

SCV 28/32 RIDER SCRUBBER

OPERATION ■ SERVICE ■ PARTS ■ CARE





This manual is furnished with each new *MINUTEMAN SCV*TM 28/32. 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

SCV[™] 28/32 Model

Model No. SCV28CQP / SCV28DQP / SCV32CQP / SCV32DQP

SCV28C / SCV28D / SCV32C / SCV32D / SCV28CPLUS

SCV28DPLUS / SCV32CPLUS / SCV32DPLUS

Current 60 Amps

Voltage, Batteries 36 volts, 6-6volt

Battery Capacity 275 Ah (Optional 395 Ah batteries available)

Sound Level

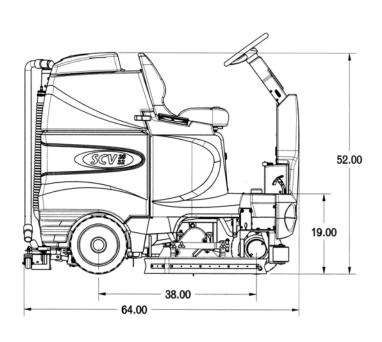
Dimensions (LxWxH) 64" x 31" x 54" (163cm x 78.74cm x 137cm)

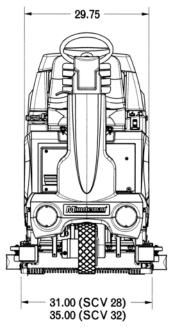
1,243 lbs (564 kg) with batteries **Gross Weight** 847 lbs (384 kg) without batteries

16% (10°)

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

Wheel to Floor Pressure 64 PSI Front, 69 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 SCV 28/32, SC280000CE, SC280001CE, SC320000CE, SC320001CE, SCV28C, SCV28D, SCV32C, SCV32D. SCV28CPLUS, SCV28DPLUS, SCV32CPLUS, SCV32DPLUS to which this declaration relates corresponds to the relevant requirements of the EC Directives 72/23/EEC, 98/37/EC and 89/336/EEC. The following standards were used to determine compliance with the Directives: EN 292, EN 953, EN 55022, EN 60335-1 and EN 60335-2-72.

SOUND		VIBRATION
75 dB 72 dB		$.4 \text{ m/s}^2$
Operator At 3m		At Operators Handle

Tests were conducted on 7/15/02 with calibrated sound and vibration equipment under the conditions noted below:

General Condition:

Indoors

Wind:

0 km/hr

Temperature:

 $23^{\circ}C$

Humidity:

70%

Barometric Pressure: 29.1

Jeff Pollack, Standards Engineer

Date

Form: EC055 REV C

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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, with the key switch in the off position. 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 and turn off machine.

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 (6) 6-volt batteries.

BATTERIES

The recommended batteries are rated 275Ah (Minuteman P.N. 956740). We do not recommend mixing Amp Hour capacities. Any alternate battery sets can be used if they are of equal physical size and capacity. See "Battery Compartment" for service and installation.

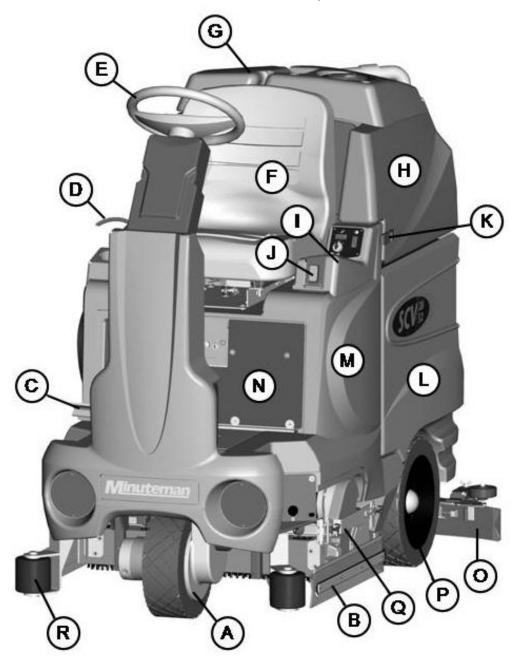
OPERATOR RESPONSIBILITY

Read this manual carefully before operating this machine.

The operator is responsible for 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 scheduled maintenance is required as stated in the *MAINTENANCE* section of this manual.

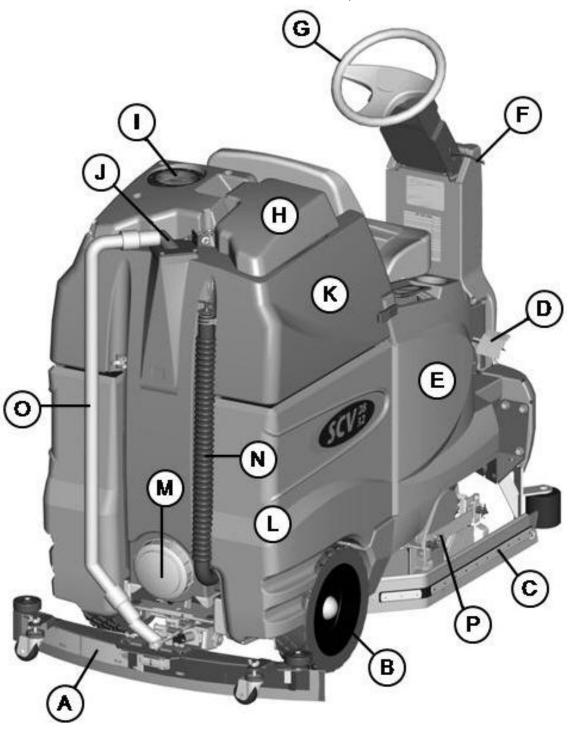
Before starting, familiarize yourself with the machine and its controls (see "Machine Overview, Front", "Machine Overview, Rear", "Operator Compartment", & "Control Console" diagrams).

MACHINE OVERVIEW, FRONT



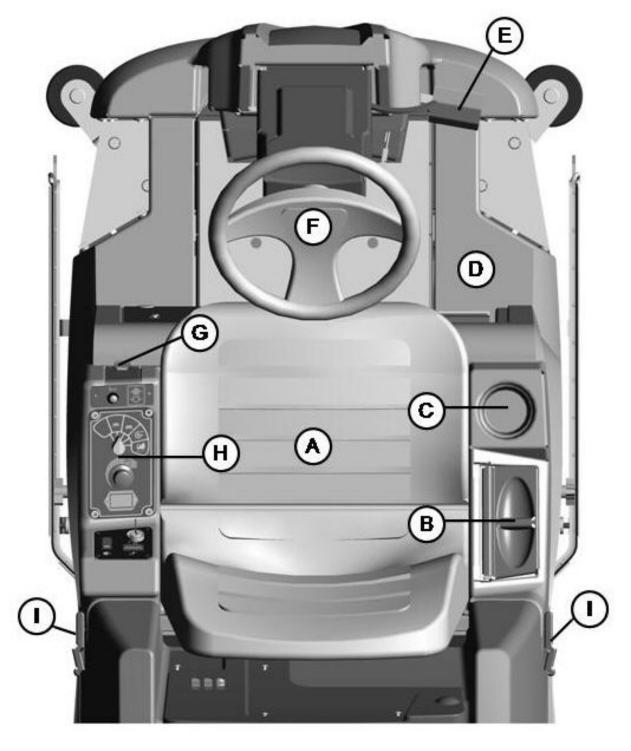
Α	Front Drive Wheel	J	Directional Switch
В	Side Squeegee	K	Safety Latch
С	Accelerator Pedal	L	Battery Compartment
D	Steering Tilt Lever	M	Solution Tank
E	Steering Wheel	N	Electrical Panel
F	Operator's Seat	0	Rear Squeegee
G	Recovery Tank Lid	Р	Real Wheel
Н	Recovery Tank	Q	Scrubdeck
I	Control Console	R	Roller Bumper

MACHINE OVERVIEW, REAR



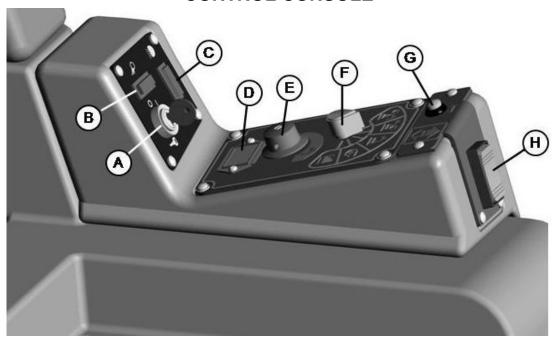
Α	Rear Squeegee	I	Vacuum Filter Access
В	Rear Wheel	J	Vac Inlet Assembly
С	Side Squeegee	K	Recovery Tank
D	Accelerator Pedal	L	Battery Compartment
Е	Solution Tank	M	Clean-Out Cap
F	Steering Tilt Lever	N	Recovery Drain Hose
G	Steering Wheel	0	Recovery Hose
Н	Recovery Tank Lid	Р	Scrubdeck

OPERATOR COMPARTMENT



Α	Operator's Seat	F	Steering Wheel
В	Solution Tank Lid	G	Directional Switch
С	Cup Holder	Н	Control Panel
D	Solution Tank	I	Safety Latch
E	Accelerator Pedal		_

CONTROL CONSOLE



For operator ergonomics, the control console houses all the primary function controls in a central area. The key switch and optional headlight and off-aisle wand switches are clustered in the back portion of the console. The directional switch (forward/reverse) is located at the front of the console for easy fingertip operation. The horn button, function selectors, and battery gauge are located in the central part of the console.

KEY SWITCH (A) – Controls the machine's power (ON/OFF) with a key for safety. All operational settings are retained even when the power is turned off and on. This also serves as a reset switch when errors or faults occur.

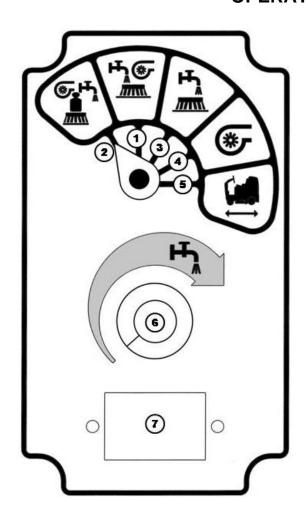
OFF AISLE WAND SWITCH (OPTIONAL) (B) – ON/OFF control for the water supply to the wand and vacuum motor for the optional Off-Aisle Wand.

HEADLIGHT SWITCH (OPTIONAL) (C) – ON/OFF control for the optional headlights. **BATTERY GAUGE (D)** - Displays the level of charge remaining in the machine's batteries. The gauge consists of 10 LEDs. (3 Green, 4 Amber, 3 Red) If the battery life is low, the battery gauge bar icon will be flashing to inform the operator that the machine is almost out of power. Once this signal is displayed, all functions will shut off, including transport mode. The operator must then *turn the key switch OFF and then ON* to reset the machine. The machine will then have only a few minutes left of reserve power to briefly use *Vacuum Only mode* to pick up any remaining solution on the floor and *Transport mode* to return to the charging station. This gauge will also display a fault code if the system has an error. This code is represented by a specific number of flashing LEDs. *See Fault/Diagnostic Codes for specific code information*.

SOLUTION CONTROL KNOB (E) – Adjusts the amount of solution being dispensed to the floor while in one of the scrub modes. Turn the knob clockwise to increase the amount of solution being dispensed. The amount of solution applied is variable to a maximum of 1 GPM. **MODE SELECTOR KNOB (F)** – This knob is used to select the desired operation mode of the machine. See *Operation Modes for information about each mode*.

HORN BUTTON (G) – Depressing this button will activate the machine's horn. **DIRECTIONAL SWITCH (H)** – Flipping this switch to the down position will set the machine to move forward. Flipping it to the up position sets the machine to move in reverse.

OPERATION MODES



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 pedal, 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 pedal*, 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 KNOB

This control will adjust the amount of solution that is being dispersed to the floor while in one of the scrub modes. Adjust the control clockwise to increase the amount of solution being dispersed. The amount of solution applied is variable to a maximum of 1 GPM.

7. BATTERY GAUGE

This gauge displays the level of charge remaining in the machine's batteries. The gauge consists of 10 LEDs. (3 Green, 4 Amber, 3 Red) If the battery life is low, the battery gauge bar icon will be flashing to inform the operator that the machine is almost out of power. Once this signal is displayed, all functions will shut off, including transport mode. The operator must then *turn the key switch OFF and then ON* to reset the machine. The machine will then have only a few minutes left of reserve power to briefly use *Vacuum Only mode* to pick up any remaining solution on the floor and *Transport mode* to return to the charging station. This gauge will also display a fault code if the system has an error. This code is represented by a specific number of flashing LEDs. *See Fault/Diagnostic Codes for specific code information*.

FAULT / DIAGNOSTIC CODES

When an error or fault occurs within the machine, a fault code will appear on the battery gauge represented by a specific number of flashing LEDs. The figure below shows a listing of the different codes.

FAULT / DIAGNOSTIC CODES DECAL

The number of flashing bars on the battery gauge represent fault codes a	s indicated below.
Low battery voltage Check condition of battery and connections	1
Traction Motor fault Check all connections between the motor and control system	2
Brush Motor fault Check all connections between the motor and control system	3
Actuator Fault Reset Key	4
Vacuum Motor fault Check all connections between the motor and the control system	5
Off-Aisle Wand Activated Check Off-aisle wand switch position	6
Throttle fault May indicate incorrectly wired or faulty potentiometer	7
Control system fault Check all connections are secure	8
Solution Tank Empty Tank Needs To Be Filled	9
High battery voltage Check condition of battery and connections	10
Throttle Displaced on start up Restart keyswitch-throttle was activated prior to ignition	Ripple

Please refer to manual for detailed trouble shooting information

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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 operator that the solution tank needs to be filled.



LOW BATTERY INDICATOR

If the battery life is low, the battery gauge bar icon will be flashing to inform the operator that the machine is almost out of power. Once this signal is displayed, all functions will shut off, including transport mode. The operator must then *turn the key switch OFF and then ON* to reset the machine. The machine will then have only a few minutes left of reserve power to briefly use *Vacuum Only mode* to pick up any remaining solution on the floor and *Transport mode* to return to the charging station.

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.

OPERATION OF CONTROLS

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). Pulling on the *tilt-steering lever* and positioning the steering column in an upright position provides the operator with more room when climbing up and down the machine.



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 the pedal depressed 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 is interlocked with the seat switch, making machine propulsion not possible without the operator sitting on the seat. The accelerator pedal is also linked to the machine's *dynamic braking system*. During operation, when the accelerator pedal is released, the dynamic braking system will automatically halt the movement of the machine without need for an additional brake pedal.

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

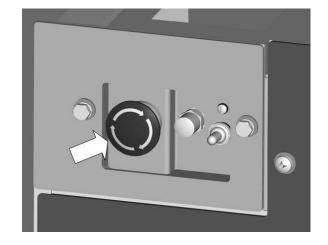
Located on the lower front of the control console, this switch controls the direction in which the SCV will move when the *accelerator pedal* is activated. Flipping this switch to the down position will set the machine to move forward. Flipping it to the up position sets the machine to move in reverse.

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.

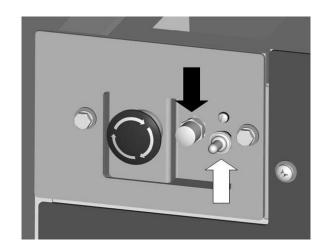
EMERGENCY DISCONNECT BUTTON

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 arrows 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

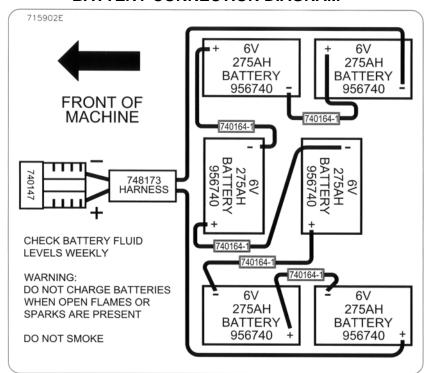
The circuit breakers are located next to the emergency disconnect button. The 6-amp breaker (indicated by black arrow) protects all auxiliary circuits on the machine. The 100-amp breaker (indicated by white arrow) protects the main system circuit (TRIO controller). Each main component is individually protected with an internal breaker builtin the controller. (See fault code table) and can be reset by turning the key switch off a few seconds and then on again. The 100 amp circuit breaker can also be used as a main power disconnect, this should be used only in case of emergency. When tripped the breaker removes power from the main controller and all auxiliary power circuits.



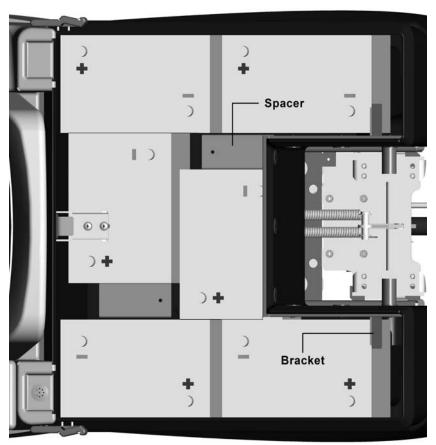
BATTERY COMPARTMENT

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 six, 6-volt batteries connected in series. Connect the batteries according to the battery connection diagram (see diagram). The recommended batteries are 275Ah (Minuteman P.N. 956740). The two batteries positioned in the center are offset and held in position by two steel spacers. These spacers keep the batteries from sliding inside the battery compartment during machine use and prevent undesired stresses in the battery cables. Be sure to replace these spacers whenever reinstalling batteries.

BATTERY CONNECTION DIAGRAM



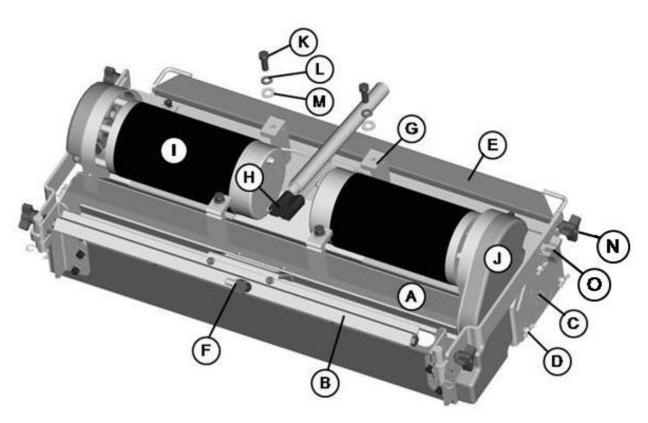
BATTERIES INSTALLED WITH SPACERS



SCRUB DECKS

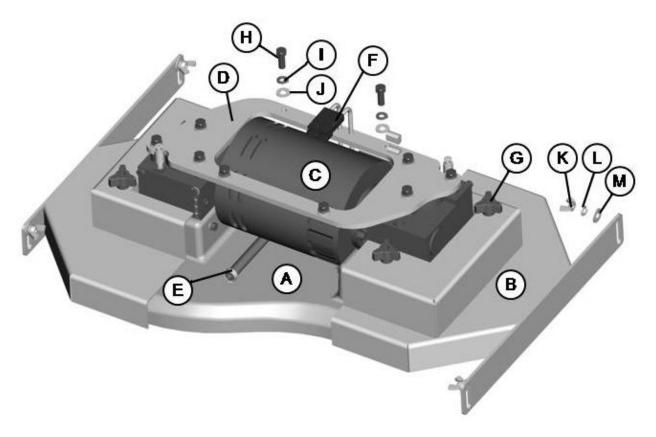
Minuteman offers two deck types (*Cylindrical and Disc*) to fit your specific needs. The SCV design is very dynamic wherein the decks are interchangeable in a matter of minutes whenever necessary (removal of four bolts, one hose, and one electrical connection). The *cylindrical brush deck* has five built-in 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 two center hubs and the solution is 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 by easily removing the side deck covers and releasing the quick release clamp. 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.

CYLINDRICAL SCRUB DECK



A	Main Housing		Brush Motor (2)
В	Spray Bar w/ Sprayjets	J	Pulley Cover (2)
С	Access Door (2)	K	Bolt (4)
D	Access Door Wingnut (6)	L	Helical Lock Washer (4)
E	Debris Box	M	Flat Washer (4)
F	Water Supply Hose Connection	N	Black Squeegee Adj. Knob (4)
G	Mounting Bracket	0	Yellow Brush Access Knob (2)
Н	Power Connector		

DISK SCRUB DECK



Α	Center Deck Cover	Н	Bolt (4)
В	Side Deck Cover (2)	I	Helical Lock Washer (4)
С	Brush Motor	J	Flat Washer (4)
D	Mounting Plate	K	Wing Nut for Squeegee Adj. (4)
Е	Solution Feed Hose	L	Helical Lock Washer for Squeegee Adj. (4)
F	Power Connector	M	Flat Washer for Squeegee Adj. (4)
G	Three Sided Knob (4)		

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

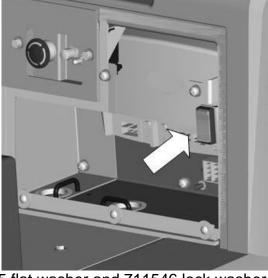
- 1. Park the machine on a flat or level surface.
- 2. Turn the key switch to the ON position and select the transport mode with mode selector knob.
- 3. Slide the scrub deck assembly underneath the machine (follow instructions as described above)
- 4. Position the scrub deck to align the mounting brackets 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. (see figure)
- 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.

