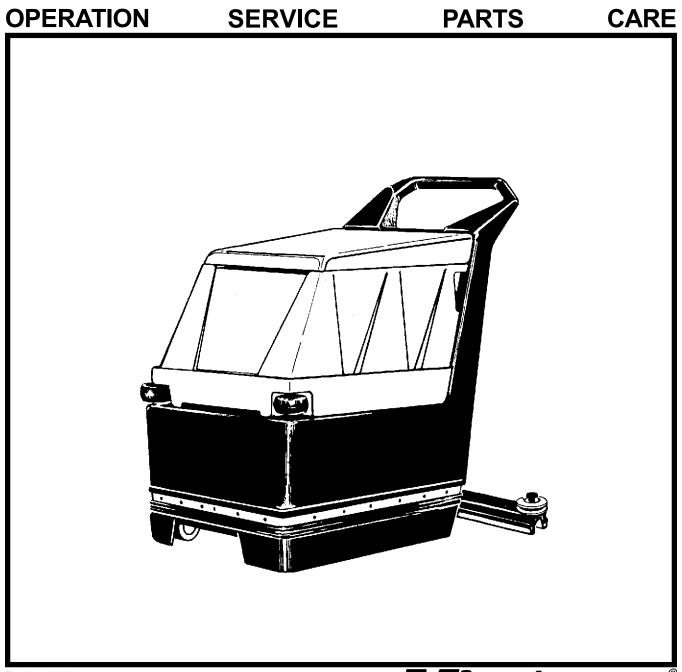
200 Floor Scrubber Electric Model: MC20115 MC20230 MC20230CE



Revised 8/03

**Minuteman**<sup>®</sup>

# **EC Declaration of Conformity**

according to Directives 72/23, 89/392, and 89/336

We, Minuteman International Incorporated, of 111 South Rohlwing Road Addison Illinois 60101 USA, declare under our sole responsibility that the product MC20230CE Commercial Automatic Floor Scrubber to which this declaration relates corresponds to the relevant requirements of the EC Directives 72/23, 89/392 and 89/336. The following standards were used to determine compliance with the Directives: EN 292, EN 294, EN 811, EN 55014, EN 55104 and IEC 335-1-72.

sou	IND	VIBRATION
83 dB	80dB	$2.5 \text{ m/s}^2$
Operator	At 3m	At Operators Handle

Tests were conducted on 4/21/97 with calibrated sound and vibration equipment under the conditions noted below:

General Condition: Indoors  $23^{0}C$ Temperature:

Wind: 0 km/hr Humidity: 70%

Barometric Pressure: 29.5

Jeff Pollack, Standards Engineer

Date

Form: EC025

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### FOR COMMERCIAL USE ONLY

## IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions should always be followed, including the following:

## READ ALL INSTRUCTIONS BEFORE USING

# **WARNING** - To reduce the risk of fire, electric shock, or injury:

Do not leave appliance when plugged in. Unplug from outlet when not in use and before servicing, cleaning or maintaining.

### **WARNING**

To reduce the risk of electric shock - Do not expose to rain. Store indoors.

- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- This machine shall be used only by instructed and authorized persons.
- Use only as described in this manual. Use only manufacturer's recommended attachments.
- Inspect cord regularly. Do not use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center. Use only cord specified by manufacturer.
- Do not pull or carry by cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners. Do not run appliance over cord. Keep cord away from heated surfaces.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Do not handle plug or appliance with wet hands.
- Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce airflow.
- Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
- Do not use without dustbag and/or filters in place.
- Turn off all controls before unplugging.
- Use extra care when cleaning on stairs.
- Do not use to pick up flammable or combustible liquids such as gasoline or use in areas they may be present.
- Connect to a properly grounded outlet only. See grounding instructions.
- This machine is not suitable for picking up hazardous dust.
- Close tank and lid before use.

## SAVE THESE INSTRUCTIONS

#### INSPECTION

Carefully unpack and inspect your machine 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.

#### **WARNING**

- Read Instruction Manual before operating this piece of equipment.
- To reduce the risk of fire, use only commercially available floor cleaners and waxes intended for machine application.
- To reduce the risk of electrical shock, do not expose to rain. Store indoors.
- Do not cross over supply cord, hazard exists when rotating brush passes over cord.
- Electrical motors and components can cause an explosion when operated near volatile materials and vapors. Do not use this machine near flammable materials such as solvents, thinners, fuels, grain dust, etc.

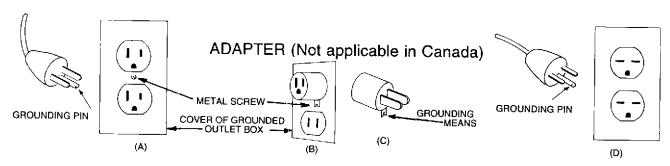
## **ELECTRICAL**

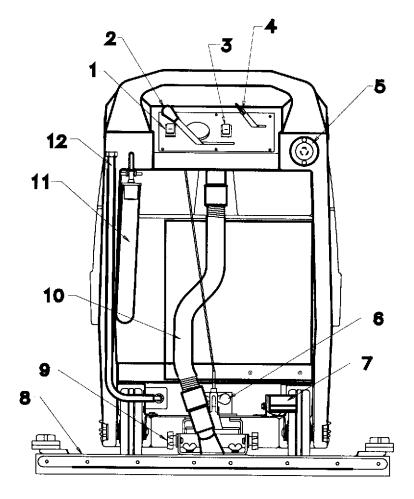
(Model MC20115) This floor machine is designed to operate on a standard 15 amp. 120 volt, 60 hz, AC circuit. Voltages below 105 volt AC or above 125 volts AC could cause serious damage to the motor.

