

Model: M26036QP M26036CE



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 M26036CE a Lumina Burnisher 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 EN 60335-1.

SOUN	7	VIBRATION		
73 dB Operator	69dB At 3m	At O	.5 m/s ² At Operators Handle	
Tests were conducted on 7/2 conditions noted below:	20/02 with calibra	ted sound and vibra	tion equipment under th	ne
General Condition: Temperature: Barometric Pressure	Indoors 25 ⁰ C	Wind: Humidity:	0 km/hr 70%	

Jeff Pollack, Standards Engineer

Date

Form: EC053

Contents Illustration, Spare Parts, Operation, and Service

Precautions	1
Operating Instructions	2
Inspection	2
Maintenance	2
Pad Installation & Adjustment	3
Circuit Breakers	3
Carbon Brush Replacement	3
Battery Service, Installation, & Charging	4
Machine Overview, Control Panel Diagram	4
Base Assembly	5 - 6
Mainframe Assembly	7 - 8
Cover Assembly	9
Pad Driver Assembly	10
Pressure Adjustment Assembly	11
Electrical Assembly	12
Dashboard Assembly	13
Schematic Diagram	14 - 15
Warranty Policy	Back Cover

IMPORTANT SAFETY INSTRUCTIONS

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

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

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

During operation, loose objects on the floor can become dangerous projectiles if struck by the high speed pad. Special attention should be paid in removing or avoiding loose floor tile, electrical cables, telephone connection boxes.

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 dust, etc.

Keep machine moving to reduce the risk of damaging floor finish and floor.

Make sure the red Emergency Disconnect Button is pressed and the battery connector is unplugged from the machine 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.

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

Maintenance and repairs must be performed by authorized personnel.

SAVE THESE INSTRUCTIONS

OPERATING INSTRUCTIONS

INSPECTION

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

ELECTRICAL

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

BATTERIES

Burnishers are shipped with batteries. (3 required)

Part No. 956701 12V 165AH 20 Hr. Rate (Standard) Part No. 956210 12V 210AH 20 Hr. Rate (Optional) We do not recommend mixing AMP hour capacities. Any alternate battery sets can be used if they equal physical size and capacity. See next page for service and installation.

OPERATION

Before starting, familiarize yourself with the machine and its controls (see "Machine Overview" and "Control Panel" diagrams). To turn the machine ON, do the following:

- 1. Make sure 20" high speed pad is used. Make sure the pad is installed on the machine by following instructions under"Pad Installation."
- 2. Make sure that no battery charger is plugged into the recharge port.
- 3. Lift the red emergency disconnect button so it is in the up position.
- 4. Lower the pad driver assembly by pushing the pedal slightly outward on the machine (unlock it), and then release it slowly.
- 5. Turn the power switch to the ON position. The pad driver will then slowly adjust itself to the floor. Move forward in a straight line, check the reading on the Operating Range Meter and make sure you are in the Green ZOne.
- 6. Adjust the pad pressure as needed by turning the knob accordingly. (See Pad Pressure Adjustments.)

AFTER USE

To raise the pad driver, push down until the pedal arm engages into the pedal catch. Turn machine off by pressing the "O" button of the power switch on the control panel. Machine can be cleaned with a mild detergent and a damp cloth. Batteries should be charged after each use or when the battery condition meter shows a low charge. Once the battery charger reads 0 amps, the batteries are recharged. This should take approximately 6 hours if the batteries are completely discharged.

MAINTENANCE

Periodically remove batteries from machine. Clean the batteries and battery tray with a solution of baking soda and water. Check all battery cables and wiring for signs of damage and wear. Replace as needed. Grease front wheel and rear caster zerks once a month for best operation.