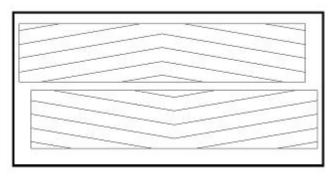
8. For cylindrical scrub deck only:

orientation.)

- a. Remove the Yellow 3 sided knob on the side squeegee assembly and swing out the side squeegee to reveal the access door.
- b. Remove the two access doors (one on each end) by removing the three wing nuts on each door. c. Install the brushes by sliding them through the access opening. (see figure for correct

Manual Override Switch, located behind electrical panel.





Cylindrical scrub brushes must be installed with the chevron pattern pointing away from each other for best water and debris pick up.

- d. Align the notches on the brush with the drive pins on the hub.
- e. Push the brush all the way in until it bottoms out.
- f. Insert the access door hub into the other end of the brush.
- g. Reinstall the wing nuts and yellow 3 sided knobs and tighten.

IMPORTANT NOTE WHEN INTERCHANGING SCRUB DECKS

As previously mentioned, the scrub deck brush pressure is computer controlled. However, when interchanging the two types of decks, an additional step must be taken to ensure that the controller correctly compensates the pressure for the type of deck that is currently installed.

Inside the main electrical box, beneath the seat there is an Orange/Violet jumper wire (shown disconnected in Figure 1) that may or may not be connected to the terminal block, depending on the type of scrub deck that was originally ordered with the machine. When using the Disk Scrub Deck, the wire is disconnected. When using the Cylindrical Scrub Deck, the wire is connected to the terminal block located in the electrical box, beneath the TRIO Controller. This terminal block is divided into five sections, each separated by a divider. The four leftmost sections contain one column each of spade terminals. The section on the right contains two columns of spade terminals (this section also contains four Red/Black wires, not shown in Figure 2 for clarity). The Orange/Violet wire must be connected to a spade terminal in the section with two columns when using the Cylindrical Scrub Deck ONLY!

When switching from the Cylindrical Scrub Deck to the Disk Scrub Deck, **be sure to** *disconnect* the Orange/Violet wire. When switching from the Disk Scrub Deck to the Cylindrical Scrub Deck, *connect* the Orange/Violet wire to any available spade terminal in the section that contains two columns (shown in Figure 2) and the Red/Black wires.



Figure 1
Jumper wire disconnected

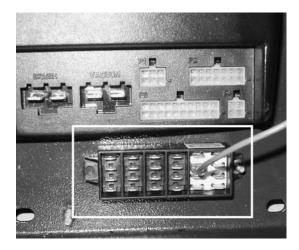


Figure 2
Jumper wire connected to terminal block

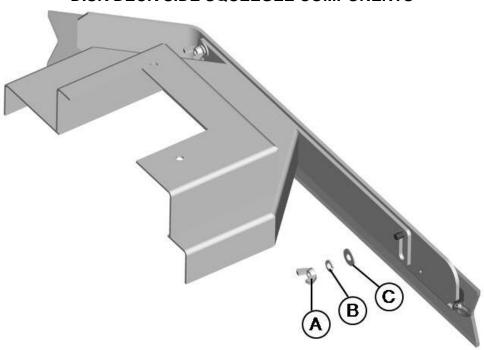
SIDE SQUEEGEES

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.

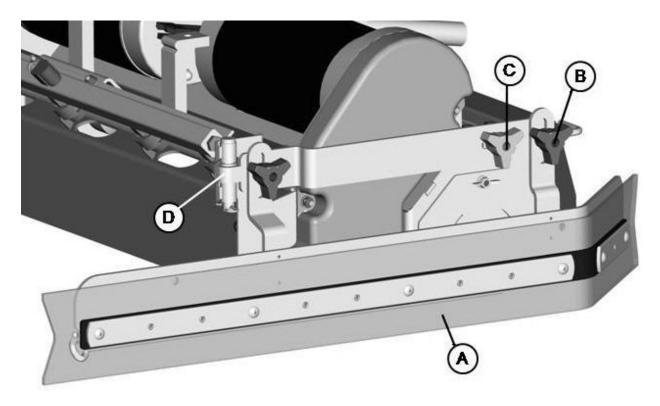
To adjust the side squeegees, simply loosen the mounting hardware (Two wing nuts for Disk Scrub Deck, two black three-sided knobs for Cylindrical Scrub Deck). Lower the scrub deck by switching to a scrubbing mode and when the brushes start up, turn off the key switch. At this point the side squeegees 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 degree angle along its whole length. Tighten the wing nuts (item A). 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.

DISK DECK SIDE SQUEEGEE COMPONENTS



- A Wing Nut for Squeegee Adjustment (2)
- B Helical Lock Washer for Squeegee Adjustment (2)
- C | Flat Washer for Squeegee Adjustment (2)

CYLINDRICAL DECK SIDE SQUEEGEE COMPONENTS



- A | Side Squeegee Blade
- B Black Squeegee Adjustment Knob (2)
- C Yellow Brush Access Knob
- D | Side Squeegee Hinge

BRUSH CHANGES ON THE CYLINDRICAL DECK

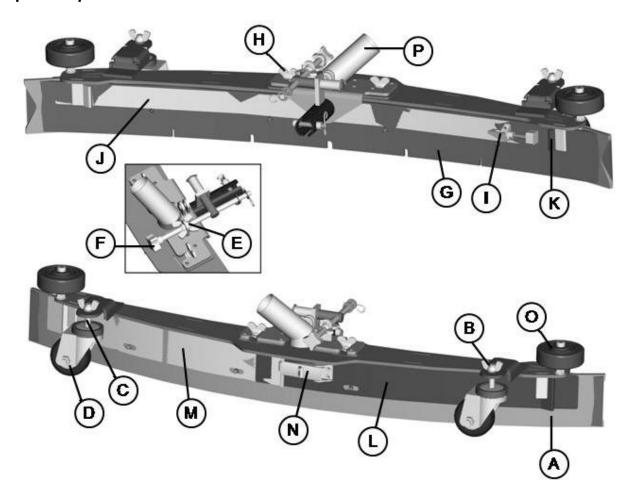
In order to change the brushes on the cylindrical deck the side squeegee must be moved in order to access the brush doors. The cylindrical deck was designed so one can change the brushes without having to realign the side squeegees. This is accomplished by removing the yellow three-sided knob (Item C) and swinging the squeegee along the hinge bracket (Item D) located at the front of the deck, gaining access to the brushes. Once completed inserting new brushes, replace the brush doors and swing the squeegee back into place, tightening down the knob (Item C).

In order to remove or adjust the alignment of the side squeegees on the cylindrical deck, remove the black three-sided knobs (Item B) and follow the instructions on the previous page.

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 optimum performance for different floors and conditions.



REAR SQUEEGEE COMPONENTS

Α	Rear Squeegee Blade	I	Toggle Clamp	
В	Wing Nut (2)	J Front Strap (Long)		
С	Caster Stem (2)	K Front Strap (Short)		
D	Swivel Caster (2)	L Rear Strap (Latch Side)		
E	Wing Jam Nut (2)	M Rear Strap (Catch Side)		
F	Turnbuckle Adjustment Knob	N Latch		
G	Front Squeegee Blade	O Guide Wheel (2)		
Н	Wing Bolt (2)	Р	Recovery Hose Intake	

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 **A**) 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 B) in order to adjust the caster height. If the squeegee blade is deflecting too much, the casters (item D) need to be lowered to control the down pressure. Lower the caster by turning the exposed threaded stem (item C) 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 jam nuts (item **E**) that lock the pitch angle. Turning the knob (item **F**) 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 **G**) is needed, detach the rear squeegee assembly by loosening the two wing bolts (item **H**). Unlock the toggle clamp (item **I**) on the front squeegee to release the front long strap (item **J**) and slide the front short strap (item **K**). 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 **N**) and removing the two rear straps (items **L** & **M**) by sliding them off the assembly. You can then flip the blade over in order to use a new edge for better wiping action.

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 *Operation Modes 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 Operation Modes section* of this manual for a complete description of the functions.
- 6. When **Reverse** is selected on the Directional Switch, the Rear Squeegee is automatically 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 ¾ speed and overlap each pass 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.

- 8. 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*.
- 9. 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.
- 10. In cases where the floors are extremely soiled and dirty, the **Double Scrub** mode may be needed. As described in the *Operation Modes 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.
- 11. 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.

- 12. 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).
- 13. 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.
- 14. 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.
- 15. Refill the solution tank and continue scrubbing until the job is done or when the machine runs out of power.
- 16. The **battery gauge LEDs** 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 will then have only a few minutes left of reserve power to briefly use *Vacuum Only mode* to pick up any remaining solution on the floor and *Transport mode* to return to the charging 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:

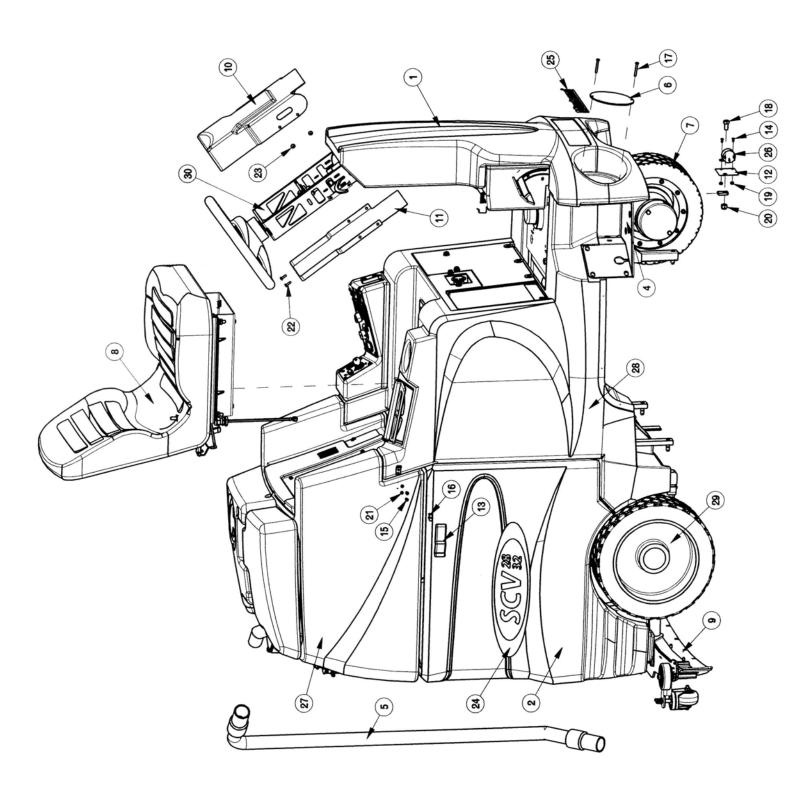
- Rear squeegee general pivot points
- Side squeegee general pivot points
- Scrub deck linkages
- Drive wheel assembly seals.

GENERAL MACHINE TROUBLESHOOTING

Problem	Possible Cause	Remedy
Poor water pick-up	Worn or torn squeegee blades	Rotate or replace blades
	Squeegee out of adjustment	Adjust so blades touch floor evenly across entire width
	Recovery tank full	Empty recovery tank
	Recovery tank drain hose leak	Secure drain hose cap or 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 recovery tank disconnected to squeegee or damaged	Reconnect or replace squeegee hose
	Worn brushes	Rotate or replace brushes
Poor scrubbing performance	Wrong brush or cleaning chemical	Consult Minuteman
	Debris caught on scrub brushes	Remove debris
	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
Machine does not run	Emergency stop switch tripped	Activate switch by turning as indicated by arrows.
	Operator seat safety switch	Operator has to be seated. Check for open circuit and replace
	Main system controller	Check error fault codes (See page 15)
	Tripped 100 amp circuit breaker	Check for electrical short 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 page 15) 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.
		Use less or change
Vacuum motor does not turn on		chemical.
		Use defoaming agent.
	Five LEDs flashing on Battery Gauge	Check for motor overload.
		Reset machine: Turn key
		switch off and restart.
Poor sweeping	Debris box full	Empty and clean debris box
performance	Brushes worn	Replace brushes
(Cylindrical System)	Bristles have taken a set	Rotate brushes
Solution tank empty	Solution tank empty	Refill solution tank
indicator light on	Faulty float switch	Replace float switch

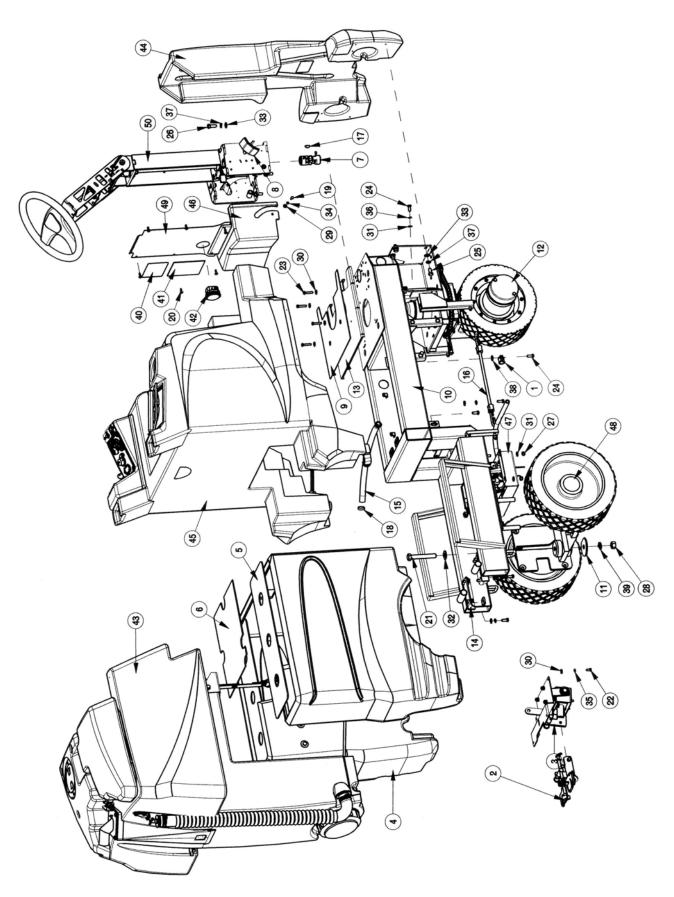
EXPLODED VIEWS MAIN ASSEMBLY I



MAIN ASSEMBLY I BOM

			BILL OF MATERIAL
ITEM	PART NO.	REQ'D	DESCRIPTION
1	281001	1	BUMPER FRONT
2	281014	1	BATTERY TRAY ASSY
3	281066	1	ANTISKID STEP, LH
4	281067	1	ANTISKID STEP, RH
5	281078	1	HOSE ASSY - SQUEEGEE, SCV 28/32
6	281139	2	COVER, HEADLIGHT BLANK 5", SCV2832
7	281251	1	FRONT DRIVE ASSY
8	281365	1	SEAT SUB-ASS'Y
9	281579	1	SCV SQUEEGEE BLADE ASSY 32"
10	281991	1	STEERING COVER, TOP
11	281992	1	STEERING COVER, BOTTOM
12	281996	1	BKT, FOR HORN, SCV2832
13	450207	2	LATCH, SOFT #C7-10
14	710203	2	SCR-MC 6-32 X .37 ST PL PAN HD
15	710328	4	SCR-MC 8-32 X .37 ST PL - ROUND HEAD
16	711161	4	SCR-HI/LO 10 X 3/4 STL BLK ZINC
17	711162	4	#10 X 1-1/2 HI-LO
18	711241	5	SCR-HEX 3/8 -16X .75" ZP
19	711371	2	NUT-NYLOC 6-32 STL ZINC
20	711380	1	NUT-NYLOC 3/8-16 NUT
21	711542	4	WSR-HELICAL #8
22	712812	2	SCR-MC 10-24 X .62 PPH ST PL
23	712816	4	SCR-MC 10-24 X .37 STPL
24	715298	2	DECAL,SCV 28/32
25	715385	1	MINUTEMAN LOGO 1.4 X 9.6
26	748200	1	HORN / BACK UP ALARM, SCV 24/26
27	281010E	1	RECOVERY TANK / LID SUB-ASSEMBLY
28	281012E	1	SOLUTION TANK ASS'Y - SCV 28/32
29	281201E	1	REAR AXLE ASSY
30	282301E	1	STEERING ASSEMBLY, SCV2832

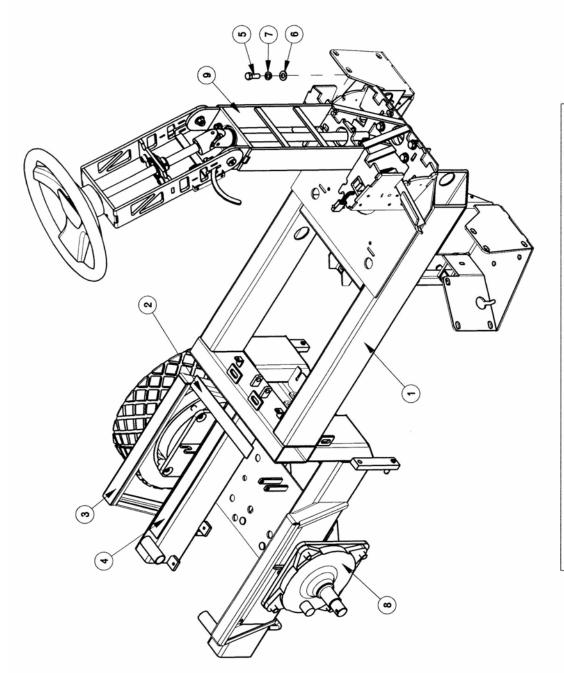
MAIN ASSEMBLY II



MAIN ASSEMBLY II BOM

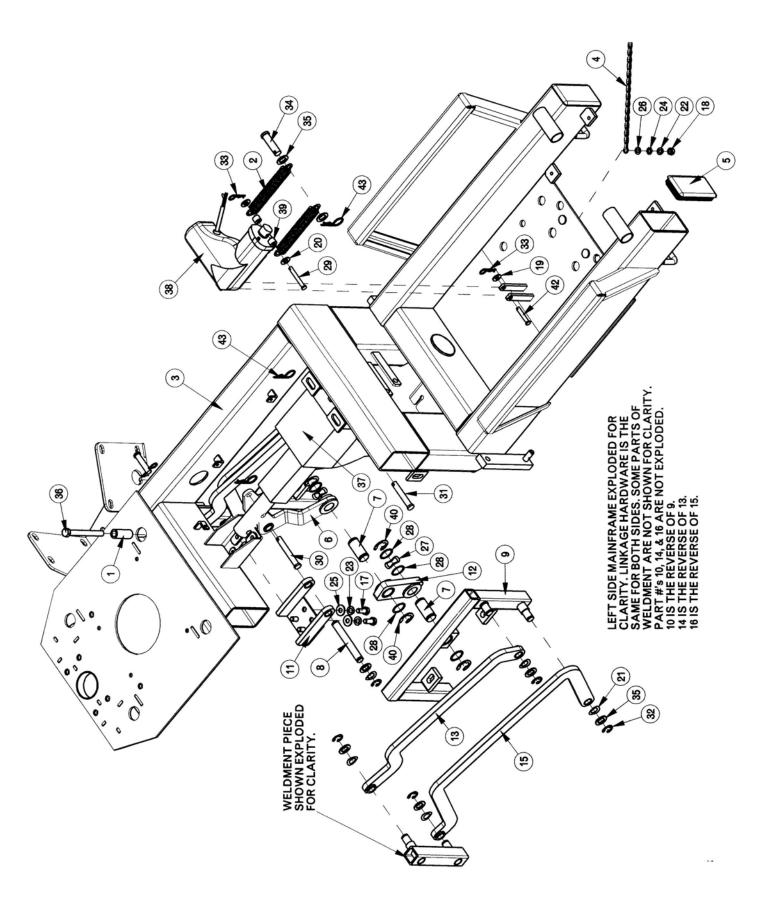
ITES:	DARTIG		BILL OF MATERIAL
ITEM	PART NO.	REQ'D	DESCRIPTION
1	82-54-A	1	CLAMP, MS21333-114
2	241730	1	REAR SQUEEGEE ASSY TOP, SCV 24/26
3	241735	1	REAR SQUEEGEE MECH ASSY
4	281014	1	BATTERY TRAY ASSY
5	281026	2	2800 BATTERY COVER SIDE
6	281027	1	2800 BATTERY COVER CENTER
7	281051	1	SPIDER COUPLING, 3/4"
8	281065	1	ANTISKID PEDAL
9	281068	1	ANTISKID FLOOR
10	281101	1	MAINFRAME WMT, 28" SCRUBBER
11	281211	4	SNUBBING WSR
12	281251	1	FRONT DRIVE ASSY
13	281351	1	FLOOR PANEL WELDMENT
14	281360	2	FIXED SLIDER WELDT
15	281428	1	SOLUTION BALANCE HOSE
16	281445	1	BUNGEE CORD - 16"
17	383277	2	KEY WOODRUFF 3/16 X 3/4
18	383347	2	CRIMP CLAMP 1/2 HOSE SS 185R
19	710356	1	SCR-MC 10-32X.62 STPL
20	711160	6	#10 X 5/8 HI-LO
21	711173	4	BLT-HH 5/8-11 X 4 (GR 5)
22	711202	4	BLT-HH 1/4-20 X 0.50 STPL
23	711210	4	BLT-HH 1/4-20 X 1.25 STPL
24	711228	17	BLT-HH 5/16-18 X .75 ST PL
25	711241	6	SCR-HEX 3/8 -16X .75" ZP
26	711242	6	BLT-HEX 3/8 -16X1.00 ZP
27	711374	4	NUT-NYLOC 5/16-18
28	711445	4	NUT HEX 5/8 X 11 PLATED
29	711503	1	WSR, FLAT#10
30	711505	8	WSR-FLAT 1/4
31	711506	20	WSR-FLT .344 X .690 X .062 STL ZINC
32	711511	4	WSR-FLAT .62 X 1.31 X .09
33	711515	12	WSR-FLAT .406 X .812 X .0625
34	711534	1	WSR-EXTERNAL LOCK #10
35	711544	4	WSR-HELICAL 1/4
36	711545	16	WSR-HELICAL 5/16
37	711546	12	WSR-HELICAL 3/8
38	711575	1	WSR-FLT .31x.75x06ST
39	711375	4	WSR-HELI .64 X 1.26 X .06 PL
40	715901	1	WARNING DECAL, TANK LATCH
41	715901	1	DECAL, DIAGNOSTIC CODES SCVS
42		1	HOUR METER 10 - 80 VDC
-	740539	1	RECOVERY TANK / LID SUB-ASSEMBLY
43	281010E	1	FRONT BUMPER ASM
44	281011E	1	
45	281012E		SOLUTION TANK ASS'Y - SCV 28/32
46	281024E	1	STEERING COLUMN COVER - BOTTOM
47	281098E	1	PUMP SUB-ASSEMBLY
48	281201E	1	REAR AXLE ASSY
49	281429E	1	STEERING COLUMN REAR COVER - TOP

