Vinuteman[®]

SCV 24/26 RIDER SCRUBBER

OPERATION ■ SERVICE ■ PARTS ■ CARE



<u> Minuteman</u>[®]

This manual is furnished with each new **MINUTEMAN SCV**TM **24/26**. This provides the necessary operating and preventive maintenance instructions. Operators must read and understand this manual before operating or servicing this machine.

This machine was designed to give you excellent performance and efficiency. For best results and minimal cost, please follow the general guidelines below:

- Operate the machine with reasonable care.
- Follow the manufacturers suggested maintenance instructions as provided in this booklet.
- Use original Minuteman supplied parts.

TECHNICAL SPECIFICATIONS

Model SCV[™]24/26

Model # SC240000QP \ SC240001QP

SC260000QP\SC260001QP

Current 52 Amps

Voltage, Batteries 36 volts, 3-12volt

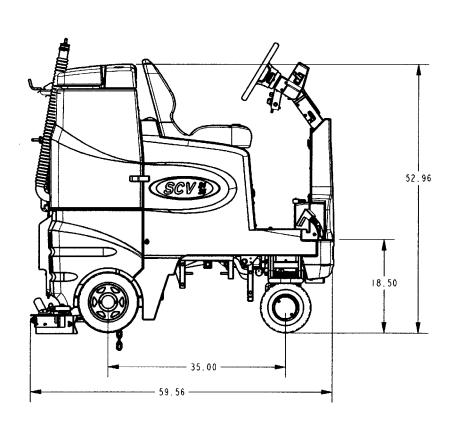
Battery Capacity 210 AH Sound Level 71dB

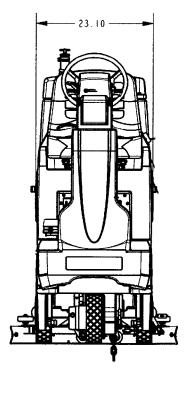
Dimensions (LxWxH) 60" x 23" x 53" (152.4cm x 58.42cm x 134.62cm)

Gross Weight 1,027 lbs (466 kg) with batteries 637 lbs (289 kg) without batteries

Working Grade Transport 16% (10°)
Working Grade Cleaning 10% (7°)

Wheel to Floor Pressure 61 PSI Front, 67 PSI Rear





EC Declaration of Conformity

according to Directives 98/37/EC, 89/336/EEC and 72/23/EEC

We, Minuteman International Incorporated, of 111 South Rohlwing Road Addison Illinois 60101 USA, declare under our sole responsibility that the product SC240000CE, SC240000QPJW, SC240001QPJW, SC260001QPJW, SC260001QPJW, SC260000CE, SC260001CE Automatic Floor Scrubbing machines to which this declaration relates corresponds to the relevant requirements of the EC Directives 98/37/EC, 89/336/EEC and 72/23/EEC. The following standards were used to determine compliance with the Directives: EN 292, EN 60335-2-72, EN 953, EN 55022:1998 AND EN 60335-1:2002.

| SOU | ND | VIBRATION | |
|----------|-------|-------------------------|--|
| 71 dB | 68 dB | 1.9 m/s^2 | |
| Operator | At 3m | At Operators Hand Grips | |

Tests were conducted on 11/11/04 with calibrated sound and vibration equipment under the conditions noted below:

General Condition: Cloudy Wind: 0 km/hr
Temperature: 28°C Humidity: 85%
Barometric Pressure: 29.5

Jeff Pollack, Standards Engineer

Date

Form: EC080 RevA

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| 26" CYLINDRICAL SCRUB DECK BOM | |
| 24" & 26" DISC SCRUB DECK ASSEMBLY | |
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IMPORTANT SAFETY INSTRUCTIONS

Operators must read and understand this manual before operating or maintaining this machine.

Do not operate this machine in flammable or explosive areas.

This machine is designed solely for scrubbing dirt and dust in an indoor environment. Minuteman does not recommend using this machine in any other capacity.

The following information below may cause a potential hazard to the operator and equipment. Read this manual carefully and be aware when these conditions can exist. Take necessary steps to locate all safety devices on the machine and train the personnel operating the machine. Report any machine damage or faulty operation immediately. **Do not use machine if it is not in proper operating condition.**

FOR SAFETY DURING OPERATION:

Keep hands and feet clear of moving parts while machine is in operation.

Make sure all safety devices are in place and operate properly. All covers, doors and latches must be closed and fastened before use.

During operation, attention should be paid to other persons in the work area and especially if small children are present.

Electric motors and components can cause an explosion when operated near explosive materials or vapor. Do not operate this machine near flammable materials such as solvents, thinners, fuels, grain dust, etc.

Store or park this machine on a level surface only. To prevent unauthorized use, machine should be stored or parked with the key removed.

This machine is designed for level operation only. **Do not operate on ramps or inclines**.

This machine is not suitable for picking up hazardous dusts.

Use caution when moving this machine into areas that are below freezing temperatures. Any water in the tanks or hoses can cause damage to the machine.

FOR SAFETY WHEN SERVICING OF MAINTAINING MACHINE:

Stop on level surface.

Disconnect the power to the machine by pressing the Red Emergency Disconnect Button when charging batteries or during installation or removal of brushes.

Avoid moving parts. Do not wear loose jackets, shirts, or sleeves when working on machine.

Avoid contact with battery acid. Battery acid can cause burns. When working on or around batteries, wear protective clothing and safety glasses. Remove metal jewelry. Do not lay tools or metal objects on top of batteries.

Charging batteries generates explosive gasses. **Do not charge batteries when open flames or sparks are present. Do not smoke.** Make sure the charger is turned off before disconnecting it from the machine.

Charge the batteries in a well-ventilated area with the battery cover removed completely.

Do not clean machine with a pressure washer.

Authorized personnel must perform repairs and maintenance. Use Minuteman supplied replacement parts.

SAVE THESE INSTRUCTIONS

INSPECTION

Carefully unpack and inspect your **SCV Rider Scrubber** for shipping damage. Follow unpacking instructions on shipping pallet. Each unit has been tested and thoroughly inspected before shipment. Any damage is the responsibility of the delivery carrier who should be notified immediately.

ELECTRICAL

This machine is battery operated and designed to operate on 36 volts DC (3) 12-volt batteries.

BATTERIES

The recommended batteries are rated 210Ah (Minuteman P/N 956210). We do not recommend mixing AMP hour capacities. Any alternate battery sets can be used if they equal physical size and capacity.

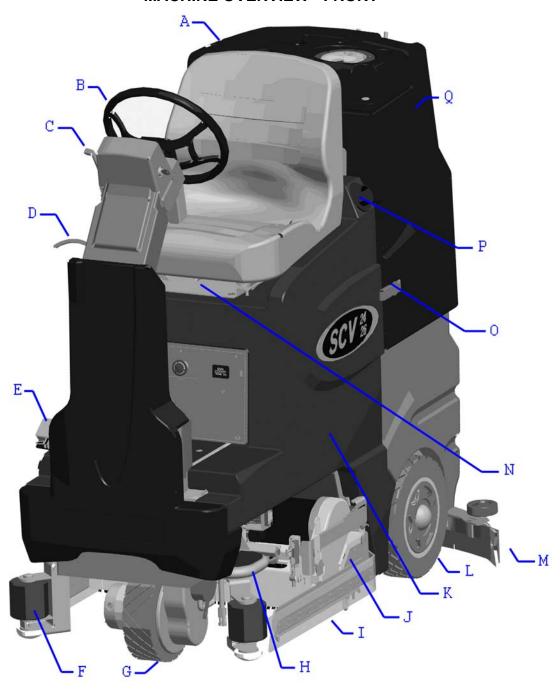
OPERATOR RESPONSIBILITY

Read this manual carefully before operating this machine.

The operator is responsible in taking care of the daily maintenance and check ups of the machine to keep it in good working condition. The operator must inform the service mechanic or supervisor when the scheduled maintenance intervals are required as stated in the MAINTENANCE section of this manual.

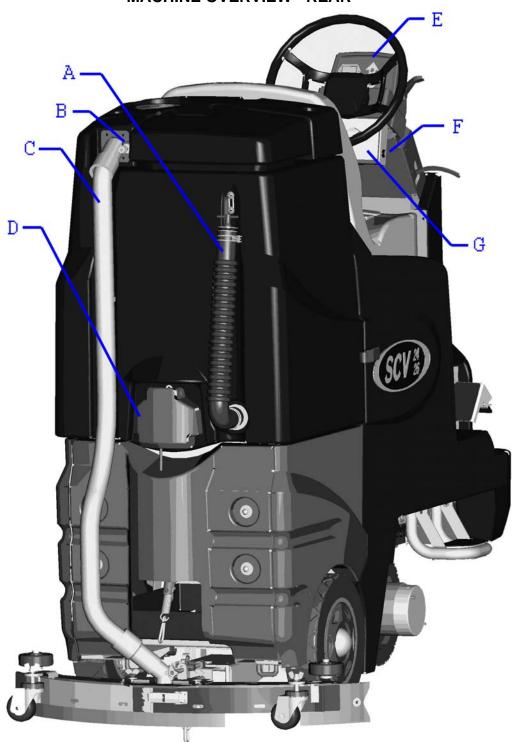
Before starting familiarize yourself with the machine and its controls (see "Machine Overview, Front", "Machine Overview, Rear", "Operator Compartment", "Control Console" diagrams).

MACHINE OVERVIEW - FRONT



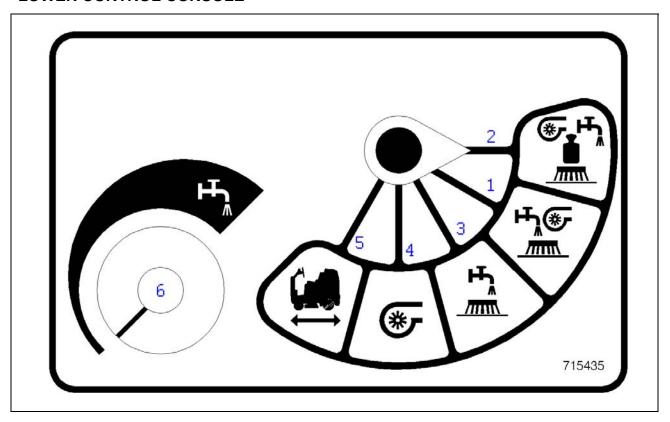
| Α | Recovery Tank Lid | G | Front Drive Wheel | М | Rear Squeegee |
|---|---------------------|---|-------------------|---|-------------------------|
| В | Steering Wheel | Η | Foot Step | Ν | Seat Adj. Lever |
| С | Directional Lever | ı | Side Squeegee | 0 | Safety Latch |
| D | Tilt Steering Lever | J | Scrub Deck | Р | Solution Tank Fill Port |
| Ε | Accelerator Pedal | K | Solution Tank | Q | Recovery Tank |
| F | Roller Bumper | L | Rear Wheel | | |

MACHINE OVERVIEW - REAR



| A Recovery Tank Dump Hose | Ε | Upper Control Console |
|----------------------------------|---|-----------------------|
| B Off Aisle Wand Hose Connection | F | Horn |
| C Recovery Hose | Н | Lower Control Console |
| D Cleanout | | |

LOWER CONTROL CONSOLE



1. REGULAR SCRUB MODE

When the machine is running in this mode, the machine will perform all operations. This mode can be used for day-to-day tasks under normal conditions. When the operator sets the *directional switch* to *forward* and activates the *accelerator handle*, the solution pump will turn on, the brushes will turn on and be lowered to the floor, as well as the rear squeegee. While operating in this mode, the solution will be dispersed into the brushes, which will scrub the floor allowing the chemical in the solution to break down the dirt on the floor. As the machine continues to move forward, the rear squeegee and vacuum system will recover the dirt and dispensed solution. If the operator stops moving, the machine will automatically raise the scrub deck and turn off the brushes. If the *directional switch* is changed to reverse the machine will continue to operate normally, only the rear squeegee will raise up.

2. HEAVY SCRUB MODE

This mode is similar to *Regular Scrub*. The machine will continue to operate the same was as if it was in *Regular Scrub Mode*, only this mode applies more solution and brush pressure is increased. This mode is used for high traffic areas and areas that have been heavily soiled, but do not require time for the solution to soak.

3. DOUBLE SCRUB MODE

When the machine is running in this mode, the machine will perform all operations except dirty solution recovery. This mode can be used if the floor is heavily soiled and the chemical will need additional time to emulsify grease and oils that are on the floor. When the operator sets the *directional switch* to either the *forward* or *reverse* position and activates the *accelerator lever*, the solution pump will turn on, the brushes will turn on and be lowered to the floor. While operating in this mode, the solution will be dispersed into the brushes, which will scrub the floor allowing the chemical in the solution to break down the dirt on the floor. As the machine continues to move forward or back, the rear squeegee and vacuum system are not on, which allows the solution to stay on the floor emulsifying the grease and oil. If the operator stops moving in either direction, the machine will automatically raise the scrub deck and turn off the brushes. After double scrubbing, the operator should use *the vacuum only mode* to recover the dirty solution water from the floor.

4. VACUUM ONLY MODE

When the machine is running in this mode, the machine will only lower the rear squeegee and turn on the vacuum system to recover the dirty solution from the floor. This mode is usually chosen after double scrubbing to recover the dirty solution but it can also be used to pick up spills. When the operator sets the *directional switch* to *forward*, the rear squeegee will be lowered to the floor as the vacuum turns on, pulling the dirty solution water from the rear squeegee into the recovery tank. If the operator stops moving forward and sets the directional switch to *reverse*, the rear squeegee will retract (protecting it from damage) and the vacuum motor will turn off after a few seconds. If the operator quits moving in either direction, the machine will automatically raise the squeegee and turn off the vacuum motor after a few seconds.

5. TRANSPORT MODE

When the machine is set in this mode, none of the cleaning functions of the machine will operate. This mode is only used to transport the machine from one location to another at a faster rate of speed.

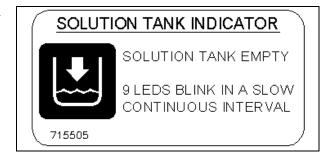
6. SOLUTION CONTROL

This control will adjust the amount of solution that is being dispersed to the floor while in one of the scrub mode. Adjust control clockwise to increase the amount of solution being dispersed. The solution distribution range is from zero (0) to a maximum of ³/₄ GPM.

UPPER CONTROL CONSOLE

EMPTY SOLUTION TANK INDICATOR

Once the solution tank has become empty the battery gauge will blink a solid 9 LEDs at a constant interval to alert the driver that the solution tank needs to be filled.



LOW BATTERY INDICATOR

The battery gauge bar icon will be

flashing to signal the operator that the machine is almost out of power. Once this signal is displayed to the operator, all functions will shut off including the transport mode. The operator has to turn the *key switch OFF and then, ON* to reset the machine. The machine then will only have a few minutes left of reserve power for a short *Vacuum only mode* to pick up remaining solution on the floor and *Transport* power.

STEERING WHEEL

The steering wheel is adjustable for operator comfort by pulling the *tilt-steering lever* up and positioning the steering wheel up or down (there are three possible positions). By pulling on the *tilt-steering lever* and positioning the steering column in an upright fashion, enables the operator more room when climbing up and down the machine.



OPERATION OF CONTROLS

POWER SAVE MODE

The SCV is equipped with a power save feature to conserve battery power. If the key switch power is left ON and none of the controls are activated for a period of fifteen minutes, the SCV automatically goes into "power down mode" and turns OFF the power to conserve your batteries in case the operator forgets to turn the key switch off or leaves the machine unattended.

ACCELERATOR PEDAL

Located on the right side of the operator compartment on the floor is the accelerator pedal. This pedal controls the propelling speed of the machine. The farther the pedal is pushed down the faster the machine will travel. As discussed earlier, the directional switch governs the direction of travel the machine will take. Switching the directional switch with your foot pushed on the pedal will make your machine change directions (a very slight delay may occur before the direction of travel changes when switching directions on the fly). The accelerator pedal in interlocked with the seat switch, making machine propulsion not possible without the operator sitting on the seat.

SEAT

The ergonomically designed seat is located on top of the solution tank. There is a lever under the seat that allows the operator to adjust the seat forward or backward for operator comfort. There is an interlock switch located inside the seat. This makes it impossible to engage the traction drive circuitry without the operator on the seat. If the operator were to fall off the machine, the traction drive circuitry would turn off.

DIRECTIONAL SWITCH

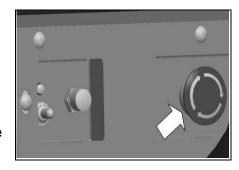
Located on the right side of the *upper control console*, this switch controls the direction in which the SCV will move when the *accelerator pedal* is activated. There are two arrow located on the *upper control console* with LEDs in the center to indicate which mode the SCV is in. The arrow pointing forward with the amber LED indicates the SCV is in forward mode. The arrow pointing backward with the red LED indicates the SCV is in reverse mode.

PARKING BRAKE

This machine is equipped with an *Electro-magnetic brake* built-in on the traction drive motor. When the machine's power is turned off (using either the key or the emergency button), the *E-mag* brake is activated and the traction motor is prevented from moving.

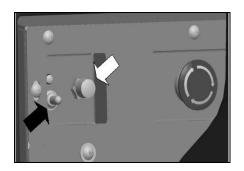
EMERGENCY DISCONNECT BUTTON

This button is located in the middle of the electrical panel that is directly underneath the operator's seat. When the *red* emergency button is pressed, power will be turned off. Use this button in case of a machine emergency. The red knob needs to be raised in order to run the machine. To reactivate, turn the knob as shown by the arrow on the switch and the button will pop up. *All operational settings* are retained even when the power is turned off and on.



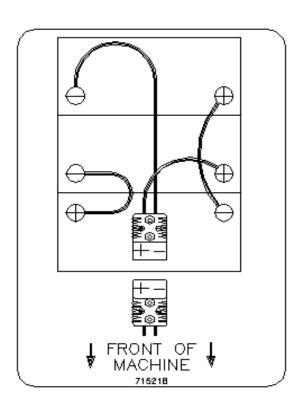
CIRCUIT BREAKERS

The circuit breakers are located next to the emergency disconnect button. The *6-amp breaker* (indicated by white arrow). This breaker protects all auxiliary circuits on the machine (headlights, horn, and back-up alarm). The *100-amp breaker* (indicated by black arrow) protects the main system circuit (controller). Each main component is individually protected with an internal breaker built-in the controller. (See fault code table) and can be reset by turning the key switch off a few seconds and then on again.



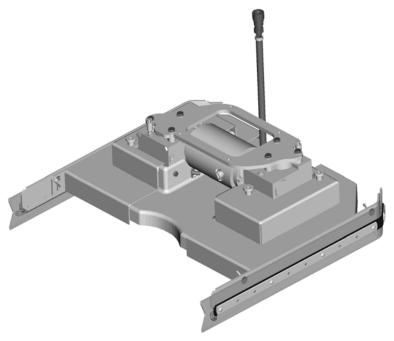
BATTERY COMPARTMENT

The battery compartment is located on the rear of the machine under the recovery tank. Unlatching the two safety latches on the side of the machine enables the operator to tilt the recovery tank and access the batteries for servicing and maintenance (make sure recovery tank has been drained before tilting). The battery compartment contains three 12-volt batteries connected in series. Connect the batteries according to the battery connection diagram (see diagram). The recommended batteries are 210Ah (Minuteman P/N 956210).

