



FaST
Foam Scrubbing Technology®

The Safe Scrubbing Alternative®

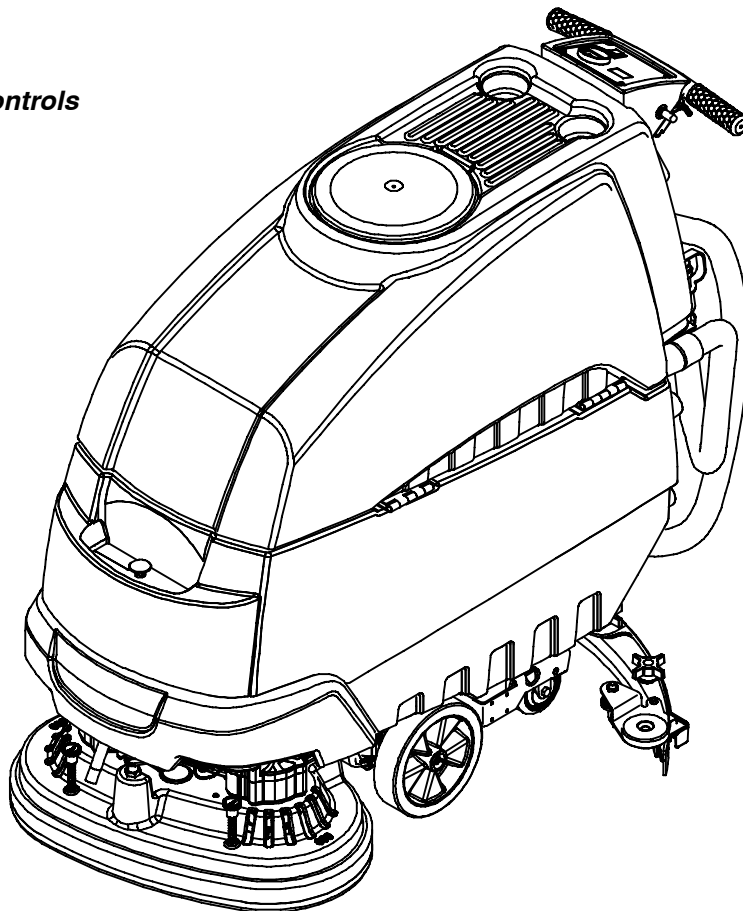
eC H₂O™
ELECTRICALLY CONVERTED WATER

Quick-Train™ Controls

SPEED SCRUB®

AUTOMATIC SCRUBBER

OPERATOR MANUAL



OPERATION

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 machine maintenance instructions provided.
- The machine is maintained with manufacturer supplied or equivalent parts.

Parts and supplies may be ordered online, by phone, by fax or by mail.



PROTECT THE ENVIRONMENT

Please dispose of packaging materials, old machine components such as batteries, hazardous fluids, including antifreeze and oil, in an environmentally safe way according to local waste disposal regulations.

Always remember to recycle.



MACHINE DATA

IMPORTANT: To ensure full warranty protection, fill out the attached MACHINE INSTALLATION / WARRANTY REPORT REPLY CARD and return to Tennant within 30 days of purchase.

Please fill out at time of installation for future reference.

Model No. - _____

Serial No. - _____

Machine Options - _____

Sales Rep. - _____

Sales Rep. phone no. - _____

Customer Number - _____

Installation Date - _____

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www.nobles.com

Specifications and parts are subject to change without notice.

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TABLE OF CONTENTS

SAFETY PRECAUTIONS	4	CHARGING BATTERIES	18
SAFETY LABELS	5	BATTERY CHARGER SPECIFICATIONS ...	18
MACHINE COMPONENTS	6	ON-BOARD BATTERY	
CONTROL PANEL COMPONENTS	7	CHARGER SETTINGS	18
MACHINE INSTALLATION	8	USING THE ON-BOARD	
UNCRATING MACHINE	8	BATTERY CHARGER	18
INSTALLING BATTERIES	8	ON-BOARD BATTERY CHARGER	
HOW THE MACHINE WORKS	9	ERROR CODES	20
BRUSH AND PAD INFORMATION	9	USING AN OFF-BOARD	
MACHINE SETUP	9	BATTERY CHARGER	21
ATTACHING SQUEEGEE ASSEMBLY	9	ADJUSTING SCRUB HEAD BRUSHES	21
INSTALLING BRUSHES/pads	10	DISK MODEL	21
INSTALLING FaST-PAK		CYLINDRICAL BRUSH MODEL	22
CARTON (FaST Model)	11	MACHINE MAINTENANCE	23
FILLING SOLUTION TANK	12	DAILY MAINTENANCE (After Every Use) ...	24
ADJUSTING control console HEIGHT	12	MONTHLY MAINTENANCE	25
MACHINE OPERATION	12	BATTERY MAINTENANCE	26
PRE-OPERATION CHECKS	12	SQUEEGEE BLADES	27
STARTING THE MACHINE	12	Replacing Squeegee Blades:	27
EMERGENCY STOPPING	14	MOTOR MAINTENANCE	27
WHILE OPERATING MACHINE	14	FaST SYSTEM MAINTENANCE	28
BATTERY METER	15	ec-H2O MODULE FLUSH PROCEDURE ...	28
HOUR METER	15	JACKING UP MACHINE	29
CIRCUIT BREAKERS / FUSES	15	TRANSPORTING MACHINE	29
OFF-AISLE WAND	16	STORING MACHINE	30
Preparing Machine for Off-Aisle		FREEZE PROTECTION	30
Wand Scrubbing:	16	RECOMMENDED STOCK ITEMS	31
Operating the Off-Aisle Wand:	16	TROUBLESHOOTING	32
DRAINING AND CLEANING TANKS	17	BATTERY METER LED FAULT CODES	34
DRAINING RECOVERY TANK	17	MACHINE SPECIFICATIONS	35
DRAINING SOLUTION TANK	17	MACHINE DIMENSIONS	36

SAFETY PRECAUTIONS

This machine is intended for industrial and commercial use. It is designed exclusively to scrub hard floors in an indoor environment and is not constructed for any other use. Only use recommended pads, brushes and commercially approved floor cleaners intended for machine application.

The following warning alert symbol and the “FOR SAFETY” heading 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 safety precautions signal potentially dangerous conditions to the operator or equipment. All operators must read, understand and practice them.

 **WARNING:** Fire Or Explosion Hazard

- Never Use Flammable Liquids Or Operate Machine In Or Near Flammable Liquids, Vapors Or Combustible Dusts.

This machine is not equipped with explosion proof motors. The electric motors 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.

- Do Not Pick Up Flammable Materials Or Reactive Metals.
- Batteries Emit Hydrogen Gas. Keep Sparks And Open Flame Away. Keep Battery Compartment Open When Charging.

 **WARNING:** Electrical Hazard

- Disconnect Battery Cables and Charger Plug Before Servicing Machine.
- Do Not Charge Batteries with Damaged Power Supply 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.

 **WARNING:** Spinning Brush. Keep Hands Away. Turn Off Power Before Working On Machine.

FOR SAFETY:

1. Do not operate machine:
 - With flammable liquids or near flammable vapors as an explosion or flash fire may occur.
 - Unless trained and authorized.
 - Unless operator manual is read and understood.
 - If not in proper operating condition.
2. Before starting machine:
 - Make sure all safety devices are in place and operate properly.
3. When using machine:
 - Go slow on inclines and slippery surfaces.
 - Wear non-slip shoes.
 - Reduce speed when turning.
 - Report machine damage or faulty operation immediately.
 - Never allow children to play on or around.
 - Follow mixing and handling instructions on chemical containers.
 - Do not operate on inclines that exceed 5% (3°).
4. Before leaving or servicing machine:
 - Stop on level surface.
 - Turn off machine.
 - Set parking brake, if equipped.
 - Remove key.
5. When servicing machine:
 - Avoid moving parts. Do not wear loose jackets, shirts, or sleeves.
 - Disconnect battery cables and charger plug before working on machine.
 - Wear protective gloves and eye protection when handling batteries or battery cables.
 - Avoid contact with battery acid.
 - Wear protective gloves and eye protection when handling white vinegar.
 - Do not power spray or hose off machine. Electrical malfunction may occur.
 - Jack machine up at designated locations only (See JACKING UP MACHINE).
 - Use hoist or jack that will support machine weight.
 - Use manufacturer supplied or approved replacement parts.
 - All repairs must be performed by a qualified service person.
 - Do not modify the machine from its original design.

6. When loading/unloading machine onto/off truck or trailer:
- Drain tanks before loading.
 - Use a ramp that can support the machine weight and person loading it. Do not exceed a 11° ramp incline at a ramp length of 12 ft (3.7m).

- Turn machine off.
- Put scrub head in the lowered position.
- Block machine wheels.
- Use tie-down straps to secure machine.
- Set parking brake, if equipped.

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.



BATTERY CHARGE LABEL -

Located on bottom side of recovery tank.

⚠ WARNING: Fire Or Explosion Hazard. Batteries Emit Hydrogen Gas. Keep Sparks And Open Flame Away. Keep Battery Compartment Open When Charging.

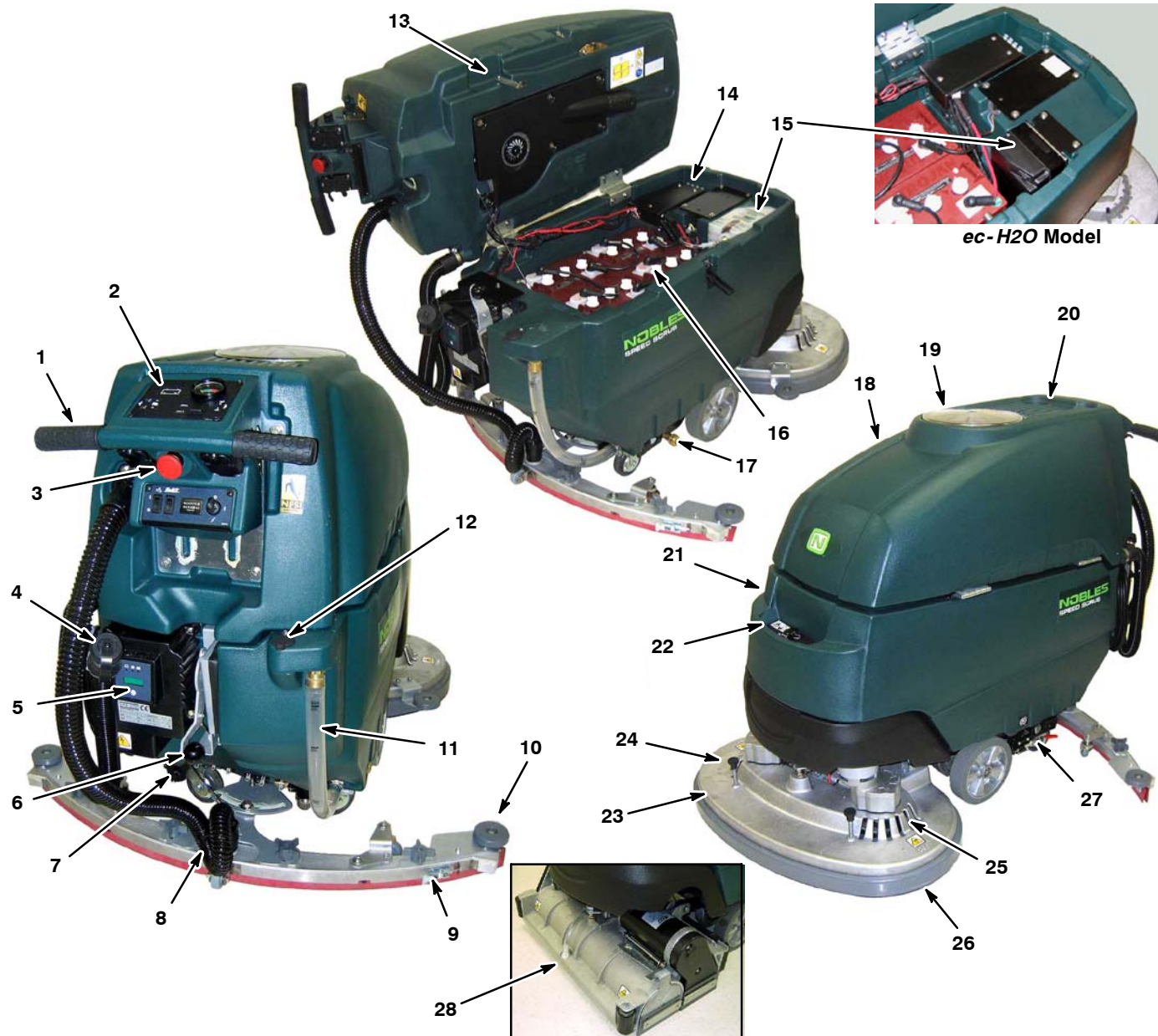


SPINNING BRUSH LABEL -

Located on scrub head

⚠ WARNING: Spinning Brush. Keep Hands Away. Turn Off Power Before Working On Machine.

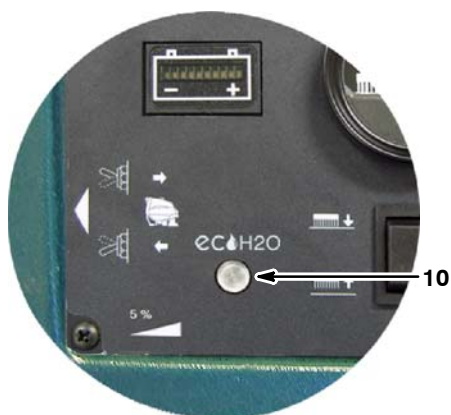
MACHINE COMPONENTS



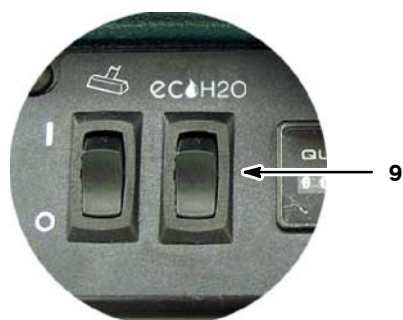
1. Adjustable Control Console
2. Control Panel
3. Emergency Stop Button (option)
4. Recovery Tank Drain Hose
5. On-board Battery Charger
6. Squeegee Lift Lever
7. Solution Flow Control Knob
8. Squeegee Vacuum Hose
9. Squeegee Assembly
10. Wall Rollers
11. Solution Tank Level/Drain Hose
12. Rear Fill Port
13. Recovery Tank Support Stand
14. Circuit Breaker Panel

15. FaST-PAK Carton Compartment (FaST Model)
ec-H2O System Module (ec-H2O Model)
16. Batteries
17. Off-Aisle Wand Solution Hose Coupler
18. Recovery Tank
19. Recovery Tank Cover
20. Cup Holders
21. Solution Tank
22. Front Fill Port
23. Disk Scrub Head
24. Pad Release Plunger
25. Pad Driver Window
26. Scrub Head Skirt
27. Parking Brake (option)
28. Cylindrical Brush Scrub Head

CONTROL PANEL COMPONENTS



ec-H2O Model



ec-H2O Model



1. Battery Meter
2. Reverse Trigger
3. Start Triggers
4. Brush Pressure Meter
5. Control Console Height Adjustment Lever
6. Speed Control Knob

7. Brush Pressure Switch
8. Off-Aisle Wand on/off Switch (option)
9. FaST System on/off Switch (FaST Model)
ec-H2O system on/off switch (ec-H2O Model)
10. *ec-H2O system indicator light (ec-H2O Model)*
11. Main Power on/off Key Switch
12. Hour Meter

OPERATION

MACHINE INSTALLATION

UNCRATING MACHINE

1. Carefully check the shipping crate for signs of damage. Report damage at once to carrier.
2. Check the contents list. Contact distributor for missing items.
Contents:
 - 4-6 V Batteries-Optional
 - 3-Battery Cable Jumpers
 - Battery Tray
 - 1-FaST-PAK 365 Concentrate-(FaST model)
 - Squeegee Assembly
 - 2-Pad drivers (Disk Model)
 - 2-Brushes (Cylindrical Brush Model)
3. To uncrate your machine, remove the shipping hardware and straps that secure the machine to the pallet. Carefully back machine down ramp.

ATTENTION: Do not roll machine off pallet unless a ramp is used, machine damage may occur.

ATTENTION: To prevent possible machine damage, install batteries *after* removing machine from shipping pallet.

INSTALLING BATTERIES

⚠ WARNING: Fire Or Explosion Hazard. Batteries Emit Hydrogen Gas. Keep Sparks And Open Flame Away. Keep Battery Hood Open When Charging.

FOR SAFETY: When installing batteries, wear protective gloves and eye protection. Avoid contact with battery acid.

Battery Specifications:

Four 6 volt, 235A/20h deep cycle batteries. Maximum battery dimensions:
7.5 in / 190 mm W x 10.8 in / 275 mm L x 11.2 in / 284 mm H.

1. Park the machine on a level surface, remove the key and set the parking brake, if equipped.

2. Carefully install the batteries into the battery compartment tray (Figure 1). Arrange the battery posts as shown (Figure 2).



FIG. 1

3. Connect the battery cables to the battery posts as shown (Figure 2), RED TO POSITIVE (+) and BLACK TO NEGATIVE (-).

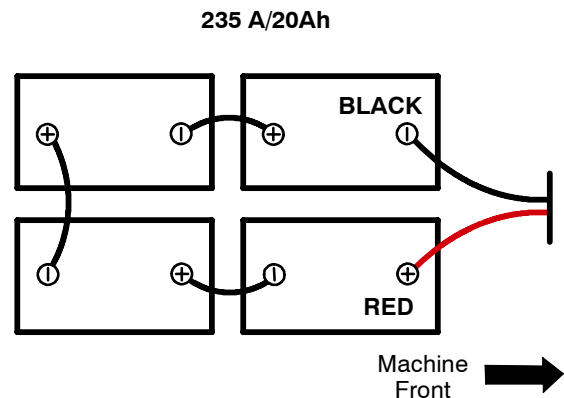


FIG. 2

IMPORTANT: If your machine is equipped with the on-board battery charger, make sure that the charger is properly set for your battery type before charging (See ON-BOARD CHARGER SETTINGS).

HOW THE MACHINE WORKS

Conventional Scrubbing:

Water and detergent from the solution tank flow to the floor through a solution valve. The brushes use the detergent and water to scrub the floor clean. As the machine moves forward, the squeegee wipes the dirty solution from the floor into the recovery tank.

Foam Scrubbing (FaST Model):

(FaST-Foam activated Scrubbing Technology)

Unlike conventional scrubbing, the FaST system injects the FaST-PAK concentrate formula with a small amount of water and air onto the floor. The mixture creates a large volume of expanded wet foam for the brush to scrub the floor clean. As the machine moves forward, the foam collapses and the squeegee recovers the dirty solution into the recovery tank leaving the floor clean, dry and slip free.

ec-H₂O Scrubbing (ec-H₂O Model):

(ec-H₂O-electrically converted water)

Normal water passes through a module where it is oxygenated and charged with an electric current. The electrically converted water changes into a blended acidic and alkaline solution forming a neutral pH cleaner. The converted water attacks the dirt, breaks it into smaller particles, and pulls it off the floor surface 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 type for your cleaning application. Refer to the Parts manual for part number information.

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.

Soft Nylon Bristle Scrub Brush (White) -

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

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 and 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.

MACHINE SETUP

ATTACHING SQUEEGEE ASSEMBLY

1. Park the machine on a level surface, remove the key and set the parking brake if equipped.
2. Lift the squeegee lift lever to the upward position (Figure 3).



FIG. 3

3. Mount the squeegee assembly to the squeegee pivot bracket and secure with knobs (Figure 4).



FIG. 4

OPERATION

4. Connect the vacuum hose to the squeegee assembly. Loop the hose as shown using the hose clip provided (Figure 5).

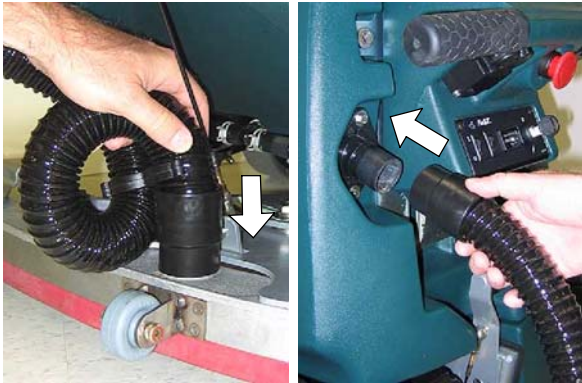


FIG. 5

5. Check the squeegee blades for proper deflection. The blades should deflect as shown (Figure 6).



FIG. 6

6. To adjust the blade deflection, place the squeegee assembly on a level surface and adjust the casters as shown (Figure 7).

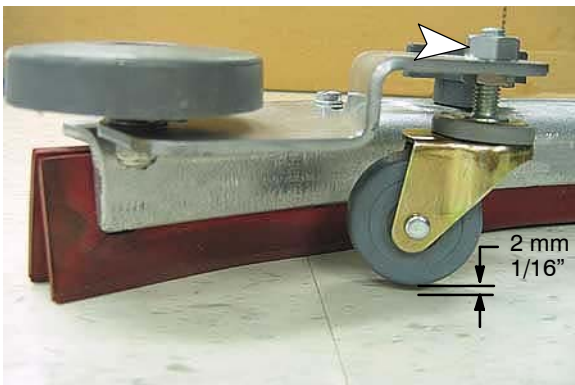


FIG. 7

INSTALLING BRUSHES/PADS

FOR SAFETY: Before installing brushes or pad drivers, stop machine on level surface, remove key and set parking brake if equipped.

Disk Model:

1. Raise scrub head off the floor and remove key.
2. Attach the pad to the pad driver before installing the driver. Secure pad with centerlock (Figure 8).

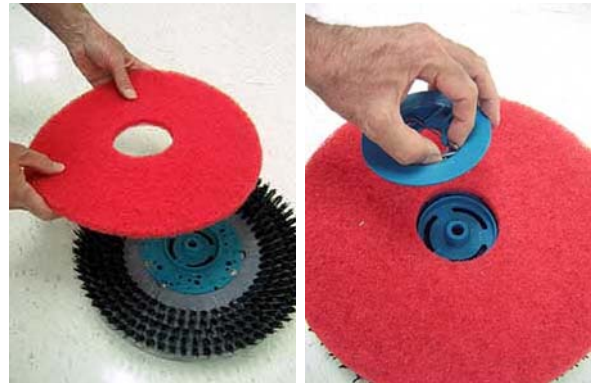


FIG. 8

3. Align the pad driver under the motor hub and push it upward to engage (Figure 9).



FIG. 9

4. To remove the pad driver, raise the scrub head and push the pad release plunger downward (Figure 10).



FIG. 10

5. Check the scrub head to ensure that it is properly adjusted (See ADJUSTING SCRUB HEAD BRUSHES).

Cylindrical Brush Model:

1. Raise scrub head off the floor and remove key.
2. Remove idler plate from scrub head by pressing the spring tab downward (Figure 11).



FIG. 11

3. Attach idler plate to the brush end that has the double row of bristles (Figure 12). Install brush.



FIG. 12

4. Check the brushes to ensure they are properly adjusted (See ADJUSTING SCRUB HEAD BRUSHES).

INSTALLING FaST-PAK CARTON (FaST Model)

ATTENTION: The FaST-PAK Concentrate Formula is specifically designed for the FaST system. **NEVER** use a substitute. Machine damage may result.

1. Pull out the hose connector from the FaST-PAK carton and remove cap (Figure 13).



FIG. 13

2. Open the battery compartment. Connect the FaST-PAK carton to the supply hose and place carton in compartment (Figure 14). **Make sure the hose does not get pinched.**

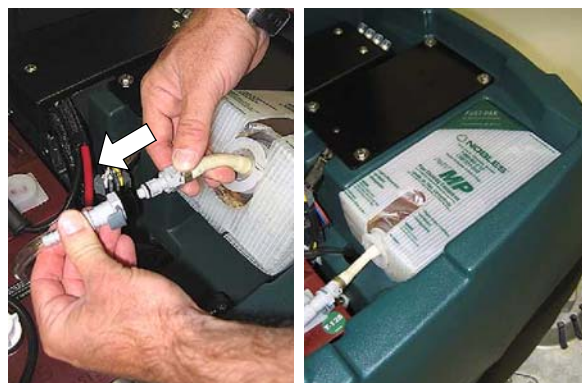


FIG. 14

3. When the supply hose is not in use, connect the storage plug to prevent the FaST system from drying out and clogging up the hose. (Figure 15).

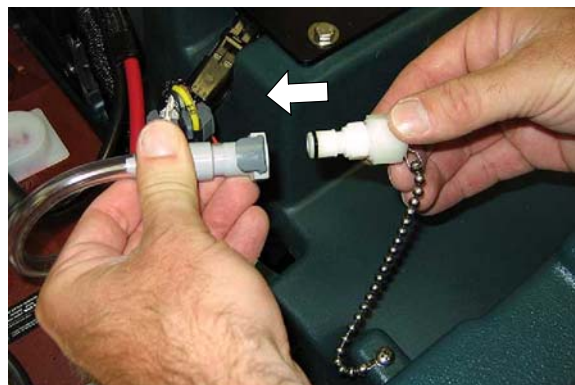


FIG. 15

OPERATION

FILLING SOLUTION TANK

Using a hose or bucket, fill the solution tank to the "MAX 85L" mark (Figure 16).

For 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.

For FaST or *ec-H2O* Scrubbing: Use cool clean water only (less than 70°F/21°C). Do not add any conventional floor cleaning detergents, system failure may result.



FIG. 16

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

⚠ WARNING: Fire or Explosion Hazard. Never Use Flammable Liquids.

ADJUSTING CONTROL CONSOLE HEIGHT

Pull the control console height adjustment lever and lift or lower the console to a comfortable operating height. Release lever to lock in position (Figure 17).

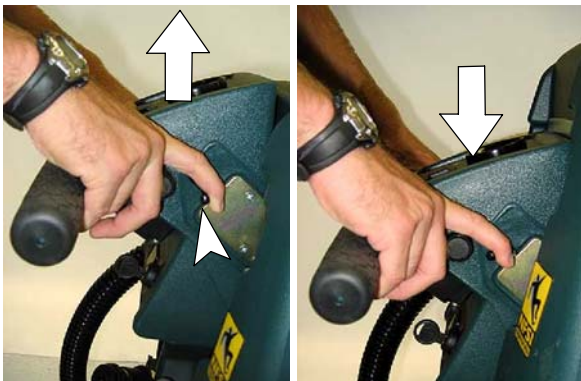


FIG. 17

MACHINE OPERATION

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

⚠ WARNING: Fire Or Explosion Hazard. Never Operate Machine In Or Near Flammable Liquids, Vapors Or Combustible Dusts.

PRE-OPERATION CHECKS

- ☐ Sweep area.
- ☐ Check the battery meter.
- ☐ Check the brushes/pads for wear.
- ☐ Check the squeegee blades for wear and proper adjustment.
- ☐ Make sure the recovery tank is empty and the float shut-off screen is installed and clean.
- ☐ Check the scrub head skirt for wear.
- ☐ **For FaST Scrubbing:** Check the FaST-PAK concentrate level.
- ☐ **For FaST or *ec-H2O* Scrubbing:** Make sure the solution tank is filled with cool clean water only.
- ☐ **For FaST or *ec-H2O* Scrubbing:** Ensure that all conventional cleaning agents are drained and rinsed from solution tank.

STARTING THE MACHINE

1. Release the parking brake if equipped (Figure 18).
2. Turn the key to the on (I) position (Figure 18).



FIG. 18

3. **FaST model:** press the FaST system switch to the on (I) position (Figure 19).

***ec-H2O* model:** press the *ec-H2O* system switch to the on (I) position (Figure 19).

NOTE: The *ec-H2O* system indicator light will not turn on until the machine starts scrubbing.

IMPORTANT: NEVER turn the FaST/ec-H₂O system switch on when conventional scrubbing. Conventional cleaning detergents/restorers may cause failure to the FaST/ec-H₂O solution system. Drain, rinse and refill solution tank with cool clean water before operating the FaST/ec-H₂O system.



FIG. 19

4. Lower the squeegee assembly to the floor by lowering the squeegee lift lever (Figure 20).



FIG. 20

5. Lower the scrub head to the floor by pressing the brush pressure button (Figure 21).



FIG. 21

6. Pull the triggers to begin scrubbing (Figure 22). To reverse the machine, simply pull the reverse trigger. Raise squeegee when reversing machine.

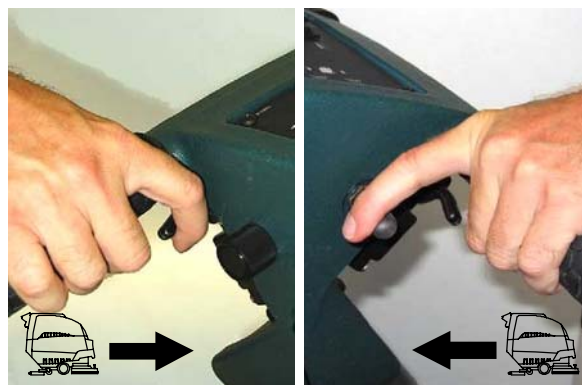


FIG. 22

7. Adjust the speed control knob to a desired scrubbing speed (Figure 23).

NOTE: 148–197 feet / 45–60 meters per minute is the recommended scrubbing speed.



FIG. 23

8. Check the brush pressure meter reading and adjust the pressure if needed (Figure 24). Do not operate the machine in the red zone, floor damage or brush motor overload may result.



FIG. 24

OPERATION

9. For conventional scrubbing, adjust the solution flow control knob to a desired flow rate (Figure 25).

NOTE: For the FaST and ec-H2O models, the solution flow rate is fixed and requires no adjustment. The ec-H2O module has optional flow rate settings. If solution flow adjustments are required, contact an Authorized Service Center.



FIG. 25

10. To stop scrubbing, release the triggers, raise the scrub head and squeegee and turn the key to the off position.

EMERGENCY STOPPING

Strike the emergency stop button, if equipped, in the event of an emergency (Figure 26). This button shuts off all power to machine. To regain power, turn the button clockwise.



FIG. 26

WHILE OPERATING MACHINE

⚠ WARNING: Fire Or Explosion Hazard. Do Not Pick Up Flammable Materials Or Reactive Metals.

1. Overlap each scrub path by 2 in / 5 cm.
2. Keep the machine moving to prevent damage to floor finish.
3. Do not operate the machine on inclines that exceed 5% (3°). 
4. Conventional scrubbing: Pour a commercially approved foam control solution into the recovery tank if excessive foam appears.

ATTENTION: Do not allow foam to enter the float shut-off screen located in the recovery tank, vacuum motor damage will result. Foam will not activate the float shut-off screen.

5. For heavily soiled areas, use the double scrubbing method. 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.
6. When leaving the machine unattended, remove the key and set the parking brake, if equipped.
7. If the machine detects a fault, the battery meter will blink a fault code (See BATTERY METER LED FAULT CODES).
8. **ec-H2O Model:** If an alarm sounds and the ec-H2O system indicator light begins to blink red, the ec-H2O module must be flushed to resume ec-H2O operation (See ec-H2O MODULE FLUSH PROCEDURE) (Figure 27).

NOTE: When the alarm sounds and the light blinks red, the machine will bypass the ec-H2O system. To continue scrubbing, turn the ec-H2O switch off and change over to conventional scrubbing.

ATTENTION: (ec-H2O model) Do not allow solution tank to run dry. ec-H2O module failure may result if operated without water for an extended period.



FIG. 27

ec-H₂O SYSTEM INDICATOR LIGHT CODE	CONDITION
Solid green	Normal operation
Blinking red	Flush ec-H ₂ O module
Solid red	Contact Service Center

BATTERY METER

The battery meter displays the charge level of the batteries (Figure 28). When the batteries are fully charged, all indicator lights will glow. As the batteries discharge, the indicator lights will begin to go out from right to left.

When the discharge level reaches the first red light (Figure 28), stop scrubbing and recharge the batteries. If you continue to operate the machine beyond the first red light, the scrubbing function will automatically shut off when the last red light begins to blink. This protects the batteries from total discharge. Drive the machine to the charging area and recharge the batteries immediately.

NOTE: The battery meter will also display machine fault codes. If a fault is detected the LED bars will flash specific fault codes (See BATTERY METER LED FAULT CODES).

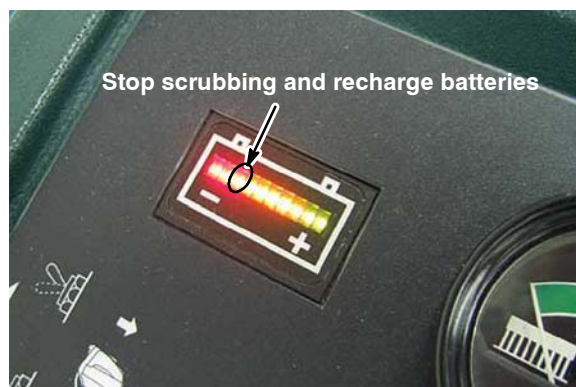


FIG. 28

OUR METER

The hour meter records the number of total hours the brush motors have been powered on. Use the hour meter to determine when to perform recommended maintenance procedures and to record service history (Figure 30). See MACHINE MAINTENANCE.



FIG. 29

CIRCUIT BREAKERS / FUSES

The machine is equipped with four resettable circuit breakers and four fuses to protect the machine from damage. If a breaker should trip, determine the cause, allow the motor to cool then manually reset the circuit breaker button. The circuit breaker panel is located near the battery compartment (Figure 30). The fuses are located inside the circuit breaker box. When replacing a fuse never substitute a higher Amp rated fuse than specified.

CIRCUIT BREAKERS:

- 10 A - Main (A)
- 25 A - Vacuum motor (B)
- 25 A - Left brush motor (C)
- 25 A - Right brush motor (D)

FUSES:

- 100 A - Main
- 30 A - Propel motor
- 7.5 A - FaST system
- 7.5 A - Off-aisle wand pump (located in control console)

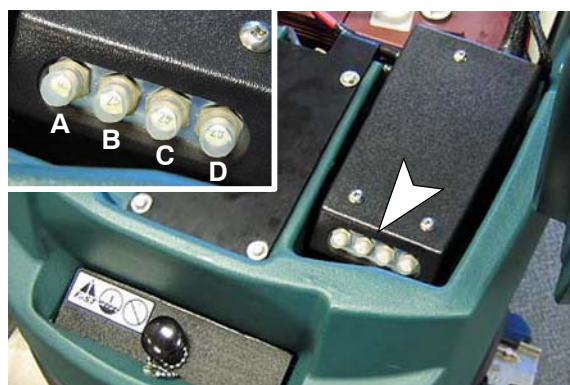


FIG. 30

OPERATION

OFF-AISLE WAND

If your machine is equipped with the off-aisle wand option, this allows you to scrub areas where the machine is unable to reach.

Preparing Machine for Off-Aisle Wand Scrubbing:

1. Park the machine on a level surface, turn key off and set parking brake if equipped.
2. Connect the solution hose to the coupler at the lower right side of machine (Figure 31).



FIG. 31

3. Using the hose adapter, connect the squeegee hose to the wand hose (Figure 32).

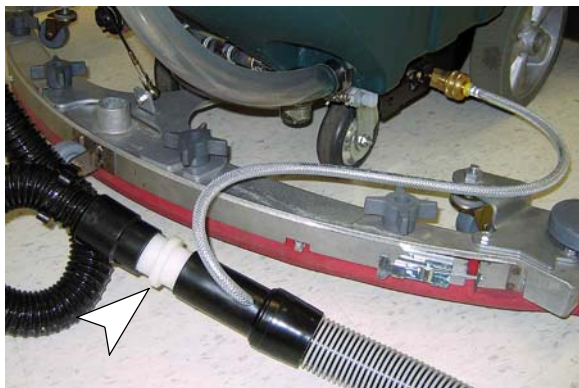


FIG. 32

4. Attach the off-aisle wand to the hoses (Figure 33).



FIG. 33

Operating the Off-Aisle Wand:

1. Turn the key and wand switch to the on (I) position (Figure 34). The FaST/ec-H2O system switch is disabled when operating the wand.



FIG. 34

2. Lower the squeegee to activate the vacuum motor (Figure 35).



FIG. 35

3. Squeeze trigger to activate solution. Use brush for scrubbing and squeegee for pickup (Figure 36).



FIG. 36

4. After scrubbing, turn off the wand switch and squeeze the trigger for five seconds to relieve the water pressure before disconnecting the solution hose.

⚠ WARNING: Fire or Explosion Hazard. Do Not Pick Up Flammable Materials Or Reactive Metals.

DRAINING AND CLEANING TANKS

After each use, the tanks should be drained and cleaned.

DRAINING RECOVERY TANK

1. Transport machine to disposal area and turn key switch off.
2. While holding the drain hose upward, remove the cap and lower hose to drain (Figure 37).



FIG. 37

3. Remove the recovery tank cover and rinse out the tank (Figure 38).



FIG. 38

4. Clean the float shut-off screen located inside the recovery tank (Figure 39).



FIG. 39

DRAINING SOLUTION TANK

1. To drain remaining water from the solution tank, pull the solution tank level hose off the hose fitting (Figure 40).



FIG. 40

2. On a monthly basis, remove the solution tank filter from underneath the machine and rinse out the screen (Figure 41). Make sure the solution tank is empty before removing filter.

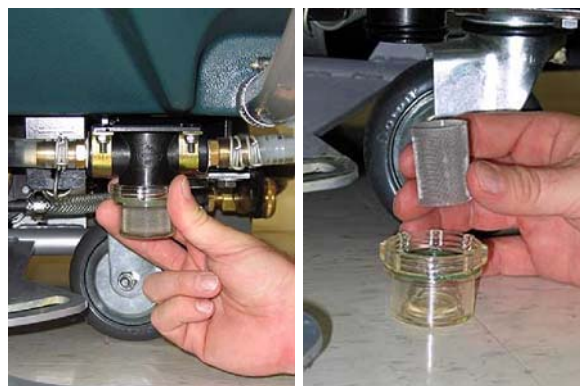


FIG. 41

OPERATION

CHARGING BATTERIES

ATTENTION: To prolong the life of the batteries only recharge the batteries if the machine was used for a total of 30 minutes or more. Do not leave batteries discharged for lengthy periods.

⚠ WARNING: Fire Or Explosion Hazard. Batteries Emit Hydrogen Gas. Keep Sparks And Open Flame Away. Keep Battery Compartment Open When Charging.

FOR SAFETY: When servicing batteries, wear protective gloves and eye protection when handling batteries and battery cables. Avoid contact with battery acid.

BATTERY CHARGER SPECIFICATIONS

- CHARGER TYPE:
 - FOR SEALED (Gel) BATTERIES
 - FOR WET (Lead acid) BATTERIES
- OUTPUT VOLTAGE - 24 VOLTS
- OUTPUT CURRENT - 20 AMPS
- AUTOMATIC SHUTOFF CIRCUIT
- FOR DEEP CYCLE BATTERY CHARGING

ON-BOARD BATTERY CHARGER SETTINGS

If your machine is equipped with the on-board charger, the charger settings must be set for your battery type before charging. Failure to properly set will result in battery damage.

To determine your battery type, see battery label. Contact your battery supplier if not specified.

To verify the setting of the charger, connect the charger cord into an electrical receptacle. The charger will display a sequence of codes. One of the codes will either read "GEL" or "Acid" (Figure 42).

GEL = Set for sealed/maintenance free batteries
Acid = Set for wet/lead acid batteries



FIG. 42

To change the setting, unplug the charger, peel up the corner of the display label and set the switches accordingly (Fig. 43). The charger cord must be unplugged when resetting.



FIG. 43

USING THE ON-BOARD BATTERY CHARGER

IMPORTANT: Before charging, make sure that the charger setting is properly set for your battery type (See ON-BOARD CHARGER SETTINGS).

1. Transport the machine to a well-ventilated area.
2. Park the machine on a flat, dry surface. Turn the key off and set the parking brake, if equipped.
3. If charging wet (lead acid) batteries check the fluid level before charging (See BATTERY MAINTENANCE).
4. Open the battery compartment and attach the red handle battery connector harness to the battery charger connector as shown (Figure 44).

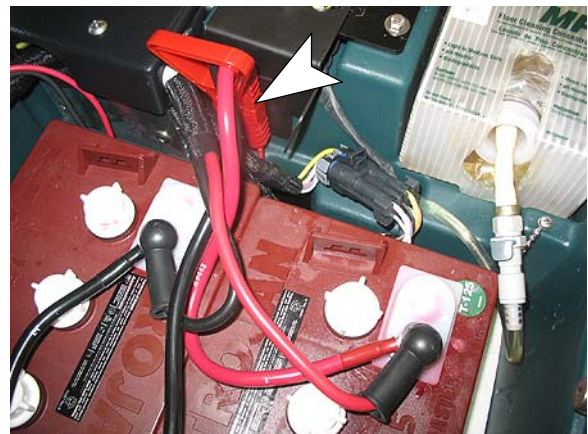


FIG. 44

- Unwrap the battery charger's AC power cord from storage hooks located on the underside of the recovery tank (Figure 45).



FIG. 45

- Connect the charger's AC power supply cord into a properly grounded receptacle (Figure 46).

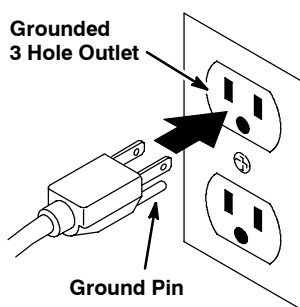


FIG. 46

- Using the support stand, prop up the recovery tank to allow for proper ventilation when charging batteries (Figure 47). As a safety feature, if the recovery tank is completely lowered, the red handle battery harness connector will disengage stopping the charge cycle.

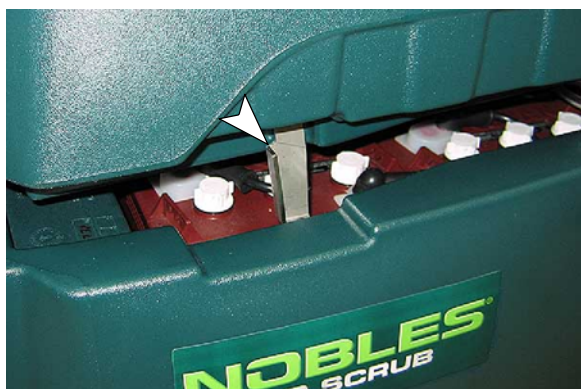


FIG. 47

⚠ WARNING: Fire Or Explosion Hazard. Batteries Emit Hydrogen Gas. Keep Sparks And Open Flame Away. Keep Battery Hood Open When Charging.

NOTE: The machine will not operate when charging.

- At start up, the charger will display a sequence of codes (Figure 48).

Three-digits + the following code:

A = Charging current

U = Battery voltage

h = Charging time

C = Charging ampere-hours [Ah]

E = Energy used [Kwh]

"GEL" or "Acd" = Battery type the charger is currently set for. Before charging make sure your battery type matches the display: GEL=Sealed, Acd=Wet (lead acid). To change setting, see ON-BOARD CHARGER SETTINGS.

Press the arrow button to review the codes.



FIG. 48

- When the charging cycle begins, the indicator lights will progress from red, yellow to green. When the green indicator light comes on, the charging cycle is done.

If the charger detects a problem, the charger will display an error code (See ON-BOARD BATTERY CHARGER ERROR CODES).

- When the charge cycle is complete, unplug the AC cord and return cord to storage hooks then disconnect the red handle battery connector (Figure 49).



FIG. 49

OPERATION

ON-BOARD BATTERY CHARGER ERROR CODES

DISPLAY CODE	FAULT	SOLUTION
bat	Loose or damaged battery cable	Check battery cable connections.
	Battery exceeded maximum voltage level.	No action necessary.
E01	Exceeded maximum battery voltage allowed.	No action necessary.
E02	Safety thermostat exceeded maximum internal temperature.	Check if the charger vents are obstructed.
E03	Exceeded maximum time for charging phase leaving the batteries undercharged due to a sulfated or faulty battery.	Repeat the charging cycle and if the error code E03 reappears check battery or replace it.
SCt	Safety timer exceeded maximum charging time. Interrupts charging cycle.	Replace battery.
Srt	Possible internal short circuit.	Contact Service Center.

USING AN OFF-BOARD BATTERY CHARGER

1. Transport the machine to a well-ventilated area.
2. Park the machine on a flat, dry surface. Turn the key off and set the parking brake, if equipped.
3. If charging wet (lead acid) batteries, check the fluid level before charging (See BATTERY MAINTENANCE).
4. Prop up the recovery tank for ventilation (Figure 50).

⚠ WARNING: Fire Or Explosion Hazard. Batteries Emit Hydrogen Gas. Keep Sparks And Open Flame Away. Keep Battery Hood Open When Charging.



FIG. 50

5. Connect the charger's AC power supply cord into a properly grounded receptacle.
6. Connect the charger's DC cord into the machine's battery receptacle (Figure 51).



FIG. 51

7. The supplied charger will automatically begin charging and shut off when fully charged.

NOTE: The machine will not operate when charging.

ATTENTION: Do not disconnect the 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.

ADJUSTING SCRUB HEAD BRUSHES

To ensure optimum scrubbing performance periodically check the scrub head for proper adjustment.

FOR SAFETY: Before adjusting scrub head, stop machine on level surface, remove key and set parking brake if equipped.

DISK MODEL

Tools required: Measuring device, 1-1/16 in / 27 mm wrench and 15/16 in / 24mm wrench

1. With brushes installed, lower the scrub head and apply medium brush pressure.
2. Turn machine off and remove key.
3. From the center front and back of scrub head, measure the distance from the top edge of scrub head to the floor (Figure 52).



FIG. 52

4. If scrub head is not level, loosen the lock nut and turn the scrub head leveling screw to level. Tighten down the lock nut once head is level (Figure 53).



FIG. 53

CYLINDRICAL BRUSH MODEL

After installing a new set of cylindrical brushes check the brush pattern to ensure proper brush adjustment. Brushes that are not properly adjusted will result in premature wear and poor scrubbing performance (Figure 54).

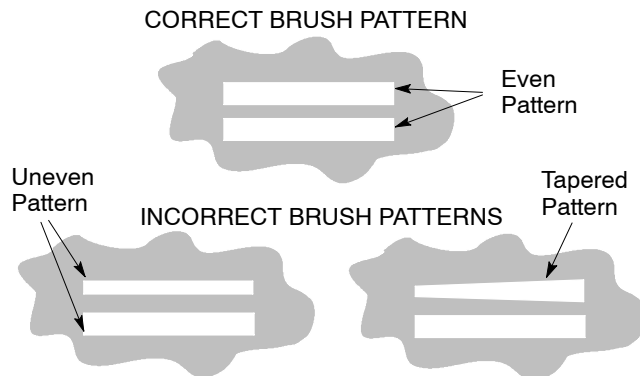


FIG. 54

To Inspect the Brush Pattern:

1. Position the machine on a dry dusty floor or apply a powdered substance, such as chalk.
2. Disconnect the drive motor wire connector to keep machine from moving forward (Figure 55).

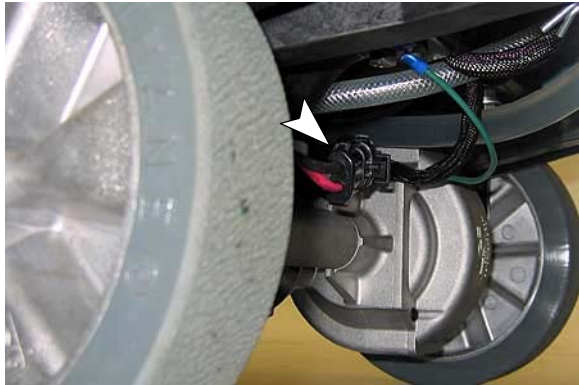


FIG. 55

3. Lower the scrub head to the floor and apply maximum brush pressure.
4. Shut off the solution flow.
5. Pull the triggers to create a brush pattern on the floor.
6. Raise the scrub head and pull the machine away.
7. Observe the brush pattern on floor. If the brush pattern is uneven or tapered, adjustment is required.
8. Reconnect drive motor wire.

To Adjust an Uneven Brush Pattern:

Tools required: Measuring device, 1-1/16 in / 27 mm wrench and 15/16 in / 24mm wrench

1. Measure the distance from the front edge of the scrub head to the floor and from the back edge of the scrub head to the floor (Figure 56). The measurements should be the same.



FIG. 56

2. To level the scrub head, loosen the lock nut and turn the leveling screw clockwise to lower the rear of the scrub head or counter-clockwise to lower the front (Figure 57).

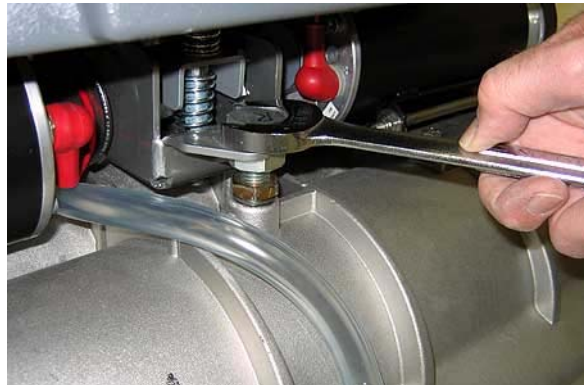


FIG. 57

3. Recheck brush pattern.

NOTE: Replace brush when bristles are worn to 5/8 in / 15 mm.

To Adjust a Tapered Brush Pattern:

Tools required: 3/8 in / 10mm wrench and 6mm hex wrench

1. Raise the scrub head off floor and remove key.
2. Remove the idler plate from the brush (Figure 58).



FIG. 58

3. Hold the brush plug shaft with a wrench and loosen the 6mm hex screw (Figure 59).



FIG. 59

4. To lower the brush end, turn the shaft clockwise for the front brush and counter-clockwise for the rear brush. Retighten hex screw (Figure 60).



FIG. 60

5. Recheck brush pattern.

NOTE: Replace brushes when bristles are worn to 5/8 in / 15 mm.

MACHINE MAINTENANCE

To keep the machine in good working condition, it's important that the following maintenance procedures are performed on a routine basis.

⚠ WARNING: Electrical Hazard. Disconnect Battery Cables Before Servicing Machine.

DAILY MAINTENANCE (After Every Use)

1. Drain the recovery tank (Figure 61).



FIG. 61

2. Rinse out the recovery tank (Figure 62).



FIG. 62

3. Remove the recovery tank float shut-off screen and clean (Figure 63).



FIG. 63

OPERATION

4. Drain the solution tank (Figure 64).



FIG. 64

5. Rotate pad or replace when worn (Figure 65).

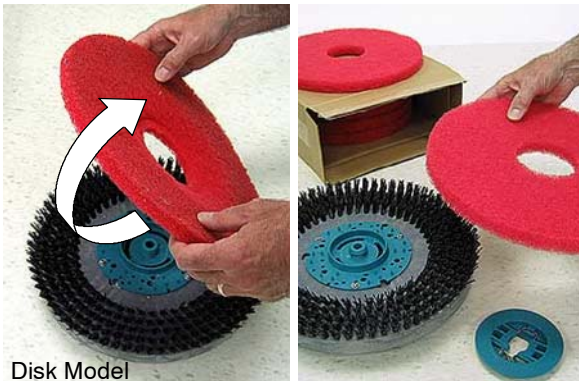


FIG. 65

6. Empty and rinse out the debris trough (Figure 66).

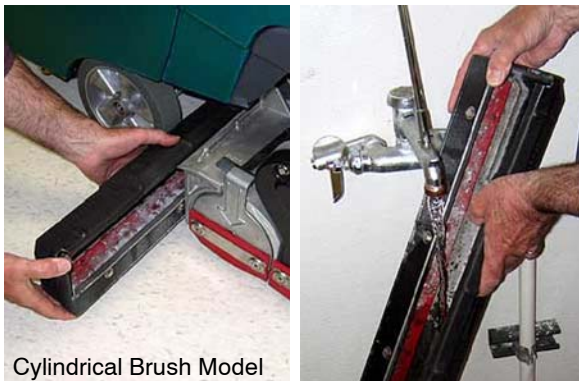


FIG. 66

7. Inspect the cylindrical brushes for wear. Rotate brushes from front-to-rear every 50 hours (Figure 67). Replace when worn to a length of 5/8 in / 15 mm.

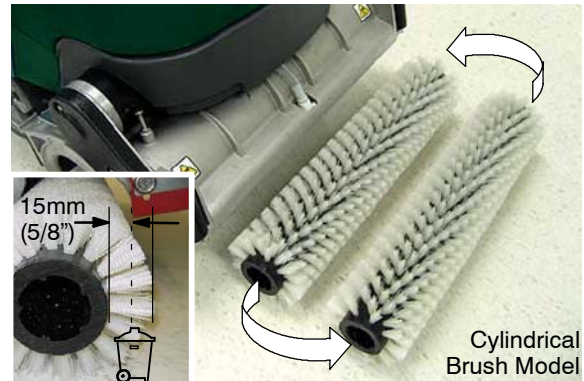


FIG. 67

8. Remove debris buildup from the underside of the cylindrical brush scrub head, including the idler plates and drive hubs (Figure 68).

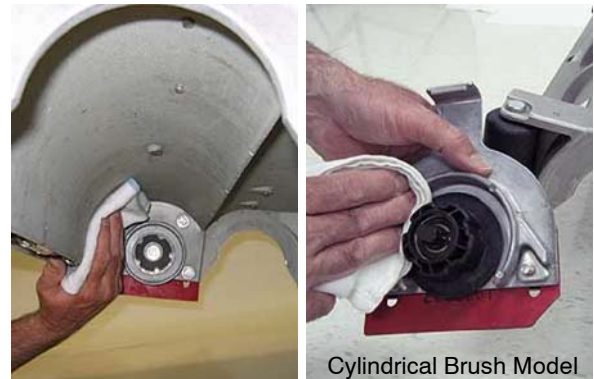


FIG. 68

9. Wipe the squeegee blades clean (Figure 69). Store the squeegee assembly in the raised position to prevent blade damage.



FIG. 69

10. Check the condition of the squeegee blade wiping edge (Figure 70). Rotate blade if worn (See SQUEEGEE BLADES).



FIG. 70

11. Clean the machine with an all purpose cleaner and damp cloth (Figure 71).

FOR SAFETY: When cleaning machine, do not power spray or hose off machine. Electrical malfunction may occur.



FIG. 71

12. Inspect the condition of the scrub head skirt, replace if worn or damaged (Figure 72).

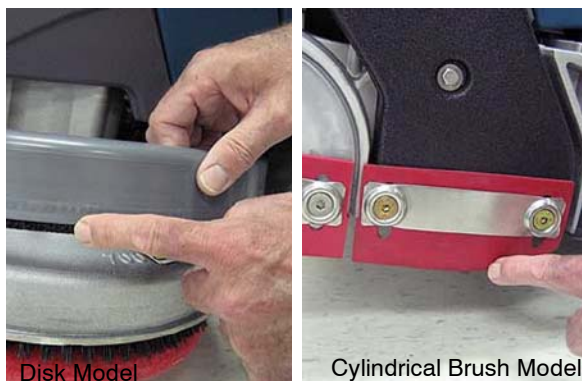


FIG. 72

13. FaST Model: Connect the FaST-PAK supply hose to the storage plug when not in use (Figure 73). Remove any dried concentrate from the hose connector by soaking it in warm water.

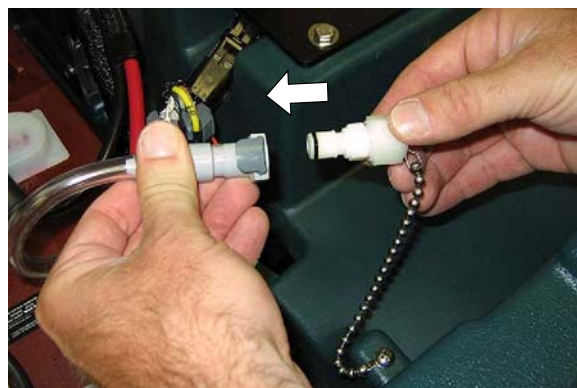


FIG. 73

14. Clean wet/lead acid batteries to prevent corrosion and check for loose battery cable connections (See BATTERY MAINTENANCE).
15. Recharge the batteries (Figure NO TAG) after a total of 30 minutes of use or more.

MONTHLY MAINTENANCE

1. Remove the solution tank filter from underneath the machine and rinse out the screen (Figure 74). Make sure the solution tank is empty before removing filter.

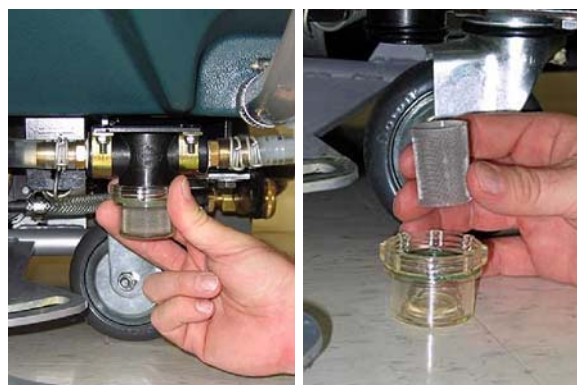


FIG. 74

OPERATION

- Periodically check the belt tension on the two brush motors. Tighten the belt if you're able to twist it beyond 90° at midpoint (Figure 75).

⚠ WARNING: Electrical Hazard. Disconnect Battery Cables Before Servicing Machine.

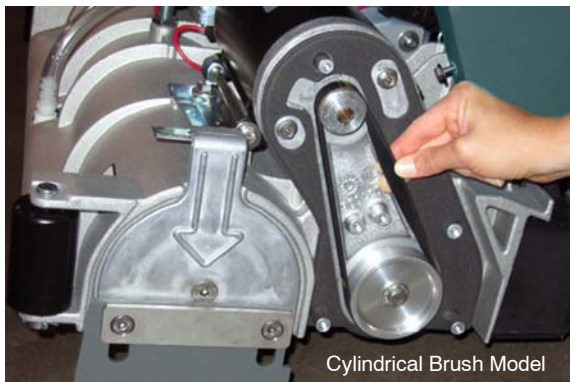


FIG. 75

- Inspect and clean the recovery tank cover seal (Figure 76). Replace if damaged.



FIG. 76

- Lubricate all pivot points and rollers with a water resistant grease.
- Lubricate the casters with a water resistant grease (Figure 77).