MAINFRAME ASSEMBLY I



BILL OF MATERIAL	REQ'D DESCRIPTION	1101 1 MAINFRAME WMT, 28" SCRUBBER	1 FRICTION STRIP 9.50"	1469 1 FRICTION STRIP 14.25"	1 FRICTION STRIP 18.00"	1242 4 BLT-HEX 3/8 -16X1.00 ZP	1515 4 WSR-FLAT .406 X .812 X .0625	1546 4 WSR-HELICAL 3/8	1 REAR AXLE ASSY	2301E 1 STEERING ASSEMBLY, SCV2832
	PART NO. RE	281101	281468	281469	281470	711242	711515	711546	281201E	282301E
	ITEM	-	7	က	4	2	9	7	80	6

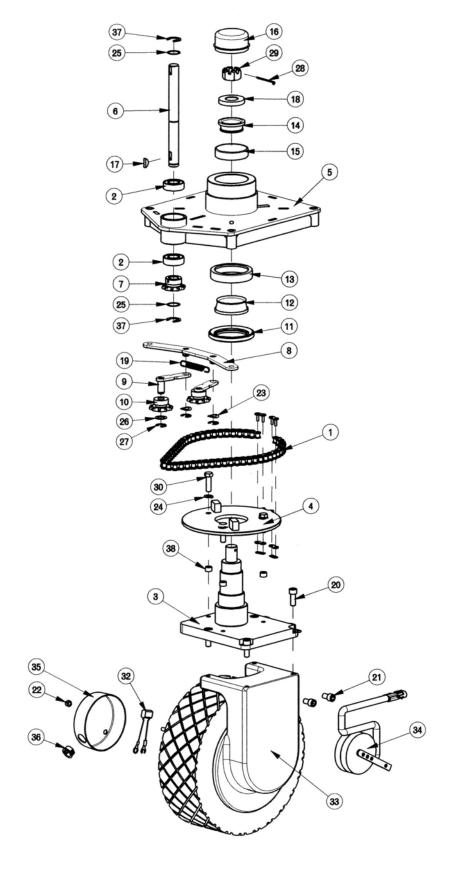
MAINFRAME ASSEMBLY II



MAINFRAME ASSEMBLY II BOM

ITEM	PART NO.	REQ'D	BILL OF MATERIAL DESCRIPTION
1	260125	1	BUSHING YOKE, .407 X 1.687 STL
2	281046	2	SPRING, EXTENSION - 4.50"
3	281101	1	MAINFRAME WMT, 28" SCRUBBER
4	281200	1	DRAG CHAIN ASSY, FRAME
5	281446	2	ENDCAP, TUBING 2" X 4"
6	281451	1	CRANK WMT W/ BUSHING ASS'Y
7	281458	4	LINK ATTACHMENT SHAFT
8	281459	1	CRANK PIVOT SHAFT
9	281461	1	LIFT WMT LH W/ BUSHING ASS'Y
10	281463	1	LIFT WMT RH W/ BUSHING ASS'Y
11	281471	1	ACTUATOR ATM'T WMT W/ BUSHING ASS'Y
12	281475	2	LIFT LINK ASS'Y
13	281477	1	UPPER LINK ASS'Y, LEFT
14	281478	1	UPPER LINK ASS'Y, RIGHT
15	281479	1	LOWER LINK ASS'Y, LEFT
16	281480	1	LOWER LINK ASS'Y, RIGHT
17	711228	4	BLT-HH 5/16-18 X .75 ST PL
18	711316	2	NUT-HEX 1/4-20 ST PL
19	711505	1	WSR-FLAT 1/4
20	711506	2	WSR-FLT .344 X .690 X .062 STL ZINC
21	711524	10	WSR-WAVE .52 X .87 X .01
22	711544	2	WSR-HELICAL 1/4
23	711545	4	WSR-HELICAL 5/16
24	711564	1	WSR-EXTERNAL LOCK 1/4
25	711575	4	WSR-FLT .31x.75x06ST
26	711577	2	WSR-FLAT 260 X .50 X .020THK
27	711583	4	WSR-WAVE .78 X 1.00 X .02
28	711588	12	WSR-FLAT .75X1.00X.025
29	711675	1	CLEVIS PIN 1/4 X 1-7/8
30	711677	1	CLEVIS PIN 3/8 X 2-5/8
31	711678	1	CLEVIS PIN 3/8 X 2-1/4
32	711713	10	RETAINING RING - "E" TYPE EXT .500
33	711808	3	COTTER PIN-HAIR #13
34	712109	1	CLEVIS PIN, 1/2 x 1-3/4
35	712310	12	WSR- FLAT .52 X .87 X .06 PL
36	713051	1	BLT-HH 3/8-16 X 3.75 #5
37	742712-2	1	ACTUATOR BRUSH, W/WEATHER PACK
38	748009-1	1	ACTUATOR, W/WEATHER PACK SCV SQUEEGEE
39	762371	2	BUSHING .260X.50X.37
40	809148	8	RETAINING RING - "E" TYPE EXT .75
41	831965	1	3/8 x 1.63" CLEVIS PIN
42	832974	1	CLEVIS PIN, 1/4 x 1-3/8
43	833374	3	HAIRPIN COTTER 3/8

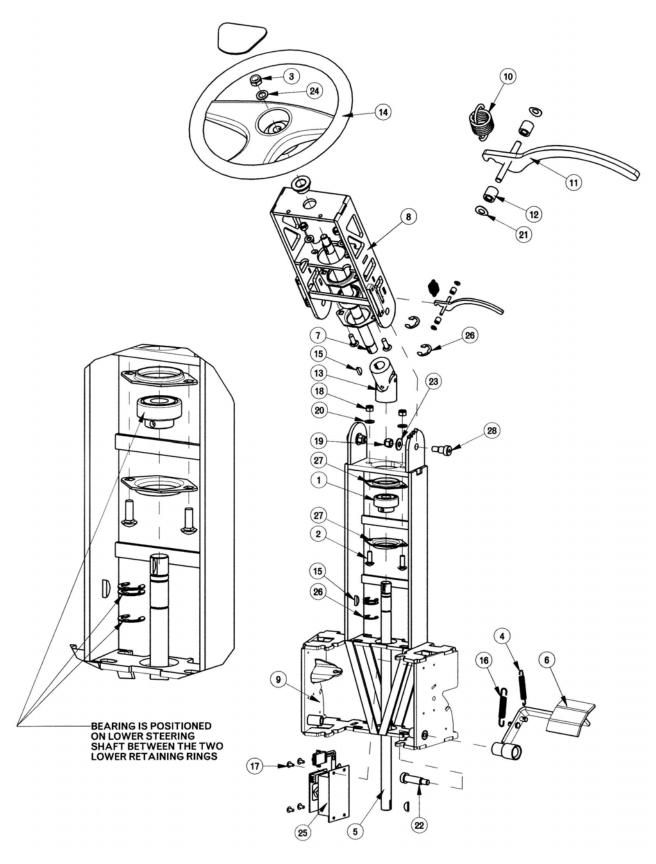
FRONT DRIVE ASSEMBLY



FRONT DRIVE ASSEMBLY BOM

ITEM	PART NO.	BILI REQ'D	OF MATERIAL 281251 DESCRIPTION
1	281054	1	CHAIN, STEERING No. 40, 27.5"
2	281057	2	BEARING 3/4" RADIAL
3	281252	1	SPINDLE WMT
4	281254	1	STEERING DISC WMT
5	281260	1	MOUNT WMT, FRONT DRIVE
6	281267	1	STEERING SPROCKET SHAFT
7	281268	1	SPROCKET-RC #40, 10 TEETH, 3/4" BORE
8	281276	1	IDLER BASE WMT, FRONT DRIVE
9	281279	2	IDLER ARM WMT, FRONT DRIVE
10	281282	2	IDLER SPROCKET-RC #40, 10 TEETH
11	383074	1	SPINDLE SEAL
12	383075	1	BEARING CONE (LM104949)
13	383076	1	BEARING CUP (LM104911)
14	383077	1	BEARING CONE (LM104949)
15	383078	1	BEARING CUP (LM104911)
16	383250	1	GREASE CAP
17	383277	1	KEY WOODRUFF 3/16 X 3/4
18	383364	1	THRUST WASHER
19	430051	1	RETURN SPRING-3.00"
20	710858	4	SCR-SC 3/8-16 X 1.00
21	710991	2	SCR-SC 3/8-24 X 5/8 ST PL
22	711352	2	NUT-ACORN 1/4-20 ST N1
23	711524	2	WSR-WAVE .52 X .87 X .01
24	711546	3	WSR-HELICAL 3/8
25	711588	2	WSR-FLAT .75X1.00X.025
26	711594	2	WSR-FLAT .56 X .88 X .03
27	711713	4	RETAINING RING - "E" TYPE EXT .500
28	711807	1	COTTER PIN .12 X 1.75
29	712113	1	CASTLE NUT
30	713043	3	BLT-HH 3/8-16 X 1 1/4 #5
31	740099	5	CABLE TIE - SMALL
32	744016-1	2	CAP .15 MICROFARAD 5/16R-1/4FORK
33	748010	1	IMPERIAL ELEC CHASSISDRIVE 12"
34	748010-3	1	E MAG BRAKE ASSY
35	748049	1	VAC FRMED DRIVE MOTOR COVER
36	748122	1	BUSHING, HEYCO 2103 I.D .625.
37	809148	2	RETAINING RING - "E" TYPE EXT .75
38	809247	3	STEERING PLATE SPACER

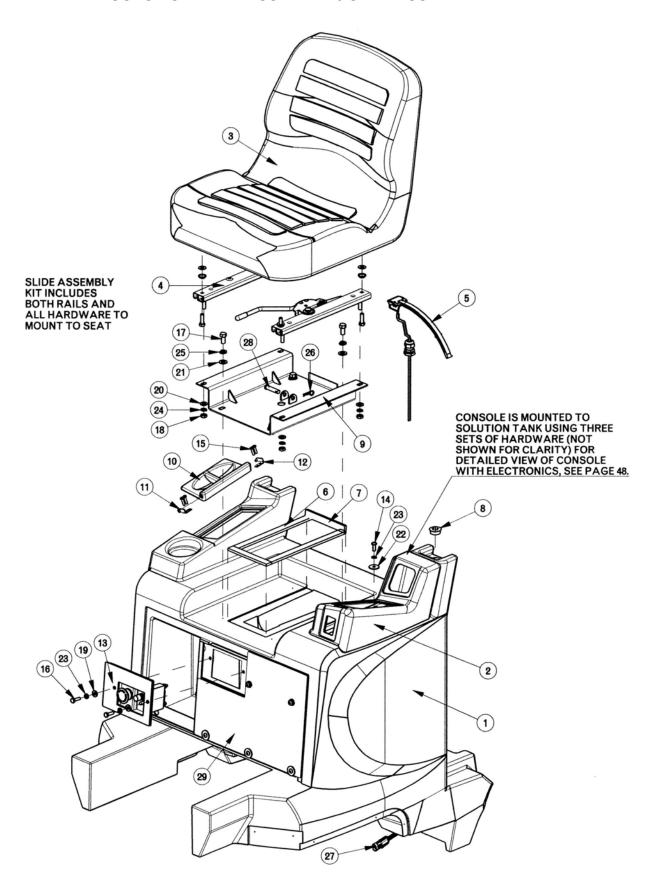
STEERING ASSEMBLY



STEERING ASSEMBLY BOM

			OF MATERIAL - 282301E
ITEM	PART NO.	REQ'D	DESCRIPTION
1	66-138-A	2	BEARING, 3/4"
2	70-516-16	4	BLT-CAR 5/16-18 X 1.00
3	363-816	1	NUT NYLOC 1/2-20
4	281047	1	SPRING, EXTENSION - 2.75"
5	281328	1	SHAFT,LOWER STEERING
6	281331	1	ACCEL PEDAL WMT
7	281484	1	SHAFT,UPPER STEERING
8	281989	1	STEERING ASSY, TOP, SCV2832
9	282302	1	STEERING WELDMENT, LOWER
10	282303	1	SPRING - EXTENSION 1.375" F.L.
11	282309	1	ADJUSTMENT LEVER AND PIVOT PIN ASSY
12	282310	2	BUSHING - ADJ. LEVER AND PIVOT PIN ASSY
13	383098	1	UNIVERSAL JOINT
14	383152	1	STEERING WHEEL
15	383277	4	KEY WOODRUFF 3/16 X 3/4
16	430051	1	RETURN SPRING-3.00"
17	710153	4	SCR-MC 10-32X.63 TH ZINC
18	711374	4	NUT-NYLOC 5/16-18
19	711380	2	NUT-NYLOC 3/8-16 NUT
20	711506	4	WSR-FLT .344 X .690 X .062 STL ZINC
21	711521	2	WSR-WAVE .21 X .44 X .02
22	712102	1	BLT- SHLDR 1/2 X 1-1/2
23	712301	2	WSR-FLAT .87 X .38 X .06
24	712310	1	WSR- FLAT .52 X .87 X .06 PL
25	748013-1	1	POTENTIOMETER BOX ASSEMBLY
26	809148	5	RETAINING RING - "E" TYPE EXT .75
27	340742MCH	4	BEARING FLANGE, SHEARED
28	712099PLT	2	BLT- SHLDR 1/2 X 5/8

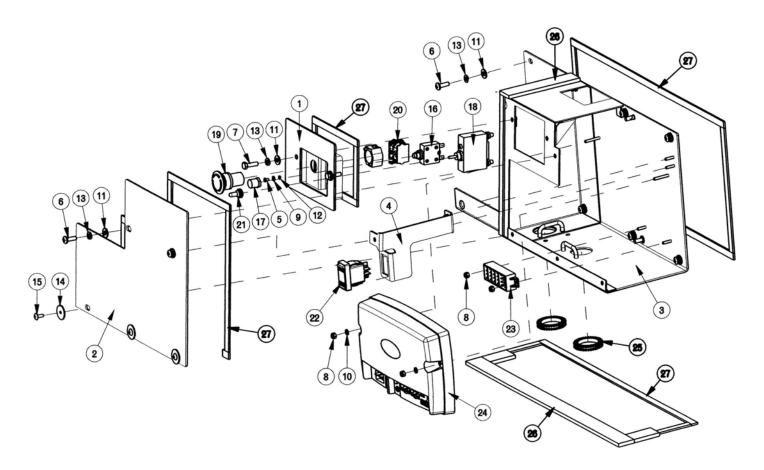
SOLUTION TANK ASSEMBLY / SEAT ASSEMBLY



SOLUTION TANK ASSEMBLY / SEAT ASSEMBLY BOM's

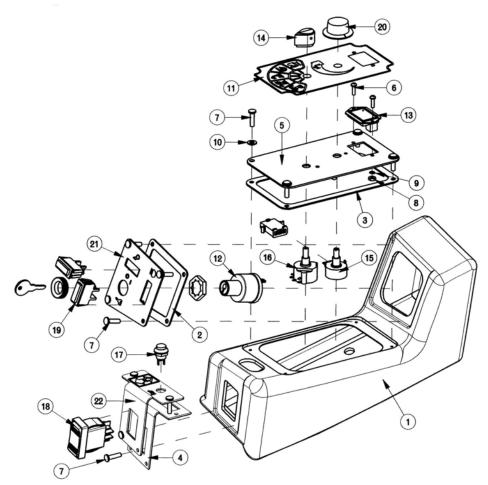
ITEM	PART NO.	REQ'D	DESCRIPTION
1	281002	1	SOLUTION TANK - 2800
2	281005	1	SCV 28/32 CONSOLE
3	281085	1	ASS'Y SEAT, SUPER SUBURBAN
4	281086	1	SLIDE ASS'Y KIT
5	281087-1	1	SWITCH, SEAT
6	281363	2	SEAT GASKET - LONG
7	281364	2	SEAT GASKET - SHORT
8	281371	1	VENT PLUG
9	281376	1	28 SEAT BRACKET WMT
10	281380	1	SOLUTION TANK PLASTIC COVER
11	281381	1	SOLN TANK HINGE SUB-ASSY - RIGHT
12	281382	1	SOLN TANK HINGE SUB-ASSY -LEFT
13	281401	1	E-STOP ASS'Y
14	710380	13	SCR-MC 1/4-20 X .75 ST PL
15	711161	4	SCR-HI/LO 10 X 3/4 STL BLK ZINC
16	711206	2	BLT-HH 1/4-20 X .87 ST PL
17	711241	4	SCR-HEX 3/8 -16X .75" ZP
18	711319	4	5/16-18 HEX NUT
19	711505	12	WSR-FLAT 1/4
20	711506	4	WSR-FLT .344 X .690 X .062 STL ZINC
21	711515	4	WSR-FLAT .406 X .812 X .0625
22	711519	3	WSR- FLAT .25 X 1.01 X .06
23	711544	15	WSR-HELICAL 1/4
24	711545	4	WSR-HELICAL 5/16
25	711546	4	WSR-HELICAL 3/8
26	711808	1	COTTER PIN-HAIR #13
27	742708-4	1	FLOAT SWITCH W/WEATHER PACK
28	831965	1	3/8 x 1.63" CLEVIS PIN
29	281407E	1	ELECTRICAL PANEL ASS'Y SCV 28/32

ELECTRICAL PANEL



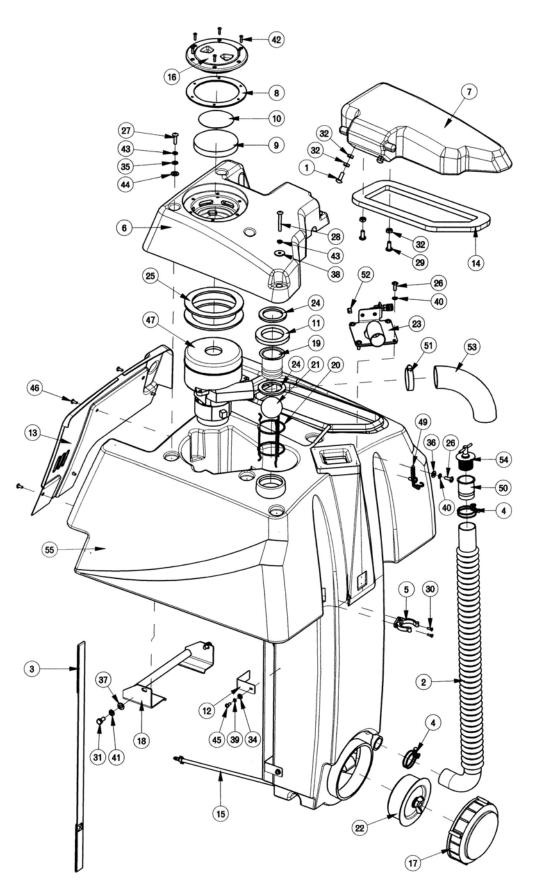
			BILL OF MATERIAL
ITEM	PART NO.	REQ'D	DESCRIPTION
1	281402	1	E-STOP WELDMENT
2	281412	1	ELECTRICAL COVER PANEL
3	281910	1	ELECTRICAL PANEL WMT, 2800
4	281982	1	ELECTRICAL CVR PNL SUPPORT BRKT
5	710202	1	SCR-MC 6-32 X .25 ST PL PAN HD
6	710380	10	SCR-MC 1/4-20 X .75 ST PL
7	711206	2	BLT-HH 1/4-20 X .87 ST PL
8	711372	6	NUT-NYLOC 8-32 STL ZINC
9	711501	1	WSR-FLAT#6
10	711502	4	WSR-FLT .170 x.38 x.032 STL ZINC
11	711505	12	WSR-FLAT 1/4
12	711541	1	WSR-HELICAL #6 ST PL
13	711544	12	WSR-HELICAL 1/4
14	711599	3	WSR-FLT .187 X 1.00 X .06
15	712822	3	SCR-MC TR HD 10-24 X .50 SS
16	742350	1	CIRCUIT BREAKER 6 AMP
17	742748	1	CIRCUIT BREAKER BOOT
18	748012	1	CIRCUIT BREAKER 100A
19	748014	1	EMBERGENCY PUSHBUTTON ACTUATOR, 2800
20	748015	1	CONTACT BLOCK, 2800
21	748032	1	CIRCUIT BREAKER, BOOT FOR 748012
22	748152	1	SWITCH, ON-OFF-ON, SCV2832
23	748153	1	TERMINAL BLOCK EAGLE 3
24	748174	1	CONTROLLER,TRIO PLUS SCV2832E
25	281449	2	SERRATED GROMMET STRIP187IN
26	806006	3'	GASKET
27	830557	11.25'	DORTITE 1/2 INCH RM 1 F