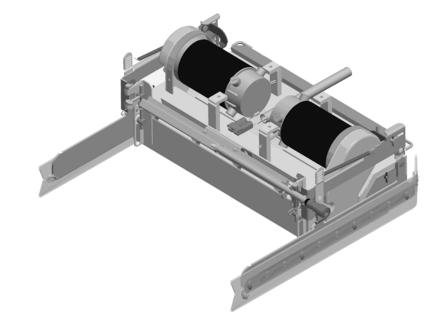


SCRUB DECK

Minuteman offers two deck types (*Cylindrical and Disc*) to fit your specific needs. The SCV design is very dynamic wherein the decks are interchangeable in a matter of minutes whenever necessary (removal of four bolts, and two quick-connects). The *cylindrical brush deck* has four built-in spray jets to uniformly dispense cleaning solution on the floor and a wet sweeping debris tray to collect loose objects on the floor. *The disc brush deck* dispenses cleaning solution through the center hub and contained within the bristle area for efficient agitation of cleaning solution to the floor and channeled to the rear of the machine. The disc brushes are also easily removed and installed with the quick release clamp by using any of the three access doors. Another nice feature that these scrub decks have is the ability to have uniform brush pressure applied to the floor at all times. Since the scrub deck brush pressure is computer controlled, it will automatically adjust and compensate to uneven contours on the floor while maintaining brush pressure.



Disc Scrub Deck

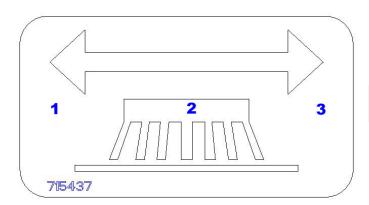


Cylindrical Scrub Deck

SCRUB DECK SHIFT

The SCV 2426 now incorporates the new side shift feature, which allows the scrub deck to move two inches to the right to allow users to get into tighter quarters such as under shelving or cleaning close to walls.

The side shift is activated by a lighted three-position rocker switch located directly in front of the drivers seat, just below the steering wheel (See figure below). The 3 position switch has 3 main functions, return (1), stop (2) and right offset (3). In order to move the deck right, 'click' the switch from the stop position to the right offset position, you may choose to 'click' stop at any time for an arbitrary side shift, otherwise the deck will achieve it's full two inch side shift. In order to return the deck to its original position 'click' the switch to the return position.



Detailed view of 3-Position Switch



Location of Side Shift Switch

SCRUB DECK INSTALLATION

When installing a cylindrical deck to a machine:

- 1. Install brushes **after** the deck has been mounted to avoid flat spots on the brushes.
- 2. Use a piece of cardboard underneath the deck to prevent scratches to the painted surface when sliding the deck under the machine.
- 3. Make sure the scrub deck is oriented correctly with the spray jets towards the front of the machine.

When installing a disc scrub deck to a machine:

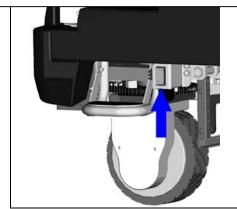
- 1. Install brushes on the scrub deck; this aids the installer in sliding the deck assembly into position.
- 2. Make sure the scrub deck is oriented correctly with the solution hose tee fitting towards the front of the machine.

INSTALLATION INSTRUCTIONS

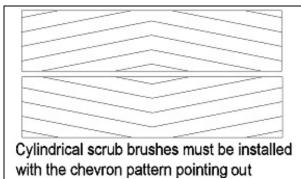
Manual Override Switch.

Located under front left side of

- 1. Park the machine on a flat or level surface.
- 2. Turn the key switch to the ON position and select the transport mode on keyboard.
- 3. Slide the scrub deck assembly underneath the machine (follow instructions as described above)
- 4. Position the scrub deck to align the mounting brackets with the mounting lugs on the lift linkage.
- 5. Lower the lift linkage to the floor by pressing the manual override switch for five seconds.



- 6. Lower the lift linkage mounting lugs until they barely touch the scrub deck mounting brackets.
- 7. Fasten with the four (4) 711242 bolts, 711515 flat washer and 711546 lock washer.
- 8. For cylindrical scrub deck only:
 - a. Remove wing nut on side squeegee assembly and swing out side squeegee to access door.
 - b. Remove the two access doors (one each end) by removing the (3) nyloc nuts.
 - c. Install the brushes by sliding through the access opening. (See Figure 1 for correct orientation)
 - d. Align the notches on the brush with the drive pins on the hub.
 - e. Push brush all the way until it



bottoms out.

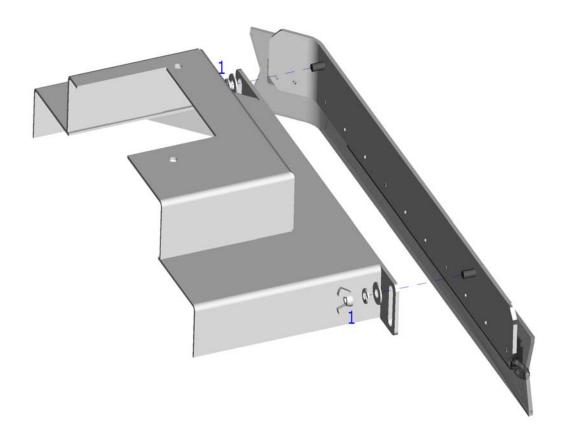
- f. Insert access door hub to the other end of brush.
- g. Reinstall nuts and tighten.

SIDE SQUEEGEE

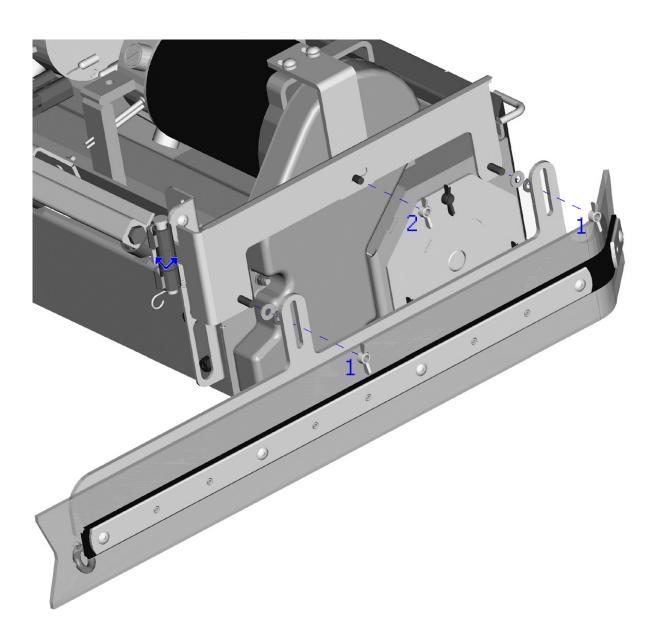
The side squeegees (left and right) are attached to the scrub decks. These items channel the dirty solution to the rear squeegee, helping contain the water within the machine's cleaning path. These squeegees are raised when the scrub deck is in the raised position.

The side squeegees are pre-adjusted at the factory. Adjustments may be required when replacing worn blades or to achieve optimum performance for different floors and conditions.

To adjust the side squeegees, simply loosen the two (front and back) wing nuts (item 1) located behind the side squeegee blades. Lower the scrub deck by switching to a scrubbing mode and when the brushes start up, turn off the key switch. At this point the side squeegees should be resting vertically (no deflection) on the floor. Press down on the side squeegee bracket assembly from each end while making sure that the blade is uniformly deflected in a 45 angle along its whole length. Tighten the wing nuts. Turn the steering wheel all the way to the left or right and start pushing the machine to the side to inspect the blade deflection and wiping action. Repeat the steps above until a satisfactory result is obtained.



Cylindrical Side Squeegee Adjustment
In order to adjust the side cylindrical side squeegee it follows the same procedure as above with one additional step. In addition to removing the wingnuts (item 1) there is also

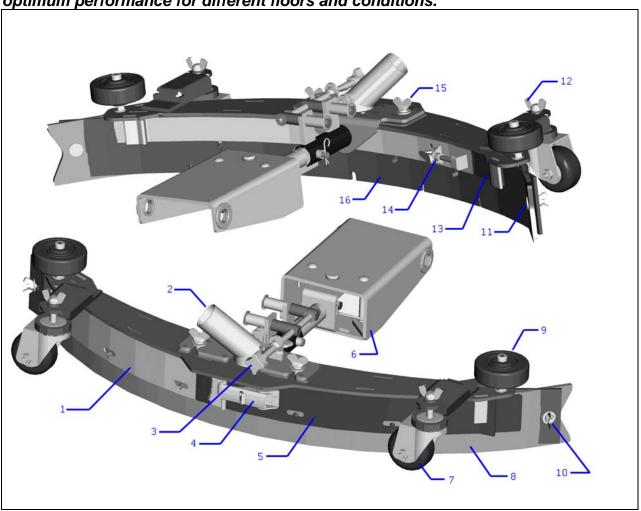


REAR SQUEEGEE

The rear squeegee is the main element that acts as the conduit that transfers the spent solution into the recovery tank. A daily maintenance check of this component is essential to have optimum machine performance. The rear squeegee assembly is equipped with a universal front blade that allows the operator the option to use a slotted and a non-slotted side for specific applications. Each blade configuration has two usable edges. The rear blade however has four usable edges.

The squeegee is pre-adjusted at the factory. Adjustments may be required to get





| 1 | Rear Strap (catch side) | 9 | Guide Wheel |
|---|-------------------------|----|---------------------|
| 2 | Recovery Hose Intake | 10 | Nylon Wing Nut |
| 3 | Pitch Adj. Knob | 11 | Nylon Bolt |
| 4 | Latch | 12 | Wing Nut |
| 5 | Rear Strap (latch side) | 13 | Front Strap (short) |
| 6 | Turnbuckle | 14 | Toggle Clamp |
| 7 | Caster | 15 | Wing Bolt |

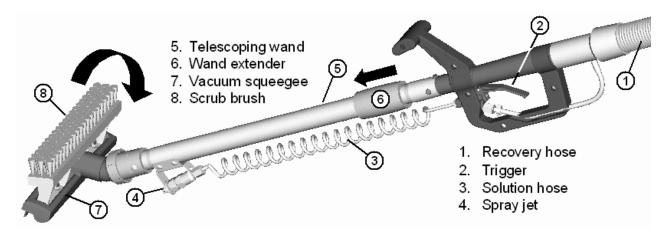
REAR SQUEEGEE ADJUSTMENT

- Ensure that the scrubber is on a relatively flat surface. Turn on the key switch and select the *Vacuum only* mode. This lowers the squeegee to the floor and turns the vacuum motor on.
- 2. Move the scrubber one or two feet forward slowly while someone behind the machine checks the rear squeegee blade (item 1) for uniform deflection to the floor.
- 3. If uneven deflection or lay is evident, minor adjustments may be necessary to avoid streaking and uneven wear on the blade.
- 4. To correct this, loosen the wing jam nut (item 2) in order to adjust the caster height. If the squeegee blade is deflecting too much, the casters (item 3) need to be lowered to control the down pressure. Lower the caster by turning the exposed threaded stem (item 4) on the caster clockwise. Make the adjustment a few turns at a time. Repeat step 2.
- 5. If the blades are not deflecting enough, raise the caster by turning the stem counterclockwise to adjust the caster height to allow more down pressure on the squeegee. **Repeat step 2.**
- 6. Make sure there is even deflection on the entire length of the rear blade. Adjust the casters and retighten the wing jam nuts to lock the caster setting in place.
- 7. Pitch adjustment is necessary if the outer ends on the squeegee blade do not contact the floor and there is too much deflection in the middle area or if the outer ends are over deflected and there is no contact in the middle.
- 8. To adjust the pitch, repeat step 2.
- 9. Loosen the two wing nuts (item **5**) that lock the turnbuckle assembly. Turning the knob (item **6**) clockwise or counter-clockwise controls the forward and backward pitch of the squeegee. Having the rear blades deflected uniformly along its entire length is the desired set-up.
- 10. Repeat step 2 until desired set-up is achieved.
- 11. In certain applications where a non-slotted front wiper blade (item 7) is needed, detach the rear squeegee assembly by loosening the two wing bolts (item 8). Unlock the toggle clamp (item 9) on the front squeegee to release the front long strap (10) and slide the front short strap (item 11). Flip the blade over to the non-slotted side. Reattach the straps and lock the clamp back in place.
- 12. You can also easily replace the rear blade by unlatching the latch (item **14**) and removing the two rear straps (items **12** & **13**) by sliding them off the assembly. You can then flip the blade over in order to use a new edge for better wiping action.

OFF-AISLE WAND (Optional)

The *SCV* is equipped with a ready-to-use built-in telescoping off-aisle wand system for use in hard to reach areas. By turning the *pump switch* ON (located on the control console, see page 11 for illustration) the off-aisle wand is ready to use in seconds. The wand is also equipped with the patented flip-flop tool that allows the operator to switch from scrub brush to squeegee tool by just rotating the tool end.

OFF-AISLE WAND TOOL (Optional)



The off-aisle wand tool as described in the previous page is composed of the following items:

- The *recovery hose* is connected to the end of the wand on one end and to the diverter assembly (item F) on the other end. This hose has swivel cuffs on both ends that allow the operator a good range of motion and the solution hose to be inside the recovery hose.
- 2. The *trigger* controls the solution flow to the spray jet. Squeezing the trigger opens an internal valve to dispense cleaning solution.
- 3. The coiled **solution hose** acts as a conduit from the trigger to the spray jet, and allows hose to be extended along with the wand.
- 4. The *spray jet* dispenses the cleaning solution to soak soiled areas that are not accessible to the main scrub deck.
- 5. The *telescoping wand* allows the length to be adjusted for operator comfort and better storage when not in use.
- 6. Sliding the **wand extender** forward (as shown above) extends the wand length during use and retracts the wand by pulling it back for the storage position.
- 7. The flip-flop tool gives the operator complete flexibility when changing from the **scrub brush** mode to **vacuum squeegee** mode by simply rotating the end.

When the off-aisle wand switch is turned ON, the off-aisle wand switch LED will be lit as well as the battery gauge will flash to indicate that you are in the off-aisle tool mode. This switch turns on the pump to supply solution to the wand spray jet and the vacuum motor to recovery the dirty water. When the recovery tank is full, the vacuum motor and the solution pump automatically shuts off.

THE SCV RIDER

This machine was designed with total operator comfort and ease of use in mind. All machine components have been designed as a total system to efficiently clean dirty floors. The SCV has four available scrub head types and sizes to fit specific applications. Please contact your Minuteman representative for specific recommendations for the correct scrub head type, size, and brush type and chemical applications.

Before using the machine, always perform the following steps to ensure proper machine operation.

- Check under the machine for leaks.
- Check the rear and side squeegees for wear and damage.
- Check the steering for proper operation.
- Check the solution and recovery tanks.

After using the machine, always perform the following steps:

- Check the battery charge level. Charge batteries if necessary. When charging batteries, extra precaution is required:
 - Battery acid can cause burns. When working on or around batteries, always wear protective clothing and safety glasses. Remove metal jewelry.
 Do not lay tools or metal objects on top of the batteries.
 - Charging batteries generate explosive gasses. **DO NOT CHARGE BATTERIES WHEN OPEN FLAMES OR SPARKS ARE PRESENT. DO NOT SMOKE.** Make sure the charger is turned off before disconnecting it from the batteries. Charge the batteries in a well-ventilated area. Fluid levels should be checked before and after charging and maintained at the proper levels. If low, add water until the metal plates are covered. If the machine is not used for an extended period of time, batteries should be kept fully charged with a boost charge once a week.
- Check for wire, string, or twine wrapped around the scrub brushes.
- · Check the squeegees for wear and damage.
- Check the rear squeegee suction hose and off-aisle wand hose for obstructions.
- Empty and clean the debris box (cylindrical systems only).
- Drain and clean the recovery tank.
- Check under the machine for leaks.
- Check the service records to determine maintenance requirements.

WARNING!

- Be sure you understand the machine controls and their functions.
- While on ramps or inclines, avoid sudden stops when tanks are filled.
- Avoid abrupt sharp turns. Slow down driving speed when going downhill.
- Always drive up when cleaning ramps.

MACHINE OPERATION

Follow the instructions in preparing the machine for use as described in this manual.

- 1. While seated on the machine, adjust the steering wheel to desired position using the tilt lever.
- 2. Turn the **Key switch ON** (I). The Battery Gauge will light up and display the *Remaining Battery Life.*
- 3. Select one of the five available **Modes** on the **Control Console** for the required task. Refer to the *Main Keyboard section* of this manual for a complete description of the functions.
- 4. Determine the direction you need to travel by selecting **forward** or **reverse** on the **Directional Switch.** Vary the pressure exerted on the accelerator pedal to propel the machine at the desired speed.
- 5. Stepping on the **Accelerator Pedal** turns on the *Transport, Brushes, Water Flow, Vacuum* and lowers the *Rear Squeegee* accordingly to the Mode selected. If the operator steps on the accelerator pedal before, or turns the key switch "ON" at the same time, the machine will not move as a safety precaution. Simply remove your foot off the pedal and step on the pedal again to drive the machine. Please refer to the *Main Keyboard section* of this manual for a complete description of the functions.
- 6. When **Reverse** is selected on the Directional Switch, the **Back-up Alarm** will be activated and the **Rear Squeegee** automatically is raised when you step on the accelerator pedal. However, the Scrub brushes will continue to rotate and solution will continue to flow.
- 7. Start scrubbing by driving the machine forward in a straight line at 3/4 speed and overlap each path by 2 to 3 inches. Adjust your speed; brush pressure and solution flow according to the condition of the floor.

CAUTION!

To avoid any damage to the floor, keep the machine moving when the brushes are turned on.

- 10. When scrubbing, check behind the machine occasionally to see that all the dirty water is being picked up. If streaking occurs, your **Recovery Tank** may be *full*, the **Squeegee hose** may be *clogged*, or the **Rear Squeegee** may require some *adjustment*.
- 11. Make the necessary adjustments on the **Rear and Side Squeegees** if streaking occurs both in straight paths and in turns. Pleas refer to the *Rear Squeegee* and *Side Squeegee* section of this manual before making any adjustments.
- 12. In cases where the floors are extremely soiled and dirty, the **Double Scrub** mode may be needed. As described in the *Main Keyboard section* of this manual, this mode allows the operator to be able to scrub an area without recovering the cleaning solution with the rear squeegee in the raised position (no vacuum) to allow the cleaning solution a longer time to loosen dirt. A final pass on the same area is made with the mode switched over to either **Full Function** or **Vacuum Only** mode to recover the dirty water.
- 13. The recovery tank has a safeguard for overflow protection to guard against water from entering the vacuum system when the recovery tank is full. The vacuum will stay ON for 15 seconds and then shut-off automatically. A ball float shut-off system has also been integrated into the Recovery Tank. When the dirty water reaches a certain level, the ball gets suctioned into the vacuum manifold and blocks the

- airflow thus, preventing the machine from picking up more liquid. When this happens, the operator is then required to stop scrubbing and empty the recovery tank.
- 14. To stop scrubbing, select the **Transport mode**. This will automatically stop the **Solution Flow**, raise the **Scrub deck**, and raise the **Rear squeegee** (there is a 15 second delay for the vacuum motor).
- 15. Drive the SCV to a designated dirty water disposal area and empty the Recovery tank. To empty, remove the **Drain hose** from its storage hanger. Unscrew the plug and hold the hose end above the water level in the tank to avoid sudden, uncontrolled flow of dirty water. With the plug completely off, carefully direct the water flow to the desired drain. Reinsert the plug and tighten and return to its storage hanger.
- 16. The recovery tank should be rinsed out to remove solids in the tank. Open the **Cleanout cap** to remove the **Stopper plug.** Tilt the recovery tank (similar to accessing the batteries) and clean the sludge that has settled in the sump area by either back flushing or by scraping it out. Be sure to tightly secure the **Stopper plug** and cleanout cap before continuing to operate the scrubber.
- 17. Refill the solution tank and continue scrubbing until the job is done or when the machine runs out of power.
- 18. The **battery gauge bar icon** will flash to signal the operator that the machine is almost out of power. Once this signal is displayed to the operator, *all functions will shut off* (brush will turn off and the scrub deck will raise up, water flow will cease, the rear squeegee will raise up and the vacuum motor will turn off) including the transport mode. The operator has to turn the **key switch OFF** and then, **ON to reset** the machine. The machine then will only have a few minutes left of reserve power for a short *Vacuum only mode* to pick up remaining solution on the floor and *Transport* power to drive to the battery recharging station.

