



## Electronic Service Manuals

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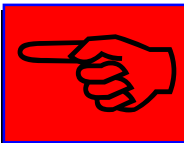
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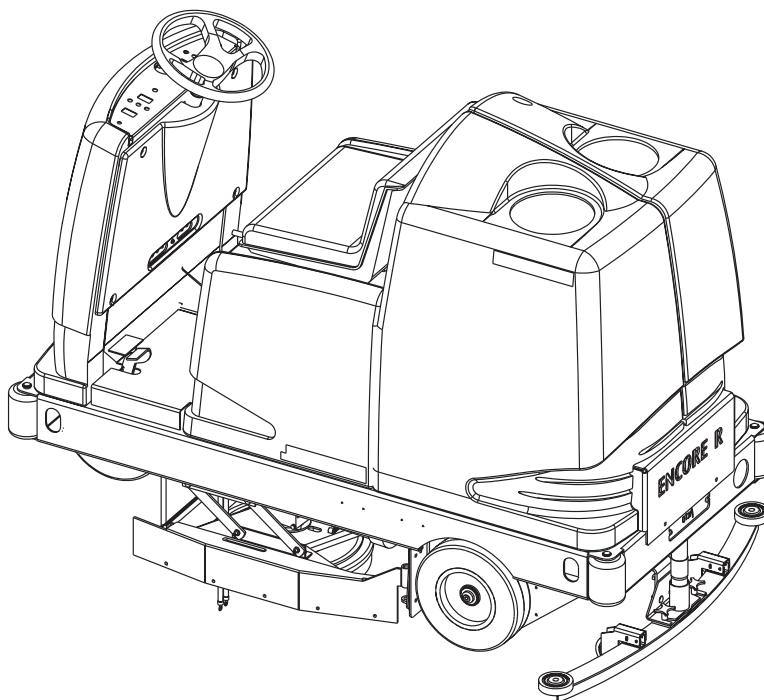
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## AMERICAN-LINCOLN TECHNOLOGY

Operator's  
Manual



ENCORE R  
SCRUBBER

Beginning with Serial No. 178575

**READ THIS BOOK!**

This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating or attempting any service or maintenance procedure to your machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. If you or your operator (s) cannot read English, have this manual fully explained before attempting to operate this machine.

Si Ud. o sus operadores no pueden leer el Inglés, se hacen explicar este manual completamente antes de tratar el manejo o servicio de esta máquina.

All directions given in this book are as seen from the operator's position at the rear of the machine.

For new books, write to: Alto U.S., Inc., 1100 Haskins Road, Bowling Green, Ohio 43402.

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**SPECIFICATION FOR THE ENCORE R 34" AND 38"****POWER SUPPLY**

|                |                                               |
|----------------|-----------------------------------------------|
| Encore R (34") | 36 volt (3-12 volt batteries) 228 AH          |
| Encore R (38") | 36 volt (6-6 volt batteries) 340 AH or 370 AH |

**CHARGER**

|                      |                                              |
|----------------------|----------------------------------------------|
| Encore R (34" & 38") | 36 Volt output, 115V/60Hz or 230V/50Hz Input |
|----------------------|----------------------------------------------|

**MOTORS, VACUUM**

1 HP. (.74 kw), 3 stage, tangential discharge

**MOTORS, BRUSH**

1.5 hp (1.11kw)

**MOTOR, DRIVE**

1.5 hp (1.11kw)

**WHEELS**

(1) Front 12.0" (31.75 cm) (2) rear 12.0" (31.75 cm)

**BRUSH SIZE**

|                |                       |
|----------------|-----------------------|
| Encore R (34") | 2-17" (43.18 cm) DIA. |
| Encore R (38") | 2-19" (48.26 cm) DIA. |

**CLEANING PATH**

|                 |                |
|-----------------|----------------|
| Encore R (34 ") | 34"(86.36 cm)  |
| Encore R (38")  | 38" (96.52 cm) |

**BRUSH SPEED**

300 RPM

**SOLUTION TANK**

45 gallon (171 liter)

**RECOVERY TANK**

45 gallon (171 liter)

**SPEED, TRANSPORT**

5 MPH

**SPEED, SCRUBBING**

3.5 MPH

**TURN RADIUS**

56" (142.24 cm)

**U-TURN AISLE WIDTH**

80" (203.2 cm)

**CLEANING RATE**

|                |                                 |
|----------------|---------------------------------|
| Encore R (34") | 37000 sq. ft/hr (3426 sq. m/hr) |
| Encore R (38") | 42000 sq. ft/hr (3901 sq. m/hr) |

**GRADE CLEANING**

3°

**GRADE TRANSPORT**

6°

**LENGTH**

71.5" (181.61 cm)

**WIDTH**

|                        |                  |
|------------------------|------------------|
| Encore R (34") Machine | 33.5" (85 cm)    |
| Brush Housings         | 38.0" (96.52 cm) |
| Squeegee               | 42.0" (106.68cm) |

## SPECIFICATIONS

---

|                |                |                   |
|----------------|----------------|-------------------|
| Encore R (38") | Machine        | 33.5" (85 cm)     |
|                | Brush Housings | 41.0" (104.14 cm) |
|                | Squeegee       | 42.0" (106.68 cm) |

**HEIGHT** 51" (129.54 cm)

**HEIGHT W/OHG** 80" (203.2 cm)

### WEIGHT

|                |                      |
|----------------|----------------------|
| Encore R (34") | 1800 lb. (817.25 kg) |
| Encore R (38") | 1820 lb. (826.33 kg) |

### WARRANTY

|                |                     |
|----------------|---------------------|
| Machine        | 2 year              |
| Polydur® tanks | 8 years             |
| Batteries      | 18 months, prorated |

### **WARNINGS**

THE FOLLOWING STATEMENTS ARE USED THROUGHOUT THIS MANUAL AS INDICATED IN THEIR DESCRIPTIONS

#### **DANGER**

To warn of immediate hazards which will result in severe personal injury or death.

#### **WARNING**

To warn of hazard or unsafe practices which could result in severe personal injury.

#### **CAUTION**

To warn of hazards or unsafe practices which could result in minor personal injury.

#### **ATTENTION**

To warn of unsafe practices which could result in extensive equipment damage.

#### **NOTE**

To give important information or to warn of unsafe practices which could result in equipment damage.

Read this manual carefully. The following information signals potentially dangerous conditions to the operator or equipment. Know when these conditions can exist then, take necessary steps to train machine operating personnel.

For the safe operation of this machine, read and understand all WARNINGS, CAUTIONS AND NOTES.

Water solutions or cleaning materials used with this type of machine can leave wet areas on the floor surface. These areas can cause a dangerous condition for the operator or other persons. Always put CAUTION signs near the area you are cleaning.

DO NOT put gasoline, combustible or flammable material in the solution or recovery tanks.

DO NOT operate the machine near flammable materials and vapors, it can ignite and cause an explosion. Do not use with or near flammable materials such as: gasoline, grain dust, solvents and thinners. Only use a cleaning concentrate recommended by the chemical manufacturer.

Improper use of heavy machinery can cause personal injury. Operate only when lids, doors, and access panels are securely closed.

Use care when reversing machine in confined area.

Unplug the battery first to prevent possible injury when servicing a machine.

When working with the machine on its side, empty tanks, remove batteries, clear area of people and obstructions, and use additional people and proper procedures when lighting the machine.

Always empty the solution tank and recovery tank before doing maintenance.

You must have training in the operation of this machine before using it. READ THE OPERATORS MANUAL. Do not operate this machine unless it is completely assembled.

Do not use this machine as a step or furniture.

Be careful when operating the machine on a ramp or incline. Do not operate machine on incline greater than 6° or longer than 100'. Always move slowly on a ramp. Do not turn this machine on a ramp. Do not stop and leave this machine on a ramp.

Always stop the machine on a level surface, put the power switch in the "O" position. Engage the parking brake.

To prevent injury, and damage to the machine, do not lift the machine or move it to an edge of a stair or loading dock.

## **SAFETY PRECAUTIONS**

---

Lead acid batteries generate gases, which can cause an explosion. Keep sparks and flames away from batteries. NO SMOKING. Charge batteries only in area with good ventilation.

Always wear eye protection and protective clothing when working near batteries. Remove all jewelry. Do not put tools or other metal objects across the battery terminals, or the tops of batteries.

Maintenance and repairs must be done by authorized personnel only. Tighten all fasteners. Keep adjustments according to the specifications given in the operator's manual for the machine. Keep the electrical parts of the machine dry. For storage, keep the machine in a building.

Make sure that all labels, decals, warnings, cautions and instructions are fastened to the machine. Get new labels and decals from American-Lincoln.

Your ENCORE R battery machine has been shipped complete, but do not attempt to operate without reading the following instructions:



C1836

FIGURE 1

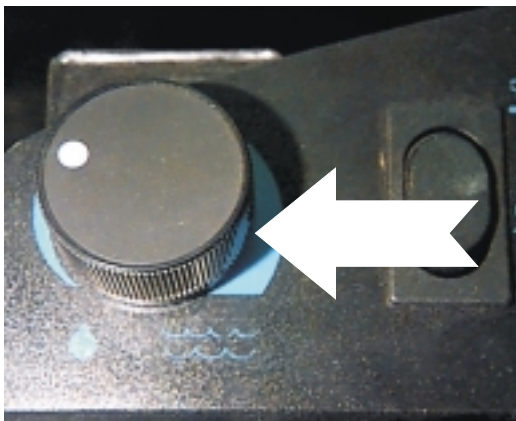
Your ENCORE R battery machine has been shipped complete, but do not attempt to operate without reading the following instructions:

1. Uncrate machine
2. Install scrub brushes, as outlined in the Maintenance section of this manual.
3. Install batteries as follows
  - A. Turn the key to the "O" position
  - B. Lift the hinged seat and cover, then engage safety arm.
  - C. Use a battery lifting device with a 150 LB. (68KG) capacity to place the batteries in the battery compartment.
  - D. Install Battery wires, as shown on page 1-23
  - E. Plug the polarized connector from the battery on into the 36 Volt plug provided.
  - F. Lower seat and cover assembly.



### WARNING

Hydrogen gas is formed during the charging operation and is explosive. Only charge batteries in a well ventilated area with the lid open. Avoid any smoking, open flame, or electrical sparks. Pulling out the charger plug, with the timer on, will cause an arc and must be avoided.



C1879 FIGURE 2

### **SOLUTION CONTROL KNOB - (See Figure 1)**

The solution control knob is located to the left-hand side of the steering wheel. Turning the knob clockwise will increase the flow of solution and water. The farther the solution control knob is turned the heavier the flow of water and solution will be. Turning the knob counter clockwise will decrease the flow of the solution and water. To turn the water and solution off, turn the knob all the way counter-clockwise.



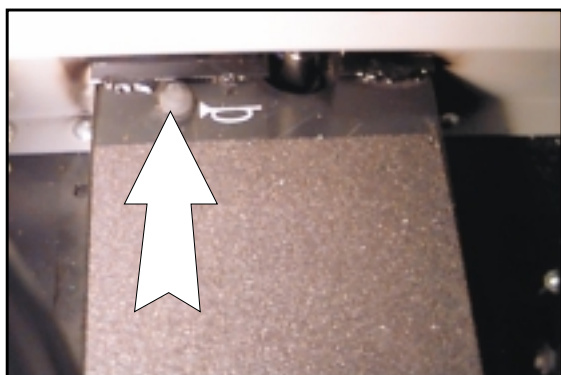
C1839 FIGURE 3

### **BATTERY CONDITION METER - (See Figure 2)**

The meter shows the condition of the battery, while the machine is running, under load. When battery voltage falls below 31.5 volts for longer than 60 seconds, the low voltage light will come on. Also the Brush/Water solenoids will be locked out regardless of the previous conditions or commands. This is a permanent lockout until power is turned off to module. The low voltage lock out can be reset almost immediately by turning off all power to the module for 3-5 seconds. Upon reapplying power, the lockout will be off and will have to go through the 60 second delay before again locking-out the Brush/Water solenoid. In a permanent low-battery-voltage-condition, the machine can be functional only for one-minute periods, and then only by repeating the Ignition - "O" reset routine.

#### **NOTE**

**Continual discharge of the battery below the "Red Zone" will shorten battery life.**



C1840 FIGURE 4

### **HORN BUTTON - (See Figure 3)**

The horn button is located on the floor of the ENCORE R operator's compartment to the left of the pedals.

### **Light Switch (OPTION)**

The light switch will activate any of the light options. The switch is active at all times.

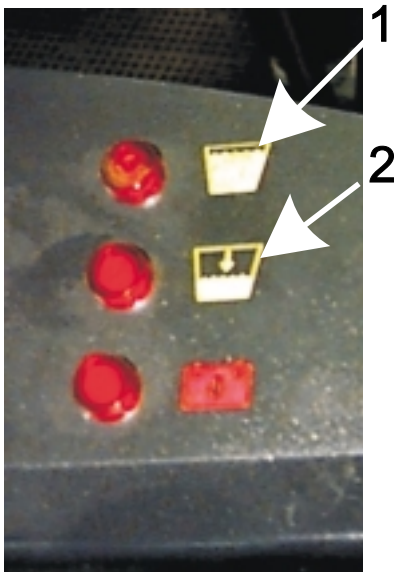


C1880

FIGURE 5

## **SQUEEGEE BLADE SWITCH (See Figure 4)**

The squeegee blade switch is located on the console to the left of the steering wheel. Pressing the squeegee switch in the forward position turns the vacuum-motor off and the squeegee blades are up. When the switch is in the middle, the vacuum motor is on and the squeegee blade is down. Pressing the squeegee switch in the downward position, will raise the blade and keep the vacuum on.



C1878

FIGURE 6

## **HIGH RECOVERY LIGHT - (See Figure 5)**

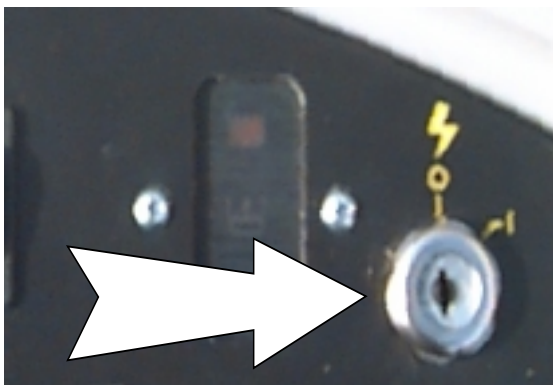
The High Recovery Warning Light is located on the console. The recovery warning light will illuminate and stay on approximately five minutes before the recovery tank is full, giving ample time to complete the scrubbing cycle before the mechanical float shuts off the vacuum to the recovery tank.

## **LOW SOLUTION LIGHT - (See Figure 5)**

The Low Solution Warning Light is located on the console. The Solution Warning Light will illuminate when the solution tank is empty, marking the end of the scrubbing cycle.

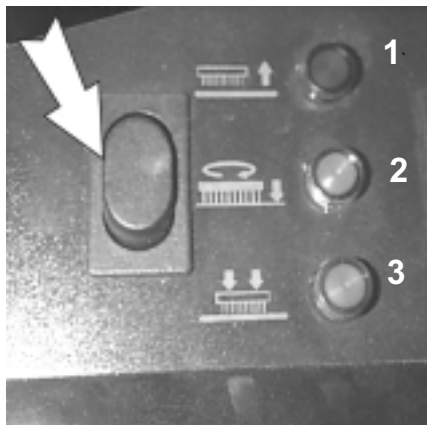
## **KEY SWITCH - (See Figure 6)**

The Key Switch turned to the right, the "I" position, will activate all machine systems. The optional lights can be activated in the "O" position.



C1843

FIGURE 7



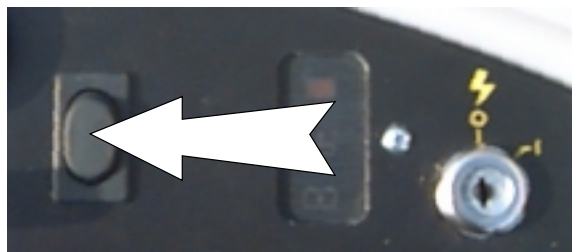
C1837 FIGURE 8

### SCRUB BRUSH SWITCH - (See Figure 7)

The Scrub Brush Switch is located to the far left of the steering wheel on the control panel. The Scrub Brush indicator lights are located to the left of the Scrub Brush switch.

With brushes up & the key switch is turned on the red indicator will automatically be on. This indicates that the scrub brushes are in the up position. Press and hold the scrub brush switch down until the yellow indicator light illuminates. This indicates that the scrub brushes are in the normal scrub position. Press and hold the scrub brush switch down until the green indicator light illuminates. This indicates that the scrub brushes are in the heavy scrub position. The lights will flash between the three positions.

To raise the scrub brushes press and hold forward the Scrub Brush Switch until the red indicator light is illuminated.



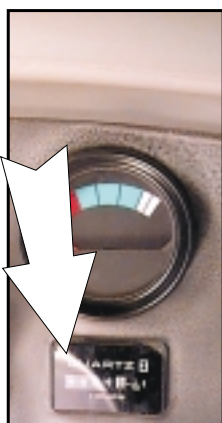
C1845 FIGURE 9

### ESP OPTION - (See Figure 8)

The ESP Option transfers water from the recovery tank through a filter and into the solution tank. When the switch is in the "on" position the pump should operate when the High Recovery light is illuminated. Clean the filter in the recovery tank whenever the tank is emptied.

#### NOTE

**Do not place clean water in the recovery tank when using the ESP option, the solution tank could become overfilled during operation.**



C1847 FIGURE 10

### HOURLY METER - (See Figure 9)

The hour meter is activated when the key switch is in the "on" position. The meter indicates the time, in Hours that the machine has been operated. This is useful for determining service intervals.



FIGURE 11

### PRE SWEEP OPTION

#### Operation

The sweeper is designed to turn the broom on as it is lowered. To lower the broom release hand lever on right side. To remove the hopper, grasp each end of the hopper and lift it up and out of the frame.

#### Adjustment

The main broom on this sweeper is free floating and has no adjustment for wear. If your broom pattern is wide on one side, place the broom in the down position, turn the key off and loosen the mounting bolt on the left end of the broom, then retighten.

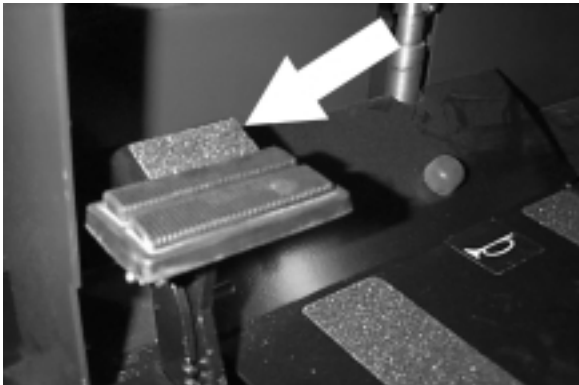
Replace the main broom when it is either worn or damaged. To replace the main broom: first remove the hopper. Then remove the idler screw, through the hole in the frame. Remove the idler bracket then pull the broom off the drive and out the hopper opening.

#### Adjustment Side Broom

Adjust side flaps so they clear the ground by 1/16 of an inch. As the side broom wears, adjustment is required to keep proper broom pattern on the floor. Remove the hopper and loosen the stop at lower right hand side, reposition and tighten.

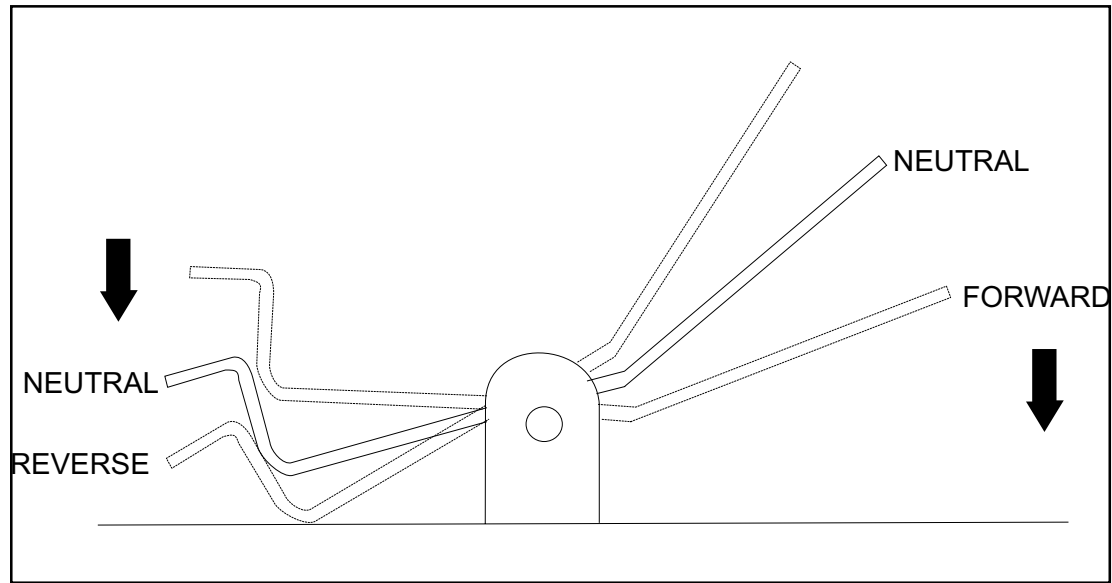
### BRAKE - (See Figure 10)

Never leave operator's seat without engaging the parking brake. The parking brake is used on the rear wheels of the mechanical system and is located on the floor of the machine left of the directional control pedal. To set parking brake, press foot pedal to set lock. To unlock the parking brake, push the upper portion of the brake pedal. The foot brake is not a method for slowing machine travel or for stopping under normal conditions. This is accomplished with the accelerator and directional control pedal.



C1848

FIGURE 12



### **ACCELERATOR and DIRECTIONAL CONTROL PEDAL - (See Figure 11)**

The Accelerator and Directional Control Pedal is located on the floor of the operator's area. This pedal controls the machine direction and travel speed. If the machine stops due to an electrical system overload in the power panel controller, place the forward/reverse pedal in neutral to reset the controller.

1. Put foot pressure on the upper portion of the pedal. The machine will move forward.
2. Increase the foot pressure on the upper portion of the pedal to increase the forward speed.
3. Put foot pressure on the lower portion of the pedal. The machine will move in reverse.
4. Increase the foot pressure on the lower portion of the pedal to increase the reverse speed.
5. To stop the machine,
  - A. Allow directional control pedal to return to neutral (center position). Pedal will automatically return to neutral when foot pedal is released. Neutral braking will engage to slow down the machine.
  - B. If neutral braking does not engage or disengages after slowing the machine to a crawl, reset the neutral brake by briefly depressing the accelerator and directional control pedal according to the direction of travel. If the machine is moving forward, briefly depress the upper portion of the pedal. If the machine is moving in reverse, briefly depress the lower portion of the pedal.



C1851

FIGURE 14

### SEAT ADJUSTMENT- (See Figure 12)

This lever is located on front of the seat and allows the seat to be adjusted.

#### Note

Before starting, perform the pre-start checks.

### PRE-START CHECKLIST

1. Check controls for proper operation.
2. Make sure all controls are in the "O" position
3. Be sure accelerator/directional control pedal is in the neutral position
4. Check all flaps for damage or wear
5. Check scrub brushes
6. Fill tank with water and detergent

### TO FILL SOLUTION TANK

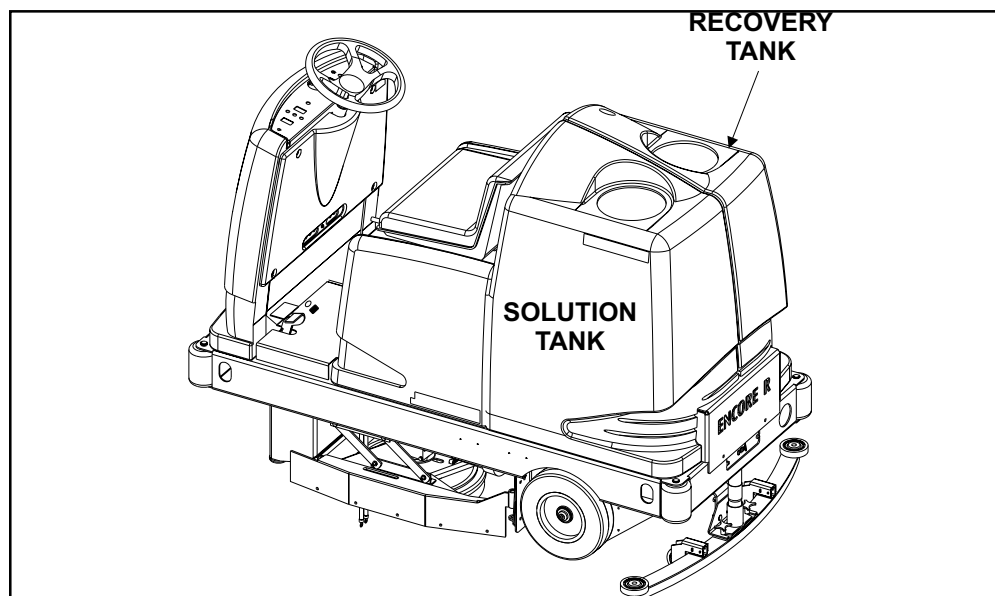
Remove the solution lid located on the back right side of the machine. Fill tank with 40 gallons of water and the correct mixture of American Lincoln Commercial cleaner for the job on hand, first making sure that the solution control knob is "OFF." Place the lid back on the solution tank.

### TO START MACHINE

1. Release parking brake
2. Turn key to "I" position

### TO TRANSPORT MACHINE

1. Be sure the brushes and squeegee are in the "UP" or "RAISED" position with all other controls in the "O" position.
2. Release parking brake.
3. Push forward on the directional control pedal to place the machine in motion.
4. Vary your foot pressure on the directional control pedal to obtain desired travel speed.
5. To stop, allow directional control pedal to return to neutral (centered) position. (Pedal will automatically return to neutral when foot pressure is released).
6. Set parking brake.



C1832

FIGURE 15

### TO BEGIN THE CLEANING OPERATION

1. Lower brushes to the desired position.  
SCRUB DECK = NORMAL RANGE OR HEAVY
2. Place the squeegee switch in the lower position.  
SQUEEGEE BLADE = LOWER
3. Move solution control knob to the desired setting and begin operation.

### SCRUBBING THE AVERAGE FLOOR WITH LIGHT TO MEDIUM SOILAGE

In this operation, cleaning is accomplished in one pass, with simultaneous solution feed, scrubbing and dirty water pick up. The rate of solution feed and the speed of travel required will vary with floor condition. This knowledge will come with operator experience.

### TO STOP THE CLEANING OPERATION

Discontinue the cleaning operation whenever a solution tank is empty or a recovery tank is full. At this time, discontinue the scrubbing cycle, put all controls in the forward position for transport and drive to the drain area.

### NOTE

After stopping, perform these post operation checks.

### POST OPERATION CHECKLIST

Check Battery Condition and recharge, if necessary.

1. Check all flaps for wear, damage and adjustment.
2. Drain and clean recovery tank.
3. Clean recovery tank screen and float.
4. Check scrub brushes for wear or damage.
5. Check rear and side squeegee for wear, damage and adjustment.

### TO DRAIN RECOVERY TANK

A drain hose for the recovery tank is located underneath the right side of the machine. To drain the tank, remove and lower the hose and place in a suitable floor drain. Open Recovery Tank Lid and remove Drain Plug to allow the soiled water to drain. When the draining operation is completed, Flush and Clean the recovery tank, Install Drain Plug, close Recovery Tank Lid and replace the drain hose.

### IMPORTANT

Always flush the recovery tank with clean water at the end of each cleaning cycle. Never let debris accumulate, settle and harden in the tank or on associated hardware.

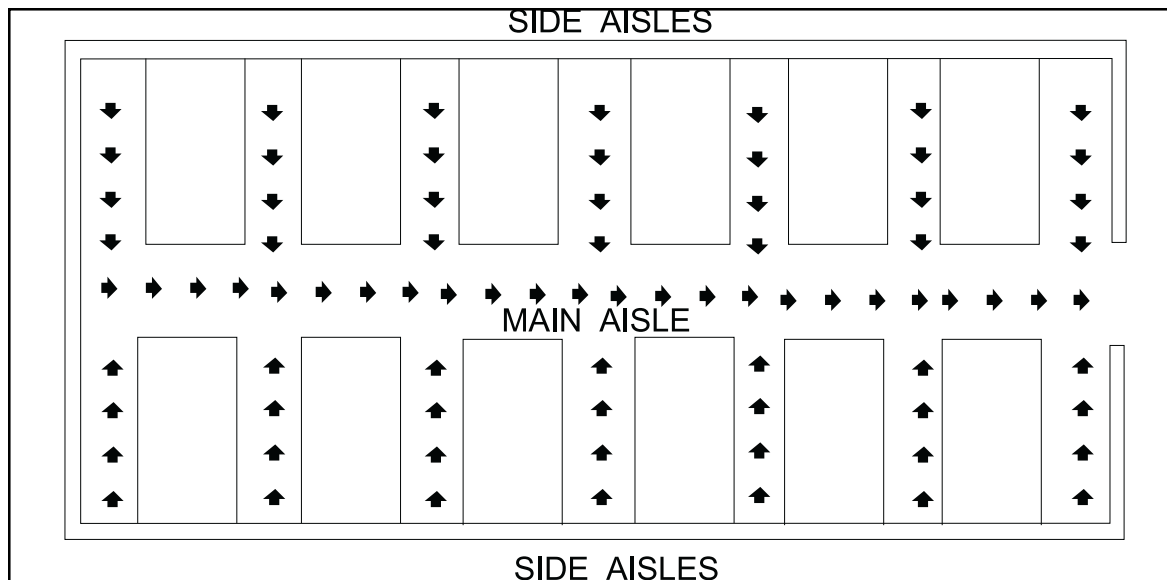


### WARNING

Improper discharge of wastewater will damage the environment and is illegal. The U.S. Environmental Protection Agency has established certain regulations regarding discharge of wastewater. Also, local city and state regulations regarding wastewater discharge may be in effect in your area. Understand and follow the regulations in your area. Be aware of the environmental hazards associated with the substances you dispose of.

### NOTE

Replace disc brushes when bristles are reduced to 3/4 inch length. To order replacement brushes, see scrub brush options in this manual. Replace squeegee rubbers when all usable edges have become rounded with wear, impairing the wiping action. To order replacement squeegee rubbers, see the parts list in this manual.



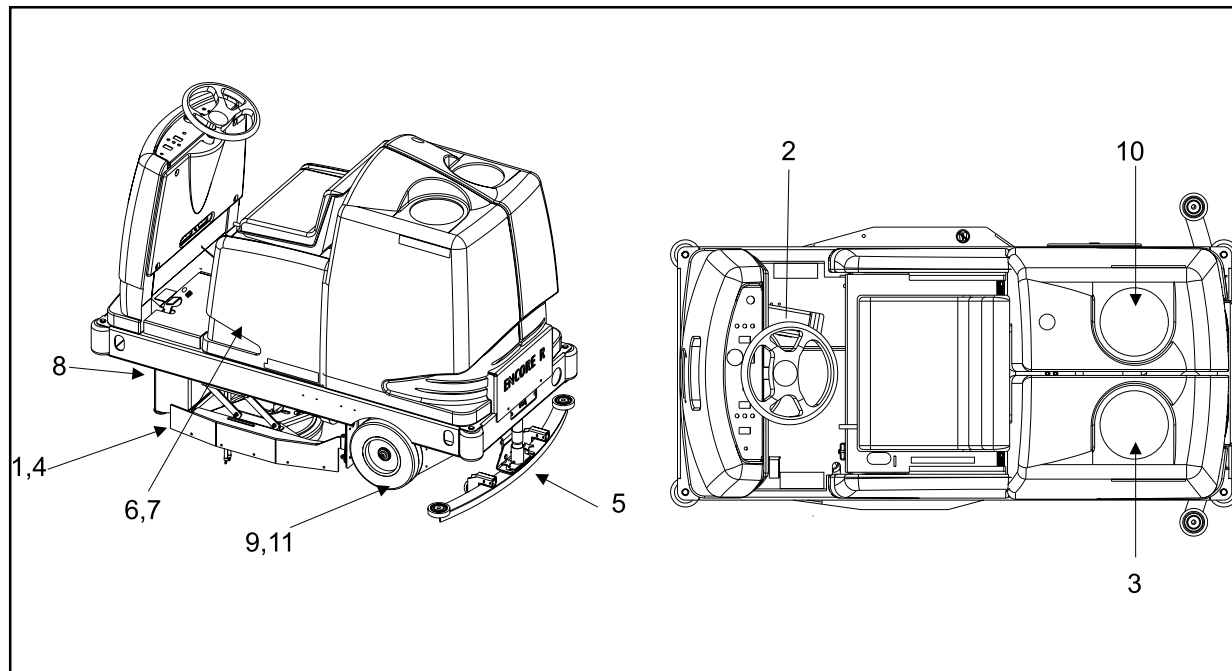
P4134

FIGURE 16



### WARNING

- Do not turn the steering wheel sharply when the machine is in motion. The sweeper is very responsive to movement of the steering wheel. Do not make sudden turns.
- Scrub in straight paths. Do not bump posts. Do not scrape the sides of the machine.
- When the machine is in motion, do not push the directional/speed control pedal all the way forward. This is the same as starting in "high" and will put a strain on the motor and drive system.
- Plan your sweeping and scrubbing in advance. Try to arrange long runs with minimum stopping and starting. Sweep debris from narrow aisles out into main aisle ahead of time. Do an entire floor, or section at on time.
- Pick up oversize debris before sweeping.
- Allow a few inches of overlap of sweep and scrub paths. This will eliminate leaving dirty patches.
- Don't turn steering wheel to sharply when machine is in motion. The machine is very responsive to movement of the steering wheel; so avoid sudden turns.
- Try to follow as straight a path as possible. Avoid bumping into posts or scraping the sides of the machine.
- When placing the machine in motion, avoid slamming the directional control pedal all the way forward suddenly. This is equivalent to starting out in "HIGH" and puts needless strain on the drive system. Periodically, turn the sweeping broom end for end to prevent the bristles from "settling" in one direction.



C1833

FIGURE 17

**EVERY 8 HOURS or DAILY operation check and clean/adjust if necessary - (Figure 15):**

1. All flaps for wear or damage
2. Parking brake
3. Clean recovery tank
4. Scrub brushes for wear or damage
5. Rear squeegee for wear or damage
6. Charge and check batteries

**50 HOUR MAINTENANCE CHECKLIST:**

7. Check battery electrolyte level
8. Lubricate front wheel bearing and pivot

**100 HOUR MAINTENANCE CHECKLIST:**

9. Lubricate drive chain, use motorcycle chain lube
10. Clean solution tank
11. Inspect chain sprockets and alignment

For service assistance, consult your local American-Lincoln Distributor, For best performance, replace worn parts with genuine American-Lincoln parts.

Refer all Maintenance and Service Requirements to Qualified Maintenance Personnel.

Do not attempt to service this machine until you have read and understood all Safety Warnings associated with the equipment you are working on.

## SERVICE CHART

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### WARNING

Maintenance and repairs must be done by authorized personnel only.



### WARNING

Electrical repairs must be done by authorized personnel only. Consult your American-Lincoln Authorized Service Person to do service procedures. Use only genuine American-Lincoln parts.



### WARNING

Always park on a level surface, turn key off, and engage parking brake before working on the machine to keep it from creeping or rolling.



### IMPORTANT

If towing or pushing is required, disconnect motor lead located on the terminal block on the bottom of the machine.



### WARNING

Maintenance and repairs must be done by authorized personnel only. Always empty the solution tank and the recovery tank before doing any maintenance. Keep all fasteners tight. Keep adjustments according to the specifications as shown in the Service Manual for this machine.



### WARNING

Always wear eye protection and protective clothing when working near batteries. Do not put tools or other metal objects across the tops of the batteries.



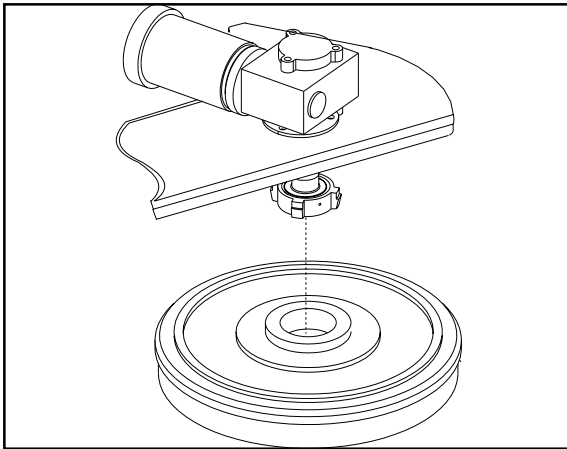
### WARNING

To prevent damage to the machine, and discharge across the tops of the batteries, do not fill the batteries above the bottom of the tube in each cell. Wipe any acid from the machine or the tops of the batteries. Do not add acid to a battery after installation.



### WARNING

Always wear eye protection and protective clothing when working near batteries. NO SMOKING.



C1834

FIGURE 18

## REPLACING THE SCRUB BRUSHES

(See Figure 18)

Replace Scrub Brushes when the bristles become worn to  $\frac{3}{4}$ ".

1. Lower scrub brushes.
2. Swing open side squeegees
3. Lift scrub brushes
4. The scrub brush is held in place by a ring. Pull the brush straight down to remove it.
5. Push a new brush onto the scrub brush driver until it clicks in place.
6. Lower Scrub Deck to the NORMAL position and check the brush for proper floor contact.
7. Replace side squeegees.

## REPLACING PADS ON A PAD DRIVER-(See Figure 19)

Install a new pad when the old pad is worn or dirty. The pad driver assembly is removed and installed the same way a standard scrub brush is. (See REPLACING THE SCRUB BRUSHES)

To change pad follow this procedure.

1. The pad driver is held in place by a ring. Pull the pad driver straight down to remove it.
3. Remove the pad holder using the spring wire retainer.
4. Replace the worn pad



C1877

FIGURE 19

## MAINTENANCE FOR THE REAR SQUEEGEE

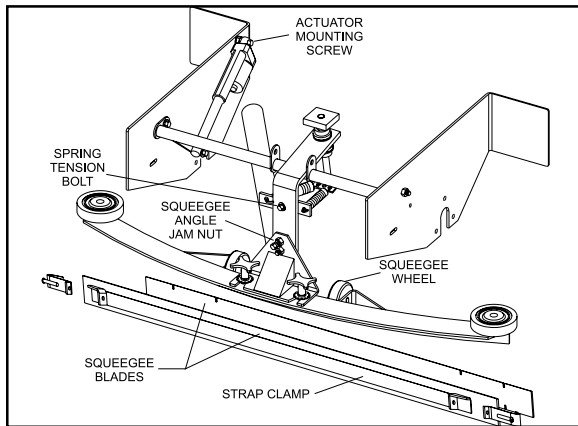
(See Figure 20)

To remove the squeegee, follow this procedure:

1. Remove the squeegee assembly by loosening the two knobs that attach the squeegee to the machine. Pull the squeegee assembly off.
2. Inspect the squeegee blade.
3. If the blade is worn, turn the blade so that a new edge is in the wiping position.
4. Reinstall squeegee assembly on the machine.

### Note

Toothed lock washers must be on top of support plate



C1852

FIGURE 20

### SQUEEGEE WHEEL ADJUSTMENT - (See Figure 20)

Adjust if squeegee leaves water on floor. The wheels must be 3/16" (.476 cm) above the floor.

1. Set the parking brake.
2. Turn the key switch to the "I" position.
3. Put the Squeegee Blade Switch in the "LOWER" position.
4. Turn the key switch to the "O" position. This will turn off the vacuum fans.
5. Loosen the wheel brackets by turning the adjustment handles.
6. Adjust the wheels to 3/16" (.476 cm) above the floor.
7. Tighten the wheel brackets with the adjustment handles.

### SQUEEGEE BLADE REPLACEMENT - (See Figure 21)

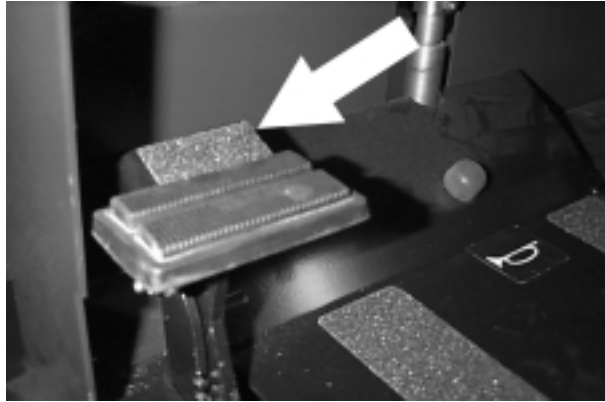
Replace if front or rear blades are worn or damaged.