CONSOLE



		I	BILL OF MATERIAL
ITEM	PART NO.	REQ'D	DESCRIPTION
1	281005	1	SCV 28/32 CONSOLE
2	281372	1	GASKET - IGNITION SWITCH PANEL
3	281373	1	GASKET - MEMBRANE SWITCH
4	281375	1	GASKET - DIRECTION SWITCH
5	281499	1	BKT, CONTROLS, SCV2832
6	710204	2	SCR-MC 6-32 X .50 ST PL PAN HD
7	711161	12	SCR-HI/LO 10 X 3/4 STL BLK ZINC
8	711301	2	NUT-HEX 6-32 ST PL
9	711541	2	WSR-HELICAL #6 ST PL
10	712320	4	WSR-NYLON .22 X .45 X .04
11	715455	1	DECAL, SCV CONTROLS, 28/32
12	742927	1	SWITCH, KEY 2 POLE
13	747011-1	1	BATT GAUGE ASSY TRUE CHARGE 36V
14	747020	1	KNOB-MODE SELECTOR
15	747025	1	POTENTIOMETER ASSY WATER FLOW
16	747027	1	SWITCH ASSY, MODE SELECTOR
17	748047	1	HORN SWITCH, SCV 36V
18	748151	1	SWITCH, ON-ON, DPDT
19	748154	2	SWITCH, BLANK, 742716
20	809874	1	KNOB, SPEED CONTROL
21	281378SP	1	IGNITION SWITCH PANEL
22	281497SP	1	DIRECTION CONTROL PANEL

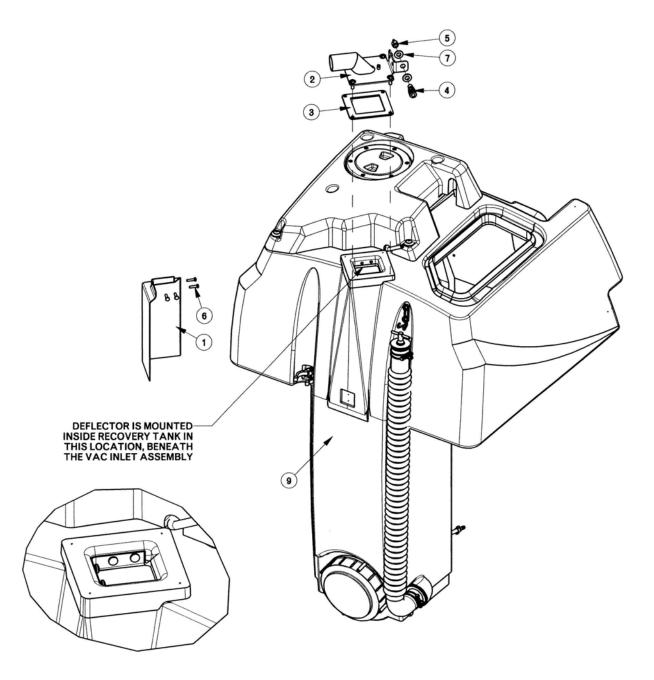
RECOVERY TANK I



RECOVERY TANK I BOM

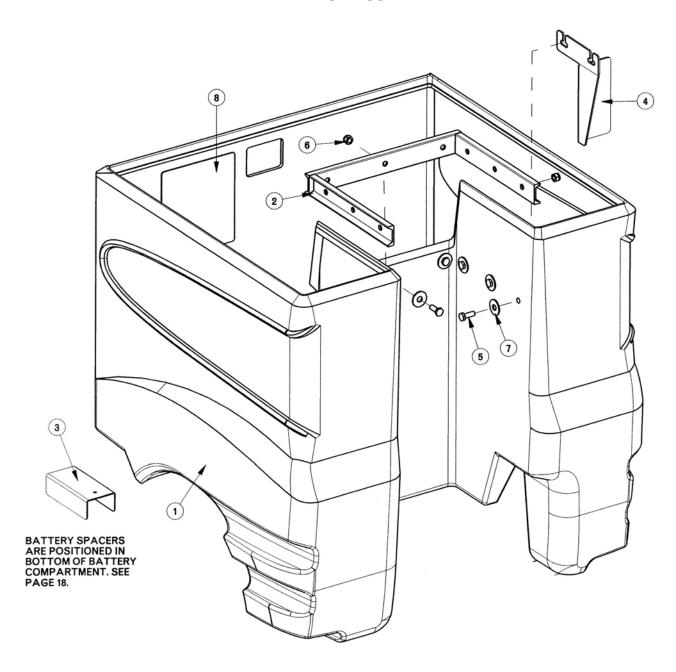
ITEM	PART NO.	REQ'D	DESCRIPTION
1	70-516-16	2	BLT-CAR 5/16-18 X 1.00
2	200198	1	DUMP HOSE
3	241433	1	RECOVERY TANK SAFETY STRAP, SCV 24/20
4	260203	2	WIRE GRIP HOSE CLAMP
5	260579	1	TOOL CLIP, 1.5" HOSE
6	281006	1	LID - FIXED 2800 RECOVERY TANK
7	281007	1	LID-MOVABLE 2800 RECOVERY TANK
8	281018	1	GASKET, NEO 6.00 X 4.50 X .125
9	281055	1	VAC MOTOR FILTER
10	281056	1	VAC MOTOR INLET SCREEN
11	281073	1	INLET GASKET
12	281076	3	2800 REC TANK BRACKET
13	281099	1	WIRE COVER
14	281358	1	GASKET, MOVABLE LID - SCV
15	281391	1	SOL. FEED HOSE,OFF AISLE SUB-ASY
16	281423	1	FILL CAP W/CHAIN ASSY 4.00
17	281432	1	CAP 6", CLEAN OUT SCV
18	281437	1	STRAP HOLDER WMT
19	281439	1	SHUTOFF FLANGE TUBE
20	281440	1	FLOAT CAGE, SCV
21	281442	1	FLOAT BALL, SCV
22	281444-1	1	STOPPER PLUG ASSY
23	281496	1	VAC INLET ASSY, SCV2832
24	281950	2	FLOAT CAGE GASKET
25	380035	2	MOTOR GASKET
26	710180	6	SCR-MC TR HD 1/4-20x.75 STL ZINC
27	710189	3	SCR-MC 1/4-20 X 1.00 TRUSS PL SS
28	710190	2	SCR-MC 1/4-20 X 2.00 TRUSS PL SS
29	710197	2	SCR-MC 5/16-18 X .75 PHILLIPS
30	710530	2	SCR-MC FL HD 8-32 X .50 BRS
31	711227	2	BLT-HH 5/16-18 X .62 ST PL
32	711319	5	5/16-18 HEX NUT
33	711420	1	NUT- HEX JAM 5/16-18 ST PL
34	711503	3	WSR, FLAT#10
35	711504	3	WSR-FLAT 1/4 ID SS
36	711505	2	WSR-FLAT 1/4
37	711506	2	WSR-FLT .344 X .690 X .062 STL ZINC
38	711519	2	WSR- FLAT .25 X 1.01 X .06
39	711543	3	WSR - HELICAL #10
40	711544	6	WSR-HELICAL 1/4
41	711545	2	WSR-HELICAL 5/16
42	712516	6	SCR-BHCS #8-32 x .62 SS
43	712758	5	WSR-HELICAL 1/4 SS
44	712767	3	FLAT WASHER .406 ID X .75 OD X .
45	712811	3	SCR-MC RD HD 10-24 X .50 ST PL
46	712822	5	SCR-MC TR HD 10-24 X .50 SS
47	742772-1	1	VACUUM ASSEMBLY, SCV
48	748199	1	WIRE ASSY, RECOVERY TANK-VAC
49	760286	1	HOOK, WIRE FORMED
50	760343	1	TUBE, HOSE - 24/32B
51	760859	1	CLAMP, HOSE
52	830082	1	HOSE CLAMP 3/8
53		1	HOSE RUBBER FLEX 2 X 9
54	833191 833316	1	DRAIN PLUG
55	281003E	1	RECOVERY TANK - 2800

RECOVERY TANK II



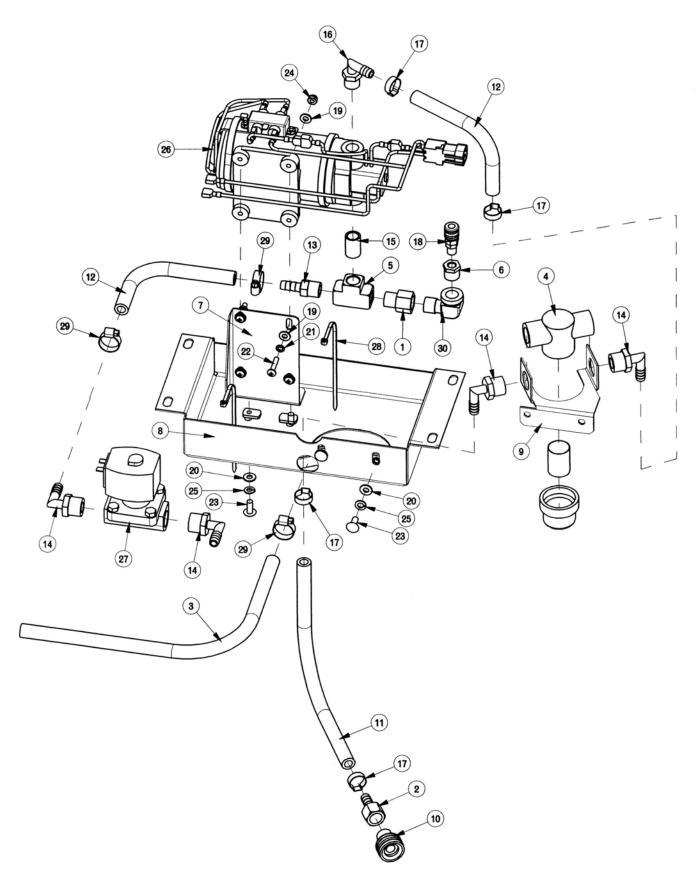
		BILL	OF MATERIAL - 281010E	
ITEM	PART NO.	REQ'D	DESCRIPTION	
1	281019	1	DEFLECTOR	
2	281490	1	VAC INLET WMT, SCV2832	
3	281951	1	VAC INLET GASKET	
4	450221	1	Q.C. COUPLING (FEMALE)	
5	450223	1	FITTING BRASS 1/8 FPT - 1/8 BARB	
6	711161	4	SCR-HI/LO 10 X 3/4 STL BLK ZINC	
7	711515	2	WSR-FLAT .406 X .812 X .0625	
8	748199	1	WIRE ASSY, RECOVERY TANK-VAC	
9	281003E	1	RECOVERY TANK - 2800	

BATTERY BOX ASSEMBLY



		BILL	OF MATERIAL - 281014
ITEM	PART NO.	REQ'D	DESCRIPTION
1	281004	1	BATTERY TRAY - 2800
2	281059	1	BATTERY BOX STIFFENER WM'T
3	281671	2	BRACKET, U CHANNEL SPACER
4	281672	2	BKT, BATTERY STOP, SCV2832
5	711229	9	BLT-HH 5/16 -18875
6	711374	9	NUT-NYLOC 5/16-18
7	711507	9	WSR-FLAT .37 X 1.12 X .06
8	715902E	1	DECAL, SCV ECO BATTERY

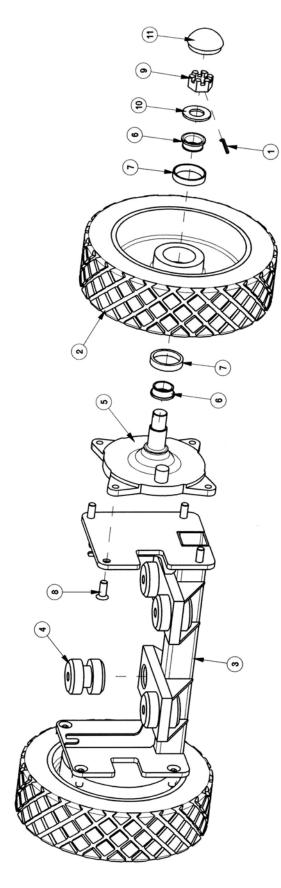
PUMP ASSEMBLY



PUMP ASSEMBLY BOM

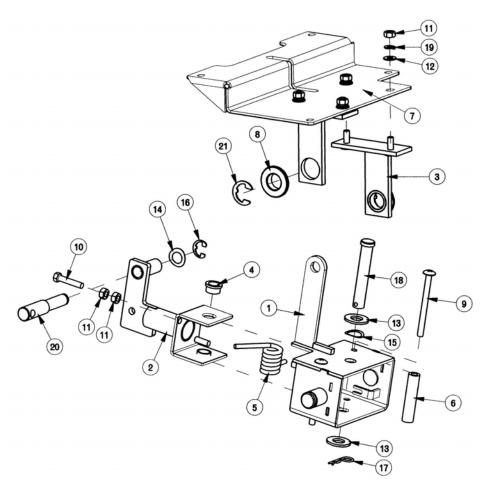
TEM	PART NO.	REQ'D	DESCRIPTION
1	210409	1	FITTING ADAPTOR 3/8MPTx38/FPT BR
2	210409	1	FITTING BRASS 3/8" FPT X 3/8" BARB
3	241097	1	HOSE 3/8 x 31 WIRE REINFORCED, SCV 24/26
4	281089	1	FILTER, IN-LINE
5	281090	1	FITTING BRASS 3/8" FPT TEE
6	281090	1	FITTING BRASS 3/8 FFT TEE FITTING 3/8MPTx1/8 FPT REDUCER
7	281368	1	PUMP MOUNT PLATE
		1	PUMP SUPPORT PLATE
9	281369	1	PUMP MTG PLATE
		-	
10	281425	1	SWIVEL CONNECTOR - 3/4" GHT X 3/8" MPT
11	320251	1	HOSE 3/8 x 12 WIRE REINFORCED
12	320254	2	HOSE 3/8 x 9.00" WIRE REINFORCED
13	342430	1	FITTING BRASS 3/8BARB 3/8 HOSE
14	383327	4	ELBOW 1/2 MPT X 3/8 BARB
15	383332	1	FITTING BRASS 3/8 NIPPLE
16	450040	1	FITTING 90 3/8 MPT X 3/8 BARB
17	450076	4	CRIMP CLAMP SS 185R
18	450221	1	Q.C. COUPLING (FEMALE)
19	711503	8	WSR, FLAT#10
20	711504	4	WSR-FLAT 1/4 ID SS
21	711553	4	WSR- INTERNAL LOCK #10
22	712531	4	SCR-MC 10-24 X 1.00 SS
23	712565	4	SCR-MC 1/4-20X.63 SS TR HD
24	712638	4	NUT, HEX 10-24 SS NYLOC
25	712758	4	WSR-HELICAL 1/4 SS
26	742709-2	1	PUMP ASSEMBLY-SCV
27	742718-1	1	SOLENOID VALVE 36V
28	828062	2	CABLE TIE05 x .14 x 8"
29	829129	3	HOSE CLAMP MICRO-SEAL
30	830062	1	FITTING 90 STREET ELBOW 3/8x3/8

REAR AXLE ASSEMBLY



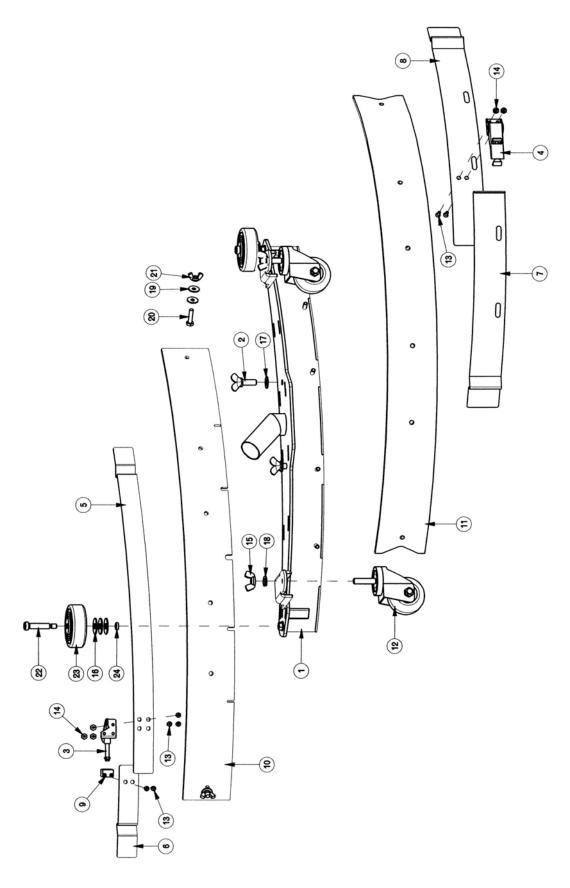
		BILL	BILL OF MATERIAL - 281201E
ITEM	PART NO.	REQ'D	DESCRIPTION
-	380-632-20	2	3/16 COTTER PIN
2	281031	2	REAR WHEEL 13.75 OD SOFT RIDE
ဗ	281202	-	REAR AXLE WMT
4	281213	4	RING & BUSHING ISOLATOR
2	281460	2	REAR AXLE CASTING, SCV2832E
9	383194	4	BEARING CONE
7	383195	4	BEARING CUP
8	711169	8	SCR-1/2-20 X 1.25 SOCKET FH W/ PATCH
6	711450	2	NUT-SLOTTED, 1-14 UNS
9	711514	2	WSR-FT 1.0 ID X 2.0 OD
1	383241PTD	2	GREASE CAP WHEEL-PAINTED

SQUEEGEE MECHANISM ASSEMBLY



		BILL	OF MATERIAL - 241735
ITEM	PART NO.	REQ'D	DESCRIPTION
1	241729	1	SQ YOKE BRKT WMNT SUB-ASSY
2	241731	1	REAR SQUEEGEE YOKE
3	241736	2	SQUEEGEE MECH ATTACHM'T WMNT
4	260041	2	OILITE FLANGE BUSHING
5	281064	1	TORSION SPRING
6	281715	2	MECHANISM STOP TUBE
7	281717	1	SQUEEGEE MECHANISM ATTACHMENT PLATE
8	320209	2	OILITE FLANGED BEARING
9	710592	2	SCR-MC 1/4-20 X 3.00 SS TH
10	711210	2	BLT-HH 1/4-20 X 1.25 STPL
11	711316	8	NUT-HEX 1/4-20 ST PL
12	711504	4	WSR-FLAT 1/4 ID SS
13	711509	2	WSR-FLAT 1/2 (.54X1.082X.087)
14	711524	1	WSR-WAVE .52 X .87 X .01
15	711525	1	WSR WAVE .65 x .86 x .01
16	711713	1	RETAINING RING - "E" TYPE EXT .500
17	711808	1	COTTER PIN-HAIR #13
18	712134	1	CLEVIS PIN, 1/2 x 3.00
19	712758	4	WSR-HELICAL 1/4 SS
20	762004	1	PIN, ADJUSTING
21	809148	2	RETAINING RING - "E" TYPE EXT .75

