



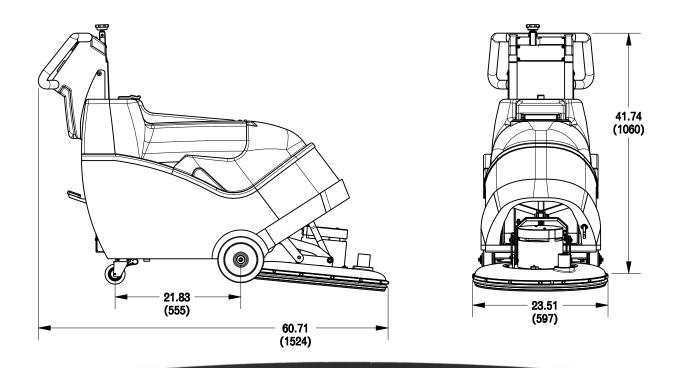
Parts and Instruction Manual Lumina 20 Battery Burnisher This manual is furnished with each new *MINUTEMAN Lumina 20*. This provides the necessary operating and preventive maintenance instructions. Operators must read and understand this manual before operating or servicing this machine.

This machine was designed to give you excellent performance and efficiency. For best results and minimal cost, please follow the general guidelines below:

- Operate the machine with reasonable care.
- Follow the manufacturers suggested maintenance instructions as provided in this booklet.
- Use original Minuteman supplied parts.

TECHNICAL SPECIFICATIONS

Model Model No. Brush Speed Motor Voltage, Batteries Battery Capacity Gross Weight Lumina 20 Brush Drive M26036QP / M26036CE 2600 RPM 2.5HP 36 volts, 3-12volt 165 AH 916 lbs (415 kg) with batteries 638 lbs (290 kg) without batteries



14N845 U. S. Route 20 · Pingree Crove, Illinois 60140 USA Phone: (847) 683-5210 · Fax (847) 683-5207 A Member of the Hako Croup



- D EG-Konformitätserklärung (entsprechend der EG-Richtlinie 2006/42/EG)
- GB EC Declaration of Conformity (according to Directive 2006/42/EC)
- F Déclaration de conformité pour la CEE (conforme à la directive de la CEE 2006/42/CEE)
- Dichiarazione CE di Conformità (ai sensi della direttiva CEE 2006/42)
- E CEE Declaración de Conformidad (según la normativa de la CEE 2006/42/CE)

Minuteman International

erklären in alleiniger Verantwortung, daß das Produkt, declare under our sole responsibility, that the product, déclarons sous notre seule responsabilité que le produit, Dichiara sotto la propria responsabilità che il prodotto, declaramos bajo responsibilidad propia que el producto,

Machine

M26036CE,M26036TDCE, M26036TDQP, M26036TDQPIW

D auf das sich diese Erklärung bezieht, den einschlägigen grundlegenden Sicherheits- und Gesundheitsanforderungen der EG-Richtlinie 2006/42/EG, sowie den Anforderungen gemäß 2004/108/EG entspricht. Zur sachgerechten Umsetzung der in den EG-Richtlinien genannten Sicherheits- und Gesundheitsanforderungen wurde(n) folgende Norm(en) und /oder technische Spezifikation(en) herangezogen:

GB to which this declaration relates corresponds to the relevant basic safety and health requirements of the Directive 2006/42/EC, and to the requirements of the other relevant Directives 2004/108/EC. For the relevant implementation of the safety and health requirements mentioned in the Directives, the following standard(s) and/or technical specification(s) has (have) been respected:

F faisant l'objet de la déclaration est conforme aux prescriptions fondamentales en matière de sécurité et de santé stipulées dans la Directive de la CEE 2006/42/CEE, ainsi qu'aux prescriptions des autres Directives de la CEE établies dans ce domaine 2004/108/CEE. Pour mettre en pratique dans les règles de l'art les prescriptions en matière de sécurité et de santé stipulées dans les Directives de la CEE, il a été tenu compte de la/des norme(s) et/ou de la/des spécification(s) technique(s) suivante(s):

I é conforme ai requisiti essenziali di sicurezza e di tutela della salute di cui alla Direttiva CEE 2006/42 e sue successive modifiche, nonché ai requisiti di cui alle seguenti Direttive CEE 2004/108. Per la verifica della Conformità di cui alle Direttive sopra menzionate, sono state consultate le seguenti, Norme Armonizzate EN:

E al cual se refiere la presente declaración corresponde a las exigencias básicas de la normativa de la CEE 2006/42/CE y referentes a la seguridad y a la sanidad, asi como a las exigencias de la demás normativas de la CEE 2004/108/CE. Con el fin de realizar de forma adecuada las exigencias referentes a la seguridad y a la sanidad mencionadas en las normativas de la CEE fué(ron) consultada(s) la(s) siguiente(s) normativa(s) y especificación(es) técnicas(s):

EN60335-2-67, EN55014-1, EN55014-2, EN610000-3-2, EN610000-3 Date 5/31/2012 rĕsidĕnt Viće Ŕ of Sales

Name der autorisierten Person, die für Minuteman die technischen Unterlagen zusammenstellt: Name of the person authorized for Minuteman to compile the technical file: Personne chargée du suivi du dossier technique: Nome della persona autorizzata da Minuteman a compilare il file tecnico:

Nombre de la persona autorizada por Minuteman para la creación del fichero técnico:

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Parts and Instruction Manual

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 and 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

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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 "Dashboard 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 turning the key 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 8 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 removed 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.