1. Set the parking brake.
2. Turn the key to the "I" position.
3. Put the Squeegee Blade Switch in the "LOWER" position.
4. Turn the key switch to the "O" position.
5. Remove the rear squeegee assembly.
6. Loosen the strap clamp.
7. Remove the old blades.
8. Push the new blades in until they are against the top of the squeegee. Retighten clamp.

### SQUEEGEE ANGLE ADJUSTMENT - (See Figure 21)

If the rear squeegee blade is not bent evenly along its full length as it is working the squeegee angle needs to be adjusted.

1. Park the machine on a smooth level surface.
2. Lower the squeegee and turn the key off.
3. Loosen the jam nut located above the squeegee tool.
4. Adjust the screw to correct the angle of the squeegee tool.
5. Tighten the jam nut. Tighten the screw and nut below the jam nut if required.



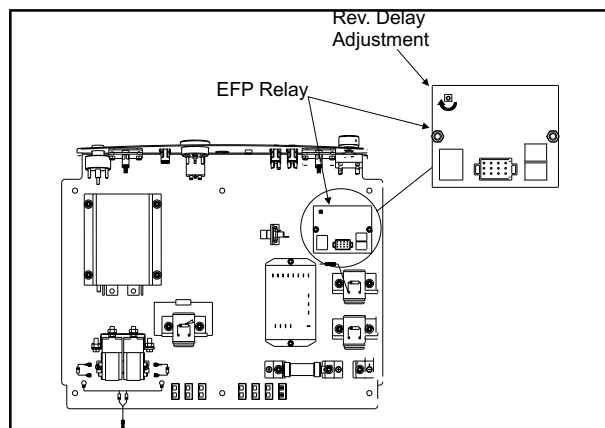
C1848

FIGURE 21

## SETTING THE PARKING BRAKE (See figure 21)

Set the brakes using the following steps;

1. Park the machine on a smooth level surface.
2. Press down on the brake pedal.
3. With your toes, press down on the upper part of the brake pedal. (This will set the parking brake)
4. To release press down on the brake pedal again (This will release the parking brake).



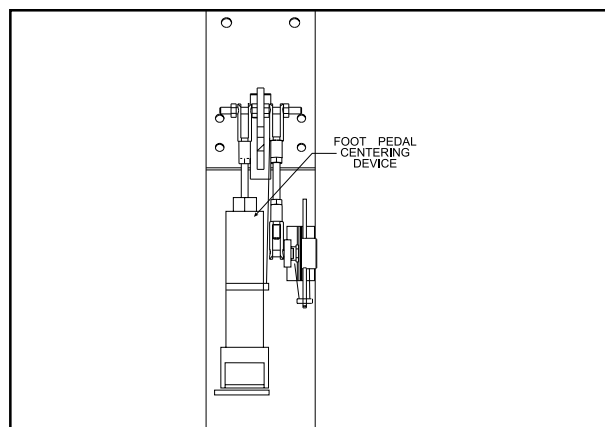
C1857

FIGURE 22

## SETTING THE REVERSE DELAY ADJUSTMENT- (See figure 22)

If the squeegee does not clear the floor before the machine moves in reverse, it may be necessary to increase the reverse delay on the E.F.P. Relay.

1. Gain access to the E.F.P. Relay by removing the two bolts from the sides of the control panel and pulling the panel off.
2. Locate the reverse delay potentiometer, which is located on the E.F.P. Relay
3. Turning the potentiometer clockwise (turn only slightly) increases the reverse delay, allowing more time for the squeegee to clear the floor.
4. Set the reverse delay so the squeegee just clears the floor before the machine starts to travel in reverse.



C1858

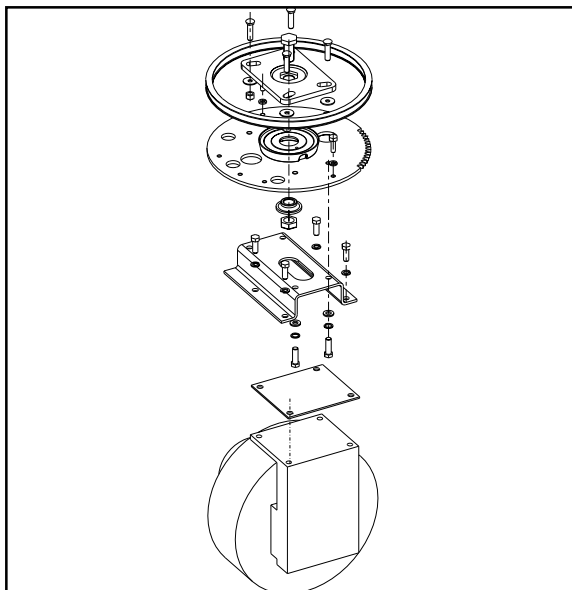
FIGURE 23

## FOOT PEDAL NEUTRAL ADJUSTMENT-

(See Figure 23)

Adjust if machine creeps in neutral.

1. Engage Clevis thread fully with 2 threads showing inside of clevis.
2. Adjust the centering control, clevis and threaded rod to 9 inches. However, leave locknut loose.
3. Plug potentiometer into harness.
4. With the key switch "on" and drive wheel clear of floor adjust large nut in the centering control to stop wheel rotation.
5. Lock nut into centering control.



C1859

FIGURE 24

### STEERING ADJUSTMENT-(See Figure 24)

There are two adjustments available on the steering system: sprocket adjustment and pivot play.

### STEERING ADJUSTMENTS - PIVOT ADJUSTMENT - (See Figure 24)

Adjust if front tire rocks during use.

1. Park the machine on a smooth level surface and set the parking brake.
2. Jack up the front of the machine until the front wheel clears the ground.
3. Use proper jacking equipment and install jack stands whenever working under a machine.
4. Remove the nut at the center of the front wheel pivot sprocket.
5. Lower the pivot assembly, keeping it level, until a shim can be removed.
6. Reinstall pivot and tighten nut completely. Be sure the pivot turns freely, otherwise reinstall shim and remove a thinner one.

### STEERING ADJUSTMENTS - SPROCKET ADJUSTMENT - (See Figure 24)

Adjust if steering slips or becomes tight.

1. Park the machine on a smooth level surface and set the parking brake.
2. Jack up the front of the machine until the front wheel clears the ground.
3. Use proper jacking equipment and install jack stands whenever working under a machine.
4. Loosen the four screws that hold the front wheel assembly to the frame.
5. Adjust the front wheel left or right to get proper engagement of the steering sprocket into the chain.
6. Retighten the mounting screws.

### SWEeper OPTION-DRIVE BELT ADJUSTMENTS

#### Motor Drive Belt

1. Loosen idler pulley
2. Move in slot in main frame
3. Retighten

#### Main Broom Belt

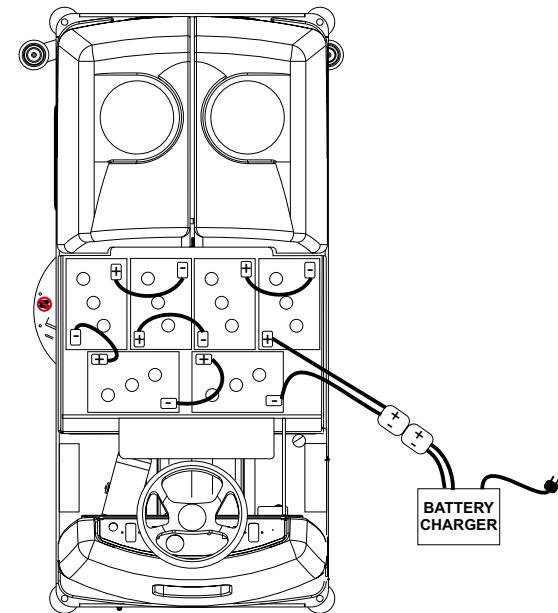
1. Loosen broom lift arm with bolt and nut.
2. Tension belt by inserting a flat blade screwdriver in the adjusting slot in support bracket and pry arm forward.
3. Tighten nut.

#### Side Broom Belt

1. Loosen pulley and broom with screw and nut
2. Force pulley and broom forward
3. Retighten

### BATTERY REMOVAL

1. Lift seat cover, make sure the safety latch is secure in the notch.
2. Unplug the battery.
3. Use 1000 lb. (454 KG) lifting mechanism to lift and remove battery.



C1865

FIGURE 24

### BATTERY CHARGING INSTRUCTION

When the batteries are disconnected (i.e. charging, replacement), the microprocessor needs to be reset by turning the key switch on and raising the brush deck. When the red light comes on steady the batteries can be charged.

1. Lift seat cover, make sure safety latch is secure in notch.
2. Insert charging plug into battery receptacle.
3. Plug power cord into proper AC source.
4. Follow the charging instructions provided on the charger.
5. Maintain electrolyte level in batteries, check after charging. Add distilled water as needed.



#### WARNING

Do not remove the battery from the machine if there is waste in the solution tank.

## SERVICE INSTRUCTIONS

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### WARNING

Hydrogen gas is formed during the charging operation and is explosive! Only charge batteries in a well-ventilated area with the lid open. Avoid any open flame or electrical sparks. Pulling out the charger plug, with the charger still on, will cause an arc and must be avoided.



### WARNING

Batteries are heavy. Get help to lift the batteries.



### WARNING

Always remove jewelry, wear protective clothing, and face protection when working near batteries.



### WARNING

Lead acid batteries generate gases, which cause explosions. Keep sparks and flames away from batteries charge the batteries only in area with good ventilation. NO SMOKING!



### WARNING

To prevent an explosion, disconnect the AC plug from the receptacle before connection or disconnection the DC plug on the charger.



### WARNING

The battery box can slide off a forklift and cause severe personal injury or damage to equipment. Ensure that the battery box is properly secured to the forks of the forklift during transport, drive and stop with caution!

| <b>PROBLEM</b>                          | <b>PROBABLE CAUSE</b>                                                                                                                                                                                                                   | <b>REMEDY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poor Scrubbing                          | <ol style="list-style-type: none"> <li>1. Worn scrubbing brushes</li> <li>2. Incorrect method of operation</li> <li>3. Wrong cleaning agent or mixture</li> <li>4. Poor solution distribution</li> <li>5. Brushes won't turn</li> </ol> | <ol style="list-style-type: none"> <li>1. Replace brushes when scrub reaches "WORN" zone. Brushes should be replaced when bristles become worn to <math>\frac{3}{4}</math>" in length.</li> <li>2. Check scrubbing procedure, brush pressure, type of cleaning agent and solution flow are important to the scrubbing process.</li> <li>3. Use American Lincoln recommended cleaning material</li> <li>4. Check solution strainer and clean as necessary. Check solution feed hoses for obstructions. Check valve control for proper operation.</li> <li>5. Check wire connections</li> </ol> |
| Water Splashes From Sides Of Scrub Deck | <ol style="list-style-type: none"> <li>1. Scrub deck bumpers, poor contact with floor.</li> <li>2. Squeegee blades worn or damaged.</li> <li>3. Too much solution</li> </ol>                                                            | <ol style="list-style-type: none"> <li>1. Readjust blades for proper contact.</li> <li>2. Replace and adjust</li> <li>3. Shut off solution flow 5' to 10' before making turns</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                      |
| Machine Does Not Move                   | <ol style="list-style-type: none"> <li>1. Circuit breaker #4 is tripped</li> <li>2. Battery Unplugged.</li> </ol>                                                                                                                       | <ol style="list-style-type: none"> <li>1. Reset breaker. In approximately one minute</li> <li>2. Plug in battery</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## TROUBLE SHOOTING

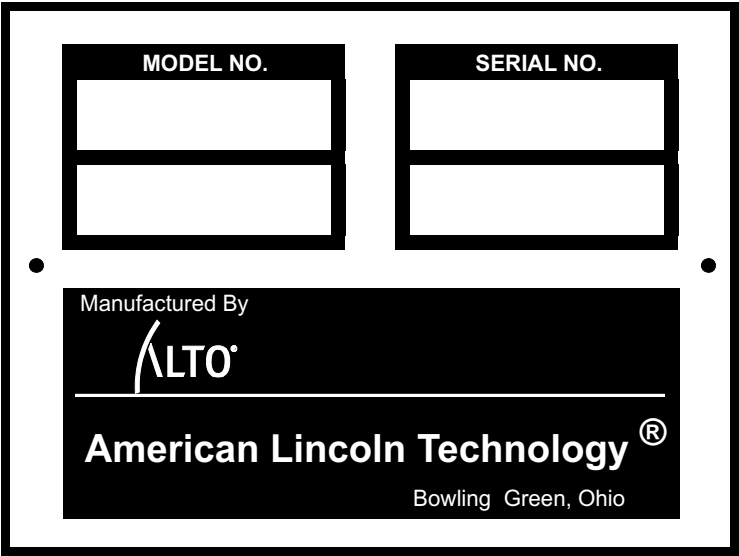
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| PROBLEM                        | PROBABLE CAUSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | REMEDY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poor Water Pick up at Squeegee | <ol style="list-style-type: none"><li>1. Recovery tank full.</li><li>2. Squeegee is worn or damaged</li><li>3. Clogged suction hose or pick up tool.</li><li>4. Loose connections between suction hose &amp; squeegee</li><li>5. Vacuum motors not running</li><li>6. Plugged filter</li><li>7. Vacuum float cage clogged</li><li>8. Vacuum float shut off</li><li>9. Air leaks in suction hose and connection.</li><li>10. Air leaks at recovery tank cover and/or manifold hose.</li><li>11. Drain hose or drain plug leakage or not closed properly</li></ol> | <ol style="list-style-type: none"><li>1. Empty tank</li><li>2. Examine squeegee rubber blade for cuts or worn spots. Replace if necessary.</li><li>3. Disconnect suction hose from squeegee, flush squeegee &amp; hoses thoroughly.</li><li>4. Check all hose connections for looseness or damage</li><li>5. Reset circuit breaker or repair loose connection</li><li>6. Clean filter element in vacuum manifold</li><li>7. Clean perforated metal thoroughly</li><li>8. Excessive solution in recovery tank. Excessive foam build up, change cleaning chemical mixture. Use A-L approved material</li><li>9. Repair or replace hose and connections</li><li>10. Repair and replaced seal or hose</li><li>11. Close, repair or replace drain plug in recovery tank</li></ol> |

| <b>PROBLEM</b>                    | <b>PROBABLE CAUSE</b>                                                                                                                                     | <b>REMEDY</b>                                                                                                                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Squeegee leaves Wet Spots         | 1. Lift actuator out of adjustment<br>2. Squeegee wheels out of adjustment<br>3. Incorrect spring pressure                                                | 1. Adjust<br>2. Adjust<br>3. Adjust                                                                                                                                                                                           |
| Squeegee Makes Excessive Noise    | 1. Blades worn or damaged<br>2. Incorrect spring pressure                                                                                                 | 1. Replace<br>2. Adjust                                                                                                                                                                                                       |
| Poor Swweeping (Option)           | 1. Broom Jammed<br>2. Hopper full<br>3. Broom does not turn<br><br>4. Hopper not installed correctly<br>5. Poor broom pattern<br>6. Flaps worn            | 1. Remove obstruction<br>2. Empty<br>3. Adjust or replace broom belts<br>Reset circuit breakers adjust broom microswitches. Repair loose wire connections.<br>4. Reinstall<br>5. Adjust sweep pattern<br>6. Repair or replace |
| Machine moves Slow or Erratically | 1. Battery charge low<br>2. Brakes dragging<br>3. Loose connection at foot pedal<br>4. Overload of drive circuit<br><br>5. Control Pot. out of adjustment | 1. Charge<br>2. Adjust<br>3. Repair<br>4. Remove obstruction, put drive pedal in neutral.<br>5. Adjust                                                                                                                        |

ORDERING PARTS

Parts may be ordered from American-Lincoln authorized distributors. Inspect the Alto U.S. serial plate to avoid delays in filling you orders:



- 1. Use the model number, catalog number, and serial number when ordering.
- 2. Give the part number, description, and quantity of parts needed.
- 3. Give shipping instructions for either freight, UPS, or parcel post.

Parts and supplies listed in this manual can be ordered from the following address:

|                                                                                       |                                              |
|---------------------------------------------------------------------------------------|----------------------------------------------|
| <b>Alto U.S., Inc.</b><br><b>American Lincoln Technologies</b>                        | <b>Alto U.S., Inc.</b><br><b>Distributor</b> |
| <b>1100 Haskins Road</b><br><b>Bowling Green, Ohio 43402</b><br><b>(800) 331-7692</b> |                                              |

MACHINE CATALOG NUMBER

|         |                         |
|---------|-------------------------|
| 505-901 | ENCORE R (34") SCRUBBER |
| 505-902 | ENCORE R (38") SCRUBBER |

**ABBREVIATIONS - SCREWS**

|         |                                        |
|---------|----------------------------------------|
| ADJ     | = Adjusting Screw                      |
| ADJ.SP  | = Adjusting Plunger Screw              |
| BHM     | = Binding Head Machine Screw           |
| BHS     | = Button Head Socket Screw             |
| CAPT.SL | = Captivated Slotted Screw             |
| CAPT.WG | = Captivated Wing Screw                |
| FHM     | = Flat Head Machine Screw              |
| FIL.HM  | = Filister Head Machine Screw          |
| HHC     | = Hexagon Head Cap Screw               |
| HHM     | = Hexagon Head Machine Screw           |
| HIHD    | = 1/2 High Head Screw                  |
| HSHC    | = Hexagonal Socket Head Cap Screw      |
| HSFHC   | = Hexagonal Socket Flat Head Cap Screw |
| KNH     | = Knurled Head Screw                   |
| MHHC    | = Metric Hexagon Head Cap Screw        |
| PHM     | = Pan Head Machine Screw               |
| RHD     | = Round Head Drive Screw               |
| RHM     | = Round Head Machine Screw             |
| RHW     | = Round Head Wood Screw                |
| SHC     | = Shiny Crown Cap Screw                |
| SHTB    | = Shoulder Thumb Screw                 |
| SQ      | = Square Head Screw                    |
| TB      | = Thumb Screw                          |
| THM     | = Truss Head Machine Screw             |
| WELD    | = Weld Stud                            |
| WG      | = Wing Screw                           |

**ABBREVIATIONS - SETSCREWS**

|      |                              |
|------|------------------------------|
| HS   | = Hexagonal Socket Setscrew  |
| S    | = Slotted Setscrew           |
| SH   | = Square Head Setscrew       |
| -KCP | = Knurled Cup Point Setscrew |
| -CP  | = Cup Point Setscrew         |
| -OP  | = Oval Point Setscrew        |
| -FDP | = Full Dog Point Setscrew    |
| -HDP | = Half Dog Point Setscrew    |
| -FP  | = Flat Point Setscrew        |
| -COP | = Cone Point Setscrew        |

## HARDWARE LEGEND

| <u>Key No.</u> | <u>Part Number</u> | <u>Description</u>                  |
|----------------|--------------------|-------------------------------------|
| H1             | 2-00-05060         | Screw, #6-32 x 1.250 RHM            |
| H2             | 2-00-00455         | Flat Washer, .375 x .156 x .047     |
| H3             | 2-00-01499         | Lock Washer, #6 Med. Helical Spring |
| H4             | 2-00-00624         | Nut, #6-32 Hex                      |
| H5             | 2-00-00645         | Nut, Hex Fiber Insert #6-32         |
| H6             | 2-00-00049         | Screw, # 10-24 x .500 RHM           |
| H7             | 2-00-00056         | Screw, # 10-24 x .750 RHM           |
| H8             | 2-00-00039         | Screw, 10-24 x 1.000 RHM            |
| H9             | 2-00-00426         | Flat Washer, .500 x .219 x .063     |
| H10            | 2-00-00519         | Lock Washer, # 10 Med HS            |
| H11            | 2-00-00605         | Nut, Hex MS # 10-24 x .375 x .125   |
| H12            | 2-00-01246         | Nut, Hex Fiber Insert #10-24        |
| H13            | 2-00-00054         | Screw, 1/4-20 x .500 RHM            |
| H14            | 2-00-00219         | Screw, 1/4-20 x .500 HHC            |
| H15            | 2-00-00221         | Screw, 1/4-20 x .750 HHC            |
| H16            | 2-00-03051         | Screw, 1/4-20 x .750 HSHC           |
| H17            | 2-00-00205         | Screw, 1/4-20 x 1.000 HHC           |
| H18            | 2-00-00060         | Screw, 1/4-20 x 1.250 RHM           |
| H19            | 2-00-02587         | Screw, 1/4-20 x 1.250 HHC           |
| H20            | 2-00-00203         | Screw, 1/4-20 x 1.500 HHC           |
| H21            | 2-00-01769         | Screw, 1/4-20 x 1.750 HHC           |
| H22            | 2-00-02589         | Screw, 1/4-20 x 2.000 HHC           |
| H23            | 2-00-01980         | Screw, 1/4-20 x 2.500 HHC           |
| H24            | 2-00-00220         | Screw, 1/4-20 x .625 HHC            |
| H25            | 2-00-00594         | Nut, Hex 1/4-20 x .437 x .218       |
| H26            | 2-00-00641         | Nut, 1/4-20 Insert Fiber            |
| H27            | 2-00-03702         | Washer, .625 x .281 x .063          |
| H28            | 2-00-04685         | Screw, 1/4-20 x .750 HHC            |
| H29            | 2-00-04966         | Screw, 1/4-20 x 1.500 HHM           |
| H30            | 2-00-04687         | Lock Washer, Hel. Spring 1/4 Med.   |
| H31            | 2-00-04695         | Screw, # 10-32 x .630 RHM           |
| H32            | 2-00-04688         | Nut, 1/4-20 Hex.                    |
| H33            | 2-00-00224         | Screw, 5/16-18 x .500 HHC           |
| H34            | 2-00-00208         | Screw, 5/16-18 x .750 HHC           |
| H35            | 2-00-02708         | Screw, 5/16-18 x 1.000 HHM          |
| H36            | 2-00-00196         | Carriage Bolt, 5/16-18 x 1.000      |
| H37            | 2-00-00207         | Screw, 5/16-18 x 1.250 HHC          |
| H38            | 2-00-00225         | Screw, 5/16-18 x 1.500 HHC          |
| H39            | 2-00-00218         | Screw, 5/16-18 x 2.000 HHC          |
| H40            | 2-00-01770         | Screw, 5/16-18 x 2.750 HHC          |
| H41            | 2-00-02597         | Screw, 5/16-18 x 3.250 HHC          |
| H42            | 2-00-02655         | Screw, 5/16-18 x 4.500 HHC          |
| H43            | 2-00-00409         | Flat Washer, .687 x .344 x .062     |
| H44            | 2-00-00530         | Lock Washer, 5/16 HS Med.           |
| H45            | 2-00-00585         | Nut, Hex. 5/16-18 x .500 x .265     |
| H46            | 2-00-00644         | Nut, 5/16-18, Insert Fiber          |
| H47            | 2-00-00232         | Screw, 3/8-16 x .750 HHC            |
| H48            | 2-00-00233         | Screw, 3/8-16 x 1.000 HHC           |
| H49            | 2-00-00209         | Screw, 3/8-16 x 1.250 HHC           |
| H50            | 2-00-00234         | Screw, 3/8-16 x 1.500 HHC           |
| H51            | 2-00-00216         | Screw, 3/8-16 x 2.000 HHC           |
| H52            | 2-00-00402         | Flat Washer, .750 x .390 x .094     |
| H53            | 2-00-02310         | Lock Washer, Helical Spring 3/8     |
| H54            | 2-00-02360         | Nut, 3/8-16 Hex.                    |
| H55            | 2-00-00643         | Nut, 3/8-16 Stop                    |
| H56            | 2-00-00239         | Screw, 1/2-13 x 1.000 HHC           |
| H57            | 2-00-00240         | Screw, 1/2-13 x 1.250 HHC           |
| H58            | 2-00-00241         | Screw, 1/2-13 x 1.750 HHC           |
| H59            | 2-00-00242         | Screw, 1/2-13 x 2.250 HHC           |
| H60            | 2-00-02682         | Screw, 1/2-13 x 2.750 HHC           |
| H61            | 2-00-02616         | Screw, 1/2-13 x 3.000 HHC           |

## HARDWARE LEGEND

| <u>Key No.</u> | <u>Part Number</u> | <u>Description</u>                |
|----------------|--------------------|-----------------------------------|
| H62            | 2-00-00405         | Flat Washer, 1.063 x .531 x .094  |
| H63            | 2-00-02312         | Lock Washer, 1/2 HS Med.          |
| H64            | 2-00-00596         | Nut, Hex. 1/2-13 x .750 x .437    |
| H65            | 2-00-04936         | Nut, 1/2-13 Fibre Lock            |
| H66            | 2-00-02689         | Screw, 1/2-20 x 1.000 HHC         |
| H67            | 2-00-00614         | Nut, Hex 1/2-20                   |
| H68            | 2-00-00640         | Nut, Hex Fiber Insert 1/2-20      |
| H69            | 2-00-01255         | Screw, 5/16-18 x .875 HHC         |
| H70            | 2-00-05254         | Screw, 3/4-10 x 2.250 HHC         |
| H71            | 2-00-05255         | Nut, 3/4-10 Nylon Lock            |
| H72            | 2-00-00518         | Lock Washer, Helical Spring       |
| H73            | 2-00-00247         | Screw, 1/2-13 x 2.500 HHC         |
| H74            | 2-00-03170         | Flat Washer, 1.500 x .750 x .125  |
| H75            | 2-00-00618         | Nut, Hex Jam 3/8-16               |
| H76            | 2-00-00632         | Nut, Fiber Insert 3/8-24 Steel    |
| H77            | 2-00-00484         | Flat Washer, .625 x .375 x .046   |
| H78            | 2-00-05187         | Carriage Bolt, 3/8-16 x 1.250     |
| H79            | 2-00-01676         | Flat Washer, 1.062 x .265 x .062' |
| H80            | 2-00-02196         | Carriage Bolt, 1/4-20 x 1.000 RHM |
| H81            | 2-00-05276         | Screw, 3/8-16 x 5.500             |
| H82            | 2-00-00505         | Lock Washer, 3/8 Int. Tooth       |
| H83            | 2-00-04877         | Screw, 1/4-20 x 1.000 BHS         |
| H84            | 2-00-00228         | Screw, 5/16-18 x 2.250 HHC        |
| H85            | 2-00-00650         | Nut, Cap 3/8-16 Low Crown         |
| H86            | 2-00-03575         | Carriage Bolt, 1/4-20 x .750      |
| H87            | 2-00-00263         | Set Screw, 1/4-20 x .250 HSKCP    |
| H88            | 2-00-05258         | Screw, #8-325 x .750 BHS          |
| H89            | 2-00-01372         | Nut, Fiber Insert #8-32 Steel     |
| H90            | 2-00-03569         | Carriage Bolt, 5/16-18 x .750     |
| H91            | 2-00-05279         | Screw, M6 x 1.0 x 20 mm MHHC      |
| H92            | 2-00-04801         | Flat Washer, .875 x .375 x .125   |
| H93            | 2-00-00222         | Screw, 1/4-20 x 1.250 HHM         |
| H94            | 2-00-00410         | Flat Washer, .875 x .375 x .060   |
| H95            | 2-00-03382         | Spring Washer, .875 x .500 x .015 |
| H96            | 2-00-02605         | Screw, 3/8-16 x 4.500 HHC         |
| H97            | 2-00-04677         | Screw, 1/4-20 x .750 HSC          |
| H98            | 2-00-05277         | Screw, 1/2-13 x .750 HSHC         |
| H99            | 2-00-02810         | Screw, 1/4-20 x 1.000 FHM         |
| H100           | 2-00-03062         | Screw, #10-24 x .625 THM          |
| H101           | 2-00-04897         | Screw, #10-24 x 1.250 THM         |
| H102           | 2-00-04795         | Screw, #10-24 x .750 BHS          |
| H103           | 2-00-00089         | Screw, 10-24 x 1.500 RHM          |
| H104           | 2-00-03541         | Screw, 1/4-20 x 1.500 FHSCH       |
| H105           | 2-00-05260         | Nut, Jam #8-32                    |
| H106           | 2-00-04886         | Screw, 3/8-16 x .500 HSHC         |
| H107           | 2-00-04887         | Screw, Main Broom Control         |
| H108           | 2-00-04888         | Washer, Main Broom Control        |
| H109           | 2-00-00522         | Lock Washer, 3/4 Helical Spring   |
| H110           | 2-00-03039         | Screw, 1/4-20 x .625 HSHC         |
| H111           | 2-00-03296         | Screw, 3/8-16 x 4.000 HHC         |
| H112           | 2-00-02603         | Screw, 3/8-16 x 3.500 HHC         |
| H113           | 2-00-03333         | Screw, 3/8-16 x 3.750 HHC         |
| H114           | 2-00-00633         | Nut, Fiber 1/4-28                 |
| H115           | 2-00-03063         | Screw, #10-24 x .750 THM          |
| H116           | 2-00-01951         | Carriage Bolt, 1/4-20 x 1.250     |
| H117           | 2-00-05067         | Flat Washer, 1.750 x .531 x .100  |
| H118           | 2-00-02618         | Screw, 1/2-13 x 3.500 HHC         |
| H119           | 2-00-05005         | Screw, M10 x 1.500 30 mm MHHC     |
| H120           | 2-00-03829         | Lock Washer, 3/8 Bolt             |
| H121           | 2-00-00090         | Screw, #8-32 x 1.500 RHM          |
| H122           | 2-00-05216         | Screw, 1/4-20 x 5.000 HHC         |

## HARDWARE LEGEND

| <u>Key No.</u> | <u>Part Number</u> | <u>Description</u>               |
|----------------|--------------------|----------------------------------|
| H123           | 2-00-00204         | Screw, 1/4-20 x 1.500 HHC        |
| H124           | 2-00-02296         | Lock Washer, #10 Ext. Shakeproof |
| H125           | 2-00-00418         | Flat Washer, .984 x .627 x .063  |
| H126           | 2-00-03466         | Screw, #10-16 x .500             |
| H127           | 2-00-03522         | Washer, 5/16 x 1.250 x .050      |
| H128           | 2-00-04681         | Carriage Bolt, 5/16-18 x 1.250   |
| H129           | 2-00-02311         | Lock Washer, 4.38 Split          |
| H130           | 2-00-03334         | Screw, .44-20 x 1.000 HHC        |
| H131           | 2-00-03855         | Carriage Bolt, 3/8-16 x 1.000    |
| H132           | 2-00-00503         | Lock Washer, 1/4 Ext.            |
| H133           | 2-00-00006         | Screw, #10-24 x .675 FHM         |
| H134           | 2-00-03032         | Screw, 3/8-16 x .750 FHS         |
| H135           | 2-00-05298         | Flat Washer, .344 x 2.000 x .062 |
| H136           | 2-00-03940         | Screw, #10-24 x .500 T/C HH      |
| H137           | 2-00-05299         | Screw, #10-24 x 1.250 HSHC       |
| H138           | 2-00-00504         | Lock Washer, Int.                |
| H139           | 2-00-00611         | Nut, Hex Jam, 3/8-24             |
| H140           | 2-00-00447         | Flat Washer, 1.250 x .280 x .090 |
| H141           | 2-00-00501         | Lock Washer, Int.                |
| H142           | 2-00-05244         | Carriage Bolt, 1/2-13 x 2.000    |
| H143           | 2-00-00432         | Flat Washer, 1.13 x .770 x .063  |
| H144           | 2-00-02303         | Lock Washer, Int.                |
| H145           | 2-00-04180         | Setscrew, 1/4-20 x .500          |
| H146           | 2-00-00420         | Flat Washer, 1.000 x .516 x .063 |
| H147           | 2-00-00642         | Nut, Fibre Insert 5/18-18        |
| H148           | 2-00-01778         | Screw, 1/2-13 x 2.000 HHC        |
| H149           | 2-00-01803         | Washer, 1.063 x .031 x .063      |
| H150           | 2-00-00211         | Screw, 5/16-18 x 1.750 HHC       |
| H151           | 2-00-00213         | Screw, 5/16-18 x .625 HHC        |
| H152           | 2-00-01562         | Carriage Bolt, 5/16-18 x 2.250   |
| H153           | 2-00-03266         | Washer                           |
| H154           | 2-00-04363         | Screw, M8-1.250 x .750           |
| H155           | 2-00-05044         | Lock Washer, M14 Split           |
| H156           | 2-00-05079         | Screw, M14 x 1.500 x 25 mm HHC   |
| H157           | 2-00-00217         | Screw, 5/16-18 x 2.000 HHC       |
| H158           | 2-00-05306         | Screw, M14 x 35 mm HHC           |
| H159           | 2-00-00512         | Lock Washer                      |
| H160           | 2-00-00441         | Flat Washer, .438 x .200 x .036  |
| H161           | 2-00-00153         | Screw, #8-24 x .875 OHM          |
| H162           | 2-00-03961         | Screw, 5/16-24 x 1.000 HHC       |
| H163           | 2-00-03570         | Carriage Bolt, 3/8-16 x .750     |
| H164           | 2-00-00107         | Screw, 10-24 x 4.50 RD. HD.      |
| H165           | 2-00-00589         | Nut, Hex Jam, .25-20             |
| H166           | 2-00-00066         | Screw, 6-32 x .50 RHM            |
| H167           | 2-00-04312         | Screw, 10-24 x .625 T/C Hex HD.  |
| H168           | 2-00-05261         | Insert, 1/4-20                   |
| H169           | 2-00-02637         | Screw, 1/4-20 x 2.750 HHC        |
| H170           | 2-00-03061         | Screw, # 10-24 x .500 THM        |
| H171           | 2-00-02371         | Nut, Hex Jam .50-13 STL.         |
| H172           | 2-00-04986         | Screw, 1/4-20 x 4.500            |
| H173           | 2-00-02709         | Screw, 5/16-18 x 1.500           |
| H174           | 2-00-00183         | Screw, 1/4-20 x .750 THM         |
| H175           | 2-00-01252         | Screw, 10-24 x 2.750 RDH         |
| H176           | 2-00-05337         | Screw, #8-32 x .750 BHS SS       |
| H177           | 2-00-05324         | Threaded Insert, #8-32           |
| H178           | 2-00-00206         | Screw, 5/16-18 x 1.000 HHC       |
| H179           | 2-00-04948         | Screw, 25mm - M8 x 1.250         |
| H180           | 2-00-04378         | Clip, Water Line                 |
| H181           | 2-00-05078         | Screw, M6 x 1.000 x 10mm HHC     |
| H182           | 2-00-00236         | Screw, 5/8-16 x 2.500 HHC        |

**HARDWARE LEGEND**

| <u>Key No.</u> | <u>Part Number</u> | <u>Description</u>                  |
|----------------|--------------------|-------------------------------------|
| H185           | 2-00-02588         | Screw, 1/4-20 x 1.125 HHC Cad. Pl.  |
| H186           | 2-00-03041         | Screw, 1/4 x 1.250 HSC-SS           |
| H187           | 2-00-00071         | Screw, #10-24 x 1.250 RHM           |
| H188           | 2-00-01987         | Flat Washer, .438 x .200 x .036 sst |
| H189           | 2-00-00460         | Flat Washer, .437 x .192 x .031-s   |
| H190           | 2-00-00529         | Lock Washer - helical sps, 8 MDM    |
| H191           | 2-00-00602         | Nut, MSCR - Hex, 8-32               |
| H192           | 2-00-04841         | Nut 3/4 - 16 Slotted Hex head       |
| H193           | 2-00-03412         | Lock Nut, .375 - 24, sps 21 FK      |
| H194           | 2-00-03537         | Screw - 1/4 - 20 x2.000             |
| H195           | 2-00-04210         | Clamp                               |
| H196           | 2-00-05350         | Screw 1/4 - 28 x .63 HHC            |
| H197           | 2-00-03979         | Washer 1.00 x .391 x .06            |
| H198           | 2-00-03808         | Wahser 1.50 x .750 x .06            |
| H199           | 2-00-04603         | Clamp                               |
| H200           | 2-00-00626         | Nut, Hex MS #10 - 32 x .375 x .125  |
| H201           | 2-00-02011         | Plastic Plug, .440 Dia (Diesel)     |
| H202           | 2-00-04514         | Plastic Plug, .562 Dia ( LP & Gas)  |
| H203           | 2-00-04794         | Screw, #10 - 24 x .625 BHS          |
| H204           | 2-00-04873         | Clamp                               |
| H205           | 2-00-04721         | Grommet, 1.750 x1.125 x .500 x.125  |
| H206           | 2-00-00407         | Washer, Flat .562 x.265             |
| H207           | 2-00-02227         | Key, .125 x .750 SQ                 |
| H208           | 2-00-00772         | Cotterpin .093 x 1.000              |
| H209           | 2-00-00586         | Nut Hex Jam 5/16 - 18x .500 x .187  |
| H210           | 2-00-00776         | Cotterpin .125x1.500                |
| H211           | 2-00-02728         | Screw 10 - 32 x .375 BHM            |
| H212           | 2-00-00566         | Fitting-Grease                      |
| H213           | 2-00-01254         | Screw - 1/2 - 13 x 1.500 HHCS       |
| H214           | 2-00-00462         | Flat Washer, .562 x .250 x .031     |
| H215           | 2-00-02558         | Grease Zerk                         |
| H216           | 2-00-04378         | Harness Clamp                       |
| H217           | 2-00-00511         | Internal Washer, #6                 |
| H218           | 2-00-05345         | Screw, Hex Head Cap                 |
| H219           | 2-00-05359         | Nut, Serrated Flange 5/16-18        |
| H220           | 2-00-02617         | Screw, 50-13 x 3.25 HHC             |
| H221           | 2-00-03335         | Screw, Hex SOC Cap, .312 -18 x .50  |
| H222           | 2-00-02848         | Screw, 10-32 x .50 Cad PL,STL RHM   |
| H223           | 2-00-00631         | Nut, .31 - 24 Fiber Insert          |
| H224           | 2-00-04686         | Lock Washer-helical#10Scr.Med. SS   |
| H225           | 2-00-04851         | Washer, Engine Mount                |
| H226           | 2-00-04689         | Washer, 11/16 OD x .260 ID x .050   |
| H227           | 2-00-04596         | Screw, Hex Head 1/4 - 20 x 3.5      |
| H228           | 2-00-02606         | Screw, .375 - 24 x 1.00, STL HHC    |
| H229           | 2-00-01490         | Screw, .25 - 20 x .875 HHC STL      |
| H230           | 2-00-00466         | Flat Washer, .625 x .203 x .031     |
| H231           | 2-00-02933         | Screw, Mach 10 - 24 x 3.50          |
| H232           | 2-00-04909         | Yoke, Pin Assy.                     |
| H233           | 2-00-02638         | Screw, HHC .25-20 x 3.00            |
| H234           | 2-00-00064         | Screw- RHM #10-24 x .88             |
| H235           | 2-00-00197         | Carriage Bolt, .38-16 x 2.75        |
| H236           | 2-00-02369         | Nut, Hex Jam, .38-16                |
| H237           | 2-00-05356         | Screw, 5/16 - 18 X 1.25 Grade 8     |
| H238           | 2-00-03750         | Carriage Bolt, .38-16 x 1.50        |
| H239           | 2-00-02814         | Screw-FHM .25-20x1.75               |
| H240           | 2-00-05398         | Screw, HSHC 3/8-16 x .50            |
| H241           | 2-00-05395         | Screw, RHM .25-20 x 4.00 Zinc       |
| H242           | 2-00-05370         | Screw, M12 - 16 x 1.75 x 40mm HHC   |
| H243           | 2-00-00591         | Nut, Hex-Jam .50-20                 |
| H244           | 2-00-05297         | Nut, Insert Fiber, .38-16 Heavy Nut |
| H245           | 2-00-05401         | Shoulder Screw, 1/2-3/4             |