(Model MC20230) This machine is designed to operate on a standard 16 amp type L fused 230 volt, 50 hz, AC circuit. Voltages below 200 volts AC or above 250 volts AC could cause serious damage to the motor I.E.C. Class 1.

## **GROUNDING INSTRUCTIONS**

- This floor finishing machine should be grounded while in use to protect the operator from electric shock. The machine is equipped with a three-prong grounding type attachment plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect this wire to other than the grounding blade.
- Floor finishing machines rated less than 150 volts If the machine is provided with an attachment plug as shown in Sketch A it is intended for use on a 120-volt (nominal) circuit. If a properly grounded receptacle as shown in Sketch A is not available, an adapter as shown in Sketch C is available and should be installed as shown in Sketch B if the outlet box that houses the receptacle is grounded. Be sure to fasten the grounding tab with the faceplate screw.



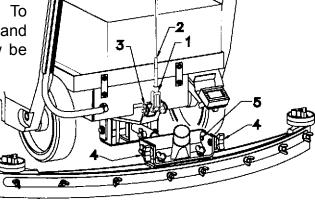


- 1. Vacuum switch
- 2. Squeegee lift lever
- 3. Brush switch
- 4. Solution control lever
- 5. Power connection cable
- 6. Power assist control

- 7. Foot pedal for lower/raising brush
- 8. Squeegee
- 9. Squeegee pitch control
- 10. Recovery hose
- 11. Recovery tank dump hose
- 12. Solution tank dump hose

#### SQUEEGEE PITCH CONTROL ADJUSTMENTS

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



#### **BRUSH INSTALLATION - REMOVAL**

#### **INSTALLATION - Figure 1**

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

#### REMOVAL - Figure 2

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

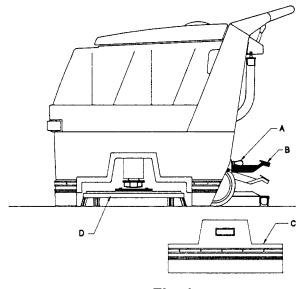


Fig. 1

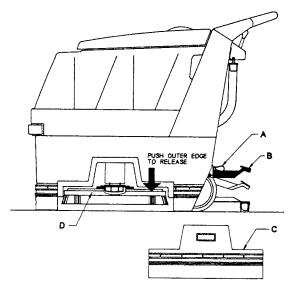


Fig. 2

#### **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. 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.
- 3. Turn on brush switch.
- 4. Adjust solution control feed lever.
- 5. Turn on vacuum switch.
- 6. Lower squeegee assembly.

After Use:

- 1. Turn off solution feed.
- 2. Switch off brush and raise.
- 3. Raise squeegee assembly.
- 4. Turn off vacuum motor.

Solution and recovery tanks should be emptied after every use.

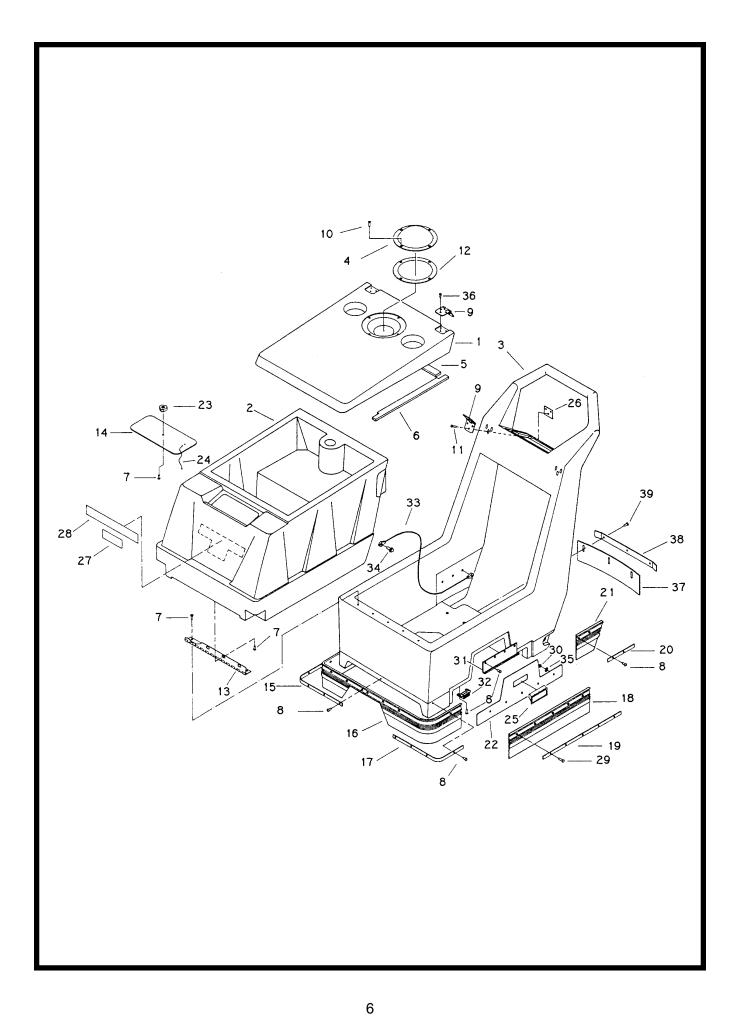
#### MAINTENANCE: Unplug from outlet before servicing.

