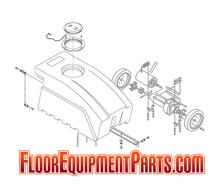
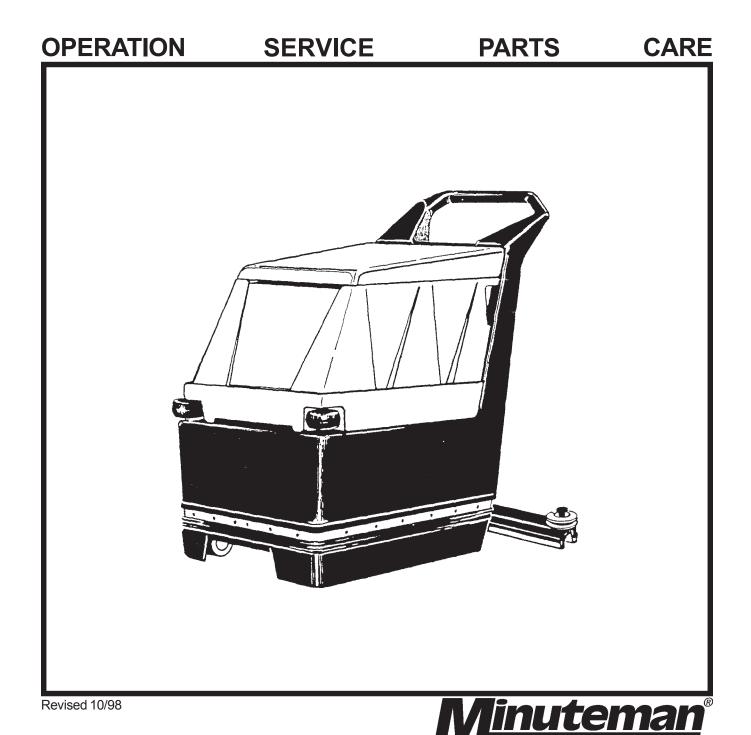
200TD Floor Scrubber Battery Traction Drive



Model: MC20025 MC20025CE



EC Declaration of Conformity

according to Directives 89/392, 89/336 and 72/73

We, Minuteman International Incorporated, of 111 South Rohlwing Road Addison Illinois 60101 USA, declare under our sole responsibility that the products MC20024CE, MC20025CE, MC20524, MC20525 Commercial Automatic Floor Scrubbing machines to which this declaration relates corresponds to the relevant requirements of the EC Directives 89/392, 89/336 and 72/73. The following standards were used to determine compliance with the Directives: EN 292, EN 294, EN 811, EN 55011, EN 55104, EN 50082-2, EN 60335-1 and IEC 335-2-72.

| SOU | ND | VIBRATION | | |
|----------|-------|-------------------------|--|--|
| 76 dB | 73 dB | .9 m/s ² | | |
| Operator | At 3m | At Operators Hand Grips | | |

Tests were conducted on 6/7/96 with calibrated sound and vibration equipment under the conditions noted below:

General Condition: Cloudy Temperature: 29°C

Wind: 0 km/hr Humidity: 85%

Barometric Pressure: 29.5

Kenneth Kaczmarz, Standards Engineer

Date

Form: EC009 Revision A

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| Electrical Components | 16, 17 & 18 |

IMPORTANT SAFETY INSTRUCTIONS

CAUTION

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

- Keep hands and feet clear of moving parts while machine is in operation.
- All switches must be in the "OFF" position when charging batteries.
- Electrical motors and components can cause an explosion when operated near explosive materials or vapors. Do not operate this machine near flammable materials such as solvents, thinners, fuels, grain dusts, etc.
- Make sure all switches are turned "OFF" and battery connections are removed before performing any maintenance procedures.
- Store or park this machine on a level surface only.
- These machines are designed for level floor operation only. DO NOT OPERATE on ramps or inclines.
- 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.
- This machine is not suitable for picking up hazardous dust.

Charging batteries generates explosive gases. 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.

Maintenance and repairs must be performed by authorized personnel.

SAVE THESE INSTRUCTIONS

ELECTRICAL REQUIREMENTS:

This piece of equipment operates on 24 Volt DC.

BATTERY REQUIREMENTS:

2 x 12V 185 Amp Hour 20 Hour Rate Deepcycle P/N 956709 2 x 12V 105 Amp Hour 20 Hour Rate Deepcycle P/N 956712 Use adapter 740699.

BATTERY SERVICE AND INSTALLATION:

* Warning: 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.

BATTERY INSTALLATION:

- 1. Disconnect tank drain hose from rear of machine.
- 2. Disconnect vacuum recovery hose.
- 3. Raise tank assembly by gripping side hand holds, and tilting forward.
- 4. Install batteries as shown in figure 2.

CHARGING OF BATTERIES:

Charging of batteries generates explosive gases. 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.

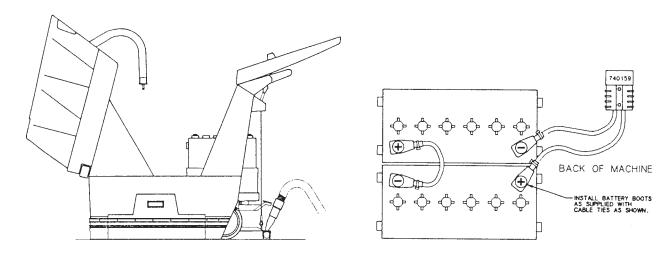
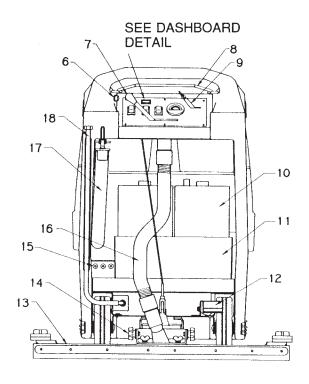
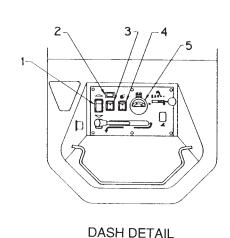


Figure 1 Figure 2

CONTROL PANEL IDENTIFICATION



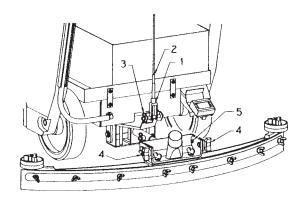


- 1. Forward/reverse switch
- 2. Power on indicator
- 3. Main power switch
- 4. Vacuum switch
- 5. Battery condition gauge
- 6. Speed control
- 7. Squeegee lift lever
- 8. Traction control
- 9. Solution control

- 10. Batteries
- 11. Battery box
- 12. Foot pedal for lowering/raising brush
- 13. Squeegee
- 14. Squeegee pitch control
- 15. Circuit breakers
- 16. Recovery hose
- 17. Recovery tank dump hose
- 18. Solution tank dump hose

SQUEEGEE PITCH CONTROL ADJUSTMENTS

Some minor adjustments may be required do to floor types and conditions to extend downward travel. Remove clevis pin (3) and unscrew Item 1 from Cable 2. To adjust pitch (angle) of squeegee loosen bolts 5 and knobs 4, squeegees angular position can now be changed for best performance.