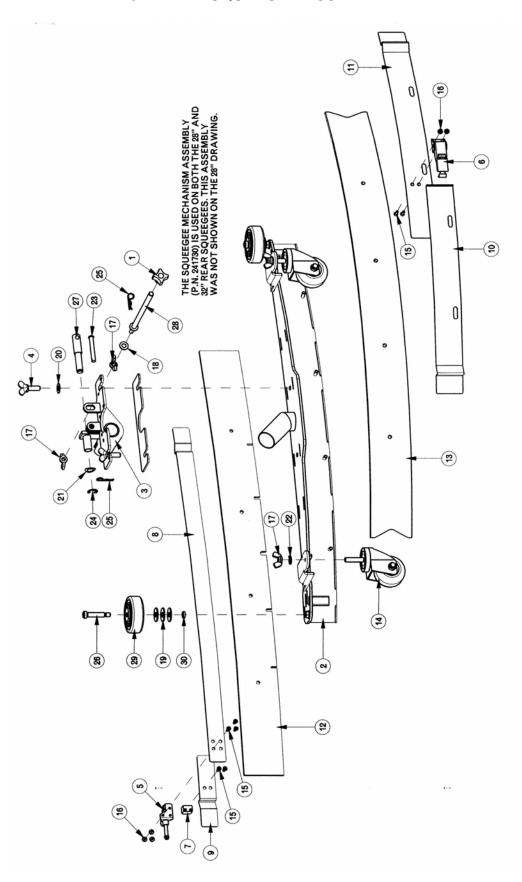
28" REAR SQUEEGEE ASSEMBLY



28" REAR SQUEEGEE ASSEMBLY BOM

		BILL	OF MATERIAL - 241740
ITEM	PART NO.	REQ'D	DESCRIPTION
1	241721	1	SQUEEGEE WMT ASS'Y, SCV 24/26
2	260206	2	WING BOLT 3/8-16 X 1.00 ST PL
3	281074	1	SQUEEGEE TOGGLE CLAMP, 2800
4	281075	1	SQUEEGEE LATCH, 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	PB FRONT BLADE, SQUEE GUM RUBBER
11	281764	1	PB REAR BLADE, SQUEEGEE GUM RUBBER
12	430325	2	CASTER 3/8"-16 X 1.50"
13	710530	7	SCR-MC FL HD 8-32 X .50 BRS
14	711026	5	NUT, HEX 8-32 NYLOC SS
15	711367	2	NUT- WING 3/8-16 ST PL
16	711507	6	WSR-FLAT .37 X 1.12 X .06
17	711515	2	WSR-FLAT .406 X .812 X .0625
18	711546	2	WSR-HELICAL 3/8
19	711550	4	WSR NYLON .25 ID X .75 OD
20	711560	2	SCREW-HH 1/4-20X1.00 NYLON
21	711563	2	NUT- WING 1/4-20 NYLON
22	712091	2	SHOULDER BLT 3/8 X 1.50
23	808829	2	WHEEL,TRUCK
24	832015	2	SPACER .38 X .50 X .140

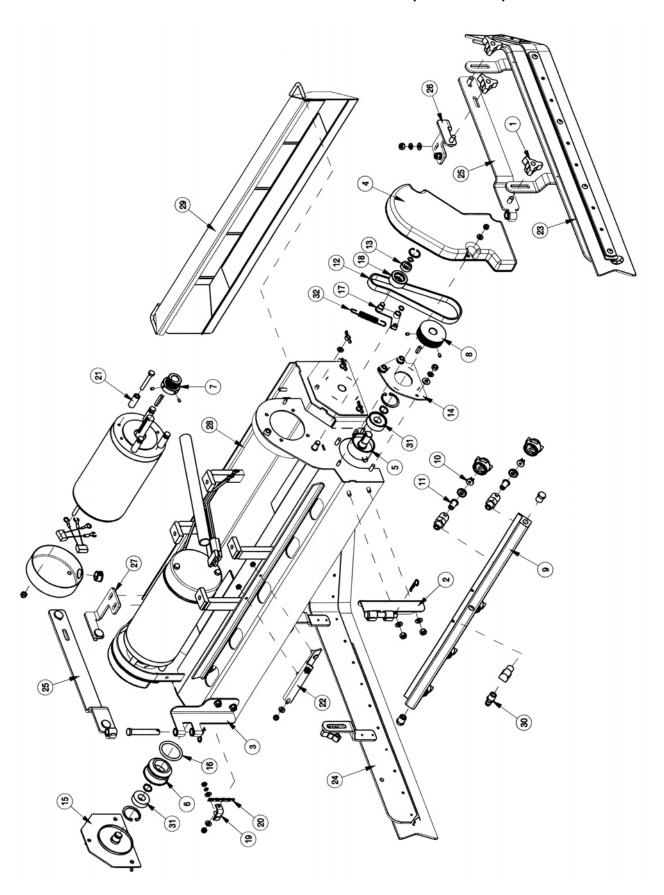
32" REAR SQUEEGEE ASSEMBLY



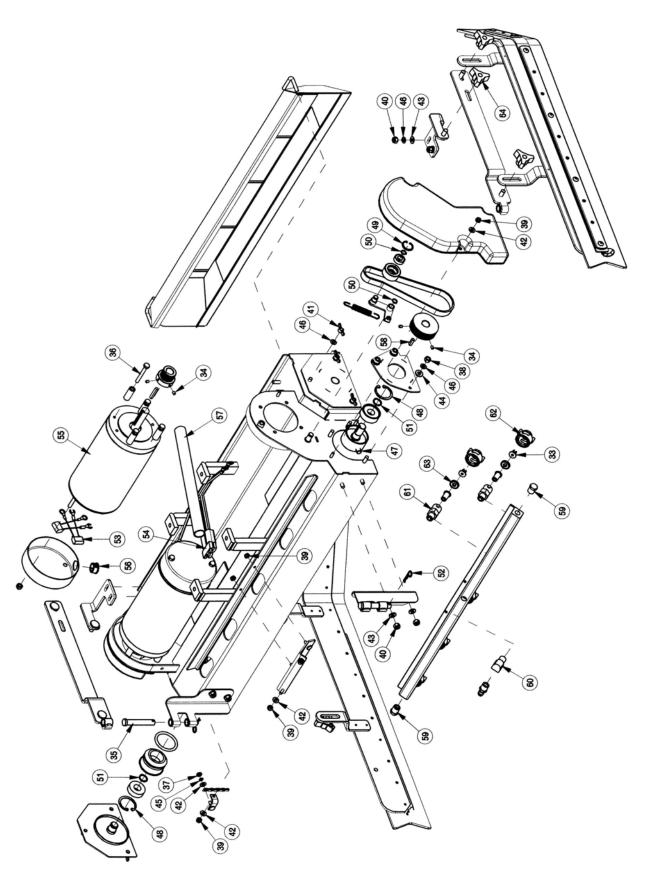
32" REAR SQUEEGEE ASSEMBLY BOM

		BILL OF	MATERIAL - 241730, 281579
ITEM	PART NO.	REQ'D	DESCRIPTION
1	241004	1	KNOB,3/8-16 FOUR PRONG.
2	241743	1	SQUEEGEE WMT ASSY, 32"
3	241751	1	REAR SQUEEGEE MOUNT PLATE WMT, SCV 24/26
4	260206	2	WING BOLT 3/8-16 X 1.00 ST PL
5	281074	1	SQUEEGEE TOGGLE CLAMP, 2800
6	281075	1	SQUEEGEE LATCH, 2800
7	281740	1	STOP BAR
8	281781	1	STRAP - FRONT CLAMP, 32"
9	281782	1	STRAP - FRONT STOP, 32"
10	281783	1	STRAP - REAR CATCH, 32"
11	281784	1	STRAP - REAR LATCH, 32"
12	281785	1	FRONT BLADE, SQUEEGEE GUM RUBBER, 32"
13	281786	1	REAR BLADE, SQUEEGEE GUM RUBBER, 32"
14	430325	2	CASTER 3/8"-16 X 1.50"
15	710530	7	SCR-MC FL HD 8-32 X .50 BRS
16	711026	5	NUT, HEX 8-32 NYLOC SS
17	711367	4	NUT- WING 3/8-16 ST PL
18	711506	2	WSR-FLT .344 X .690 X .062 STL ZINC
19	711507	6	WSR-FLAT .37 X 1.12 X .06
20	711515	2	WSR-FLAT .406 X .812 X .0625
21	711524	1	WSR-WAVE .52 X .87 X .01
22	711546	2	WSR-HELICAL 3/8
23	711671	1	CLEVIS PIN .31X2.13 11-10
24	711713	1	RETAINING RING - "E" TYPE EXT .500
25	711808	2	COTTER PIN-HAIR #13
26	712091	2	SHOULDER BLT 3/8 X 1.50
27	762005	1	ADJUSTING PIN, THREADED
28	762006	1	THREADED ROD, 3/8-16 X 7.5" LG
29	808829	2	WHEEL,TRUCK
30	832015	2	SPACER .38 X .50 X .140

28" CYLINDRICAL SCRUBDECK (ITEMS 1-32)

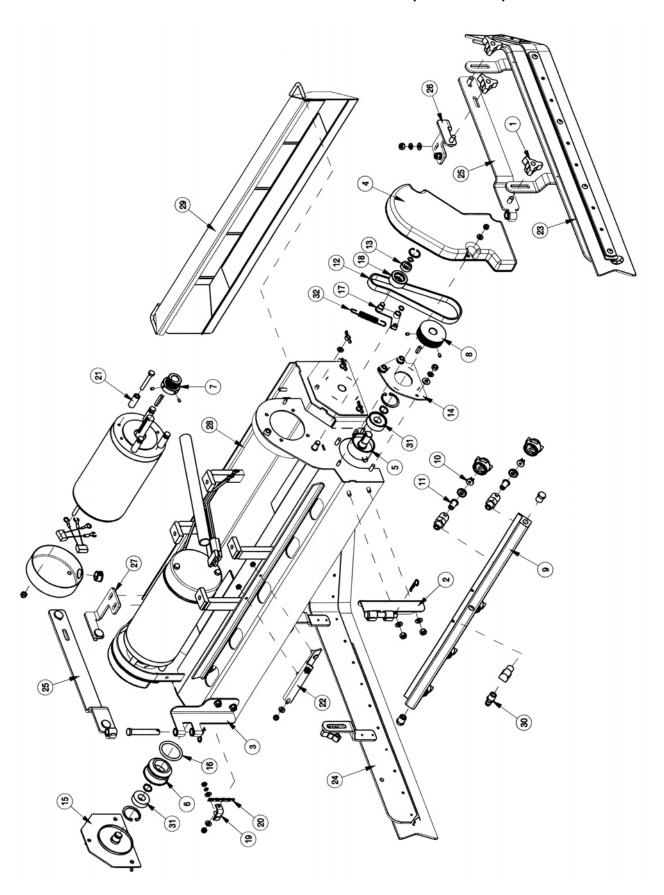


28" CYLINDRICAL SCRUBDECK (ITEMS 33-64)

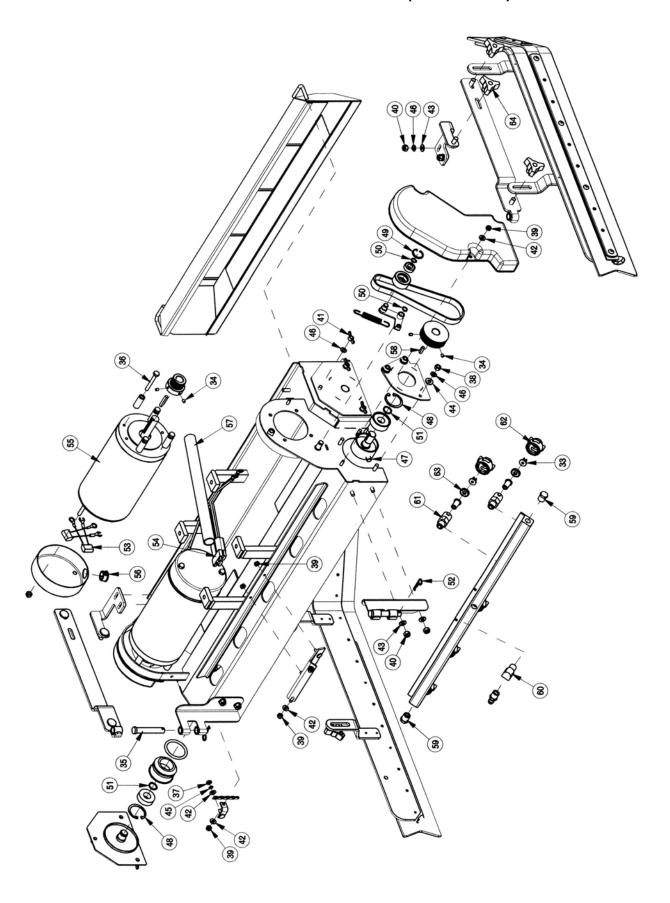


28" CYLINDRICAL SCRUBDECK BOM

32" CYLINDRICAL SCRUBDECK (ITEMS 1-32)



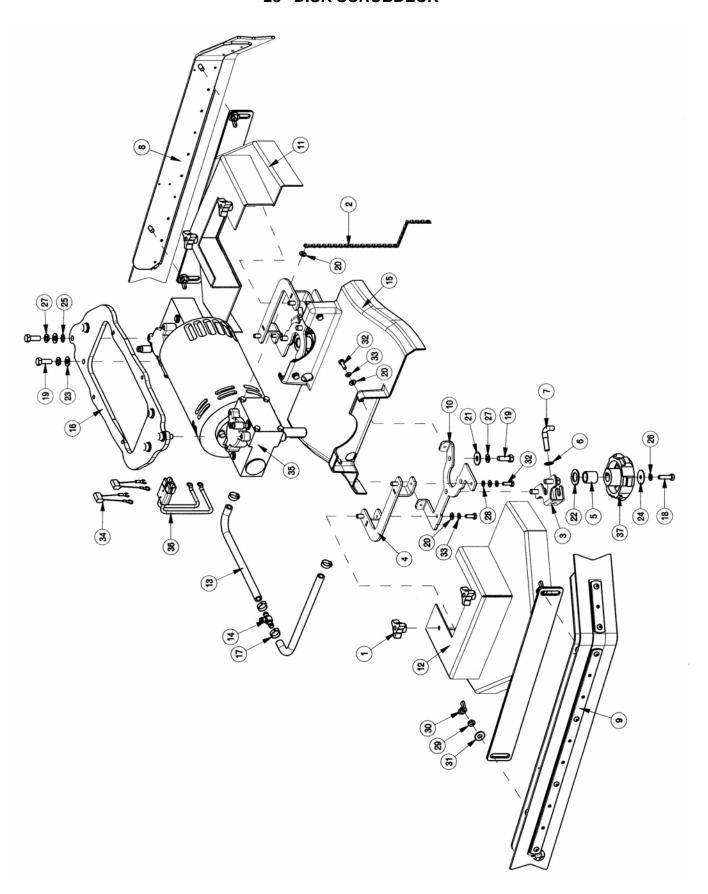
32" CYLINDRICAL SCRUBDECK (ITEMS 33-64)