Daily 1. Clean float assembly & squeegee blades.

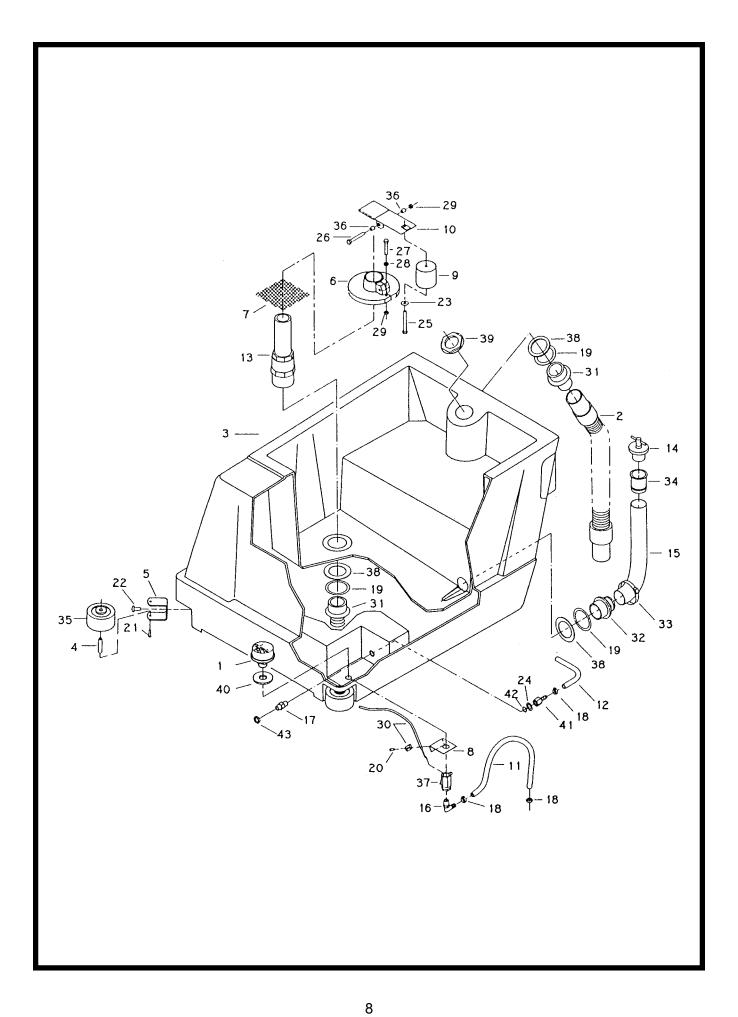
Monthly 1. Check wear on squeegee blades.

- 2. Grease rear wheels.
- 3. Grease pivot points on brush motor assembly.

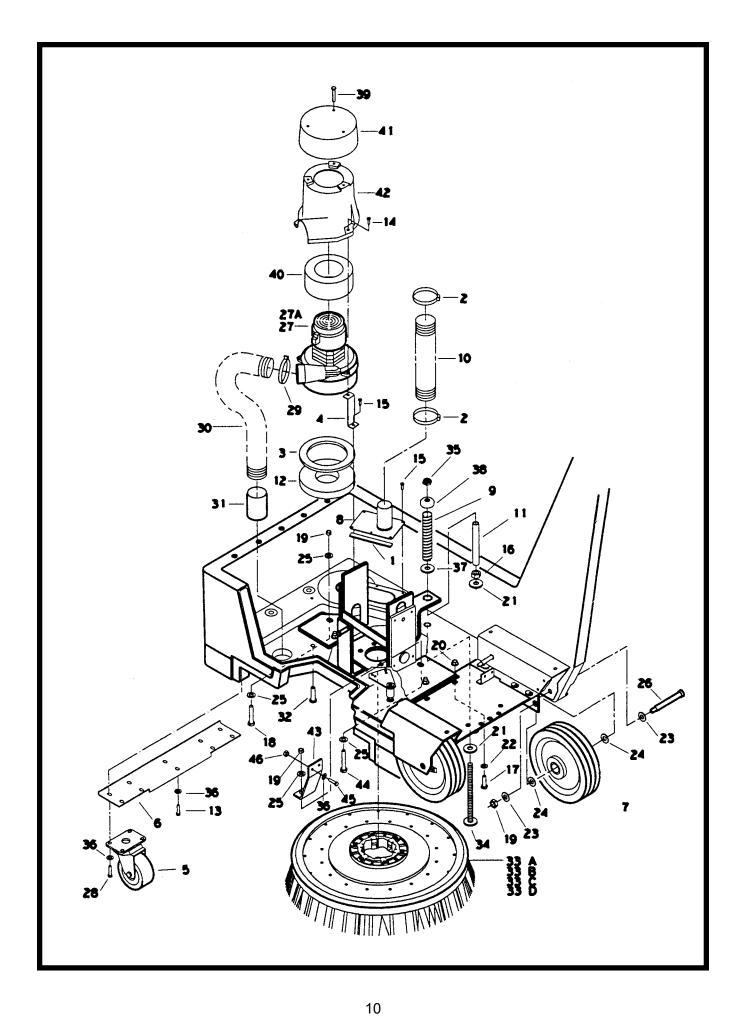
Every 500 hours check condition of carbon brushes on vacuum motor and brush drive motor.