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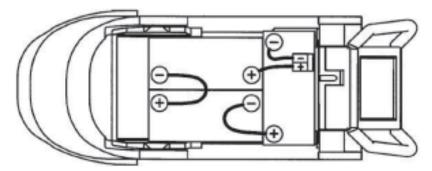
Battery Service and Installation

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.

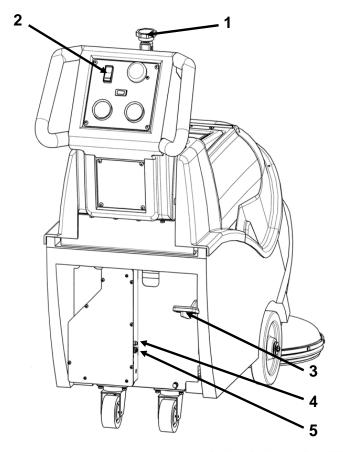
Charging of Batteries

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.

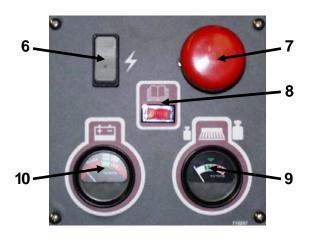
Battery Cable Routing



Machine Overview



Control Panel

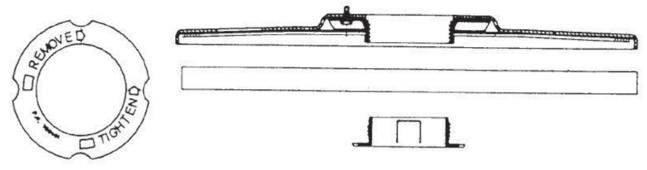


- 1. Pad Pressure Adjust knob
- 2. Dashboard Control Panel
- 3. Foot Pedal
- 4. Circuit Breaker 70 AMP
- 5. Circuit Breaker 3 AMP
- 6. Main Power Switch
- 7. Emergency Button
- 8. Carbon Brush Indicator
- 9. Pad Pressure Gauge
- **10. Battery Gauge**

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Pad Installation

The red emergency disconnect button and the key switch must be in the OFF position before installation 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 carrying 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 from excessive overload conditions. 3.0 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

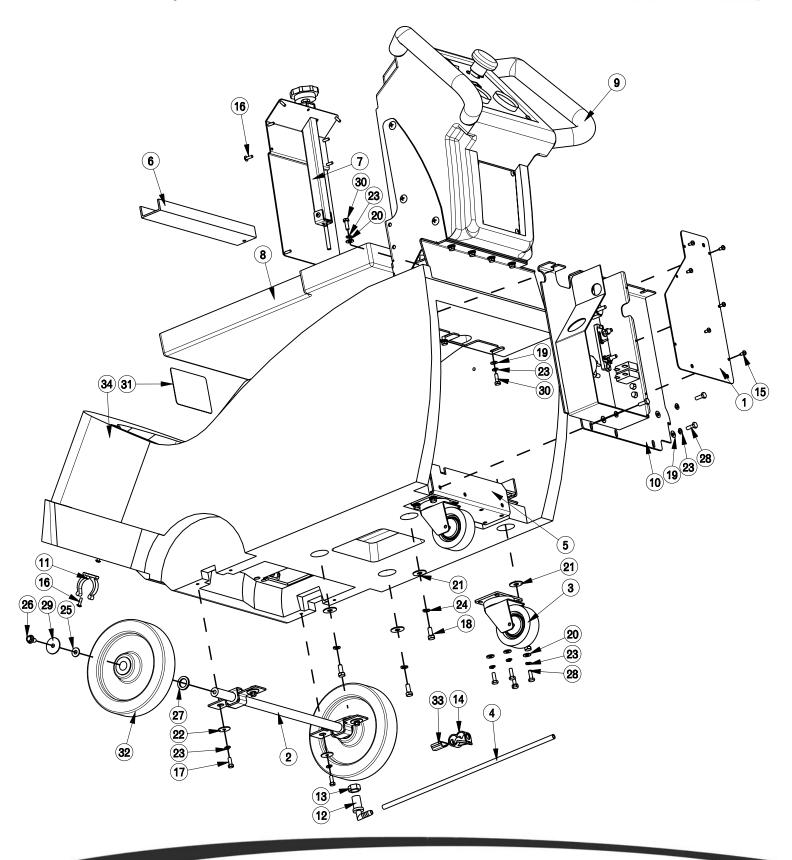
Design life of carbon brushes is between 1800-2000 hours. Replace brushes if worn to 3/8" or less, broken, or chipped. All carbon brushes should be replaced when motor is serviced. Four (4) are required, P/N 572003. Red indicator on control panel (above Emergency Disconnect Button, below the Dashboard)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

