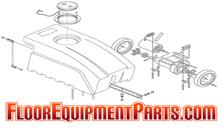
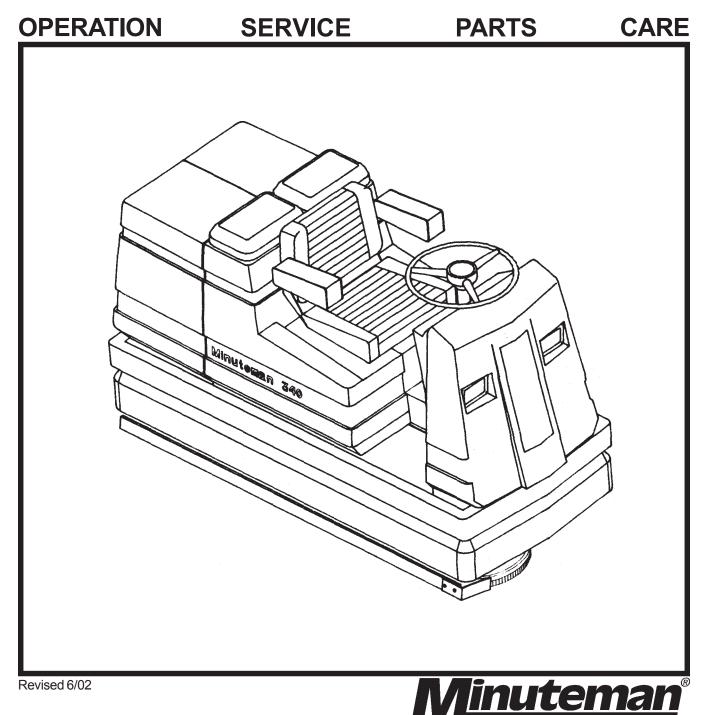
340 Sweeper/Scrubber **Gas Model**

Model: MC340000 MC340000R





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ILLUSTRATION, SPARE PARTS, OPERATION AND SERVICE

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| Limited Warranty | Back Cover |

AUTO SCRUBBER BRUSH DESCRIPTION

| TYPE | DESCRIPTION | DURABILITY* | COLOR | COMPARISON TO PADS | RECOMMENDED USE |
|-------------|--|-------------|---------------|--------------------|--|
| Bassine | Natural Fiber | Short | Dark Brown | Red | Light duty general cleaning, acid etching |
| Nylon | Nylon | Medium | Black | Tan/Red | General cleaning & scrubbing vinyl floors, ceramic tile & concrete floors |
| Dyna-Scrub | Nylon impregnated with 500 Grit Silicon Carbide Fine Bristle, Dense Fill | Long | Light Blue | Red | General scrubbing, vinyl tile, ceramic tile, epoxy floors, urethane finish, uneven concrete floors |
| Power-Scrub | Nylon impregnated with 120 Grit Silicon Carbide Fine Bristle, Dense Fill | Long | Rust | Red/Blue | Moderate aggressive scrubbing, tile floors, concrete floors |
| Poly-Grit | Nylon impregnated with 80 Grit Silicon Carbide Coarse Bristle | Long | Green | Brown/Black | Aggressive stripping and scrubbing, tile floors, unfinished concrete floors |
| Strata-Grit | Nylon impregnated with 46 Grit Silicon Carbide Coarse Bristle | Long | Dark Blue | Black | Heavy duty stripping/scrubbing unfinished concrete |

^{*} Durability is dependant on floor surface, chemicals used and proper care.

OPERATING AND SERVICE MANUAL

INSPECTION

Carefully unpack and inspect your scrubber for shipping damage. Each unit is tested and thoroughly inspected before shipment and any damage is the responsibility of the delivering carrier who should be notified immediately.

ENGINE

Engine is shipped with oil. Refer to engine manual for proper service intervals and maintenance.

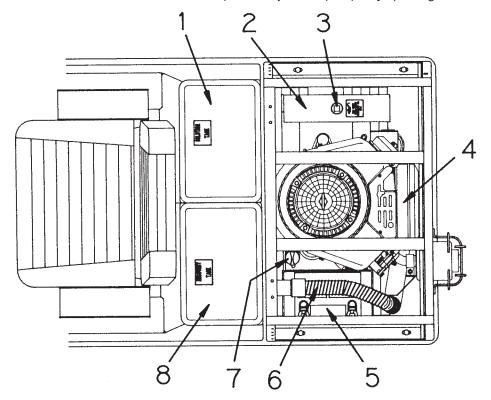
WARNING

This gasoline engine produces carbon monoxide exhaust fumes. Do not use in enclosed areas or in areas where lethal fumes may accumulate.

DANGER

Gasoline is highly flammable and its vapors are explosive. To prevent personal injury or property damage:

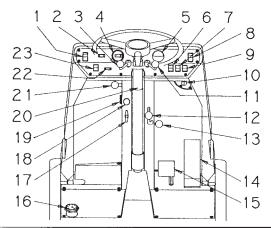
- Do not fill fuel tank indoors. After filling, wipe up any spills and move machine away from gasoline fumes before starting engine.
- · Do not allow open flame, matches, or smoking in area.
- Fill the fuel tank with fresh, clean unleaded regular automotive gasoline. (leaded regular and unleaded or leaded premium grades of gasoline are acceptable substitutes.
- Do not mix oil with gasoline.
- Clean the area around the fuel fill cap and remove the cap from the fuel tank. Insert a clean funnel into the fuel tank.
- Fill the fuel tank to 1/2 inch below the bottom of the filter neck to provide space for any fuel expansion.
- Reinstall the fuel fill cap securely and wipe up any spilled gasoline.



- 1. Solution Tank
- 2. Hydrastatic Reserve Oil Tank *Use only 10W30 motor oil
- 3. Oil Dip Stick, Plug Hydrastatic Reserve Tank
- 4. Engine
- Battery
- 6. Vacuum Squeegee Hose
- 7. Oil Fill Engine
 *See engine owners manual
- 8. Recovery Tank

OPERATING PROCEDURES

CAUTION: Familiarity with controlling this machine is essential before entering areas which contain equipment and/or people.



CONTROL/INSTRUMENT

FUNCTION

- 1. Horn
- 2. Recovery Tank Full Indicator
- Optional Solution Feed Recycle 3.
- Hourmeter Gauge 4.
- 5. Volt Meter
- 6. Optional Overhead Light Switch Knockout
- 7. Squeegee Control Switch
- 8. Optional Pre-sweep Switch Knockout
- 9. Brush Switch
- 10. Ignition Switch Solution Control Lever 11.
- 12. Side Squeegee Lift
- 13. Parking Brake Knob
- 14. Forward/Reverse Pedal
- Parking Brake 15.
- 16. Gas Cap
- Engine Throttle Control 17.
- **Engine Choke Control** 18.
- 19. Fuse Block
- 20. Steering Height Control Collar
- 21. Tilt Steering
- 22. Optional Recycle Ready Light Knockout
- 23. Optional Switch Position Knockout

Records actual hours of operation. Indicates battery charge voltage.

Electrically controlled valves permits oil to flow to the squeegee cylinder to automatically lower in forward and raise in reverse. Move switch, second from right on dashboard to down position for automatic control. Move switch to up position for transport and double scrub. The turbine is turned on automatically when the rear squeegee is lowered. The turbine is turned off automatically, after 30 seconds delay, when squeegee is raised.

Electrically controlled valves permit oil to flow to the brush cylinder to raise and lower the scrub head. Brushes automatically turn when lowered and stop when raised. Move switch on right side of the dashboard to down position to lower the scrub head. Move switch to the up position to raise the scrub head.

Engine start.

Regulates flow of solution.

This is a manual control to the right of the steering column. Push knob down and to the right to raise front of the side squeegee. Move knob left and up to the lower front of the side squeegee. The rear of the side squeegee works automatically with rear squeegee.

To set parking brake: while stepping on brake pedal, raise knob located on right side of steering tower, until brake locks. Brake releases automatically when brake pedal is depressed again.

Activates traction drive control valve. Depress toe for forward and heel for reverse. Pedal travel determines forward and reverse speed. Depress to activate brakes on rear wheels. Refer to instructions.

Raise collar on steering column to move steering wheel up or down. Lower collar to lock into position.

Push in knob, on left side of steering column, to tilt steering wheel forward or back. Release knob to lock in place.

2

PRELIMINARY SYSTEMS CHECK

Before starting the unit, make the following inspections:

- Check charge level of battery. Turn switch key on and observe battery condition gauge. Battery condition and charge level are best determined by checking specific gravity with a hydrometer. Check fluid level in each cell and bring to proper level if necessary.
 DO NOT OVERFILL.
- Check level of oil in hydrostatic reserve tank. Maintain level at two inches below top of tank. USE SAE 10W30 DETERGENT MOTOR OIL.
- Inspect for evidence of oil leaks.
- Check and fill gas tank.
- 5. Check engine oil level.

BRUSH CONDITION

Inspect condition of brushes. Replace brush when bristles are worn to 1/2 inch. Use the proper brushes for most effective scrubbing action.

The following types of brushes are available:

| Part Number | <u>Type</u> | | | | |
|-------------|-------------|--|--|--|--|
| 430034 | Nylon | | | | |
| 430108 | Pad Driver | | | | |
| 430132 | Strato Grit | | | | |
| 430111 | Poly Grit | | | | |

Inspect rear squeegee rubber for cuts and foreign matter, which may cause streaking. Squeegee rubber must be replaced when worn to a level where they no longer wipe the floor dry. The side squeegee or corner squeegee is used while turning corners and while scrubbing along pallets, cartons, carpets or any condition where it is advisable to immediately direct the water away from the scrubbing edge. Electrically controlled valves permit oil to flow to the squeegee cylinder to automatically lower in forward and raise in reverse. The squeegee switch raises rear squeegees for transport and double scrubbing.

RECOVERY TANK

Drain recovery tank before re-filling solution tank.

WARNING: Recovery tank float switch will shut off turbines when tank is filled to capacity.

Two drains are provided on the recovery tank. For access to the rear drain hose, loosen the two wing bolts under the rear skirt and remove skirt. Direct hose to drain and remove plug end of hose.

CAUTION: When replacing hose in holder, ensure that it does not interfere with squeege linkages.

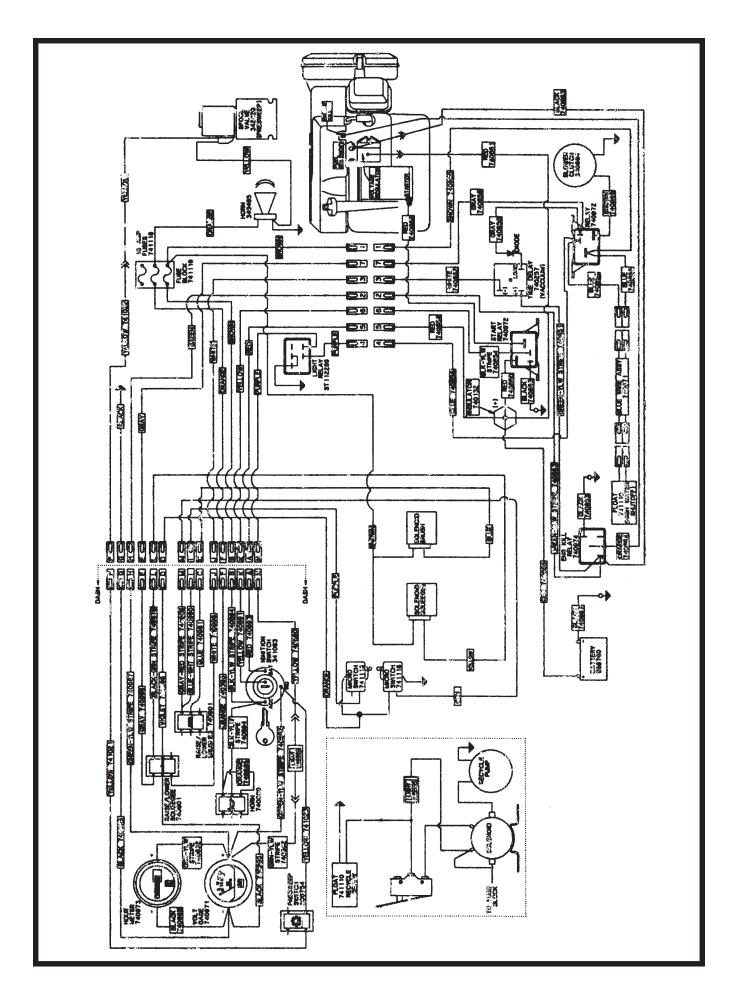
To clean sludge from bottom of tank, remove lower left side panel and open gate valve at bottom of tank. Flush tank with water.