32" CYLINDRICAL SCRUBDECK BOM

DESCRIPTION ITEM PART NO. REQ BNYLOC 33 450122 2 JMAT RH, SCV2426 34 711103 2 JMAT LH, SCV2426 35 711119 2 JMNT LH, SCV2426 36 711119 2 JMNT LH, SCV2426 36 711119 2 JNDRICAL SCRUBDECK 38 711316 8 JDRICAL SCRUBDECK 38 711316 8 POLY V 39 711350 10 POLY V 44 711504 8 IB WMT 45 711504 8 IB WMT 47 711504 4 WELDML 46 711504 4 KT, CVL. SCRUBDECK 51 711104 4 WELDML 50 </th <th></th> <th></th> <th>BIL</th> <th>BILL OF MATERIAL - 281891</th> <th></th> <th></th> <th>E</th> <th>BILL OF MATERIAL - 281891</th>			BIL	BILL OF MATERIAL - 281891			E	BILL OF MATERIAL - 281891
21018 4 KNOBS-SIDED S/NEWLYCKE 38 4897E2 2 UNIJET SPRAY TIP B803 241544 1 HINGE BRKT WLDMIT TH, SCV2868 34 71103 2 CLEVUS INT/THE X 245 241546 1 HINGE BRKT WLDMIT TH, SCV2868 37 711134 8 BLTCH H, H-40X 245 2510548 2 DERIVEH BLLEY 37 71134 8 BLT-HH 1/4-40X 240 261058 2 DERIVEH BLLEY 37 711350 1 NUT-HEX 1/4-20X 20 261059 2 DERIVEH BULLEY 40 711350 1 NUT-HEX 1/4-20X ST PL 261050 3 SPRAY BAR 40 711350 8 NUT-HEX 1/4-20X ST PL 26105 3 SPRAY BAR 40 711350 8 NUT-HEX 1/4-20X ST PL 26106 3 SPRAY TH F1005 40 711550 8 NUT-HEX 1/4-20X ST PL 26106 3 SPRAY TH F1005 40 711550 9 NUT-HEX 1/4-20X ST PL 26106 3 SPRAY TH F	ITEM	PART NO.	REQ'D		ITEM	PART NO.	REQ'D	DESCRIPTION
241544 1 HINGE BRIT WLDMNT RH, SCV2686 34 71100 8 SCR-SK 10-28 x 35 2810566 1 HINGE BRIT WLDMNT LH, SCV2686 35 711114 8 DELOKEN CYLLINDRICAL SCRUBDECK 37 711314 8 BLT-HH H, MAX 2.0 2810568 2 DRIVEHUB, CYLINDRICAL SCRUBDECK 38 711316 1 NUT, HEX 10-28 TPL 281058 2 DRIVEHUB, CYLINDRICAL SCRUBDECK 38 711316 1 NUT, HEX 10-28 TPL 281058 2 DRIVEN PULLEY 40 711333 8 NUT-HACK 14-208 TPL 281058 1 SPRAY TRY 100 10 NUT HAND CC 14-208 TPL 281059 2 CHECK VALVE 40 711333 8 NUT-HANG 14-208 STPL 281059 2 CHECK VALVE 41 711333 8 NUT-HAND CH-CK-CK-CK-CK-CK-CK-CK-CK-CK-CK-CK-CK-CK-	-	210118	4	KNOB-3 SIDED 5/16 NYLOC	88	450122	8	UNIJET SPRAY TIP 6503
241546 1 HINGE BRAT WIDDMIT LH-SCV2460 35 711119 2 CLEVIS PINITIR X 2-5/8 2501023 2 BELT COVER, CYLINDRICAL SCRUBDECK 36 711214 8 BLT-HH 14-20X 22.00 2501036 2 IDLE HUB, CYLINDRICAL SCRUBDECK 37 711316 8 NUT-HEX 14-00-38 TP. 2501036 2 IDLE HUB, CYLINDRICAL SCRUBDECK 38 711356 8 NUT-HEX 14-00-38 TP. 2501036 2 IDLE HUB, CYLINDRICAL SCRUBDECK 38 711359 9 NUT-HEX 14-00-38 TP. 2501036 3 SPRAY TB. 1005 41 711359 9 NUT-HIN 14-00-38 TP. 250104 3 SPRAY TB. 1005 42 711599 9 NUT-HIN 10-10-10-32 250104 3 SPRAY TB. 1005 42 711590 9 WSR. FLAT 11 4 250104 3 SPRAY TB. 1005 42 711590 9 WSR. FLAT 11 4 250104 3 SPRAY TB. 1005 42 711590 9 WSR. FLAT 11 10 DS 250105	2	241544	,	HINGE BRKT WLDMNT RH, SCV2426	श्र	711003	80	SCR-SK 10-32 x .25
201026 2 BELT COVER, CYLINDRICAL SCRUBDECK 37 711214 8 BLT-HH 1/4-20 X 200 2010364 2 DRIVER HUB, CYLINDRICAL SCRUBDECK 37 711316 1 INTH-HEX 1/4-20 ST PL 2010363 2 OFFSET PULLEY DOLV V 40 711350 10 NIVT NYLOC 16-20 201040 3 DRIVER PULLEY 40 711350 9 NIVT-HEX 1/4-20 ST PL 201040 3 SPRAY TR PI 1005 42 711350 9 NIVT-HEX 1/4-20 ST PL 201040 3 SPRAY TR 1005 42 711350 9 WSR, EAT 4710 201040 3 SPRAY TR 1005 42 711594 9 WSR, EAT 4710 201040 3 SPRAY TR 1005 42 711594 9 WSR, EAT 410 201040 4 SPRAY TR 1005 43 711594 9 WSR, EAT 410 201040 5 CHECK VALVE 44 711594 9 WSR, EAT 410 201040 2 CHECK VALVE	က	241546	,	HINGE BRKT WLDMNT LH, SCV2426	32	711119	8	CLEVIS PIN 7/16 X 2-5/8
201043 2 DRIVE HUB, CYLINDRICAL SCRUBDECK 37 711310 1 NUT, HEX 10-28 ST PL 201054 2 IDEL BUB, CYLINDRICAL SCRUBDECK 38 711318 10 NUT, HEX 10-28 TP 201056 2 IDER HUB, CYLINDRICAL SCRUBDECK 38 711318 10 NUT, HEX 10-28 TP 201056 3 SPRAY BAR 41 711389 6 NUT, HEX 10-20 STL ZINC 201056 3 SPRAY DE 1005 42 711539 6 NUT, AVIOC 11-20 201056 3 SPRAY TP 11005 42 711539 6 NUT, AVIOC 11-20 201056 3 SPRAY TP 11005 42 711536 6 NUT, AVIOC 11-20 20105 2 DERING SPL ART 44 711536 6 NUT, AVIOC 11-20 20105 2 DERING SPART 44 711546 8 NUT, AVIOC 11-20 2010 2 DERING SPART 44 711546 8 NUT, AVIOC 11-20 2010 2 DERING SPART	4	281023	2		88	711214	8	BLT-HH 1/4-20 X 2.00
2810368 2 DLE HUB, CYLINDRICAL SCRUBDECK 38 711819 8 NUT-HEX 14-20 ST PL 2810368 2 OFSTRAULLEY POLLY V 39 711839 6 NUT-HEX 14-20 ST PL 281036 1 SPRAY BAR 41 711839 6 NUT-WILOC 14-20 ST LINC 281040 3 SPRAY AT IP 1005 42 711539 9 WSR-FLAT 410 281040 5 CHECK VALVE 4 711539 9 WSR-FLAT 410 SS 281043 5 CHECK VALVE 4 711539 9 WSR-FLAT 410 SS 281043 5 CHECK VALVE 4 711539 9 WSR-FLAT 410 SS 281058 2 BELT FOLKY 13° 4 71154 4 WSR-FLAT 410 SS 281058 2 BERAING 38° RADIAL 46 71154 4 RST-ALT 410 SS 281058 2 CHECK VALVE 4 71154 4 RST-ALT 410 SS 281059 2 CHENDEDECK 4 71154	ഹ	281034	2	DRIVE HUB, CYLINDRICAL SCRUBDECK	37	711310	-	NUT, HEX 10-32 ST PL
2810056 2 OFFSET PULLEY POLY V 38 711530 10 INTAVLOC 16-32 2810087 2 DRIVEN PULLEY 40 711539 8 NUT-WING 14-20 2810080 3 SPRAY TRI 1005 42 711539 9 WSR, FLATHO 10 12 281040 3 SPRAY TRI 1005 42 711539 9 WSR, FLATHO 10 12 281041 5 CHECK VALVE 42 711539 9 WSR, FLATHO 11 14 281052 2 JABELT POLY VI 9" 4 711534 1 WSR, FLATHO 10 ST 281053 2 JABELT POLY VI 9" 4 711534 4 RCLECK PALT 14 ID SS 281054 2 JABELT POLY VI 9" 4 711534 4 RCLECK PALT 14 ID SS 281055 2 BRUSH DRIVE HIB WMT 4 711546 4 RCLECK PALT 14 ID SS 28155 2 CARNING SIR RAW WELDMT 4 711546 4 RCLECK PALT 14 ID SS 28155 2 CARLING SIR RAW WELDMT	9	281035	2	IDLE HUB, CYLINDRICAL SCRUBDECK	88	711316		NUT-HEX 1/4-20 ST PL
281037 2 DRIVER PULLEY 40 711879 8 NUT-NYLOC 1/4-20 281038 1 SPRAY BRAR 41 711839 6 NUT-NYLOC 1/4-20 281041 5 CHECK VALVE 42 711859 9 WSR-FLAT#10 DSS 281043 5 CHECK VALVE 43 711854 8 WSR-FLAT#10 DSS 281043 2 JERTIN CAPALVE 44 711854 9 WSR-FLAT#10 DSS 281046 2 JERTIN CAPALVE 44 711854 1 WSR-FLAT#10 DSS 281652 2 JERTIN CAPALVE 47 71156 6 WSR-FLAT#10 DSS 281654 2 JERTIN CAPALAT 46 711704 4 RCAPALAT 281656 2 JERSHAFY WAT 47 711765 4 RCAPALAT 281656 2 JERTIN DLR 48 711704 4 RCAPALAT 281657 1 DRAG CHAIN, CYL. SCRUBDECK 51 711724 4 ADL PIN, 3	7	281036	2	OFFSET PULLEY POLY V	æ	711350	10	NUT NYLOC 10-32
281088 1 SPRAY BAR 41 711899 6 NUT-WING 1/4-20 STL ZINC 281040 3 SPRAY TIP 10005 42 711503 9 WASR-FLAT 1/4 ID SS 281040 5 CHECK VALVE 43 711505 6 WASR-FLAT 1/4 ID SS 281058 2 JABELT (POLY V.) 18" 44 711505 6 WASR-FLAT 1/4 ID SS 281058 2 BERAING 3/8" RADIAL 46 711505 6 WASR-FLAT 1/4 ID SS 281058 2 BERAING 3/8" RADIAL 46 711504 16 WASR-FLAT 1/4 ID SS 281059 2 DAING 1.86 X ZAOX 7.188 46 711704 4 RECLATA III ID SS 281549 2 CARING 1.86 X ZAOX 7.188 46 711704 4 RETAINING RING, INT 13T 281559 1 DRAG CHANN BRYL, CYL. SCRUBDECK 51 711724 4 56 717404 4 56 7171704 1 7 717704 1 717704 1 717704 1 7 <th>œ</th> <td>281037</td> <td>2</td> <td>DRIVEN PULLEY</td> <td>40</td> <td>711373</td> <td>8</td> <td>NUT-NYLOC 1/4-20</td>	œ	281037	2	DRIVEN PULLEY	40	711373	8	NUT-NYLOC 1/4-20
281040 3 SPRAY TIP 11005 42 711504 9 WSR, FLAT #10 281041 5 CHECK VALVE 43 711504 8 WSR-FLAT 14I DSS 281058 2 J SELT (POLY VIS** 44 711504 1 WSR-FLAT 14I DSS 281058 2 J SERTING SIP* RADIAL 49 711504 16 WSR-FLAT 14I 281519 2 DLE SHAFT WMT 41 711504 16 WSR-HELICAL #10 281519 2 DARING 1,68 X 2,00 X .188 48 711701 4 ROLL PIN, 38 x 34 281519 2 DARING 1,68 X 2,00 X .188 48 711701 4 ROLL PIN, 38 x 34 281519 2 DARIONER ARM WELDMT 49 711701 4 ROLL PIN, 38 x 34 281519 2 DARING HANDONER 49 711701 4 SICH PIN, 11, 11 281568 1 DRAG CHAIN BRYT, CYL, SCRUBDECK 50 711724 4 5167 PIN, 11, 11 281569 1 DRAG CHAIN BRYT, CYL	o	281038	-	SPRAY BAR	41	711389	9	NUT-WING 1/4-20 STL ZINC
281041 5 CHECK VALVE 43 711504 8 WSR-FLAT 1/4 ID SS 281053 2 J BELT (POLY V) 18" 44 711505 6 WSR-FLAT 1/4 281058 2 J BERTIN GALVE 45 711549 16 WSR-FLAT 1/4 28150 2 BERNIGA SIR" RADIAL 47 711549 16 WSR-FLELCAL 1/4 281519 2 DCRING LARE X 2.00X .188 46 711701 4 RCLIL DILL DILL LING 281519 2 DCRING LARE WWILL DMT 49 711704 4 RCLIL DILL JAB X 3/4 281519 2 DCRING LARE WWILL DMT 49 711704 4 RETAINING RING LING STERNAL 281540 1 DRAG CHAIN SKTT, CYL. SCRUBDECK 50 711724 4 SIG" RETAINING RING STERNAL 281566 1 DRAG CHAIN SKTT, CYL. SCRUBDECK 52 714016-1 4 CAP. 15 MING RING STERNAL 281660 1 SPRAY HEAD MTG BRKT 53 744016-1 4 AP. 15 MING STERNAL 281	10	281040	က	SPRAY TIP 11005	45	711503	6	WSR, FLAT#10
281063 2 JBELT (POLY V) 18" 44 711505 6 WSR-FLAT 1/4 281058 2 BEARING 3/8" RADIAL 45 711543 1 WSR-HELICAL 1/4 281056 2 IDLE SHAFT WMT 47 711549 16 WSR-HELICAL 1/4 281512 2 IDLE SHAFT WMT 47 711579 4 RCLUL PIN, 3/8 x 3/4 281549 2 IDLE SHAFT WMT 49 711724 4 RCLUL PIN, 3/8 x 3/4 281549 2 ITRISIONER ARM WELDMT 49 711724 4 RETAINING RING, INT 1:3T 281549 2 BELT IDLER 50 711724 4 SIGE TAINING RING, INT 1:3T 281557 1 DRAG CHAIN, CYL. SCRUBDECK 51 711724 4 SIGE TAINING RING, EXTERNAL 281568 1 DRAG CHAIN, CYL. SCRUBDECK 53 744016-1 4 CAPTER PIN-HAIR #13 281568 1 DRAG CHAIN, CYL. SCRUBDECK 53 744016-1 4 CAPTER PIN-HAIR #13 281568 <t< th=""><th>11</th><td>281041</td><td>2</td><td>CHECK VALVE</td><td>43</td><td>711504</td><td>80</td><td>WSR-FLAT 1/4 ID SS</td></t<>	11	281041	2	CHECK VALVE	43	711504	80	WSR-FLAT 1/4 ID SS
281058 2 BEARING 3/8" RADIAL 45 711543 1 WSR-HELICAL #10 281056 2 BRUSH DRIVE HUB WMT 46 711544 16 WSR-HELICAL #10 281519 2 DLE SHAFT WMT 47 711676 4 ROLL PINI, 38 x. 3/4 281519 2 O-RING 1,82 x 2.00 x. 188 48 711704 4 ROLL PINI, 38 x. 3/4 281519 2 C-RING 1,82 x 2.00 x. 188 711704 4 RETAINING RING, EXTERNAL 281549 2 TRISIONER ARM WELDMT 50 711724 4 SIGET TAINING RING, EXTERNAL 281557 1 DRAG CHAIN, CYL. SCRUBDECK 51 711725 4 5/8" RETAINING RING, EXTERNAL 281568 1 DRAG CHAIN, CYL. SCRUBDECK 52 714804 4 5/8" RETAINING RING, EXTERNAL 281568 1 DRAG CHAIN, CYL. SCRUBDECK 52 744046 4 5/8" RETAINING RING, EXTERNAL 281568 1 SPRAY HEAD MTG BRASY RIV, SCV 28/32 53 744046 1 APP 14/8	12	281053	2	J BELT (POLY V) 18"	4	711505	9	WSR-FLAT 1/4
281505 2 BRUSH DRIVE HUB WMT 46 71544 16 WSR-HELICAL 1/4 281512 2 IDLE SHAFT WMT 47 711576 4 ROLL PIN, 3/8 x 3/4 281519 2 O-RING 162 X 2.00 X, 188 48 711704 4 RETAINING RING, INT 1.37 281549 2 TENSIONER ARM WELDMT 49 711704 4 RETAINING RING, EXTERNAL 281548 2 TENSIONER ARM WELDMT 50 711724 4 SINTERNAL RETAINING RING, EXTERNAL 281558 1 DRAG CHAIN, CYL, SCRUBDECK 52 711724 4 516" RETAINING RING, EXTERNAL 281568 1 DRAG CHAIN, CYL, SCRUBDECK 52 714016-1 4 CAP, 15MICROF ARAD SCRUBL 281569 1 SPRAY HEAD MTG BRKT 53 744016-1 4 CAP, 15MICROF ARAD SCRUBL 281690 1 SIDE SQUEEGE WIPE ASSY LH, SCV 28/32 55 748046 1 MOTOR 1 HP, 38V, 18CV 28/32 5 748046 1 MOTOR 1 HP, 38V, 18CV 28/32 5 748046 2	13	281058	2	BEARING 3/8" RADIAL	42	711543	-	WSR - HELICAL #10
281512 2 IDLE SHAFT WMT 47 711678 4 ROLL PIN, 318 x 3,4 281519 2 O-RING 1.82 X 2.00 X.188 48 711701 4 RETAINING RING, INT 1.37 281544 2 TENSIONER ARM WELDMT 49 711704 2 INTERNAL RETAINING RING, EXTERNAL 281548 2 BELT IDLER 50 711724 4 38" RETAINING RING, EXTERNAL 281557 1 DRAG CHAIN, CYL. SCRUBDECK 51 711724 4 38" RETAINING RING, EXTERNAL 281558 1 DRAG CHAIN, CYL. SCRUBDECK 52 714016-1 4 CAP : IMICROFARAD 5/108-1/4FORK 281558 1 DRAG CHAIN, CYL. SCRUBDECK 53 744016-1 4 CAP : IMICROFARAD 5/108-1/4FORK 281556 1 SPRACH HAD MTG BRKT 50 748016-1 1 CAP : IMICROFARAD 5/108-1/4FORK 281566 1 SISSOUEGEE WIPE ASSY RH, SCV 28/32 55 748046 1 CAP : IMICROFARAD 5/14FORK 281566 1 SISSOUEGEE WIPE ASSY RH, SCV 28/32 56 748	14	281505	2	BRUSH DRIVE HUB WMT	46	711544	16	WSR-HELICAL 1/4
281519 2 O-RING 1.82 X 2.00 X .188 48 711704 4 RETAINING RING, INT 1.37 281549 2 TENSIONER ARM WELDMT 49 711704 2 INTERNAL RETAINING RING, EXTERNAL L. 281548 2 RELT IDLER 49 711724 4 3/8" RETAINING RING, EXTERNAL L. 281558 1 DRAG CHAIN, CYL. SCRUBDECK 52 711826 4 5/8" RETAINING RING, EXTERNAL L. 281558 1 DRAG CHAIN, CYL. SCRUBDECK 52 714806 2 COTTER PIN-HAIR #18 281558 1 DRAG CHAIN, CYL. SCRUBDECK 53 744016-1 4 CAP. 15 MICROFARAD \$1/4FORK 281559 1 SIDE SQUEGEE WIPE ASSY RH, SCV 28/32 55 748046 1 WIRE ASSY, BRUSH DECK CYLINDER 281656 2 174016-1 4 CAP. 14PC SQUEGEE WIPE ASSY RH, SCV 28/32 56 748046 1 WIRE ASSY, BRUSH DECK CYLINDER 281666 1 SIDE SQUEGEE WIPE ASSY RH, SCV 28/32 56 748046 1 CAP. 14PC CO 2103 I.D. 26.C. 281666 <td< th=""><th>15</th><td>281512</td><td>2</td><td>IDLE SHAFT WMT</td><td>47</td><td>711676</td><td>4</td><td>ROLL PIN, 3/8 x 3/4</td></td<>	15	281512	2	IDLE SHAFT WMT	47	711676	4	ROLL PIN, 3/8 x 3/4
281544 2 TENSIONER ARM WELDMT 49 711704 2 INTERNAL RETAINING RING, EXTERNAL 281548 2 BELT IDLER 50 711724 4 3/8" RETAINING RING, EXTERNAL 281557 1 DRAG CHAIN BRKT, CYL. SCRUBDECK 52 711808 2 COTTER PIN-HAIR #13 281568 1 DRAG CHAIN, CYL. SCRUBDECK 53 744016-1 4 5/8" RETAINING RING, EXTERNAL 281568 8 MOTOR STANDOFF - CYL SCRUB DECK 53 744016-1 4 CAP - 15 MICROF ARAD SYING, EXTERNAL 281660 1 SPRAY HEAD MTG BRKT 54 744016-1 4 CAP - 15 MICROF ARAD SYING, EXTERNAL 281657 1 SIDE SQUEEGE WIPE ASSY RH, SCV 28/32 55 748048 2 MOTOR 1 HP, 38V, 1800RPM 281657 2 UPPER SQUEE BRK'T WMT, SCV 28/32 55 748048 2 MOTOR 1 HP, 38V, 1800RPM 281666 1 SIDE SQUEE SUPPORT LH 58 76043 2 KEY, 3/16 X. 47/1 281686 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 </th <th>16</th> <th>281519</th> <th>2</th> <th>O-RING 1.62 X 2.00 X .188</th> <th>48</th> <th>711701</th> <th>4</th> <th>RETAINING RING, INT 1.37</th>	16	281519	2	O-RING 1.62 X 2.00 X .188	48	711701	4	RETAINING RING, INT 1.37
281548 2 BELT IDLER 4 281557 1 DRAG CHAIN BRKTT, CYL. SCRUBDECK 51 711725 4 281558 1 DRAG CHAIN, CYL. SCRUBDECK 52 711808 2 281598 8 MOTOR STANDOFF - CYL SCRUB DECK 53 744016-1 4 281596 1 SPRAY HEAD MTG BRKT 53 744016-1 4 281606 1 SPRAY HEAD MTG BRKT 54 748046 1 281851 1 SIDE SQUEGEE WIPE ASSY RH, SCV 28/32 55 748048 2 281866 2 UPPER SQUEGEE WIPE ASSY RH, SCV 28/32 56 748141 1 281868 1 CYL. DECK SIDE SQUEE SUPPORT LH 58 780043 2 281868 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 828161 2 281892 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 828106 1 281906 1 SZTCYLINDRICAL SCRUBDECK WELDMENT 61 831306 5 281906	11	281544	2	TENSIONER ARM WELDMT	49	711704	2	
281557 1 DRAG CHAIN BRKT, CYL. SCRUBDECK 51 711725 4 281558 1 DRAG CHAIN, CYL. SCRUBDECK 52 711808 2 281598 8 MOTOR STANDOFF - CYL SCRUB DECK 53 744016-1 4 281696 1 SPRAY HEAD MTG BRKT 54 748046 1 281667 1 SIDE SQUEGEE WIPE ASSY RH, SCV 28/32 55 748048 2 281866 2 UPPER SQUEGEE WIPE ASSY RH, SCV 28/32 56 748141 1 281866 2 UPPER SQUEGE BRKT WMT, SCV 28/32 56 748141 1 281868 1 CYL. DECK SIDE SQUEE SUPPORT LH 58 76043 2 281889 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 2 281892 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 5 281906 1 CYL. DECK SIDE SQUEE SUPPORT RH 50 83140 5 281906 1 CYL. DECK SIDE SQUEE SUPPORT RH 60 83	18	281548	2	BELT IDLER	20	711724	4	3/8" RETAINING RING, EXTERNAL
281558 1 DRAG CHAIN, CYL. SCRUBDECK 52 711808 2 281598 8 MOTOR STANDOFF - CYL SCRUB DECK 53 744016-1 4 281606 1 SPRAY HEAD MTG BRKT 54 748046 1 281851 1 SIDE SQUEGGE WIPE ASSY LH, SCV 28/32 55 748048 2 281856 2 UPPER SQUEGE WIPE ASSY RH, SCV 28/32 57 748141 1 281868 1 CYL. DECK SIDE SQUEE SUPPORT LH 58 760043 2 281869 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 2 281889 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 2 281980 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 2 281980 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 2 281906 1 DEBRIS BOX WMT, CYLINDRICAL SCRUBDECK %ELDMENT 60 833140 5 2829064 1 FITTING BRASS - 3/8 DBL BARB X 1/4MPT	19	281557	-	DRAG CHAIN BRK'T, CYL. SCRUBDECK	51	711725	4	5/8" RETAINING RING, EXTERNAL
281598 8 MOTOR STANDOFF - CYL SCRUB DECK 53 744016-1 4 281606 1 SPRAY HEAD MTG BRKT 54 748046 1 281851 1 SIDE SQUEGEE WIPE ASSY LH, SCV 28/32 55 748048 2 281857 1 SIDE SQUEGEE WIPE ASSY RH, SCV 28/32 56 748122 2 281868 2 UPPER SQUEE BRKT WMT, SCV 28/32 57 748141 1 281868 1 CYL. DECK SIDE SQUEE SUPPORT LH 58 76043 2 281869 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 2 281892 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 2 281982 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 2 281982 1 32" CYLINDRICAL SCRUBDECK WELDMENT 60 831306 1 281906 1 FITTING BRASS - 3/8 DBL BARB X 1/4MPT 62 833141 5 382582 4 BALL BEARING, RADIAL 5/8" 64	20	281558	-	DRAG CHAIN, CYL. SCRUBDECK	25	711808	2	COTTER PIN-HAIR #13
281606 1 SPRAY HEAD MTG BRKT 54 748046 1 281851 1 SIDE SQUEEGEE WIPE ASSY LH, SCV 28/32 55 748122 2 281857 1 SIDE SQUEGEE WIPE ASSY RH, SCV 28/32 57 748141 1 281868 2 UPPER SQUEE BRK'T WMT, SCV 28/32 57 748141 1 281868 1 CYL. DECK SIDE SQUEE SUPPORT LH 58 760043 2 281869 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 2 281892 1 32" CYLINDRICAL SCRUBDECK WELDMENT 60 831306 1 281906 1 DEBRIS BOX WMT, CYLINDRICAL SCRUBDECK S2" 61 833140 5 281906 1 FITTING BRASS - 3/8 DBL BARB X 1/4MPT 62 833141 5 383582 4 BALL BEARING, RADIAL 5/8" 64 210118Y 2 430051 2 RTURN SPRING-3.00" 64 210118Y 2	21	281598	80	MOTOR STANDOFF - CYL SCRUB DECK	83	744016-1	4	CAP .15 MICROFARAD 5/16R-1/4FORK
281851 1 SIDE SQUEEGEE WIPE ASSY LH, SCV 28/32 55 748048 2 281857 1 SIDE SQUEGEE WIPE ASSY RH, SCV 28/32 56 748122 2 281866 2 UPPER SQUEGE BRK'T WMT, SCV 28/32 57 748141 1 281868 1 CYL. DECK SIDE SQUEE SUPPORT LH 58 76043 2 281869 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 2 281892 1 CYL. DECK SIDE SQUEE SUPPORT RH 60 831306 1 281906 1 DEBRIS BOX WMT, CYLINDRICAL SCRUBDECK S2" 61 833140 5 281906 1 DEBRIS BOX WMT, CYLINDRICAL SCRUBDECK S2" 61 833140 5 3820264 1 FITTING BRASS - 3/8 DBL BARB X 1/4MPT 62 833141 5 4383582 4 BALL BEARING, RADIAL 5/8" 64 210118Y 2 430051 2 RETURN SPRING-3.00" 64 210118Y 2	ង	281606	-	SPRAY HEAD MTG BRKT	24	748046	-	WIRE ASSY, BRUSH DECK CYLINDER
281857 1 SIDE SQUEGEE WIPE ASSY RH, SCV 28/32 56 748122 2 281866 2 UPPER SQUEE BRKT WMT, SCV 28/32 57 748141 1 281868 1 CYL. DECK SIDE SQUEE SUPPORT LH 58 760043 2 281869 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 2 281892 1 CYL. DECK SIDE SQUEE SUPPORT RH 60 831306 1 281906 1 DEBRIS BOX WMT, CYLINDRICAL SCRUBDECK 32" 61 833140 5 320264 1 FITTING BRASS - 3/8 DBL BARB X 1/4MPT 62 833141 5 4383582 4 BALL BEARING, RADIAL 5/8" 64 210118Y 2	ន	281851	-	SIDE SQUEEGEE WIPE ASSY LH, SCV 28/32	22	748048	8	MOTOR 1 HP, 36V, 1800RPM
281866 2 UPPER SQUEE BRK'T WMT, SCV 28/32 57 748141 1 281868 1 CYL. DECK SIDE SQUEE SUPPORT LH 58 760043 2 281869 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 2 281892 1 32" CYLINDRICAL SCRUBDECK WELDMENT 60 831306 1 281906 1 DEBRIS BOX WMT, CYLINDRICAL SCRUBDECK 32" 61 833140 5 320264 1 FITTING BRASS - 3/8 DBL BARB X 1/4MPT 62 833141 5 383582 4 BALL BEARING, RADIAL 5/8" 63 833142 5 430051 2 RETURN SPRING-3.00" 64 210118Y 2	24	281857	-	SIDE SQUEGEE WIPE ASSY RH, SCV 28/32	26	748122	2	BUSHING, HEYCO 2103 I.D .625.
281888 1 CYL. DECK SIDE SQUEE SUPPORT LH 58 780043 2 281889 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 2 281892 1 32" CYLINDRICAL SCRUBDECK WELDMENT 60 831306 1 281906 1 DEBRIS BOX WMT, CYLINDRICAL SCRUBDECK 32" 61 833140 5 320264 1 FITTING BRASS - 3/8 DBL BARB X 1/4MPT 62 833141 5 383582 4 BALL BEARING, RADIAL 5/8" 63 833142 5 430051 2 RETURN SPRING-3.00" 64 210118Y 2	82	281866	2	UPPER SQUEE BRK'T WMT, SCV 28/32	22	748141	-	CABLE WRAP, 11"
281889 1 CYL. DECK SIDE SQUEE SUPPORT RH 59 829619 2 281892 1 32" CYLINDRICAL SCRUBDECK WELDMENT 60 831306 1 281906 1 DEBRIS BOX WMT, CYLINDRICAL SCRUBDECK 32" 61 833140 5 320264 1 FITTING BRASS - 3/8 DBL BARB X 1/4MPT 62 833141 5 383582 4 BALL BEARING, RADIAL 5/8" 63 833142 5 430051 2 RETURN SPRING-3.00" 64 210118Y 2	82	281868	-	CYL. DECK SIDE SQUEE SUPPORT LH	88	760043	2	KEY, 3/16 X .675 L
281892 1 32" CYLINDRICAL SCRUBDECK WELDMENT 60 831306 1 281906 1 DEBRIS BOX WMT, CYLINDRICAL SCRUBDECK 32" 61 833140 5 320264 1 FITTING BRASS - 3/8 DBL BARB X 1/4MPT 62 833141 5 383582 4 BALL BEARING, RADIAL 5/8" 63 833142 5 430051 2 RETURN SPRING-3.00" 64 210118Y 2	27	281869	-	CYL. DECK SIDE SQUEE SUPPORT RH	28	829619	8	END PLUG
281906 1 DEBRIS BOX WMT, CYLINDRICAL SCRUBDECK 32" 61 833140 5 320264 1 FITTING BRASS - 3/8 DBL BARB X 1/4MPT 62 833141 5 383582 4 BALL BEARING, RADIAL 5/8" 63 833142 5 430051 2 RETURN SPRING-3.00" 64 210118Y 2	83	281892	-	32" CYLINDRICAL SCRUBDECK WELDMENT	8	831306	-	FITTING 90 STREET BRASS 1/4×1/4
320264 1 FITTING BRASS - 3/8 DBL BARB X 1/4MPT 62 833141 5 383582 4 BALL BEARING, RADIAL 5/8" 63 833142 5 430051 2 RETURN SPRING-3.00" 64 210118Y 2	8	281906	-	DEBRIS BOX WMT, CYLINDRICAL SCRUBDECK 32"	61	833140	r.	BODY INLET CONNECTOR
383582 4 BALL BEARING, RADIAL 5/8" 63 833142 5 430051 2 RETURN SPRING-3.00" 64 210118Y 2	8	320264	-	FITTING BRASS - 3/8 DBL BARB X 1/4MPT	62	833141	2	CAP
430051 2 RETURN SPRING-3.00" 64 210118Y 2	31	383582	4		83	833142	2	GASKET CAP
	32	430051	2	RETURN SPRING-3.00"	2	210118Y	2	KNOB-3 SIDED 5/16 NYLOC YELLOW