AFTER USE:

- 1. When finished scrubbing, select the **Transport mode**, *all functions will shut off* (brush will turn off and the scrub deck will raise up, water flow will cease, the rear squeegee will raise up and the vacuum motor will turn off). Drive the machine to a service area for daily maintenance and review items that may need service.
- 2. Empty the solution tank, by directly opening the **Garden hose valve** underneath the machine into a drain on the floor or use a garden hose and attach it to the fitting to remotely drain the solution tank. Rinse the tank with clean water to prevent any build-up of dried up chemicals that could cause clogging in the plumbing.
- 3. Empty the recovery tank as described on line 15 and 16.
- 4. Remove the **brushes** or pad holders and rinse them in warm water and hang to dry.
- 5. Remove the **rear squeegee**, rinse with warm water and reinstall after cleaning.
- 6. Remove the **side squeegees**, rinse with warm water and remove the **debris box** (cylindrical system only) and clean thoroughly. The debris box can be removed from either side of the machine by tilting the box up and away from the housing and then pulling it out. Reinstall the debris box and side squeegees after cleaning.
- 7. Check the **maintenance schedule** on the next page and perform any required maintenance before storing the machine.
- 8. Store the machine indoors in a clean dry place. Keep from freezing. Leave solution and recovery tank lids open for ventilation to prevent odor build-up.
- 9. Turn **Key switch** OFF (O) and remove key.

MAINTENANCE SCHEDULE

| Daily | Weekly | Monthly | Yearly |
|--------------------|---------------------|------------------|--------------|
| Charge Batteries | Check Each Battery | Lubrication – | Check Carbon |
| | Cell(s) Water Level | Grease Fittings, | Brushes |
| | | chains, etc. | |
| Check/Clean Tanks | Inspect Scrub | | |
| & Hoses | Housing Skirts | | |
| Check/Clean/Rotate | Inspect and Clean | | |
| the Brushes/Pads | Solution Filter | | |
| Check/Clean the | Check Foot/Parking | | |
| Squeegee | Brake for Wear & | | |
| | Adjustment | | |
| Check/Clean | Clean Spray jets on | | |
| Vacuum Shut-Off | Cylindrical System | | |
| Float | | | |
| Check/Clean the | | | |
| Vacuum Motor | | | |
| Foam Filter | | | |
| Clean Hopper on | | | |
| Cylindrical System | | | |

 Have Minuteman check the vacuum motor carbon motor brushes once a year or after 300 operating hours. The brush motor carbon brushes should be checked every 500 hours or once a year.

NOTE: Refer to the Service Manual for more detail on maintenance and service repairs.

LUBRICATING THE MACHINE

Regularly scheduled lubrication of certain machine parts should be performed to insure trouble-free operation of the machine. *Apply a generous amount of grease into the fittings on the machine until grease seeps out around the bearings.*The grease points are listed below:

□ Rear squeegee caster wheel axle (2)
 □ Rear squeegee caster wheel stem (2)
 □ Side squeegee caster wheel axle (2)
 □ Side squeegee caster wheel stem (2)
 □ Steering wheel chain sprockets and idlers
 Apply lubricant or light machine oil to lubricate the:
 □ Rear squeegee general pivot points
 □ Side squeegee general pivot points
 □ Scrub deck linkages
 □ Drive wheel assembly seals.

GENERAL MACHINE TROUBLESHOOTING

| Problem | Possible Cause | Remedy |
|------------------------|-----------------------------------|---------------------------------|
| | Worn or torn squeegee | Rotate or replace blades |
| Poor water pick-up | blades | · |
| | Squeegee out of adjustment | Adjust so blades touch floor |
| | | evenly across entire width |
| | Recovery tank full | Empty recovery tank |
| | Recovery tank drain hose | Secure drain hose cap or |
| | leak | replace |
| | Recovery tank lid gasket leak | Replace gasket lid cover |
| | | properly |
| | Debris caught in squeegee | Clean squeegee |
| | Vacuum hose clogged | Remove debris and flush hose |
| | Using too much solution | Adjust solution control valves |
| | Vacuum hose to squeegee or | Reconnect or replace |
| | recovery tank disconnected to | squeegee hose |
| | squeegee or damaged | |
| | Worn brushes | Rotate or replace brushes |
| Poor scrubbing | Wrong brush or cleaning | Consult Minuteman |
| performance | chemical | |
| | Debris caught on scrub | Remove debris |
| | brushes | |
| | Moving machine too fast | Slow down |
| | Low battery charge | Recharge batteries |
| | Solution tank empty | Fill solution tank |
| Inadequate solution | Recovery tank full | Empty recovery tank |
| flow or no solution to | Solution lines, valves, filter or | Flush lines, and clean |
| the floor | spray jets clogged | solution filter and spray jets. |
| | Solution solenoid valve | Clean or replace valve |
| No solution to off- | Recovery tank full | Empty recovery tank |
| aisle wand spray jet | Solution tank empty | Refill solution tank |
| | Emergency stop switch | Activate switch by turning as |
| | tripped | indicated by arrows. |
| | Operator seat safety switch | Operator has to be seated. |
| Machine does not run | | Check for open circuit and |
| wachine does not run | Main system controller | replace Check error fault codes |
| | Main system controller | (See service manual) |
| | Tripped 100 amp circuit | Check for electrical short |
| | breaker | circuit |
| | | Reset machine: Rest |
| | | breaker and turn key switch |
| | | off and restart. |

| No FWD/REV drive | Drive system speed controller. | Check error fault codes (See service manual) Reset machine: Turn key switch off and restart. |
|--|-------------------------------------|--|
| | Emergency stop switch tripped | Activate switch by turning as indicated by arrows. |
| | Recovery tank full | Empty recovery tank |
| | Excessive foaming in recovery tank. | Empty recovery tank. |
| Vacuum motor does | | Use less or change chemical. |
| | | Use defoaming agent. |
| | Five LEDs flashing on Battery Guage | Check for motor overload. |
| | | Reset machine: Turn key switch off and restart. |
| | Debris box full | Empty and clean debris box |
| Poor sweeping | Brushes worn | Replace brushes |
| performance (Cylindrical System) | Bristles have taken a set | Rotate brushes |
| | Solution tank empty | Refill solution tank |
| Solution tank empty indicator light on | Faulty float switch | Replace float switch |
| Recovery tank full | Recovery tank. full | Empty recovery tank. |
| indicator light on | Float switch full of debris | Clean float switch. |
| | Faulty float switch | Replace float switch |

SCV 24/26 FAULT / DIAGNOSTIC CODES

Diagnostic Codes

The number of flashing bars on the battery gauge represent fault codes as indicated below:

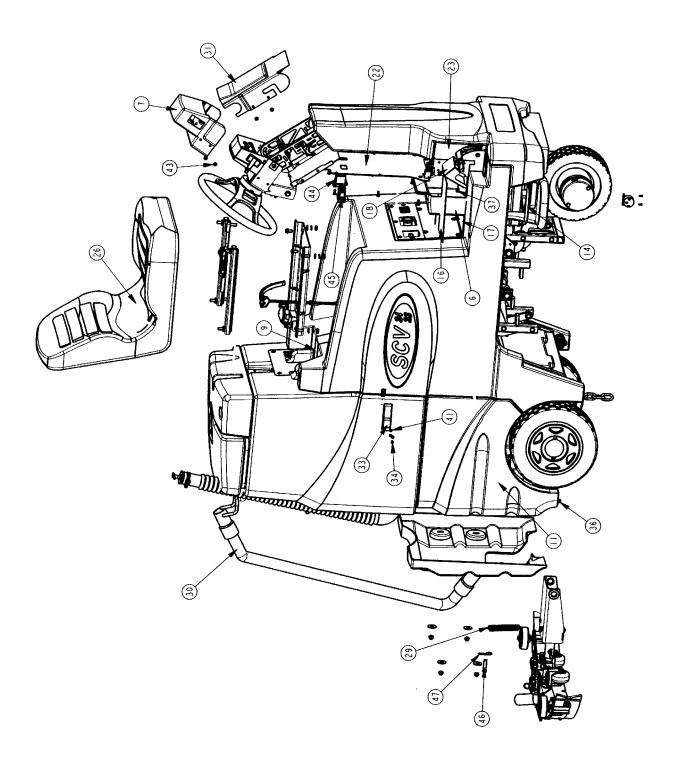
| Low battery voltage | 1 |
|---|--------|
| Check condition of battery and connections | |
| Traction Motor fault Check all connections between the motor and control system | 2 |
| Brush Motor fault | 3 |
| Check all connections between the motor and control system | |
| Freewheel Errors | 4 |
| Check condition of freewheel switch and connections | |
| Vacuum Motor fault | 5 |
| Check all connections between the motor and the control system | |
| Off-Aisle Wand Activated | 6 |
| Check Off-aisle wand switch position | |
| Throttle fault | 7 |
| May indicate incorrectly wired or faulty potentiometer | _ |
| Control system fault | 8 |
| Check all connections are secure | |
| Solenoid brake fault | 9 |
| May indicate open or short circuit solenoid brake | |
| High battery voltage | 10 |
| Check condition of battery and connections | |
| Throttle Displaced on start up | Ripple |
| Restart keyswitch-throttle was activated prior to ignition | |

Please refer to manual for detailed trouble shooting information

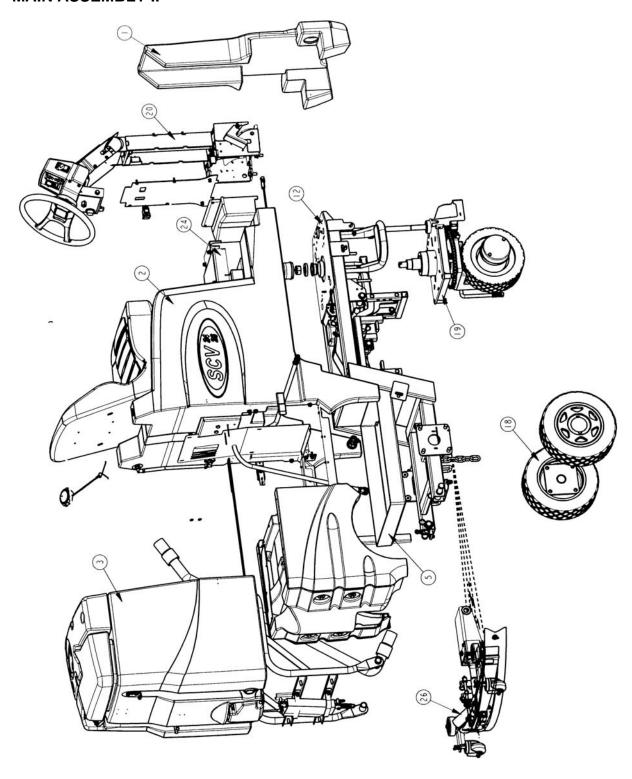
715904

EXPLODED VIEWS

MAIN ASSEMBLY I

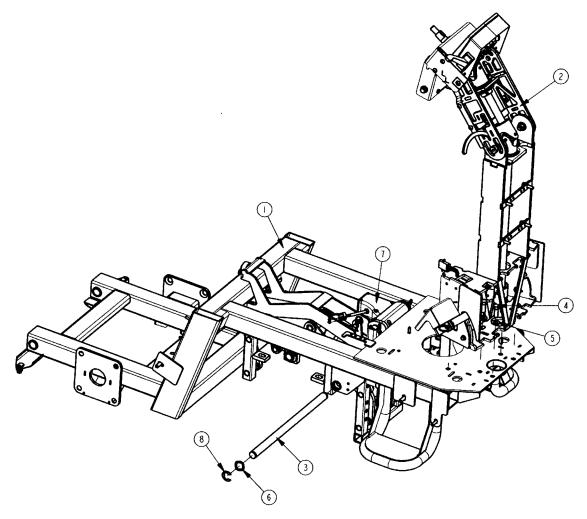


MAIN ASSEMBLY II

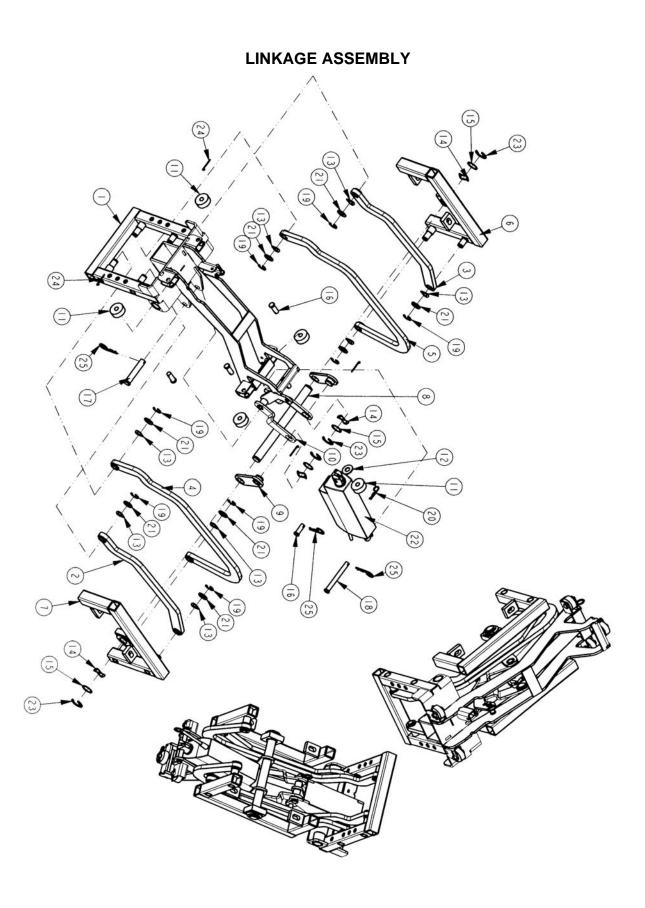


| | | E | ILL OF MATERIAL |
|------|----------|-------|---|
| ITEM | PART NO. | REO'D | DESCRIPTION |
| ı | 241001 | l | BUMPER, FRONT SCV24 |
| 2 | 241012 | ı | SOLUTION TANK ASSY W/OAW, SCV 24/26 |
| 3 | 241013 | ı | RECOVERY TANK ASSEMBLY, SCV 24/26 |
| 4 | 241023 | ı | REAR BATTERY COVER, SCV 24/26 |
| 5 | 241024 | ı | BATTERY BOX, SCV24/26 |
| 6 | 241025 | 1 | BOTTOM STEERING COLUMN COVER, SCV 24/26 |
| 7 | 241028 | 1 | MAIN STEERING COVER, SCV 24/26 |
| 8 | 241030 | ı | STEERING COVER BOTTOM, SCV 24/26 |
| 9 | 241039 | 1 | SEAT SENSOR WIRE COVER, SCV 24/26 |
| 10 | 241045 | 1 | LH BATTERY PANEL ASSY, SEV 24/26 |
| 11 | 241046 | ı | RH SIDE PANEL ASSY, SCV 24/26 |
| 12 | 241080 | | DRIVE CABLE GUIDE ASSY, SCV 24/26 |
| 13 | 241101 | 1 | MAIN FRAME WELDMENT, SCV 24/26 |
| 14 | 241117 | 2 | FRONT FOOT STEP ANTISKID, SCV 24 |
| 15 | 241137 | 1 | FOOT REST ANTISKID, SCV 24/26 LH |
| 16 | 241138 | 1 | FOOT REST ANTISKID, SCV 24/26 RH |
| 17 | 241139 | ī | FLOOR PANEL ANTISKID, SCV 24/26 |
| 18 | 241143 | 1 | ADJUSTABLE PEDAL ANTISKID, SCV 24/26 |
| 19 | 241201 | 2 | REAR WHEEL ASSY, SCV 24/26 |
| 20 | 241251 | 1 | FRONT DRIVE ASSEMBLY (10"), SCV 24/26 |
| 21 | 241301 | 1 | STEERING ASSEMBLY, SCV 24/26 |
| 22 | 241323 | 1 | REAR STEERING COLUMN COVER, SCV 24/26 |
| 23 | 241324 | | RIGHT FOOT PEDAL AREA COVER, SCV 24/26 |
| 24 | 241325 | 1 | LEFT FOOT PEDAL AREA COVER, SCV 24/26 |
| 25 | 241351 | 1 | FLOOR PANEL WELDMENT, SCV 24/26 |
| 26 | 241365 | 1 | SEAT SUB ASSEMBLY, SCV 24/26 |
| 27 | 241701 | 1 | SOUEEGEE MECH ASSY |
| 28 | 241809 | 1 | HORN - RAISE/LOWER SW. ASSY, SCV 24/26 |
| 29 | 281046 | 1 | SPRING, EXTENSION - 4.50" |
| 30 | 281078 | 1 | HOSE ASSY - SQUEEGEE, SCV 28/32 |
| 31 | 282029 | 1 | STEERING COVER, TOP |
| 32 | 320996 | ı | STATIC GROUNDING CHAIN |
| 33 | 450207 | 2 | LATCH, SOFT #C7-10 |
| 34 | 710328 | 10 | SCR-MC 8-32 X .37 ST PL - ROUND HEAD |
| 35 | 711160 | 6 | #10 X 5/8 H1-LO |
| 36 | 711202 | 2 | BLT-HH 1/4-20 X 0.50 STPL |
| 37 | 711220 | 4 | BLT-HH 1/4-20 X 2.50 |
| 38 | 711353 | 4 | NUT, ACORN 5/16-18 |
| 39 | 711506 | 4 | WSR-FLT .344 X .690 X .062 STL ZINC |
| 40 | 711507 | 4 | WSR-FLAT .37 X 1.12 X .06 |
| 41 | 711542 | 10 | WSR-HELICAL #8 |
| 42 | 712042 | 4 | BLT-WSR HH 5/16-18 X .62 |
| 43 | 712540 | 12 | SCR-MC TR HD 10-24 X .37 SS |
| 44 | 748201 | ı | SWITCH, SPDT ILLUM EA DIRECTION |
| 45 | 748202 | ı | SWITCH, SPST ILLUM |
| 46 | 831965 | 2 | 3/8 x 1.63" CLEVIS PIN |
| 47 | 833374 | 2 | HAIRPIN COTTER 3/8 |