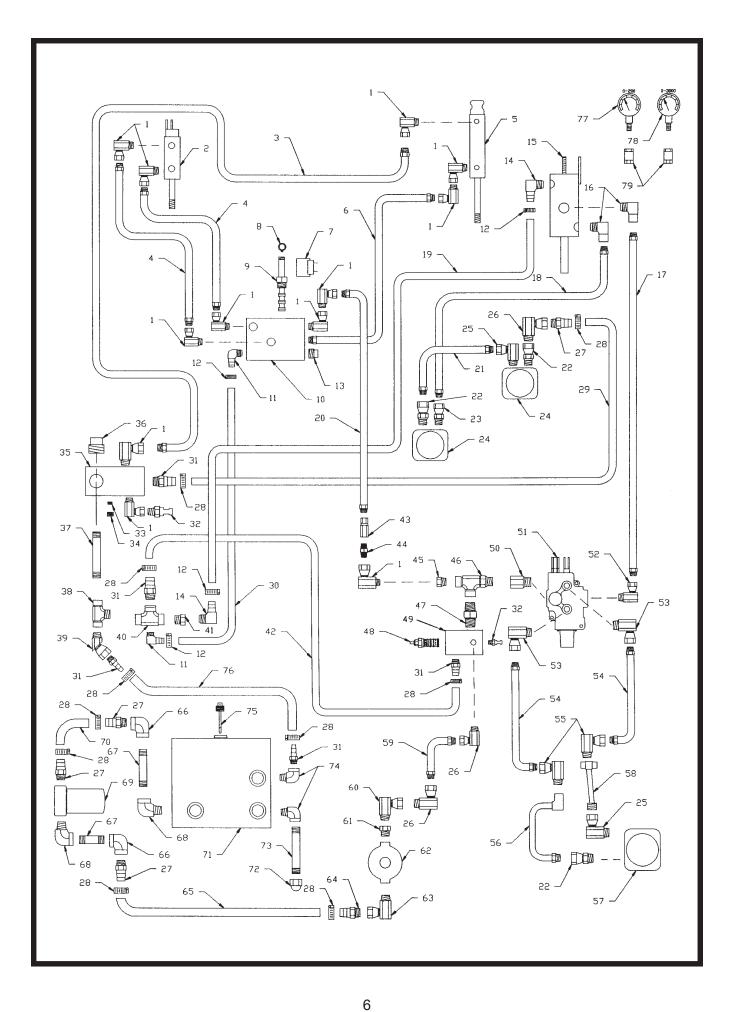
PREPARE TO SCRUB

- Fill solution tank with clean water. It is recommended that cleaning chemicals be added to tank while being filled to insure an even mixture. Warm water is recommended, but not essential. Use a low foaming chemical.
- 2. Pull out choke control. Refer to Page 2, Item 18.
- 3. Pull out throttle control half way. Refer to Page 2, Item 17.
- 4. Start engine with ignition switch, refer to Page 2, Item 10. Push in choke and increase throttle control to full out position and twist to lock in position.
- 5. Use appropriate switches to place brushes and squeegee in up position.
- 6. Depress foot pedal and proceed to area to be scrubbed.
- 7. Lower brushes with brush control switch.
- 8. Lower squeegees with squeegee control switch. Turbines start automatically when squeegees are lowered and stop when raised. Squeegees raise automatically when machine is reversed.
- 9. Open solution valve.
- 10. Depress foot pedal to appropriate speed for the conditions:
 - a. Heavy soil: slow ground speed
 - b. Light soil: faster ground speed
- 11. Adjust solution control valve to allow only enough solution to the scrub path. **DO NOT** allow excessive solution to flood scrub path.
- 12. To operate side squeegee, release knob to the right of steering column. This lowers the front of the side squeegee. The rear operates automatically. To raise side squeegee, return knob to original position. The side squeegee should be used to eliminate water left on the floor while turning and when scrubbing close to carpeting, cartons or close to walls. A 90 degree turn in a corner can be scrubbed and dried with side and rear squeegee down. DO NOT use side squeegee except when necessary. Avoid making right hand turns with side squeegee down.

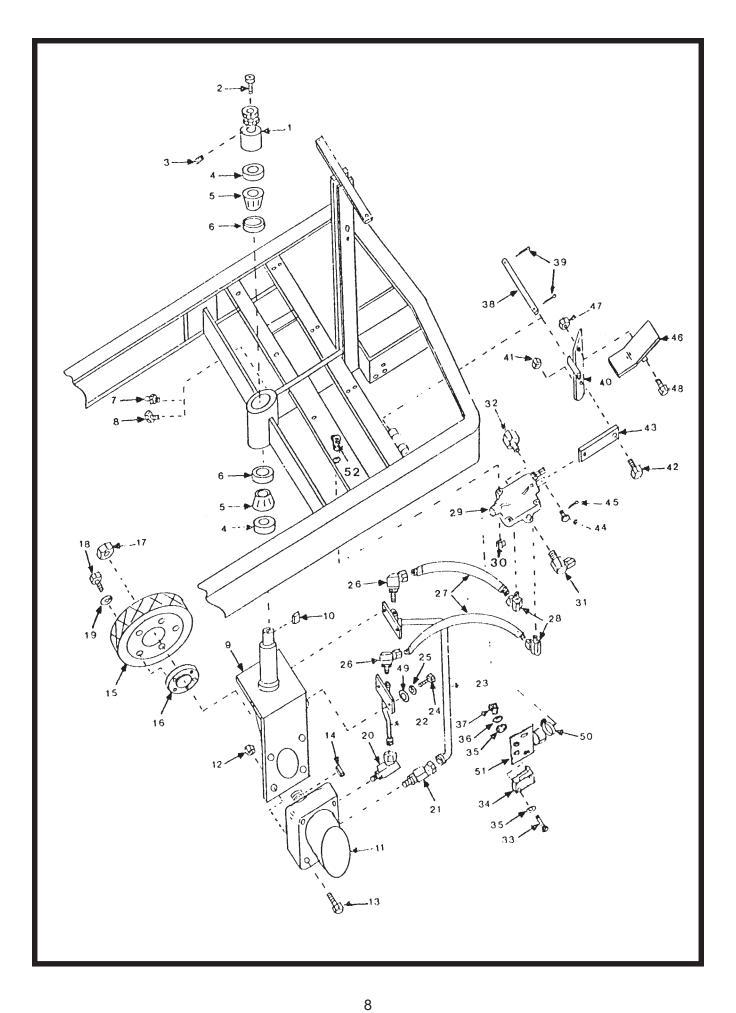
SCRUBBING PROCEDURE

- 1. Maintenance Scrub (single pass).
 - a. Move brush control to down position.
 - b. Move squeegee control switch to down position.
 - c. Open solution control level and adjust to proper flow.
 - d. Slowly depress right foot pedal to desired ground speed.
 - e. Use side squeegee while turning to eliminate leaving water on turns.
 - f. Single pass procedure should be used where a heavy soil build-up does not exist.
- 2. Multiple Scrub (heavy soil).
 - a. Move brush control switch to down position.
 - b. Open solution control lever and adjust to proper flow.
 - c. Slowly depress right foot pedal to desired ground speed. A slow ground speed is most desirable in cleaning heavy soil build-up.
 - d. Continue to dispense solution while scrubbing until all soilage can be suspended in solution. Move squeegee control switch down. Scrub entire area a second time while drying the surface with squeegees and turbines operating. **NOTE:** In extreme conditions, the area may need to be scrubbed several times until clean or until solution on the floor becomes saturated with soil.
 - e. Check solution level in tank while closest to water source.
 - f. Recovery tank must always be emptied and cleaned at time of refilling solution tank. Squeegees will stop picking up solution when recovery tank is full.