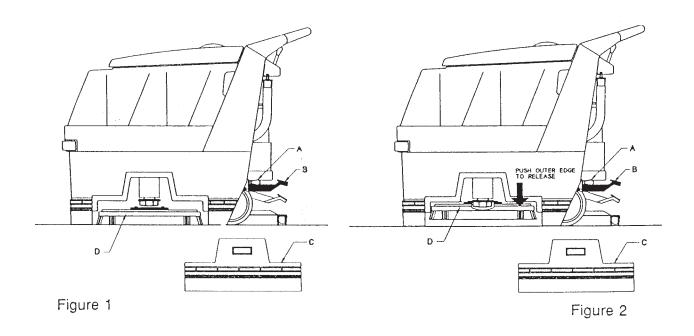
BRUSH INSTALLATION - REMOVAL

INSTALLATION - Figure 1

- 1. Disconnect batteries.
- 2. Raise brush mechanism (B) to the "up" position by depressing pedal downward as shown.
- 3. Remove side skirt (C) by lifting up and away.
- 4. Center brush (D) under machine as shown lining up center hex drive hub.
- 5. By releasing foot pedal (B) to lower brush mechanism, drive hub will engage.

REMOVAL - Figure 2

- 1. Disconnect batteries.
- 2. Raise brush mechanism (B) to "up" position by depressing pedal downward as shown.
- 3. Remove side skirt (C) by lifting up and away.
- 4. Brush has snap-on push-off clutch plate. By pushing brush away from machine and from side it will release brush assembly.



OPERATING INSTRUCTIONS

- Filling: Fill the solution tank with the desired amount of water and add liquid cleaning solution to the proper dilution ratio. DO NOT USE powdered cleaning chemicals. Powders are unlikely to dissolve thoroughly, resulting in clogging the in-line solution filter. This can reduce or stop water flow to the brush.
- 2. Close lid.
- 3. Turn on main power switch (Refer to Page 3 #3).
- 4. Adjust main speed control #6 to full counter-clockwise position and position switch #1 into forward position.
- 5. Lower brush assembly.
 - To lower the brush, first push the pedal slightly towards the center of the machine (unlock it), then release it slowly.
 - To lift the brush, press the pedal down until lift mechanism engages.
 - Brush will come on automatically when lever handle is raised and remain on approximately 5 seconds after release.
- 6. Adjust solution control feed lever.
- 7. Select vacuum operations.
 - "Vacuum on" mode
 Vacuum will remain on until switched to the "off" position
 - "Vacuum auto" mode
 Vacuum will come on automatically when lever handle is raised and remain on approximately 5 seconds after release.
- 8. Lower squeegee assembly.
- 9. Raise lever handle #8 and adjust forward speed.

After Use:

- 1. Turn off solution feed.
- 2. Raise squeegee assembly.
- 3. Turn off vacuum motor.

Solution and recovery tanks should be emptied after every use.

MAINTENANCE:

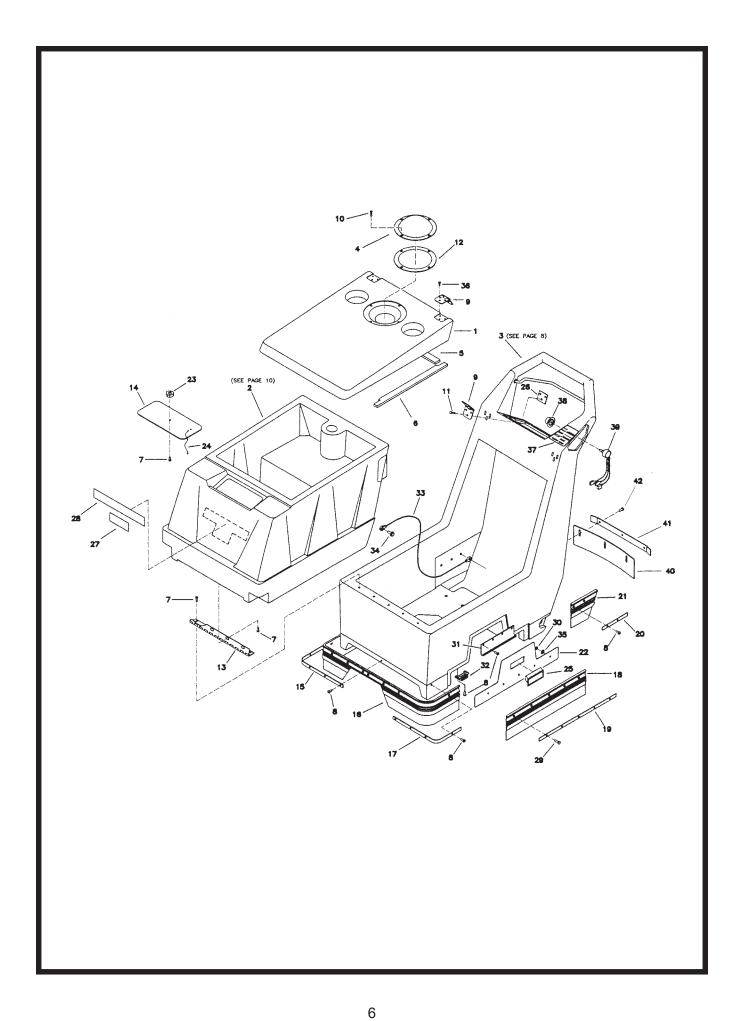
Daily

- 1. Clean float assembly & squeegee blades. Vac filter.
- 2. Recharge batteries (check battery acid levels before and after charging).