FIG. 77

- Clean the parking brake clamp with a cleaning solvent.
- Check the machine for loose nuts and bolts.
- Check the machine for leaks.

BATTERY MAINTENANCE (Wet/lead acid batteries)

- Check battery fluid level frequently to prevent battery damage. The fluid should be at the level shown (Figure 78). Add distilled water if low. DO NOT OVERFILL, the fluid may expand and overflow when charging.



CORRECT BATTERY FLUID LEVEL:

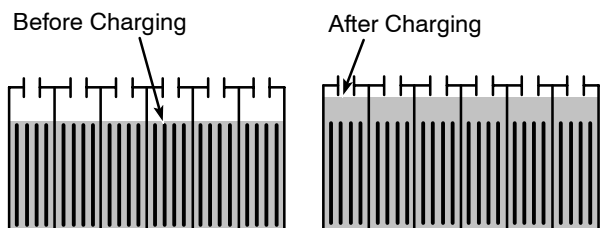


FIG. 78

⚠ WARNING: Fire Or Explosion Hazard. Batteries Emit Hydrogen Gas. Keep Sparks And Open Flame Away. Keep Battery Compartment Open When Charging.

- Clean the batteries to prevent battery corrosion. Use a scrub brush with a mixture of baking soda and water (Figure 79).

FOR SAFETY: When cleaning batteries, wear protective gloves and eye protection. Avoid contact with battery acid.



FIG. 79

SQUEEGEE BLADES

When the blades become worn, simply rotate the blades end-for-end or top-to-bottom to a new wiping edge. Replace blades when all edges are worn.

The front blades on the 28 in / 700 mm and 32 in / 800mm squeegee assemblies have 12/14 slots on one edge and 6 slots on the opposite edge (Figure 80). If making sharp turns with the cylindrical brush models use the 12/14 slotted edge for maximum water pickup.

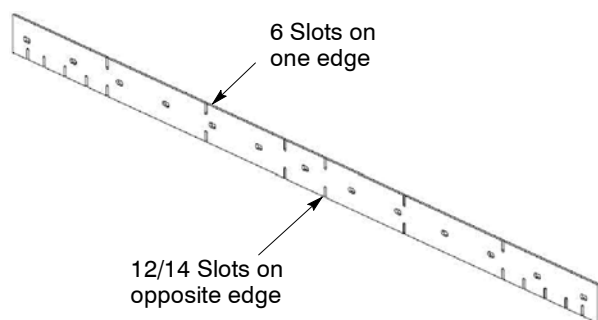


FIG. 80

Replacing Squeegee Blades:

1. Loosen the band clamp and remove the band from the squeegee assembly (Figure 81).

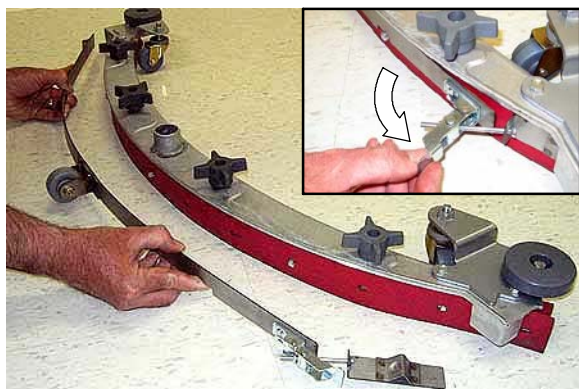


FIG. 81

2. Replace or rotate the rear blade to a new wiping edge and replace band (Figure 82).

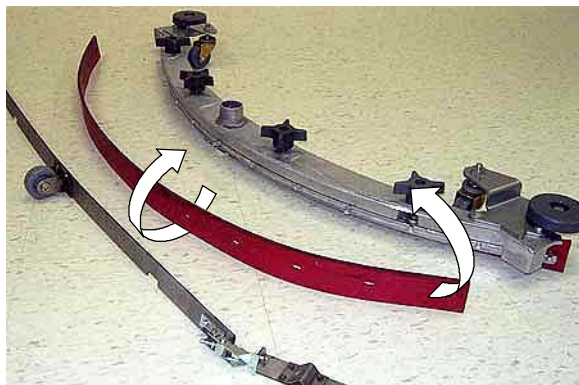


FIG. 82

3. To change the front blade, remove the band and loosen the four knobs. Replace or rotate the front blade to a new wiping edge (Figure 83)

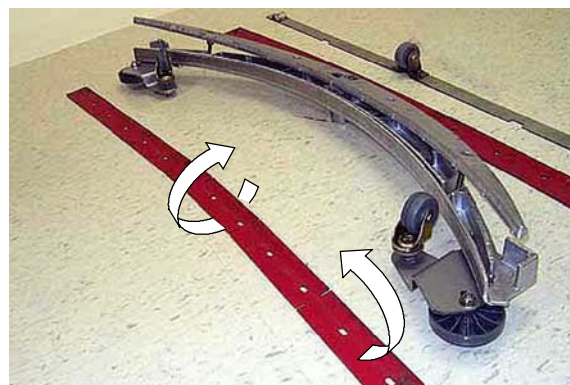


FIG. 83

MOTOR MAINTENANCE

Contact an Authorized Tennant Service Center for carbon brush replacement.

Carbon Brush Replacement	Hours
Drive Transaxle Motor	750
Vacuum Motor	
Disk Brush Motors	
Cylindrical Brush Motors	1000

⚠ WARNING: Electrical Hazard. Disconnect Battery Cables Before Servicing Machine.

FaST SYSTEM MAINTENANCE

Every 1000 hours replace the water filter and air filter located in the FaST detergent injector. Order filter kit p/n 9003009.

1. To access the detergent injector assembly, lower the scrub head and remove the front shroud (Figure 84)

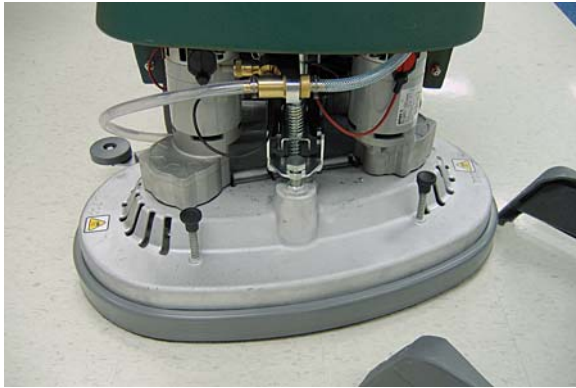


FIG. 84

2. Remove the injector assembly from clamps (Figure 85).



FIG. 85

3. Replace the water and air filter. An 8mm hex wrench required to install new water filter (Figure 86).

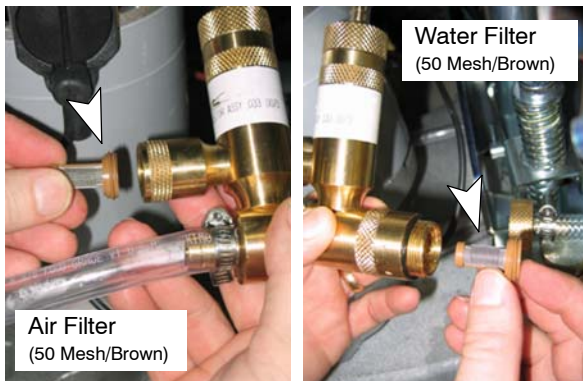


FIG. 86

ec-H2O MODULE FLUSH PROCEDURE

This procedure is only required when an alarm sounds and the ec-H2O system indicator light begins to blink red.

1. Drain the solution tank and recovery tank of all water.
2. Pour 1 gallon (4 liters) of white or rice vinegar into the solution tank at full strength. Do not dilute.

NOTE: Use **white or rice vinegar** only. The acidity level should be between 4-8%. Do not use other acids for this procedure.

FOR SAFETY: When servicing machine, wear protective gloves and eye protection when handling vinegar.

3. Disconnect the black connector fitting at the scrub head and place the hose into a bucket (Figure 87). To access the connector fitting, you may have to remove the front cover from the machine.

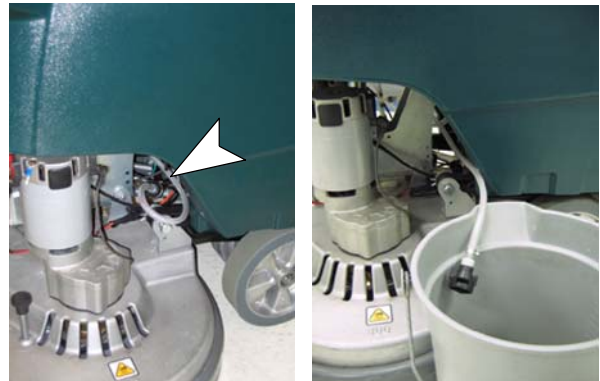


FIG. 87

4. Turn the key to the on (I) position.

- Press and release the *ec-H2O* module flush switch to start the flush cycle (Figure 88). The module is located under the recover tank.

NOTE: The module will automatically shut off when the flush cycle is complete (approx. 7 minutes). The module must run the full 7 minute cycle in order to reset the system indicator light and alarm.

Repeat flush procedure if the *ec-H2O* module does not reset. If module fails to reset, contact an Authorized Service Center.

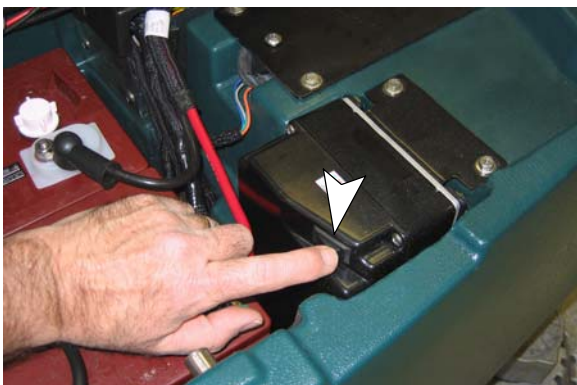


FIG. 88

JACKING UP MACHINE

Use the designated locations to jack up the machine for service (Figure 89). Empty the recovery and solution tank and position the machine on a level before jacking.

FOR SAFETY: When servicing machine, jack machine up at designated locations only. Use jack or hoist that will support machine weight.

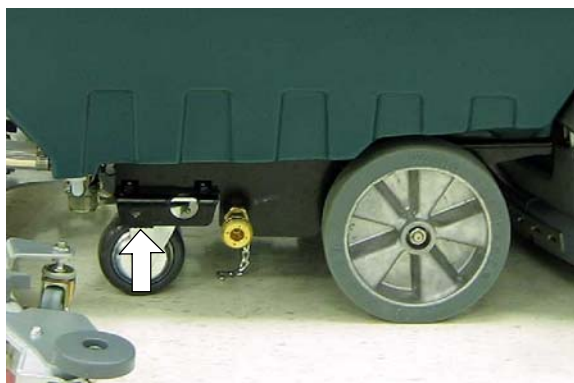


FIG. 89

TRANSPORTING MACHINE

When transporting the machine by trailer or truck, be certain to follow the transporting procedure below:

- Drain machine tanks.
- Load the machine using a ramp that can support the machine weight and person loading it. The maximum ramp incline should not exceed 11° at a ramp length of 3.7m (12 ft).
- Position the front of machine up against the front of the trailer or truck. Lower the scrub head and squeegee.
- Set the parking brake, if equipped, and place a block behind each wheel to prevent the machine from rolling.
- Secure with tie-down straps as shown (Figure 90). It may be necessary to install tie-down brackets to trailer or truck.

FOR SAFETY: When loading/unloading machine onto/off truck or trailer, use a ramp that can support the machine weight and person loading it, do not exceed a 11° ramp incline at a ramp length of 12 ft (3.7m), use tie-down straps to secure machine and block machine wheels.

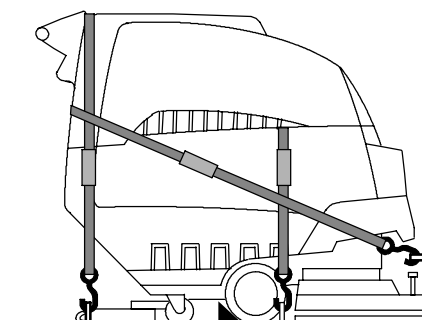


FIG. 90

OPERATION

STORING MACHINE

1. Charge the batteries before storing machine to prolong the life of the batteries.
2. Drain and rinse the tanks thoroughly.
3. Store the machine in a dry area with the squeegee and scrub head in the up position.
4. Open the recovery tank cover to promote air circulation.

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

5. If storing machine in freezing temperatures, follow the FREEZE PROTECTION instructions below.

FREEZE PROTECTION

1. Drain the solution tank and recovery tank of all water.
2. Empty the solution tank filter located under the machine (Figure 91).



FIG. 91

3. Pour 1 gallon (4 liters) of recreational vehicle (RV) antifreeze into the solution tank at full strength. Do not dilute.

FOR SAFETY: Avoid eye contact with antifreeze. Wear safety glasses.

4. Turn the machine power on and operate the solution flow system. Turn the machine off when the red RV antifreeze is visible.

If your machine is equipped with the off-aisle wand option, operate the off-aisle wand for a few seconds to protect the pump.

Continue with the freeze protection procedure if machine is equipped with the FaST or *ec-H2O* system.

ec-H2O Model:

Press and release the flush switch on the *ec-H2O* module to cycle the antifreeze through *ec-H2O* system (Figure 92). When the antifreeze is visible, press the switch again to turn off the module.

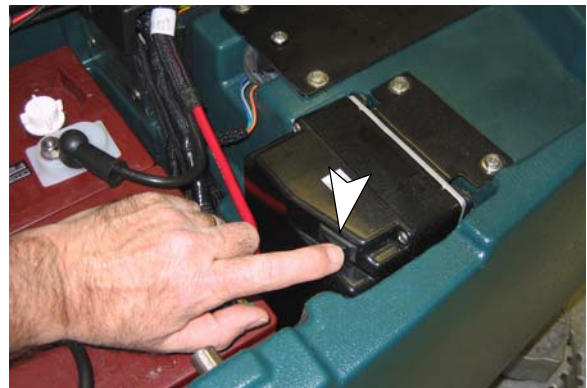


FIG. 92

IMPORTANT: Before operating machine, the antifreeze must be flushed from the module as described below.

If the antifreeze is not properly flushed from the *ec-H2O* system, the *ec-H2O* module may detect an error and not function (*ec-H2O* switch indicator light will turn red). If this occurs, reset key and repeat the flush procedure as described below.

Flushing antifreeze from *ec-H2O* module:

1. Drain the antifreeze from the solution tank into a bucket.
2. Fill the solution tank with cool water until full (See FILLING SOLUTION TANK).
3. Disconnect the black connector fitting at the scrub head and place the hose into a bucket (Figure 93). To access the connector fitting, you may have to remove the front cover from the machine.

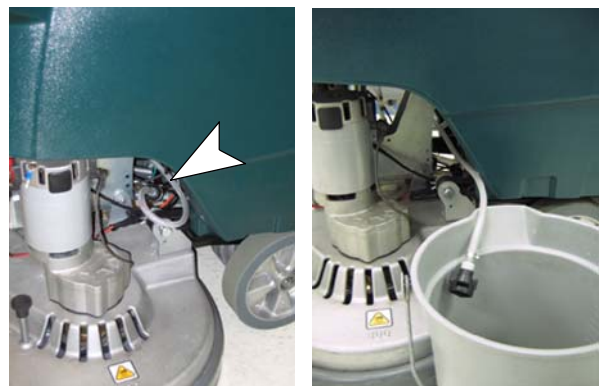


FIG. 93

4. Press and release the *ec-H2O* module switch to flush the antifreeze from the *ec-H2O* system (Figure 92). The module is located under the recovery tank.

When the water turns clear, press the module switch again to stop the flush cycle.

Dispose the antifreeze in an environmentally safe way according to local waste disposal regulations.

5. The machine is now ready for scrubbing.

FaST Model:

The following items are required: valve coupling #1002856 and 6 in (15 cm) hose #63182.

1. Remove the FaST-PAK carton and connect the valve coupling and 6 in (15 cm) hose to the FaST detergent supply hose (Figure 94).



FIG. 94

2. Disconnect the opposite end of the FaST supply hose from the injector assembly and drain the detergent from the hose (Figure 95). Reconnect the hose after draining. To access the injector assembly remove the front shroud.



FIG. 95

3. Pour the recreational vehicle (RV) antifreeze into the supply hose until full (Figure 96).
4. Keep the hose upright to prevent the antifreeze from spilling and lower the recovery tank.



FIG. 96

5. Operate the FaST system until the foaming stops. This step could take anywhere from 5 to 10 minutes.
6. When finished, connect the supply hose to the storage plug (Figure 97).

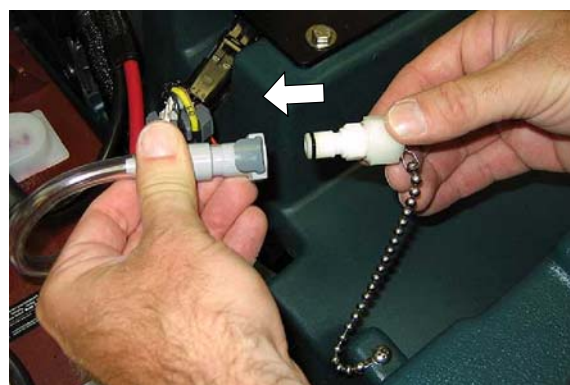


FIG. 97

7. To drain the antifreeze from the FaST supply hose, repeat steps 1 and 2.

RECOMMENDED STOCK ITEMS

Refer to the Parts List Manual for recommended stock items. Stock Items are clearly identified with a bullet preceding the parts description. See example below:

26	1017380	(00000000-	) • Hose, Drain, Assy, 1.5d X 29.5l, Blk, Flx
27	1008639	(00000000-	) • Drain Assy
28	1019563	(00000000-	) • Strap, Drain Cap
29	1008637	(00000000-	) • O Ring, 1.48" Id, 1.76" Od

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Machine will not operate	Discharged batteries	Charge batteries
	Emergency-stop button activated	Turn button clockwise to reset
	Faulty battery(s)	Replace battery(s)
	Loose battery cable	Tighten loose cable
	Tripped main circuit breaker	Reset 10A main circuit breaker
	Main fuse blown	Replace 100A main fuse
	Faulty key switch	Contact Service Center
	Machine fault detected.	See Battery Meter LED Fault Codes
On-board battery charger will not operate	Plug not connected to power supply	Check plug connection
	Faulty charger fuse	Replace charger fuse
	Faulty power supply cord	Replace cord
	Error detected.	See On-board Battery Charger Error Codes
Brush motor(s) will not operate	Scrub head is raised off floor	Lower scrub head
	Battery meter lockout activated	Recharge batteries
	Discharged batteries	Charge batteries
	Tripped brush motor circuit breaker	Reset 25A circuit breaker button
	Faulty scrub head (up/down) switch	Contact Service Center
	Faulty trigger switch(es)	Contact Service Center
	Faulty brush motor or wiring	Contact Service Center
	Worn carbon brushes	Contact Service Center
	Broken or loose belt (cylindrical brush model)	Replace or tighten belt
	Faulty relay switch	Contact Service Center
Machine will not propel	Parking brake is set	Release parking brake lever
	Machine fault detected	See Battery Meter LED Fault Codes
	Propel motor fuse blown	Replace 30A fuse
	Faulty transaxle motor or wiring	Contact Service Center
	Worn carbon brushes	Contact Service Center
	Exceeded maximum incline	Avoid steep inclines and reset key
Vacuum motor will not operate	Squeegee is raised off floor	Lower squeegee
	Discharged batteries	Charge batteries
	Tripped vacuum motor circuit breaker	Reset 25A circuit breaker button
	Faulty vacuum motor or wiring	Contact Service Center
	Worn carbon brushes	Contact Service Center
Little or no solution flow	Solution tank is empty	Fill solution tank
	Clogged solution tank filter	Clean solution tank filter
	Discharged batteries	Charge batteries
	Clogged solution valve	Remove valve and clean
	Solution flow control knob set too low	Adjust solution control flow knob
	Loose screw on control knob	Calibrate knob and retighten screw.

TROUBLESHOOTING - Continued

PROBLEM	CAUSE	SOLUTION
Poor water pickup	Recovery tank is full or excessive foam buildup	Drain recovery tank
	Loose drain hose cap	Tighten cap
	Clogged float shut-off screen located in recovery tank	Clean screen
	Clogged squeegee assembly	Clean squeegee assembly
	Worn squeegee blades	Replace or rotate squeegee blades
	Incorrect Squeegee blade deflection	Adjust Squeegee blade height
	Loose vacuum hose connections	Secure hose connections
	Clogged vacuum hose	Remove clogged debris
	Damaged vacuum hose	Replace vacuum hose
	Recovery tank cover not in place	Properly position cover
	Damaged recovery tank cover seal	Replace seal
	Faulty vacuum motor	Contact Service Center
	Low battery charge	Recharge batteries
Poor scrubbing performance	Debris caught in brush	Remove debris
	Worn brushes/pads	Replace brushes/pads
	Incorrect brush pressure setting	Adjust pressure setting
	Wrong brush/pad type.	Use correct brush/pad
Reduced run time	Batteries not fully charged	Fully recharge batteries
	Defective batteries	Replace battery
	Batteries need maintenance	See BATTERY MAINTENANCE
	Faulty battery charger	Repair or replace battery charger
FaST Model: FaST System does not operate or operate correctly	FaST system switch is not turned on	Turn on FaST system switch
	FaST-PAK supply hose not connected	Connect supply hose
	Clogged FaST-PAK supply hose or connectors	Soak in warm water to unclog
	Empty FaST-PAK carton	Replace FaST-PAK carton
	Kink in FaST-PAK supply hose	Undo hose kink
	Clogged FaST solution system	Contact Service Center
	Faulty FaST system on/off switch	Contact Service Center
	Faulty pump	Contact Service Center
	Clogged solution tank filter	Drain solution tank. Remove solution tank filter, clean and reinstall
	Clogged detergent orifice/filter screen	Replace orifice/filter screen (See FaST SYSTEM MAINTENANCE)
	Clogged FaST solution inlet filter	Contact Service Center
	FaST Pump fuse blown	Replace 7.5A fuse

TROUBLESHOOTING - Continued

PROBLEM	CAUSE	SOLUTION
ec-H2O Model: <i>ec-H2O</i> system indicator light blinks red and alarm sounds	Mineral deposit build-up in module	Flush module (See <i>ec-H2O</i> MODULE FLUSH PROCEDURE). If indicator light starts flashing within 1–10 seconds, repeat flush procedure. If indicator light starts flashing after a minute of scrubbing, the water may have low conductivity.
	Low water conductivity	Add 8 ml of salt to every 40 L of water.
ec-H2O Model: <i>ec-H2O</i> system indicator light solid red	Defective module	Contact Service Center
ec-H2O Model: <i>ec-H2O</i> system indicator light does not turn on	Defective light or module	Contact Service Center
ec-H2O Model: No water flow	Clogged module	Contact Service Center
	Defective solution pump	Replace solution pump

BATTERY METER LED FAULT CODES

CODE (Flashing LED Bars)	FAULT	SOLUTION
One	Low voltage shut-off. Scrubbing function stops.	Recharge batteries.
		Check battery connection.
Two	Battery charge level getting low.	Recharge batteries.
Three	Drive motor tripped.	Remove overload condition and reset key.
	Short circuit to drive motor.	Contact Service Center.
Four	Battery lockout.	Recharge batteries immediately.
Eight	Controller tripped.	Contact Service Center.
Ten	High battery voltage reading.	Check battery connections.
No Bars	Sleep mode.	Turn key to restore.
Bars Rippling	Throttle engaged at start up.	Release triggers.

MACHINE SPECIFICATIONS

MODEL	Disk, 24 in / 600mm	Disk, 28 in / 700mm	Disk, 32 in / 800mm	Cylindrical, 26 in / 650mm	Cylindrical, 32 in / 800mm
LENGTH	53.4 in / 1,357 mm	55.5 in / 1,408 mm	58 in / 1,471 mm	55 in / 1,399 mm	55 in / 1,399 mm
WIDTH	25.4 in / 645 mm	29 in / 737 mm	33 in / 838 mm	28 in / 711 mm	34 in / 864 mm
HEIGHT	44 in / 1120 mm				
MINIMUM AISLE TURN	53 in / 1,346 mm	59 in / 1,499 mm	64 in / 1,626 mm	62 in / 1,575 mm	64.5 in / 1,638 mm
WEIGHT	293 lb / 133 kg	320 lb / 145 kg	332 lb / 151 kg	332 lb / 151 kg	342 lb / 155 kg
WEIGHT WITH BATTERIES	569 lb / 258 kg	593 lb / 269 kg	606 lb / 275 kg	606 lb / 275 kg	615 lb / 279 kg
RECOVERY TANK CAPACITY	27 gal / 105 L				
SOLUTION TANK CAPACITY	22.5 gal / 85 L				
DRIVE SYSTEM	Transaxle, 24 V, .25 hp / .19 kW				
TRAVEL SPEED, MAXIMUM	Cleaning: 220 ft / 67 m per min Transporting: 235 ft / 72 m per min				
PRODUCTIVITY RATE Theoretical	26,400 ft ² / 2,450 m ² h	30,800 ft ² / 2,860 m ² h	35,200 ft ² / 3,270 m ² h	28,600 ft ² / 2,660 m ² h	35,200 ft ² / 3,270 m ² h
PRODUCTIVITY RATE Estimated Actual	17,875 ft ² / 1,660 m ² h	20,800 ft ² / 1,930 m ² h	24,000 ft ² / 2,230 m ² h	19,200 ft ² / 1,785 m ² h	24,000 ft ² / 2,230 m ² h
CLEANING PATH WIDTH	24 in / 600 mm	28 in / 700 mm	32 in / 800 mm	26 in / 650 mm	32 in / 800 mm
BRUSH DIAMETER	11.9 in / 302 mm	13.9 in / 353 mm	15.9 in / 404 mm	5.9 in / 151 mm	5.9 in / 151 mm
BRUSH PRESSURE	up to 120 lb / 54 kg				
SOLUTION FLOW RATE	.5 gpm / 1.89 L/min	.50 gpm / 1.89 L/min		.6 gpm / 2.27 L/min	.6 gpm / 2.27 L/min
SQUEEGEE WIDTH	35.7 in / 908 mm standard	41.3 in / 1,051 mm standard	46.6 in / 1,185 mm standard	41.3 in / 1,051 mm standard	46.6 in / 1,185 mm standard
	31.5 in / 800 mm narrow aisle	35.7 in / 908 mm narrow aisle	41.3 in / 1,051 mm narrow aisle	35.7 in / 908 mm narrow aisle	41.3 in / 1,051 mm narrow aisle
BRUSH MOTOR	Qty 2, .75 hp / .55 kW, 220 rpm, 24 V, 29 A			Qty 2, .63 hp / .47 kW, 1500 rpm, 24 V, 23 A	
VACUUM MOTOR	.85 hp / .63 kW, 640 W, 3–stage 5.7, 24 V, 26 A				
WATER LIFT - AIR FLOW	62 in / 55 mm – 69 ft ³ / 32.4 L ³ /m				
BATTERIES	Qty 4, 6 V				
BATTERY CAPACITY	WET (lead Acid) = 235 Ah @ 20 h rate Sealed (Gel)= 200 Ah @ 20 h rate				
RUN TIME PER CHARGE*	WET = Up to 5.0 hours Gel = Up to 4.0 hours				
ON-BOARD CHARGER	120 VAC, 10 A, 50/60 Hz, 24 VDC, 20 A output				
TOTAL POWER CONSUMPTION	50 A nominal				
VOLTAGE DC	24 VDC				
PROTECTION GRADE	IPX3				
DECIBEL RATING AT OPERA- TOR’S EAR, INDOORS.**	67dBA			68dBA	
VIBRATION AT CONTROLS	<.39 ft/s ² / <.1188 m/s ²			<.34 ft/s ² / <.103 m/s ²	
ACCELERATION RATE ON OPERATOR - MAX.	.56 ft / .179 m /s ²				
GRADE LEVEL, MAX.	Scrubbing 5% (3°), Transporting 8% (5°)				

* Run times are based on Continuous Scrubbing Run Times.

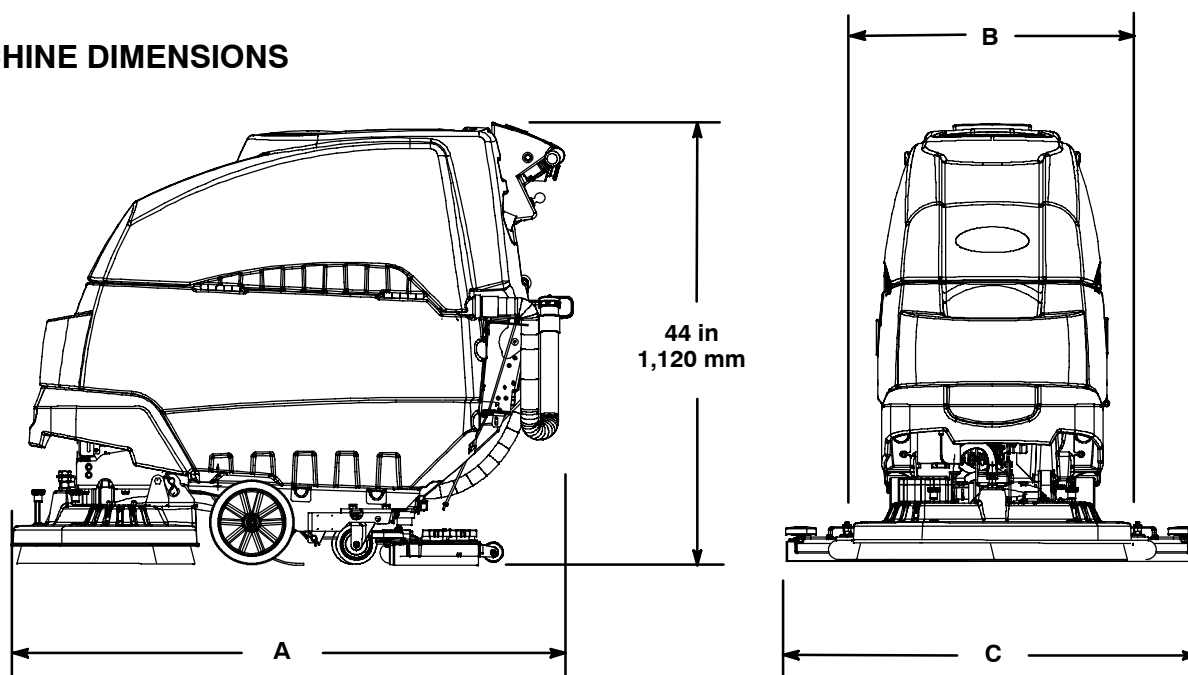
** Sound levels (ISO 11201) as recommended by the American Association of Cleaning Equipment Manufacturers (AACEM) and OSHA.

OPERATION

FaST SYSTEM	Disk, 24 in / 600mm	Disk, 28 in / 700mm	Disk, 32 in / 800mm	Cylindrical, 26 in / 650mm	Cylindrical, 32 in / 800mm
PRODUCTIVITY RATE Estimated Actual	20,075ft ² / 1,865m ² /h	22,750ft ² / 2,115m ² /h	26,250ft ² / 2,440m ² /h	21,000ft ² / 1,950m ² /h	26,250ft ² / 2,440m ² /h
SOLUTION PUMP	24 Volt DC, 3.5 A, 1.5 gpm / 5.6 L/min open flow, 60 psi / 4.13 Bar bypass setting				
SOLUTION FLOW RATE	0.15 gpm / 0.57 L/min	0.22 gpm / 0.83 L/min.		0.15 gpm / 0.57 L/min.	0.22 gpm / 0.83 L/min.
CONCENTRATE FLOW RATE	0.0193oz / 0.57CC /min.	0.028oz / 0.83CC /min.		0.0193oz / 0.57CC /min.	0.028oz / 0.83CC /min.
CONCENTRATE TO WATER DILUTION RATIO	1:1000				
ec- H2O SYSTEM	Disk, 24 in / 600mm	Disk, 28 in / 700mm	Disk, 32 in / 800mm	Cylindrical, 26 in / 650mm	Cylindrical, 32 in / 800mm
PRODUCTIVITY RATE Estimated Actual	20,075ft ² / 1,865m ² /h	22,750ft ² / 2,115m ² /h	26,250ft ² / 2,440m ² /h	21,000ft ² / 1,950m ² /h	26,250ft ² / 2,440m ² /h
SOLUTION PUMP	24 Volt DC, 3.5 A, 1.5 gpm / 5.6 L/min open flow, 60 psi / 4.13 Bar bypass setting				
SOLUTION FLOW RATE *	0.15 gpm / 0.57 L/min (standard)	0.22 gpm / 0.83 L/min (standard)		0.22 gpm / 0.83 L/min (standard)	0.33 gpm / 1.25 L/min (standard)
	0.22 gpm / 0.83 L/min (optional)	0.33 gpm / 1.25 L/min (optional)		0.30 gpm / 1.10 L/min (optional)	0.44 gpm / 1.66 L/min (optional)
	0.30 gpm / 1.10 L/min (optional)	0.44 gpm / 1.66 L/min (optional)			

* If the optional solution flow rates are required, contact an Authorized Service Center.

MACHINE DIMENSIONS



Models:	24 in / 600 mm Disk	28 in / 700 mm Disk	32 in / 800 mm Disk	26 in / 650 mm Cylindrical	28 in / 800 mm Cylindrical
A =	53.4 in / 1,357 mm	55.5 in / 1,408 mm	58 in / 1,471 mm	55 in / 1,399 mm	55 in / 1,399 mm
B =	25.4 in / 645 mm	29 in / 737 mm	33 in / 838 mm	28 in / 711 mm	34 in / 864 mm
C =	35.7 in / 908 mm	41.3 in / 1,051 mm	46.6 in / 1,185 mm	41.3 in / 1,051 mm	46.6 in / 1,185 mm



FaST
Foam Scrubbing Technology

The Safe Scrubbing Alternative®

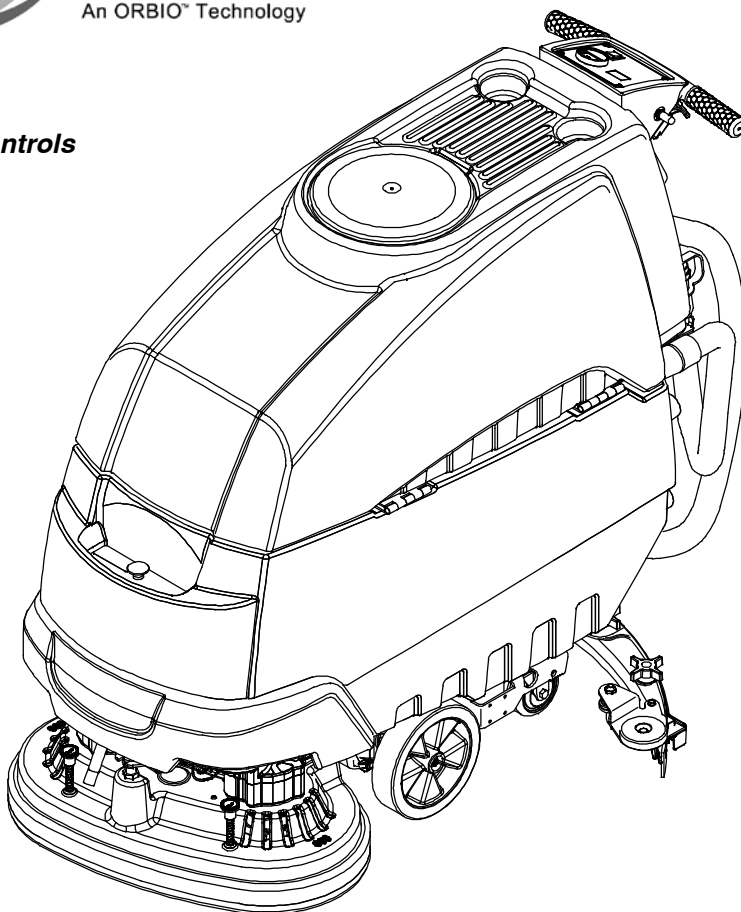
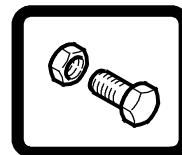


Quick-Train™ Controls

SPEED SCRUB®

AUTOMATIC SCRUBBER

PARTS MANUAL



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

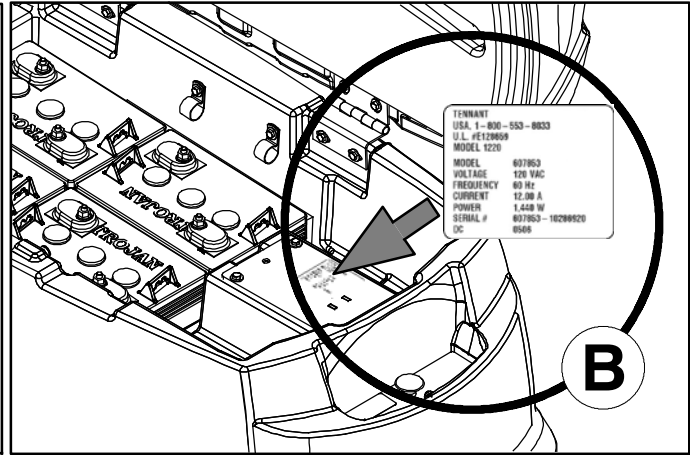
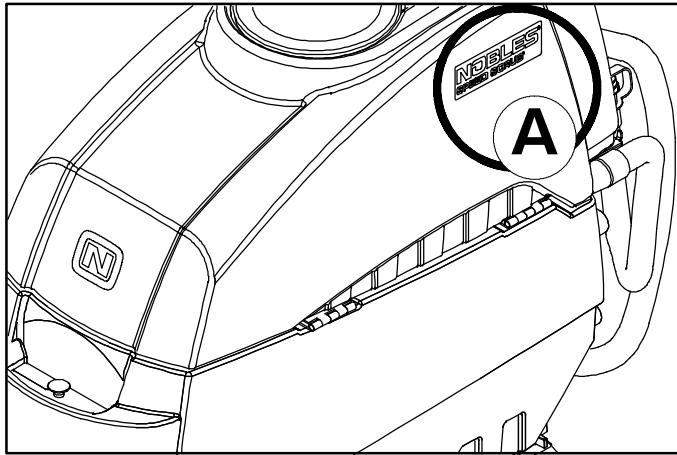
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9002373

Rev. 12 (06-2014)





Ref	Part No.	Serial Number	Description	Qty.
1	82681	(000000-)	Bracket Wldt, 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
	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

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GENERAL RECOMMENDED MAINTENANCE ITEMS	4	SOLUTION GROUP, STANDARD MODEL	66
STANDARD PARTS		SQUEEGEE LIFT GROUP	68
REPLACEMENT BRUSHES	10	SQUEEGEE GROUP, 20 in / 500 mm	70
PAD DRIVER GROUP	12	SQUEEGEE GROUP, 24 in / 600 mm	72
RECOVERY TANK GROUP	14	SQUEEGEE GROUP, 26 in / 650 mm & 28 in / 700 mm	74
VACUUM MOTOR GROUP	16	SQUEEGEE GROUP, 32 in / 800 mm	76
SOLUTION TANK GROUP	18	BATTERY GROUP, MAINTENANCE FREE 220 Ah	78
CONTROL CONSOLE GROUP	20	BATTERY GROUP, LEAD-ACID 235 Ah	79
COMPONENT PANEL GROUP	22	ON-BOARD CHARGER GROUP - 120V (S/N 10409250-)	80
FRAME GROUP	24	ON-BOARD CHARGER GROUP - 120V (S/N 10000000- 10409249)	82
SCRUB HEAD GROUP, DISK 24 in / 600 mm ...	26	ELECTRICAL DIAGRAM, STANDARD & FaST MODEL	84
SCRUB HEAD GROUP, DISK 28 in / 700 mm ...	30	ELECTRICAL DIAGRAM, ec-H2O MODEL	86
SCRUB HEAD GROUP, DISK 32 in / 800 mm ...	34	WIRE HARNESS GROUP, ec- H2O OPTION (S/N 10455033-)	88
SCRUB HEAD GROUP, CYLINDRICAL 26 in / 650 mm	38	WIRE HARNESS GROUP, ec- H2O OPTION (S/N 10000000- 10455032)	90
SCRUB HEAD GROUP, CYLINDRICAL 32 in / 800 mm	42	WIRE HARNESS GROUP, FAST OPTION	92
SCRUBHEAD LIFT GROUP	46	WIRE HARNESS GROUP, FRAME	93
SOLUTION GROUP, FaST MODEL	48	WIRE HARNESS GROUP, WAND OPTION	94
9008847 FAST INJECTOR ASSEMBLY BREAKDOWN (S/N 10538043-), 600 mm DISK & 650 mm CYLINDRICAL MODELS	52	WIRE HARNESS GROUP, MAIN	95
9003907 FAST INJECTOR ASSEMBLY BREAKDOWN (S/N 10348538- 10538042) 600 mm DISK & 650 mm CYLINDRICAL MODELS	53	OPTIONS	
9003908 FAST INJECTOR ASSEMBLY BREAKDOWN (S/N 10347532-) 700 mm / 800 mm DISK & 800 mm CYLINDRICAL MODELS	54	WAND PUMP KIT	98
9003812 FAST INJECTOR ASSEMBLY BREAKDOWN (S/N 10000000- 10347531) 700 mm / 800 mm DISK & 800 mm CYLINDRICAL MODELS	55	DELUXE POWER WAND GROUP	100
9003810 FAST INJECTOR ASSEMBLY BREAKDOWN (S/N 10000000- 10348537) 600 mm DISK & 650 mm CYLINDRICAL MODELS	56	OFF- BOARD CHARGER GROUP	102
SOLUTION GROUP, ec-H2O MODEL	58	BUMPER WHEEL KIT	104
ec-H2O MODULE ASSEMBLY BREAKDOWN, 9007970 (S/N 10448305-)	62	POWER WAND HOSE GROUP	106
ec-H2O MODULE ASSEMBLY BREAKDOWN, 9006161 (S/N 10378380- 10448304)	64	HYDROLINK® BATTERY WATERING SYSTEM KIT	107
		OPTIONAL WHEEL KIT	108

RECOMMENDED MAINTENANCE ITEMS

GENERAL RECOMMENDED MAINTENANCE ITEMS

Ref.	Part No.	Serial Number	Description	Qty.
	1017959	(10000000- 20000000)	Seal, Bulb, Str, 0.50h .50w 032.0l, Adh	1
▽	1043538	(10000000- 20000000)	Hose Assy, Drain, 1.50id X 29.5l, Blk	1
▲▽	1008639	(10000000- 20000000)	Cap, Drain Assy	1
▲▲	1019563	(10000000- 20000000)	Strap, Cap, Drain	1
▲▲	1008637	(10000000- 20000000)	Seal, Org, 1.48id 1.76od	1
	630255	(10000000- 20000000)	Gasket, Float, Mount	1
	630052	(10000000- 20000000)	Float, Shut- Off, (2)Ball, 1.75d	1
▽	1025106	(10000000- 20000000)	Fan, Vacuum, 5.7d, 3s, 24vdc, Us	1
▲	1073334	(10000000- 20000000)	Brush, Carbon, Motor, Ele [1pick=1pkg] (1Pkg=2Brushes)	1
	100038	(10000000- 20000000)	Gasket, Vacuum Mtr 5.7 Epdm W/Psa	1
	606146	(10000000- 20000000)	Screen, Fltr, Soltn Fill, Nat	1
	86379	(10000000- 20000000)	Fuse, 100a 125volt 0.88 X 3.2l	1
	1049048	(10000000- 20000000)	Caster, Swivel, 4.0d 1.4w, 4hole [400lb]	2
	614166	(10000000- 20000000)	Brush Kit, Carbon [Qty 4] (For Transaxle Motor 1031723)	1
	1031775	(10000000- 20000000)	Brush, Brush- Motor, Afmkt (For Disk Scrub Head Motor 1023067)	1
	1035888	(10338658- 20000000)	Belt, Drive, 6Grv, 508l X 14w, [6P]	2
	377500	(10000000- 10338657)	Belt,Synchronous, 500l,15mm [05p,Plychn]	2
	1022401	(10000000- 20000000)	Gasket, Cover, Belt	2
	1049739	(10419662- 20000000)	Brush Kit, Carbon, Motor, Replmt [4pcs]	2
	190152	(10000000- 10419661)	Brush, Carbon [Pk=4]	2
	1025272	(10000000- 20000000)	Skirt, Tray, Debris, 65cm	1
	1025273	(10000000- 20000000)	Skirt, Tray, Debris, 80cm	1
▽	1005302	(10000000- 20000000)	Filter, In- Line, Pf06/Pf06, 80 Mesh	1
▲	1005304	(10000000- 20000000)	Screen, Fltr, 80 Mesh	1
▲	613992	(10000000- 20000000)	Gasket [Viton, F/1005302]	1
	1008675	(10000000- 20000000)	Gasket, Edge, Foam, 24.00l [Fr]	1
	1024105	(10000000- 20000000)	Cable, Lift, Sqge	1
	578074000	(10000000- 20000000)	Blade, Sqge, 300.8mml, Wand (Optional Power Wand)	2
▽	9004459	(10000000- 20000000)	Wheel Kit, Bumper, Retrofit [T5]	1
▲	614317	(10000000- 20000000)	Wheel, 04.0d 1.00w 0.38b, Rbr, Gray	2
▲	1014918	(10000000- 20000000)	Wheel, 03.0d 0.88w 0.31b, W/ Bshg, Rbr	2
▽	9004903	(10000000- 20000000)	Wheel Kit, Pneumatic, Ci [T5 T5e Ss5]	1
▲	1059452	(10000000- 20000000)	Tire Assy, Pneu, Grey, 2.8/2.5- 04 2.75bc	2
▽	9004904	(10000000- 20000000)	Wheel Kit, Foam Filled, Ci [T5 T5e Ss5]	1
▲	1068472	(10000000- 20000000)	Tire Assy, Foam, Hi- Dns, Grey,2.8/2.5- 04	2
	1017019	(10000000- 20000000)	Detergent Pkg, 2 Liter, Sgl [Mp]	1
	1017025	(10000000- 20000000)	Detergent Pkg, 2 Liter, Sgl [Mpd]	1

RECOMMENDED MAINTENANCE ITEMS

CYLINDRICAL 26 in / 650 mm MODEL RECOMMENDED MAINTENANCE ITEMS

Ref.	Part No.	Serial Number	Description	Qty.
	399251	(10000000- 20000000)	Brush, Scb, Cyl, 26l, 18 Sr, Nyl (Soft Nylon)	2
	399252	(10000000- 20000000)	Brush, Scb, Cyl, 26.0l, Poly (Medium Polypropylene)	2
	399253	(10000000- 20000000)	Brush, Scb, Cyl, 26.0l, Hd Poly (Stiff Polypropylene)	2
	399254	(10000000- 20000000)	Brush, Scb, Cyl, 26.0l, Abr (Abrasive)	2
	1060864	(10000000- 20000000)	Brush, Scb, Cyl, 26l, 18sr, Abr, Spl (Abrasive - Light Duty)	2

CYLINDRICAL 32 in / 800 mm MODEL RECOMMENDED MAINTENANCE ITEMS

Ref.	Part No.	Serial Number	Description	Qty.
	222308	(10000000- 20000000)	Brush, Scb, Cyl, 32l, 18 Sr, Nyl, Spl (Soft Nylon)	2
	374042	(10000000- 20000000)	Brush, Scb, Cyl, 32l, 18 Sr, Pyp ,Spl (Medium Polypropylene)	2
	222307	(10000000- 20000000)	Brush, Scb, Cyl, 32l, 18 Sr, Pyp Grout, Spl (Stiff Polypropylene)	2
	222309	(10000000- 20000000)	Brush, Scb, Cyl, 32l, 18 Sr, Abr, Spl (Abrasive)	2

DISK 24 in / 600 mm MODEL RECOMMENDED MAINTENANCE ITEMS

Ref.	Part No.	Serial Number	Description	Qty.
	1025094	(10000000- 20000000)	Brush Assy, Disk, Scb, 11.90d, Nyl (Soft Nylon)	2
	1025095	(10000000- 20000000)	Brush Assy, Disk, Scb, 11.90d, Pyp (Medium Polypropylene)	2
	1025096	(10000000- 20000000)	Brush Assy, Disk, Scb, 11.9d, Sab (Abrasive)	2
	21852	(10000000- 20000000)	Bracket, Retainer, Spring	2
	21853	(10000000- 20000000)	Spring, Wir, 0.16d, Brush Retaining (12" Brush Assy)	1
	370095	(10000000- 20000000)	Device, Centering, Clip- On, Teal, Gf Pp	1
	385940	(10000000- 20000000)	Pad, Polish, 12.0d, White [1pad=1pc] (Polishing)	2
	385941	(10000000- 20000000)	Pad, Buff, 12.0d, Red [1pad=1pc] (Light Scrubbing & Buffing)	2
	385942	(10000000- 20000000)	Pad, Scb, 12.0d, Blu [1pick = 1 Pad] (Blue) (Medium Scrubbing)	2
	385943	(10000000- 20000000)	Pad, Stripping, 12.0d, Brown [1pad=1pc] (Deep Scrubbing & Stripping)	2
	1051020	(10000000- 20000000)	Pad, Surf Prep, 12.0d [Mar, 1pick=1pad] (Maroon) (Surface Preparation)	2

RECOMMENDED MAINTENANCE ITEMS

DISK 28 in / 700 mm MODEL RECOMMENDED MAINTENANCE ITEMS

Ref.	Part No.	Serial Number	Description	Qty.
	399246	(10000000- 20000000)	Brush, Disk, Scr, 13.90d, Assy, Nyl (Soft Nylon)	2
	399247	(10000000- 20000000)	Brush, Disk, Scr, 13.90d, Assy, Pyp (Medium Polypropylene)	2
	399245	(10000000- 20000000)	Brush, Disk, Scr, 13.90d, Assy, Sab (Abrasive)	2
	21852	(10000000- 20000000)	Bracket, Retainer, Spring	2
	1028905	(10000000- 20000000)	Spring, Wir, 0.16d, Brush Retaining, (14" & 16" Brush Assy)	1
	370095	(10000000- 20000000)	Device, Centering, Clip- On, Teal, Gf Pp	1
	222324	(10000000- 20000000)	Pad, Polish, 14.0d, White [1pad=1pc] (Polishing)	2
	222325	(10000000- 20000000)	Pad, Buff, 14.0d, Red (Light Scrubbing & Buffing)	2
	222326	(10000000- 20000000)	Pad, Scb, 14.0d, Blu [1pad=1pc] (Blue) (Medium Scrubbing)	2
	222327	(10000000- 20000000)	Pad, Stripping, 14.0d, Brown [1pad=1pc] (Deep Scrubbing & Stripping)	2
	1051026	(10000000- 20000000)	Pad, Surf Prep, 14.0d [Mar, 1pick=1pad] (Maroon) (Surface Preparation)	2

DISK 32 in / 800 mm MODEL RECOMMENDED MAINTENANCE ITEMS

Ref.	Part No.	Serial Number	Description	Qty.
	399243	(10000000- 20000000)	Brush, Disk, Scr, 15.9d, Assy, Nyl (Soft Nylon)	2
	399244	(10000000- 20000000)	Brush, Disk, Scr, 15.9d, Assy, Pyp (Medium Polypropylene)	2
	399242	(10000000- 20000000)	Brush, Disk, Scr, 15.9d, Assy, Sab (Abrasive)	2
	21852	(10000000- 20000000)	Bracket, Retainer, Spring	2
	1028905	(10000000- 20000000)	Spring, Wir, 0.16d, Brush Retaining, (14" & 16" Brush Assy)	1
	370095	(10000000- 20000000)	Device, Centering, Clip- On, Teal, Gf Pp	1
	63248- 4	(10000000- 20000000)	Pad, Polish, 16.0d, White [1pad=1pc] (Polishing)	2
	63248- 3	(10000000- 20000000)	Pad, Buff, 16.0d, Red (Light Scrubbing & Buffing)	2
	63248- 2	(10000000- 20000000)	Pad, Scb, 16.0d, Blu [1pad=1pc] (Blue) (Medium Scrubbing)	2
	63248- 1	(10000000- 20000000)	Pad, Stripping, 16.0d, Brown [1pad=1pc] (Deep Scrubbing & Stripping)	2
	1051027	(10000000- 20000000)	Pad, Surf Prep, 16.0d [Mar, 1pick=1pad] (Maroon) (Surface Preparation)	2

RECOMMENDED MAINTENANCE ITEMS

SQUEEGEE GROUP, 20 in / 500 mm, RECOMMENDED MAINTENANCE ITEMS

Ref.	Part No.	Serial Number	Description	Qty.
▽	9001178	(10000000- 20000000)	Squeegee Assy Kit, 500mm, Ci	1
▲	1010560	(10000000- 20000000)	Wheel, Bmpr, 80d X 25w, Non- Marking	2
▲	1006343	(10000000- 20000000)	Caster, Swivel, 50mmd, M10 X 30 Stem, PI	2
▲	1010558	(10000000- 20000000)	Knob, Star, 2.00d 4ear 0.7l M8x1.25 Thru	4
▲	1011232	(10000000- 20000000)	Blade, Sqge, Front, 500mml (Linatex Red Standard)	1
	1014091	(10000000- 20000000)	Blade, Sqge, Front, 500mm, Gum (Gum Rubber Tan Optional)	1
	1014092	(10000000- 20000000)	Blade, Sqge, Front, 500mml, Oil- Rstn (Polyurethane Natural Optional)	1
▲	1011456	(10000000- 20000000)	Blade, Sqge, Rear, 500mm Linatex (Linatex Red Standard)	1
	1014093	(10000000- 20000000)	Blade, Sqge, Rear, 500mm Gum (Gum Rubber Tan Optional)	1
	1014094	(10000000- 20000000)	Blade, Sqge, Rear, 500mm Oil- Rstn (Polyurethane Natural Optional)	1
▲	1013933	(10000000- 20000000)	Strap Assy, Sqge, 500mm	1
	1014026	(10000000- 20000000)	Hose, Vacuum, 1.5d X 57l, 2- Short Cuffs	1

SQUEEGEE GROUP, 24 in / 600 mm, RECOMMENDED MAINTENANCE ITEMS

Ref.	Part No.	Serial Number	Description	Qty.
▽	9002679	(10000000- 20000000)	Kit, Squeegee, 600mm Ci	1
▲	1010560	(10000000- 20000000)	Wheel, Bmpr, 80d X 25w, Non- Marking	2
▲	1006343	(10000000- 20000000)	Caster, Swivel, 50mm D, M10 X 30 Stem, Zn	2
▲	1054375	(10000000- 20000000)	Knob, Star, 2.75d 4ear 1.1l M8x1.25 Thru	4
▲	1021804	(10000000- 20000000)	Blade, Sqge, Front, 88cml [Ln, 60cm] (Linatex Red Standard)	1
	1025333	(10000000- 20000000)	Blade, Sqge, Front, 88cml, Gum [60cm] (Gum Rubber Tan Optional)	1
	1025334	(10000000- 20000000)	Blade, Sqge, Front, 88cml, Ure [60cm] (Polyurethane Natural Optional)	1
▲	630477	(10000000- 20000000)	Wheel, Pyu, 2.0d 0.38w, Gray	1
▲	1021333	(10000000- 20000000)	Blade, Sqge, Rear, 88cm, Linatex [60cm] (Linatex Red Standard)	1
	1025335	(10000000- 20000000)	Blade, Sqge, Rear, 88cml, Gum [60cm] (Gum Rubber Tan Optional)	1
	1025336	(10000000- 20000000)	Blade, Sqge, Rear, 88cm, Ure [60cm] (Polyurethane Natural Optional)	1
	1014026	(10000000- 20000000)	Hose, Vacuum, 1.5d X 57l, 2- Short Cuffs	1

RECOMMENDED MAINTENANCE ITEMS

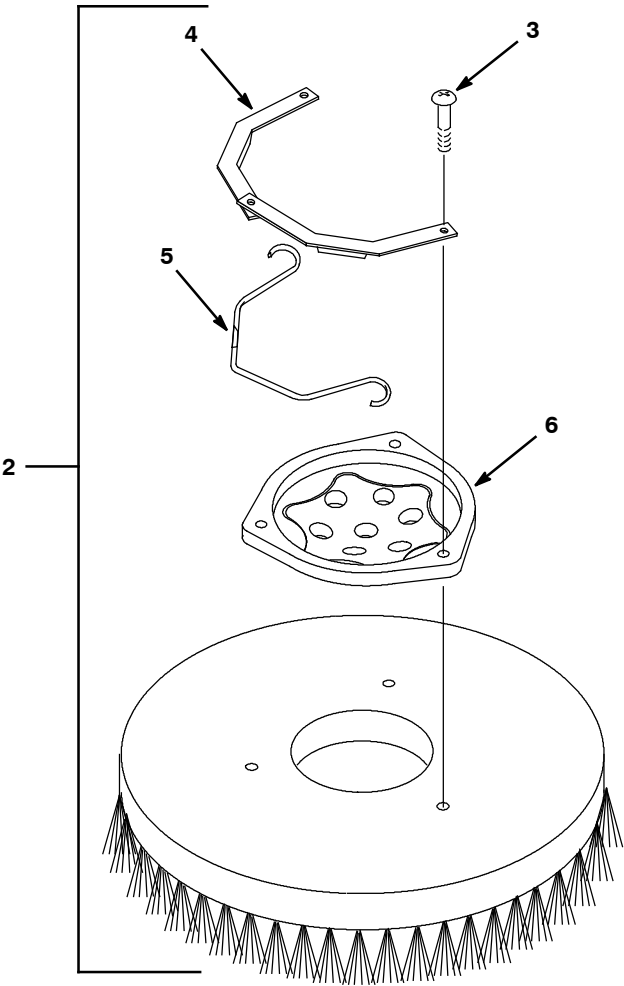
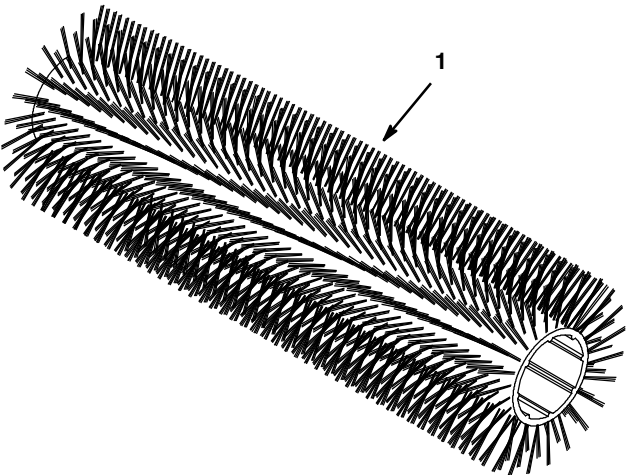
SQUEEGEE GROUP, 26 in / 650 mm & 28 in / 700 mm RECOMMENDED MAINTENANCE ITEMS