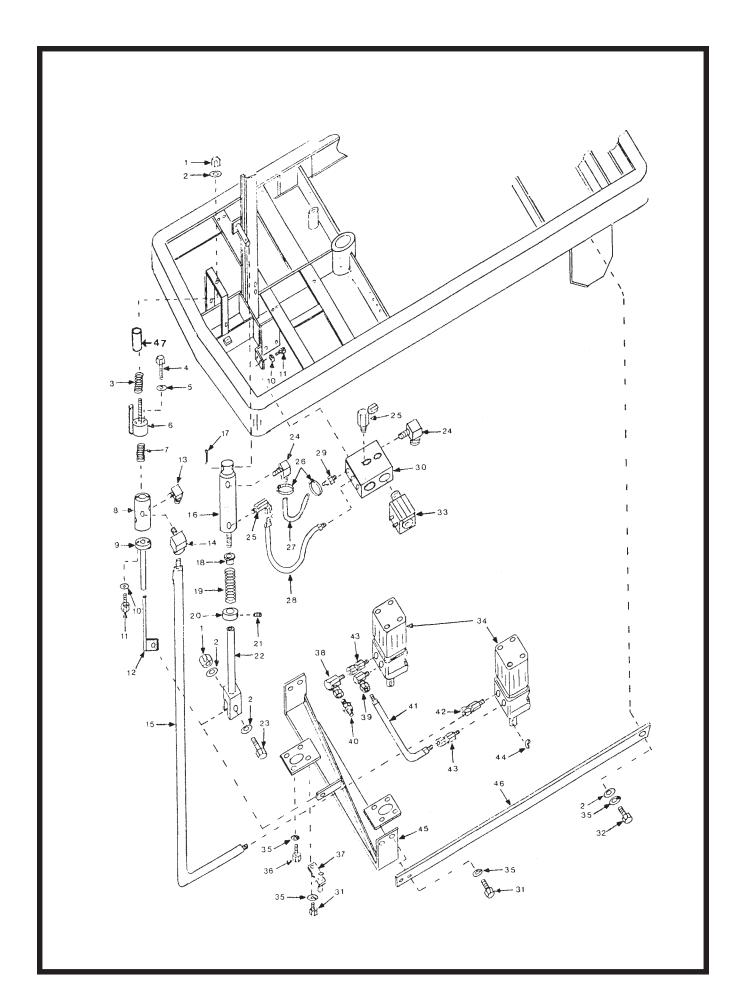




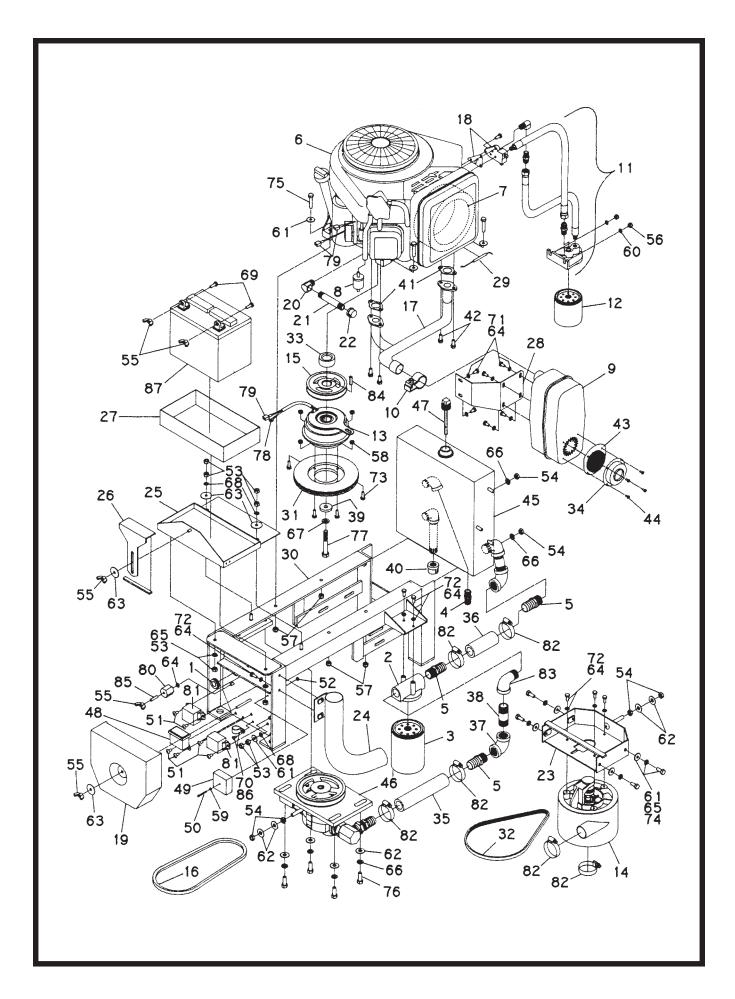
| ITEM | PART NO | QTY | DESCRIPTION | ITEM | PART NO | QTY | DESCRIPTION |
|------|---------|--------|--------------------------|------|---------|-----|------------------------------|
| 1 | 340524 | 12 | Ell, Swivel | 41 | 340486 | 1 | Bushing |
| 2 | 340558 | 1 | Cylinder | 42 | 340544 | 1 | Hose |
| 3 | 340951 | 1 | Hose | 43 | 340967 | 1 | Valve Check |
| 4 | 340531 | 2 | Hose | 44 | 340968 | 1 | Nipple, Hex |
| 5 | 340555 | 1 | Cylinder | 45 | 340969 | 1 | Bushing |
| 6 | 340535 | 1 | Hose | 46 | 340515 | 1 | Tee |
| 7 | 742118 | 2 2 | Coil Solenoid 12V | 47 | 340514 | 1 | Nipple |
| 8 | 340952 | 2 | Ring, Retaining | 48 | 340550 | 1 | Cartridge, Relief Valve |
| 9 | 340953 | 2 | Valve, 4-Way | 49 | 340606 | 1 | Block, Relief |
| 10 | 340954 | 1 | Manifold | 50 | 340518 | 1 | Adpater |
| 11 | 340536 | 2 | EII | 51 | 340545 | 1 | Drive Valve |
| 12 | 340506 | 4 | Clamp | 52 | 340546 | 1 | Fitting |
| 13 | 340492 | 1 | Plug | 53 | 340547 | 2 | Fitting |
| 14 | 340538 | 2 | EII | 54 | 340532 | 2 | Hose |
| 15 | 340570 | 1 | Valve, Brush | 55 | 340519 | 2 | Fitting |
| 16 | 340536 | 2 | Street Ell | 56 | 340590 | 1 | Line, Hydraulic |
| 17 | 340955 | 1 | Hose | 57 | 340502 | 1 | Motor, Wheel |
| 18 | 340956 | 1 | Hose | 58 | 340589 | 1 | Line, Hydraulic, Short |
| 19 | 340543 | 1 | Hose | 59 | 340970 | 1 | Hose |
| 20 | 340957 | 1 | Hose | 60 | 340971 | 1 | Fitting |
| 21 | 340521 | 1 | Hose | 61 | 340525 | 1 | Adapter |
| 22 | 340537 | 3 | Fitting | 62 | 340528 | 1 | Pump |
| 23 | 340548 | 1 | Fitting | 63 | 340527 | 1 | Fitting |
| 24 | 340505 | 2 | Motor, Brush | 64 | 340603 | 1 | Fitting |
| 25 | 340517 | 2 | Fitting | 65 | 340972 | 1 | Hose |
| 26 | 340516 | 3 | Ell, Swivel | 66 | 341092 | 2 | Elbow, 3/4" |
| 27 | 340526 | 4 | Fitting | 67 | 311093 | 2 | Pipe Nipple, 3/4" x 2 1/2" |
| 28 | 340463 | 10 | Clamp | 68 | 761545 | 2 | Street 90°, 3/4" |
| 29 | 340958 | 1 | Hose | 69 | 340465 | 1 | Filter Assembly |
| 30 | 340542 | 1_ | Hose | 70 | 341091 | 1 | Hose |
| 31 | 340523 | 5 | Coupling | 71 | 340973 | 1 | Reservoir, Hydraulic |
| 32 | 340959 | 2 | Adapter | 72 | 340974 | 1 | Cap, Pipe |
| 33 | 340960 | 1 | Nyloc Set Screw, 5/16-18 | 73 | 340975 | 1 | Nipple |
| 34 | 340961 | 1 | Plug | 74 | 340976 | 2 | Cartridge, Relief Valve |
| 35 | 340962 | 1 | Manifold, Brush Pressure | 75 | 340565 | 1 | Dipstick |
| 36 | 340467 | 1 | Plug | 76 | 340977 | 1 | Cylinder |
| 37 | 340963 | 1 | Nipple | 77 | 340978 | 1 | Gauge, Pressure (0-200 psi) |
| 38 | 340964 | 1 | Tee | 78 | 340979 | 1 | Gauge, Pressure (0-3000 psi) |
| 39 | 340965 | 1 | Swivel 45° | 79 | 340980 | 2 | Coupler |
| 40 | 340966 | 1 | Tee | | | | • |



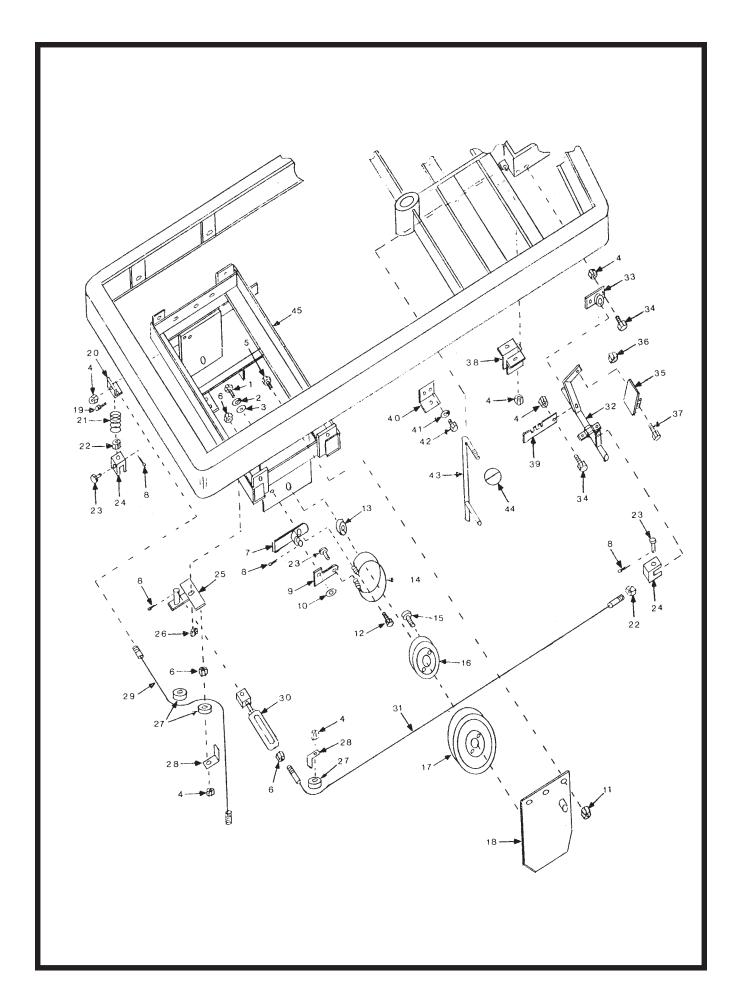
| ITEM | PART NO | QTY | DESCRIPTION |
|----------|---|--------|--|
| 1 2 | 340556 710987 | 1 1 | Adaptor, Steering SCR-SC 3/8-16 x 1.50 STPL |
| 3 | 710822 | 2 | SCR-SC 1/4-20 x .37 ST NI |
| 4 | 340488 | 2 | Seal |
| 5 | 340490 | 2 | Cone |
| 6 | 340491 | 1 | Cup |
| 7 | 340496 | 1 | Fitting, Grease |
| 8 | 710751 | 1 | 1/4 28 x 1/2 HH BLT |
| 9 | 340416 | 1 | Fork, Steering |
| 10 | 340554 | 1 | Key |
| 11 | 340502 | 1 | Motor, Wheel |
| 12 | 711376 | 4 | Nut-Nyloc 1/2-13 |
| 13 | 710754 | 4 1 | 1/2 x 13 x 2 3/4 Hardene |
| 15 | 340561 340489 | 1 | Wheel, Drive Hub, Wheel |
| 16 18 | 712037 | 5 | 7/16 x 20 1/4 BLT |
| 19 | 712037 | 5 | 7/16 Lockwasher |
| 20 | 340517 | 1 | Fitting |
| 21 | 340527 | 1 | Fitting |
| 22 | 340589 | 1 | Line, Hydraulic |
| 23 | 340590 | 1 | Line, Hydraulic |
| 24 | 711202 | 4 | BLT-HH 1/4-20 x .50 STPL |
| 25 | 711544 | 4 | WSR-Helical 1/4 |
| 26 | 340519 | 2 | Fitting |
| 27 | 340532 | 2 | Hose |
| 28 | 340547 | 2 | Fitting |
| 29 | 340545 | 1 | Drive Valve |
| 30 | 711373 | 2 | Nut-Nyloc 1/4-20 |
| 31 | 340546 | 1 | Fitting |
| 32 | 340518 | 1 | Adaptor |
| 33 34 | 710490 | 4 2 | SCR-MC 4-40 x .50 STPL Micro Switch |
| 35 | 741116 711531 | 8 | WSR-Finish #6 |
| 36 | 711596 | 4 | WSR-Internal Lock #4 |
| 37 | 711428 | 4 | Nut-Hex 4-40 |
| 38 | 340421 | 1 | Pin, Pedal |
| 39 | 711809 | 2 | 1/8 x 1 Cotter Pin |
| 40 | 340419 | 1 | Arm, Forward/Reverse |
| 41 | 711375 | 1 | Nut-Nyloc 3/8-16 |
| 42 | 711242 | 1 | BLT-HH 3/8-16 x 1.00 |
| 43 | 340420 | 1 | Link, Forward/Reverse |
| 44 | 712097 | 1 | Clevis Pin |
| 45 | 711805 | 1 | Cotter Pin .08 x 1.00 |
| 46 | 340445 | 1 | Pedal, Forward/Reverse |
| 47 | 711374 | 1 | Nut-Nyloc 5/16-18 |
| 48 | 711230 | 1 | BLT-HH 5/16-18 x 1.00 STPL WSR-Flat 1/4 |
| 49 50 | 711505 340495 | 4 1 | Clamp |
| 50 51 | 340595 | 1 | Bracket, Switch |
| 52 | 710587 | 2 | SCR-MC 1/4-20 x 1.50 ST NI |
| <u> </u> | , | _ | COTT INC 1/ 1 20 X 1.00 OT 141 |