Monthly

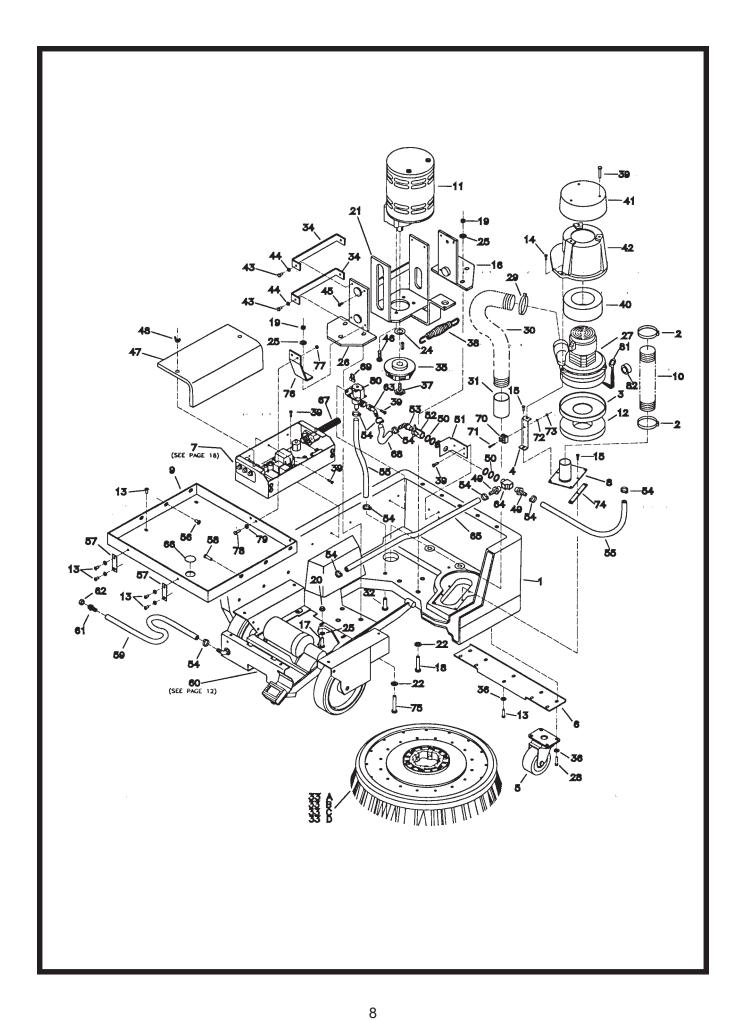
- 1. Check wear on squeegee blades.
- 2. Grease front wheels.
- 3. Grease pivot points on brush motor assembly.

Every 500 hours check condition of carbon brushes on vacuum motor and brush drive motor.



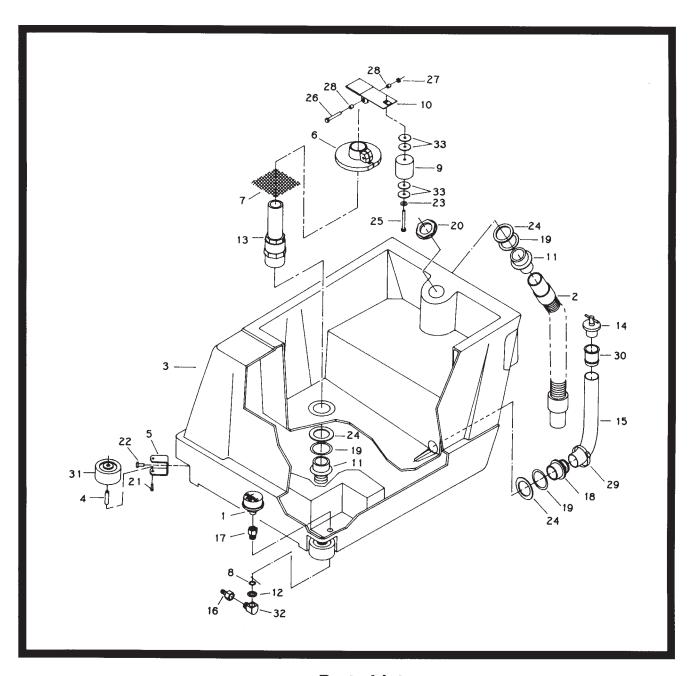
Parts List

| Item | Part No. | Qty. | Description |
|------|-----------|------|--------------------------------|
| 1 | 210002 | 1 | Lid Assembly Recovery |
| 2 | 210450 | 1 | Tank Assembly Complete |
| 3 | 210451 | 1 | Base Assembly Complete |
| 4 | 210004 | 1 | Recovery Dome |
| 5 | 210006 | 2 | Lid Gasket |
| 6 | 210007 | 2 | Lid Gasket |
| 7 | 710178 | 10 | SCR-MC 1/4-20 x .50 STPL |
| 8 | 711106 | 25 | SCR-ST-A 10 x .75 PL |
| 9 | 430044MCH | 2 | Hinge Lid 20" |
| 10 | 712540 | 4 | SCR-MC 10-24 x .37 SS TH |
| 11 | 712536 | 6 | SCR-MC 10-24 x .62 SS TH |
| 12 | 210005 | 1 | Dome Gasket |
| 13 | 260087 | 1 | Hinge |
| 14 | 450066 | 1 | Solution Tank Cover |
| 15 | 210055 | 1 | Side Skirt Retainer |
| 16 | 210052 | 1 | Splash Skirt |
| 17 | 210056 | 1 | Skirt Retainer Front |
| 18 | 210053 | 1 | Skirt at Access Panel |
| 19 | 210057 | 1 | Skirt Retainer at Access Panel |
| 20 | 210058 | 1 | Skirt Retainer at Wheel |
| 21 | 210054 | 1 | Skirt at Wheel |
| 22 | 210059 | 1 | Access Panel |
| 23 | 833214 | 1 | Knob 3-Sided |
| 24 | 450062 | 1 | Cord, Nylon |
| 25 | 210061 | 1 | Pocket Pull |
| 26 | 430126 | 2 | Hinge Backing Plate |
| 27 | 715089 | 1 | Decal "200" |
| 28 | 715060 | 1 | Decal "Minuteman" |
| 29 | 712822 | 5 | No. 10-24 x .50 Lg. Screw |
| 30 | 712900 | 5 | Nut-Hex 10-24 STPL |
| 31 | 210063 | 1 | Access Panel Hanger |
| 32 | 210027 | 2 | Magnetic Catch |
| 33 | 833436 | 1 | Tilt Cable |
| 34 | 712042 | 1 | 5/16-18 x .62 Wizz Bolt HH |
| 35 | 711553 | 5 | WSR-Internal Lock #10 |
| 36 | 712540 | 6 | SCR-MC 10-24 x .37 SS TR |
| 37 | 715614 | 1 | Decal Speed Control |
| 38 | 809874 | 1 | Knob |
| 39 | 740368 | 1 | Potentiometer Assembly |
| 40 | 210077 | 1 | Skirt |
| 41 | 210078 | 1 | Retainer |
| 42 | 711104 | 3 | SCR-ST 10 x .50 |