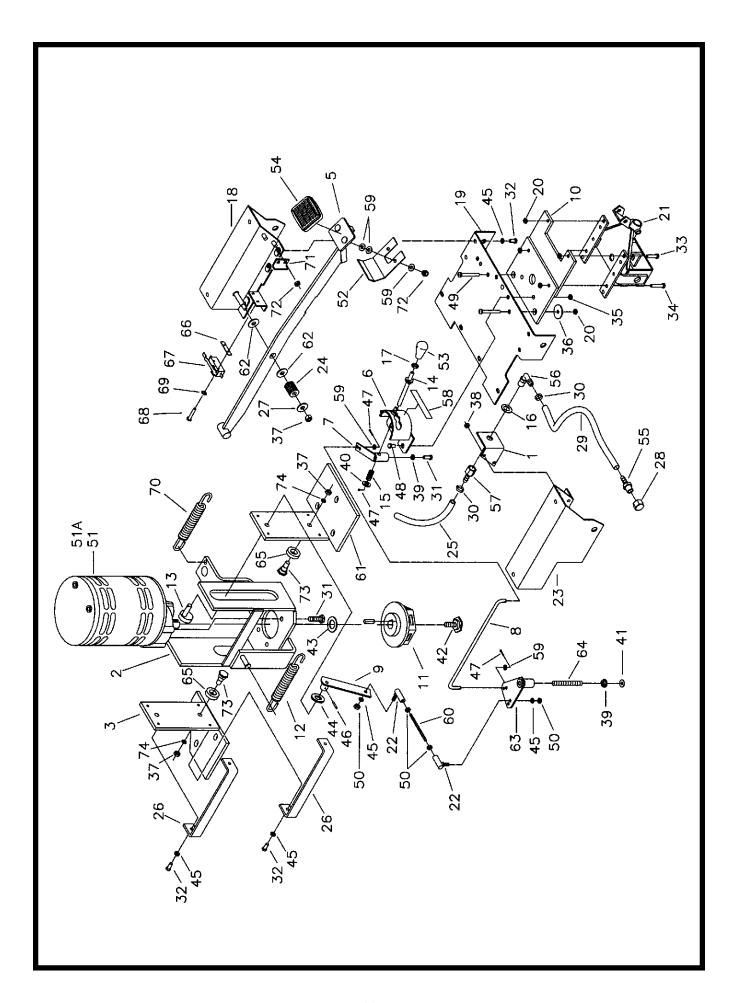
Item	Part No.	Qty.	Description
1	210002	1	Lid Assembly Recovery
2	210001MCH	1	20" Solution/Recovery Tank Assembly
3	210000MCH	1	20" Base Assembly
4	210004	1	Recovery Dome
5	210006	2	Lid Gasket
6	210007	2	Lid Gasket
7	712565	10	SCR-MC 1/4-20 x .62 SS
8	711106	25	SCR-ST-A 10 x .75 PL
9	430044MCH	2	Hinge Lid 20"
10	712810	4	SCR-MC 10-24 x .37 STPL
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	833463	1	Titl. Cable
34	712042	1	5/16-18 x .62 Wizz Bolt HH
35	711533	5	WSR-Internal Lock #10
36	712540	6	SCR-MC 10-24 x .37 SS TR
37	210077	1	Skirt
38	210078	1	Retainer
39	711104	3	SCR-ST 10 x .50