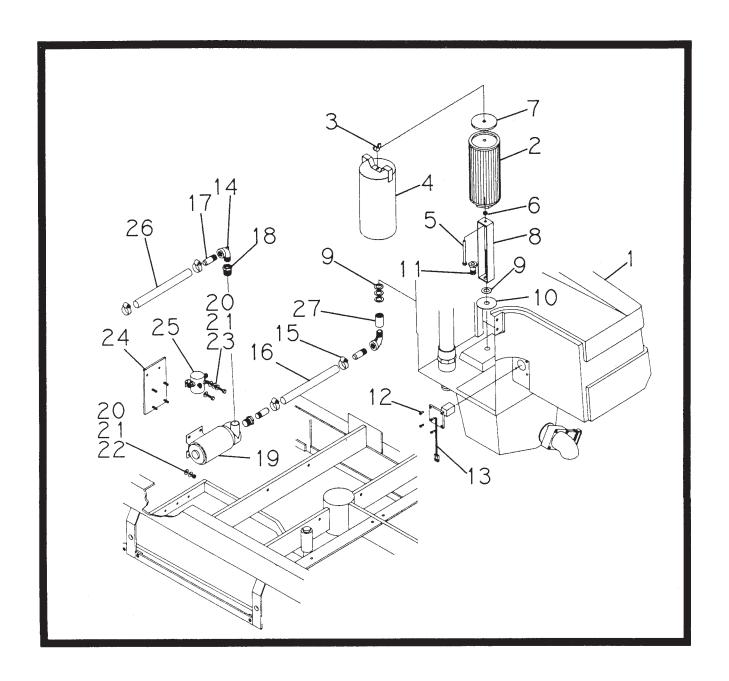
| ITEM | PART NO | QTY | DESCRIPTION |
|----------|------------------|--------|---|
| 1 | 711375 | 2 | Nut-Nyloc 3/8-16 |
| 2 | 711508 | 5 | WSR-Flat .44 x 1.00 x .06 |
| 3 | 340576 | 1 | Spring |
| 4 | 711214 | 2 | BLT-HH 1/4-20 x 2.00 STPL |
| 5 | 711544 | 1 | WSR-Helical 1/4 |
| 6 | 340586 | 1 | Cap, Top |
| 7 | 340503 | 1 1 | Spring Valve, Brush |
| 8 9 | 340570 340571 | 1 | Extension, Valve |
| 10 | 711544 | 2 | WSR-Helical 1/4 |
| 11 | 711207 | 4 | BLT-HH 1/4-20 x 1.00 STPL |
| 12 | 340429 | 1 | Actuator, Valve |
| 13 | 340538 | 1 | EII |
| 14 | 340530 | 2 | Street Ell |
| 15 | 340533 | 1 | Hose |
| 16 | 340555 | 1 | Cylinder |
| 17 | 711807 | 1 | Cotter Pin .12 x 1.75 |
| 18 | 340501 | 1 | Bushing |
| 19 | 340475 | 1 | Spring, Brush |
| 20 21 | 340480 711024 | 1 | Collar SCR-SK 5/16-18 x .50 |
| 22 | 340400 | 1 | Rod, Brush Lift |
| 23 | 711243 | i | BLT-HH 3/8-16 x 1.5 STPL |
| 24 | 340536 | 2 | EII |
| 25 | 340524 | 2 | Ell, Swivel |
| 26 | 340506 | 2 | Clamp |
| 27 | 340514 | 1 | Nipple |
| 28 | 340535 | 1 | Hose_ |
| 29 | 340624 | 1 | Hose Barb Adapter |
| 30 | 340599 | 2 | Manifold, Brush |
| 31 32 | 711242 711241 | 6 2 | BLT-HH 3/8-16 x 1.00 BLT-HH 3/8-16 x .75 |
| 33 | 340539 | 6 | Cartridge Solenoid Valve |
| 33A | 741115 | 6 | Coil Solenoid Valve |
| 34 | 340505 | 1 | Motor, Brush |
| 35 | 711546 | 14 | WSR-Helical 3/8 |
| 36 | 711246 | 6 | BLT-HH 3/8-16 x .87 STPL |
| 37 | 340427 | 2 | Outlet, Solution |
| 38 | 340516 | 1 | Ell, Swivel |
| 39 | 340517 | 1 | Fitting |
| 40 | 340523 | 1 | Coupling |
| 41 42 | 340521 | 1 1 | Hose |
| 42 | 340548 340537 | 2 | Fitting Fitting |
| 44 | 340623 | 2 | Woodruff Key Special |
| 45 | 340426 | 1 | Frame, Brush |
| 46 | 340428 | 2 | Arm, Brush, Lift |
| 47 | 340602 | 1 | Hose |
| 48 | 340019 | 2 | Brush Spindle Adapter |
| 49 | 340631 | 2 | Key 1/4 x 1/4 x 1.375 |
| 50 | 430035 | 2 | Drive Hub |



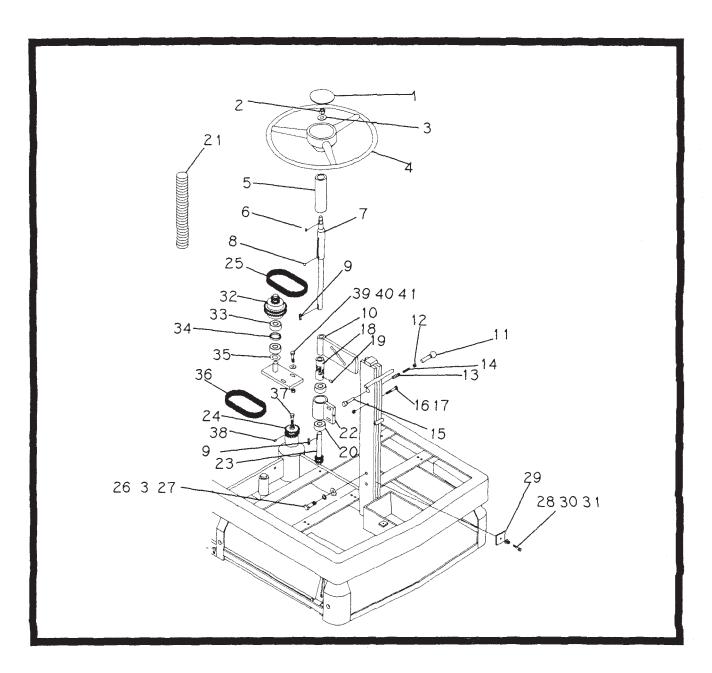
| ITEM | PART NO | QTY | DESCRIPTION | ITEM | PART NO | YTC | DESCRIPTION |
|------|-----------|-----|------------------------------------|------|---------|-----|---------------------------------|
| 1 | 130013 | 1 | Grommet .81 x 69 x .06 | 45 | 341102 | 1 | Hydraulic Oil Reservoir Assy. |
| 2 | 340465 | 1 | Filter Assembly | 46 | 341103 | i | Hydraulic Pump Assembly |
| 3 | 340621 | - | Replacement Oil Filter (hydraulic) | 47 | 340565 | 1 | Hydraulic Oil Dipstick |
| 4 | 340523 | 1 | Brass Hose BARB 1/2 x 3/4 | 48 | 740974 | 1 | Engine Kill Relay |
| 5 | 340526 | 3 | Brass Hose BARB 3/4 x 1 | 49 | 740108 | 1 | Time Delay |
| 6 | 340680 | 1 | 16 HP B.S. Vanguard Engine | 50 | 710008 | 1 | Screw, MC 6-32 x 1.25 |
| 7 | 341227 | | Replacement Air Filter | 51 | 710178 | 6 | Screw, MC 1/4-20 x .50 |
| 8 | 341228 | | Replacement Gas Filter | 52 | 711301 | 1 | Hex Nut 6-32 |
| 9 | 340681 | 1 | Muffler | 53 | 711319 | 8 | Hex Nut 5/16-18 |
| 10 | 340682 | 1 | Muffler Clamp | 54 | 711328 | 6 | Hex Nut 3/8-16 |
| 11 | 340683 | 1 | Aux. Oil Filter Assembly | 55 | 711368 | 5 | Nyloc Wing Nut 1/4-20 |
| 12 | 340693 | | Replacement Oil Filter (engine) | 56 | 711373 | 2 | Nyloc Nut 1/4-20 |
| 13 | 340684 | 1 | Vacuum Clutch | 57 | 711374 | 4 | Nyloc Nut 5/16-18 |
| 14 | 340685 | 1 | 5-Stage Vacuum Blower | 58 | 711377 | 4 | Lock Nut 1/4-20 |
| 15 | 340686 | 1 | 4 1/2" Pulley, 1" Bore | 59 | 711502 | 1 | Flat Washer #8 |
| 16 | 340688 | 1 | Belt, Hydraulic Pump | 60 | 711505 | 2 | Flat Washer 1/4 |
| 17 | 340689 | 1 | Exhaust Manifold | 61 | 711506 | 9 | Flat Washer 5/16 |
| 18 | 340690 | 1 | Aux. Oil Filter Adapter | 62 | 711508 | 8 | Flat Washer .44 x 1.00 x .06 |
| 19 | 340692 | 1 | Electrical Box Cover | 63 | 711516 | 4 | Flat Washer .31 x 1.25 x .05 |
| 20 | 340696 | 1 | 3/8" Brass Street 90 | 64 | 711544 | 14 | Lock Washer 1/4 |
| 21 | 340697 | 1 | 3/8" x 3 1/2" Brass Pipe | 65 | 711545 | 6 | Lock Washer 5/16 |
| 22 | 340698 | 1 | 3/8" Brass Cap | 66 | 711546 | 6 | Lock Washer 3/8 |
| 23 | 341002 | 1 | Blower Mount Weldment | 67 | 711548 | 1 | Lock Washer 7/16 |
| 24 | 341007 | 1 | Hose Bracket Weldment | 68 | 711565 | 3 | External Lock Washer 5/16 |
| 25 | 341011 | 1 | Battery Tray Weldment | 69 | 712562 | 2 | HH Bolt 1/4-20 x .75 SS |
| 26 | 341012 | 1 | Battery Clamp | 70 | 712810 | 1 | Screw MC 10-24 x 37 |
| 27 | 341013 | 1 | Battery Liner | 71 | 713000 | 6 | HH Bolt 1/4-20 x 1/2 (GR. 5) |
| 28 | 341027 | 1 | Muffler Brace | 72 | 713001 | 7 | HH Bolt 1/4-20 x 5/8 (GR. 5) |
| 29 | 341046 | 1 | Stop Throttle Cable | 73 | 713002 | 4 | HH Bolt 1/4-20 x 3/4 (GR. 5) |
| 30 | 341050 | 1 | Motor Frame Weldment | 74 | 713026 | 4 | HH Bolt 5/16-18 x 3/4 (GR. 5) |
| 31 | 341075MCH | 1 | 7" Multi-V Pulley | 75 | 713029 | 4 | HH Bolt 5/16-18 x 1 1/2 (GR. 5) |
| 32 | 341076 | 1 | Belt, Poly V 280J4 | 76 | 713042 | 4 | HH Bolt 3/8-16 x 1 (GR. 5) |
| 33 | 341077 | 1 | Pulley Spacer | 77 | 713060 | 1 | HH Bolt 5/16-20 x 3 (GR. 5) |
| 34 | 341087 | 1 | Exhaust Deflector | 78 | 740016 | 1 | 5/16 Ring Term. 16-14 AWG |
| 35 | 341090 | 1 | 1" I.D. Rubber Hose, 7 1/2" Lg. | 79 | 740033 | 3 | INS Male Term. 16-14 AWG |
| 36 | 341091 | 1 | 1" I.D. Rubber Hose, 3 3/4" Lg. | 80 | 740132 | 1 | Insulator |
| 37 | 341092 | 1 | 3/4" Steel Elbow | 81 | 740972 | 2 | 12V Bosch Relay |
| 38 | 341093 | 1 | 3/4" x 2 1/2" Pipe Nipple | 82 | 760245 | 6 | Hose Clamp |
| 39 | 341094 | 1 | Steel Washer, .469 x 1.375 x .250 | 83 | 761545 | 1 | 3/4 Steel Street 90 |
| 40 | 341096 | 1 | 1/2" Pipe Cap | 84 | 833621 | 1 | Key 1/4 x 1/4 x 1 |
| 41 | 341098 | 2 | Exhaust Manifold Gasket | 85 | 833638 | 1 | 1/4-20 Brass Stud |
| 42 | 341099 | 4 | Screw for Exhaust Manifold | 86 | 833864 | i | 3/4 Dia. Cable Clamp |
| 43 | 341100 | 1 | Spark Arrestor | 87 | 956700 | 1 | Battery 12V |
| 44 | 341101 | 4 | Screw for Deflector | | - | | . , |