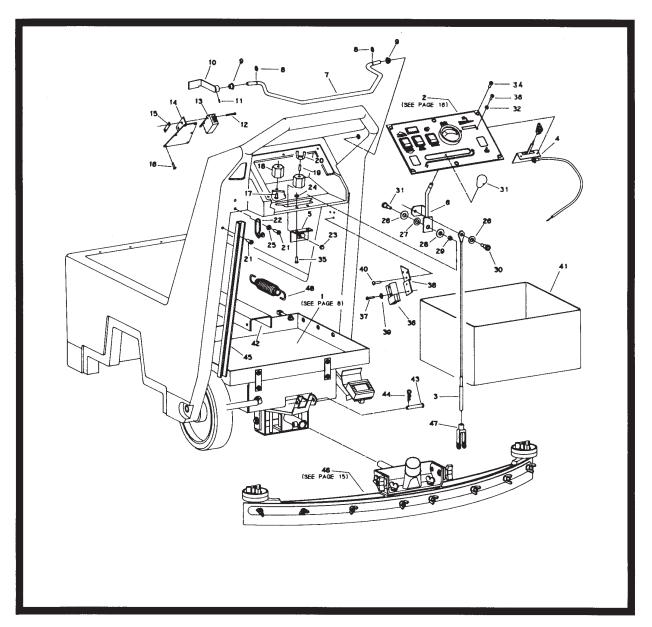
Parts List

| Item | Part No. | Qty. | Description |
|----------|------------------|--------|--|
| | | - | |
| 1 | 210119 | 1 | Base, Plastic Machined |
| 2 | 260203 | 2 | Hose Clamp Wire Grip |
| 3 | 290017 | 1 | Gasket 4.31 x 5.81 x .19 |
| 4 | 450038-H | 3 | Z-Bracket |
| 5 | 762333 | 2 | Caster 3.5" |
| 6 | 210010 | 1 | Caster Mounting Bracket |
| 7 | 210456 | 1 | Electrical Panel Assembly |
| 8 9 | 430069 210398 | 1 | Vacuum Manifold Assembly Battery Tray |
| 10 | 210074 | 1 | Vacuum Hose 1.5 x 31 C/L |
| 11 | 740209 | i | Gearmotor 24V |
| 12 | 460019 | i | Gasket 3.75 X 5.75 x .75 |
| 13 | 710178 | 8 | SCR-MC 1/4-20 x .50 STPL |
| 14 | 710182 | 3 | SCR-MC 1/4-20 x 1.00 |
| 15 | 711106 | 9 | SCR-ST-A 10 x .75 PL |
| 16 | 210040 | 1 | Motor Bracket Weldment |
| 17 | 711231 | 4 | BLT-HH 5/16 - 18 x 1.25 STPL |
| 18 | 711243 | 5 | BLT-HH 3/8-167 x 1.5 STPL |
| 19 | 711380 | 8 | Nut-Nyloc 3/8-16 |
| 20 | 711374 | 3 | Nut-Nyloc 5/16-18 |
| 21 22 | 210389 | 1 4 | Motor Mount Weldment WSR-Flat 5/16 STPL |
| 23 | 711506 711509 | 6 | WSR-Flat 1/2 STPL |
| 24 | 711503 | 1 | WSR-Flat .77 x 1.37 x .03 |
| 25 | 711515 | 6 | WSR-Flat .44 x .87 x .07 |
| 26 | 210397 | 1 | Motor Bracket Weldment |
| 27 | 740225 | 1 | Vac Motor 3ST24V 6515-13 |
| 28 | 710180 | 8 | SCR-MC 1/4-20 x .75 |
| 29 | 760859 | 1 | Hose Clamp |
| 30 | 210075 | 1 | Hose Rubber Flex 2 x 15" |
| 31 | 801013 | 1 | Sleeve, Hose |
| 32 | 832136 | 1 | Nylon Sleeve Solution Feed |
| 33A | 381041 | 1 | Strata-Grit Brush |
| 33B | 381040 | 1 | Polygrit Brush |
| 33C | 381039 | 1 | Nylon Brush Assembly Complete |
| 33D | 381038 | 1 | Pad Driver |
| 34 | 430106 | 2 1 | Stabilizer Bar Drive Hub |
| 35 36 | 430035 711505 | 10 | WSR-Flat 1/4 |
| 37 | 210066 | 1 | Drive Hub Retainer Bolt |
| 38 | 260211 | i | Extension Spring |
| 39 | 711106 | 13 | SCR-ST-A 10 x .75 |
| 40 | 380064 | 1 | Foam Ring |
| 41 | 840011 | 1 | Vac Motor Cover, Top |
| 42 | 840012 | 1 | Vac Motor Cover, Bottom |
| 42CE | 840012CE | 1 | Vac Motor Cover, Bottom CE |
| 43 | 711202 | 4 | BLT-HH 1/4-20 x .50 |
| 44 | 711535 | 4 | WSR-Helical 1/4 |
| 45 | 710823 | 2 | SCR-SC 1/4-20 x .50 Nylon |
| 46 47 | 710986 210402 | 4 1 | SCR-SC 3/8-16 x 1.00 Electrical Box Cover |
| 48 | 711368 | 2 | Wing Nut 1/4-20 |
| 49 | 342430 | 2 | Hose BARB 3/8 MPT x 3/8 BARB |
| 50 | 711579 | 6 | WSR-Flat .56 x .1.00 |
| 51 | 210370 | 1 | Solution Valve Bracket |
| 52 | 809413 | 1 | Solution Valve |
| 53 | 450040 | 1 | Elbow 3/8 MPT x 3/8 BARB |
| 54 | 450076 | 9 | Crimp Clamp SS 185R |
| 55 | 210401 | 2 | Solution Hose Nylon 12" |
| 56 | 710195 | 5 | SCR-MC 5/16-18 x .50 |
| 57 | 210399 | 2 | Mounting Tab |
| 58 | 710197 | 1 1 | SCR-MC 5/16-18 x .75 |
| 59 60 | 430118 210453 | 1 | Clear Dump Hose 24" Traction Drive Assembly |
| 61 | 828952 | 1 | 3/8 BARB x 1/4 MPT |
| 62 | 430114 | 1 | Nylon Cap 1/4 FPT HC4 |
| 64 | 210408 | i | 3/8 Brass Tee |
| 65 | 210403 | i | Hose Nylobraid 45" |
| 66 | 715615 | i | Stick-On Cover |
| 67 | 740550 | 1 | Wire Harness |
| 68 | 210419 | 1 | Solution Hose |
| 69 | 740482 | 1 | Diode Assembly |
| 70 | 832996 | 1 | Terminal Block |
| 71 | 710306 | 1 | SCR-MC 6-32 x .87 |
| 72 | 711542 | 1 | WSR-Helical 6 |
| 73 | 711301 | 1 | Nut-Hex 6-32 |
| 74 75 | 250041 | 1 1 | Seal Rubber .12 x .62 x 14.5 |
| 75 76 | 711244 210098 | 1 | BLT-HH 3/8-16 x 1.75 Reinforcing Bracket |
| 76 77 | 711373 | 2 | Nut-Nyloc 1/4-20 |
| 77 78 | 711204 | 2 | BLT-HH 1/4-20 x .75 |
| 80 | 740493 | 1 | Water Valve 24 VDC |
| 81 | 742281 | i | Ground Strap |
| 82 | 742254 | 1 | Torroid Ferrite |
| | | | |

