



Parts and Instruction Manual

MPV31 Wide Area Vacuum

This manual is furnished with each new **MINUTEMAN MPV-31**. 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	MPV-31
Model No.	C27120-00 (120 Volt / 60Hz) C27230-00 (230 Volt / 50Hz)
Sound Level	72dB
Dimensions (LxWxH)	37" x 31" x 18" (94cm x 79cm x 46cm)
Gross Weight	100 lbs. (45 kg)
Brush	30" (76cm)
Brush Speed	1550 RPM
Air Flow	212 CFM (100 ltr/sec)
Waterlift	63" (1600mm)
Bag Volume	1.2 Bushels
Wheels-Front	

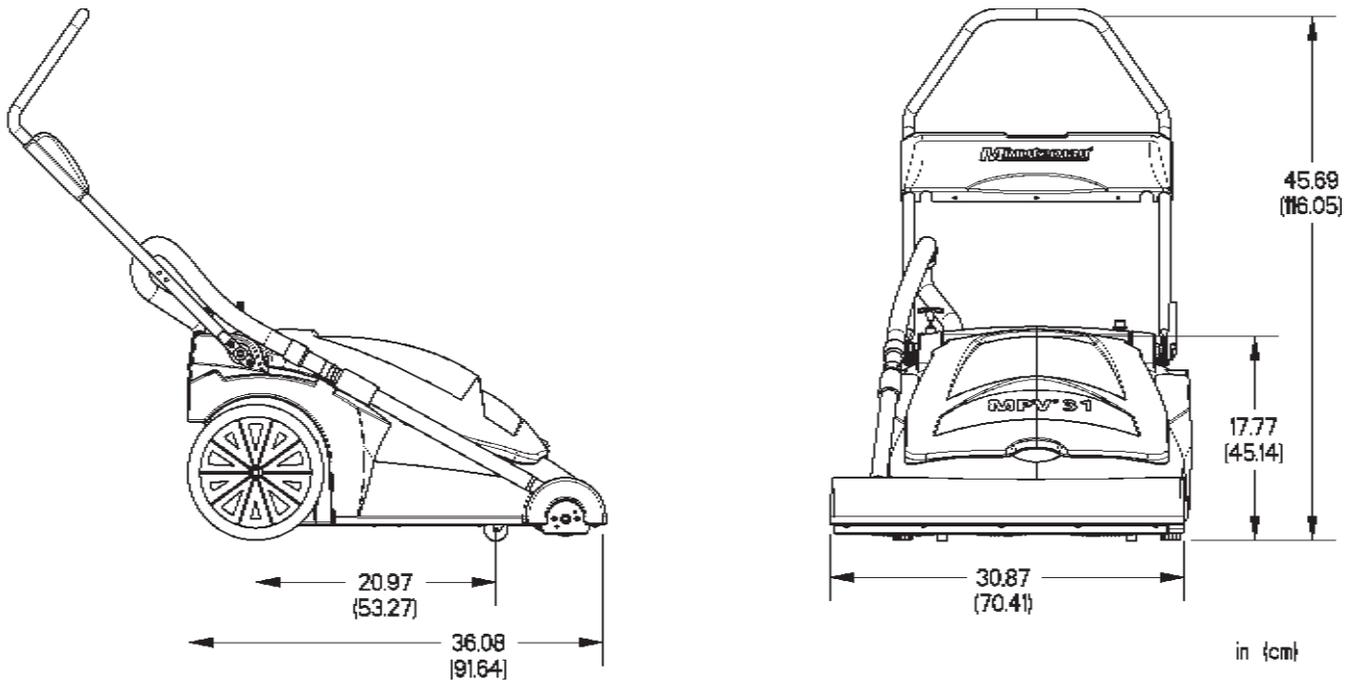


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FOR COMMERCIAL USE ONLY

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 plugged in. Unplug from outlet when not in use and before servicing.

WARNING

To avoid electric shock, use indoors only.

- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Use only as described in this manual. Use only manufacturer's recommended attachments.
- 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.
- 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 air flow.
- 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 where they may be present.
- Connect to a properly grounded outlet only. See grounding instructions.
- Stop only on level surfaces.

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. Read all instructions carefully before operating.

WARNING

To avoid electric shock, use indoors only.

- Electrical motors can cause explosions when operating near explosive materials or vapors. Do not operate this machine near flammable materials such as solvents, thinners, fuels, grain dust, etc.