| ITEM | PART NO | QTY | DESCRIPTION |
|--|---|---|--|
| 1TEM 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 6 17 8 19 11 12 13 14 15 6 17 8 19 10 11 12 13 13 13 13 13 13 13 13 13 13 13 13 13 | 711241 711546 711576 711375 712037 711328 340410 711809 340626 711506 712034 340560 340409 340627 710987 340628 340559 340408 711204 340413 340412 340629 712098 711204 340413 340412 340629 712055 712051 340553 340403 340588 340573 340572 340433 340435 711242 340402 711374 711230 340430 340431 | QTY 2224652622142222112433133111115111111 | BLT-HH 3/8-16 x .75 STPL WSR-Helical 3/8 WSR-Flat .38 x 1.12 x .06 Nut-Nyloc 3/8-16 7/16 x 20 1 1/4 BLT Nut-Hex 3/8-16 STPL Lever, Brake 1/8 x 1 Cotter Pin Link Brake WSR-Flat 5/16 STPL 7/16 x 14 Locknut Bolt, Special Spacer, Wheel Brake Band SCR-SC 3/8-16 x 1.50 STPL Brake Drum Wheel, Rear Plate, Wheel, Right BLT-HH 1/4-20 x .75 STPL Bracket, Spring, Left Bracket, Spring, Right Return Spring Clevis Pin Nut-Hex Jam 3/8-24 STPL Clevis Pin 7/16 x 20 Locknut Sheave Retainer Cable, Brake Adjustment, Brake Cable, Brake Mount, Brake BLT-HH 3/8-16 x 1.00 Pedal, Brake Nut-Nyloc 5/16-18 BLT-HH 5/16-18 x 1.00 STPL Bracket, Brake Link, Brake Link, Brake |
| 40 41 43 44 45 | 340434 711544 340432 340462 340405 | 1 2 1 1 | Bracket, Brake WSR-Helical 3/8 Rod, Brake Knob Undercarriage |
| | = | • | o.i.coroairiago |

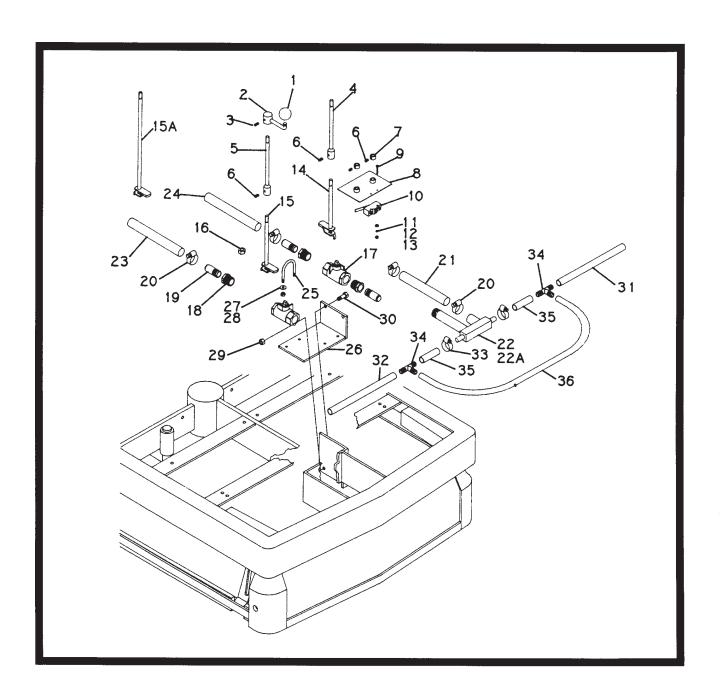


| ITEM | PART NO | QTY | DESCRIPTION | ITEM | PART NO | QTY | DESCRIPTION |
|------|------------|-----|---------------------------|------|---------|-----|--------------------------|
| 1 | 340001MCH1 | 1 | 340 Recycle Recovery Tank | 15 | 340463 | 4 | Clamp |
| 2 | 340071 | 1 | Filter 340 Recycle | 16 | 340668 | 1 | Hose Recycle Pump |
| 3 | 711369 | 1 | Nut-Wing 5/16-18 | 17 | 340551 | 3 | Pipe |
| 4 | 340069 | 1 | Cover Recycle Filter | 18 | 340468 | 2 | Bushing |
| 5 | 807901 | 1 | Bolt | 19 | 340669 | 1 | Pump Řecycle |
| 6 | 712680 | 1 | Nut-Hex 5/16-18 | 20 | 711505 | 7 | WSR-Flat 1/4 |
| 7 | 340067 | 1 | Gasket Recycle Filter | 21 | 711544 | 3 | WSR-Helical 1/4 |
| 8 | 340072 | 1 | Bracket Filter Weldment | 22 | 711373 | 4 | Nut-Nloc 1/4-20 |
| 9 | 711517 | 4 | WSR-Flat | 23 | 711204 | 3 | BLT-HH 1/4-20 x .75 STPL |
| 10 | 340064 | 1 | Gasket Filter Bracket | 24 | 340670 | 1 | Plate Pump Mount |
| 11 | 828945 | 1 | Bulkhead Fitting | 25 | 741111 | 1 | Solenoid 24V |
| 12 | 712810 | 4 | SCR-MC 10-24 x .37 | 26 | 340665 | 1 | Hose Recycle |
| 13 | 741110 | 1 | Float Turbine | 27 | 340065 | 1 | Coupling 1/2 NPT |
| 14 | 57-81-A | 2 | Fitting 1/2 x 1/2 EII 90 | | | | . • |



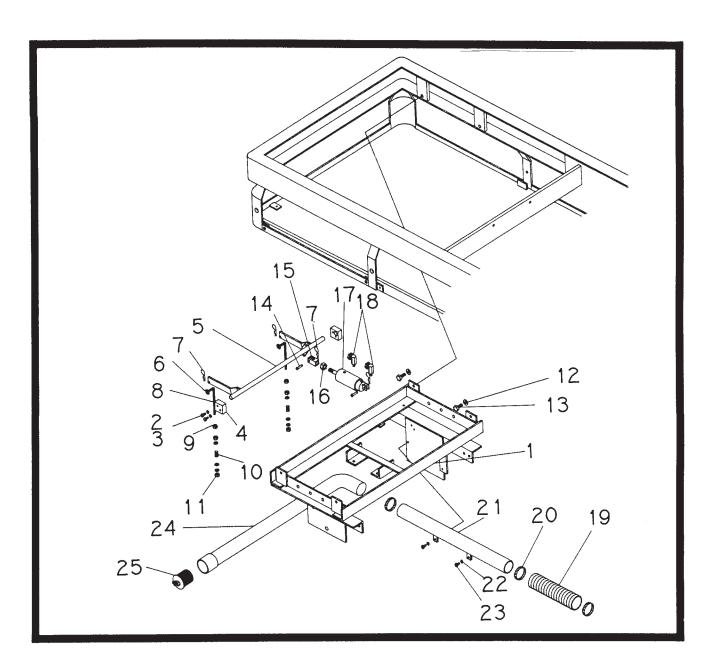
STEERING ASSEMBLY

| ITEM | PART NO | QTY | DESCRIPTION | ITEM | PART NO | QTY | DESCRIPTION |
|------|---------|-----|-------------------------|------|---------|-----|------------------------|
| 1 | 340477 | 1 | Cap, Steering | 21 | 340594 | 1 | Steering, Cover |
| 2 | 711337 | 1 | Nut, Hex 1/2-20 ST | 22 | 340557 | 1 | Holder, Bearing |
| 3 | 711509 | 1 | WSR, Flat 1/2 | 23 | 340610 | 1 | Shaft, Steering, Lower |
| 4 | 340471 | 1 | Wheel, Steering | 24 | 340556 | 1 | Adaptor, Steering |
| 5 | 340584 | 1 | Cover, Steering | 25 | 340612 | 1 | Chain, Short |
| 6 | 340499 | 1 | Woodruff Key 1/16 x 5/8 | 26 | 712047 | 2 | BLT-HH 1/2-13 x 1.50 |
| 7 | 340563 | 1 | Shaft, Steering, Upper | 27 | 711547 | 2 | WSR-Helical 1/2 |
| 8 | 340504 | 1 | Ball | 28 | 711210 | 1 | BLT-HH 1/4-20 x 1.25 |
| 9 | 340401 | 2 | Key | 29 | 340404 | 1 | Plate |
| 10 | 340417 | 1 | Slide, Tilt | 30 | 711505 | 1 | WSR-Flat 1/4 |
| 11 | 340583 | 1 | Extension, Knob | 31 | 711544 | 1 | WSR-Helical 1/4 |
| 12 | 711319 | 1 | Nut, Hex 5/16-18 ST | 32 | 340611 | 1 | ldler, Sprocket |
| 13 | 340494 | 1 | Spring, Park Brake | 33 | 340512 | 2 | Bearing |
| 14 | 340587 | 1 | Rod, Steering | 34 | 340457 | 1 | Spacer |
| 15 | 340418 | 1 | Pin, Steering | 35 | 340458 | 1 | Washer |
| 16 | 711234 | 1 | BLT-HH 5/16-18 x 2.00 | 36 | 340613 | 1 | Chain, Long |
| 17 | 711374 | 1 | Nut, Nyloc 5/16-18 | 37 | 710987 | 1 | SCR-SC 3/8-16 x 1.50 |
| 18 | 340562 | 1 | Coupling | 38 | 710822 | 1 | SCR-SC 1/4-20 x .37 |
| 19 | 711004 | 2 | SCR-SK 1/4-20 x .25 | 39 | 711234 | 2 | BLT-HH 5/16-18 x 2.00 |
| 20 | 340497 | 2 | Bearing | 40 | 711508 | 2 | WSR-Flat |