FLOOR SEAL STRIP

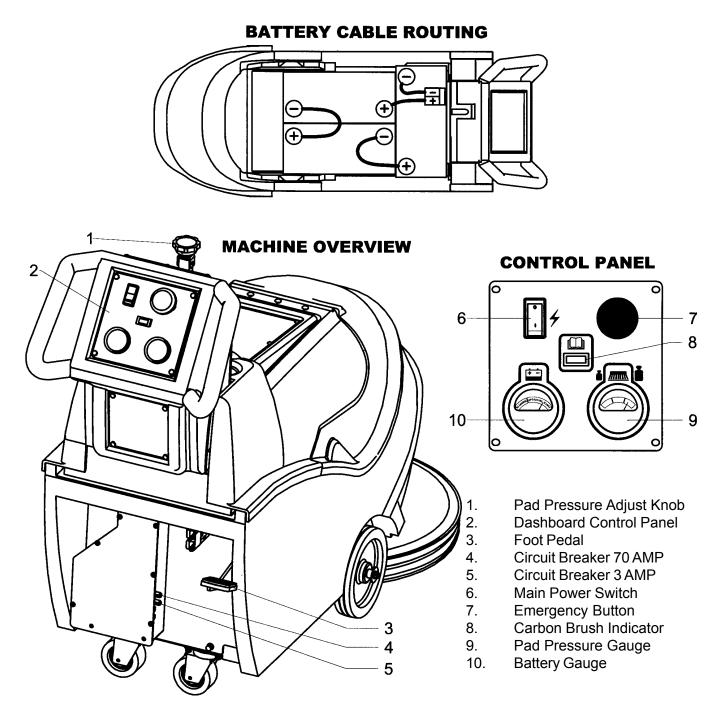
When the floor seal strip show signs of excessive wear, seal should be replaced. The strip can be removes by loosening the screw on the retainer strap until the seal can slide off of the pad shroud housing. To install new seal, slip the retainer strap over the new seal strip and pad shroud. Make sure the seal is seated equally around the perimeter and the holes on the floor seal are oriented towards the back portion of the shroud.

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.

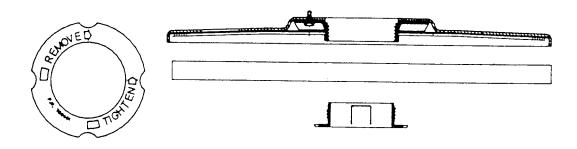
CHARGING OF BATTERIES

Charging batteries generates explosive gasses. DO NOT CHARGE BATTERIES WHEN OPEN FLAMES OR SPARKS ARE PRESENT. DO NOT SMOKE. Make sure the charger is turned off before disconnecting it from the batteries. Charge the batteries in a well-ventilated area with battery cover removed completely. Fluid levels should be checked before and after charging and maintained at the proper levels. If the burnisher is not used for extended periods of time, batteries should be kept fully charged with a boost charge once a week.



Pad Installation

The red emergency disconnect button and power must be in the OFF postion before intallation and the pad driver assembly in the RAISED position. Remove center cup locking device by gripping on outer edges and turning clockwise. **NOTE:** Center cup cannot be pulled out; it must be unscrewed. After removing used pad, place new pad on pad driver assembly using outer flange of pad driver to center the pad. Push centering locking cup through the pad and into the pad driver assembly. The ratchet teeth on the center cup will engage into the pad driver assembly and should be pushed in as far as possible. If further tightening is needed, rotate the center-locking cup counter-clockwise.



PAD PRESSURE ADJUSTMENTS

The pad pressure adjust knob is located on the top of the control console. Counter-clockwise rotation increases pad pressure, the opposite rotation decreases. Different floors, conditions, and pads produce carying pad load conditions. Ideal burnishing conditions are maintained while the operating range meter remains in the Green Zone. If the meter reads in the Red Zone decrease the pad pressure. When the machine is operated in the Red Zone for a long period of time motor overload will occur and the 70-amp circuit breaker for the motor will trip. If the motor circuit trips:

- 1. Check pad condition.
- 2. Decrease pad pressure.
- 3. Reset circuit breaker.

CIRCUIT BREAKER PROTECTION

70 amp circuit breaker protects pad driver motor form excessive overload conditions.

3 amp circuit breaker protects control circuits against possible electrical shorts.

