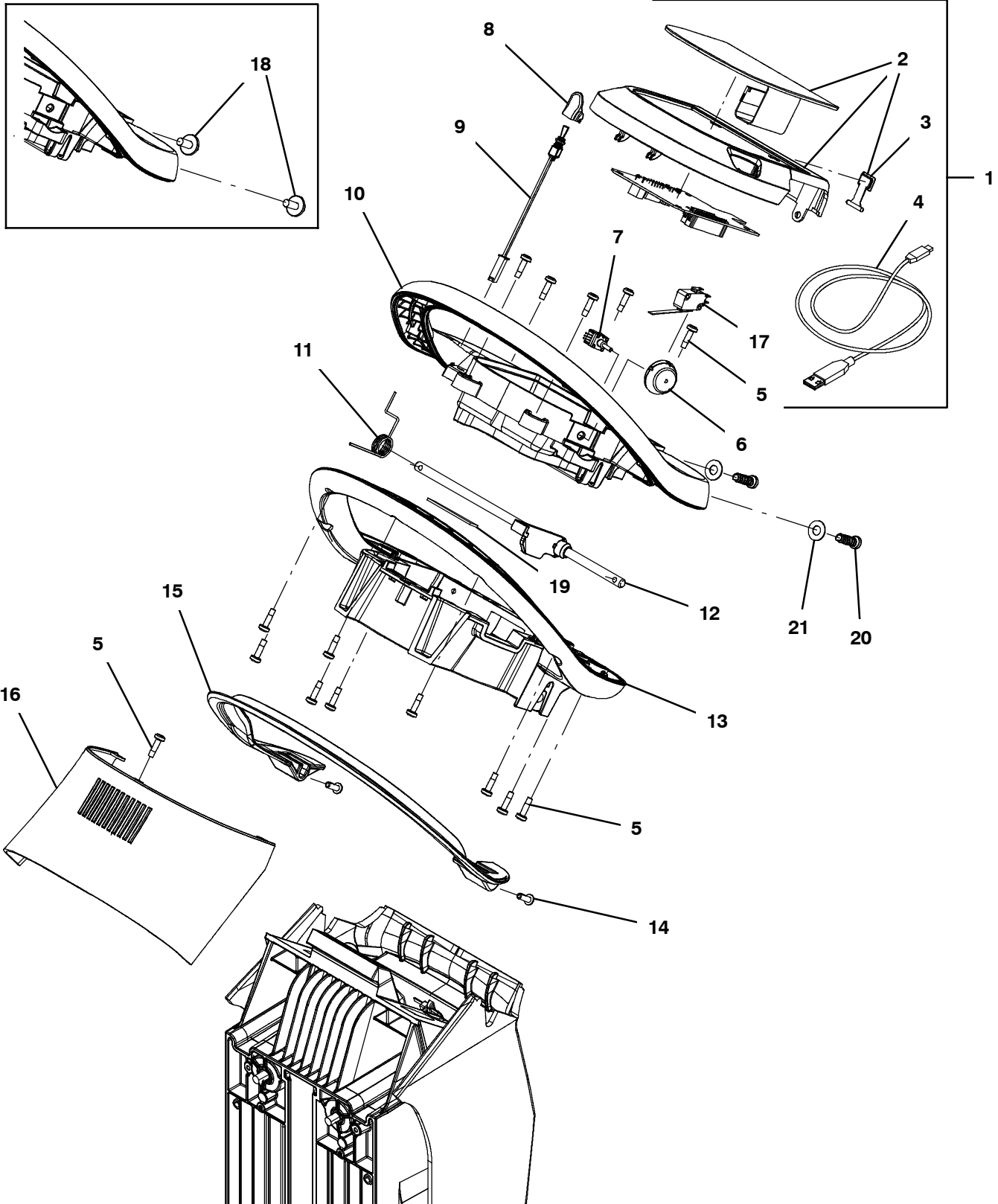
Ref.	Part No.	Serial Number	Description	Qty.
	1	9012789	(10000000- 20000000) Cover, Console, Afmkt, W/ Label [Na]	1
▽	2	1011402	(10000000- 20000000) Switch, Key	1
▲	3	1017696	(10000000- 20000000) Key Set, Replmt [F/ Keyswitch 1011402]	1
	4	1044393	(10000000- 20000000) Switch, Rocker, Spst Mom (ec- H2O Model)	1
	5	1011735	(10000000- 20000000) Switch, Safety, Shutoff (Propel Model)	1
	6	1064038	(10000000- 20000000) Gauge, Hourmeter, 05- 277 Volt, Ac / Dc	1
	7	1043573	(10795905- 20000000) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	2
	7	1205799	(10000000- 10795904) Screw, Btn, M5 X 0.8 X 16, 8.8, NI, Torx	2
	8	1208599	(10000000- 20000000) Bracket Assy, Plug, Charger	1
	9	06922	(10000000- 20000000) Screw, Pan, Phl, M3 X 0.50 X 20, 4.8	2
	10	605387	(10000000- 20000000) Connector, Anderson, 050a, Red [W/O Con]	1
	11	06922	(10000000- 20000000) Screw, Pan, Phl, M3 X 0.50 X 20, 4.8	2
	12	1043573	(10000000- 20000000) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	2
	13	1215716	(10000000- 20000000) Switch, 0.1a, Spdt[Micro, Gold Contacts]	1
	14	1013705	(10000000- 20000000) Plate, Thread, Switch, M3 Nut, 96hr PI	1
	15	130773	(10000000- 20000000) Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	2
	16	1211903	(10795905- 20000000) Frame, Column, Cntrl [Im]	1
	16	1216531	(10000000- 10795904) Frame, Column, Cntrl [Revised Machined]	1
	17	1020341	(10000000- 20000000) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	4
▽	18	1212837	(10000000- 20000000) Charger, 24vdc, 13a 85- 265vac [Offboard]	1
▲	19	605387	(10000000- 20000000) Connector, Anderson, 050a, Red [W/O Con]	1
	20	1025642	(10000000- 20000000) Cord, Power, 16/3, 15ft Blk [Us]	1
	21	130161	(10000000- 20000000) Plug, Hole, Rnd, 0.88d, Blk (Push Model)	1
	22	582150	(10000000- 20000000) Plug, Hole, Rt, 1.23 X 1.12, Nyl (Standard Model)	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

HANDLE GROUP, BASE PROPEL MODEL

355326



HANDLE GROUP, BASE PROPEL MODEL

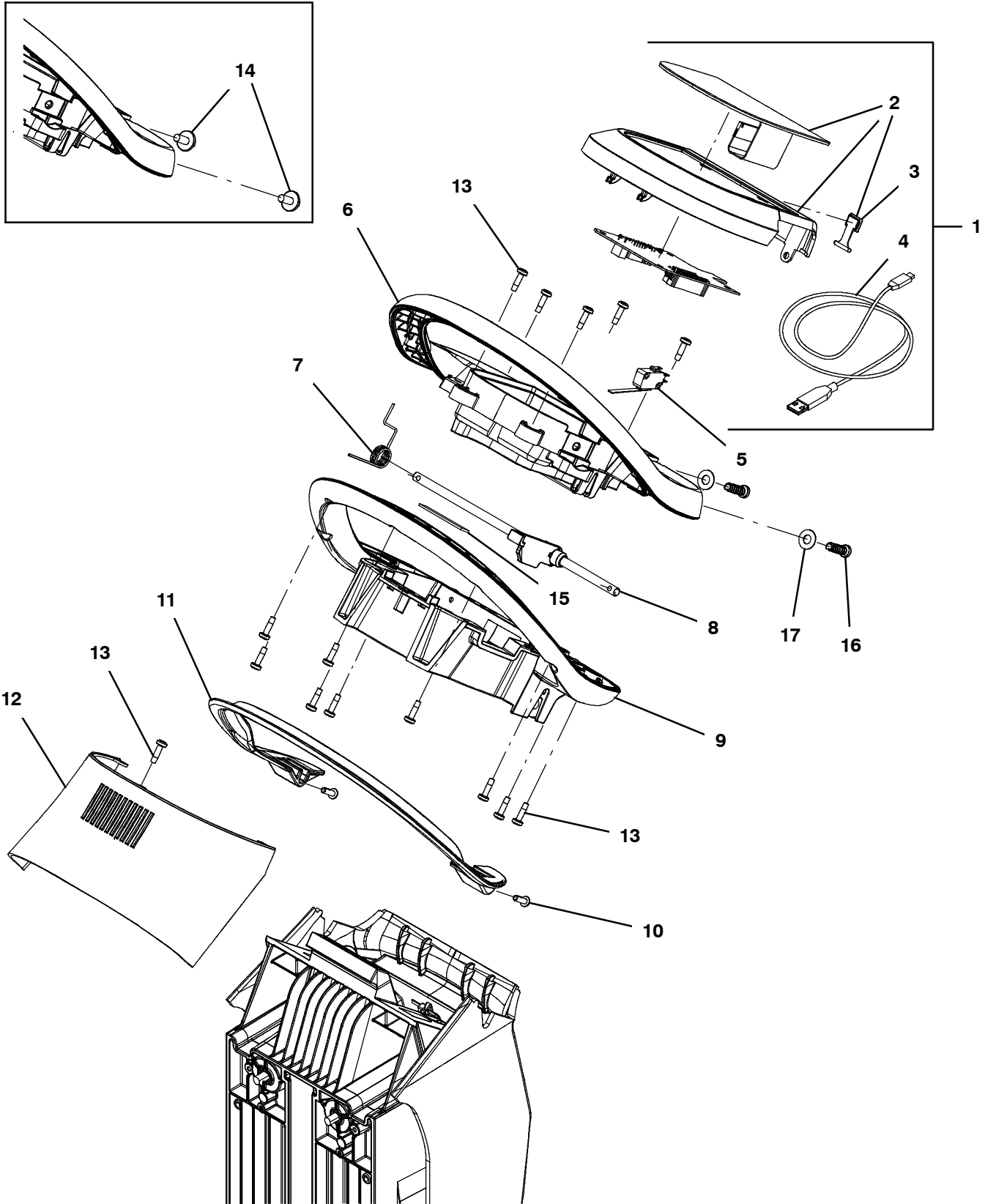
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	9014131	(10000000- 20000000) Bezel Kit, Propel, Membrane, Ci [T300e/S (Kit Includes Circuitboard)	1
▲▽	2	9014137	(10000000- 20000000) Screen Kit, Propel, Memb., Ci [T300e/Ss]	1
▲▲	3	1205618	(10000000- 20000000) Cap, Usb	1
▲	4	1071235	(10000000- 20000000) Cable [Usb, 2m, A- Male To Mini- B- Male]	1
	5	1043573	(10000000- 20000000) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	15
	6	1206586	(10000000- 20000000) Dial, Range, Speed	1
	7	1204930	(10000000- 20000000) Potentiometer [100k, 1 Turn, B5/B7]	1
	8	1209730	(10000000- 20000000) Cap, Toggle, Direction	1
	9	1209673	(10000000- 20000000) Switch Assy, Toggle, Direction	1
	10	1203787	(10000000- 20000000) Housing, Handle, Cntrl, Top	1
	11	1205781	(10000000- 20000000) Spring, Return, Bail	1
	12	1205143	(10000000- 20000000) Shaft Assy, Bail, Handle	1
	13	1222608	(10000000- 20000000) Housing, Handle, Cntrl, Bottom, Slotted	1
	14	1205799	(10000000- 20000000) Screw, Btn, M5 X 0.8 X 16, 8.8, NI, Torx	2
	15	1205778	(10000000- 20000000) Handle, Bail [Machined]	1
	16	1207004	(10000000- 20000000) Cover, Handle, Cntrl	1
	17	1205323	(10000000- 20000000) Switch, 0.1a, Spdt [Micro, Straight]	1
	18	1020341	(10000000- 10795904) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	2
	19	1020280	(10000000- 20000000) Seal, Afmkt, Rbr, Clsd, Adh, 01ft	1
	20	1215863	(10795905- 20000000) Screw, Pan, Torx, M8 X 3.5 X 25[Remform]	2
	21	140027	(10795905- 20000000) Washer, Flat, 0.35b 0.75d .04, Ss	2
	N/S	1072524	(10000000- 20000000) Harness, Ele [Bail Switch]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

HANDLE GROUP, BASE PUSH MODEL

355327



HANDLE GROUP, BASE PUSH MODEL

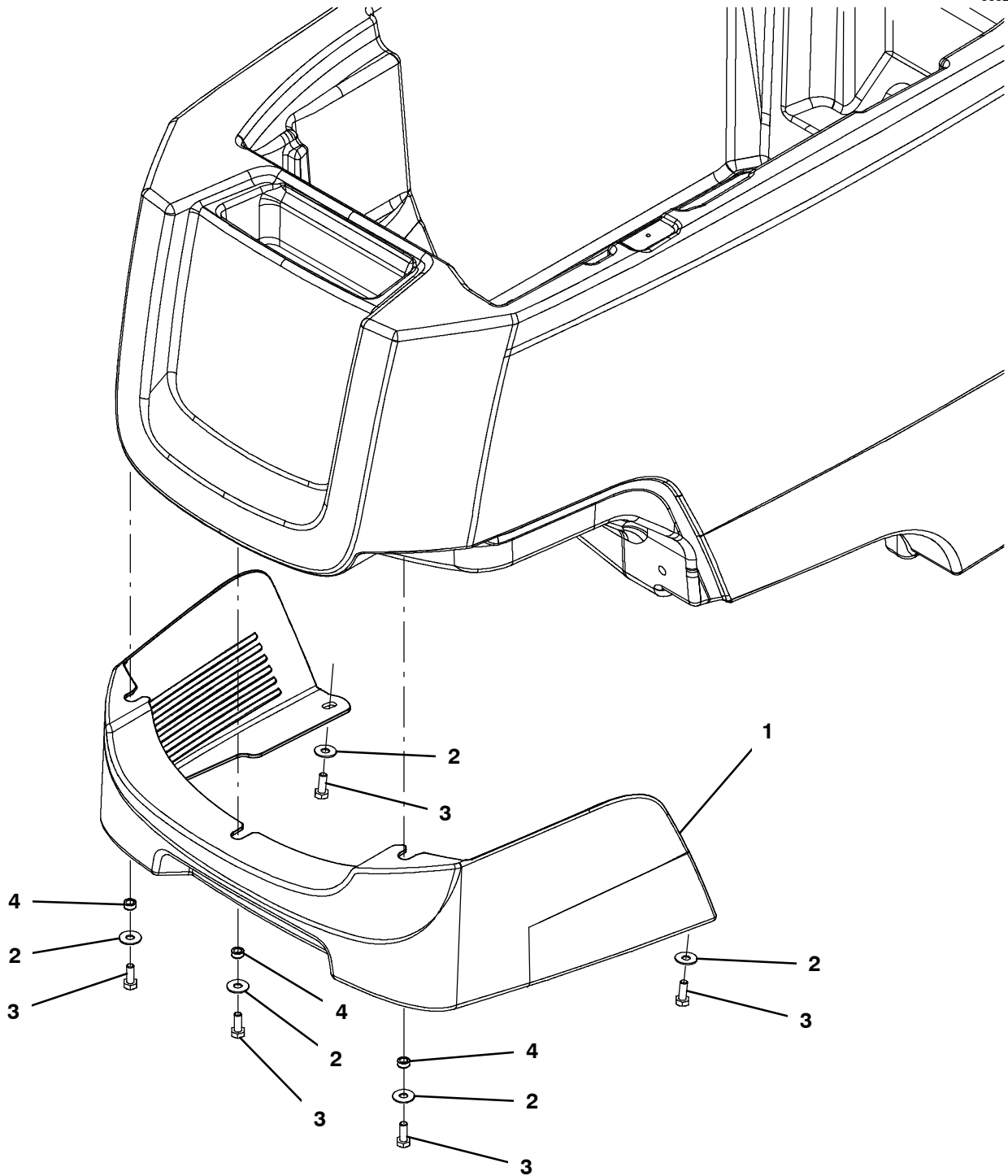
Ref.	Part No.	Serial Number	Description	Qty.
▽	1	9014130	(10000000- 20000000) Bezel Kit, Push, Membrane, Ci [T300e/Ss] (Kit Includes Circuitboard)	1
▲▽	2	9014136	(10000000- 20000000) Screen Kit, Push, Memb., Ci [T300e/Ss]	1
▲▲	3	1205618	(10000000- 20000000) Cap, Usb	1
▲	4	1071235	(10000000- 20000000) Cable [Usb, 2m, A- Male To Mini- B- Male]	1
	5	1205323	(10000000- 20000000) Switch, 0.1a, Spdt [Micro, Straight]	1
	6	1203787	(10000000- 20000000) Housing, Handle, Cntrl, Top	1
	7	1205781	(10000000- 20000000) Spring, Return, Bail	1
	8	1205143	(10000000- 20000000) Shaft Assy, Bail, Handle	1
	9	1222608	(10000000- 20000000) Housing, Handle, Cntrl, Bottom, Slotted	1
	10	1205799	(10000000- 20000000) Screw, Btn, M5 X 0.8 X 16, 8.8, NI, Torx	2
	11	1205778	(10000000- 20000000) Handle, Bail [Machined]	1
	12	1207004	(10000000- 20000000) Cover, Handle, Cntrl	1
	13	1043573	(10000000- 20000000) Screw, #10- 14 X 0.675, Spl[Shcs,Selftap]	15
	14	1020341	(10000000- 10795904) Screw, Hex, M8 X 1.25 X 20, Ss, Sems	2
	15	1020280	(10000000- 20000000) Seal, Afmkt, Rbr, Clsd, Adh, 01ft	1
	16	1215863	(10795905- 20000000) Screw, Pan, Torx, M8 X 3.5 X 25[Remform]	2
	17	140027	(10795905- 20000000) Washer, Flat, 0.35b 0.75d .04, Ss	2
	N/S	1072524	(10000000- 20000000) Harness, Ele [Bail Switch]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SHROUD GROUP, DISK AND ORBITAL HEAD

355299

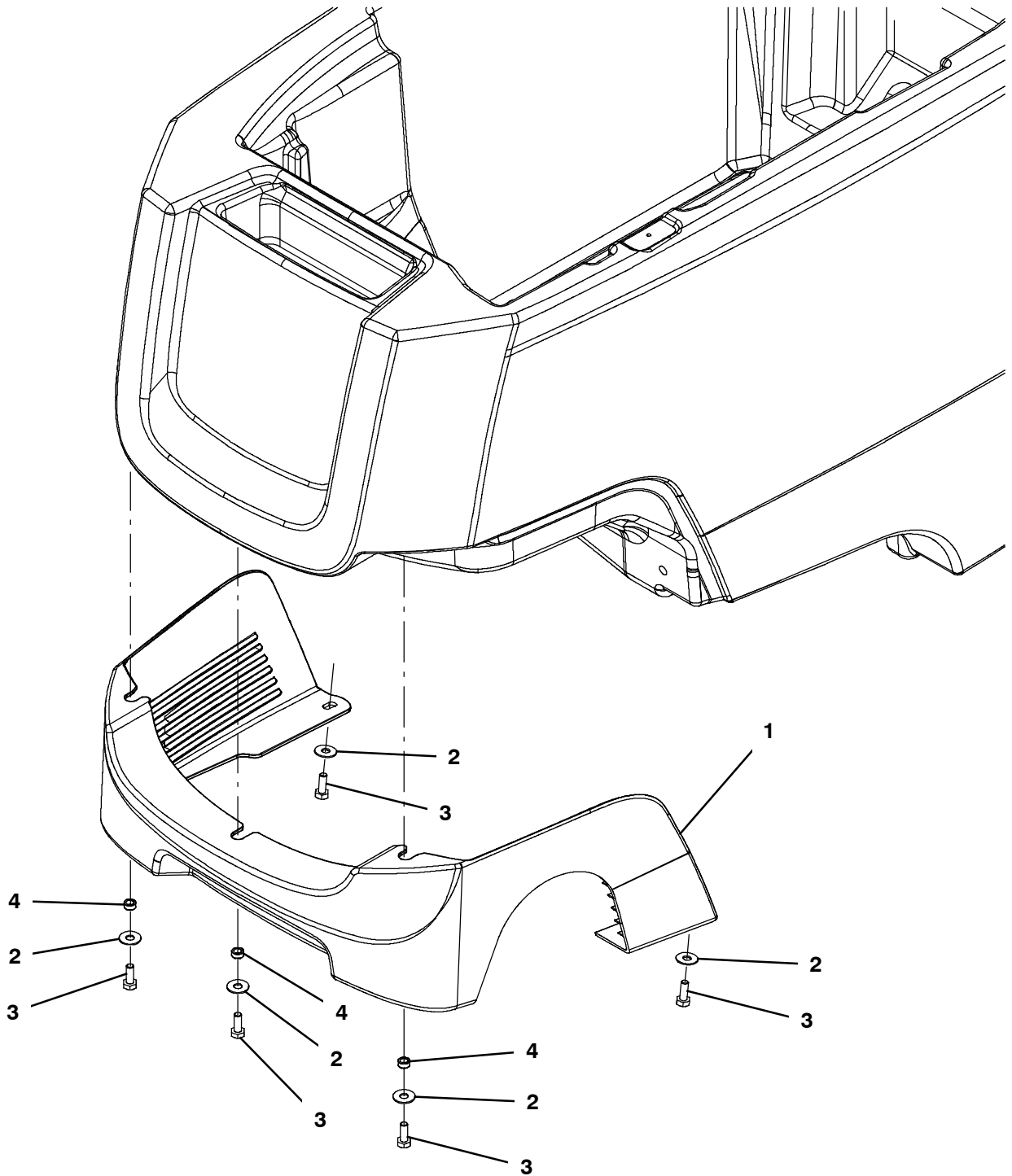


SHROUD GROUP, DISK AND ORBITAL HEAD

Ref.	Part No.	Serial Number	Description	Qty.
1	1210029	(10000000- 20000000)	Cover, Head, Disk, Im- Hg [T300]	1
2	01684	(10000000- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	5
3	11329	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, NI, Ss	5
4	80491	(10000000- 20000000)	Sleeve, P/M, 0.25b 0.38d 0.2l [430ss]	3

SHROUD GROUP, CYLINDRICAL HEAD

355300



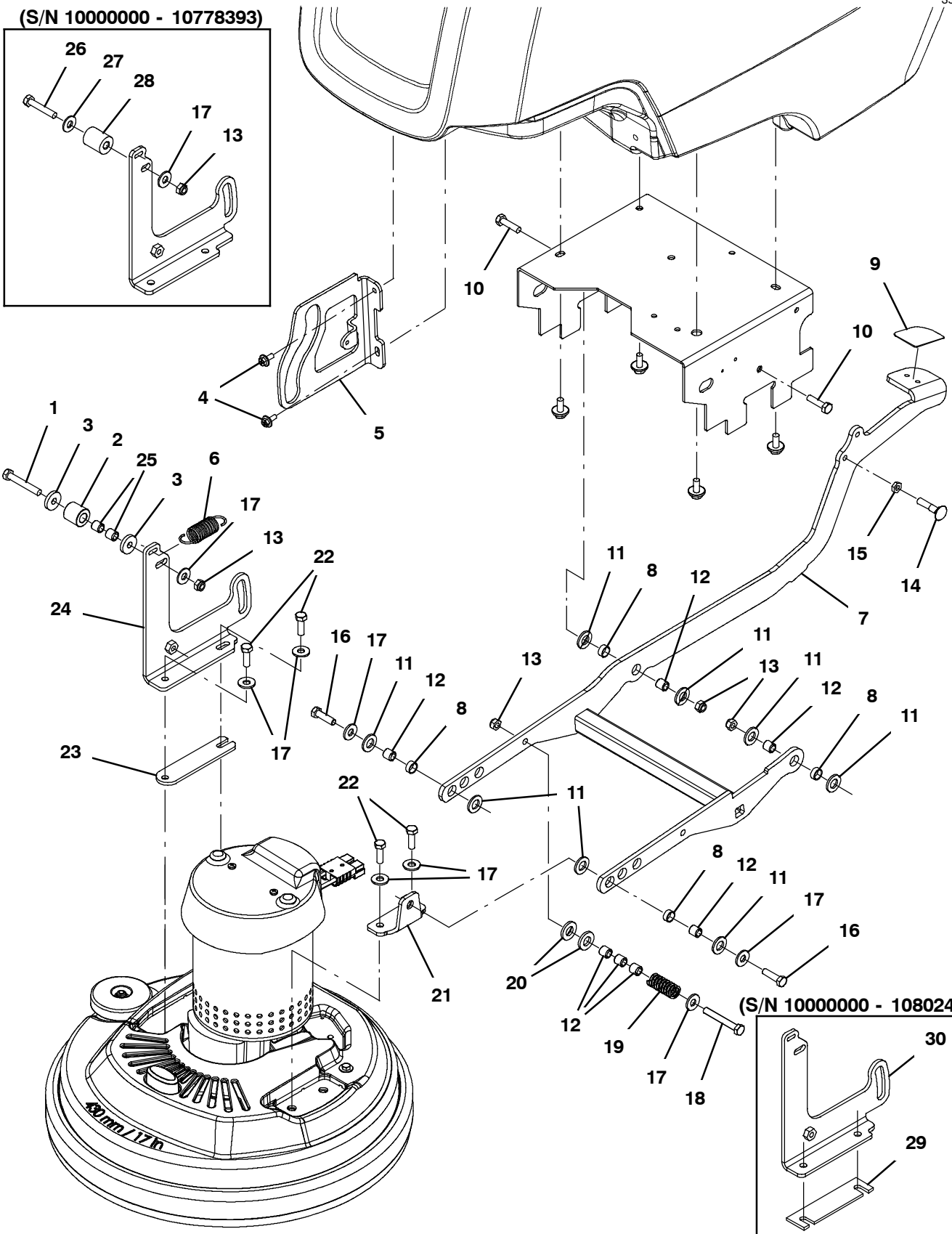
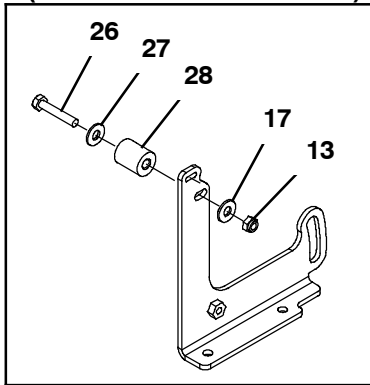
SHROUD GROUP, CYLINDRICAL HEAD

Ref.	Part No.	Serial Number	Description	Qty.
1	1213570	(10000000- 20000000)	Cover, Head, Cylrlcl, Im- Hg [T300]	1
2	01684	(10000000- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	5
3	11329	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, NI, Ss	5
4	80491	(10000000- 20000000)	Sleeve, P/M, 0.25b 0.38d 0.2l [430ss]	3

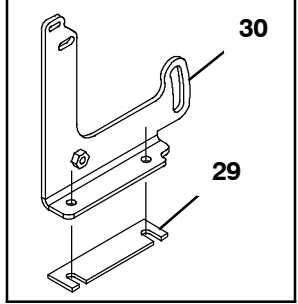
SCRUB HEAD LIFT GROUP, 43CM DISK MODEL

355354

(S/N 1000000 - 10778393)



(S/N 1000000 - 10802497)



SCRUB HEAD LIFT GROUP, 43CM DISK MODEL

Ref.	Part No.	Serial Number	Description	Qty.
1	222504	(10778394- 20000000)	Screw, Hex, M8 X 1.25 X 55, Ss	1
2	1028796	(10778394- 20000000)	Washer, Flat, 0.33b 1.00d .18, Stl, Pl	2
3	1014020	(10778394- 20000000)	Roller, 0.99d 0.50b 0.95l, Acetal	1
4	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	2
5	1213063	(10000000- 20000000)	Bracket, Guide, Head [Vw]	1
6	1032420	(10000000- 20000000)	Spring, Extn, 0.85od 0.09wir 02.9l	1
▽	7	9014170	(10000000- 20000000) Kit, Lift, Head[T300/T300e/Ss300]	1
▲	8	630188	(10000000- 20000000) Bearing, Journal, .50id X .25l	8
9	1218694	(10000000- 20000000)	Pad, Pedal, Lift	1
10	09011	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	2
11	1013936	(10000000- 20000000)	Washer, Flat, 0.51b 0.94d .10, Nyl	8
12	222460	(10000000- 20000000)	Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	7
13	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	4
14	69915	(10000000- 20000000)	Bolt, Carriage, M8 X 1.25 X 40	1
15	200101017	(10000000- 20000000)	Nut, Hex, Jam, M8 X 1.25	1
16	1016399	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, NI, Ss	2
17	01685	(10000000- 20000000)	Washer, Flat, 0.38b 0.88d .08, Ss	8
18	1014163	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 60, Fl, Ss	1
19	140430	(10000000- 20000000)	Spring, Cmpr, 0.70od .10wir 01.7l	1
20	140127	(10000000- 20000000)	Washer, Thrust, 0.51b 1.00d 0.12w, Brz	2
21	1210258	(10000000- 20000000)	Bracket Wldt, Head Mtg, 43d/50d, Short	1
22	12333	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 25, Ss, NI	4
23	1223982	(10802498- 20000000)	Spacer, Head, 4mm (Push Model)	1
24	1223962	(10802498- 20000000)	Bracket Wldt, Mtg, Head, 43d/50d, Tall	1
25	222460	(10778394- 20000000)	Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	2
26	49694	(10000000- 10778393)	Screw, Hex, M8 X 1.25 X 50, Ss	1
27	01685	(10000000- 10778393)	Washer, Flat, 0.38b 0.88d .08, Ss	1
28	1214039	(10000000- 10778393)	Roller, Lift, Head	1
29	1032791	(10000000- 10802497)	Spacer, Head, 4mm [Ss3] (Push Model)	1
30	1210256	(10000000- 10802497)	Bracket Wldt, Mtg, Head, 50d, Tall [Vw] (Replaced By 1223962)	1

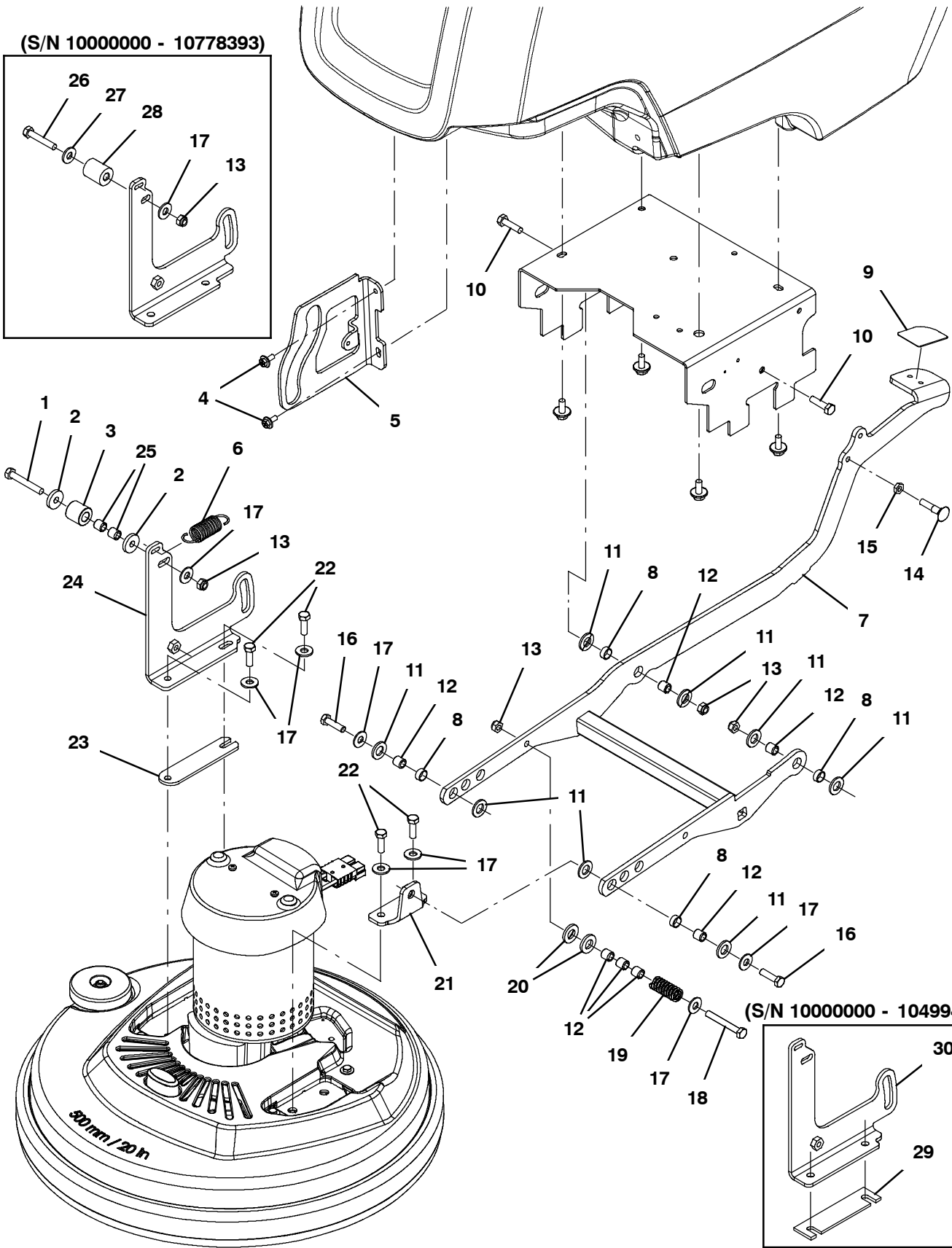
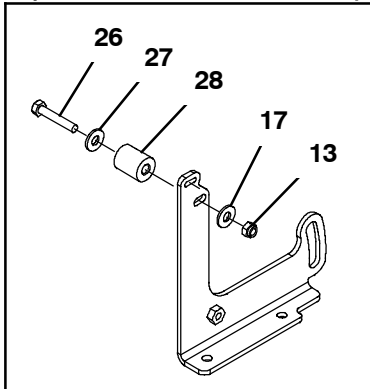
▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

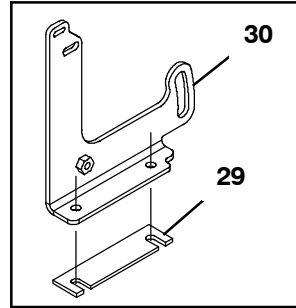
SCRUB HEAD LIFT GROUP, 50CM DISK MODEL

355355

(S/N 10000000 - 10778393)



(S/N 10000000 - 10499416)