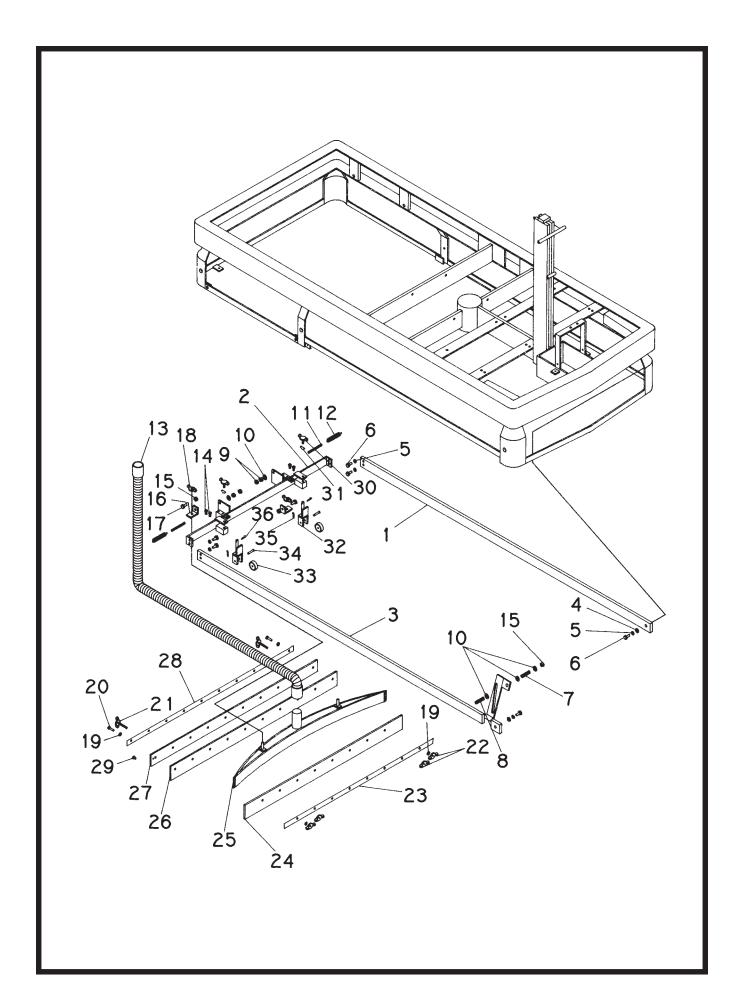
WATER VALVE ASSEMBLY

| ITEM | PART NO | QTY | DESCRIPTION | ITEM | PART NO | QTY | DESCRIPTION |
|------|---------|-----|----------------------|------|---------|-----|------------------------------------|
| 1 | 340552 | 2 | Knob | 19 | 340551 | 3 | Pipe |
| 2 | 340447 | 2 | Handle | 20 | 340463 | 2 | Clamp |
| 3 | 710822 | 2 | Set SCR 1/4-20 x .38 | 21 | 340660 | 1 | Hose |
| 4 | 340655 | 1 | Extension, Recycle | 22 | 340663 | 1 | Distributor, Water, Recycling Only |
| 5 | 340661 | 1 | Extension, Solution | 22A | 340568 | 1 | Distributor, Water, Non-Recycling |
| 6 | 711011 | 4 | Set SCR 1/4-20 x .25 | 23 | 340579 | 1 | Hose, Solution |
| 7 | 340656 | 2 | Collar | 24 | 340665 | 1 | Hose, Recycle |
| 8 | 340657 | 1 | Plate, Micro Switch | 25 | 340493 | 2 | U-Bolt |
| 9 | 710307 | 2 | SCR 6-32 x 1 | 26 | 340666 | 1 | Bracket, Valve |
| 10 | 340658 | 1 | Switch | 27 | 711544 | 4 | 1/4 Lock Washer |
| 11 | 711501 | 2 | #6 Flat Washer | 28 | 711316 | 4 | Nut 1/4-20 |
| 12 | 711541 | 2 | #6 Lock Washer | 29 | 711380 | 2 | Nut-Nyloc 3/8-16 |
| 13 | 711301 | 2 | Nut 6-32 | 30 | 711242 | 2 | Bolt 3/8-16 x 1 |
| 14 | 340659 | 1 | Rod, Recycle | 31 | 340569 | 1 | Hose, Left |
| 15 | 340662 | 1 | Rod, Solution | 32 | 340592 | 1 | Hose, Right |
| 15A | 340591 | 1 | Rod, Solution | 33 | 340506 | 1 | Clamp |
| 16 | 711446 | 2 | Nut 7/16-20 UNF | 34 | 341249 | 2 | 1/2 x 1/2 x 1/2 Hose BARB Tee |
| 17 | 340473 | 2 | Valve, Water | 35 | 341250 | 2 | 1/2 ID Clear Hose 2.5" |
| 18 | 340468 | 3 | Bushing | 36 | 341251 | 1 | 1/2 ID Clear Hose 11.5" |
| | | | - | 10 | | | |

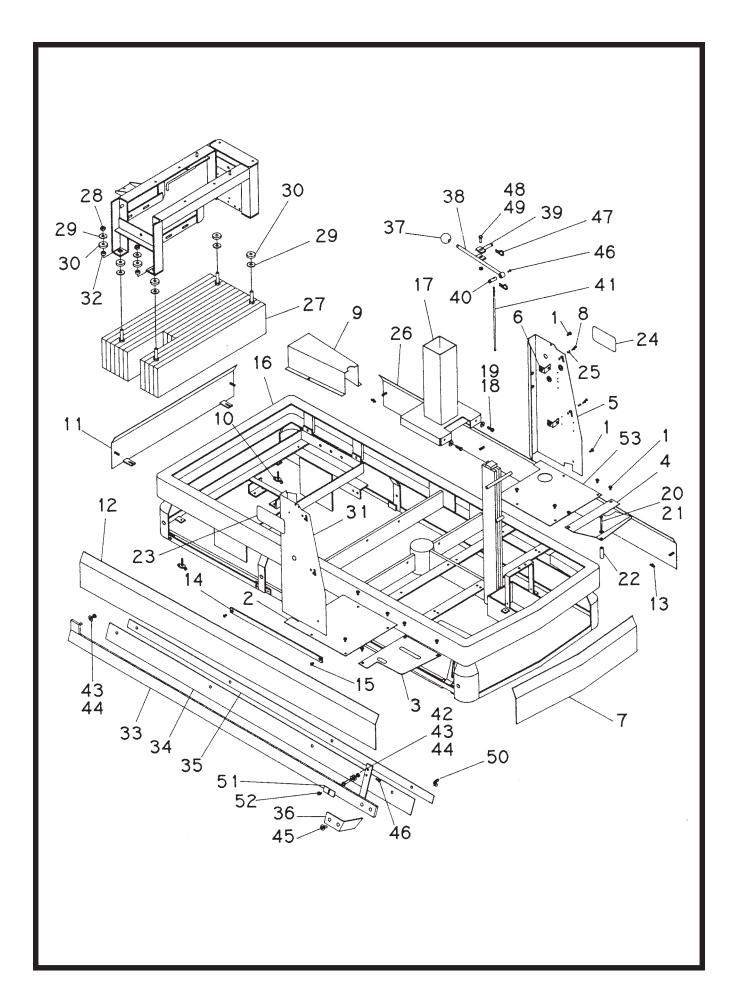


SQUEEGEE LIFT & VACUUM ASSEMBLY

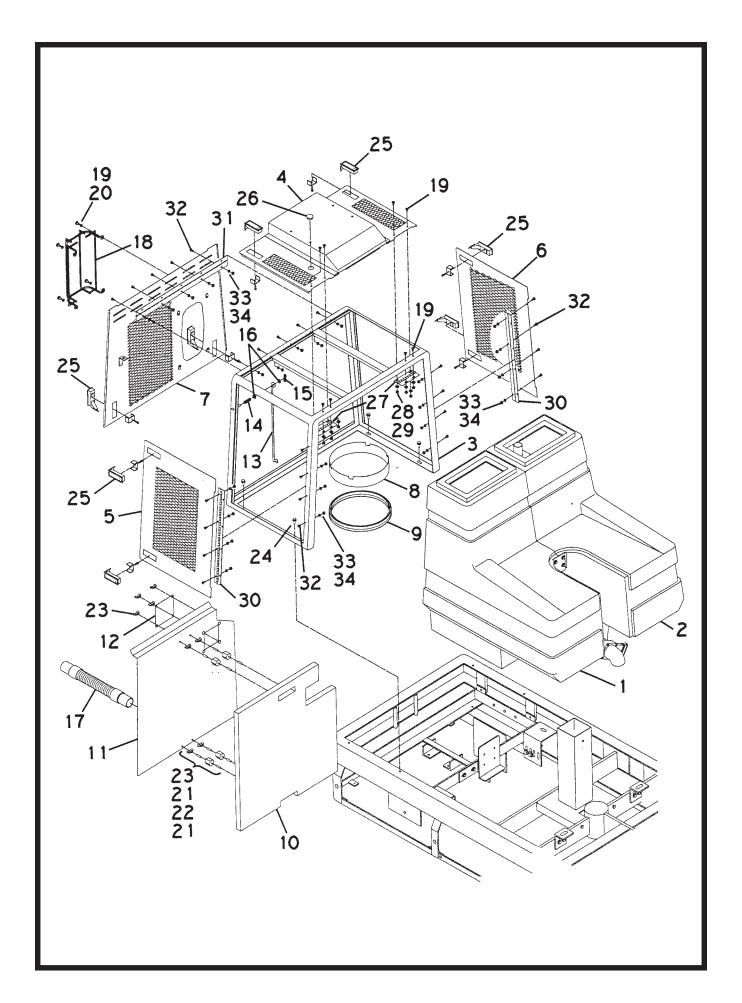
| ITEM | PART NO | QTY | DESCRIPTION | ITEM | PART NO | QTY | DESCRIPTION |
|------|---------|-----|---------------------|------|---------|-----|-------------------|
| 1 | 340405 | 1 | Under Carriage | 14 | 712098 | 2 | Clevis Pin |
| 2 | 711250 | 4 | Bolt 3/8-16 x 1.25 | 15 | 712055 | 1 | Clevis |
| 3 | 711546 | 4 | Lock Washer 3/8 | 16 | 711393 | 1 | Jam Nut 3/8-24 |
| 4 | 340406 | 2 | Squeegee Lift Mount | 17 | 340558 | 1 | Squeegee Cylinder |
| 5 | 340448 | 1 | Squeegee Lift | 18 | 340524 | 2 | Swivel Ell |
| 6 | 711506 | 8 | Flat Washer 5/16 | 19 | 340597 | 1 | Hose |
| 7 | 711809 | 4 | Cotter Pin | 20 | 340464 | 3 | Clamp |
| 8 | 340414 | 2 | Lift Rod | 21 | 340596 | 1 | Drain Tube |
| 9 | 711319 | 4 | Hex Nut 5/16-18 | 22 | 711544 | 2 | Lock Washer 1/4 |
| 10 | 340601 | 2 | Spring | 23 | 711202 | 2 | Bolt 1/4-20 x .50 |
| 11 | 711374 | 4 | Lock Nut 5/16-18 | 24 | 340598 | 1 | Drain Hose |
| 12 | 711547 | 4 | Lock Washer 1/2 | 25 | 750402 | 1 | Plug |
| 13 | 712010 | 4 | Bolt 1/2-13 x 1.00 | | | | • |



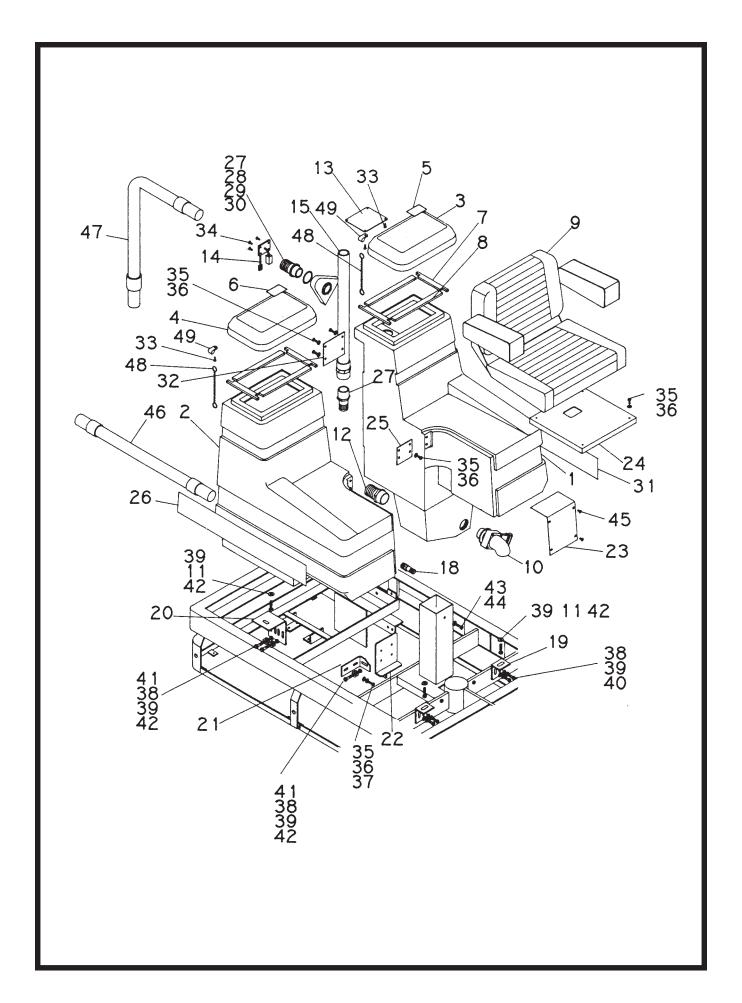
| ITEM | PART NO | QTY | DESCRIPTION |
|------|--|----------------------------------|---|
| 11 | 340439 340442 340440 711506 711545 711228 340576 340578 711328 711508 340575 340481 450054 711599 711375 340441 711242 711366 711207 712001 711368 340460 340618 340460 340618 340459 340616 340617 340461 710180 712002 340454 340450 340511 340630 711804 | 11126611452214322241111111222224 | Left Squeegee Lift Arm Rear Squeegee Lift Arm Right Squeegee Arm Flat Washer 5/16 Lock Washer 5/16 Bolt 5/16-18 x .75 Spring Spring Hex Nut 3/8-16 Flat Washer 3/8 Adjustment Rod Spring Hose Bolt, HD 1/4-20 x 1.00 Lock Nut 3/8-16 Squeegee Bracket Bolt 3/8-16 x 1.00 Wing Nut1/4-20 Flat Washer1/4-20 Bolt 1/4-20 x 1.00 Bolt, Wing 1/4-20 x 2.00 Wing Nut1/4-20 (nylon) Backup Strip Gum Rubber Squeegee Rear Squeegee Frame Gum Rubber Squeegee Rear Squeegee |
| 36 | 809799 | 2 | Hair Pin Clip |