## HARDWARE LEGEND

| Key No. | Part Number | Description                         |
|---------|-------------|-------------------------------------|
| H246    | 2-00-05122  | Screw-HHC, .25-20 x 2.00            |
| H247    | 2-00-04590  | Washer                              |
| H248    | 2-00-05236  | Flat Washer, 2.000 x .281 x .063    |
| H249    | 2-00-00004  | Screw-FHM #10-24 x 1.25             |
| H250    | 2-00-04968  | Screw-T/FRH #14-10 x 1.00 Type A    |
| H251    | 2-00-02602  | Screw, 3/8-16 x 2.750 HHC Cad. Pl   |
| H252    | 2-00-00600  | Nut, Hex Heavy 3/8-16               |
| H253    | 2-00-05120  | Nut, .75-Hex Nyloc Jam              |
| H254    | 2-00-04625  | Screw-HHM .375-24 x .75             |
| H255    | 2-00-00227  | Screw-HHC .313-18 x 2.25            |
| H256    | 2-00-02354  | Nut-Hex-Jam .50-20                  |
| H257    | 2-00-00093  | Screw-RHM 6-32 x .75                |
| H258    | 2-00-04062  | Screw-T/FFH #6-20 x .50             |
| H259    | 2-00-05343  | Bolt Carriage, .38-16 x 3.50 sssl   |
| H260    | 2-00-00615  | Nut, Hex Fin .63 - 22               |
| H261    | 2-00-05344  | Screw - HHM .313 - 18 x 1.75 Stl    |
| H262    | 2-00-00617  | Nut, Hex, Finish .75-16             |
| H263    | 2-00-02313  | Lock Washer, HS .63 Scr. Med.       |
| H264    | 2-00-02622  | Screw, 5/16 - 18 x 1.000 HHM        |
| H265    | 2-00-00506  | Lock Washer, Int Tooth #8 Dia Screw |
| H266    | 2-00-05371  | Screw-RHM #8-32 x 2.38              |
| H267    | 2-00-00068  | Screw-RHM #8-32 x .63               |
| H268    | 2-00-00051  | Screw-RH, .25 - 20 x .75            |
| H269    | 2-00-00118  | Screw - RHM #10 - 24 x .625         |
| H270    | 2-00-05341  | Screw-HHC .75-10 x 2.00             |
| H271    | 2-00-03293  | Nut-Hex-Fin .75-10                  |
| H272    | 2-00-04563  | Screw, Shoulder #10-24              |
| H273    | 2-00-03214  | Screw, .31-18 x .75 Zinc PL HSHC    |
| H274    | 2-00-02676  | Screw, .50 - 13 x .75 HHM           |
| H275    | 2-00-00237  | Screw, HHC .375 - 16 x 3.00         |
| H276    | 2-00-00223  | Screw, HHC .25-20 x 1.25 nickel     |
| H277    | 2-00-05164  | Screw, HHM 5/16 - 18 x 3.50         |
| H278    | 2-00-03044  | Screw, .38 -16 .75 HSHC             |
| H279    | 2-00-04914  | Screw, .50 - 13 x 4.50 HHC          |
| H280    | 2-00-00187  | Bolt Carriage, .38 - 16 x 2.50      |
| H281    | 2-00-00415  | Flat Washer, .9375 x .468 x .0625SS |
| H282    | 2-00-02562  | Fitting                             |
| H283    | 2-00-03842  | Roll Pin, 1/4 x 1.00                |
| H284    | 2-00-04845  | Screw, 3/8-16 x 1.00 FHSC           |
| H285    | 2-00-05153  | Screw, 1/4 x 20 1.50 HHC            |
| H286    | 2-00-05383  | Washer, Special                     |
| H287    | 2-00-00264  | Set Screw, 1/4-20 x .313 HSKCP      |
| H288    | 2-00-00668  | Wing Nut, 5/16-18                   |
| H289    | 2-00-00532  | Snap Ring                           |
| H290    | 2-00-02049  | Bearing - Double Seal               |
| H291    | 2-00-02243  | Square Key, .188 - .187 x 1.250     |
| H292    | 2-00-02293  | Lockwasher, 5/8 Int.                |
| H293    | 2-00-03151  | Spacer, 1/2 ID 3/4 .625 Lg.         |
| H294    | 2-00-03158  | Spacer, 1/2 ID 3/4 .3/8 Lg.         |
| H295    | 2-00-03306  | Bearing                             |
| H296    | 2-00-03413  | Flat Washer, 1.125 x .765 x .062    |
| H297    | 2-00-04345  | Tye - Wrap                          |
| H298    | 2-00-04708  | Terminal                            |
| H299    | 2-00-05183  | Terminal, 1/4 x .03 12-10           |
| H300    | 2-00-00767  | Cotter Pin, .063 x.500              |
| H301    | 2-00-04159  | Flat Washer, 1.375 x .563 x .109 SS |
| H302    | 2-00-00490  | Washer, Spring, Shakeproof          |
| H303    | 2-00-05103  | Flat Washer, .750 x .343 x .050 SS  |
| H304    | 2-00-00246  | Screw, .25 - 20 x 2.25 HHC          |
| H307    | 2-00-02963  | Screw, RHM #10-32 1/4 PL. (Steel)   |
| H308    | 2-00-05388  | Sealing Washer 46/53 ESP OPT        |

## HARDWARE LEGEND

| <u>Key No.</u> | <u>Part Number</u> | <u>Description</u>                  |
|----------------|--------------------|-------------------------------------|
| H309           | 2-00-01081         | Screw - T/C RH #8-32x.50type 2      |
| H311           | 2-00-05024         | Washer Flat, 2 x 1.06               |
| H312           | 2-00-05227         | Screw, HHC M14 x 1.50 x 45mmgr10    |
| H313           | 2-00-04652         | Screw, HHC .438 - 20 x 1.50         |
| H314           | 2-00-03836         | Bolt Carriage, .31 - 18 x 1.75      |
| H315           | 2-00-00593         | Nut, .38-16 Hex heavy Jam           |
| H316           | 2-00-00044         | Screw, RHM #8-32 x .50              |
| H317           | 2-00-00252         | Screw, .313-18 x 4.00 HHC           |
| H318           | 2-00-04750         | Screw, BTN HD SKT                   |
| H319           | 2-00-02352         | Nut, Hex Hvy, .50-13 stl-zn.        |
| H320           | 2-00-05424         | Screw, Shoulder 1/2-1/2             |
| H321           | 2-00-04699         | Screw, HHC, .375-16 x 2.75          |
| H322           | 2-00-03993         | Screw, HHM 3/4-16 x 3.000           |
| H323           | 2-00-00244         | Screw, HHC .25-20 x 1.000           |
| H324           | 2-00-05329         | Screw, HHC M10 x 1.50 x 40MM SS     |
| H325           | 2-00-00092         | Screw, Ph. RHM #8-32 x 1.75 Zn.     |
| H326           | 2-00-00235         | Screw HHC .375-16 x 1.75            |
| H327           | 2-00-05444         | #10-24 BHCS 1.00 Black Oxide        |
| H328           | 2-00-03994         | Carriage Bolt, .31-18 x 1.50        |
| H329           | 2-00-00036         | Screw, RHM #10-24 x .25** NLS       |
| H330           | 2-00-00397         | Flatwasher .875 x .516 x .031 ss    |
| H331           | 2-00-02779         | Fhms #10-32 x .312                  |
| H332           | 2-00-05433         | M16 x 1.50 Hex Nut (Metric) Gr 10.9 |
| H333           | 2-00-00451         | Flatwasher .750 x .312 x .065 ss-zn |
| H334           | 2-00-05450         | Shoulder Screw, 5/16-18 x 3/8       |
| H335           | 2-00-03404         | Clamp - Witteck - C24P              |
| H336           | 2-00-04620         | O-Ring                              |

## CONNECTION & HARNESS ROUTING

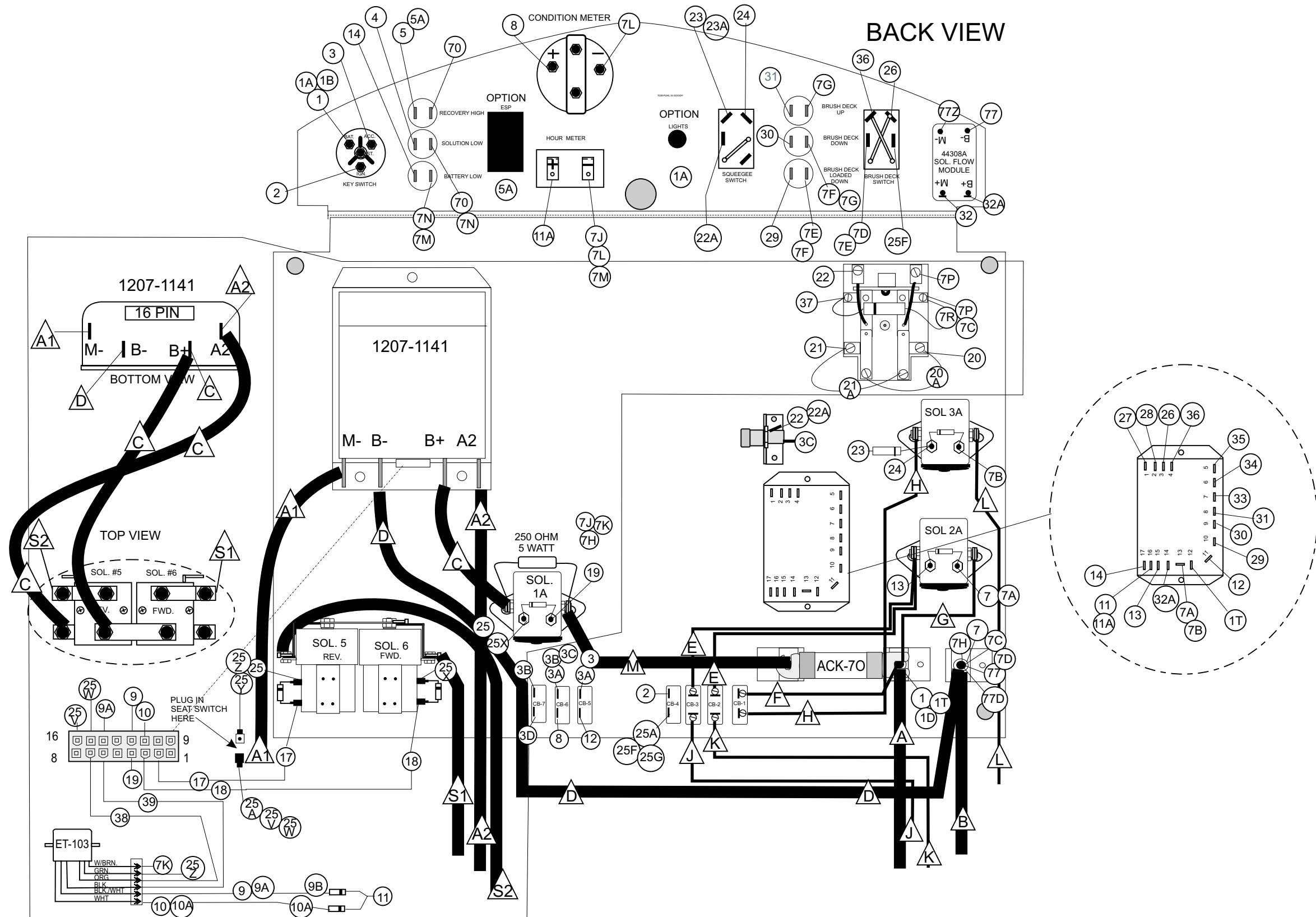
---

| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>QTY.</u> |
|----------------|-----------------|--------------------|-------------|
| 1              | 0795-127-1      | Harness - Mach.    | 1           |
| 2              | 2-00-04345      | Tye-Rap            | 12          |
| 3              | 7-13-07096      | Clamp              | 5           |
| 4              | 2-00-04588      | Wire Nut           | 2           |
| 5              | 2-00-04203      | Boots - Black      | 4           |
| 6              | 7-72-03031      | Sleeve             | 1           |
| 7              | 2-00-05416      | Boots - Black      | 4           |
| 8              | 7-90-07424      | Wire #1E           | 1           |
| 9              | 7-90-07410      | Wire A1            | 1           |
| 10             | 7-90-07411      | Wire A2            | 1           |
| 11             | 7-90-07408      | Wire S1            | 1           |
| 12             | 7-90-07409      | Wire S2            | 1           |

C1861-a/0103

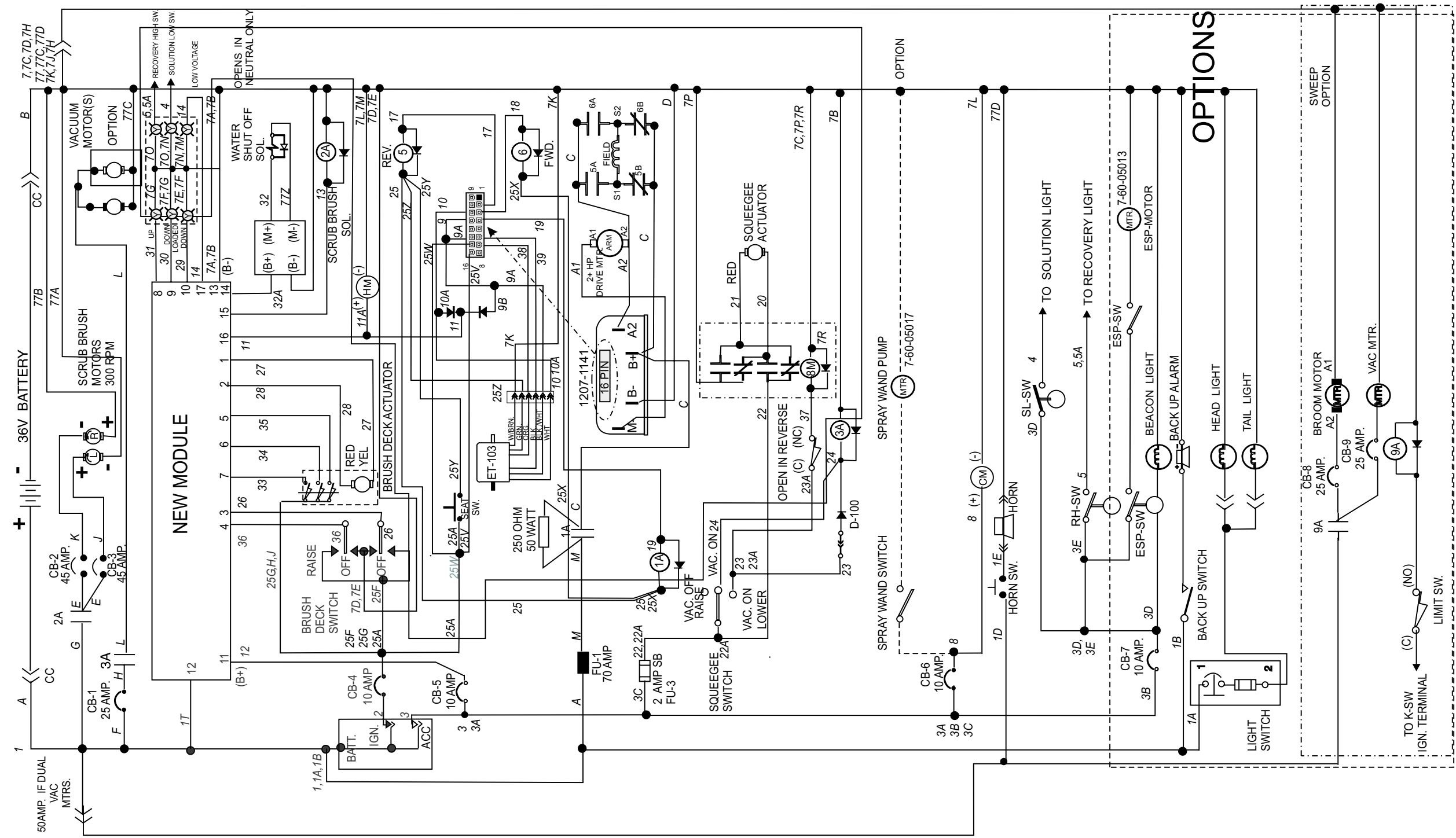
[illegible]

# CONNECTION DRAWING



c1820/0001

ELECTRIC SCHEMATIC

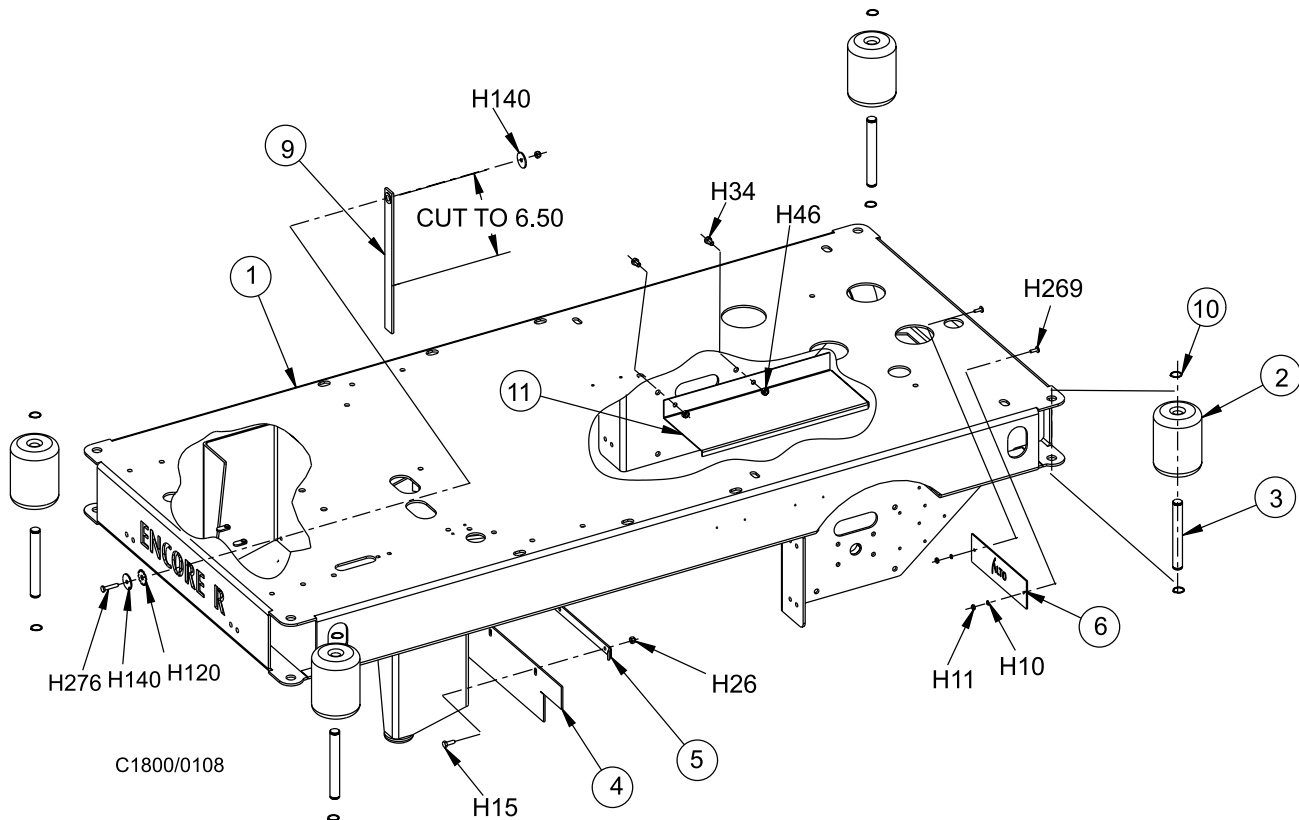


C1819/0001

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## FRAME ASSEMBLY

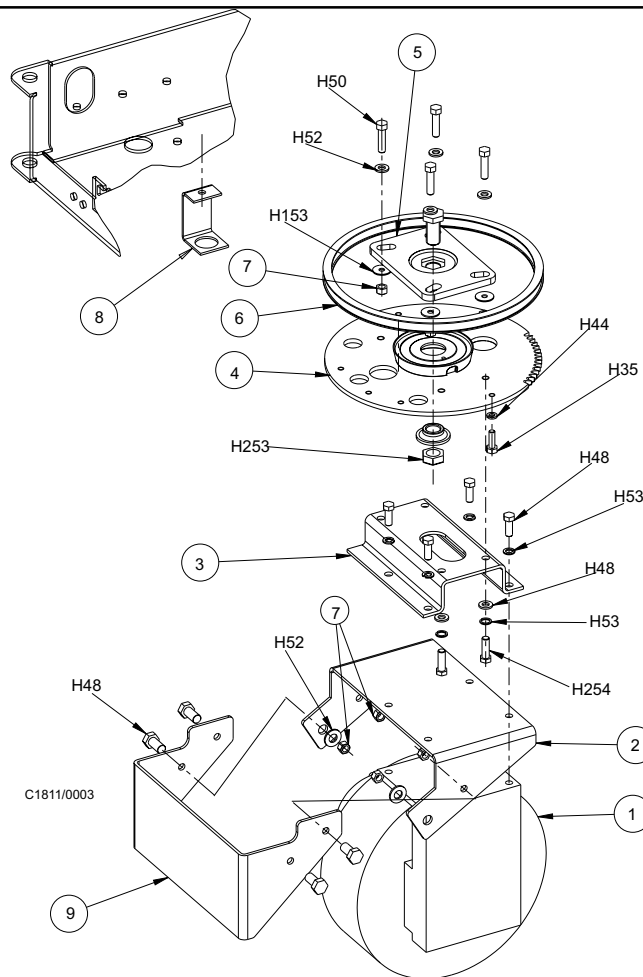


| KEY NO. | PART NO.     | DESCRIPTION           | QTY. |
|---------|--------------|-----------------------|------|
| 1       | 7-27-07190   | Main Frame Weldment   | 1    |
| 2       | 7-66-05011-1 | Roller - Bumper       | 4    |
| 3       | 7-70-05175   | Pin - Roller Bumper   | 4    |
| 4       | 7-77-00122   | Rubber - Front Splash | 1    |
| 5       | 7-13-07184   | Clamp - Front Splash  | 1    |
| 6       | 7-58-05287   | Plate - Decal         | 1    |
| 7       |              |                       |      |
| 8       |              |                       |      |
| 9       | 8-79-00030   | Ground Strap          | 1    |
| 10      | 2-00-00540   | Retaining Ring        | 8    |
| 11      | 7-58-05291   | Support - Drain Hose  | 1    |

### HARDWARE USED:

|      |            |                                   |   |
|------|------------|-----------------------------------|---|
| H10  | 2-00-00519 | Lock Washer, #10 Med. HS          | 2 |
| H11  | 2-00-00605 | Nut Hex MS #10 - 24 x .375 x 1.25 | 2 |
| H15  | 2-00-00221 | Screw, 1/4 - 20 x .750 HHC        | 5 |
| H26  | 2-00-00641 | Nut 1/4 - 20 Insert Fiber         | 5 |
| H34  | 2-00-00208 | Screw, 5/16 - 18 x .750 HHC       | 2 |
| H46  | 2-00-00644 | Nut, 5/16 - 18 Insert Fiber       | 2 |
| H120 | 2-00-03829 | Lock Washer, 3/8 Bolt             | 1 |
| H140 | 2-00-00447 | Flat Washer, 1.250 x .280 x .090  | 2 |
| H276 | 2-00-00223 | Screw, HHC .25-20 x 1.25 (Nickel) | 1 |
| H269 | 2-00-00118 | Screw RHM #10 - 24 x .625         | 2 |

C1800/0108



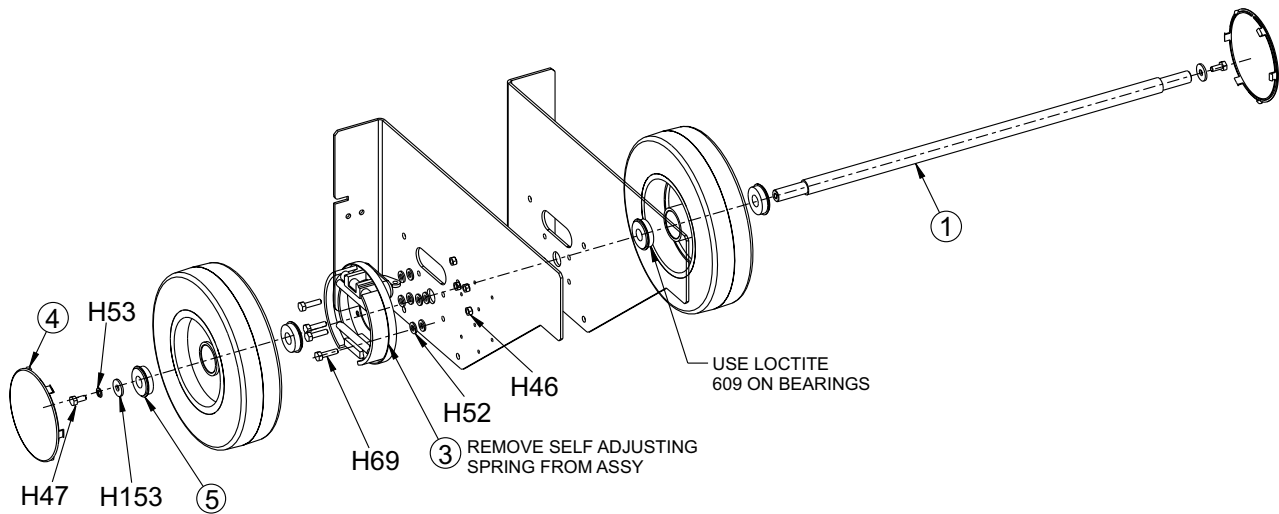
| KEY NO. | PART NO.     | DESCRIPTION           | QTY. |
|---------|--------------|-----------------------|------|
| 1       | 0785-083     | Drive Assembly        | 1    |
| 2       | 7-58-05280-1 | Plate, Drive MTG.     | 1    |
| 3       | 7-58-05281   | Dive Mounting Bracket | 1    |
| 4       | 8-57-05022   | Sprocket              | 1    |
| 5       | 7-57-05032   | Pivot Caster          | 1    |
| 6       | 7-13-05065   | Steering Chain        | 1    |
| 7       | 2-95-04182   | Fiber Nut             | 8    |
| 8       | 7-30-08017   | Guide - Motor Wires   | 1    |
| 9       | 7-30-05105   | Guard, Wheel          | 1    |

**HARDWARE USED:**

|      |            |                                      |    |
|------|------------|--------------------------------------|----|
| H35  | 2-00-02708 | Screw, 5/16 - 18 x 1.000 HHM         | 2  |
| H44  | 2-00-00530 | Lock Washer, 5/16 HS Med.            | 2  |
| H48  | 2-00-00233 | Screw, 3/8 - 16 x 1.000 HHC          | 8  |
| H50  | 2-00-00234 | Screw, 3/8 -16 x 1.50 HHC            | 4  |
| H52  | 2-00-00402 | Flat Washer, .750 x .390 x .094      | 10 |
| H53  | 2-00-02310 | Lock Washer, Helical Spring 3/8 Med. | 8  |
| H153 | 2-00-03266 | Washer                               | 4  |
| H253 | 2-00-05120 | Nut .75-Hex Nyloc Jam                | 1  |
| H254 | 2-00-04625 | Screw-HHM .375-24 x .75              | 4  |

C1811/0003

## REAR ASSEMBLY



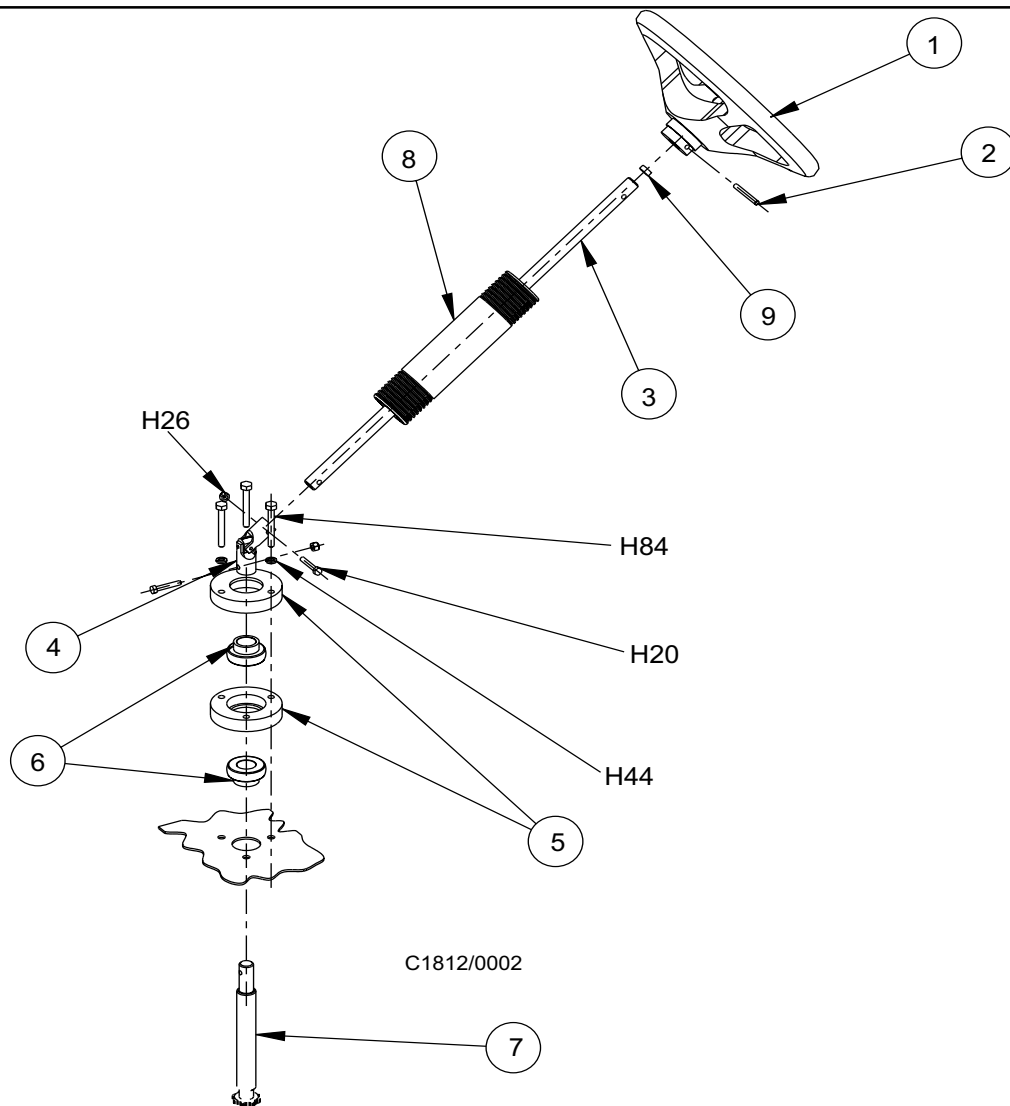
C1801/0001

| KEY NO. | PART NO.   | DESCRIPTION                 | QTY. |
|---------|------------|-----------------------------|------|
| 1       | 7-70-05184 | Shaft - Rear Axle           | 1    |
| 2       | 7-89-08096 | Wheel - Rear (Polyurethane) | 2    |
| 3       | 0860-636   | Brake - LH                  | 1    |
| 4       | 34711B     | Wheel Cover                 | 2    |
| 5       | 2-00-04636 | Bearing                     | 4    |

### HARDWARE USED

|      |            |                                      |   |
|------|------------|--------------------------------------|---|
| H46  | 2-00-00644 | Nut, 5/16-18 Fiber Insert            | 4 |
| H47  | 2-00-00232 | Screw, 3/8-16 x .750 HHC             | 2 |
| H52  | 2-00-00402 | Flat Washer, .750 x .390 x .094      | 8 |
| H53  | 2-00-02310 | Lock Washer, Helical Spring 3/8 Med. | 2 |
| H69  | 2-00-01255 | Screw, 5/16-18 x .875 HHC            | 4 |
| H153 | 2-00-03266 | Washer                               | 2 |

C1801/0001



| KEY NO. | PART NO.   | DESCRIPTION            | QTY. |
|---------|------------|------------------------|------|
| 1       | 7-89-08083 | Steering Wheel         | 1    |
| 2       | 2-00-05417 | Roll Pin               | 1    |
| 3       | 7-70-05176 | Shaft-Steering Wheel   | 1    |
| 4       | 7-37-00001 | Universal Joint        | 1    |
| 5       | 7-25-06031 | Flange-Steering Mount  | 2    |
| 6       | 2-00-05159 | Bearing                | 2    |
| 7       | 7-70-05182 | Steering Shaft         | 1    |
| 8       | 7-33-02393 | Hose                   | 10"  |
| 9       | 7-75-01196 | Spacer, Steering Wheel | 1    |

**HARDWARE USED:**

|     |            |                              |   |
|-----|------------|------------------------------|---|
| H20 | 2-00-00203 | Screw, 1/4 x 20 x 1.500 HHC  | 2 |
| H26 | 2-00-00641 | Nut, 1/4-20 Insert Fiber     | 2 |
| H44 | 2-00-00530 | Lock Washer, 5/16 HS Med.    | 3 |
| H84 | 2-00-00228 | Screw, 5/16 - 18 x 2.250 HHC | 3 |

C1812/0002

## **BRAKE ASSEMBLY - PARTS LIST**

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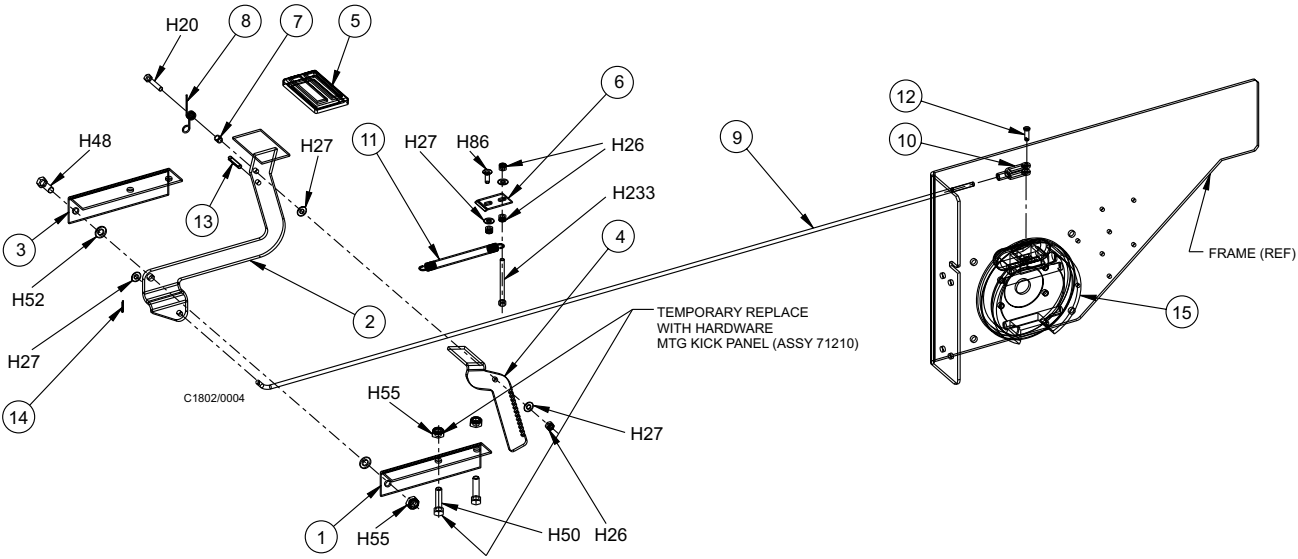
| <b><u>KEY NO.</u></b> | <b><u>PART NO.</u></b> | <b><u>DESCRIPTION</u></b>  | <b><u>QTY.</u></b> |
|-----------------------|------------------------|----------------------------|--------------------|
| 1                     | 7-57-05051             | Pivot - Brake Pedal        | 1                  |
| 2                     | 7-55-00032             | Arm - Brake Pedal Weldment | 1                  |
| 3                     | 7-57-05050             | Pivot Brake Pedal          | 1                  |
| 4                     | 7-55-00019-1           | Arm - Parking Brake Pedal  | 1                  |
| 5                     | 7-50-05145             | Pad - Brake Pedal          | 1                  |
| 6                     | 8-13-07067             | Parking Bake Clip          | 1                  |
| 7                     | 8-09-01069             | Bushing                    | 1                  |
| 8                     | 7-76-00013             | Spring                     | 1                  |
| 9                     | 7-66-00187             | Rod - Brake LH             | 1                  |
| 10                    | 8-14-01006             | Clevis                     | 1                  |
| 11                    | 7-76-00102             | Spring                     | 1                  |
| 12                    | 2-00-04909             | Yoke Pin Assy              | 1                  |
| 13                    | 2-00-03635             | Spring Pin                 | 1                  |
| 14                    | 2-00-00767             | Cotter Pin                 | 1                  |
| 15                    | 0860-636               | Brake - LH                 | Ref.               |

### **HARDWARE USED:**

|      |            |                                 |   |
|------|------------|---------------------------------|---|
| H20  | 2-00-00203 | Screw, 1/4-20 X 1.500 HHC       | 1 |
| H26  | 2-00-00641 | Nut, 1/4-20 Fiber Insert        | 4 |
| H27  | 2-00-03702 | Washer, .625 x .281 x .063      | 5 |
| H48  | 2-00-00233 | Screw, 3/8-16 x 1.000 HHC       | 1 |
| H50  | 2-00-00234 | Screw, 3/8-16 x 1.500 HHC       | 2 |
| H52  | 2-00-00402 | Flat Washer, .750 x .390 x .094 | 2 |
| H55  | 2-00-00643 | Nut, 3/8-16 Stop                | 3 |
| H233 | 2-00-02638 | Screw, HHC .25 - 20 x 3.00      | 1 |

C1802/0004

BRAKE ASSEMBLY - EXPLODED VIEW



## CONSOLE ASSEMBLY - PARTS LIST

---

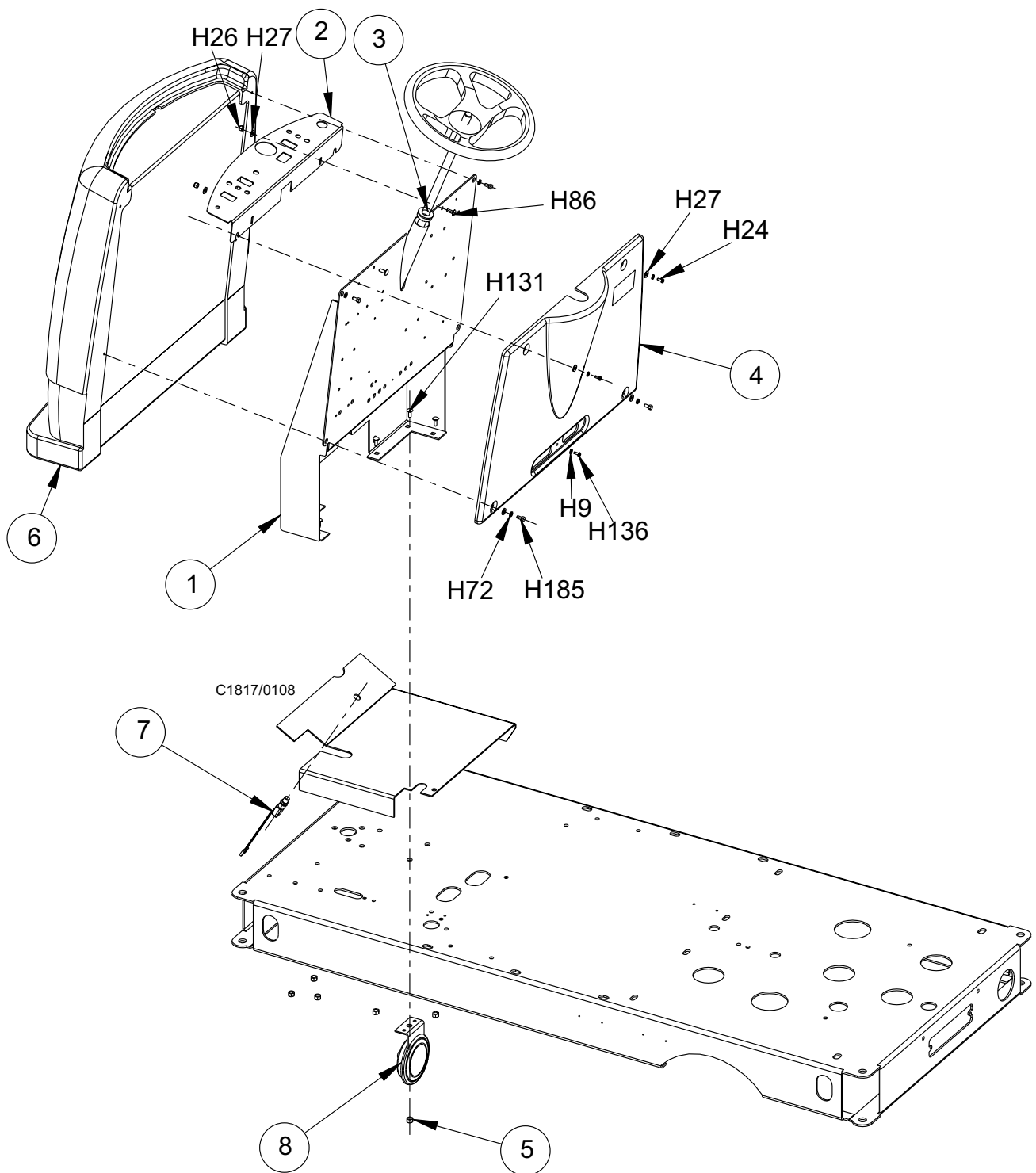
| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>              | <u>QTY.</u> |
|----------------|-----------------|---------------------------------|-------------|
| 1              | 7-52-00164      | Panel - Kick (Welded)           | 1           |
| 2              | 7-52-00165-1    | Panel - Dash                    | 1           |
| 3              | 8-06-01084      | Bearing                         | 1           |
| 4              | 7-52-00167      | Panel - Steering                | 1           |
| 5              | 2-95-04182      | Nut - 3/8 - 16 Elastic Stop Nut | 6           |
| 6              | 7-33-05121      | Console                         | 1           |
| 7              | 8-82-00030      | Switch - Push Button Lid        | 1           |
| 8              | 8-32-09008      | Horn                            | 1           |
| 9              | 7-90-07424      | Wire - IE                       | 1           |