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Base Assembly

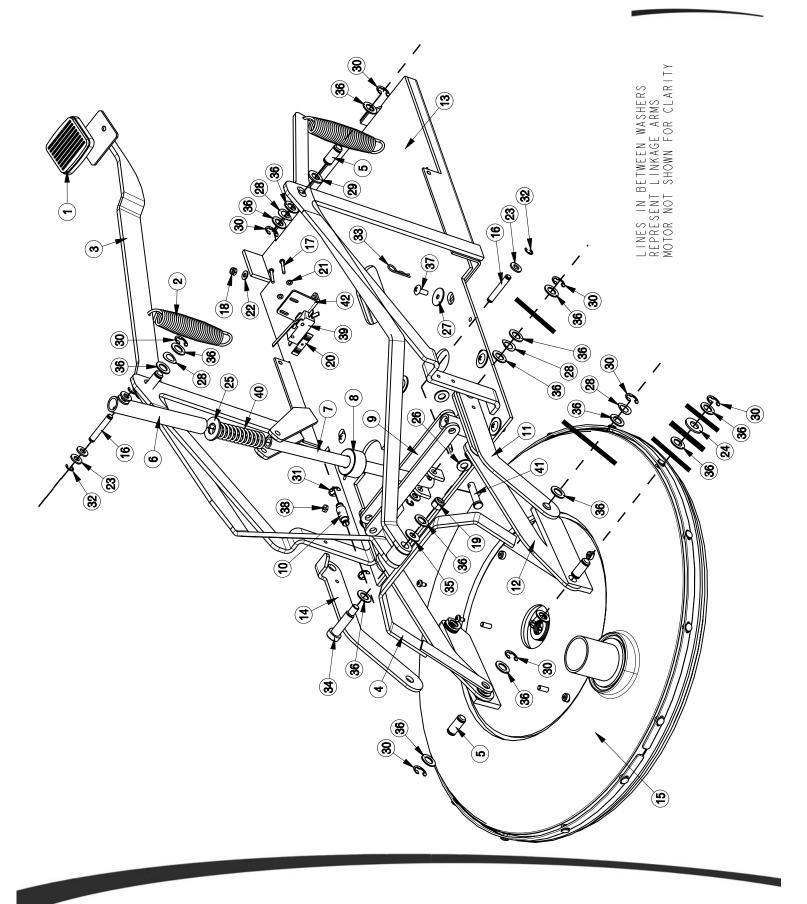


Base Assembly BOM

BILL OF MATERIAL						
ITEM	PART NO.	REQ'D	DESCRIPTION			
1	200154	1	PANEL COVER WELDMENT			
2	200250	1	AXLE WELDMENT			
3	200345	2	CASTER, 3-1/2 POLYURETHANE			
4	260224	1	18" HOSE			
5	260536	1	BASE PLATE WELDMENT			
6	260537	1	LUMINA BATTERY SPACER			
7	260549	1	PRESSURE ADJ ASSEMBLY			
8	260558	1	BATTERY BOX			
9	260568	1	CONSOLE ASSEMBLY			
10	260570	1	ELECTRICAL PANEL ASSEMBLY			
11	260579	1	TOOL CLIP, 1.5" HOSE			
12	320271	1	NOZZLE BODY-ELBOW			
13	320272	2	NOZZLE BODY LOCKNUT			
14	320273	1	HOSE SHUT-OFF CLAMP			
15	711124	6	PAN HEAD ST #10 X .37 NI			
16	711160	10	#10 X 5/8 HI-LO			
17	711203	4	BLT-HH 1/4-20 X 0.62 STPL			
18	711228	4	BLT-HH 5/16-18 X .75 ST PL			
19	711504	6	WSR-FLAT 1/4 ID SS			
20	711505	13	WSR-FLAT 1/4			
21	711507	4	WSR-FLAT .37 X 1.12 X .06			
22	711519	4	WSR- FLAT .25 X 1.01 X .06			
23	711544	23	WSR-HELICAL 1/4			
24	711545	4	WSR-HELICAL 5/16			
25	711575	2	WSR-FLT .31x.75x06ST			
26	712042	2	BLT-WSR HH 5/16-18 X .62			
27	712318	2	WSR- FLAT.75 X 1.12 X .12 PL			
28	712562	11	BOLT-HH 1/4-20X3/4 SS			
29	712759	2	WSR- FLT .31 X 1.37 X .06 SS			
30	713002	8	BLT-HH 1/4-20 UNC-2A X 3/4 STL#5			
31	715430	1	DECAL, BATTERY ROUTING			
32	762332	2	WHEEL 8 X 2 X .75 W/BEARING			
33	809444	1	CLIP-CORD			
34	200102MCH	1	BASE MACHINED			