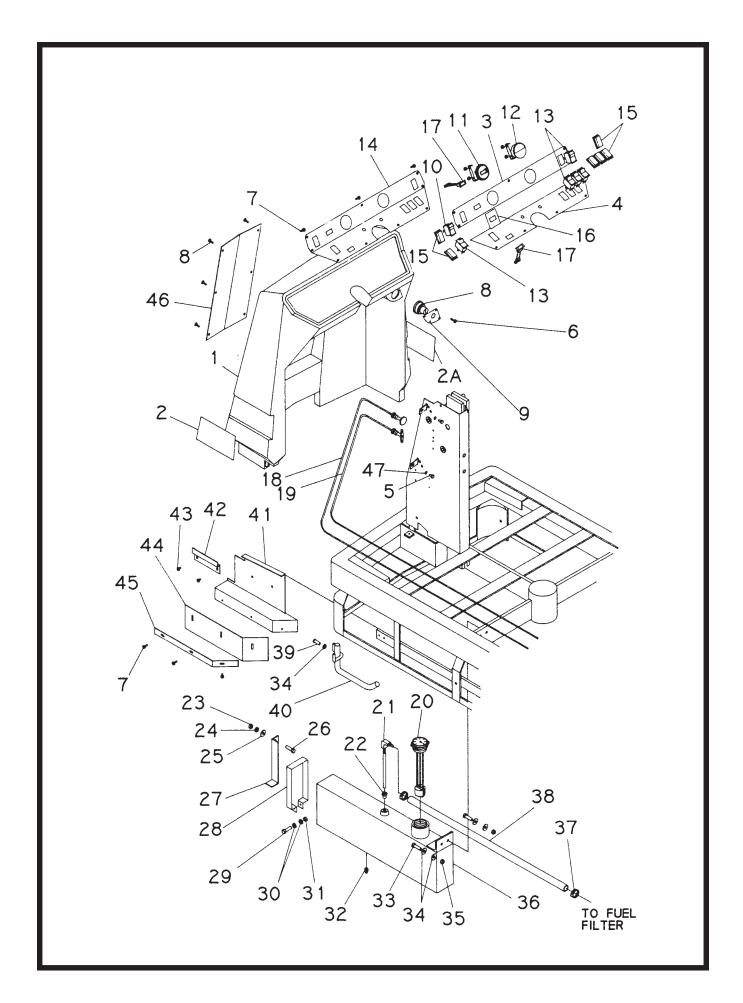
| ITEM | PART NO | QTY | DESCRIPTION |
|----------|------------------|--------|---|
| 1 | 710177 | 17 | SCR-MC 1/4-20 x .37 |
| 2 | 340581 | 1 | RH Rear Floor |
| 3 | 340015 | 1 | RH Floor Panel |
| 4 | 340014 | 1 | LH Floor Panel |
| 5 | 341049 | 1 | LH Column Enclosure |
| 6 | 340010 | 4 | Mounting Bracket |
| 7 | 340604 | 1 | Front Skirt |
| 8 | 712101 | 8 | BLT-HH 10-24 x .50 |
| 9 | 340582 | 1 | Chain Cover |
| 10 | 712055 | 4 | Wing Bolt 1/4 20 x 1 1/4 |
| 11 | 340605 | 1 | Rear Skirt |
| 12 | 340585 | 1 | Right Side Skirt |
| 13 | 711366 | 4 | Wing Nut 5/16-18 |
| 14 | 340407 | 3 | Frame Bracket |
| 15 | 710580 | 6 | 1/4 20 x 1/2 FH Socket Set |
| 16 | 340415 | 1 | Main Frame |
| 17 | 340022 | 1 | Seat Post Mounting Assembly |
| 18 | 711230 | 4 | BLT-HH 5/16-18 x 1.00 |
| 19 | 711545 | 4 | Helical Washer 5/16 |
| 20 | 711214 | 1 | BLT-HH 1/4-20 x 2.00 |
| 21 | 711505 | 1 | Flat Washer 1/4 |
| 22 | 809858 715202 | 1 1 | Spacer Side Squeegee Park Adj. Decal |
| 23 24 | 715202 | 1 | Tilt/Height Adj. Decal |
| 25 25 | 711553 | 8 | #10 Internal Tooth Lock Washer |
| 26 | 340607 | 1 | Left Side Skirt |
| 27 | 341021 | i | Motor Weight Weldment |
| 28 | 711376 | 4 | Lock Nut 1/2 x 13 |
| 29 | 711510 | 8 | Area Washer 1/2 |
| 30 | 341231 | 8 | Dampening Grommet |
| 31 | 340009 | 1 | RH Column Enclosure |
| 32 | 341232 | 4 | Rubber Spacer |
| 33 | 340444 | 1 | Side Squeegee Frame |
| 34 | 340577 | 1 | Squeegee |
| 35 | 340443 | 1 | Backup Strip |
| 36 | 340011 | 1 | Side Bar Guard |
| 37 | 340552 | 1 | Knob |
| 38 | 340436 | 1 | Side Squeegee Lift |
| 39 | 340437 | 1 | Side Squeegee Lift Pivot |
| 40 | 340438 | 1 | Cable Pin |
| 41 | 340574 | 1 | Side Squeegee Cable |
| 42 | 711250 | 1 | BLT-HH 3/8-16 x 1.25 |
| 43 | 711508 | 3 | Flat Washer .44 x 1.00 x .06 |
| 44 | 711375 710923 | 2 2 | Nyloc Nut 3/8-16 SCR-SC 5/16-18 x.62 |
| 45 46 | | 2 | SCR-MC 10-32 x .75 |
| 46 47 | 710357 711808 | 2 | Cotter Pin-Hair #3 |
| 48 | 711207 | 1 | BLT-HH 1/4-20 x 1.00 |
| 49 | 712667 | 1 | Hex Nut 1/4-20 SS Nyloc |
| 50 | 711367 | 4 | Wing Nut 3/8-16 |
| 51 | 340449 | 1 | Squeegee Adj. Bracket |
| 52 | 710178 | 1 | SCR-MC 1/4-20 x .50 |
| 53 | 341233 | 1 | LH Rear Floor |



| ITEM | PART NO | QTY | DESCRIPTION |
|------|---------|-----|-----------------------------|
| 1 | 340200 | 1 | Solution Tank Assembly |
| 2 | 340100 | 1 | Recovery Tank Assembly |
| 3 | 341030 | 1 | Door Frame Weldment |
| 4 | 341015 | 1 | Top Door Weldment |
| 5 | 341019 | 1 | Right Rear Door |
| 6 | 341018 | 1 | Left Rear Door |
| 7 | 341020 | 1 | Rear Door |
| 8 | 341079 | 1 | Air Intake Column |
| 9 | 341080 | 1 | Air Intake Column Gasket |
| 10 | 341028 | 1 | Firewall Insulation |
| 11 | 341045 | 1 | Firewall Weldment |
| 12 | 341029 | 1 | Float Door |
| 13 | 341078 | 1 | Kickstand |
| 14 | 833929 | 1 | Compression Spring |
| 15 | 809799 | 1 | 5/16" Hitch Pin |
| 16 | 711506 | 2 | 5/16" Flat Washer |
| 17 | 341074 | 1 | Blower Exhaust Hose |
| 18 | 340691 | 1 | Muffler Cover |
| 19 | 710178 | 12 | SCR-MC 1/4-20 x .50 |
| 20 | 711544 | 4 | 1/4 Lock Washer |
| 21 | 833638 | 8 | Brass Stud 1/4-20 x 1.00 |
| 22 | 740132 | 4 | Insulator (glastic) |
| 23 | 711368 | 8 | 1/4-20 Nyloc Wing Nut |
| 24 | 712042 | 4 | HH Bolt-Washer 5/16-18 x.63 |
| 25 | 341067 | 8 | Adjustable Lever Latch |
| 26 | 500043 | 1 | Hole Plug |
| 27 | 450112 | 2 | Top Door Hinge |
| 28 | 711505 | 8 | 1/4 Flat Washer |
| 29 | 711373 | 8 | 1/4-20 Nyloc Nut |
| 30 | 760349 | 2 | Side Door Hinge |
| 31 | 809171 | 1 | Rear Door Hinge |
| 32 | 712822 | 26 | 10-24 x .50 THM Screw |
| 33 | 711503 | 26 | #10 Flat Washer |
| 34 | 712638 | 26 | 10-24 SS Nyloc Nut |



| ITEM | PART NO | QTY | DESCRIPTION |
|--------|---------|-----|---------------------------|
| 1 | 340001 | 1 | Recovery Tank |
| 2 | 340002 | 1 | Solution Tank |
| 2 3 | 340006 | 1 | Recovery Tank Lid |
| 4 | 340005 | 1 | Solution Tank Lid |
| 5 | 715206 | 1 | Decal Recovery Tank |
| 6 | 715205 | 1 | Decal Solution Tank |
| 7 | 340057 | 4 | Lid Gasket Short |
| 8 | 340058 | 4 | Lid Gasket Long |
| 9 | 340498 | 1 | Seat |
| 10 | 900047 | 1 | 2" Waste Gate Valve |
| 11 | 340045 | 4 | 3/8 Stud |
| 12 | 340046 | 1 | 2" Barbed Fitting |
| 13 | 340017 | 1 | Screen - Tank Lid |
| 14 | 741110 | 1 | Float Switch |
| 15 | 340055 | 1 | Vacuum Riser Tube |
| 17 | 829257 | 1 | 1.5 Elbow 90° MPT/HB |
| 18 | 340047 | 1 | .75 Barbed Fitting |
| 19 | 341022 | 2 | Support - Tank Front |
| 20 | 341026 | 2 | Tank Support Ancor Rear |
| 21 | 341025 | 1 | Tank Ancor Bracket Center |
| 22 | 341023 | 1 | Tank Shelf Bracket |
| 23 | 340041 | 1 | Tank Pocket Cover |
| 24 | 340042 | 1 | Seat Mounting Pan |
| 25 | 340053 | 1 | Tank Match Plate |
| 26 | 715208 | 1 | Left Decal Minuteman 340 |
| 27 | 831812 | 2 | Adapter 1.5 MPT/HB |
| 28 | 831664 | 1 | Washer SS 2.12 ID |
| 29 | 830448 | 1 | Deflector |
| 30 | 828971 | 1 | Nut 1.5 Pipe Thread |
| 31 | 715211 | 1 | Right Decal Minuteman 340 |
| 32 | 340054 | 1_ | Tank Match Plate Rear |
| 33 | 828893 | 5 | Pop Rivet |
| 34 | 712810 | 4 | SCR-MC 10-24 x .37 RH |
| 35 | 711203 | 18 | BLT-HH 1/4-20 x .62 STPL |
| 36 | 711544 | 18 | WSR-Helical 1/4 |
| 37 | 711505 | 2 | WSR-Flat 1/4 |
| 38 | 711546 | 9 | WSR-Helical 3/8 |
| 39 | 711508 | 13 | WSR-Flat 3/8 |
| 40 | 711246 | 4 | BLT-HH 3/8-16 x .87 ST PL |
| 41 | 711242 | 5 | BLT-HH 3/8-16 x 1 STPL |
| 42 | 711375 | 9 | Nut-Nyloc 3/8-16 |
| 43 | 711229 | 2 | BLT-HH 5/16-18 x .87 STPL |
| 44 | 711545 | 2 | WSR-Helical 5/16 |
| 45 | 712540 | 4 | SC-MC 10-24 x .37 SS TH |
| 46 | 341073 | 1 | Hose Blower Intake |
| 47 | 450054 | 1 | Vac Recovery Hose |
| 48 | 340482 | 2 | Tank Chain |
| 49 | 250038 | 2 | Retainer Bag Clip |