### HARDWARE USED:

|      |            |                                    |   |
|------|------------|------------------------------------|---|
| H9   | 2-00-00426 | Flat Washer, .500 x .219 x .063    | 1 |
| H24  | 2-00-00220 | Screw, 1/4-20 x .625 HHC           | 2 |
| H26  | 2-00-00641 | Nut, 1/4-20 Fiber Insert           | 2 |
| H27  | 2-00-03702 | Washer, .625 x .281 x .063         | 6 |
| H72  | 2-00-00518 | Lock Washer, Helical Spring        | 4 |
| H86  | 2-00-03575 | Carriage Bolt, 1/4 - 20 x .750     | 2 |
| H131 | 2-00-03855 | Carriage Bolt, 3/8 - 16 x 1.000    | 6 |
| H136 | 2-00-03940 | Screw, #10 - 24 x .500 T/C HHC     | 1 |
| H185 | 2-00-02588 | Screw, 1/4-20 x 1.125 HHC Cad. Pl. | 2 |

C1817/0108

## CONSOLE ASSEMBLY - EXPLODED VIEW



## SCRUB DECK ACTUATOR - PARTS LIST

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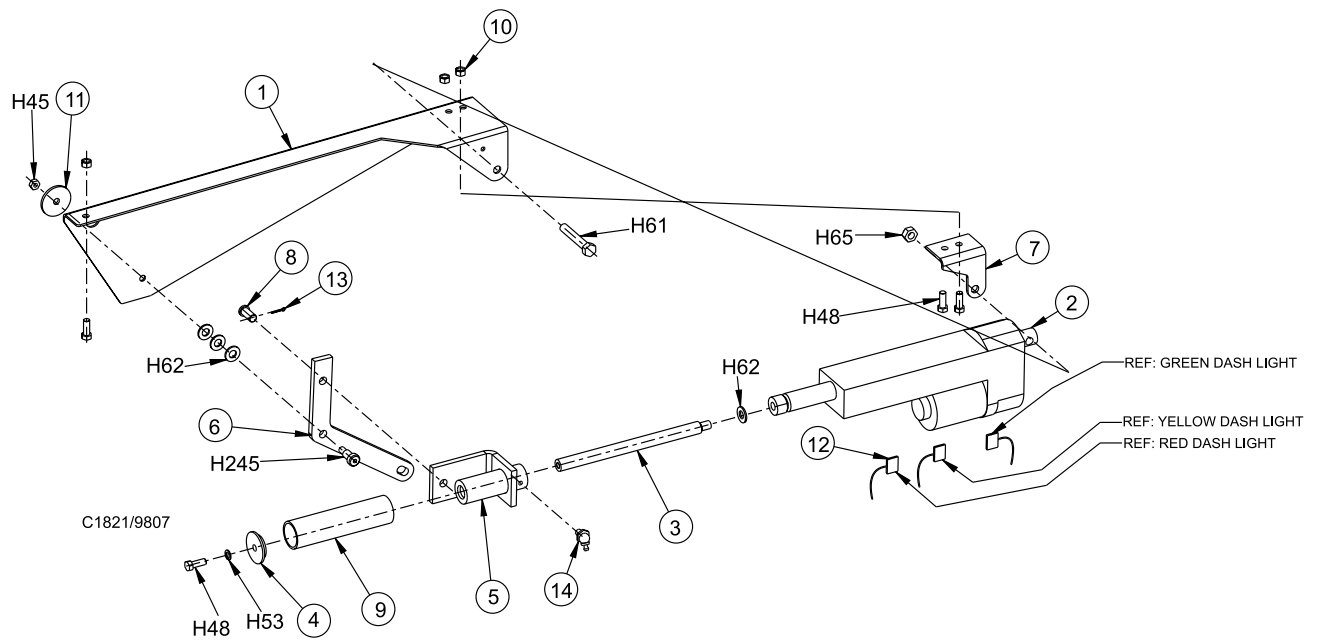
| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>              | <u>QTY.</u> |
|----------------|-----------------|---------------------------------|-------------|
| 1              | 7-81-00208      | Support - Actuator              | 1           |
| 2              | 0782-140        | Actuator                        | 1           |
| 3              | 7-66-00189      | Rod-Brush Spring                | 1           |
| 4              | 7-23-03117      | Washer - Spring Guide           | 1           |
| 5              | 7-03-04160      | Arm - Pivot                     | 1           |
| 6              | 7-03-04161      | Arm - Deck                      | 1           |
| 7              | 7-57-05048      | Pivot - Brush Actuator          | 1           |
| 8              | 7-55-08158      | Pin - Brush lift Pivot          | 1           |
| 9              | 7-76-00117      | Spring                          | 1           |
| 10             | 2-95-04182      | Nut - 3/8 - 16 Elastic Stop Nut | 3           |
| 11             | 2-95-04689      | Washer - Axle                   | 1           |
| 12             | 7-82-00043      | Switch                          | 3           |
| 13             | 2-00-00772      | Cotter Pin                      | 1           |
| 14             | 2-00-05293      | Lube Fitting                    | 1           |

### HARDWARE USED:

|      |            |                                      |   |
|------|------------|--------------------------------------|---|
| H48  | 2-00-00233 | Screw, 3/8 - 16 1.000 HHC            | 3 |
| H53  | 2-00-02310 | Lock Washer, Helical Spring 3/8 Med. | 1 |
| H54  | 2-00-02360 | Nut, 3/8 - 16 Hex                    | 1 |
| H61  | 2-00-02616 | Screw, 1/2 - 13 x 3.000HHC           | 1 |
| H62  | 2-00-00405 | Flat Washer, 1.063 x .531 x .094     | 4 |
| H65  | 2-00-04936 | Nut, 1/2-13 Fiber Lock               | 1 |
| H245 | 2-00-05401 | Shoulder Screw, 1/2 - 3/4            | 1 |

C1821/9807

## SCRUB DECK ACTUATOR - EXPLODED VIEW



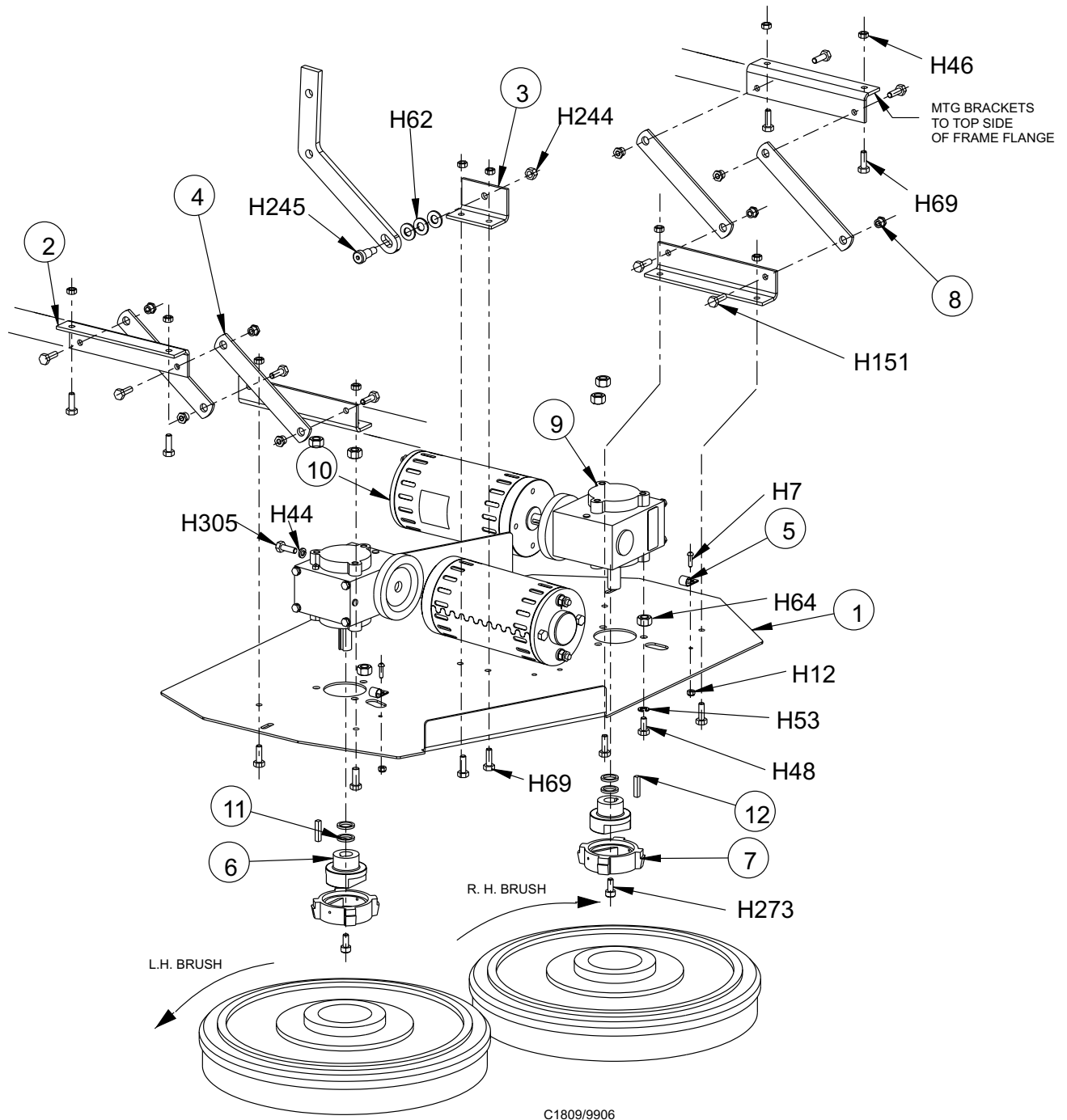
## SCRUB DECK ASSEMBLY (34") - PARTS LIST

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| <u>KEY NO.</u>               | <u>PART NO.</u> | <u>DESCRIPTION</u>                  | <u>QTY.</u> |
|------------------------------|-----------------|-------------------------------------|-------------|
| 1                            | 7-27-07191-1    | Scrub Deck (34")                    | 1           |
| 2                            | 7-08-00913      | Bracket - Brush Arm                 | 4           |
| 3                            | 7-08-00914      | Bracket Brush Load                  | 1           |
| 4                            | 7-03-04176      | Link - Brush Frame                  | 4           |
| 5                            | 2-00-04602      | Clamp                               | 2           |
| 6                            | 7-33-09034      | Hub Brush Driver                    | 2           |
| 7                            | 7-20-00006      | Brush Driver-Male with Hub          | 2           |
| 8                            | 7-23-03056      | Nut                                 | 8           |
| 9                            | 0785-088        | Reducer Assy (Ratio 18.5 to 1)      | 2           |
| 10                           | 0782-144        | Brush Motor                         | 2           |
| 11                           | 2-00-03169      | Spacer                              | 4           |
| 12                           | 2-00-00706      | ¼ sq x 1 ¼ Key                      | 2           |
| <b><u>HARDWARE USED:</u></b> |                 |                                     |             |
| H7                           | 2-00-00056      | Screw, #10-24 x .750 RHM            | 2           |
| H12                          | 2-00-01246      | Nut, Hex Insert Fiber #10 - 24      | 2           |
| H44                          | 2-00-00530      | Lock Washer, 5/16 HS Med.           | 8           |
| H46                          | 2-00-00644      | Nut, 5/16 - 18 Insert Fiber         | 10          |
| H48                          | 2-00-00233      | Screw, 3/8 - 16 x 1.000 HHC         | 6           |
| H53                          | 2-00-02310      | Lock Washer Helical Spring 3/8 Med. | 6           |
| H62                          | 2-00-00405      | Flat Washer, 1.063 x .531 x .094    | 3           |
| H64                          | 2-00-00596      | Nut, Hex ½ - 13 x .750 x .437       | 6           |
| H69                          | 2-00-01255      | Screw, 5/16 - 18 x .875 HHC         | 10          |
| H151                         | 2-00-00213      | Screw, 5/16 - 18 x .625 HHC         | 8           |
| H244                         | 2-00-05297      | Nut, Insert Fiber, .38-16 Heavy Nut | 1           |
| H245                         | 2-00-05401      | Shoulder Screw, ½-3/4               | 1           |
| H273                         | 2-00-03214      | Screw, .31 - 18 x .75 Zinc PL HSHC  | 2           |
| H305                         | 2-00-00809      | Screw, HSHC .31 - 18 x 1.00         | 8           |

C1809/9906

## SCRUB DECK ASSEMBLY (34") - EXPLODED VIEW



## SCRUB DECK ASSEMBLY (38") - PARTS LIST

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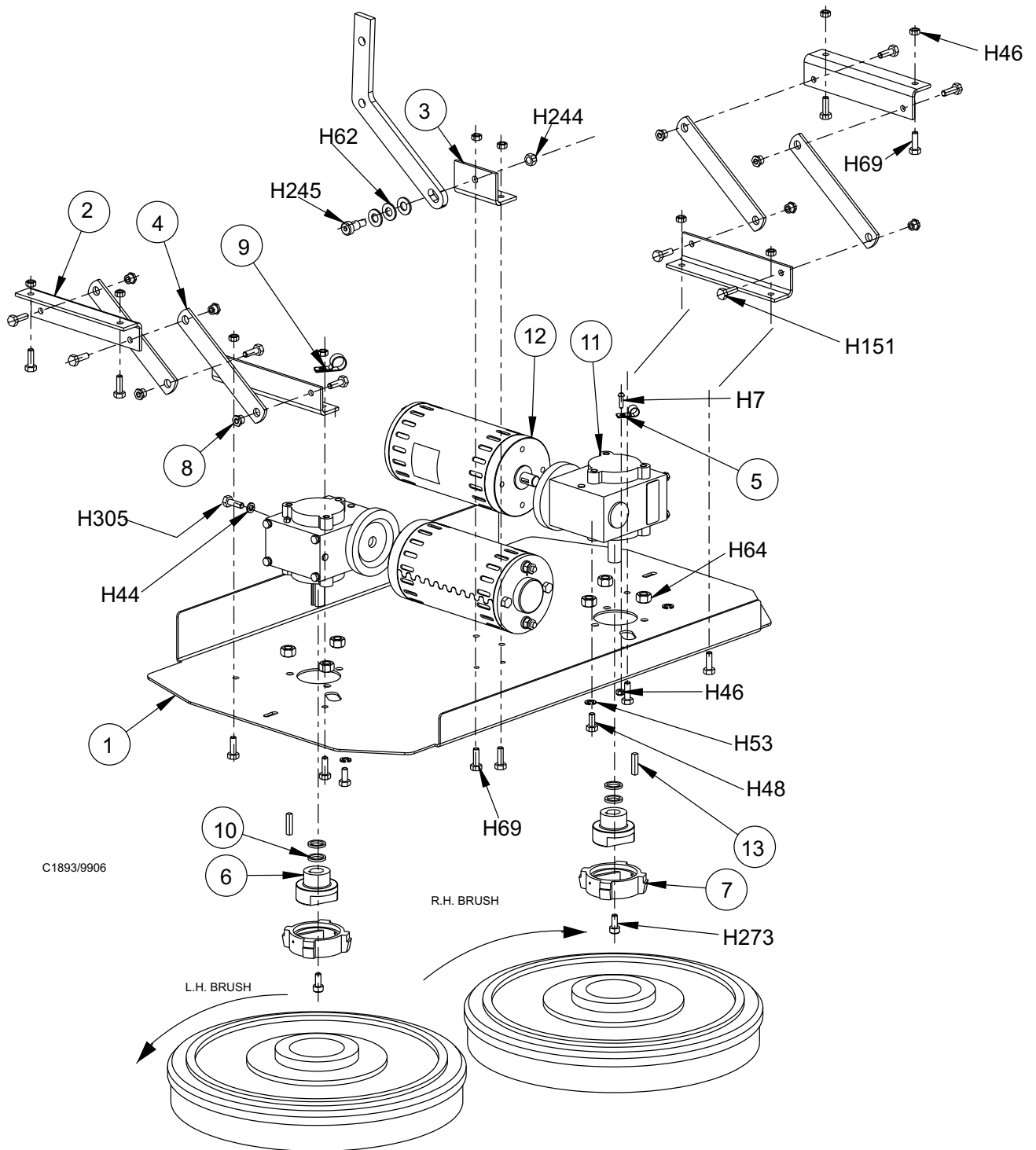
| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>             | <u>QTY.</u> |
|----------------|-----------------|--------------------------------|-------------|
| 1              | 7-27-07192-1    | Scrub Deck (38")               | 1           |
| 2              | 7-08-00913      | Bracket - Brush Arm            | 4           |
| 3              | 7-08-00914      | Bracket Brush Load             | 1           |
| 4              | 7-03-04176      | Link - Brush Frame             | 4           |
| 5              | 2-00-04602      | Clamp                          | 1           |
| 6              | 7-33-09034      | Hub Brush Driver               | 2           |
| 7              | 7-20-00006      | Brush Driver-Male with Hub     | 2           |
| 8              | 7-23-03056      | Nut                            | 8           |
| 9              | 8-13-07091      | Clamp                          | 1           |
| 10             | 2-00-03169      | Spacer                         | 4           |
| 11             | 0785-088        | Reducer Assy (Ratio 18.5 to 1) | 2           |
| 12             | 0782-144        | Brush Motor                    | 2           |
| 13             | 2-00-00706      | ¼ sq x 1 ¼ Key                 | 2           |

### HARDWARE USED:

|      |            |                                     |    |
|------|------------|-------------------------------------|----|
| H7   | 2-00-00056 | Screw, #10-24 x .750 RHM            | 1  |
| H12  | 2-00-01246 | Nut, Hex Insert Fiber #10 - 24      | 1  |
| H44  | 2-00-00530 | Lock Washer, 5/16 HS Med.           | 8  |
| H46  | 2-00-00644 | Nut, 5/16 - 18 Insert Fiber         | 10 |
| H48  | 2-00-00233 | Screw, 3/8 - 16 x 1.000 HHC         | 6  |
| H53  | 2-00-02310 | Lock Washer Helical Spring 3/8 Med. | 6  |
| H62  | 2-00-00405 | Flatwasher, 1.063 x .531 x .094     | 3  |
| H64  | 2-00-00596 | Nut, Hex ½ - 13 x .750 x .437       | 6  |
| H69  | 2-00-01255 | Screw, 5/16 - 18 x .875 HHC         | 10 |
| H151 | 2-00-00213 | Screw, 5/16 - 18 x .625 HHC         | 8  |
| H244 | 2-00-05297 | Nut, Insert Fiber, .38-16 Heavy Nut | 1  |
| H245 | 2-00-05401 | Shoulder Screw, ½-3/4               | 1  |
| H273 | 2-00-03214 | Screw, .31 - 18 x .75 Zinc PL HSHC  | 2  |
| H305 | 2-00-00809 | Screw, HSHC .31 - 18 x 1.00         | 8  |

C1893/9906

# SCRUB DECK ASSEMBLY (38") - EXPLODED VIEW



## BRUSHES AND PAD DRIVERS(34")

---

### PAD ASSEMBLY 17" (17520C)

| <u>PART NO.</u> | <u>DESCRIPTION</u>                            | <u>QTY.</u> |
|-----------------|-----------------------------------------------|-------------|
| 53135B          | Pad Driver, Molded Face 17" OD                | 1           |
| 833802          | Gimbal, Brush                                 | 1           |
| 838301          | Spring, Brush Holder                          | 1           |
| 962495          | Screw, 1/4 - 20 x 1                           | 6           |
| 56949A          | Center - Lok 3                                | 1           |
| 962737          | Screw, #8 x 5/8 pan HD. Phillips, Sheet Metal | 3           |

### BRUSH ASSEMBLY GRIT 17" (11425B)

| <u>PART NO.</u> | <u>DESCRIPTION</u>   | <u>QTY.</u> |
|-----------------|----------------------|-------------|
| 51462B          | Brush, Grit 17" OD   | 1           |
| 833802          | Gimbal, Brush        | 1           |
| 838301          | Spring, Brush Holder | 1           |
| 962495          | Screw, 1/4 - 20 x 1  | 6           |

### BRUSH ASSEMBLY POLY 17" (11424B)

| <u>PART NO.</u> | <u>DESCRIPTION</u>          | <u>QTY.</u> |
|-----------------|-----------------------------|-------------|
| 51461B          | Brush, Polypropylene 17" OD | 1           |
| 833802          | Gimbal, Brush               | 1           |
| 838301          | Spring, Brush Holder        | 1           |
| 962495          | Screw, 1/4 - 20 x 1         | 6           |

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**BRUSHES AND PAD DRIVERS(38")****PAD ASSEMBLY 19" (17524B)**

| <b><u>PART NO.</u></b> | <b><u>DESCRIPTION</u></b>                     | <b><u>QTY.</u></b> |
|------------------------|-----------------------------------------------|--------------------|
| 53143B                 | Pad Driver, Molded Face 19" OD                | 1                  |
| 833802                 | Gimbal, Brush                                 | 1                  |
| 838301                 | Spring, Brush Holder                          | 1                  |
| 962495                 | Screw, ¼ - 20 x 1                             | 6                  |
| 56949A                 | Center - Lok 3                                | 1                  |
| 962737                 | Screw, #8 x 5/8 pan HD. Phillips, Sheet Metal | 3                  |

**BRUSH ASSEMBLY 19" (11433B)**

| <b><u>PART NO.</u></b> | <b><u>DESCRIPTION</u></b> | <b><u>QTY.</u></b> |
|------------------------|---------------------------|--------------------|
| 51477B                 | Brush, Grit 19" OD        | 1                  |
| 833802                 | Gimbal, Brush             | 1                  |
| 838301                 | Spring, Brush Holder      | 1                  |
| 962495                 | Screw, ¼ - 20 x 1         | 6                  |

**BRUSH ASSEMBLY 19" (11433B)**

| <b><u>PART NO.</u></b> | <b><u>DESCRIPTION</u></b>   | <b><u>QTY.</u></b> |
|------------------------|-----------------------------|--------------------|
| 51478B                 | Brush, Polypropylene 19" OD | 1                  |
| 833802                 | Gimbal, Brush               | 1                  |
| 838301                 | Spring, Brush Holder        | 1                  |
| 962495                 | Screw, ¼ - 20 x 1           | 6                  |

## **SQUEEGEE LIFT ASSEMBLY - PARTS LIST**

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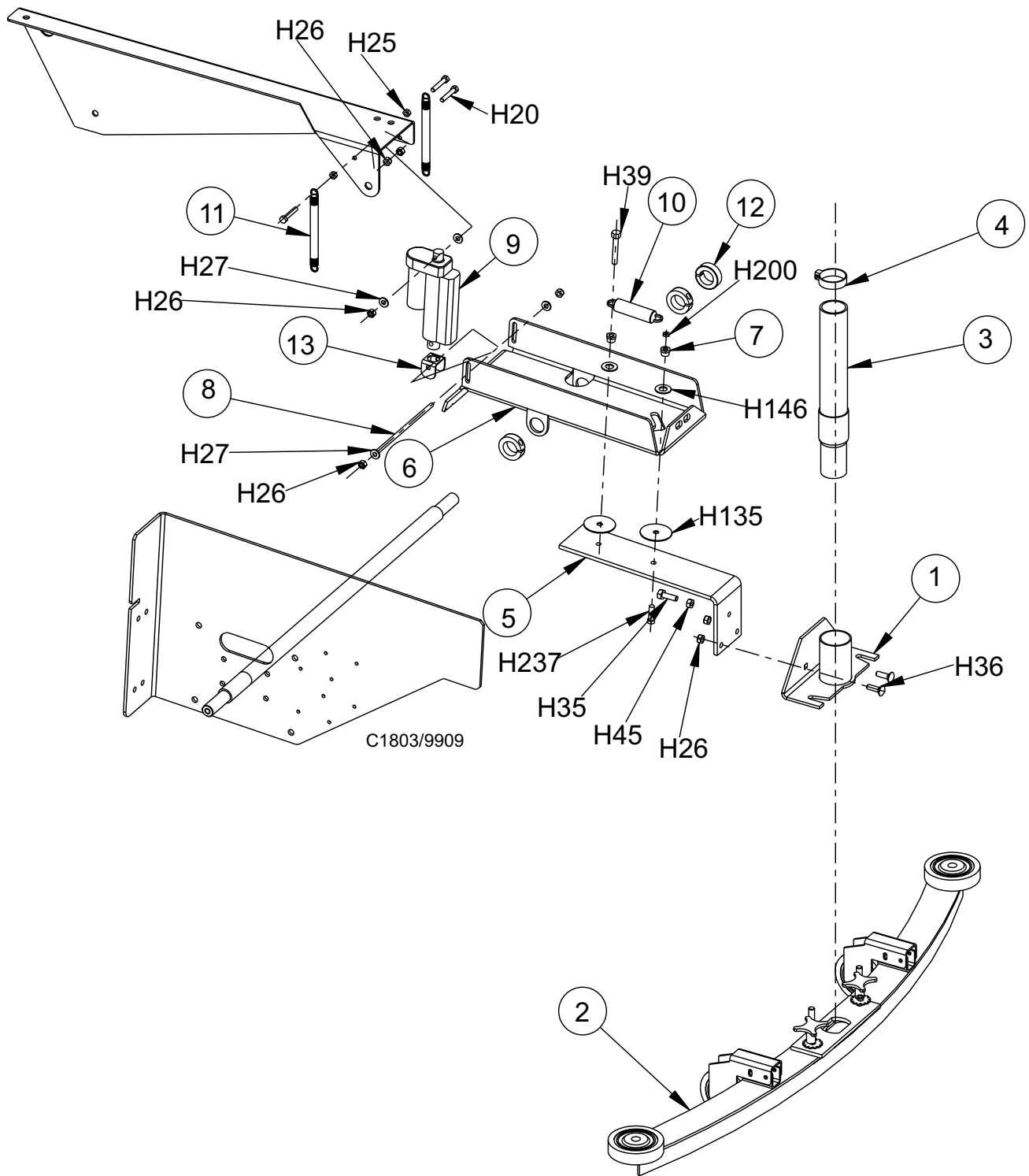
| <b><u>KEY NO.</u></b> | <b><u>PART NO.</u></b> | <b><u>DESCRIPTION</u></b>        | <b><u>QTY.</u></b> |
|-----------------------|------------------------|----------------------------------|--------------------|
| 1                     | 7-25-02096             | Fitting                          | 1                  |
| 2                     | 0760-537               | Kit Squeegee, 41" Encore R (34") | 1                  |
| 2                     | 0760-538               | Kit Squeegee, 47" Encore R (38") | 1                  |
| 3                     | 7-33-02377             | Hose                             | 1                  |
| 4                     | 2-00-02216             | Hose Clamp                       | 1                  |
| 5                     | 7-03-04171             | Arm - Squeegee Lift              | 1                  |
| 6                     | 7-08-00908             | Bracket-Squeegee Lift            | 1                  |
| 7                     | 7-23-03056             | Nut                              | 2                  |
| 8                     | 7-80-05081             | Threaded Rod                     | 1                  |
| 9                     | 0782-139               | Actuator                         | 1                  |
| 10                    | 8-76-00045             | Spring                           | 1                  |
| 11                    | 7-76-00102             | Spring                           | 2                  |
| 12                    | 2-00-04321             | Clamp Collar                     | 3                  |
| 13                    | 7-08-02021             | Bracket, Squeegee Actuator       | 1                  |

### **HARDWARE USED:**

|      |            |                                    |   |
|------|------------|------------------------------------|---|
| H20  | 2-00-00203 | Screw, 1/4-20 x 1.500 HHC          | 3 |
| H25  | 2-00-00594 | Nut, Hex 1/4-2- x .437 x .218      | 2 |
| H26  | 2-00-00641 | Nut, 1/2-20 Fiber Insert           | 5 |
| H27  | 2-00-03702 | Washer, .625 x .281 x .063         | 4 |
| H35  | 2-00-02708 | Screw, 5/16 - x 1.000 HHM          | 1 |
| H36  | 2-00-00196 | Carriage Bolt, 5/16 - 18 x 1.000   | 2 |
| H39  | 2-00-00218 | Screw, 5/16 - 18 x 2.000 HHC       | 1 |
| H45  | 2-00-00585 | Nut, Hex 5/16 - 18 x .500 x .265   | 1 |
| H46  | 2-00-00644 | Nut, 5/16 - 18 Insert Fiber        | 2 |
| H135 | 2-00-05298 | Flat Washer, .344 x 2.000 x .062   | 2 |
| H146 | 2-00-00420 | Flat Washer, 1.000 x .516 x .063   | 2 |
| H200 | 2-00-00626 | Nut, Hex MS #10 - 32 x .375 x .125 | 1 |
| H237 | 2-00-05356 | Screw, 5/16 - 18 x 1.25 Grade 8    | 1 |

C1803/9909

## SQUEEGEE LIFT ACTUATOR - EXPLODED VIEW



## SIDE SQUEEGEE (34") - PARTS LIST

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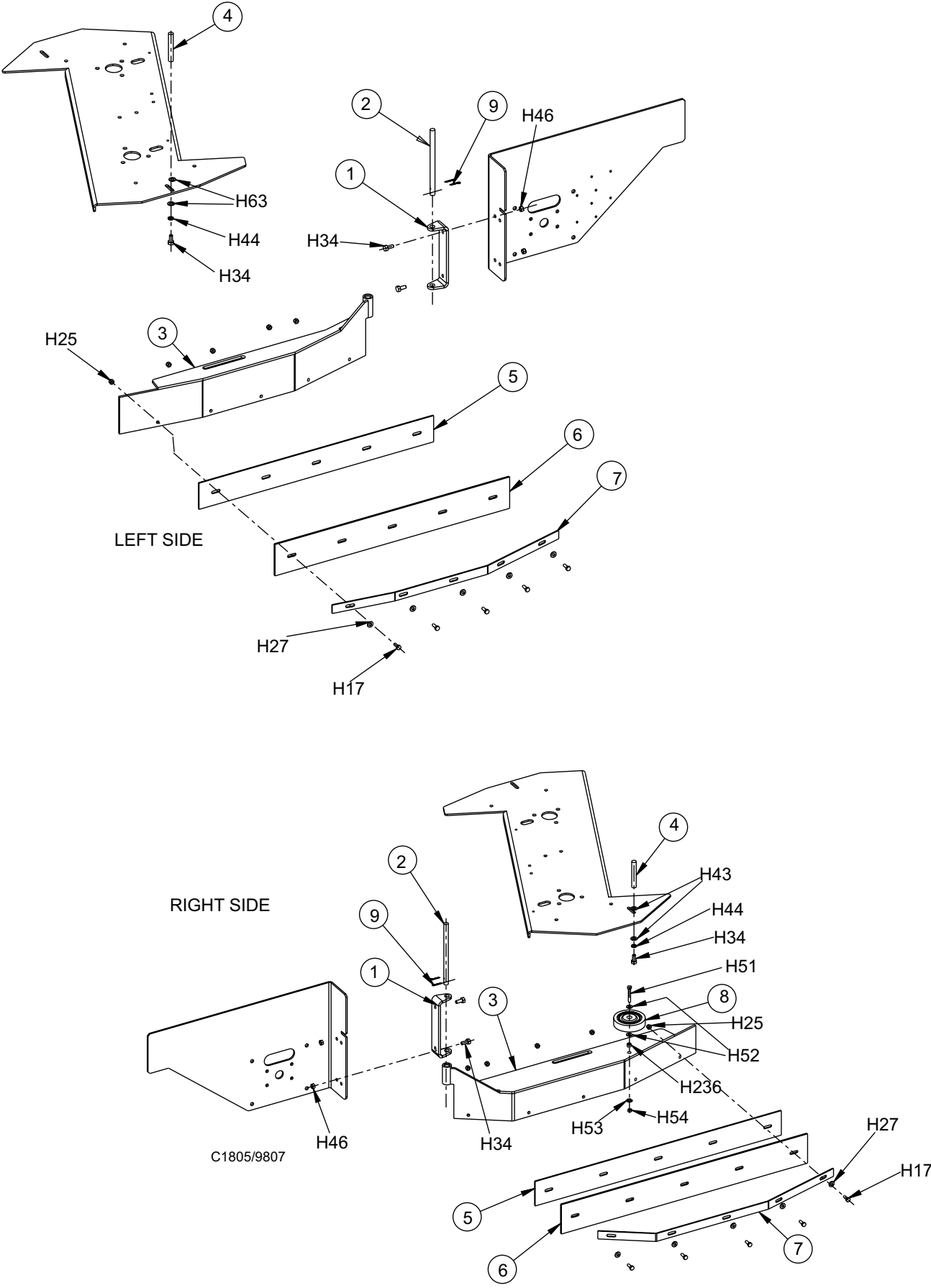
| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>               | <u>QTY.</u> |
|----------------|-----------------|----------------------------------|-------------|
| 1              | 7-57-05047      | Pivot-Side Squeegee              | 2           |
| 2              | 7-55-08153      | Pin-Side Squeegee                | 2           |
| 3              | 7-86-08054      | Tool-RH Side Squeegee (Weldment) | 1           |
| 3              | 7-86-08052      | Tool-LH Side Squeegee (Weldment) | 1           |
| 4              | 7-55-08154      | Pin-Side Squeegee Lock           | 2           |
| 5              | 7-77-00118      | Rubber-RH Side Squeegee (Inner)  | 1           |
| 5              | 7-77-00119      | Rubber-LH Side Squeegee (Inner)  | 1           |
| 6              | 7-77-00121      | Rubber-RH Side Squeegee (Outer)  | 1           |
| 6              | 7-77-00120      | Rubber-LH Side Squeegee (Outer)  | 1           |
| 7              | 7-13-07182      | Clamp-RH Side Squeegee           | 1           |
| 7              | 7-13-07183      | Clamp-LH Side Squeegee           | 1           |
| 8              | 7-89-08023      | Roller                           | 1           |
| 9              | 2-00-05249      | Hair Pin (Cotter)                | 4           |

### HARDWARE USED:

|      |            |                                 |    |
|------|------------|---------------------------------|----|
| H17  | 2-00-00205 | Screw, ¼ - 20 x 1.000 HHC       | 5  |
| H25  | 2-00-00594 | Nut, Hex 1/4-20 x .437 x .218   | 1  |
| H27  | 2-00-03702 | Washer, .625 x .281 x .063      | 12 |
| H34  | 2-00-00208 | Screw, 5/16-18 x .750 HHC       | 2  |
| H43  | 2-00-00409 | Flat Washer, .687 x .344 x .062 | 2  |
| H44  | 2-00-00530 | Lock Washer, 5/16 HS Med        | 1  |
| H46  | 2-00-00644 | Nut, 5/16-18 Insert Fiber       | 2  |
| H51  | 2-00-00216 | Screw, 3/8 - 16 x 2.000 HHC     | 1  |
| H52  | 2-00-00402 | Flat Washer, .750 x .390 x .094 | 2  |
| H53  | 2-00-02310 | Lock Washer, HS 3/8 Med.        | 1  |
| H54  | 2-00-02360 | Nut, 3/8 - 16 Hex               | 1  |
| H236 | 2-00-02369 | Nut, Hex Jam .38 - 16           | 1  |

C1805/9807

**SIDE SQUEEGEE (34") - EXPLODED VIEW**



## **SIDE SQUEEGEE (38") - PARTS LIST**

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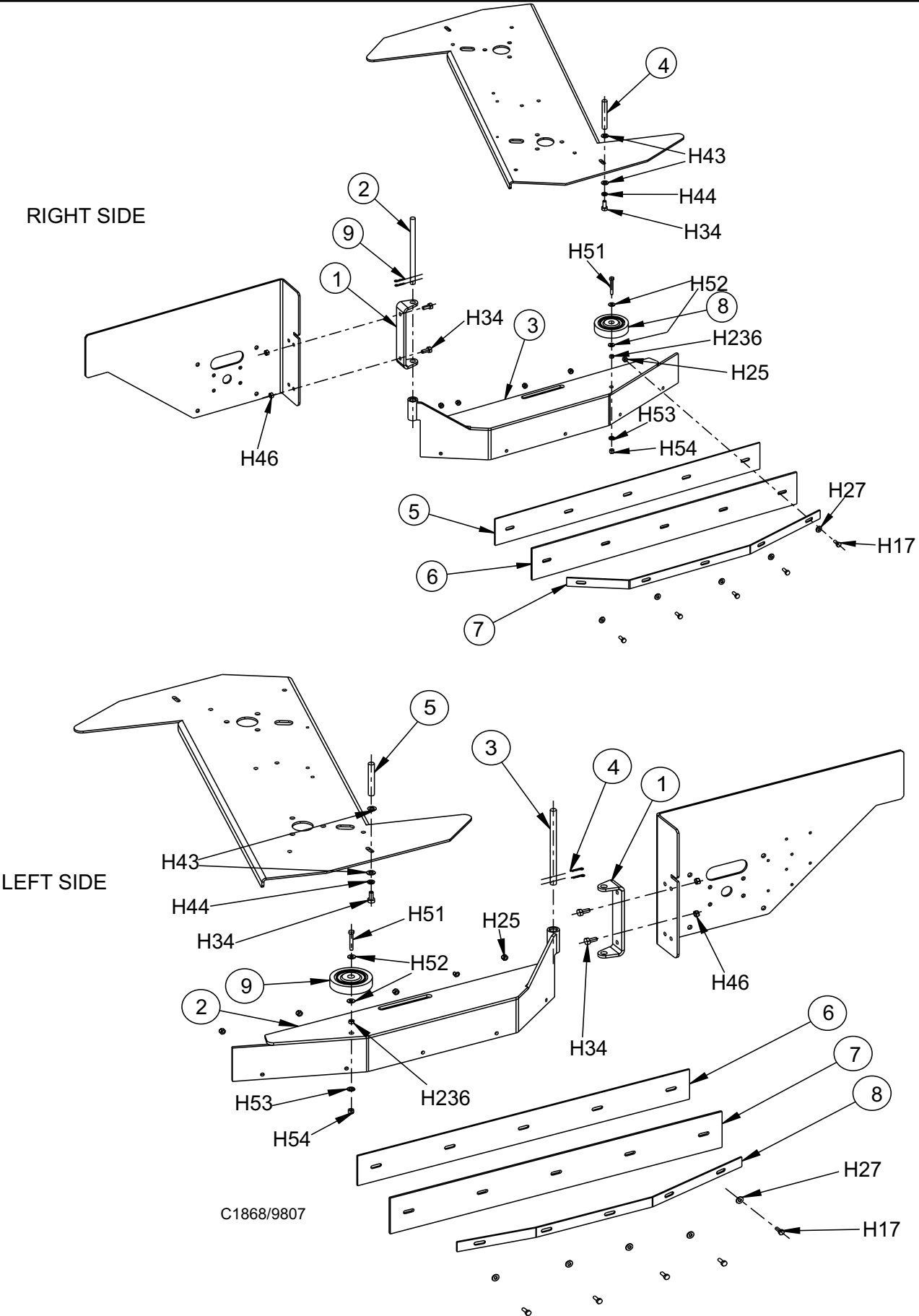
| <b><u>KEY NO.</u></b> | <b><u>PART NO.</u></b> | <b><u>DESCRIPTION</u></b>              | <b><u>QTY.</u></b> |
|-----------------------|------------------------|----------------------------------------|--------------------|
| 1                     | 7-57-05047             | Pivot - Side Squeegee                  | 2                  |
| 2                     | 7-55-08153             | Pin Side Squeegee                      | 2                  |
| 3                     | 7-86-08053             | Tool - RH Side Squeegee (Weldment 38") | 1                  |
| 3                     | 7-86-08055             | Tool - LH Side Squeegee (Weldment 38") | 1                  |
| 4                     | 7-55-08154             | Pin - Side Squeegee Lock               | 2                  |
| 5                     | 7-77-00118             | Rubber - Side Squeegee (Inner)         | 2                  |
| 6                     | 7-77-00121             | Rubber - Side Squeegee (Outer)         | 2                  |
| 7                     | 7-13-07182             | Clamp RH Side Squeegee                 | 1                  |
| 7                     | 7-13-07183             | Clamp LH Side Squeegee                 | 1                  |
| 8                     | 7-89-08023             | Wheel                                  | 2                  |
| 9                     | 2-00-05249             | Hair Pin - Cotter                      | 2                  |

### **HARDWARE USED:**

|      |            |                                      |    |
|------|------------|--------------------------------------|----|
| H17  | 2-00-00205 | Screw, 1/4 - 20 x 1.000 HHC          | 5  |
| H25  | 2-00-00594 | Nut, Hex 1/4-20 x .437 x .218        | 1  |
| H27  | 2-00-03702 | Washer, .625 x .281 x .063           | 12 |
| H34  | 2-00-00208 | Screw, 5/16-18 x .750 HHC            | 2  |
| H43  | 2-00-00409 | Flat Washer, .687 x .344 x .062      | 2  |
| H44  | 2-00-00530 | Lock Washer, 5/16 HS Med             | 1  |
| H46  | 2-00-00644 | Nut, 5/16-18 Insert Fiber            | 2  |
| H51  | 2-00-00216 | Screw, 3/8 - 16 x 2.000 HHC          | 1  |
| H52  | 2-00-00402 | Flat Washer, .750 x .390 x .094      | 2  |
| H53  | 2-00-02310 | Lock Washer, Helical Spring 3/8 Med. | 1  |
| H54  | 2-00-02360 | Nut, 3/8 - 16 Hex                    | 1  |
| H236 | 2-00-02369 | Nut, Hex Jam .38 - 16                | 1  |

C1868/9807

**SIDE SQUEEGEE (38") - EXPLODED VIEW**



## REAR SQUEEGEE (34" & 38") - PARTS LIST

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| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>           | <u>QTY.</u> |
|----------------|-----------------|------------------------------|-------------|
| 1              | 7-77-00116      | Rubber - Inner Squeegee (38) | 1           |
| 1*             | 7-77-00123      | Rubber - Inner Squeegee (34) | 1           |
| 2              | 7-77-00096      | Blade - Outer Squeegee       | 1           |
| 3              | 7-13-07195      | Clamp - Squeegee             | 1           |
| 4*             | 7-29-00243      | Gasket - Tool Inlet          | 1           |
| 5              | 7-13-07192      | Clamp - End, Squeegee (LH)   | 1           |
| 6              | 2-00-01116      | Weld Nut (Elongated)         | 2           |
| 7              | 7-13-07191      | Clamp - End, Squeegee (RH)   | 1           |
| 8*             | 2-00-04962      | O-Ring                       | 2           |
| 9*             | 18816K          | Squeegee                     | 1           |

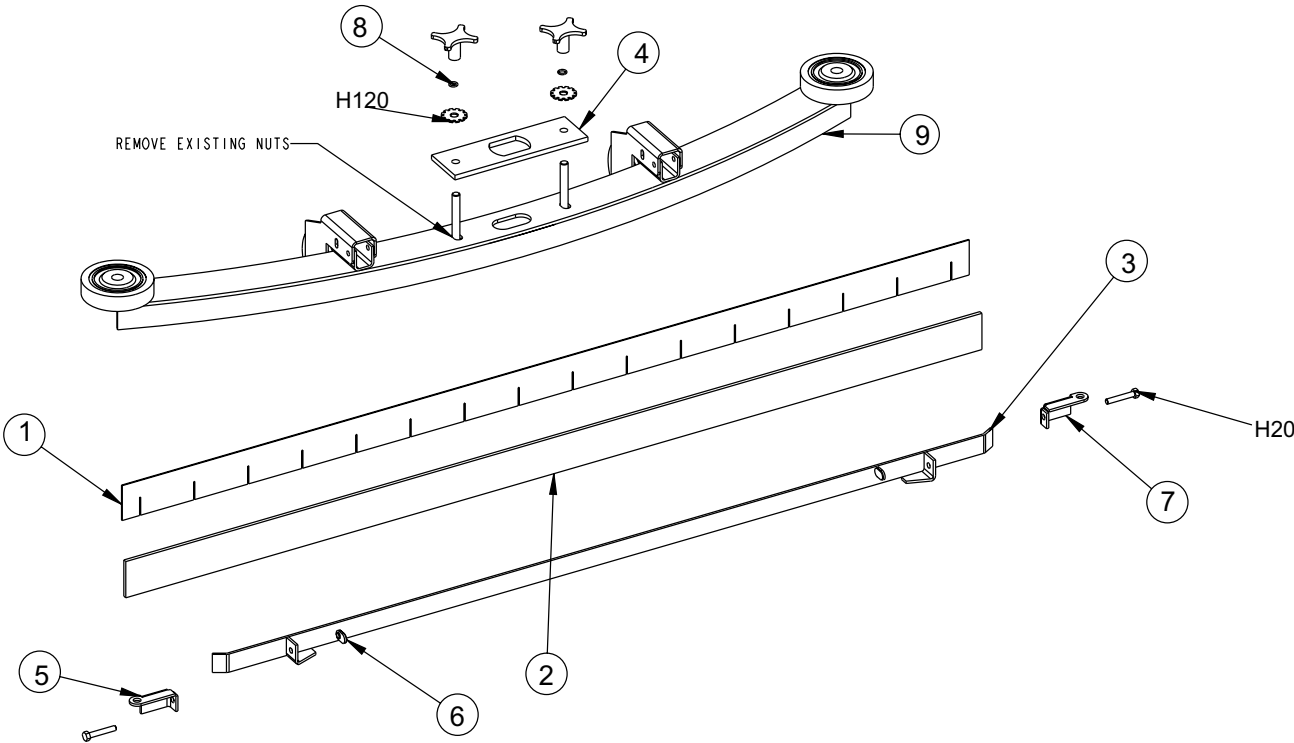
\*These are the only parts used for the 34" Rear Squeegee Kit, they (all but 1\*) are also used on 38".