SCRUB HEAD LIFT GROUP, 50CM DISK MODEL

Ref.	Part No.	Serial Number	Description	Qty.
1	222504	(10778394- 20000000)	Screw, Hex, M8 X 1.25 X 55, Ss	1
2	1028796	(10778394- 20000000)	Washer, Flat, 0.33b 1.00d .18, Stl, Pl	2
3	1014020	(10778394- 20000000)	Roller, 0.99d 0.50b 0.95l, Acetal	1
4	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	2
5	1213063	(10000000- 20000000)	Bracket, Guide, Head [Vw]	1
6	1032420	(10000000- 20000000)	Spring, Extn, 0.85od 0.09wir 02.9l	1
▽	7	9014170	(10000000- 20000000) Kit, Lift, Head[T300/T300e/Ss300]	1
▲	8	630188	(10000000- 20000000) Bearing, Journal, .50id X .25l	8
9	1218694	(10000000- 20000000)	Pad, Pedal, Lift	1
10	09011	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	2
11	1013936	(10000000- 20000000)	Washer, Flat, 0.51b 0.94d .10, Nyl	8
12	222460	(10000000- 20000000)	Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	7
13	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	4
14	69915	(10000000- 20000000)	Bolt, Carriage, M8 X 1.25 X 40	1
15	200101017	(10000000- 20000000)	Nut, Hex, Jam, M8 X 1.25	1
16	1016399	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, NI, Ss	2
17	01685	(10000000- 20000000)	Washer, Flat, 0.38b 0.88d .08, Ss	8
18	1014163	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 60, Fl, Ss	1
19	140430	(10000000- 20000000)	Spring, Cmpr, 0.70od .10wir 01.7l	1
20	140127	(10000000- 20000000)	Washer, Thrust, 0.51b 1.00d 0.12w, Brz	2
21	1210258	(10000000- 20000000)	Bracket Wldt, Head Mtg, 43d/50d, Short	1
22	12333	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 25, Ss, NI	4
23	1223982	(10499417- 20000000)	Spacer, Head, 4mm (Push Model)	1
24	1223962	(10499417- 20000000)	Bracket Wldt, Mtg, Head, 43d/50d, Tall	1
25	222460	(10778394- 20000000)	Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	2
26	49694	(10000000- 10778393)	Screw, Hex, M8 X 1.25 X 50, Ss	1
27	01685	(10000000- 10778393)	Washer, Flat, 0.38b 0.88d .08, Ss	1
28	1214039	(10000000- 10778393)	Roller, Lift, Head	1
29	1032791	(10000000- 10499416)	Spacer, Head, 4mm [Ss3] (Push Model)	1
30	1210256	(10000000- 10499416)	Bracket Wldt, Mtg, Head, 50d, Tall [Vw] (Replaced By 1223962)	1

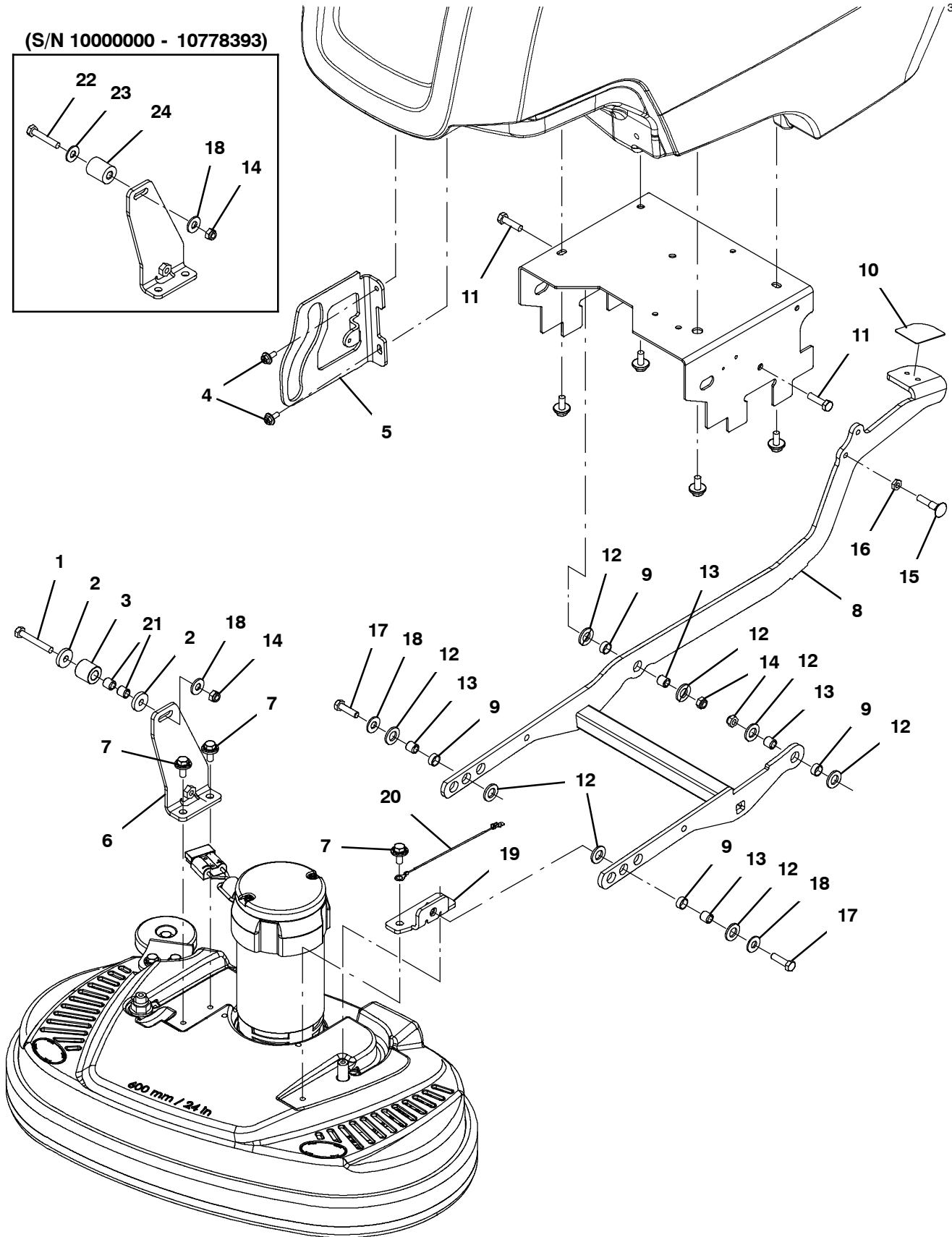
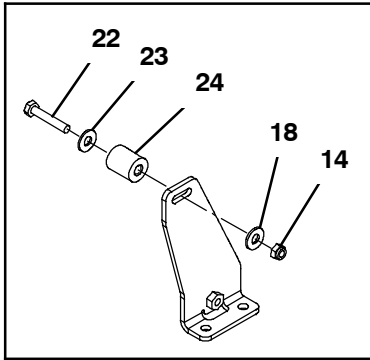
▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD LIFT GROUP, 60CM DUAL DISK MODEL

355356

(S/N 1000000 - 10778393)



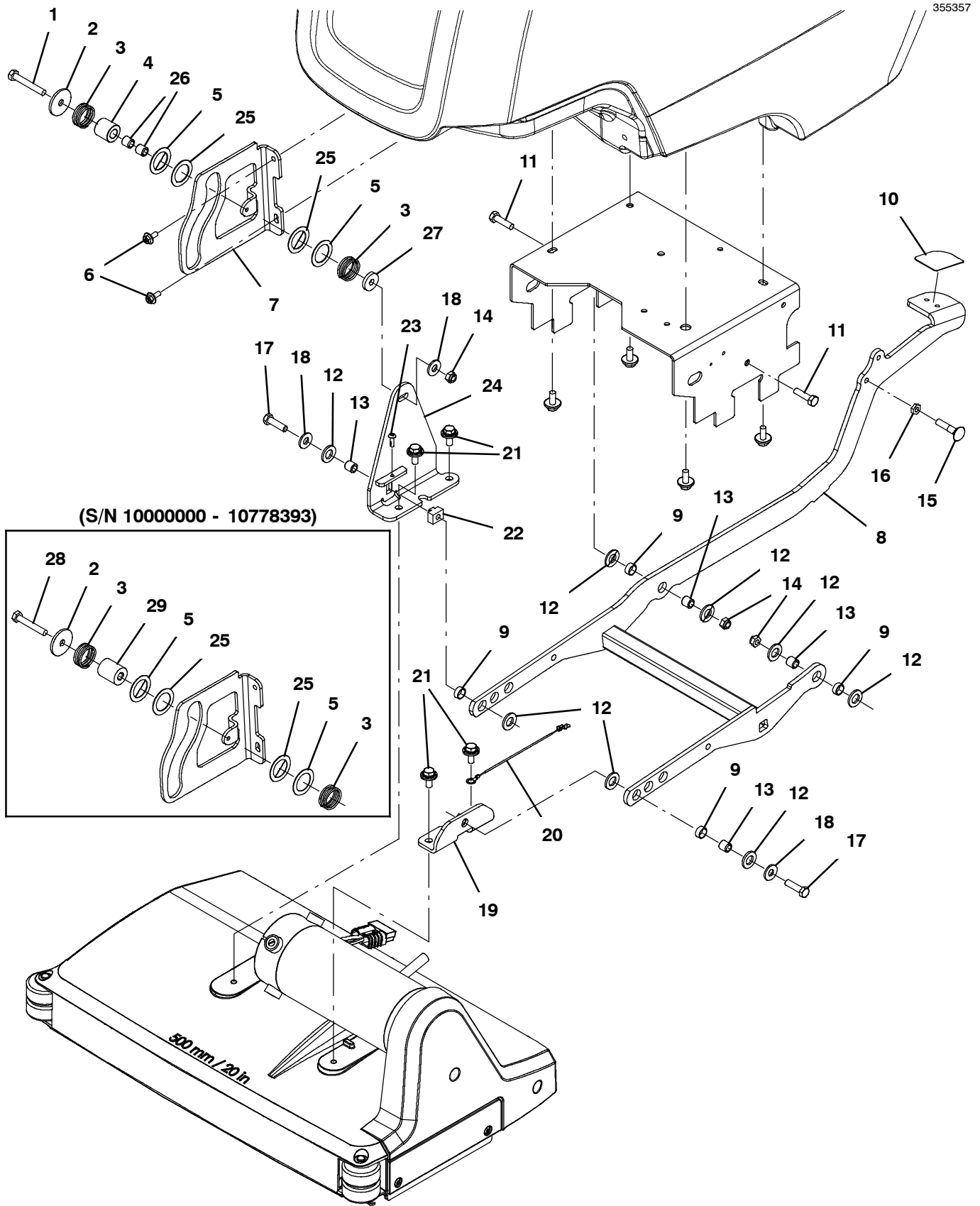
SCRUB HEAD LIFT GROUP, 60CM DUAL DISK MODEL

Ref.	Part No.	Serial Number	Description	Qty.	
1	222504	(10778394- 20000000)	Screw, Hex, M8 X 1.25 X 55, Ss	1	
2	1028796	(10778394- 20000000)	Washer, Flat, 0.33b 1.00d .18, Stl, Pl	2	
3	1014020	(10778394- 20000000)	Roller, 0.99d 0.50b 0.95l, Acetal	1	
4	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	2	
5	1213063	(10000000- 20000000)	Bracket, Guide, Head [Vw]	1	
6	1213220	(10000000- 20000000)	Bracket Wldt, Mtg, Head, 60dd, Tall [Vw]	1	
7	1020341	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Ss, Sems	3	
▽	8	9014170	(10000000- 20000000)	Kit, Lift, Head[T300/T300e/Ss300]	1
▲	9	630188	(10000000- 20000000)	Bearing, Journal, .50id X .25l	8
10	1218694	(10000000- 20000000)	Pad, Pedal, Lift	1	
11	09011	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	2	
12	1013936	(10000000- 20000000)	Washer, Flat, 0.51b 0.94d .10, Nyl	8	
13	222460	(10000000- 20000000)	Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	4	
14	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	3	
15	69915	(10000000- 20000000)	Bolt, Carriage, M8 X 1.25 X 40	1	
16	200101017	(10000000- 20000000)	Nut, Hex, Jam, M8 X 1.25	1	
17	1016399	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, NI, Ss	2	
18	01685	(10000000- 20000000)	Washer, Flat, 0.38b 0.88d .08, Ss	3	
19	1213224	(10000000- 20000000)	Bracket Wldt, Mtg, Head, 60dd, Short[Vw]	1	
20	1074344	(10000000- 20000000)	Harness, Ele [Ring With .250m Tail]	4	
21	222460	(10778394- 20000000)	Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	2	
22	49694	(10000000- 10778393)	Screw, Hex, M8 X 1.25 X 50, Ss	1	
23	01685	(10000000- 10778393)	Washer, Flat, 0.38b 0.88d .08, Ss	1	
24	1214039	(10000000- 10778393)	Roller, Lift, Head	1	

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD LIFT GROUP, 50CM CYLINDRICAL MODEL



SCRUB HEAD LIFT GROUP, 50CM CYLINDRICAL MODEL

Ref.	Part No.	Serial Number	Description	Qty.	
1	222504	(10778394- 20000000)	Screw, Hex, M8 X 1.25 X 55, Ss	1	
2	379829	(10000000- 20000000)	Washer, Flat, 0.34b 1.50d .12, Stl, Pl	1	
3	1210103	(10000000- 20000000)	Spring, Cmpr, 1.23od 0.085wir 0.88l	2	
4	1014020	(10778394- 20000000)	Roller, 0.99d 0.50b 0.95l, Acetal	1	
5	20955	(10000000- 20000000)	Washer, Flat, 1.03b 1.50d .04, Stl, Pl	2	
6	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	2	
7	1213063	(10000000- 20000000)	Bracket, Guide, Head [Vw]	1	
▽	8	9014170	(10000000- 20000000)	Kit, Lift, Head[T300/T300e/Ss300]	1
▲	9	630188	(10000000- 20000000)	Bearing, Journal, .50id X .25l	8
10	1218694	(10000000- 20000000)	Pad, Pedal, Lift	1	
11	09011	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	2	
12	1013936	(10000000- 20000000)	Washer, Flat, 0.51b 0.94d .10, Nyl	8	
13	222460	(10000000- 20000000)	Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	4	
14	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	3	
15	69915	(10000000- 20000000)	Bolt, Carriage, M8 X 1.25 X 40	1	
16	200101017	(10000000- 20000000)	Nut, Hex, Jam, M8 X 1.25	1	
17	1016399	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, NI, Ss	2	
18	01685	(10000000- 20000000)	Washer, Flat, 0.38b 0.88d .08, Ss	3	
19	1213226	(10000000- 20000000)	Bracket Wldt, Mtg, Head, 50cyl [Short]	1	
20	1074344	(10000000- 20000000)	Harness, Ele [Ring With .250m Tail]	1	
21	1020341	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Ss, Sems	4	
22	1221434	(10000000- 20000000)	Nut, T, M8 X 1.25, Pm Ss [B5/B7, T300]	1	
23	1205799	(10000000- 20000000)	Screw, Btn, M5 X 0.8 X 16, 8.8, NI, Torx	1	
24	1216222	(10000000- 20000000)	Bracket Wldt, Mtg, Head	1	
25	1210112	(10000000- 20000000)	Washer, Flat, 1.03b 1.50d .03, Nylon	2	
26	222460	(10778394- 20000000)	Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	2	
27	1028796	(10778394- 20000000)	Washer, Flat, 0.33b 1.00d .18, Stl, Pl	1	
28	49694	(10000000- 10778393)	Screw, Hex, M8 X 1.25 X 50, Ss	1	
29	1214039	(10000000- 10778393)	Roller, Lift, Head	1	

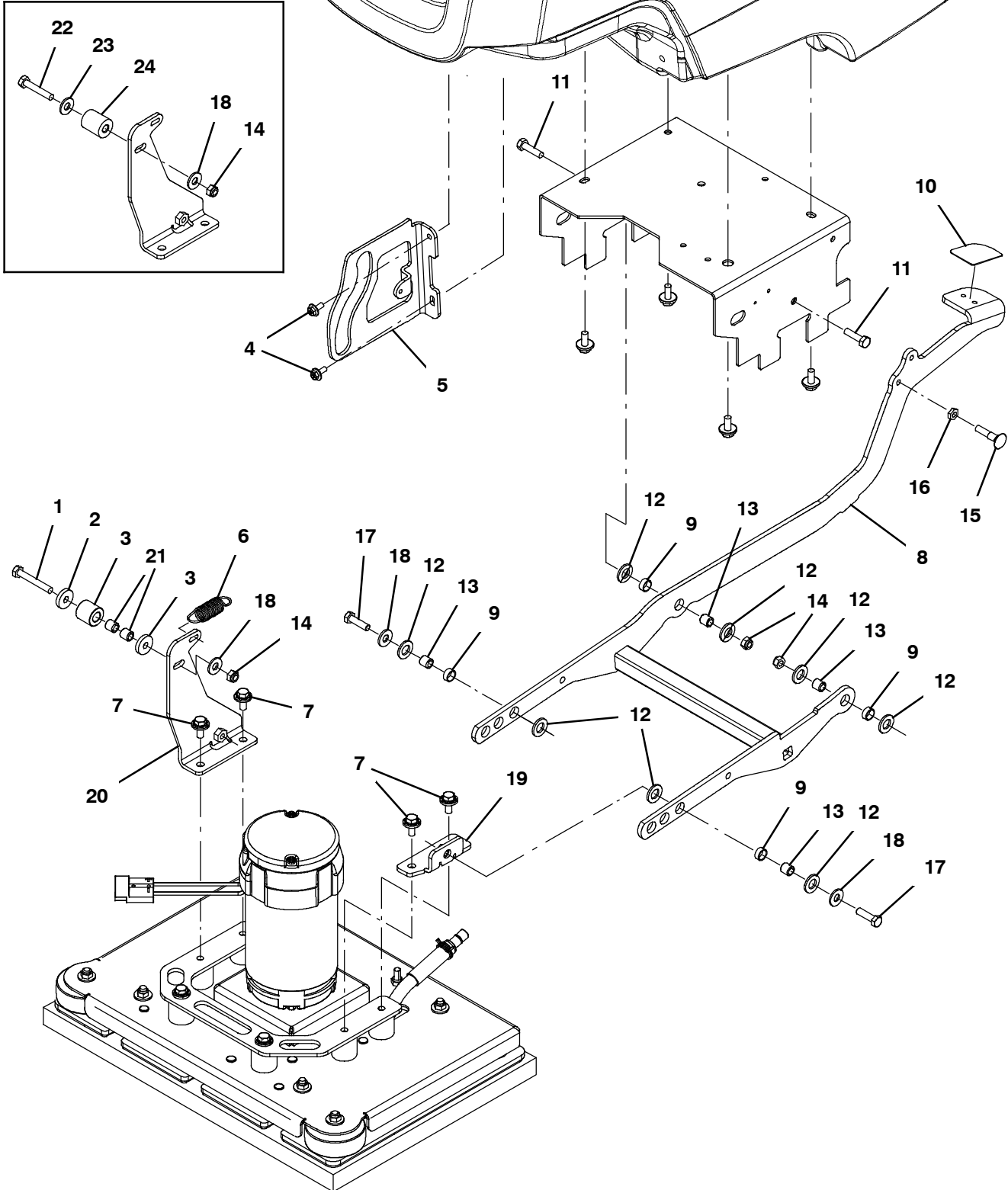
▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD LIFT GROUP, 50CM ORBITAL MODEL

355358

(S/N 1000000 - 10778393)



SCRUB HEAD LIFT GROUP, 50CM ORBITAL MODEL

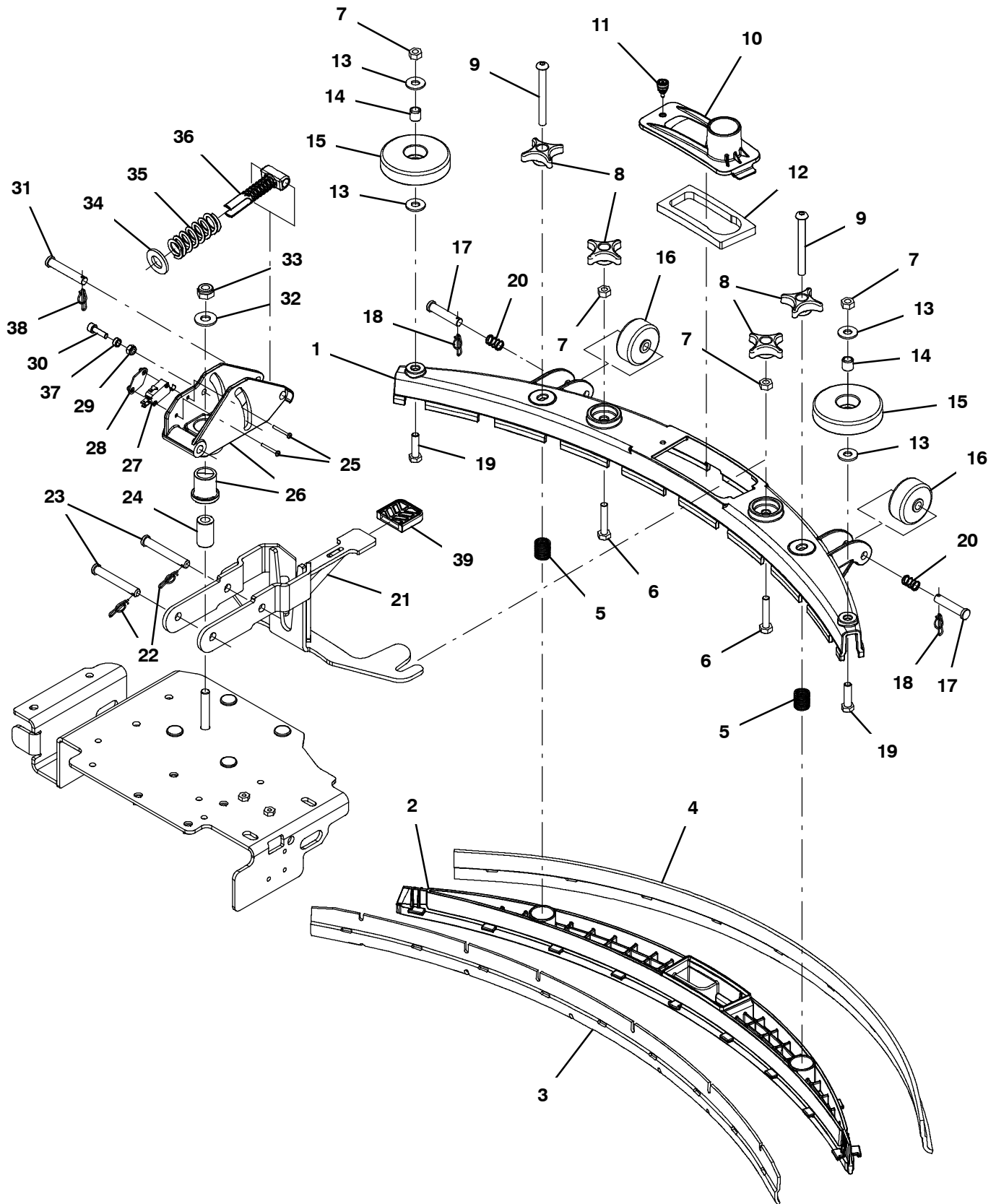
Ref.	Part No.	Serial Number	Description	Qty.
1	222504	(10778394- 20000000)	Screw, Hex, M8 X 1.25 X 55, Ss	1
2	1028796	(10778394- 20000000)	Washer, Flat, 0.33b 1.00d .18, Stl, Pl	2
3	1014020	(10778394- 20000000)	Roller, 0.99d 0.50b 0.95l, Acetal	1
4	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	2
5	1213063	(10000000- 20000000)	Bracket, Guide, Head [Vw]	1
6	1032420	(10000000- 20000000)	Spring, Extn, 0.85od 0.09wir 02.9l	1
7	1020341	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Ss, Sems	4
▽	8	9014170	(10000000- 20000000) Kit, Lift, Head[T300/T300e/Ss300]	1
▲	9	630188	(10000000- 20000000) Bearing, Journal, .50id X .25l	8
10	1218694	(10000000- 20000000)	Pad, Pedal, Lift	1
11	09011	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	2
12	1013936	(10000000- 20000000)	Washer, Flat, 0.51b 0.94d .10, Nyl	8
13	222460	(10000000- 20000000)	Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	4
14	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	3
15	69915	(10000000- 20000000)	Bolt, Carriage, M8 X 1.25 X 40	1
16	200101017	(10000000- 20000000)	Nut, Hex, Jam, M8 X 1.25	1
17	1016399	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, NI, Ss	2
18	01685	(10000000- 20000000)	Washer, Flat, 0.38b 0.88d .08, Ss	3
19	1212572	(10000000- 20000000)	Bracket Wldt, Mtg, Head, Orb, Short [Vw]	1
20	1213223	(10000000- 20000000)	Bracket Wldt, Mtg, Head, Orb, Tall [Vw]	1
21	222460	(10778394- 20000000)	Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	2
22	49694	(10000000- 10778393)	Screw, Hex, M8 X 1.25 X 50, Ss	1
23	01685	(10000000- 10778393)	Washer, Flat, 0.38b 0.88d .08, Ss	1
24	1214039	(10000000- 10778393)	Roller, Lift, Head	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SQUEEGEE GROUP

355305



SQUEEGEE GROUP

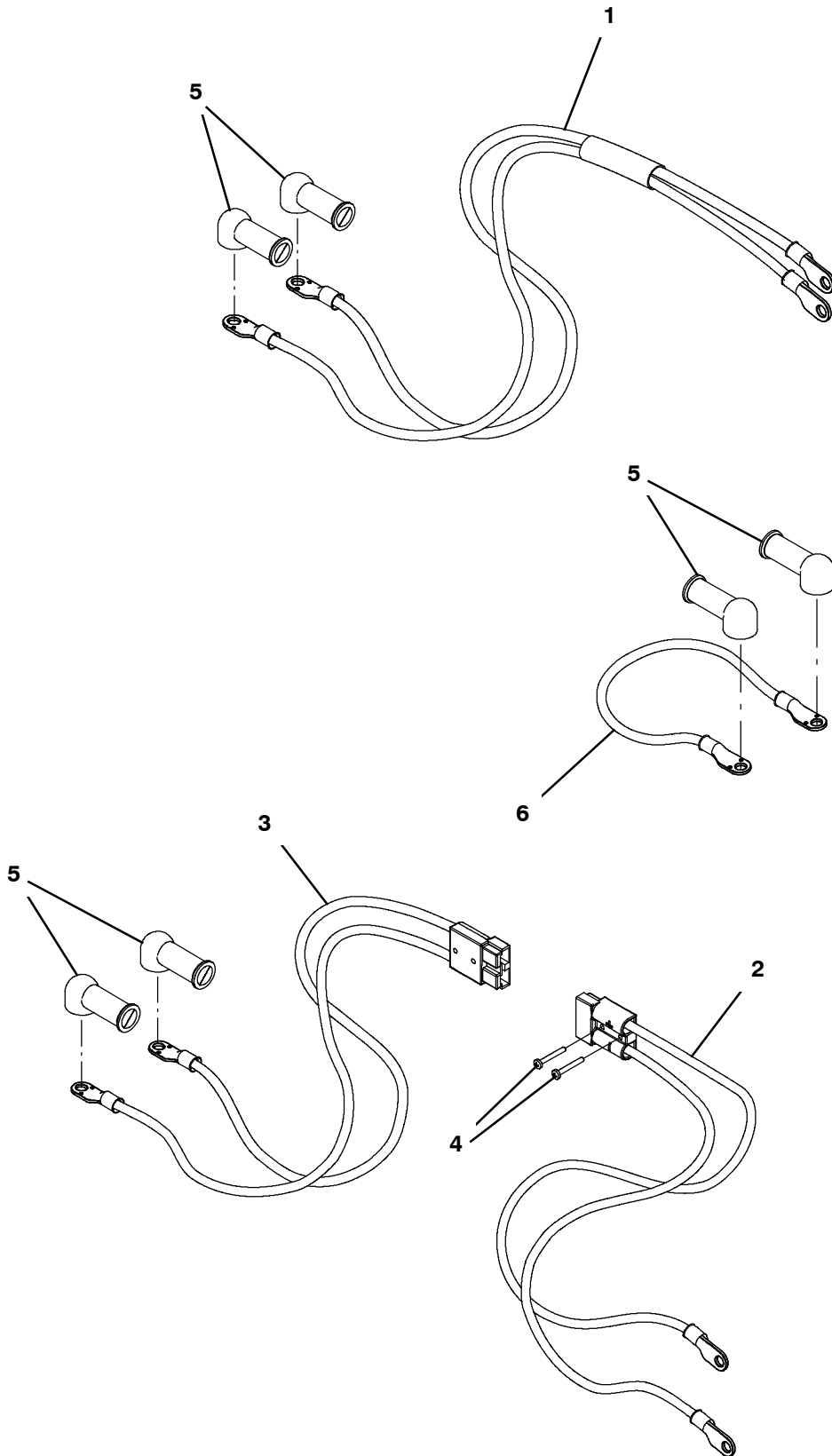
Ref.	Part No.	Serial Number	Description	Qty.
▽	9014172	(10000000- 20000000)	Squeegee Kit, Linatex, Am [T300/E/Ss300]	1
▲	1 1215681	(10000000- 20000000)	Frame, Sqge, 50cm, Mach [T300]	1
▲	2 1203638	(10000000- 20000000)	Retainer, Sqge [T300]	1
▲	3 1203954	(10000000- 20000000)	Blade, Sqge, Front, 788l, Linatex[500mm] (Standard)	1
	3 1215611	(10000000- 20000000)	Blade, Sqge, Front, 788l, Urethane[500mm] (Option)	1
	3 1215612	(10000000- 20000000)	Blade, Sqge, Front, 788l, Gum[500mm] (Option)	1
▲	4 1203953	(10000000- 20000000)	Blade, Sqge, Rear, 836l, Linatex[500mm] (Standard)	1
	4 1215609	(10000000- 20000000)	Blade, Sqge, Rear, 836l, Urethane[500mm] (Option)	1
	4 1215610	(10000000- 20000000)	Blade, Sqge, Rear, 836l, Gum[500mm] (Option)	1
▲	5 22290	(10000000- 20000000)	Spring, Cmpr, 0.72od .06wir 02.3l	2
▲	6 09023	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 35, Fl, Ss	2
▲	7 07786	(10000000- 20000000)	Nut, Hex, Std, M8 X 1.25, Ss	4
▲	8 1213677	(10000000- 20000000)	Knob, Star, 2.00od 4ear M8x1.25 [Yel]	4
▲	9 1212755	(10000000- 20000000)	Screw, Btn, Soc, M8x1.25x80, Ss	2
▲	10 1209631	(10000000- 20000000)	Cover, Trap, Water, Sqge	1
▲	11 1212683	(10000000- 20000000)	Screw, Captive, M5, Knurled [Snap In]	1
▲	12 1210756	(10000000- 20000000)	Gasket, Trap, Water, Sqge	1
▲	13 140027	(10000000- 20000000)	Washer, Flat, 0.35b 0.75d .04, Ss	4
▲	14 222460	(10000000- 20000000)	Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	2
▲	15 1010560	(10000000- 20000000)	Wheel, Bmpr, 80d X 25w, Non- Marking	2
▲	16 630477	(10000000- 20000000)	Wheel, Pyu, 02.0d 0.38w, Gray	2
▲	17 17461	(10000000- 20000000)	Pin, Clevis, 0.37d X 1.75l	2
▲	18 1216647	(10000000- 20000000)	Pin, Cotter, Hair, 0.38d .054 Wir	2
▲	19 1016399	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ni, Ss	2
▲	20 1017091	(10000000- 20000000)	Spring, Cmpr, 0.50od .04wir 00.8l	2
	21 9014303	(10000000- 20000000)	Bracket Kit, Sqge, Wdt [T300/E, Ss300]	1
	22 1216647	(10000000- 20000000)	Pin, Cotter, Hair, 0.38d .054 Wir	2
	23 391179	(10000000- 20000000)	Pin, Clevis, 0.37d X 2.62l	2
	24 1214467	(10000000- 20000000)	Sleeve, P/M, 0.41b 0.75d 1.3l [430ss]	1
	25 33933	(10000000- 20000000)	Screw, Pan, Phl, M3 X 0.50 X 25, Ss	1
	26 9014301	(10000000- 20000000)	Bracket Kit, Sqge, Lift [T300/E, Ss300]	1
	27 1215716	(10000000- 20000000)	Switch, 0.1a, Spdt[Micro, Gold Contacts]	1
	28 1013705	(10000000- 20000000)	Plate, Thread, Switch, M3 Nut, 96hr PI	1
	29 08712	(10000000- 20000000)	Nut, Hex, Lock, M6 X 1.00, Ni, Ss	1
	30 33951	(10000000- 20000000)	Screw, Soc, M6 X 1.00 X 20, 12.9	1
	31 51813	(10000000- 20000000)	Pin, Clevis, 0.37d X 2.12l	1
	32 140045	(10000000- 20000000)	Washer, Flat, 0.51b 1.25d .06, Ss	1
	33 08714	(10000000- 20000000)	Nut, Hex, Lock, M10 X 1.5, Ni, Ss	1
	34 69954	(10000000- 20000000)	Washer, Thrust, 0.63b 1.25d 0.13w	1
	35 1215756	(10000000- 20000000)	Spring, Cmpr, 0.98od .146wir 02.5l	1
	36 1209782	(10000000- 20000000)	Pin, Guide, Spring	1
	37 80491	(10000000- 20000000)	Sleeve, P/M, 0.25b 0.38d 0.2l [430ss]	1
	38 1216647	(10000000- 20000000)	Pin, Cotter, Hair, 0.38d .054 Wir	1
	39 1212533	(10000000- 20000000)	Cover, Pedal, Lift	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