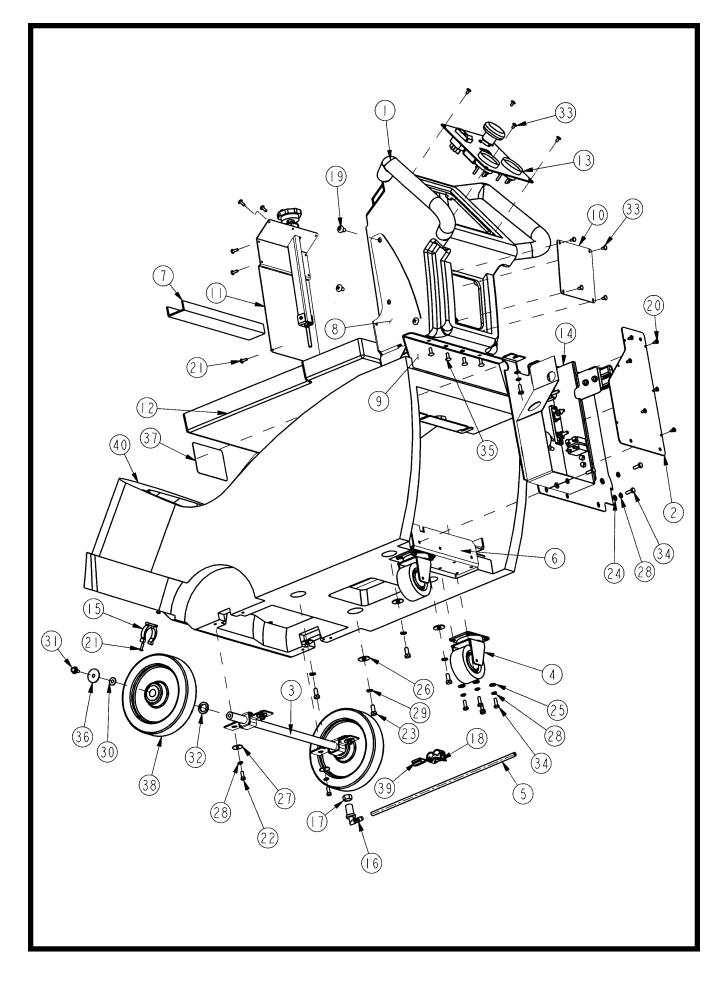
If either circuit breaker trips, first determine the cause and correct the condition before resetting the breakers.

CARBON BRUSH REPLACEMENT

Design life of carbon brushes is between 1800-2000 hours. Replace brushes if worn to 3/8" or less, broken, or chipped. All carbon brushes should be replaced when motor is serviced. Four (4) are required, P/N 572003. Red indicator on control panel will glow when carbon brush service is required.

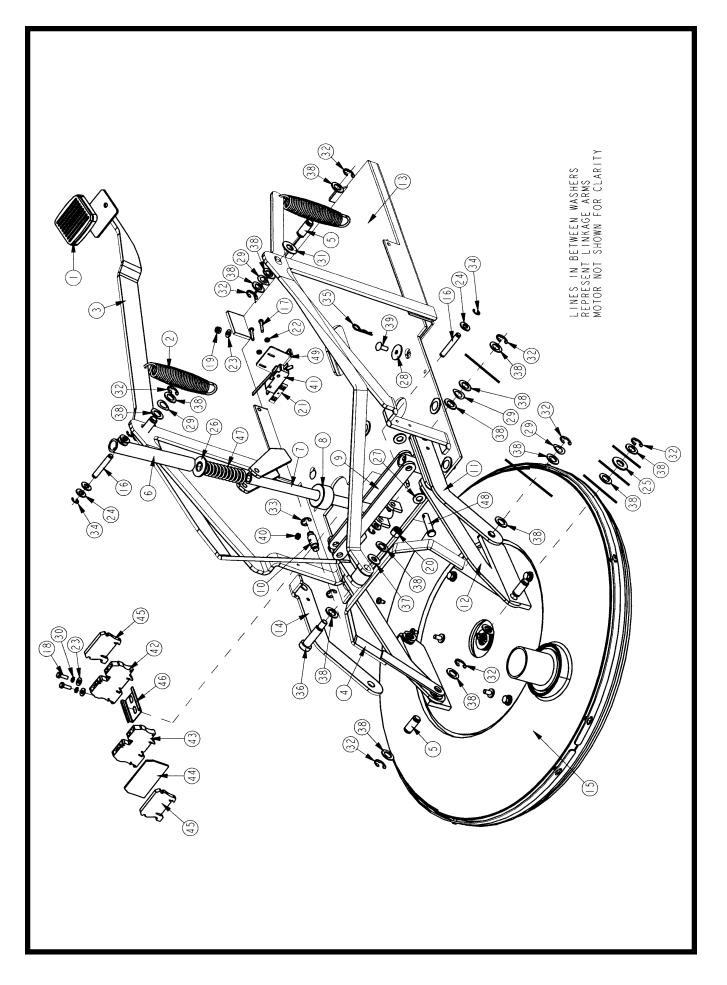
CARBON BRUSH SERVICE

- 1. Disconnect batteries from machine.
- 2. Remove two screws that hold dust control housing and motor cover to motor.
- 3. Blow out top of motor with air line.
- 4. Loosen screw and remove carbon brush lead.
- 5. Slide brush spring off the back of carbon brush and remove brush.
- 6. Reverse order for installation of new carbon brushes.