### HARDWARE USED:

|      |            |                            |   |
|------|------------|----------------------------|---|
| H20* | 2-00-00203 | Screw, 1/4 - 20 x 1.500HHC | 2 |
| H120 | 2-00-03829 | Lock Washer, 3/8 Bolt      | 2 |

C1866/9903

REAR SQUEEGEE (34" & 38") - EXPLODED VIEW



## SEAT ASSEMBLY - PARTS LIST

---

| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>            | <u>QTY.</u> |
|----------------|-----------------|-------------------------------|-------------|
| 1              | 7-52-00168      | Panel-Seat Pedestal(Weldment) | 1           |
| 2              | 7-16-07406      | Seat Deck (Weldment)          | 1           |
| 3              | 7-72-05005      | Seat Adjuster Kit             | 1           |
| 4              | 7-69-00004      | Seat                          | 1           |
| 5              | 8-51-05016      | Pan-Battery                   | 1           |
| 6              | 7-66-00186      | Rod-Seat Panel                | 1           |
| 7              | 0875-101        | Power Cable                   | 1           |
| 8              | 7-16-07405      | Cover - Side                  | 1           |
| 9              | 7-16-07404      | Cover - Side                  | 1           |
| 10             | 8-06-05004      | Terminal Block                | 2           |
| 11             | 8-21-04016      | Edging                        | 1           |
| 12             | 8-21-04050      | Edging                        | 1           |
| 13             | 7-39-00006      | Knob                          | 1           |
| 14             | 8-75-01205      | Spacer, Blower Mounting       | 2           |

### HARDWARE USED:

|      |            |                                    |    |
|------|------------|------------------------------------|----|
| H7   | 2-00-00056 | Screw, #10 - 24 x .750 RHM         | 2  |
| H11  | 2-00-00605 | Nut, Hex MS #10 - 24 x .375 x .25  | 2  |
| H20  | 2-00-00203 | Screw, 1/4-20 x 1.500 HHC          | 2  |
| H25  | 2-00-00594 | Nut, Hex 1/4 - 20 x .437 x .218    | 4  |
| H26  | 2-00-00641 | Nut, 1/4-20 Fiber Insert           | 4  |
| H27  | 2-00-03702 | Washer, .625 x .281 x .063         | 8  |
| H35  | 2-00-02702 | Screw, 5/16-18 x 1.000 HHM         | 5  |
| H43  | 2-00-00409 | Flat Washer, .687 x .344 x .062    | 8  |
| H46  | 2-00-00644 | Nut, 5/16-18 Fiber Insert          | 10 |
| H159 | 2-00-00512 | Lock Washer                        | 2  |
| H185 | 2-00-02588 | Screw, 1/4 - 20 x 1.125 HHC Cad Pl | 2  |
| H229 | 2-00-01490 | Screw, .25 - 20 x .875 HHC STL     | 2  |

C1816/0003

C1816/0003

DETAIL A  
SCALE .25

ATTACH HARNESS WIRES HERE

ATTACH POWER CABLE HERE

## VACUUM ASSEMBLY - PARTS LIST

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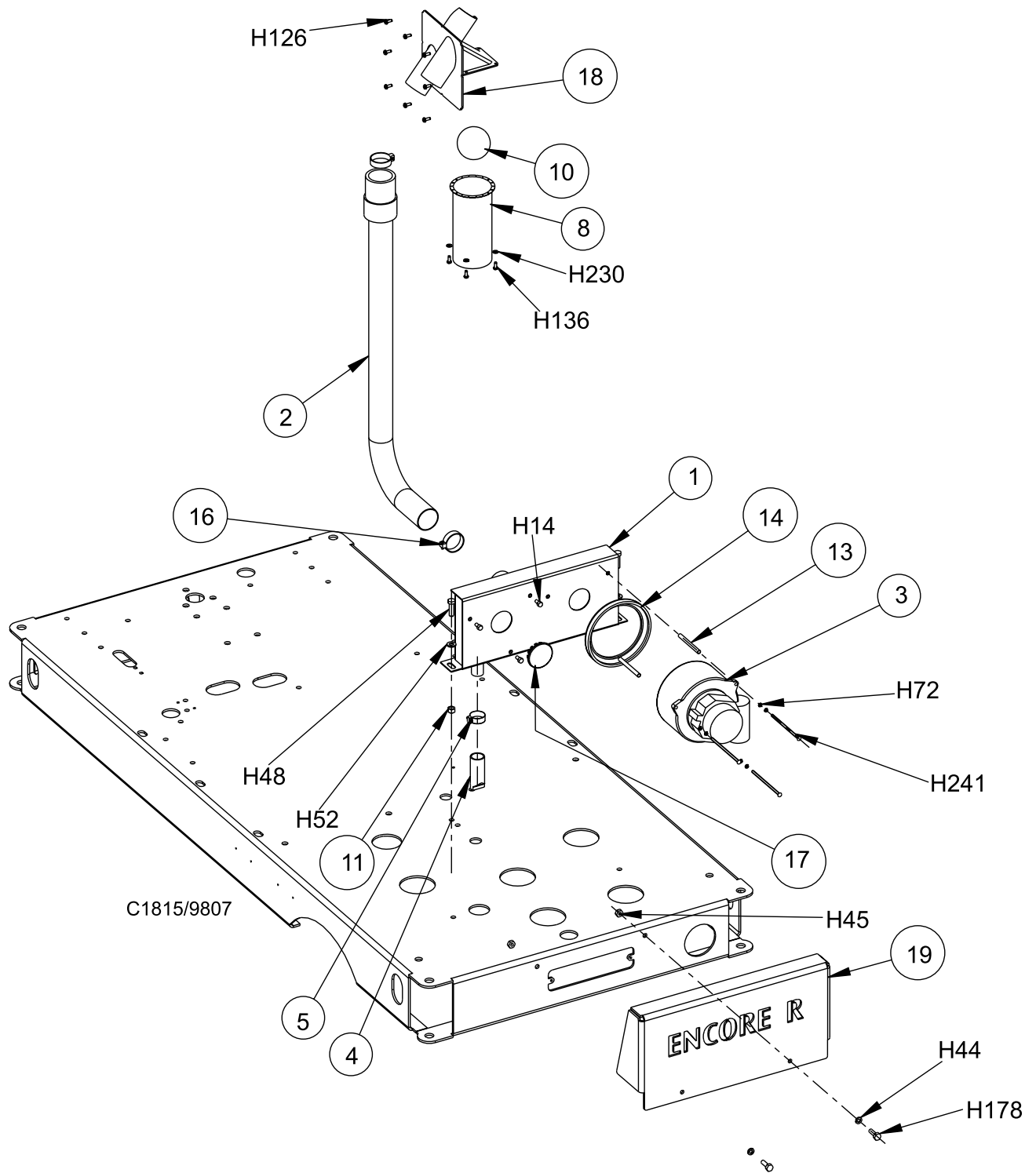
| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>  | <u>QTY.</u> |
|----------------|-----------------|---------------------|-------------|
| 1              | 7-48-00033-1    | Vac Manifold        | 1           |
| 2              | 7-33-02373      | Flexible Hose       | 1           |
| 3              | 0782-124        | Vac Fan             | 1           |
| 4              | 8-88-00016      | Dust Unloader Valve | 1           |
| 5              | 2-00-02220      | Hose Clamp          | 1           |
| 6              |                 |                     |             |
| 7              |                 |                     |             |
| 8              | 7-10-04008      | Float Cage          | 1           |
| 9              |                 |                     |             |
| 10             | 7-26-04012      | Float Ball          | 1           |
| 11             | 2-95-04182      | Nut                 | 2           |
| 12             |                 |                     |             |
| 13             | 7-75-01184      | Spacer              | 3           |
| 14             | 2-22-00003      | Vac Fan Gasket      | 1           |
| 15             |                 |                     |             |
| 16             | 2-00-02216      | Hose Clamp          | 3           |
| 17             | 2-00-04431      | Cover               | 1           |
| 18             | 7-58-05285-1    | Plate-Vac Inlet     | 1           |
| 19             | 7-30-05103-1    | Guard-Vac Motor     | 1           |

### HARDWARE USED:

|      |            |                                  |   |
|------|------------|----------------------------------|---|
| H14  | 2-00-00219 | Screw, 1/4-20 x 2.000 HHC        | 3 |
| H44  | 2-00-00530 | Lock Washer, 5/16 HS Med         | 2 |
| H45  | 2-00-00585 | Nut, Hex 5/16 - 18 x .500 x .265 | 2 |
| H48  | 2-00-00233 | Screw, 3/8-16 x 1.000 HHC        | 2 |
| H52  | 2-00-00402 | Flat Washer, .750 x .390 x .094  | 2 |
| H72  | 2-00-00518 | Lock Washer, Helical Spring      | 6 |
| H126 | 2-00-03466 | Screw, #10 - 16 x .500           | 8 |
| H136 | 2-00-03940 | Screw, #10-24 x .500 T/C HHC     | 4 |
| H178 | 2-00-00206 | Screw, 5/16 - 18 x 1.000 HHC     | 2 |
| H230 | 2-00-00466 | Flat Washer, .625 x .203 x .031  | 4 |

C1815/9807

## VACUUM ASSEMBLY - EXPLODED VIEW



## FORWARD/REVERSE PEDAL - PARTS LIST

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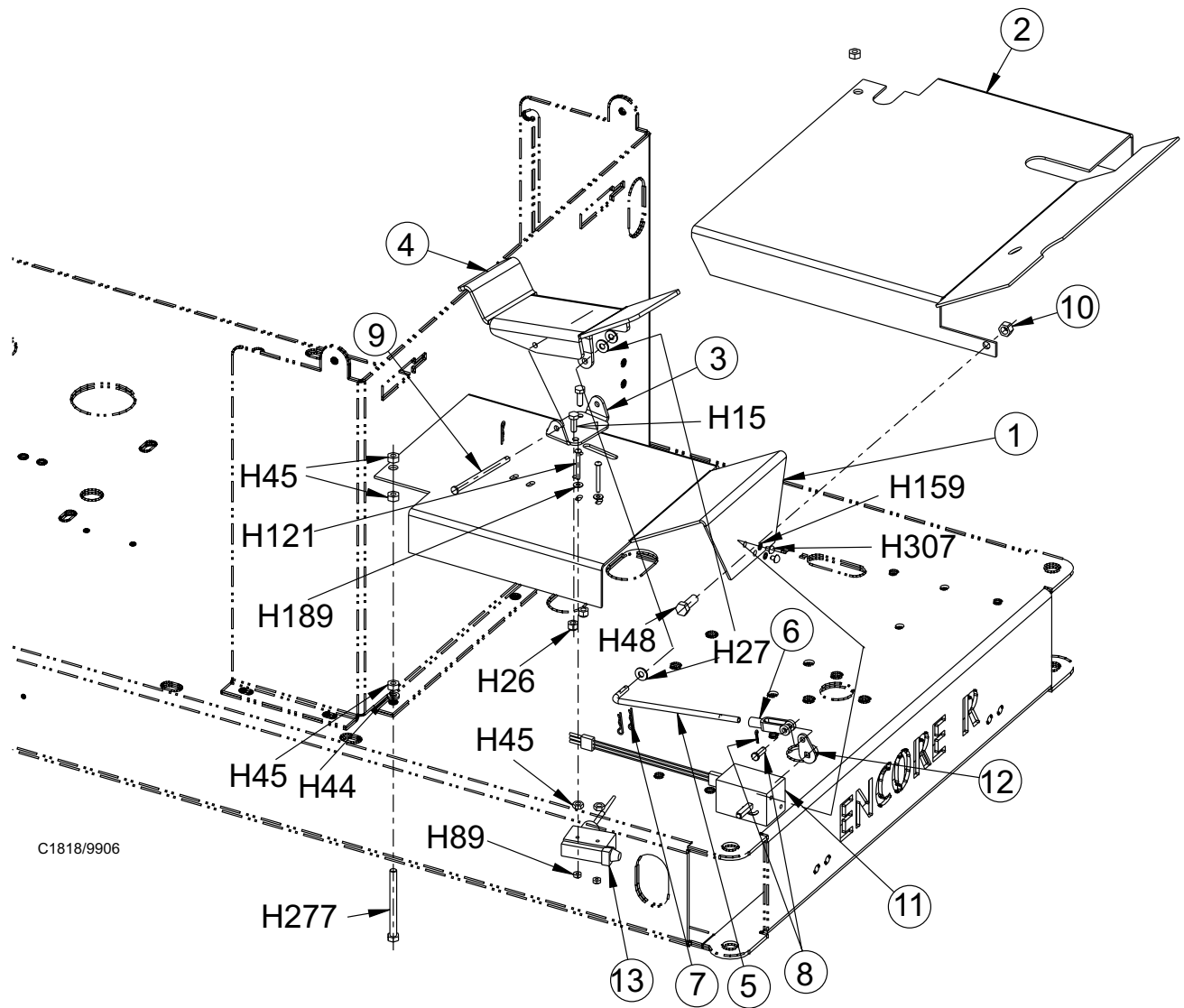
| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>         | <u>QTY.</u> |
|----------------|-----------------|----------------------------|-------------|
| 1              | 7-81-00222      | Support - FWD/REV Pedal    | 1           |
| 2              | 7-52-00166      | Panel - Floor              | 1           |
| 3              | 7-57-05049      | Pivot - FWD/REV Pedal      | 1           |
| 4              | 7-55-00027-1    | Pedal - FWD/REV            | 1           |
| 5              | 7-42-05165      | Link - Potentiometer       | 1           |
| 6              | 8-14-01006      | Clevis                     | 1           |
| 7              | 2-00-05249      | Hair Pin-Cotter            | 3           |
| 8              | 2-00-04909      | Pin-Clevis                 | 1           |
| 9              | 2-00-05408      | Pin - Foot Pedal           | 1           |
| 10             | 2-95-04182      | Nut, 3/8 - 16 Elastic Stop | 1           |
| 11             | 0775-230        | Controller - FWD/REV       | 1           |
| 12             | 7-03-04196      | Arm - FWD/REV Controller   | 1           |
| 13             | 8-82-00058      | Switch                     | 1           |

### HARDWARE USED:

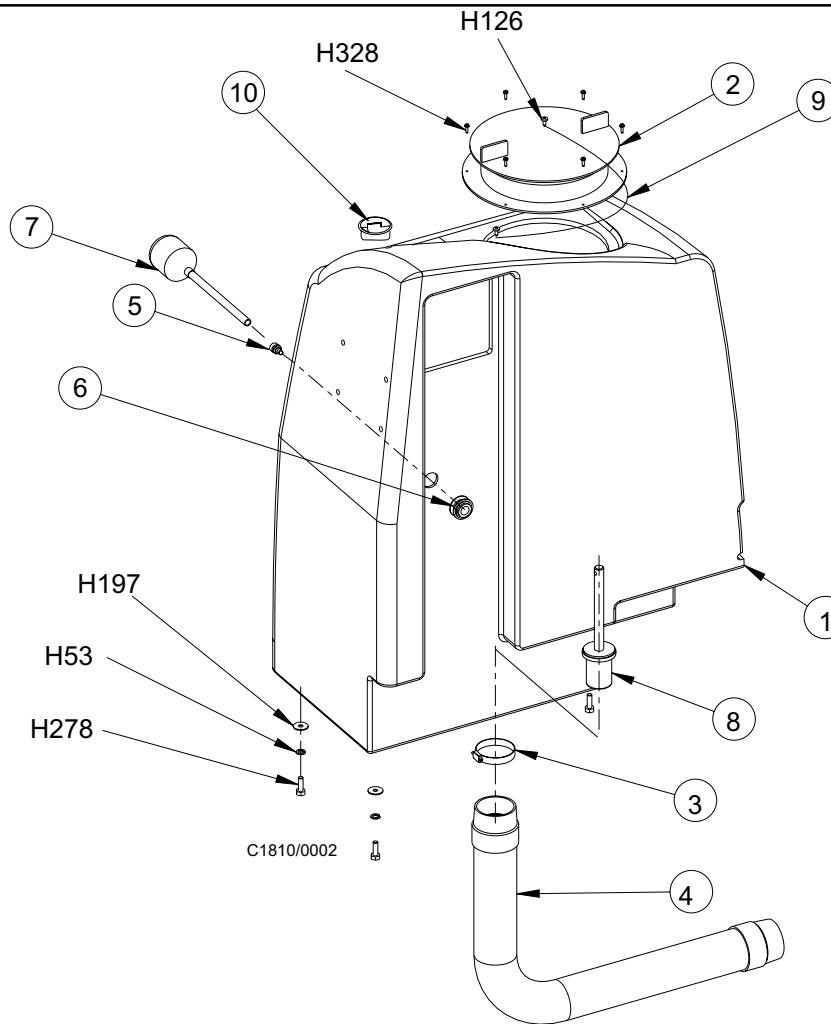
|      |            |                                   |   |
|------|------------|-----------------------------------|---|
| H15  | 2-00-00221 | Screw ¼ - 20 x .750 HHC           | 2 |
| H26  | 2-00-00641 | Nut, 1/4-20 Fiber Insert          | 2 |
| H27  | 2-00-03702 | Washer, .625 x .281 x .063        | 3 |
| H44  | 2-00-00530 | Lock Washer, 5/16 HS Med.         | 2 |
| H45  | 2-00-00585 | Nut, Hex 5/16 - 18 x .500 x .265  | 6 |
| H47  | 2-00-00232 | Screw, 3/8 - 16 x .750 HHC        | 1 |
| H89  | 2-00-01372 | Nut, Fiber Insert #8-32 Steel     | 2 |
| H121 | 2-00-00090 | Screw, #8-32 x 1.500 RHM          | 2 |
| H159 | 2-00-00512 | Lock Washer                       | 2 |
| H165 | 2-00-00589 | Nut, Hex Jam, .25-20              | 2 |
| H189 | 2-00-00460 | Flat Washer, .437 x .192 x .031-s | 2 |
| H277 | 2-00-05164 | Screw, HHM 5/16 - 18 3.50         | 2 |
| H307 | 2-00-02963 | Screw, RHM #10-32 ¼ Pl. (Steel)   | 2 |

C1818/9906

## FORWARD/REVERSE PEDAL - EXPLODED VIEW



## RECOVERY TANK

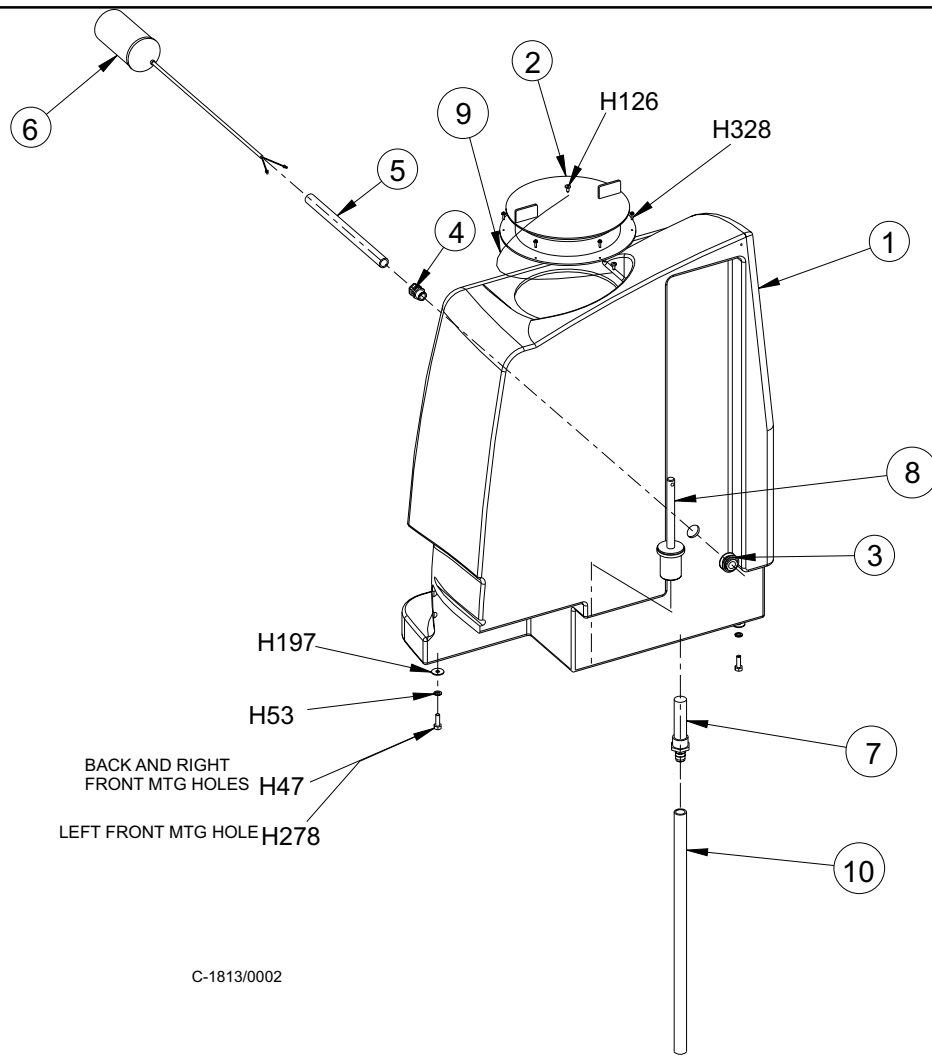


| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>      | <u>QTY.</u> |
|----------------|-----------------|-------------------------|-------------|
| 1              | 7-83-04173      | Recovery Tank           | 1           |
| 2              | 7-16-07399      | Cover - Tank Access     | 1           |
| 3              | 2-00-02217      | Hose Clamp              | 1           |
| 4              | 7-33-02378      | Hose - Drain            | 1           |
| 5              | 7-09-01122      | Bushing                 | 1           |
| 6              | 7-09-01124      | Bulk Head Fitting       | 1           |
| 7              | 0775-164        | Float Switch (Rev Gray) | 1           |
| 8              | 7-25-02095      | Drain Plug Assy.        | 1           |
| 9              | 7-13-05064      | Chain                   | 1           |
| 10             | 7-25-02098      | Plug - Pull             | 1           |

### HARDWARE USED:

|      |            |                                      |   |
|------|------------|--------------------------------------|---|
| H47  | 2-00-00232 | Screw, 3/8 - 16 x .750 HHC           | 2 |
| H53  | 2-00-02310 | Lock Washer, Helical Spring 3/8 Med. | 3 |
| H126 | 2-00-03466 | Screw, #10 - 16 x .500               | 2 |
| H197 | 2-00-03979 | Washer, 1.00 x .391 x .06            | 3 |
| H278 | 2-00-03044 | Screw, .38 - 16 x .75 HSHC           | 1 |
| H328 | 2-00-04062 | Screw, T/FFH #8 - 15 x .75 Type A    | 6 |

C1810/0002



C-1813/0002

| KEY NO. | PART NO.   | DESCRIPTION         | QTY. |
|---------|------------|---------------------|------|
| 1       | 7-83-04174 | Solution Tank       | 1    |
| 2       | 7-16-07399 | Cover-Tank Access   | 1    |
| 3       | 7-09-01124 | Bulk Head Fitting   | 1    |
| 4       | 7-09-01122 | Bushing             | 1    |
| 5       | 7-87-02191 | Tube-Float Switch   | 1    |
| 6       | 0775-217   | Float Switch        | 1    |
| 7       | 7-24-04053 | Filter-Solution     | 1    |
| 8       | 7-25-02095 | Drain Plug Assembly | 1    |
| 9       | 2-00-05064 | Chain               | 1    |
| 10      | 7-33-02374 | Hose-Solution       | Ref. |

**HARDWARE USED:**

|      |            |                                     |   |
|------|------------|-------------------------------------|---|
| H47  | 2-00-00232 | Screw, 3/8-16 x .750 HHC            | 2 |
| H53  | 2-00-02310 | Lockwasher, Helical Spring 3/8 Med. | 3 |
| H126 | 2-00-03466 | Screw, #10-16 x .500                | 2 |
| H197 | 2-00-03979 | Washer 1.00 x .391 x .06            | 3 |
| H278 | 2-00-03044 | Screw, .38 - 16 x .75 HSHC          | 1 |
| H328 | 2-00-01994 | Screw, TF/PRH #8 - 15 x .75 Type A  | 6 |

C1813/0002

## SOLUTION CONTROL - PARTS LIST

---

| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>      | <u>QTY.</u> |
|----------------|-----------------|-------------------------|-------------|
| 1              | 8-13-07003      | Clamp                   | 1           |
| 2              | 7-88-00073      | Valve-Solution          | 1           |
| 3              | 7-25-02053      | Fitting-Straight        | 1           |
| 4              | 7-25-02037      | Fitting-Tee             | 1           |
| 5              | 2-00-05406      | Fitting-Elbow           | 2           |
| 6              | 2-00-02220      | Hose Clamp              | 6           |
| 7              | 2-95-04388      | Hose Clamp              | 2           |
| 8              | 7-33-02374      | Hose-Solution Feed      | 2           |
| 9              | 7-33-02376      | Hose-Solution Feed (RH) | 1           |
| 10             | 7-33-02379-1    | Hose-Solution Feed (LH) | 1           |
| 11             | 7-33-02394      | Hose                    | 3"          |
| 12             | 2-00-05380      | Elbow                   | 1           |
| 13             | 8-21-04016      | Bumper                  | 1           |

### HARDWARE USED:

|     |            |                            |   |
|-----|------------|----------------------------|---|
| H26 | 2-00-00641 | Nut, 1/4-20 Fiber Insert   | 4 |
| H27 | 2-00-03702 | Washer, .625 x .281 x .063 | 2 |

C1822/9906

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## INSTRUMENT POWER PANEL - PARTS LIST

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| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>             | <u>QTY.</u> |
|----------------|-----------------|--------------------------------|-------------|
| 1              | 7-52-00165-1    | Panel-Dash                     | Ref.        |
| 2              | 8-82-00041      | Key-Switch                     | 1           |
| 3              | 0775-231        | Controller                     | 1           |
| 4              | 8-74-00014      | Solenoid-Power Panel           | 1           |
| 5              | 2-00-04825      | Solenoid                       | 3           |
| 6              | 8-06-05004      | Fuse Block                     | 3           |
| 7              | 8-28-05019      | Fuse-70 Amp                    | 1           |
| 8              | 7-64-00035      | Module                         | 1           |
| 9              | 46309A          | Relay                          | 1           |
| 10             | 7-82-00042      | Switch-Squeegee                | 1           |
| 11             | 7-82-00041      | Switch-Brush Deck              | 1           |
| 12             | 2-00-04942      | Hole Plug                      | 1           |
| 13             | 7-48-05029      | Hour Meter                     | 1           |
| 14             | 7-48-05024      | Condition Meter                | 1           |
| 15             | 2-00-05375      | Switch-Blank                   | 1           |
| 16             | 7-32-03018      | Fuse Holder                    | 1           |
| 17             | 8-08-00539      | Bracket                        | 1           |
| 18             | 7-28-05013      | Fuse-2 Amp SB                  | 1           |
|                | 0760-536        | Wire & Harness Kit (Not Shown) |             |

### HARDWARE USED:

|      |            |                                     |    |
|------|------------|-------------------------------------|----|
| H6   | 2-00-00049 | Screw, #10-24 x .500 RHM            | 4  |
| H7   | 2-00-00056 | Screw, #10-24 x .750 RHM            | 3  |
| H10  | 2-00-00519 | Lock Washer, #10 Med HS             | 2  |
| H11  | 2-00-00605 | Nut, Hex MS #10-24x .375 x .125     | 2  |
| H12  | 2-00-01246 | Nut, Hex Fiber Insert #10-24        | 6  |
| H15  | 2-00-00221 | Screw, 1/4-20 x .750 HHC            | 3  |
| H24  | 2-00-00220 | Screw, 1/4-20 x .625 HHC            | 6  |
| H25  | 2-00-00594 | Nut, Hex 1/4-20 x .437 x .218       | 3  |
| H26  | 2-00-00641 | Nut, 1/4-20 Insert Fiber            | 12 |
| H27  | 2-00-03702 | Washer, .625 x .281 x .063          | 12 |
| H62  | 2-00-00405 | Flat Washer, 1.063 x .531 x .094    | 1  |
| H124 | 2-00-02296 | Lock Washer, #10 Ext. Shaker proof  | 2  |
| H159 | 2-00-00512 | Lock Washer                         | 3  |
| H187 | 2-00-00071 | Screw, #10-24 x 1.250 RHM           | 2  |
| H188 | 2-00-01987 | Flat Washer, .438 x .200 x .036 SST | 2  |
| H222 | 2-00-02848 | Screw, 10-32 x .50 Cad Pl. STL RHM  | 2  |

C1830/9909

This diagram is an exploded view of a mechanical assembly, showing various components and their assembly points. The parts are numbered 1 through 18. Callouts include H1, H2, H3, H4, H5, H6, H7, H8, H9, H10, H11, H12, H13, H14, H15, H16, H17, H18, H19, H20, H21, H22, H23, H24, H25, H26, H27, H28, H29, H30, H31, H32, H33, H34, H35, H36, H37, H38, H39, H40, H41, H42, H43, H44, H45, H46, H47, H48, H49, H50, H51, H52, H53, H54, H55, H56, H57, H58, H59, H60, H61, H62, H63, H64, H65, H66, H67, H68, H69, H70, H71, H72, H73, H74, H75, H76, H77, H78, H79, H80, H81, H82, H83, H84, H85, H86, H87, H88, H89, H90, H91, H92, H93, H94, H95, H96, H97, H98, H99, H100, H101, H102, H103, H104, H105, H106, H107, H108, H109, H110, H111, H112, H113, H114, H115, H116, H117, H118, H119, H120, H121, H122, H123, H124, H125, H126, H127, H128, H129, H130, H131, H132, H133, H134, H135, H136, H137, H138, H139, H140, H141, H142, H143, H144, H145, H146, H147, H148, H149, H150, H151, H152, H153, H154, H155, H156, H157, H158, H159, H160, H161, H162, H163, H164, H165, H166, H167, H168, H169, H170, H171, H172, H173, H174, H175, H176, H177, H178, H179, H180, H181, H182, H183, H184, H185, H186, H187, H188, H189, H190, H191, H192, H193, H194, H195, H196, H197, H198, H199, H200, H201, H202, H203, H204, H205, H206, H207, H208, H209, H210, H211, H212, H213, H214, H215, H216, H217, H218, H219, H220, H221, H222, H223, H224, H225, H226, H227, H228, H229, H230, H231, H232, H233, H234, H235, H236, H237, H238, H239, H240, H241, H242, H243, H244, H245, H246, H247, H248, H249, H250, H251, H252, H253, H254, H255, H256, H257, H258, H259, H260, H261, H262, H263, H264, H265, H266, H267, H268, H269, H270, H271, H272, H273, H274, H275, H276, H277, H278, H279, H280, H281, H282, H283, H284, H285, H286, H287, H288, H289, H290, H291, H292, H293, H294, H295, H296, H297, H298, H299, H300, H301, H302, H303, H304, H305, H306, H307, H308, H309, H310, H311, H312, H313, H314, H315, H316, H317, H318, H319, H320, H321, H322, H323, H324, H325, H326, H327, H328, H329, H330, H331, H332, H333, H334, H335, H336, H337, H338, H339, H340, H341, H342, H343, H344, H345, H346, H347, H348, H349, H350, H351, H352, H353, H354, H355, H356, H357, H358, H359, H360, H361, H362, H363, H364, H365, H366, H367, H368, H369, H370, H371, H372, H373, H374, H375, H376, H377, H378, H379, H380, H381, H382, H383, H384, H385, H386, H387, H388, H389, H390, H391, H392, H393, H394, H395, H396, H397, H398, H399, H400, H401, H402, H403, H404, H405, H406, H407, H408, H409, H410, H411, H412, H413, H414, H415, H416, H417, H418, H419, H420, H421, H422, H423, H424, H425, H426, H427, H428, H429, H430, H431, H432, H433, H434, H435, H436, H437, H438, H439, H440, H441, H442, H443, H444, H445, H446, H447, H448, H449, H450, H451, H452, H453, H454, H455, H456, H457, H458, H459, H460, H461, H462, H463, H464, H465, H466, H467, H468, H469, H470, H471, H472, H473, H474, H475, H476, H477, H478, H479, H480, H481, H482, H483, H484, H485, H486, H487, H488, H489, H490, H491, H492, H493, H494, H495, H496, H497, H498, H499, H500, H501, H502, H503, H504, H505, H506, H507, H508, H509, H510, H511, H512, H513, H514, H515, H516, H517, H518, H519, H520, H521, H522, H523, H524, H525, H526, H527, H528, H529, H530, H531, H532, H533, H534, H535, H536, H537, H538, H539, H540, H541, H542, H543, H544, H545, H546, H547, H548, H549, H550, H551, H552, H553, H554, H555, H556, H557, H558, H559, H560, H561, H562, H563, H564, H565, H566, H567, H568, H569, H570, H571, H572, H573, H574, H575, H576, H577, H578, H579, H580, H581, H582, H583, H584, H585, H586, H587, H588, H589, H590, H591, H592, H593, H594, H595, H596, H597, H598, H599, H600, H601, H602, H603, H604, H605, H606, H607, H608, H609, H610, H611, H612, H613, H614, H615, H616, H617, H618, H619, H620, H621, H622, H623, H624, H625, H626, H627, H628, H629, H630, H631, H632, H633, H634, H635, H636, H637, H638, H639, H640, H641, H642, H643, H644, H645, H646, H647, H648, H649, H650, H651, H652, H653, H654, H655, H656, H657, H658, H659, H660, H661, H662, H663, H664, H665, H666, H667, H668, H669, H670, H671, H672, H673, H674, H675, H676, H677, H678, H679, H680, H681, H682, H683, H684, H685, H686, H687, H688, H689, H690, H691, H692, H693, H694, H695, H696, H697, H698, H699, H700, H701, H702, H703, H704, H705, H706, H707, H708, H709, H710, H711, H712, H713, H714, H715, H716, H717, H718, H719, H720, H721, H722, H723, H724, H725, H726, H727, H728, H729, H730, H731, H732, H733, H734, H735, H736, H737, H738, H739, H740, H741, H742, H743, H744, H745, H746, H747, H748, H749, H750, H751, H752, H753, H754, H755, H756, H757, H758, H759, H760, H761, H762, H763, H764, H765, H766, H767, H768, H769, H770, H771, H772, H773, H774, H775, H776, H777, H778, H779, H780, H781, H782, H783, H784, H785, H786, H787, H788, H789, H790, H791, H792, H793, H794, H795, H796, H797, H798, H799, H800, H801, H802, H803, H804, H805, H806, H807, H808, H809, H810, H811, H812, H813, H814, H815, H816, H817, H818, H819, H820, H821, H822, H823, H824, H825, H826, H827, H828, H829, H830,