MAINFRAME ASSEMBLY



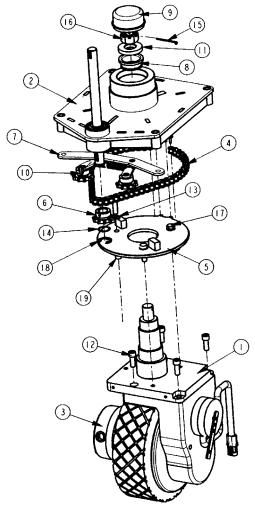
| | | E | BILL OF MATERIAL |
|------|----------|-------|---------------------------------------|
| ITEM | PART NO. | REQTD | DESCRIPTION |
| 1 | 241101 | 1 | MAIN FRAME WELDMENT, SCV 24/26 |
| 2 | 241301 | 1 | STEERING ASSEMBLY, SCV 24/26 |
| 3 | 241480 | 1 | LINKAGE ATTACHMENT SHAFT, SCV 24/26 |
| 4 | 711242 | 6 | BLT-HEX 3/8 -16X1.00 ZP |
| 5 | 711515 | 8 | WSR-FLAT .406 X .812 X .0625 |
| 6 | 711583 | 2 | WSR-WAVE .78 X 1.00 X .02 |
| 7 | 748213-1 | 1 | ACTUATOR, W/WEATHER PACK SCV SQUEEGEE |
| 8 | 809148 | 4 | RETAINING RING - "E" TYPE EXT .75 |
| | | | |



LINKAGE ASSEMBLY BOM

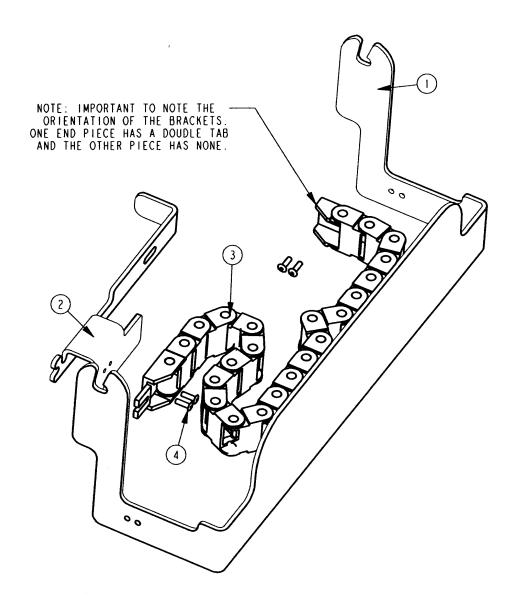
| ITEM | PART NO. | REQ'D | DESCRIPTION |
|------|----------|-------|--|
| 1 | 241452 | 1 | FIXED PIVOT WELDMENT, SCV 24/26 |
| 2 | 241462 | 1 | LEFT UPPER LINK ASSEMBLY, SCV 24/26 |
| 3 | 241464 | 1 | RIGHT UPPER LINK ASSEMBLY, SCV 24/26 |
| 4 | 241465 | 1 | LEFT LOWER LINK ASSEMBLY, SCV 24/26 |
| 5 | 241467 | 1 | RIGHT LOWER LINK ASSEMBLY, SCV 24/26 |
| 6 | 241468 | 1 | LEFT LIFT WELDMENT W/BUSHING, SCV 24/26 |
| 7 | 241470 | 1 | RIGHT LIFT WELDMENT W/BUSHING, SCV 24/26 |
| 8 | 241472 | 1 | LINK ATTACHMENT SHAFT, SCV 24/26 |
| 9 | 241476 | 2 | DECK LIFT LINK WELDMENT, SCV 24/26 |
| 10 | 241479 | 1 | DECK LIFT CRANK WELDMENT, SCV 24/26 |
| 11 | 241485 | 5 | POLYURETHANE ROLLER, SCV 24/26 |
| 12 | 711508 | 1 | WSR-FLAT .44X 10X.08) |
| 13 | 711524 | 8 | WSR-WAVE .52 X .87 X .01 |
| 14 | 711583 | 4 | WSR-WAVE .78 X 100 X .02 |
| 15 | 711588 | 4 | WSR-FLAT .75X1.00X.025 |
| 16 | 711668 | 5 | CLEVIS PIN, 3/8X1 11-141 |
| 17 | 711669 | 1 | CLEVIS PIN .5 X 2.5 |
| 18 | 711681 | 1 | PIN CLEVIS, 3/8 X 3-1/4 ZP |
| 19 | 711713 | 8 | RETAINING RING - "E" TYPE EXT .500 |
| 20 | 711808 | 1 | COTTER PIN-HAIR •13 |
| 21 | 712310 | 8 | WSR- FLAT .52 X .87 X .06 PL |
| 22 | 740822-1 | 1 | LINAK ACTUATOR, 100MM STROKE, 75 W/TERMINALS |
| 23 | 809148 | 4 | RETAINING RING - "E" TYPE EXT .75 |
| 24 | 809311 | 4 | PIN-COTTER 7/64 DIA X 1 |
| 25 | 833374 | 3 | HAIRPIN COTTER 3/8 |

FRONT DRIVE ASSEMBLY



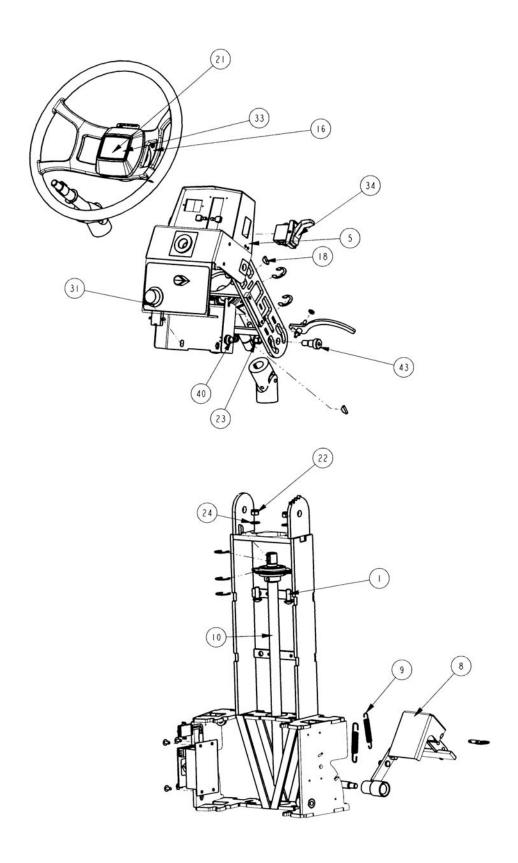
| | | | BILL OF MATERIAL |
|-----|----------|-------|--|
| TEM | PART NO. | REQTD | DESCRIPTION |
| 1 | 241252 | 1 | SPINDLE WELDMENT, SCV 24/26 |
| 2 | 241257 | 1 | FRONT DRIVE W/ BEARING ASS'Y, SCV 24/26 |
| 3 | 241265 | 1 | GEAR RESEARCH CHASSIS DRIVE 10" ASSEMBLY |
| 4 | 281054 | 1 | CHAIN, STEERING No. 40, 27.5" |
| 5 | 281254 | 1 | STEERING DISC WMT |
| 6 | 281268 | 1 | SPROCKET-RC #40, 10 TEETH, 3/4" BORE |
| 7 | 281285 | 1 | IDLER ASSY, FRONT DRIVE |
| 8 | 383077 | 1 | BEARING CONE (LM104949) |
| 9 | 383250 | 1 | GREASE CAP |
| 10 | 383277 | 1 | KEY WOODRUFF 3/16 X 3/4 |
| 11 | 383364 | 1 | THRUST WASHER |
| 12 | 710858 | 4 | SCR-SC 3/8-16 X 1.00 |
| 13 | 711546 | 3 | WSR-HELICAL 3/8 |
| 14 | 711588 | 1 | WSR-FLAT .75X1.00X.025 |
| 15 | 711807 | 1 | COTTER PIN .12 X 1.75 |
| 16 | 712113 | 1 | CASTLE NUT |
| 17 | 713043 | 3 | BLT-HH 3/8-16 X 1 1/4 #5 |
| 18 | 809148 | 1 | RETAINING RING - "E" TYPE EXT .75 |
| 19 | 809247 | 3 | STEERING PLATE SPACER |

DRIVE CABLE GUIDE ASSEMBLY

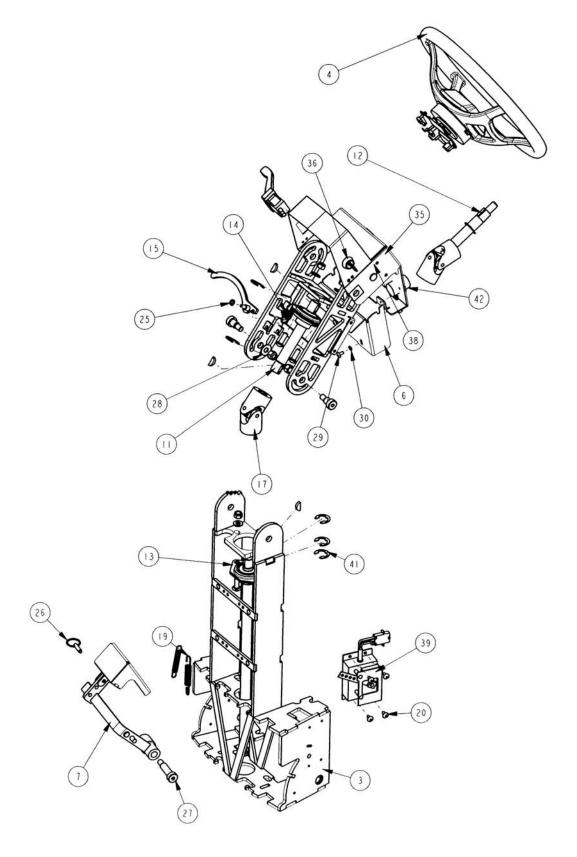


| | | E | BILL OF MATERIAL | |
|------|----------|-------|--------------------------------|--|
| ITEM | PART NO. | REQ'D | DESCRIPTION | |
| 1 | 241081 | 1 | FIXED WIRE MTG BRKT, SCV 24/26 | |
| 2 | 241082 | 1 | MOVING WIRE BRACKET, SCV 24/26 | |
| 3 | 748207 | 1 | CABLE GUIDE, SCV 24/26 | |
| 4 | 827666 | 4 | POP RIVET | |

STEERING ASSEMBLY I



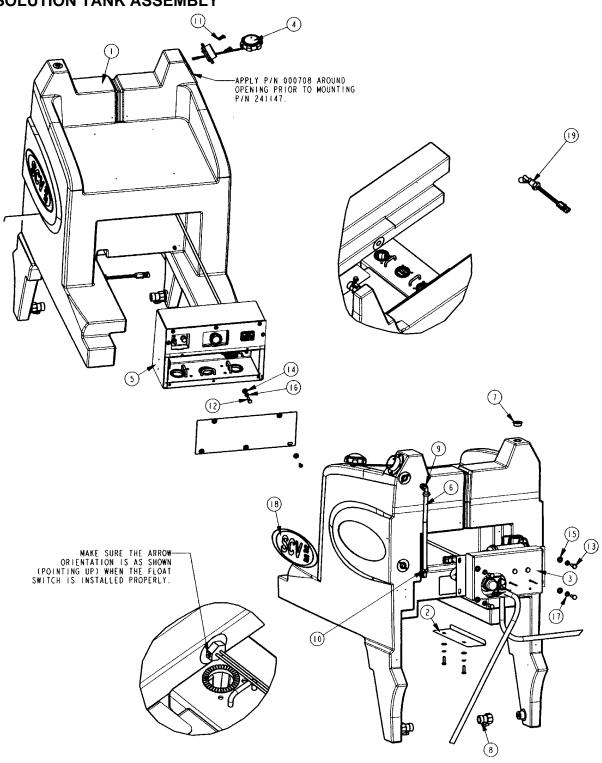
STEERING ASSEMBLY II



STEERING ASSEMBLY BOM

| ITEM | PART NO. | REO'D | DESCRIPTION |
|------|---------------------|-------|---|
| 1 | 70-516-16 | 4 | BLT-CAR 5/16-18 X 1.00 |
| 2 | 368-816 | 1 | HALF NUT NYLOC 1/2-20 |
| 3 | 241302 | 1 | STEERING WELDMENT, LOWER |
| 4 | 241311 | 1 | STEERING WHEEL ASSEMBLY, SCV 24/26 |
| 5 | 241320 | 1 | UPPER FIXED BRKT WELDMENT ASSEMBLY, SCV 24/26 |
| 6 | 241327 | 1 | CTRL COVER PLATE ASSY, SCV 24/26 |
| 7 | 241331 | 1 | ACCEL PEDAL WELDMENT, SCV 24/26 |
| 8 | 241336 | 1 | PEDAL GUIDE WELDMENT, SCV 24/26 |
| 9 | 281047 | 1 | SPRING, EXTENSION - 2.75" |
| 10 | 281328 | 1 | SHAFT,LOWER STEERING |
| 11 | 281329 | 1 | SHAFT,MIDDLE STEERING |
| 12 | 281330 | 1 | SHAFT,UPPER STEERING |
| 13 | 281392 | 2 | BEARING FLANGE ASSEMBLY 3/4 (MCH) |
| 14 | 282303 | 1 | SPRING - EXTENSION 1.375" F.L. |
| 15 | 282309 | 1 | ADJUSTMENT LEVER AND PIVOT PIN ASSY |
| 16 | 320971 | 1 | DIRECTIONAL INDICATOR ASSY |
| 17 | 383098 | 2 | UNIVERSAL JOINT |
| 18 | 383277 | 5 | KEY WOODRUFF 3/16 X 3/4 |
| 19 | 430051 | 1 | RETURN SPRING-3.00" |
| 20 | 710153 | 4 | SCR-MC 10-32X.63 TH ZINC |
| 21 | 710204 | 6 | SCR-MC 6-32 X .50 ST PL PAN HD |
| 22 | 711374 | 4 | NUT-NYLOC 5/16-18 |
| 23 | 711380 | 2 | NUT-NYLOC 3/8-16 NUT |
| 24 | 711506 | 4 | WSR-FLT .344 X .690 X .062 STL ZINC |
| 25 | 711521 | 2 | WSR-WAVE .21 X .44 X .02 |
| 26 | 711682 | 1 | PIN-QUICK RELEASE, 1/4" DIA., .500 UL |
| 27 | 712102 | 1 | BLT- SHLDR 1/2 X 1-1/2 |
| 28 | 712301 | 2 | WSR-FLAT .87 X .38 X .06 |
| 29 | 712540 | 2 | SCR-MC TR HD 10-24 X .37 SS |
| 30 | 712757 | 2 | WSR - HELICAL #10 SS |
| 31 | 715435 | 1 | DECAL, MODE SELECTOR SCV 24/26 |
| 32 | 715505 | 1 | DECAL, SOLUTION TANK INDICATOR |
| 33 | 747011-1 | 1 | BATT GAUGE ASSY TRUE CHARGE 36V |
| 34 | 7470115 | 1 | SWITCH, SPDT DIRECTION ES28322 |
| 35 | 747020 | + | KNOB-MODE SELECTOR |
| 36 | 747024 | 1 | KEYSWITCH, SPST ES2832 SOLDER |
| | 747024 | | POTENTIOMETER ASSY WATER FLOW |
| 37 | 747027 | 1 | SWITCH ASSY, MODE SELECTOR |
| 38 | 748013-1 | | POTENTIOMETER BOX ASSEMBLY |
| 39 | | 1 | |
| 40 | 748047 | 1 | HORN SWITCH, SCV 36V |
| 41 | 809148 | 6 | RETAINING RING - "E" TYPE EXT .75 |
| 42 | 809874 712099PLT | 2 | KNOB, SPEED CONTROL BLT- SHLDR 1/2 X 5/8 |

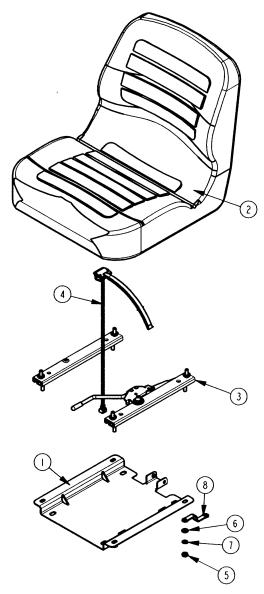
SOLUTION TANK ASSEMBLY



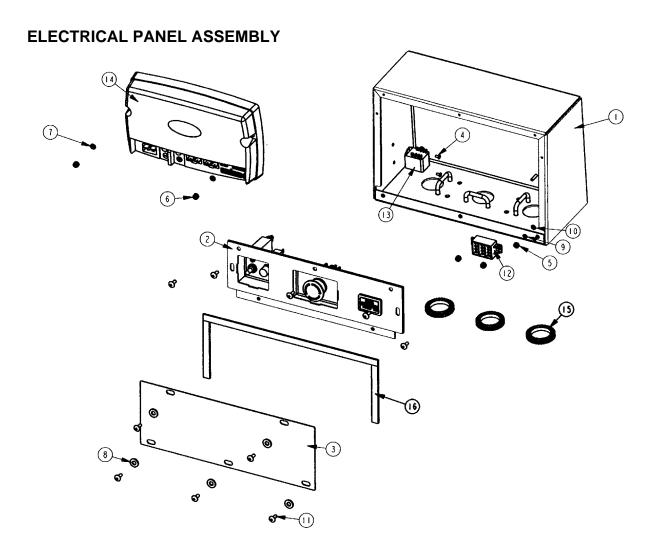
SOLUTION TANK ASSEMBLY BOM

| | | BI | LL OF MATERIAL |
|------|----------|-------|---|
| ITEM | PART NO. | REO'D | DESCRIPTION |
| 1 | 241002 | 1 | SOLUTION TANK, SCV24, ASSEMBLY, SPINWELDS |
| 2 | 241041 | 1 | SCV 24, WIRE BUNDLE, COVER PLATE |
| 3 | 241098 | 1 | PUMP SUB-ASSEMBLY w/OAW, SCV 24/26 |
| 4 | 241147 | 1 | FILL CAP ASSEMBLY, SCV 24/26 |
| 5 | 241401 | 1 | MAIN ELECT BOX ASSY, SCV 24/26 |
| 6 | 260340 | 1 | SOLUTION TANK SIGHT LEVEL TUBE, SCV 24/26 |
| 7 | 281371 | 1 | VENT PLUG |
| 8 | 281427 | 2 | #35 SHUTOFF, BLACK, ZERO PRS |
| 9 | 450040 | 2 | FITTING 90 3/8 MPT X 3/8 BARB |
| 10 | 450076 | 2 | CRIMP CLAMP SS 185R |
| 11 | 711161 | 4 | SCR-HI/LO 10 X 3/4 STL BLK ZINC |
| 12 | 711206 | 6 | BLT-HH 1/4-20 X .87 ST PL |
| 13 | 711229 | 4 | BLT-HH 5/16 -18875 |
| 14 | 711505 | 6 | WSR-FLAT 1/4 |
| 15 | 711506 | 4 | WSR-FLT .344 X .690 X .062 STL ZINC |
| 16 | 711544 | 6 | WSR-HELICAL 1/4 |
| 17 | 711545 | 4 | WSR-HELICAL 5/16 |
| 18 | 715363 | 2 | DECAL, SCV 24/26 |
| 19 | 742708-4 | 1 | FLOAT SWITCH W/WEATHER PACK |