Mainframe Assembly

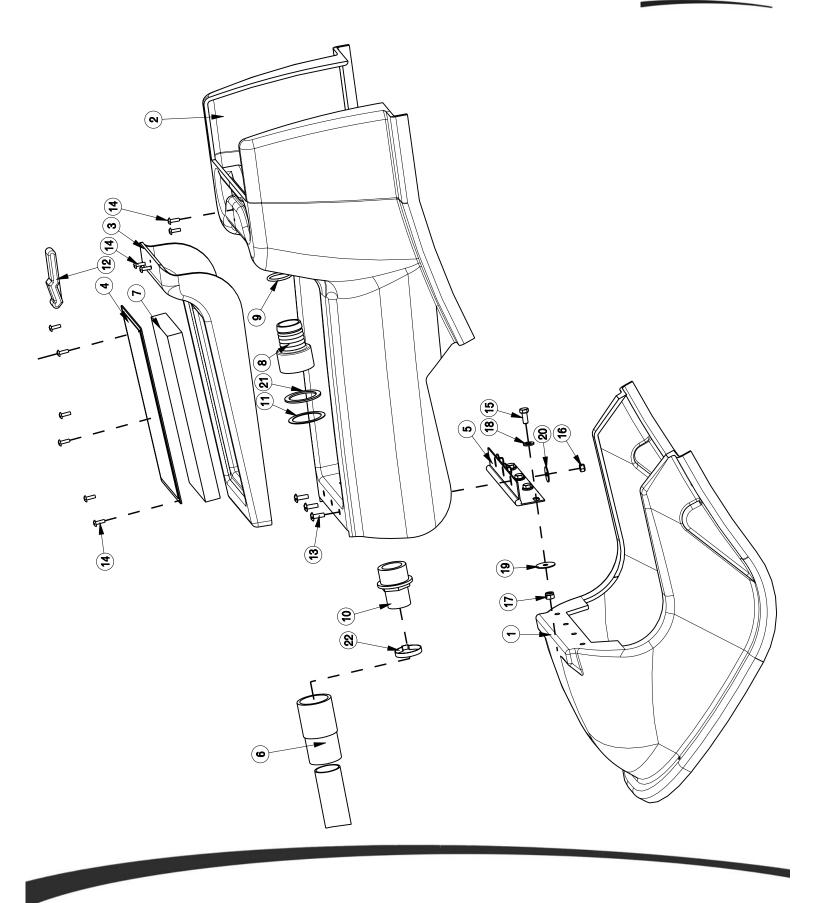
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Mainframe Assembly BOM