**INSTRUMENT POWER PANEL (cont.) - PARTS LIST**

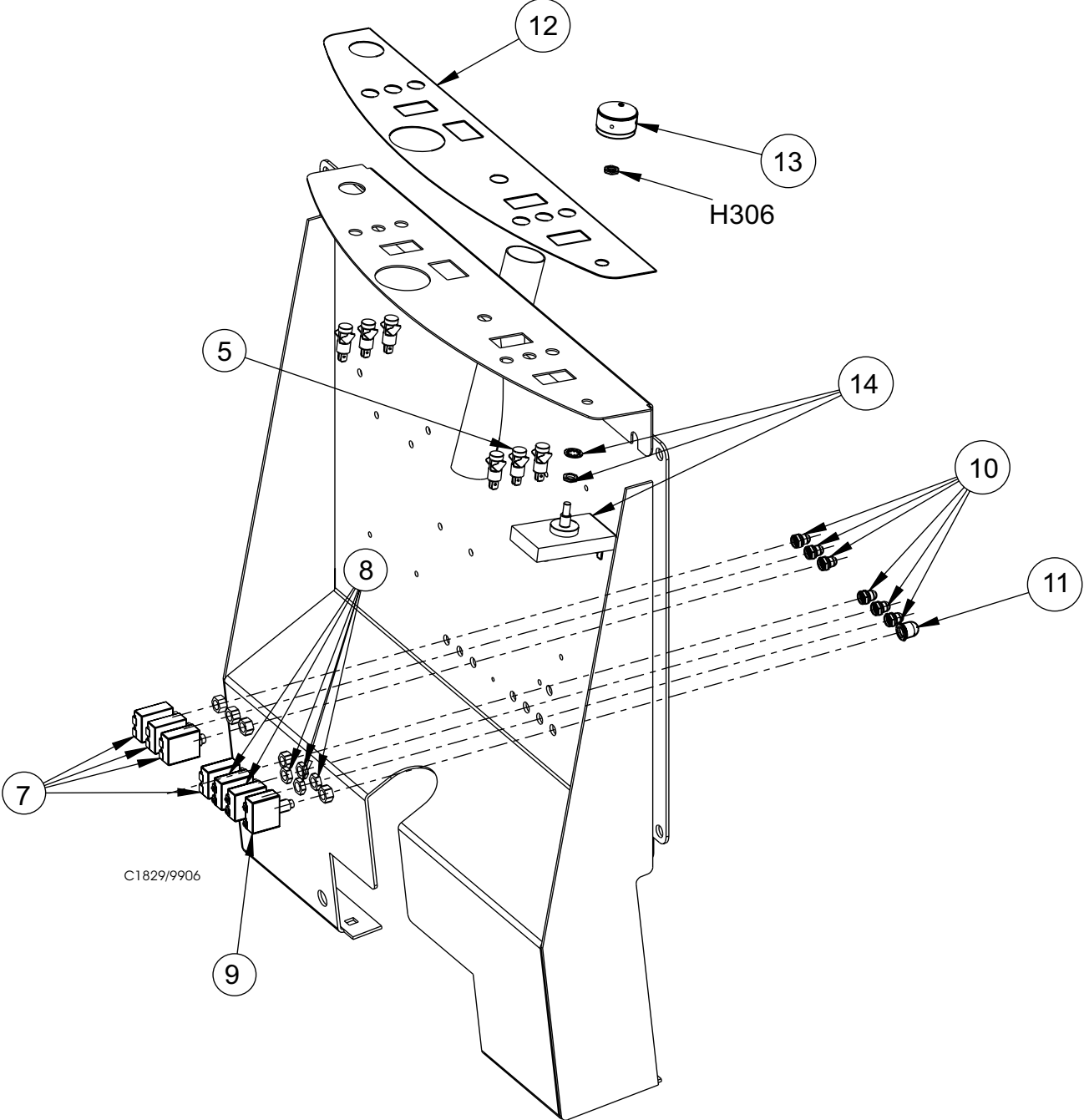
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| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>        | <u>QTY.</u> |
|----------------|-----------------|---------------------------|-------------|
| 1              |                 |                           |             |
| 2              |                 |                           |             |
| 3              |                 |                           |             |
| 4              |                 |                           |             |
| 5              | 7-40-05038      | Light-Amber               | 6           |
| 6              |                 |                           |             |
| 7              | 8-64-00007      | Circuit Breaker-10A       | 4           |
| 8              | 7-64-00020      | Circuit Breaker-45A       | 2           |
| 9              | 7-64-00025      | Circuit Breaker-25A       | 1           |
| 10             | 8-11-00044      | Boot-Circuit Breaker      | 6           |
| 11             | 8-11-00051      | Boot-Circuit Breaker      | 1           |
| 12             | 7-18-00260-1    | Decal                     | 1           |
| 13             | 7-39-00028      | Knob-Solution Flow Module | 1           |
| 14             | 7-64-00034      | Module-Solution Flow      | 1           |

**HARDWARE USED:**

|     |            |                   |   |
|-----|------------|-------------------|---|
| H52 | 2-00-05405 | Nut, 3/8-32 NEF2A | 1 |
|-----|------------|-------------------|---|

C1829/9909

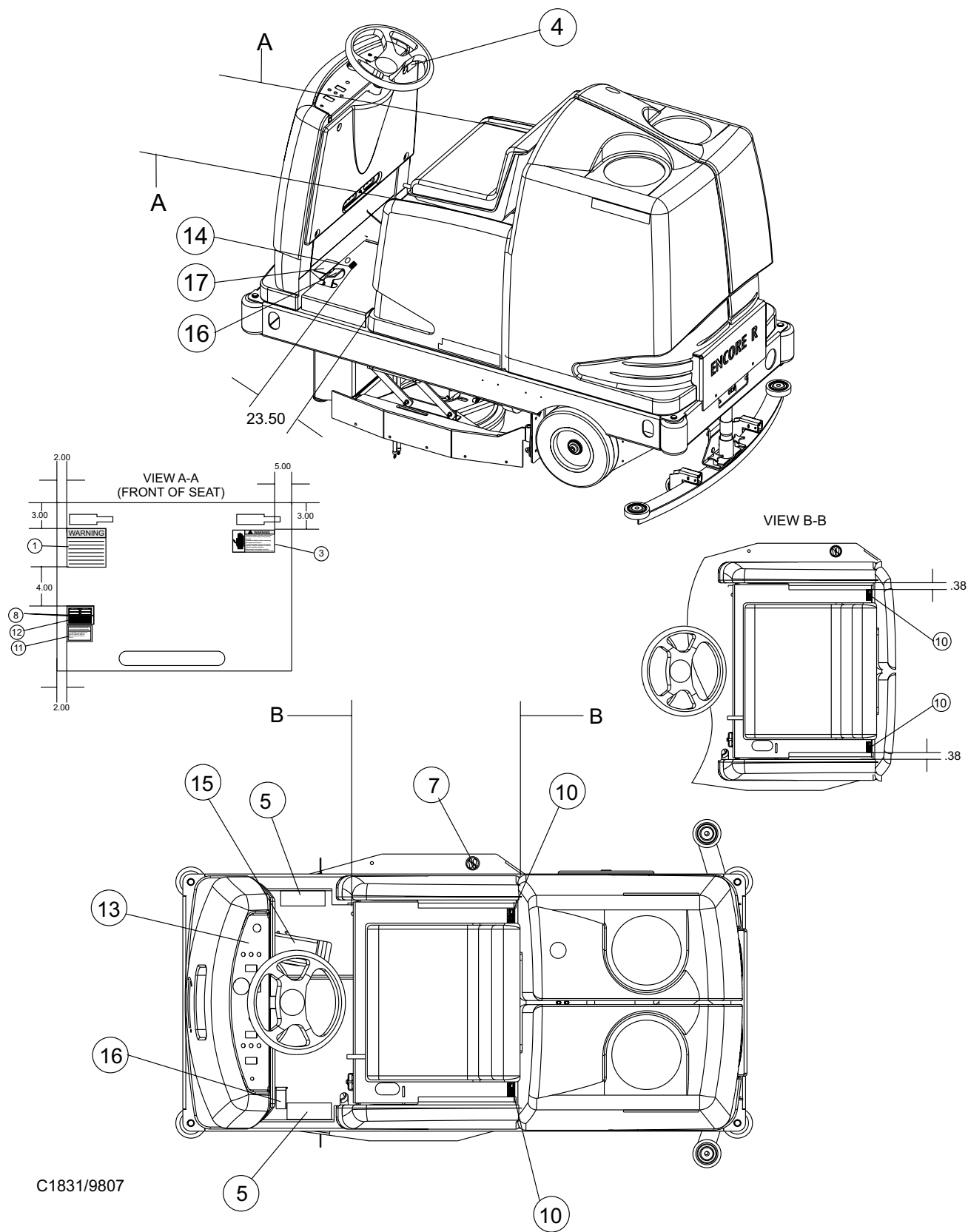


## DECALS - PARTS LIST

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| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>       | <u>QTY.</u> |
|----------------|-----------------|--------------------------|-------------|
| 1              | 8-18-00396      | Decal-General            | 1           |
| 2              |                 |                          |             |
| 3              | 7-18-00227      | Decal-Electrical Hazard  | 2           |
| 4              | 8-18-00395      | Decal-Key Switch Warning | 1           |
| 5              | 8-50-05022      | Pad, Non Skid            | 4           |
| 6              | 7-18-00261      | Decal - Circuit Breaker  | 1           |
| 7              | 7-18-00236      | Decal - No Step          | 2           |
| 8              | 2-00-04115      | Pop Rivets               | 2           |
| 9              | 8-18-00392      | Decal Safety Latch       | 1           |
| 10             | 8-18-00402      | Decal-Pinch Point        | 2           |
| 11             | 7-18-00228      | Decal-Patent             | 1           |
| 12             | 8-50-00014      | Serial Number Plate      | 1           |
| 13             | 7-18-00260-1    | Decal-Instrument Panel   | Ref.        |
| 14             | 7-18-00262      | Decal-Horn               | 1           |
| 15             | 8-50-05055      | Pad, Non-Skid FWD/REV    | 1           |
| 16             | 7-50-05145      | Pad, Brake Pedal         | 1           |
| 17             | 8-50-05030      | Pad, Brake Lock          | 1           |

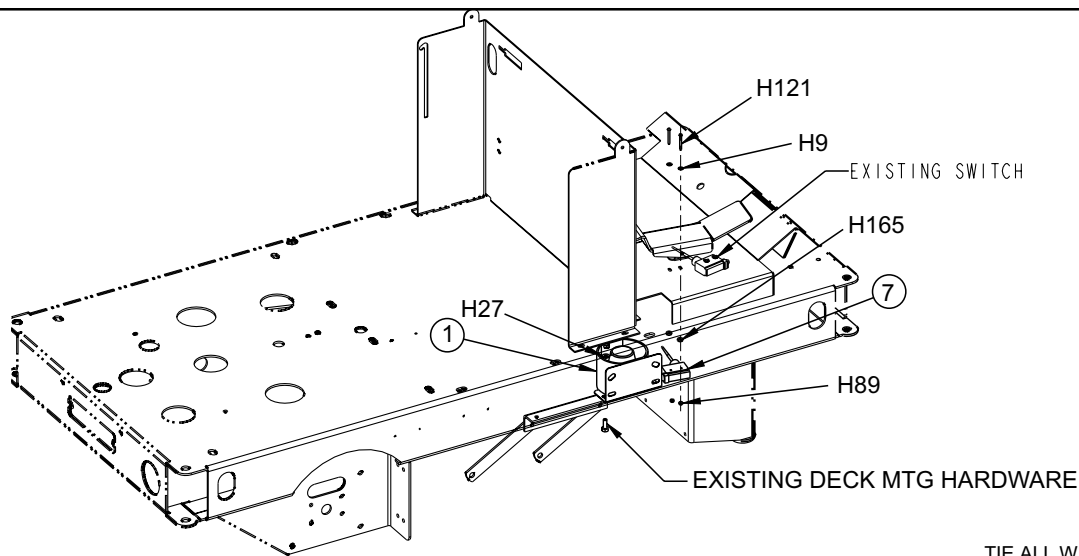
C1831/9907



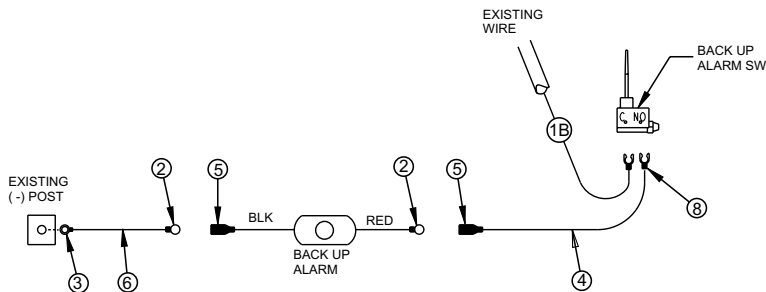
**OPTIONS**

|                                           |      |
|-------------------------------------------|------|
| Back-Up Alarm .....                       | 3-2  |
| Light Package .....                       | 3-3  |
| Overhead Guard .....                      | 3-4  |
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| Strobe Light Without Overhead Guard ..... | 3-7  |
| Dual Vacuum System .....                  | 3-9  |
| Arm Rest Option .....                     | 3-10 |
| Main Broom Sweeper Option .....           | 3-11 |
| Broom Drive Sweeper Option .....          | 3-13 |
| Fire Extinguisher .....                   | 3-15 |
| Seat Switch Kit .....                     | 3-16 |
| Frame and Flaps Option .....              | 3-17 |
| ESP Recovery Option .....                 | 3-19 |
| Hopper Sweeper Option (Plastic) .....     | 3-20 |
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| Dust Control Sweeper Option .....         | 3-23 |
| Spray Wand Option .....                   | 3-25 |
| Squeegee Wand Option .....                | 3-27 |
| Battery Option 228 A. H. ....             | 3-28 |
| Battery Option 330 A. H. ....             | 3-29 |
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| Spare Parts Kits 34" & 38" & CE Kit ..... | 3-33 |
| Index .....                               | 3-34 |
| Warranty .....                            | 3-37 |

# BACK-UP ALARM



TIE ALL WIRES TO  
HARNESS USING ITEM #9



C1823

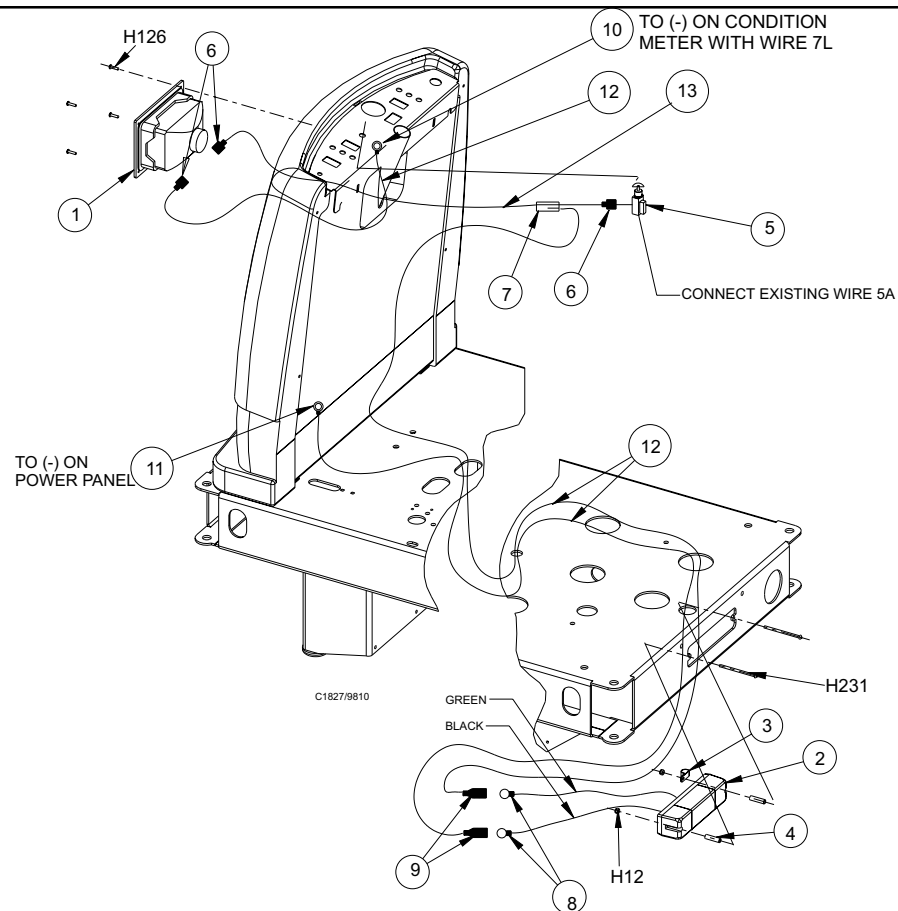
## OPTION 0780-422

| KEY NO. | PART NO.   | DESCRIPTION            | QTY. |
|---------|------------|------------------------|------|
| 1       | 8-32-09009 | Back-Up Alarm          | 1    |
| 2       | 2-00-04578 | Terminal-Bullet (Male) | 2    |
| 3       | 2-00-04282 | Terminal- Ring         | 2    |
| 4       | 3-61-00193 | Wire 16 AWG Red        | 10'  |
| 5       | 2-00-04626 | Terminal-Female Bullet | 2    |
| 6       | 3-61-00189 | Wire 16 AWG Black      | 10'  |
| 7       | 8-82-00058 | Switch                 | 1    |
| 8       | 2-00-04742 | Terminal #6SS          | 1    |
| 9       | 2-00-04345 | Tye-Raps               | 10   |

### HARDWARE USED:

|      |            |                                 |   |
|------|------------|---------------------------------|---|
| H9   | 2-00-00426 | Flat Washer, .500 x .219 x .063 | 2 |
| H27  | 2-00-03702 | Washer, .625 x .281 x .063      | 1 |
| H89  | 2-00-01372 | Nut, Fiber Insert 38-32 Steel   | 2 |
| H121 | 2-00-00090 | Screw, #8-32 x 1.500 RHM        | 2 |
| H165 | 2-00-00589 | Nut, Hex Jam, .25-20            | 2 |

C1823/9905



## OPTION 0780-428

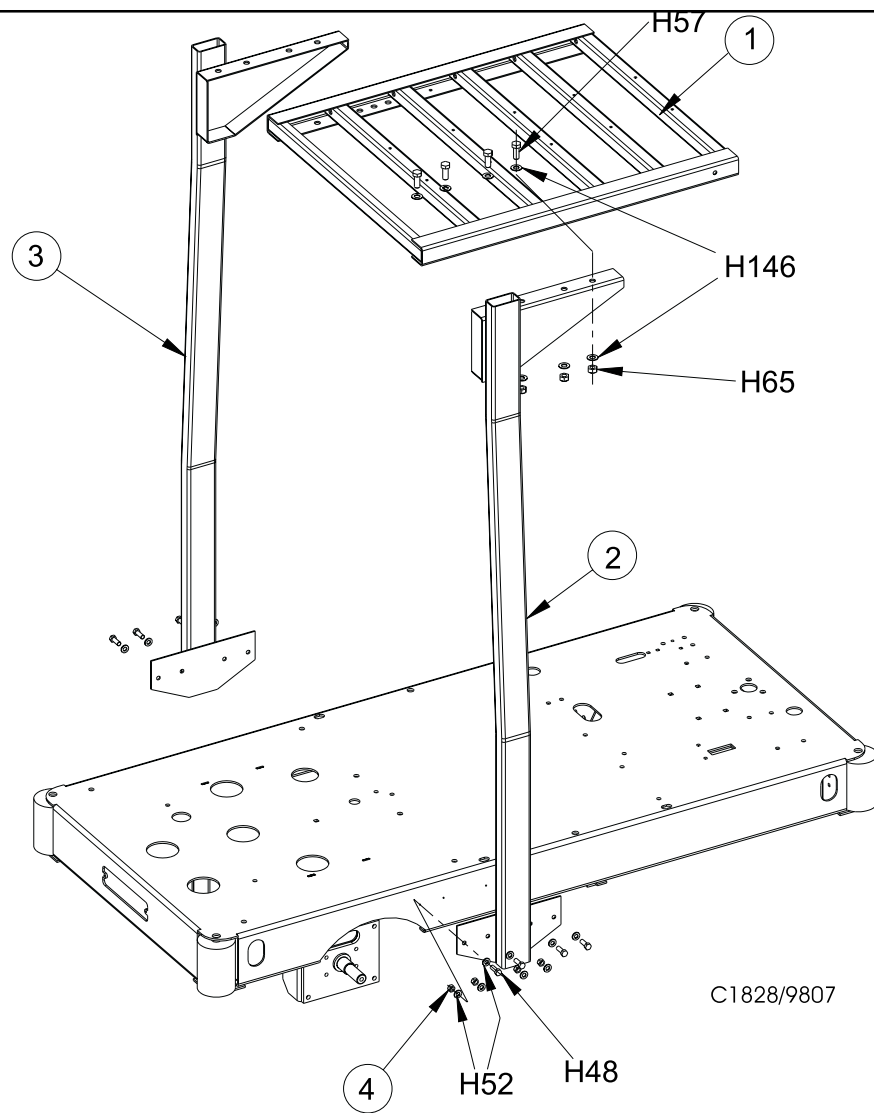
| KEY NO. | PART NO.   | DESCRIPTION              | QTY. |
|---------|------------|--------------------------|------|
| 1       | 8-40-05052 | Head Light               | 1    |
| 2       | 8-40-05053 | Tail Light               | 1    |
| 3       | 2-00-04210 | Clamp                    | 1    |
| 4       | 8-75-01207 | Spacer-Tail Light MTG    | 2    |
| 5       | 8-82-00027 | Light Switch             | 1    |
| 6       | 2-00-03418 | Term- .25 FISO           | 3    |
| 7       | 2-00-04479 | Term- 3 Way              | 1    |
| 8       | 2-00-04578 | Term- .156 Male Bullet   | 2    |
| 9       | 2-00-04626 | Term- .156 Female Bullet | 2    |
| 10      | 2-00-01862 | Term- #10 Ring           | 1    |
| 11      | 2-00-04282 | Term- Ring               | 1    |
| 12      | 3-61-00189 | Wire- 16 AWG BLACK       | 10'  |
| 13      | 3-61-00193 | Wire - 16 AWG RED        | 12'  |

### HARDWARE USED:

|      |            |                              |   |
|------|------------|------------------------------|---|
| H12  | 2-00-01246 | Nut, Hex Fiber Insert #10-24 | 2 |
| H126 | 2-00-03466 | Screw, #10-16 x .500         | 4 |
| H231 | 2-00-02933 | Screw, Mach 10-24 x 3.50     | 2 |

C1827/9810

## OVERHEAD GUARD



**OPTION  
0780-432**

| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>    | <u>QTY.</u> |
|----------------|-----------------|-----------------------|-------------|
| 1              | 7-30-05086      | Top-Overhead Guard    | 1           |
| 2              | 7-30-05100      | Leg-Overhead Guard RH | 1           |
| 3              | 7-30-05101      | Leg-Overhead Guard LH | 1           |
| 4              | 7-30-04182      | Fibre Nut             | 8           |

### HARDWARE USED:

|      |            |                                  |    |
|------|------------|----------------------------------|----|
| H48  | 2-00-00233 | Screw, 3/8-16 x 1.000 HHC        | 8  |
| H52  | 2-00-00402 | Flat Washer, .750 x .390 x .094  | 16 |
| H57  | 2-00-00240 | Screw, 1/2-13 x 1.250 HHC        | 8  |
| H65  | 2-00-04936 | Nut, 1/2-13 Fibre Lock           | 8  |
| H146 | 2-00-00420 | Flat Washer, 1.000 x .516 x .063 | 16 |

C1828/9712

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## STROBE LIGHT WITH OVERHEAD GUARD - PARTS LIST

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**OPTION**  
**0780-423 or 0780-459**

| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>         | <u>QTY.</u> |
|----------------|-----------------|----------------------------|-------------|
| 1              | 8-58-05228      | Plate-Flasher Mounting     | 1           |
| 2              | 3-61-02014      | Convolute Tube 40"         | -           |
| 3              | 2-00-04345      | Ty-Rap                     | 4           |
| 4              | 3-61-00193      | Wire - 16 GA (RED)         | 10ft.       |
| 5              | 3-61-00189      | Wire - 16 GA (BLACK)       | 10ft.       |
| 6              | 8-40-05020      | Red Strobe Light (12-48)   | 1           |
| 6              | 8-40-05036      | Amber Strobe Light (12-48) | 1           |
| 7              | 2-00-04626      | Terminal                   | 2           |
| 8              | 2-00-04578      | Terminal                   | 2           |
| 9              | 2-00-00828      | Terminal                   | 1           |
| 10             | 2-00-04479      | Terminal                   | 1           |

**HARDWARE USED:**

|      |            |                                  |   |
|------|------------|----------------------------------|---|
| H11  | 2-00-00605 | Nut, Hex MS #10-24 x .375 x .125 | 2 |
| H15  | 2-00-00221 | Screw, 1/4-20 x .750 HHC         | 4 |
| H72  | 2-00-00518 | Lock Washer, Helical Spring      | 4 |
| H115 | 2-00-03063 | Screw, #10-24 x .750 THM         | 2 |
| H159 | 2-00-00512 | Lock Washer                      | 2 |

C1824/9807

This diagram illustrates the assembly of a table, showing the table top, legs, and various hardware components. The components are labeled as follows:

- 1**: Table top
- 2**: Screws for the table top
- 3**: Screws for the table top
- 6**: Hardware component (possibly a bracket or support)
- 8**: Screws for the hardware component
- H11**: Screws for the table top
- H15**: Screws for the table top
- H72**: Screws for the table top
- H115**: Screws for the hardware component
- H159**: Screws for the table top

The diagram shows the table top (1) being assembled onto the legs. The hardware component (6) is shown being attached to the table top. The screws (2, 3, 6, 8, H11, H15, H72, H115, H159) are shown being inserted into the table top and hardware component.

C1824/9807

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**STROBE LIGHT WITHOUT OVERHEAD GUARD - PARTS LIST**

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**OPTION  
0780-424or 0780-460**

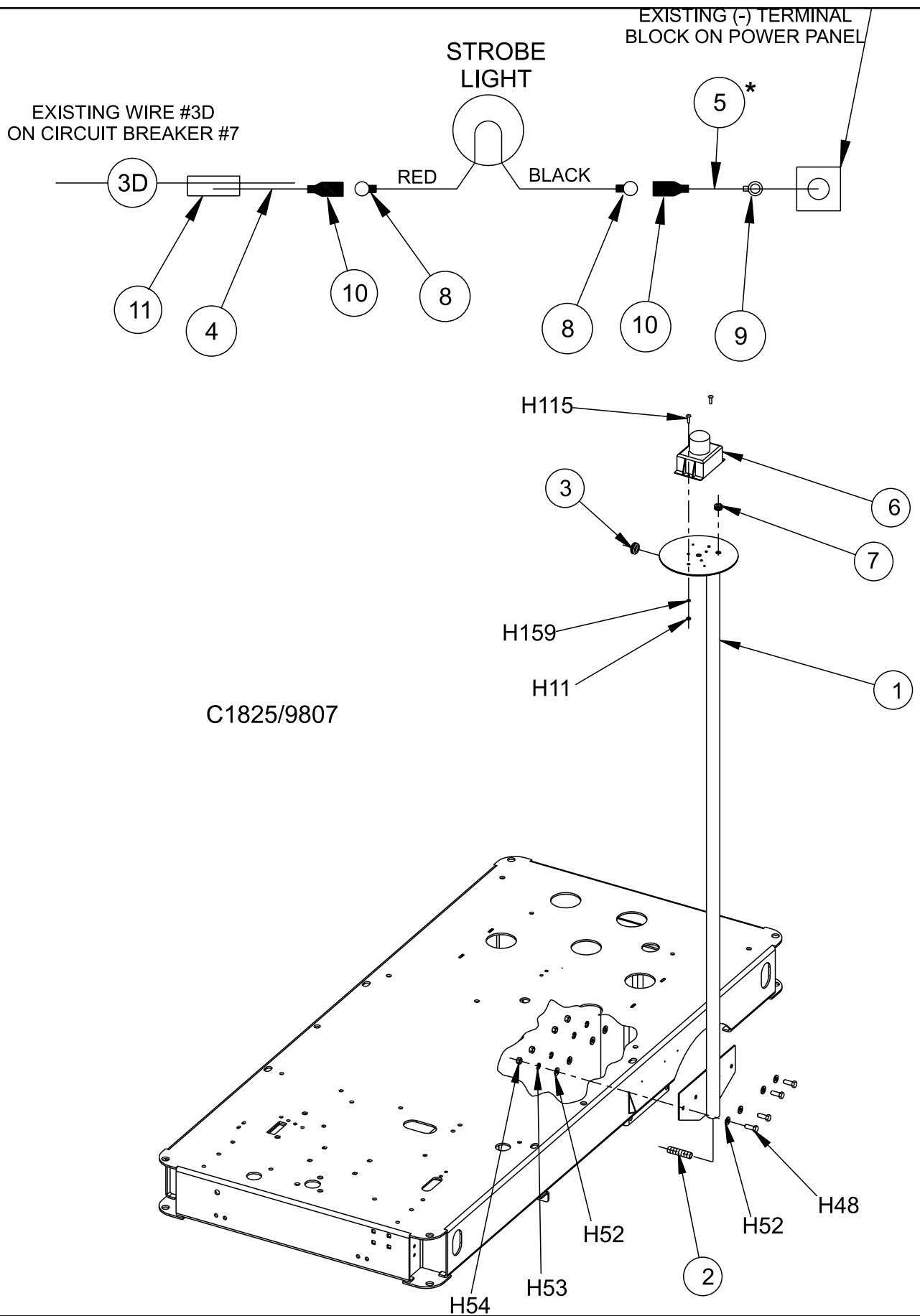
| <b><u>KEY NO.</u></b> | <b><u>PART NO.</u></b> | <b><u>DESCRIPTION</u></b>  | <b><u>QTY.</u></b> |
|-----------------------|------------------------|----------------------------|--------------------|
| 1                     | 7-81-00203             | Support-Warning Light      | 1                  |
| 2                     | 3-61-02014             | Convuluted Tube            |                    |
| 3                     | 2-00-03261             | Grommet                    | 1                  |
| 4                     | 3-61-00193             | Wire - 16 GA (RED)         | 10ft.              |
| 5                     | 3-61-00189             | Wire - 16 GA (BLACK)       | 10ft.              |
| 6                     | 8-40-05020             | Red Strobe Light (12-48)   | 1                  |
| 6                     | 8-40-05036             | Amber Strobe Light (12-48) | 1                  |
| 7                     | 2-00-00491             | Grommet                    | 1                  |
| 8                     | 2-00-04578             | Terminal                   | 2                  |
| 9                     | 2-00-00828             | Terminal                   | 1                  |
| 10                    | 2-00-04626             | Terminal                   | 2                  |
| 11                    | 2-00-04479             | Terminal                   | 1                  |

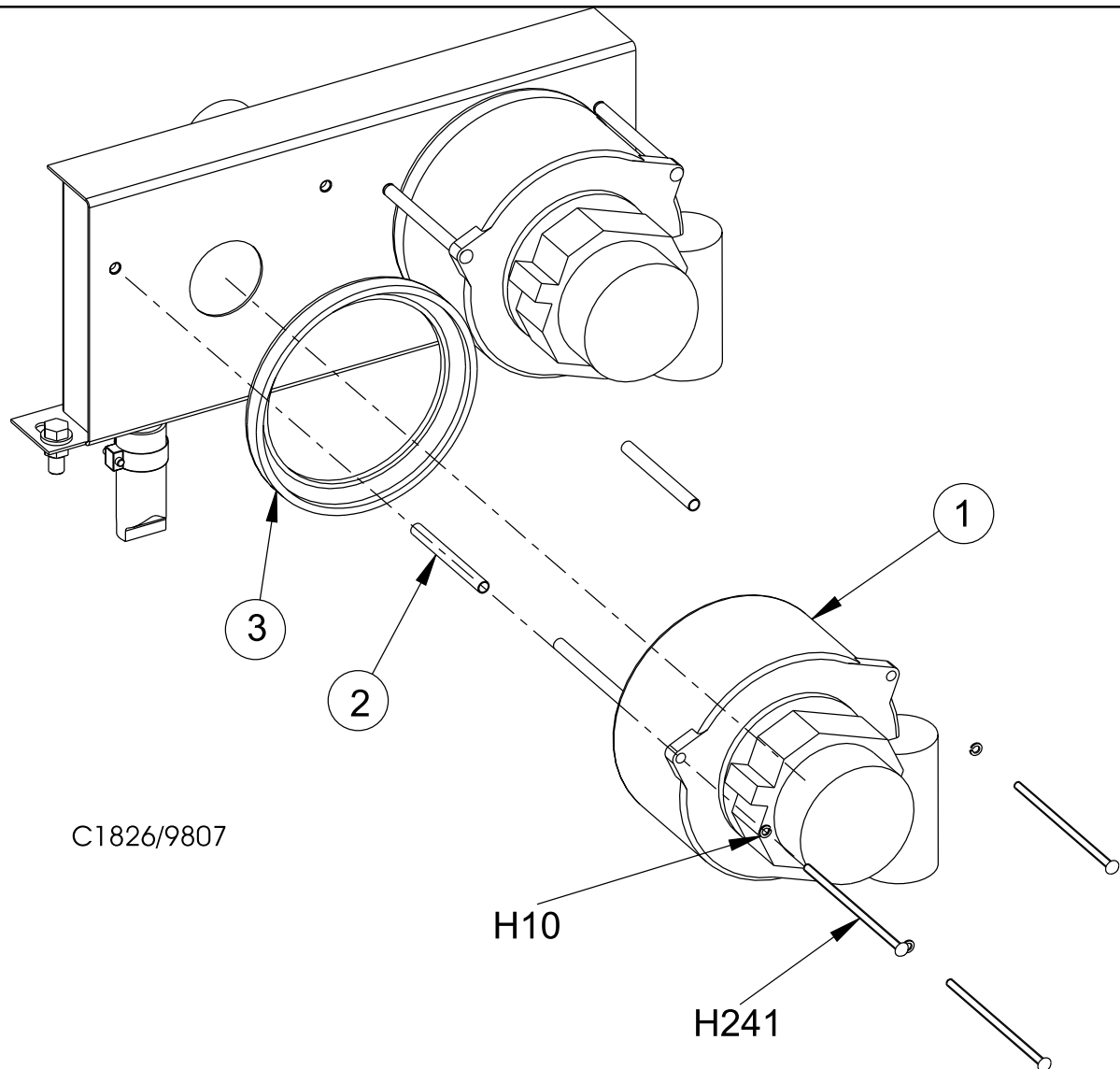
**HARDWARE USED:**

|      |            |                                      |   |
|------|------------|--------------------------------------|---|
| H11  | 2-00-00605 | Nut, Hex MS #10-24 x .375 x .125     | 2 |
| H48  | 2-00-00233 | Screw, 3/8-16 x 1.000 HHC            | 4 |
| H52  | 2-00-00402 | Flat Washer, .750 x .390 x .094      | 8 |
| H53  | 2-00-02310 | Lock Washer, Helical Spring 3/8 Med. | 4 |
| H54  | 2-00-02360 | Nut, 3/8-16 Hex                      | 4 |
| H115 | 2-00-03063 | Screw, #10-24 x .750 THM             | 2 |
| H159 | 2-00-00512 | Lock Washer                          | 2 |

C1825/9807

# STROBE LIGHT WITHOUT OVERHEAD GUARD - EXPLODED VIEW





**OPTION  
0780-427**

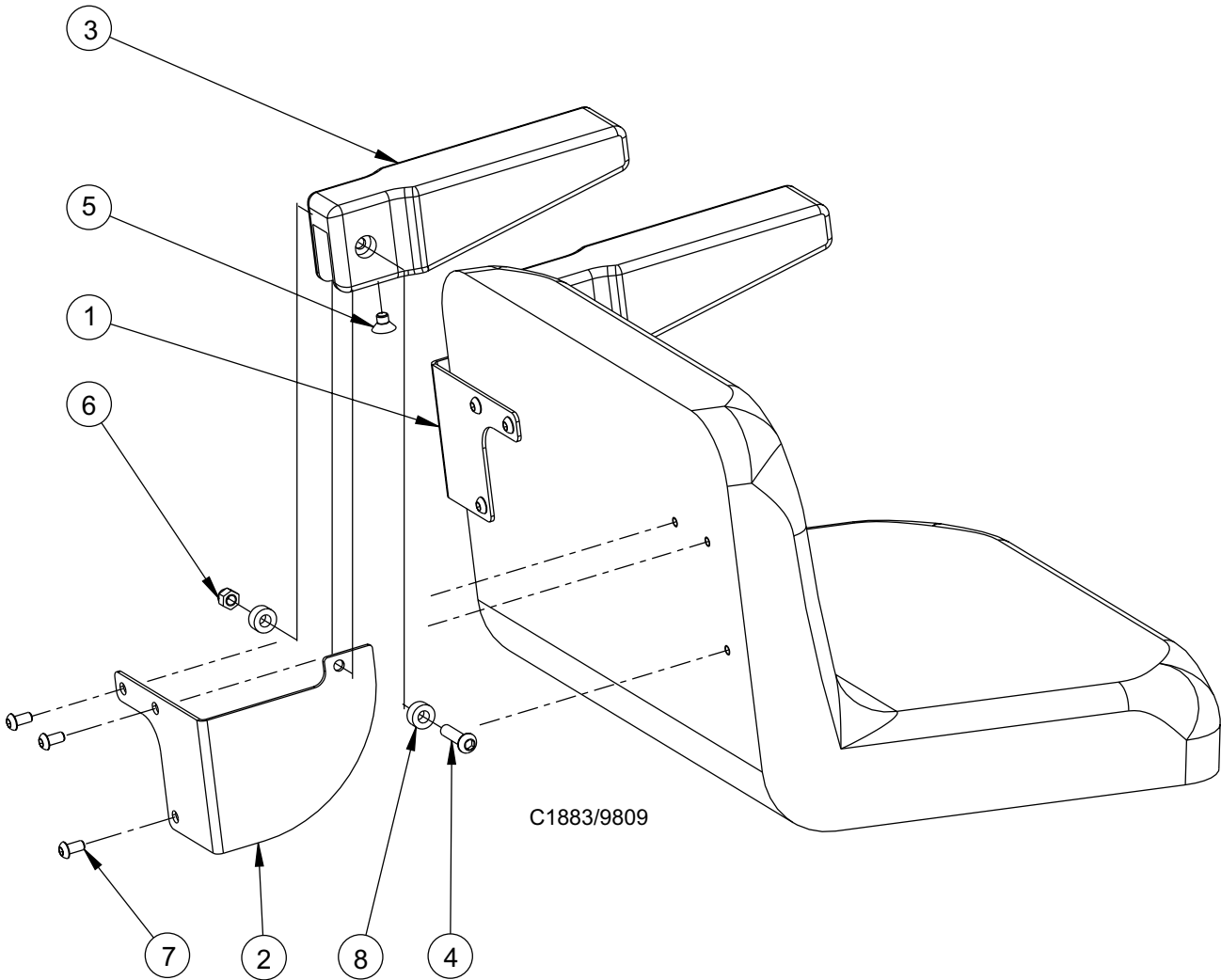
| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>         | <u>QTY.</u> |
|----------------|-----------------|----------------------------|-------------|
| 1              | 0782-124        | Vac Fan                    | 1           |
| 2              | 7-75-01184      | Spacer                     | 3           |
| 3              | 2-22-00003      | Vacuum Fan Gasket          | 1           |
| 4              | 7-64-00032      | Circuit Breaker - 50A      | 1           |
| 5              | 2-00-05065      | Terminal - Wire Nut (Blue) | 2           |
| 6              | 2-00-01862      | Terminal - #10 Ring        | 2           |

**HARDWARE USED:**

|      |            |                              |   |
|------|------------|------------------------------|---|
| H10  | 2-00-00519 | Lock Washer, #10 Med. HS     | 3 |
| H241 | 2-00-05395 | Screw, RHM 25-20 x 4.00 Zinc | 3 |

C1826/9807

# ARM REST OPTION



## OPTION 0780-470

| KEY NO. | PART NO. | DESCRIPTION                    | QTY. |
|---------|----------|--------------------------------|------|
| 1       | *        | Left Arm Bracket               | 1    |
| 2       | *        | Right Arm Bracket              | 1    |
| 3       | *        | Molded Arm Bracket             | 2    |
| 4       | *        | 3/8 - 16 x 1.50 LG BHSCS       | 2    |
| 5       | *        | 3/8 - 16 x .50 LG FHSCS        | 2    |
| 6       | *        | 3/8 - 16 Center Lock Acorn Nut | 2    |
| 7       | *        | 5/16 - 18 x .63 LG BHSCS       | 6    |
| 8       | *        | Nylon Spacer                   | 4    |