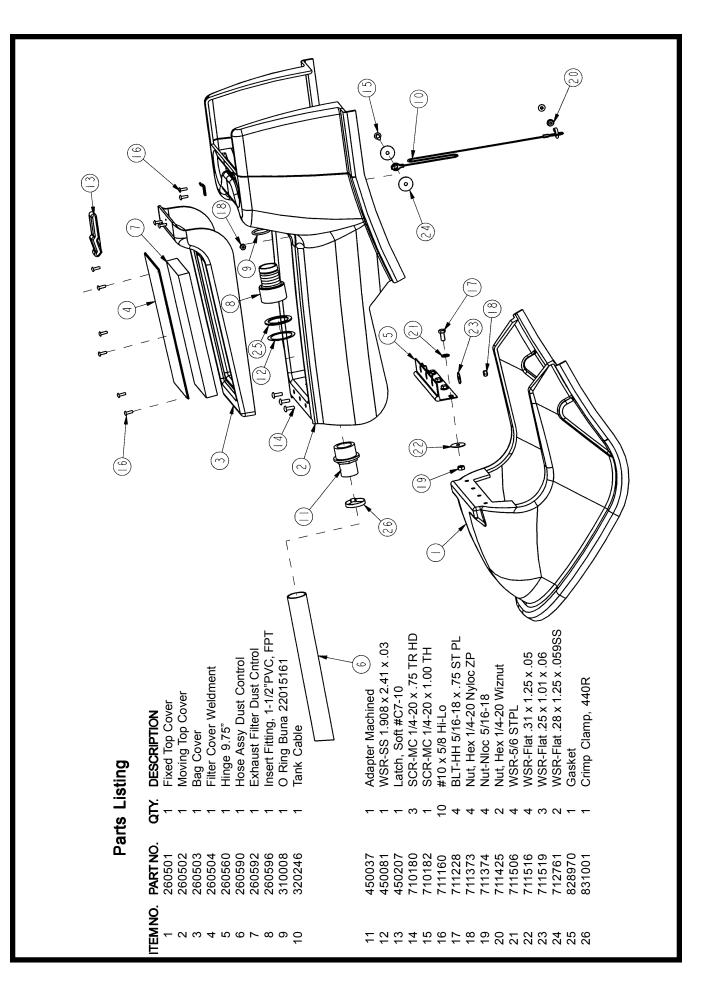
Parts Listing

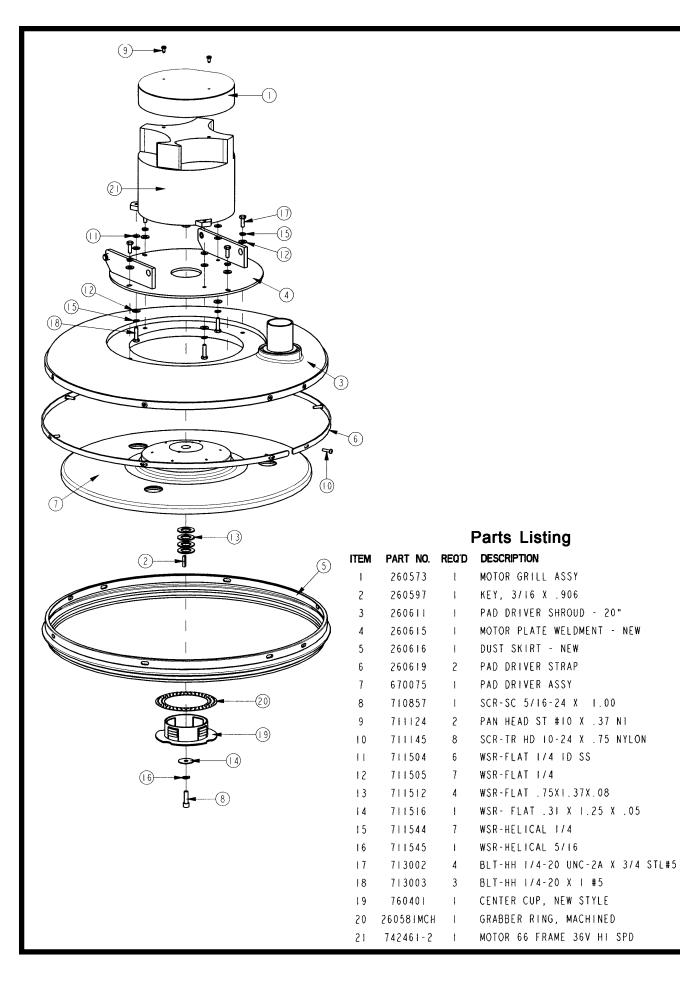
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	200104	1	Handle Console 200
2	200154	1	Panel Cover Weldment
3	200250	1	Axle Weldment
4	200345	2	Caster, 3-1/2 Polyurethane
5	260224	1	Silicone Hose 18 C/L
6	260536	1	Base Plate Weldment
7	260537	1	Lumina Battery Spacer
8	260538	1	Front Handle Bracket Weldment
9	260541	1	Rear Handle Brkt
10	260544	1	Panel Cover
11	260549	1	Pressure Adj Assembly
12	260558	1	Battery Box
13	260569	1	Dash Brd Assy, Burnisher
14	260570	1	Electrical Panel Assembly
15	260579	1	Tool Clip, 1.5" Hose
16	320271	1	Fitting Nylon 90 1/4mpt x 3/8hb
17	320272	2	Nozzle Body Locknut
18	320273	1	Hose Shut-Off Clamp