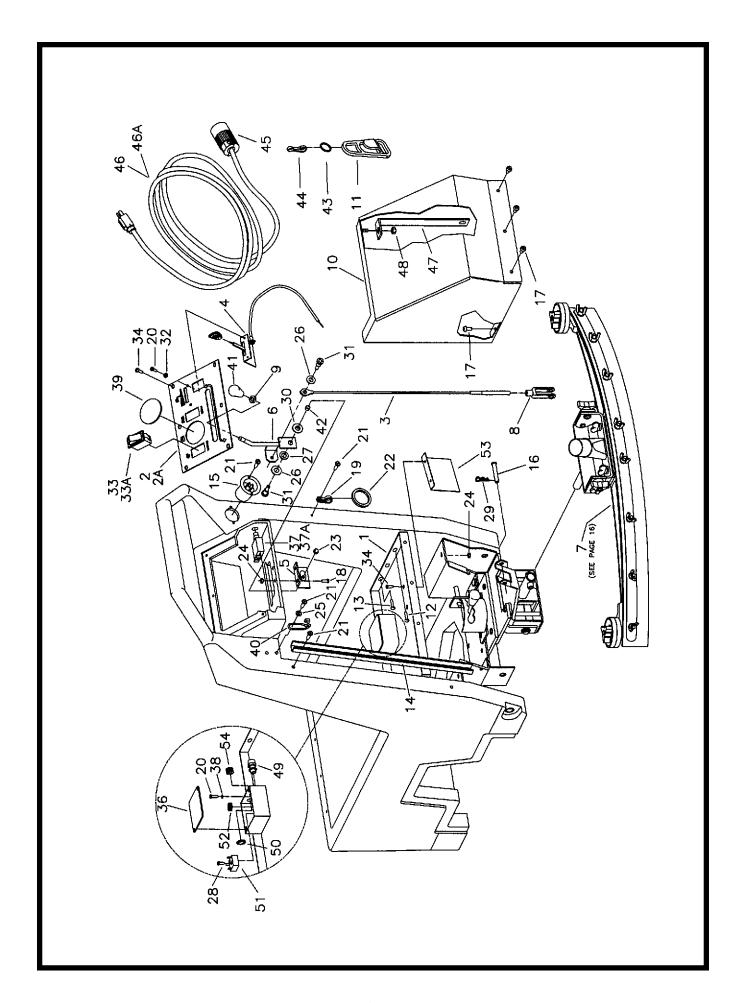
Item	Part No.	Qty.	Description
1	130118	1	Solution Strainer M3-40
2	210068	1	Vac Recover Hose 34.5 C/L
3	210001MCH	1	Sol/Recovery Tank Assembly
4	833254	2	Bumper Wheel Axle
5	832949	2	U-Bracket Wheel Mount
6	430041	1	Float Housing
7	430050	1	Filter Screen 4 x 4
8	430058	1	Sol. Valve Cable Mount
9	430089	1	Float
10	430090	1	Float Valve Weldment
11	450056	1	Solution Hose Nylon 21"
12	210073	1	Solution Dump Hose Nylon 41"
13	210079	1	Standpipe Assembly
14	833316	1	Drain Plug 1 1/4
15	210069	1	Black Drain Hose 32"
16	450040	1	Elbow Plt. 3/8 MPT x 3/8 Barb
17	450059	1	Brass Bulkhead Fitting
18	450076	2	Crimp Clamp SS 185R
19	450070	3	WSR SS 1.908 x 2.41 x .03
20	711124	1	SCR-ST-B 10 x .37 NI
21	710353	2	SCR-MC 10-32 x .37 ST PL
22	710333	2	SCR-SC 3/8-16 x .62
23	710985	1	WSR-Flat 1/4 ID SS
23 24	711594 711594	1	WSR-Flat .56 x .88 x .03 NI
2 <del>4</del> 25	711394	1	SCR Nylon 1/4-20 x 2.5
26 26	712567	1	SCR-MC 1/4-20 x 2.00 SS
20 27		1	SCR-MC 1/4-20 x 2:00 33 SCR-MC 1/4-20 x 1:50 SS
28	712569	1	
20 29	712665		Nut-Hex 1/4-20 SS
	712667	2	Nut-Hex 1/4-20 SS NYLOC
30	210045	1	Solution Control Cable
31	450083	1	Hose Adapter
32	760220MCH	1	1.5 Adapter MCH (833310)
33	760245	1	Hose Clamp 62P24
34	760343	1	Tube Hose 24/32B
35	832896	2	Guide Wheel
36	762384	2	Bushing .277 x .375 x .37
37	809413	1	Valve Solution
38	828970	3	WSR Neop 1.81 x 2.37 x .9
39	828971	1	Nut 1 1/2 Pipe Thread
40	828975	1	WSR Neop .75 x 1.5 x .90
41	833473	1	Hose Barn 1/4 FPT x 3/8 Barb