BATTERY CABLE GROUP

355403



BATTERY CABLE GROUP

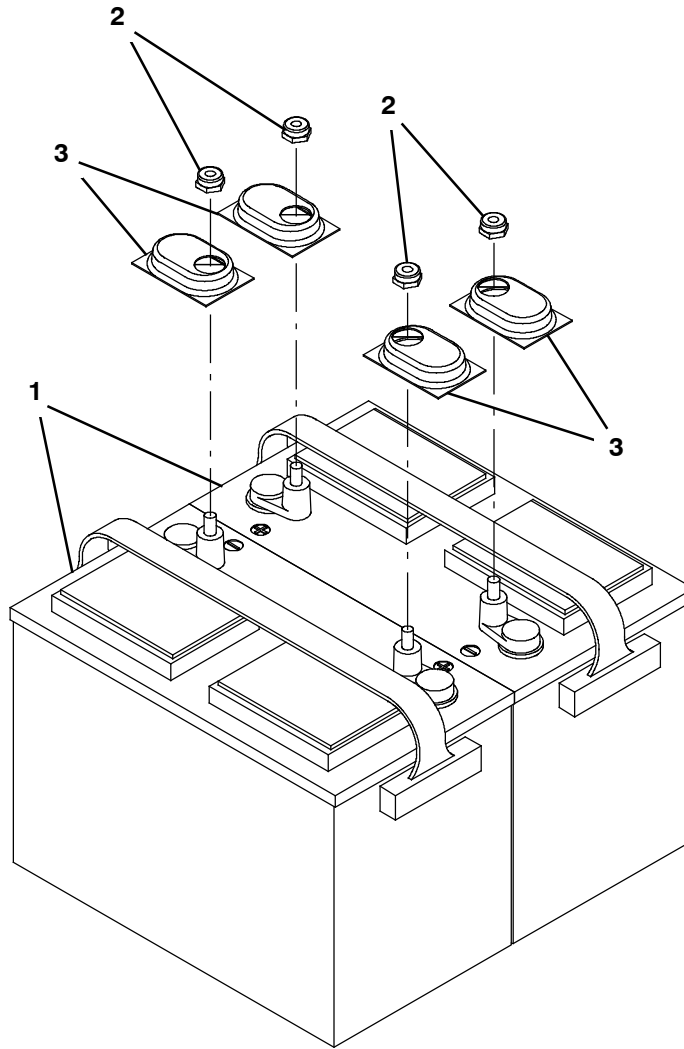
Ref.	Part No.	Serial Number	Description	Qty.	
1	1074847	(10790532- 20000000)	Cable, Assy [T300e]	1	
▽	9014781	(10000000- 20000000)	Cable Kit, Battery, Ring, Tray,Ci[T300e] (Required for Battery Lift Out Kit Option)	1	
▲	2	1073629	(10000000- 10790531)	Cable, Battery, 4ga [M8 Ring/M8 Ring]	1
▲	3	1073628	(10000000- 10790531)	Cable, Battery, 4ga [M8 Ring/M8 Ring]	1
▲	4	33931	(10000000- 10790531)	Screw, Pan, Phl, M4 X 0.70 X 30, Ss	2
	5	611221	(10790532- 20000000)	Boot, Terminal, Battery, 25.4mm, Blk	2
	5	611221	(10000000- 10790531)	Boot, Terminal, Battery, 25.4mm, Blk	4
	6	1073680	(10000000- 20000000)	Cable, 04ga 15.0l Blk [M8 Ring/M8 Ring]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

BATTERY GROUP, 105AH C20 WET

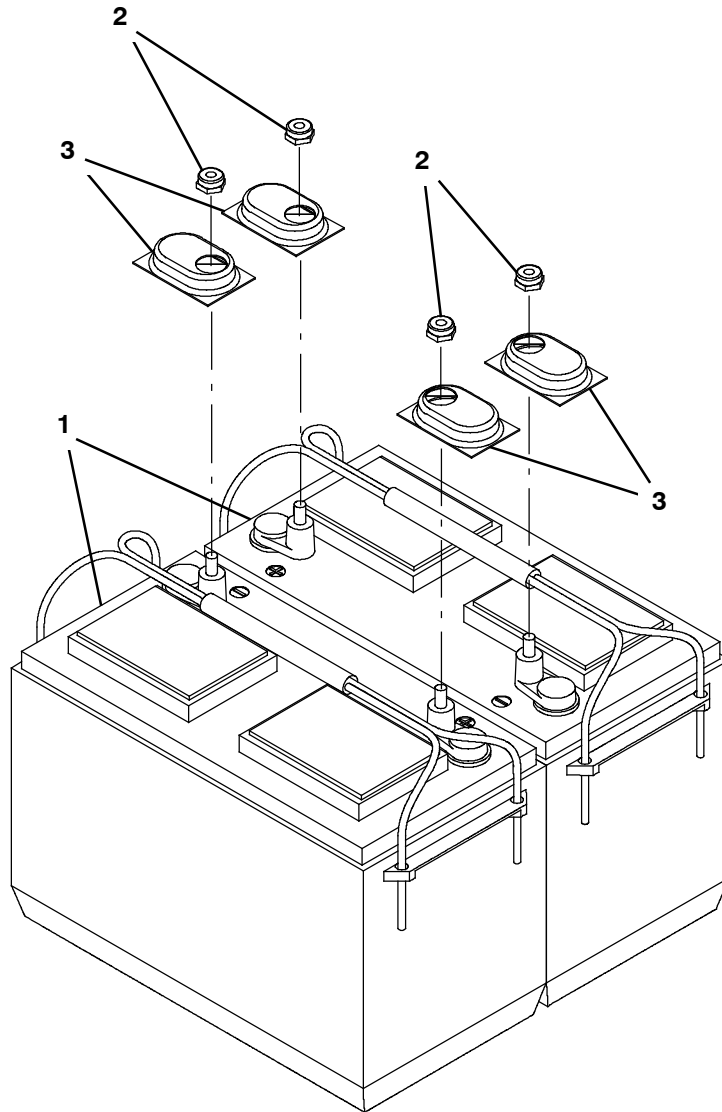
355359



Ref.	Part No.	Serial Number	Description	Qty.
1	578426	(10000000-20000000)	Battery, Wet, 12vdc 0105ah [S8, 27tmx]	2
2	87435	(10000000-20000000)	Nut, Hex, Flexlock, .31 - 18	4
3	45962	(10000000-20000000)	Cap, Battery, White [For 105ah & 130ah]	4

BATTERY GROUP, 130AH C20 WET

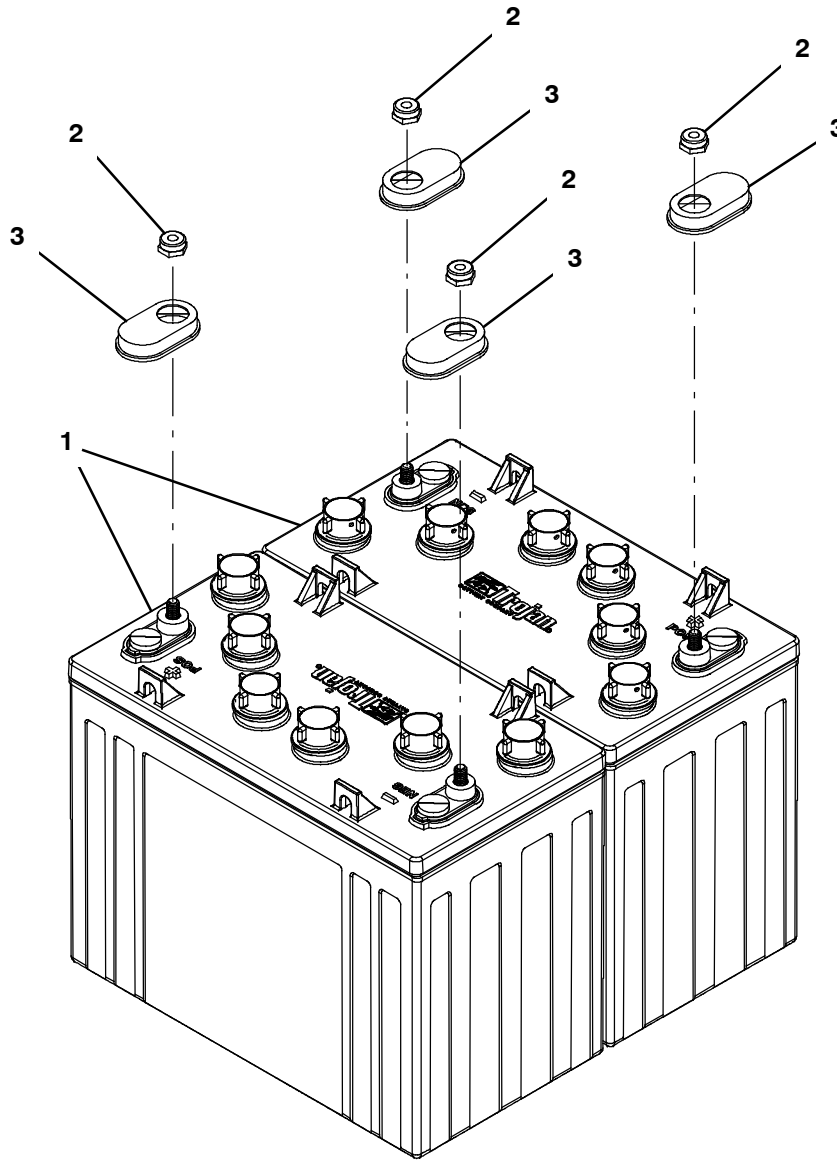
355360



Ref.	Part No.	Serial Number	Description	Qty.
1	130869	(10000000- 20000000)	Battery, Wet, 12vdc 0130ah [30xhs- Wnt]	2
2	87435	(10000000- 20000000)	Nut, Hex, Flexlock, .31 - 18	4
3	45962	(10000000- 20000000)	Cap, Battery, White [For 105ah & 130ah]	4

BATTERY GROUP, 155AH C20 WET

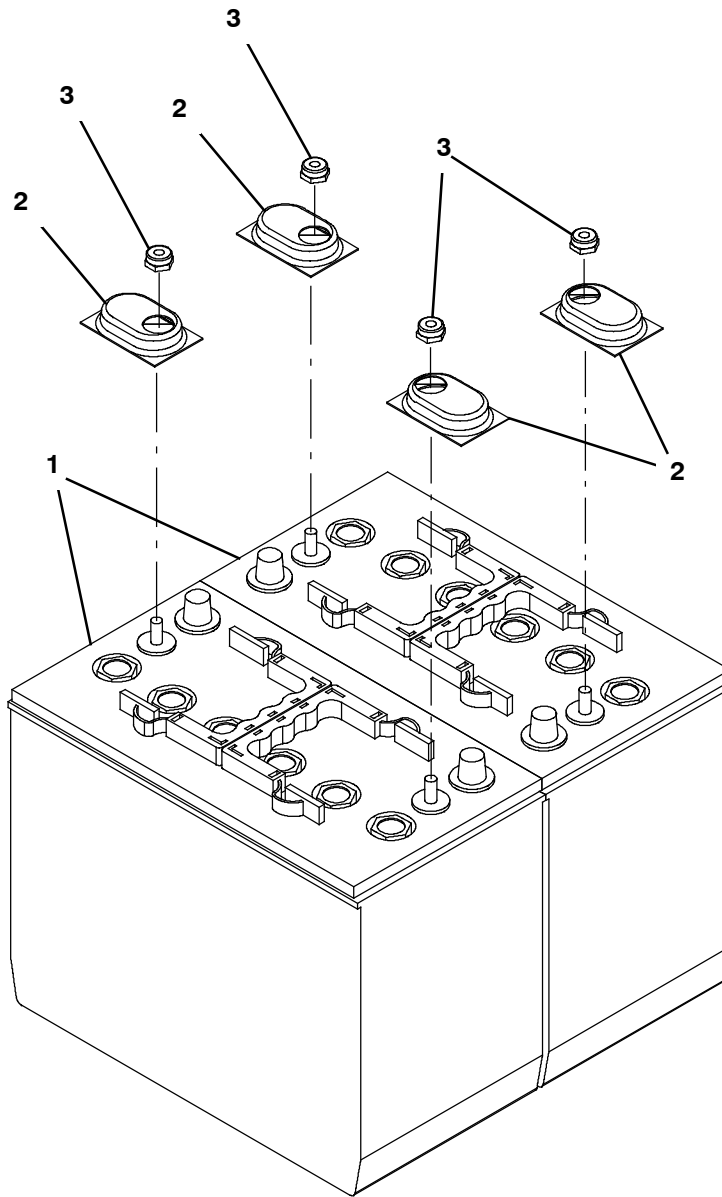
355361



Ref.	Part No.	Serial Number	Description	Qty.
1	1015046	(10000000-20000000)	Battery, Wet, 12vdc 0155ah	2
2	87435	(10000000-20000000)	Nut, Hex, Flexlock, .31 - 18	4
3	1041030	(10000000-20000000)	Cap, Battery, Black [For 155ah]	4

BATTERY GROUP, 140AH C20 AGM

355362



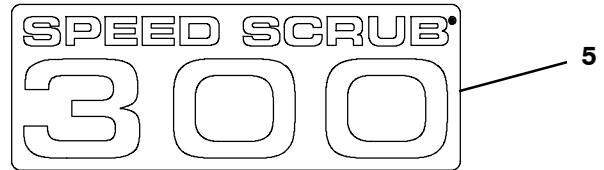
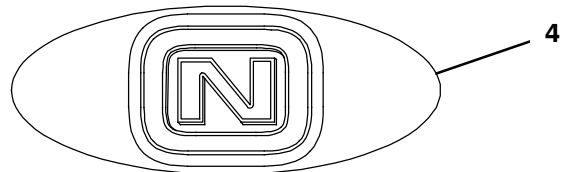
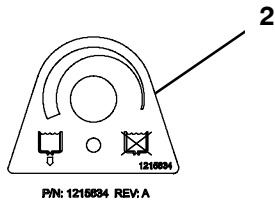
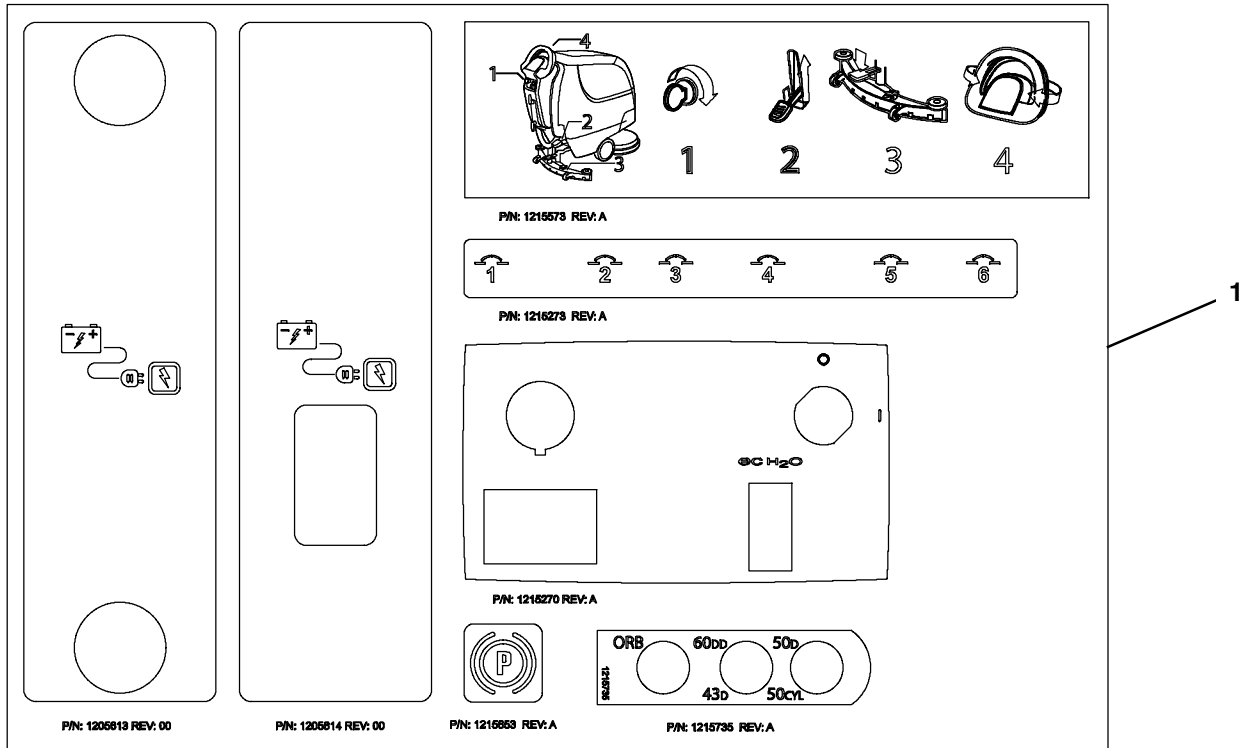
	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1053408	(10000000-20000000)	Battery, 12vdc 0140ah [Agm]	2
▲	2	45962	(10000000-20000000)	Cap, Battery, White [For 105ah & 130ah]	4
	3	87435	(10000000-20000000)	Nut, Hex, Flexlock, .31- 18	4

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

LABEL GROUP

355366

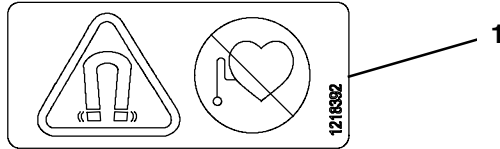


LABEL GROUP

Ref.	Part No.	Serial Number	Description	Qty.
1	1215777	(10000000- 20000000)	Label Sheet, Operational	1
2	1215634	(10000000- 20000000)	Label, Opertnl, Solution Knob Adj	1
3	1214279	(10000000- 20000000)	Label, Orbital, Size, 50cm (Orbital Head)	1
4	1206159	(10000000- 20000000)	Label, Logo, 05.5l [Nobles]	1
5	1215264	(10000000- 20000000)	Label, Speed Scrub 300	2
6	1216533	(10000000- 20000000)	Label, Logo [Ech2o Nano Nobles] (ec- H2O Model)	2

LABEL GROUP - CONT'D

355367



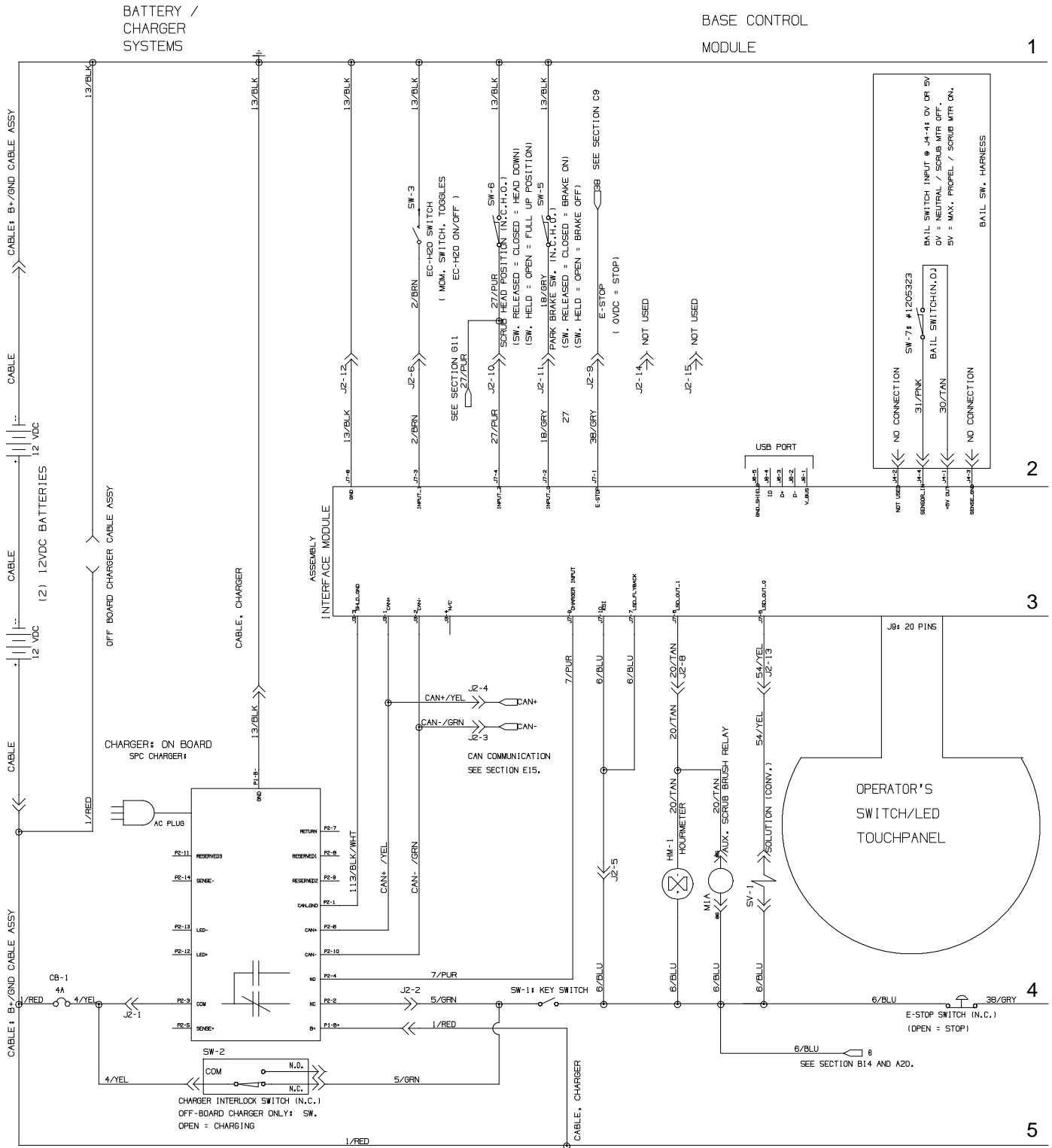
	<p>⚠ WARNING TO REDUCE THE RISK OF FIRE, EXPLOSION, ELECTRICAL SHOCK, OR INJURY:</p> <ul style="list-style-type: none"> • Read manual before operating machine. • Do not use or pick up flammable materials. • Do not use near flammable liquids, vapors or combustible dusts. • Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flames away when charging. • Disconnect battery cables and charge plug before servicing machine. • Do not charge batteries with damaged cord. • Do not use outdoors. Store indoors. 	<p>⚠ AVERTISSEMENT POUR RÉDUIRE LES RISQUES D'INCENDIE, L'EXPLOSION, DE CHOC ÉLECTRIQUE OU DE LÈSURE:</p> <ul style="list-style-type: none"> • Lire le manuel avant d'utiliser la machine. • N'utilisez pas ou ne ramassez pas de matériaux inflammables. • N'utilisez pas près de liquides, vapeurs ou poussières inflammables. • Les batteries démontent de l'hydrogène gazeux. Risque d'explosion et d'incendie. Évitez toute étincelle et toute flamme nue lors de la charge des batteries. • Débranchez les câbles des batteries et le cordon du chargeur avant l'entretien de la machine. • Ne chargez pas les batteries avec un cordon endommagé. • N'utilisez pas à l'extérieur. Entrez-les à l'intérieur. 	<p>⚠ ADVERTENCIA PARA REDUCIR EL RIESGO DE INCENDIO, EXPLOSION, CHOCQUE ELÉCTRICO, O LESIONES:</p> <ul style="list-style-type: none"> • Lea el manual antes de utilizar la máquina. • No utilice ni recoja materiales inflamables. • No utilice la máquina cerca de líquidos, polvo o vapores inflamables. • Las baterías emiten hidrógeno. Peligro de incendio o explosión. Evite las máquinas alejadas de chispas y flamas cuando se está cargando. • Desconecte los cables de la batería antes de realizar el servicio a la máquina. • No cargue las baterías si el cable está dañado. • No utilice la máquina al aire libre. Guárdela en un lugar cerrado. 	<p>⚠ WARNING Splicing Plug. Keep Hands Away. ⚠ AVERTISSEMENT Pours En Rotation. Mégarce Vos Mains. ⚠ ADVERTENCIA Almacénala Giratoria. Manténgase Alejados Las Manos.</p>	
P/N: 1216261 REV:A				P/N: 1206786 REV: 00	
<p style="text-align: center;">P/N: 1216272 REV:A</p>				<p style="text-align: center;">P/N: 1206911 REV: 00</p>	<p style="text-align: center;">P/N: 1216691 REV:A</p>
<p style="text-align: center;">P/N: 1204384 REV: 00</p>				<p>⚠ WARNING Splicing Brush. Keep Hands Away. ⚠ AVERTISSEMENT Brosse En Rotation. Mégarce Vos Mains. ⚠ ADVERTENCIA Cepillo Giratorio. Manténgase Alejados Las Manos.</p>	
P/N: 1215780 REV:A				P/N: 1215780 REV:A	

LABEL GROUP - CONT'D

Ref.	Part No.	Serial Number	Description	Qty.
1	1218392	(10000000- 20000000)	Label, Safety, Magnet, Med (Magnetic Heads)	1
2	1215774	(10000000- 20000000)	Label Sheet, Info/Hzrd [Na]	1

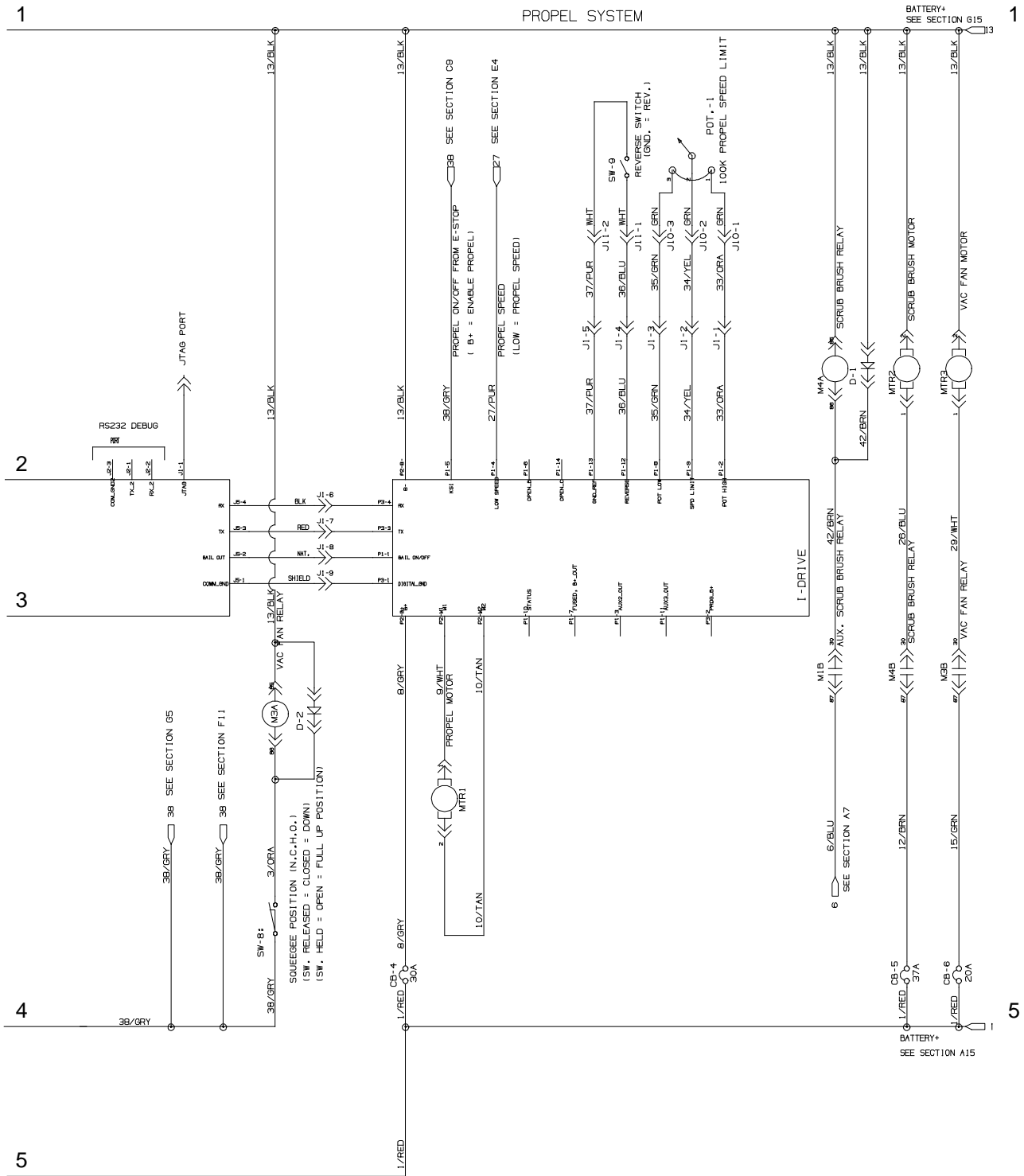
ELECTRICAL DIAGRAM, PROPEL MODEL (PAGE 1 OF 3)

1074707_00



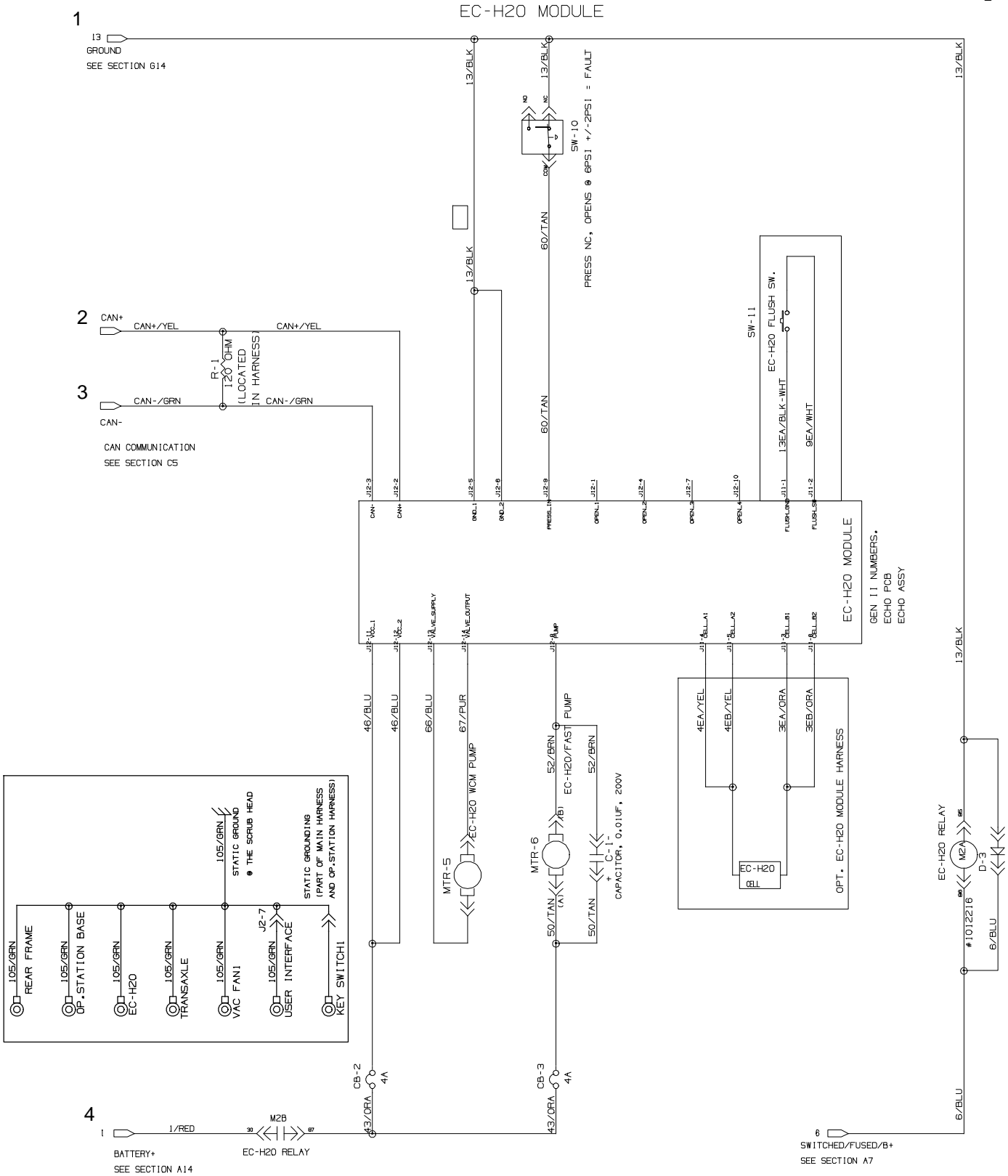
ELECTRICAL DIAGRAM, PROPEL MODEL (PAGE 2 OF 3)

1074707_00



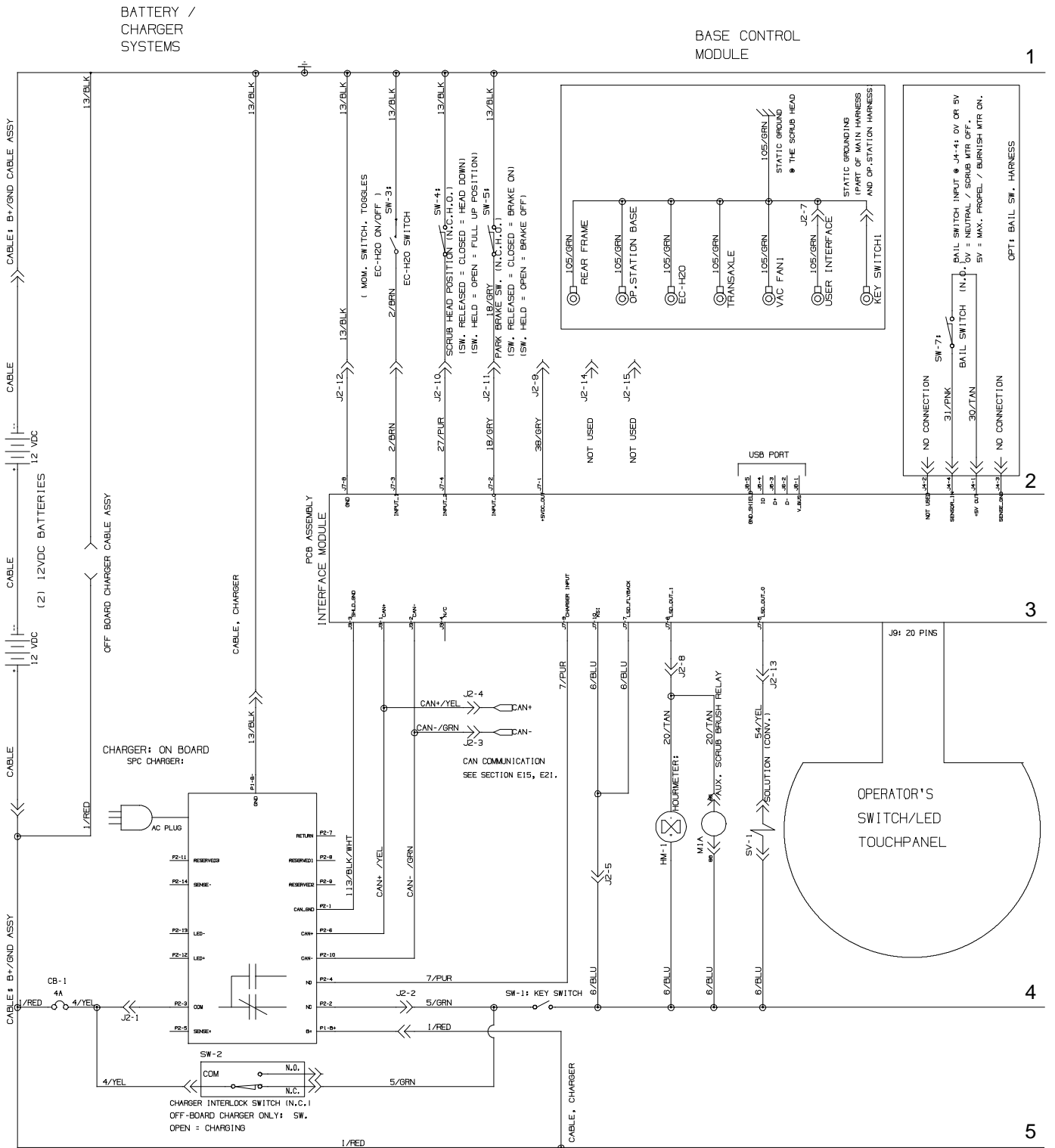
ELECTRICAL DIAGRAM, PROPEL MODEL (PAGE 3 OF 3)