19	710195	6	SCR-MC 5/16-18 x .50
20	711124	6	Pan Head ST #10 x .37
21	711160	11	#10 x 5/8 Hi-Lo
22	711203	4	BLT-HH 1/4-20 x .62 STPL
23	711228	4	BLT-HH 5/16-18 x .75 ST PL
24	711504	6	WSR-Flat 1/4 ID SS
25	711505	8	1/4 WSR
26	711507	4	WSR-Flat 3/8 (.38x1.12x.06)
27	711519	4	WSR-Flat .25 x 1.01 x .06
28	711544	18	WSR-Helical 1/4
29	711545	4	WSR-Helical 5/16
30	711575	2	WSR-Flt .31 x .75 x .06 ST
31	712042	2	BLT-WSR HH 5/16-18 x .62
32	712318	2	WSR-Flat .75 x 1.12 x .12 PL
33	712540	8	10-24 x .37 SS Truss HD SCR
34	712562	14	Bolt-HH 1/4-20 x 3/4 SS
35	712565	9	SCR-MC 1/4-20 x .63 SS TR HD
36	712759	2	WSR-Flt .31 x 1.37 x .06 SS
37	715430	1	Decal, Battery Routing
38	762332	2	Wheel 8 x 2 x .75 w/Bearing
39	809444	1	Clip Cord
40	200102MCH	1	Base Machined