42	832326	1	O Ring
43	260183	1	1/4" NPT Plastic Nut



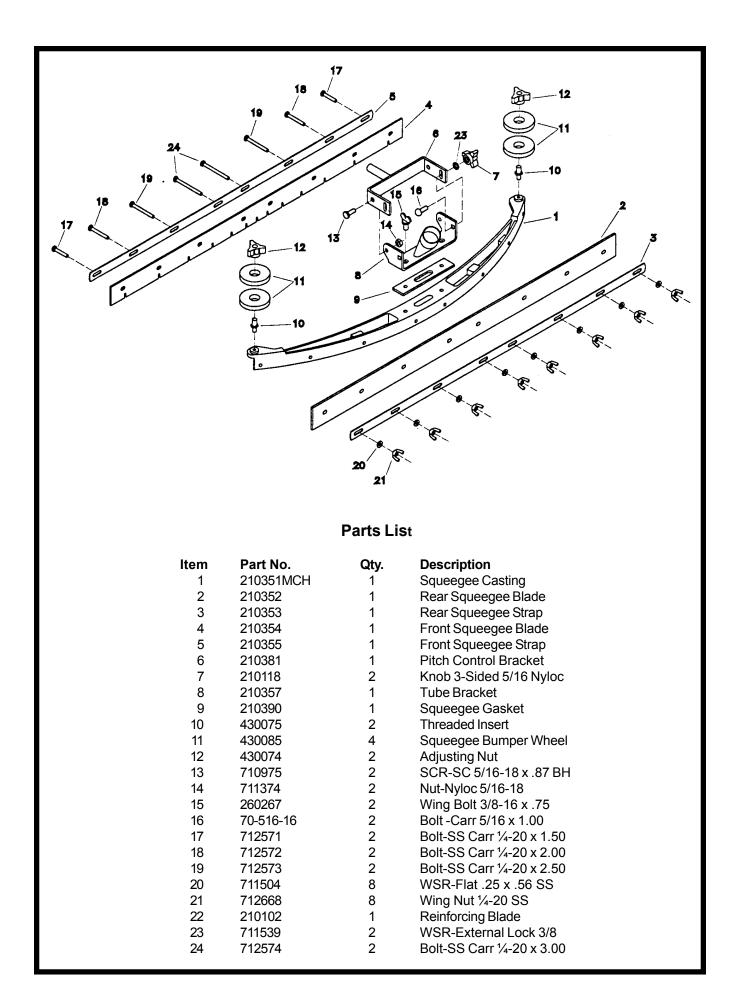
Item	Part No.	Qty.	Description
1	250041	1	Seal, Rubber .12 x .62 x 14.5
2	270249	2	Hose Clamp
3	290017	1	Gasket, 4.31 x 5.81 x .19
4	430018	3	Z Bracket
5	762333	2	Caster 3.5"
6	210010	1	Caster Mtg. Brkt.
7	210003	2	8" Wheel
8	430069	1	Vacuum Manifold Assembly
9	828301	1	Spring Squeegee Pressure
10	210074	1	Vacuum Hose 1.5 x 31 C/L
11	430148	1	Sleeve
12	460019	1	Gasket 3.75 x 5.75 x .75
13	710178	2	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	711437	1	Nut-Hex 1/2-13 NIPL
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	711425	3	Nut-Flanged Wizz 1/4-20
21	711510	2	WSR-Flat .5 x 1.37 x .10
22	711506	4	WSR-Flat 5/16 STPL
23	711509	6	WSR-Flat 1/2 STPL
24	711517	4	WSR-Flat .77 x 1.37 x .03
25	711515	6	WSR-Flat .44 x .87 x .07
26	710874	2	SCR-SC 1/2 x 13 x 3.75
27	740429	1	Vac Motor 115V Model
27A	741030	1	Vac Motor 240V Model
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	Poly-Grit Brush
33C	381039	1	Nylon Brush Assembly Complete
33D	381038	1	Pad Holder
34	430145	1	Pressure Adjust Rod
35	364-816	1	Nut-Nyloc 1/2-13 Half
36	711505	11	WSR-Flat 1/4
37	711512	1	WSR-Flat .75 x 1.37 x .08
38	828264	1	Washer Cup
39	711160	3	#10 Hi/Lo Screw x .63
40	380064	1	Foam Ring
41	840011	1	Vac Motor Cover, Top
42	840012	1	Vac Motor Cover, Bottom
43	210098	1	Reinforcing Bracket
44	711244	1	BLT-HH 3/8-16 x 1.75
45	711204	1	BLT-HH 1/4-20 x .75
46	711373	1	Nut-Nyloc 1/4-20