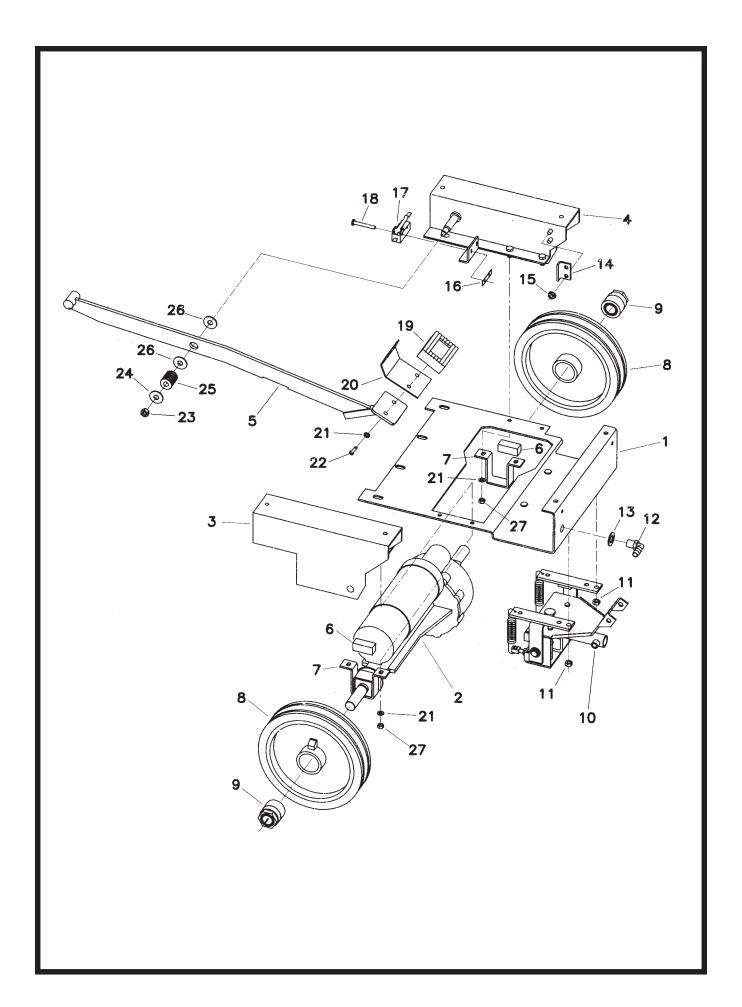


Parts List

| Item | Part No. | Qty. | Description | Item | Part No. | Qty. | Description |
|---|--|--|--|--|---|---|--|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | 130118 210068 210120 833254 832949 430041 430050 210414 430089 430090 450083 711513 210009 833316 210069 210410 | 1 1 1 2 2 1 1 1 1 2 1 1 1 1 1 1 | Solution Strainer M3-40 Vac Recover Hose 34.5 C/L Sol/Recovery Tank Bumper Wheel Axle U Bracket Wheel Mount Float Housing Filter Screen 4x4 O-Ring Float Float Valve Weldment Hose Adapter WSR-Flat .69 x 1.06 x .03 SS Standpipe Assembly Drain Plug 1 1/4 Black Drain Hose 32" C/L 3/8 Hose Barb x 3/8 FPT Brass | 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 | 760220MCH 450081 828971 710353 710985 711504 828970 712092 712568 712667 762384 760245 760343 832896 830062 712759 | 1 3 1 2 2 1 3 1 1 1 2 1 1 2 1 | 1 1/2 Adapter MCH (833310) WSR SS 1.908 x 2.41 x .03 Nut 1 1/2 Pipe Thread SCR-MC 10-32 x .37 STPL SCR-SC 3/8-16 x .62 WSR-Flat 1/4 ID SS WSR NEOP 1.81 x 2.37 x .9 SCR Nylon 1/4-20 x 2.5 SCR-MC 1/4-20 x 2.00 SS Nut-Hex 1/4-20 SS Nyloc Bushing .277 x .375 x .37 Hose Clamp 62P24 Tube Hose 24/32B Guide Wheel 90° Street Elbow 3/8 x 3/8 WSR-Flat .31 x 1.37 x .06 SS |
| 17 | 210409 | 1 | Adapter Brass 3/8 FPT x 3/8 MPT | - | • • | • | x 1107 x 100 00 |