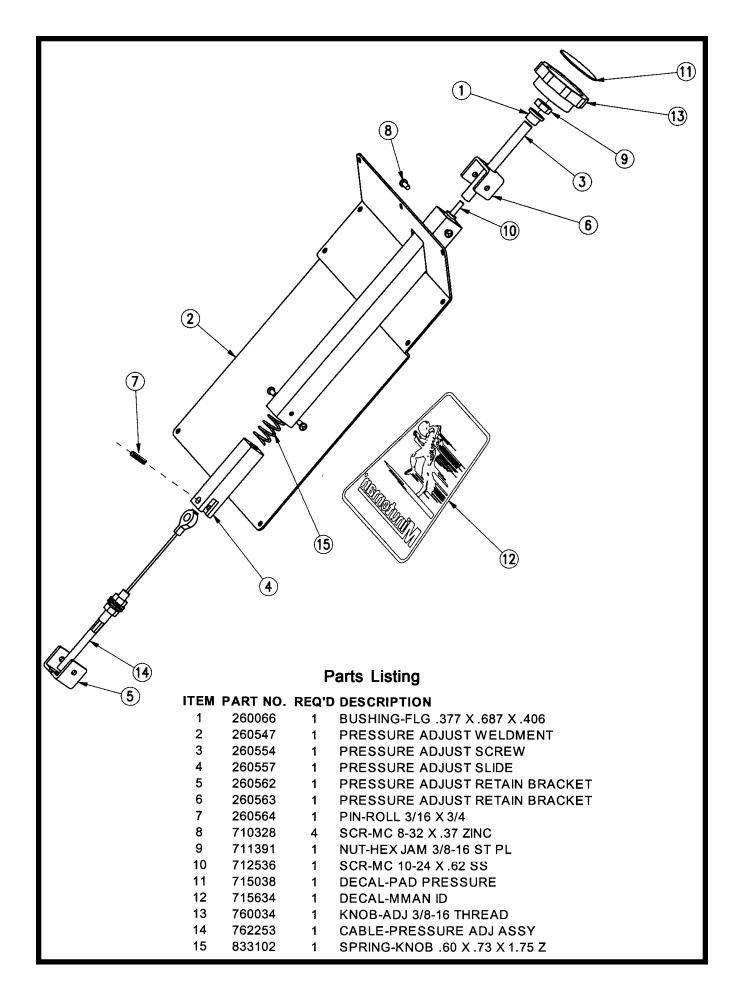


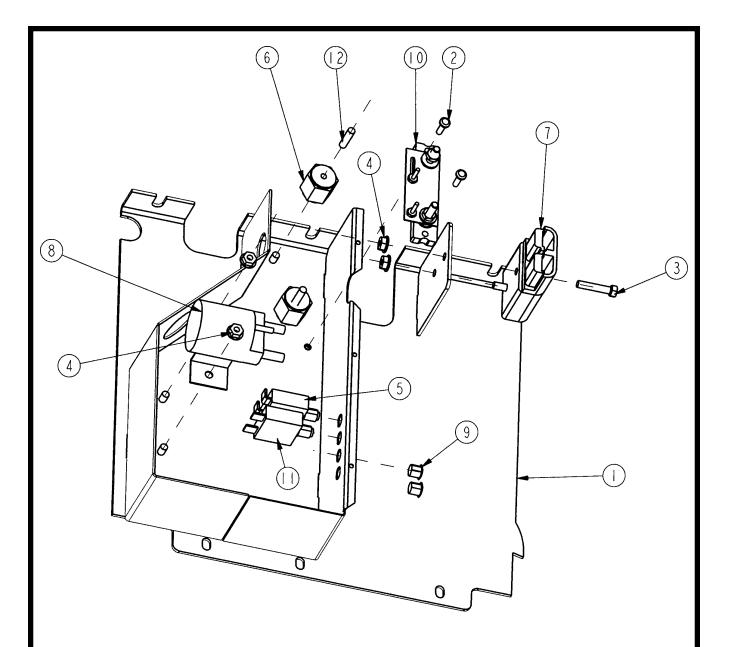
M	PARI NU.	אבע ט			L'AKI NU.	אבת ח	טבאראור ווטע
_	210142	-	PEDAL PAD	26	711511	_	WSR-FLAT .62 X I.31 X .09
5	260211	2	HOBBY SPRING	27	711515	2	WSR-FLAT .406 X .812 X .0625
ŝ	260511	_	UPPER WMT	28	711519	9	WSR-FLAT .25 X 1.01 X .06
4	260513	_	MOTOR LIFT WELDMENT	29	711524	9	WSR-WAVE .52 X .87 X .01
5	260519	4	PIVOT PIN	30	711543	5	WSR - HELICAL #10
Ģ	260521	_	GUIDE TUBE	31	711592	2	WSR NYLON .5 X 1.06 X .06
٢	260522		SPRING GUIDE	32	711713	14	RETAINING RING - "E" TYPE EXT .500
80	260523		SPRING SPACER 1.50 X .632 X .84	33	71717	2	RETAINING RING- E TYPE .37
6	260524	2	ADJUSTMENT LINK	34	711721	4	RET RING-E TYPE .312
01	260525	-	ADJUSTMENT NUT	35	711808	_	COTTER PIN-HAIR #13
Ξ	260528		LINK	36	712102	_	BLT- SHLDR 1/2 X 1-1/2
12	260529	2	TRAILING LINK	37	712301		WSR-FLAT .87 X .38 X .06