SEAT ASSEMBLY

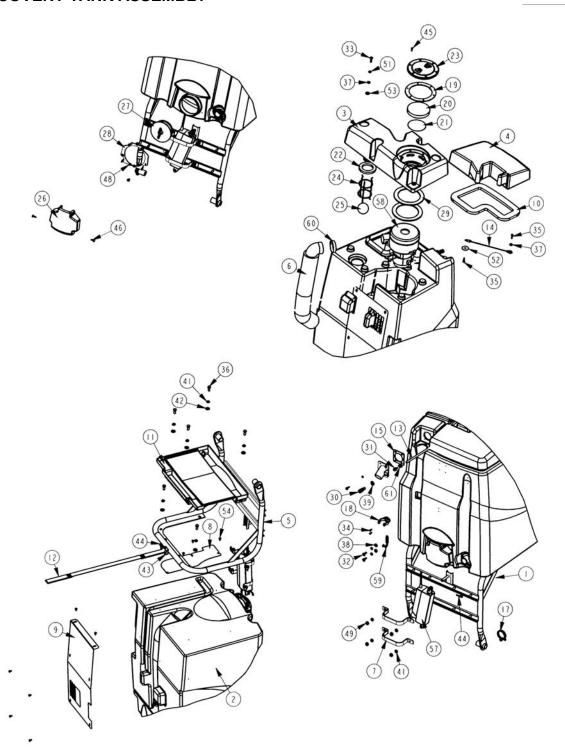


| | | E | BILL OF MATERIAL | |
|------|----------|-------|-------------------------------------|--|
| ITEM | PART NO. | REO'D | DESCRIPTION | |
| 1 | 241376 | 1 | SEAT BRACKET WMT, SCV 24/26 | |
| 2 | 281085 | 1 | ASS'Y SEAT, SUPER SUBURBAN | |
| 3 | 281086 | 1 | SLIDE ASS'Y KIT | |
| 4 | 281087-2 | 1 | SEAT SWITCH ASSEMBLY, SCV 24/26 | |
| 5 | 711319 | 4 | 5/16-18 HEX NUT | |
| 6 | 711506 | 4 | WSR-FLT .344 X .690 X .062 STL ZINC | |
| 7 | 711545 | 4 | WSR-HELICAL 5/16 | |
| 8 | 748255 | 1 | SEAT GROUND STRAP, SCV 24/26 | |



| | | E | BILL OF MATERIAL |
|------|----------|-------|----------------------------------|
| ITEM | PART NO. | REQ'D | DESCRIPTION |
| 1 | 241402 | 1 | ELECTRICAL BOX WDMNT, SCV 24/26 |
| 2 | 241404 | 1 | E-STOP PANEL ASSEMBLY, SCV 24/26 |
| 3 | 241409 | 1 | ELECTRICAL PANEL DOOR, SCV 24/26 |
| 4 | 710202 | 2 | SCR-MC 6-32 X .25 ST PL PAN HD |
| 5 | 711304 | 1 | NUT-HEX 8-32 ST PL |
| 6 | 711372 | 4 | NUT-NYLOC 8-32 STL ZINC |
| 7 | 711502 | 2 | WSR-FLT .170 x.38 x.032 STL ZINC |
| 8 | 711505 | 5 | WSR-FLAT 1/4 |
| 9 | 711542 | 1 | WSR-HELICAL#8 |
| 10 | 711552 | 1 | WSR - INTERNAL LOCK #8 |
| 11 | 712822 | 10 | SCR-MC 10-24 X .50 TH SS |
| 12 | 743032 | 1 | TERMINAL BLOCK EAGLE 3 |
| 13 | 748204 | 1 | RELAY, 36VDC DPDT |
| 14 | 748206 | 1 | CONTROLLER, TRIO PLUS SCV2426 |
| 15 | 281449 | 1.125 | SERRATED GROMMET STRIP |
| 16 | 830557 | 2.10 | DORTITE 1/2" RM IF |

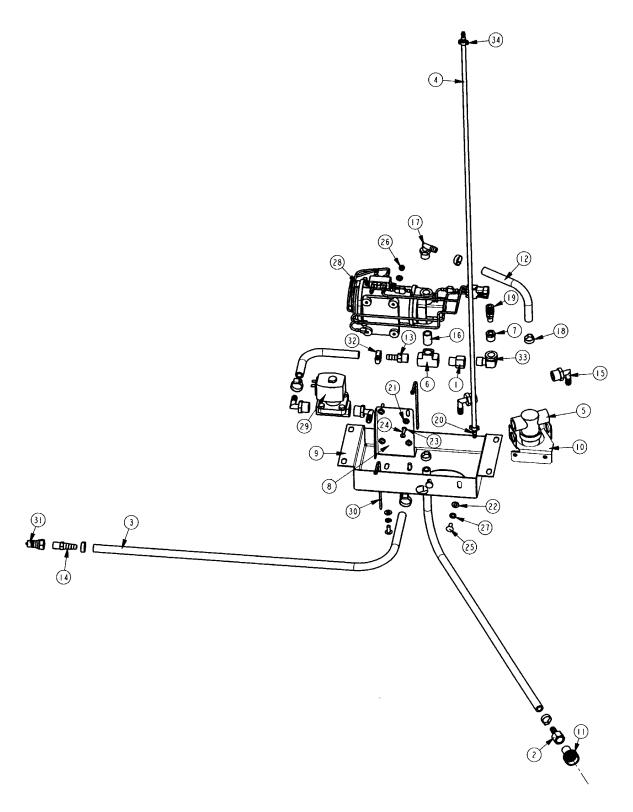
RECOVERY TANK ASSEMBLY



RECOVERY TANK BOM

| | | | L OF MAIERIAL - 241013 | | | BILL | OF MATERIAL - 241013 |
|------|----------|-------|---|------|----------|-------|--|
| ITEM | PART NO. | REO'D | DESCRIPTION | ITEM | PART NO. | REO'D | DESCRIPTION |
| | 200289 | - | DUMP HOSE ASM | æ | 710530 | 2 | SCR-MC FL HD 8-32 X .50 BRS |
| | 241003 | - | RECOVERY TANK, SCV 24/26 | 35 | 711107 | 2 | SCR-ST-A #10 X 1.00 PL |
| | 241006 | - | FIXED LID, SCV 24/26 | 36 | 711228 | 9 | BLT-HH 5/16-18 X .75 ST PL |
| | 241007 | , | LID, RECOVERY TANK REMOVABLE | 37 | 711504 | 7 | WSR-FLAT 1/4 ID SS |
| | 241037 | • | RECOVERY TANK FRAME WELDMENT, SCV 24/26 | 88 | 711505 | 2 | WSR-FLAT 1/4 |
| - | 241049 | • | VAC MOTOR MUFFLER, SCV 24/26 | 88 | 711515 | - | WSR-FLAT .406 X .812 X .0625 |
| | 241055 | 2 | ACTUATOR PROTECTION BRACKET, SCV 24/26 | 9 | 711544 | 2 | WSR-HELICAL 1/4 |
| | 241076 | | VAC WIRE COVER, SCV 24/26 | 41 | 711545 | 9 | WSR-HELICAL 5/16 |
| | 241099 | - | EXHAUST/VAC WIRE COVER, SCV 24/26 | 42 | 711575 | 9 | WSR-FLT .31x.75x06ST |
| | 241193 | - | REMOVABLE LID GASKET, SCV 24/26 | 8 | 711678 | - | CLEVIS PIN 3/8 X 2-1/4 |
| | 241420 | - | EXHAUST DIVERTER, SCV 24/26 | 4 | 711808 | 2 | COTTER PIN-HAIR #13 |
| _ | 241433 | • | RECOVERY TANK SAFETY STRAP, SCV 24/26 | 45 | 712516 | 9 | SCR-BHCS #8-32 x .62 SS |
| _ | 241435 | • | REC. TANK OAW SOLUTION FEED HOSE, SCV 24/26 | 48 | 712536 | 2 | SCR-MC 10-24 X .62 TH SS |
| _ | 241704 | - | REMOVABLE COVER LANYARD ASSY, SCV 24/26 | 47 | 712537 | 4 | 10-24 X .75 SS TRUSS HD SCR |
| - | 241803 | - | INLET WELDMENT GASKET, SCV 24/26 | 84 | 712638 | 2 | NUT, HEX 10-24 SS NYLOC |
| - | 241805 | - | REC TANK VAC INLET PIPE WELDMENT (OAW), SCV 24/28 | 64 | 712680 | 4 | NUT-HEX 5/16-18 SS |
| | 260203 | - | WIRE GRIP HOSE CLAMP | 8 | 712757 | 4 | WSR - HELICAL #10 SS |
| | 260579 | - | TOOL CLIP, 1.5" HOSE | 51 | 712758 | 9 | WSR-HELICAL 1/4 SS |
| _ | 281018 | • | GASKET, NEO 6.00 X 4.50 X .125 | 25 | 712761 | | WSR-FLAT .28 X 1.25 X .059SS |
| | 281055 | - | VAC MOTOR FILTER | ន | 712767 | 9 | FLAT WASHER .406 ID X .75 OD X . |
| | 281056 | - | VAC MOTOR INLET SCREEN | Z | 712810 | œ | SCR-MC 10-24 X .37 ST PL |
| _ | 281073 | - | INLET GASKET | 18 | 712822 | 8 | SCR-MC TR HD 10-24 X .50 SS |
| | 281423 | - | FILL CAP W/CHAIN ASSY 4.00 | 28 | 715717 | - | DECAL, OVERFILL SIGHT GAUGE, SCV 24/26 |
| | 281440 | • | FLOAT CAGE, SCV | 22 | 740821-1 | 1 | ACTUATOR ASSEMBLY, LINAK |
| _ | 281442 | - | FLOAT BALL, SCV | 88 | 742772-1 | - | VACUUM ASSEMBLY, SCV |
| | 320835 | • | ES2832 DUMP CAP COVER | 29 | 760286 | - | HOOK, WIRE FORMED |
| | 320838 | - | STOPPER PLUG ASM - 4" | 8 | 760859 | - | CLAMP, HOSE |
| - | 320839 | - | DUMP COVER SUPPORT RING | 19 | 830082 | 8 | HOSE CLAMP 3/8 |
| _ | 380035 | 2 | MOTOR GASKET | | | | |
| | 450221 | 2 | Q.C. COUPLING (FEMALE) | | | | |
| | 450223 | 2 | FITTING BRASS 1/8 FPT - 1/8 BARB | | | | |
| - | 710180 | 2 | SCR-MC TR HD 1/4-20x.75 STL ZINC | | | | |
| + | 740400 | « | SCIENCTIA SON TRIBECTI SC | | | | |

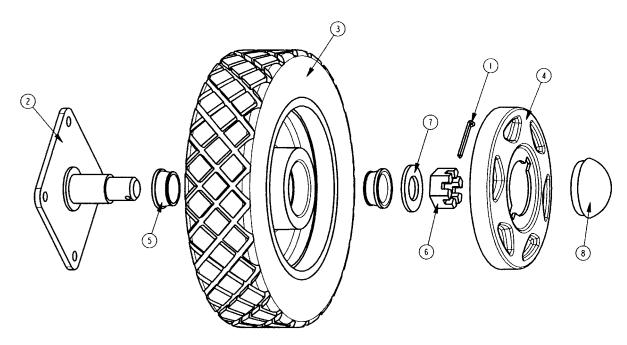
PUMP ASSEMBLY



PUMP ASSEMBLY BOM

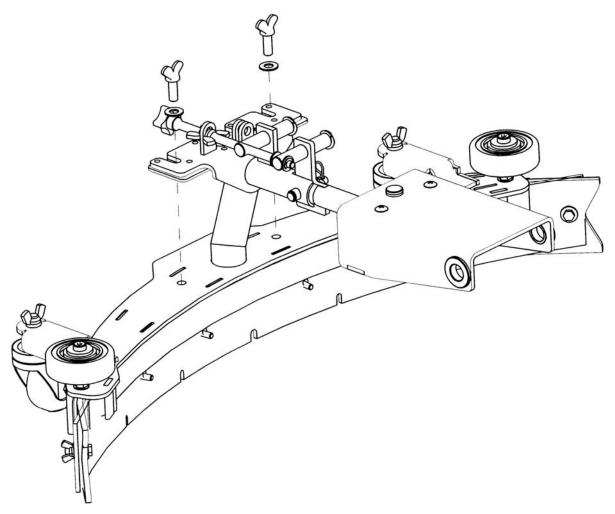
| | | 8 | ILL OF MATERIAL |
|------|-----------------------|-------|--|
| ITEM | PART NO. | REQTD | DESCRIPTION |
| 1 | 210409 | 1 | FITTING ADAPTOR 3/8MPTx38/FPT BR |
| 2 | 210410 | 1 | FITTING BRASS 3/8" FPT X 3/8" BARB |
| 3 | 241097 | 2 | HOSE 3/8 x 31 WIRE REINFORCED, SCV 24/26 |
| 4 | 241430 | 1 | OAW SOLUTION FEED HOSE, SCV 24/26 |
| 5 | 281089 | 1 | FILTER, IN-LINE |
| 6 | 281090 | 1 | FITTING BRASS 3/8" FPT TEE |
| 7 | 281091 | 1 | FITTING 3/8MPTx1/8 FPT REDUCER |
| 8 | 281368 | 1 | PUMP MOUNT PLATE |
| 9 | 281369 | 1 | PUMP SUPPORT PLATE |
| 10 | 281388 | 1 | PUMP MTG PLATE |
| 11 | 281425 | 1 | SWIVEL CONNECTOR - 3/4" GHT X 3/8" MPT |
| 12 | 320254 | 2 | HOSE 3/8 x 9.00" WIRE REINFORCED |
| 13 | 342430 | 1 | FITTING BRASS 3/8BARB 3/8 HOSE |
| 14 | 342435 | 1 | FITTING 1/4MPTx3/8HB BRASS |
| 15 | 383327 | 4 | ELBOW 1/2 MPT X 3/8 BARB |
| 16 | 383332 | 1 | FITTING BRASS 3/8 NIPPLE |
| 17 | 450040 | 1 | FITTING 90 3/8 MPT X 3/8 BARB |
| 18 | 450076 | 5 | CRIMP CLAMP SS 185R |
| 19 | 450221 | 1 | Q.C. COUPLING (FEMALE) |
| 20 | 450279 | 2 | Q.C. COUPLING NIPPLE (MALE X 1/8 BARB) |
| 21 | 711503 | 8 | WSR, FLAT#10 |
| 22 | 711504 | 4 | WSR-FLAT 1/4 ID SS |
| 23 | 711553 | 4 | WSR- INTERNAL LOCK #10 |
| 24 | 712531 | 4 | SCR-MC 10-24 X 1.00 SS |
| 25 | 712565 | 4 | SCR-MC 1/4-20X.63 SS TR HD |
| 26 | 712638 | 4 | NUT, HEX 10-24 SS NYLOC |
| 27 | 712758 | 4 | WSR-HELICAL 1/4 SS |
| 28 | 74270 9 -2 | 1 | PUMP ASSEMBLY-SCV |
| 29 | 742718-1 | 1 | SOLENOID VALVE 36V |
| 30 | 828062 | 2 | CABLE TIE05 x .14 x 8" |
| 31 | 828368 | 1 | MALE COUPLER |
| 32 | 829129 | 3 | HOSE CLAMP MICRO-SEAL |
| 33 | 830062 | 1 | FITTING 90 STREET ELBOW 3/8x3/8 |
| 34 | 830082 | 2 | HOSE CLAMP 3/8 |

REAR AXLE ASSEMBLY



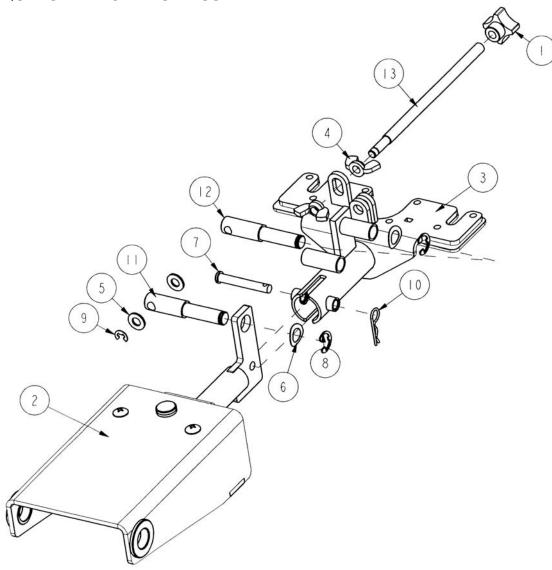
| | | E | BILL OF MATERIAL |
|------|------------|-------|-------------------------------|
| ITEM | PART NO. | REQTO | DESCRIPTION |
| 1 | 380-632-20 | 1 | 3/16 COTTER PIN |
| 2 | 241202 | 1 | REAR AXLE WELDMENT, SCV 24/26 |
| 3 | 241210 | 1 | REAR WHEEL ASSY |
| 4 | 241212 | 1 | REAR WHEEL HUB CAP, SCV 24/26 |
| 5 | 383194 | 2 | BEARING CONE |
| 6 | 711450 | 1 | NUT-SLOTTED, 1-14 UNS |
| 7 | 711514 | 1 | WSR-FT 1.0 ID X 2.0 OD |
| 8 | 383241PTD | 1 | GREASE CAP WHEEL-PAINTED |

SQUEEGEE MECHANISM ASSEMBLY I



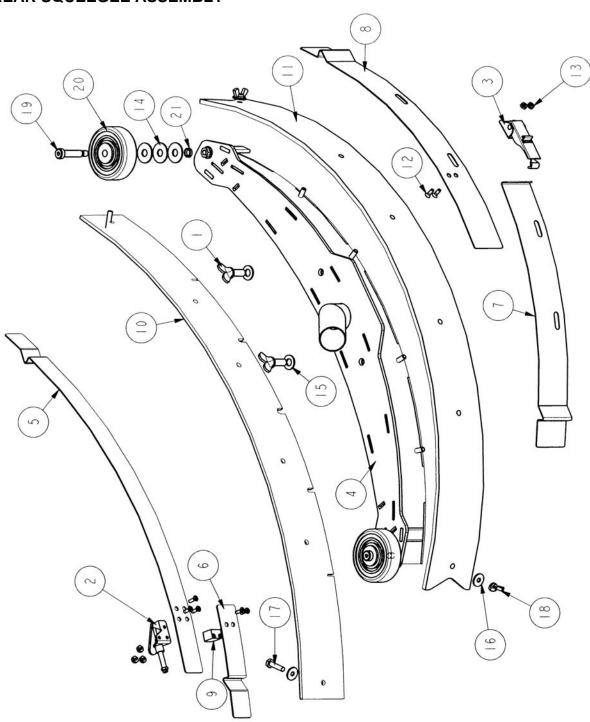
| 1877-24-59 | | E | BILL OF MATERIAL |
|------------|----------|-------|-----------------------------------|
| ITEM | PART NO. | REO'D | DESCRIPTION |
| 1 | 241730 | - 1 | REAR SQUEEGEE ASSY TOP, SCV 24/26 |
| 2 | 281701-5 | - 1 | SQUEEGEE BLADE ASSY 28" PB |