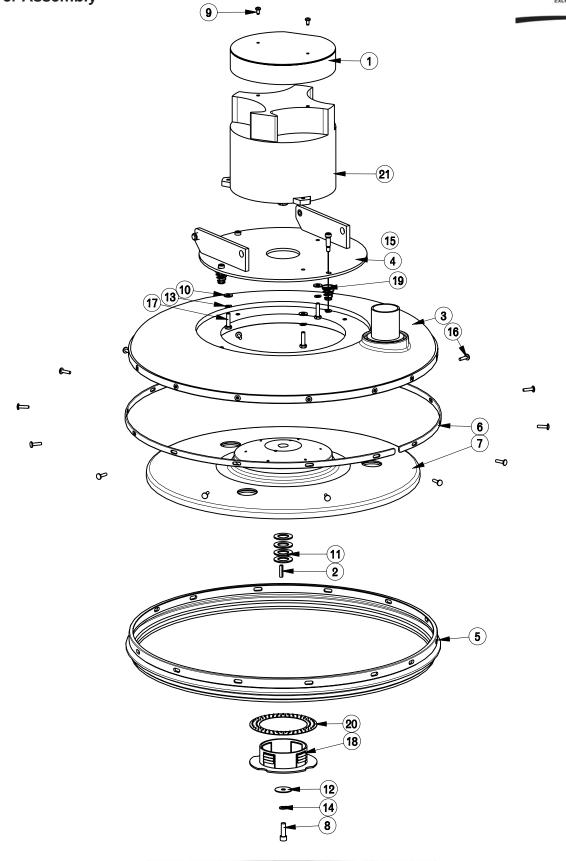


BILL OF MATERIAL						
ITEM	PART NO.	REQ'D	DESCRIPTION			
1	210142	1	PEDAL PAD			
2	260211	2	HOBBY SPRING			
3	260511	1	UPPER WMT			
4	260513	1	MOTOR LIFT WELDMENT			
5	260519	4	PIVOT PIN			
6	260521	1	GUIDE TUBE			
7	260522	1	SPRING GUIDE			
8	260523	1	SPRING SPACER 1.50 X .632 X .84			
9	260524	2	ADJUSTMENT LINK			
10	260525	1	ADJUSTMENT NUT			
11	260528	1	LINK			
12	260529	2	TRAILING LINK			
13	260536	1	BASE PLATE WELDMENT			
14	260576	1	LINK			
15	260610	1	SHROUD ASS'Y, NEW - LUMINA 20			
16	670605	2	ROLLER PIN			
17	710307	2	SCR-MC 6-32 X 1.0 ST PL PAN HD			
18	711350	2	NUT NYLOC 10-32			
19	711380	1	NUT-NYLOC 3/8-16 NUT			
20	711430	1	NUT-TINNERMAN TWIN 6-32			
21	711501	2	WSR-FLAT # 6			
22	711503	2	WSR, FLAT#10			
23	711506	8	WSR-FLT .344 X .690 X .062 STL ZINC			
24	711509	2	WSR-FLAT 1/2 (.54X1.082X.087)			
25	711511	1	WSR-FLAT .62 X 1.31 X .09			
26	711515	2	WSR-FLAT .406 X .812 X .0625			
27	711519	6	WSR- FLAT .25 X 1.01 X .06			
28	711524	6	WSR-WAVE .52 X .87 X .01			
29	711592	2	WSR-FLAT .50 X .9 X .075 NYL			
30	711713	14	RETAINING RING - "E" TYPE EXT .500			
31	711717	2	RETAINING RING- E TYPE .37			
32	711721	4	RET RING-E TYPE .312			
33	711808	1	COTTER PIN-HAIR #13			
34	712102	1	BLT- SHLDR 1/2 X 1-1/2			
35	712301	1	WSR-FLAT .87 X .38 X .06			
36	712310	28	WSR- FLAT .52 X .87 X .06 PL			
37	712565	6	SCR-MC 1/4-20X.63 SS TR HD			
38	712905	1	NUT-HEX 10-24 NIPL			
39	740830	1	SWITCH SPST NC CONTACT			
40	762339	1	SPRING COMPRESSION			
41	831965	1	3/8 x 1.63" CLEVIS PIN			
41	260577-1	1	SWITCH INTERLOCK BRACKET			
42	2003/7-1		SWITCH INTERLOCK DRACKET			



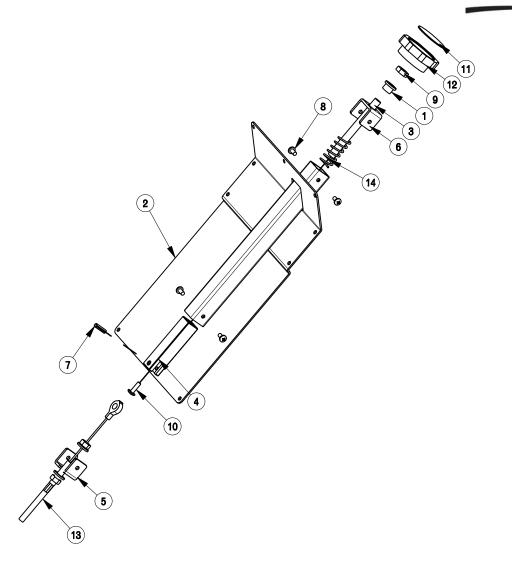
	BILL OF MATERIAL					
ITEM	PART NO.	REQ'D	DESCRIPTION			
1	260501	1	FIXED TOP COVER			
2	260502	1	MOVING TOP COVER			
3	260503	1	BAG COVER			
4	260504	1	FILTER COVER WELDMENT			
5	260560	1	HINGE 9.75"			
6	260590	1	HOSE ASSY DUST CONTROL			
7	260592	1	EXHAUST FILTER DUST CONTROL			
8	260596	1	INSERT FITTING, 1-1/2"PVC, FPT			
9	310008	1	O RING BUNA 2201510561			
10	450037	1	ADAPTER MACHINED			
11	450081	1	WSR-SS 1.908 x 2.41 x .03			
12	450207	1	LATCH, SOFT #C7-10			
13	710180	3	SCR-MC TR HD 1/4-20x.75 STL ZINC			
14	711160	10	#10 X 5/8 HI-LO			
15	711228	4	BLT-HH 5/16-18 X .75 ST PL			
16	711373	3	NUT-NYLOC 1/4-20			
17	711374	4	NUT-NYLOC 5/16-18			
18	711506	4	WSR-FLT .344 X .690 X .062 STL ZINC			
19	711516	4	WSR- FLAT .31 X 1.25 X .05			
20	711519	3	WSR- FLAT .25 X 1.01 X .06			
21	828970	1	WSR-NEOP 1.87 X 2.4 X .125			
22	831001	1	CRIMP CLAMP, 440R			