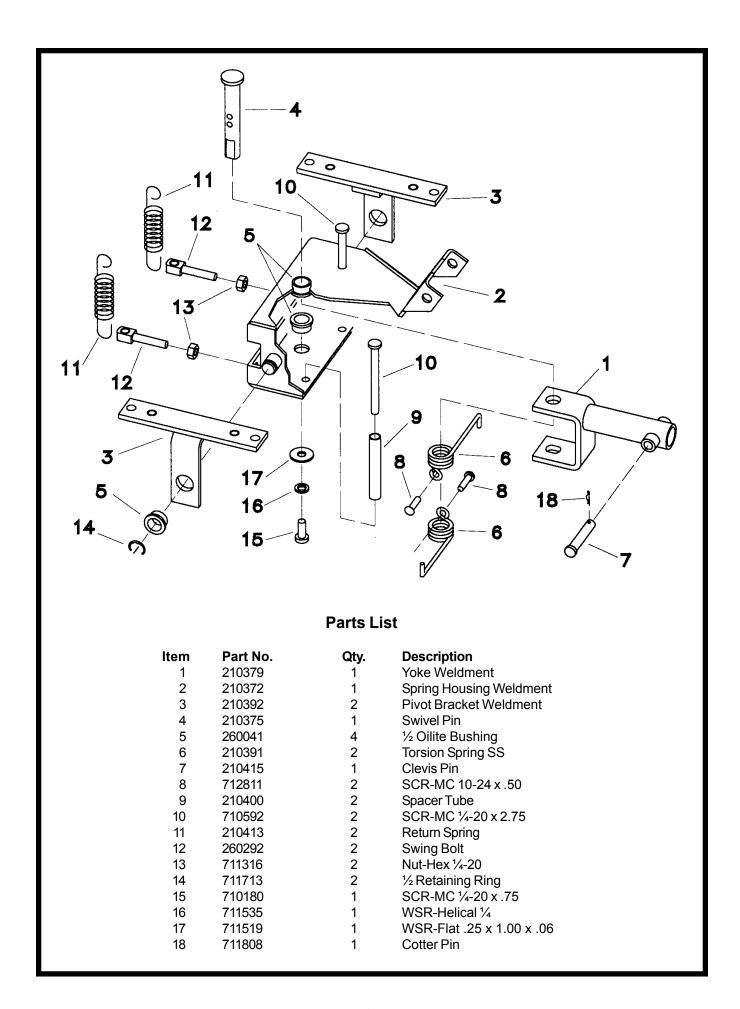


Description	Nut-Flanged Wizz 3/8-16 WSR-Flat 5/16 STPL	WSR-Flat .44 x .87 x .07	Drive Hub Retainer Bolt WSR-Flat 77 x 1 37 x 03	WSR-Wave .37 x .68 x .02	WSR-Helical .26 x .50 x .02	Rollpin .12 x .75		Bolt-WSR HH 5/16-18 x .62	SCR-MC 1/4-20 x 1.25 SS	Nut-Hex Jam 1/4-28 SS	Gearmotor 115V	Gearmotor 230V	Foot Guard	Knob Oval Tapered	Pedal Pad	3/8 Barb x 1/4 MPT	Elbow Pls. 1/4 MPT x 3/8 Barb	Hose Barb 1/4 FPT x 3/8 Barb	Decal Diecut Speed Control	WSR-FIBLI/4	1/4-28 x 2.00 Inreaded Kod	Motor Brkt. Weldment	Ollite-Work	Pivot Weldment	3/8-16 U.N.C. Threaded Rod	Bearing	Tinnerman Clip	Switch	SCR-MC 6-32 x 1.00	WSR-Flat	Spring	Pedal Stop	Nut-Nyloc 1/4-20	Bearing Stud	WSR-Helical 3/8
Qty.	ი თ	<del>-</del>	<del></del>	- 0	9	<del>-</del>	က	က	7	4	<del>-</del>	<b>~</b>	<del>-</del>	7	τ-	← ·	<del>.</del> ,	<b>,</b> - ·	← c	0 4	- ,	<del>- 、</del>	<b>.</b> - ,	<del></del> .	τ- 1	7	<del>-</del>	<del>-</del>	7	7	<del>-</del>	<b>~</b>	4	7	7
Part No.	711439 711506	711515	210066 711517	711523	711535	711615	711803	712042	712576	712666	740428	740432	210076	760592	210142	828952	833325	833473	715136	711505	210028	210108	210033	210031	210029	361254	711443	740129	710307	711551	260211	210387	711373	210124	711546
Item	86 90 90	4	4 24 &	3 4	45	46	47	84	49	20	51	51A	25	23	\$	: 22	1 29	<i>)</i> 5	8 8	77 67	3 2	9	79 8	:3 :	2	92	99	29	89	69	2	71	72	73	47
	isc						¥											plete				on 41"						_					59 SS		0
Description	Mounting Brkt. Quick Disc Motor Mount Weldment	Motor Brkt. Weldment	Lift Lever Weldment	Control Pivot Weldment	Speed Control Rod	Speed Control Weldment	Mounting Plate Weldment	Drive Hub	Spring, Extension	Pivot Cam	Threaded Connecting Rod	Compression Spring	WSR-Flat .56 x 1.00	Nut-Hex Jam 5/16-18 STPL	Wheel Mount Strut Right	Mtg. Plate Wheel Carriage	Nut-Hex 1/4-20 SS	Squeegee Mechanism Complete	Balljoint (SP1002)	Wheel Mount Strut Left	Die Spring	Solution Dump Hose, Nyl	Stabilizer Bar Lower	WSR-Flat 1/2	Nylon Cap 1/4 FPT HC4		Crimp Clamp SS 185R	SCR-SC 3/8-16 x 1.00 STP	BLT-HH 1/4-20 x .50 STPL		BLT-HH 1/4-20 x 1.25	Nut-Nvloc 5/16-18 SS	WSR-Flat .28 x 1.25 x .059	Nut-Hex 3/8-16	Nut-Flanged Wizz 1/4-20
Qty. Description		1 Motor Brkt. Weldment	1 Lift Lever Weldment 2 Speed Control Weldment	Control Pivot Weldment	1 Speed Control Rod	1 Speed Control Weldment	1 Mounting Plate Weldmer	1 Drive Hub					WSR-Flat .	Nut-Hex Jar					2 Balljoint (SP1002)			Solution Dump Hose, Nyl		WSR-Flat 1	1 Nylon Cap 1/4 FPT HC4		Crimp Clam	SCR-SC 3/8	BLT-HH 1/4-	BLT-HH 1/4-2		Nut-Nvloc 5		2 Nut-Hex 3/8-16	Nut-Flanged
		1 Motor Brkt.	210039 1 Lift Lever Weldment	- \	_	430026 1 Speed Control Weldment	1 Mounting PI	430035 1 Drive Hub	_			_	1 WSR-Flat .	1 Nut-Hex Jar	_	_	9	_	7.	<u> </u>	•	<del>-</del> (	7	1 WSR-Flat 1	_	_	2 Crimp Clam	SCR-SC 3/8	BLT-HH 1/4-	BLT-HH 1/4-2	2	2 Nut-Nvloc 5	7	2	Nut-Flanged