SQUEEGEE MECHANISM ASSEMBLY II



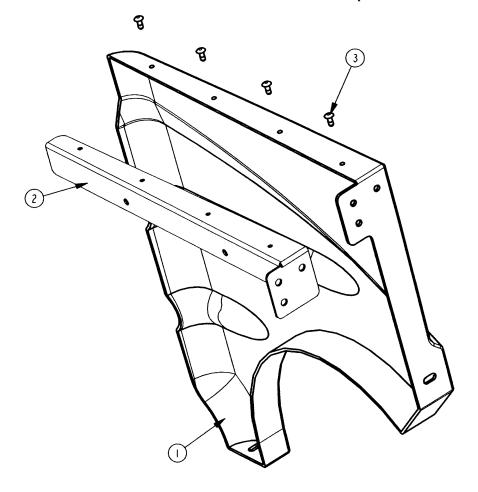
| | | BILL | DF MATERIAL - 241730 |
|------|-----------------|-------|--|
| ITEM | PART NO. | REQ'D | DESCRIPTION |
| 1 | 241004 | 1 | KNOB, 3/8-16 FOUR PRONG. |
| 2 | 241710 | 1 | SQUEEGEE LIFT MECH ASSY, SCV 24/26 |
| 3 | 241751 | 1 | REAR SQUEEGEE MOUNT PLATE WMT, SCV 24/26 |
| 4 | 711367 | 2 | NUT- WING 3/8-16 ST PL |
| 5 | 711506 | 2 | WSR-FLT .344 X .690 X .062 STL ZINC |
| 6 | 711524 | 2 | WSR-WAVE . 52 X . 87 X . 01 |
| 7 | 711671 | 1 | CLEVIS PIN .31X2.13 11-10 |
| 8 | 711713 | 2 | RETAINING RING - "E" TYPE EXT .500 |
| 9 | 711720 | 1 | .250 DIA RETAINING RING- E TYPE |
| 10 | 711808 | 1 | COTTER PIN-HAIR #13 |
| 11 | 762004 | 1 | PIN, ADJUSTING |
| 12 | 762005 | T. | NUT, ADJUSTING (RH) |
| 13 | 762006 | 1 | THREADED ROD, 3/8-16 X 7.5" LG |
| 14 | SQUEE_MECH_TUBE | 2 | SQUEEGEE MECH TUBE |

REAR SQUEEGEE ASSEMBLY



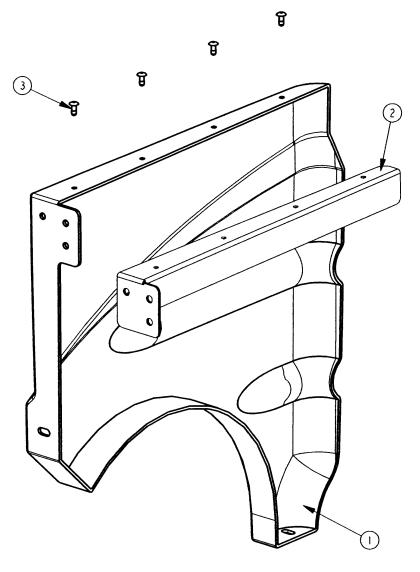
| ITEM | PART NO. | REQ'D | DESCRIPTION |
|------|-----------|--------------|-------------------------------------|
| 1 | 260267 | 2 | WING BOLT 3/8-16 X .62 ST PL |
| 2 | 281074 | 1 | SQUEEGEE TOGGLE CLAMP, 2800 |
| 3 | 281075 | 1 | SOUEEGEE LATCH, 2800 |
| 4 | 281721 | 1 | SQUEEGEE WMT ASS'Y, 2800 |
| 5 | | + | , |
| | 281732 | 1 | STRAP - FRONT CLAMP |
| 6 | 281734 | 1 | STRAP - FRONT STOP |
| 7 | 281736 | 1 | STRAP - REAR CATCH |
| 8 | 281738 | 1 | STRAP - REAR LATCH |
| 9 | 281740 | 1 | STOP BAR |
| 10 | 281763 | 1 | FRONT BLADE, SQUEEGEE GUM RUBBER |
| 11 | 281764 | 1 | REAR BLADE, SQUEEGEE GUM RUBBER |
| 12 | 281745 | 1 | SQUEEGEE MOUNT BRACKET WMT |
| 13 | 281749-1 | 1 | CASTER SUPPORT BRACKET |
| 14 | 281755 | 1 | SQUEEGEE ROD MOUNT BRACKET LEFT |
| 15 | 281756 | 1 | SQUEEGEE ROD MOUNT BRACKET RIGHT |
| 16 | 281757 | 1 | SQUEEGEE ROD MOUNT SUB-ASSEMBLY |
| 17 | 430325 | 2 | CASTER WHEEL 3/8"-16 X 1.500 |
| 18 | 710530 | 7 | SCR-MC 8-32 X .50 BR |
| 19 | 710985 | 2 | SCR-SC 3/8-16 X .62 ST PL |
| 20 | 710986 | 2 | SCR-SC 3/8-16 X .87 ST PL |
| 21 | 711026 | 5 | NUT, HEX 8-32 NYLOC SS |
| 22 | 711367 | 2 | NUT- WING 3/8-16 ST PL |
| 23 | 711375 | 2 | NUT-NYLOC 3/8-16 X 1/2 NUT |
| 24 | 711506 | 4 | WSR-FLT .344 X .690 X .062 STL ZINC |
| 25 | 711507 | 6 | WSR-FLAT .37 X 1.12 X .06 |
| 26 | 711515 | 2 | WSR-FLAT .406 X .812 X .0625 |
| 27 | 711524 | 2 | WSR-WAVE .52 X .87 X .01 |
| 28 | 711546 | 6 | WSR-HELICAL 3/8 |
| 29 | 711550 | 4 | WSR NYLON .25 ID X .75 OD |
| 30 | 711560 | 2 | SCREW-HH 1/4-20X1.00 NYLON |
| 31 | 711563 | 2 | NUT- WING 1/4-20 NYLON |
| 32 | 711668 | 1 | CLEVIS PIN, 3/8X1 11-141 |
| 33 | 711713 | 2 | RETAINING RING - "E" TYPE EXT .500 |
| 34 | 712081 | 1 | SHOULDER BLT 3/8 X .75 |
| 35 | 712091 | 2 | SHOULDER BLT 3/8 X 1,50 |
| 36 | 712310 | 2 | WSR- FLAT .52 X .87 X .06 PL |
| 37 | 712680 | 1 | NUT-HEX 5/16-18 SS |
| 38 | 712683 | 1 | NUT, HEX 5/16-18 NYLOC SS |
| - | 750689 | | |
| 39 | | 1 | ADJUSTMENT STUD |
| 40 | 808829 | 2 | WHEEL,TRUCK |
| 41 | 832015 | 2 | SPACER .38 X .50 X .140 |
| 42 | 833374 | 1 | HAIRPIN COTTER 3/8 |
| 43 | 762256PLT | 1 | NUT, ADJUSTING (LH) |

BATTERY PANEL ASSEMBLY (LEFT HAND SIDE)



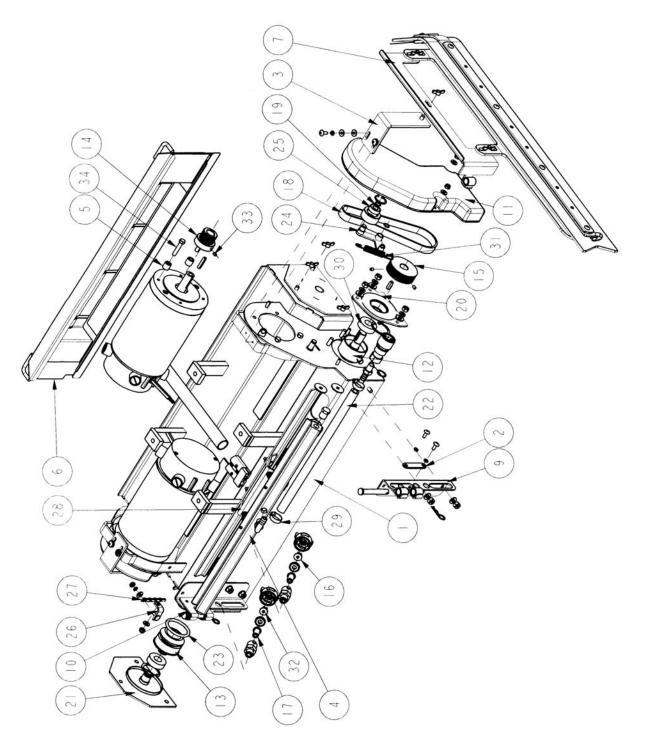
| | | E | BILL OF MATERIAL |
|------|----------|-------|---|
| ITEM | PART NO. | REQTD | DESCRIPTION |
| 1 | 241021 | 1 | LH BATTERY PANEL, SCV 24/26 |
| 2 | 241043 | 1 | LEFT SIDE PANEL SUPPORT BRKT, SCV 24/26 |
| 3 | 711923 | 4 | POP RIVET 3/16" |

BATTERY PANEL ASSEMBLY (RIGHT HAND SIDE)

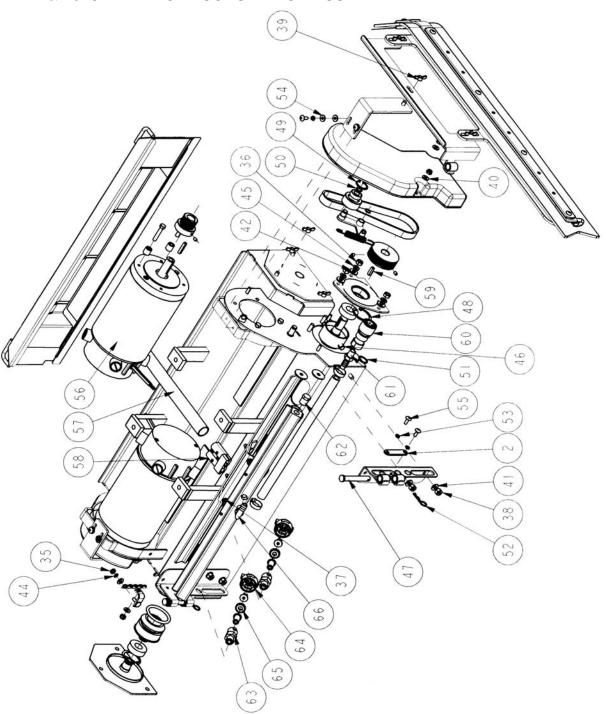


| | | Ε | BILL OF MATERIAL |
|------|----------|-------|--|
| ITEM | PART NO. | REQTD | DESCRIPTION |
| 1 | 241022 | 1 | RH BATTERY PANEL, SCV 24/26 |
| 2 | 241044 | 1 | RIGHT SIDE PANEL SUPPORT BRKT, SCV 24/26 |
| 3 | 711923 | 4 | POP RIVET 3/16" |

24" & 26"CYLINDRICAL SCRUB DECK ASSEMBLY I



24" & 26"CYLINDRICAL SCRUB DECK ASSEMBLY II



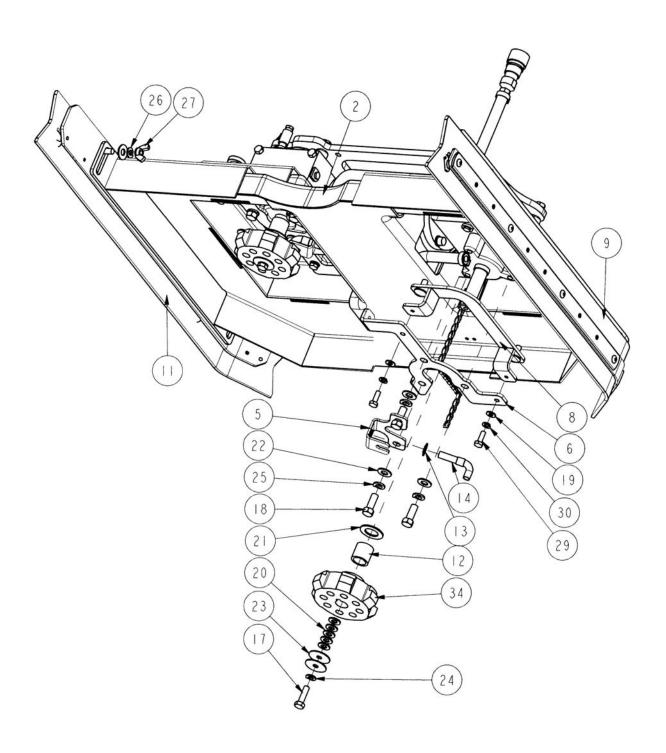
24" CYLINDRICAL SCRUB DECK BOM

| 00 QTY | BILL OF MATERIAL | PART NO. QTY DESCRIPTION | DRICAL SCRUBDECK WELDMENT, SCV 24 34 711210 8 BLT-HH 1/4-20 X 1.25 STPL | < MNTG INSERT 35 711310 1 NUT, HEX 10-32 ST PL | (PIVOT PLATE, SCV24 36 711316 6 NUT-HEX 1/4-20 ST PL | SCRUBDECK, SCV 24/26 37 711350 10 NUT NYLOC 10:32 | CYL DECK, SCV 24/26 38 711373 4 NUT-NYLOC 1/4-20 | F, CYL SCRUBDECK 24" 39 711389 8 NUT-WING 1/4-20 STL ZINC | ASSY LH, SCV 24/26 40 711503 9 W/SR, FLAT#10 | ASSY RH, SCV 24/26 41 711504 4 W/SR-FLAT 1/4 ID SS | HINGE BRKT, SCV 24/26 | FRONT HINGE 43 (711519 4 WSR- FLAT .25 X 1.01 X .06 | LINDRICAL SCRUBDECK 44 711543 1 WSR - HELICAL #10 | NDRICAL SCRUBDECK 45 711544 6 WSR-HELICAL 1/4 | 10B, CYLINDRICAL SCRUBDECK 46 711676 4 ROLL PIN, 3/8 x 3/4 | POLY V 47 711677 2 CLEVIS PIN 3/8 X 2-5/8 | 48 711701 4 RETAINING RING, INT 1.37 | | 50 711724 4 3/8" RETAINING RING, EXTERNAL |) 18" 51 711725 4 5/8" RETAINING RING, EXTERNAL | DIAL | JB WMT 53 712757 8 WSR - HELICAL #10 SS | | , 28" CYL DECK 55 712822 | JX.188 | WELDMT | | CHAIN BRKT, CYL. SCRUBDECK 59 760043 2 KEY, 3/16 X.675 L | L. SCRUBDECK | Y HEAD MTG BRKT, 28" & 32" 61 828952 1 FITTING PP 1/4" MPT X 3/8" HOSE BARB | CLAMP 1/2 HOSE SS 185R 62 829619 2 END PLUG | RADIAL 5/8" | RN SPRING-3.00" 64 833141 4 CAP | |
|--|------------------|------------------------------|---|--|---|---|--|---|--|--|------------------------|---|---|---|--|---|--------------------------------------|-----------------|---|---|---------------------|---|----------------|--------------------------|--------|----------------------|------------|--|-------------------------|---|---|-------------|---------------------------------------|------------------------|
| 241502 241502 241508 241509 241509 241901 241911 241912 241936 281036 281036 281036 281036 281036 281036 281040 281058 281058 281519 281519 281519 281557 281568 281557 281568 281567 281568 281567 281568 281567 28 | | DESCRIP | CYLINDRICAL SCRUBDECK | CYL. SCRUBDECK MNTG IN | 1 . / | SPRAY BAR, CYL SCRUBDI | | DEBRIS BOX WMT, CYL SC | SIDE SQUEEGEE ASSY LH | SIDE SQUEEGEE ASSY RH | SIDE SQUEEGEE HINGE BF | | BELT COVER, CYLINDRICAI | DRIVE HUB, CYLINDRICAL (| IDLE HUB, CYLINDRICAL SC | OFFSET PULLEY POLY V | DRIVEN PULLEY | SPRAY TIP 11005 | CHECK VALVE | J BELT (POLY V) 18" | BEARING 3/8" RADIAL | BRUSH DRIVE HUB WMT | IDLE SHAFT WMT | - | | TENSIONER ARM WELDMT | BELT IDLER | DRAG CHAIN BRKT, CYL. S | DRAG CHAIN, CYL. SCRUBI | SPRAY HEAD MTG BRKT, 2 | CRIMP CLAMP 1/2 HOSE S | | RETURN SPRING-3.00" | LINITET SPRAY TIP 6503 |
| | | QTY | _ | 2 | 2 | 57. | ω | - | - | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | - | 2 | 2 | 2 | | | - | 2 | Þ | 2 | c |
| | 0 | | 241502 | 241508 | 241509 | 241512 | 241598 | 241901 | 241911 | 241912 | 241927 | 241945 | 281023 | 281034 | 281035 | 281036 | 281037 | 281040 | 281041 | 281053 | 281058 | 281505 | 281512 | 281517 | 281519 | 281544 | 281548 | 281557 | 281558 | 281606 | 383347 | 383582 | 430051 | 750100 |