1074707_00



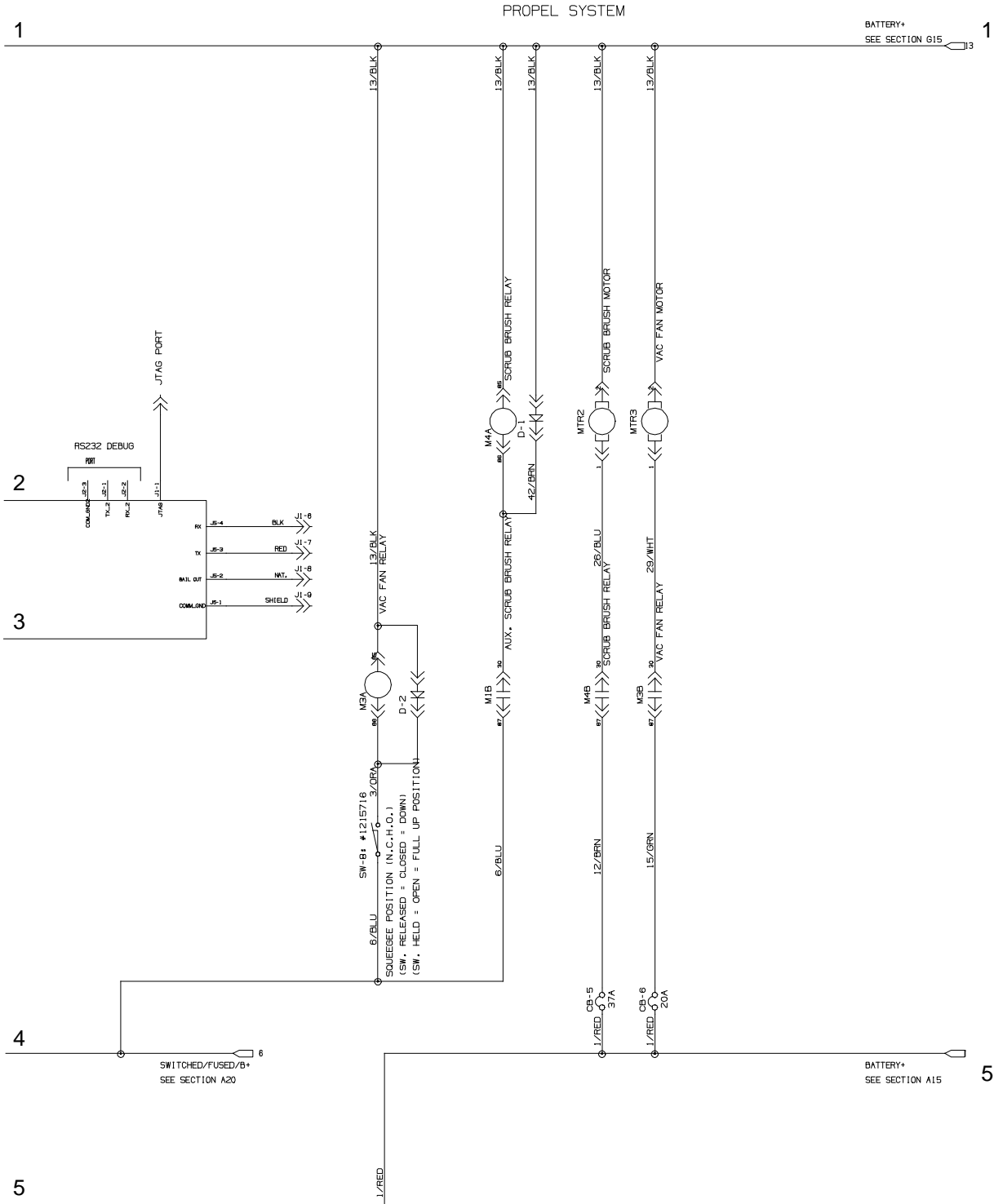
ELECTRICAL DIAGRAM, PUSH MODEL (PAGE 1 OF 3)

1074708_00



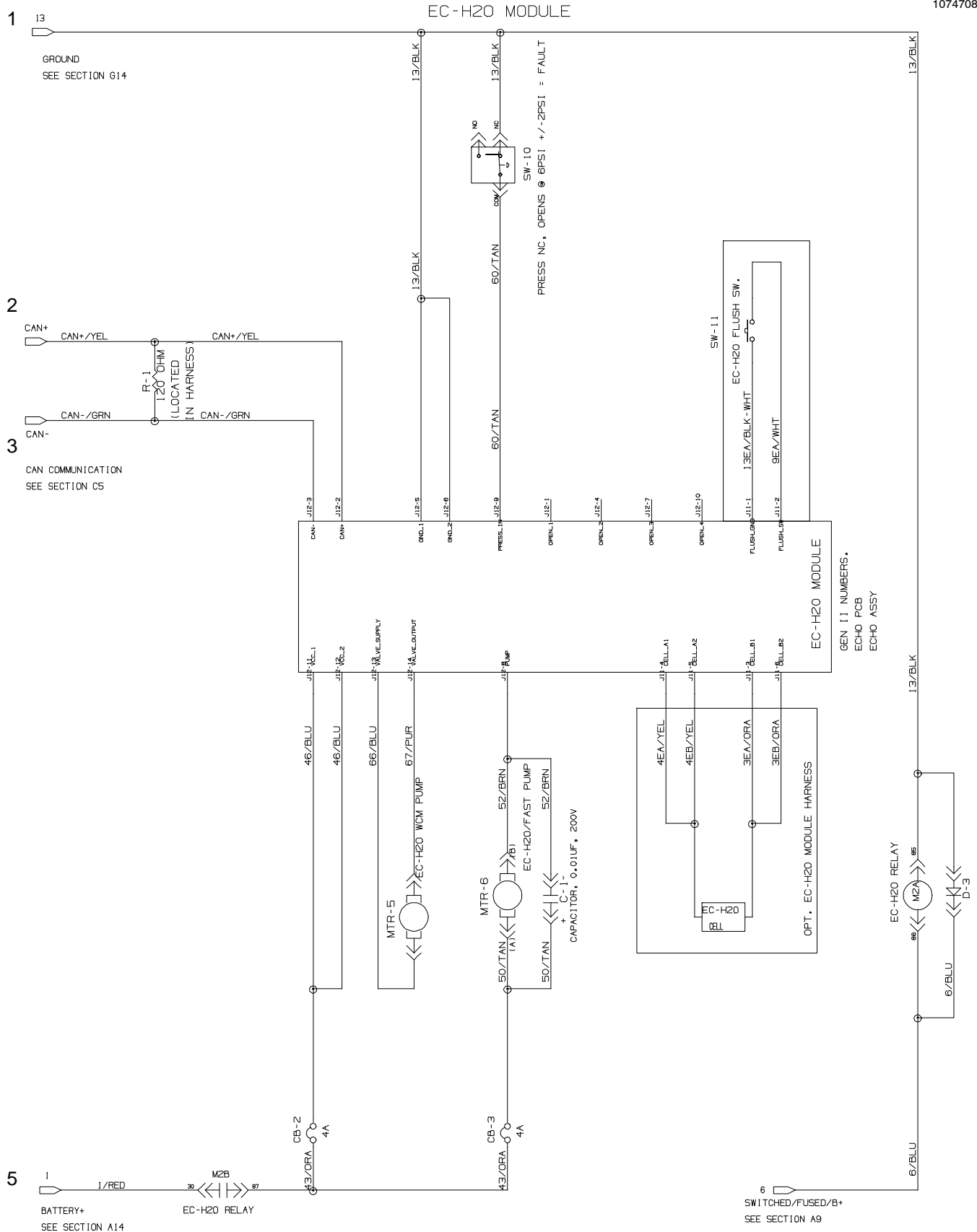
ELECTRICAL DIAGRAM, PUSH MODEL (PAGE 2 OF 3)

1074708_00



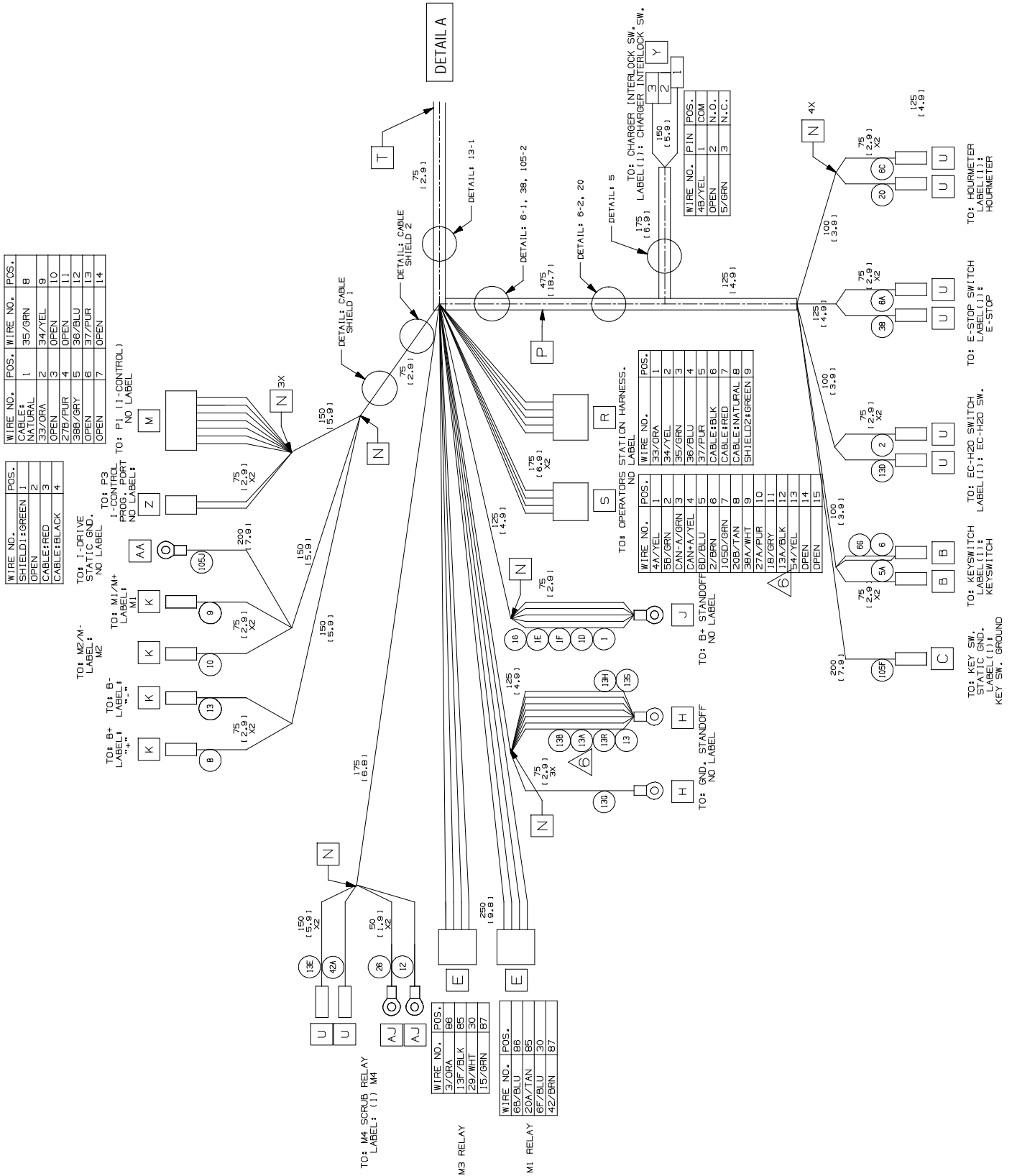
ELECTRICAL DIAGRAM, PUSH MODEL (PAGE 3 OF 3)

1074708_00



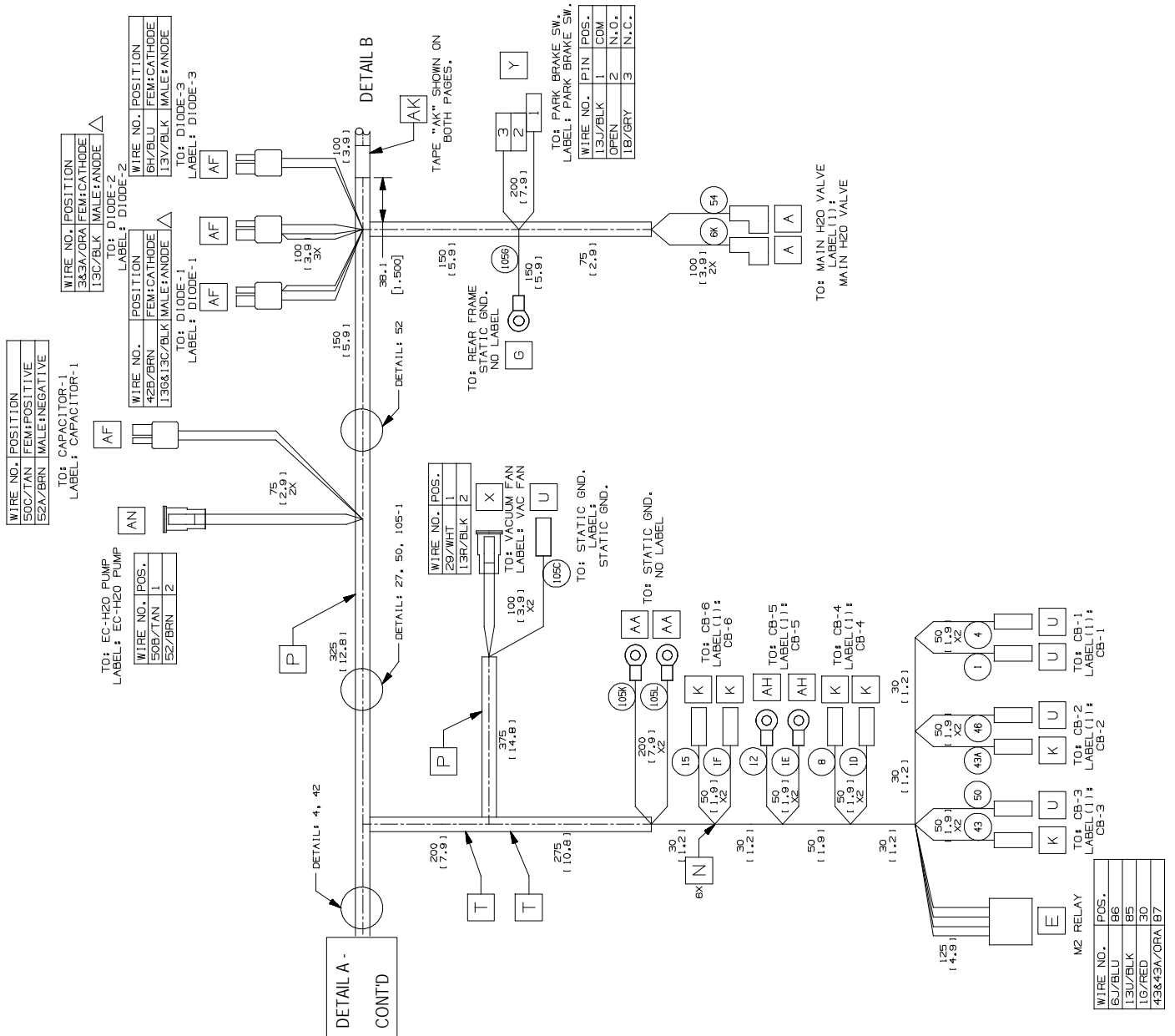
ELECTRICAL HARNESS, MAIN PROPEL (PAGE 1 OF 3)

1073676



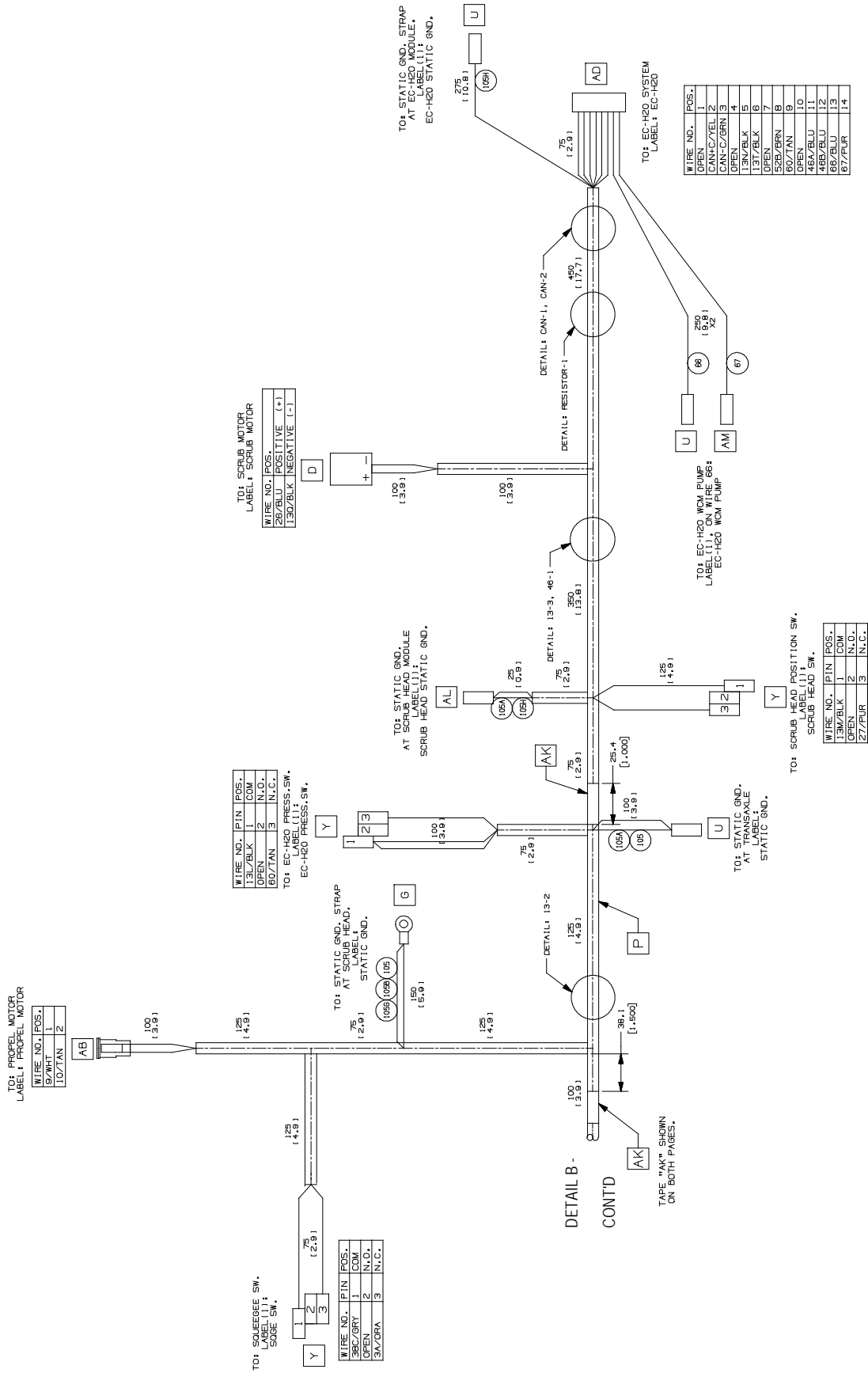
ELECTRICAL HARNESS, MAIN PROPEL (PAGE 2 OF 3)

1073676



ELECTRICAL HARNESS, MAIN PROPEL (PAGE 3 OF 3)

1073676



ELECTRICAL HARNESS, MAIN PROPEL

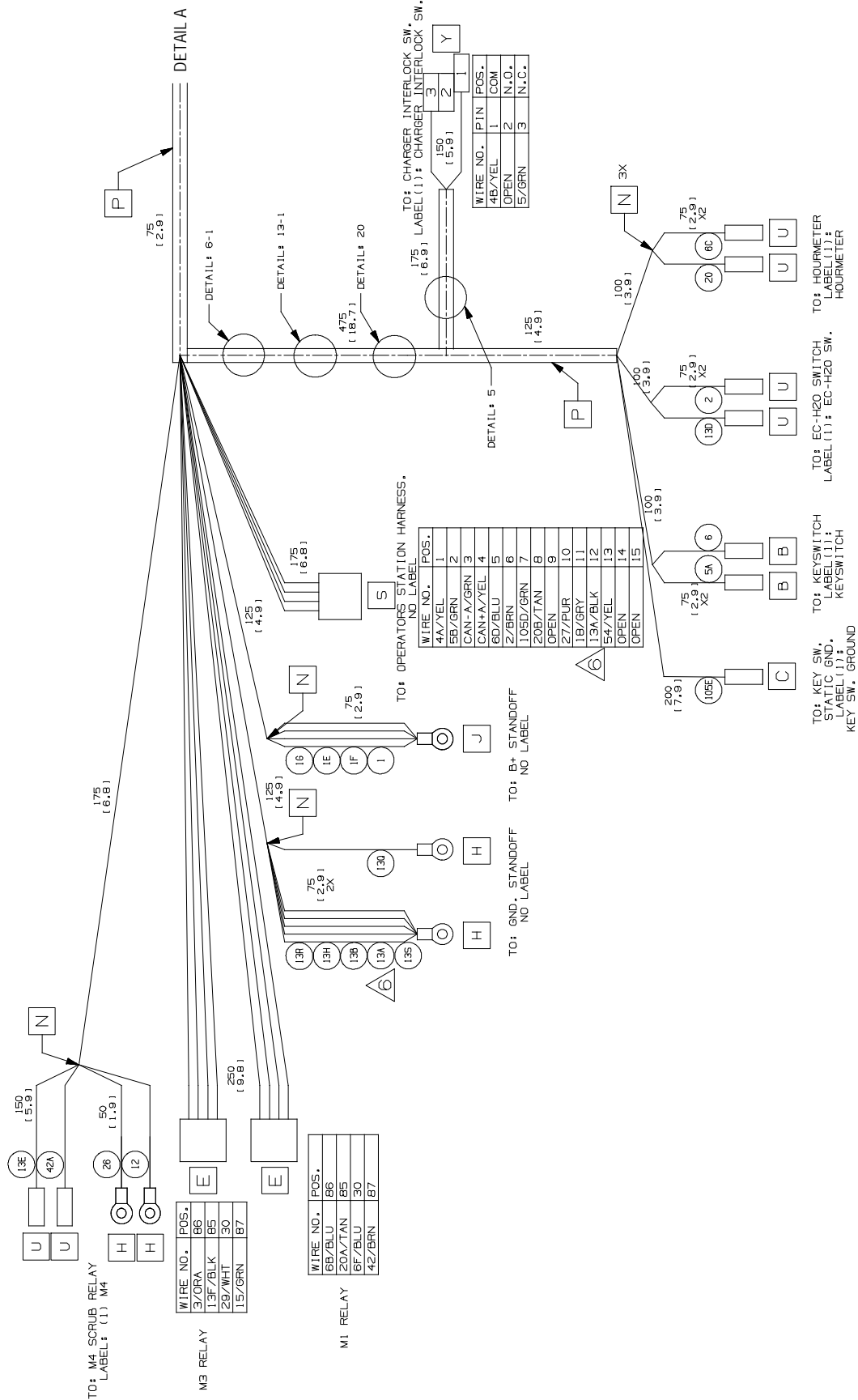
	Part No.	Serial Number	Description	Qty.
▽	1073676	(00000000-	) Harness, Main, Ele [Vw, Base, Propel]	1
▲	222290	(00000000-	) Diode, Ele, Plug	3

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

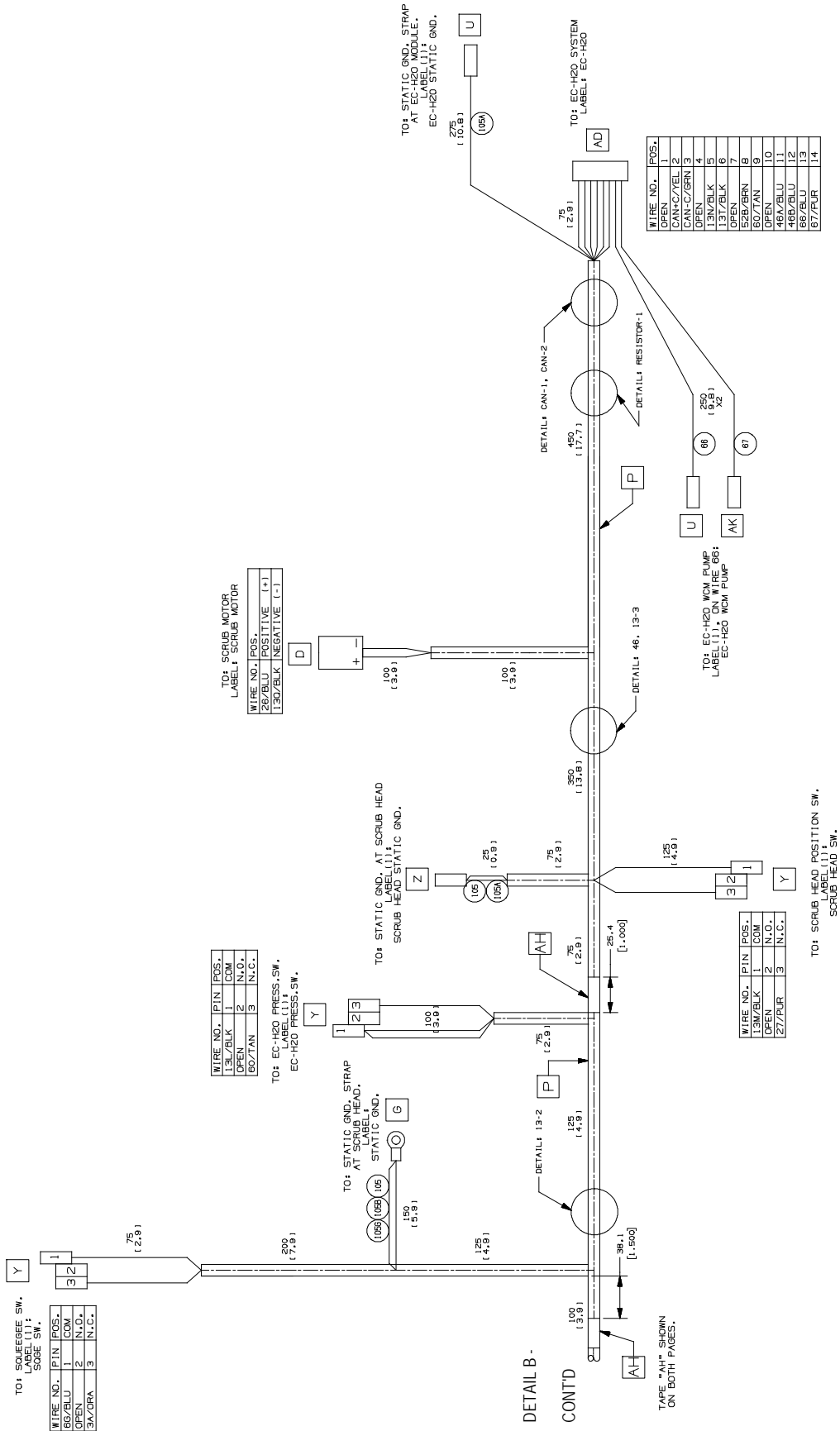
ELECTRICAL HARNESS, MAIN PUSH (PAGE 1 OF 3)

1073677



ELECTRICAL HARNESS, MAIN PUSH (PAGE 3 OF 3)

1073677



ELECTRICAL HARNESS, MAIN PUSH

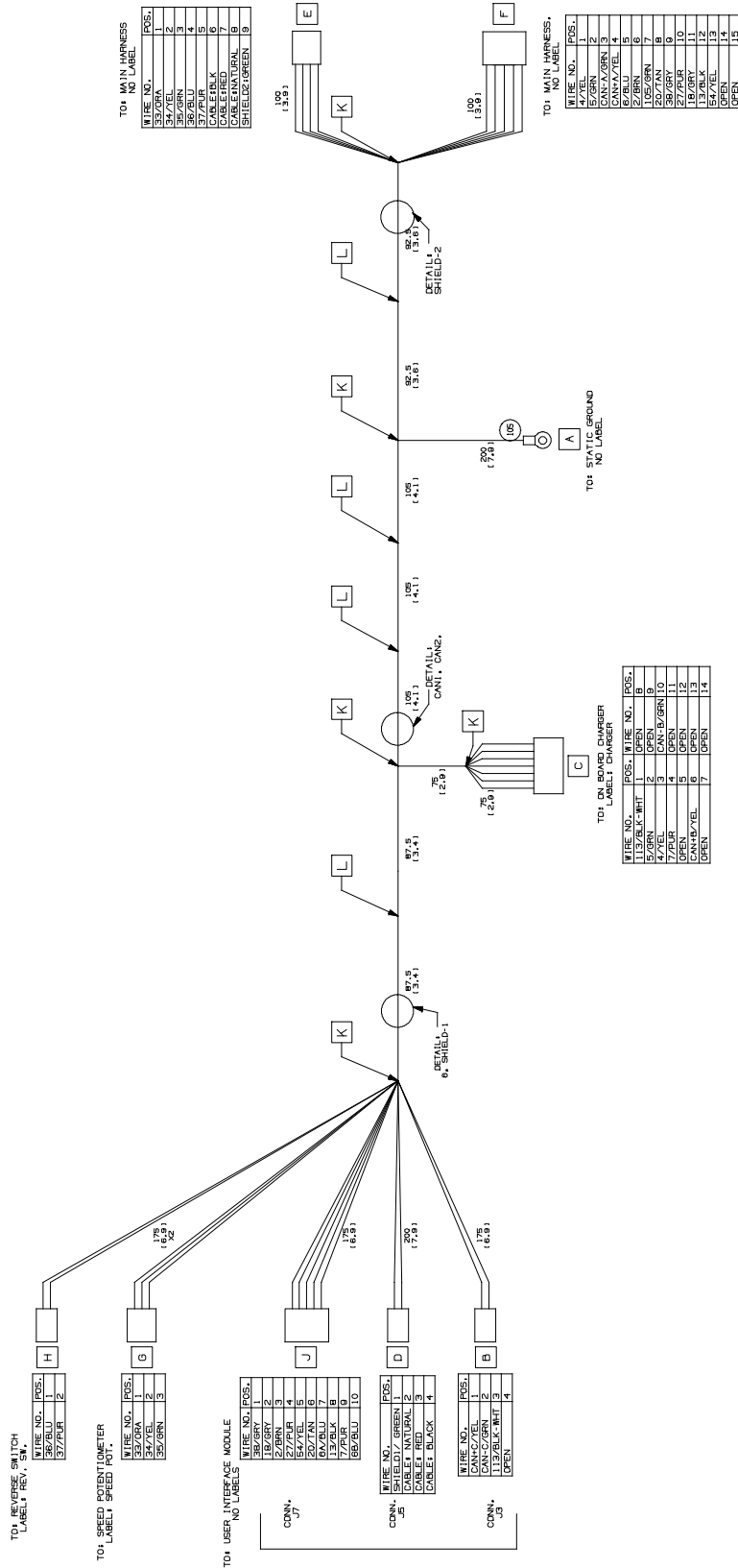
	Part No.	Serial Number	Description	Qty.
▽	1073677	(00000000-	) Harness, Main, Ele [Vw, Base, Push]	1
▲	222290	(00000000-	) Diode, Ele, Plug	3

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

ELECTRICAL HARNESS, OPTIONS PROPEL

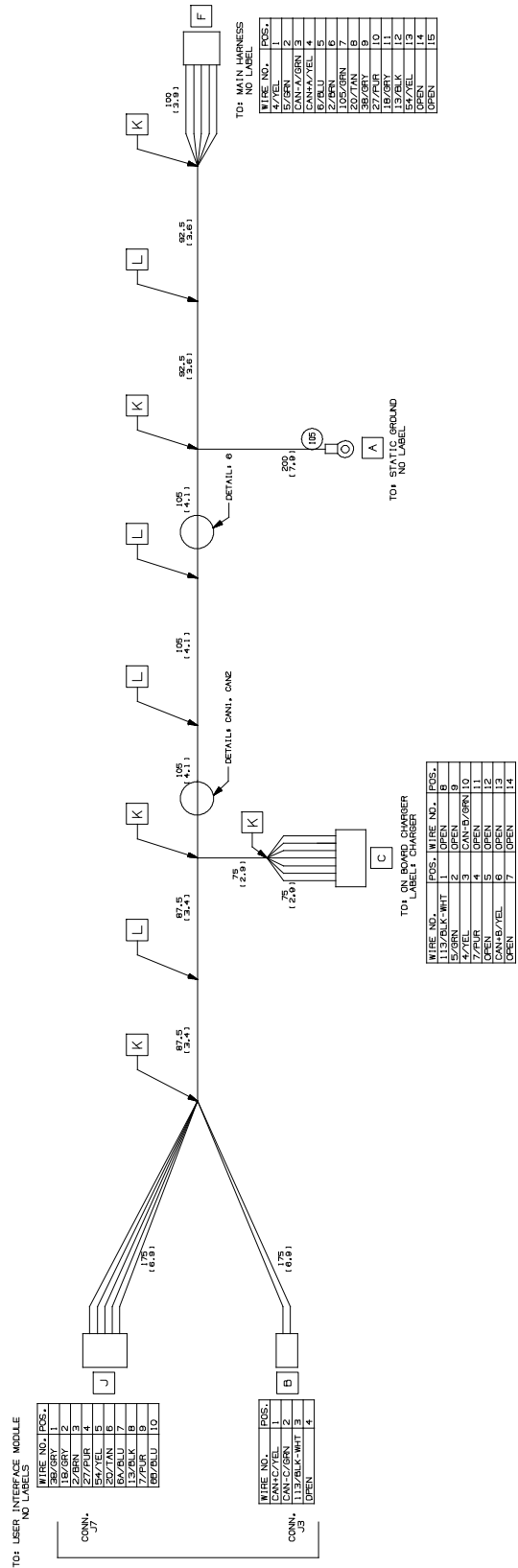
1073592



Part No.	Serial Number	Description	Qty.
1073592	(0000000-)	Harness, Ele [Vw, Op.Sta, Propel]	1