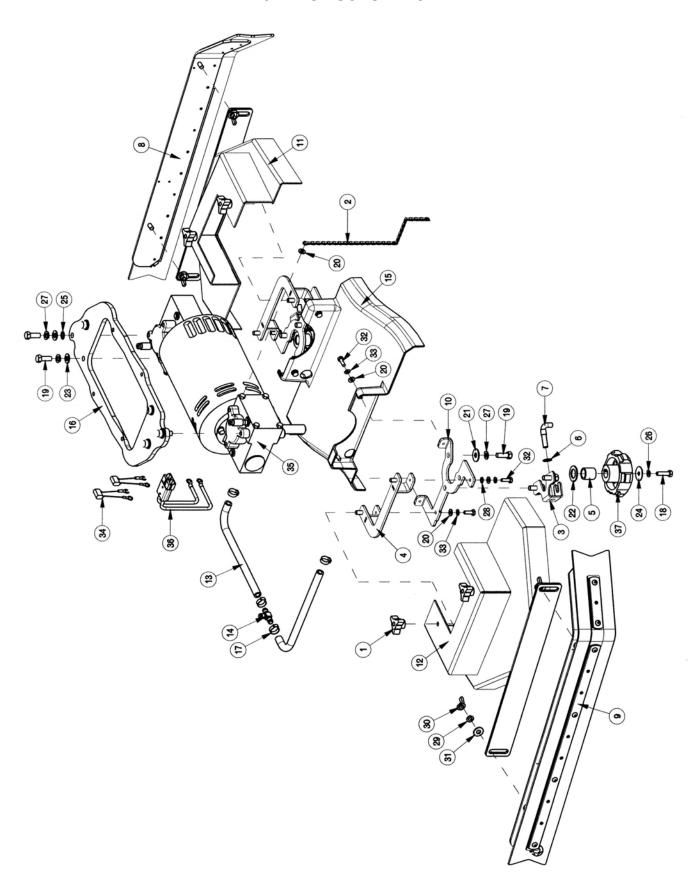
28" DISK SCRUBDECK



28" DISK SCRUBDECK BOM

			LL OF MATERIAL - 281870
ITEM	PART NO.	REQ'D	DESCRIPTION
1	210118	4	KNOB-3 SIDED 5/16 NYLOC
2	241628	1	DRAG CHAIN ASSY, DISK SCRUBDECK SCV24/26
3	241653	2	WATER FEED BRKT, DISK, SCV24/26
4	241662	2	COVER MNT BRK'T, SCV 24/26 ASSY
5	281611	2	HUB-SCRUB SPACER TUBE
6	281633	2	SPEED NUT - 3/8"
7	281634	2	DISK SOLUTION FEED ASSY
8	281875	1	SIDE SQUEGEE WIPE ASSY RH, SCV 24/26
9	281878	1	SIDE SQUEEGEE WIPE ASSY LH, SCV 24/26
10	281883	2	MOUNTING BRACKET, MOTOR COVER
11	281874	1	DISK DECK COVER RH, SCV 24/26
12	281871	1	DISK DECK COVER LH, SCV 24/26
13	320253	2	HOSE-WIRE REINF 3/8 X 14"
14	320266	1	FITTING BRASS TEE DBL 3/8 BARB
15	320928	1	DECK COVER, 28" DISK
16	320929	1	DISK SCRUBDECK MNTG PLATE, 28'
17	450076	4	CRIMP CLAMP SS 185R
18	711231	2	BLT-HH 5/16-18X1.25 ST PL
19	711242	12	BLT-HEX 3/8 -16X1.00 ZP
20	711504	5	WSR-FLAT 1/4 ID SS
21	711507	6	WSR-FLAT .37 X 1.12 X .06
22	711512	2	WSR-FLAT .75X1.37X.08
23	711515	6	WSR-FLAT .406 X .812 X .0625
24	711516	2	WSR- FLAT .31 X 1.25 X .05
25	711539	2	WSR-EXTERNAL LOCK 3/8
26	711545	2	WSR-HELICAL 5/16
27	711546	12	WSR-HELICAL 3/8
28	711554	2	WSR-INTERNAL LOCK 1/4 ID
29	712140	4	WSR-HELICAL 5/16 SS
30	712157	4	NUT- WING 5/16-18 SS
31	712301	4	WSR-FLAT .87 X .38 X .06
32	712562	4	BOLT-HH 1/4-20X3/4 SS
33	712758	4	WSR-HELICAL 1/4 SS
34	744016-1	2	CAP .15 MICROFARAD 5/16R-1/4FORK
35	748003	1	MOTOR, 28" DUAL RIGHT ANGLE DRIVE
36	748077	1	WIRE ASSY, BRUSH DECK DISK
37	3312402	2	HUB-SCRUB BRUSH DRIVE

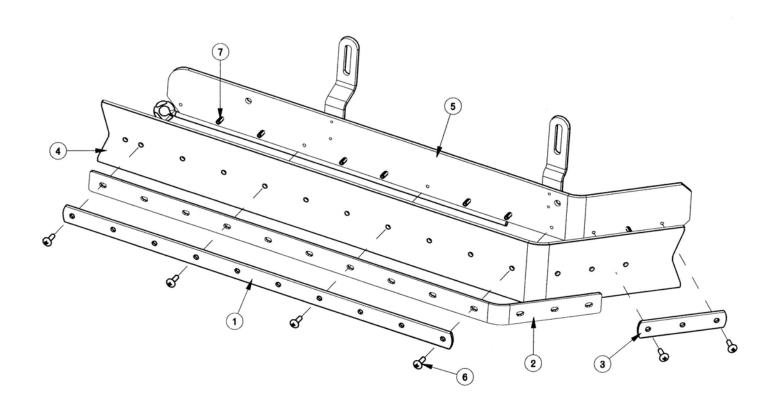
32" DISK SCRUBDECK



32" DISK SCRUBDECK BOM

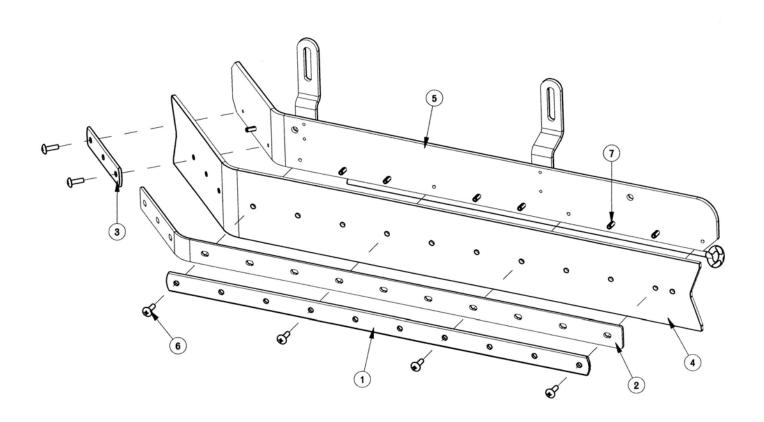
		BILL	OF MATERIAL - 281884
ITEM	PART NO.	REQ'D	DESCRIPTION
1	210118	4	KNOB-3 SIDED 5/16 NYLOC
2	241628	1	DRAG CHAIN ASSY, DISK SCRUBDECK SCV24/26
3	241653	2	WATER FEED BRKT, DISK, SCV24/26
4	241662	2	COVER MNT BRK'T, SCV 24/26 ASSY
5	281611	2	HUB-SCRUB SPACER TUBE
6	281633	2	SPEED NUT - 3/8"
7	281634	2	DISK SOLUTION FEED ASSY
8	281875	1	SIDE SQUEGEE WIPE ASSY RH, SCV 24/26
9	281878	1	SIDE SQUEEGEE WIPE ASSY LH, SCV 24/26
10	281883	2	MOUNTING BRACKET, MOTOR COVER
11	281885	1	DISK DECK COVER RH 32", SCV 28/32
12	281887	1	DISK DECK COVER LH 32", SCV 28/32
13	320253	2	HOSE-WIRE REINF 3/8 X 14"
14	320266	1	FITTING BRASS TEE DBL 3/8 BARB
15	320857	1	DECK COVER, 32" DISK
16	320859	1	DISK SCRUBDECK MNTG PLATE, 32"
17	450076	4	CRIMP CLAMP SS 185R
18	711231	2	BLT-HH 5/16-18X1.25 ST PL
19	711242	12	BLT-HEX 3/8 -16X1.00 ZP
20	711504	9	WSR-FLAT 1/4 ID SS
21	711507	6	WSR-FLAT .37 X 1.12 X .06
22	711512	2	WSR-FLAT .75X1.37X.08
23	711515	6	WSR-FLAT .406 X .812 X .0625
24	711516	2	WSR- FLAT .31 X 1.25 X .05
25	711539	2	WSR-EXTERNAL LOCK 3/8
26	711545	2	WSR-HELICAL 5/16
27	711546	12	WSR-HELICAL 3/8
28	711554	2	WSR-INTERNAL LOCK 1/4 ID
29	712140	4	WSR-HELICAL 5/16 SS
30	712157	4	NUT- WING 5/16-18 SS
31	712301	4	WSR-FLAT .87 X .38 X .06
32	712562	8	BOLT-HH 1/4-20X3/4 SS
33	712758	8	WSR-HELICAL 1/4 SS
34	744016-1	2	CAP .15 MICROFARAD 5/16R-1/4FORK
35	748033	1	MOTOR, 32" DUAL RIGHT ANGLE
36	748077	1	WIRE ASSY, BRUSH DECK DISK
37	3312402	2	HUB-SCRUB BRUSH DRIVE

CYLINDRICAL SCRUBDECK SIDE SQUEEGEE (LEFT SIDE)



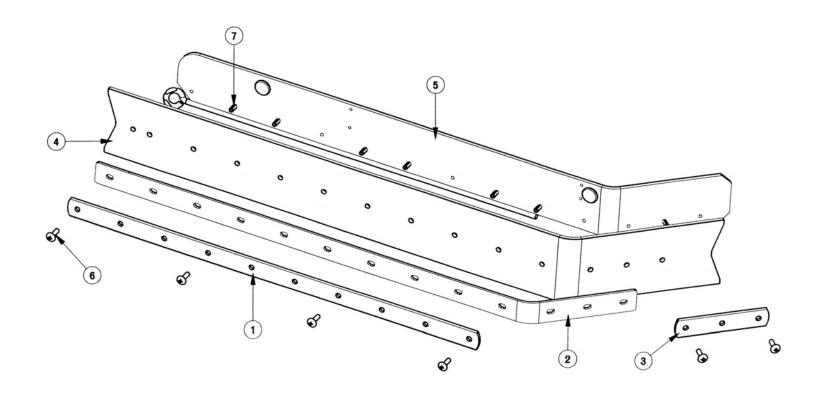
		BILL	OF MATERIAL - 281851
ITEM	PART NO.	REQ'D	DESCRIPTION
1	241679	1	LONG RETAINER, SIDE SQ SCV2426
2	281855	1	BACKER BLADE, LONG SCV 2832
3	281856	1	SHORT RETAINER, SIDE SQ SCV2426
4	281859	1	SIDE SQUEEGEE BLADE LINATEX, SCV 2832
5	281860	1	DISK SQUEGEE BRKT WMT LH,SCV 28/32
6	710154	6	SCR-MC TR HD 10-32 X .625 SS
7	711622	7	ROLL PIN 3/16"X 5/8"

CYLINDRICAL SCRUBDECK SIDE SQUEEGEE (RIGHT SIDE)



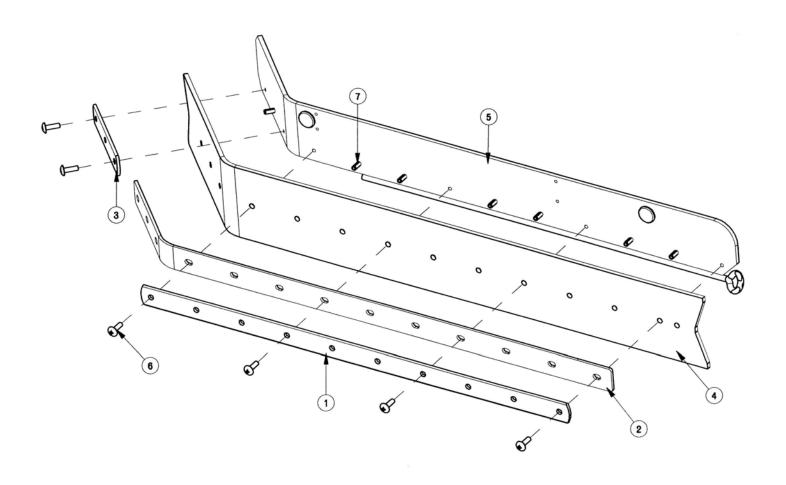
		BILL	OF MATERIAL - 281857
ITEM	PART NO.	REQ'D	DESCRIPTION
1	241679	1	LONG RETAINER, SIDE SQ SCV2426
2	281855	1	BACKER BLADE, LONG SCV 2832
3	281856	1	SHORT RETAINER, SIDE SQ SCV2426
4	281859	1	SIDE SQUEEGEE BLADE LINATEX, SCV 2832
5	281864	1	SQUEEGEE BRK'T WMNT RH, SCV 28/32
6	710154	6	SCR-MC TR HD 10-32 X .625 SS
7	711622	7	ROLL PIN 3/16"X 5/8"

DISK SCRUBDECK SIDE SQUEEGEE (LEFT SIDE)



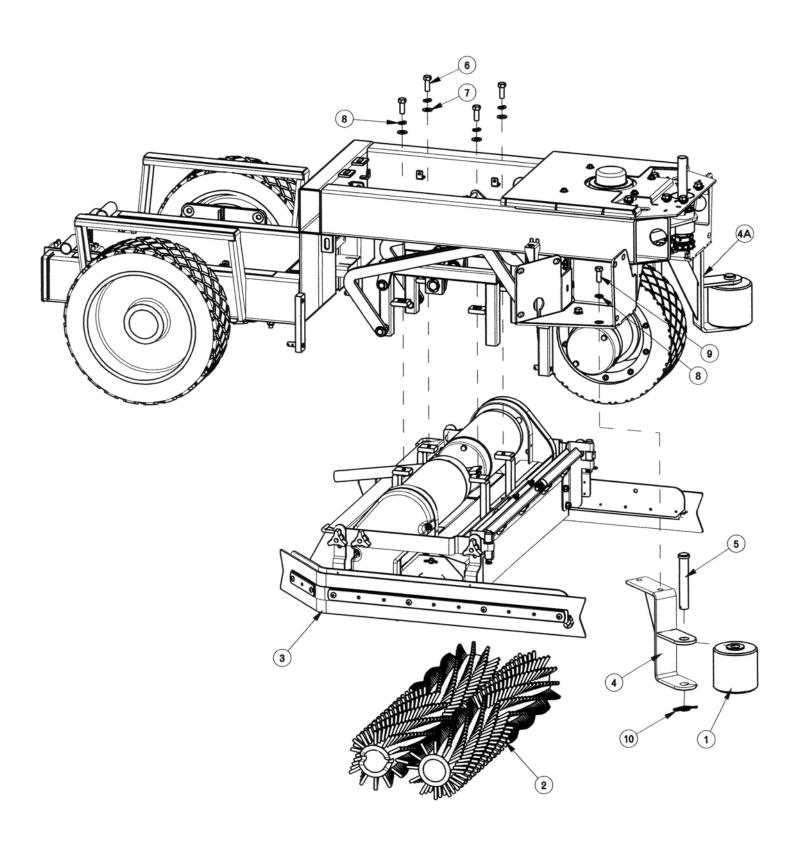
		BILL	OF MATERIAL - 281878
ITEM	PART NO.	REQ'D	DESCRIPTION
1	241679	1	LONG RETAINER, SIDE SQ SCV2426
2	281855	1	BACKER BLADE, LONG SCV 2832
3	281856	1	SHORT RETAINER, SIDE SQ SCV2426
4	281859	1	SIDE SQUEEGEE BLADE LINATEX, SCV 2832
5	281880	1	DISK SQUEGEE BRKT WMT LH,SCV2426
6	710154	6	SCR-MC TR HD 10-32 X .625 SS
7	711622	7	ROLL PIN 3/16"X 5/8"