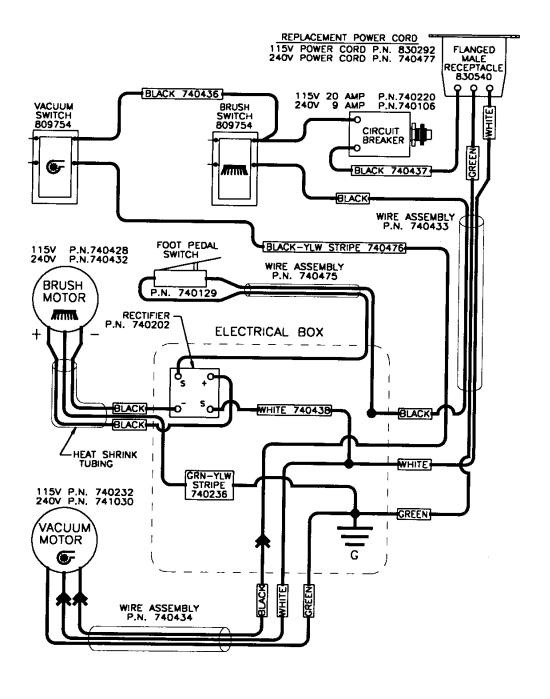


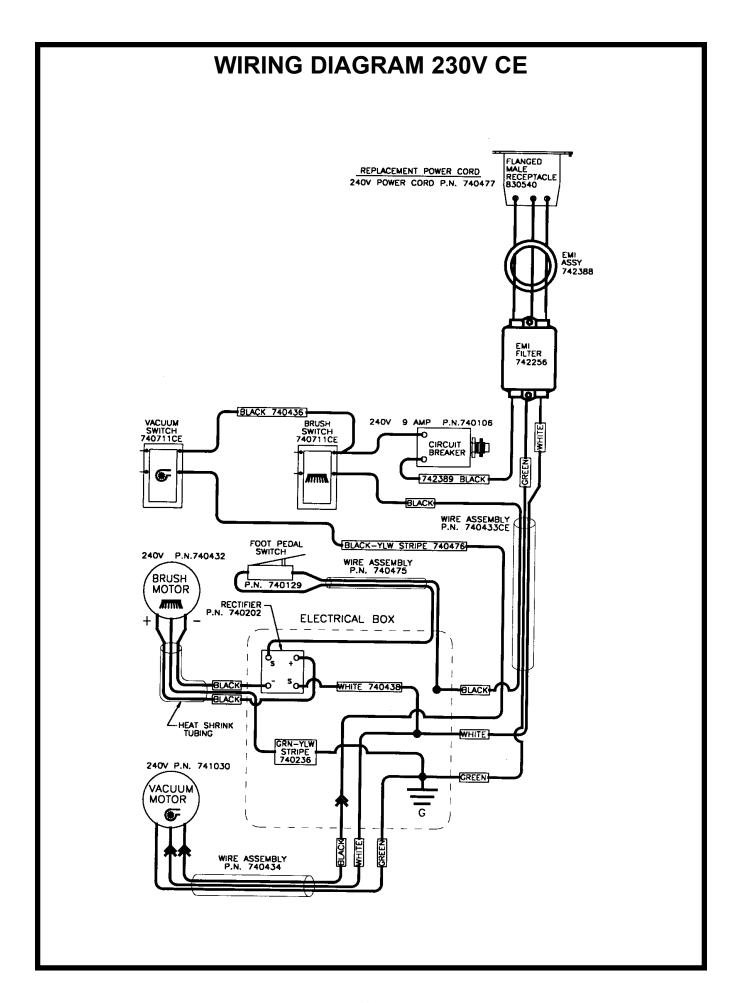
Description	Flanged Bushing	BLT-SDER 1/4-20 x .44 x .37	WSR-Nylon .22 x .45 x .04	Switch Rocker	Switch (CE Version)	SCR-THMS 10-24 x .50 STPL			Cover, Box	CB 20 amp 115V Model	CB 9 amp 230V Model	WSR-Internal Lock #10	Hole Plug	Wire Formed Hook	Knob Oval Tapered	Spacer .319 x .375 x .250	Clamp Ring	Snap Body	Female Connector Nylon	Cord Assembly 115V	Cord Assembly 240V	Wire Support	74-20 Nut	Heyco Bushing Liquid Tight	Nut-Pipe Lock ½	Rect. Bridge 50A 600V IMP	Grommet .50 x .09 x .75	Switch Guard	Grommet	
Q. Y.	_	7	7	7	7	∞			_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	7	7	_	_	_	_	
Part No.	829014	712041	712320	809754	740711CE	712822			805634	740220	740106	711553	833823	760286	760592	762058	760142	430103	828796	830292	740477	210093	711316	450050	711400	740202	762299	210096	250135	
Item	30	34	32	33	33A	8	32	35A	36	37	37A	88	36	40	14	42	43	4	45	46	46A	47	48	64	20	51	25	53	72	
Description	Wheel Mount Frame	Dashboard, Screen Printed	Dashboard, CE Screen Printed	Squeegee Lift Cable	Solution Control Cable	Squeegee Lift Brkt. Assembly	Squeegee Lift Arm Assembly	Squeegee Assembly Complete	Yoke	Nut-Hex Jam 5/16-18	Back Cover Weldment	Cord Strain Relief	SCR-MC 5/16-18 x .75 STPL	SCR-MC 5/16-18 x .50 STPL	U Channel	Twist Loc Receptacle	Clevis Pin .312 x 1.69	SCR-MC 1/4-20 x .50 STPL	SCR-MC 1/4-20 x .75 STPL	Retainer Bag Clip	SCR-ST-B 10 x .37 NI	SCR HI/LO 10 x 3/4 PL	O-Ring 1.25 ID x .187	Nut-Acorn 1/4-20 ST N1	Nut-Flanged Wizz 1/4-20	WSR-Flat #10	WSR-Flat 5/16 STPL	WSR-Wave .37 x .68 x .02	SCR-ST-A 10 x . 75 PL	Cotter Pin-Hair #13
Qty.	<b>~</b>	_	_	_	_	_	_	_	_	_	_	_	_	2	_	_	_	4	7	_	က	2	_	_	4	7	7	_	_	~
Part No.	210095	210026SP	210026CESP	210406	210045	430059	430060	210452	881009	711420	210092	450012	710197	710195	430120	830540	210415	710178	710180	250038	711124	711161	833827	711352	711425	711503	711506	711523	711106	711808
Item	_	7	<b>2</b> A	က	4	2	9	7	∞	ဝ	9	F	12	13	4	15	16	17	8	19	8	73	23	23	24	52	28	27	78	83





# **WIRING DIAGRAM 115V/STANDARD 230V**





#### 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 warranteed 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.



World Headquarters Minuteman International, Inc. 111 South Rohlwing Road Addison, Illinois 60101 Minuteman Canada, Inc. 2210 Drew Road Mississauga, Ontario L5S 1B1

(630) 627-6900 FAX (630) 627-1130 (905) 673-3222 FAX (905) 673-5161 988110 Printed in U.S.A.