Ref.	Part No.	Serial Number	Description	Qty.
▽	9002680	(10000000- 20000000)	Kit, Squeegee, 700mm Ci	1
▲	1010560	(10000000- 20000000)	Wheel, Bmpr, 80d X 25w, Non- Marking	2
▲	1006343	(10000000- 20000000)	Caster, Swivel, 50mm D, M10 X 30 Stem,Zn	2
▲	1054375	(10000000- 20000000)	Knob, Star, 2.75d 4ear 1.1l M8x1.25 Thru	4
▲	1023327	(10000000- 20000000)	Blade, Sqge, Front, 98cml [Lnx, 70cm] (Linatex Red Standard)	1
	1025337	(10000000- 20000000)	Blade, Sqge, Front, 98cml, Gum [70cm] (Gum Rubber Tan Optional)	1
	1025339	(10000000- 20000000)	Blade, Sqge, Front, 98cml, Ure [70cm] (Polyurethane Natural Optional)	1
▲	630477	(10000000- 20000000)	Wheel, Pyu, 2.0d 0.38w, Gray	1
▲	1023329	(10000000- 20000000)	Blade, Sqge, Rear, 98cm,Linatex[70cm] (Linatex Red Standard)	1
	1025340	(10000000- 20000000)	Blade, Sqge, Rear, 98cml, Gum [70cm] (Gum Rubber Tan Optional)	1
	1025341	(10000000- 20000000)	Blade, Sqge, Rear, 98cm, Ure [70cm] (Polyurethane Natural Optional)	1
	1014026	(10000000- 20000000)	Hose, Vacuum, 1.5d X 57l, 2- Short Cuffs	1

SQUEEGEE GROUP, 32 in / 800 mm, RECOMMENDED MAINTENANCE ITEMS

Ref.	Part No.	Serial Number	Description	Qty.
▽	9002681	(10000000- 20000000)	Kit, Squeegee, 800mm Ci	1
▲	1010560	(10000000- 20000000)	Wheel, Bmpr, 80d X 25w, Non- Marking	2
▲	1006343	(10000000- 20000000)	Caster, Swivel, 50mm D, M10 X 30 Stem,Zn	2
▲	1054375	(10000000- 20000000)	Knob, Star, 2.75d 4ear 1.1l M8x1.25 Thru	4
▲	1023398	(10000000- 20000000)	Blade, Sqge, Front, 105cm [Linx 80cm] (Linatex Red Standard)	1
	1025342	(10000000- 20000000)	Blade, Sqge, Front, 105cml, Gum[80cm] (Gum Rubber Tan Optional)	1
	1025343	(10000000- 20000000)	Blade, Sqge, Front, 105cm, Ure [80cm] (Polyurethane Natural Optional)	1
▲	630477	(10000000- 20000000)	Wheel, Pyu, 2.0d 0.38w, Gray	1
▲	1023399	(10000000- 20000000)	Blade, Sqge, Rear, 105cml[Linx, 80cm] (Linatex Red Standard)	1
	1025344	(10000000- 20000000)	Blade, Sqge, Rear, 105cml, Gum [80cm] (Gum Rubber Tan Optional)	1
	1025346	(10000000- 20000000)	Blade, Sqge, Rear, 105cml, Ure [80cm] (Polyurethane Natural Optional)	1
	1014026	(10000000- 20000000)	Hose, Vacuum, 1.5d X 57l, 2- Short Cuffs	1

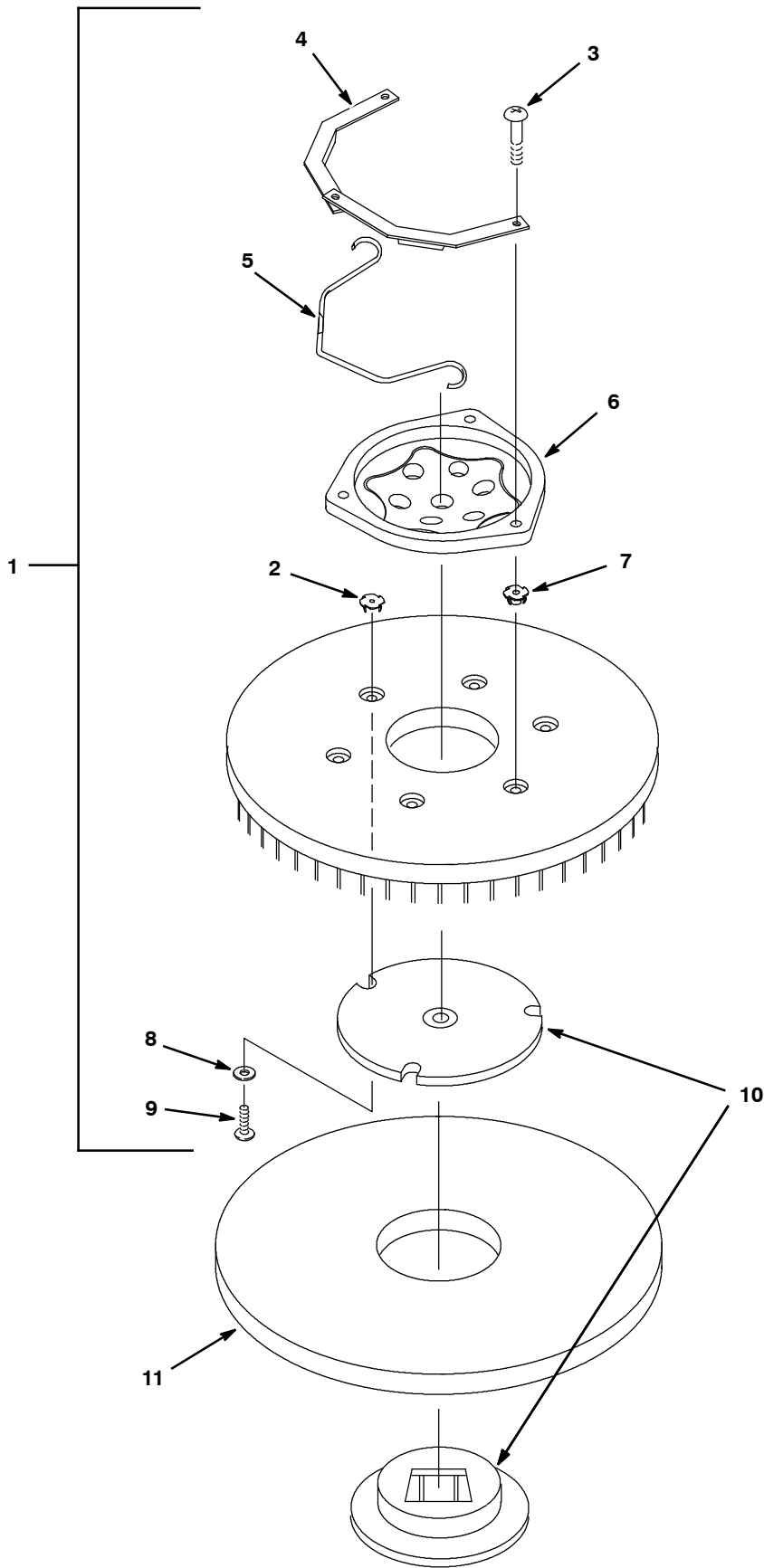
REPLACEMENT BRUSHES



REPLACEMENT BRUSHES

Ref.	Part No.	Serial Number	Description	Qty.
1	399251	(10000000- 20000000)	Brush, Scb, Cyl, 26l, 18 Sr, Nyl (Soft Nylon)	2
1	399252	(10000000- 20000000)	Brush, Scb, Cyl, 26.0l, Poly (Medium Polypropylene)	2
1	399253	(10000000- 20000000)	Brush, Scb, Cyl, 26.0l, Hd Poly (Stiff Polypropylene)	2
1	399254	(10000000- 20000000)	Brush, Scb, Cyl, 26.0l, Abr (Abrasive)	2
1	1060864	(10000000- 20000000)	Brush, Scb, Cyl, 26l, 18sr, Abr, Spl (Abrasive - Light Duty)	2
1	222308	(10000000- 20000000)	Brush, Scb, Cyl, 32l, 18 Sr, Nyl, Spl (Soft Nylon)	2
1	374042	(10000000- 20000000)	Brush, Scb, Cyl, 32l, 18 Sr, Pyp ,Spl (Medium Polypropylene)	2
1	222307	(10000000- 20000000)	Brush, Scb, Cyl, 32l, 18 Sr, Pyp Grout, Spl (Stiff Polypropylene)	2
1	222309	(10000000- 20000000)	Brush, Scb, Cyl, 32l, 18 Sr, Abr, Spl (Abrasive)	2
2	1025094	(10000000- 20000000)	Brush Assy, Disk, Scb, 11.90d, Nyl (Soft Nylon)	2
2	1025095	(10000000- 20000000)	Brush Assy, Disk, Scb, 11.90d, Pyp (Medium Polypropylene)	2
2	1025096	(10000000- 20000000)	Brush Assy, Disk, Scb, 11.9d, Sab (Abrasive)	2
2	399246	(10000000- 20000000)	Brush, Disk, Scr, 13.90d, Assy, Nyl (Soft Nylon)	2
2	399247	(10000000- 20000000)	Brush, Disk, Scr, 13.90d, Assy, Pyp (Medium Polypropylene)	2
2	399245	(10000000- 20000000)	Brush, Disk, Scr, 13.90d, Assy, Sab (Abrasive)	2
2	399243	(10000000- 20000000)	Brush, Disk, Scr, 15.9d, Assy, Nyl (Soft Nylon)	2
2	399244	(10000000- 20000000)	Brush, Disk, Scr, 15.9d, Assy, Pyp (Medium Polypropylene)	2
2	399242	(10000000- 20000000)	Brush, Disk, Scr, 15.9d, Assy, Sab (Abrasive)	2
3	32747	(10000000- 20000000)	Screw, Pan, M6 X 1.0 X 40, Ss	3
4	21852	(10000000- 20000000)	Bracket, Retainer, Spring	2
5	21853	(10000000- 20000000)	Spring, Wir, 0.16d, Brush Retaining (12" Brush Assy)	1
5	1028905	(10000000- 20000000)	Spring, Wir, 0.16d, Brush Retaining, (14" & 16" Brush Assy)	1
6	1017112	(10000000- 20000000)	Hub, Drive, Brush, Disk, 3hole 5.8bc	1

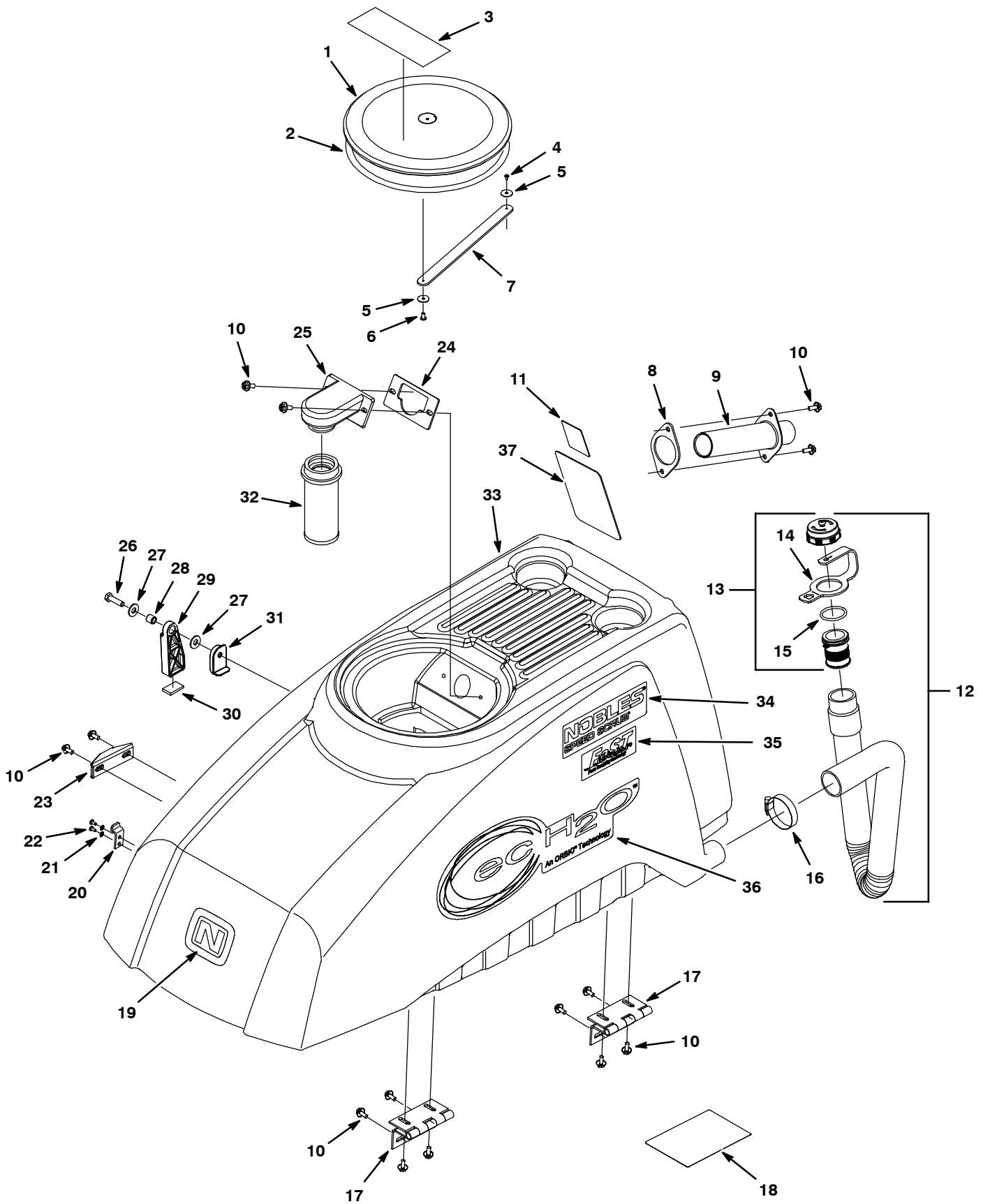
PAD DRIVER GROUP



PAD DRIVER GROUP

Ref.	Part No.	Serial Number	Description	Qty.
1	385944	(10000000- 20000000)	Driver Assy, Pad, 12 D, Brush	2
1	399249	(10000000- 20000000)	Driver Assy, Pad, 14 D, Brush	2
1	399250	(10000000- 20000000)	Driver Assy, Pad, 16 D, Brush	2
2	10908	(10000000- 20000000)	Nut, T, M4 X 0.7	3
3	32747	(10000000- 20000000)	Screw, Pan, M6 X 1.0 X 40, Ss	3
4	21852	(10000000- 20000000)	Bracket, Retainer, Spring	2
5	21853	(10000000- 20000000)	Spring, Wir, 0.16d, Brush Retaining (12" Driver Assy)	1
5	1028905	(10000000- 20000000)	Spring, Wir, 0.16d, Brush Retaining, (14" & 16" Driver Assy)	1
6	1017112	(10000000- 20000000)	Hub, Drive, Brush, Disk, 3hole 5.8bc	1
7	05709	(10000000- 20000000)	Nut, T, M6 X 1.00	3
8	41579	(10000000- 20000000)	Washer, Flat, #8, Ss	3
9	04403	(10000000- 20000000)	Screw, Pan, M4 X 0.7 X 25, Ss, NI	3
10	370095	(10000000- 20000000)	Device, Centering, Clip- On, Teal, Gf Pp	1
11	385940	(10000000- 20000000)	Pad, Polish, 12.0d, White [1pad=1pc] (Polishing)	2
11	385941	(10000000- 20000000)	Pad, Buff, 12.0d, Red [1pad=1pc] (Light Scrubbing & Buffing)	2
11	385942	(10000000- 20000000)	Pad, Scb, 12.0d, Blu [1pick = 1 Pad] (Blue) (Medium Scrubbing)	2
11	385943	(10000000- 20000000)	Pad, Stripping, 12.0d, Brown [1pad=1pc] (Deep Scrubbing & Stripping)	2
11	1051020	(10000000- 20000000)	Pad, Surf Prep, 12.0d [Mar, 1pick=1pad] (Maroon) (Surface Preparation)	2
11	222324	(10000000- 20000000)	Pad, Polish, 14.0d, White [1pad=1pc] (Polishing)	2
11	222325	(10000000- 20000000)	Pad, Buff, 14.0d, Red (Light Scrubbing & Buffing)	2
11	222326	(10000000- 20000000)	Pad, Scb, 14.0d, Blu [1pad=1pc] (Blue) (Medium Scrubbing)	2
11	222327	(10000000- 20000000)	Pad, Stripping, 14.0d, Brown [1pad=1pc] (Deep Scrubbing & Stripping)	2
11	1051026	(10000000- 20000000)	Pad, Surf Prep, 14.0d [Mar, 1pick=1pad] (Maroon) (Surface Preparation)	2
11	63248- 4	(10000000- 20000000)	Pad, Polish, 16.0d, White [1pad=1pc] (Polishing)	2
11	63248- 3	(10000000- 20000000)	Pad, Buff, 16.0d, Red (Light Scrubbing & Buffing)	2
11	63248- 2	(10000000- 20000000)	Pad, Scb, 16.0d, Blu [1pad=1pc] (Blue) (Medium Scrubbing)	2
11	63248- 1	(10000000- 20000000)	Pad, Stripping, 16.0d, Brown [1pad=1pc] (Deep Scrubbing & Stripping)	2
11	1051027	(10000000- 20000000)	Pad, Surf Prep, 16.0d [Mar, 1pick=1pad] (Maroon) (Surface Preparation)	2

Nobles Speed Scrub® (01-2014)



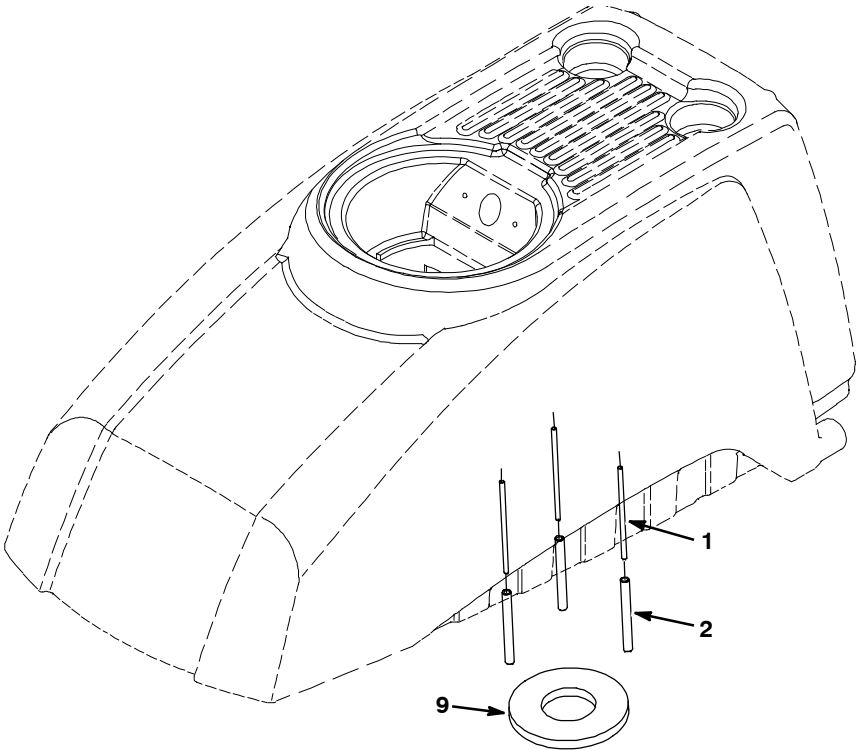
RECOVERY TANK GROUP

	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1017958	(10000000- 20000000)	Lid Assy, Tank, Recvy	1
▲	2	1017959	(10000000- 20000000)	Seal, Bulb, Str, 0.50h .50w 032.0l, Adh	1
▲	3	1026386	(10000000- 20000000)	Label, Warning [Expl,Fire,Shk En/Fr/Es]	1
	4	3701.6	(10000000- 20000000)	Screw, Pan, #06- 32 X 0.38, Phl Ss Shtmtl	1
	5	1009168	(10000000- 20000000)	Washer, Flat, 0.17b 0.75d .04, Ss	2
	6	606915	(10000000- 20000000)	Screw, Pan, #10- 16 X 0.38, Ss, F/ Plstc	1
	7	1001005	(10000000- 20000000)	Strap, Retaining, Cover	1
	8	1024602	(10000000- 20000000)	Gasket, Adapter, Hose .13, Neo, Adh	1
	9	1021214	(10000000- 20000000)	Tube, Hose, Adapter, 1.5d	1
	10	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	14
	11	1025660	(10000000- 20000000)	Label, Nfsi, Thk Adh (Fast & ec-H2O Models)	1
▽	12	1043538	(10000000- 20000000)	Hose Assy, Drain, 1.50id X 29.5l, Blk	1
▲▽	13	1008639	(10000000- 20000000)	Cap, Drain Assy	1
▲▲	14	1019563	(10000000- 20000000)	Strap, Cap, Drain	1
▲▲	15	1008637	(10000000- 20000000)	Seal, Org, 1.48id 1.76od	1
	16	11531	(10000000- 20000000)	Clamp, Hose, Wormdrive, 1.06- 2.00d, .56w	1
	17	1022380	(10000000- 20000000)	Hinge, 7mmpin 3mm Th 73.5mmw 100mml	2
	18	1024802	(10000000- 20000000)	Label, Instr, Battery	1
	19	1034637	(10000000- 20000000)	Label, Front, 3.50 [Nobles Icon]	1
	20	49800	(10000000- 20000000)	Latch	1
	21	02938	(10000000- 20000000)	Washer, Lock, Int, #08, Ss	2
	22	391403	(10000000- 20000000)	Screw, Pan, M4 X 0.7 X 8, Ss	2
	23	1061143	(10000000- 20000000)	Bracket, Guide, Recvy Tank, [T5, Ss5]	1
	24	630255	(10000000- 20000000)	Gasket, Float, Mount	1
	25	630053	(10000000- 20000000)	Mount, Cage, Float [20.0 Scrubber]	1
	26	1039118	(10000000- 20000000)	Screw, Btn, M8 X 1.25 X 30, Blk	1
	27	140027	(10000000- 20000000)	Washer, Flat, 0.35b 0.75d .04, Ss	2
	28	222460	(10000000- 20000000)	Sleeve, P/M, 0.31b 0.50d 0.5l	1
	29	1022399	(10000000- 20000000)	Support, Tank, Prop, Blk, Nyl	1
	30	1032763	(10000000- 20000000)	Gasket, Stand, Support	1
	31	1022904	(10000000- 20000000)	Bracket, Sppt, Stop, Blk, Nyl	1
	32	630052	(10000000- 20000000)	Float, Shut- Off, (2)Ball, 1.75d	1
	33	9003652	(10000000- 20000000)	Tank Kit, Recvy [Ss5]	1
	34	1064991	(10000000- 20000000)	Label, Model [Speed Scrub]	2
	35	1064994	(10000000- 20000000)	Label, Logo, 06.1l Dk Gr [Fast]	2
	36	1064823	(10000000- 20000000)	Label, Logo, 12.3l 4color [Ech2o Nobles]	2
	37	1071570	(10000000- 20000000)	Label, Instr, Ec- H2o, 4.0x6.50	1

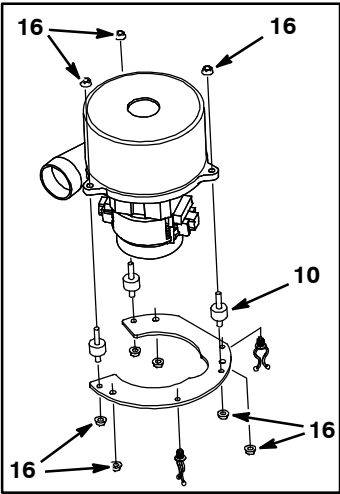
▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

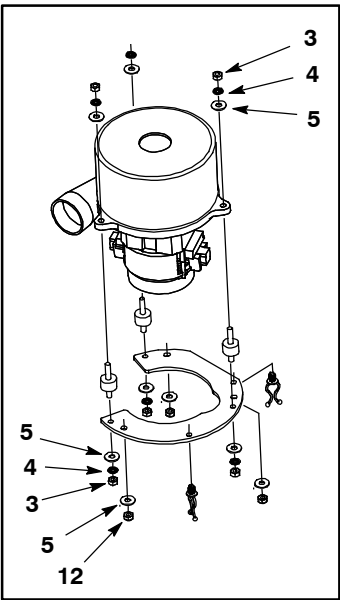
VACUUM MOTOR GROUP



(S/N 10358065- 10519188)



(S/N 10000000- 10358064)



VACUUM MOTOR GROUP

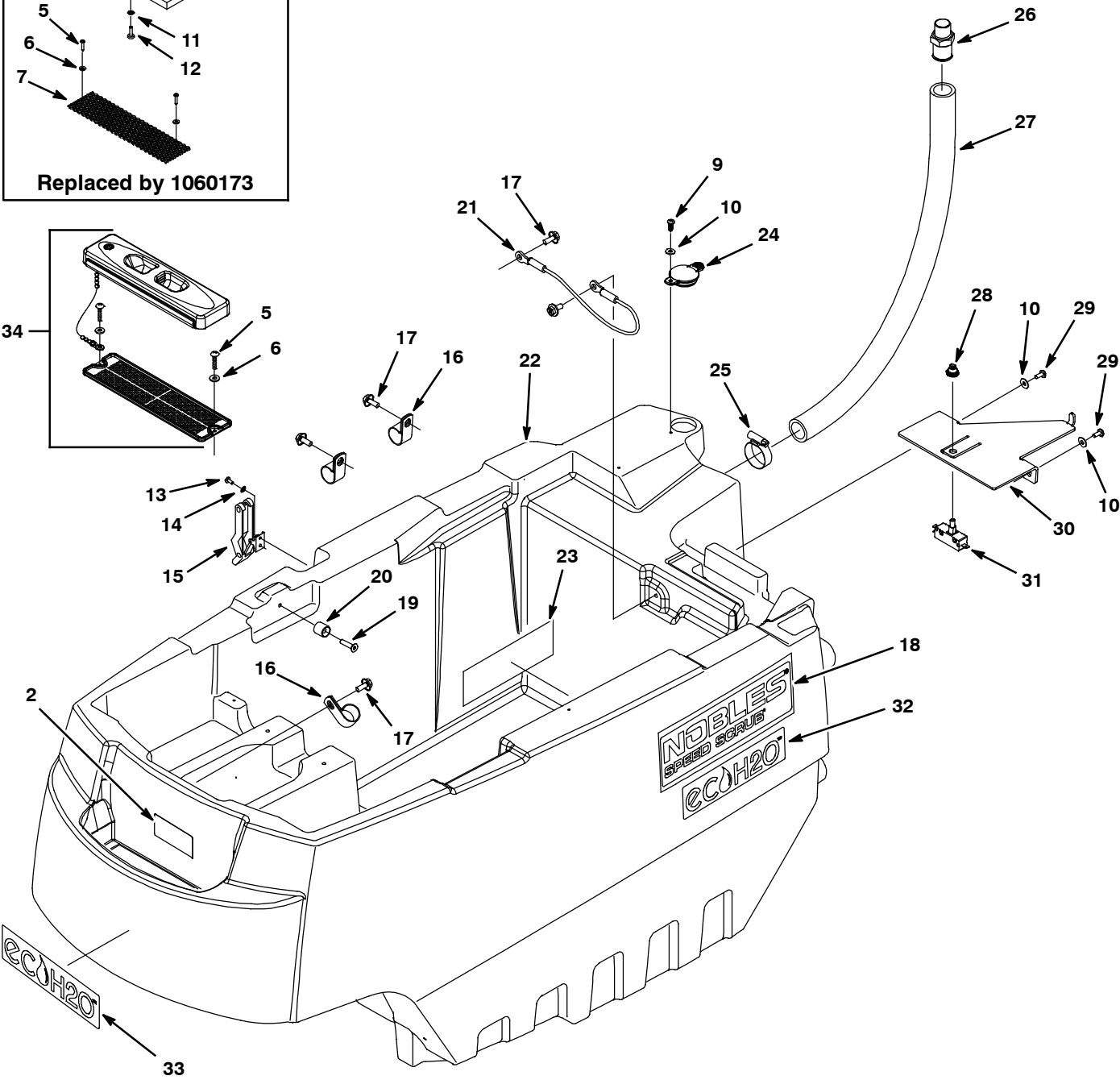
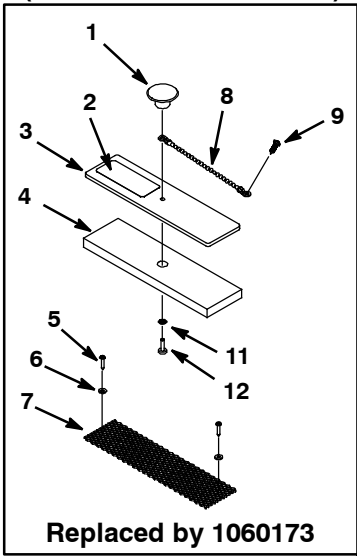
Ref.	Part No.	Serial Number	Description	Qty.	
1	1015412	(10000000- 20000000)	Rod, Thrd, Full, M06 X 1.0 05.5l	3	
2	1022406	(10000000- 20000000)	Tube, 0.43d 0.28b 04.2l, Stl, Pl	3	
3	07785	(10000000- 10358064)	Nut, Hex, Std, M6 X 1.0, A2, Ss	6	
4	07515	(10000000- 10358064)	Washer, Lock, Int, 0.25 Ss	6	
5	01684	(10000000- 10358064)	Washer, Flat, 0.25 Ss	9	
▽	6	1025106	(10000000- 20000000)	Fan, Vacuum, 5.7d, 3s, 24vdc, Us	1
▲	7	1073334	(10000000- 20000000)	Brush, Carbon, Motor, Ele [1pick=1pkg] (1Pkg=2Brushes)	1
▲	8	130487	(10000000- 20000000)	Housing, Motor, Fan, Vent	1
9	100038	(10000000- 20000000)	Gasket, Vacuum Mtr 5.7 Epdm W/Psa	1	
10	1011093	(10000000- 10519188)	Isolator, Vib, .75d, M6 Stud Both Ends	3	
11	30406	(10000000- 20000000)	Clip, Keeper	2	
12	08712	(10000000- 10358064)	Nut, Hex, Lock, M6 X 1.0, Ss, NI	3	
13	1022268	(10000000- 20000000)	Cover, Vac, Noise	1	
14	1024112	(10000000- 20000000)	Pad, Foam, Insulator	1	
15	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	6	
16	1040381	(10519189- 20000000)	Nut, Hex, Flng, M6 X 1.0, Ss [Serrated]	3	
16	1040381	(10358065- 10519188)	Nut, Hex, Flng, M6 X 1.0, Ss [Serrated]	9	
17	1022375	(10000000- 20000000)	Bracket, Mtg, Vacuum	1	
18	390677	(10000000- 20000000)	Muffler, Exhaust, Vacuum Fan, Long	1	
19	130773	(10000000- 20000000)	Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	1	
20	1062016	(10519189- 20000000)	Isolator, Vib, .75d	3	

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SOLUTION TANK GROUP

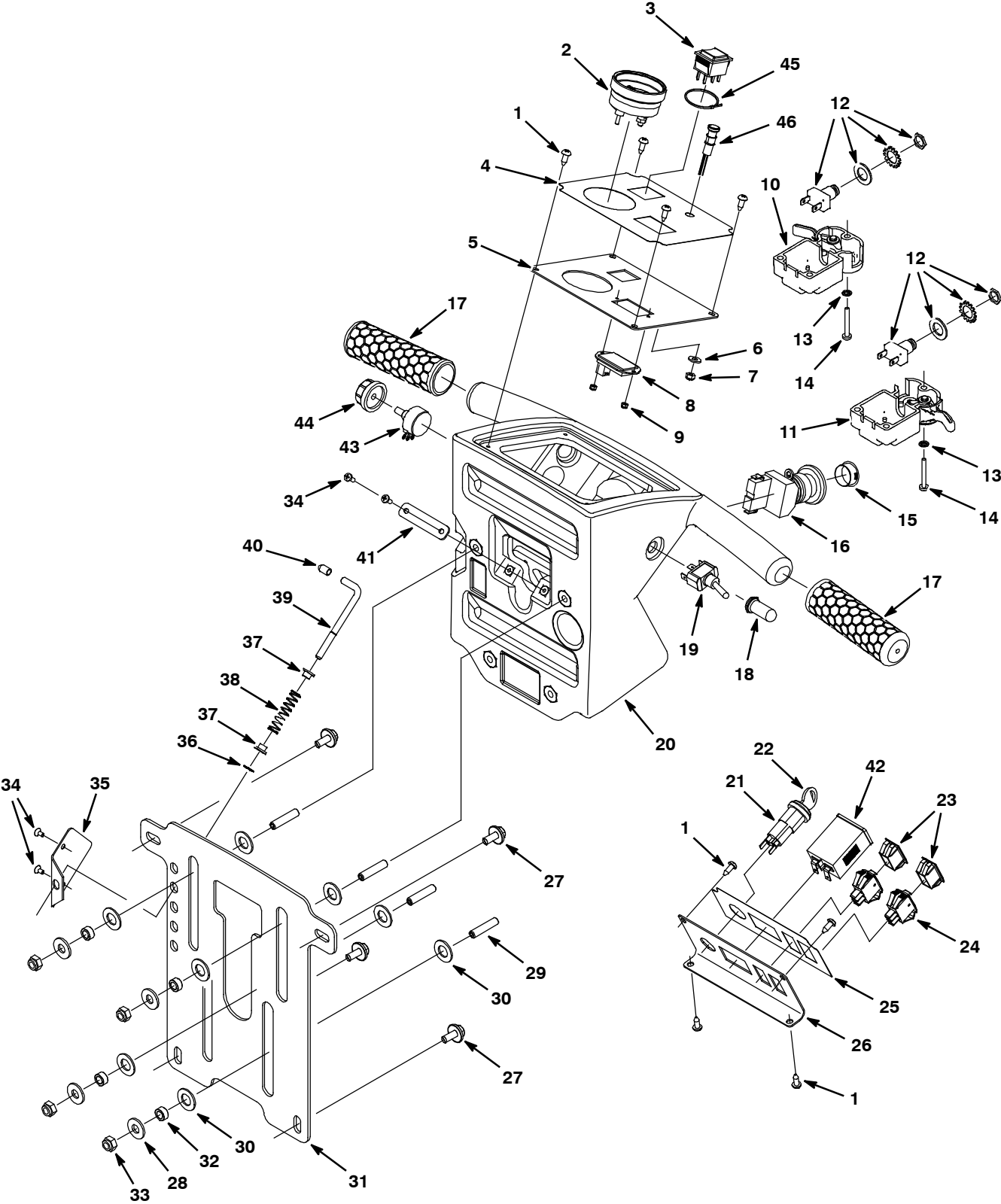
(S/N 10000000- 10517541)



SOLUTION TANK GROUP

Ref.	Part No.	Serial Number	Description	Qty.
1	578301	(10000000- 10517541)	Knob 10- 32f Fill- Cover	1
2	391451	(10000000- 20000000)	Label [Attention Fast Users] (Fast Model)	1
2	1050003	(10378380- 20000000)	Label, User, Attention, Ec- H2o	1
3	605061	(10000000- 10517541)	Cover Solution Fill (Replaced by 1060173)	1
4	605062	(10000000- 10517541)	Gasket, Cover, Soltn Fill (Replaced by 1060173)	1
5	140826	(10000000- 20000000)	Screw, Pan, #06- 32 X 0.75, Ss, Fmg [Ab]	2
6	140032	(10000000- 20000000)	Washer, Flat, #6, Ss	2
7	606146	(10000000- 10517541)	Screen, Fltr, Soltn Fill, Nat (Replaced by 1060173)	1
8	621443	(10000000- 10517541)	Chain, Ball, #10, 157mml, Ss	1
9	1018155	(10000000- 10517541)	Screw, Pan, M5 X 0.8 X16, Ss, Tcut	2
10	01684	(10000000- 20000000)	Washer, Flat 0.25, Ss	3
11	07514	(10000000- 10517541)	Washer, Lock, Int, #10, Ss	1
12	140841	(10000000- 10517541)	Screw, Pan, #10- 32 X 0.62, Phl, Ss	1
13	391403	(10000000- 20000000)	Screw, Pan, M4 X 0.7 X 8, Ss	2
14	02938	(10000000- 20000000)	Washer, Lock, Int, #08, Ss	2
15	49800	(10000000- 20000000)	Latch	1
16	630428	(10000000- 20000000)	Clamp, Cable, Stl, 1.00d X 0.50w, .25mnt	3
17	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	5
18	1024781	(10000000- 20000000)	Label, Side [Spdscrub] (Replaced by 1064991)	2
19	222692	(10000000- 20000000)	Screw, Flt, M8 X1.25 X 25, Ss, 18- 8, NI	1
20	1027028	(10000000- 20000000)	Spacer, Guide, Tank	1
21	140960	(10000000- 20000000)	Cable, Glv .13d 014.5l .34eye /.34eye	1
22	9003653	(10000000- 20000000)	Tank Kit, Soltn [Ss5]	1
23	1028175	(10000000- 20000000)	Label, Instr [Charger Setting]	1
24	1012965	(10000000- 20000000)	Cap, Port, Soltn Fill	1
25	11399	(10000000- 20000000)	Clamp, Hose, Wormdrive, 0.81- 1.50d, .50w	1
26	1041082	(10000000- 20000000)	Fitting, Plstc, Str, Bm16/Pm12	1
27	1023809	(10000000- 20000000)	Hose, Drain, 1.00id X 22.8l, Vyl [T5]	1
28	1035711	(10000000- 20000000)	Boot, Switch, Hex Nut, .38- 32 Thd	1
29	609062	(10000000- 20000000)	Screw, Trs, M5 X 0.80 X 12, Phl, Ss	2
30	1026571	(10000000- 20000000)	Bracket, Hose, Cable Stay	1
31	1071996	(10000000- 20000000)	Switch, Push, Snap Action, 25a	1
32	1050019	(10378380- 20000000)	Label, Side, Ec- H2o [Ss3/Ss5/Ssrider] (NLA - Rpld by 1064823 - see Recovery Tank Group)	2
33	1050020	(10378380- 20000000)	Label, Front, Ec- H2o [Ss5] (NLA - No Longer Available)	1
34	1060173	(10517542- 20000000)	Cover Assy, Tank, Soltn Fill	1

CONTROL CONSOLE GROUP



CONTROL CONSOLE GROUP

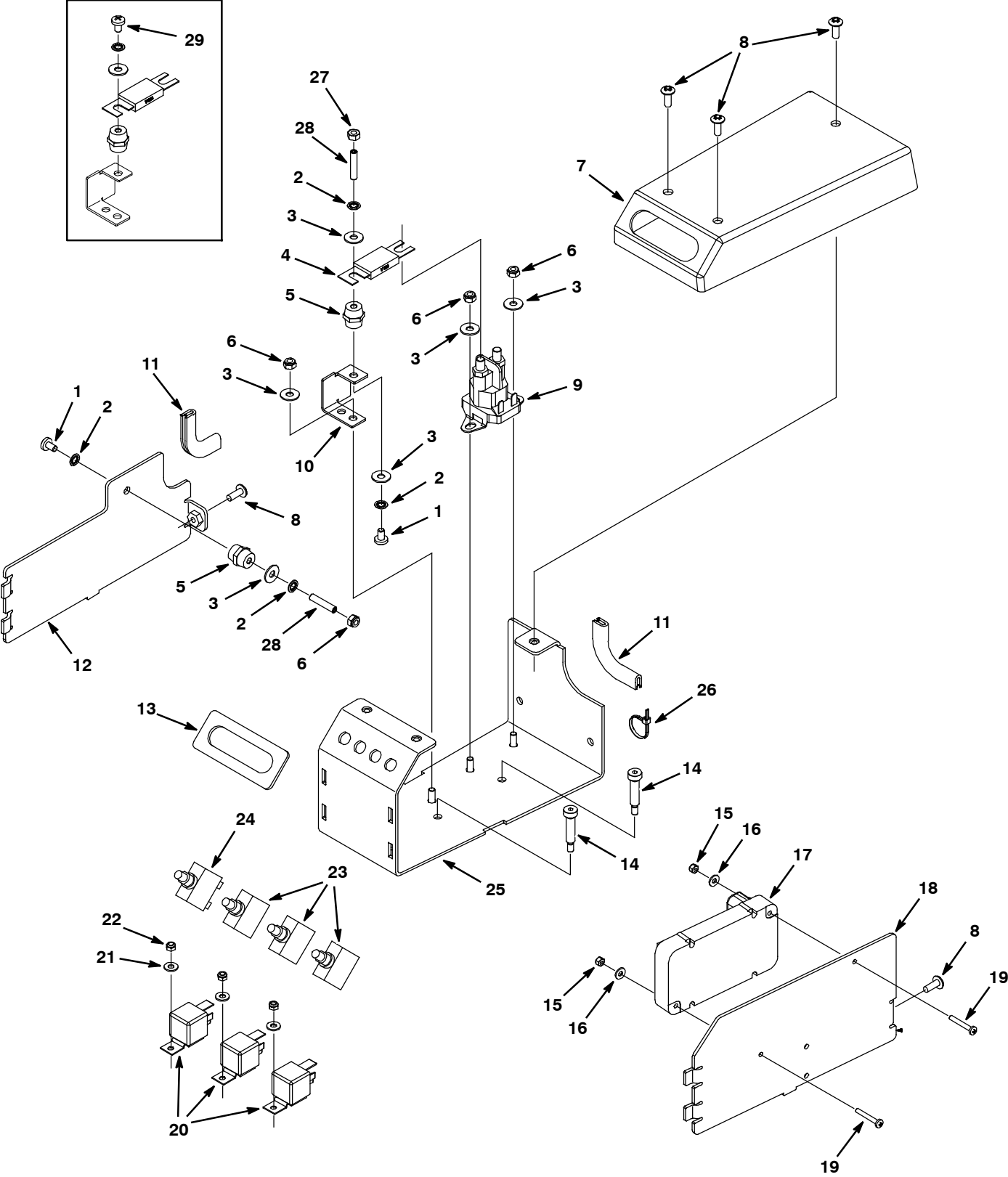
Ref.	Part No.	Serial Number	Description	Qty.	
1	1009324	(10000000- 20000000)	Screw, Pan, #10- 16 X 0.50,Phl,Blk[Ty- 17]	8	
2	1041318	(10000000- 20000000)	Gauge, Press, Brush, Afmkt 0- 20- 40a[Ss5]	1	
3	1007012	(10000000- 20000000)	Switch, Rocker, Dpdt Mom/Off/Mom	1	
4	1025114	(10000000- 20000000)	Label,Opertnl, Upper (Standard & Fast Models)	1	
4	1050010	(10378380- 20000000)	Label, Console, Upper Ec- H2o [T5e/Ss5]	1	
5	1041719	(10000000- 20000000)	Panel, Opertnl, Upper [Ss5]	1	
6	01683	(10000000- 20000000)	Washer, Flat, #10, Ss	1	
7	09739	(10000000- 20000000)	Nut, Hex, Lock, M5 X 0.80, NI, Ss	1	
8	392894	(10000000- 20000000)	Gauge, Discharge, Battery, 36vdc, Rt,Led	1	
9	579211	(10000000- 20000000)	Nut, Hex, Lock, M3 X 0.50, Ss	2	
▽	10	1063175	(10000000- 20000000)	Controlbox Assy, Trigger, Rh	1
▽	11	1063198	(10000000- 20000000)	Controlbox Assy, Trigger, Lh	1
▲	12	9010860	(10000000- 20000000)	Switch Kit, W/ Washers, Fr/ F/1072041	2
	13	02938	(10000000- 20000000)	Washer, Lock, Int, #08, Ss	6
	14	33931	(10000000- 20000000)	Screw, Pan, Phl, M4 X 0.70 X 30, Ss	6
	15	130161	(10000000- 20000000)	Plug, Hole, Rnd, 0.875d, Blk	1
	16	1011735	(10000000- 20000000)	Switch, Safety, Shutoff (Optional)	1
	17	1026407	(10000000- 20000000)	Grip, Handle, 1.25d X 4.75l	2
	18	130753	(10000000- 20000000)	Boot, Switch 1.00l Blk	1
	19	601108	(10000000- 20000000)	Switch, Toggle, Mom/On/On	1
	20	9003654	(10000000- 20000000)	Housing Kit, Cntrl [Ss5]	1
▽	21	1011402	(10000000- 20000000)	Switch, Key	1
▲	22	1017696	(10000000- 20000000)	Key, Replmt [F/ Keyswitch 1011402]	1
	23	582150	(10000000- 20000000)	Plug, Hole, Rt, 1.23 X 1.12, Nyl	2
	24	130787	(10000000- 20000000)	Switch, Rocker, Spdt (Optional)	2
	25	1025116	(10000000- 20000000)	Label, Opertnl, Lower (Standard & Fast Models)	1
	25	1050011	(10378380- 20000000)	Label, Console, Lower, Ec- H2o [T5e/Ss5]	1
	26	1024111	(10000000- 20000000)	Panel, Instmt, Lower	1
	27	1020341	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Ss, Sems	4
	28	01685	(10000000- 20000000)	Washer, Flat, 0.31, Ss	4
	29	607461	(10000000- 20000000)	Screw, Set, M8 X 1.25 X 35, NI	4
	30	608562	(10000000- 20000000)	Washer, Flat, 0.51b 0.94d .06, Nyl	8
	31	1022888	(10000000- 20000000)	Bracket, Mtg, Console	1
	32	607783	(10000000- 20000000)	Bearing, Sleeve, .31id X .50od X .25,Bnz	4
	33	08709	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI	4
	34	607006	(10000000- 20000000)	Screw, Trs, M4 X 0.70 X 12, Phl, Pl	4
	35	630087	(10000000- 20000000)	Plate, Latch, Retainer	1
	36	630084	(10000000- 20000000)	Ring, Retaining, Ext, 4.62mm, [E- Ring]	1
	37	630083	(10000000- 20000000)	Bushing, Latch	2
	38	630082	(10000000- 20000000)	Spring, Cmpr, 10.7d, 0.9w, 44.4l, Pl[Mw]	1
	39	630081	(10000000- 20000000)	Lever, Latch, Console Adjust	1
	40	630094	(10000000- 20000000)	Cap, Vinyl, 2.26 ld X 12.7lg, Blk	1
	41	1026699	(10000000- 20000000)	Bracket, Retaining	1
	42	1064038	(10000000- 20000000)	Gauge, Hourmeter, 05- 277 Volt, Ac / Dc	1
	43	1042687	(10000000- 20000000)	Harness, Pot, Wire Assy [45k Ohm]	1
	44	1028037	(10000000- 20000000)	Knob, 1.25 Dia	1
	45	130773	(10000000- 20000000)	Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	1
	46	1041822	(10378380- 20000000)	Light, Led, .312D, 5 Volt [Tri- Color] (ec-H2O Model)	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

COMPONENT PANEL GROUP

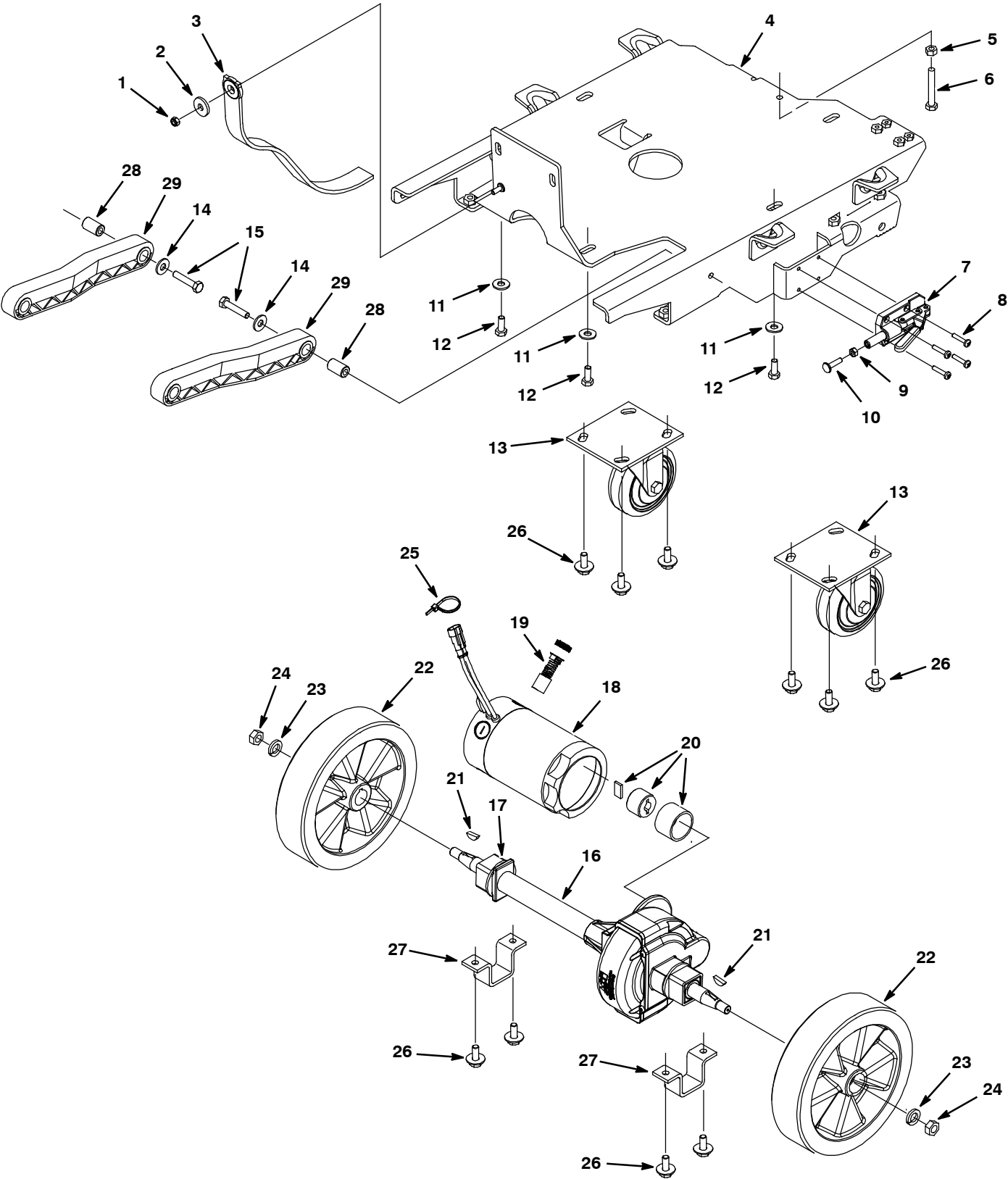
(S/N 10000000- 10473939)



COMPONENT PANEL GROUP

Ref.	Part No.	Serial Number	Description	Qty.
1	48732	(10473940- 20000000)	Screw, Pan, M6 X 1.0 X 10, Ss	2
2	07515	(10000000- 20000000)	Washer, Lock, Int, 0.25, Ss	4
3	01684	(10000000- 20000000)	Washer, Flat, 0.25, Ss	6
4	86379	(10000000- 20000000)	Fuse, 100a 125volt 0.88 X 3.2l	1
5	1013523	(10000000- 20000000)	Stand- Off, Wir, M6, 18 Hex, 20l, Insul	2
6	08712	(10000000- 20000000)	Nut, Hex, Lock, M6 X 1.00, Ss, NI	4
7	1024712	(10000000- 20000000)	Cover, Electronics	1
8	608322	(10000000- 20000000)	Screw, Trs, M6 X 1.00 X 16, Phl, Ss	5
9	1038490	(10000000- 20000000)	Relay, 24vdc, 100a, No [Trombetta]	1
10	1023868	(10000000- 20000000)	Bracket, Stand- Off	1
11	1027209	(10000000- 20000000)	Trim, Edge, Plstc, .12 X 65mm	2
12	1026777	(10000000- 20000000)	Brkt, Side, Rh	1
13	1025658	(10000000- 20000000)	Gasket, Cover, Electronics	1
14	1024965	(10000000- 20000000)	Bolt, Shld, 08mmd X 030mm, M06 X 1.0	2
15	33932	(10000000- 20000000)	Nut, Hex, Lock, M4 X 0.70, NI, Ss	2
16	41579	(10000000- 20000000)	Washer, Flat, #08, Ss	2
17	1052261	(10000000- 20000000)	Module, Cntrl, Drive [Ss5]	1
18	1029123	(10000000- 20000000)	Brkt, Side, Lh	1
19	33931	(10000000- 20000000)	Screw, Pan, M4 X 0.7 X 30, Ss	2
20	1012216	(10000000- 20000000)	Relay, 24vdc, 070a, Spst No, Plug- In	3
21	01683	(10000000- 20000000)	Washer, Flat, #10, Ss	3
22	09739	(10000000- 20000000)	Nut, Hex, Lock, M5 X 0.80, NI, Ss	3
23	383724	(10000000- 20000000)	Circuitbreaker, 25.0a, Resetable	3
24	383721	(10000000- 20000000)	Circuitbreaker, 10.0a	1
25	1026776	(10000000- 20000000)	Wldt, Panel, Elec	1
26	130773	(10000000- 20000000)	Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	1
27	07785	(10473940- 20000000)	Nut, Hex, Std, M6 X 1.00, Ss	1
28	1018559	(10473940- 20000000)	Screw, Set, M6 X 1.0 X 30, Ss	2
29	48732	(10000000- 10473939)	Screw, Pan, M6 X 1.0 X 10, Ss (Replaced By #27 & 28)	1

FRAME GROUP



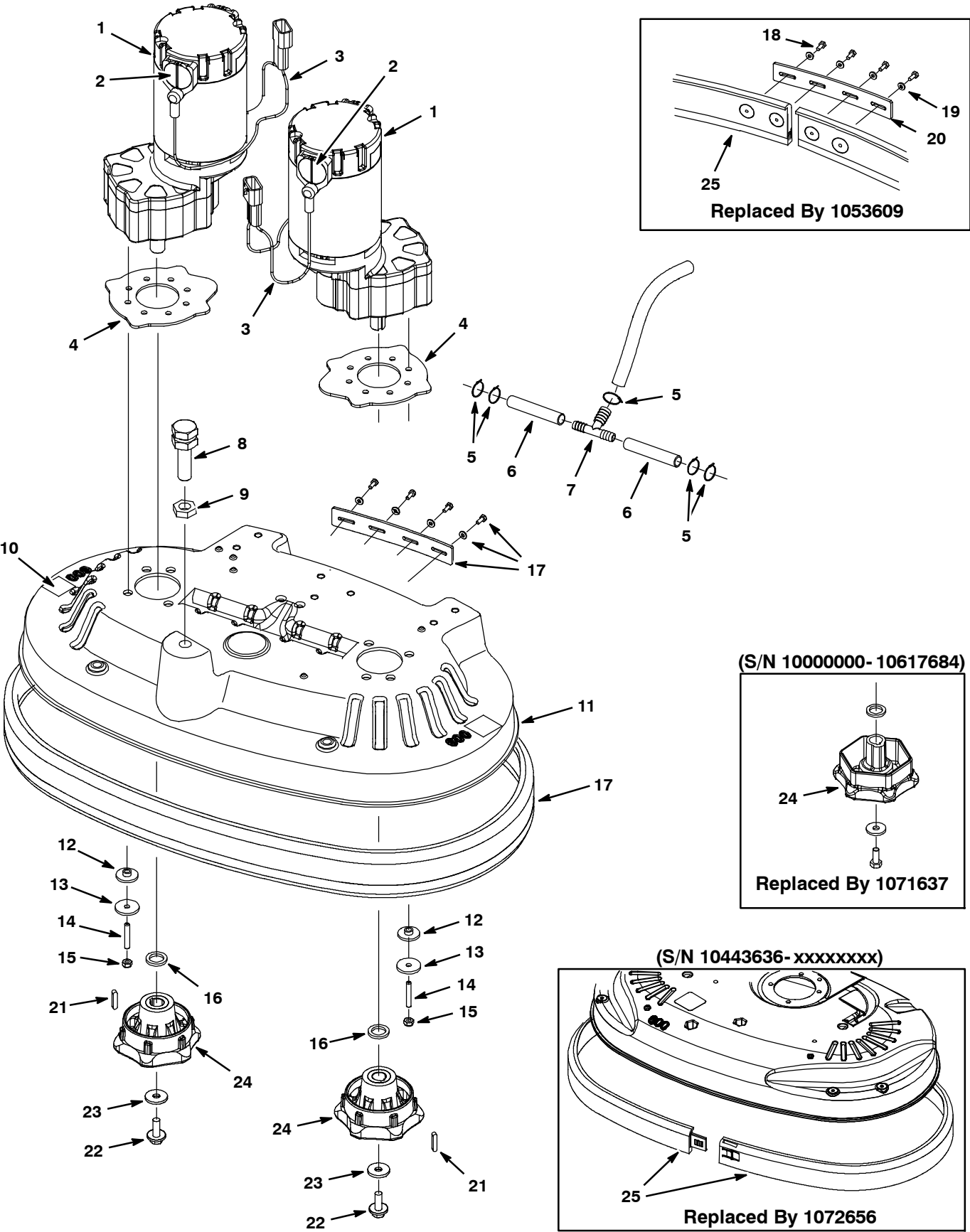
FRAME GROUP

Ref.	Part No.	Serial Number	Description	Qty.	
1	08712	(10000000- 20000000)	Nut, Hex, Lock, M6 X 1.0, Ss, NI	1	
2	140053	(10000000- 20000000)	Washer, Flat, 0.28b 0.88d .12, Ss	1	
3	1029181	(10000000- 20000000)	Strap, Static	1	
4	1020959	(10000000- 20000000)	Frame Wldt, Transaxle	1	
5	07786	(10000000- 20000000)	Nut, Hex, Std, M8 X 1.25, Ss	1	
6	222504	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 55, Ss	1	
7	1022878	(10000000- 20000000)	Clamp, Str, 30mm Strk (Optional)	1	
8	1030769	(10000000- 20000000)	Screw, Pan, M5 X 0.8 X 25 Fmg	4	
9	07785	(10000000- 20000000)	Nut, Hex, Std, M6 X 1.0, A2, Ss	1	
10	1017416	(10000000- 20000000)	Screw, Weld, M06 X 1.00 X 25, Thru, Ss	1	
11	1016331	(10000000- 20000000)	Washer, Flat, 0.34b 1.25d .11, Ss	5	
12	12273	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Ss, NI	5	
13	1049048	(10000000- 20000000)	Caster, Swivel, 4.0d 1.4w, 4hole [400lb]	2	
14	01685	(10000000- 20000000)	Washer, Flat, 0.31 Ss	2	
15	74440	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 40, Ss, NI	2	
▽	16	1021168	(10000000- 20000000)	Transaxle, 24vdc, 110rpm [Asi]	1
▲	17	612880	(10000000- 20000000)	Sleeve, Transaxle, Replmt	2
▲▽	18	1031723	(10000000- 20000000)	Motor, Transaxle, 24vdc, Replmt, Asi	1
▲▲	19	614166	(10000000- 20000000)	Brush Kit, Carbon [Qty 4]	1
▲	20	1017782	(10000000- 20000000)	Coupling Kit, Transaxle, Replmt [11057]	1
▲	21	1021167	(10000000- 20000000)	Key, Woodruff, 5mm	2
▽		9004909	(10000000- 20000000)	Wheel Kit, Solid, Ci [T5 T5e Ss5]	1
▲	22	1020688	(10000000- 20000000)	Wheel, Scrbr, 213.00mm With Taper	2
	23	140024	(10000000- 20000000)	Washer, Lock, Splt, 0.50, Ss	2
	24	07788	(10000000- 20000000)	Nut, Hex, Std, M12 X 1.75, Ss	2
	25	130773	(10000000- 20000000)	Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	4
	26	1020341	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Ss, Sems	12
	27	606001	(10000000- 20000000)	Bracket, Transaxle, Mtg, Ylw Zn	2
	28	606056	(10000000- 20000000)	Tube, 00.62d 00.32b 01.0l Stl Plt	2
	29	222027	(10000000- 20000000)	Arm, Lift, Head,	2