DISK SCRUBDECK SIDE SQUEEGEE (RIGHT SIDE)



		BILL	OF MATERIAL - 281875
ITEM	PART NO.	REQ'D	DESCRIPTION
1	241679	1	LONG RETAINER, SIDE SQ SCV2426
2	281855	1	BACKER BLADE, LONG SCV 2832
3	281856	1	SHORT RETAINER, SIDE SQ SCV2426
4	281859	1	SIDE SQUEEGEE BLADE LINATEX, SCV 2832
5	281877	1	SQUEEGEE BRK'T WMNT RH, SCV 2426
6	710154	6	SCR-MC TR HD 10-32 X .625 SS
7	711622	7	ROLL PIN 3/16"X 5/8"

CYLINDRICAL SCRUBDECK AND ROLLER BUMPER MOUNTING

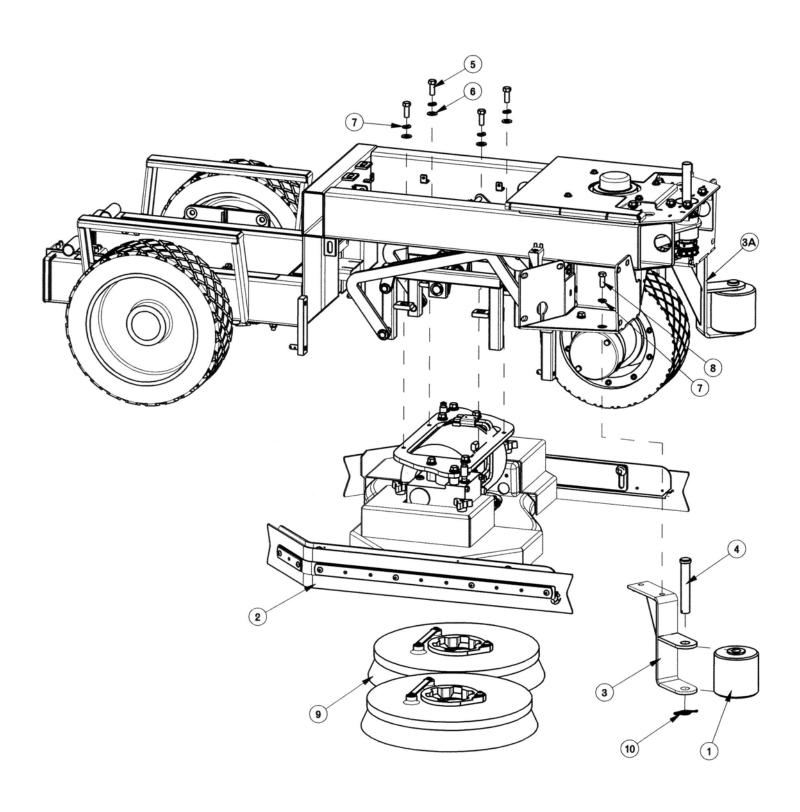


SCV28CQP & SCV32CQP BOM's

		ВІ	LL OF MATERIAL - SCV28CQP
ITEM	PART NO.	REQ'D	DESCRIPTION
1	66-436-A	2	RUBBER ROLLER
2	281520	2	BRUSH, CYL 28" .022 NYLON
2 A	281521	2	BRUSH-CYL 28" .028 NYL
2B	281522	2	BRUSH-CYL 28" .026 PP
2C	281525	2	BRUSH-CYL 28" SCRUBGRIT II 120
2D	281526	2	BRUSH-CYL 28" NYLO GRIT 80GR
2E	281527	2	BRUSH-CYL 28" STRATAGRIT 46GR
2F	281529	2	BRUSH-CYL 28" SCRUBGRIT 180GR
3	281831	1	CYLINDRICAL SCRUBDECK ASSY, 28" NO BRUSHES
4	281955	2	FRONT ROLLER MOUNT BRKT WMT
5	360017	2	3/4" X 4.50 CLEVIS PIN
6	711242	10	BLT-HEX 3/8 -16X1.00 ZP
7	711515	13	WSR-FLAT .406 X .812 X .0625
8	711546	14	WSR-HELICAL 3/8
9	713042	4	BLT-HH 3/8-16 X 1 #5
10	3400661	2	PIN-COTTER 5/8 RUE-RING

		ВІ	LL OF MATERIAL - SCV32CQP
ITEM	PART NO.	REQ'D	DESCRIPTION
1	66-436-A	2	RUBBER ROLLER
2	281530	2	BRUSH-CYL 32" .022 NYL
2 A	281531	2	BRUSH-CYL 32" .028 NYL
2B	281532	2	BRUSH-CYL 32" .026 PP
2C	281535	2	BRUSH-CYL 32" SCRUBGRIT II 120
2D	281536	2	BRUSH-CYL 32" NYLO GRIT 80GR
2E	281537	2	BRUSH-CYL 32" STRATAGRIT 46GR
2F	281539	2	BRUSH-CYL 32" SCRUBGRIT 180GR
3	281891	1	CYLINDRICAL SCRUBDECK ASSY, 32" NO BRUSHES
4	281976	1	FRONT ROLLER MNT BRKT WMT, RH (32" ONLY)
4A	281971	1	FRONT ROLLER MNT BRKT WMT, LH (32" ONLY)
5	360017	2	3/4" X 4.50 CLEVIS PIN
6	711242	10	BLT-HEX 3/8 -16X1.00 ZP
7	711515	13	WSR-FLAT .406 X .812 X .0625
8	711546	14	WSR-HELICAL 3/8
9	713042	4	BLT-HH 3/8-16 X 1 #5
10	3400661	2	PIN-COTTER 5/8 RUE-RING

DISK SCRUBDECK AND ROLLER BUMPER MOUNTING

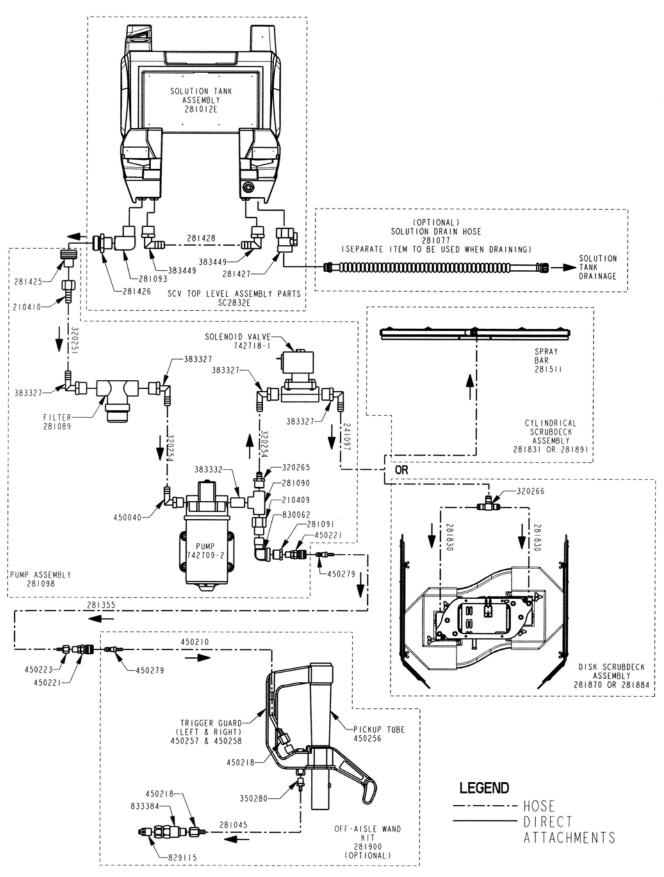


SCV28DQP &SCV32DQP BOM's

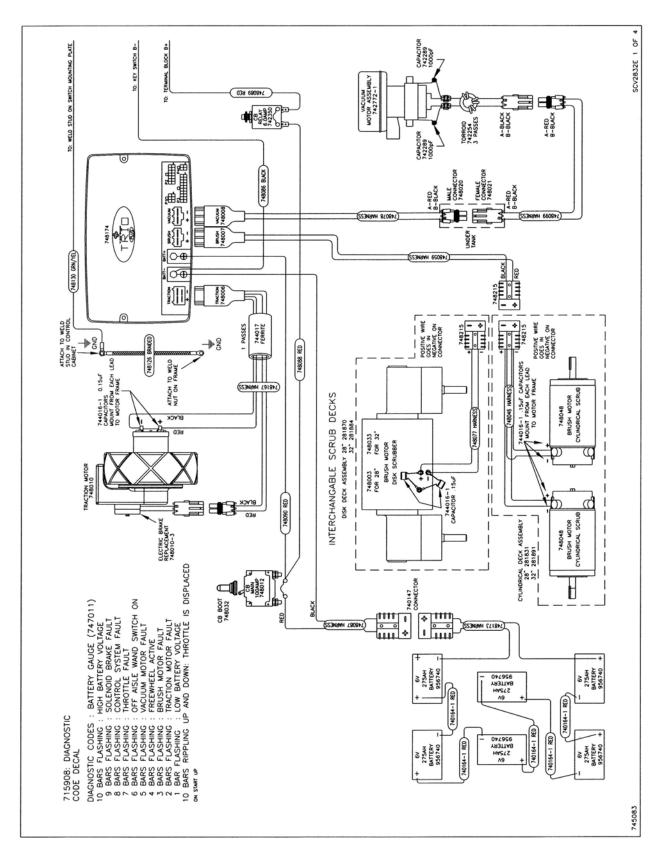
		ВІ	LL OF MATERIAL - SCV28DQP
ITEM	PART NO.	REQ'D	DESCRIPTION
1	66-436-A	2	RUBBER ROLLER
2	281870	1	DISK SCRUBDECK ASSEMBLY, 28" NO BRUSHES
3	281955	2	FRONT ROLLER MOUNT BRKT WMT
4	360017	2	3/4" X 4.50 CLEVIS PIN
5	711242	10	BLT-HEX 3/8 -16X1.00 ZP
6	711515	13	WSR-FLAT .406 X .812 X .0625
7	711546	14	WSR-HELICAL 3/8
8	713042	4	BLT-HH 3/8-16 X 1 #5
9	3313135	2	BRUSH SCRUB 14" PLASTIC NYLON
9 A	3313125	2	POWER DRIVE 14" POWERGRIT 80S/S
9B	3313127	2	POWER DRIVE 14" POWERGRIT 46HDS
9C	3313131	2	BRUSH SCRUB 14" PLAS WIRE
9 D	3313133	2	BRUSH SCRUB 14" PLAS BUTCHWIRE
9E	3315494	2	BRUSH 14" PWR DRIVE W/PAD HLDR
9F	3315386	2	POWER DRIVE 14" POWERGRIT 120AGS
10	3400661	2	PIN-COTTER 5/8 RUE-RING

		ВІ	LL OF MATERIAL - SCV32DQP
ITEM	PART NO.	REQ'D	DESCRIPTION
1	66-436-A	2	RUBBER ROLLER
2	281884	1	DISK SCRUBDECK ASSEMBLY, 32" NO BRUSHES
3	281976	1	FRONT ROLLER MNT BRKT WMT, RH (32" ONLY)
3 A	281971	1	FRONT ROLLER MNT BRKT WMT, LH (32" ONLY)
4	360017	2	3/4" X 4.50 CLEVIS PIN
5	711242	10	BLT-HEX 3/8 -16X1.00 ZP
6	711515	13	WSR-FLAT .406 X .812 X .0625
7	711546	14	WSR-HELICAL 3/8
8	713042	4	BLT-HH 3/8-16 X 1 #5
9	3313136	2	BRUSH SCRUB 16" PLASTIC NYLON
9A	3313126	2	POWER DRIVE 16" POWERGRIT 80S/S
9B	3313128	2	POWER DRIVE 16" POWERGRIT 46HDS
9C	3313132	2	BRUSH SCRUB 16" PLAS WIRE
9 D	3313134	2	BRUSH SCRUB 16" PLAS BUTCHWIRE
9E	3315495	2	BRUSH 16" PWR DRIVE W/PAD HLDR
9F	3315385	2	POWER DRIVE 16" POWERGRIT 120AGS
10	3400661	2	PIN-COTTER 5/8 RUE-RING

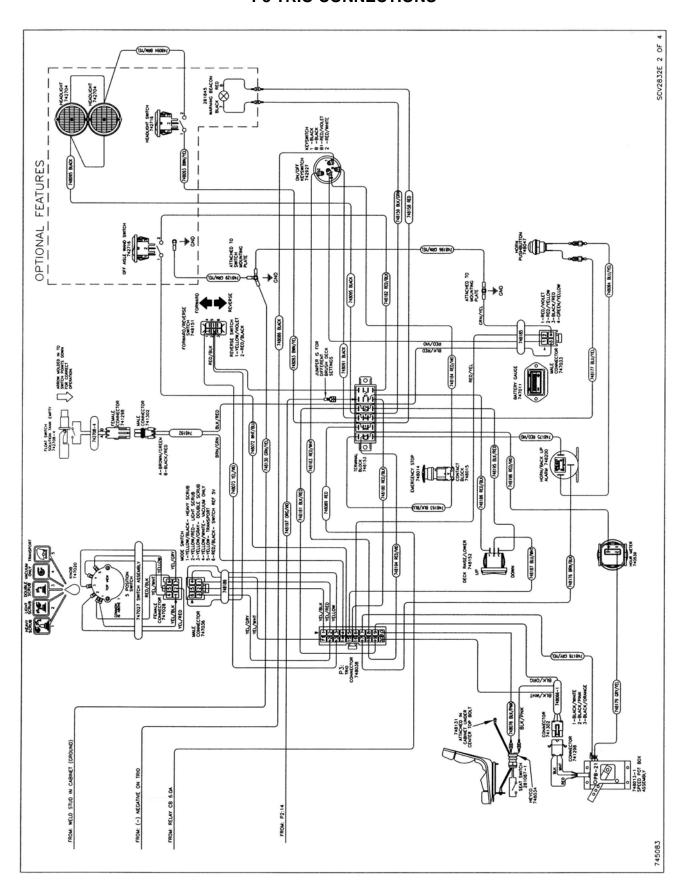
PLUMBING DIAGRAM



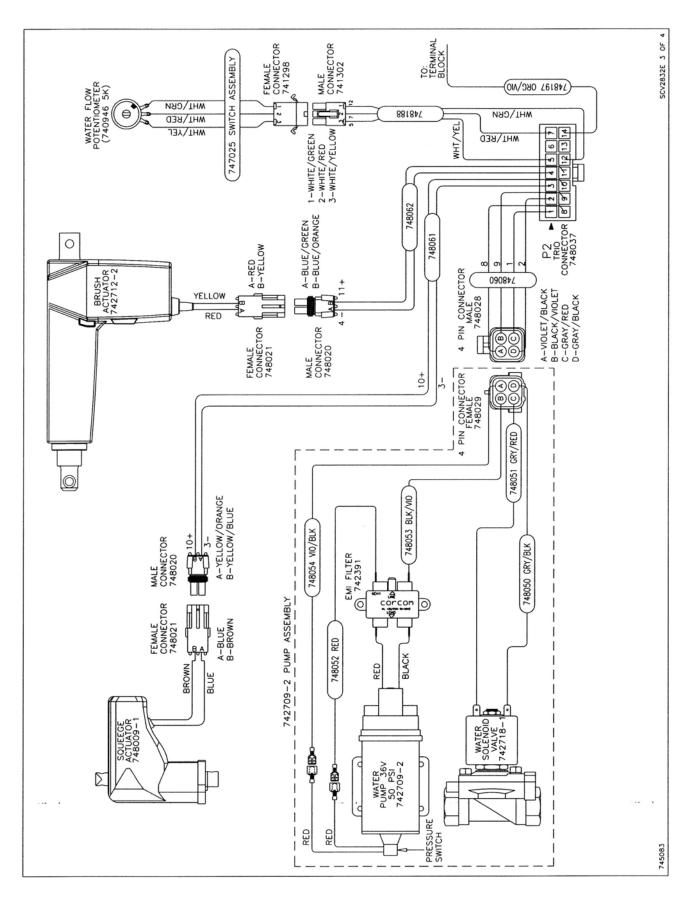
WIRING DIAGRAMS TRIO CONNECTIONS



P3 TRIO CONNECTIONS



P2 TRIO CONNECTIONS



WIRE COLORS / CODES

# NIA	# HARNESS COLOR	FUNCTION	# NIA	COLOR	FUNCTION
-	RED/VIOLET	POSITIVE TO LEDS	1 1		WATER SOLENOID VALVE
2	RED/VIOLET	E-STOP-TRIO KSI P3:18	2	GRAY/BLACK	WATER SOLENOID VALVE
2	RED/WHITE	+V FROM TRIO P3:8	3	YELLOW/ORANGE	SQUEEGE ACTUATOR
4	EMPTY	1	4	BLUE/GREEN	BRUSH ACTUATOR
MODE	SELECTOR SWITCH	WITCH	2	WHITE/YELLOW	WATER FLOW POTENTIOMETER (SLOW)
SWT #	# PIN # COLOR	FUNCTION	9	1	1
1_	YEL	┝	7	WHITE/RED	WATER FLOW POTENTIOMETER (WIPER)
2	2 YELLOV	-	ω	VIOLET/BLACK	WATER PUMP
2	Ĺ	+	თ	BLACK/VIOLET	WATER PUMP
4	_	VACUUM	10	YELLOW/BLUE	SQUEEGE ACTUATOR
5	\vdash	┝	11	BLUE/ORANGE	BRUSH ACTUATOR
U	6 RED/B	BLACK SWITCH REF 5V	12	WHITE/GREEN	WATER FLOW POTENTIOMETER (FAST)
E	BATTERY GAUGE		13	1	
# NIG	COLOR	NOITONITE	14	ORANGE/VIOLET	BRUSH DECK PRESSURE SETTING
-	RE	SWITCHED 36VDC:P3-18	P3:	TRIO CONNECTOR	~
2	RED/YELLOW	SIGNAL: P3-6	PIN #	COLOR	FUNCTION
2	BLACK/RED	SIGNAL REF OV	-	YEL	5 MODE SWITCH: LIGHT SCRUB
4	GREEN/YELLOW	-	2	YELLOW/BLACK	5 MODE SWITCH: HEAVY SCRUB
M	REVERSE SWITCH	1	2	YELLOW	5 MODE SWITCH: TRANSPORT
# NId	80100	NOTION	4	1	1
	YFI I OW /VIOLET	+	9	BLUE/WHITE	DECK RAISE/LOWER SWITCH
0	RFD/BLACK	╁	0 1	RED/YELLOW	BATIERY GAUGE SIGNAL
2	EMPTY		α	PED /WHITE	DON /OFF BEF (B+)
4	RFD /VIOLET	REVERSE LED	0	BI ACK /OBANGE	
2	RED /VIOLET	KEY SWITCH ON	10	BLACK / PINK	SPEED POT /SEAT SAFETY SWITCH
9	RED/VIOLET	FORWARD LED	1-	YELLOW/WHITE	5 MODE SWITCH: VACUUM ONLY
SIDE	TO SIDE SWITCH		12	YELLOW/GRAY	5 MODE SWITCH: DOUBLE SCRUB
7		- 1	13	YELLOW/VIOLET	
* .	COLOR	FUNCT	14	BROWN/GREEN	SOLUTION TANK EMPTY FLOAT SWITCH
_	BROWN/GRAY	+	15	WHITE/BLUE	OFF AISLE WAND
7	RED	BALLE	16	RED/BLACK	HIGH SWITCH REF 5VDC
2	BROWN/YELLOW	SIDE	17	BROWN/BLACK	BACK UP ALARM
4	BROWN/YELLOW	\dashv	18	RED/VIOLET	ON/OFF INPUT-KEY SWITCH
2	BLACK	BATTERY OVDC	19	BLACK/RED	LOW SWITCH REF OVDC
9	BROWN/GRAY	SIDE ACTUATOR	20	BLACK/WHITE	SPEED POTENTIOMETER (FAST)
			MISC	MISCELLANEOUS	
				COLOR FUNCTION	NOI
				BLACK BATTERY	RY OVDC
			RE	\forall	1. 1
			BU	BLACK/RED LOW S	LOW SWITCH REF OV

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 12 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 prefilters 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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