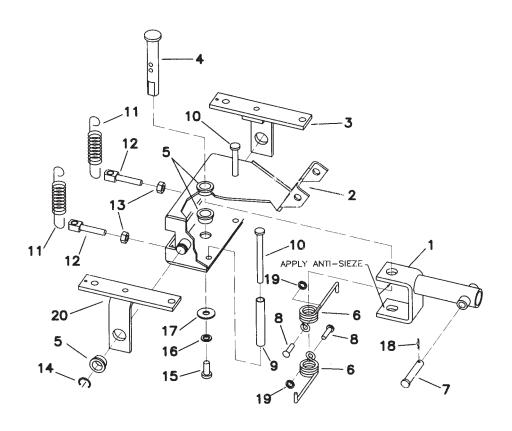


| Item | Part No. | Qty. | Description | Item | Part No. | Qty. | Description |
|------|----------|------|--------------------------------|------|----------|------|-----------------------------|
| 1 | 210451 | 1 | Base Assembly Complete | 25 | 711503 | 2 | WSR-Flat 10 |
| 2 | 210457 | 1 | Dashboard Assembly | 26 | 711506 | 2 | WSR-Flat 5/16 STPL |
| 3 | 210406 | 1 | Squeegee Lift Cable | 27 | 711523 | 1 | WSR-Wave .37 x .68 x .02 |
| 4 | 210045 | 1 | Solution Control Cable | 28 | 829014 | 1 | Flanged Bushing |
| 5 | 430059 | 1 | Squeegee Lift Bracket Assembly | 29 | 762058 | 1 | Spacer .319 x .375 x .250 |
| 6 | 430060 | 1 | Squeegee Lift Arm Assembly | 30 | 712041 | 2 | BLT-SDER 1/4-20 x .44 x .37 |
| 7 | 210363 | 1 | Wire Handle | 31 | 760592 | 1 | Knob Oval Tapered |
| 8 | 711721 | 2 | Retaining Ring | 32 | 712320 | 2 | WSR-Nylon .22 x .45 x .04 |
| 9 | 829052 | 2 | Nylon Flanged Bushing | 33 | 711124 | 2 | SCR-ST-B 10 x .37 NI |
| 10 | 210367 | 1 | Cam Assembly | 34 | 712822 | 6 | SCR-THMS 10-24 x .50 STPL |
| 11 | 711002 | 1 | SCR-SK 8-32 x .50 | 35 | 710180 | 2 | SCR-MC 1/4-20 x .75 STPL |
| 12 | 710307 | 2 | SCR-MC 6-32 x 1.00 | 36 | 740159 | 1 | SB175 Plug Red |
| 13 | 833329 | 1 | Micro Switch | 37 | 710383 | 2 | SCR-MC 1/4-20 x 1.25 |
| 14 | 210362 | 1 | Switch Bracket | 38 | 210072 | 1 | Anderson Plg. Bracket |
| 15 | 711430 | 1 | Tinnerman Clip | 39 | 711554 | 2 | WSR-Internal Lock 1/4 ID |
| 16 | 711161 | 6 | SCR-Hi/Lo 10 x 5/8 | 40 | 830504 | 3 | SCR 1/4 -14 x .75 PAN |
| 17 | 710178 | 2 | SCR-MC 1/4-20 x .50 STPL | 41 | 210048 | 1 | Battery Liner |
| 18 | 740132 | 2 | Insulator (Glastic) | 42 | 210064 | 1 | Battery Spacer |
| 19 | 833638 | 2 | Brass Stud | 43 | 210415 | 1 | Clevis Pin .312 x 1.69 |
| 20 | 711368 | 2 | Wing Nut 1/4-20, Nyloc | 44 | 711808 | 1 | Cotter Pin |
| 21 | 711161 | 4 | SCR HI/LO 10 x 3/4 PL | 45 | 430120 | 1 | U-Channel |
| 22 | 760286 | 1 | Wire Formed Hook | 46 | 210452 | 1 | Squeegee Assembly Complete |
| 23 | 711352 | 1 | Nut-Acorn 1/4-20 ST N1 | 47 | 881009 | 1 | Yoke |
| 24 | 711425 | 4 | Nut-Flanged Wizz 1/4-20 | 48 | 260211 | 1 | Extension Spring |



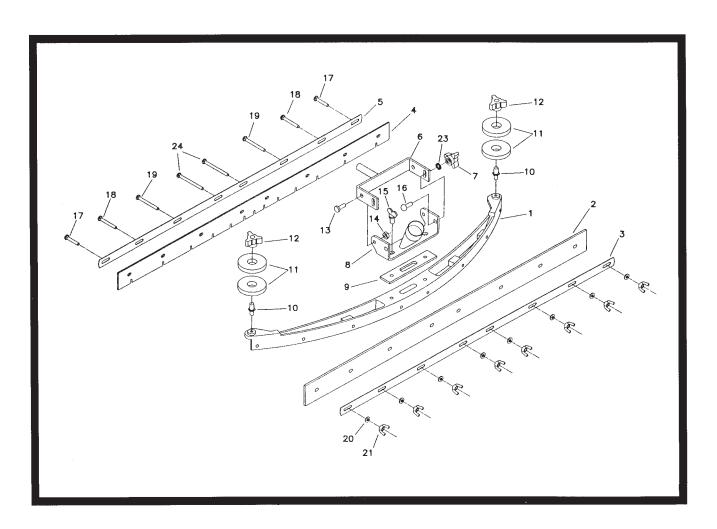
Traction Drive Assembly Parts List

| Item | Part No. | Qty. | Description |
|------|-----------|------|---|
| 1 | 210130 | 1 | Platform 200TD |
| 2 | 210129 | 1 | Transaxle |
| 3 | 210132 | 1 | Wheel Mount Strut LH |
| 4 | 210131 | 1 | Wheel Mount Strut RH |
| 5 | 210039 | 1 | Lift Lever Weldment |
| 6 | 210137 | 2 | Spacer Bar |
| 7 | 210133 | 2 | Mounting Bracket |
| 8 | 833305 | 2 | Wheel 8" Dia. |
| 9 | 833304 | 2 | Trantorque Hub |
| 10 | 210139 | 1 | Squeegee Mechanism Assembly |
| 11 | 711425 | 4 | Nut-Flanged Wizz 1/4-20 |
| 12 | 833325 | 1 | Elbow 1/4 MPT x 3/8 BARB |
| 13 | 711579 | 1 | WSR-Flat .56 x 1.00 |
| 14 | 210387 | 1 | Pedal Stop |
| 15 | 711373 | 2 | Nut-Nyloc ¼-20 |
| 16 | 711430 | 1 | Tinnerman Clip |
| 17 | 740129 | 1 | Switch |
| 18 | 710307 | 2 | SCR-MC 6-32 x 1.00 |
| 19 | 762294MCH | 1 | Pedal |
| 20 | 210076 | 1 | Foot Guard |
| 21 | 711544 | 6 | WSR-Helical ¼ |
| 22 | 711202 | 6 | BLT-HH 1/4-20 x .50 |
| 23 | 711380 | 1 | Nut-Nyloc 3/8-16 |
| 24 | 711509 | 1 | WSR-Flat ½ |
| 25 | 210047 | 1 | Die Spring |
| 26 | 210033 | 2 | Oilite Washer |
| 27 | 712667 | 4 | Nut 1/4-20 SS |
| *** | 210138* | | Traction Drive Assembly |
| | | | [Includes item nos. 1, 2, 3, 4, 6, 8, 9, 10, 11, 12, 13, 14, 15, 21(4), 22(4) and 27] |