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, DISK 24 in / 600 mm



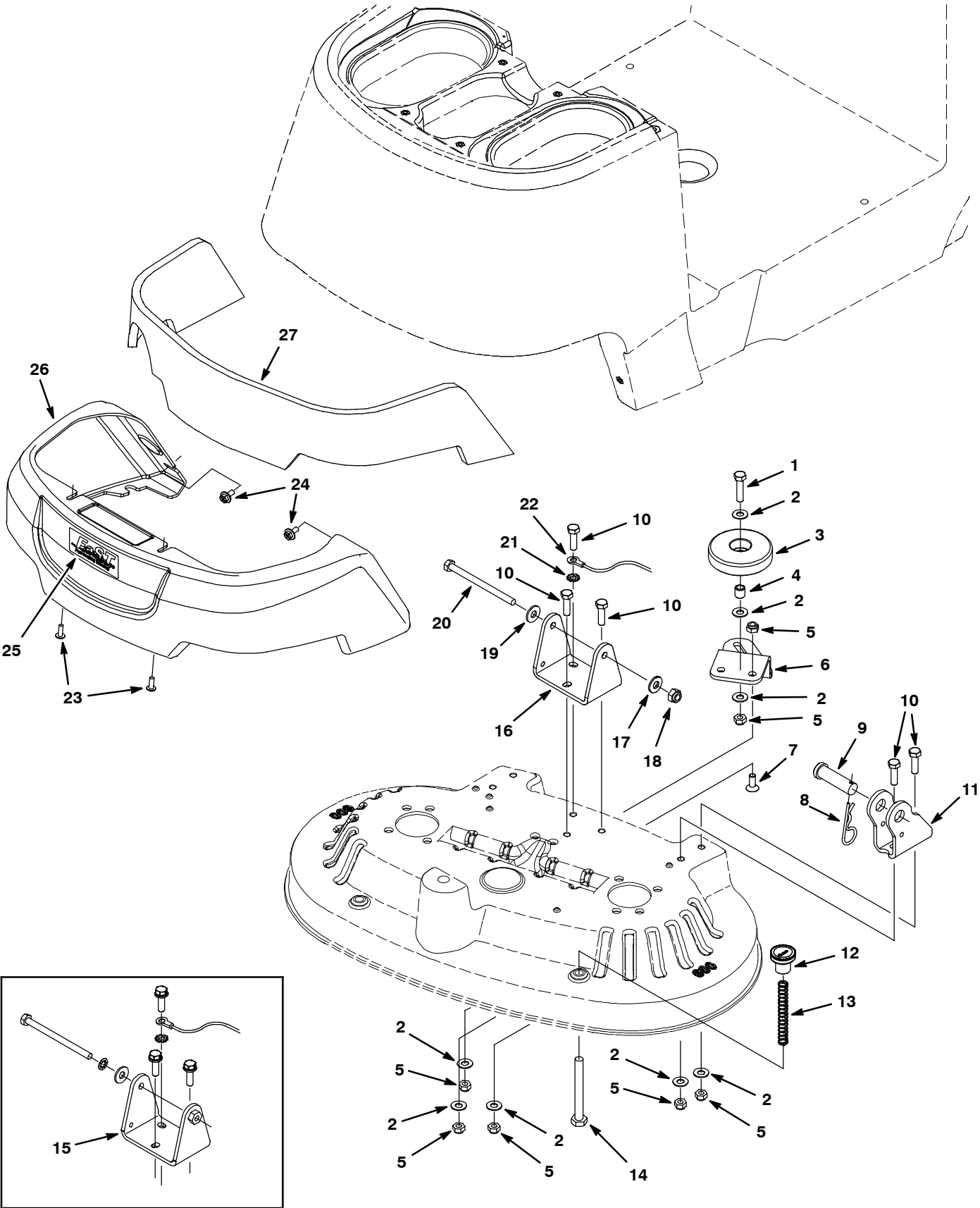
SCRUB HEAD GROUP, DISK 24 in / 600 mm

	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1023067	(10000000- 20000000)	Motor, Gearbox, 24vdc, 220rpm, 0.75hp	2
▲	2	1031775	(10000000- 20000000)	Brush, Brush- Motor, Afmkt	1
▲	3	1031681	(10000000- 20000000)	Harness, Connector, Brush- Motor- Us	1
	4	1024321	(10000000- 20000000)	Spacer, Rbr, Motor	2
	5	130773	(10000000- 20000000)	Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	7
	6	606362	(10000000- 20000000)	Hose 3/8IdX5/8OdX6.5 (611254)	2
	7	1022556	(10000000- 20000000)	Fitting, Plstc, Tee, Bm06/Bm06/Bm08	1
	8	1022424	(10000000- 20000000)	Stud, Adj, M16, Scrub Head	1
	9	763066	(10000000- 20000000)	Nut, Hex, Jam, M16 X 2.0	1
	10	578769	(10000000- 20000000)	Label, Moving Parts	2
	11	1022402	(10000000- 20000000)	Housing, Casting, Head, 60cm, Mach	1
	12	1025160	(10000000- 20000000)	Grommet, Isolator, 6b X 10od X 26.0fl	8
	13	386063	(10000000- 20000000)	Washer, Flat, 0.25b 1.12d .12, Ss	8
	14	1025853	(10000000- 20000000)	Screw, Set, M6 X 1.00 X 35, Ss, NI	8
	15	08712	(10000000- 20000000)	Nut, Hex, Lock, M6 X 1.0, Ss, NI	8
	16	1022549	(10000000- 20000000)	Spacer, Shaft, 17.15b, 25.0d, 3.0t	2
	17	1072656	(xxxxxxx- 20000000)	Bumper, Head, 60cm, Bristle Skirt (Includes Mounting Hardware & Retaining Strap)	1
	18	1020234	(10000000- 10443635)	Screw, Hex, M4 X 0.7 X 10, Ss	4
	19	41578	(10000000- 10443635)	Washer, Flat, #06 Ss	4
	20	1023573	(10000000- 10443635)	Strap, Retaining, Skirt (Replaced by 1053609)	1
	21	1014328	(10000000- 20000000)	Key, Sq, 05mm X 05mm, 25l	2
	22	1072628	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 25, Ss, Sems	2
	23	1017218	(10000000- 20000000)	Washer, Flat, 0.32b 1.00d .12, Ss	2
	24	1071637	(10617685- 20000000)	Hub, Drive, Brush, Disk, 17mmb	2
	24	1022550	(10000000- 10617684)	Hub, Drive, Brush, Disk, 17mm (Replaced by 1071637)	2
	25	1053609	(10443636- xxxxxxxx)	Bumper, Head, 60cm, Bristle Skirt (Replaced by 1072656)	1
	25	1024938	(10000000- 10443635)	Bumper, Head, 60cm, Bristle Skirt, Assy (Replaced by 1053609)	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, DISK 24 in / 600 mm - CONT'D



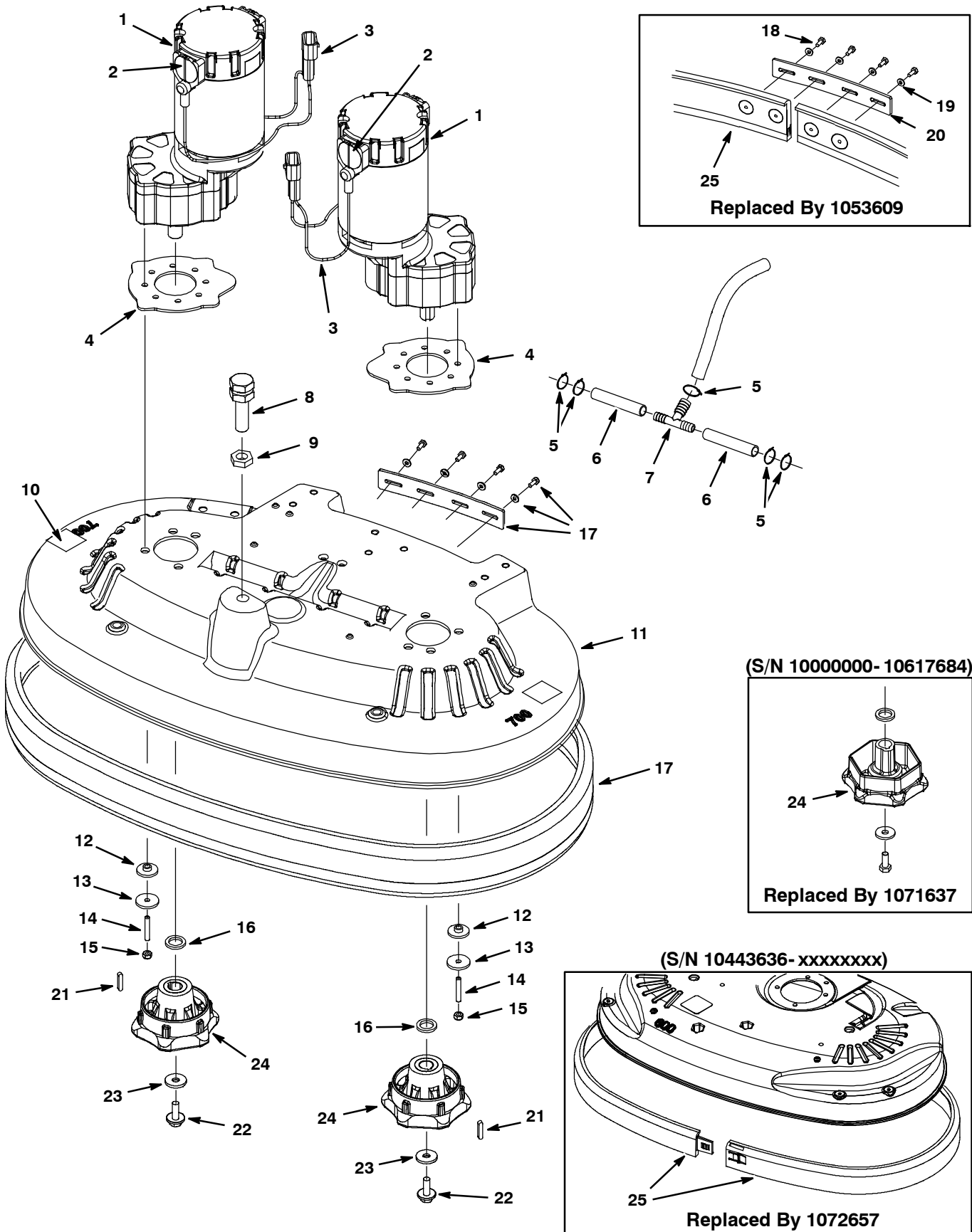
SCRUB HEAD GROUP, DISK 24 in / 600 mm - CONT'D

Ref.	Part No.	Serial Number	Description	Qty.	
1	09023	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 35, Ss, Fl	1	
2	140027	(10000000- 20000000)	Washer, Flat, 0.35b 0.75d .04, Ss	10	
3	1010560	(10000000- 20000000)	Wheel, Bmpr, 80d X 25w, Non- Marking	1	
4	222460	(10000000- 20000000)	Sleeve, P/M, 0.496d 0.318b 0.50l 430ss	1	
5	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	10	
6	1022344	(10000000- 20000000)	Bracket, Roller, Wall, Scrubhead, 60cm	1	
7	79246	(10000000- 20000000)	Screw, Flt, M8 X 1.25 X 20, Ss 18- 8	2	
8	02942	(10000000- 20000000)	Pin, Hair Cotter, 0.62 D .120 Wir	2	
9	222210	(10000000- 20000000)	Pin, Clevis, 0.62 D X 2.12l	2	
10	09011	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	7	
11	1022227	(10000000- 20000000)	Bracket, Link, Scrubhead	2	
12	1024179	(10000000- 20000000)	Knob, Knurled, M10 Thread	2	
13	626081	(10000000- 20000000)	Spring, Cmpr, 12.1d, 0.9w, 90.0l	2	
14	09746	(10000000- 20000000)	Screw, Hex, M10 X 1.5 X 90, Ss	2	
15	N/A	(10000000- 10325113)	(Replaced By Items #16, 17, & 18)	1	
16	1036022	(10325114- 20000000)	Bracket, Mtg, Actuator, Scb Head	1	
17	01685	(10325114- 20000000)	Washer, Flat, 0.31 Ss	1	
18	08713	(10325114- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	1	
19	01685	(10000000- 20000000)	Washer, Flat, 0.31 Ss	1	
20	364441	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 110, Ss	1	
21	43952	(10000000- 20000000)	Washer, Lock, Int, 0.31, Ss	1	
22	1031370	(10000000- 20000000)	Wire, 12 Awg X 250mm	1	
23	608322	(10000000- 20000000)	Screw, Trs, M6 X 1.0 X 16, Phl, Ss	2	
24	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	2	
25	1034921	(10000000- 20000000)	Label, Logo, White/Black, 4.00l [Fast] (NLA - No Longer Available)	1	
▽	26	9003252	(10000000- 20000000)	Cover Kit, Head, Disc, Replmt [Ss5]	1
▲	27	1027068	(10000000- 20000000)	Insulation, Sound, Front	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, DISK 28 in / 700 mm



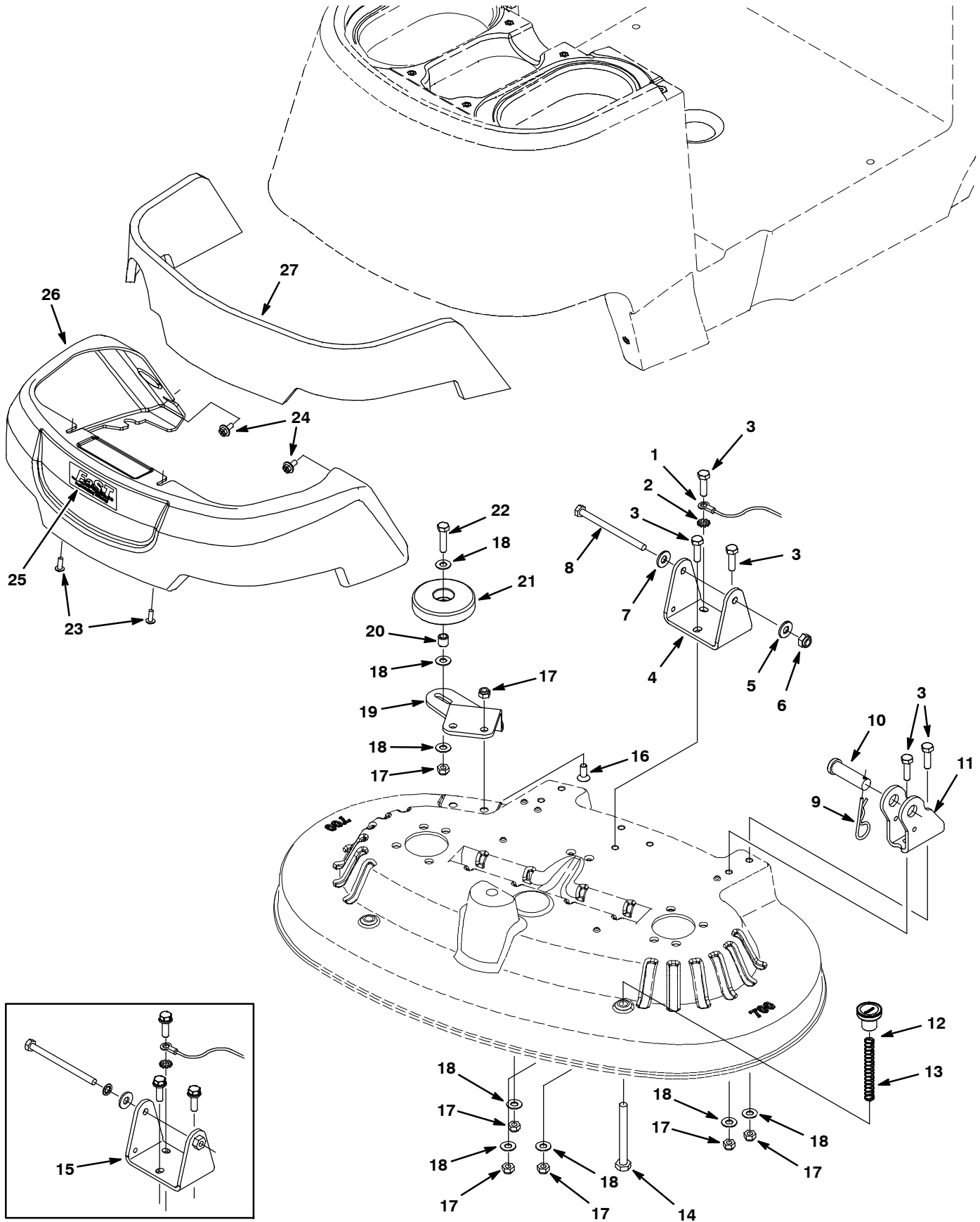
SCRUB HEAD GROUP, DISK 28 in / 700 mm

	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1023067	(10000000- 20000000)	Motor, Gearbox, 24vdc, 220rpm, 0.75hp	2
▲	2	1031775	(10000000- 20000000)	Brush, Brush- Motor, Afmkt	1
▲	3	1031681	(10000000- 20000000)	Harness, Connector, Brush- Motor- Us	1
	4	1024321	(10000000- 20000000)	Spacer, Rbr, Motor	2
	5	130773	(10000000- 20000000)	Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	7
	6	606362	(10000000- 20000000)	Hose 3/8IdX5/8OdX6.5 (611254)	2
	7	1022556	(10000000- 20000000)	Fitting, Plstc, Tee, Bm06/Bm06/Bm08	1
	8	1022424	(10000000- 20000000)	Stud, Adj, M16, Scrub Head	1
	9	763066	(10000000- 20000000)	Nut, Hex, Jam, M16 X 2.0	1
	10	578769	(10000000- 20000000)	Label, Moving Parts	2
	11	1023182	(10000000- 20000000)	Housing, Casting, Head, 70cm, Mach	1
	12	1025160	(10000000- 20000000)	Grommet, Isolator, 6b X 10od X 26.0fl	8
	13	386063	(10000000- 20000000)	Washer, Flat, 0.25b 1.12d .12, Ss	8
	14	1025853	(10000000- 20000000)	Screw, Set, M6 X 1.00 X 35, Ss, NI	8
	15	08712	(10000000- 20000000)	Nut, Hex, Lock, M6 X 1.0, Ss, NI	8
	16	1022549	(10000000- 20000000)	Spacer, Shaft, 17.15b, 25.0d, 3.0t	2
	17	1072657	(xxxxxxx- 20000000)	Bumper, Head, 70cm, Bristle Skirt (Includes Mounting Hardware & Retaining Strap)	1
	18	1020234	(10000000- 10446231)	Screw, Hex, M4 X 0.7 X 10, Ss	4
	19	41578	(10000000- 10446231)	Washer, Flat, #06 Ss	4
	20	1023573	(10000000- 10446231)	Strap, Retaining, Skirt (Replaced by 1053613)	1
	21	1014328	(10000000- 20000000)	Key, Sq, 05mm X 05mm, 25l	2
	22	1072628	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 25, Ss, Sems	2
	23	1017218	(10000000- 20000000)	Washer, Flat, 0.32b 1.00d .12, Ss	2
	24	1071637	(10617685- 20000000)	Hub, Drive, Brush, Disk, 17mmb	2
	24	1022550	(10000000- 10617684)	Hub, Drive, Brush, Disk, 17mm (Replaced by 1071637)	2
	25	1053613	(10446232- xxxxxxxx)	Bumper, Head, 70cm, Bristle Skirt (Replaced by 1072657)	1
	25	1023802	(10000000- 10446231)	Bumper, Head, 70cm, Bristle Skirt, Assy (Replaced by 1053613)	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, DISK 28 in / 700 mm - CONT'D



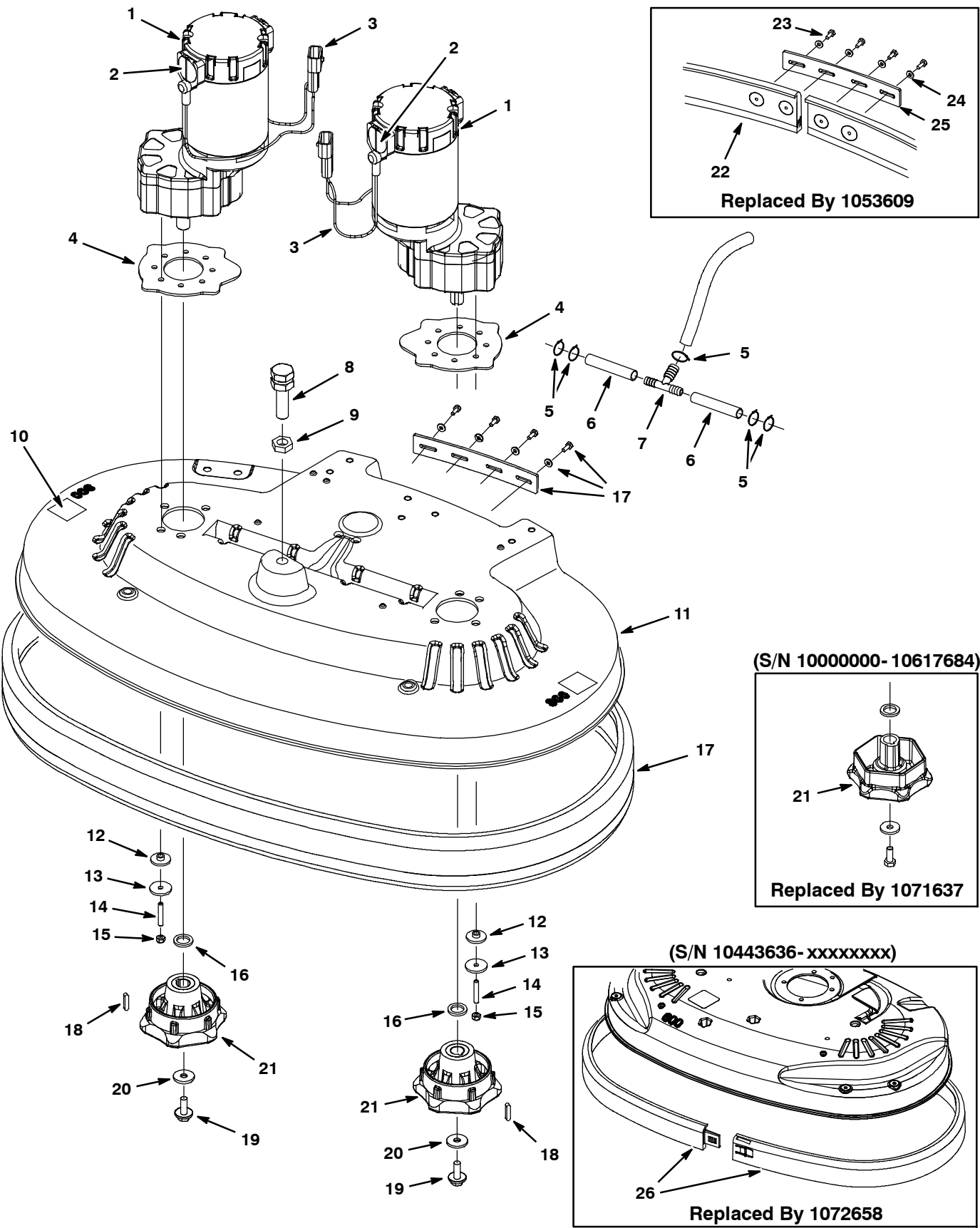
SCRUB HEAD GROUP, DISK 28 in / 700 mm - CONT'D

Ref.	Part No.	Serial Number	Description	Qty.	
1	1031370	(10000000- 20000000)	Wire, 12 Awg X 250mm	1	
2	43952	(10000000- 20000000)	Washer, Lock, Int, 0.31, Ss	1	
3	09011	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	7	
4	1036022	(10325114- 20000000)	Bracket, Mtg, Actuator, Scb Head	1	
5	01685	(10325114- 20000000)	Washer, Flat, 0.31 Ss	1	
6	08713	(10325114- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	1	
7	01685	(10000000- 20000000)	Washer, Flat, 0.31 Ss	1	
8	364441	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 110, Ss	1	
9	02942	(10000000- 20000000)	Pin, Hair Cotter, 0.62 D .120 Wir	2	
10	222210	(10000000- 20000000)	Pin, Clevis, 0.62 D X 2.12l	2	
11	1022227	(10000000- 20000000)	Bracket, Link, Scrubhead	2	
12	1024179	(10000000- 20000000)	Knob, Knurled, M10 Thread	2	
13	626081	(10000000- 20000000)	Spring, Cmpr, 12.1d, 0.9w, 90.0l	2	
14	09746	(10000000- 20000000)	Screw, Hex, M10 X 1.5 X 90, Ss	2	
15	N/A	(10000000- 10325113)	(Replaced By Items #4, 5, & 6)	1	
16	79246	(10000000- 20000000)	Screw, Flt, M8 X 1.25 X 20, Ss 18- 8	2	
17	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	10	
18	140027	(10000000- 20000000)	Washer, Flat, 0.35b 0.75d .04, Ss	10	
19	1023268	(10000000- 20000000)	Bracket, Roller, Wall, Scb Head, 70cm	1	
20	222460	(10000000- 20000000)	Sleeve, P/M, 0.496d 0.318b 0.50l 430ss	1	
21	1010560	(10000000- 20000000)	Wheel, Bmpr, 80d X 25w, Non- Marking	1	
22	09023	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 35, Ss, Fl	1	
23	608322	(10000000- 20000000)	Screw, Trs, M6 X 1.0 X 16, Phl, Ss	2	
24	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	2	
25	1034921	(10000000- 20000000)	Label, Logo, White/Black, 4.00l [Fast] (NLA - No Longer Available)	1	
▽	26	9003252	(10000000- 20000000)	Cover Kit, Head, Disc, Replmt [Ss5]	1
▲	27	1027068	(10000000- 20000000)	Insulation, Sound, Front	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, DISK 32 in / 800 mm



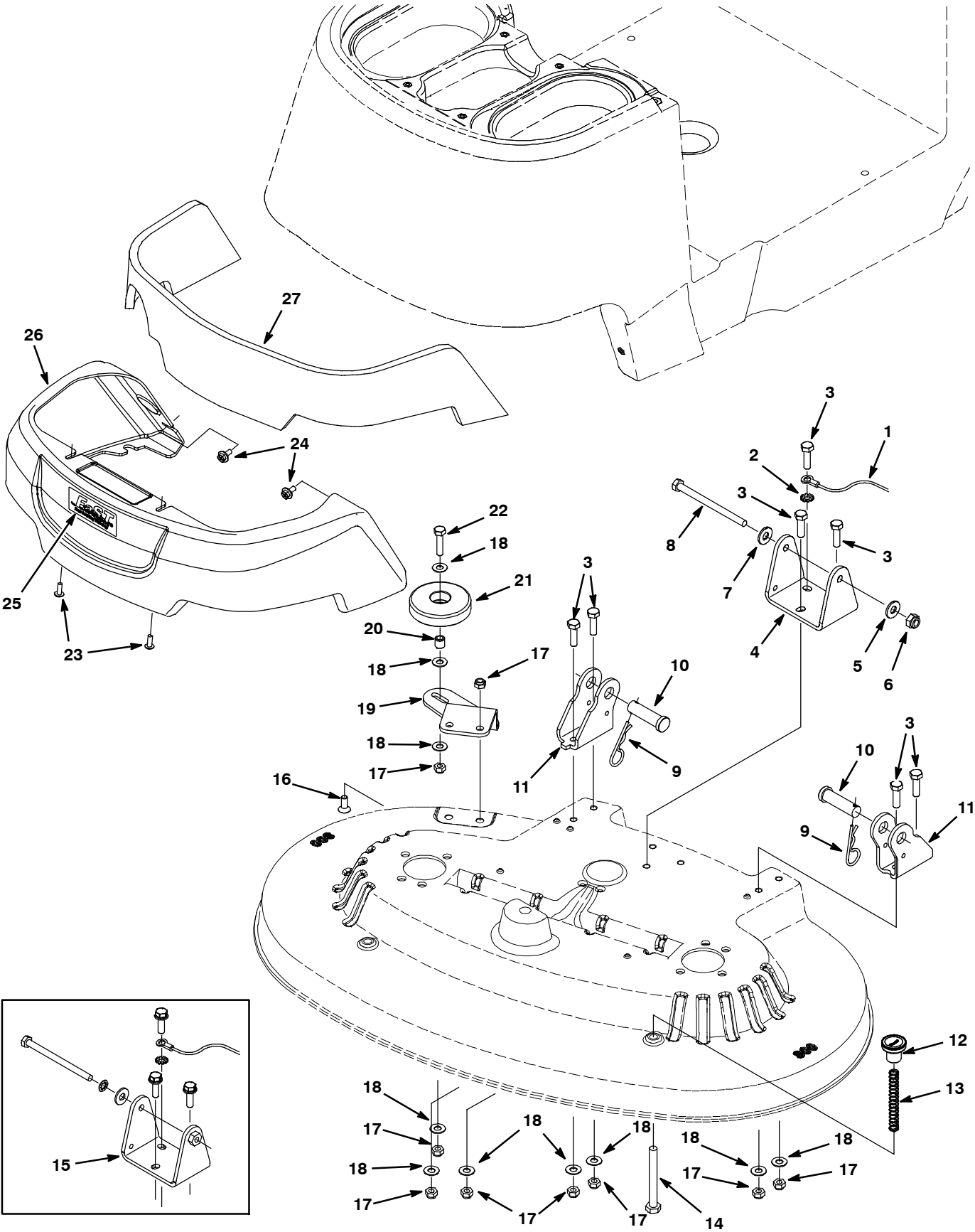
SCRUB HEAD GROUP, DISK 32 in / 800 mm

	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1023067	(10000000- 20000000)	Motor, Gearbox, 24vdc, 220rpm, 0.75hp	2
▲	2	1031775	(10000000- 20000000)	Brush, Brush- Motor, Afmkt	1
▲	3	1031681	(10000000- 20000000)	Harness, Connector, Brush- Motor- Us	1
	4	1024321	(10000000- 20000000)	Spacer, Rbr, Motor	2
	5	130773	(10000000- 20000000)	Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	7
	6	606885	(10000000- 20000000)	Hose 3/8idx5/8odx7.75 (611254)	2
	7	1022556	(10000000- 20000000)	Fitting, Plstc, Tee, Bm06/Bm06/Bm08	1
	8	1022424	(10000000- 20000000)	Stud, Adj, M16, Scrub Head	1
	9	763066	(10000000- 20000000)	Nut, Hex, Jam, M16 X 2.0	1
	10	578769	(10000000- 20000000)	Label, Moving Parts	2
	11	1023697	(10000000- 20000000)	Housing, Casting, Head, 80cm, Mach	1
	12	1025160	(10000000- 20000000)	Grommet, Isolator, 6b X 10od X 26.0fl	8
	13	386063	(10000000- 20000000)	Washer, Flat, 0.25b 1.12d .12, Ss	8
	14	1025853	(10000000- 20000000)	Screw, Set, M6 X 1.00 X 35, Ss, NI	8
	15	08712	(10000000- 20000000)	Nut, Hex, Lock, M6 X 1.0, Ss, NI	8
	16	1022549	(10000000- 20000000)	Spacer, Shaft, 17.15b, 25.0d, 3.0t	2
	17	1072658	(xxxxxxx- 20000000)	Bumper, Head, 80cm, Bristle Skirt (Includes Mounting Hardware & Retaining Strap)	1
	18	1014328	(10000000- 20000000)	Key, Sq, 05mm X 05mm, 25l	2
	19	1072628	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 25, Ss, Sems	2
	20	1017218	(10000000- 20000000)	Washer, Flat, 0.32b 1.00d .12, Ss	2
	21	1071637	(10617685- 20000000)	Hub, Drive, Brush, Disk, 17mmb	2
	21	1022550	(10000000- 10617684)	Hub, Drive, Brush, Disk, 17mm (Replaced by 1071637)	2
▽	22	1024941	(10000000- 10423042)	Bumper Assy, Skirt, Scrub Head, 80cm (Replaced by 1053618)	1
▲	23	1020234	(10000000- 10423042)	Screw, Hex, M4 X 0.7 X 10, Ss	4
▲	24	41578	(10000000- 10423042)	Washer, Flat, #06 Ss	4
▲	25	1023573	(10000000- 10423042)	Strap, Retaining, Skirt (Replaced by 1053618)	1
	26	1053618	(10423043- xxxxxxxx)	Bumper, Head, 80cm, Bristle Skirt (Replaced by 1072658)	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, DISK 32 in / 800 mm - CONT'D



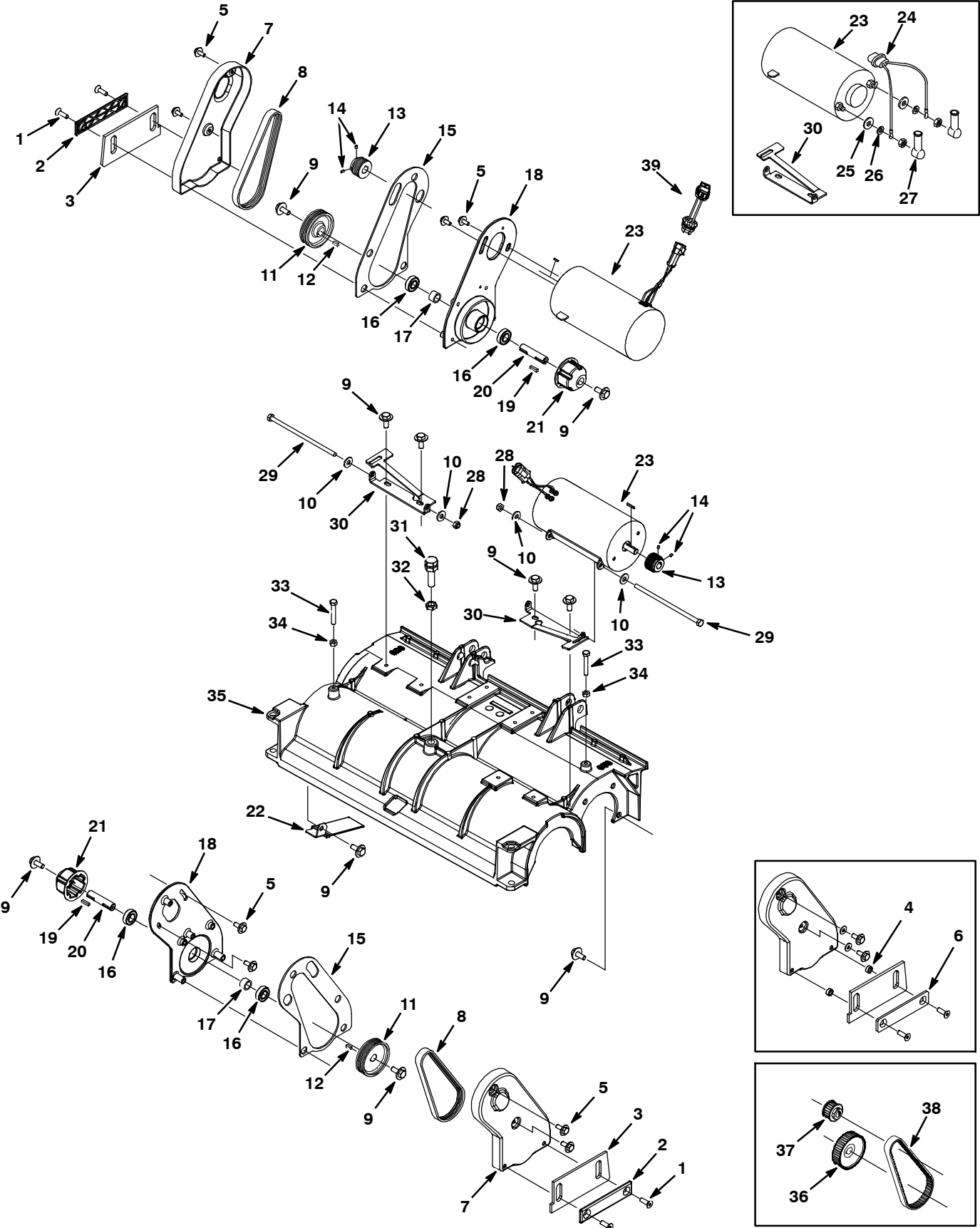
SCRUB HEAD GROUP, DISK 32 in / 800 mm - CONT'D

Ref.	Part No.	Serial Number	Description	Qty.	
1	1031370	(10000000- 20000000)	Wire, 12 Awg X 250mm	1	
2	43952	(10000000- 20000000)	Washer, Lock, Int, 0.31, Ss	1	
3	09011	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	7	
4	1036022	(10325114- 20000000)	Bracket, Mtg, Actuator, Scb Head	1	
5	01685	(10325114- 20000000)	Washer, Flat, 0.38b 0.88d .08, Ss	1	
6	08713	(10325114- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	1	
7	01685	(10000000- 20000000)	Washer, Flat, 0.31 Ss	1	
8	364441	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 110, Ss	1	
9	02942	(10000000- 20000000)	Pin, Hair Cotter, 0.62 D .120 Wir	2	
10	222210	(10000000- 20000000)	Pin, Clevis, 0.62 D X 2.12l	2	
11	1022227	(10000000- 20000000)	Bracket, Link, Scrubhead	2	
12	1024179	(10000000- 20000000)	Knob, Knurled, M10 Thread	2	
13	626081	(10000000- 20000000)	Spring, Cmpr, 12.1d, 0.9w, 90.0l	2	
14	09746	(10000000- 20000000)	Screw, Hex, M10 X 1.5 X 90, Ss	2	
15	N/A	(10000000- 10325113)	(Replaced By Items #4, 5, & 6)	1	
16	79246	(10000000- 20000000)	Screw, Flt, M8 X 1.25 X 20, Ss 18- 8	2	
17	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	10	
18	140027	(10000000- 20000000)	Washer, Flat, 0.35b 0.75d .04, Ss	10	
19	1023268	(10000000- 20000000)	Bracket, Roller, Wall, Scb Head, 70cm	1	
20	222460	(10000000- 20000000)	Sleeve, P/M, 0.496d 0.318b 0.50l 430ss	1	
21	1010560	(10000000- 20000000)	Wheel, Bmpr, 80d X 25w, Non- Marking	1	
22	09023	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 35, Ss, Fl	1	
23	608322	(10000000- 20000000)	Screw, Trs, M6 X 1.0 X 16, Phl, Ss	2	
24	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	2	
25	1034921	(10000000- 20000000)	Label, Logo, White/Black, 4.00l [Fast] (NLA - No Longer Available)	1	
▽	26	9003252	(10000000- 20000000)	Cover Kit, Head, Disc, Replmt [Ss5]	1
▲	27	1027068	(10000000- 20000000)	Insulation, Sound, Front	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, CYLINDRICAL 26 in / 650 mm



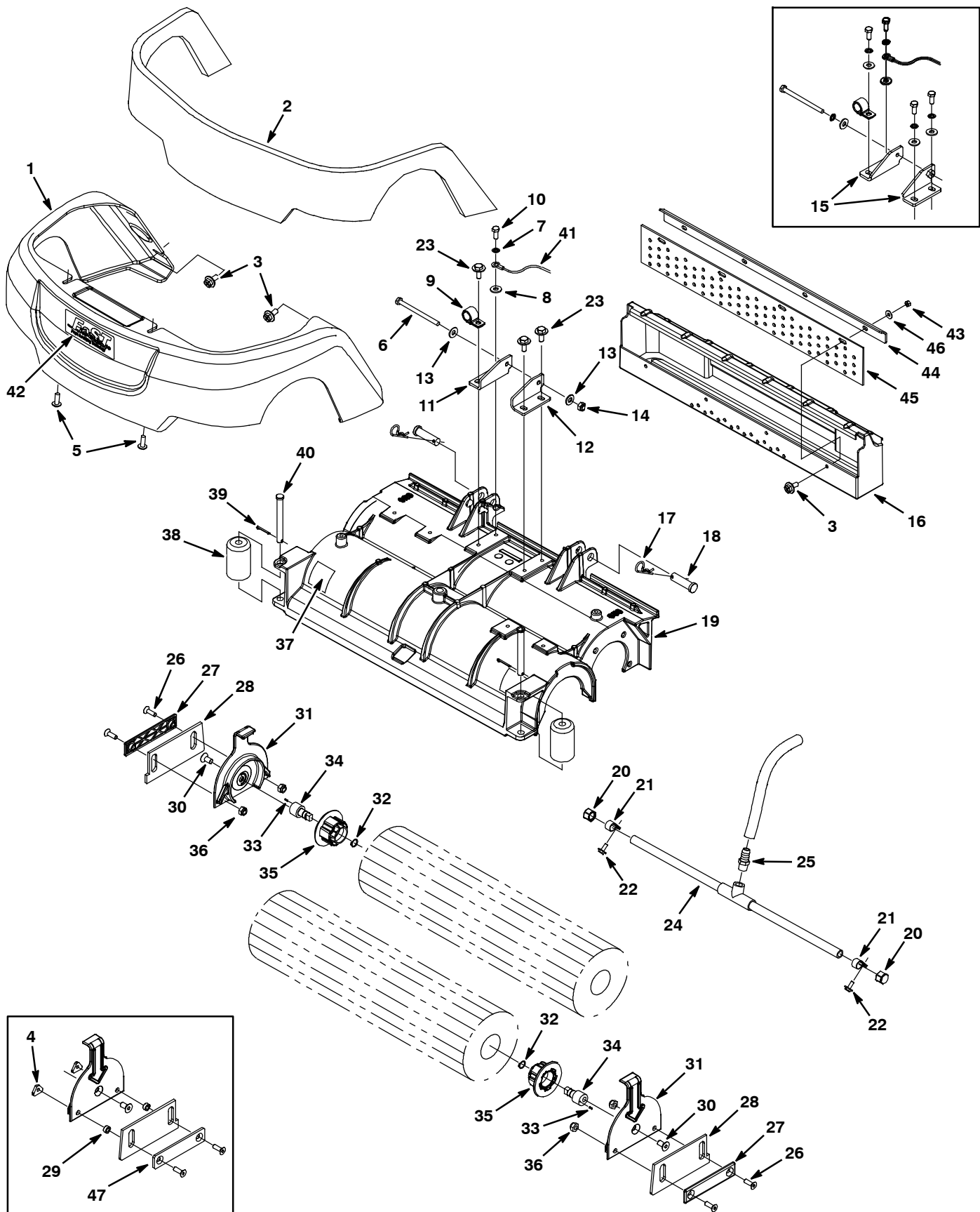
SCRUB HEAD GROUP, CYLINDRICAL 26 in / 650 mm

Ref.	Part No.	Serial Number	Description	Qty.	
1	222692	(10000000- 20000000)	Screw, Flt, M8 X1.25 X 25, Ss, 18- 8, NI	4	
2	1036245	(10353861- 20000000)	Retainer, Blade, Sqge, Side, Blk, Nyl	2	
3	1026292	(10000000- 20000000)	Skirt, Side, Scb, Cyl	2	
4	1027221	(10000000- 10353860)	Bushing, .325id .235h (Replaced by 1036245)	4	
5	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	8	
6	1026398	(10000000- 10353860)	Link, 0.18, 1.3w 05.7l, 2/0.4h, Cham (Replaced by 1036245)	2	
7	1022807	(10000000- 20000000)	Cover, Belt	2	
8	1035888	(10338658- 20000000)	Belt, Drive, 6Grv, 508l X 14w, [6Pj]	2	
9	1020341	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Sems, Ss	16	
10	01685	(10000000- 20000000)	Washer, Flat, 0.31 Ss	4	
11	1035173	(10338658- 20000000)	Sheave, 06Grv, 2.96pd, 0.59b, Alm [Pj]	2	
12	00961	(10000000- 20000000)	Key, Sq, 0.19 X 0.19, 0.50l	2	
13	1033528	(10338658- 20000000)	Sheave, 06Grv, 1.33pd, 0.50b, Alm [Pj]	2	
14	222818	(10000000- 20000000)	Screw, Set, #08- 32 X 0.25, NI	4	
15	1022401	(10000000- 20000000)	Gasket, Cover, Belt	2	
16	41360	(10000000- 20000000)	Bearing, Ball, 0.59b 1.26d 0.35w [2seal]	4	
17	1002077	(10000000- 20000000)	Spacer, 0.59b 0.81d 0.50l	2	
18	1021036	(10000000- 20000000)	Bracket, Motor, Machined	2	
19	00911	(10000000- 20000000)	Key, Sq, 0.19 X 0.19, 0.75l	2	
20	1021050	(10000000- 20000000)	Shaft, Drive	2	
21	378805	(10000000- 20000000)	Plug, Drive, Brush, Mach	2	
22	1029358	(10000000- 20000000)	Deflector, Water, Cyl Head	1	
▽ ▲	23	1042228	(10419662- 20000000)	Motor, Ele, 24vdc 1500rpm 0.75hp 23.0a	2
▲		1049739	(10419662- 20000000)	Brush Kit, Carbon, Motor, Replmt [4pcs]	2
▽	23	1050369	(10000000- 10419661)	Motor Kit, Cylrl, Replmt, F/604980 [T5]	2
▲		190152	(10000000- 10419661)	Brush, Carbon [Pk=4]	2
▲		605305	(10000000- 10419661)	Spring, Motor, F/ Carbon Brush	8
	24	606795	(10000000- 10419661)	Harness Motor Cyl- Brush	2
	25	140027	(10000000- 10419661)	Washer, Flat, 0.35b 0.75d .04, Ss	4
	26	43952	(10000000- 10419661)	Washer, Lock, Int, 0.31 Ss	6
	27	608964	(10000000- 10419661)	Boot, 90deg .27id 0.64id 1.79l, Blk	4
	28	08713	(10353861- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	2
	29	1025026	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 180, Ss	2
	30	1044386	(10000000- 20000000)	Bracket, Mounting, Motor	2
	31	1022424	(10000000- 20000000)	Stud, Adj, M16, Scrub Head	1
	32	763066	(10000000- 20000000)	Nut, Hex, Jam, M16 X 2.0	1
	33	578717	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 50, Ss	2
	34	07786	(10000000- 20000000)	Nut, Hex, Std, M8 X 1.25, Ss	2
	35	1022624	(10000000- 20000000)	Housing, Head, 65cm Cyl, Mach	1
	36	1024636	(10000000- 10338657)	Sprocket, 48t, 5p V2	2
	37	375195	(10000000- 10338657)	Sprocket, Timing, 22tooth, 0.50b, [Gt/2]	2
	38	377500	(10000000- 10338657)	Belt,Synchronous, 500l,15mm [05p,Plychn]	2
	39	1052895	(10419662- 20000000)	Harness, Adapter, Motor [T7/T5]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, CYLINDRICAL 26 in / 650 mm - CONT'D



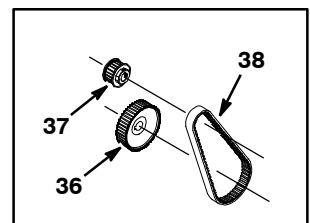
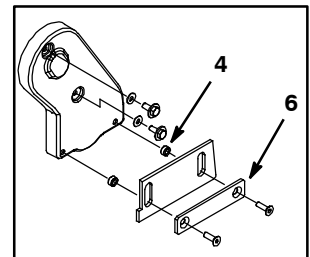
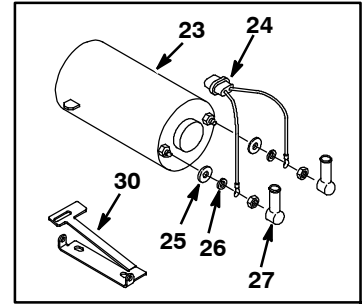
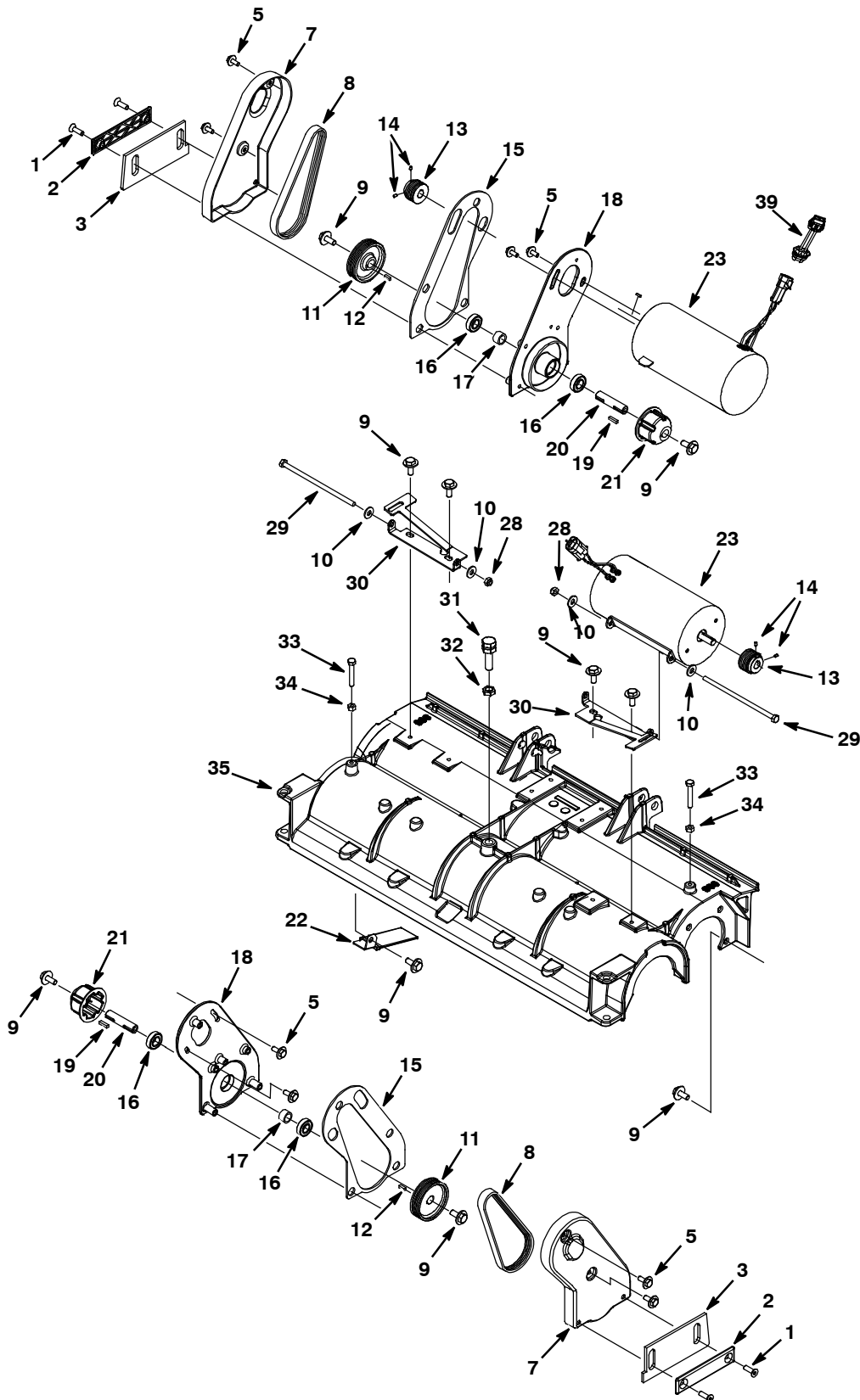
SCRUB HEAD GROUP, CYLINDRICAL 26 in / 650 mm - CONT'D

	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	9003253	(10000000- 20000000)	Cover Kit, Head, Cyl, Replmt [Ss5]	1
▲	2	1027069	(10000000- 20000000)	Insulation, Sound, Front, Cyl	1
	3	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	6
	4	607256	(10000000- 10353860)	Nut, Retainer, Spcl, M8, Ss	4
	5	608322	(10000000- 20000000)	Screw, Trs, M6 X 1.0 X 16, Phl, Ss	2
	6	364441	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 110, Ss	1
	7	43952	(10000000- 20000000)	Washer, Lock, Int, 0.31 Ss	1
	8	01685	(10000000- 20000000)	Washer, Flat, 0.31 Ss	1
	9	140314	(10000000- 20000000)	Clamp, Cable, Stl, 0.75d X 0.75w, 1h, Yl	1
	10	12273	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Ss, NI	1
	11	1036032	(10330480- 20000000)	Bracket, Lift, Head, Rh	1
	12	1036025	(10330480- 20000000)	Bracket, Lift, Head, Lh	1
	13	01685	(10000000- 20000000)	Washer, Flat, 0.31 Ss	1
	14	08713	(10330480- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	1
	15	N/A	(10000000- 10330479)	(Replaced By Items #11, 12, 13, & 14)	1
	16	1023465	(10000000- 20000000)	Hopper, 65cm, Rm- Blk	1
	17	02942	(10000000- 20000000)	Pin, Hair Cotter, 0.62 D .120 Wir	2
	18	222210	(10000000- 20000000)	Pin, Clevis, 0.62 D X 2.12l	2
	19	1022624	(10000000- 20000000)	Housing, Head, 65cm Cyl, Mach	1
	20	1025580	(10000000- 20000000)	Cap, Plstc, Pf12	2
	21	33584	(10000000- 20000000)	Clamp, Cable, Stl, 0.63d X 0.50w, 1h	2
	22	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	2
	23	1020341	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Sems, Ss	3
	24	1046049	(10000000- 20000000)	Tube Assy, Bar, Spray	1
	25	64743	(10000000- 20000000)	Fitting, Plstc, Str, Bm08/Pm06	1
	26	222692	(10000000- 20000000)	Screw, Flt, M8 X1.25 X 25, Ss, 18- 8, NI	4
	27	1036245	(10353861- 20000000)	Retainer, Blade, Sqge, Side, Blk, Nyl	2
	28	1026292	(10000000- 20000000)	Skirt, Side, Scb, Cyl	2
	29	1027221	(10000000- 10353860)	Bushing, .325id .235h (Replaced by 1036245)	4
▽		1057922	(10000000- 20000000)	Door Assy, Cyl Head, [7100]	2
▲	30	390996	(10000000- 20000000)	Screw, Flt, M10 X 1.5 X 20, 10.9, NI	1
▲	31	1044145	(10000000- 20000000)	Door, Brush	1
▲	32	01516	(10000000- 20000000)	Ring, Retaining, Ext, 0.59d, Basic	1
▲	33	222184	(10000000- 20000000)	Pin, Roll, .094 D X 0.25l, .094/.097	1
▲	34	222177	(10000000- 20000000)	Shaft, Idler Plug	1
▲	35	1057629	(10000000- 20000000)	Plug, Idler, Brush, [Sgl Brg]	1
	36	08713	(10353861- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	4
	37	578769	(10000000- 20000000)	Label, Moving Parts	2
	38	222178	(10000000- 20000000)	Roller, Pyu, 1.88d 0.53b 3.05l	2
	39	578421	(10000000- 20000000)	Pin, Cotter, .125d X 1.00l	2
	40	222196	(10000000- 20000000)	Pin, Clevis, 0.50 D X 4.25l	2
	41	1031370	(10000000- 20000000)	Wire, 12 Awg X 250mm	1
	42	1034921	(10000000- 20000000)	Label, Logo, White/Black, 4.00l [Fast] (NLA - No Longer Available)	1
	43	07785	(10000000- 20000000)	Nut, Hex, Std, M6 X 1.0, A2, Ss	4
	44	1023536	(10000000- 20000000)	Lip, Tray, Debris, Scrubhead, 65cm	1
	45	1025272	(10000000- 20000000)	Skirt, Tray, Debris, 65cm	1
	46	01684	(10000000- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	4
	47	1026398	(10000000- 10353860)	Link, 0.18, 1.3w 05.7l, 2/0.4h, Cham (Replaced by 1036245)	2

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, CYLINDRICAL 32 in / 800 mm