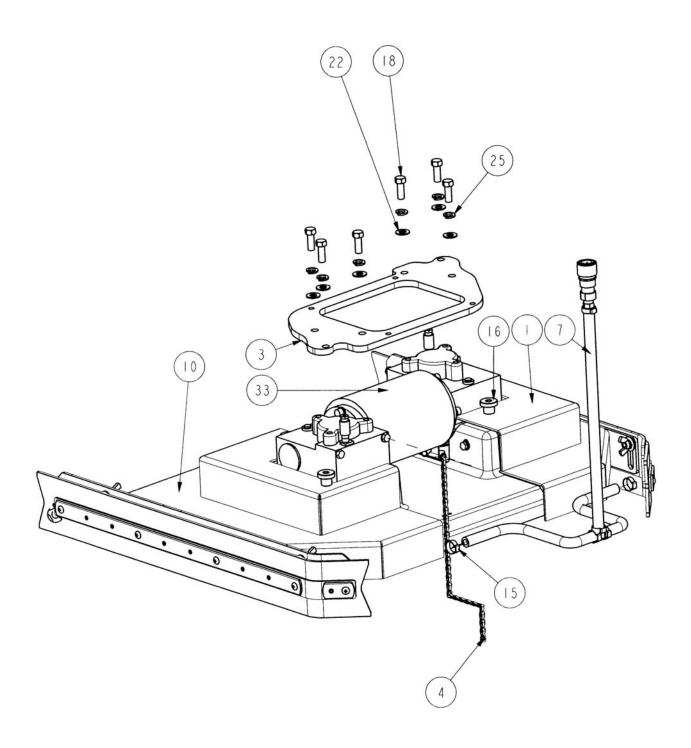
26" CYLINDRICAL SCRUB DECK BOM

| 26 | | \succeq | | | _ | ıΚ | | | = | 5 | <u> </u> | `` | _ | Ľ | _ | <u> </u> | ` | ב | رار ار | _ | | | - | _ | | - | | | | | | - | - | |
|-----------------|-------------|--|----------------------------|----------------------------------|-------------------------------------|----------------------------------|-----------------------------------|----------------------------------|----------------------------------|-------------------------------------|----------------------------|-----------------------------------|----------------------------------|---------------------------------|------------------------|--------------------------|---|-------------------------------|-------------------------------|---------------------|----------------------|----------------|-----------------------------|----------------------------|----------------------|---------------------------------------|---------------------------------|----------------------------------|--------------------------------------|------------------------------|---------------------------|---------------------|------------|---------------------------------|
| 50 | DESCRIPTION | BLT-HH 1/4-20 X 1.25 STPL | NUT, HEX 10-32 ST PL | NUT-HEX 1/4-20 ST PL | NUT NYLOC 10-32 | NUT-NYLOC 1/4-20 | NUT-WING 1/4-20 STL ZINC | WSR, FLAT#10 | WSR-FLAT 1/4 ID SS | WSR-FLAT 1/4 | WSR- FLAT .25 X 1.01 X .06 | WSR - HELICAL #10 | WSR-HELICAL 1/4 | ROLL PIN, 3/8 x 3/4 | CLEVIS PIN 3/8 X 2-5/8 | RETAINING RING, INT 1.37 | INTERNAL RETAINING RING N5000-86 875 DIA. | 3.8" RETAINING RING, EXTERNAL | 5,8" RETAINING RING, EXTERNAL | COTTER PIN-HAIR #13 | WSR - HELICAL #10 SS | WSR #10 SS | SCR-MC TR HD 10-24 X .50 SS | MOTOR 3/4 HP, 36V, 1800RPM | CABLE WRAP, 11" | CIRCUIT BRKR - SB50 GRAY HOUSING ONLY | KEY, 3/16 X .675 L | 1/4 NPT SOCKET FEMALE END COUPLI | FITTING PP 1/4" MPT X 3/8" HOSE BARB | END PLUG | BODY INLET CONNECTOR | CAP | GASKET CAP | FITTING NYLON 90 1/4MPT X 3/8HB |
| | QTY | ω | | 9 | 10 | 4 | 80 | 6 | 4 | 9 | 4 | 5 | 9 | 4 | 2 | 4 | 2 | 4 | 4 | 2 | ω | ω | 7 | 2 | - | | 2 | · | • | 2 | 4 | 4 | 4 | <u>.</u> |
| 200 XXX | PART NO. | 711210 | 711310 | 711316 | 711350 | 711373 | 711389 | 711503 | 711504 | 711505 | 711519 | 711543 | 711544 | 711676 | 711677 | 711701 | 711704 | 711724 | 711725 | 711808 | 712757 | 712764 | 712822 | 748102 | 748141 | 748215 | 760043 | 828370 | 828952 | 829619 | 833140 | 833141 | 833142 | 833325 |
| MATERIAL | ITEM | 34 | 35 | 36 | 37 | 88 | 33 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 25 | 33 | 54 | 55 | 99 | 25 | 28 | 59 | 09 | 91 | 62 | 63 | 64 | 92 | 99 |
| BILL OF MATERIA | DESCRIPTION | CYLINDRICAL SCRUBDECK WELDMENT, SCV 26 | CYL. SCRUBDECK MNTG INSERT | CYL SCRUBDECK PIVOT PLATE, SCV24 | SPRAY BAR, CYL SCRUBDECK, SCV 24/26 | MOTOR SPACER CYL DECK, SCV 24/26 | DEBRIS BOX WMT, CYL SCRUBDECK 26" | SIDE SQUEEGEE ASSY LH, SCV 24/26 | SIDE SQUEEGEE ASSY RH, SCV 24/26 | SIDE SQUEEGEE HINGE BRKT, SCV 24/26 | SIDE SQUEEGEE FRONT HINGE | BELT COVER, CYLINDRICAL SCRUBDECK | DRIVE HUB, CYLINDRICAL SCRUBDECK | IDLE HUB, CYLINDRICAL SCRUBDECK | OFFSET PULLEY POLY V | DRIVEN PULLEY | SPRAY TIP 11005 | CHECK VALVE | J BELT (POLY V) 18" | BEARING 3/8" RADIAL | BRUSH DRIVE HUB WMT | IDLE SHAFT WMT | SOL FEED HOSE, 28" CYL DECK | O-RING 1.62 X 2.00 X .188 | TENSIONER ARM WELDMT | BELT IDLER | DRAG CHAIN BRKT, CYL. SCRUBDECK | DRAG CHAIN, CYL. SCRUBDECK | SPRAY HEAD MTG BRKT, 28" & 32" | CRIMP CLAMP 1/2 HOSE SS 185R | BALL BEARING, RADIAL 5/8" | RETURN SPRING-3.00" | Ι, | SCR-SK 10-32 x .25 |
| | QTY | - | 2 | 2 | - | 80 | • | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 7 | 2 | - | 2 | 2 | 2 | τ- | - | - | 2 | 4 | 2 | 2 | 8 |
| | PART NO. | 241503 | 241508 | 241509 | 241512 | 241598 | 241961 | 241911 | 241912 | 241927 | 241945 | 281023 | 281034 | 281035 | 281036 | 281037 | 281040 | 281041 | 281053 | 281058 | 281505 | 281512 | 281517 | 281519 | 281544 | 281548 | 281557 | 281558 | 281606 | 383347 | 383582 | 430051 | 450122 | 711003 |
| | ITEM | _ | 2 | 3 | 4 | 5 | 9 | 7 | 80 | 6 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 8 | 31 | 32 | 33 |

24" & 26" DISC SCRUB DECK ASSEMBLY



24" & 26" DISC SCRUB DECK ASSEMBLY II



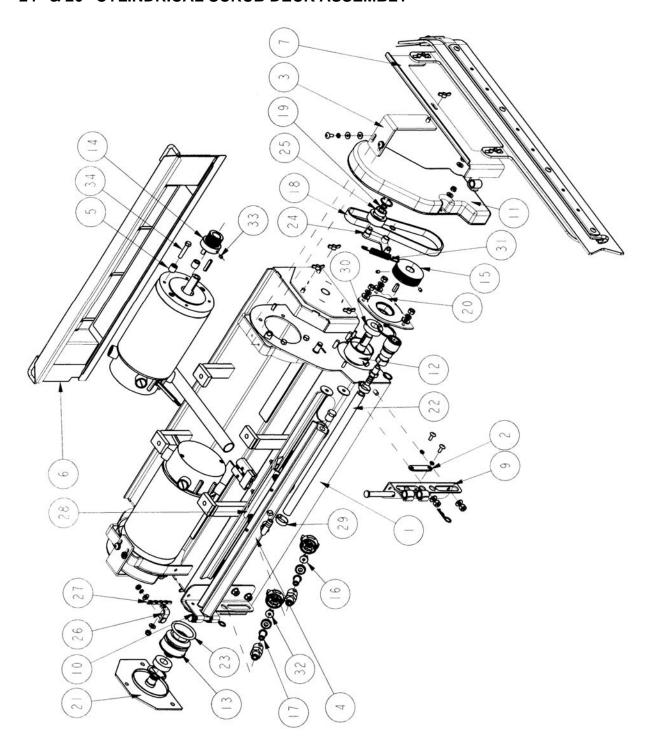
24" DISC SCRUB DECK BOM

| Bill of | Material - 24 | 41601 | |
|---------|---------------|-------|---|
| ITEM | PART NO. | QTY | DESCRIPTION |
| 1 | 241603 | 1 | RH DISK DECK COVER, SCV2426 |
| 2 | 241605 | 1 | MOTOR SHROUD 24" DECK |
| 3 | 241610 | 1 | DISK SCRUBDECK MNTG PLATE, 24" |
| 4 | 241628 | 1 | DRAG CHAIN ASSY, DISK SCRUBDECK SCV 24/26 |
| 5 | 241653 | 2 | WATER FEED BRKT, DISK, SCV24/26 |
| 6 | 241657 | 2 | MOUNTING BRACKET, MOTOR COVER |
| 7 | 241661 | 1 | SOL. FEED HOSE SUB-ASS'Y, DISK |
| 8 | 241662 | 2 | COVER MNT BRK'T, SCV 24/26 ASSY |
| 9 | 241674 | 1 | SIDE SQUEEGEE WIPE ASSY LH, SCV 24/26 |
| 10 | 241685 | 1 | LH DISK DECK COVER, SCV 2426 |
| 11 | 241687 | 1 | SIDE SQUEGEE WIPE ASSY RH, SCV 24/26 |
| 12 | 281611 | 2 | HUB-SCRUB SPACER TUBE |
| 13 | 281633 | 2 | SPEED NUT - 3/8" |
| 14 | 281634 | 2 | DISK SOLUTION FEED ASSY |
| 15 | 450076 | 2 | CRIMP CLAMP SS 185R |
| 16 | 711029 | 4 | KNOB, 5/16-18 KNURLED |
| 17 | 711231 | 2 | BLT-HH 5/16-18X1.25 ST PL |
| 18 | 711242 | 12 | BLT-HEX 3/8 -16X1.00 ZP |
| 19 | 711504 | 11 | WSR-FLAT 1/4 ID SS |
| 20 | 711506 | 10 | WSR-FLT .344 X .690 X .062 STL ZINC |
| 21 | 711512 | 2 | WSR-FLAT .75X1.37X.08 |
| 22 | 711515 | 12 | WSR-FLAT .406 X .812 X .0625 |
| 23 | 711516 | 3 | WSR- FLAT .31 X 1.25 X .05 |
| 24 | 711545 | 2 | WSR-HELICAL 5/16 |
| 25 | 711546 | 12 | WSR-HELICAL 3/8 |
| 26 | 712140 | 4 | WSR-HELICAL 5/16 SS |
| 27 | 712157 | 4 | NUT- WING 5/16-18 SS |
| 28 | 712301 | 4 | WSR-FLAT .87 X .38 X .06 |
| 29 | 712562 | 8 | BOLT-HH 1/4-20X3/4 SS |
| 30 | 712758 | 8 | WSR-HELICAL 1/4 SS |
| 31 | 740099 | 3 | CABLE TIE - SMALL |
| 32 | 748141 | 1 | CABLE WRAP, 11" |
| 33 | 748210-1 | 1 | DUAL RIGHT ANGLE MOTOR 24" ASSY |
| 34 | 3312402 | 2 | HUB-SCRUB BRUSH DRIVE |

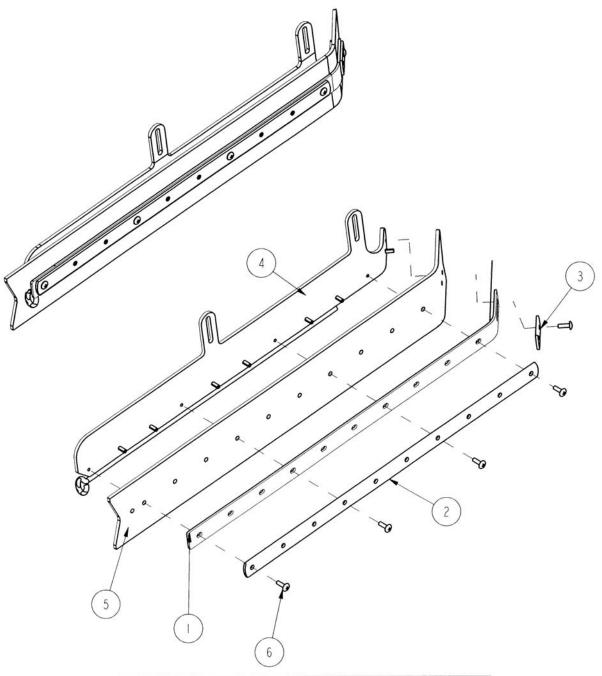
26" DISC SCRUB DECK BOM

| | | | Bill of Material - 241651 |
|------|----------|-------|---|
| ITEM | PART NO. | REQ'D | DESCRIPTION |
| 1 | 241603 | 1 | RH DISK DECK COVER, SCV2426 |
| | 241655 | 1 | MOTOR SHROUD 26" DECK |
| 3 | 241660 | 1 | DISK SCRUBDECK MNTG PLATE, 26" |
| 4 | 241628 | 1 | DRAG CHAIN ASSY, DISK SCRUBDECK SCV 24/26 |
| 5 | 241653 | 2 | WATER FEED BRKT, DISK, SCV24/26 |
| 6 | 241657 | 2 | MOUNTING BRACKET, MOTOR COVER |
| 7 | 241661 | 1 | SOL. FEED HOSE SUB-ASS'Y, DISK |
| 8 | 241662 | 2 | COVER MNT BRK'T, SCV 24/26 ASSY |
| 9 | 241674 | 1 | SIDE SQUEEGEE WIPE ASSY LH, SCV 24/26 |
| 10 | 241685 | 1 | LH DISK DECK COVER, SCV 2426 |
| 11 | 241687 | 1 | SIDE SQUEGEE WIPE ASSY RH, SCV 24/26 |
| 12 | 281611 | 2 | HUB-SCRUB SPACER TUBE |
| 13 | 281633 | 2 | SPEED NUT - 3/8" |
| 14 | 281634 | 2 | DISK SOLUTION FEED ASSY |
| 15 | 450076 | 2 | CRIMP CLAMP SS 185R |
| 16 | 711029 | 4 | KNOB, 5/16-18 KNURLED |
| 17 | 711231 | 2 | BLT-HH 5/16-18X1.25 ST PL |
| 18 | 711242 | 12 | BLT-HEX 3/8 -16X1.00 ZP |
| 19 | 711504 | 11 | WSR-FLAT 1/4 ID SS |
| 20 | 711506 | 10 | WSR-FLT .344 X .690 X .062 STL ZINC |
| 21 | 711512 | 2 | WSR-FLAT .75X1.37X.08 |
| 22 | 711515 | 12 | WSR-FLAT .406 X .812 X .0625 |
| 23 | 711516 | 3 | WSR- FLAT .31 X 1.25 X .05 |
| 24 | 711545 | 2 | WSR-HELICAL 5/16 |
| 25 | 711546 | 12 | WSR-HELICAL 3/8 |
| 26 | 712140 | 4 | WSR-HELICAL 5/16 SS |
| 27 | 712157 | 4 | NUT- WING 5/16-18 SS |
| 28 | 712301 | 4 | WSR-FLAT .87 X .38 X .06 |
| 29 | 712562 | 8 | BOLT-HH 1/4-20X3/4 SS |
| 30 | 712758 | 8 | WSR-HELICAL 1/4 SS |
| 31 | 740099 | 3 | CABLE TIE - SMALL |
| 32 | 748141 | 1 | CABLE WRAP, 11" |
| 33 | 748211-1 | 1 | DUAL RIGHT ANGLE MOTOR 26" ASSY |
| 34 | 3312402 | 2 | HUB-SCRUB BRUSH DRIVE |

24" & 26" CYLINDRICAL SCRUB DECK ASSEMBLY

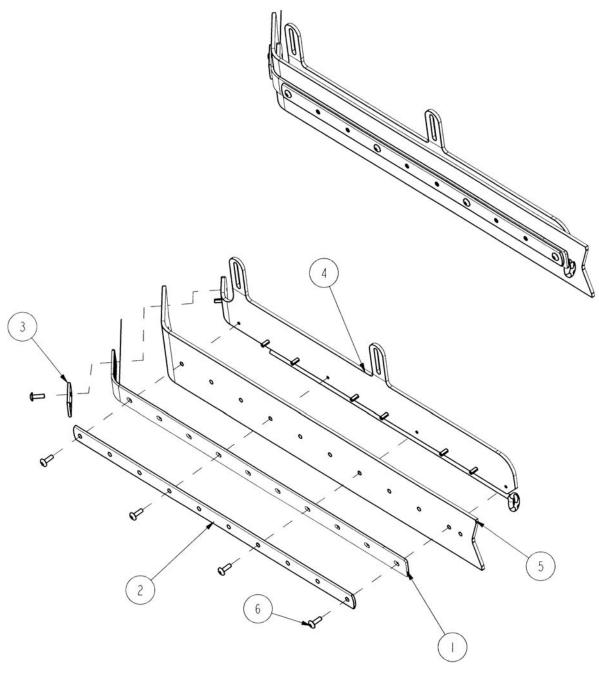


CYLINDRICAL SIDE SQUEEGEE (LEFT SIDE)



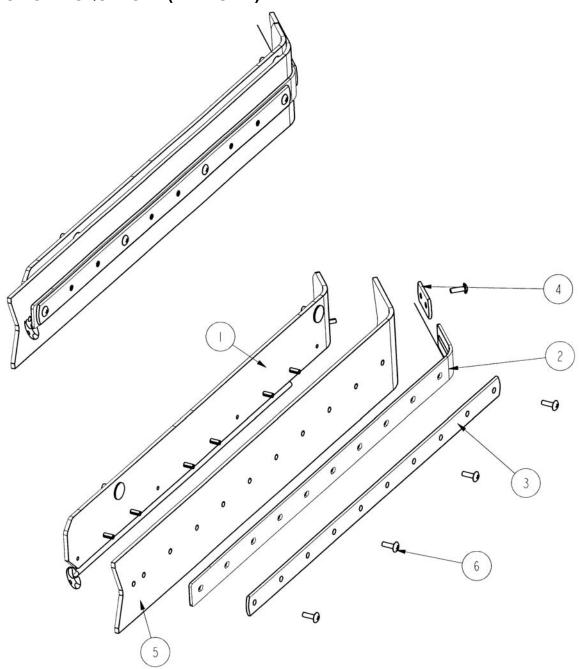
| | BILL OF MATERIAL - 241915 | | | | | | | | | | | |
|------|---------------------------|-------|--|--|--|--|--|--|--|--|--|--|
| ITEM | PART NO. | REQ'D | DESCRIPTION | | | | | | | | | |
| 1 | 241678 | 1 | BACKER BLADE, LONG SCV 24/26 | | | | | | | | | |
| 2 | 241679 | 1 | LONG RETAINER, SIDE SO SCV2426 | | | | | | | | | |
| 3 | 241680 | 1 | SHORT RETAINER, SIDE SO SCV2426 | | | | | | | | | |
| 4 | 241917 | 1 | SIDE SQUEEGEE SUB-ASSY LH, SCV 24/26 | | | | | | | | | |
| 5 | 241925 | 1 | SIDE SQUEEGEE BLADE LINATEX, SCV 24/26 | | | | | | | | | |
| 6 | 712548 | 5 | SCR-MC TR HD 10-32 X .625 SS | | | | | | | | | |
| | | | | | | | | | | | | |

CYLINDRICAL SIDE SQUEEGEE (RIGHT SIDE)



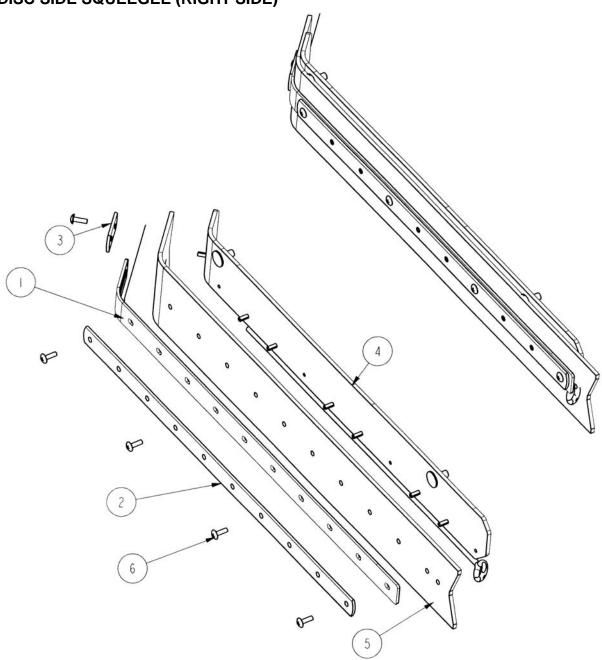
| BILL OF MATERIAL - 241916 | | | | | | | | | | |
|---------------------------|----------|-------|--|--|--|--|--|--|--|--|
| ITEM | PART NO. | REO'D | DESCRIPTION | | | | | | | |
| 1 | 241678 | 1 | BACKER BLADE, LONG SCV 24/26 | | | | | | | |
| 2 | 241679 | 1 | LONG RETAINER, SIDE SO SCV2426 | | | | | | | |
| 3 | 241680 | 1 | SHORT RETAINER, SIDE SO SCV2426 | | | | | | | |
| 4 | 241918 | 1 | SIDE SQUEEGEE SUB-ASSY RH, SCV 24/26 | | | | | | | |
| 5 | 241925 | 1 | SIDE SQUEEGEE BLADE LINATEX, SCV 24/26 | | | | | | | |
| 6 | 712548 | 5 | SCR-MC TR HD 10-32 X .625 SS | | | | | | | |
| | | | | | | | | | | |