| ITEM | PART NO | QTY | DESCRIPTION |
|----------|------------------|-----|--------------------------------|
| 1 | 340000MCH | 1 | Front Shroud/Dash |
| 2 | 715209 | 1 | Front Left Decal |
| 2A | 715212 | 1 | Front Right Decal |
| 3 | 715200 | 1 | Upper Dash Decal |
| 4 | 715201 | 1 | Lower Dash Decal |
| 5 | 711202 | 4 | BLT-HH 1/4-20 x .50 |
| 6 | 711161 | 4 | SCR-HI/LO #10 x .75 |
| 7 | 712822 | 18 | SCR-THMS 10-24 x .50 |
| 8 | 341083 | 1 | Key Switch |
| 9 | 340016 | 1 | Ignition Face Plate |
| 10 | 740800 | 1 | Switch |
| 11 | 740973 | 1 | Hour Meter |
| 12 | 740971 | 1 | Volt Gauge |
| 13 | 740801 | 2 | Switch |
| 14 | 340007 | 1 | Rider Dashboard 34B |
| 15 | 802657 | 3 | Switch Boot |
| 16 | 715214 | 1 | Recovery Tank Decal |
| 17 | 740868 | 1 | Recovery Tank Light |
| 18 | 341047 | 1 | Choke Handle and Cable |
| 19 | 341048 | 1 | Throttle Control and Cable |
| 20 21 | 341240 | 1 | Fuel Gauge |
| 22 | 341241 341242 | 1 | Suction Tube |
| 23 | 711319 | 1 | Bushing Hex Nut 5/16-18 |
| 24 | 711545 | 1 | Lock Washer 5/16 |
| 25 | 711506 | i | Flat Washer 5/16 |
| 26 | 711231 | i | BLT-HH 5/16-18 x 1.25 |
| 27 | 341243 | 1 | Tank Front Bracket |
| 28 | 341244 | 1 | Strap |
| 29 | 711207 | 1 | BLT-HH 1/4-20 x 1 |
| 30 | 711544 | 1 | Lock Washer 1/4 |
| 31 | 711316 | 1 | Hex Nut 1/4-20 |
| 32 | 341245 | 1 | Plug |
| 33 | 711241 | 2 | BLT-HH 3/8-16 x .75 |
| 34 | 711546 | 5 | Lock Washer 3/8 |
| 35 | 711328 | 2 | Hex Nut 3/8-16 |
| 36 | 341246 | 1 | Fuel Tank |
| 37 | 341247 | 2 | Clamp |
| 38 | 341248 | 1 | Fuel Line |
| 39 | 710986 | 1 | 3/8-16 x 1.00 Allen Head Bolt |
| 40 | 340653 | 1 | Skid Bar Weldment |
| 41 | 340080 | 1 | Skirt Assembly Bracket |
| 42 | 340082 | 1 | Z-Bracket |
| 43 | 710177 | 2 | SCR-TRHD 1/4-20 x .37 |
| 44 | 340083 | 1 | Splash Skirt |
| 45 | 340081 | 1 | Skirt Retainer |
| 46 | 340020 | 1 | Front Access Cover |
| 47 | 711554 | 4 | 1/4 Internal Tooth Lock Washer |

SQUEEGEE ADJUSTMENT

The one piece curved squeegee is designed to require a minimum of adjustment. Adjustment may be required to get optimum performance for different floors and conditions.

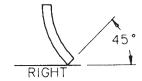
BASIC ADJUSTMENT:

- 1. Ensure that scrubber is on a relatively flat surface. Start scrubber and place squeegee switch in down position.
- 2. Carefully depress the direction control pedal enough to move the vehicle one or two feet forward, allowing the back gum rubber of the rear squeegee to deflect. Adjust nuts (item 1) so that the spring (item 2) is compressed to 1 3/4 inches (44 mm) with the squeegee down.
- 3. Lower squeegee wheels by turning wing bolts (item 3) until squeegee just touches the floor.

NOTE: Move vehicle forward one to two feet with each adjustment.

- 4. Adjust the tilt of the squeegee until center and ends are level to the floor, adjust bolts (item 4). **DO NOT** use excessive force, the bolts work in pairs, loosening front bolts and tightening the rear will cause the squeegee ends to raise and center to lower.
- 5. Once squeegee is level, lower squeegee with adjustment wing bolts (item 3) until 45° deflection is obtained along its entire length.







FINE ADJUSTMENT:

6. Check water pickup. If ends or center do not pick up properly, adjust tilt (item 4) to level squeegee. Adjust squeegee wheel height for driest floor (item 3).

For smooth floors, a smaller angle will leave a drier floor, turn wing bolt (item 3) clockwise to raise squeegee.

For rough floors, a larger angle will pull water from holes and cracks better, turn wing bolt (item 3) counter-clockwise to lower squeegee.

BRAKE ADJUSTMENT

This scrubber is equipped with mechanically activated drum type brakes on the rear wheels. A steel cable attached to the foot pedal runs to levers on each brake. Stretching of the cable may occur and adjustment needed.

- 1. Remove battery cover.
- 2. Adjust turnbuckle at end of front cable.
 IT IS **HIGHLY** IMPORTANT THAT ALL MOVING PARTS OF BRAKE SYSTEM BE KEPT THOROUGHLY LUBRICATED.

STEERING SYSTEM MAINTENANCE AND REPAIR

In general the chain reduction steering system is maintenance free. As in all mechanisms a lubricant should always be present. We recommend a good quality grease such as wheel bearing grease be applied liberally to the chain and sprockets periodically.

REMOVAL AND REPAIR

- 1. Remove chain guard and right side panel.
- 2. Remove tension adjusting screw and plate.
- 3. Remove the two 1/2-13 bolts that secure the steering column to frame.
- 4. Inspect sprockets for excessive wear. Excessive wear is usually indicated by the sprocket teeth forming very sharp points. If in question replace respective sprockets and chain assembly.
- 5. Inspect steering column bearings for excessive play, renew if necessary .
- 6. In the event sprockets are renewed the steering shaft alignment must be adjusted. Install new sprockets and shaft assembly into bearing housing steering column assembly. Do not tighten bearing locking collars at this time.
- 7. Install steering column assembly to frame using 1/2-13 bolts and tighten lightly. Install tension adjusting screw and plate. Remove excess chain slack. Using a straight edge to ensure that the sprocket teeth are in alignment. Tighten bearing locking collars and set screws.
- 8. Remove remaining slack in chain. **IMPORTANT:** Make sure that the steering shaft is perpendicular to the frame, ensuring equal chain contact on both sprockets. Tighten 1/2-13 bolts securely. Liberally grease chain assembly.
- 9. Install chain cover and side cover.

REMOVE AND REPLACE BRUSH DRIVE MOTORS

To remove a brush drive motor, use the following procedure:

- Remove brush drive assembly.
- 2. Disconnect hydraulic hose lines at brush motor ports.
- Remove four cap screws holding brush motor to mounting.
- 4. Note locations of water outlets.

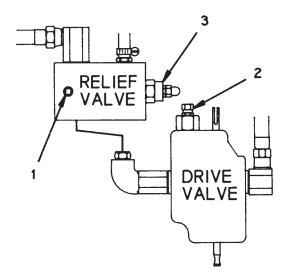
HYDRAULIC ADJUSTMENTS

Test equipment should include: a high pressure gauge with capabilities of measuring pressure up to 2,500 PSI; pressure gauge with capabilities no less than 150 PSI. Both gauges should also have the ability to thread into a 1/4 NPT female pipe thread. A high pressure hose or pipe adaptor can be used for this purpose.

ADJUST HYDRAULIC PRESSURE TO TRACTION DRIVE MOTORS

Before beginning test procedure, the following items should be acknowledged: account for all oil losses when changing fittings by checking oil reservoir level; all pressure readings must be taken at normal operating temperatures.

- Remove rear floor.
- Block front drive wheel such that the motor will stall when high forward pressures
 are applied. Additional constraints, such as a well constructed wall or immovable
 object at front frame, would be advantageous.
- 3. Remove plug from relief valve and install high pressure gauge.



- 4. Loosen lock nut on pressure adjustment and turn in 1 full turn.
- 5. Start motor and allow sufficient time for hydraulic system to reach operating temperature.
- 6. Carefully move direction control pedal to full forward position. Gauge pressure should read 1500 PSI. If not adjust main relief adjustment screw in to increase pressure, out to lower pressure, until correct gauge pressure is obtained. Lock screw in position.
- 7. While unit is still in full forward, back out the pressure adjustment screw on the drive spool valve body (item 2) slowly until the gauge pressure starts to drop. When a pressure drop is observed turn adjustment screw in only the amount required to return to 1500 PSI. Lock screw in position.
- 8. Return pedal to neutral, shut off, reinstall protective cover, remove gauge and install pipe plug (wrap plug with teflon tape before installing) in relief valve. Remove constraints.
- 9. Replace floor panels.

| PREVENTIVE MAINTENANCE | | | | | |
|------------------------------------|-----------------------|-------|---------|----------|----------|
| X = CHECK | R = REPLACE OR CHANGE | | | | |
| C = CLEAN | * = SEE NOTE | Daily | 50 Hrs. | 100 Hrs. | 200 Hrs. |
| Battery Water Level | | x | | | |
| Hydrometer Reading | | Х | 1 | | |
| Condition of Battery T | erminals | | X | | |
| Condition of Battery (| Connector | | Х | | |
| Hydraulic Oil Reservoir | | | X | | |
| Hydraulic Oil Filter | | | | | R |
| Lubricate Kingpin Bearing | | | Х | | |
| Lubricate Brake Cables and Linkage | | | X | | |
| Repack Rear Wheel Bearings | | | | R | |
| Squeegee Rubbers | | X | | | |
| Scrub Brushes | | Х | | R | |
| Wheel Drive Motor M | х | | | | |
| Recovery Tank | | С | | | |

ENGINE MAINTENANCE

| | Daily | 25 Hrs. | 50 Hrs. | 100 Hrs. | Yearly |
|-------------------------------|-------|---------|---------|----------|--------|
| Engine Oil Level | X | | | | |
| Engine Oil | | | R* | | |
| Engine Oil Filter | | | | R | |
| Service Air Pre-Cleaner | | C^ | | | |
| Service Air Cleaner Cartridge | | | | C^ | |
| Spark Arrester | | | Х | | |
| Cooling System | | | | C^ | |
| In-Line Fuel Filter | | | | | R |
| Spark Plug | | | | R | |
| Valve Clearance | | | | | Х |

NOTES:

* Change oil after first 8 hours, then after every 50 hours.
Change oil every 25 hours when operating under heavy load or high ambient temperatures.

^ Clean more often under dusty conditions or when airborne debris is present.

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

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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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