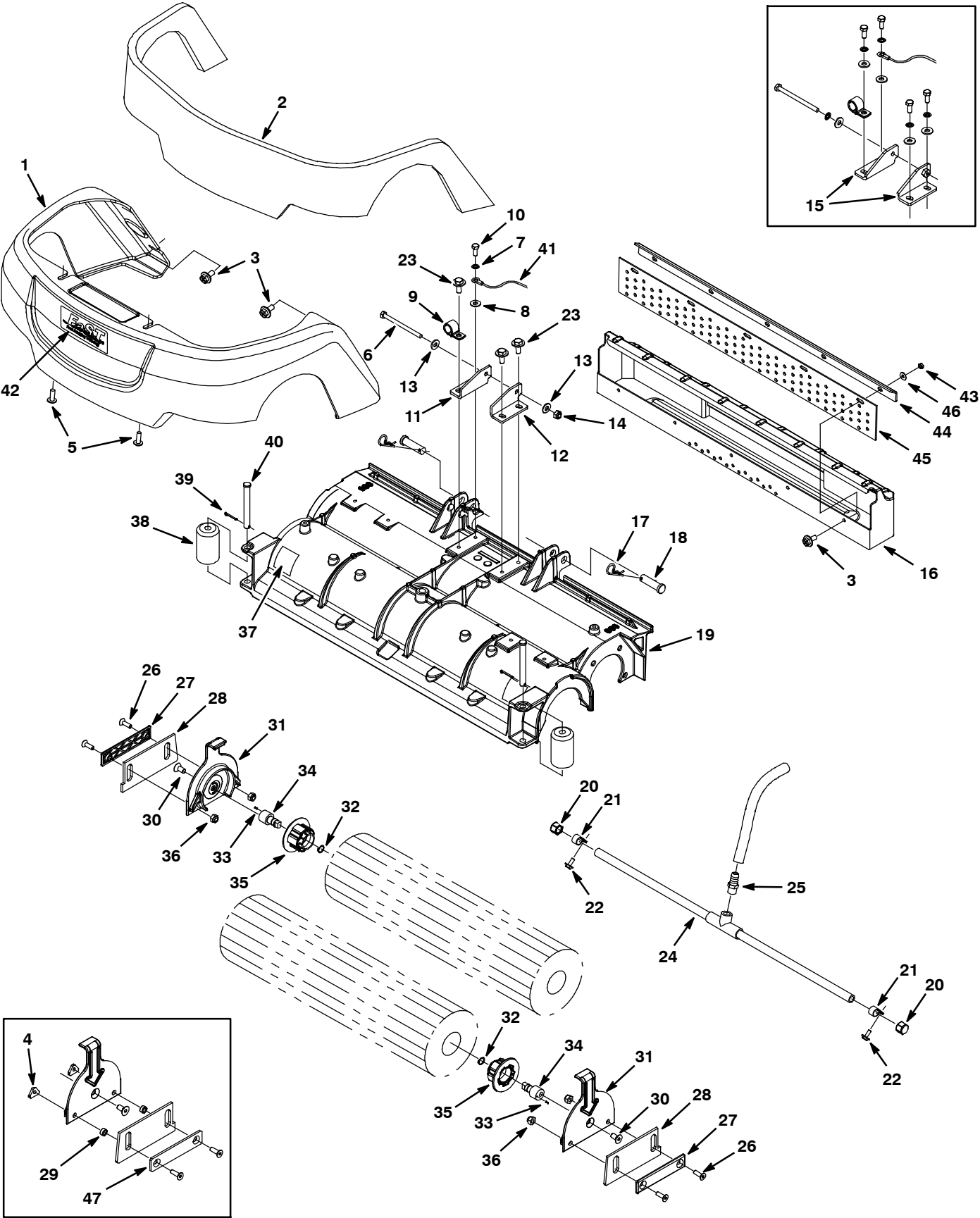
SCRUB HEAD GROUP, CYLINDRICAL 32 in / 800 mm

Ref.	Part No.	Serial Number	Description	Qty.	
1	222692	(10000000- 20000000)	Screw, Flt, M8 X1.25 X 25, Ss, 18- 8, NI	4	
2	1036245	(10353861- 20000000)	Retainer, Blade, Sqge, Side, Blk, Nyl	2	
3	1026292	(10000000- 20000000)	Skirt, Side, Scb, Cyl	2	
4	1027221	(10000000- 10353860)	Bushing, .325id .235h (Replaced by 1036245)	4	
5	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	8	
6	1026398	(10000000- 10353860)	Link, 0.18, 1.3w 05.7l, 2/0.4h, Cham (Replaced by 1036245)	2	
7	1022807	(10000000- 20000000)	Cover, Belt	2	
8	1035888	(10338658- 20000000)	Belt, Drive, 6Grv, 508l X 14w, [6Pj]	2	
9	1020341	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Sems, Ss	16	
10	01685	(10000000- 20000000)	Washer, Flat, 0.31 Ss	4	
11	1035173	(10338658- 20000000)	Sheave, 06Grv, 2.96pd, 0.59b, Alm [Pj]	2	
12	00961	(10000000- 20000000)	Key, Sq, 0.19 X 0.19, 0.50l	2	
13	1033528	(10338658- 20000000)	Sheave, 06Grv, 1.33pd, 0.50b, Alm [Pj]	2	
14	222818	(10000000- 20000000)	Screw, Set, #08- 32 X 0.25, NI	4	
15	1022401	(10000000- 20000000)	Gasket, Cover, Belt	2	
16	41360	(10000000- 20000000)	Bearing, Ball, 0.59b 1.26d 0.35w [2seal]	4	
17	1002077	(10000000- 20000000)	Spacer, 0.59b 0.81d 0.50l	2	
18	1021036	(10000000- 20000000)	Bracket, Motor, Machined	2	
19	00911	(10000000- 20000000)	Key, Sq, 0.19 X 0.19, 0.75l	2	
20	1021050	(10000000- 20000000)	Shaft, Drive	2	
21	378805	(10000000- 20000000)	Plug, Drive, Brush, Mach	2	
22	1029358	(10000000- 20000000)	Deflector, Water, Cyl Head	1	
▽	23	1042228	(10419662- 20000000)	Motor, Ele, 24vdc 1500rpm 0.75hp 23.0a	2
▲		1049739	(10419662- 20000000)	Brush Kit, Carbon, Motor, Replmt [4pcs]	2
▽	23	1050369	(10000000- 10419661)	Motor Kit, Cylrl, Replmt, F/604980 [T5]	2
▲		190152	(10000000- 10419661)	Brush, Carbon [Pk=4]	2
▲		605305	(10000000- 10419661)	Spring, Motor, F/ Carbon Brush	8
	24	606795	(10000000- 10419661)	Harness Motor Cyl- Brush	2
	25	140027	(10000000- 10419661)	Washer, Flat, 0.35b 0.75d .04, Ss	4
	26	43952	(10000000- 10419661)	Washer, Lock, Int, 0.31 Ss	6
	27	608964	(10000000- 10419661)	Boot, 90deg .27id 0.64id 1.79l, Blk	4
	28	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	2
	29	1025026	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 180, Ss	2
	30	1044386	(10000000- 20000000)	Bracket, Mounting, Motor	2
	31	1022424	(10000000- 20000000)	Stud, Adj, M16, Scrub Head	1
	32	763066	(10000000- 20000000)	Nut, Hex, Jam, M16 X 2.0	1
	33	578717	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 50, Ss	2
	34	07786	(10000000- 20000000)	Nut, Hex, Std, M8 X 1.25, Ss	2
	35	1025039	(10000000- 20000000)	Housing, Head, 80cm Cyl, Mach	1
	36	1024636	(10000000- 10338657)	Sprocket, 48t, 5p V2	2
	37	375195	(10000000- 10338657)	Sprocket, Timing, 22tooth, 0.50b, [Gt/2]	2
	38	377500	(10000000- 10338657)	Belt,Synchronous, 500l,15mm [05p,Plychn]	2
	39	1052895	(10409662- 20000000)	Harness, Adapter, Motor [T7/T5]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SCRUB HEAD GROUP, CYLINDRICAL 32 in / 800 mm - CONT'D



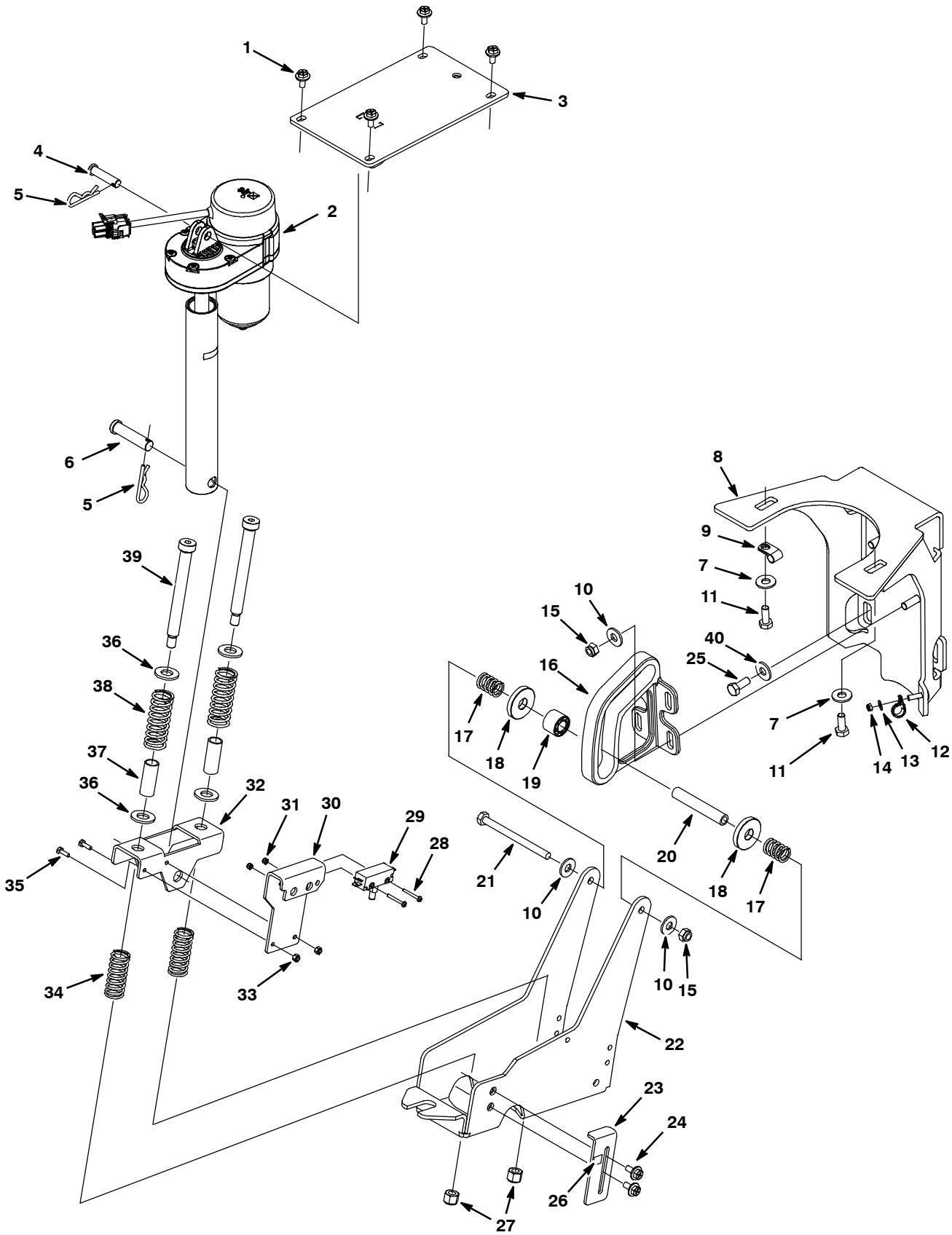
SCRUB HEAD GROUP, CYLINDRICAL 32 in / 800 mm - CONT'D

	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	9003253	(10000000- 20000000)	Cover Kit, Head, Cyl, Replmt [Ss5]	1
▲	2	1027069	(10000000- 20000000)	Insulation, Sound, Front, Cyl	1
	3	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	7
	4	607256	(10000000- 10353860)	Nut, Retainer, Spcl, M8, Ss	4
	5	608322	(10000000- 20000000)	Screw, Trs, M6 X 1.0 X 16, Phl, Ss	2
	6	364441	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 110, Ss	1
	7	43952	(10000000- 20000000)	Washer, Lock, Int, 0.31 Ss	1
	8	01685	(10000000- 20000000)	Washer, Flat, 0.31 Ss	1
	9	140314	(10000000- 20000000)	Clamp, Cable, Stl, 0.75d X 0.75w, 1h, Yl	1
	10	12273	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Ss, NI	1
	11	1036032	(10330480- 20000000)	Bracket, Lift, Head, Rh	1
	12	1036025	(10330480- 20000000)	Bracket, Lift, Head, Lh	1
	13	01685	(10330480- 20000000)	Washer, Flat, 0.38b 0.88d .08, Ss	1
	14	08713	(10330480- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	1
	15	N/A	(10000000- 10330479)	(Replaced By Items #11, 12, 13, & 14)	1
	16	1025127	(10000000- 20000000)	Hopper, 80cm [Rm]	1
	17	02942	(10000000- 20000000)	Pin, Hair Cotter, 0.62 D .120 Wir	2
	18	22210	(10000000- 20000000)	Pin, Clevis, 0.62 D X 2.12l	2
	19	1025039	(10000000- 20000000)	Housing, Head, 80cm Cyl, Mach	1
	20	1025580	(10000000- 20000000)	Cap, Plstc, Pf12	2
	21	33584	(10000000- 20000000)	Clamp, Cable, Stl, 0.63d X 0.50w, 1h	2
	22	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	2
	23	1020341	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Sems, Ss	3
	24	1025276	(10000000- 20000000)	Tube Assy, Bar, Spray [85cm]	1
	25	64743	(10000000- 20000000)	Fitting, Plstc, Str, Bm08/Pm06	1
	26	222692	(10000000- 20000000)	Screw, Flt, M8 X1.25 X 25, Ss, 18- 8, NI	4
	27	1036245	(10353861- 20000000)	Retainer, Blade, Sqge, Side, Blk, Nyl	2
	28	1026292	(10000000- 20000000)	Skirt, Side, Scb, Cyl	2
	29	1027221	(10000000- 10353860)	Bushing, .325id .235h (Replaced by 1036245)	4
▽		1057922	(10000000- 20000000)	Door Assy, Cyl Head, [7100]	2
▲	30	390996	(10000000- 20000000)	Screw, Flt, M10 X 1.5 X 20, 10.9, NI	1
▲	31	1044145	(10000000- 20000000)	Door, Brush	1
▲	32	01516	(10000000- 20000000)	Ring, Retaining, Ext, 0.59d, Basic	1
▲	33	222184	(10000000- 20000000)	Pin, Roll, .094 D X 0.25l, .094/.097	1
▲	34	222177	(10000000- 20000000)	Shaft, Idler Plug	1
▲	35	1057629	(10000000- 20000000)	Plug, Idler, Brush, [Sgl Brg]	1
	36	08713	(10353861- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	4
	37	578769	(10000000- 20000000)	Label, Moving Parts	2
	38	222178	(10000000- 20000000)	Roller, Pyu, 1.88d 0.53b 3.05l	2
	39	578421	(10000000- 20000000)	Pin, Cotter, .125d X 1.00l	2
	40	222196	(10000000- 20000000)	Pin, Clevis, 0.50 D X 4.25l	2
	41	1031370	(10000000- 20000000)	Wire, 12 Awg X 250mm	1
	42	1034921	(10000000- 20000000)	Label, Logo, White/Black, 4.00l [Fast] (NLA - No Longer Available)	1
	43	07785	(10000000- 20000000)	Nut, Hex, Std, M6 X 1.0, A2, Ss	5
	44	1025150	(10000000- 20000000)	Lip, Tray, Debris, Scrubhead, 80cm	1
	45	1025273	(10000000- 20000000)	Skirt, Tray, Debris, 80cm	1
	46	01684	(10000000- 20000000)	Washer, Flat, 0.25 Ss	5
	47	1026398	(10000000- 10353860)	Link, 0.18, 1.3w 05.7l, 2/0.4h, Cham (Replaced by 1036245)	2

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

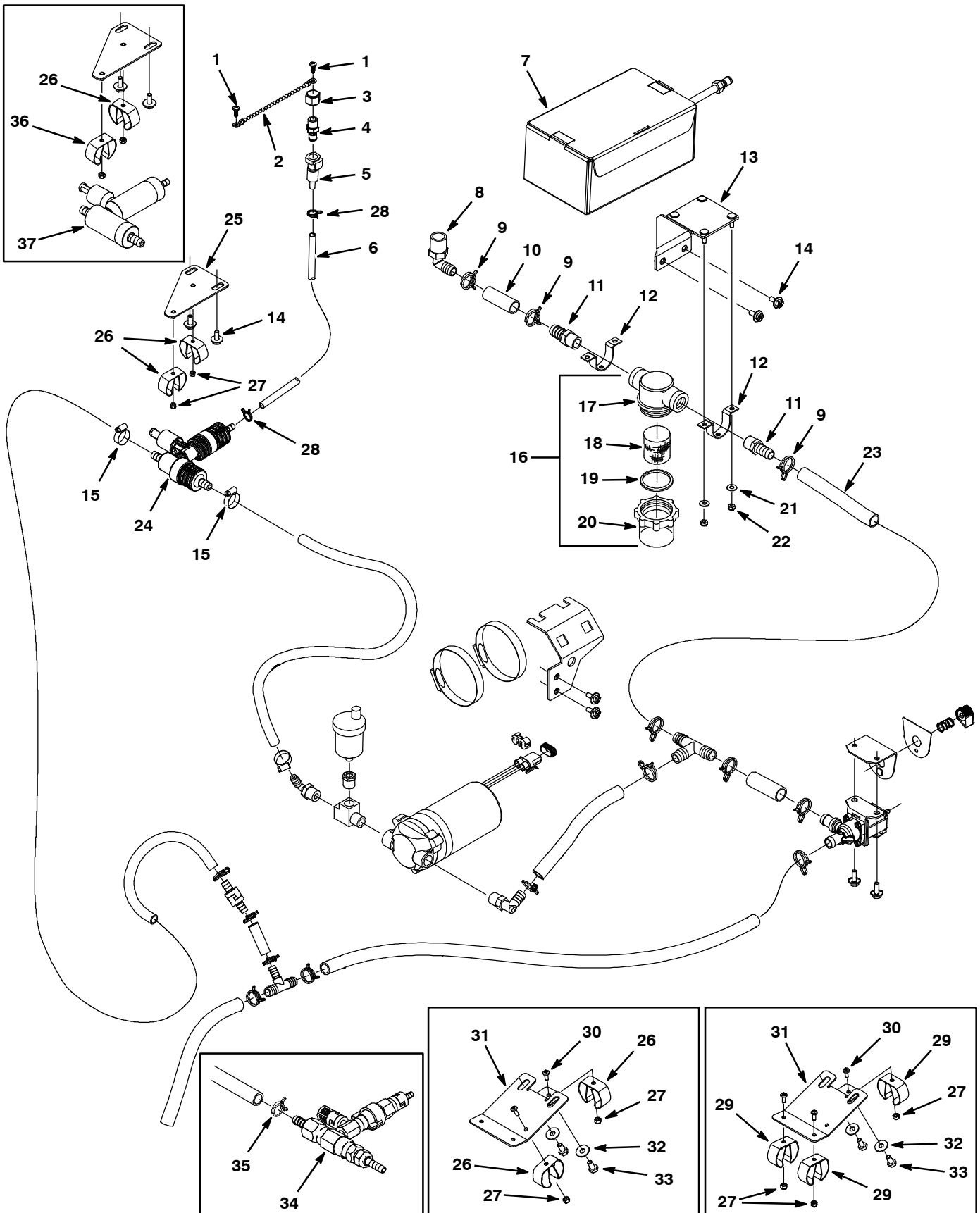
SCRUBHEAD LIFT GROUP



SCRUBHEAD LIFT GROUP

Ref.	Part No.	Serial Number	Description	Qty.
1	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	4
2	1050452	(10000000- 20000000)	Actuator, 24vdc, 6.0 Strk, 600 Lb	1
3	1022913	(10000000- 20000000)	Bracket Wldt, Actuator, Upper	1
4	29558	(10000000- 20000000)	Pin, Clevis, 0.37 D X 1.50l	1
5	140626	(10000000- 20000000)	Pin, Hair Cotter, 0.25 D .125 Wir	2
6	51534	(10000000- 20000000)	Pin, Clevis, 0.50 D X 2.00l	1
7	69461	(10000000- 20000000)	Washer, Flat, 0.38b 0.88d .12, Stl, Pl	2
8	1049367	(10000000- 20000000)	Bracket, Sppt, Guide, Rlr	1
9	40678	(10000000- 20000000)	Clamp, Cable, Stl, 0.44d X 0.62w, 1h	1
10	01685	(10000000- 20000000)	Washer, Flat, 0.31 Ss	6
11	12273	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 20, Ss, NI	2
12	33584	(10000000- 20000000)	Clamp, Cable, Stl, 0.63d X 0.50w, 1hole	1
13	01683	(10000000- 20000000)	Washer, Flat, #10 Ss	1
14	09739	(10000000- 20000000)	Nut, Hex, Lock, M5 X 0.8, NI, Ss	1
15	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	5
16	1023592	(10000000- 20000000)	Bracket, Guide, Rlr, Head Lift, Brz [T5]	1
17	607920	(10000000- 20000000)	Spring, Cmpr, 18.3d, 2.4w, 25.4l Mw	2
18	607568	(10000000- 20000000)	Washer, P/M, 1.500d, 0.500b 0.25l Bnz	2
19	1023658	(10000000- 20000000)	Roller, Linkage, Head Lift	1
20	1023653	(10000000- 20000000)	Shaft, Rlr, Head- Lift	1
21	386299	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 100, Ss	1
22	1024911	(10000000- 20000000)	Bracket, Roller, Scrubhead, Sheet Metal	1
23	1073623	(10679874- 20000000)	Bracket, Switch, Shut- Off	1
23	1025002	(10000000- 10679873)	Bracket, Switch, Shut- Off (Replaced by Kit 9010902)	1
24	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	2
25	12333	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 25, Ss, NI	2
26	1031984	(10000000- 20000000)	Label, Switch, Scrub Head	1
27	59156	(10000000- 20000000)	Nut, Hex, Lock, .38- 16, NI, Ss	2
28	06923	(10000000- 20000000)	Screw, Pan, M3 X 0.50 X 25, 4.8	2
29	1071996	(10679874- 20000000)	Switch, Push, Snap Action, 25a	1
29	606292	(10000000- 10679873)	Switch, Push, Actuator, 20a (Replaced by Kit 9010902)	1
30	1072283	(10679874- 20000000)	Bracket Wldt, Switch, Down Press	1
30	1025001	(10000000- 10679873)	Bracket, Switch, Down Press (Replaced by Kit 9010902)	1
31	579211	(10000000- 20000000)	Nut, Hex, Lock, M3 X 0.50, Ss	2
32	1023575	(10000000- 20000000)	Bracket, Spring, Down Press	1
33	33932	(10000000- 20000000)	Nut, Hex, Lock, M4 X 0.70, NI, Ss	2
34	63185	(10000000- 20000000)	Spring, Cmpr, .085od .09wir 2.0l	2
35	09206	(10000000- 20000000)	Screw, Hex, M4 X 0.7 X 12, 8.8	2
36	32486	(10000000- 20000000)	Washer, Flat, 0.50 Sae	4
37	1024969	(10000000- 20000000)	Sleeve, P/M, 0.629d 09.5	2
38	45261	(10000000- 20000000)	Spring, Cmpr, .097od .11wir 2.5l	2
39	45960	(10000000- 20000000)	Bolt, Shld, .50d X 4.25, .38- 16	2
40	1016331	(10000000- 20000000)	Washer, Flat, 0.34b 1.25d .11, Ss	2
N/S	130773	(10000000- 20000000)	Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	3

SOLUTION GROUP, FaST MODEL



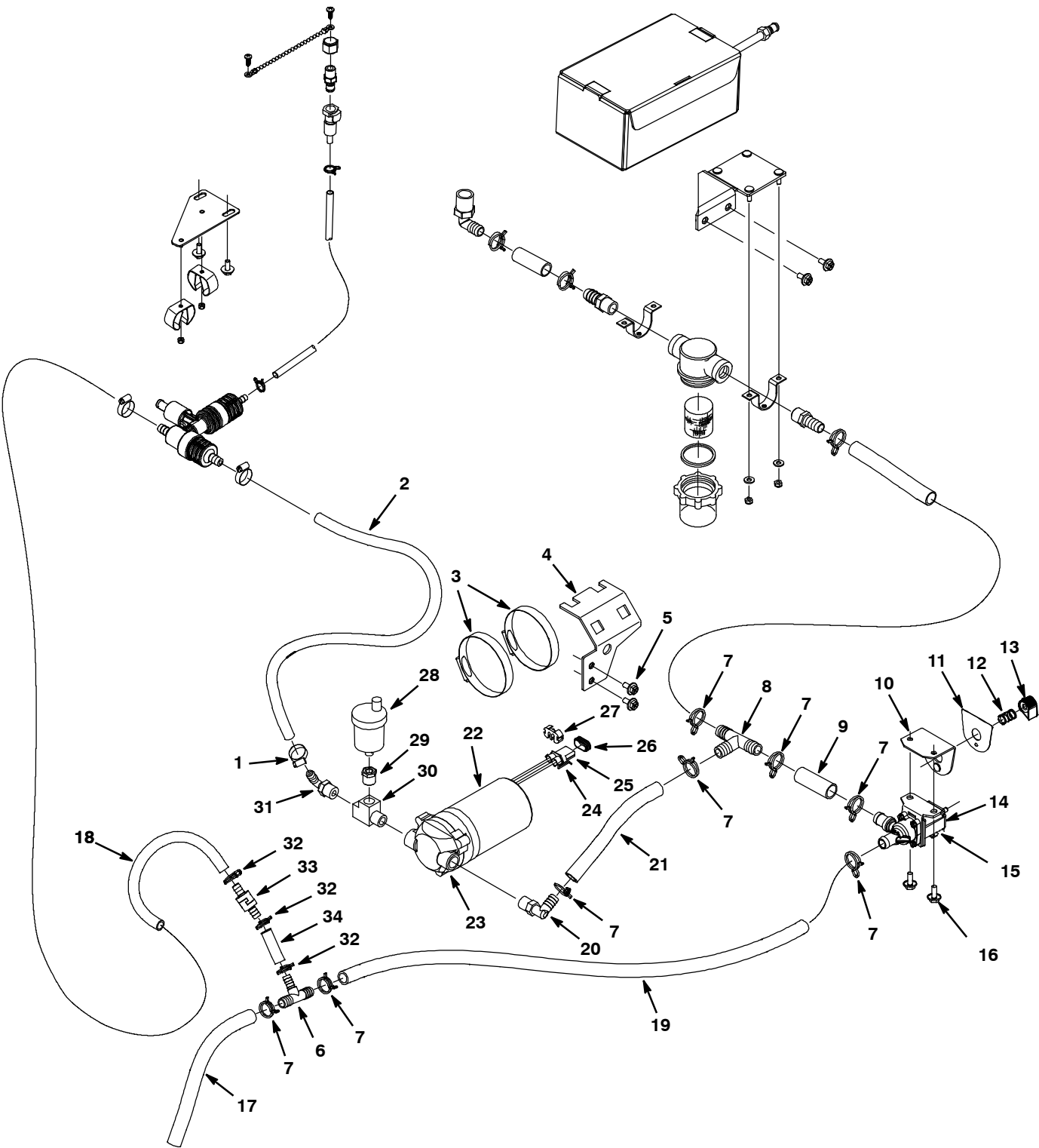
SOLUTION GROUP, FaST MODEL

Ref.	Part No.	Serial Number	Description	Qty.	
1	1018155	(10000000- 20000000)	Screw, Pan, M5 X 0.8 X16, Ss, Tcut	2	
2	621443	(10000000- 20000000)	Chain, Ball, #10 X 157l, Ss	1	
3	1005435	(10000000- 20000000)	Fitting, Plstc, Cap, Pf04, Pipe	1	
4	1006206	(10000000- 20000000)	Fitting, Plstc, Str, Pm04, Cplg,Mal[Nob]	1	
5	1006204	(10000000- 20000000)	Coupling, Fem, W/Valve, .25 Brb[Nobles]	1	
6	1006415	(10000000- 20000000)	Hose, Afmkt, Pvc, Clr 0.25id 3ft [C460126]	1	
7	1017019	(10000000- 20000000)	Detergent Pkg, 2 Liter, Sgl [Mp]	1	
7	1017025	(10000000- 20000000)	Detergent Pkg, 2 Liter, Sgl [Mpd]	1	
8	1013505	(10000000- 20000000)	Fitting, Plstc, E90, Bm08/Pm08, Nyl	1	
9	607776	(10000000- 20000000)	Clamp, Hose, Wire, .73 - .77, Silver	3	
10	069760725	(10000000- 20000000)	Hose Sol 1/2idx3.25" [611259]	1	
11	14884	(10000000- 20000000)	Fitting, Brs, Str, Bm08/Pm06 [Taped]	2	
12	605056	(10000000- 20000000)	Bracket, Mtg, Fltr	2	
13	1023543	(10000000- 20000000)	Bracket Wldt, Mtg, Filter	1	
14	1034731	(10369603- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	4	
15	54333	(10348538- 20000000)	Clamp, Hose, Wormdrive, 0.31- 0.88d, .31w	2	
▽	16	1005302	(10000000- 20000000)	Filter, In- Line, Pf06/Pf06, 80 Mesh	1
▲	17	613993	(10000000- 20000000)	Housing, Top, F/1005302	1
▲	18	1005304	(10000000- 20000000)	Screen, Fltr, 80 Mesh	1
▲	19	613992	(10000000- 20000000)	Gasket [Viton, F/1005302]	1
▲	20	613991	(10000000- 20000000)	Bowl, Clr, Short, F/1005302	1
	21	01683	(10000000- 20000000)	Washer, Flat, #10, Ss	4
	22	09739	(10000000- 20000000)	Nut, Hex, Lock, M5 X 0.80, NI, Ss	4
	23	613521	(10000000- 20000000)	Tube, 0.50id X 0.75od Vyl 1.00ft[611259]	1
	24	9008847	(10538043- 20000000)	Fast Kit, Injector[T5 60/65cm, Fast lii] (600 mm Disk & 650 mm Cyl Models) (See Breakdown)	1
	24	9008887	(10582617- 20000000)	Fast Kit, Injector[T5 70/80cm, Fast lii] (See Breakdown)	1
	25	1040982	(10369603- 20000000)	Plate, Mtg, Injector [T5/Ss5 Fast li+]	1
	26	573073	(10538043- 20000000)	Clip, Grip, Hose, 1.00- 1.50, Stl, PI (600 mm Disk & 650 mm Cyl Models)	2
	26	573073	(10347532- 20000000)	Clip, Grip, Hose, 1.00- 1.50, Stl, PI (700 mm/800 mm Disk & 800 mm Cyl Models)	1
	27	33932	(10347532- 20000000)	Nut, Hex, Lock, M4 X 0.7, NI, Ss	2
	27	33932	(10000000- 10347531)	Nut, Hex, Lock, M4 X 0.7, NI, Ss	3
	28	613735	(10000000- 20000000)	Clamp, Hose, Wir, .40 - .42, Yel	2
	29	1014295	(10000000- 10347531)	Clip, Spring, Holder, Blk Vyl Coated	3
	30	49697	(10347532- 10369602)	Screw, Pan, M4 X 0.7 X 10, Ss	2
	30	49697	(10000000- 10347531)	Screw, Pan, M4 X 0.7 X 10, Ss	3
	31	N/A	(10000000- 10369602)	(Replaced By Item #25)	1
	32	01684	(10000000- 10369602)	Washer, Flat, 0.25 Ss	2
	33	11635	(10000000- 20000000)	Screw, Hex, M6 X 1.0 X 12, Ss, NI	2
	34	9003810	(10000000- 10348537)	Fast Kit, Conv, Ci[T5 60/65cm, Fast li+] (600mm Disk & 650mm Cyl Models) (See Breakdown)	1
	34	9003812	(10000000- 10347531)	Fast Kit, Conv, Ci[T5 70/80cm, Fast li+] (See Breakdown) (700mm/800mm Disk & 800mm Cyl Models)	1
	35	607775	(10000000- 10348537)	Clamp, Hose, Wir, .63 - .66, Blk	1
	36	1014295	(10000000- 20000000)	Clip, Grip, Hose, 0.75- 1.12, Stl,Blk Vyl (700 mm/800 mm Disk & 800 mm Cyl Models)	1
	37	9003907	(10348538- 10538042)	Fast Kit, Injector[T5 60/65cm, Fast li+] (See Breakdown) (Replaced by 9008847)	1
	37	9003908	(10347532- 10582616)	Fast Kit, Injector[T5 70/80cm, Fast li+] (See Breakdown)	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SOLUTION GROUP, FaST MODEL - CONT'D



SOLUTION GROUP, FaST MODEL - CONT'D

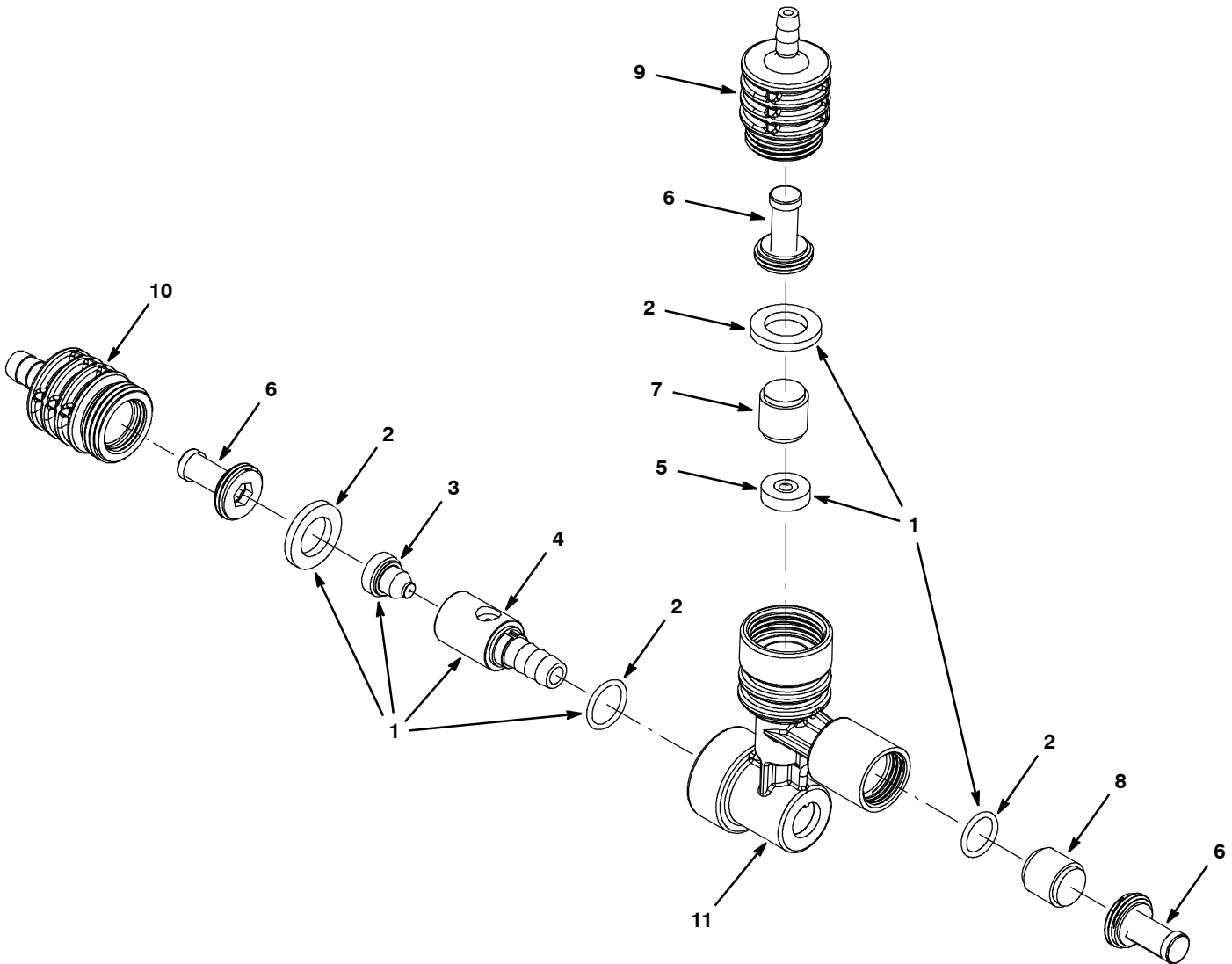
Ref.	Part No.	Serial Number	Description	Qty.	
1	54333	(10000000- 20000000)	Clamp, Hose, Wormdrive, 0.31- 0.88d, .31w	1	
2	9002542	(10000000- 20000000)	Hose, .38id X 0.60d Pvc 376720 Ft 3.5	1	
3	43555	(10000000- 20000000)	Clamp, Hose, Wormdrive, 2.50- 3.50d, .50w	2	
4	1023463	(10000000- 20000000)	Bracket, Mtg, Pump	1	
5	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	2	
6	630372	(10000000- 20000000)	Fitting, Plstc, Tee, Bm08/Bm06/Bm08	1	
7	607776	(10000000- 20000000)	Clamp, Hose, Wire, .73 - .77, Silver	8	
8	63245- 1	(10000000- 20000000)	Fitting, Plstc, Tee, Bm08/Bm08/Bm08	1	
9	613521	(10000000- 20000000)	Tubing 1/2idx3/4od Vnyl 611259 Ft 1.000	1	
10	1023537	(10000000- 20000000)	Bracket, Label, Soltn	1	
11	1024343	(10000000- 20000000)	Label, Soltn, Flow	1	
12	1017091	(10000000- 20000000)	Spring, Cmpr, 0.50d .036wir 00.8l	1	
13	1013442	(10000000- 20000000)	Knob, Valve, Indicator, Blk	1	
▽	14	1062385	(10000000- 20000000)	Valve, Water, Solenoid, 24vdc Bm10/Bm10	1
▲	15	614265	(10000000- 20000000)	Valve Kit, Water [Viton Diaphragm] (Repair Kit)	1
16	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	2	
17	613521	(10000000- 20000000)	Tube, 0.50id X 0.75od Vyl 1.00ft[611259]	1	
18	9004748	(10000000- 20000000)	Hose, Pyu, Clr, 0.38id 0.62od 42l	1	
19	613531	(10000000- 20000000)	Tubing 1/2idx3/4od Vinyl 611259 Ft 3.750	1	
20	1017532	(10000000- 20000000)	Fitting, Plstc, E90, Bm08/Pm06	1	
21	613521	(10000000- 20000000)	Tube, 0.50id X 0.75od Vyl 1.00ft[611259]	1	
▽	22	1014282	(10000000- 20000000)	Pump, Soltn, Ele, 24vdc, 60psi, Packard	1
▲	23	9001240	(10000000- 20000000)	Pump Kit, Head, Soltn	1
▲	24	78950	(10000000- 20000000)	Connector, Fem, 02cav, Mp280 Sealed	1
▲	25	78951	(10000000- 20000000)	Terminal, Fem, Mp280, Sealed, 18- 16ga	1
▲	26	10917	(10000000- 20000000)	Seal, Wire, 14/16ga [Wp / Mp280 Sealed]	1
▲	27	78952	(10000000- 20000000)	Lock, Secondary, 2cav, Mp280 Sealed	1
28	1017386	(10000000- 20000000)	Valve, Air Vent, Float Type	1	
29	24698	(10000000- 20000000)	Fitting, Brs, Str, Pf02/Pm06	1	
30	601483	(10000000- 20000000)	Fitting, Brs, Tee, Pm06/Pf06, Strt, T	1	
31	1005630	(10000000- 20000000)	Fitting, Plstc, E90, Bm06/Pm06, Nyl	1	
32	607775	(10348538- 20000000)	Clamp, Hose, Wir, .63 - .66, Blk	3	
32	607775	(10000000- 10348537)	Clamp, Hose, Wir, .63 - .66, Blk	4	
33	1015455	(10000000- 20000000)	Valve, Check, Bm06/Bm06, 5psi	1	
34	606362	(10000000- 20000000)	Hose 3/8idx5/8odx6.5 (611254)	1	

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

STANDARD PARTS

9008847 FAST INJECTOR ASSEMBLY BREAKDOWN (S/N 10538043-600 mm DISK & 650 mm CYLINDRICAL MODELS),

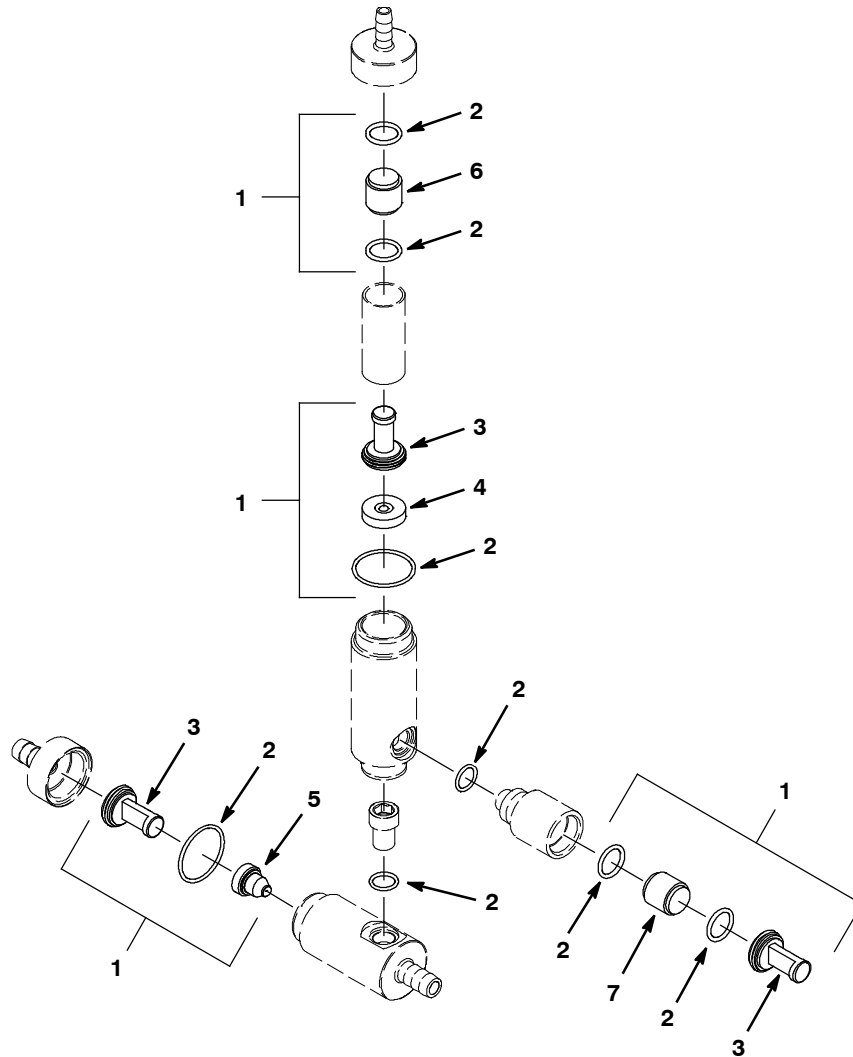


Ref.	Part No.	Serial Number	Description	Qty.
▽	9008847	(10538043-20000000)	Fast Kit, Injector[T5 60/65cm, Fast lii]	1
▲▽	1	9003811	(10538043-20000000) Fast Kit, Ci[Inj Reblid, T5 60/65cm, li+]	1
▲▲	2	9008848	(10538043-20000000) Fast Kit, Seal, Injector, Ci [Fast lii]	1
▲▲	3	1039989	(10348538-20000000) Plug, Orifice, 0.030, Ss [Fast li+]	1
▲▲	4	1059250	(10538043-20000000) Insert, Venturi, Medium, [Fast lii]	1
▲▲	5	1059869	(10538043-20000000) Plate Assy, Orifice, 0.007id, Red	1
▲	6	9003009	(10348538-20000000) Fast Kit, Ci, Injector Filters[Fast li+]	1
▲	7	1030444	(10348538-20000000) Valve, Check, 0002psi [Fast li+]	1
▲	8	1030441	(10348538-20000000) Valve, Check, 0005psi [Fast li+]	1
▲	9	1058126	(10538043-20000000) Housing, Fltr, Upper [Fast lii]	1
▲	10	1057811	(10538043-20000000) Housing, Fltr, Lower [Fast lii]	1
▲	11	1053564	(10538043-20000000) Housing, Body, Injector [Fast lii]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

9003907 FAST INJECTOR ASSEMBLY BREAKDOWN (S/N 10348538- 10538042)
600 mm DISK & 650 mm CYLINDRICAL MODELS



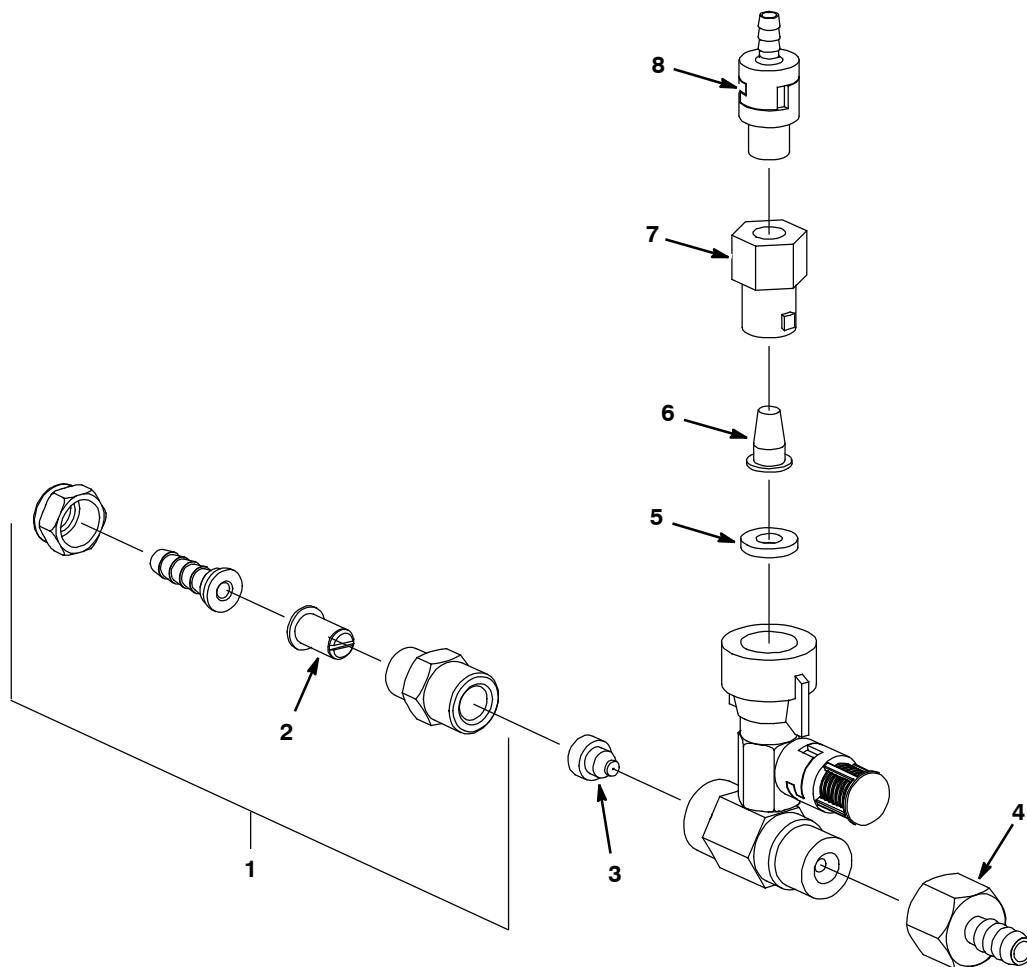
Ref.	Part No.	Serial Number	Description	Qty.
▽	9003907	(10348538- 10538042)	Fast Kit, Injector[T5 60/65cm, Fast li+]	1
▲ 1	9003811	(10348538- 10538042)	Fast Kit, Ci[Inj Rebl, T5 60/65cm, li+]	1
▲ 2	9003008	(10348538- 10538042)	Fast Kit, Ci, Injector Seals [Fast li+]	1
▲ 3	9003009	(10348538- 20000000)	Fast Kit, Ci, Injector Filters[Fast li+]	1
▲ 4	1032284	(10348538- 10538042)	Plate Assy, Orifice, 0.007id, Red	1
▲ 5	1039989	(10348538- 20000000)	Plug, Orifice, 0.030, Ss [Fast li+]	1
▲ 6	1030444	(10348538- 20000000)	Valve, Check, 0002psi [Fast li+]	1
▲ 7	1030441	(10348538- 20000000)	Valve, Check, 0005psi [Fast li+]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

STANDARD PARTS

9003810 FAST INJECTOR ASSEMBLY BREAKDOWN (S/N 10000000- 10348537) 600 mm DISK & 650 mm CYLINDRICAL MODELS



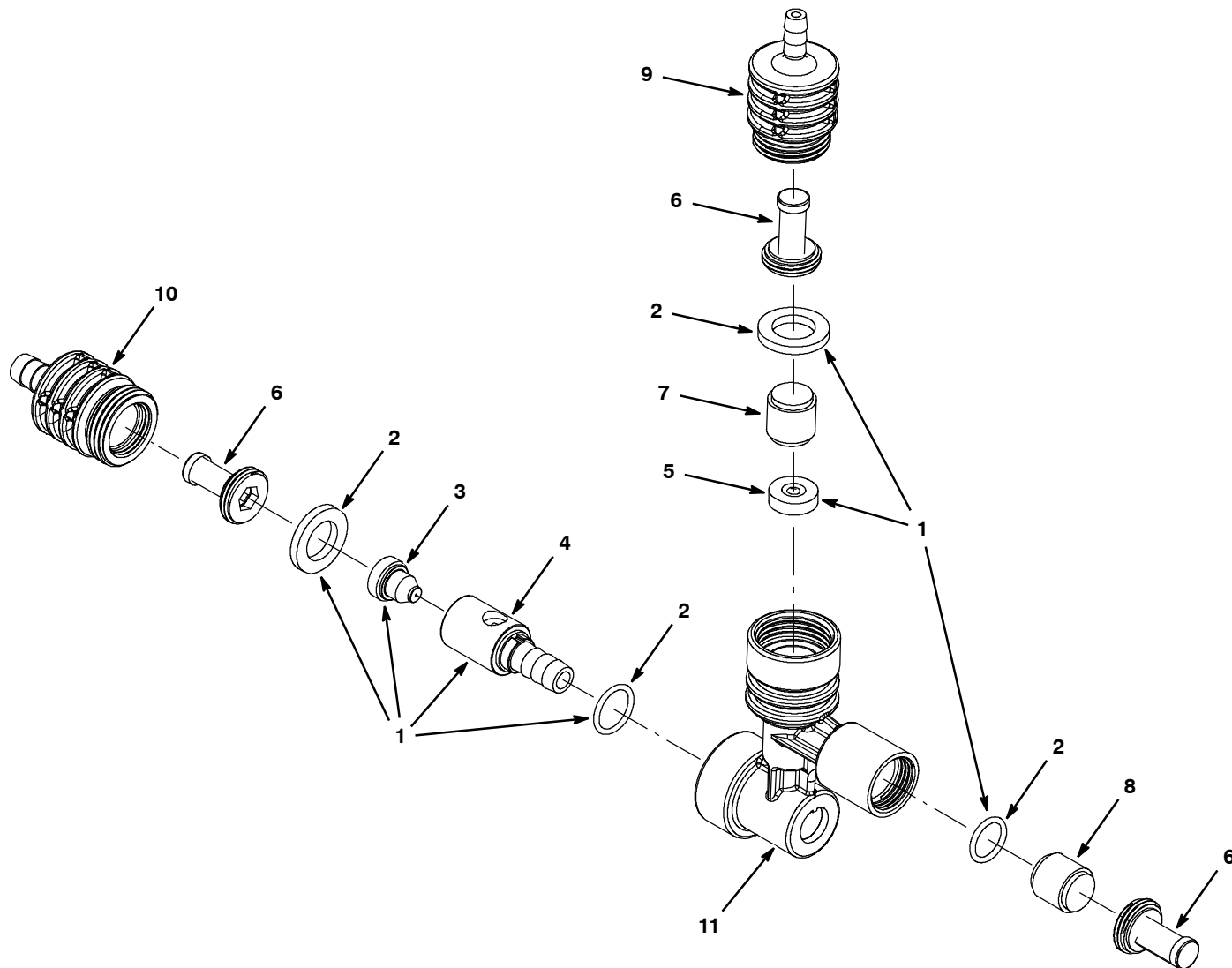
Ref.	Part No.	Serial Number	Description	Qty.
▽	9003810	(10000000- 10348537)	Fast Kit, Conv, Ci[T5 60/65cm, Fast li+]	1
▲	1	1013411 (10000000- 10348537)	Filter Assy, 050mesh	1
▲	2	1006447 (10000000- 10348537)	Vr, Filter, Screen, 050 Mesh .59d .8l Ss	1
	3	1039988 (10000000- 10348537)	Plug, Orifice, 0.027, Ss [Fast li+]	1
	4	1014276 (10000000- 10348537)	Fitting, Brs, Str, Bm06/Pf08	1
	5	1032284 (10000000- 10348537)	Plate Assy, Orifice, 0.007id, Red	1
	6	1029355 (10000000- 10348537)	Vr, Filter, Screen, 200 Mesh .59d .8l Ss	1
	7	1005507 (10000000- 10348537)	Fitting, Plstc, Body, Spray, Pf04	1
	8	1014254 (10000000- 10348537)	Valve, Check, 0002psi Bm04/Pm04	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

**9008887 FAST INJECTOR ASSEMBLY BREAKDOWN (S/N 10582617-
700 mm / 800 mm DISK & 800 mm CYLINDRICAL MODELS**

),

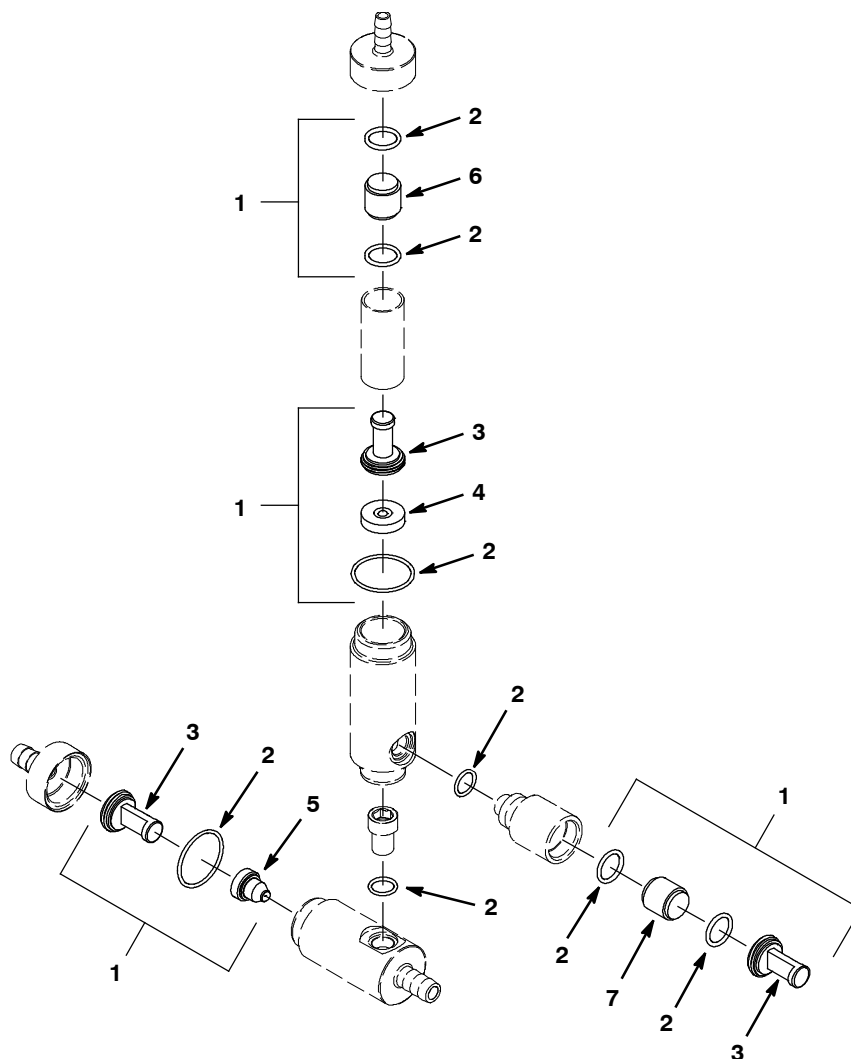


Ref.	Part No.	Serial Number	Description	Qty.
▽	9008887	(10582617- 20000000)	Fast Kit, Injector[T5 70/80cm, Fast lii]	1
▲▽	1	9008888	(10582617- 20000000) Fast Kit, Ci[Inj Rebl'd, T5 70/80cm, lii]	1
▲▲	2	9008848	(10582617- 20000000) Fast Kit, Seal, Injector, Ci [Fast lii]	1
▲▲	3	1039579	(10347532- 20000000) Plug, Orifice, 0.033, Ss [Fast li+]	1
▲▲	4	1059250	(10582617- 20000000) Insert, Venturi, Medium, [Fast lii]	1
▲▲	5	1059875	(10582617- 20000000) Plate Assy, Orifice, 0.0075id, Blue	1
▲	6	9003009	(10347532- 20000000) Fast Kit, Ci, Injector Filters[Fast li+]	1
▲	7	1030444	(10347532- 20000000) Valve, Check, 0002psi [Fast li+]	1
▲	8	1030441	(10347532- 20000000) Valve, Check, 0005psi [Fast li+]	1
▲	9	1058126	(10582617- 20000000) Housing, Fltr, Upper [Fast lii]	1
▲	10	1057811	(10582617- 20000000) Housing, Fltr, Lower [Fast lii]	1
▲	11	1053564	(10582617- 20000000) Housing, Body, Injector [Fast lii]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