DISK SIDE SQUEEGEE (LEFT SIDE)



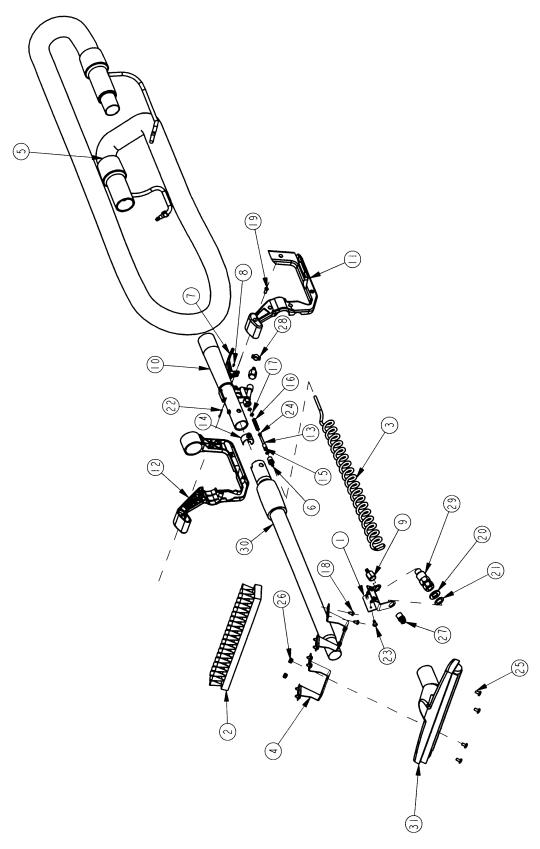
| | | BILL | OF MATERIAL - 241674 |
|------|----------|-------|--|
| ITEM | PART NO. | REQ'D | DESCRIPTION |
| 1 | 241675 | T. | DISK SQUEEGEE SUBASSY LH, SCV2426 |
| 2 | 241678 | E | BACKER BLADE, LONG SCV 24/26 |
| 3 | 241679 | 1 | LONG RETAINER, SIDE SO SCV2426 |
| 4 | 241680 | 1 | SHORT RETAINER, SIDE SO SCV2426 |
| 5 | 241925 | 1 | SIDE SQUEEGEE BLADE LINATEX, SCV 24/26 |
| 6 | 712548 | 5 | SCR-MC TR HD 10-32 X .625 SS |

DISC SIDE SQUEEGEE (RIGHT SIDE)



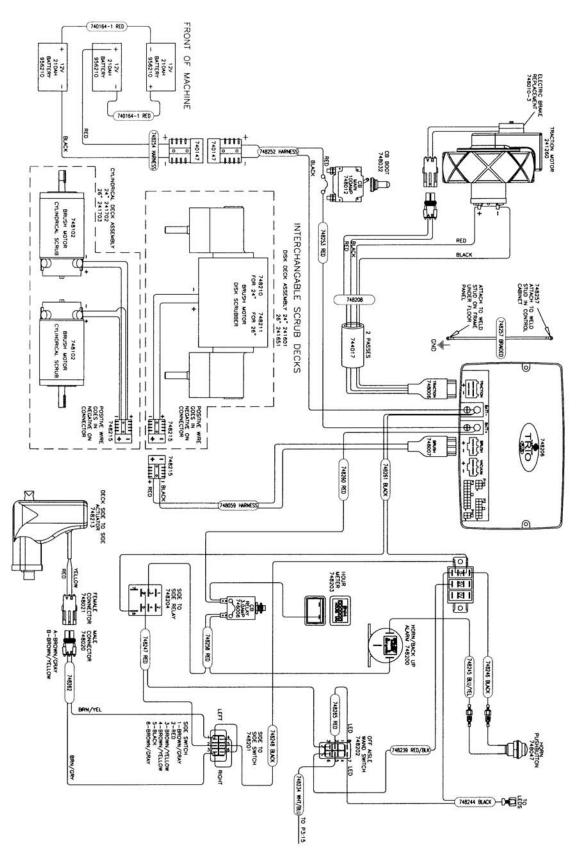
| BILL OF MATERIAL - 241687 | | | |
|---------------------------|----------|-------|--|
| ITEM | PART NO. | REQ'D | DESCRIPTION |
| 1 | 241678 | 1 | BACKER BLADE, LONG SCV 24/26 |
| 2 | 241679 | 1 | LONG RETAINER, SIDE SO SCV2426 |
| 3 | 241680 | 1 | SHORT RETAINER, SIDE SO SCV2426 |
| 4 | 241688 | 1 | DISK SQUEEGEE SUBASSY RH, SCV2426 |
| 5 | 241925 | 1 | SIDE SQUEEGEE BLADE LINATEX, SCV 24/26 |
| 6 | 712548 | 5 | SCR-MC TR HD 10-32 X .625 SS |
| | | | |

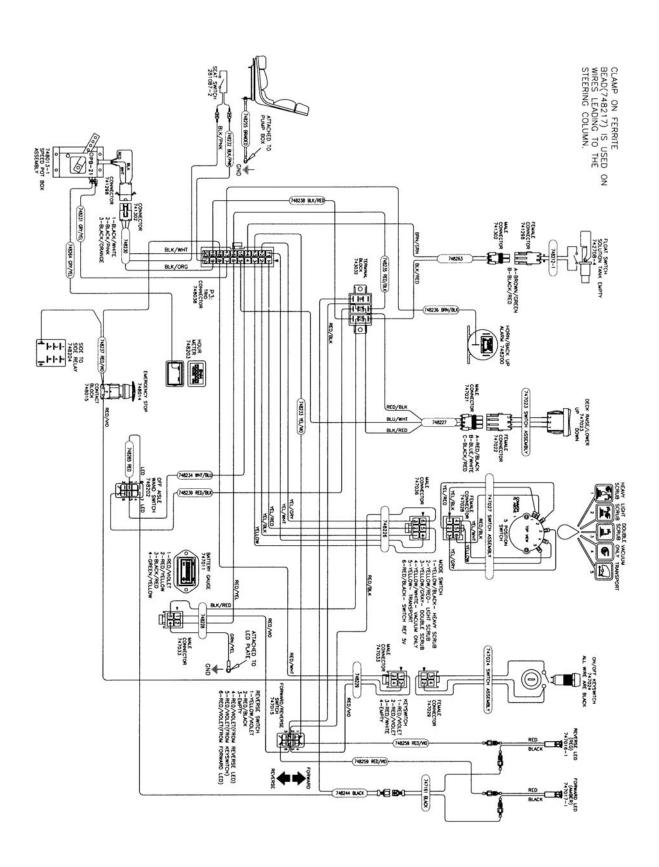
OFF AISLE WAND ASSEMBLY

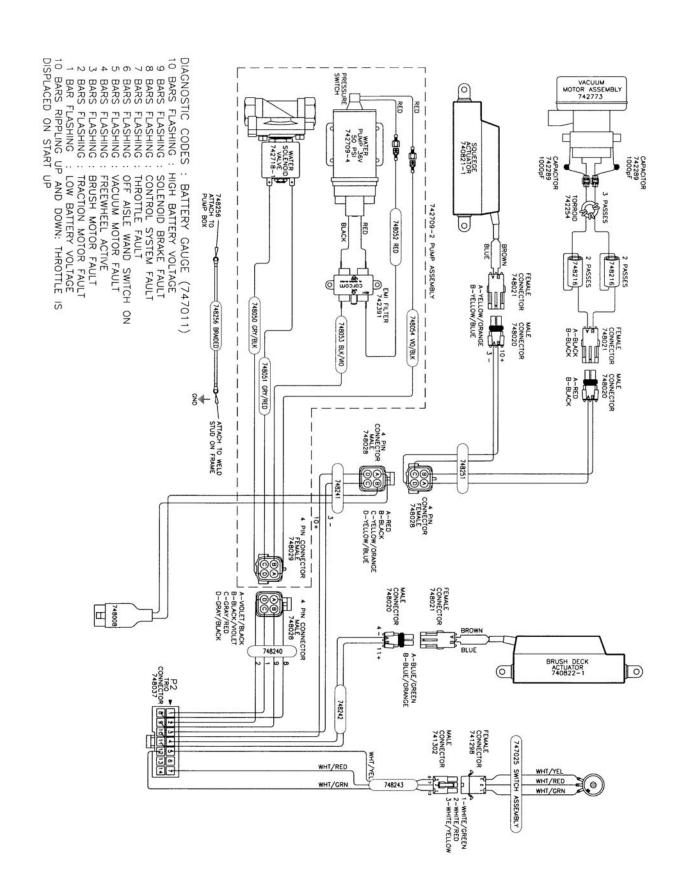


| | | BILL | OF MATERIAL 281071 |
|------|-----------|-------|----------------------------------|
| ITEM | PART NO. | REQ'D | DESCRIPTION |
| 1 | 100004 | 1 | SPRY JET BKT MC SCRB14GA |
| 2 | 281044 | 1 | BRUSH 12 X 1.75 X 1.12 |
| 3 | 281045 | 1 | HOSE, SELF-RETRACTING SOLUTION |
| 4 | 281049 | 2 | BRUSH WAND BRACKET |
| 5 | 281072 | 1 | HOSE ASSEMBLY, SPRAY/VAC, 2800 |
| 6 | 350280 | 1 | FITTING BRASS 1/8 MPT - 1/8 BARB |
| 7 | 390053 | 1 | TRIGGER SOL VALVE |
| 8 | 390063 | 2 | RD HD GRV STUD #2427 |
| 9 | 450218 | 2 | FITTING, BRASS 1/4 FPT, 1/8 BARB |
| 10 | 450256 | 1 | PICKUP TUBE |
| 11 | 450257 | 1 | TRIGGER GUARD,LEFT |
| 12 | 450258 | 1 | TRIGGER GUARD,RIGHT |
| 13 | 450261 | 1 | VALVE STEM |
| 14 | 450262 | 1 | LOCKING BUTTON |
| 15 | 450265 | 3 | O-RING, BROWN |
| 16 | 450267 | 1 | SPRING SS LC-038D-13 |
| 17 | 450301 | 1 | WASHER, NYLON |
| 18 | 711116 | 8 | SCR-ST-A 10 X .37 PL |
| 19 | 711163 | 5 | SCR-HI/LO #10-16 X 1/2 |
| 20 | 711579 | 1 | WSR-FLAT .56 X 1.00 X .100 |
| 21 | 711594 | 1 | WSR-FLAT .56 X .88 X .03 |
| 22 | 711803 | 1 | COTTER PIN-HAIR |
| 23 | 711903 | 6 | RIVET-POP 3/16" |
| 24 | 712323 | 1 | WSR-FLT .195 X .281 X .03SS |
| 25 | 712540 | 4 | SCR-MC 10-24 X .37 SS TH |
| 26 | 712638 | 4 | NUT, HEX 10-24 SS NYLOC |
| 27 | 829115 | 1 | VEEJET 1/4" |
| 28 | 830082 | 1 | HOSE CLAMP 3/8 |
| 29 | 832278 | 1 | 1 1/4 WAND END COUPLING |
| 30 | 832284 | 1 | NUT FOR 832278/832285 |
| 31 | 833384 | 1 | VALVE-BALL TYPE CHECK, 1/4" AB |
| 32 | 270162MCH | 1 | TELESCOPING WAND (MACHINED) |
| 33 | 281048MCH | 1 | SQUEEGEE NOZZLE - 12" (MACHINED) |

WIRING DIAGRAMS







KEY SWITCH

| PIN # | HARNESS COLOR | FUNCTION |
|-------|---------------|-----------------------|
| 1 | RED/VIOLET | POSITIVE TO LEDS |
| 2 | RED/VIOLET | E-STOP-TRIO KSI P3:18 |
| 3 | RED/WHITE | +V FROM TRIO P3:8 |
| 4 | EMPTY | <u>-</u> |

MODE SELECTOR SWITCH

| SWT # | PIN # | COLOR | FUNCTION |
|-------|---------------------------|--------------|---------------|
| 1 | 1 | YELLOW/BLACK | HEAVY SCRUB |
| 2 | 2 | YELLOW/RED | LIGHT SCRUB |
| 3 | 3 | YELLOW/GRAY | DOUBLE SCRUB |
| 4 | 4 YELLOW/WHITE VACUUM ONL | | VACUUM ONLY |
| 5 | 5 | YELLOW | TRANSPORT |
| С | 6 RED/BLACK SWITCH REF ! | | SWITCH REF 5V |

BATTERY GAUGE

| PIN # | COLOR | FUNCTION |
|-------|--------------|----------------------|
| 1 | RED/VIOLET | SWITCHED 36VDC:P3-18 |
| 2 | RED/YELLOW | SIGNAL: P3-6 |
| 3 | BLACK/RED | SIGNAL REF OV |
| 4 | GREEN/YELLOW | ESD DISCHARGE |

REVERSE SWITCH

| PIN # | COLOR | FUNCTION | |
|-------|---------------|----------------------|--|
| 1 | YELLOW/VIOLET | REVERSE | |
| 2 | RED/BLACK | HIGH SWITCH REF 5VDC | |
| 3 | EMPTY | - | |
| 4 | RED/VIOLET | REVERSE LED | |
| 5 | RED/VIOLET | KEY SWITCH ON | |
| 6 | RED/VIOLET | FORWARD LED | |

SIDE TO SIDE SWITCH

| PIN # | COLOR | FUNCTION |
|--------------|--------------|---------------|
| 1 | BROWN/GRAY | SIDE ACTUATOR |
| 2 | RED | BATTERY 36VDC |
| 3 | BROWN/YELLOW | SIDE ACTUATOR |
| 4 | BROWN/YELLOW | SIDE ACTUATOR |
| 5 | BLACK | BATTERY OVDC |
| 6 BROWN/GRAY | | SIDE ACTUATOR |

P2: TRIO CONNECTOR

| PIN # | COLOR | FUNCTION |
|-------|---------------|----------------------------------|
| 1 | GRAY/RED | WATER SOLENOID VALVE |
| 2 | GRAY/BLACK | WATER SOLENOID VALVE |
| 3 | YELLOW/ORANGE | SQUEEGE ACTUATOR |
| 4 | BLUE/GREEN | BRUSH ACTUATOR |
| 5 | WHITE/YELLOW | WATER FLOW POTENTIOMETER (SLOW) |
| 6 | - | _ |
| 7 | WHITE/RED | WATER FLOW POTENTIOMETER (WIPER) |
| 8 | VIOLET/BLACK | WATER PUMP |
| 9 | BLACK/VIOLET | WATER PUMP |
| 10 | YELLOW/BLUE | SQUEEGE ACTUATOR |
| 11 | BLUE/ORANGE | BRUSH ACTUATOR |
| 12 | WHITE/GREEN | WATER FLOW POTENTIOMETER (FAST) |
| 13 | _ | - |
| 14 | | - |

P3: TRIO CONNECTOR

| PIN # | COLOR | FUNCTION | |
|-------|---------------|----------------------------------|--|
| | YELLOW/RED | 5 MODE SWITCH: LIGHT SCRUB | |
| 2 | YELLOW/BLACK | 5 MODE SWITCH: HEAVY SCRUB | |
| 3 | YELLOW | 5 MODE SWITCH: TRANSPORT | |
| 4 | - | _ | |
| 5 | BLUE/WHITE | DECK RAISE/LOWER SWITCH | |
| 6 | RED/YELLOW | BATTERY GAUGE SIGNAL | |
| 7 | GRAY/YELLOW | HOUR METER | |
| 8 | RED/WHITE | ON/OFF REF (B+) | |
| 9 | BLACK/ORANGE | SPEED POTENTIOMETER (SLOW) | |
| 10 | BLACK/PINK | SPEED POT./SEAT SAFETY SWITCH | |
| 11 | YELLOW/WHITE | 5 MODE SWITCH: VACUUM ONLY | |
| 12 | YELLOW/GRAY | 5 MODE SWITCH: DOUBLE SCRUB | |
| 13 | YELLOW/VIOLET | REVERSE SWITCH | |
| 14 | BROWN/GREEN | SOLUTION TANK EMPTY FLOAT SWITCH | |
| 15 | WHITE/BLUE | OFF AISLE WAND | |
| 16 | RED/BLACK | HIGH SWITCH REF 5VDC | |
| 17 | BROWN/BLACK | BACK UP ALARM | |
| 18 | RED/VIOLET | ON/OFF INPUT-KEY SWITCH | |
| 19 | BLACK/RED | LOW SWITCH REF OVDC | |
| 20 | BLACK/WHITE | SPEED POTENTIOMETER (FAST) | |

MISCELLANEOUS

| COLOR | FUNCTION |
|-------------|----------------------|
| RED | BATTERY 36VDC |
| BLACK | BATTERY OVDC |
| RED/BLACK | HIGH SWITCH REF 5VDC |
| BLACK/RED | LOW SWITCH REF OV |
| BLUE/YELLOW | HORN |

LIMITED WARRANTY

Minuteman International, Inc. warrants to the original purchaser/user that this product is free from defects in workmanship and materials under normal use and service for a period of three years from date of purchase. In addition, Minuteman International, Inc. will, at its option, honor labor warranty claims for the first 36 months from date of sale, provided such claims are submitted through and approved by factory authorized repair stations. Minuteman International, Inc. will, at its option, repair or replace without charge, except for transportation costs, parts that fail under normal use and service when operated and maintained in accordance with the applicable operation and instruction manuals.

This warranty does not apply to normal wear, or to items whose life is dependent on their use and care, such as belts, cords, switches, hoses, rubber parts, electrical motor components or adjustments. Parts not manufactured by Minuteman International, Inc. such as engines, batteries, battery chargers, hydraulic pumps, and tires are covered by and subject to the warranties and/or guarantees of their manufacturers. Please contact Minuteman International, Inc. for procedures in warranty claims against these manufacturers.

Special warning to purchaser -- Use of replacement filters and/or pre-filters not manufactured by Minuteman International, Inc. or its designated licensees, will void all warranties expressed or implied.

A potential health hazard exists without exact original equipment replacement.

All warranted items become the sole property of Minuteman International, Inc. or its original manufacturer, whichever the case may be.

Minuteman International, Inc. disclaims any implied warranty, including the warranty of merchantability and the warranty of fitness for a particular purpose. Minuteman International, Inc. assumes no responsibility for any special, incidental or consequential damages.

This limited warranty is applicable only in the U.S.A. and Canada, and is extended only to the original user/purchaser of this product. Customers outside the U.S.A. and Canada should contact their local distributor for export warranty policies. Minuteman International, Inc. is not responsible for costs or repairs performed by persons other than those specifically authorized by Minuteman International, Inc. This warranty does not apply to damage from transportation, alterations by unauthorized persons, misuse or abuse of the equipment, use of non-compatible chemicals, or damage to property, or loss of income due to malfunctions of the product.

If a difficulty develops with this machine, you should contact the dealer from whom it was purchased.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion or limitation of special, incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you.



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