ELECTRICAL HARNESS, OPTIONS PUSH

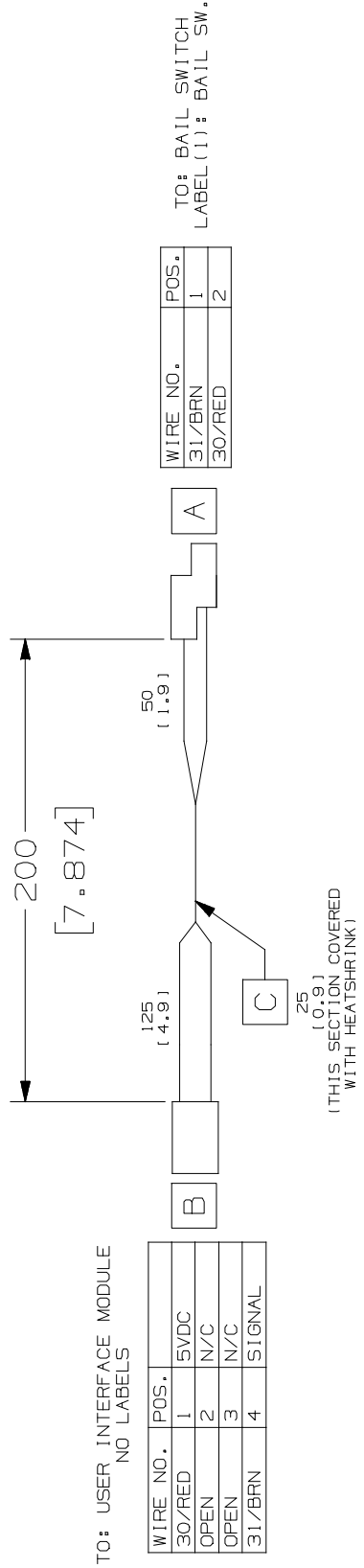
1073593



Part No.	Serial Number	Description	Qty.
1073593	(0000000-	) Harness, Ele [Vw, Op.Stat, Push]	1

ELECTRICAL HARNESS, BAIL SWITCH

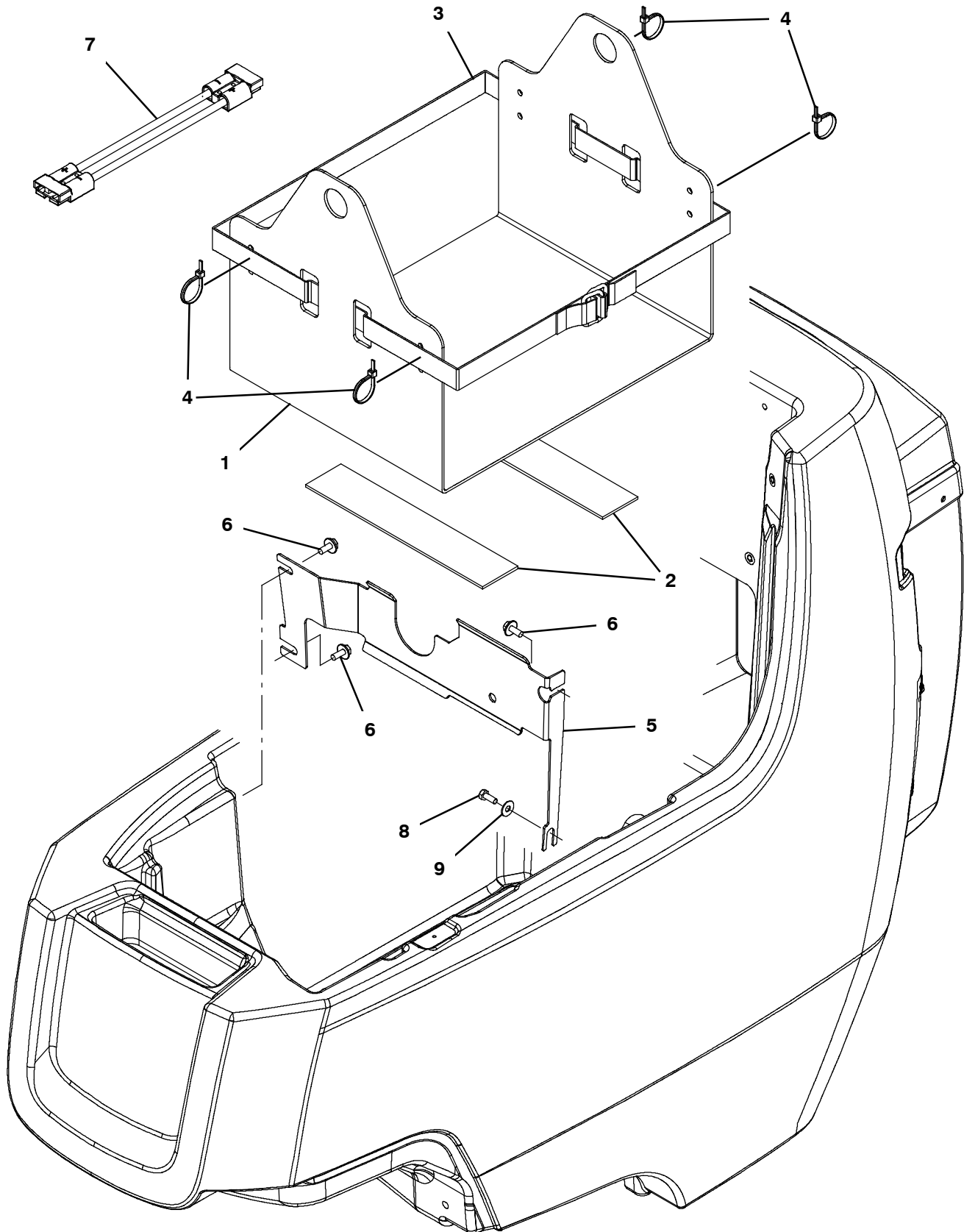
1072524



Part No.	Serial Number	Description	Qty.
1072524	(00000000-	) Harness, Ele [Bail Switch]	1

BATTERY LIFT OUT BOX KIT

355306



BATTERY LIFT OUT BOX KIT

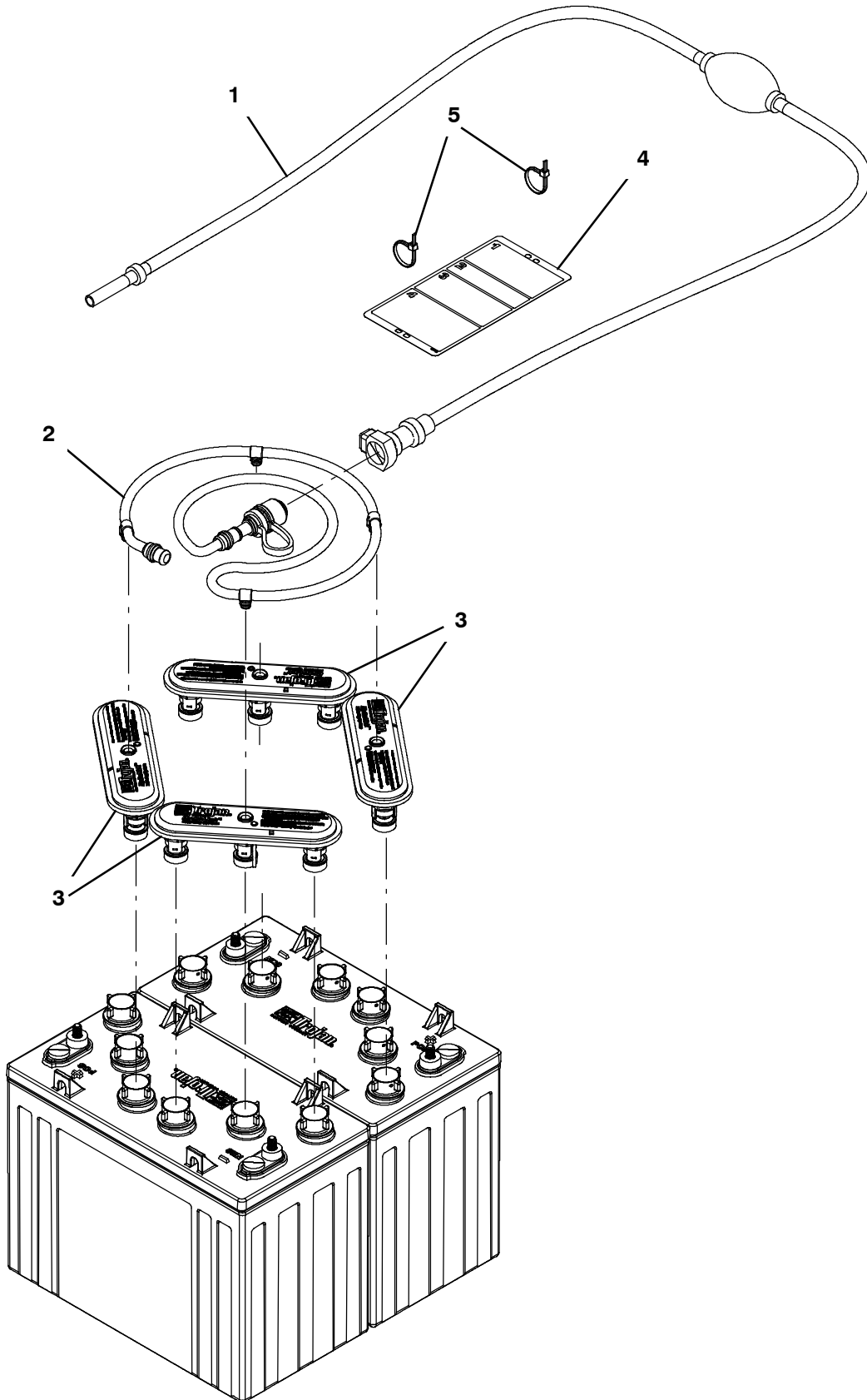
	Ref.	Part No.	Serial Number	Description	Qty.
▽		9014173	(10000000- 20000000)	Box Kit, Lift, Batt, Am [T300/E/Ss300] (Additional Battery Cable Kit May Also Be Required)	1
▲	1	1207816	(10000000- 20000000)	Box, Battery [Lift- Out]	1
▲	2	1212689	(10000000- 20000000)	Pad, Box, Battery	2
▲	3	1208697	(10000000- 20000000)	Strap, Pyp, Buckle, Friction	1
▲	4	130773	(10000000- 20000000)	Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	4
▲	5	1214509	(10000000- 20000000)	Bracket, Deflector, Battery	1
▲	6	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	3
▲	7	1074798	(10000000- 20000000)	Cable, Adaptor, Batt [Sb120- Sb50, Red] (Off- Board Charger Models Only)	1
▲	8	11329	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, NI, Ss	1
▲	9	01684	(10000000- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

HYDROLINK® BATTERY WATERING SYSTEM KIT

355316



HYDROLINK® BATTERY WATERING SYSTEM KIT

	Ref.	Part No.	Serial Number	Description	Qty.
▽		9010300	(10000000- 20000000)	Battery Fill Kit, 24v, Ci [Hydrolink] (For Use Only With 155AH Trojan Batteries)	1
▲	1	1058939	(10000000- 20000000)	Pump Kit, Fill, Battery	1
▲	2	1070394	(10000000- 20000000)	Tube, Water, Battery, 24vdc [Trojan]	1
▲	3	1204142	(10000000- 20000000)	Cap, Fill, Battery [Trojan]	4
▲	4	1071084	(10000000- 20000000)	Label, Tag, Battery [Hydrolink Watering]	1
▲	5	130773	(10000000- 20000000)	Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	2

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

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DOCUMENTATION GROUP

Ref.	Part No.	Serial Number	Description	Qty.
	9014511	(10000000- 20000000)	Manual, Parts [Speed Scrub 300]	1
	9014512	(10000000- 20000000)	Manual, Oprtr [Speed Scrub 300, En]	1
	9014513	(10000000- 20000000)	Manual, Oprtr [Speed Scrub 300, Es]	1
	9014514	(10000000- 20000000)	Manual, Oprtr [Speed Scrub 300, Fr]	1
	9014515	(10000000- 20000000)	Instr, Wall Chart [Speed Scrub 300]	1
	9014516	(10000000- 20000000)	Manual, Service [Speed Scrub 300, En]	1

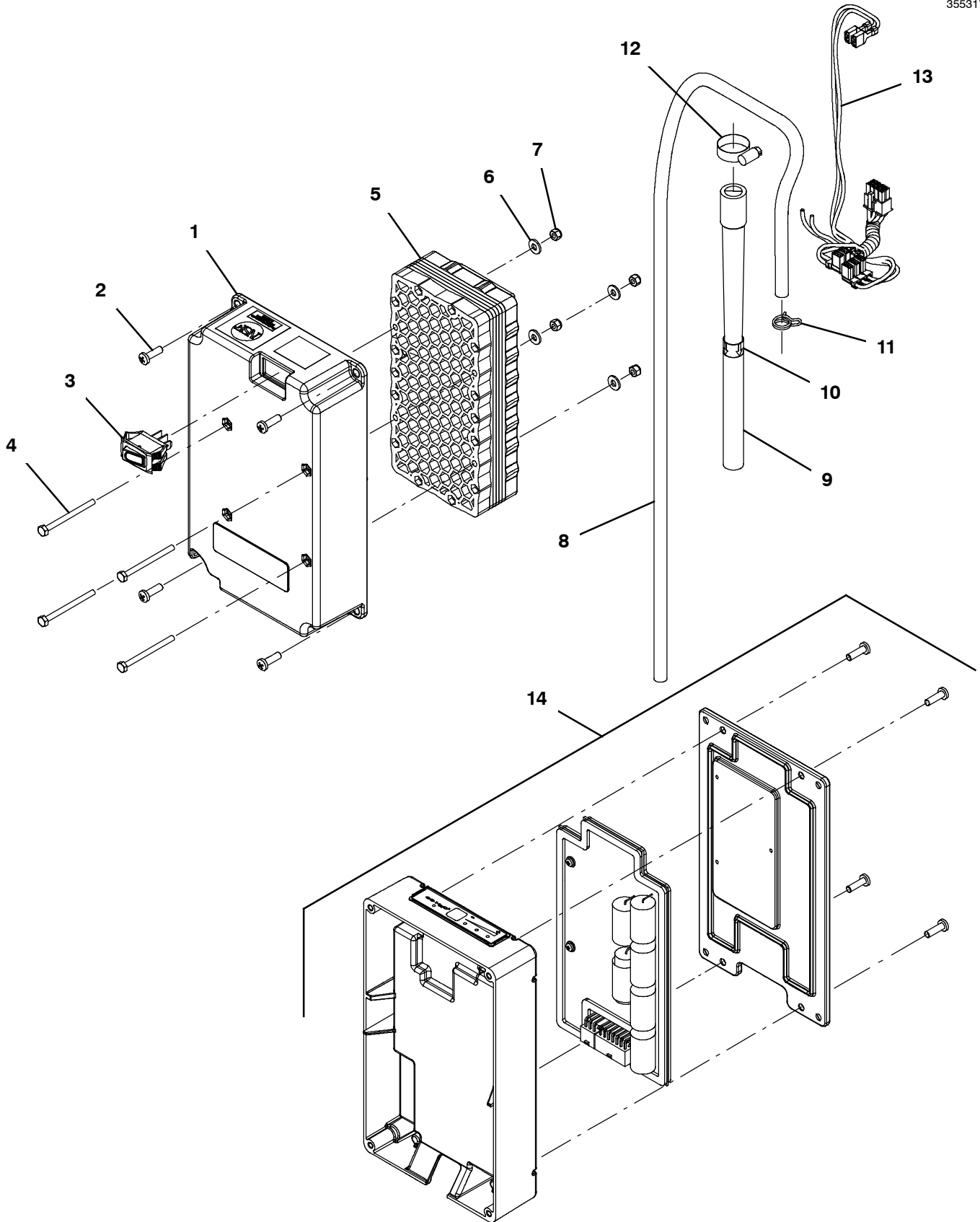


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ec- H2O NANOCLEAN MODULE BREAKDOWN

355317



ec- H2O NANOCLEAN MODULE BREAKDOWN

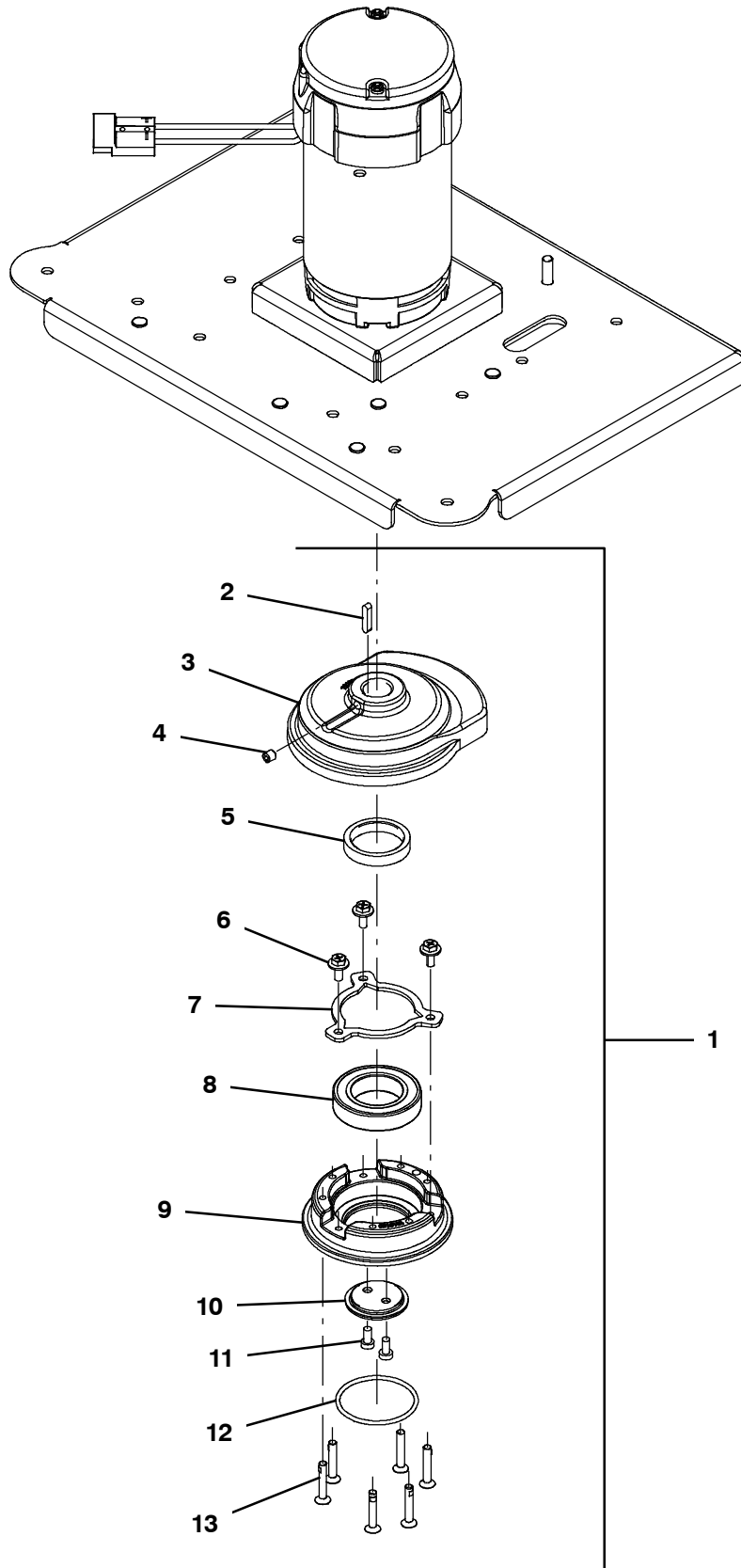
Ref.	Part No.	Serial Number	Description	Qty.
▽	9011810	(00000000-	) Module Kit, Replmt [Ec- H2o, B 02] (Includes ec- H2O NanoClean Cartridge)	1
▲▽	9014126	(00000000-	) Ec- H2o Nc Kit [Module B, Plumbing]	1
▲▲	1 1208823	(00000000-	) Housing, Module, Upper, Ec- H2o	1
▲▲	2 1015506	(00000000-	) Screw, Pan, Phl, M5 X 16, Tcut [Plastic]	4
▲▲	3 1044393	(00000000-	) Switch, Rocker, Spst, Mom	1
▲▲	4 32509	(00000000-	) Screw, Hex, M4 X 0.70 X 50, Ss	4
▲▲	5 1208164	(00000000-	) Electrode, 5 Plate, High Flow	1
▲▲	6 41579	(00000000-	) Washer, Flat, 08, Ss	4
▲▲	7 33932	(00000000-	) Nut, Hex, Lock, M4 X 0.70, NI, Ss	4
▲▲	8 1006415	(00000000-	) Hose, Afmkt, Pvc, Clr, 0.25id, 03ft	1
▲▲	9 1208526	(00000000-	) Hose, Molded, Bm08/Bm06	1
▲▲	10 1049637	(00000000-	) Label, Direction [Ec- H2o]	1
▲▲	11 613735	(00000000-	) Clamp, Hose, Wir, .40 - .42, Yel	1
▲▲	12 54333	(00000000-	) Clamp, Hose, Wormdrive, 0.31- 0.88d, .31w	1
▲▲	13 1073286	(00000000-	) Harness, Ele, Module B2 [Ec- H2o]	1
▲	14 9014127	(00000000-	) Controller Kit, Replmt [Ec- H2o Nc] (Includes ec- H2O NanoClean Cartridge)	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

ORBITAL HEAD ECCENTRIC DRIVE BREAKDOWN

355337



ORBITAL HEAD ECCENTRIC DRIVE BREAKDOWN

	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	9014175	(00000000-	) Kit, Eccentric Assy, [T300]	1
▲	2	1014328	(00000000-	) Key, Sq, 05mm X 05mm, 25mm	1
▲	3	N/A	(00000000-	) Balance, Eccentric, Step [Machined]	1
▲	4	N/A	(00000000-	) Screw, Set, M8 X 1.25 X 8, SS	1
▲	5	N/A	(00000000-	) Spacer, Eccentric	1
▲	6	N/A	(00000000-	) Screw, Hex, M6 X 1.00 X 16, Sems	3
▲	7	N/A	(00000000-	) Plate, Retainer, Brg, Outer	1
▲	8	1206608	(00000000-	) Bearing, Ball, 1.58b 2.68d 0.59w [2seal]	1
▲	9	N/A	(00000000-	) Housing, Bearing, Outer [Machined]	1
▲	10	N/A	(00000000-	) Retainer, Bearing, Inner [Qpq]	1
▲	11	N/A	(00000000-	) Screw, Soc, M6 X 1.00 X 12, 8.8, Low	2
▲	12	1208266	(00000000-	) O- Ring, 57.15 X 3.18, Nbr	1
▲	13	1212710	(00000000-	) Screw, Flt, Soc, M6 X 1.00 X 35, 10.9,NI	6

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

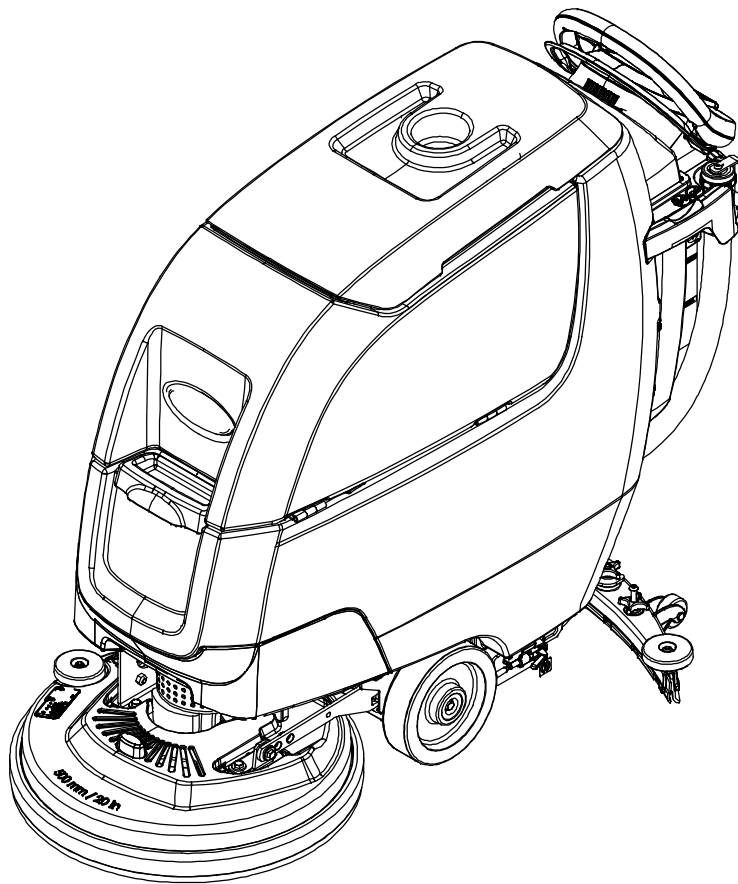


SPEED SCRUB® 300

AUTOMATIC FLOOR SCRUBBER



OPERATOR MANUAL



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9014512
Rev. 00 (03-2015)



INTRODUCTION

This manual is furnished with each new model. It provides necessary operation and maintenance instructions.



Read this manual completely and understand the machine before operating or servicing it.

This machine will provide excellent service. However, the best results will be obtained at minimum costs if:

- The machine is operated with reasonable care.
- The machine is maintained regularly - per the maintenance instructions provided.
- The machine is maintained with manufacturer supplied or equivalent parts.

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PROTECT THE ENVIRONMENT

Please dispose of packaging materials and used machine components such as batteries in an environmentally safe way according to your local waste disposal regulations.



Always remember to recycle.

INTENDED USE

The automatic floor scrubber is intended for commercial use, for example in hotels, schools, hospitals, factories, shops, offices and rental businesses. It is designed to scrub hard floor surfaces (concrete, tile, stone, synthetic, etc.) in an indoor environment. Do not use this machine on carpeted surfaces. Use only recommended pads/brushes and commercially available floor cleaning detergents. Do not use this machine other than described in this Operator Manual.

MACHINE DATA

Please fill out at time of installation for future reference.

Model No. - _____

Serial No. - _____

Installation Date - _____

UNCRATING MACHINE

Carefully check machine for signs of damage. Report damages at once to carrier. Contact distributor or Tennant for missing items.

To uncrate the machine, remove straps, wheel blocks and shipping brackets. Using the supplied ramp carefully back the machine off the pallet. Make sure scrub head is in the raised position.

ATTENTION: Do not remove machine from pallet without using ramp, machine damage may occur.

Tennant Company

PO Box 1452

Minneapolis, MN 55440

Phone: (800) 553- 8033 or (763) 513- 2850

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TABLE OF CONTENTS

OPERATION

IMPORTANT SAFETY INSTRUCTIONS	4
SAFETY LABELS	6
MACHINE COMPONENTS	7
MACHINE SYMBOLS	8
CONTROL PANEL COMPONENTS	8
INSTALLING BATTERIES	9
BATTERY PACK LIFT- OUT TRAY (Option) .	9
HOW THE MACHINE WORKS	10
BRUSH AND PAD INFORMATION	10
MACHINE SETUP	11
ATTACHING SQUEEGEE ASSEMBLY	11
INSTALLING BRUSH/PAD - 3 Lug Disk	11
INSTALLING BRUSH/PAD - Insta-Click Magnetic Disk (Option)	12
INSTALLING PAD - Orbital	13
INSTALLING CYLINDRICAL BRUSHES	13
FILLING SOLUTION TANK	14
ec-H2O NanoClean WATER CONDITIONING CARTRIDGE (ec-H2O model)	15
ACCESSORY RAILS	15
MACHINE OPERATION	16
PRE-OPERATION CHECK LIST	16
OPERATING MACHINE	16
WHILE OPERATING MACHINE	18
EMERGENCY SHUT-OFF BUTTON	19
BATTERY DISCHARGE INDICATOR	19
CIRCUIT BREAKER PANEL	19
HOUR METER	19
DRAINING TANKS	20
DRAINING RECOVERY TANK	20
DRAINING SOLUTION TANK	20
SERVICE INDICATOR CODES	21

MAINTENANCE

MAINTENANCE CHART	24
MACHINE MAINTENANCE	25
AFTER DAILY USE	25
AFTER WEEKLY USE	26
AFTER EVERY 50 HOURS OF USE	27
AFTER EVERY 100 HOURS OF USE	27
ELECTRIC MOTORS	27
BELTS	28
ORBITAL SCRUB HEAD ISOLATORS	28
BATTERIES	28
MAINTENANCE-FREE BATTERIES	28
FLOODED (WET) LEAD-ACID BATTERIES .	28
CHECKING CONNECTIONS / CLEANING ..	29
CHARGING BATTERIES	29
BATTERY CHARGER SETTINGS	30
HYDROLINK® BATTERY WATERING SYSTEM	32
SQUEEGEE BLADE REPLACEMENT	33
ec-H2O NanoClean WATER CONDITIONING CARTRIDGE REPLACEMENT	34
LOADING/UNLOADING MACHINE FOR TRANSPORTING	35
STORING MACHINE	35
Freeze Protection	35
TROUBLESHOOTING	36
SPECIFICATIONS	
GENERAL MACHINE DIMENSIONS/CAPACITIES/PERFORMANCE ..	38
MACHINE DIMENSIONS	40

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

The following warning precautions are used throughout this manual as indicated in their description:

⚠ WARNING: To warn of hazards or unsafe practices which could result in severe personal injury or death.

FOR SAFETY: To identify actions which must be followed for safe operation of equipment.

The following information signals potentially dangerous conditions to the operator. Know when these conditions can exist. Locate all safety devices on the machine. Report machine damage or faulty operation immediately.

⚠ WARNING: To Reduce the Risk of Fire, Explosion, Electric Shock or Injury:

- Read manual before operating machine.
- Do not use or pick up flammable materials.
- Do not use near flammable liquids, vapors or combustible dusts.

This machine is not equipped with an explosion proof motor. The electric motor will spark upon start up and during operation which could cause a flash fire or explosion if machine is used in an area where flammable vapors/liquids or combustible dusts are present.

- Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away when charging.
- Disconnect battery cables and charger cord before cleaning and servicing machine.
- Do not charge batteries with damaged cord. Do not modify plug.

If the charger supply cord is damaged or broken, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

- Do not use outdoors. Store indoors.
- Spinning pad/brush, keep hands away.

⚠ WARNING: Magnetic Field Hazard. Magnetic pad driver/brush can be harmful to pacemaker wearers or medical implants.

FOR SAFETY:

1. Do not operate machine:

- Unless trained and authorized.
- Unless operator manual is read and understood.
- Unless mentally and physically capable of following machine instructions.
- Under the influence of alcohol or drugs.
- While using a cell phone or other types of electronic devices.
- If not in proper operating condition.
- In outdoor areas. This machine is for indoor use only.
- In areas where flammable vapors/liquids or combustible dusts are present.
- With pads or accessories not supplied or approved by Tennant. The use of other pads may impair safety.
- In areas with possible falling objects.
- In areas that are too dark to safely see the controls or operate machine.

2. Before operating machine:

- Check machine for fluid leaks.
- Make sure all safety devices are in place and operate properly.

3. When operating machine:

- Use only as described in this manual.
- Report machine damage or faulty operation immediately.
- Wear closed-toe, non-slip work shoes.
- Reduce speed when turning.
- Go slowly on inclines and slippery surfaces.
- Do not scrub on inclines that exceed 9% grade or transport on inclines that exceed 21% grade.
- Follow site safety guidelines concerning wet floors.
- Follow mixing, handling and disposal instructions on chemical containers.
- Do not carry passengers on machine.
- Use care when reversing machine.
- Keep children and unauthorized persons away from machine.
- Do not allow machine to be used as a toy.

4. **Before leaving or servicing machine:**
 - Stop on level surface.
 - Set the parking brake, if equipped.
 - Turn off machine and remove key.
5. **When servicing machine:**
 - Disconnect battery connection and charger cord before working on machine.
 - All work must be done with sufficient lighting and visibility.
 - All repairs must be performed by trained personnel.
 - Use Tennant supplied or approved replacement parts.
 - Do not modify the machine from its original design.
 - Do not jack up machine.
 - Avoid moving parts. Do not wear loose clothing or jewelry and secure long hair.
 - Do not disconnect the off-board charger's DC cord from the machine's receptacle when the charger is operating. Arcing may result. If the charger must be interrupted during charging cycle, disconnect the AC power supply cord first.
 - Do not use incompatible battery chargers as this may damage battery packs and potentially cause a fire hazard.
 - Inspect charger cord regularly for damage.
 - Keep work area well ventilated.
 - Avoid contact with battery acid.
 - Keep all metal objects off batteries.
 - Do not power spray or hose off machine.
 - Use a hoist or adequate assistance when lifting batteries.
 - Battery installation must be done by trained personnel.
 - Wear personal protection equipment as needed and where recommended in this manual.
6. **When loading/unloading machine onto/off truck or trailer:**
 - Drain tanks before loading machine.
 - Use a ramp, truck or trailer that can support the machine weight and operator.
 - Do not operate the machine on a ramp incline that exceeds a 21% grade level.
 - Use a winch if ramp incline exceeds a 21% grade level.
 - Lower the scrub head and squeegee before tying down machine.
 - Turn machine off and remove key.
 - Set parking brake (if equipped).
 - Block machine wheels.
 - Use tie-down straps to secure machine.



For Safety: wear protective gloves.



For Safety: wear eye protection.

OPERATION

SAFETY LABELS

The safety labels appear on the machine in the locations indicated. Replace labels if they are missing or become damaged or illegible.

WARNING LABEL - Located on recovery tank cover.