13	260536		BASE PLATE WELDMENT	38	712310	28	WSR-FLAT .52 X .87 X .06 PL
14	260576	_	L INK	39	712565	ę	SCR-MC 1/4-20X.63 SS TR HD
15	260610	-	SHROUD ASS'Y, NEW - LUMINA 20	40	712905	_	NUT-HEX 10-24 NIPL
16	670605	5	ROLLER PIN	4	740830		SWITCH SPST NC CONTACT
17	710307	2	SCR-MC 6-32 X I.O ST PL PAN HD	42	743640	_	TERMINAL BLOCK, RED (SPRING TYPE)
8	710356	2	SCR-MC 10-32X.62 STPL	43	743641	_	TERMINAL BLOCK, BLACK (SPRING TYPE)
61	711350	2	NUT NYLOC 10-32	44	743642	_	TERM BLOCK, END PLATE
20	711380		NUT-NYLOC 3/8-16 NUT	45	743643	2	TERM BLOCK, ANCHOR
21	711430	—	NUT-TINNERMAN TWIN 6-32	46	743644	_	DIN RAIL, CUT - 2.00"
22	711501	2	WSR-FLAT # 6	47	762339	-	SPRING COMPRESSION
23	711503	4	WSR, FLAT#10	48	831965		3/8 x 1.63" CLEVIS PIN
24	711506	8	WSR-FLT .344 X .690 X .062 STL ZINC	49	260577-1	_	SWITCH INTERLOCK BRACKET
3 E	711500	ç	ודמח עכמה ואגז ז כוי דווס-בטעט				