\* Items Make Up Arm Rest Kit #7-69-00005

C1883/9809

## MAIN BROOM SWEEPER OPTION - PARTS LIST

### OPTION 0780-468 (3 OF 7 and 7 of 7)

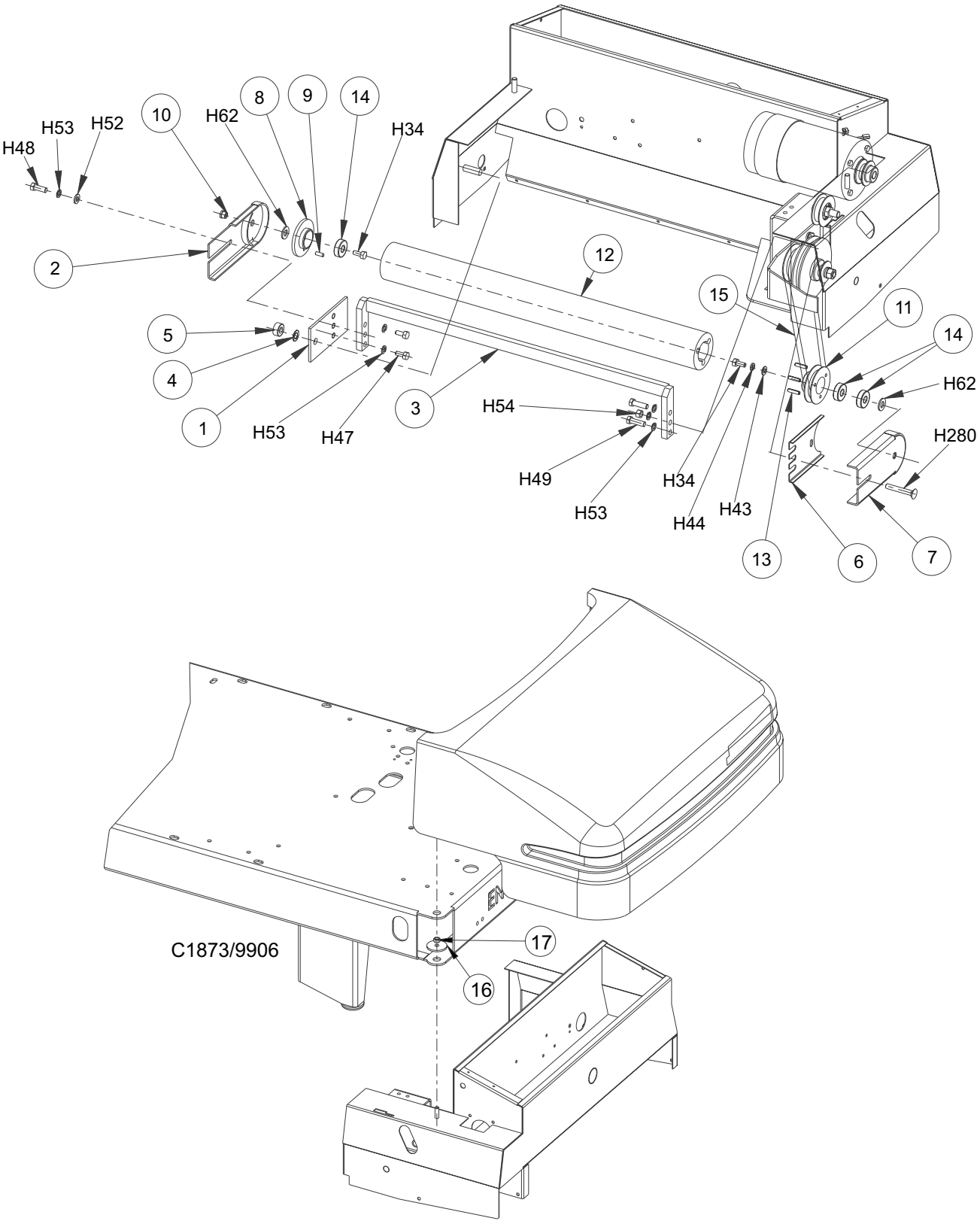
| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>             | <u>QTY.</u> |
|----------------|-----------------|--------------------------------|-------------|
| 1              | 7-81-00166      | Support, Main Broom (LH)       | 1           |
| 2              | 7-03-04185      | Arm, Broom Lift (LH)           | 1           |
| 3              | 7-81-00167      | Yoke, Main Broom               | 1           |
| 4              | 2-00-03382      | Spring Washer                  | 1           |
| 5              | 8-15-01016      | Collar                         | 1           |
| 6              | 7-30-05104      | Guard, Main Broom              | 1           |
| 7              | 7-03-04186      | Arm, Broom Lift (RH)           | 1           |
| 8              | 7-11-04011      | Cap, Broom End                 | 1           |
| 9              | 2-00-00875      | Roll Pin                       | 1           |
| 10             | 7-23-03056      | Nut                            | 1           |
| 11             | 7-60-00156      | Pulley, Main Broom             | 1           |
| 12             | 7-08-03229      | Broom, Main                    | 1           |
| 13             | 2-00-03842      | Pin, Roll ¼ x 1.000            | 3           |
| 14             | 2-00-03306      | Bearing, Ball                  | 3           |
| 15             | 2-00-05365      | V Belt                         | 1           |
| 16             | 2-95-04689      | Washer, Axle                   | 2           |
| 17             | 2-95-04182      | Nut, 3/8 - 16 Elastic Stop Nut | 2           |

#### HARDWARE USED:

|      |            |                                      |   |
|------|------------|--------------------------------------|---|
| H34  | 2-00-00208 | Screw, 5/16-18 x .750 HHC            | 2 |
| H43  | 2-00-00409 | Flat Washer, .687 x .344 x .062      | 1 |
| H44  | 2-00-00530 | Lock Washer, 5/16 HS Med.            | 1 |
| H47  | 2-00-00232 | Screw, 3/8-16 x .750 HHC             | 2 |
| H48  | 2-00-00233 | Screw, 3/8-16 x 1.000 HHC            | 1 |
| H49  | 2-00-00209 | Screw, 3/8-16 x 1.250 HHC            | 2 |
| H52  | 2-00-00402 | Flat Washer, .750 x .390 x .094      | 1 |
| H53  | 2-00-02310 | Lock Washer, Helical Spring 3/8 Med. | 6 |
| H54  | 2-00-02360 | Nut, 3/8-16 Hex.                     | 1 |
| H62  | 2-00-00405 | Flat Washer, 1.063 x .531 x .094     | 2 |
| H280 | 2-00-00187 | Bolt Carriage, .38 - 16 x 2.50       | 1 |

C1873/9906

**MAIN BROOM SWEEPER OPTION - EXPLODED VIEW**



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**BROOM DRIVE SWEEPER OPTION - PARTS LIST**

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**OPTION  
0780-468 2 OF 7**

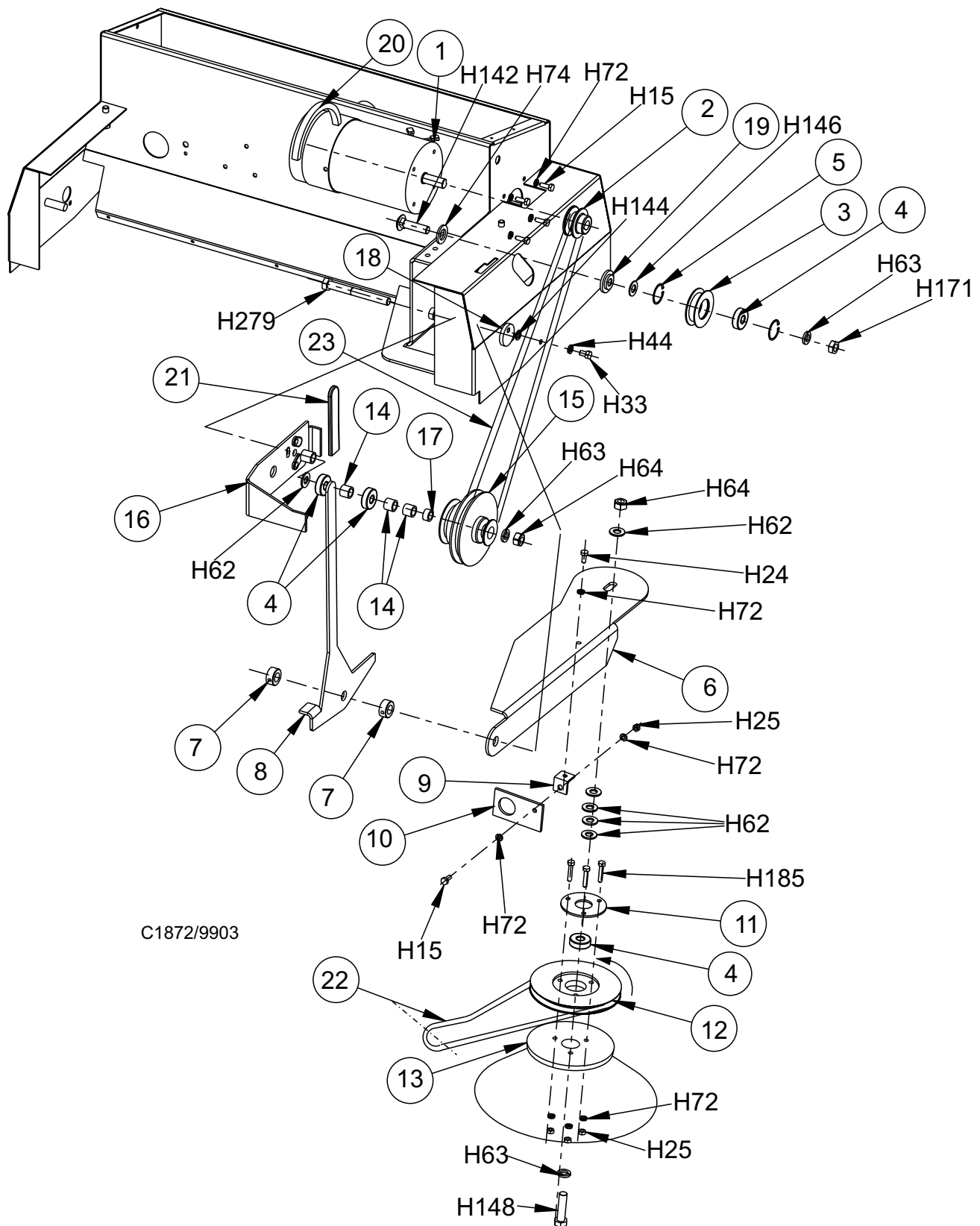
| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>                 | <u>QTY.</u> |
|----------------|-----------------|------------------------------------|-------------|
| 1              | 0782-110        | Motor - 36 VDC ½ HP 1200RPM        | 1           |
| 2              | 7-60-00158      | Pulley, Motor                      | 1           |
| 3              | 8-60-00161      | Idler Pulley, Reverse              | 1           |
| 4              | 2-00-03306      | Bearing, Ball                      | 4           |
| 5              | 2-00-00532      | Ring, Bearing Retainer             | 2           |
| 6              | 7-03-04184      | Arm, Side Broom (Sweeper Option)   | 1           |
| 7              | 8-15-01002      | Collar, Setscrew                   | 2           |
| 8              | 7-41-05111      | Lever, Brush Lift (Sweeper Option) | 1           |
| 9              | 7-08-00223      | Bracket                            | 1           |
| 10             | 8-30-08021      | Plate, Belt Guide                  | 1           |
| 11             | 7-25-06030      | Flange, Side Broom Pulley          | 1           |
| 12             | 7-60-00155      | Pulley, Side Broom                 | 1           |
| 13             | 7-08-03230      | Side Broom                         | 1           |
| 14             | 7-75-01139      | Spacer, Pulley Shaft               | 3           |
| 15             | 7-60-00157-1    | Pulley, Counter Shaft              | 1           |
| 16             | 7-81-00145      | Support, Main Broom (RH)           | 1           |
| 17             | 8-75-01044      | Spacer                             | 1           |
| 18             | 7-78-05027      | Stop, Side Broom                   | 1           |
| 19             | 7-75-01189      | Spacer, Idler                      | 1           |
| 20             | 7-29-00245      | Gasket (6.0")                      | Ref.        |
| 21             | 7-31-06065      | Handel                             | 1           |
| 22             | 2-00-02111      | V Belt (Side Broom)                | 1           |
| 23             | 2-00-05066      | V Belt (Motor)                     | 1           |

**HARDWARE USED:**

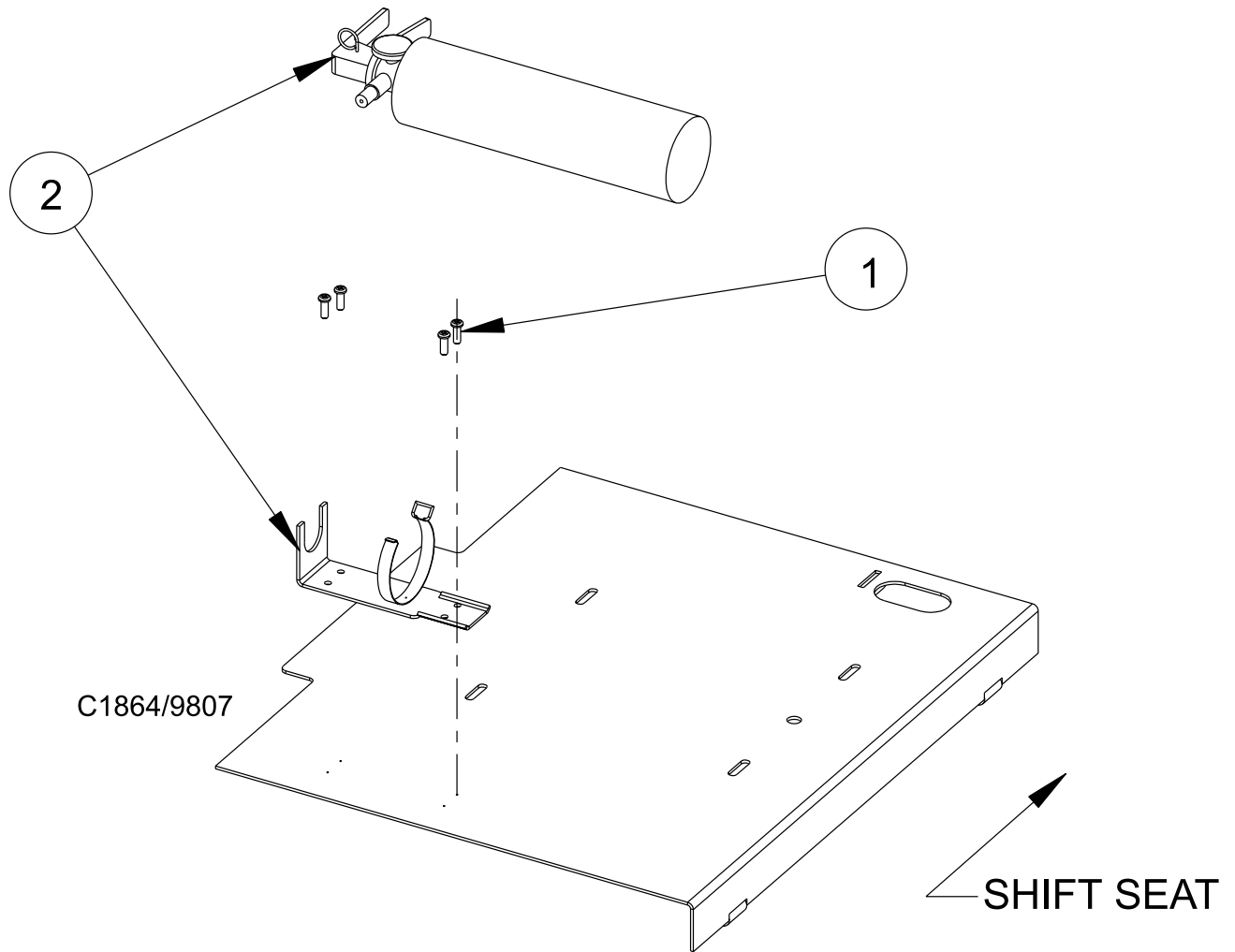
|      |            |                                    |    |
|------|------------|------------------------------------|----|
| H15  | 2-00-00221 | Screw, 1/4-20 x .750 HHC           | 5  |
| H24  | 2-00-00220 | Screw, 1/4-20 x .625 HHC           | 1  |
| H25  | 2-00-00594 | Nut, Hex 1/4-20 x .437 x .218      | 4  |
| H33  | 2-00-00224 | Screw, 5/16-18 x .500 HHC          | 1  |
| H44  | 2-00-00530 | Lock Washer, 5/16 HS Med.          | 1  |
| H62  | 2-00-00405 | Flat Washer, 1.063 x .531 x .094   | 6  |
| H63  | 2-00-02312 | Lock Washer, 1/2 HS Med.           | 3  |
| H64  | 2-00-00596 | Nut, Hex. 1/2-13 x .750 x .437     | 2  |
| H72  | 2-00-00518 | Lock Washer, Helical Spring        | 10 |
| H74  | 2-00-03170 | Flat Washer, 1.500 x .750 x .125   | 1  |
| H142 | 2-00-05244 | Carriage Bolt, 1/2-13 x 2.000      | 1  |
| H144 | 2-00-02303 | Lock Washer Int.                   | 1  |
| H146 | 2-00-00420 | Flat Washer, 1.00 x .516 x .063    | 1  |
| H148 | 2-00-01778 | Screw, 1/2-13 x 2.000 HHC          | 1  |
| H171 | 2-00-02371 | Nut, Hex Jam .50-13 STL.           | 1  |
| H185 | 2-00-02588 | Screw, 1/4-20 x 1.125 HHC Cad. Pl. | 3  |
| H279 | 2-00-04914 | Screw, .50 - 13 x 4.50 HHC         | 1  |

C1872/9906

# BROOM DRIVE SWEEPER OPTION - EXPLODED VIEW



C1872/9903

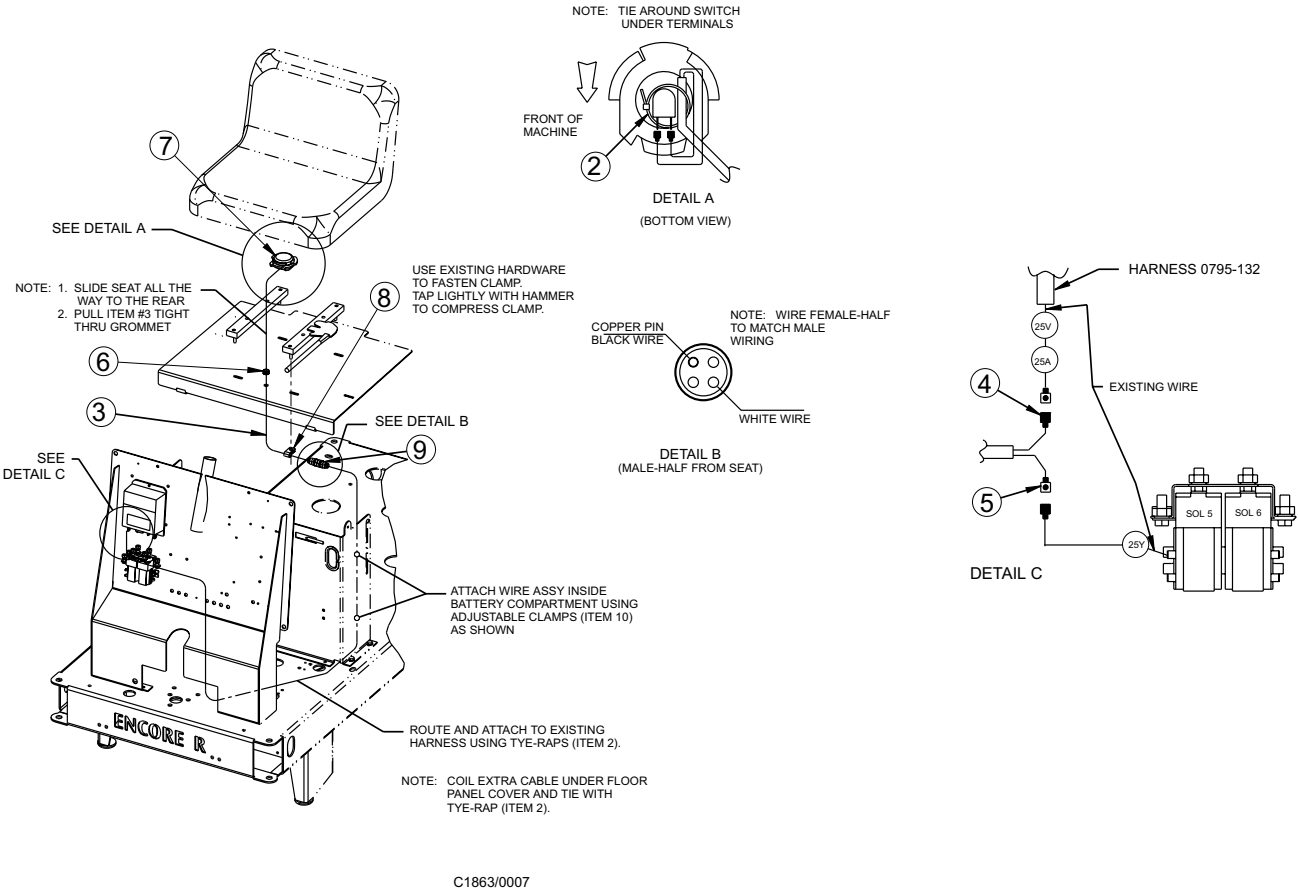


**OPTION  
0780-462**

| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>        | <u>QTY.</u> |
|----------------|-----------------|---------------------------|-------------|
| 1              | 2-95-01998      | Screw #14-10 x .75 T/F RH | 4           |
| 2              | 8-83-04033      | Fire Extinguisher         | 1           |

C1864/9807

SEAT SWITCH KIT



OPTION  
0780-461

| KEY NO. | PART NO.   | DESCRIPTION            | QTY. |
|---------|------------|------------------------|------|
| 1       |            |                        |      |
| 2       | 2-00-04345 | Tye-Raps               | 10   |
| 3       | 0875-126   | Assy-Wire, Seat Switch | 1    |
| 4       | 2-00-04532 | Term- .25 FISO Female  | 1    |
| 5       | 2-00-04531 | Term- .25 FISO Male    | 1    |
| 6       | 2-00-00491 | Grommet                | 1    |
| 7       | 8-82-00064 | Seat Switch            | 1    |
| 8       | 2-00-04873 | Clamp                  | 1    |
| 9       | 2-00-03856 | Plug Assy - Electric   | 2    |
| 10      | 7-13-07096 | Clamp - Adjustable     | 2    |

C1863/0007

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**FRAME AND FLAPS OPTION - PARTS LIST**

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**OPTION  
0780-468 1 OF 6**

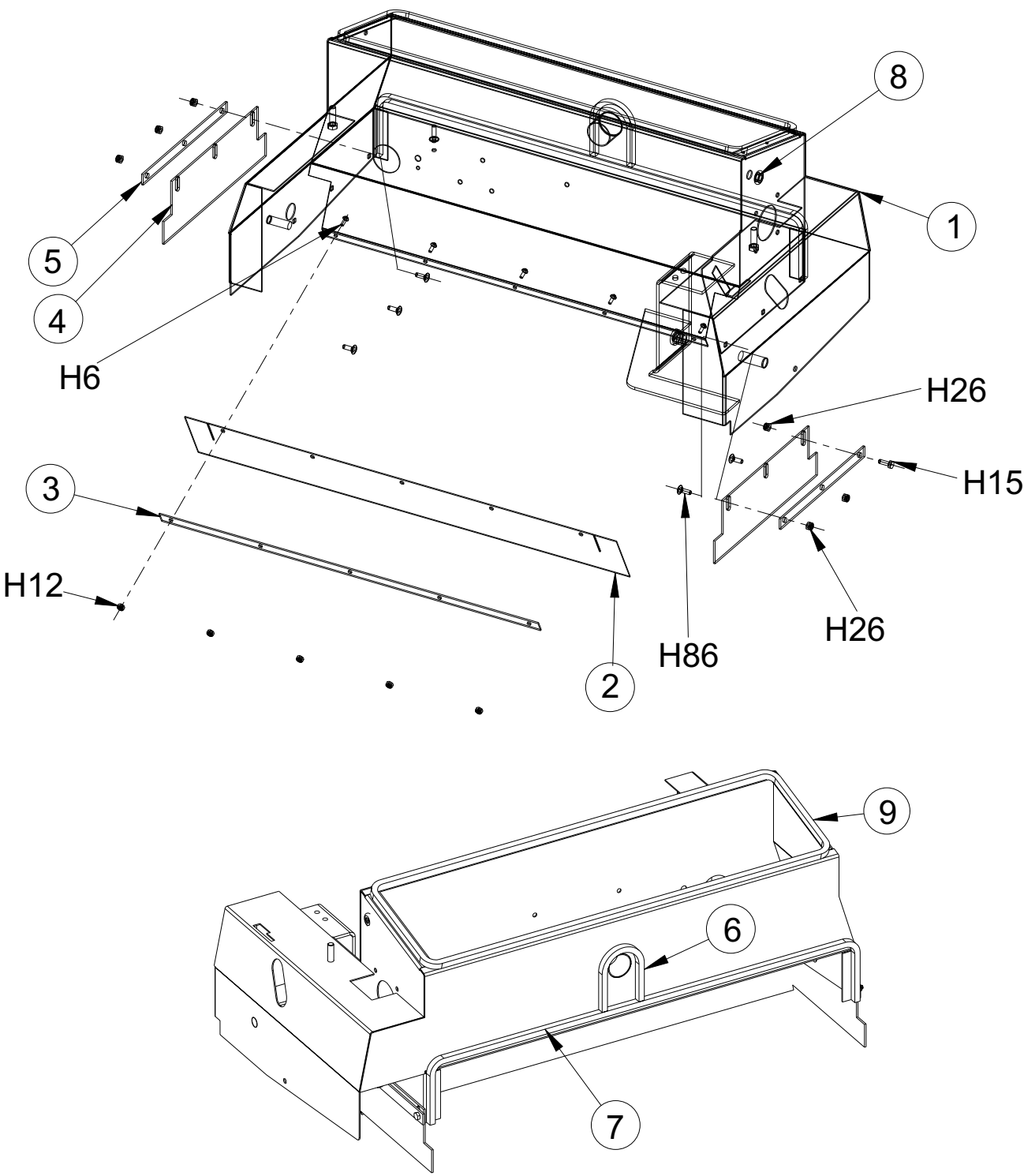
| <b><u>KEY NO.</u></b> | <b><u>PART NO.</u></b> | <b><u>DESCRIPTION</u></b> | <b><u>QTY.</u></b> |
|-----------------------|------------------------|---------------------------|--------------------|
| 1                     | 7-27-07193             | Broom Housing             | 1                  |
| 2                     | 7-25-08080             | Flap, Rear                | 1                  |
| 3                     | 7-13-07126             | Clamp, Flap (Rear)        | 1                  |
| 4                     | 7-25-08081             | Flap, Side                | 2                  |
| 5                     | 7-13-07194             | Clamp, Side Sq.           | 2                  |
| 6                     | 7-29-00253             | Gasket, Hopper            | 1                  |
| 7                     | 7-29-00252             | Gasket, Hopper            | 1                  |
| 8                     | 2-00-04341             | Grommet                   | 1                  |
| 9                     | 7-29-00251             | Gasket, Plastic Hopper    | 1                  |
| 9                     | 7-29-00254             | Gasket, Steel Hopper      | 1                  |

**HARDWARE USED:**

|     |            |                              |   |
|-----|------------|------------------------------|---|
| H6  | 2-00-00049 | Screw, #10-24 x .500 RHM     | 5 |
| H12 | 2-00-01246 | Nut, Hex #10-24 Fiber Insert | 5 |
| H15 | 2-00-00221 | Screw, ¼ - 20 x .750 HHC     | 1 |
| H26 | 2-00-00641 | Nut, ¼ - 20 Fiber Insert     | 6 |
| H86 | 2-00-03575 | Carriage Bolt, ¼ - 20 x .750 | 5 |

C1871/9906

FRAME AND FLAPS OPTION - EXPLODED VIEW



C1871/0004

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**ESP RECOVERY OPTION - PARTS LIST**

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**OPTION  
0780-426**

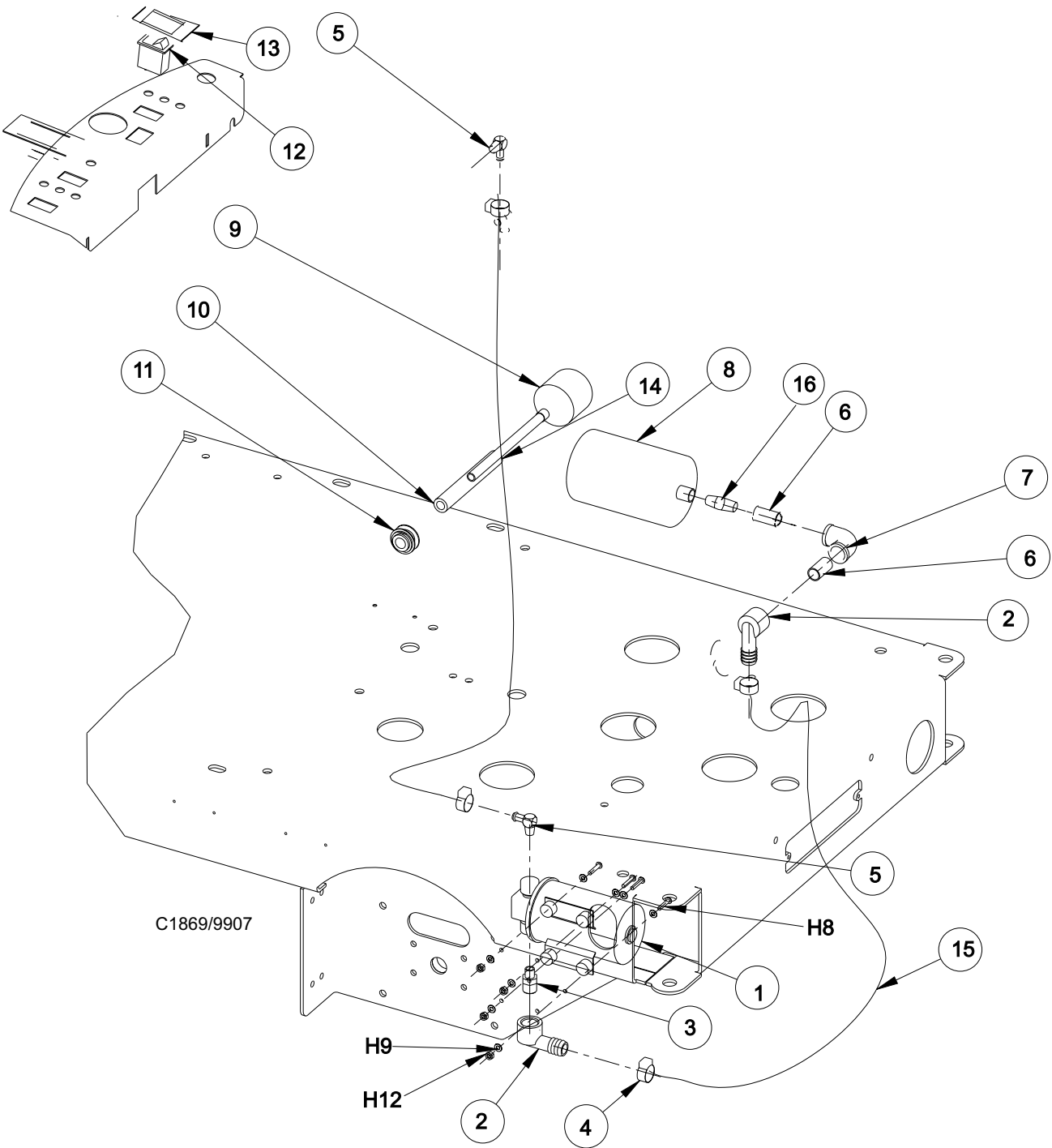
| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>           | <u>QTY.</u> |
|----------------|-----------------|------------------------------|-------------|
| 1              | 7-60-05013      | Pump - Recycling (36 VDC)    | 1           |
| 2              | 2-00-05132      | Fitting - Elbow              | 2           |
| 3              | 7-25-02062      | Fitting - Reducer Nipple     | 1           |
| 4              | 2-00-03407      | Hose Clamp, Witteck #10P     | 4           |
| 5              | 7-25-02061      | Fitting                      | 2           |
| 6              | 2-00-05131      | Fitting, Nipple              | 2           |
| 7              | 2-00-05083      | Fitting, 90° ¾ NPT Elbow     | 1           |
| 8              | 7-24-04038      | Filter, Pump Inlet           | 1           |
| 9              | 0775-164        | Float Switch                 | 1           |
| 10             | 7-89-02191      | Tube, Float Switch           | 1           |
| 11             | 7-09-01124      | Bulkhead Fitting             | 1           |
| 12             | 8-82-00059      | Switch, Rocker (SPST)        | 1           |
| 13             | 7-18-00263      | Decal                        | 1           |
| 14             | 7-33-02384      | Hose, ½ ID                   | 1           |
| 15             | 7-87-02159      | Hose, ¾ ID                   | 1           |
| 16             | 2-00-04479      | Terminal, 3 Way              | 1           |
| 17             | 2-00-04626      | Terminal, .156 Female Bullet | 4           |
| 18             | 2-00-04578      | Terminal, .156 Male Bullet   | 4           |
| 19             | 2-00-03418      | Terminal, .25 FISO Female    | 2           |
| 20             | 2-00-04284      | Terminal, Ring               | 1           |
| 21             | 3-61-00189      | Wore. 16 AWG Black           | 15'         |

**HARDWARE USED:**

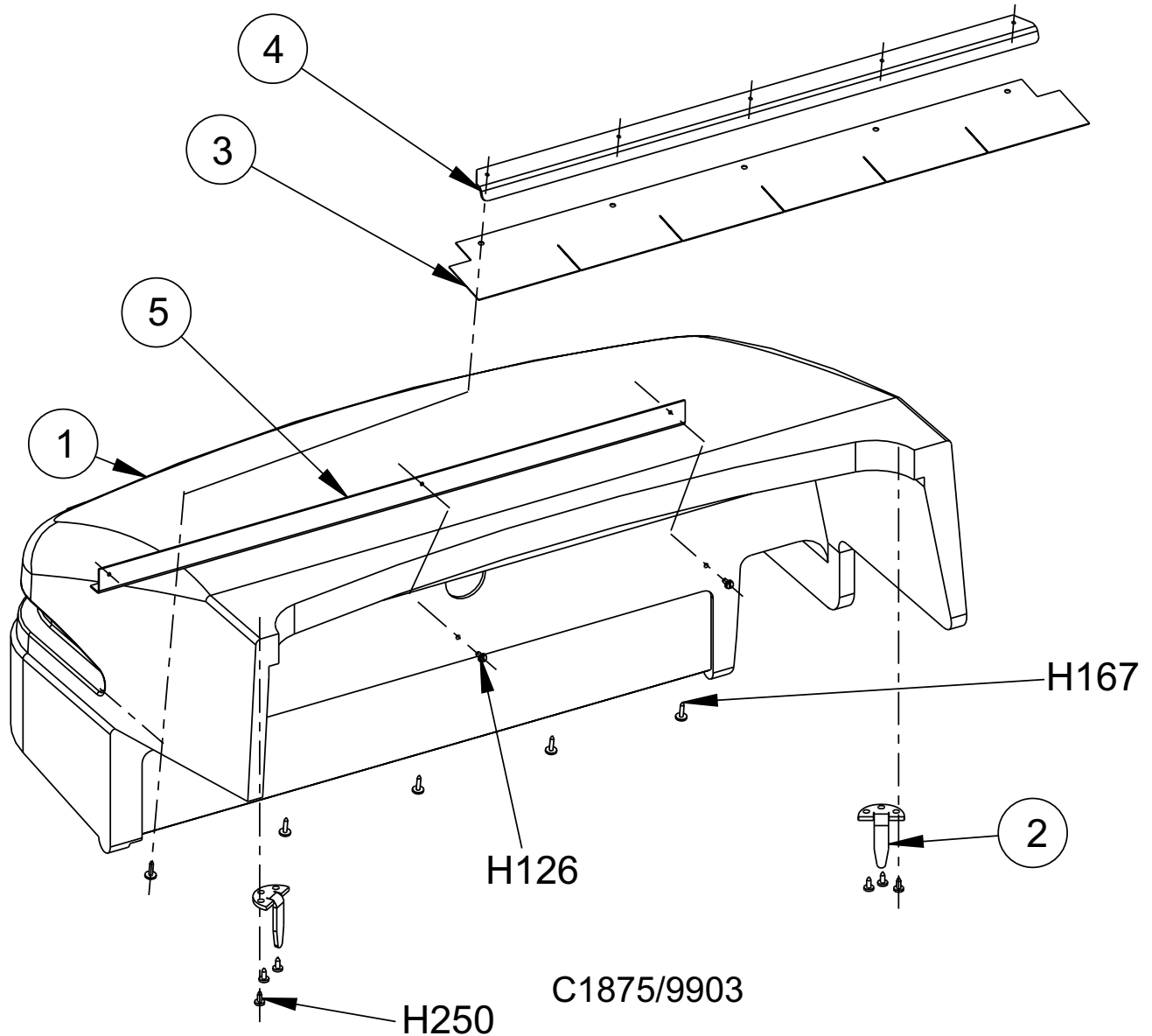
|     |            |                                 |   |
|-----|------------|---------------------------------|---|
| H8  | 2-00-00039 | Screw, #10-24 x 1.000 RHM       | 4 |
| H9  | 2-00-00426 | Flat Washer, .500 x .219 x .063 | 8 |
| H12 | 2-00-01246 | Nut, Hex #10-24 Fiber Insert    | 4 |

C1869/9907

**ESP RECOVERY OPTION - EXPLODED VIEW**



## HOPPER SWEEPER OPTION (PLASTIC)



OPTION  
0780-468 5 OF 7

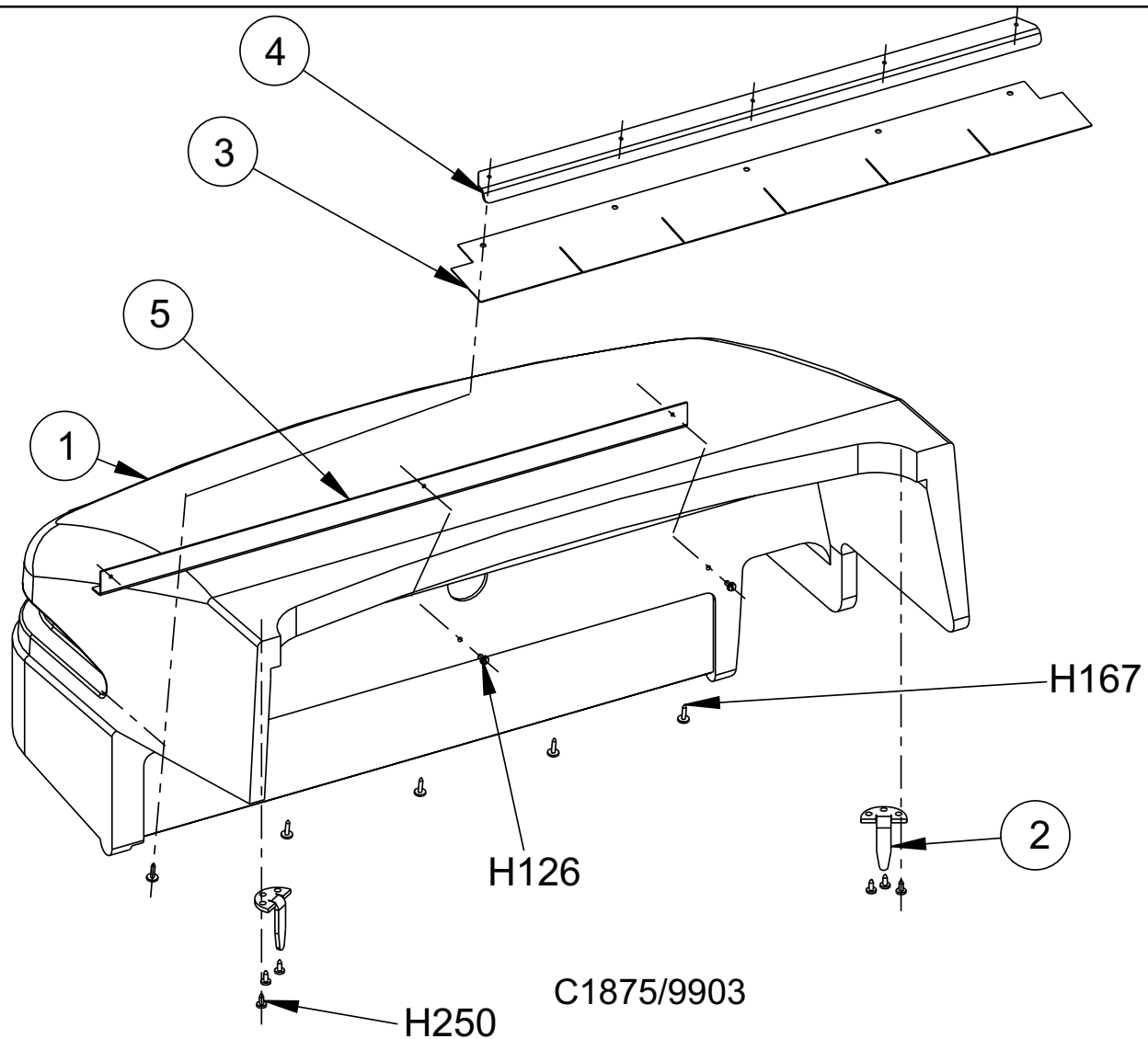
| KEY NO. | PART NO.   | DESCRIPTION        | QTY. |
|---------|------------|--------------------|------|
| 1       | 7-32-06022 | Hopper (Plastic)   | 1    |
| 2       | 7-55-08160 | Pin, Hopper Guide  | 2    |
| 3       | 7-25-08079 | Flap, Hopper       | 1    |
| 4       | 7-13-07193 | Clamp, Hopper Flap | 1    |
| 5       | 7-08-00950 | Bracket, Stiffner  | 1    |