⚠ WARNING	⚠ AVERTISSEMENT	⚠ ADVERTENCIA
 <p>TO REDUCE THE RISK OF FIRE, EXPLOSION, ELECTRICAL SHOCK, OR INJURY:</p> <ul style="list-style-type: none"> • Read manual before operating machine. • Do not use or pick up flammable materials. • Do not use near flammable liquids, vapors or combustible dusts. • Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away when charging. • Disconnect battery cables and charge plug before servicing machine. • Do not charge batteries with damaged cord. • Do not use outdoors. Store indoors. 	<p>POUR RÉDUIRE LES RISQUES D'INCENDIE, L'EXPLOSION, DE CHOC ELECTRIQUE OU DE LESSURE:</p> <ul style="list-style-type: none"> • Lisez le manuel avant d'utiliser la machine. • N'utilisez pas ou ne ramassez pas de matériaux inflammables. • N'utilisez pas près de liquides, vapeurs ou poussières inflammables. • Les batteries émettent de l'hydrogène gazeux. Risque d'incendie et d'explosion. Évitez toute étincelle et toute flamme nue lors de la charge des batteries. • Débranchez les câbles des batteries et le cordon du chargeur avant l'entretien de la machine. • Ne chargez pas les batteries avec un cordon endommagé. • N'utilisez pas à l'extérieur. Entrez-les à l'intérieur. 	<p>PARA REDUCIR EL RIESGO DE INCENDIO, EXPLOSION, CHOQUE ELECTRICO, O LESIONES:</p> <ul style="list-style-type: none"> • Lea el manual antes de utilizar la máquina. • No utilice ni recoja materiales inflamables. • No utilice la máquina cerca de líquidos, polvos o vapores inflamables. • Las baterías emiten hidrógeno. Peligro de incendio o explosión. Mantenga la máquina alejada de chispas y llamas cuando se esté cargando. • Desconecte los cables de la batería antes de realizar el servicio a la máquina. • No cargue las baterías si el cable está dañado. • No utilice la máquina al aire libre. Guárdela en un lugar cerrado.

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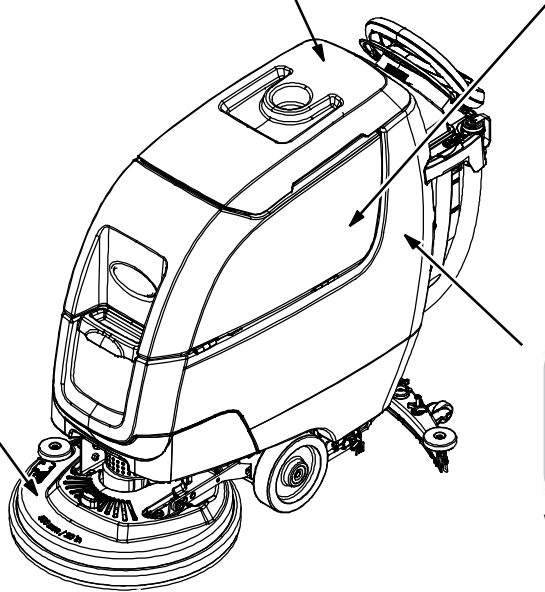
WARNING LABEL - Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away when charging.

Located on bottom side of recovery tank.



WARNING LABEL - Spinning pad. Keep hands away.

Located on disk scrub head model.



WARNING LABEL - Electrical hazard. Disconnect battery cables before servicing machine.

Located on circuit breaker panel.



WARNING LABEL - Spinning brush. Keep hands away.

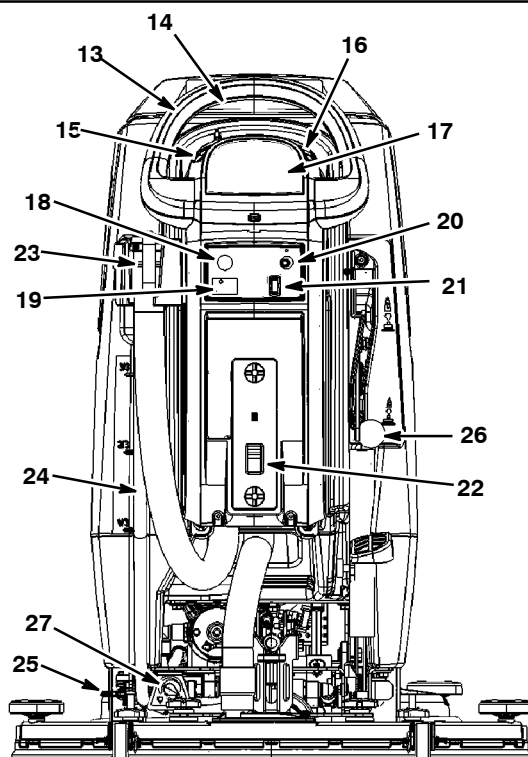
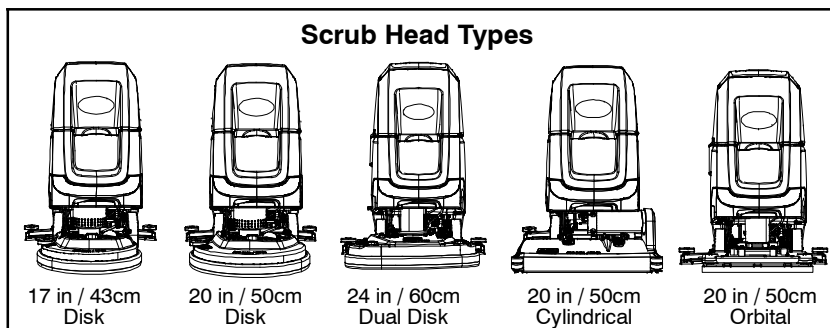
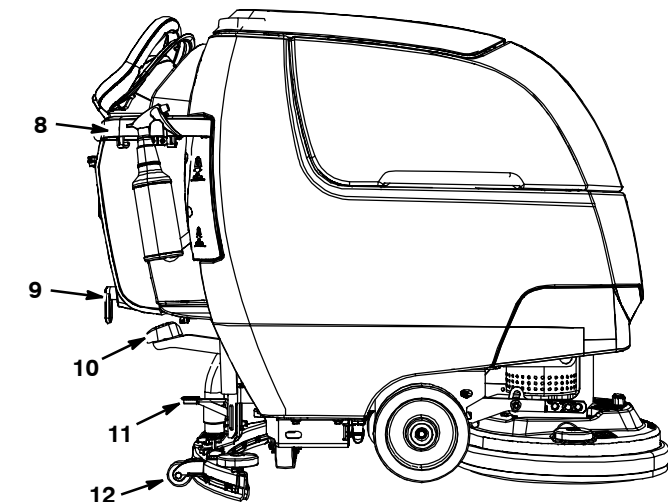
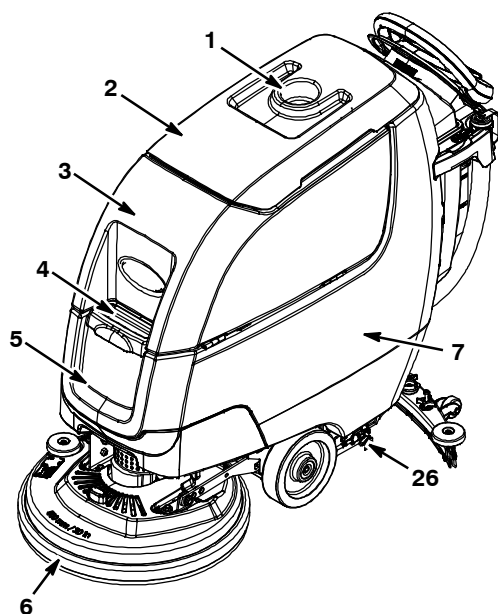
Located on cylindrical scrub head model.



WARNING LABEL - Magnetic Field Hazard. Magnetic pad driver/brush can be harmful to pacemaker wearers or medical implants.

Located on Insta-Click magnetic pad driver/brush.






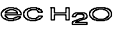
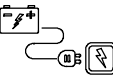








MACHINE COMPONENTS



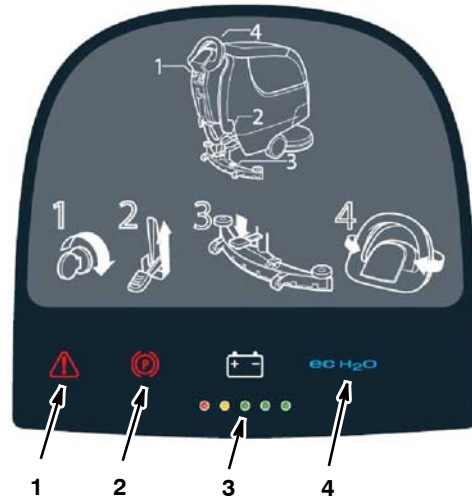
- 1. Cup holder/tray
- 2. Recovery tank lid
- 3. Recovery tank
- 4. Solution tank fill-port
- 5. Solution tank
- 6. Scrub head
- 7. Battery compartment
- 8. Accessory rail(s)
- 9. On-board battery charger cord hooks
- 10. Scrub head lift pedal
- 11. Squeegee foot pad
- 12. Squeegee assembly
- 13. Control handle
- 14. Control handle start bail
- 15. Speed control knob (drive model)
- 16. Forward/Reverse lever (drive model)
- 17. Control panel display
- 18. Emergency stop button (option)
- 19. Hour meter
- 20. Key switch
- 21. ec-H2O on/off switch (option)
- 22. Off-board battery charger receptacle
- 23. Recovery tank drain hose
- 24. Solution tank level/drain hose
- 25. Parking brake (option)
- 26. Dual down pressure lever (option)
- 27. Solution flow control knob

OPERATION

MACHINE SYMBOLS

	Fast speed (drive model)
	Slow speed (drive model)
	Forward / Reverse (drive model)
	On
	Off
	ec-H2O scrubbing (option)
	Battery charge
	Do not lift by accessory rails
	No step
	Dual down pressure
	Parking brake (option)
	No detergent (ec-H2O option)
	Water temperature (ec-H2O option)
	Solution flow
	No Solution flow
	Circuit breaker

CONTROL PANEL COMPONENTS



1. **Service indicator** - Lights up when a machine or charger fault is detected.
2. **Parking brake indicator (option)** - Lights up when parking brake lever is engaged. To turn off indicator, disengage parking brake lever near left rear wheel.
3. **Battery discharge indicator (BDI)** - The battery discharge indicator serves two functions. In normal scrub mode it displays the charge level of the batteries. It also, in conjunction when the service indicator is flashing, provides specific LED codes when a machine or charger fault is detected.
4. **ec-H2O indicator (Option)** - Lights up blue when ec-H2O system is activated and operating normally.

INSTALLING BATTERIES

⚠ WARNING: Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away when charging.

FOR SAFETY: When servicing machine, wear appropriate personal protection equipment as needed. Avoid contact with battery acid.

BATTERY SPECIFICATIONS

Two 12 volt deep-cycle batteries.

Contact distributor or Tennant for battery recommendations.

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

1. Lift the recovery tank to access the battery compartment (Figure 1).

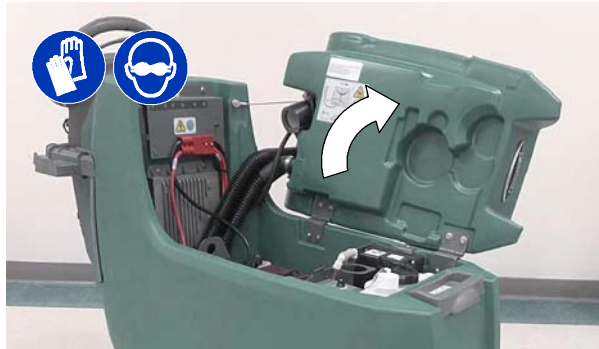


FIG. 1

2. With adequate assistance, carefully install the batteries into the battery compartment. Arrange the batteries as shown (Figure 2).

FOR SAFETY: When servicing machine, use a hoist or adequate assistance when lifting batteries.

3. Using the supplied battery post boots, connect the cables to the battery posts as shown (Figure 2). Connect the machine's black (-) battery cable last. Use insulated tools when working near batteries.

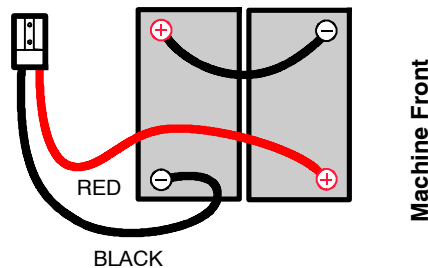


FIG. 2

IMPORTANT: Make sure that the machine's battery charger is properly set before charging. See BATTERY CHARGER SETTINGS.

BATTERY PACK LIFT-OUT TRAY (Option)

Models equipped with the optional battery lift-out tray for quick or frequent battery pack exchange.

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

⚠ WARNING: Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away when charging.

1. Disconnect the battery cable connection at machine (Figure 3).



FIG. 3

FOR SAFETY: When servicing machine, wear appropriate personal protection equipment as needed. Avoid contact with battery acid.

2. Using an approved lift strap that supports the weight of battery pack, connect the strap to the two lift brackets as shown. Using a lift hoist rated to handle the weight of the battery pack, carefully lift the battery packs to and from machine. Keep one hand on the battery lift-out tray when lifting for stability (Figure 4).

Before lifting battery pack, make sure the batteries are secured to the battery lift-out tray with the supplied battery strap as shown (Figure 4).



FIG. 4

3. Reconnect the battery cable connection after installing battery pack.

HOW THE MACHINE WORKS

Conventional scrubbing:

When using the conventional scrubbing mode, water and detergent mixture from the solution tank flows to the floor and the rotating brush(es)/pad(s) scrub the floor clean. As the machine moves forward, the squeegee with vacuum suction picks up the dirty solution from the floor into the recovery tank.

ec-H2O NanoClean Technology (option):

When using the ec-H2O NanoClean technology, normal water passes through a module where it is electrically converted into a cleaning solution. The electrically converted water attacks the dirt, allowing the machine to easily scrub away the suspended soil. The converted water then returns to normal water in the recovery tank.

BRUSH AND PAD INFORMATION

For best cleaning results use the appropriate brush or pad for your cleaning application. Listed below are brushes and pads and the applications for which each is best suited.

NOTE: The amount and type of soilage play an important role in determining the type of brush or pad to use. Contact a Tennant representative for specific recommendations.

Soft nylon bristle scrub brush (White) -

Recommended for cleaning coated floors without removing finish. Cleans without scuffing.

Polypropylene bristle scrub brush (Black) -

This general purpose polypropylene bristle scrub brush is used for scrubbing lightly compacted soilage. This brush works well for maintaining concrete, wood and grouted tile floors.

Super abrasive bristle scrub brush (Gray) -

Nylon fiber impregnated with abrasive grit to remove stains and soilage. Strong action on any surface. Performs well on buildup, grease, or tire marks.

Polishing pad (White) -

Used to maintain highly polished or burnished floors.

Buffing pad (Red) - Used for light duty scrubbing without removing floor finish.

Scrubbing pad (Blue) - Used for medium to heavy-duty scrubbing. Removes dirt, spills, and scuffs and leaves surface clean ready for recoating.

Stripping pad (Brown) - Used for stripping of floor finish to prepare the floor for recoating.

Heavy duty stripping pad (Black) - Used for aggressive stripping of heavy finishes/sealers, or very heavy duty scrubbing.

Surface preparation pad (Maroon) - Used for very aggressive chemical free removal of floor finish to prepare the floor for re-coating

MACHINE SETUP

ATTACHING SQUEEGEE ASSEMBLY

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

1. Lift the squeegee mount bracket to the raised position. Place toe under pedal to lift (Figure 5).

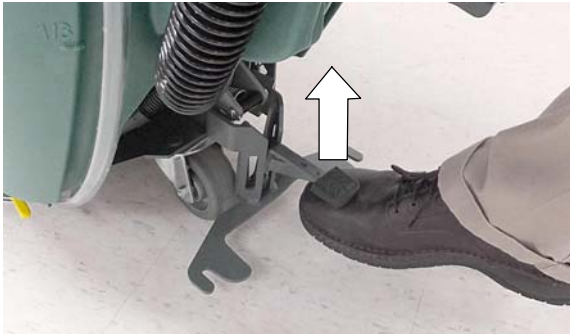


FIG. 5

2. Mount the squeegee assembly to the squeegee mount bracket (Figure 6). Tighten knobs to secure squeegee assembly to bracket.

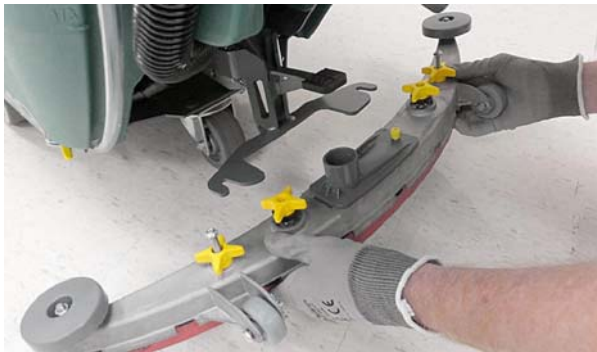


FIG. 6

3. Connect the vacuum hose to the squeegee assembly (Figure 7).

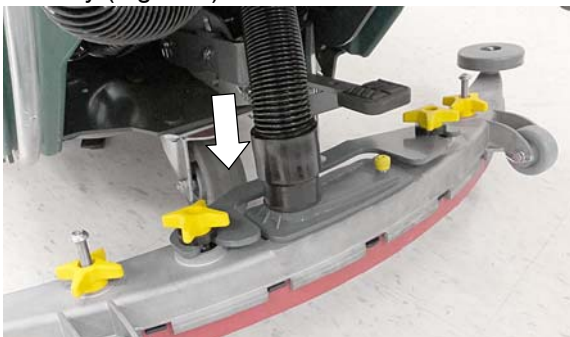


FIG. 7

INSTALLING BRUSH/PAD - 3 Lug Disk

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

1. Step down on the scrub head lift pedal to raise the scrub head off the floor (Figure 8).



FIG. 8

2. Attach the pad to the pad driver before installing the disk (Figure 9). Secure pad with centerlock.

FOR SAFETY: Do not operate machine with pads or accessories not supplied or approved by Tennant. The use of other pads may impair safety.

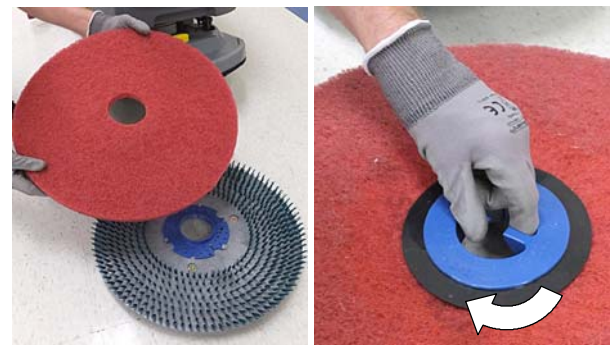


FIG. 9

3. Single disk model - Position the three lugs into the motor hub slots and give the pad driver/brush a quick counter-clockwise turn to engage hub (Figure 10). View through the scrub head window to align lugs.



FIG. 10

OPERATION

Dual disk model - Turn the brush motor hub until the lug slot with spring clip is visible. Position the three lugs into the motor hub slots and give the pad driver/brush a quick turn towards the spring clip (Figure 11). View through the scrub head window to align lugs.

NOTE: The left and right disks engage the hubs in opposite directions.

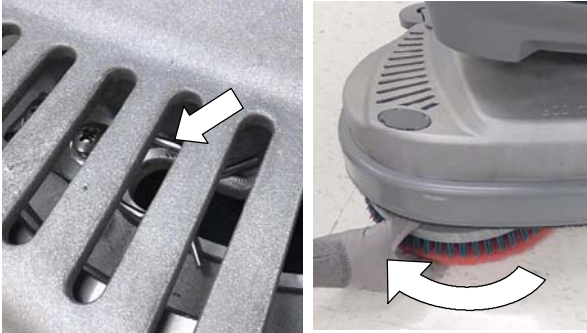


FIG. 11

4. Single disk model - To remove the pad driver/brush, press down on the plunger and turn the pad driver/brush clockwise (Figure 12).



FIG. 12

Dual disk model - To remove the pad driver/brush, grip the disk and give it a quick turn in the direction as shown (Figure 13).

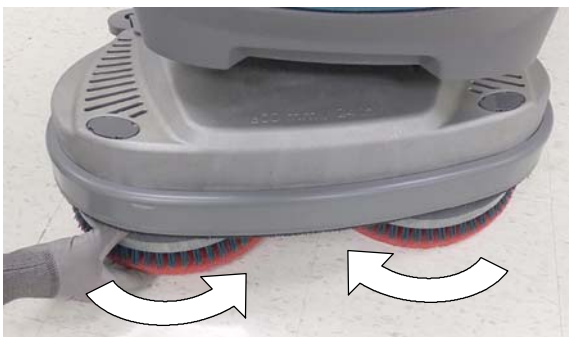


FIG. 13

INSTALLING BRUSH/PAD - Insta-Click Magnetic Disk (Option)

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

⚠ WARNING: Magnetic Field Hazard. Magnetic pad driver/brush can be harmful to pacemaker wearers or medical implants.

1. Step down on the scrub head lift pedal to raise the scrub head off the floor (Figure 14).



FIG. 14

2. Attach the pad to the pad driver before installing the driver (Figure 15). Secure pad with centerlock.

FOR SAFETY: Do not operate machine with pads or accessories not supplied or approved by Tennant. The use of other pads may impair safety.

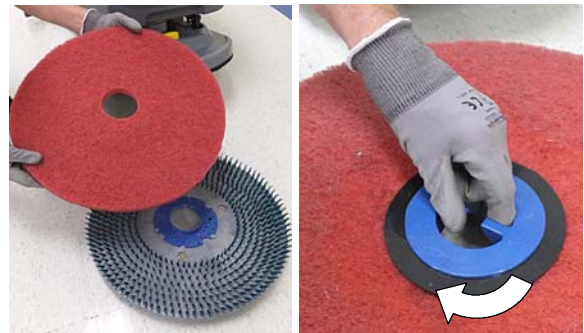


FIG. 15

3. Place the pad driver/brush under the scrub head and lift into position. The Insta-Click pad driver/brush will automatically click into position (Figure 16).



FIG. 16

- To remove the pad driver(s)/brush(es), raise the scrub head and press the yellow plunger button with foot or hand (Figure 17). Pad will drop to floor.

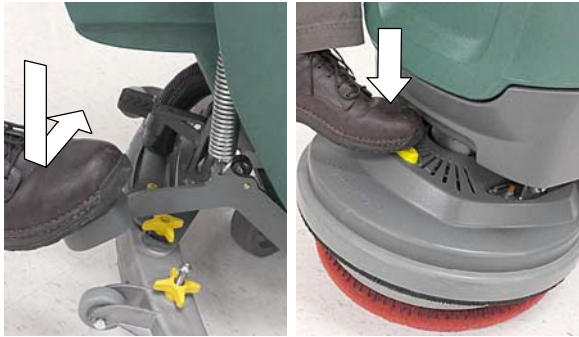


FIG. 17

INSTALLING PAD - Orbital

For best cleaning performance and to avoid damaging the pad driver plate or floor surface, always use backer pad with work pads (Figure 18).

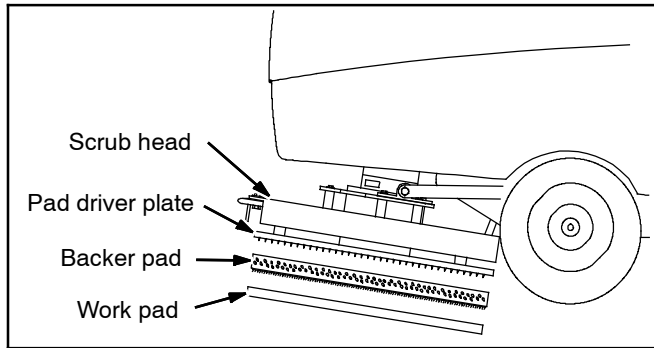


FIG. 18

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

- Step down on the scrub head lift pedal to raise the scrub head off the floor (Figure 19).



FIG. 19

- Install the backer pad, retaining strips facing outward, to bottom of scrub head (Figure 20). Make sure pad is centered on scrub head.



FIG. 20

- Attach the work pad to the backer pad (Figure 21).



FIG. 21

INSTALLING CYLINDRICAL BRUSHES

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

- Step down on the scrub head lift pedal to raise the scrub head off the floor (Figure 22).



FIG. 22

OPERATION

2. Remove the debris tray by sliding it out from the scrub head (Figure 23).

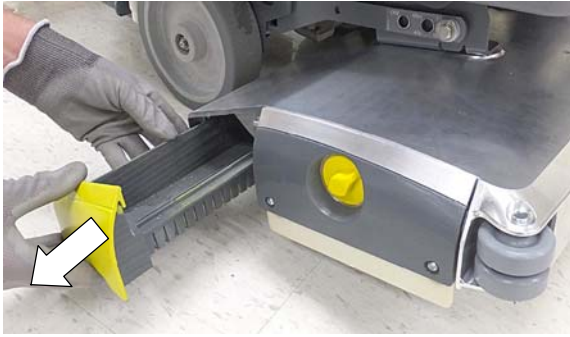


FIG. 23

3. Remove the idler plate from the scrub head by unscrewing the yellow knob (Figure 24).



FIG. 24

4. Slide the brushes into the scrub head and connect the slotted ends of each brush into the drive hubs (Figure 25).

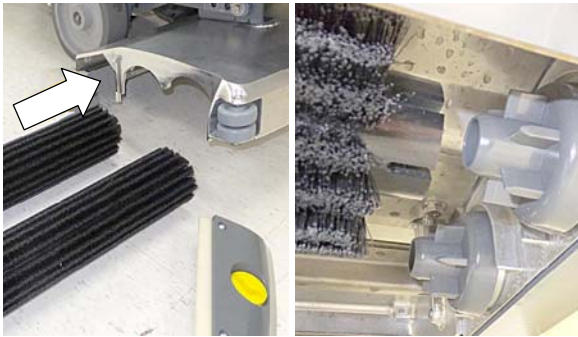


FIG. 25

5. Connect the idler plate to the brush ends and reattach the idler plate. Make sure the idler plate hooks are engaged before tightening knob (Figure 26).



FIG. 26

6. Replace debris tray.

FILLING SOLUTION TANK

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

Remove the solution tank lid and fill the solution tank. Stop filling tank when the level reaches the "3/3" mark on the solution tank drain hose indicator (Figure 27).

ec-H2O Scrubbing - Only use cool clean water (less than 70°F/21°C). Do not use hot water or add conventional floor cleaning detergents. An ec-H2O system fault will occur if cleaning detergents are added.

Conventional Scrubbing - Use hot water (140°F/60°C maximum). Pour a recommended cleaning detergent into the solution tank according to mixing instructions on the container.

NOTE: Do not use the ec-H2O system when there are conventional cleaning detergents in the solution tank. Drain, rinse, and refill the solution tank with clear cool water before operating the ec-H2O system.

⚠ WARNING: Flammable materials can cause an explosion or fire. Do not use flammable materials in tank(s).

ATTENTION: For Conventional Scrubbing, only use commercially approved cleaning detergents. Machine damage due to improper detergent usage will void the manufacturer's warranty.



FIG. 27

The solution tank fill- port is equipped with two hose clips to hold hose while filling. The two clips are different hose diameter sizes (Figure 28).

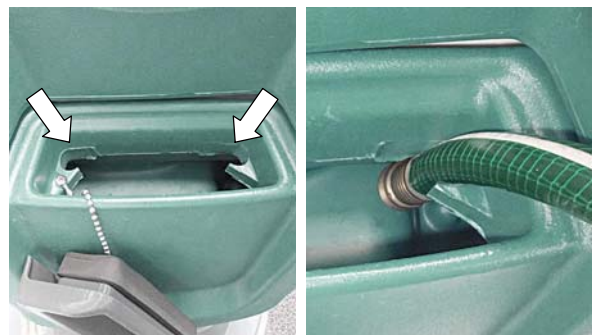


FIG. 28

ec-H2O NanoClean WATER CONDITIONING CARTRIDGE (ec-H2O model)

The ec-H2O system is equipped with a water conditioning cartridge (Figure 29). The cartridge is designed to protect the machine's plumbing system from potential scaling.

The cartridge is required to be replaced when it reaches its maximum water usage or expiration time of when the cartridge was activated, whichever ever comes first.

Depending on machine usage a new cartridge can last anywhere from 12 to 24 months.

The control panel will signal a code when it's time to replace cartridge. See SERVICE INDICATOR CODES for further details.



FIG. 29

All cartridges are labeled with a manufacture date. The shelf-life of an un-installed cartridge is one year from manufacture date. For new cartridge replacement, the ecH2O module timer must be reset. See ec-H2O NanoClean WATER CONDITIONING CARTRIDGE REPLACEMENT.

ATTENTION: During first time use and after replacing the water conditioning cartridge, the ec-H2O system will automatically override the selected solution flow rate for up to 75 minutes.

ACCESSORY RAILS

The machine is equipped with one or two accessory rails which straddle the control console. The left side rail also serves as the recovery tank and solution tank drain hose holder.

The accessory rails are designed to store the squeegee assembly, spray bottles and other accessory items (Figure 30).



FIG. 30

The J-hooks on the underside of the right side rail allow debris bag storage (Figure 31).



FIG. 31

ACCESSORY CLIPS (Option) - If model is equipped with the optional accessory clips, the clips easily clip on and off the rails for additional accessory storage (Figure 32).

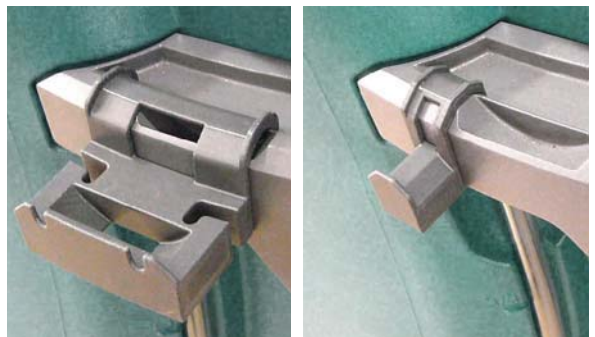


FIG. 32

OPERATION

To install the accessory clips, hook the clip over the rail and push downward until it snaps into position. To remove the accessory clip, reach under the clip and carefully pull the latch tab downward to release from rail. (Figure 33)

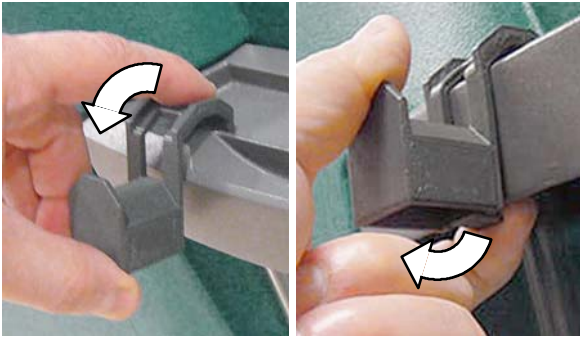


FIG. 33

The optional accessory clips allow for storage of wet floor signs, spray bottles, squeegee assembly, debris bags and other items (Figure 34).



FIG. 34



ATTENTION: Do not use the accessory rails to lift machine, damage may occur.



ATTENTION: Do not step on accessory rails, damage may occur.

MACHINE OPERATION

FOR SAFETY: Do not operate machine unless operator manual is read and understood.

PRE-OPERATION CHECK LIST

- Sweep area and remove any obstructions.
- Check brushes/pads for wear and damage.
- Check squeegee blades for wear and damage.
- Confirm recovery tank empty and screen and debris tray is clean.
- Check scrub head skirt for wear and damage.
- Cylindrical brush model - confirm scrub head debris tray is empty and clean.
- ec-H₂O Scrubbing: Confirm solution tank is filled with clear cool water only.
- ec-H₂O Scrubbing: Ensure all conventional cleaning agents/restorers are drained and rinsed from solution tank.
- Check machine for proper operation.

OPERATING MACHINE

1. Release the parking brake lever, if equipped (Figure 35)
2. Turn the key to the on (I) position (Figure 35).



FIG. 35

3. ec-H₂O models - The ec-H₂O system will automatically turn on at start up. To turn off the ec-H₂O system, press the ec-H₂O switch located below the key switch (Figure 36).

ATTENTION: During first time use and after replacing the water conditioning cartridge, the ec-H₂O system will automatically override the selected solution flow rate for up to 75 minutes.

ATTENTION: If cleaning detergent is accidentally cycled through ec-H2O system, immediately turn the ec-H2O system off. Drain solution tank, refill with cool water and operate the ec-H2O system to flush out detergent.

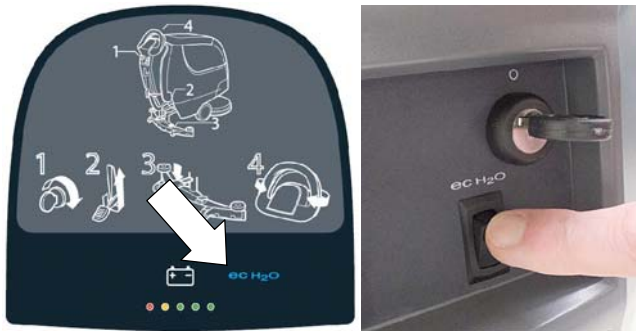


FIG. 36

ec-H2O INDICATOR	CONDITION
Solid blue	Normal operation
Blinking blue/red	Water conditioning cartridge expired. Replace cartridge.
Solid or blinking red	See Service Indicator Codes.

- Lower the scrub head to the floor by stepping on the scrub head lift pedal as shown (Figure 37).



FIG. 37

- Lower the squeegee assembly to floor by stepping on foot pad as shown (Figure 38). To raise squeegee assembly, place toe under foot pad and lift. The vacuum motor will start when squeegee assembly is lowered.

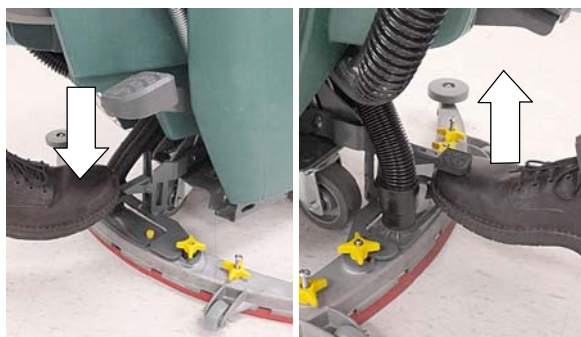


FIG. 38

- Drive models - push the directional lever to the forward position to go forward (Figure 39). To reverse the machine pull the directional lever backwards.



FIG. 39

- To begin scrubbing, pull the start bail (Figure 40).



FIG. 40

- Drive models - Adjust the scrubbing speed by turning the speed dial to the desired speed (Figure 41).

Push models - Slowly push the machine forward. The rotating brush(es) will help assist the machine forward.