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	BILL OF MATERIAL - 260610						
ITEM	PART NO.	REQ'D	DESCRIPTION				
1	260573	1	MOTOR GRILL ASSY				
2	260597	1	KEY, 3/16 X.906				
3	260611	1	PAD DRIVER SHROUD - 20"				
4	260615	1	MOTOR PLATE WELDMENT - NEW				
5	260616	1	DUST SKIRT - NEW				
6	260619	2	PAD DRIVER STRAP				
7	670075	1	PAD DRIVER ASSY				
8	710857	1	SCR-SC 5/16-24 X 1.00				
9	711124	2	PAN HEAD ST #10 X .37 NI				
10	711505	3	WSR-FLAT 1/4				
11	711512	4	WSR-FLAT .75X1.37X.08				
12	711516	1	WSR- FLAT .31 X 1.25 X .05				
13	711544	7	WSR-HELICAL 1/4				
14	711545	1	WSR-HELICAL 5/16				
15	712070	4	BLT, SHLDR 5/16 X .75				
16	712537	14	10-24 X.75 SS TRUSS HD SCR				
17	713003	3	BLT-HH 1/4-20 X 1 #5				
18	760401	1	CENTER CUP, NEW STYLE				
19	809857	4	TRIGGER SPRING				
20	260581MC	H 1	GRABBER RING, MACHINED				
21	742461-2	1	MOTOR 66 FRAME 36V HI SPD				



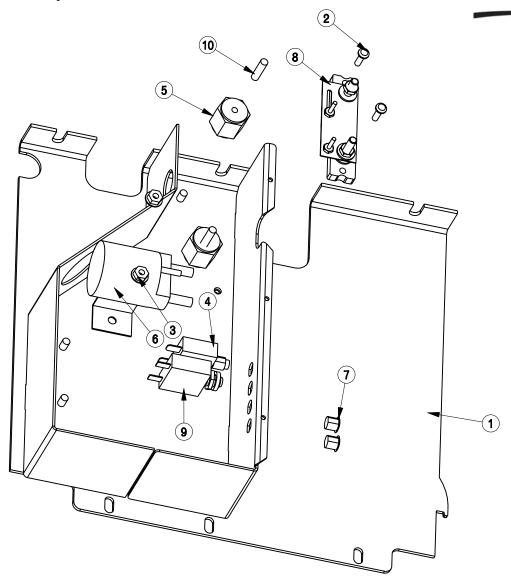


BILL OF MATERIAL - 260549						
ITEM	PART NO.	REQ'D	DESCRIPTION			
1	260066	1	OILITE BUSHING			
2	260547	1	PRESS ADJ MOUNT WELD			
3	260554	1	PRESS ADJ SCREW			
4	260557	1	PRESS ADJ SLIDE			
5	260562	1	PRESS ADJ RET BRKT			
6	260563	1	PRESS ADJ RET BRKT			
7	260564	1	ROLL PIN 3/16"X3/4"			
8	710353	4	SCR-MC 10-32 X.37 ST PL			
9	711391	1	NUT-HEX JAM 3/8-16 ST PL			
10	712536	1	SCR-MC 10-24 X .62 TH SS			
11	715038	1	DECAL, PAD PRESSURE			
12	760034	1	KNOB, ADJ (SET SCREW)			
13	762253	1	CABLE, ASSY PRESSURE			
14	833102	1	SPRING, .62 X .75 X 1.75			



Electrical Assembly

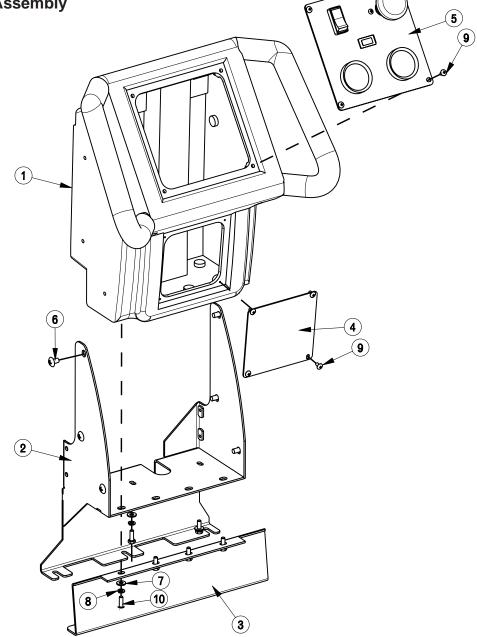
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	BILL OF MATERIAL - 260570						
ITEM	PART NO.	REQ'D	DESCRIPTION				
1	260542	1	BACK PANEL WELDMENT				
2	710356	2	SCR-MC 10-32X.62 STPL				
3	711425	2	NUT, HEX 1/4-20 WIZNUT				
4	740131	1	CIRCUIT BREAKER - 70AMP				
5	740132	2	INSULATOR, GLASTIC				
6	740243	1	CONTACTOR 36V 124-117111				
7	742749	2	HEYCO, HOLE PLUG				
8	743464	1	SHUNT CALIBRATED ASSY				
9	746006	1	CIRCUIT BREAKER - 3A				
10	833638	2	BRASS STUD				