9003908 FAST INJECTOR ASSEMBLY BREAKDOWN (S/N 10347532- 10582616) 700 mm / 800 mm DISK & 800 mm CYLINDRICAL MODELS

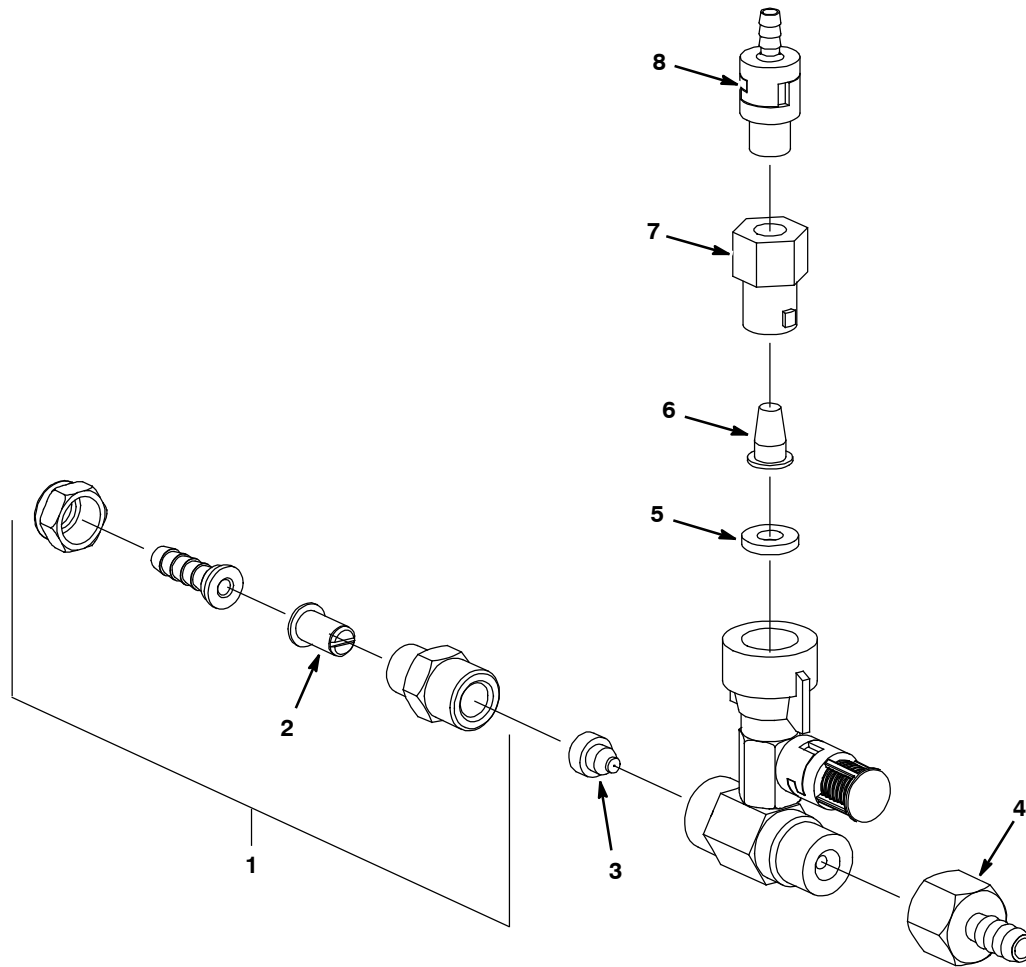


	Ref.	Part No.	Serial Number	Description	Qty.
▽		9003908	(10347532- 10582616)	Fast Kit, Injector[T5 70/80cm, Fast li+]	1
▲	1	9003813	(10347532- 10582616)	Fast Kit, Ci[lnj Reblid, T5 70/80cm, li+]	1
▲	2	9003008	(10347532- 10582616)	Fast Kit, Ci, Injector Seals [Fast li+]	1
▲	3	9003009	(10347532- 20000000)	Fast Kit, Ci, Injector Filters[Fast li+]	1
▲	4	1039978	(10347532- 10582616)	Plate Assy, Orifice, 0.0075id, Blu	1
▲	5	1039579	(10347532- 20000000)	Plug, Orifice, 0.033, Ss [Fast li+]	1
▲	6	1030444	(10347532- 20000000)	Valve, Check, 0002psi [Fast li+]	1
▲	7	1030441	(10347532- 20000000)	Valve, Check, 0005psi [Fast li+]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

**9003812 FAST INJECTOR ASSEMBLY BREAKDOWN (S/N 10000000- 10347531)
700 mm / 800 mm DISK & 800 mm CYLINDRICAL MODELS**

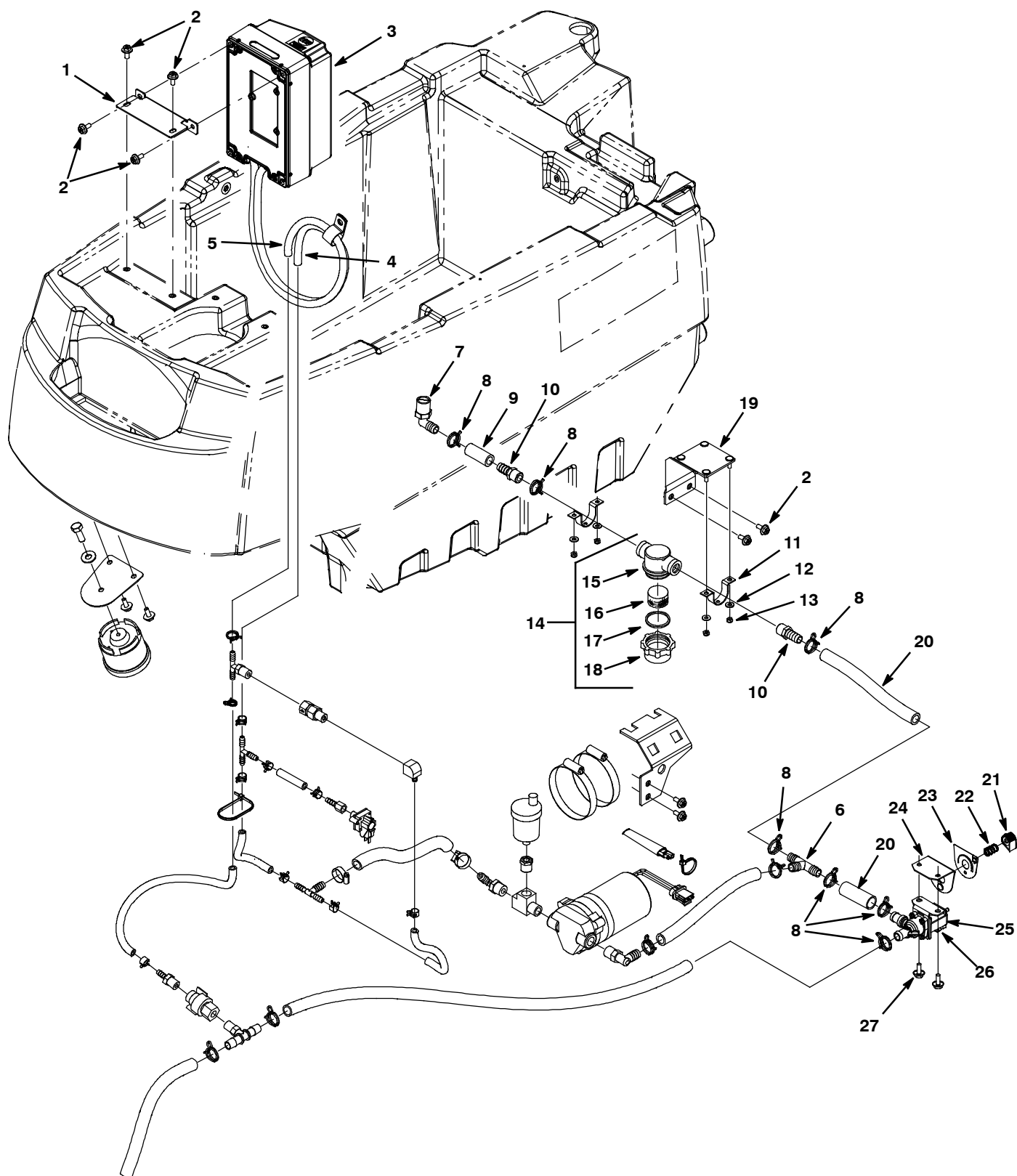


Ref.	Part No.	Serial Number	Description	Qty.
▽	9003812	(10000000- 10347531)	Fast Kit, Conv, Ci[T5 70/80cm, Fast li+]	1
▲	1	1013411 (10000000- 10347531)	Filter Assy, 050mesh	1
▲	2	1006447 (10000000- 10347531)	Vr, Filter, Screen, 050 Mesh .59d .8l Ss	1
	3	1039579 (10000000- 10347531)	Plug, Orifice, 0.033, Ss [Fast li+]	1
	4	1014276 (10000000- 10347531)	Fitting, Brs, Str, Bm06/Pf08	1
	5	1039978 (10000000- 10347531)	Plate Assy, Orifice, 0.0075id, Blu	1
	6	1029355 (10000000- 10347531)	Vr, Filter, Screen, 200 Mesh .59d .8l Ss	1
	7	1005507 (10000000- 10347531)	Fitting, Plstc, Body, Spray, Pf04	1
	8	1014254 (10000000- 10347531)	Valve, Check, 0002psi Bm04/Pm04	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SOLUTION GROUP, *ec-H2O* MODEL



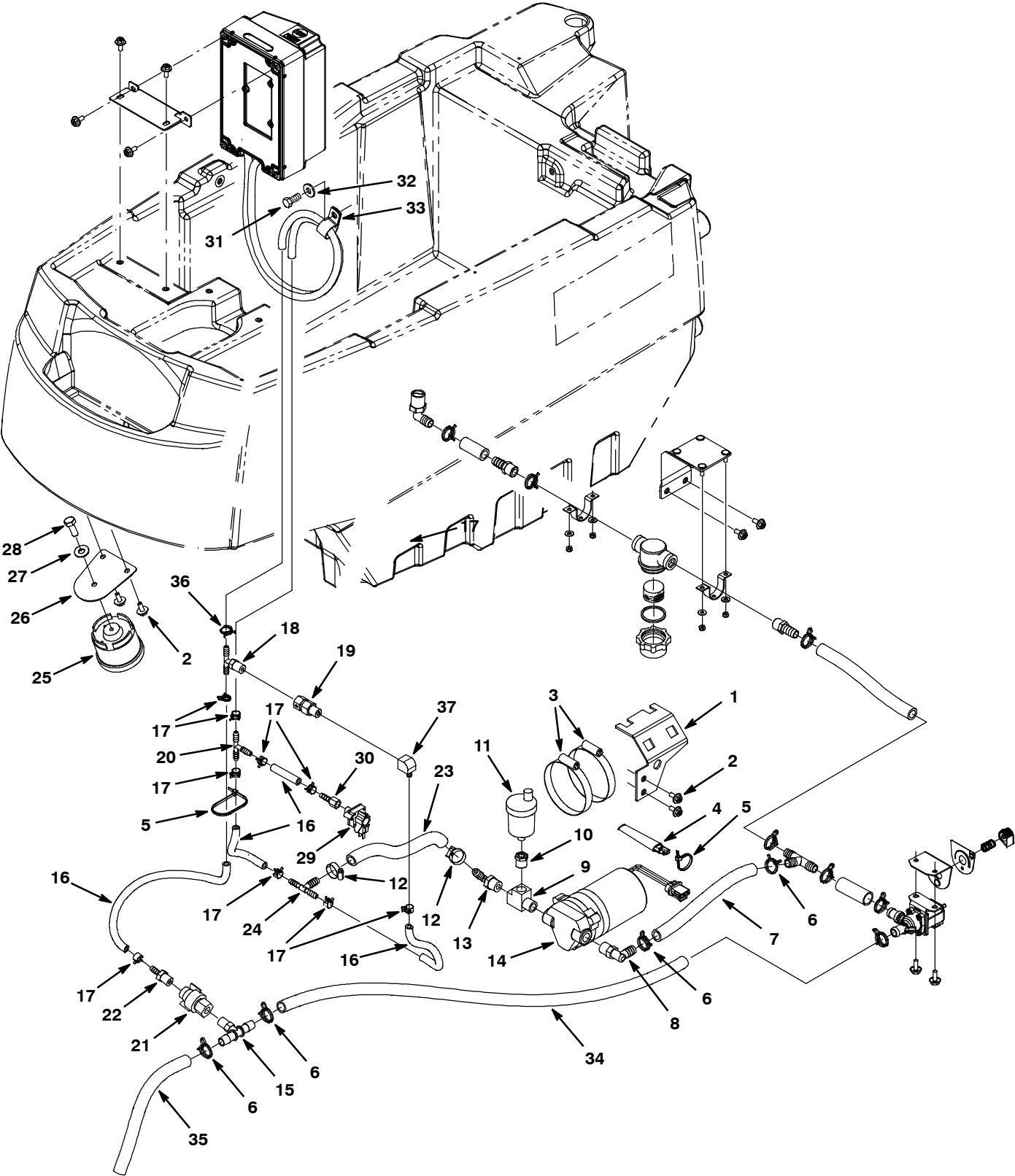
SOLUTION GROUP, *ec-H2O* MODEL

	Ref.	Part No.	Serial Number	Description	Qty.
▽ ▲ ▲	1	1045965	(10378380- 20000000)	Bracket, Mtg, Martini [No2][Ss5]	1
	2	1034731	(10378380- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	6
	3	9007970	(10448305- 20000000)	Module Kit, Replmt [Ec- H2o] (See Breakdown)	1
	4	578820000	(10378380- 20000000)	Hose, Pvc, Brd, 0.25id 0.44od 157.2l,Clr	1
	5	9004606	(10378380- 20000000)	Hose, Pvc, Clr, 0.25id 0.38od 064.0l	1
	6	63245- 1	(10000000- 20000000)	Fitting, Plstc, Tee, Bm08/Bm08/Bm08	1
	7	1013505	(10000000- 20000000)	Fitting, Plstc, E90, Bm08/Pm08, Nyl	1
	8	607776	(10000000- 20000000)	Clamp, Hose, Wir, .73 - .77, Silver	7
	9	069760725	(10000000- 20000000)	Hose, Pvc, Clr, 0.50id 0.75od 003.0l	1
	10	14884	(10000000- 20000000)	Fitting, Brs, Str, Bm08/Pm06 [Taped]	2
▽ ▲	11	605056	(10000000- 20000000)	Bracket, Mtg, Fltr	2
	12	01683	(10000000- 20000000)	Washer, Flat, 10, Ss	4
	13	09739	(10000000- 20000000)	Nut, Hex, Lock, M5 X 0.80, NI, Ss	4
	14	1005302	(10000000- 20000000)	Filter, In- Line, Pf06/Pf06 080mesh 02.6l	1
	15	613993	(10000000- 20000000)	Housing, Top, F/1005302	1
▲ ▲ ▲	16	1005304	(10000000- 20000000)	Screen, Fltr, 80 Mesh, Ss	1
	17	613992	(10000000- 20000000)	Gasket [Viton, F/1005302]	1
	18	613991	(10000000- 20000000)	Bowl, Clr, Short, F/1005302	1
	19	1023543	(10000000- 20000000)	Bracket Wldt, Mtg, Filter	1
	20	613521	(10000000- 20000000)	Hose, Pvc, Clr, 0.50id 0.75od 012.0l	1
▽ ▲	21	1013442	(10000000- 20000000)	Knob, Valve, Indicator, Blk	1
	22	1017091	(10000000- 20000000)	Spring, Cmpr, 0.50od .04wir 00.8l	1
	23	1024843	(10000000- 20000000)	Manual, Oprtr [2550, Ru]	1
	24	1023537	(10000000- 20000000)	Bracket, Label, Soltn	1
	25	1062385	(10000000- 20000000)	Valve, Water, Solenoid, 24vdc Bm10/Bm10	1
	26	614265	(10000000- 20000000)	Valve Kit, Water [Viton Diaphram] (Repair Kit)	1
	27	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	2

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SOLUTION GROUP, *ec-H2O* MODEL - CONT'D



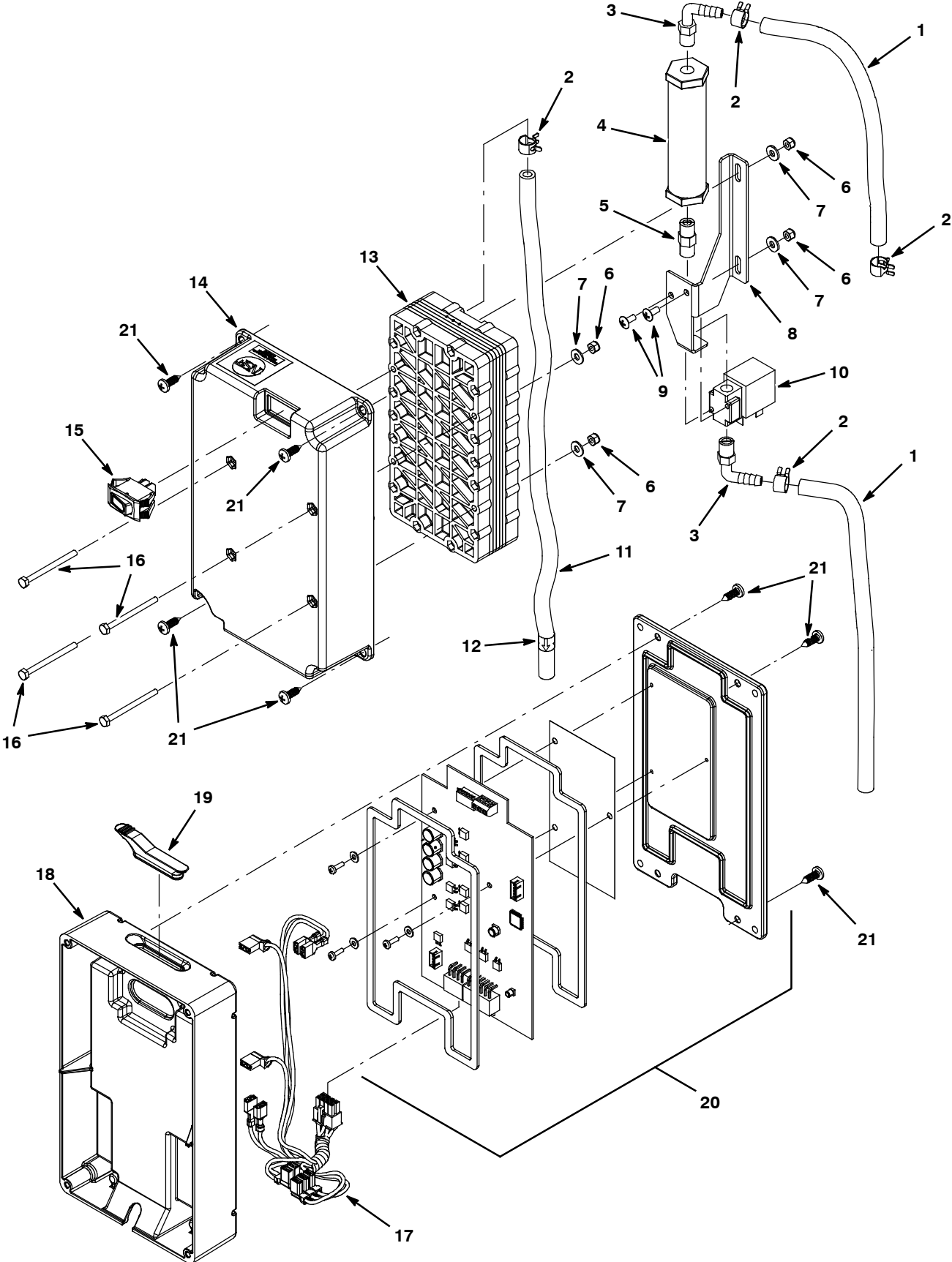
SOLUTION GROUP, *ec-H2O* MODEL - CONT'D

Ref.	Part No.	Serial Number	Description	Qty.	
1	1023463	(10000000- 20000000)	Bracket, Mtg, Pump [T5]	1	
2	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Sems, Ss	4	
3	43555	(10000000- 20000000)	Clamp, Hose, Wormdrive, 2.50- 3.50d, .50w	2	
4	1040868	(10378380- 20000000)	Capacitor, Plug [.01 Uf, 200v]	1	
5	130773	(10378380- 20000000)	Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	2	
6	607776	(10000000- 20000000)	Clamp, Hose, Wir, .73 - .77, Silver	4	
7	613521	(10378380- 20000000)	Hose, Pvc, Clr, 0.50id 0.75od 012.0l	1	
8	1017532	(10000000- 20000000)	Fitting, Plstc, E90, Bm08/Pm06	1	
9	601483	(10000000- 20000000)	Fitting, Brs, Tee, Pf06/Pf06/Pm06, Run	1	
10	24698	(10000000- 20000000)	Fitting, Brs, Str, Pf02/Pm06	1	
11	1017386	(10000000- 20000000)	Valve, Vent, Air, Float Type	1	
12	54333	(10000000- 20000000)	Clamp, Hose, Wormdrive, 0.31- 0.88d, .31w	2	
13	1005630	(10000000- 20000000)	Fitting, Plstc, E90, Bm06/Pm06, Nyl	1	
▽	14	1042495	(10378380- 20000000)	Pump, Soltn, Ele, 24vdc, 35psi	1
▲		9004759	(10378380- 20000000)	Pump Kit, Head, Soltn [Echo]	1
▲		78950	(10000000- 20000000)	Connector, Fem, 2cav, Mp280 Sealed	1
▲		78951	(10000000- 20000000)	Terminal, Fem, Mp280, Sealed, 18- 16ga	1
▲		10917	(10000000- 20000000)	Seal, Wire, 14/16ga [Wp / Mp280 Sealed]	1
▲		78952	(10000000- 20000000)	Lock, Secondary, 2cav, Mp280 Sealed	1
15	1010791	(10378380- 20000000)	Fitting, Plstc, Tee, Bm08/Bm08/Pm04, Br	1	
16	578820000	(10378380- 20000000)	Hose, Pvc, Brd, 0.25id 0.44od 157.2l,Clr	1	
17	603654	(10378380- 20000000)	Clamp, Hose, Ear, .44d [Ctb]	9	
18	607306	(10378380- 20000000)	Fitting, Plstc, Tee, Bm04/Bm04/Pm04, Br	1	
19	1044790	(10378380- 20000000)	Valve, Check, 0025psi Pm04/Pf04	1	
20	150713	(10378380- 20000000)	Fitting, Plstc, Tee, Bm04/Bm04/Bm04	1	
21	1043866	(10378380- 20000000)	Fitting Assy, Qd, Pf04	1	
22	50901	(10378380- 20000000)	Fitting, Plstc, Str, Bm04/Pm04	2	
23	1006400	(10378380- 20000000)	Hose, Afmkt, Pvc, Brd, 0.38id, 03ft, Clr	1	
24	1014441	(10378380- 20000000)	Fitting, Plstc, Tee, Bm04/Bm04/Bm06, Br	1	
25	1018505	(10455033- 20000000)	Horn, 12- 48vdc [88.5 Decibels]	1	
25	392937	(10378380- 10455032)	Horn, 12- 48vdc [94 Decibels]	1	
26	1044192	(10378380- 20000000)	Bracket, Mtg, Horn, Echo	1	
27	01685	(10378380- 20000000)	Washer, Flat, 0.38b 0.88d .08, Ss	1	
28	01697	(10378380- 20000000)	Screw, Hex, .25- 20 X 0.62, Ss	1	
29	1044414	(10378380- 20000000)	Switch, Press, 12psi, Pm02	1	
30	150520	(10378380- 20000000)	Fitting, Brs, Str, Bm04/Pf02	1	
31	12273	(10378380- 20000000)	Screw, Hex, M8 X 1.25 X 20, NI, Ss	1	
32	69461	(10378380- 20000000)	Washer, Flat, 0.38b 0.88d .12, Stl, Pl	1	
33	69234	(10378380- 20000000)	Clamp, Cable, Stl, 1.00d X 0.75w, 1hole	1	
34	613531	(10000000- 20000000)	Hose, Pvc, Clr, 0.50id 0.75od 045.0l	1	
35	613521	(10000000- 20000000)	Hose, Pvc, Clr, 0.50id 0.75od 012.0l	1	
36	613735	(10378380- 20000000)	Clamp, Hose, Wir, .40 - .42, Yel	1	
37	1028773	(10000000- 20000000)	Fitting, Brs, E90, Bm04/Pf04	1	

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

ec-H2O MODULE ASSEMBLY BREAKDOWN, 9007970 (S/N 10448305-)



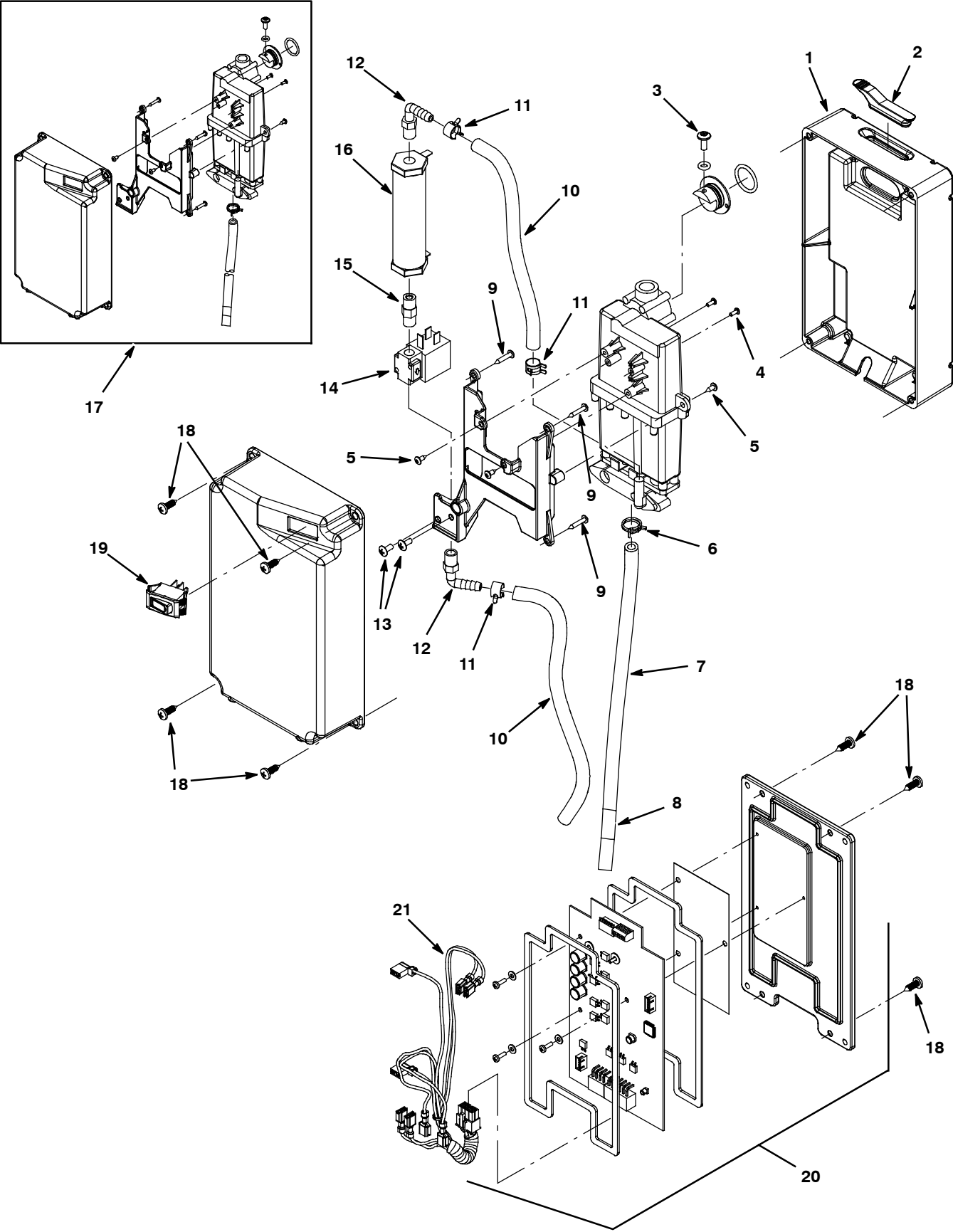
ec-H2O MODULE ASSEMBLY BREAKDOWN, 9007970 (S/N 10448305-)

Ref.	Part No.	Serial Number	Description	Qty.
▽	9007970	(10448305- 20000000)	Module Kit, Replmt [Ec- H2o]	1
▲▽	9006324	(10448305- 20000000)	Ec- H2o Kit [Module B, Plumbing]	1
▲▲	1 578820000	(10378380- 20000000)	Hose, Pvc, Brd, 0.25id 0.44od 157.2l,Clr	1
▲▲	2 603654	(10378380- 20000000)	Clamp, Hose, Ear, .44d [Ctb]	4
▲▲	3 1037595	(10378380- 20000000)	Fitting, Plstc, E90, Bm04/Pm02, Nyl	2
▲▲	4 1062006	(10448305- 20000000)	Electrode, Cylindrical	1
▲▲	5 1045030	(10378380- 20000000)	Fitting, Brs, Str, Pm02/Pm02	1
▲▲	6 33932	(10448305- 20000000)	Nut, Hex, Lock, M4 X 0.70, NI, Ss	4
▲▲	7 41579	(10448305- 20000000)	Washer, Flat, 08, Ss	4
▲▲	8 1048490	(10448305- 20000000)	Bracket, Valve	1
▲▲	9 140801	(10378380- 20000000)	Screw, Trs, Phl, 08- 32 X 0.38, Ss	2
▲▲	10 1013236	(10378380- 20000000)	Valve, Shutoff, Ele, 24vdc	1
▲▲	11 9006574	(10448305- 20000000)	Hose, Pvc, Brd, 0.25id 0.45od, 65l, Clr	1
▲▲	12 1049637	(10378380- 20000000)	Label, Direction [Ec- H2o]	1
▲▲	13 1057637	(10448305- 20000000)	Electrode, 5 Plate, High Flow	1
▲▲	14 1051519	(10448305- 20000000)	Housing, Upper, Module, High Flow	1
▲▲	15 1044393	(10378380- 20000000)	Switch, Rocker, Spst, Mom,	1
▲▲	16 32509	(10448305- 20000000)	Screw, Hex, M4 X 0.70 X 50, Ss	4
▲▲	17 1049489	(10448305- 20000000)	Harness, Main, Controller [Ec- H2o, P3]	1
▲	18 1037032	(10378380- 20000000)	Housing, Bottom	1
▲	19 1054776	(10378380- 20000000)	Grommet, Blind	1
▲	20 9007969	(10448305- 20000000)	Controller Kit, Replmt [Ec- H2o]	1
▲	21 1018155	(10378380- 20000000)	Screw, Pan, Phl, M5 X 0.80 X 16, Tcut,Ss	8

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

ec-H2O MODULE ASSEMBLY BREAKDOWN, 9006161 (S/N 10378380- 10448304)



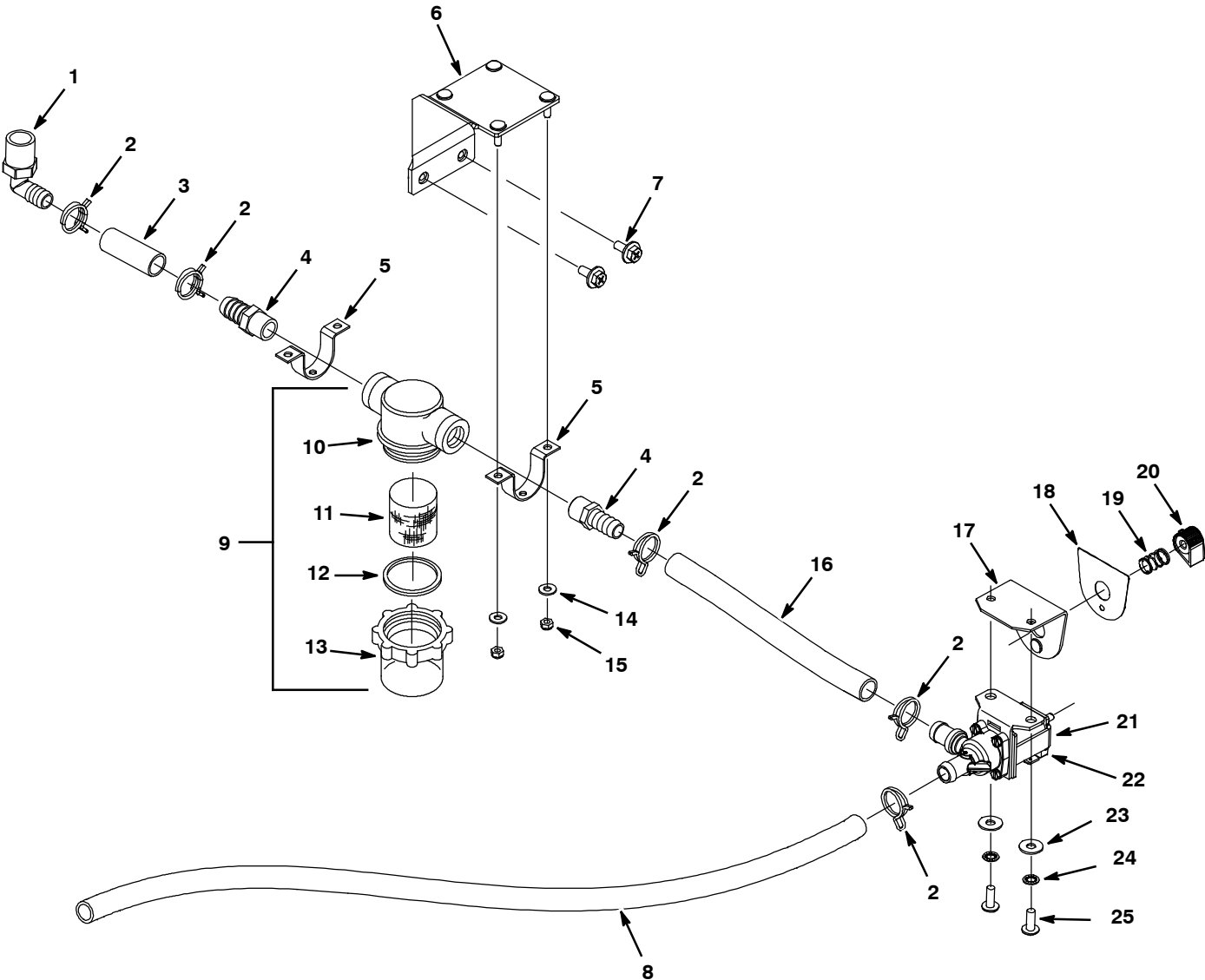
ec-H2O MODULE ASSEMBLY BREAKDOWN, 9006161 (S/N 10378380- 10448304)

Ref.	Part No.	Serial Number	Description	Qty.
▽	9006161	(10378380- 10448304)	Module Kit, Replmt [Ec- H2o]	1
▲	1 1037032	(10378380- 20000000)	Housing, Bottom	1
▲	2 1054776	(10378380- 20000000)	Grommet, Blind	1
▲	3 609062	(10378380- 10448304)	Screw, Trs, Phl, 08- 32 X 0.38, Ss	1
▲	4 578860	(10378380- 10448304)	Screw, Pan, Phl, 04- 40 X 0.31, Pl	2
▲	5 3701.6	(10378380- 10448304)	Screw, Pan, Phl, 06- 32 X 0.38, Shtmtl,Ss	4
▲	6 613735	(10378380- 20000000)	Clamp, Hose, Wir, .40 - .42, Yel	1
▲	7 9004606	(10378380- 10448304)	Hose, Pvc, Brd, .25id .45od 46l, Clr	1
▲	8 1049637	(10378380- 20000000)	Label, Direction [Ec- H2o]	1
▲	9 140826	(10378380- 10448304)	Screw, Pan, 06- 32 X 0.75, Fmg/Ab, Ss	4
▲	10 578820000	(10378380- 20000000)	Hose, Pvc, Brd, 0.25id 0.44od 157.2l,Clr	1
▲	11 603654	(10378380- 20000000)	Clamp, Hose, Ear, .44d [Ctb]	4
▲	12 1037595	(10378380- 20000000)	Fitting, Plstc, E90, Bm04/Pm02, Nyl	2
▲	13 140801	(10378380- 20000000)	Screw, Trs, Phl, 08- 32 X 0.38, Ss	2
▲	14 1013236	(10378380- 20000000)	Valve, Shutoff, Ele, 24vdc	1
▲	15 1045030	(10378380- 20000000)	Fitting, Brs, Str, Pm02/Pm02	1
▲	16 1038159	(10378380- 20000000)	Electrode, Cylindrical	1
▲	17 N/A	(10378380- 10448304)	Part Not Sold Separately - Order E- Cell Upgrade Kit P/N 9006324	1
▲	18 1018155	(10378380- 20000000)	Screw, Pan, Phl, M5 X 0.80 X 16, Tcut,Ss	8
▲	19 1044393	(10378380- 20000000)	Switch, Rocker, Spst, Mom,	1
▲	20 9006159	(10378380- 10448304)	Controller Kit, Replmt [Ec- H2o]	1
▲	21 1044399	(10378380- 10448304)	Harness, Main, Controller [Ec- H2o, P3]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SOLUTION GROUP, STANDARD MODEL



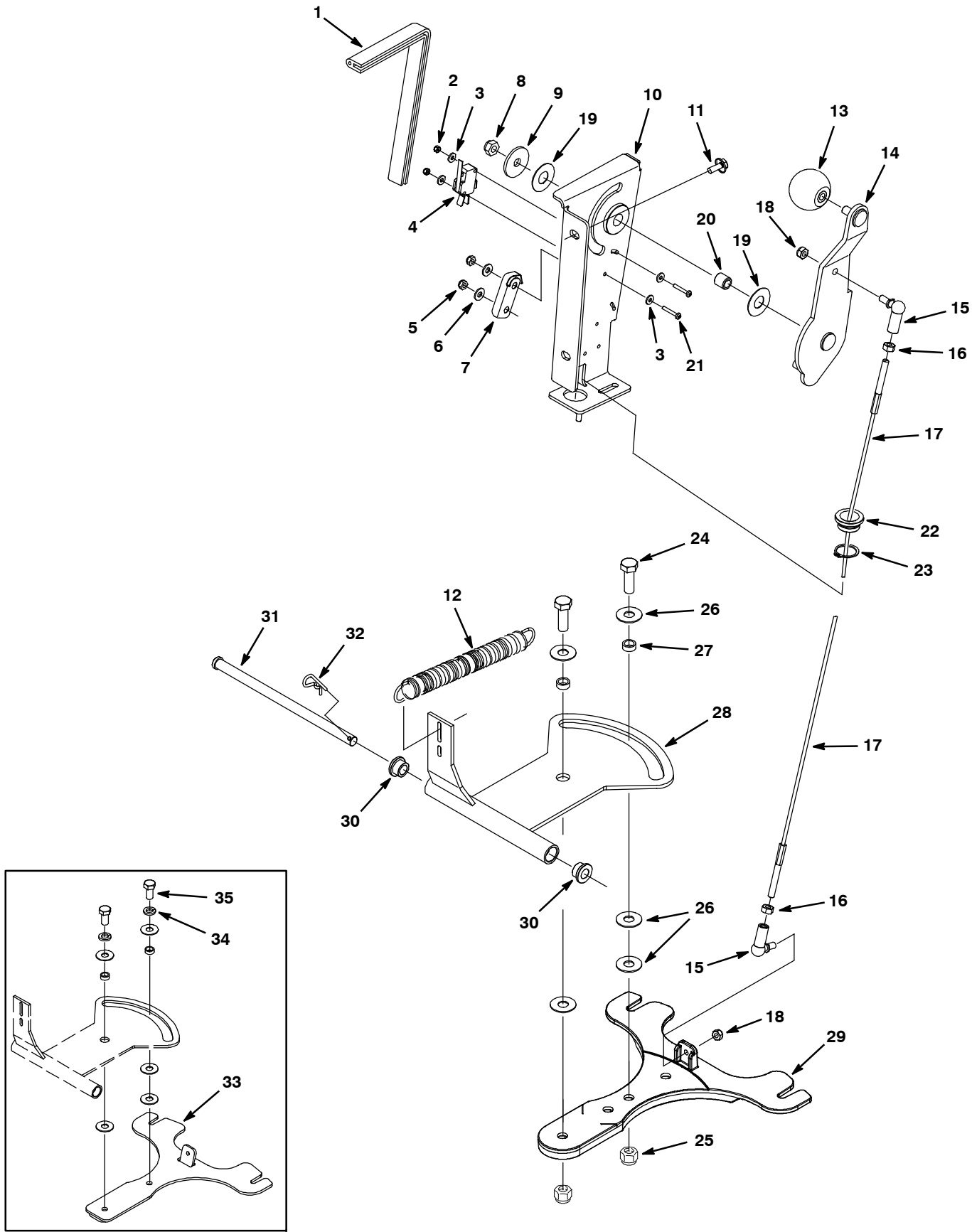
SOLUTION GROUP, STANDARD MODEL

Ref.	Part No.	Serial Number	Description	Qty.	
1	1013505	(10000000- 20000000)	Fitting, Plstc, E90, Bm08/Pm08, Nyl	1	
2	607776	(10000000- 20000000)	Clamp, Hose, Wir, .73 - .77, Silver	5	
3	069760725	(10000000- 20000000)	Hose Sol 1/2idx3.25" [611259]	1	
4	14884	(10000000- 20000000)	Fitting, Brs, Str, Bm08/Pm06 [Taped]	2	
5	605056	(10000000- 20000000)	Bracket, Mtg, Fltr	2	
6	1023543	(10000000- 20000000)	Bracket Wldt, Mtg, Filter	1	
7	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	2	
8	613531	(10000000- 20000000)	Tube, 0.50id X 0.75od Vyl 3.75ft[611259]	1	
▽	9	1005302	(10000000- 20000000)	Filter, In- Line, Pf06/Pf06, 80 Mesh	1
▲	10	613993	(10000000- 20000000)	Housing, Top, F/1005302	1
▲	11	1005304	(10000000- 20000000)	Screen, Fltr, 80 Mesh	1
▲	12	613992	(10000000- 20000000)	Gasket [Viton, F/1005302]	1
▲	13	613991	(10000000- 20000000)	Bowl, Clr, Short, F/1005302	1
14	01683	(10000000- 20000000)	Washer, Flat, #10, Ss	4	
15	09739	(10000000- 20000000)	Nut, Hex, Lock, M5 X 0.80, NI, Ss	4	
16	613521	(10000000- 20000000)	Tube, 0.50id X 0.75od Vyl 1.00ft[611259]	1	
17	1023537	(10000000- 20000000)	Bracket, Label, Soltn	1	
18	1024343	(10000000- 20000000)	Label, Soltn, Flow	1	
19	1017091	(10000000- 20000000)	Spring, Cmpr, 0.5od .036wir 00.8l	1	
20	1013442	(10000000- 20000000)	Knob, Valve, Indicator, Blk	1	
▽	21	1062385	(10000000- 20000000)	Valve, Water, Solenoid, 24vdc Bm10/Bm10	1
▲	22	614265	(10000000- 20000000)	Valve Kit, Water [Viton Diaphram] (Repair Kit)	1
23	01684	(10000000- 20000000)	Washer, Flat, 0.25, Ss	2	
24	07515	(10000000- 20000000)	Washer, Lock, Int, 0.25, Ss	2	
25	608322	(10000000- 20000000)	Screw, Trs, M6 X 1.00 X 16, Phl, Ss	2	

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

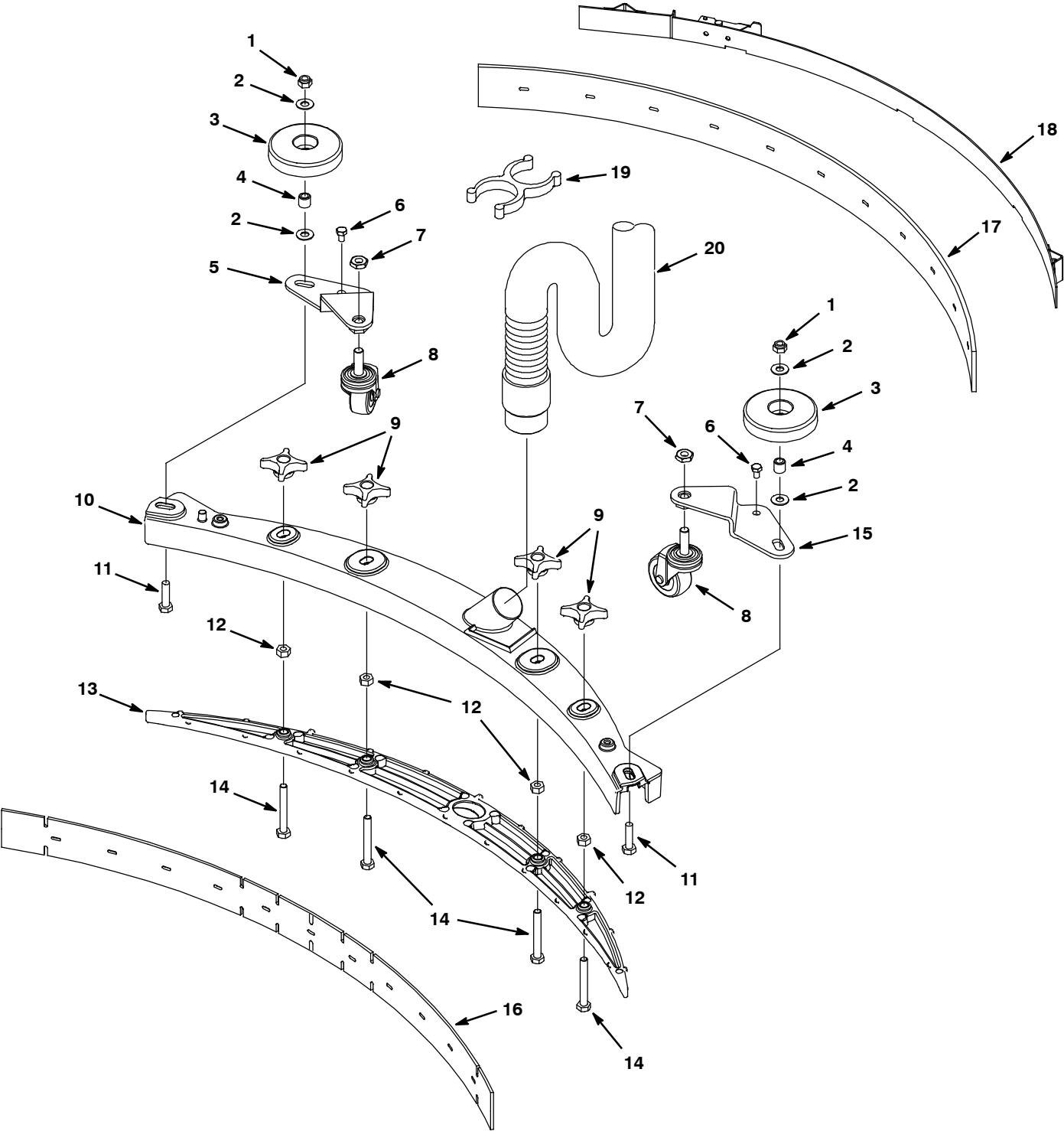
SQUEEGEE LIFT GROUP



SQUEEGEE LIFT GROUP

Ref.	Part No.	Serial Number	Description	Qty.
1	1008675	(10000000- 20000000)	Gasket, Edge, Foam, 24.00l [Fr]	1
2	579211	(10000000- 20000000)	Nut, Hex, Lock, M3 X .5, Ss	2
3	41578	(10000000- 20000000)	Washer, Flat, #06, Ss	4
4	1012568	(10000000- 20000000)	Switch, Snap, 10a, Short	1
5	09739	(10000000- 20000000)	Nut, Hex, Lock, M5 X 0.8, NI, Ss	2
6	01683	(10000000- 20000000)	Washer, Flat, #10, Ss	2
7	1024060	(10000000- 20000000)	Spring, Lever, Sqge, W/ 90° Bend	1
8	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	1
9	1016331	(10000000- 20000000)	Washer, Flat, 0.34b 1.25d .11, Ss	1
10	1020922	(10000000- 20000000)	Bracket, Lift, Sqge	1
11	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	2
12	140423	(10000000- 20000000)	Spring, Brush Press	1
13	1017156	(10000000- 20000000)	Knob, Ball, M8 Insert, 40mmd, Plstc	1
14	1024354	(10000000- 20000000)	Lever, Sqge	1
15	1012747	(10000000- 20000000)	Balljoint, M6 X 1.0 Fem, M6 X 1.0 Mal	2
16	07785	(10000000- 20000000)	Nut, Hex, Std, M6 X 1.00, A2, Ss	2
17	1024105	(10000000- 20000000)	Cable, Lift, Sqge	1
18	08712	(10000000- 20000000)	Nut, Hex, Lock, M6 X 1.0, Ss, NI	2
19	1013397	(10000000- 20000000)	Washer, Flat, M13 X 30 X 0.8, Nyl	2
20	222460	(10000000- 20000000)	Sleeve, P/M, 0.31b 0.50d 0.5l	1
21	06922	(10000000- 20000000)	Screw, Pan, M3 X 0.5 X 20, 4.8	2
22	1009363	(10000000- 20000000)	Bushing, Cable	1
23	621236	(10000000- 20000000)	Ring, Retaining, Ext, 0.81d	1
24	12309	(10387970- 20000000)	Screw, Hex, M12 X 1.75 X 30, Ss	2
25	09741	(10387970- 20000000)	Nut, Hex, Lock, M12 X 1.75, NI, Ss	2
26	140045	(10000000- 20000000)	Washer, Flat, 0.51b 1.25d .06, Ss	5
27	1013662	(10000000- 20000000)	Bushing, Sleeve, 12mm 16mm 6.5mml, Pm Yw	2
28	1020974	(10000000- 20000000)	Bracket Wldt, Pivot, Sqge	1
29	1038515	(10387970- 20000000)	Bracket Kit, Sqge, Conversion [T5]	1
30	606058	(10000000- 20000000)	Bearing, Flng .505id .753od	2
31	1026232	(10000000- 20000000)	Pin, Clevis, 0.50 D X 9.25l	1
32	140626	(10000000- 20000000)	Pin, Hair Cotter, 0.25 D .125 Wir	1
33	1038515	(10000000- 10387969)	Bracket Kit, Sqge, Conversion [T5]	1
34	140024	(10000000- 10387969)	Washer, Lock, Split, 0.50, Ss	2
35	1033003	(10000000- 10387969)	Screw, Hex, M12 X 1.75 X 25, NI, Ss	2

SQUEEGEE GROUP, 20 in / 500 mm



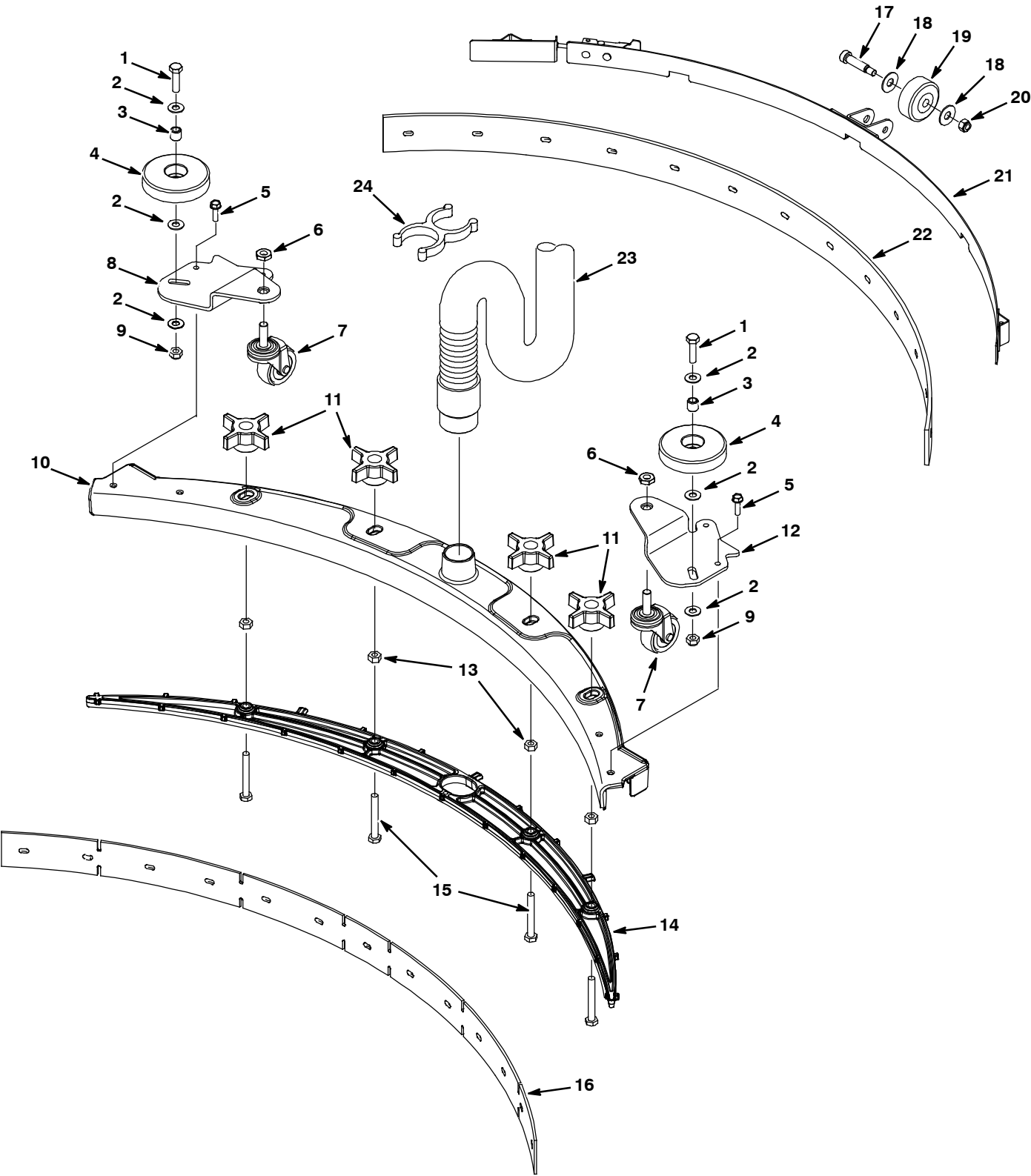
SQUEEGEE GROUP, 20 in / 500 mm

	Ref.	Part No.	Serial Number	Description	Qty.
▽		9001178	(10000000- 20000000)	Squeegee Assy Kit, 500mm, Ci	1
▲	1	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	2
▲	2	140027	(10000000- 20000000)	Washer, Flat, 0.35b 0.75d .04, Ss	4
▲	3	1010560	(10000000- 20000000)	Wheel, Bmpr, 80d X 25w, Non- Marking	2
▲	4	222460	(10000000- 20000000)	Sleeve, P/M, 0.31b 0.50d 0.5l	2
▲	5	1011228	(10000000- 20000000)	Plate, Mtg, Caster, Sqge, Rh	1
▲	6	74455	(10000000- 20000000)	Screw, Hex, M6 X 1.0 X 12, Fmg	2
▲	7	32716	(10000000- 20000000)	Nut, Hex, Jam, M10 X 1.5, Ss	2
▲	8	1006343	(10000000- 20000000)	Caster, Swivel, 50mmd, M10 X 30 Stem, PI	2
▲	9	1010558	(10000000- 20000000)	Knob, Star, 2.00d 4ear 0.7l M8x1.25 Thru	4
▲	10	1011163	(10000000- 20000000)	Frame, Sqge, 74cm, Die Cast [50cm]	1
▲	11	09011	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	2
▲	12	07786	(10000000- 20000000)	Nut, Hex, Std, M8 X 1.25, Ss	4
▲	13	1019919	(10000000- 20000000)	Retainer, Sqge, 76cm [50cm] Nyl, Blk	1
▲	14	1014163	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 60, FI, Ss	4
▲	15	1011956	(10000000- 20000000)	Plate, Mtg, Caster, Sqge, Lh	1
▲	16	1011232	(10000000- 20000000)	Blade, Sqge, Front, 500mml (Linatex Red Standard)	1
	16	1014091	(10000000- 20000000)	Blade, Sqge, Front, 500mm, Gum (Gum Rubber Tan Optional)	1
	16	1014092	(10000000- 20000000)	Blade, Sqge, Front, 500mml, Oil- Rstn (Polyurethane Natural Optional)	1
▲	17	1011456	(10000000- 20000000)	Blade, Sqge, Rear, 500mm Linatex (Linatex Red Standard)	1
	17	1014093	(10000000- 20000000)	Blade, Sqge, Rear, 500mm Gum (Gum Rubber Tan Optional)	1
	17	1014094	(10000000- 20000000)	Blade, Sqge, Rear, 500mm Oil- Rstn (Polyurethane Natural Optional)	1
▲	18	1013933	(10000000- 20000000)	Strap Assy, Sqge, 500mm	1
	19	1014079	(10000000- 20000000)	Clip, Grip, Hose, 1.50id, Dbl, Blk Pyp	1
	20	1014026	(10000000- 20000000)	Hose, Vacuum, 1.5d X 57l, 2- Short Cuffs	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SQUEEGEE GROUP, 24 in / 600 mm