Parts Listing



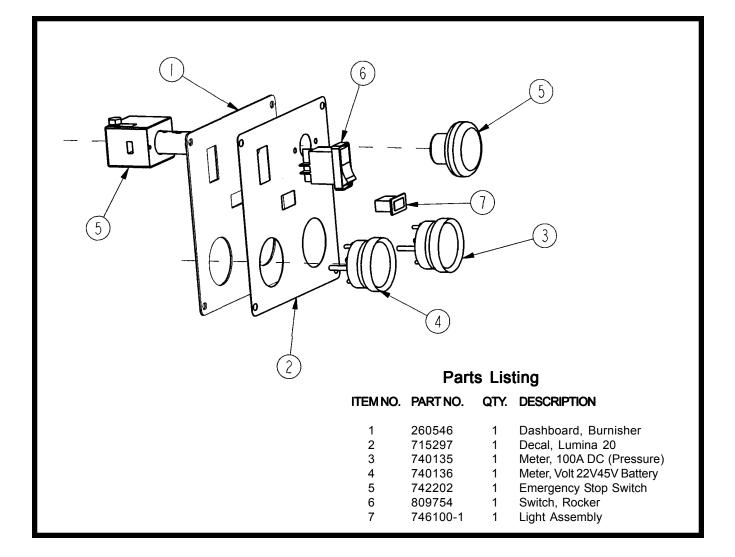






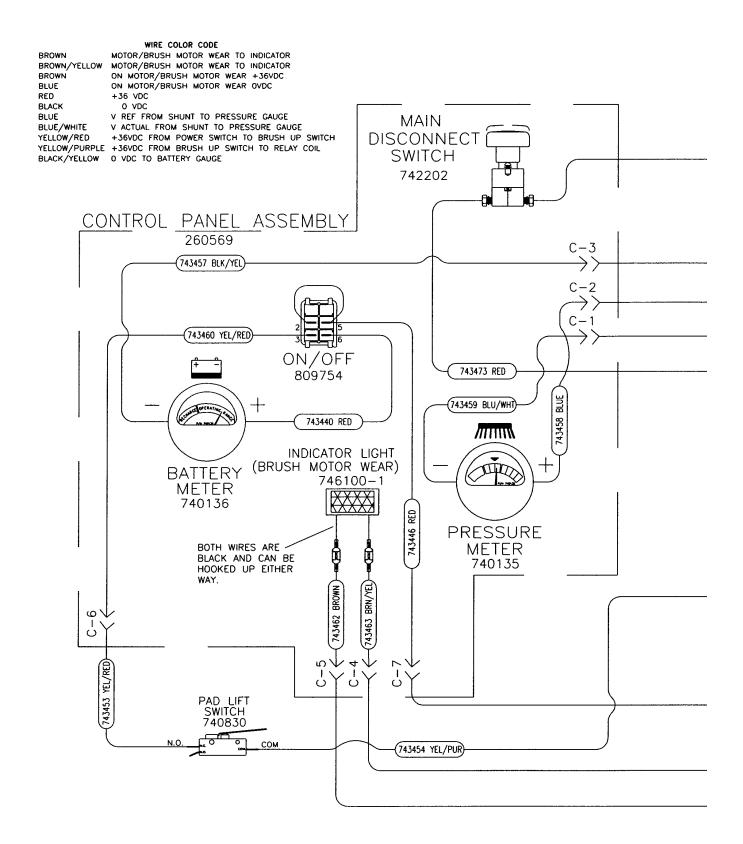
Parts Listing

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	260542	1	Back Panel Weldment
2	710356	2	SCR-MC 1032X.62 Pan HD
3	711210	2	BLT-H 1/4-20 x 1.25 STPL
4	711425	4	Nut, Hex 1/4-20 Wiznut
5	740131	1	Circuit Breaker - 70 amp
6	740132	2	Insulator, Glastic
7	740147	1	CB 175 Gray Housing
8	740243	1	Contactor 36V 124-117111
9	742749	2	Heyco, Hole Plug
10	743464	1	Shunt Calibrated Assy
11	746006	1	Circuit Breaker - 3A
12	833638	2	Brass Stud

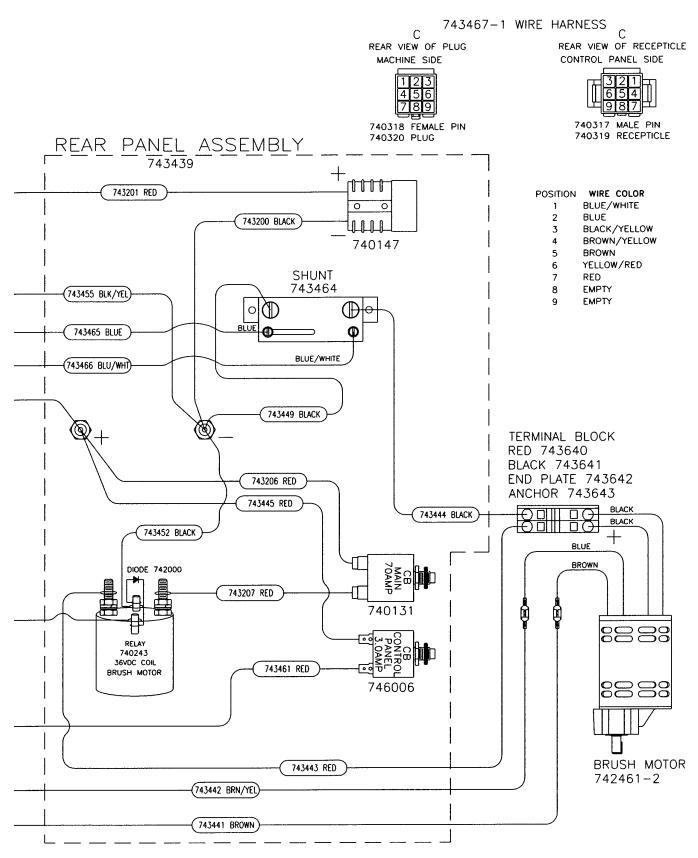


	Dust Skirt P/N 260616
	Carbon Brush Replacements P/N 572003 (Qty 4)
00	210 amp Hour Battery (Optional) P/N 956210
	Paper Bag Replacements P/N 370202PKG

SCHEMATIC DIAGRAM M26036QP



SCHEMATIC DIAGRAM M26036QP, con't.



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.



A Member of the Hako Group of Companies World Headquarters Minuteman International, Inc. 111 South Rohlwing Road Addison, Illinois 60101

PHONE: (630) 627-6900 FAX (630) 627-1130 www.minutemanintl.com Minuteman Canada, Inc. 2210 Drew Road Mississauga, Ontario L5S 1B1

PHONE: (905) 673-3222 FAX (905) 673-5161 988170 Rev. A 9/05 Printed in U.S.A.