FIG. 41

OPERATION

9. To adjust the solution flow rate when ec-H₂O scrubbing, press the solution flow button located on the ec-H₂O module (Figure 42). One LED= low, two LED's=medium, and three LED's= high.



FIG. 42

10. To adjust the solution flow rate when conventional scrubbing, turn the solution flow control knob located underneath machine (Figure 43).

NOTE: The solution flow control knob is only functional when conventional scrubbing.



FIG. 43

11. Speed Scrub 300 Option - When extra brush pressure is needed for heavily soiled areas lift the down pressure lever (Figure 44).

NOTE: Release the down pressure level when raising scrub head.



FIG. 44

12. To stop scrubbing, release the start bail and raise the scrub head and squeegee assembly off floor. Turn key off and set parking brake, if equipped.

WHILE OPERATING MACHINE

⚠ WARNING: Flammable materials materials or reactive metals can cause an explosion or fire. Do not pick up.

1. Overlap each scrub path by 2 inches (5 cm).
2. Keep machine moving to prevent damage to floor finish.
3. Wipe squeegee blades with a cloth if blades leave streaks.
4. Avoid bumping the machine into posts and walls.

FOR SAFETY: When operating machine, do not scrub on inclines that exceed 9% grade or transport on inclines that exceed 21% grade.

5. Pour a recommended foam control solution into the recovery tank if excessive foam appears.

ATTENTION: Foam buildup will not activate the float shut-off screen, vacuum motor damage will result.

6. Use the double scrubbing method for heavily soiled areas. First scrub the area with the squeegee up, let solution set for 3-5 minutes, then scrub the area a second time with squeegee down.
7. Orbital Scrub Head Model - Use caution when working near the tile cove (Figure 45) and floor mounted fixtures such as pedestal sinks and other breakable items. Keep the metal scrub head edge away to avoid possible damage.

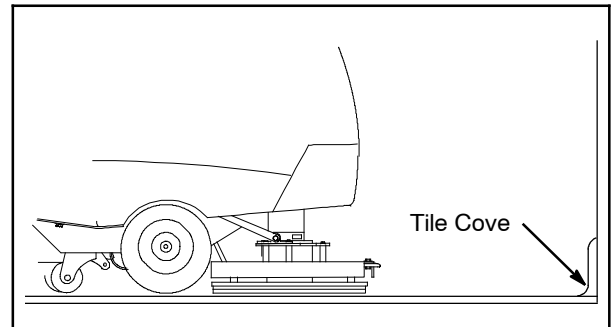


FIG. 45

8. When leaving the machine unattended, remove the key and set the parking brake, if equipped.
9. Do not operate machine in areas where the ambient temperature is above 110°F/43°C or below freezing 32°F/0°C.

EMERGENCY SHUT-OFF BUTTON (Drive models)

Push the emergency shut-off button in the event of an emergency (Figure 46). This red button shuts off all power to machine. To regain power, turn the button clockwise and restart the key.

Only use this button in the event of an emergency. It is not intended for routine machine shutdown.



FIG. 46

BATTERY DISCHARGE INDICATOR

The battery discharge indicator (BDI) displays the charge level of the batteries while the machine is operating. When the batteries are fully charged, all five indicators are lit (Figure 47). When the discharge level reaches the red light, stop scrubbing and recharge the batteries. If the red light begins to flash, the scrubbing function will automatically shut off to protect the batteries from total discharge. Drive Model: The machine will still propel when the red light is flashing, this will allow user to transport machine to charging station.

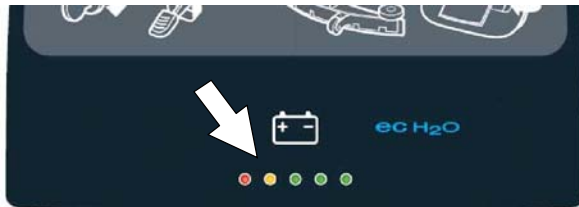


FIG. 47

CIRCUIT BREAKER PANEL

The machine is equipped with resettable circuit breakers to protect the machine from a current overload. If a circuit breaker trips, disconnect the battery cable connection and reset the breaker by pressing the reset button after the breaker has cooled down. Reconnect the battery cable connection. If the circuit breaker does not reset or continues to trip contact service personnel.

The circuit breaker panel is located near the battery compartment and identified as described below (Figure 48).

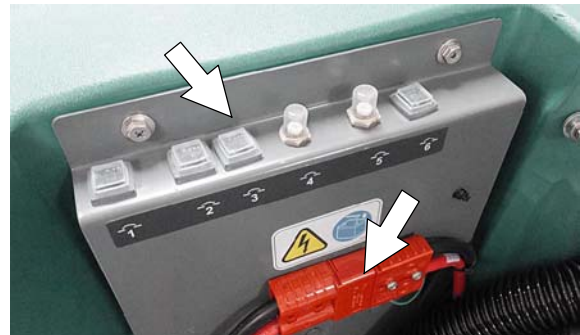


FIG. 48

Circuit Breaker	Rating	Circuit protected
CB1	4 A	Key switch, control board
CB2	4 A	ec-H2O module
CB3	4 A	ec-H2O pump
CB4	30 A	Propel
CB5	37 A	Brush motor
CB6	20 A	Vacuum motor

FOR SAFETY: When servicing machine, all repairs must be performed by trained personnel.

HOUR METER

The hour meter records the number of hours the machine has been operated. Use the hour meter to perform specific maintenance procedures and to record service history (Figure 49).



FIG. 49

OPERATION

DRAINING TANKS

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

DRAINING RECOVERY TANK

Drain and clean the recovery tank daily and between solution tank refills.

1. Transport the machine to drain area.
2. For models equipped with drain hose caps, hold the hose upward, remove cap then slowly lower hose to drain. For models equipped with flow control valve drain hose, lower hose and slowly open valve to drain (Figure 50).



FIG. 50

NOTE: When using a bucket to drain the machine, do not use the same bucket to fill the solution tank.

3. Remove and clean the float shut-off screen (Figure 51).



FIG. 51

4. Option - Remove the debris tray and empty (Figure 52).

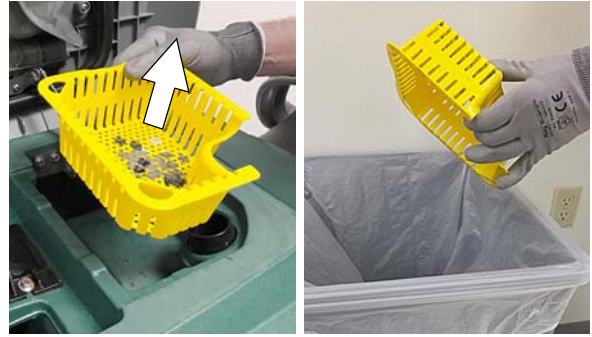


FIG. 52

5. Rinse out the recovery tank with clean water and wipe clean of any soil residue (Figure 53).

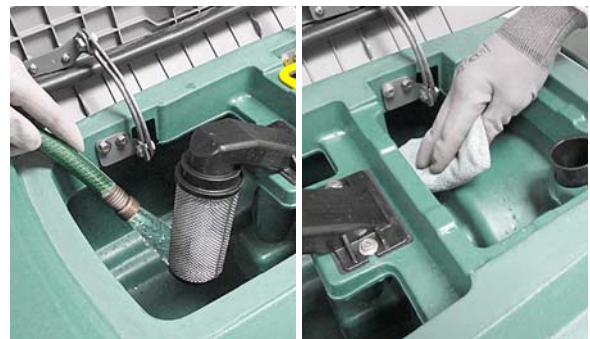


FIG. 53

DRAINING SOLUTION TANK

Drain the solution tank daily.

1. Transport the machine to drain area.

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

2. To drain remaining water from solution tank, pull the solution hose from the accessory rail (Figure 54).



FIG. 54

Firmly reconnect the solution hose to accessory rail after draining tank.

- Rinse out solution tank with clean water (Figure 55).



FIG. 55

- Remove the solution tank filter and clean screen after every 50 hours of use (Figure 56). Solution filter is located under machine at rear. Drain solution tank before removing filter.

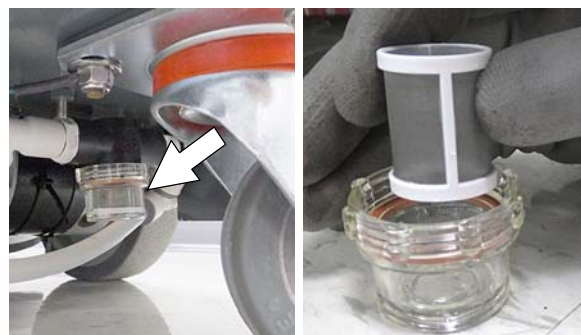
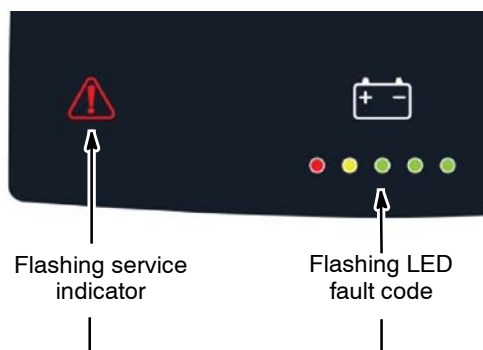


FIG. 56

SERVICE INDICATOR CODES

When the machine or battery charger detects a fault, the service indicator will flash. A fault code will be provided to determine problem as described below.

Control Panel



LED Fault Code * = Flashing	CAUSE	SOLUTION
* * * * *	Emergency stop button activated.	Release emergency stop button and restart machine.
. . . * *	Brush motor wiring, connector or control board problem.	Contact service.
. . * . .	Vacuum motor wiring, connector or control board problem.	Contact service.
. . * . *	Severe environment detergent pump wiring, connector or control board problem.	Contact service.
. . * * .	Propel circuit breaker tripped.	Disconnect battery and reset circuit breaker. If trip repeats, contact service.
. * . * *	Software load failure.	Contact service.
* . . . *	Propel I-Drive fault Propel I-Drive communication lost	Restart machine. If fault repeats, contact service.
* . . * .	Propel motor shorted fault	Contact service.
* . . * *	Brush motor over current	Contact service.

OPERATION

SERVICE INDICATOR CODES - Continued

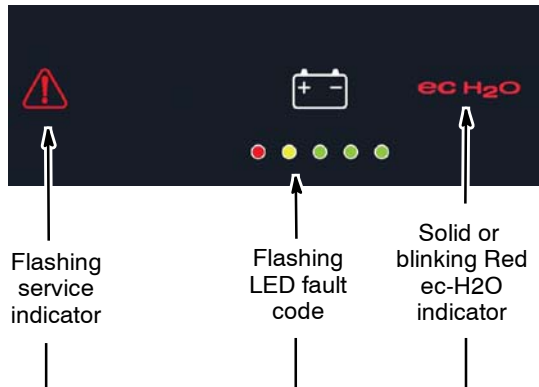
LED Fault Code * = Flashing	CAUSE	SOLUTION
* • * • *	Start bail is pulled or obstructed before turning machine on.	Release start bail or remove bail obstruction before turning machine on.
* • * * •	Brush motor control board fault Vacuum motor control board fault	Disconnect battery cable connection and contact service to replace control board.
* • * * *	Vacuum motor over current.	Contact service.
* * • • •	Vacuum motor shorted fault.	Contact service.
* * • * •	Brush motor shorted fault.	Contact service.
• * * * •	Charger communication fault Scrub control board comm. fault ec-H2O system comm. fault	Restart. If fault code persists, contact service.

ON-BOARD BATTERY CHARGER SERVICE INDICATOR CODES

LED Fault Code * = Flashing	CAUSE	SOLUTION
* * * • •	Charger error condition.	Contact service.
• * * • •	Charger is not connected to battery pack.	Check cable connections.
• * • • •	Charger overheated.	Let charger cool. Move to well ventilated area. Charge batteries in areas with temperatures 80°F/27°C or less. If fault persists, contact service.
• * * * •	Charger communication fault	Restart charger. If fault code persists, contact service.
• * * • *	Charger timer exceeded maximum charging time. Interrupts charging cycle.	Replace Batteries.

ec-H2O SYSTEM SERVICE INDICATOR CODES - OPTION

Control Panel

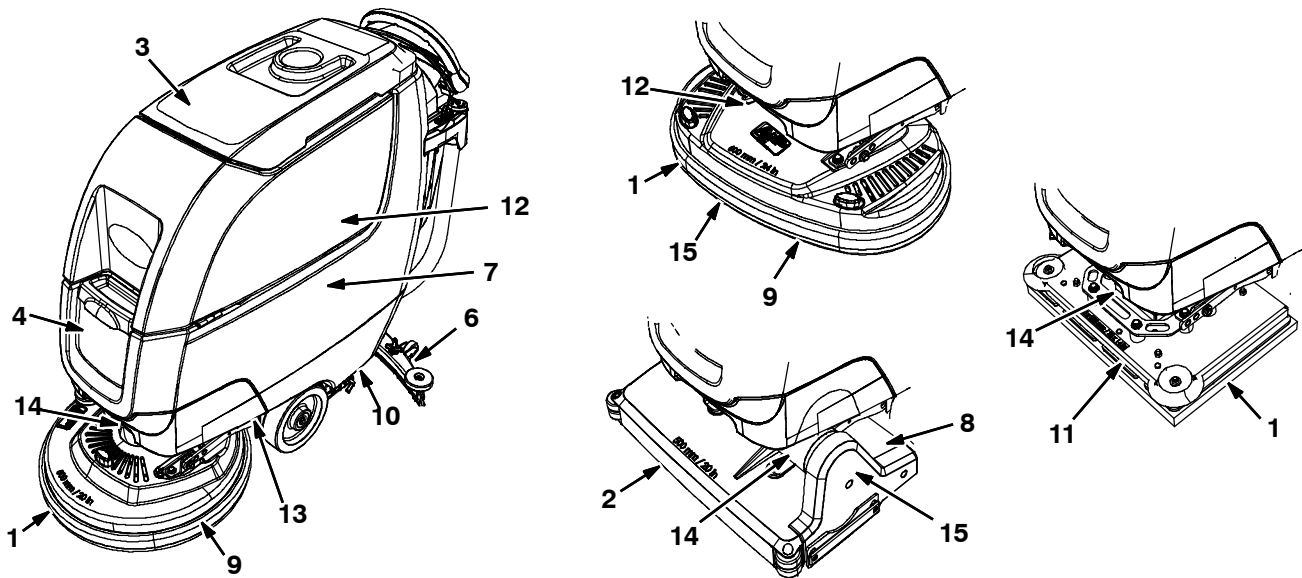


LED Fault Code * = Flashing	LCD Fault Code	CAUSE	SOLUTION
• * • * •	0x0711	ec-H2O pump wiring, connector or control board problem.	Contact service.
• * * * *	0x0713 0x0714 0x0715	ec-H2O pump over current	Contact service.
* • • • •	0x0717	ec-H2O pump shorted fault	Contact service.
* • * • •	0x0703 0x0712	ec-H2O system breaker tripped ec-H2O pump breaker tripped	Reset circuit breaker. If trip repeats, contact service.
ecH2O indicator solid red	0x0716 0x0727 0x0741 0x0746	ec-H2O pump shorted fault ec-H2O control board fault Water conditioning pump open Water conditioning pump fault	Contact service.
ecH2O indicator blinking red*	0x0702 0x0708* 0x0721 0x0723 0x0726	ec-H2O pressure switch trip ec-H2O system over regulation No ec-H2O cell current ec-H2O cell over current ec-H2O cell shorted fault	Contact service.
ecH2O indicator blinking blue/red		Water conditioning cartridge expired	Replace water conditioning cartridge.

*Verify if cleaning detergent was added to solution tank. If ec-H2O system was operated with cleaning detergent, drain solution tank, add clear water and operate the ec-H2O system until the fault code clears.

MAINTENANCE

MAINTENANCE CHART



Interval	Person Resp.	Key	Description	Procedure
Daily	O	1	Pad(s)	Check, flip or replace
	O	1	Brush(es)	Check, clean
	O	2	Cylindrical Brushes	Check, clean
	O	3	Recovery tank	Drain, rinse, clean float shut-off screen and debris tray if equipped
	O	4	Solution tank	Drain, rinse
	O	6	Squeegee	Clean, check for damage and wear
	O	7	Batteries	Charge if necessary
	O	8	Debris trough	Clean
	O	9	Scrub head skirt	Check for damage and wear
Weekly	O	7	Battery cells	Check electrolyte level
	O	6	Squeegee assembly drip trap reservoir	Check, clean
50 Hours	O	2	Cylindrical brushes.	Rotate brushes. Check for wear
	O	2	Cylindrical scrub head	Clean underside of scrub head
	O	3	Recovery tank lid seal	Check for wear.
	O	10	Solution tank filter	Clean
100 Hours	O	7	Battery watering system (option)	Check hoses for damage and wear
200 Hours	O	7	Batteries, terminals and cables	Check and clean
500 Hours	T	11	Lower orbital isolators	Replace (4 qty)
750 Hours	T	12	Vacuum motor	Replace carbon brushes
1250 Hours	T	13	Propel motor	Replace carbon brushes
	T	14	Brush motor	Replace carbon brushes
	T	15	Brush belt	Replace belt

O = Operator T = Trained Personnel

MACHINE MAINTENANCE

To keep the machine in good working condition, simply perform the following maintenance procedures.

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

FOR SAFETY: When servicing machine wear personal protection equipment as needed. All repairs must be performed by trained personnel

AFTER DAILY USE

1. Drain and rinse out the recovery tank (Figure 57). See DRAINING TANKS.



FIG. 57

2. Option - Remove the debris tray and empty (Figure 58).

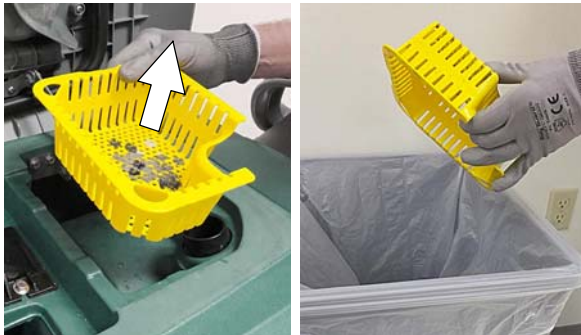


FIG. 58

3. Remove and clean the float shut-off screen (Figure 59).



FIG. 59

4. Drain and rinse out the solution tank (Figure 60).

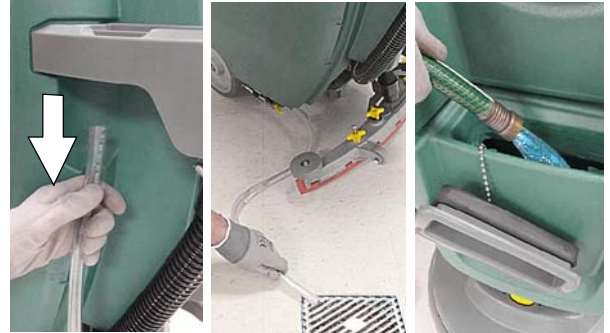


FIG. 60

5. Disk scrub head - Turn pad over or replace when worn (Figure 61).

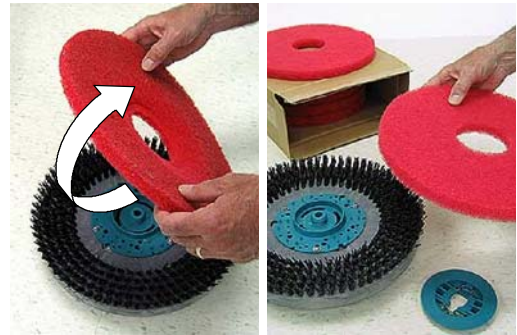


FIG. 61

Orbital scrub head - Turn the work pad over or replace when worn (Figure 62).

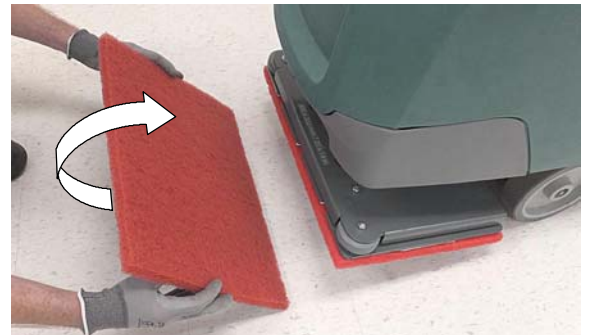


FIG. 62

6. Insta-Click pad driver/brushes - clean any debris buildup from hub connection area (Figure 63).



FIG. 63

MAINTENANCE

- Wipe the squeegee blades clean. Inspect blades for wear and damage (Figure 64). Rotate blade if worn. See SQUEEGEE BLADE REPLACEMENT.



FIG. 64

- Check the scrub head skirt for wear or damage (Figure 65). Replace if worn or damaged.



FIG. 65

- Clean the outside surface of the machine with an all purpose cleaner and damp cloth (Figure 66).



FIG. 66

- Cylindrical scrub head - Remove and clean debris trough (Figure 67).



FIG. 67

- Charge batteries (Figure 68). See BATTERIES.



FIG. 68

AFTER WEEKLY USE

- Check the electrolyte level in all batteries (Figure 69). See BATTERIES.

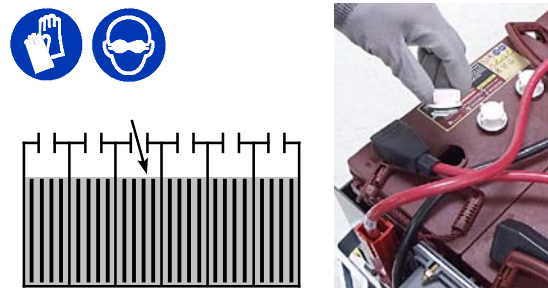


FIG. 69

- Remove the drip trap cover from the squeegee assembly and clean reservoir (Figure 70).



FIG. 70

AFTER EVERY 50 HOURS OF USE

1. Remove the solution tank filter and clean screen (Figure 71). Turn the filter bowl counter-clockwise to remove. Make sure to drain solution tank before removing filter.

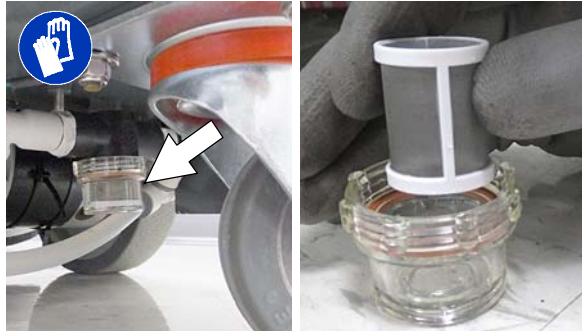


FIG. 71

2. Cylindrical brushes - Rotate brushes from front to rear (Figure 72). Replace brushes when they no longer clean effectively.



FIG. 72

3. Cylindrical scrub head - Remove debris buildup from underside of scrub head (Figure 73).



FIG. 73

4. Inspect and clean the seal on the recovery tank lid (Figure 74). Replace seal if damaged.



FIG. 74

AFTER EVERY 100 HOURS OF USE

If machine is equipped with the optional battery watering system, check the watering hoses and connections for damage and wear (Figure 75). Replace system if damaged.

FOR SAFETY: When servicing batteries, wear personal protection equipment as needed. Avoid contact with battery acid.

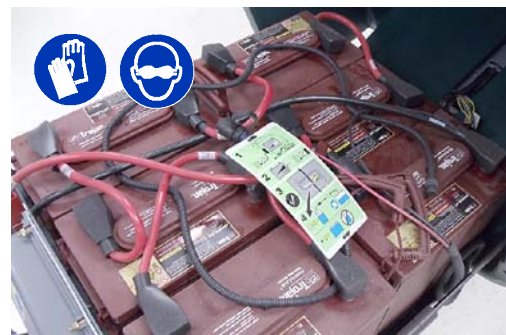


FIG. 75

ELECTRIC MOTORS

Replace motor carbon brushes as indicated. Contact trained personnel for carbon brush replacement.

Carbon Brush Replacement	Hours
Vacuum motor	750
Propel motor (drive model)	1250
Disk brush motor	1250
Cylindrical brush motor	1250
Orbital brush motor	1250

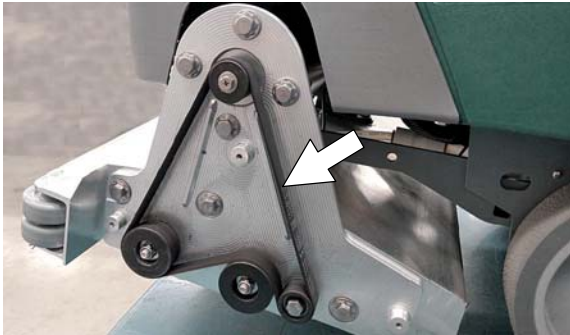
MAINTENANCE

BELTS

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

Replace belts every 1250 hours. Contact trained personnel for belt replacement (Figure 76).

Cylindrical Brush Drive Belt



Dual Disk Brush Drive Belt

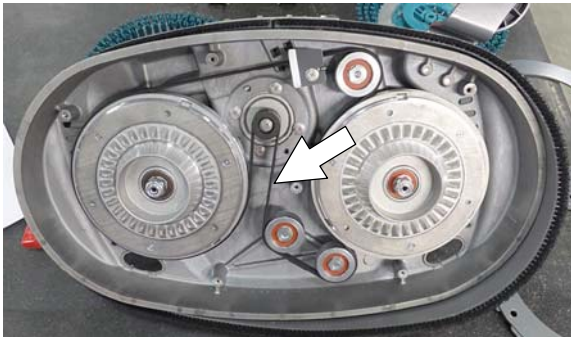


FIG. 76

ORBITAL SCRUB HEAD ISOLATORS

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

Replace the four lower vibration isolators every 500 hours. The lower isolators (hidden) are located between the deck plate the driver plate. Contact trained personnel for isolator replacement (Figure 77).



FIG. 77

BATTERIES

FOR SAFETY: Before servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

The lifetime of the batteries depends on their proper maintenance. To get the most life from the batteries;

- Do not charge the batteries more than once a day and only after running the machine for a minimum of 15 minutes.
- Do not leave the batteries partially discharged for long period of time.
- Only charge the batteries in a well-ventilated area to prevent gas build up. Charge batteries in areas with ambient temperatures 80°F / 27°C or less.
- Allow the charger to complete charging the batteries before re-using the machine.
- Maintain the proper electrolyte levels of flooded (wet) batteries by checking levels weekly.

Your machine is equipped with either flooded (wet) lead-acid or maintenance-free batteries supplied by Tennant.

FOR SAFETY: When servicing machine, keep all metal objects off batteries. Avoid contact with battery acid.

MAINTENANCE-FREE BATTERIES

Maintenance-free (Sealed AGM) batteries do not require watering. Cleaning and other routine maintenance is still required.

FLOODED (WET) LEAD-ACID BATTERIES

The flooded (wet) lead-acid batteries require routine watering as described below. Check the battery electrolyte level weekly.

NOTE: Do Not check the electrolyte level if the machine is equipped with the optional battery watering system. Proceed to the BATTERY WATERING SYSTEM.

The electrolyte level should be slightly above the battery plates as shown before charging (Figure 78). Add distilled water if low. **DO NOT OVERFILL.** The electrolyte will expand and may overflow when charging. After charging, distilled water can be added up to about 3 mm (0.12 in) below the sight tubes.

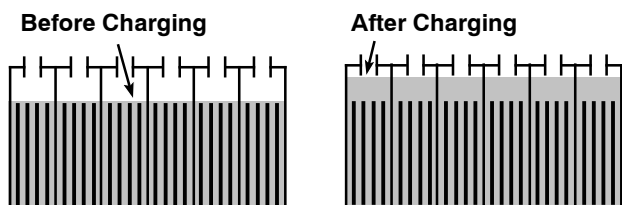


FIG. 78

NOTE: Make sure the battery caps are in place while charging. There may be a sulfur smell after charging batteries. This is normal.

CHECKING CONNECTIONS / CLEANING

After every 200 hours of use, check for loose battery connections and clean the surface of the batteries, including terminals and cable clamps to prevent battery corrosion. Use a scrub brush with a strong mixture of baking soda and water (Figure 79). Do not remove battery caps when cleaning batteries.



FIG. 79

CHARGING BATTERIES

The charging instructions in this manual are intended for the battery charger supplied with your machine. The use of other battery chargers that are not supplied and approved by Tennant are prohibited.

If your machine is equipped with an off-board battery charger refer to the charger's owners manual for operating instructions. Contact distributor or Tennant for battery charger recommendations if machine is not equipped with charger.

FOR SAFETY: The use of incompatible battery chargers may damage battery packs and potentially cause a fire hazard.

IMPORTANT NOTICE: The battery charger is set to charge the battery type supplied with your machine. If you choose to change to a different battery type or capacity (i.e. flooded (wet) lead-acid, maintenance-free, sealed, AGM batteries, etc.), the charger's charging profile must be changed to prevent battery damage. See BATTERY CHARGER SETTINGS.

1. Transport the machine to a well-ventilated area.

⚠ WARNING: Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away when charging.

2. Park the machine on a flat, dry surface, turn off machine and remove key.

FOR SAFETY: When servicing batteries, stop on level surface, turn off machine, remove key and set parking brake if equipped.

3. If the machine is equipped with flooded (wet) lead-acid batteries check the battery electrolyte level weekly before charging. See *FLOODED (WET) LEAD-ACID BATTERIES*.
4. For models equipped with on-board chargers, remove the charger's power cord from the storage hooks and plug power cord into a properly grounded wall outlet (Figure 80).



FIG. 80

For models equipped with off-board chargers, first connect the charger's DC cord into the machine's battery charge receptacle then plug the AC power supply cord into a properly grounded wall outlet (Figure 81). Refer to the off-board battery charger's owner manual for operating instructions.

FOR SAFETY: Do not disconnect the off-board charger's DC cord from the machine's receptacle when the charger is operating. Arcing may result. If the charger must be interrupted during charging, disconnect the AC power supply cord first.



FIG. 81

5. The charger will automatically begin charging and shut off when fully charged. The maximum charging cycle may take up to 6- 12 hours depending on battery type.

On-board battery charger: The battery discharge indicator lights will ripple back and forth during the charging cycle. When all five lights are flashing, the charging cycle is complete (Figure 82).



FIG. 82

6. After charging batteries unplug the power supply cord and wrap cord around the cord hooks (Figure 83).

For models equipped with an off-board charger, always disconnect the AC power supply cord first before disconnecting charger from machine.



FIG. 83

BATTERY CHARGER SETTINGS

The battery charger is set to charge the battery type supplied with your machine. If you choose to change to a different battery type or capacity, the charger's charging profile must be changed to prevent battery damage.

For machine's equipped with an off-board battery charger, refer to the off-board charger's owner manual to change the charger's charging profile.

FOR SAFETY: When servicing batteries, stop on level surface, turn off machine, remove key and set parking brake if equipped.

To change the on-board battery charger settings for a different battery type :

1. Disconnect the battery cable connection at machine (Figure 84).



FIG. 84

2. Unwrap the battery charger power cord from the cord hooks.
3. Using a T25 star screwdriver, remove the two screws located at the bottom of the control console to access battery charger (Figure 85).

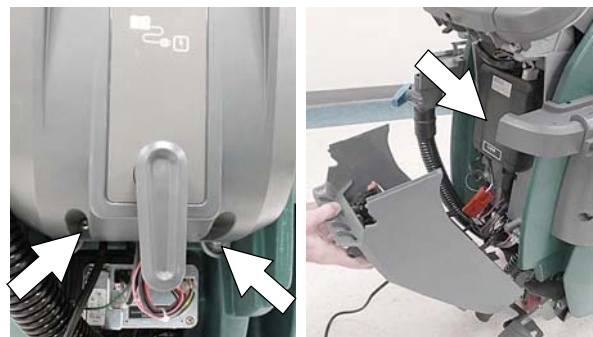


FIG. 85

4. Disconnect the battery cable, power cord and wire harness from charger. Using a T25 star screwdriver, remove the four screws that mount charger to machine (Figure 86). Remove charger from machine.

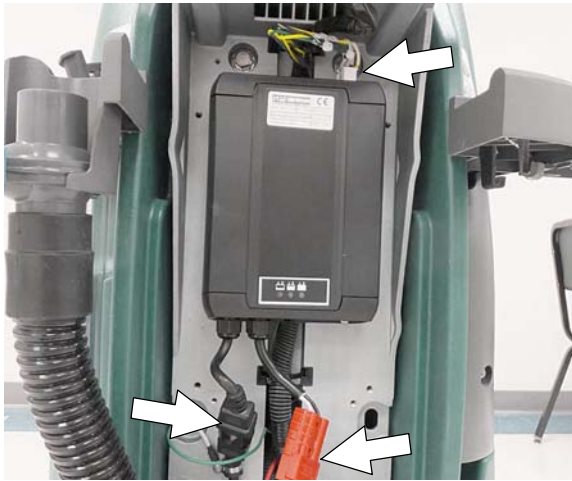


FIG. 86

5. Remove the black cap from bottom side of charger to access the profile dial (Figure 87)



FIG. 87

6. Using a small standard screwdriver, turn the dial to the appropriate battery type according to the following chart (Figure 88).

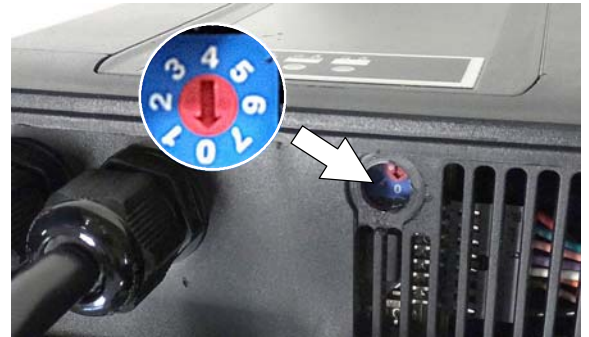


FIG. 88

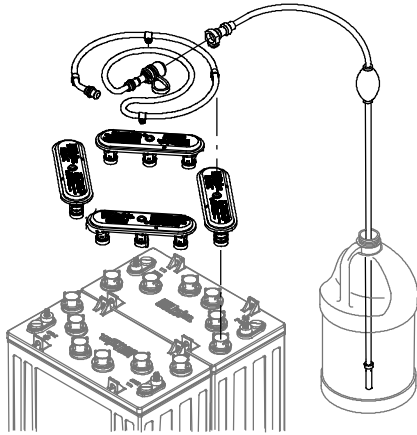
Dial Position	Battery Description Settings with AH Ranges
0	Factory setting*
1	Wet, Trojan 105- 155 AH
2	Wet, EnerSys/Tab 105- 155 AH
3	AGM, Discover 80- 150 AH
4	AGM, Fullriver 80- 150 AH
5	AGM, TPPL, EnerSys 20- 40 AH
6	Gel, Sonnenschein 80- 150 AH

** The factory setting, dial position "0", is pre-programmed to accommodate the battery type supplied with new machine. After the dial is changed from the factory setting, it should not be returned to "0" otherwise battery damage may result.*

7. Replace the black cap on charger, reinstall battery charger and replace control console.
8. Reconnect the battery cable connection.