Console Assembly



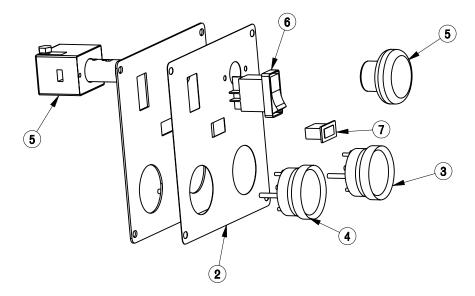


BILL OF MATERIAL - 260568					
ITEM	PART NO.	REQ'D	DESCRIPTION		
1	200104	1	HANDLE CONSOLE 200		
2	260538	1	FRONT BRKT HANDLE WELDMT		
3	260541	1	REAR HANDLE BRKT		
4	260544	1	PANEL COVER		
5	260569	1	DASH BRD ASSY, BURNISHER		
6	710195	6	SCR- MC 5/16-18 X .50		
7	711505	6	WSR-FLAT 1/4		
8	711544	6	WSR-HELICAL 1/4		
9	712540	8	SCR-MC TR HD 10-24 X .37 SS		
10	713002	6	BLT-HH 1/4-20 UNC-2A X 3/4 STL#5		



Dashboard Assembly

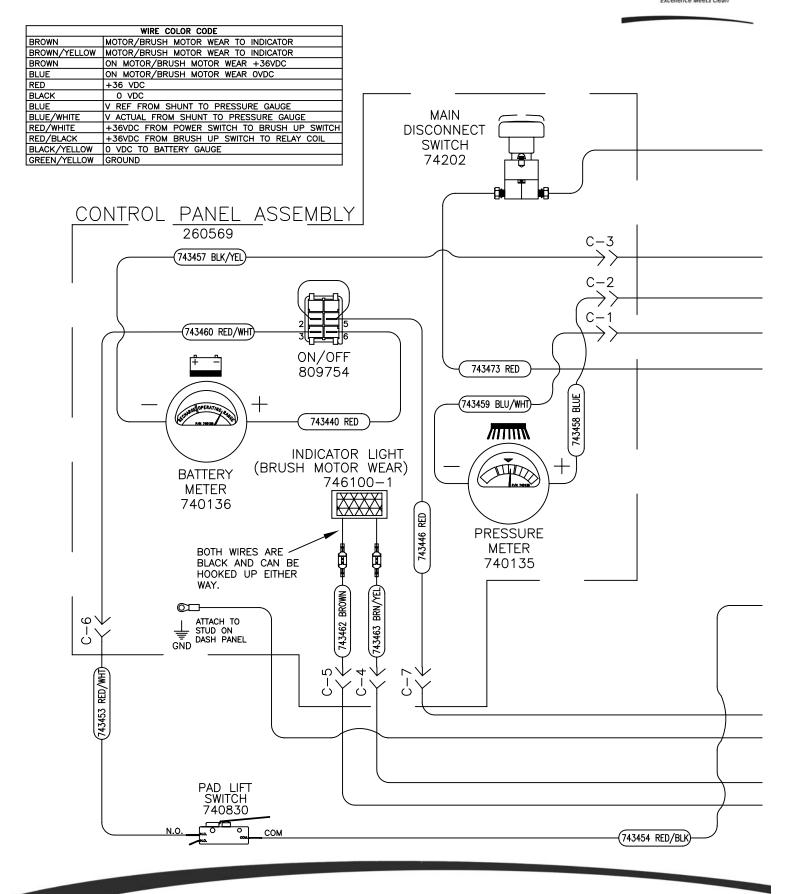
BILL OF MATERIAL - 260569						
ITEM	PART NO.	REQ'D	DESCRIPTION			
1	260546	1	DASHBOARD, BURNISHER			
2	715297	1	DECAL, LUMINA 20			
3	740135	1	METER, 100A DC (PRESSURE)			
4	740136	1	METER, VOLT 22V45V BATTERY			
5	742202	1	EMERGENCY STOP SWITCH			
6	809754	1	SWITCH, ROCKER			
7	746100-1	1	LIGHT ASSEMBLY			