### HARDWARE USED:

|      |            |                                      |   |
|------|------------|--------------------------------------|---|
| H126 | 2-00-03466 | Screw, #10 - 24 x .500               | 3 |
| H167 | 2-00-04312 | Screw, #10 - 24 x .625 T/C Hex HD.   | 5 |
| H250 | 2-00-04968 | Screw, T/FRH #14 - 10 x 1.000 Type A | 6 |

C1875/9903

## HOPPER SWEEPER OPTION (STEEL)



OPTION  
0780-468 5A OF 7

| KEY NO. | PART NO.   | DESCRIPTION        | QTY. |
|---------|------------|--------------------|------|
| 1       | 7-32-06023 | Hopper (Steel)     | 1    |
| 2       | 7-25-08079 | Flap, Hopper       | 1    |
| 3       | 7-13-07193 | Clamp, Hopper Flap | 1    |
| 4       | 7-30-08020 | Guide, Hopper      | 2    |
| 5       | 8-31-06078 | Handle             | 2    |
| 6       | 8-79-00098 | Bracket            | 2    |

**HARDWARE USED:**

|      |            |                               |   |
|------|------------|-------------------------------|---|
| H26  | 2-00-00641 | Nut, ¼ - 20 Insert Fiber      | 2 |
| H126 | 2-00-03466 | Screw, #10 - 24 x .500        | 4 |
| H136 | 2-00-03940 | Screw, #10 - 24 x .500 T/C HH | 5 |
| H304 | 2-00-00246 | Screw, .25 - 20 x 2.25HHC     | 2 |

C1875/9903

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**DUST CONTROL SWEEPER OPTION - PARTS LIST**

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**OPTION  
0780-468 4OF 7**

| <b><u>KEY NO.</u></b> | <b><u>PART NO.</u></b> | <b><u>DESCRIPTION</u></b> | <b><u>QTY.</u></b> |
|-----------------------|------------------------|---------------------------|--------------------|
| 1                     | 7-08-00924             | Bracket, Vac Mounting     | 1                  |
| 2                     | 0782-124               | Vac Fan                   | 1                  |
| 3                     | 7-75-01128             | Spacer                    | 1                  |
| 4                     | 7-16-07408             | Cover, C.B. Mounting      | 1                  |
| 5                     | 7-64-00025             | Circuit Breaker, 25 Amp   | 2                  |
| 6                     | 8-06-05004             | Terminal Block            | 1                  |
| 7                     | 7-24-04052             | Filter Bag                | 1                  |
| 8                     | 8-11-00051             | Cap, Clear Boot           | 2                  |
| 9                     | 2-00-04825             | Solenoid                  | 1                  |
| 10                    | 0795-159               | Diode                     | 1                  |
| 11                    | 8-82-00058             | Switch                    | 1                  |

**HARDWARE USED:**

|      |            |                                 |   |
|------|------------|---------------------------------|---|
| H7   | 2-00-00056 | Screw, # 10-24 x .750 RHM       | 1 |
| H12  | 2-00-01246 | Nut, Hex Fiber Insert #10-24    | 1 |
| H13  | 2-00-00054 | Screw, 1/4-20 x .500 RHM        | 2 |
| H14  | 2-00-00219 | Screw, 1/4-20 x .500 HHC        | 2 |
| H25  | 2-00-00594 | Nut, Hex 1/4-20 x .437 x .218   | 1 |
| H26  | 2-00-00641 | Nut, 1/4-20 Insert Fiber        | 6 |
| H27  | 2-00-03702 | Washer, .625 x .281 x .063      | 4 |
| H89  | 2-00-01372 | Nut, Fiber Insert #8-32 Steel   | 2 |
| H121 | 2-00-00090 | Screw, #8 - 32 x 1.500 RHM      | 2 |
| H172 | 2-00-04986 | Screw, 1/4 - 20 x 4.500         | 1 |
| H229 | 2-00-01490 | Screw, 1/4 - 20 x .875 HHC STL  | 1 |
| H230 | 2-00-00466 | Flat Washer, .625 x .203 x .031 | 4 |

C1874/9903



## SPRAY WAND OPTION - PARTS LIST

### OPTION 0780-466

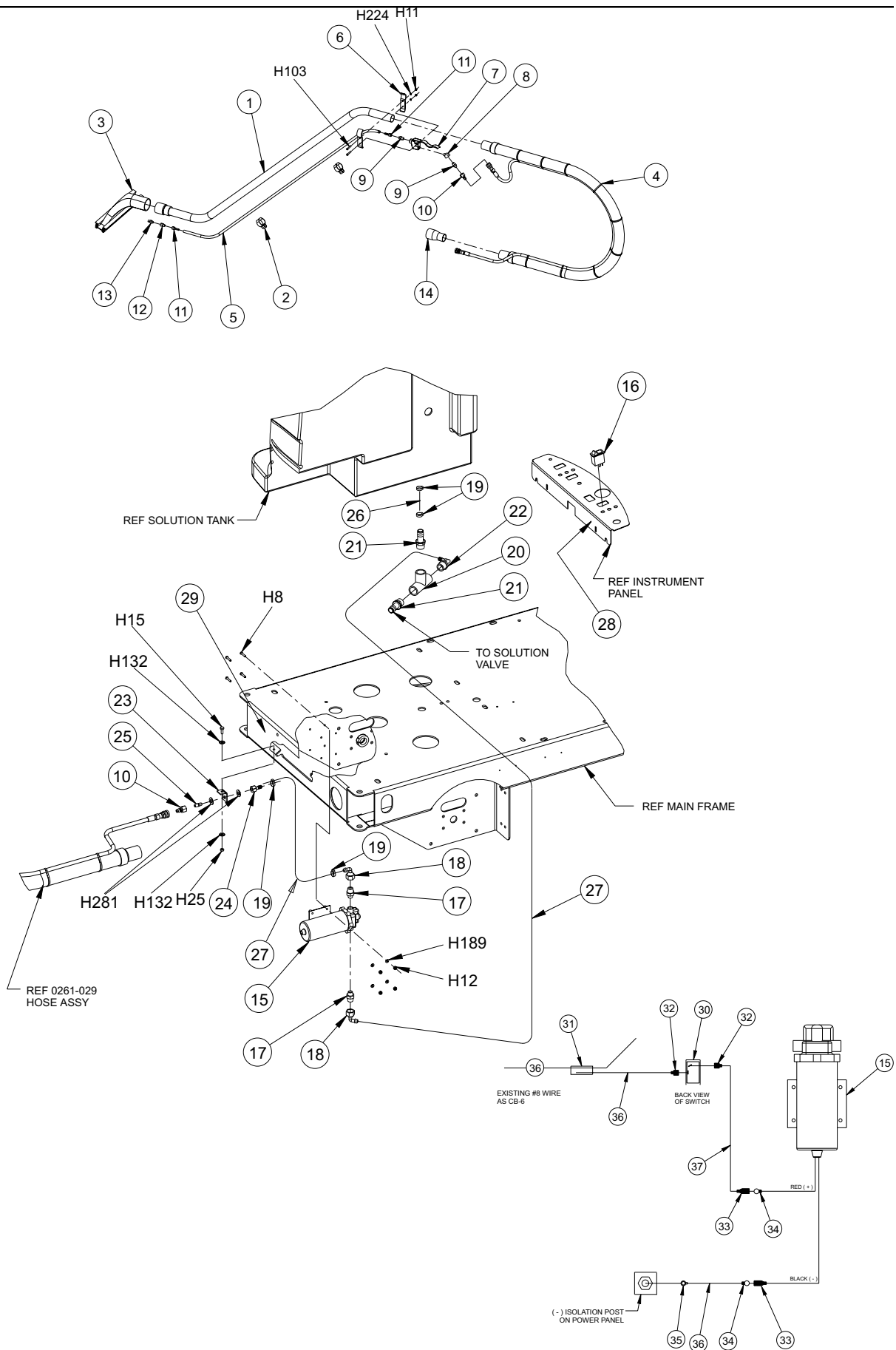
| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>                    | <u>QTY.</u>   |
|----------------|-----------------|---------------------------------------|---------------|
| 1              | 0261-025        | Wand Assembly                         | 1             |
| 2              | 7-13-07140      | Clamp, Hose                           | 5             |
| 3              | 0261-024        | Tool Assembly                         | 1             |
| 4              | 0261-029        | Hose Assembly                         | 1             |
| 5              | 7-33-02306      | Hose, Solution Feed                   | 1             |
| 6              | 7-13-07139      | Clamp, Valve                          | 2             |
| 7              | 7-88-00058      | Valve, Solution 1/4 NPT               | 1             |
| 8              | 8-56-05026      | 45° Street Elbow                      | 1             |
| 9              | 2-00-05206      | Reducer, Male Pipe 1/4x1/8            | 2             |
| 10             | 7-16-05028      | Coupling, Quick Disconnect            | 1             |
| 11             | 2-00-05207      | Adapter, 1/4 Hose x 1/8 NPT           | 2             |
| 12             | 2-00-05208      | Adapter, 1/8 Pipe, Brass              | 1             |
| 13             | 7-50-01002      | Spray Nozzle                          | 1             |
| 14             | 7-03-00044      | Adapter, Transition                   | 1             |
| 15             | 7-60-05017      | Pump, Water 36 VDC                    | 1             |
| 16             | 8-82-00059      | Switch, Rocker (SPST)                 | 1             |
| 17             | 7-03-00047      | Adapter, Plastic 3/8 - 1/2NPT         | 2             |
| 18             | 7-25-02073      | Fitting, 90° Elbow 1/2 NPT x 3/8 BARB | 2             |
| 19             | 2-95-04388      | Hose Clamp                            | 4             |
| 20             | 7-25-02037      | Fitting, Plastic (tee)                | 1             |
| 21             | 7-25-02012      | Fitting, 3/4 I.D. Hose STR BARB       | 2             |
| 22             | 2-00-04655      | Fitting, 90° Elbow (Nylon)            | 1             |
| 23             | 7-08-00769      | Bracket, Hose Connection              | 1             |
| 24             | 2-00-05211      | Adapter, 3/8 Hose BARB x 1/8 NPT (F)  | 1             |
| 25             | 2-00-03875      | Close Nipple, (BRASS)                 | 1             |
| 26             | 3-71-03025      | Hose                                  | 4ft.          |
| 27             | 3-71-00081      | Hose                                  | 1 ft.         |
| 28             | 7-18-00217      | Spray Wand Decal                      | 1             |
| 29             | 7-18-00121      | Warning Decal                         | 1             |
| 30             | 8-82-00059      | Switch, Rocker (SPST)                 | Ref.          |
| 31             | 2-00-04479      | Terminal, 3-Way                       | 1             |
| 32             | 2-00-03418      | Terminal, .25 FISO Female             | 2             |
| 33             | 2-00-04626      | Terminal, .156 Female Bullet          | 2             |
| 34             | 2-00-04578      | Terminal, .156 Male Bullet            | 2             |
| 34             | 2-00-00828      | Terminal, .25 Ring                    | 1             |
| 36             | 3-61-00189      | Wire, 16 AWG                          | ** Cut To Fit |
| 37             | 3-61-00193      | Wire - 16 AWG RED                     | **Cut To Fit  |

### HARDWARE USED:

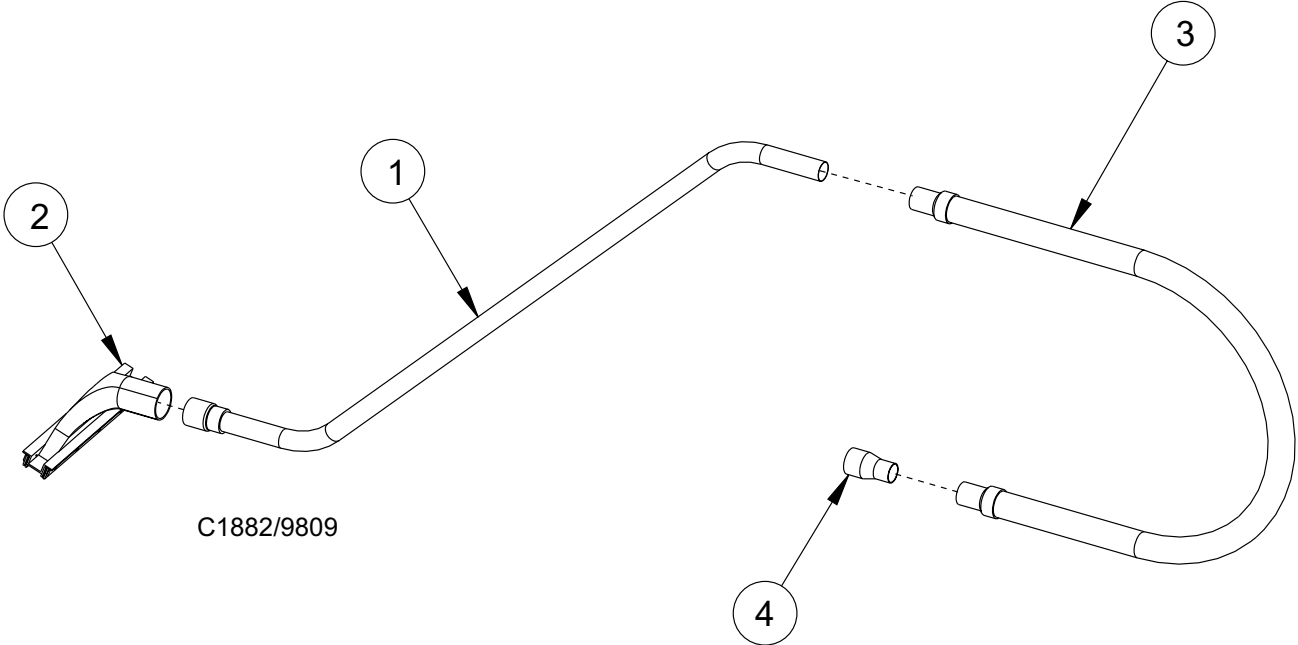
|      |            |                                       |   |
|------|------------|---------------------------------------|---|
| H8   | 2-00-00039 | Screw #10 -24 x 1.000 RHM             | 4 |
| H11  | 2-00-00605 | Nut, Hex #10-24 x .375 x .125         | 2 |
| H12  | 2-00-01246 | Nut, Hex #10-24 Fiber Insert          | 4 |
| H15  | 2-00-00221 | Screw, 1/4-20 x .750 HHC              | 1 |
| H25  | 2-00-00594 | Nut, Hex 1/4-20 x .437 x .218         | 1 |
| H103 | 2-00-00089 | Screw, #10-24 x 1.5000 RHM            | 2 |
| H132 | 2-00-00503 | Lock Washer, 1/4 Ext.                 | 2 |
| H189 | 2-00-00460 | Flat Washer, .437 x .192 x .031       | 4 |
| H224 | 2-00-04686 | Lock Washer, Helical #10 Scr Med. SST | 2 |
| H281 | 2-00-00415 | Flat Washer, STL                      | 2 |

C1870/0004

## SPRAY WAND OPTION - EXPLODED VIEW



C1870/0004

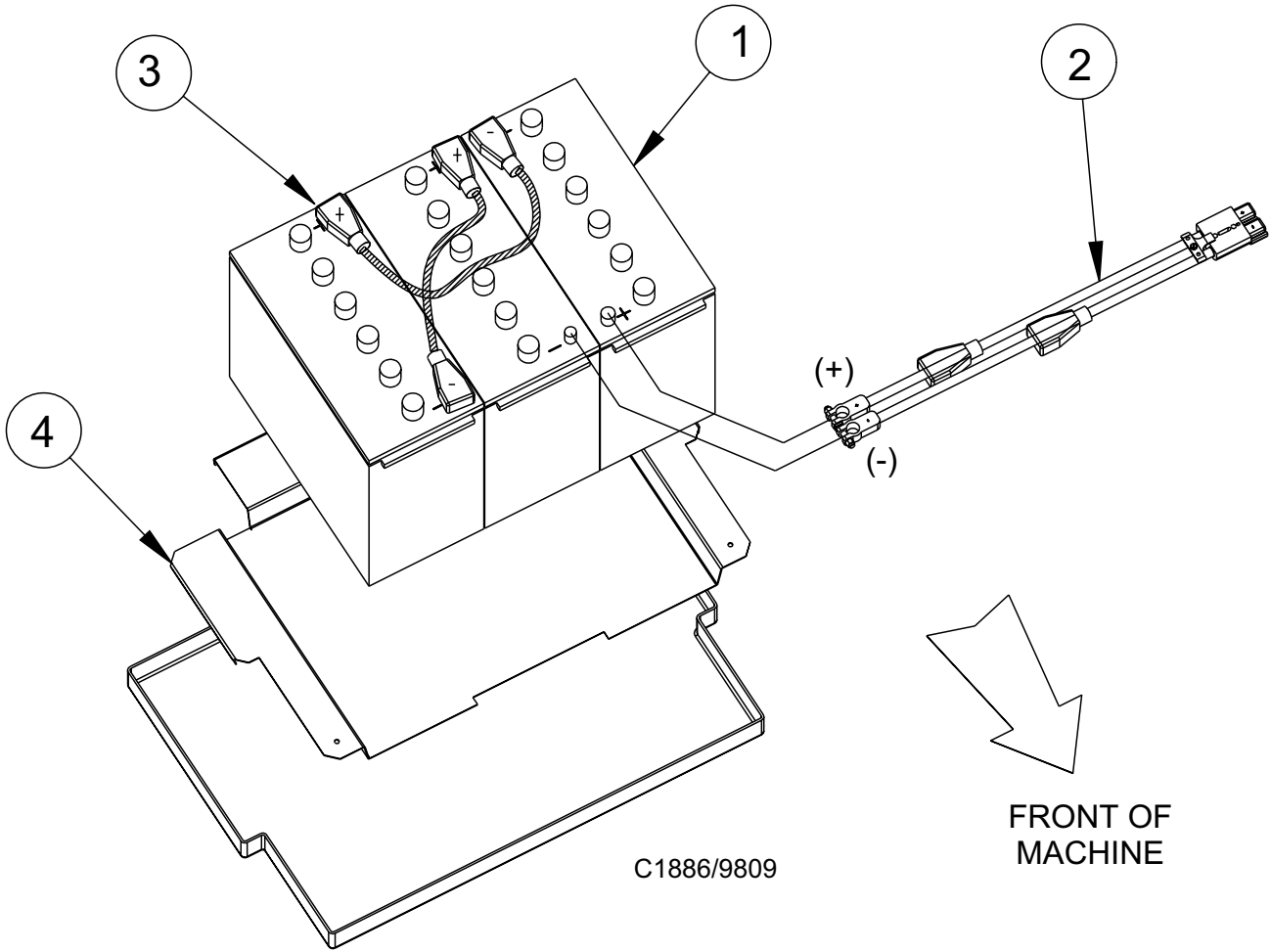


| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>   | <u>QTY.</u> |
|----------------|-----------------|----------------------|-------------|
| 1              | 0261-025        | Wand Assembly        | 1           |
| 2              | 0261-024        | Tool Assembly        | 1           |
| 3              | 7-33-02213      | Hose - Vac           | 1           |
| 4              | 7-03-00044      | Adapter - Transition | 1           |

C1882/9809

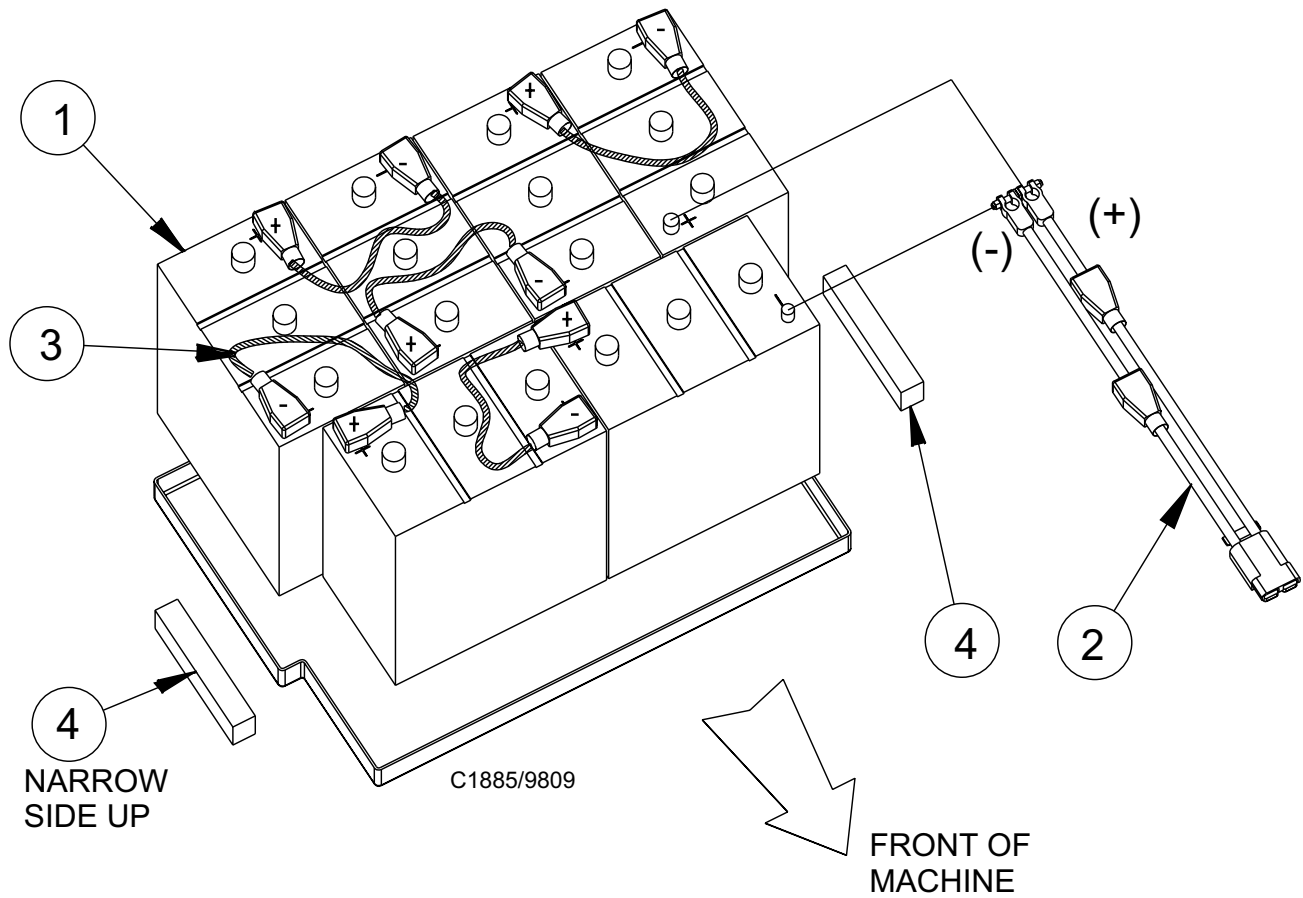
**BATTERY OPTION 228 A. H.**

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| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>                   | <u>QTY.</u> |
|----------------|-----------------|--------------------------------------|-------------|
| 1              | 0875-105        | Battery 6v Lead Acid (Wet)(0780-207) | 6           |
| 1              | 0875-106        | Battery 6v Lead Acid (Wet)(0780-208) | 6           |
| 2              | 0875-102        | Connector Assembly (To Battery)      | 1           |
| 3              | 7-90-07286      | Battery Connector Wire               | 5           |
| 4              | 8-75-01206      | Spacer - Battery Pan (6) Volt        | 2           |

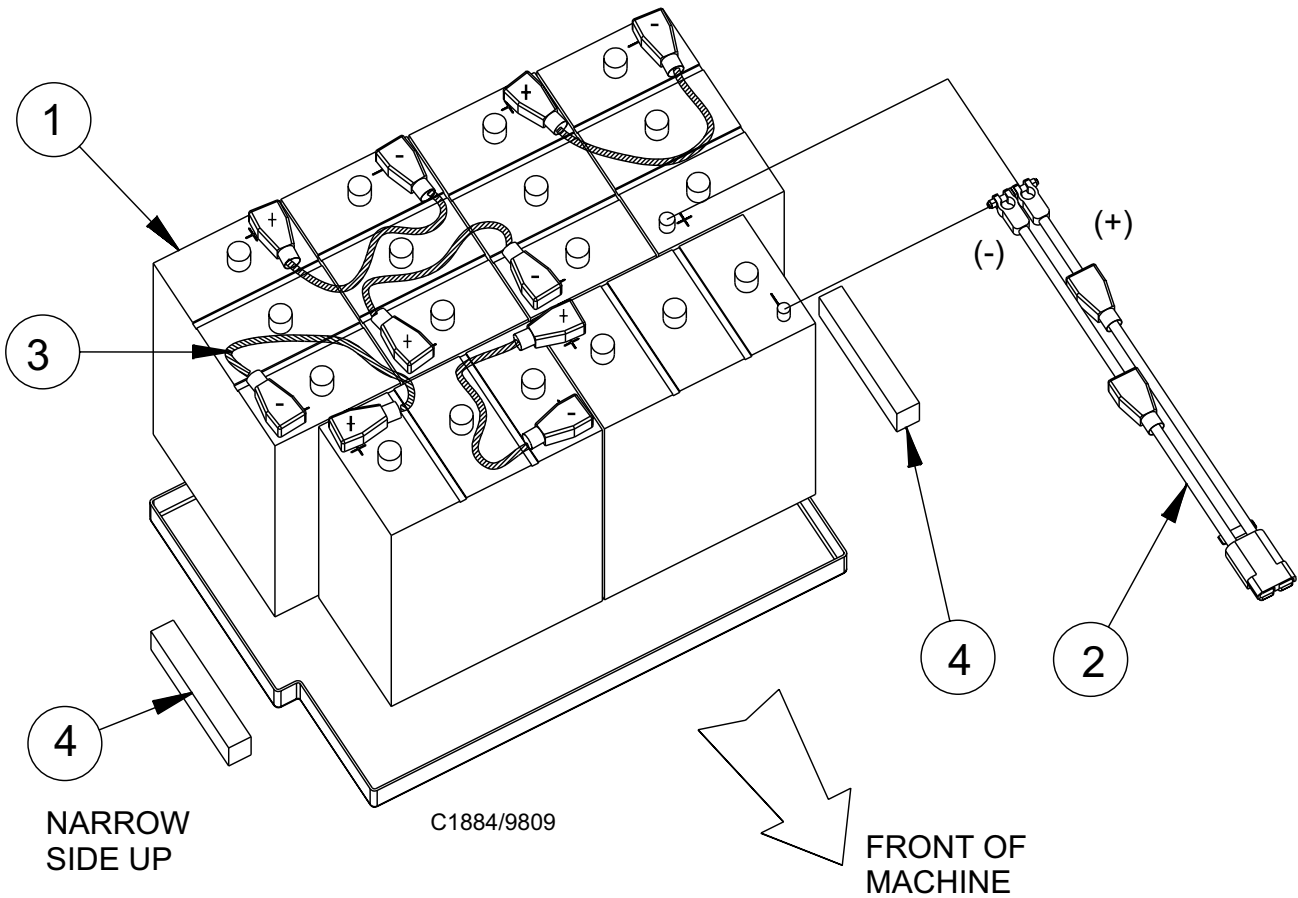
C1886



| KEY NO. | PART NO.   | DESCRIPTION                          | QTY. |
|---------|------------|--------------------------------------|------|
| 1       | 0875-103   | Battery 6v Lead Acid (Wet)(0780-205) | 6    |
| 1       | 0875-104   | Battery 6v Lead Acid (Wet)(0780-206) | 6    |
| 2       | 0875-102   | Connector Assembly (To Battery)      | 1    |
| 3       | 7-90-07286 | Battery Connector Wire               | 5    |
| 4       | 8-75-01206 | Spacer - Battery Pan (6) Volt        | 2    |

C1885

**BATTERY OPTION 370 A. H.**



| KEY NO. | PART NO.   | DESCRIPTION                          | QTY. |
|---------|------------|--------------------------------------|------|
| 1       | 0875-071-2 | Battery 6v Lead Acid (Wet)(0780-203) | 6    |
| 1       | 0875-072-2 | Battery 6v Lead Acid (Wet)(0780-204) | 6    |
| 2       | 0875-102   | Connector Assembly (To Battery)      | 1    |
| 3       | 7-90-07286 | Battery Connector Wire               | 5    |
| 4       | 8-75-01206 | Spacer - Battery Pan (6) Volt        | 2    |

C1884

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**CONNCECTION DRAWING SWEEPER OPTION - PARTS LIST**

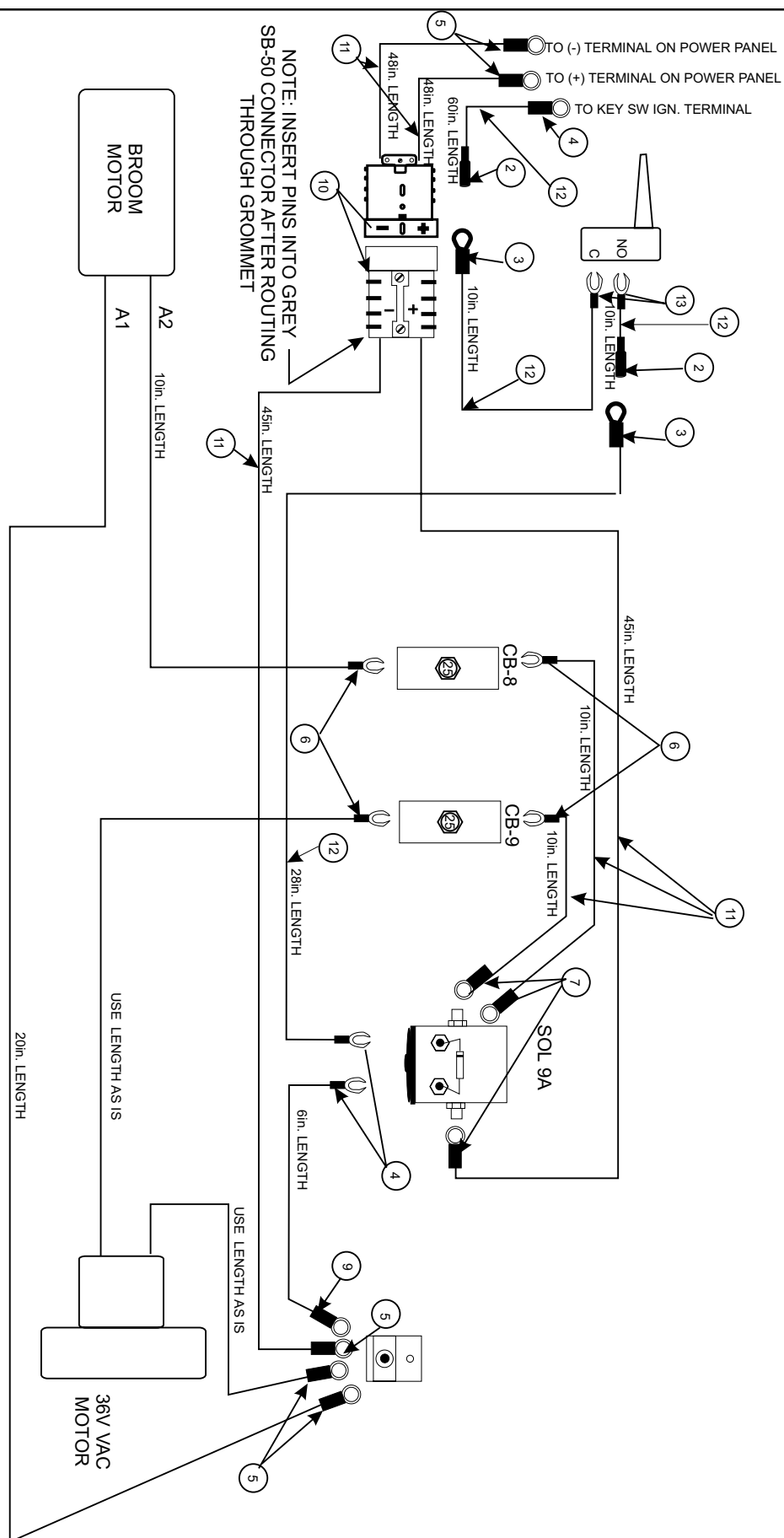
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**OPTION  
0780-468 6 OF 7**

| <u>KEY NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>           | <u>QTY.</u> |
|----------------|-----------------|------------------------------|-------------|
| 1              |                 |                              |             |
| 2              | 2-00-04626      | Terminal, .156 Female Bullet | 2           |
| 3              | 2-00-04578      | Terminal, .156 Male Bullet   | 2           |
| 4              | 2-00-04281      | Terminal, #10 Ring           | 3           |
| 5              | 2-00-04859      | Terminal, .25 Ring           | 5           |
| 6              | 2-00-04714      | Terminla, #6SS               | 4           |
| 7              | 2-00-04284      | Terminal, .31 Ring           | 3           |
| 8              |                 |                              |             |
| 9              | 2-00-02010      | Terminal, .25 Ring           | 1           |
| 10             | 2-00-05411      | SB - 50 Connectors           | 2           |
| 11             | 3-61-00043      | Wire, 10 AWG                 | 18'         |
| 12             | 3-61-00189      | Wire, 16 AWG                 | 10'         |
| 13             | 2-00-04808      | Terminal, #8 SS              | 2           |

C1876/9903

# CONNECTION DRAWING SWEEPER OPTION - EXPLODED VIEW



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**SPARE PARTS KITS 34" & 38" & CE KIT**

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**OPTION  
0760-531  
34"**

| <b><u>PART NO.</u></b> | <b><u>DESCRIPTION</u></b>  | <b><u>QTY.</u></b> |
|------------------------|----------------------------|--------------------|
| 7-77-00120             | Side Squeegee LH, Outer    | 1                  |
| 7-77-00121             | Side Squeegee RH, Outer    | 1                  |
| 7-77-00118             | Side Squeegee RH, Inner    | 1                  |
| 7-77-00119             | Side Squeegee LH, Inner    | 1                  |
| 7-77-00123             | Rear Squeegee, Inner       | 1                  |
| 7-77-00117             | Rear Squeegee, Outer       | 1                  |
| 7-33-02377             | Squeegee Hose              | 1                  |
| 59971A                 | Wheel, Squeegee Adjustment | 2                  |
| 7-33-02378             | Drain Hose                 | 1                  |

**OPTION  
0760-532  
38"**

| <b><u>PART NO.</u></b> | <b><u>DESCRIPTION</u></b>  | <b><u>QTY.</u></b> |
|------------------------|----------------------------|--------------------|
| 7-77-00121             | Side Squeegee RH, Outer    | 2                  |
| 7-77-00118             | Side Squeegee RH, Inner    | 2                  |
| 7-77-00116             | Rear Squeegee, Inner       | 1                  |
| 7-77-00096             | Rear Squeegee, Outer       | 1                  |
| 7-33-02377             | Squeegee Hose              | 1                  |
| 59971A                 | Wheel, Squeegee Adjustment | 2                  |
| 7-33-02378             | Drain Hose                 | 1                  |

**OPTION  
0760-425  
CE Kit**

| <b><u>PART NO.</u></b> | <b><u>DESCRIPTION</u></b>       | <b><u>QTY.</u></b> |
|------------------------|---------------------------------|--------------------|
| 0780-422               | Back-up AlarmOption             | 1                  |
| 0780-462               | Fire Extinguisher               | 1                  |
| 0875-102               | Connector Assembly (To Battery) | 1                  |
| 7-90-07286             | Wire, battery Jumper            | 5                  |

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**AMERICAN-LINCOLN TECHNOLOGY  
RIDER SWEEPER / SCRUBBER  
"BUMPER-TO-BUMPER" LIMITED WARRANTY**

**I. COVERAGE**

A. Subject to the terms and limitations stated herein, American-Lincoln warrants, to the original purchaser only, to repair or replace, at its option and upon the terms set out below, this product or any parts thereof (excluding normal maintenance items) which are defective in materials or workmanship, for a period of (2) two years or 2,000 hours of normal operation from the date of purchase, whichever comes first, provided that the product is operated and maintained in accordance with American-Lincoln's Maintenance and Operations Instruction.

1. (a) During the first (90) ninety days from the date of purchase, American-Lincoln will provide, without charge, parts and on-site labor (including up to three (3) hours total round-trip travel time) to remedy a defective product or part.

(b) During the next (9) nine months or 1,000 hours (whichever come first) American-Lincoln will provide, without charge, parts and labor to remedy a defective product or part; however all travel time for on-site remedy and all shipping and freight charges for off-site remedy of the product or parts thereof shall be the sole responsibility of the purchaser.

(c) During the next (12) twelve months or a total of 2000 hours (whichever comes first) American Lincoln will provide, without charge, parts to remedy a defective product or part, however all labor, travel time for on-site remedy and all shipping and freight charges for off-site remedy of the product or parts thereof shall be the sole responsibility of the purchaser.

B. In addition to the terms listed above, if applicable, the following additional warranty coverage is applied.

1. (a) American-Lincoln warrants to the original purchaser only, to repair or replace, at its option and upon the terms set out below, the drive line electrical components including the electric drive propulsion motor, electric wheel drive motor and electronic drive controller, and all hydraulic pumps and motors, to provide replacement parts which are defective in material or workmanship, for a period of (3) years or 3000 hours (whichever comes first) provided that the product is operated and maintained in accordance with American-Lincoln's Maintenance and Operations Instruction.

(b) American Lincoln warrants to the original purchaser only, to repair or replace, at its option and upon the terms set out below, the internal combustion liquid cooled engine, to provide replacement parts which are defective in material or workmanship, for a period of (5) five years or unlimited hours of normal operation. All labor, travel time, shipping and freight charges shall be the sole responsibility of the purchaser.

(c) American-Lincoln, warrants to the original purchaser only, to repair or replace, at its option and upon the terms set out below, the main frame, debris hopper, solution tank, and the recovery tank, for the life of the machine against failure caused by defects in workmanship or total rust through. For purposes of this coverage, cosmetic deterioration or surface rust does not constitute a failure.

(d) American-Lincoln, warrants to the original purchaser only, to repair or replace, at its option and upon the terms set out below, the batteries which becomes unserviceable under normal use within a period of ninety (90) days from date of sale to the original user with new batteries of equal value. After expiration of the above ninety (90) day period, any battery which fails under normal use will be adjusted to the original user with a new battery of equal specifications on an eighteen (18) months pro rate basis from the date of purchase. Adjustment will be determined using the then current list price, plus transportation costs. Warranty is rendered NULL and Void if battery is not kept filled to the proper level with DISTILLED WATER.

**II. EXCLUSIONS**

☐ This warranty **does not** cover normal maintenance parts and labor, including but not limited to, rubber parts, seals, flaps, brushes, engine maintenance parts, hoses, carbon motor brushes, fluids and routine adjustments.

☐ This warranty **does not** cover damage or failure of the product or any parts thereof which is the result of misuse, negligent operation, handling or repair, or which is the result of modification by any person other than an authorized American-Lincoln service representative.

**III. LIMITATIONS**

A. AMERICAN-LINCOLN MAKES NO WARRANTIES OTHER THAN THOSE SPECIFIED HEREIN. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. AMERICAN-LINCOLN LIABILITY UNDER THIS WARRANTY IS LIMITED TO REPAIR AND/OR REPLACEMENT OF PRODUCTS OR PARTS AS SET OUT HEREIN. AMERICAN-LINCOLN SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES WHICH MAY RESULT FROM A PRODUCT OR PART DEFECT OR FAILURE. ANY EXTENSIONS OF OR MODIFICATIONS MADE TO THIS WARRANTY BY A DISTRIBUTOR OF AMERICAN-LINCOLN ARE THE SOLE RESPONSIBILITY OF THE DISTRIBUTOR.

IV. PROCEDURES AND CONDITIONS FOR WARRANTY CLAIMS AMERICAN-LINCOLN SHALL NOT BE LIABLE FOR REPAIR OR REPLACEMENT OF ANY DEFECTIVE PRODUCT OR PART THEREOF UNLESS AND UNTIL THE ORIGINAL PURCHASER FULFILLS THE FOLLOWING CONDITIONS PRECEDENT TO RECOVERY UNDER THIS WARRANTY:

☐ The original purchaser shall promptly complete and return the warranty and installation registration form included with the product at the time of the purchase;

☐ Upon product or part failure, the original purchaser shall promptly provide notice thereof to his nearest authorized American-Lincoln Service Representative; and

☐ The original purchaser shall permit the product or part to be inspected by American-Lincoln or its authorized representatives, as necessary and expenses for shipping or travel time shall be borne by the parties itemized in paragraph I herein above.

American-Lincoln Technology reserves the right to make changes and improvements to its machines without notice. For best results, use only the correct American-Lincoln Service parts.

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