**HYDROLINK® BATTERY WATERING SYSTEM
(Trojan 155AH Battery Option)**

The following instructions are for models equipped with the HydroLINK battery watering system option.



The optional HydroLINK battery watering system provides a safe and easy way to maintain the proper electrolyte levels in your batteries. It is designed exclusively for Trojan® flooded (wet) lead-acid batteries.

FOR SAFETY: When servicing machine, wear personal protection equipment as needed. Avoid contact with battery acid.

Before using the battery watering system check hoses and connections for damage or wear.

1. Fully charge batteries prior to using the battery watering system. Do not add water to batteries before charging, the electrolyte level will expand and may overflow when charging.
2. After charging batteries, check the battery electrolyte level indicators located on the battery covers (Figure 89). If the level indicator is white add water as described in the following instructions. If the level indicators are black the electrolyte is at the correct level, no water is required.



FIG. 89

3. Locate the battery fill hose coupler inside the battery compartment. Remove the dust cap and connect the hand pump hose (Figure 90).

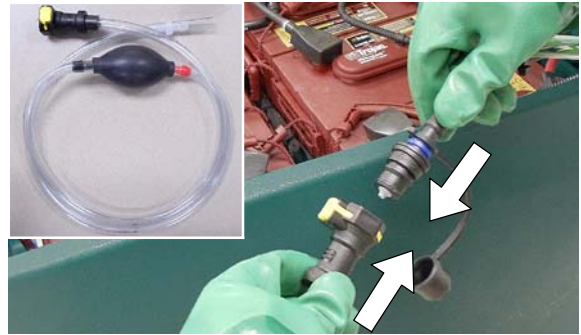


FIG. 90

4. Submerge the other end of the hand pump hose into a bottle of distilled water (Figure 91).



FIG. 91

5. Squeeze the bulb on the hand pump hose until firm (Figure 92). The level indicators will turn black when full.

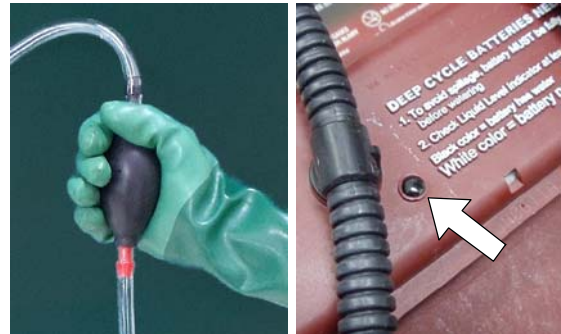


FIG. 92

6. After adding water, replace the dust cap on the battery fill hose and store the hand pump hose inside the machine's battery compartment for future use.

SQUEEGEE BLADE REPLACEMENT

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

Each squeegee blade has four wiping edges. When the blades become worn, simply rotate the blades end-for-end or top-to-bottom for a new wiping edge. Replace blade if all four edges are worn.

1. Remove the squeegee assembly from the machine.
2. Fully loosen the two outside knobs on squeegee assembly. This will separate the spring loaded blade retainer from squeegee frame (Figure 93). To loosen the knobs quickly, squeeze the blade retainer and squeegee frame together.

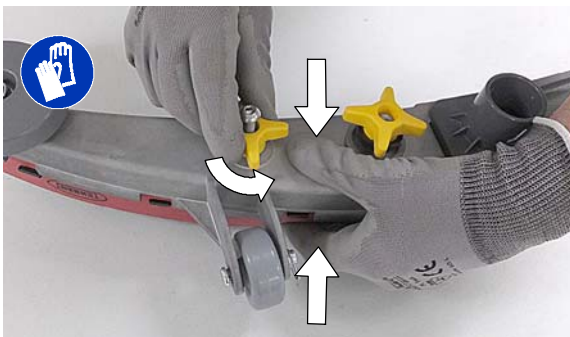


FIG. 93

3. Remove worn blade(s) from the blade retainer (Figure 94).

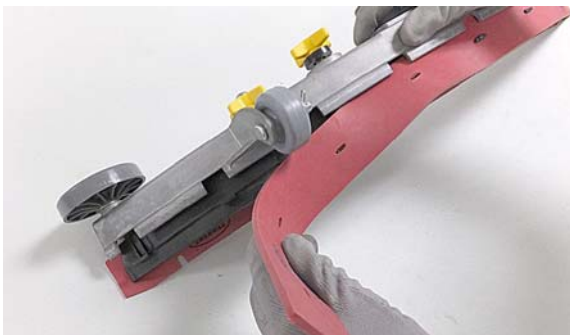


FIG. 94

4. Rotate the rear blade to a new wiping edge (Figure 95). Make sure to align the slots in the blade with retainer tabs.

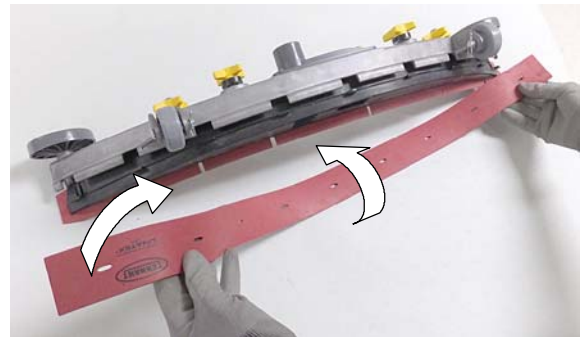


FIG. 95

5. Squeeze the squeegee frame and blade retainer together and re-tighten the two outside knobs (Figure 96).



FIG. 96

ec-H2O NanoClean WATER CONDITIONING CARTRIDGE REPLACEMENT

FOR SAFETY: Before leaving or servicing machine, stop on level surface, turn off machine, remove key and set parking brake if equipped.

The water conditioning cartridge is required to be replaced when it reaches its maximum water usage or expiration time of when the cartridge was activated, which ever comes first. The control panel will signal a code when it's time to replace cartridge. See CONTROL PANEL OPERATION for further details.

Depending on machine usage, on average, a new cartridge can last anywhere from 12 months for heavy machine usage to 24 months for light machine usage.

ATTENTION: During first time use and after replacing the water conditioning cartridge, the ec-H2O system will automatically override the selected solution flow rate for up to 75 minutes.

1. Park the machine on a level surface, remove the key and set parking brake, if equipped.
2. Lift the recovery tank to access the ec-H2O water conditioning cartridge (Figure 97). Drain recovery tank before lifting tank.



FIG. 97

3. Disconnect the two hose connectors from the top of the cartridge by pressing the gray collars inward and pulling the connectors outward (Figure 98). Lift cartridge to remove.



FIG. 98

4. Fill in the installation date on the new cartridge label (Figure 99).



FIG. 99

5. Install the new cartridge and reconnect the two hoses. Make sure the hose connectors are fully inserted into the cartridge.
6. Reset timer for new cartridge.

Carefully read and understand all steps first before performing procedure.

- a. Turn key on.
- b. Press and hold the service switch, located on the ec-H2O module, for 10 seconds. After releasing service switch, the three solution flow indicator lights will begin to (ripple) move back and forth (Figure 100).
- c. Within 5 seconds after releasing the service switch, while the three indicator lights are moving back and forth, quickly press and release the solution flow button located on ec-H2O module (Figure 100).

The three indicator lights will then blink three times to indicate timer has been reset.

Repeat process if the three indicator lights do not blink three times.

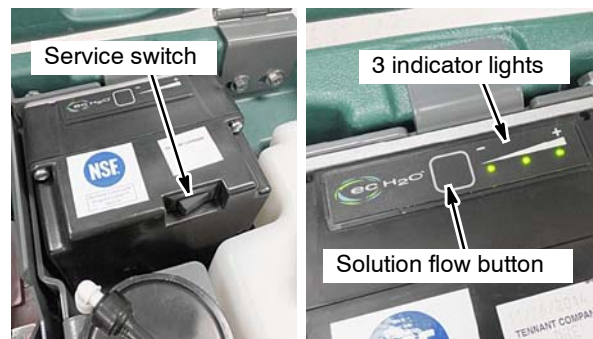


FIG. 100

LOADING/UNLOADING MACHINE FOR TRANSPORTING

When transporting the machine by use of trailer or truck, carefully follow the loading and tie-down procedure:

1. Raise the scrub head and remove squeegee assembly.
2. Use a ramp that can support the machine weight and operator and carefully load machine. Do not operate the machine on a ramp incline that exceeds a 21% grade level (Figure 101). A winch must be used when ramp incline exceeds a 21% grade level.

FOR SAFETY: When loading/unloading machine onto/off truck or trailer, use a ramp that can support the machine weight and operator.

FOR SAFETY: Do not operate the machine on a ramp incline that exceeds a 21% grade level.

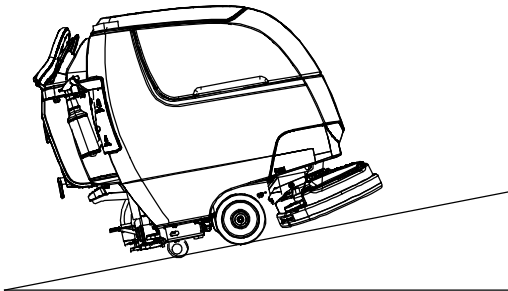


FIG. 101

3. Once loaded, position the front of the machine up against the front of the trailer or truck. Lower the scrub head, turn key off and set parking brake, if equipped (Figure 102).
4. Place a block behind each wheel (Figure 102).
5. Using tie-down straps, secure the machine using the four tie-down brackets located on the machine frame (Figure 102). It may be necessary to install tie-down brackets to the floor of your trailer or truck.

ATTENTION: Do not use control console area or accessory storage rails for tie-down locations, damage may occur.

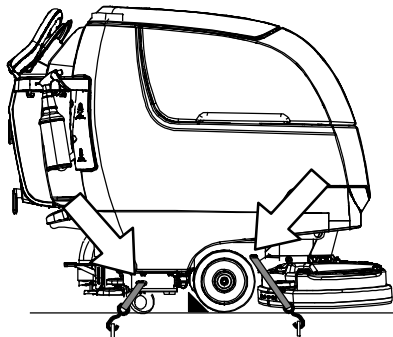


FIG. 102

STORING MACHINE

The following steps should be taken when storing the machine for extended periods of time.

1. Charge the batteries before storing machine to prolong the life of the batteries. Recharge batteries every 3 months.
2. Drain and rinse recovery tank and solution tank.
3. Store the machine in a dry area with squeegee and scrub head in the up position.

ATTENTION: Do not expose machine to rain, store indoors.

4. Open the recovery tank lid to promote air circulation.

NOTE: To prevent potential machine damage store machine in a rodent and insect free environment.

FREEZE PROTECTION

Storing machine in freezing temperatures.

1. Completely drain solution tank and recovery tank.
2. Empty the water from the solution tank filter located under machine. Replace filter.
3. Pour 1 gallon / 4 liters of propylene glycol based recreational vehicle (RV) antifreeze into the solution tank.
4. Turn machine on and operate the solution flow system. Turn the machine off when the antifreeze is visible on floor.

Models equipped with ec-H2O option - Operate ec-H2O scrubbing to cycle antifreeze through system.

5. After storing machine in freezing temperatures, drain any remaining antifreeze from the solution tank. Add clean water to solution tank and to optional detergent tank and operate the machine to flush system.

MAINTENANCE

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Service indicator icon is blinking	Machine or on-board battery charger fault has been detected	See SERVICE INDICATOR CODES
ec-H2o indicator icon is red or blinking red	ec-H2O system fault has been detected	See SERVICE INDICATOR CODES
Machine will not operate	Emergency stop button activated	Turn button to reset
	Machine fault detected	See SERVICE INDICATOR CODES
	Batteries discharged	Recharge batteries
	Loose battery cable(s)	Tighten loose cables
	Faulty battery(s)	Replace battery(s)
	Faulty key switch	Contact service
	Faulty start bail switch	Contact service
	Circuit breaker tripped	Reset circuit breaker
	Faulty control board	Contact service
On-board battery charger will not operate	Plug not connected to power supply	Check plug connection
	Batteries over discharged	Replace batteries
	Battery charger fault detected	See SERVICE INDICATOR CODES
	Faulty charger	Replace charger
Machine will not propel (Drive Model)	Propel fault has been detected.	See SERVICE INDICATOR CODES
	Circuit breaker tripped	Reset circuit breaker
	Faulty propel motor or wiring	Contact service
	Worn carbon brushes in motor	Contact service
Brush motor will not operate	Brush motor fault has been detected.	See SERVICE INDICATOR CODES
	Faulty pad motor or wiring	Contact service
	Circuit breaker tripped	Reset circuit breaker
	Worn carbon brushes in motor	Contact service
	Broken or loose belt (dual disk/cylindrical models)	Contact service
Vacuum motor will not operate	Squeegee assembly is raised off floor	Lower squeegee assembly to floor
	Vacuum motor fault has been detected	See SERVICE INDICATOR CODES
	Faulty vacuum motor or wiring	Contact service
	Circuit breaker tripped	Reset circuit breaker
Poor scrubbing performance	Debris caught in brush/pad	Remove debris
	Worn brush/pad	Replace brushes/pad
	Incorrect brush pressure	Adjust brush pressure
	Wrong brush/pad type	Use correct brush/pad for application
	Low battery charge	Recharge batteries

TROUBLESHOOTING - Continued

PROBLEM	CAUSE	SOLUTION
Trailing water - poor or not water pickup	Full recovery tank or excessive foam buildup	Drain recovery tank
	Loose drain hose cap or flow control valve is open	Replace cap or close flow control valve on drain hose
	Worn squeegee blades	Rotate or replace squeegee blades
	Clogged drip trap (Squeegee assembly)	Remove cover and clean
	Clogged squeegee assembly	Clean squeegee assembly
	Loose vacuum hose connection	Secure vacuum hose connection
	Clogged vacuum hose	Flush vacuum hose
	Clogged vacuum hose	Flush vacuum hose
	Damaged vacuum hose	Replace vacuum hose
	Clogged float shut-off screen in recovery tank	Clean screen
	Recovery tank lid not completely closed	Check lid for obstructions
Defective seals on recovery tank lid	Replaced seal	
Little or no solution flow	Empty solution tank	Refill solution tank
	Low solution flow rate set	Increase solution flow rate
	Clogged solution tank filter	Clean filter
	Plugged solution supply line	Flush solution supply line
Short run time	Low battery charge	Charge batteries
	Batteries need maintenance	See BATTERIES
	Defective battery or end of battery life	Replace batteries
	Battery discharge indicator (BDI) programmed incorrectly	See CHARGING BATTERIES
	Faulty charger	Replace battery charger
	Brush pressure set too high	Lower brush pressure. Lower dual down pressure lever

SPECIFICATIONS

GENERAL MACHINE DIMENSIONS/CAPACITIES/PERFORMANCE

MODEL	17 in / 43 cm Disk (Push)	20 in / 50 cm Disk (Push)	17 in / 43 cm Disk (Drive)	20 in / 50 cm Disk (Drive)
Length	51.25 in / 1302 mm	54 in / 1372 mm	51.25 in / 1302 mm	54 in / 1372 mm
Width	20 in / 508 mm	22 in / 559 mm	20 in / 508 mm	22 in / 559 mm
Height	43.1 in / 1095 mm	43.1 in / 1095 mm	43.1 in / 1095 mm	43.1 in / 1095 mm
Weight	220 lb / 98 kg	230 lb / 104 kg	230 lb / 104 kg	240 lb / 109 kg
Weight (with batteries)	366 lb / 166 kg	376 lb / 171 kg	390 lb / 177 kg	400 lb / 181 kg
GVW	457 lb / 207 kg	467 lb / 212 kg	482 lb / 219 kg	492 lb / 223 kg
Squeegee width	30.4 in / 772 mm			
Recovery tank capacity	14 gal / 53 L			
Solution tank capacity	11 gal / 42 L			
Scrubbing path width	16.9 in / 430 mm	19.9 in / 505 mm	16.9 in / 430 mm	19.9 in / 505 mm
Down pressure	47 lbs / 21.3 kg	52 lbs / 23.5 kg	47 lbs / 21.3 kg	51 lbs / 23 kg
Dual down pressure	88 lbs / 40 kg	92 lbs / 41.7 kg	86 lbs / 39 kg	90 lbs / 41 kg
Scrubbing speed	Pad assist		200 fpm / 61 mpm	
Transport speed	n/a	n/a	240 fpm / 73 mpm	
Reverse speed	n/a	n/a	144 fpm / 44 mpm	
Productivity rate - estimated actual	9,340ft ² /hr / 868m ² /hr	11,208ft ² /hr / 1041m ² /hr	12,453ft ² /hr / 1157m ² /hr	14,943ft ² /hr / 1388m ² /hr
ec-H ₂ O productivity rate - est. actual	9,668 ft ² /hr / 898 m ² /hr	11,602ft ² /hr / 1078m ² /hr	12,891ft ² /hr / 1198m ² /hr	15,469ft ² /hr / 1437m ² /hr
Aisle turnaround width	52 in / 1321 mm	54.5 in / 1384 mm	52 in / 1321 mm	54.5 in / 1384 mm
Ramp incline for scrubbing	9% maximum			
Ramp incline for transporting	21% maximum			
Ramp incline for loading- empty tanks	21% maximum			
Solution flow rate	.5 gpm / 1.9 L/min maximum			
ec-H ₂ O solution flow rate	Low: .12 gpm / .45 L/min, Med: .25 gpm / .94 L/min, High: .35 gpm / 1.3 L/min			
Brush motor	24 VDC, 1hp / .75kW			
Propel motor	n/a	n/a	24 VDC, .23 hp / .175 kW	
Vacuum motor	24 VDC, .5hp / .37kW			
Water lift	34.5 in / 876 mm			
ec-H ₂ O solution pump	24 VDC, 1.0 gpm / 3.8 L/min, min open flow			
Machine voltage	24 VDC			
Battery capacity	2- 12V 105AH C/20 Wet, 2- 12V 130AH C/20 Wet, 2- 12V 155AH C/20 Wet, 2- 12V 140AH C/20 Sealed/AGM			
Total power consumption	31.5A nominal	36.5A nominal	34.5A nominal	39.5A nominal
Battery Charger - on-board	100- 240VAC, 50/60Hz, 24VDC, 13A			
Battery Charger - smart off-board	100- 240VAC, 50/60Hz, 24VDC, 13A			
Protection grade	IPX3			
Sound pressure level L _{pA} *	67 dB(A)	67 dB(A)	67 dB(A)	67 dB(A)
Sound uncertainty K _{pA} *	0.8 dB(A)	0.8 dB(A)	0.8 dB(A)	0.8 dB(A)
Sound power level uncertainty L _{pA} - uncertainty K _{pA} *	84.3 dB(A)	84.3 dB(A)	84.3 dB(A)	84.3 dB(A)
Machine vibration at hand-arm*	<2.5 m/s ²			
Ambient operating temperature	Min: 32°F/0°C, Max: 110°F/43°C			

*Values per EN 60335-2-72. Specifications are subject to change without notice.

GENERAL MACHINE DIMENSIONS/CAPACITIES/PERFORMANCE

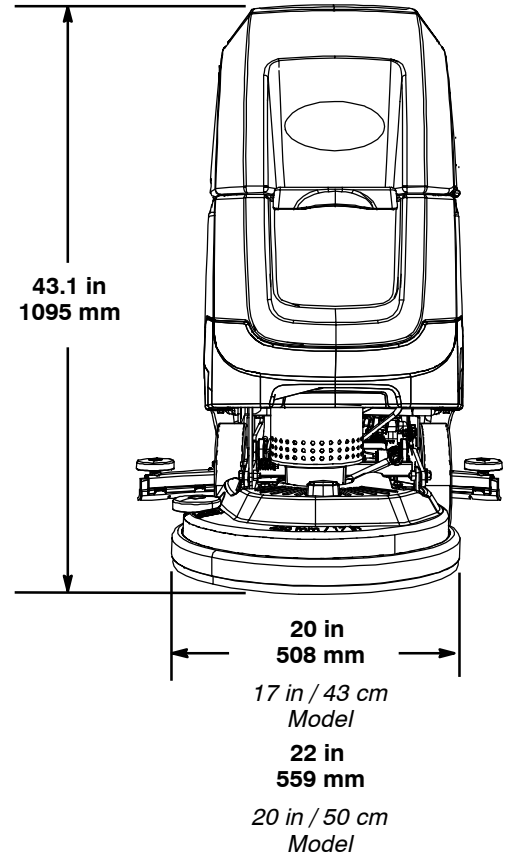
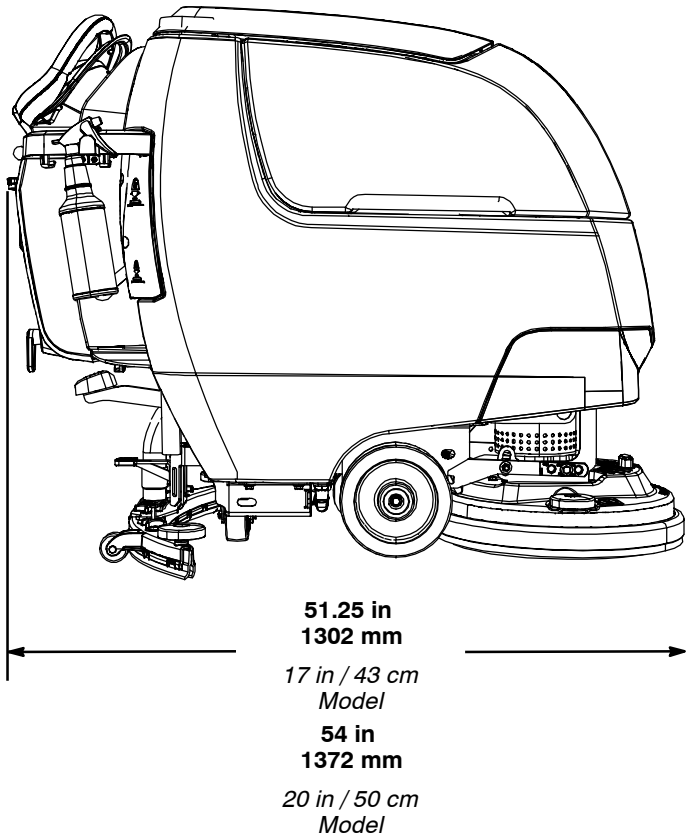
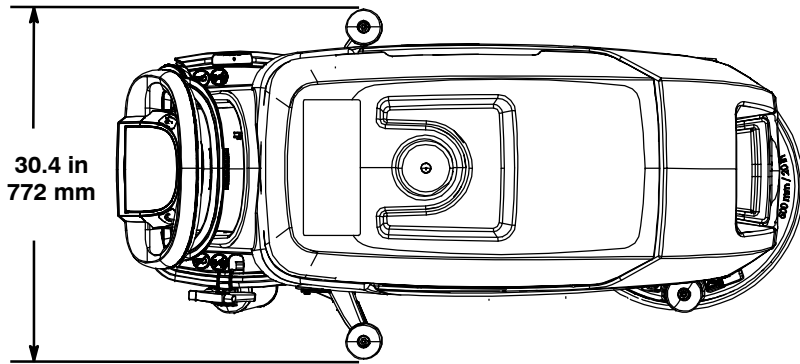
MODEL	24 in / 60 cm Dual Disk	20 in / 50 cm Cylindrical Brush	20 in / 50 cm Orbital
Length	51.75 in / 1314 mm	50.5 in / 1283 mm	49 in / 1245 mm
Width	26 in / 660 mm	25 in / 635 mm	20.5 in / 521 mm
Height	43.1 in / 1095 mm	43.1 in / 1095 mm	43.1 in / 1095 mm
Weight	250 lb / 113 kg	250 lb / 113 kg	255 lb / 216 kg
Weight (with batteries)	410 lb / 186 kg	410 lb / 186 kg	415 lb / 188 kg
GVW	502 lb / 228 kg	502 lb / 228 kg	507 lb / 230 kg
Squeegee width	30.4 in / 772 mm		
Recovery tank capacity	14 gal / 53 L		
Solution tank capacity	11 gal / 42 L		
Scrubbing path width	23.6 in / 600 mm	19.7 in / 500 mm	19.7 in / 500 mm
Down pressure	57 lbs / 26 kg	53 lbs / 24 kg	63 lbs / 28.5 kg
Dual down pressure	97 lbs / 44 kg	64 lbs / 29 kg	109 lbs / 49.5 kg
Scrubbing speed	200 fpm / 61 mpm		
Transport speed	240 fpm / 73 mpm		
Reverse speed	144 fpm / 44 mpm		
Productivity rate - estimated actual	18,264ft ² /hr / 1697m ² /hr	14,943ft ² /hr / 1388m ² /hr	14,943ft ² /hr / 1388m ² /hr
ec-H ₂ O productivity rate - est. actual	18,906ft ² /hr / 1756m ² /hr	15,469ft ² /hr / 1437m ² /hr	15,469ft ² /hr / 1437m ² /hr
Aisle turnaround width	53.5 in / 1346 mm	52 in / 1321 mm	49 in / 1245 mm
Ramp incline for scrubbing	9% max.		
Ramp incline for transporting	21% max.		
Ramp incline for loading- empty tanks	21% max.		
Solution flow rate	.5 gpm / 1.9 L/min maximum		
ec- H ₂ O solution flow rate	Low: .12 gpm / .45 L/min, Med: .25 gpm / .94 L/min, High: .35 gpm / 1.3 L/min		
Brush motor	24 VDC, 1hp / .75kW		
Propel motor	24 VDC, .23 hp / .175kW		
Vacuum motor	24 VDC, .5 hp / .37 kW		
Water lift	34.5 in / 876 mm		
ec- H ₂ O solution pump	24 VDC, 1.0 gpm / 3.8 L/min, min open flow		
Machine voltage	24 VDC		
Battery capacity	2- 12V 105AH C/20 Wet, 2- 12V 130AH C/20 Wet, 2- 12V 155AH C/20 Wet, 2- 12V 140AH C/20 Sealed/AGM		
Total power consumption	36A nominal	40A nominal	30A nominal
Battery Charger - on-board	100- 240VAC, 50/60Hz, 24VDC, 13A		
Battery Charger - smart off-board	100- 240VAC, 50/60Hz, 24VDC, 13A		
Protection grade	IPX3		
Sound pressure level L _{pA} *	67.7 dB(A)	68.7 dB(A)	67.5 dB(A)
Sound uncertainty K _{pA} *	0.8 dB(A)	0.8 dB(A)	0.8 dB(A)
Sound power level uncertainty L _{pA} - uncertainty K _{pA} *	83.8 dB(A)	84.2 dB(A)	83.5 dB(A)
Machine vibration at hand-arm*	<2.5 m/s ²		
Ambient operating temperature	Min: 32°F/0°C, Max: 110°F/43°C		

*Values per EN 60335- 2- 72. Specifications are subject to change without notice.

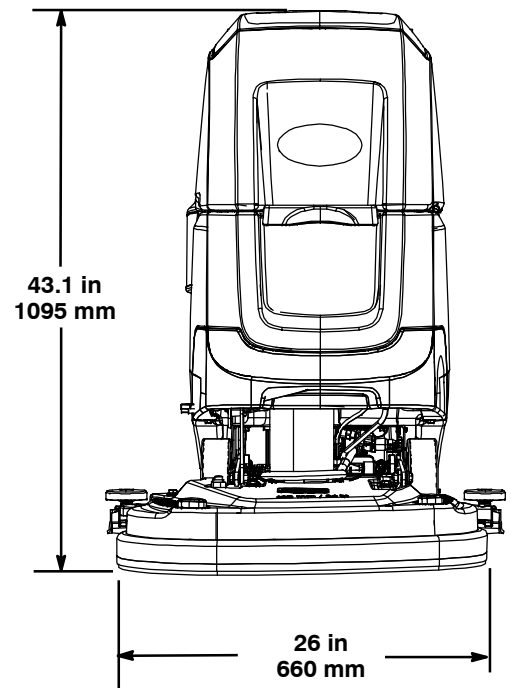
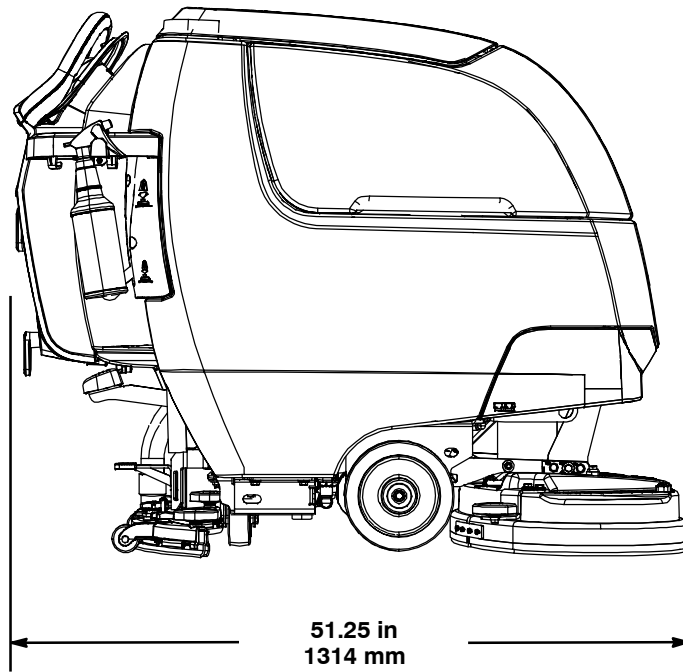
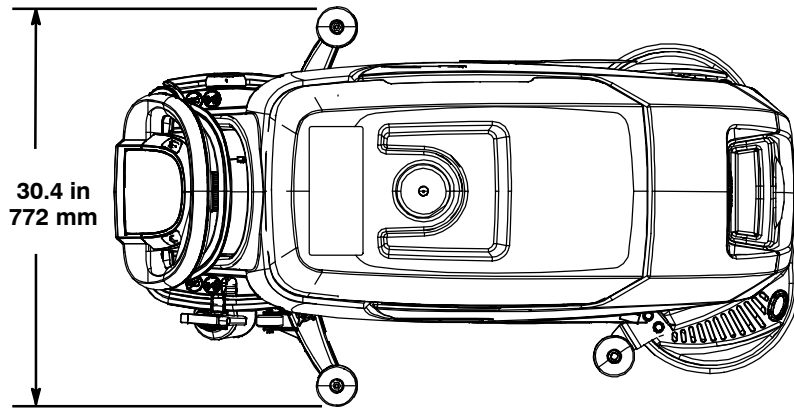
SPECIFICATIONS

MACHINE DIMENSIONS

SINGLE DISK MODEL

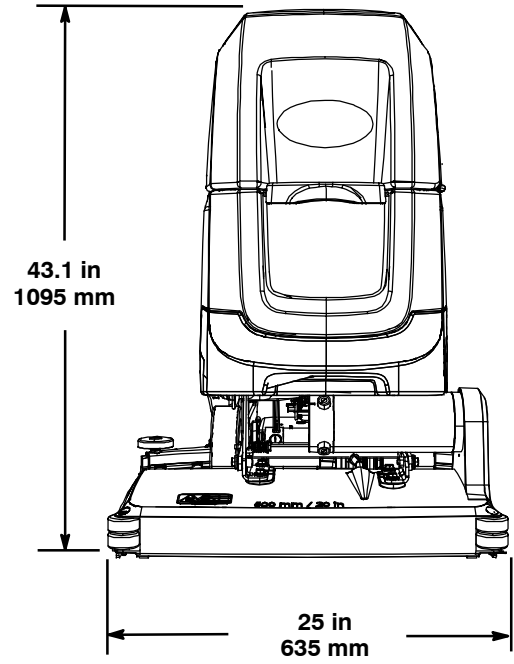
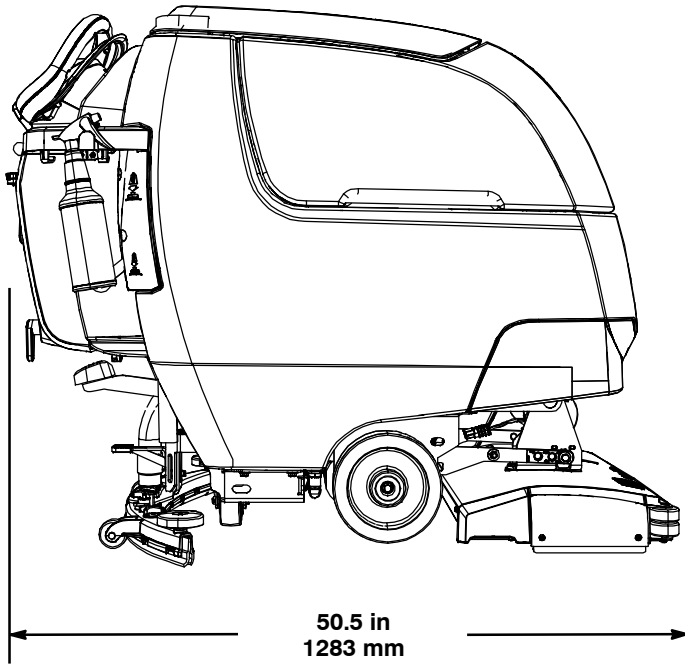
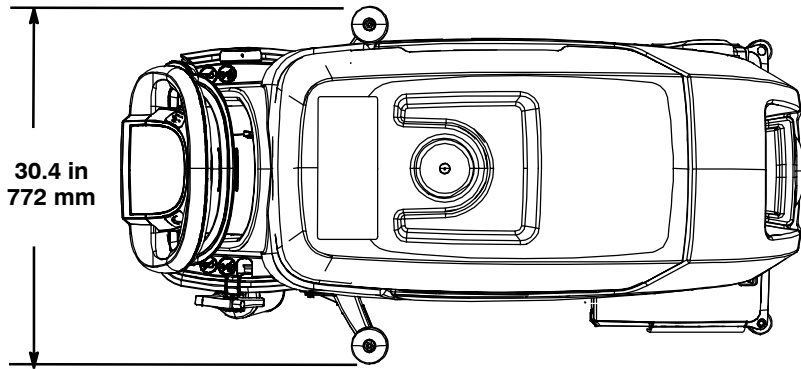


DUAL DISK MODEL



SPECIFICATIONS

CYLINDRICAL BRUSH MODEL



ORBITAL PAD MODEL