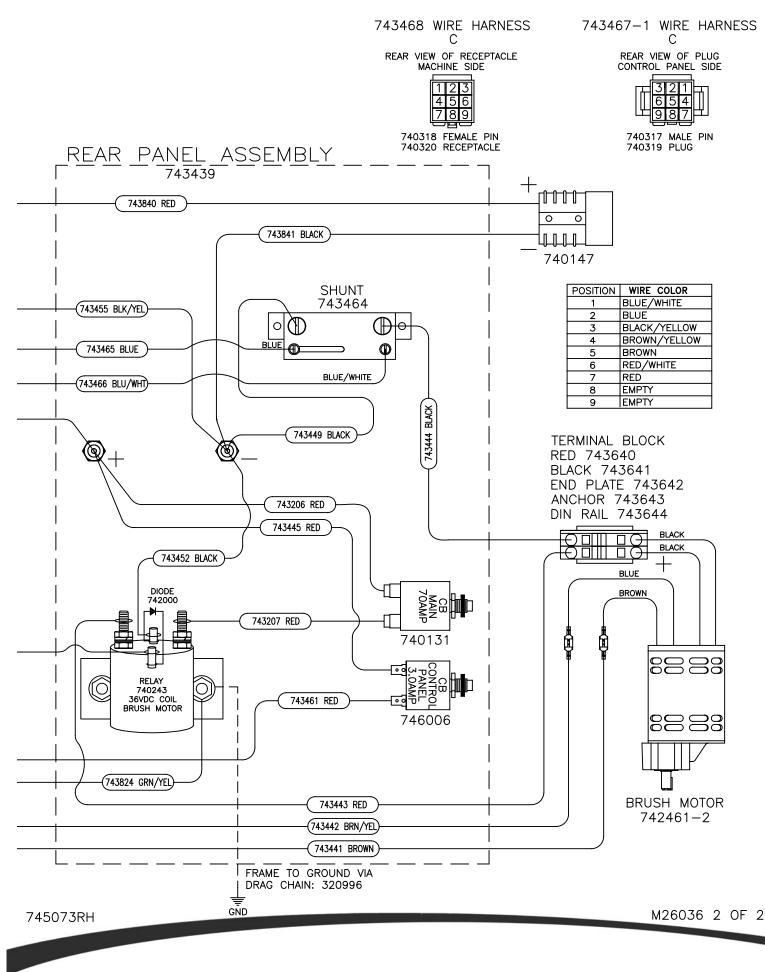


DUST SKIRT P/N 260595
CARBON BRUSH REPLACEMENTS P/N 572003 (QTY 4)
210 AMP HOUR BATTERY (OPTIONAL) P/N 956210
PAPER BAG REPLACEMENTS P/N 370202PKG

Wiring Diagram

M<u>inuteman</u>





REVISION H EFFECTIVE 05/30/2012



Minuteman International, Inc. warrants to the original purchaser/user that the product is free from defects in workmanship and materials under normal use. Minuteman will, at its option, repair or replace without charge, parts that fail under normal use and service when operated and maintained in accordance with the applicable operation and instruction manuals. All warranty claims must be submitted through and approved by factory authorized repair stations.

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 manufactured by Minuteman are covered by and subject to the warranties and/or guarantees of their manufacturers. Please contact Minuteman for procedures in warranty claims against these manufacturers.

Special warning to purchaser — Use of replacement filters and/or prefilters not manufactured by Minuteman or its designated licensees, will void all warranties expressed or implied. A potential health hazard exists without original equipment replacement.

All warranted items become the sole property of Minuteman or its original manufacturer, whichever the case may be.

Minuteman disclaims any implied warranty, including the warranty of merchantability and the warranty of fitness for a particular purpose. Minuteman 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 is not responsible for costs or repairs performed by persons other than those specifically authorized by Minuteman. 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.

Cord Electric Group: Three years parts, two years labor, ninety days travel (Not to exceed two hours)

Exceptions.....

Model	Parts	Labor	Poly	Travel
Port A Scrub	1 yr	6 months	10 yrs	0
MPV 13	1 yr	0	0	0
MPV 14 & 18	2 yrs	1 yr	0	0
Phenom Upright Vacuums	1 yr	1yr	0	0
Rapid Air Blower	1 yr	1 yr	10 yrs	0
Explosion Proof Vacuum	1 yr	1 yr	0	0
C-BOX 100, H-BOX 200 & TRS 14	1 yr	1 yr	10 yrs	0
E17 & E20 Electric Scrubbers	1 yr	6 months	10 yrs	0
Pneumatic Vacuums	3 yr	1 yr	0	0
Description	Parts	Labor	Poly	Travel
Battery Operated Group	3 yrs	2 yrs	10	90 days
Sweepers	1 yr	1 yr	10	90 days
Internal Combustion Group	1 yr	1 yr	10	90 days
				Not to exceed two hours
Exception: PAS 14B	1 yr	1 yr	10 yr	0

Battery Chargers: Replacement

One year replacement Parts: Ninety days

Replacement Batteries: Polyethylene Plastic Tanks:

0-3 months replacement, 4-12 months pro-rate

Tanks have 10yr warranty, no additional labor

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