210139 Parts List Squeegee Mechanism Assembly

| Item | Part No. | Qty. | Description |
|------|----------|------|-------------------------------|
| 1 | 210379 | 1 | Yoke Weldment |
| 2 | 210372 | 1 | Spring Housing Weldment |
| 3 | 210136 | 1 | Pivot Bracket Weldment, Right |
| 4 | 210375 | 1 | Swivel Pin |
| 5 | 260041 | 4 | 1/2 Oilite Bushing |
| 6 | 210391 | 2 | Torsion Spring SS |
| 7 | 210415 | 1 | Clevis Pin |
| 8 | 712536 | 2 | SCR-MC 10-24 x .62 |
| 9 | 210400 | 2 | Spacer Tube |
| 10 | 710592 | 2 | SCR-MC 1/4-20 x 2.75 |
| 11 | 210413 | 2 | Return Spring |
| 12 | 260292 | 2 | Swing Bolt |
| 13 | 711316 | 2 | Nut-Hex 1/4-20 |
| 14 | 711713 | 2 | 1/2 Retaining Ring |
| 15 | 710180 | 1 | SCR-MC 1/4-20 x .75 |
| 16 | 711535 | 1 | WSR-Helical 1/4 |
| 17 | 711519 | 1 | WSR-Flat .25 x 1.00 x .06 |
| 18 | 711808 | 1 | Cotter Pin |
| 19 | 712320 | 2 | WSR-Nylon .22 x .45 x .04 |
| 20 | 210135 | 1 | Pivot Bracket Weldment, Left |

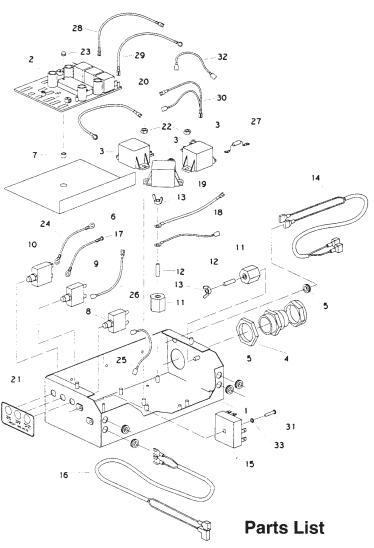


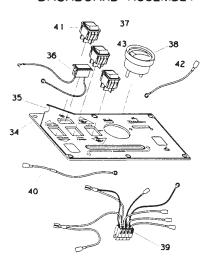
Parts List

| Item | Part No. | Qty. | Description |
|------|-----------|------|----------------------------|
| 1 | 210351MCH | 1 | Squeegee Casting |
| 2 | 210352 | 1 | Rear Squeegee Blade |
| 3 | 210353 | 1 | Rear Squeegee Strap |
| 4 | 210354 | 1 | Front Squeegee Blade |
| 5 | 210355 | 1 | Front Squeegee Strap |
| 6 | 210381 | 1 | Pitch Control Bracket |
| 7 | 210118 | 2 | Knob 3-Sided 5/16 Nyloc |
| 8 | 210357 | 1 | Tube Bracket |
| 9 | 210390 | 1 | Squeegee Gasket |
| 10 | 430075 | 2 | Threaded Insert |
| 11 | 430085 | 4 | Squeegee Bumper Wheel |
| 12 | 430074 | 2 | Adjusting Nut |
| 13 | 710975 | 2 | SCR-SC 5/16-18 x .87 BH |
| 14 | 711374 | 2 | Nut-Nyloc 5/16-18 |
| 15 | 260267 | 2 | Wing Bolt 3/8-16 x .75 |
| 16 | 70-516-16 | 2 | Bolt-CARR 5/16 x 1.00 |
| 17 | 712571 | 2 | Bolt-SS CARR 1/4-20 x 1.50 |
| 18 | 712572 | 2 | Bolt-SS CARR 1/4-20 x 2.00 |
| 19 | 712573 | 2 | Bolt-SS CARR 1/4-20 x 2.50 |
| 20 | 711504 | 8 | WSR-Flat .25 x .56 SS |
| 21 | 712668 | 8 | Wing Nut 1/4-20 SS |
| 22 | 210102 | 1 | Reinforcing Blade |
| 23 | 711539 | 2 | WSR-External Lock 3/8 |
| 24 | 712574 | 2 | Bolt-SS CARR 14-20 x 3.00 |
| | | | |