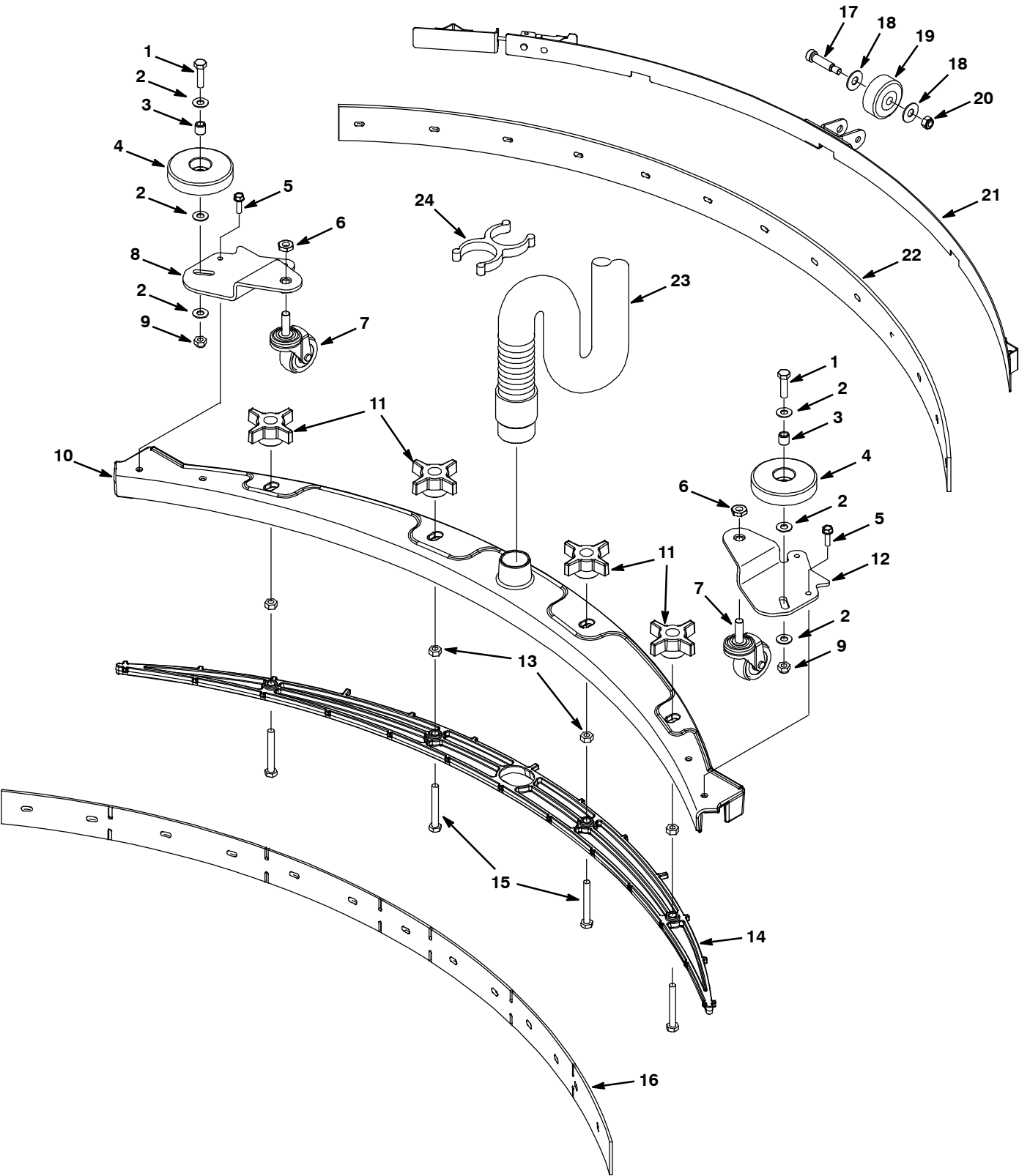
SQUEEGEE GROUP, 24 in / 600 mm

Ref.	Part No.	Serial Number	Description	Qty.
▽	9002679	(10000000- 20000000)	Kit, Squeegee, 600mm Ci	1
▲	1 09011	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	2
▲	2 140027	(10000000- 20000000)	Washer, Flat, 0.35b 0.75d .04, Ss	6
▲	3 222460	(10000000- 20000000)	Sleeve, P/M, 0.496d 0.318b 0.50l 430ss	2
▲	4 1010560	(10000000- 20000000)	Wheel, Bmpr, 80d X 25w, Non- Marking	2
▲	5 12459	(10000000- 20000000)	Screw, Hex, M6 X 1.0 X 20, Fmg	4
▲	6 32716	(10000000- 20000000)	Nut, Hex, Jam, M10 X 1.5, Ss	2
▲	7 1006343	(10000000- 20000000)	Caster, Swivel, 50mm D, M10 X 30 Stem,Zn	2
▲	8 1023273	(10000000- 20000000)	Plate, Caster, Mtg, Sqge, Rh	1
▲	9 08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	2
▲	10 1021798	(10000000- 20000000)	Frame, Sqge, 89cm [60cm]	1
▲	11 1054375	(10000000- 20000000)	Knob, Star, 2.75d 4ear 1.1l M8x1.25 Thru	4
▲	12 1023291	(10000000- 20000000)	Plate, Caster, Mtg, Sqge, Lh	1
▲	13 07786	(10000000- 20000000)	Nut, Hex, Std, M8 X 1.25, Ss	4
▲	14 1026354	(10000000- 20000000)	Retainer , Blade, Sqge, 600mm [Plstc]	1
▲	15 1014163	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 60, FI, Ss	4
▲	16 1021804	(10000000- 20000000)	Blade, Sqge, Front, 88cml [LnX, 60cm] (Linatex Red Standard)	1
	16 1025333	(10000000- 20000000)	Blade, Sqge, Front, 88cml, Gum [60cm] (Gum Rubber Tan Optional)	1
	16 1025334	(10000000- 20000000)	Blade, Sqge, Front, 88cml, Ure [60cm] (Polyurethane Natural Optional)	1
▲	17 600187	(10000000- 20000000)	Bolt, Shld, .38d X 1.25, .31- 18	1
▲	18 140028	(10000000- 20000000)	Washer, Flat, 0.42b 1.00d .05, Ss	2
▲	19 630477	(10000000- 20000000)	Wheel, Pyu, 2.0d 0.38w, Gray	1
▲	20 32983	(10000000- 20000000)	Nut, Hex, Lock, .31- 18, NI	1
▲	21 1022456	(10000000- 20000000)	Retainer Assy, Blade, Sqge, 600mm	1
▲	22 1021333	(10000000- 20000000)	Blade, Sqge, Rear, 88cm,Linatex[60cm] (Linatex Red Standard)	1
	22 1025335	(10000000- 20000000)	Blade, Sqge, Rear, 88cml, Gum [60cm] (Gum Rubber Tan Optional)	1
	22 1025336	(10000000- 20000000)	Blade, Sqge, Rear, 88cm, Ure [60cm] (Polyurethane Natural Optional)	1
	23 1014026	(10000000- 20000000)	Hose, Vacuum, 1.5d X 57l, 2- Short Cuffs	1
	24 1014079	(10000000- 20000000)	Clip, Hose, Gripper, 1.50id, Dbl, Blk Pp	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SQUEEGEE GROUP, 26 in / 650 mm & 28 in / 700 mm



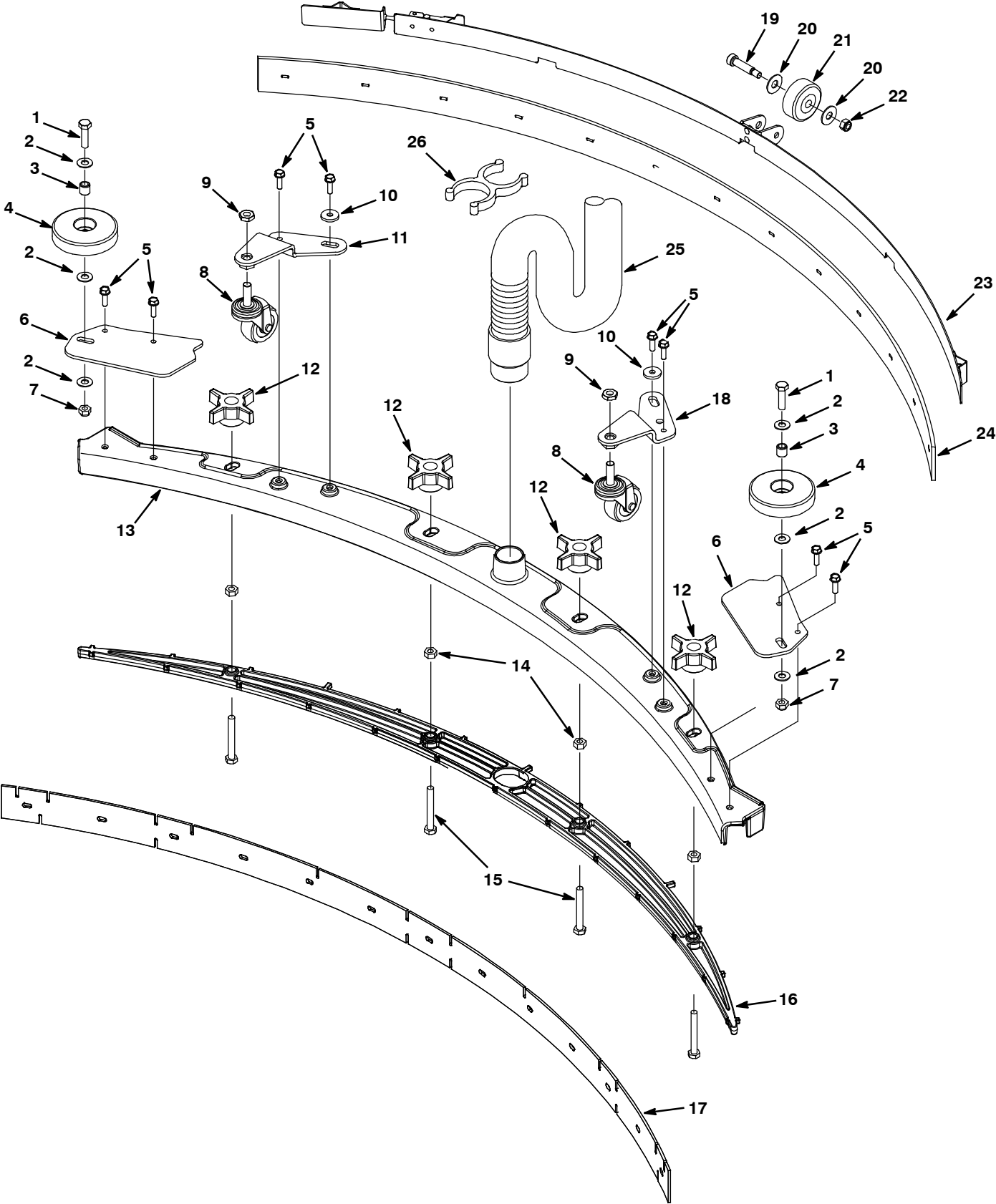
SQUEEGEE GROUP, 26 in / 650 mm & 28 in / 700 mm

Ref.	Part No.	Serial Number	Description	Qty.
▽	9002680	(10000000- 20000000)	Kit, Squeegee, 700mm Ci	1
▲	1 09011	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	2
▲	2 140027	(10000000- 20000000)	Washer, Flat, 0.35b 0.75d .04, Ss	6
▲	3 222460	(10000000- 20000000)	Sleeve, P/M, 0.496d 0.318b 0.50l 430ss	2
▲	4 1010560	(10000000- 20000000)	Wheel, Bmpr, 80d X 25w, Non- Marking	2
▲	5 12459	(10000000- 20000000)	Screw, Hex, M6 X 1.0 X 20, Fmg	4
▲	6 32716	(10000000- 20000000)	Nut, Hex, Jam, M10 X 1.5, Ss	2
▲	7 1006343	(10000000- 20000000)	Caster, Swivel, 50mm D, M10 X 30 Stem,Zn	2
▲	8 1023273	(10000000- 20000000)	Plate, Caster, Mtg, Sqge, Rh	1
▲	9 08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	2
▲	10 1023326	(10000000- 20000000)	Frame, Sqge, 104cm [70cm]	1
▲	11 1054375	(10000000- 20000000)	Knob, Star, 2.75d 4ear 1.1l M8x1.25 Thru	4
▲	12 1023291	(10000000- 20000000)	Plate, Caster, Mtg, Sqge, Lh	1
▲	13 07786	(10000000- 20000000)	Nut, Hex, Std, M8 X 1.25, Ss	4
▲	14 1026416	(10000000- 20000000)	Retainer, Blade, Sqge, 700mm [Plstc]	1
▲	15 1014163	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 60, FI, Ss	4
▲	16 1023327	(10000000- 20000000)	Blade, Sqge, Front, 98cml [LnX, 70cm] (Linatex Red Standard)	1
	16 1025337	(10000000- 20000000)	Blade, Sqge, Front, 98cml, Gum [70cm] (Gum Rubber Tan Optional)	1
	16 1025339	(10000000- 20000000)	Blade, Sqge, Front, 98cml, Ure [70cm] (Polyurethane Natural Optional)	1
▲	17 600187	(10000000- 20000000)	Bolt, Shld, .38d X 1.25, .31- 18	1
▲	18 140028	(10000000- 20000000)	Washer, Flat, 0.42b 1.00d .05, Ss	2
▲	19 630477	(10000000- 20000000)	Wheel, Pyu, 2.0d 0.38w, Gray	1
▲	20 32983	(10000000- 20000000)	Nut, Hex, Lock, .31- 18, NI	1
▲	21 1023335	(10000000- 20000000)	Bracket Wldt, Sqge, Band Clamp, 98cm	1
▲	22 1023329	(10000000- 20000000)	Blade, Sqge, Rear, 98cm,Linatex[70cm] (Linatex Red Standard)	1
	22 1025340	(10000000- 20000000)	Blade, Sqge, Rear, 98cml, Gum [70cm] (Gum Rubber Tan Optional)	1
	22 1025341	(10000000- 20000000)	Blade, Sqge, Rear, 98cm, Ure [70cm] (Polyurethane Natural Optional)	1
	23 1014026	(10000000- 20000000)	Hose, Vacuum, 1.5d X 57l, 2- Short Cuffs	1
	24 1014079	(10000000- 20000000)	Clip, Hose, Gripper, 1.50id, Dbl, Blk Pp	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

SQUEEGEE GROUP, 32 in / 800 mm



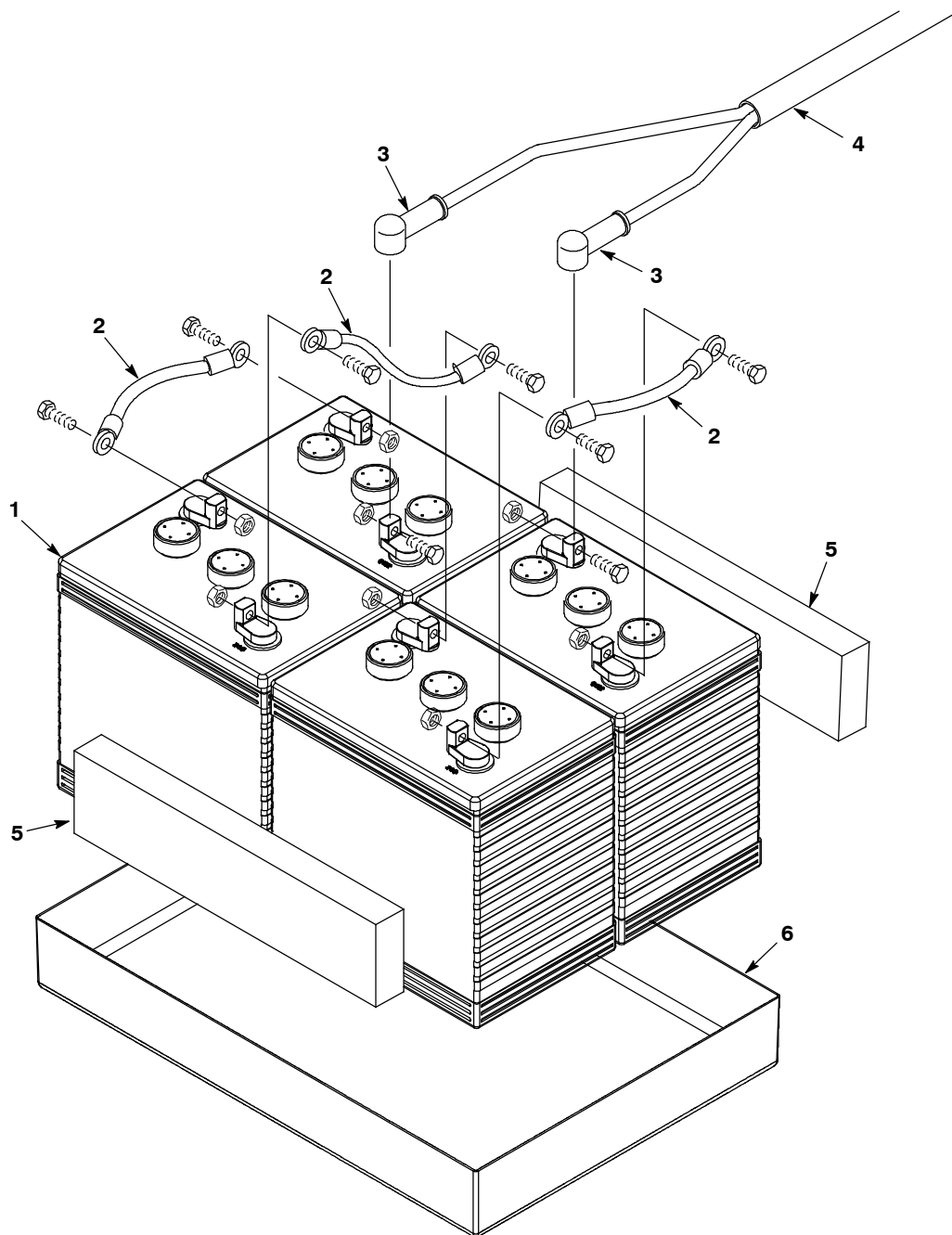
SQUEEGEE GROUP, 32 in / 800 mm

Ref.	Part No.	Serial Number	Description	Qty.
▽	9002681	(10000000- 20000000)	Kit, Squeegee, 800mm Ci	1
▲	1 09011	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 30, Ss	2
▲	2 140027	(10000000- 20000000)	Washer, Flat, 0.35b 0.75d .04, Ss	6
▲	3 222460	(10000000- 20000000)	Sleeve, P/M, 0.496d 0.318b 0.50l 430ss	2
▲	4 1010560	(10000000- 20000000)	Wheel, Bmpr, 80d X 25w, Non- Marking	2
▲	5 12459	(10000000- 20000000)	Screw, Hex, M6 X 1.0 X 20, Fmg	8
▲	6 1023426	(10000000- 20000000)	Bracket, Mtg, Sqge Bumper	2
▲	7 08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	2
▲	8 1006343	(10000000- 20000000)	Caster, Swivel, 50mm D, M10 X 30 Stem,Zn	2
▲	9 32716	(10000000- 20000000)	Nut, Hex, Jam, M10 X 1.5, Ss	2
▲	10 140053	(10000000- 20000000)	Washer, Flat, 0.28b 0.88d .12, Ss	2
▲	11 1011228	(10000000- 20000000)	Plate, Mtg, Caster, Sqge, Rh	1
▲	12 1054375	(10000000- 20000000)	Knob, Star, 2.75d 4ear 1.1l M8x1.25 Thru	4
▲	13 1023396	(10000000- 20000000)	Frame, Sqge, 117cm [80cm]	1
▲	14 07786	(10000000- 20000000)	Nut, Hex, Std, M8 X 1.25, Ss	4
▲	15 1014163	(10000000- 20000000)	Screw, Hex, M8 X 1.25 X 60, Fl, Ss	4
▲	16 1024970	(10000000- 20000000)	Retainer, Blade, Sqge, 800mm [Plstc]	1
▲	17 1023398	(10000000- 20000000)	Blade, Sqge, Front, 105cm [Linx 80cm] (Linatex Red Standard)	1
	17 1025342	(10000000- 20000000)	Blade, Sqge, Front, 105cml, Gum[80cm] (Gum Rubber Tan Optional)	1
	17 1025343	(10000000- 20000000)	Blade, Sqge, Front, 105cm, Ure [80cm] (Polyurethane Natural Optional)	1
▲	18 1011956	(10000000- 20000000)	Plate, Mtg, Caster, Sqge, Lh	1
▲	19 600187	(10000000- 20000000)	Bolt, Shld, .38d X 1.25, .31- 18	1
▲	20 140028	(10000000- 20000000)	Washer, Flat, 0.42b 1.00d .05, Ss	2
▲	21 630477	(10000000- 20000000)	Wheel, Pyu, 2.0d 0.38w, Gray	1
▲	22 32983	(10000000- 20000000)	Nut, Hex, Lock, .31- 18, NI	1
▲	23 1023400	(10000000- 20000000)	Retainer Assy, Blade, Sqge, 800mm	1
▲	24 1023399	(10000000- 20000000)	Blade, Sqge, Rear, 105cml[Linx, 80cm] (Linatex Red Standard)	1
	24 1025344	(10000000- 20000000)	Blade, Sqge, Rear, 105cml, Gum [80cm] (Gum Rubber Tan Optional)	1
	24 1025346	(10000000- 20000000)	Blade, Sqge, Rear, 105cml, Ure [80cm] (Polyurethane Natural Optional)	1
	25 1014026	(10000000- 20000000)	Hose, Vacuum, 1.5d X 57l, 2- Short Cuffs	1
	26 1014079	(10000000- 20000000)	Clip, Hose, Gripper, 1.50id, Dbl, Blk Pp	1

▽ ASSEMBLY

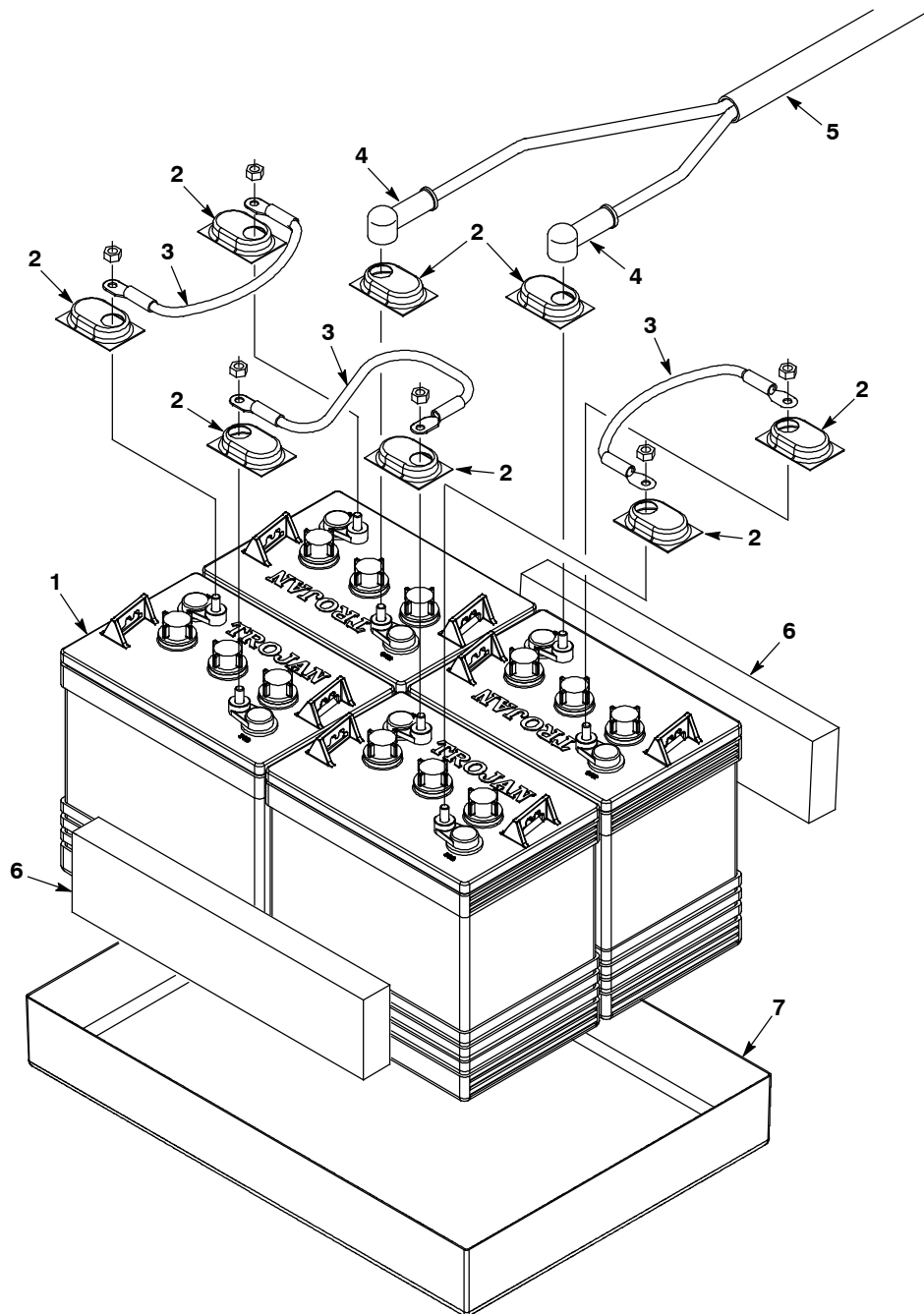
▲ INCLUDED IN ASSEMBLY

BATTERY GROUP, MAINTENANCE FREE 220 Ah



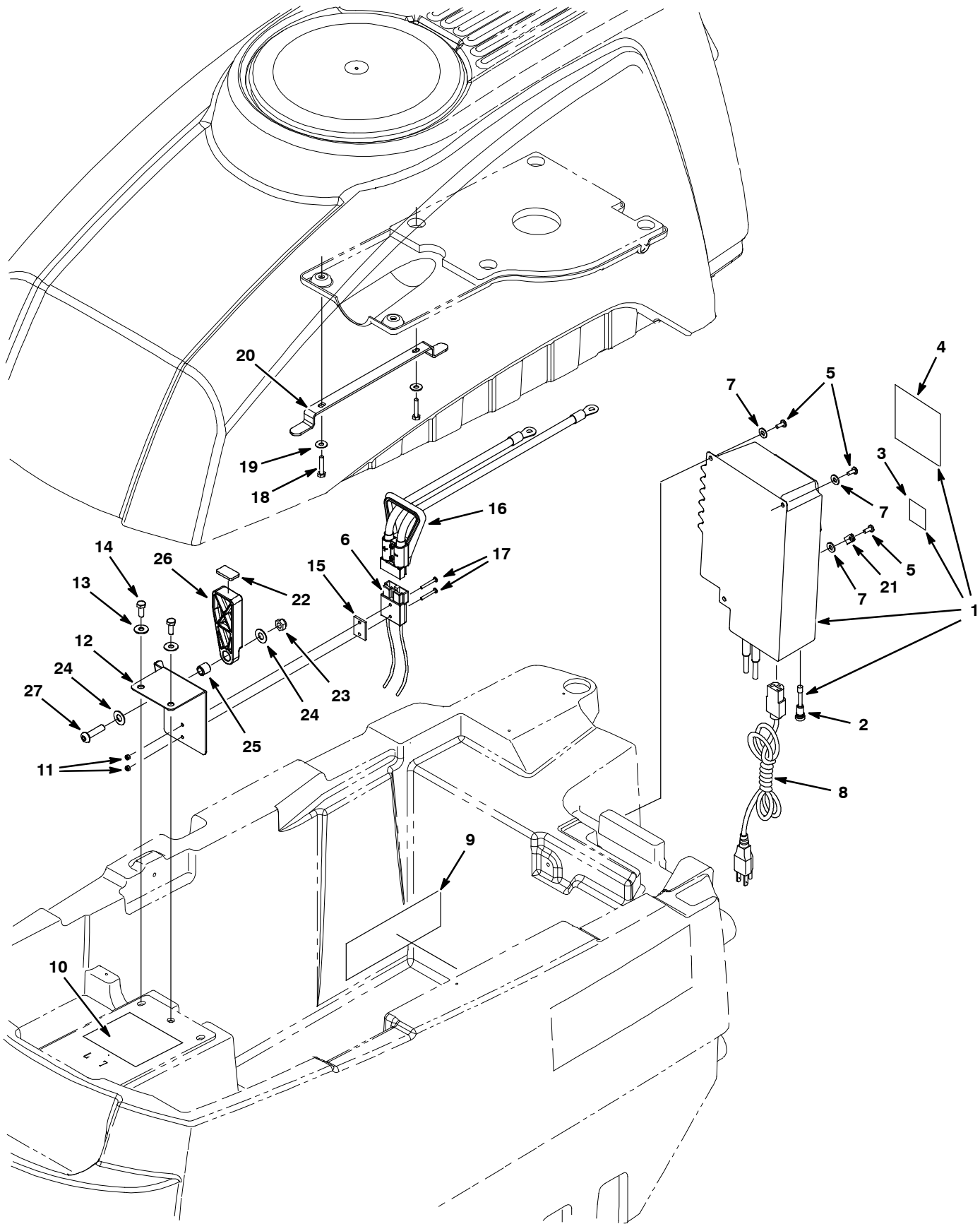
Ref.	Part No.	Serial Number	Description	Qty.
1	1074042	(10000000- 20000000)	Battery, Agm, 06vdc, 220ah (Discover)	4
2	130364	(10000000- 20000000)	Cable, 06ga 15.0l Blk .31ring /.38ring	3
3	611221	(10000000- 20000000)	Boot, Terminal, Battery, 25.4mm, Blk	8
4	1027088	(10000000- 20000000)	Harness, Battery	1
5	630375	(10000000- 20000000)	Spacer, Battery, 1.25 X 3.25 X 13.7 Foam	2
6	613971	(10000000- 20000000)	Tray, Battery, Trimmed	1

BATTERY GROUP, LEAD-ACID 235 Ah



Ref.	Part No.	Serial Number	Description	Qty.
1	222280	(10000000- 20000000)	Battery, 06vdc, 235ah, Wet	4
2	45962	(10000000- 20000000)	Cap, Plstc, .04 1.38 X 2.30 0.5l (Tall Clear - Standard)	8
2	1041030	(10000000- 20000000)	Cap, Battery (Short Black - Optional)	8
3	130364	(10000000- 20000000)	Cable, 06ga 15.0l Blk .31ring /.38ring	3
4	611221	(10000000- 20000000)	Boot, Terminal, Battery, 25.4mm, Blk	8
5	1027088	(10000000- 20000000)	Harness, Battery	1
6	630375	(10000000- 20000000)	Spacer, Battery, 1.25 X 3.25 X 13.7 Foam	2
7	613971	(10000000- 20000000)	Tray, Battery, Trimmed	1

ON-BOARD CHARGER GROUP - 120V (S/N 10409250-)



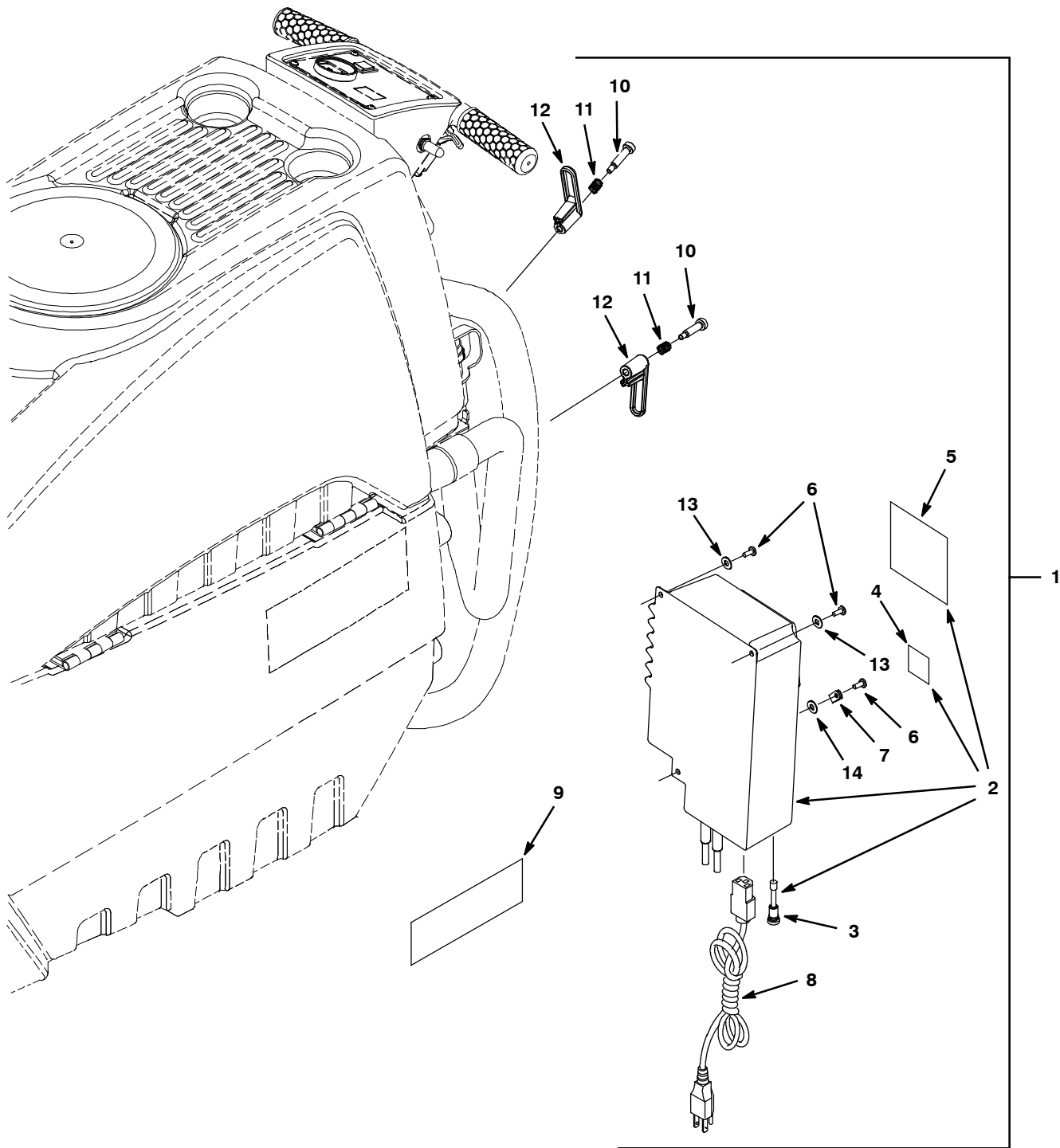
ON-BOARD CHARGER GROUP - 120V (S/N 10409250-)

	Ref.	Part No.	Serial Number	Description	Qty.
▽		9005738	(10409250- 20000000)	Charger Kit, 24vdc, 120vac, Ci [Ss5]	1
▲▽	1	1050399	(10409250- 20000000)	Charger, 120vac [Onboard]	1
▲▲	2	1030692	(10000000- 20000000)	Vr, Fuse, 15a, Replmt	1
▲▲	3	578768	(10000000- 20000000)	Label, Hzrd, [Hazardous Voltage] Txtls	1
▲▲	4	1025158	(10000000- 20000000)	Label, Charger, Afmkt	1
▲▲	5	578144000	(10000000- 20000000)	Screw, Pan, M5 X 0.80 X 16, Pozi, Ss	3
▲▲	6	605387	(10000000- 20000000)	Connector, Anderson, 050a, Red [W/O Con]	2
▲	7	01684	(10000000- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	1
▲	8	1025642	(10000000- 20000000)	Cord, Power, 16/3, 4.5 Meters, Blk [Us]	1
▲	9	1028175	(10000000- 20000000)	Label, Instr [Charger Setting]	1
▲	10	1051362	(10409250- 20000000)	Label, Instr, Charge	1
▲	11	579211	(10409250- 20000000)	Nut, Hex, Lock, M3 X 0.50, NI, Ss	2
▲	12	1049592	(10409250- 20000000)	Bracket, Mtg	1
▲	13	01684	(10409250- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	2
▲	14	11329	(10409250- 20000000)	Screw, Hex, M6 X 1.00 X 16, NI, Ss	2
▲	15	603331	(10409250- 20000000)	Spacer, Plug, Chrgr	1
▲▽	16	1049591	(10409250- 20000000)	Harness, Cable, Battery, W/ Handle	1
▲▲		1049583	(10409250- 20000000)	Handle, Connector [Anderson Smh] (Includes Mtg Hardware)	1
▲▲		605387	(10409250- 20000000)	Connector, Anderson, 050a, Red [W/O Con]	1
▲	17	33933	(10409250- 20000000)	Screw, Pan, Phl, M3 X 0.50 X 25, Ss	2
▲	18	06945	(10409250- 20000000)	Screw, Hex, M6 X 1.00 X 30, 8.8	2
▲	19	01684	(10409250- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	2
▲	20	1049610	(10409250- 20000000)	Hook, Cord	1
▲	21	26395- 2	(10000000- 20000000)	Clamp, Cable, Stl, 0.38d X 0.38w, 1h	1
▲	22	1032763	(10558135- 20000000)	Gasket, Stand, Support	1
▲	23	08713	(10558135- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	1
▲	24	140027	(10558135- 20000000)	Washer, Flat, 0.35b 0.75d .04, Ss	2
▲	25	222460	(10558135- 20000000)	Sleeve, P/M, 0.32b 0.50d 0.5l [430ss]	1
▲	26	1022399	(10558135- 20000000)	Support, Tank, Prop, Blk, Nyl	1
▲	27	1039118	(10558135- 20000000)	Screw, Btn, M8 X 1.25 X 30, Blk	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

ON-BOARD CHARGER GROUP - 120V (S/N 10000000-10409249)

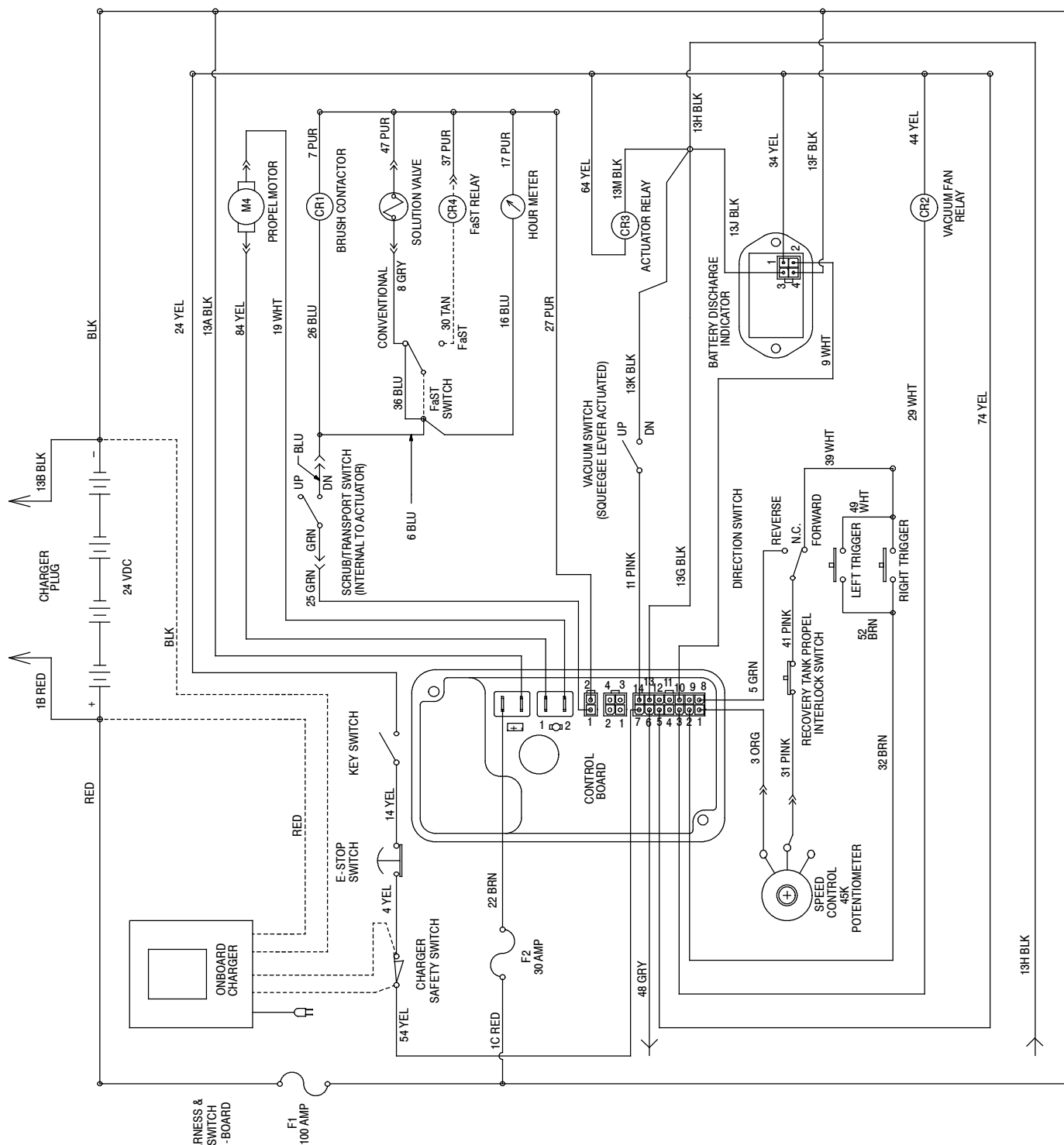


ON-BOARD CHARGER GROUP - 120V (S/N 10000000- 10409249)

Ref.	Part No.	Serial Number	Description	Qty.
1	N/A	(10000000- 10409249)	Charger Kit, Battery, Ci [120v Ss T5e] (Replaced By Kit 9005738)	1
2	N/A	(10000000- 10409249)	Charger, 120vac [Onboard] (Replaced By Kit 9005738)	1
3	1030692	(10000000- 20000000)	Vr, Fuse, 15a, Replmt	1
4	578768	(10000000- 20000000)	Label, Hzrd, [Hazardous Voltage] Txtls	1
5	1025158	(10000000- 20000000)	Label, Charger, Afmkt	1
6	578144000	(10000000- 20000000)	Screw, Pan, M5 X 0.80 X 16, Pozi, Ss	3
7	26395- 2	(10000000- 20000000)	Clamp, Cable, Stl, 0.38d X 0.38w, 1h	1
8	1025642	(10000000- 20000000)	Cord, Power, 16/3 X 4.5 Meters, Blk [Us]	1
9	1028175	(10000000- 20000000)	Label, Instr [Charger Setting]	1
10	1024965	(10000000- 20000000)	Bolt, Shld, 8mmd X 30, M6x1.0	2
11	611311	(10000000- 20000000)	Spring, Cmpr, 10.9d, 1.1w, 12.7l Mw Zn	2
12	610906	(10000000- 20000000)	Hook, Cord Viper	2
13	01683	(10000000- 20000000)	Washer, Flat, 10, Ss	2
14	01684	(10000000- 20000000)	Washer, Flat, 0.27b 0.69d .05, Ss	1

Nobles Speed Scrub® (11-2010)

NOTES:
CHARGER PLUG HARNESS &
CHARGER SAFETY SWITCH
REMOVED WITH ON-BOARD
CHARGER OPTION.



Nobles Speed Scrub® (11-2010)

NOTES:
CHARGER PLUG HARNESS &
CHARGER SAFETY SWITCH
REMOVED WITH ON-BOARD
CHARGER OPTION.

12VDC ELECTRICAL SYSTEM WIRING

Legend:
F1 100 AMP
F2 30 AMP

Components and Connections:

- Charger Plug:** 18 RED (+), 13B BLK (-). Connected to 24 VDC.
- Onboard Charger:** Connected to 18 RED (+) and 13B BLK (-).
- Control Board:**
 - 10 RED (+) to F1 100 AMP.
 - 22 BRN (-) to F2 30 AMP.
 - 48 GRN (-) to 13H BLK (-).
- Propulsion Motor (M4):**
 - 25 GRN (-) to 13B BLK (-).
 - 26 BLU (+) to 13B BLK (-).
 - 27 PUR (+) to 13B BLK (-).
- Sensors and Switches:**
 - SCRUB/TRANSPORT SWITCH (INTERNAL TO ACTUATOR):** 25 GRN (-) to 13B BLK (-).
 - KEY SWITCH:** 14 YEL (+) to 13B BLK (-).
 - E-STOP SWITCH:** 4 YEL (+) to 13B BLK (-).
 - CHARGER SAFETY SWITCH:** 54 YEL (+) to 13B BLK (-).
 - SOLUTION VALVE:** 8 GRN (+) to 13B BLK (-).
 - HOUR METER:** 16 BLU (+) to 13B BLK (-).
 - ACTUATOR RELAY:** 13M BLK (+) to 13B BLK (-).
 - BATTERY DISCHARGE INDICATOR:** 13H BLK (+) to 13B BLK (-).
 - VACUUM SWITCH (SQUEEGEE LEVER ACTUATED):** 11 PINK (+) to 13B BLK (-).
 - DIRECTION SWITCH:** 31 PINK (+) to 13B BLK (-).
 - RECOVERY TANK PROPEL INTERLOCK SWITCH:** 41 PINK (+) to 13B BLK (-).
 - SPEED CONTROL POTENTIOMETER (45K):** 32 BRN (+) to 13B BLK (-).
 - LEFT TRIGGER:** 49 WHT (+) to 13B BLK (-).
 - RIGHT TRIGGER:** 52 BRN (+) to 13B BLK (-).

Wiring Diagram Description:
The diagram illustrates the 12VDC electrical system. Power is supplied by a 24VDC source through a charger plug (18 RED, 13B BLK) and an onboard charger. The system includes a control board with multiple terminals (1-10) and a 30 AMP fuse (F2). Key components include a propulsion motor (M4), a solution valve, an hour meter, an actuator relay, a battery discharge indicator, a vacuum switch, a direction switch, a recovery tank propel interlock switch, a speed control potentiometer, and left/right triggers. The wiring is color-coded and labeled with terminal numbers and component names.

The diagram illustrates the electrical wiring for the ec-H2O control system. It shows the power supply, the ec-H2O CONTROL BOARD, and the various components connected to it, including motors, switches, and sensors.

Power Supply and Distribution:

- 120V AC (1A RED) is connected to a 10A fuse (F4).
- The 24VDC supply (+24V) is connected to the ec-H2O CONTROL BOARD.

ec-H2O CONTROL BOARD Connections:

- J5-11 (48W GRY) connects to the ec-H2O ALARM.
- J5-12 (48X GRY) connects to the SOLUTION PUMP (M7).
- J5-7 (58 GRY) connects to the ec-H2O ALARM.
- J5-8 (101 PNK) connects to the SOLUTION PUMP (M7).
- J5-4 (ENABLE), J5-10 (MODE), J5-3 (LED B), J5-1 (LED GND), and J5-2 (LED A) connect to an LED.
- J6-1 (SOL A), J6-2 (SOL B), J6-3 (SPA A), J6-6 (SPA B), J6-5 (CELL A), and J6-7 (CELL B) connect to various components.

Motor and Actuator Connections:

- RIGHT BRUSH MOTOR (M1) is connected to 13B BLK.
- LEFT BRUSH MOTOR (M2) is connected to 13L BLK.
- VACUUM MOTOR (M3) is connected to 13C BLK.
- SCRUB DECK ACTUATOR MOTOR (M5) is connected to 13N BLK.

Switches and Sensors:

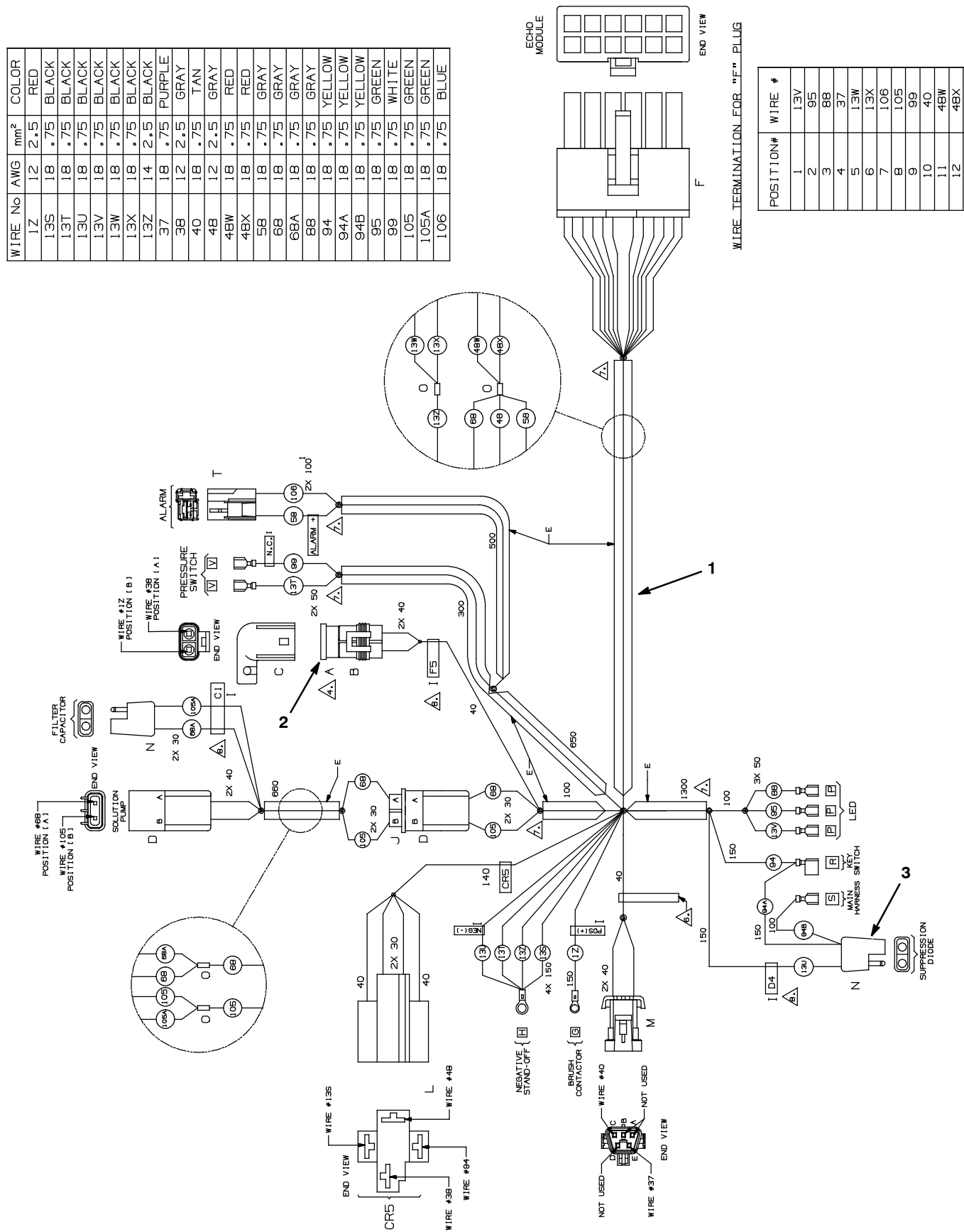
- BRUSH PRESSURE switch is connected to 12 BRN and 59 WHT.
- PRESSURE SWITCH is connected to 99 WHT and 13T BLK.
- RETRACT LIMIT (INTERNAL TO ACTUATOR) and EXTEND LIMIT (INTERNAL TO ACTUATOR) are connected to the SCRUB DECK ACTUATOR MOTOR (M5).

Other Components:

- ec-H2O ALARM (101 PNK) is connected to the ec-H2O CONTROL BOARD.
- SOLUTION PUMP (M7) is connected to the ec-H2O CONTROL BOARD.
- LED is connected to the ec-H2O CONTROL BOARD.
- SPARGER, CELL, and other components are connected to the ec-H2O CONTROL BOARD.

WIRE HARNESS GROUP, *ec-H2O* OPTION (S/N 10455033-)

WIRE No	AWG	mm ²	COLOR
12	12	2.5	RED
13S	18	.75	BLACK
13T	18	.75	BLACK
13U	18	.75	BLACK
13V	18	.75	BLACK
13W	18	.75	BLACK
13X	18	.75	BLACK
13Z	14	2.5	BLACK
37	18	.75	PURPLE
38	12	2.5	GRAY
40	18	.75	TAN
48	12	2.5	GRAY
48W	18	.75	RED
58	18	.75	GRAY
68	18	.75	GRAY
68A	18	.75	GRAY
88	18	.75	GRAY
94	18	.75	YELLOW
94A	18	.75	YELLOW
94B	18	.75	YELLOW
95	18	.75	GREEN
99	18	.75	WHITE
105	18	.75	GREEN
105A	18	.75	GREEN
106	18	.75	BLUE



WIRE HARNESS GROUP, *ec-H2O* OPTION (S/N 10455033-)

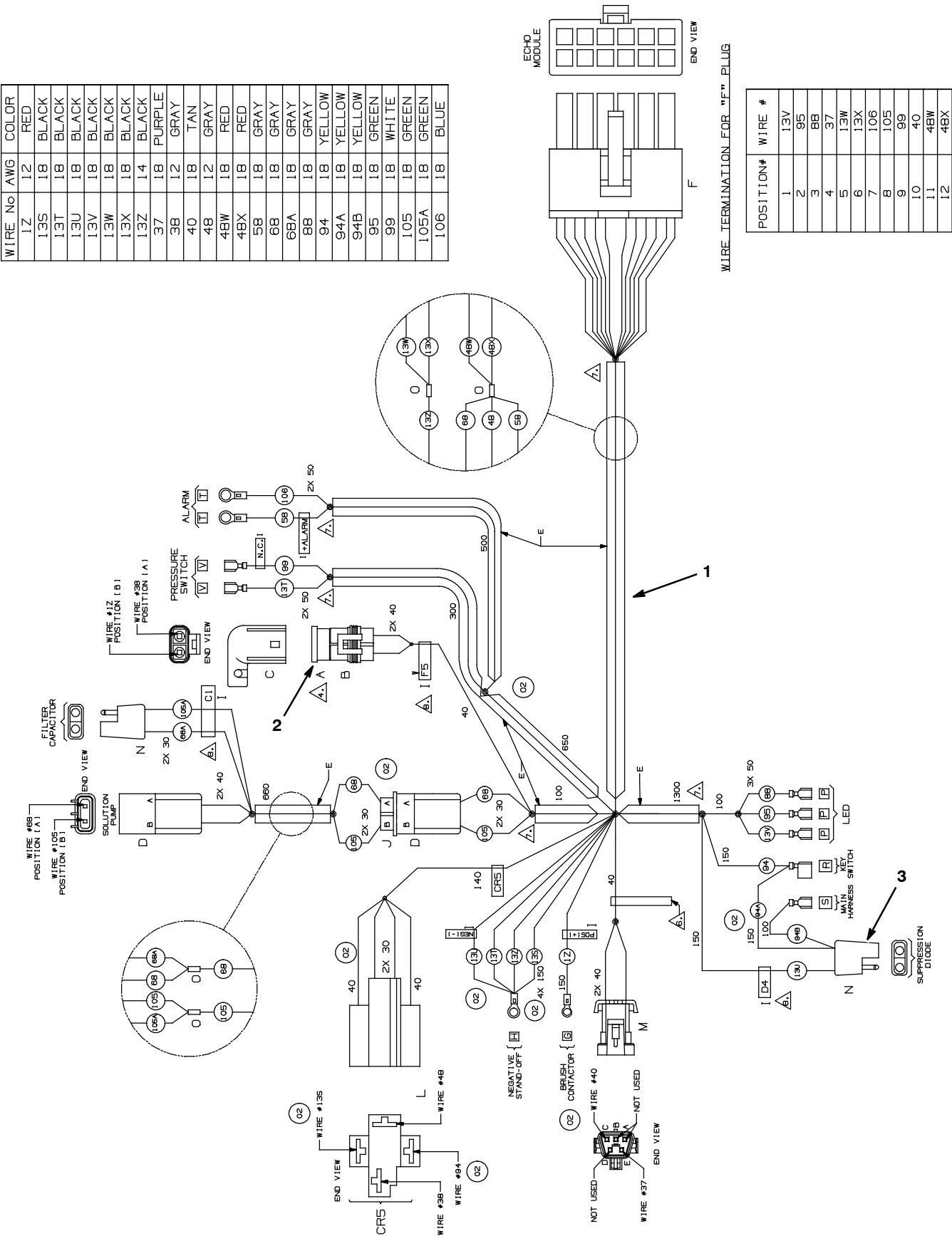
	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1055447	(10455033- 20000000)	Harness Assy, Wire [Ss5 Ec- H2o]	1
▲	2	1047470	(10000000- 20000000)	Fuse, Blade, 010a, 32vdc, Red	1
▲	3	222290	(10000000- 20000000)	Diode, Ele, Plug	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

WIRE HARNESS GROUP, *ec*-H2O OPTION (S/N 1000000- 10455032)

WIRE No	AWG	COLOR
12	12	RED
13S	18	BLACK
13T	18	BLACK
13U	18	BLACK
13V	18	BLACK
13W	18	BLACK
13X	18	BLACK
13Z	14	BLACK
37	18	PURPLE
38	12	GRAY
40	18	TAN
48	12	GRAY
48W	18	RED
48X	18	RED
58	18	GRAY
68	18	GRAY
68A	18	GRAY
88	18	GRAY
94	18	YELLOW
94A	18	YELLOW
94B	18	YELLOW
95	18	GREEN
99	18	WHITE
105	18	GREEN
105A	18	GREEN
106	18	BLUE



POSITION#	WIRE #
1	13V
2	95
3	88
4	37
5	13W
6	13X
7	106
8	105
9	99
10	40
11	48W
12	48X

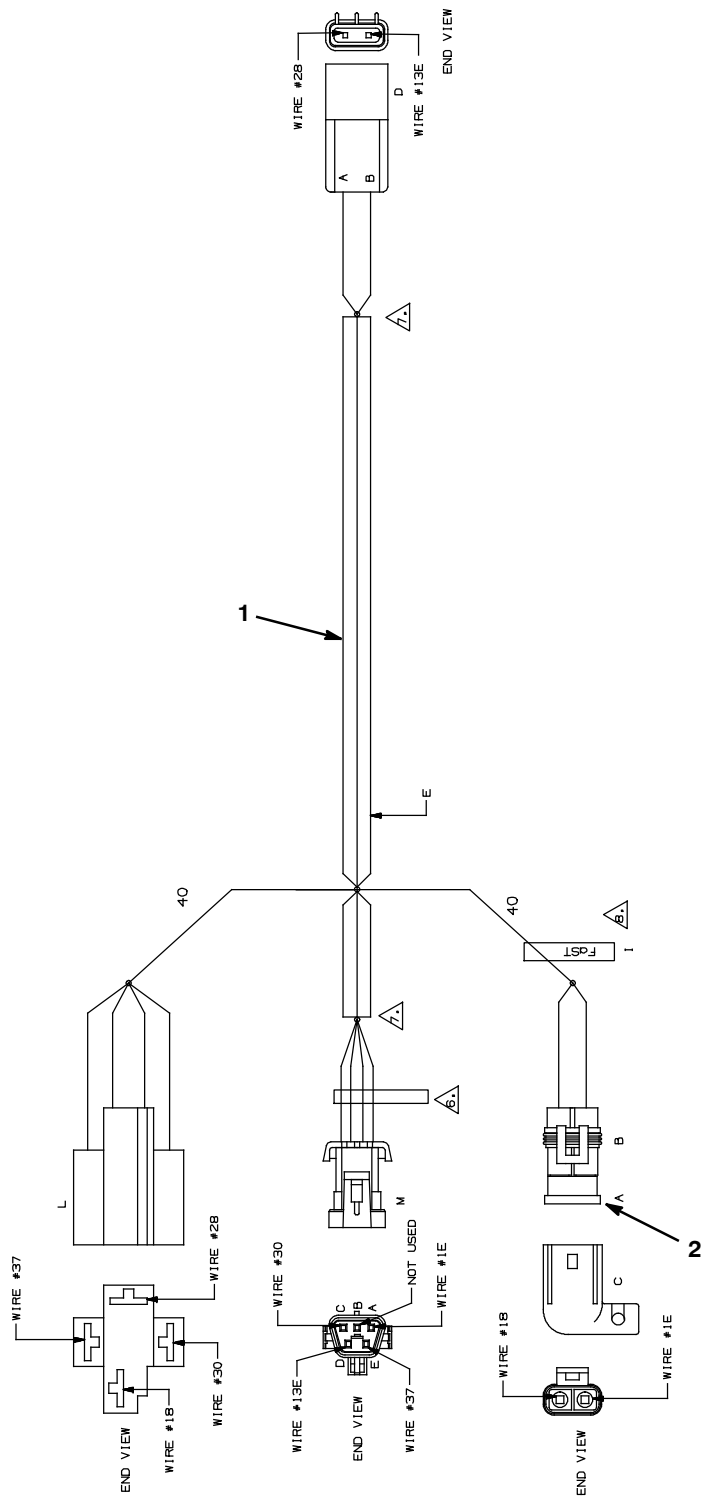
WIRE HARNESS GROUP, *ec*-H2O OPTION (S/N 10000000- 10455032)

	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1045956	(10000000- 10455032)	Harness Assy, Wire [Ss5 Ec- H2o, P3]	1
▲	2	1047470	(10000000- 20000000)	Fuse, Blade, 010a, 32vdc, Red	1
▲	3	222290	(10000000- 20000000)	Diode, Ele, Plug	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

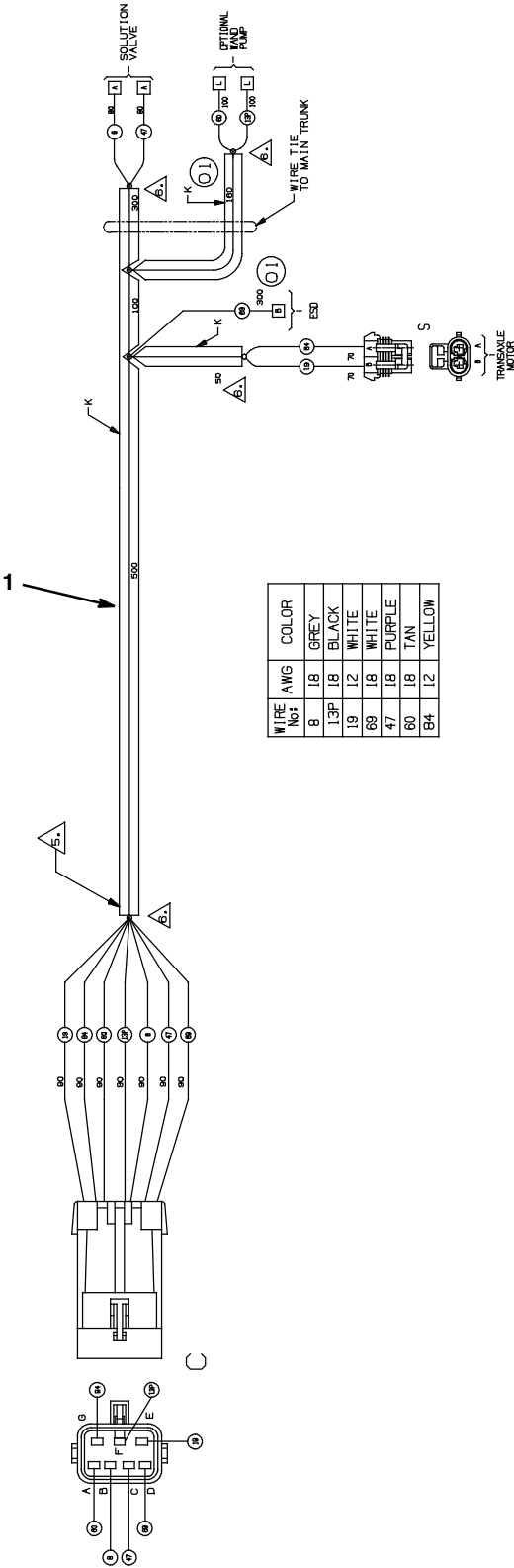
WIRE HARNESS GROUP, FAST OPTION



Ref.	Part No.	Serial Number	Description	Qty.
▽ 1	1028396	(10000000- 20000000)	Harness Assy, Wire [Fast Option, Ss5]	1
▲ 2	1016039	(10000000- 20000000)	Fuse, Blade, 007.5a, 32vdc	1

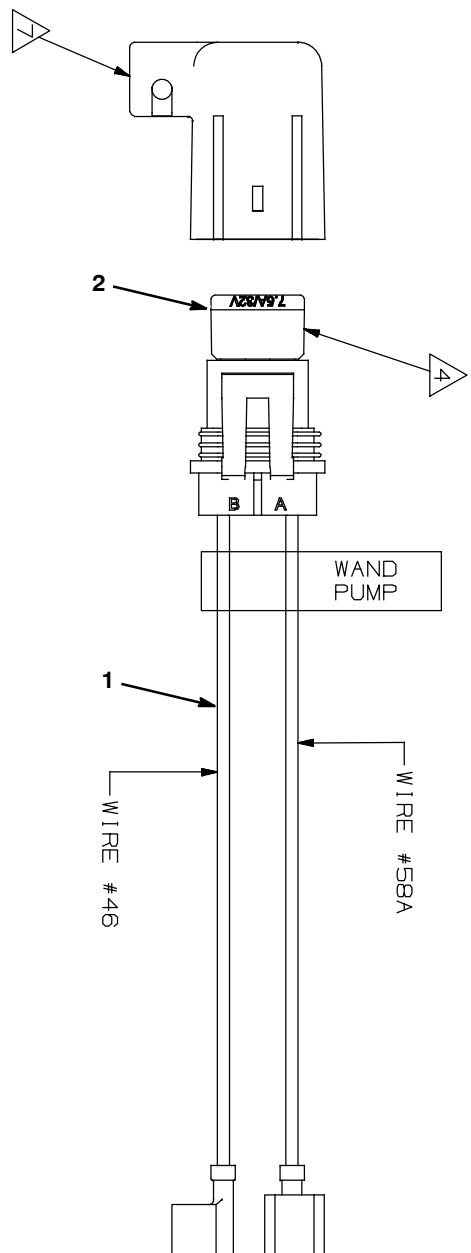
▽ ASSEMBLY
▲ INCLUDED IN ASSEMBLY

WIRE HARNESS GROUP, FRAME



Ref.	Part No.	Serial Number	Description	Qty.
1	1024721	(10000000- 20000000)	Harness, Chassis, Wire [Ss5]	1

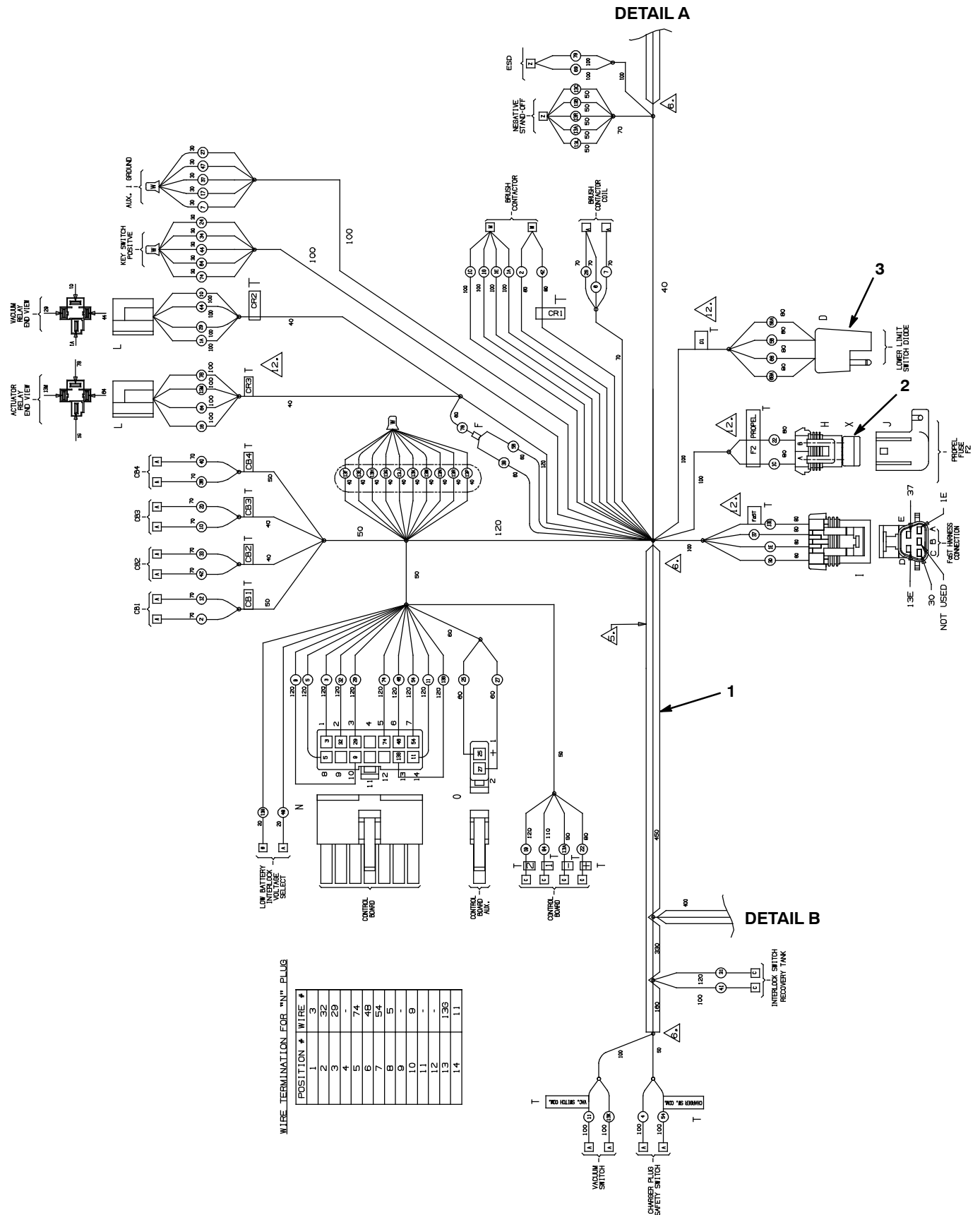
WIRE HARNESS GROUP, WAND OPTION



	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1026870	(10000000- 20000000)	Harness, Wand [Ss5]	1
▲	2	1016039	(10000000- 20000000)	Fuse, Blade, 007.5a, 32vdc	1

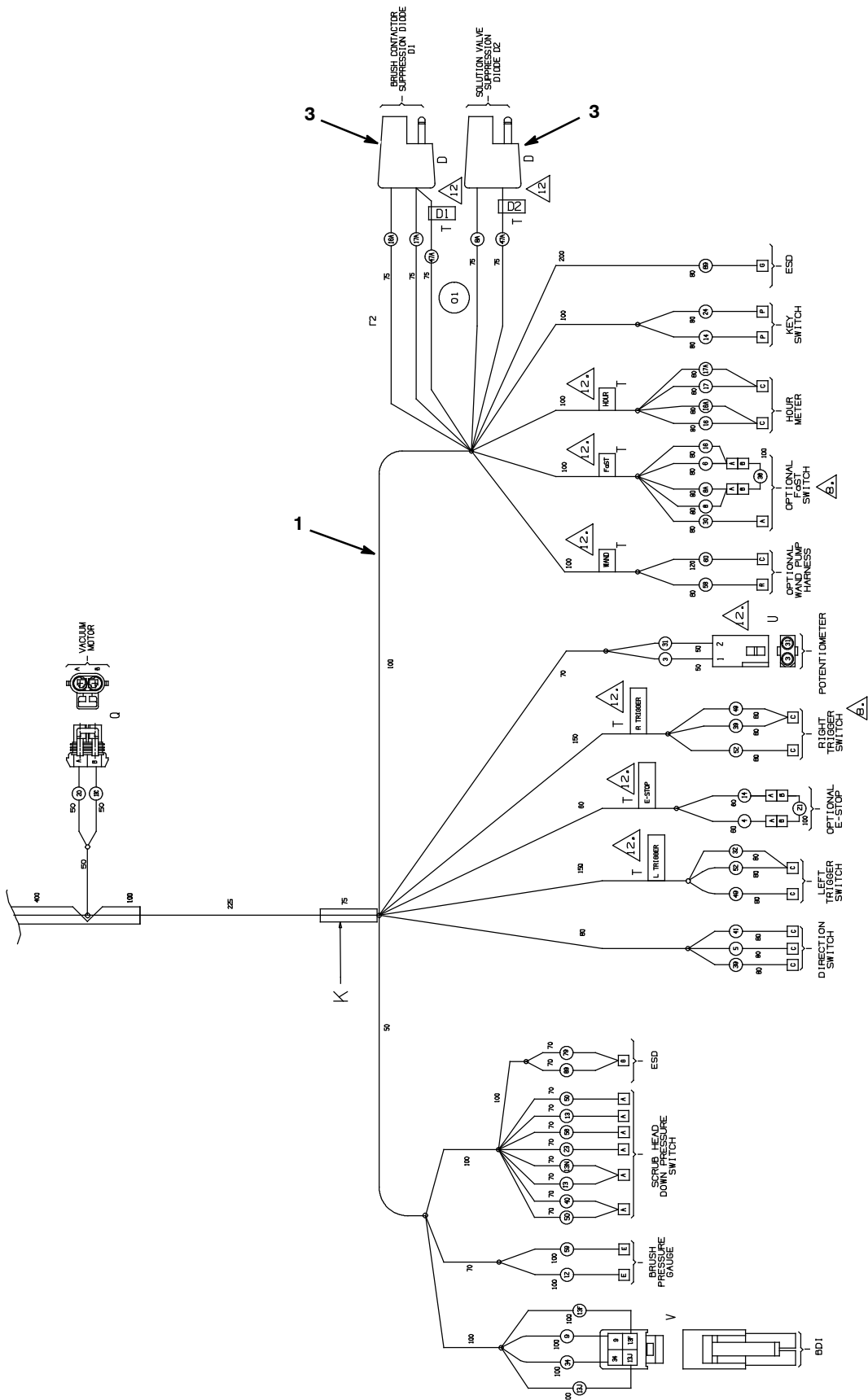
▽ ASSEMBLY
▲ INCLUDED IN ASSEMBLY

WIRE HARNESS GROUP, MAIN

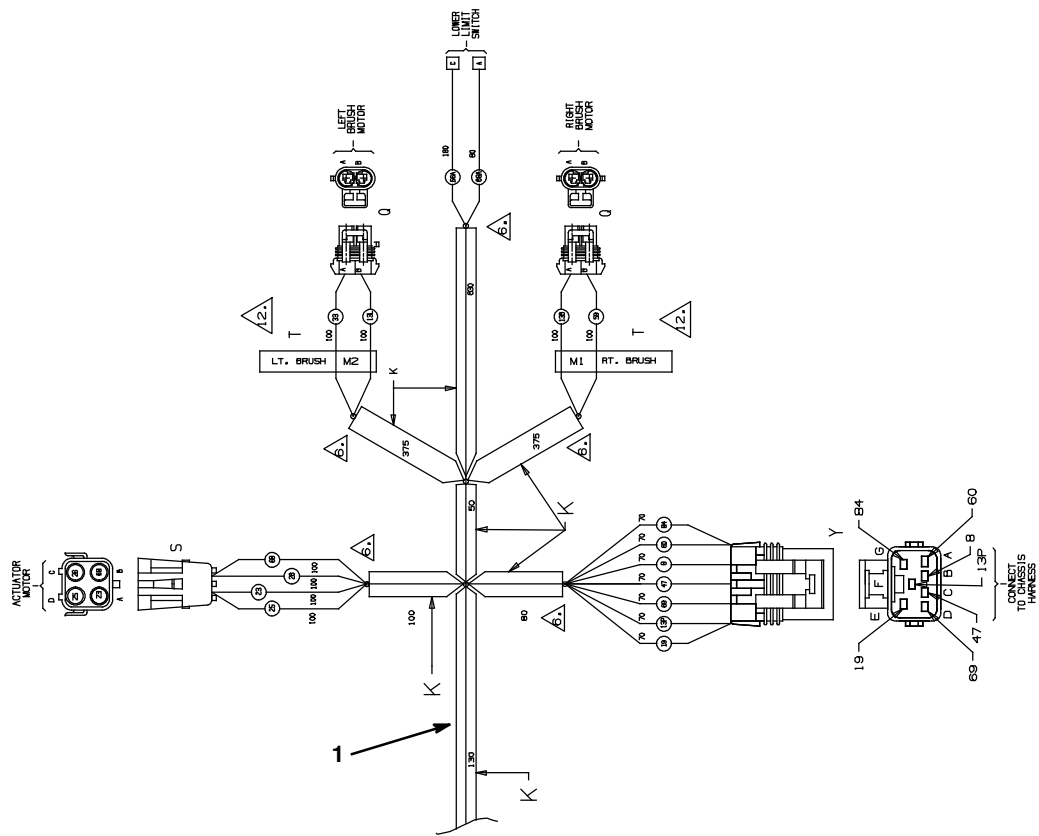


WIRE HARNESS GROUP, MAIN

DETAIL B -
CONTINUED



WIRE HARNESS GROUP, MAIN



DETAIL A -
CONTINUED

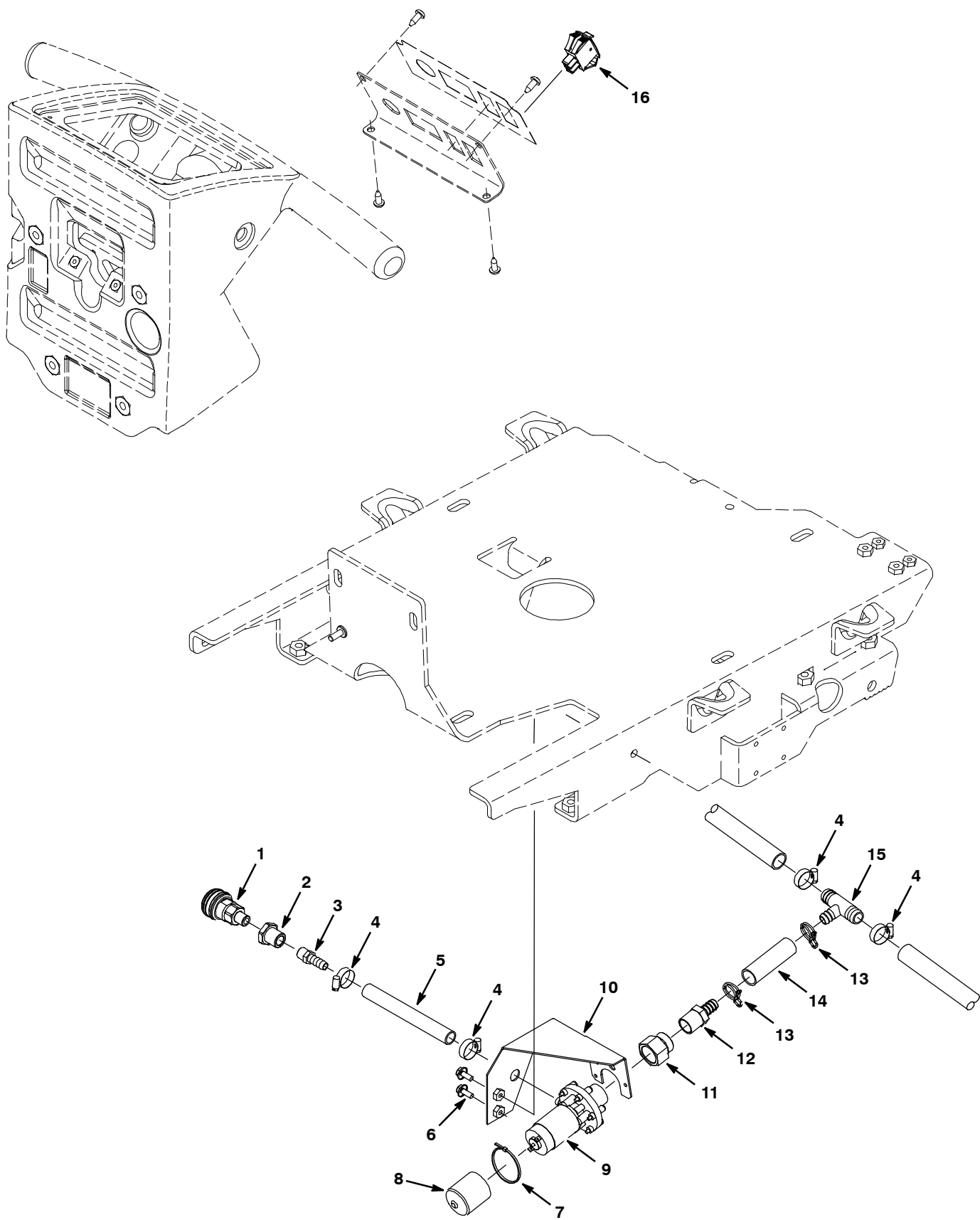
WIRE NO#	AWG	COLOR
1A	18	WHITE
29	18	WHITE
30	18	TAN
31	18	PINK
32	18	BROWN
33	10	ORANGE
34	18	YELLOW
36	18	BLUE
37	18	PURPLE
38	16	GRAY
39	18	WHITE
40	18	TAN
41	18	PINK
42	10	BROWN
44	18	YELLOW
47	18	PURPLE
47A	18	PURPLE
48	18	GRAY
49	18	WHITE
50	16	TAN
52	18	BROWN
54	18	YELLOW
56	18	BLUE
56A	18	BLUE
58	18	GRAY
59	10	WHITE
60	18	TAN
64	18	YELLOW
68	18	GRAY
68A	18	GRAY
69	18	WHITE
74	18	YELLOW
78	12	GRAY
79	18	WHITE
84	12	YELLOW
89	18	WHITE

WIRE NO#	AWG	COLOR
1A	10	RED
1C	10	RED
1E	18	RED
16	12	RED
2	10	BROWN
3	18	ORANGE
4	18	YELLOW
5	18	GREEN
6	18	BLUE
7	18	PURPLE
8	18	GRAY
8A	18	GRAY
9	18	WHITE
10	12	TAN
11	18	PINK
12	10	BROWN
13	16	BLACK
13A	10	BLACK
13B	10	BLACK
13C	12	BLACK
13E	18	BLACK
13F	18	BLACK
13G	18	BLACK
13H	18	BLACK
13J	18	BLACK
13K	18	BLACK
13L	10	BLACK
13M	18	BLACK
13N	18	BLACK
13P	18	BLACK
13R	14	BLACK
14	18	YELLOW
16	18	BLUE
16A	18	BLUE
17	18	PURPLE
17A	18	PURPLE
19	12	WHITE
20	12	TAN
21	18	PINK
22	10	BROWN
23	18	ORANGE
24	18	YELLOW
25	18	GREEN
26	18	BLUE
27	18	PURPLE

	Ref.	Part No.	Serial Number	Description	Qty.
▽	1	1048405	(10000000- 20000000)	Harness, Main [Ss5]	1
▲	2	762516	(10000000- 20000000)	Fuse, Blade, 030a, 32vdc	1
▲	3	222290	(10000000- 20000000)	Diode, Ele, Plug	3

▽ ASSEMBLY
▲ INCLUDED IN ASSEMBLY

WAND PUMP KIT



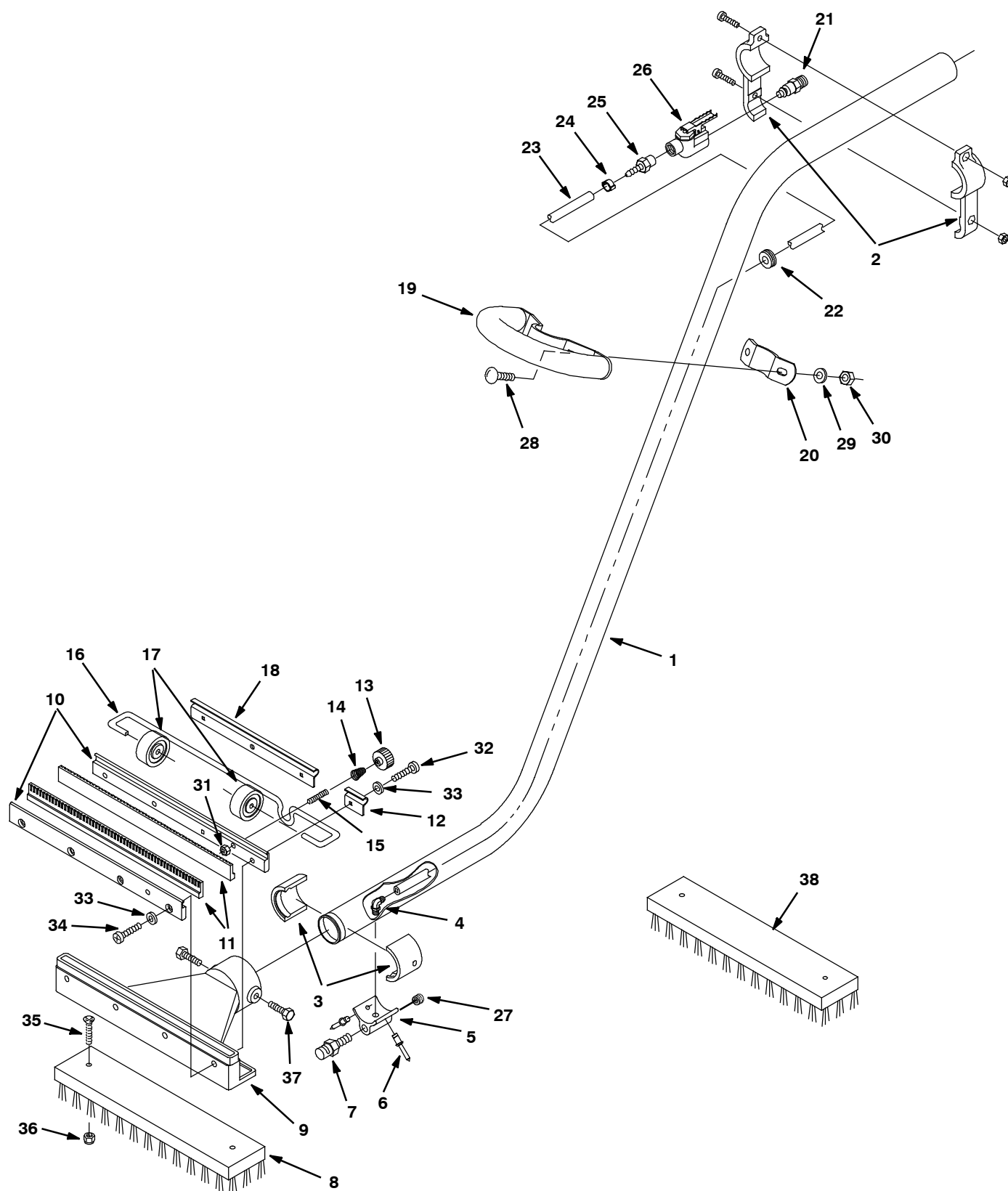
WAND PUMP KIT

	Ref.	Part No.	Serial Number	Description	Qty.
▽		9003399	(10000000- 20000000)	Pump Kit, Wand, Power, Ci [Ss5, T5e]	1
▲	1	608292	(10000000- 20000000)	Connection, Quick, Fem .375" X .25" Npt	1
▲	2	78122	(10000000- 20000000)	Fitting, Brs, Str, Pf04/Pf04, Bh	1
▲	3	150516	(10000000- 20000000)	Fitting, Brs, Str, Pm04/Bm06	1
▲	4	54333	(10000000- 20000000)	Clamp, Hose, Wormdrive, 0.31- 0.88d, .31w	4
▲	5	575501000	(10000000- 20000000)	Hose 3/8idx5/8odx8" (376720)	1
▲	6	1034731	(10000000- 20000000)	Screw, Hex, M6 X 1.00 X 16, Ss, Sems	2
▲	7	130773	(10000000- 20000000)	Tie, Cable, Nyl, 11.0l, .14w, 3.0 Max. D	2
▲	8	605064	(10000000- 20000000)	Cap, Vinyl, 1.38 D 1.6l	1
▲	9	630136	(10000000- 20000000)	Pump, Soltn, Ele, 24vdc, 3116" Term 3/4"	1
▲	10	1023515	(10000000- 20000000)	Bracket, Mtg, Pump, Wand	1
▲	11	150017	(10000000- 20000000)	Fitting, Brs, Str, Pf08/Pf12, Cplg[Redr]	1
▲	12	1023581	(10000000- 20000000)	Fitting, Plstc, Str, Bm08/Pm08, Nyl	1
▲	13	607776	(10000000- 20000000)	Clamp, Hose, Wir, .73 - .77, Silver	2
▲	14	613521	(10000000- 20000000)	Hose, Pvc, Clr, 0.50id 0.75od 012.0l	1
▲	15	1015486	(10000000- 20000000)	Fitting, Plstc, Tee, Bm08/Bm10/Bm10, Br	1
▲	16	130787	(10000000- 20000000)	Switch, Rocker, Spdt	1
▲	N/S	1026870	(10000000- 20000000)	Harness, Wand	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

DELUXE POWER WAND GROUP



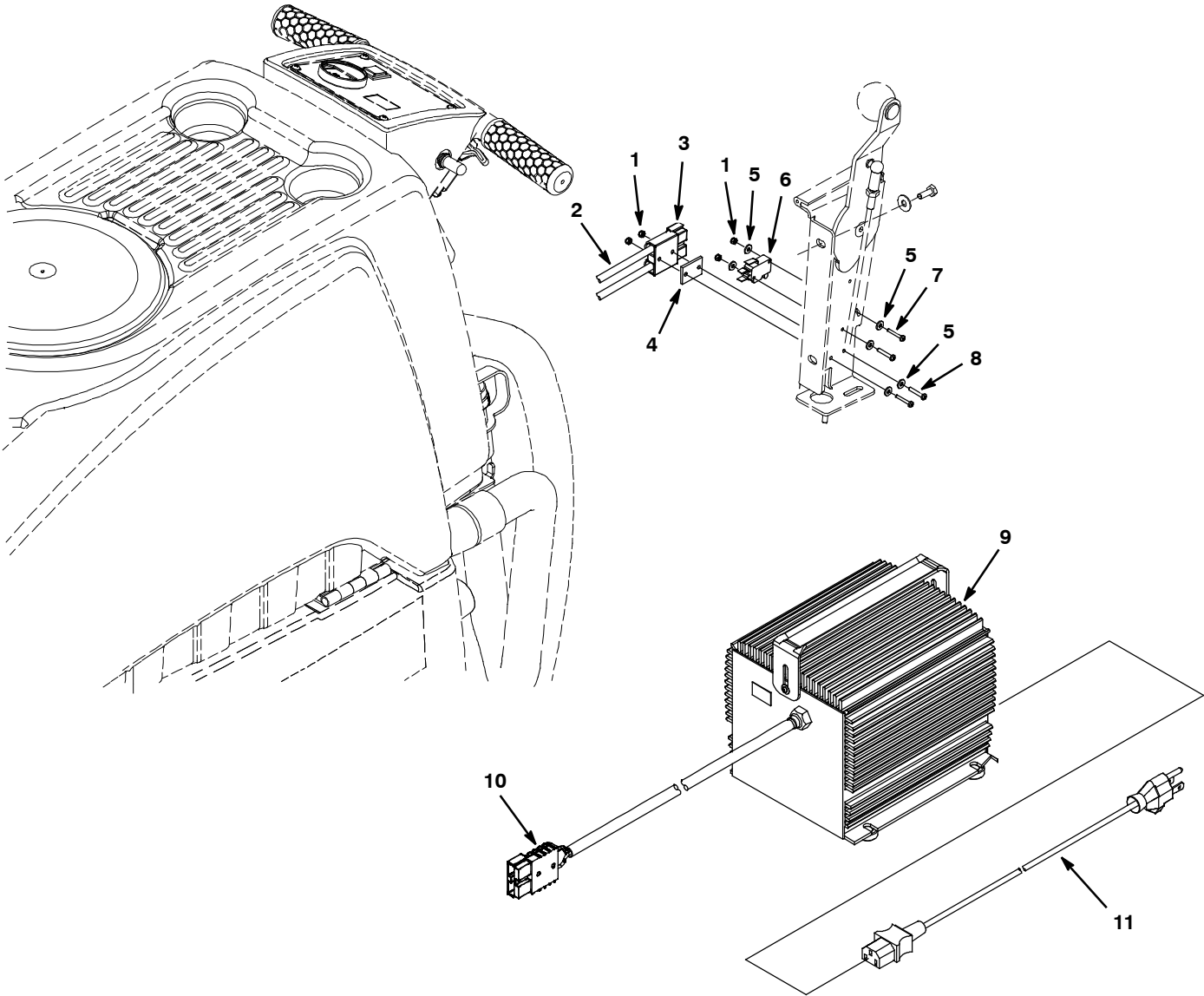
DELUXE POWER WAND GROUP

	Ref.	Part No.	Serial Number	Description	Qty.
▽		65340	(10000000- 20000000)	Wand Assy, Power	1
▲	1	578060000	(10000000- 20000000)	Wand, Dbl Bend, 38.1mmd	1
▲	2	578077000	(10000000- 20000000)	Bracket Valve Mounting Wand	1
▲	3	578061000	(10000000- 20000000)	Adapter, Head / Wand	2
▲	4	1037595	(10000000- 20000000)	Fitting, Plstc, E90, Bm04/Pm02, Nyl	1
▲	5	579112	(10000000- 20000000)	Fitting Spray Nozzle Adapter	1
▲	6	602036000	(10000000- 20000000)	Rivet, Blind	2
▲	7	578066000	(10000000- 20000000)	Fitting, Brs, Tip [75, .125k- Jet]	1
▲	8	65610	(10000000- 20000000)	Brush, Power Wand, W/ Fastener, Pyp	1
▲	9	578063000	(10000000- 20000000)	Head, Wand	1
▲	10	578078000	(10000000- 20000000)	Retainer, Sqge, Wand	2
▲	11	578074000	(10000000- 20000000)	Blade, Sqge, 300.8mmml, Wand	2
▲	12	578124000	(10000000- 20000000)	Bracket,Axle,1hole	1
▲	13	578439	(10000000- 20000000)	Nut, Thumb, M6 X 1.0, 30d	1
▲	14	613732	(10000000- 20000000)	Spring, Cmpr, Conical 15mm	1
▲	15	578143000	(10000000- 20000000)	Screw, Set, M6 X 1.0 X 40, Cuppt, Ss	1
▲	16	578126000	(10000000- 20000000)	Axle,Wand	1
▲	17	578125000	(10000000- 20000000)	Wheel, 41.3d, 19.1w, Rbr	2
▲	18	578123000	(10000000- 20000000)	Bracket,Axle,3hole	1
▲	19	578155000	(10000000- 20000000)	Handle Wldt, Wand	1
▲	20	578154000	(10000000- 20000000)	Bracket Handle Wand	1
▲	21	578091000	(10000000- 20000000)	Fitting, Brs, Qdc, Pm04, Plug	1
▲	22	578164000	(10000000- 20000000)	Grommet,0.38"Id,0.62"Gd,.06"Gw	1
▲	23	578821000	(10000000- 20000000)	Hose 1/4id X 3/8od X 1.22m	1
▲	24	578161000	(10000000- 20000000)	Clamp, Hose, Ear, 8- 11mm, Ss	1
▲	25	578094000	(10000000- 20000000)	Fitting, Nyl, Str, Pm04/Bm04	1
▲	26	578064000	(10000000- 20000000)	Valve, Cntrl, Water	1
▲	27	150208	(10000000- 20000000)	Fitting, Brs, Str, Pm02, Plug [Skhd]	1
▲	28	20399	(10000000- 20000000)	Bolt, Carriage, .25- 20 X 0.75	2
▲	29	200304017	(10000000- 20000000)	Washer, Flat, M6.4 X 13 X 1.6, Pl	2
▲	30	41169	(10000000- 20000000)	Nut, Hex, Lock, .25- 20, NI, Ss	2
▲	31	07785	(10000000- 20000000)	Nut, Hex, Std, M6 X 1.0, A2, Ss	1
▲	32	1026454	(10000000- 20000000)	Screw, Pan, M5 X 0.8 X 10, Ss	4
▲	33	07514	(10000000- 20000000)	Washer, Lock, Int, #10, Ss	8
▲	34	578144000	(10000000- 20000000)	Screw, Pan, M5 X 0.8 X 16,Phl,Ss,Dn7985a	4
▲	35	578566	(10000000- 20000000)	Screw 4x30 Fltphl Ss	2
▲	36	33932	(10000000- 20000000)	Nut, Hex, Lock, M4 X 0.7, NI, Ss	2
▲	37	140885	(10000000- 20000000)	Screw, Trs, .25- 20 X 0.50, Phl, Ss	2
▲	38	65582	(10000000- 20000000)	Brush, Power Wand, W/ Fastener, Abr (Optional)	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

OFF-BOARD CHARGER GROUP



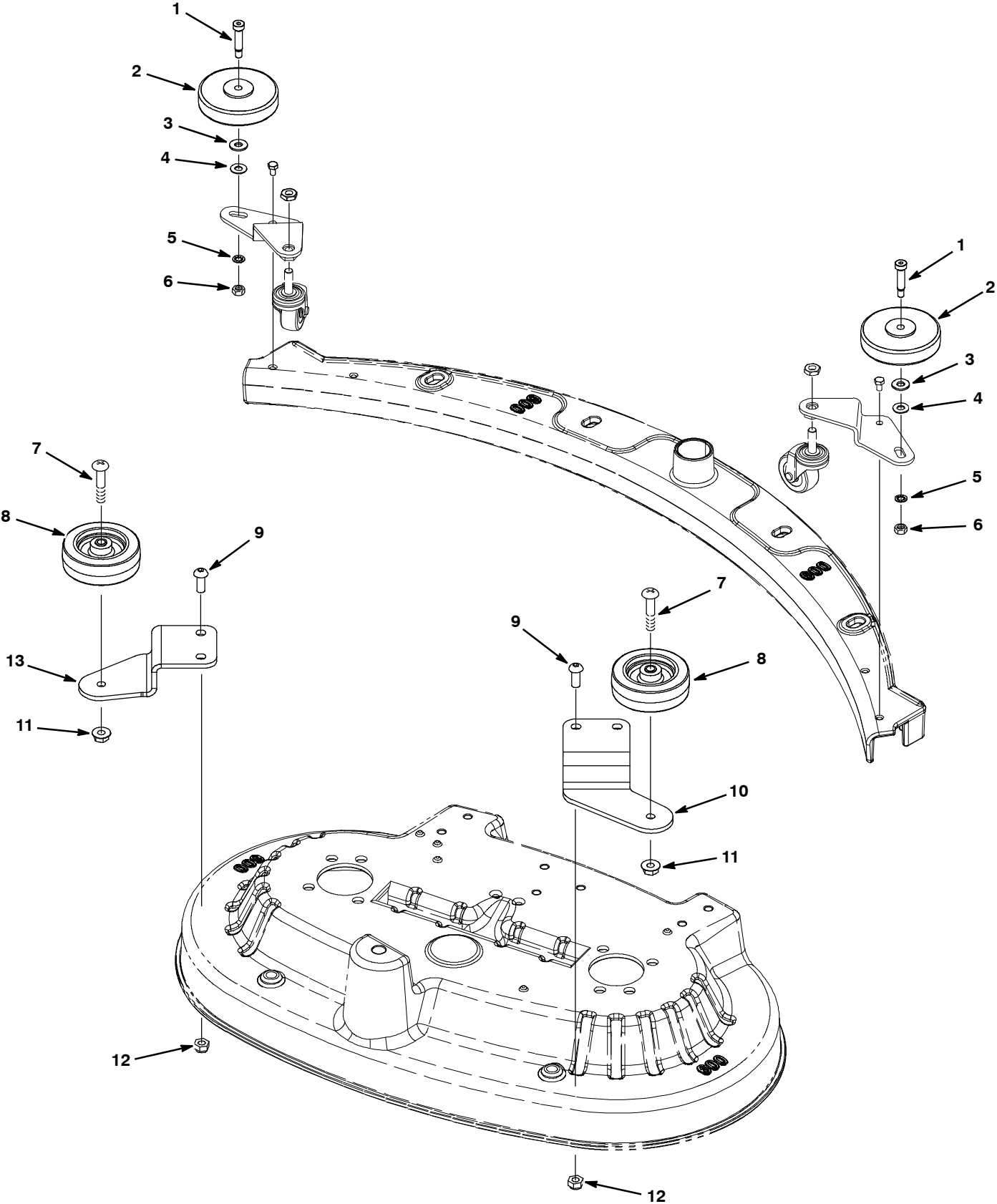
OFF- BOARD CHARGER GROUP

	Ref.	Part No.	Serial Number	Description	Qty.
	1	579211	(10000000- 20000000)	Nut, Hex, Lock, M3 X .5, Ss	4
▽	2	1027096	(10000000- 20000000)	Harness, Chrgr	1
▲	3	605387	(10000000- 20000000)	Connector, 50a, Red W/O Contact[Anderson	1
	4	603331	(10000000- 20000000)	Spacer, Chrgr Plug	1
	5	41578	(10000000- 20000000)	Washer, Flat, #06, Ss	6
	6	611005	(10000000- 20000000)	Switch, Rlr, 16a, Micro	1
	7	06922	(10000000- 20000000)	Screw, Pan, M3 X 0.5 X 20, 4.8	2
	8	33933	(10000000- 20000000)	Screw, Pan, M3 X 0.5 X 25, Ss	2
▽	9	1029256	(10000000- 20000000)	Charger, 24vdc, 19a Var Vac 1ph 50/60hz	1
▲	10	605387	(10000000- 20000000)	Connector, Anderson, 50a,Red W/O Contact	1
▲	11	1017079	(10000000- 20000000)	Cord, Extn, 16ga /3, 010ft [Sjt]	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

BUMPER WHEEL KIT



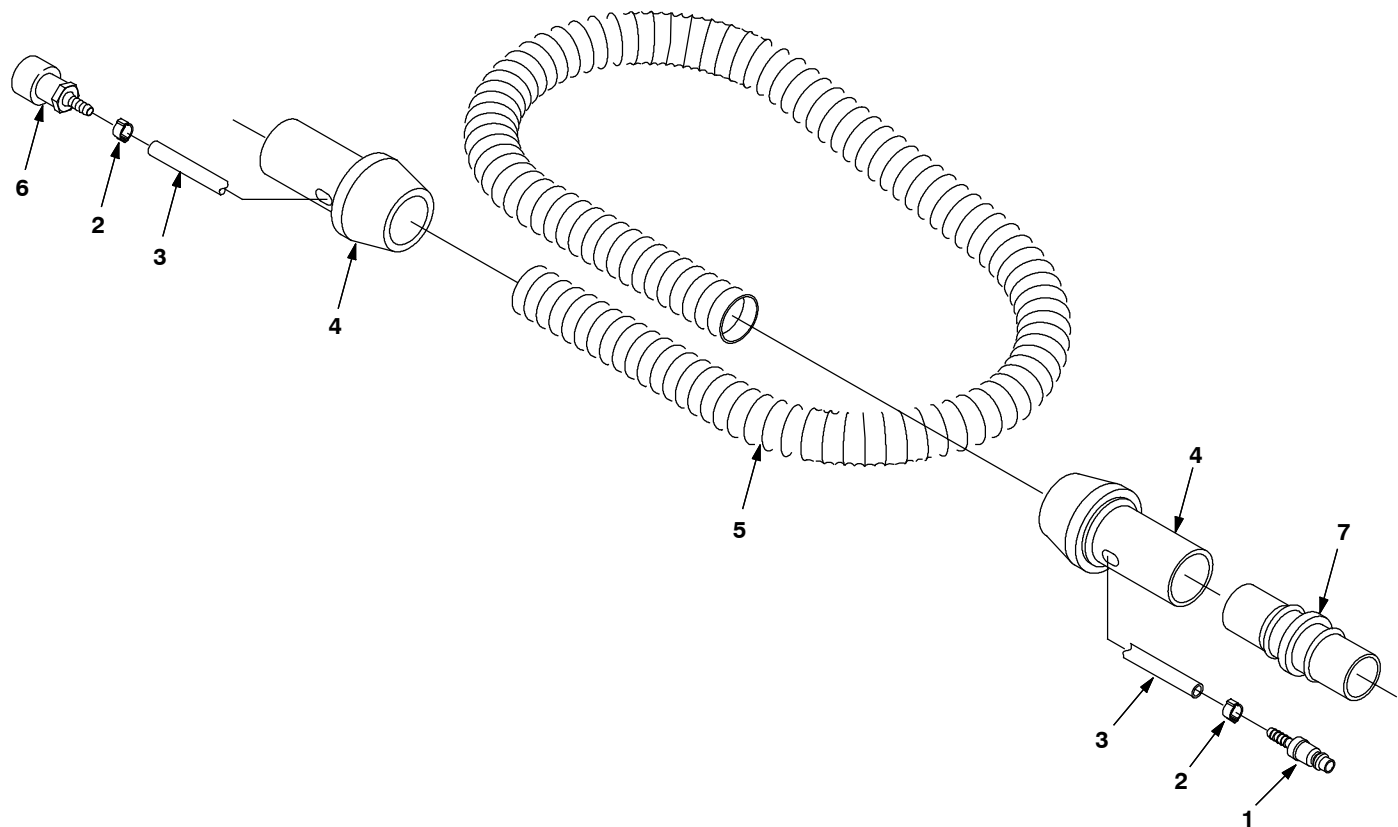
BUMPER WHEEL KIT

	Ref.	Part No.	Serial Number	Description	Qty.
▽		9004459	(10000000- 20000000)	Wheel Kit, Bumper, Retrofit [T5]	1
▲	1	600187	(10000000- 20000000)	Bolt, Shld, .38d X 1.25, .31- 18	2
▲	2	614317	(10000000- 20000000)	Wheel, 04.0d 1.00w 0.38b, Rbr, Gray	2
▲	3	01685	(10000000- 20000000)	Washer, Flat, 0.38b 0.88d .08, Ss	2
▲	4	069762311	(10000000- 20000000)	Washer, Flat, M7.9b X 19d X 1.7 Ss	2
▲	5	43952	(10000000- 20000000)	Washer, Lock, Int, 0.31, Ss	2
▲	6	140506	(10000000- 20000000)	Nut, Hex, Std, .31- 18, Ss	2
▲	7	606983	(10000000- 20000000)	Screw, Trs, M8 X 1.25 X 40, Phl, Pl	2
▲	8	1014918	(10000000- 20000000)	Wheel, 03.0d 0.88w 0.31b, W/ Bshg, Rbr	2
▲	9	393135	(10000000- 20000000)	Screw, Btn, M8 X 1.25 X 20, Blk	4
▲	10	1023268	(10000000- 20000000)	Bracket, Roller, Wall, Scb Head, 70cm	1
▲	11	07791	(10000000- 20000000)	Nut, Hex, Flng, M8 X 1.25	2
▲	12	08713	(10000000- 20000000)	Nut, Hex, Lock, M8 X 1.25, NI, Ss	4
▲	13	1022344	(10000000- 20000000)	Bracket, Roller, Wall, Scb Head, 60cm	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

POWER WAND HOSE GROUP

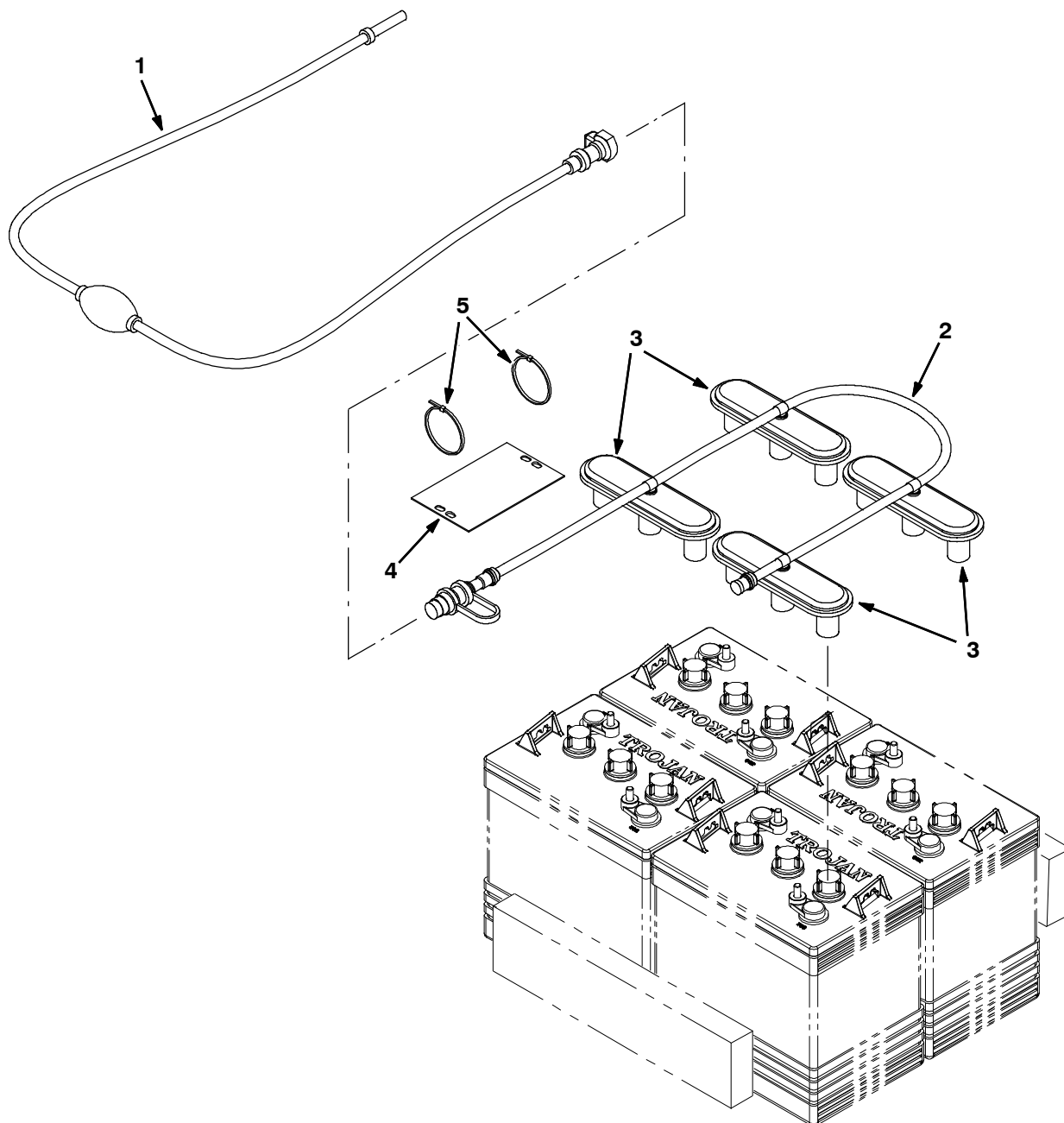


Ref.	Part No.	Serial Number	Description	Qty.
▽	65341	(10000000- 20000000)	Hose Assy, Wand, Power	1
▲ 1	578318000	(10000000- 20000000)	Fitting, Stl, Qdc, Bm04	1
▲ 2	578160000	(10000000- 20000000)	Clamp, Hose, Ear, 11- 13mm, Ss	2
▲ 3	578820000	(10000000- 20000000)	Hose, Pvc, 0.25id X 157l	1
▲ 4	578072000	(10000000- 20000000)	Cuff, Swivel, 1.5 Blk	2
▲ 5	1052212	(10000000- 20000000)	Hose, Vacuum, 1.50id X 10ft, Gray	1
▲ 6	578071000	(10000000- 20000000)	Fitting, Brs, Qdc, Bm04/Pf04	1
7	12694	(10000000- 20000000)	Fitting, Plstc, Str, Bm24/Bm24	1

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

HYDROLINK® BATTERY WATERING SYSTEM KIT



Ref.	Part No.	Serial Number	Description	Qty.
▽	9010300	(10000000- 20000000)	Watering Kit, Battery, 24vdc, Ci [Trojan]	1
▲	1	1058939	(10000000- 20000000) Kit, Pump, Fill, Battery	1
▲	2	1070394	(10000000- 20000000) Hose Kit, Battery, 24vdc [J305h Snake]	1
▲	3	1204142	(10000000- 20000000) Cap, Watering, 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

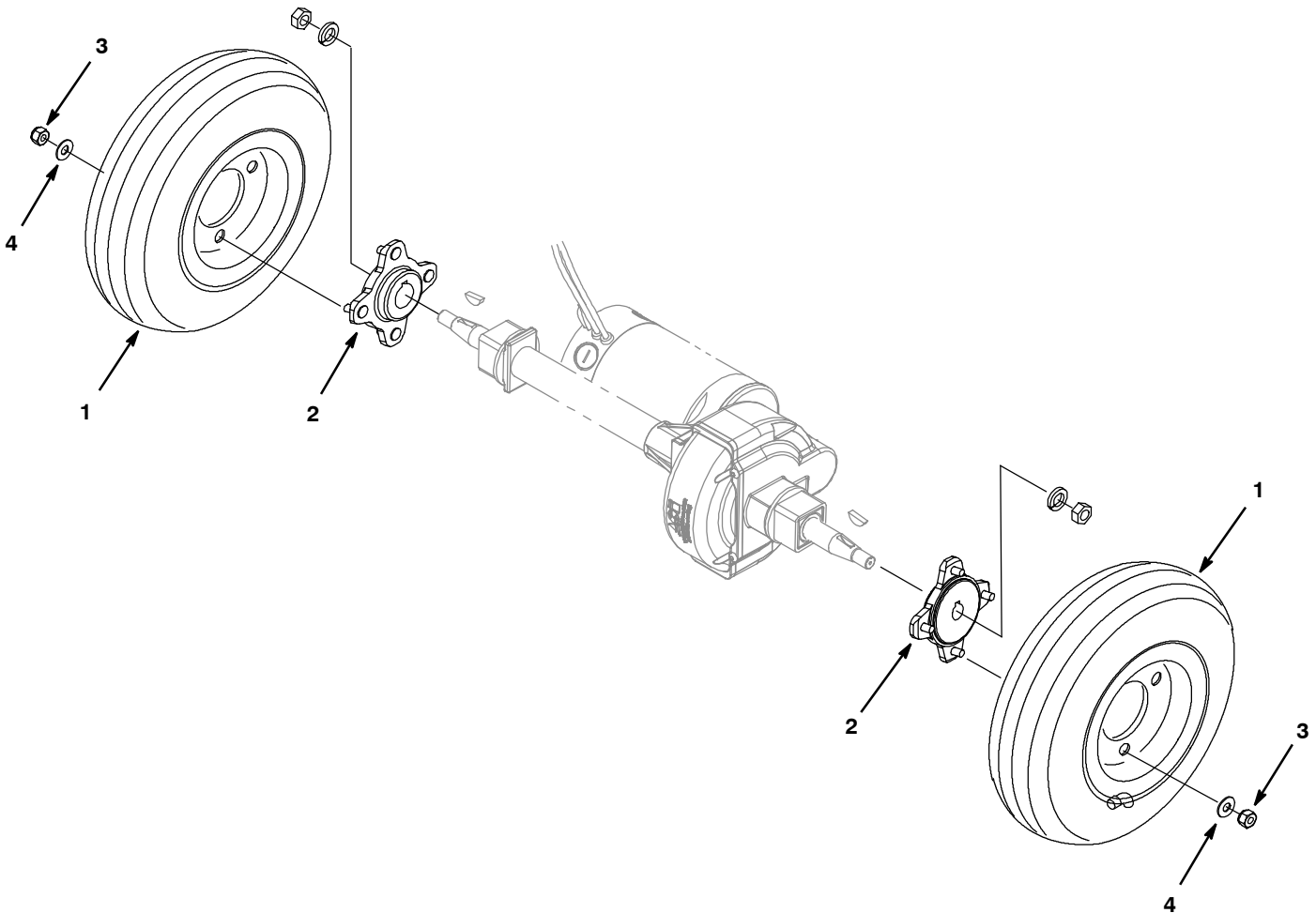
▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

*THIS KIT IS INTENDED FOR USE WITH TROJAN® LEAD ACID BATTERIES ONLY.

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OPTIONAL WHEEL KIT



Ref.	Part No.	Serial Number	Description	Qty.
▽	9004903	(10000000- 20000000)	Wheel Kit, Pneumatic, Ci [T5 T5e Ss5]	1
▲ 1	1059452	(10000000- 20000000)	Tire Assy, Pneu, Grey, 2.8/2.5- 04 2.75bc	2
▲ 2	1048125	(10000000- 20000000)	Hub, Wheel [Tapered Shaft]	2
▲ 3	08712	(10000000- 20000000)	Nut, Hex, Lock, M6 X 1.00, NI, Ss	8
▲ 4	140000	(10000000- 20000000)	Washer, Flat, 0.28b 0.62d .04, Ss	8
▽	9004904	(10000000- 20000000)	Wheel Kit, Foam Filled, Ci [T5 T5e Ss5]	1
▲ 1	1068472	(10000000- 20000000)	Tire Assy, Foam, Hi- Dns, Grey,2.8/2.5- 04	2
▲ 2	1048125	(10000000- 20000000)	Hub, Wheel [Tapered Shaft]	2
▲ 3	08712	(10000000- 20000000)	Nut, Hex, Lock, M6 X 1.00, NI, Ss	8
▲ 4	140000	(10000000- 20000000)	Washer, Flat, 0.28b 0.62d .04, Ss	8

▽ ASSEMBLY

▲ INCLUDED IN ASSEMBLY