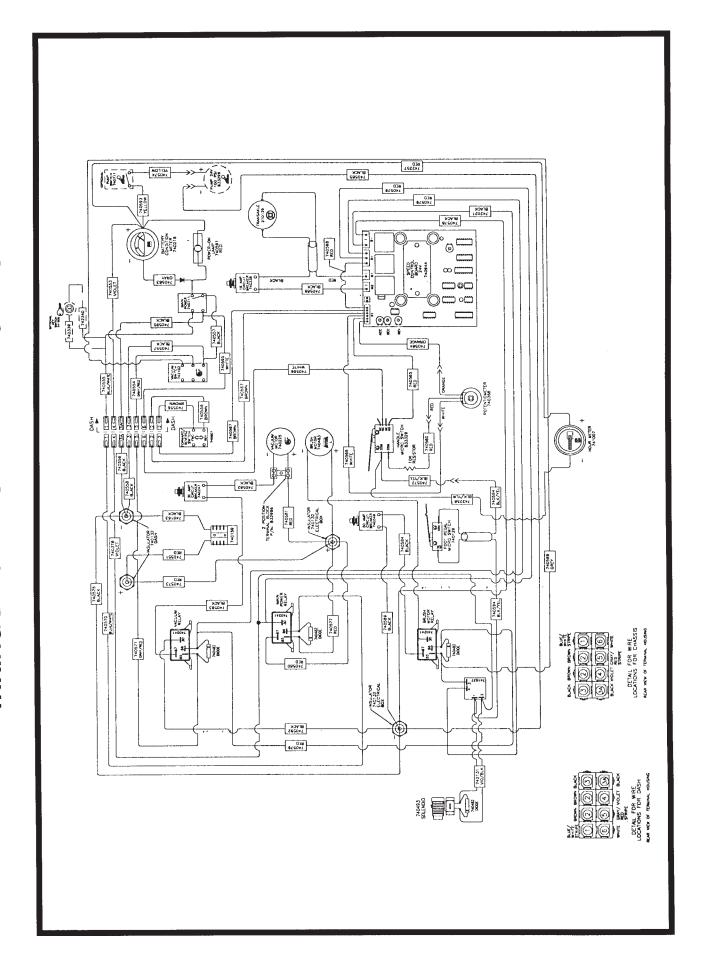
ELECTRICAL PANEL ASSEMBLY

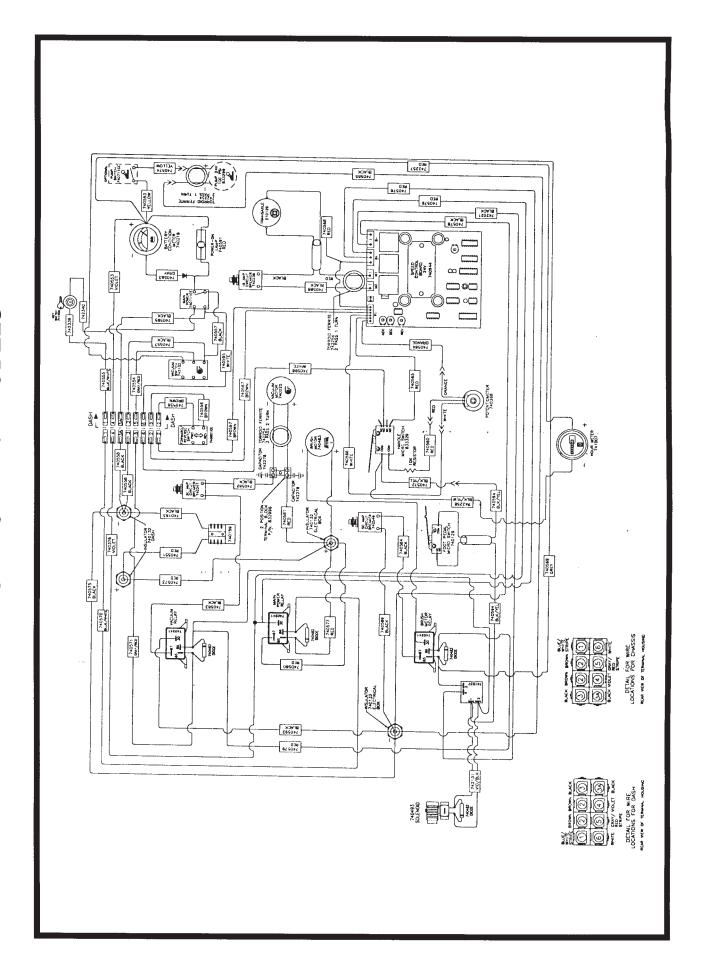
DASHBOARD ASSEMBLY





| Θ | | | | | | | |
|----------|----------|------|-------------------------------------|------|----------|------|---------------------------|
| Item | Part No. | Qty. | Description | Item | Part No. | Qty. | Description |
| 1 | 210404 | 1 | Electrical Box | 24 | 740589 | 1 | Black 8 GA Wire Assembly |
| 2 | 740944 | 1 | SCR Control Board 24V | 25 | 740588 | 1 | Black 14 GA Wire Assembly |
| 3 | 740241 | 3 | Contactor 24V 50 amp | 26 | 740583 | 1 | Black 14 GA Wire Assembly |
| 4 | 210405 | 1 | Heyco Liquid Tight Fitting | 27 | 740482 | 3 | Diode Assembly |
| 5 | 101008 | 5 | Rubber Grommet | 28 | 740576 | 1 | Red 10 GA Wire Assembly |
| 6 | 805637 | 1 | Fiber Insulator | 29 | 740578 | 1 | Black 10 GA Wire Assembly |
| 7 | 762073 | 2 | Spacer Bushing | 30 | 740579 | 1 | Red 14 GA Wire Assembly |
| 8 | 740238 | 1 | Circuit Breaker 18 amp | 31 | 712814 | 1 | SCR-MC 10-24 x .87 |
| 9 | 740247 | 1 | Circuit Breaker 30 amp | 32 | 742021 | 1 | Black 16 GA Wire Assembly |
| 10 | 740549 | 1 | Circuit Breaker 50 amp | 33 | 711553 | 1 | WSR-Internal Lock #10 |
| 11 | 740132 | 2 | Insulator | 34 | 210376 | 1 | Dashboard 200TD |
| 12 | 833638 | 2 | Brass Stud | 35 | 715716 | 1 | Decal |
| 13 | 711368 | 2 | Wing Nut 1/4-20 | 36 | 740591 | 1 | Panel Light Assembly |
| 14 | 742131 | 1 | Solenoid Wire Harness | 37 | 740711 | 2 | Switch |
| 15 | 741037 | 1 | 5 Sec. Delay Timer | 37CE | 740711CE | 2 | Switch, CE |
| 16 | 740594 | 1 | Black/Yellow 14 Gauge Wire Assembly | 38 | 740216 | 1 | Gauge Battery Condition |
| 17 | 740584 | 1 | Black 8 GA Wire Assembly | 39 | 740590 | 1 | Dashboard Wiring Harness |
| 18 | 740577 | 1 | Red 14 GA Wire Assembly | 40 | 740563 | 1 | Gray/Diode Wire Assembly |
| 19 | 740580 | 1 | Red 10 GA Wire Assembly | 41 | 740801 | 1 | Switch Rocker |
| 20 | 740592 | 1 | Black 10 GA Wire Assembly | 41CE | 740801CE | 1 | Switch Rocker, CE |
| 21 | 715613 | 1 | Decal Circuit Breakers | 42 | 740593 | 1 | Yellow Wire Assembly |
| 22 | 711316 | 6 | Nut-Hex 1/4-20 | 43 | 742102 | 1 | Switch 2 Position |
| 23 | 711372 | 2 | Nut-Nyloc 8-32 | | | | |





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.

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A potential health hazard exists without exact original equipment replacement.

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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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