Electrical - 115 Volt

This machine is designed to operate on a standard 15 amp. 115 volt, 60 hz, AC circuit. Voltages below 105 volts AC or above 125 volts AC could cause serious damage to the motor.

Electrical - 240 Volt

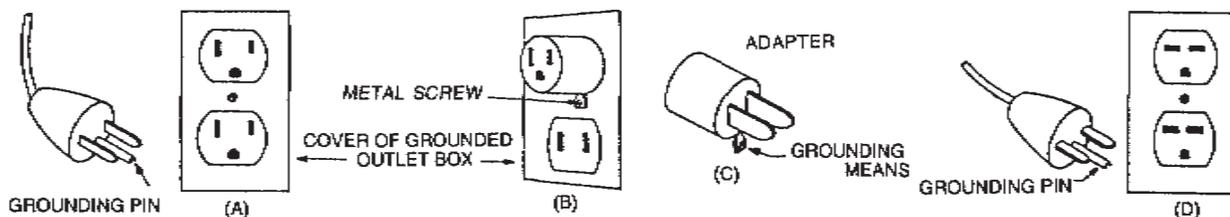
This machine is designed to operate on a standard 16 amp. type L fused 230 volt, 50 hz, AC circuit. Voltages below 200 volts AC or above 250 volts AC could cause serious damage to the motor. I.E.C. Class 1.

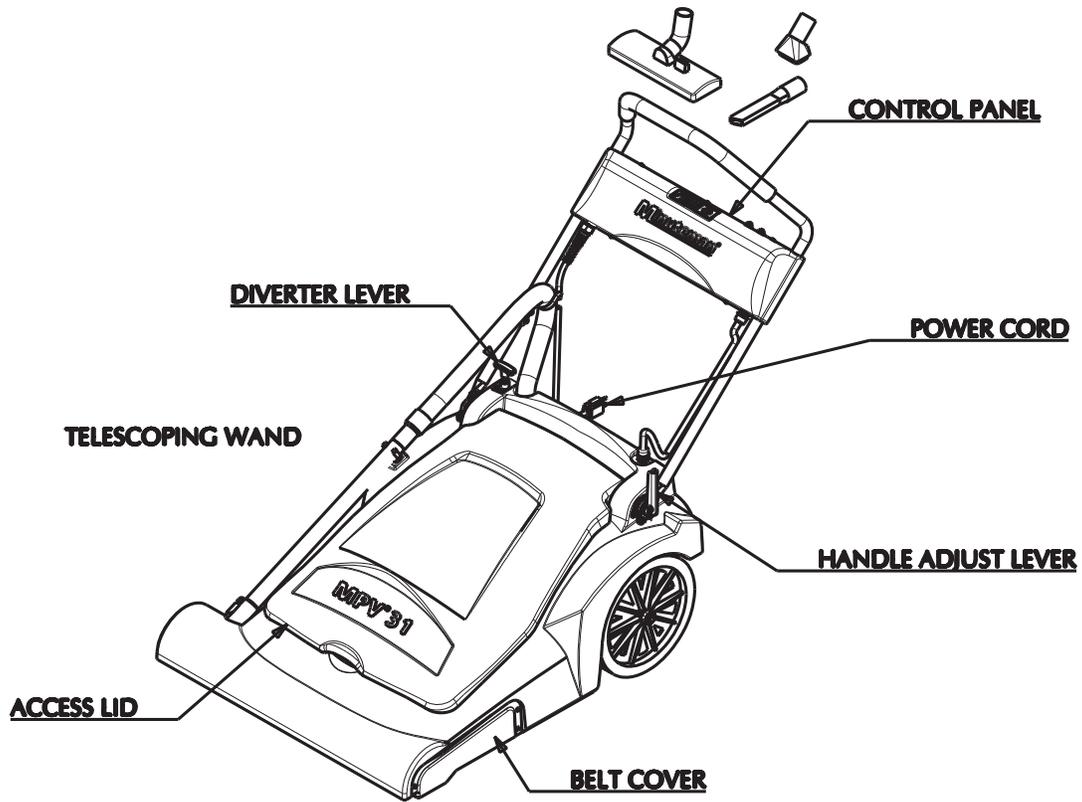
Grounding Instructions

To protect the operator from electrical shock, this machine must be grounded while in use. This machine is equipped with an approved three-conductor power cord and grounding type plug to fit the proper grounding type receptacle.

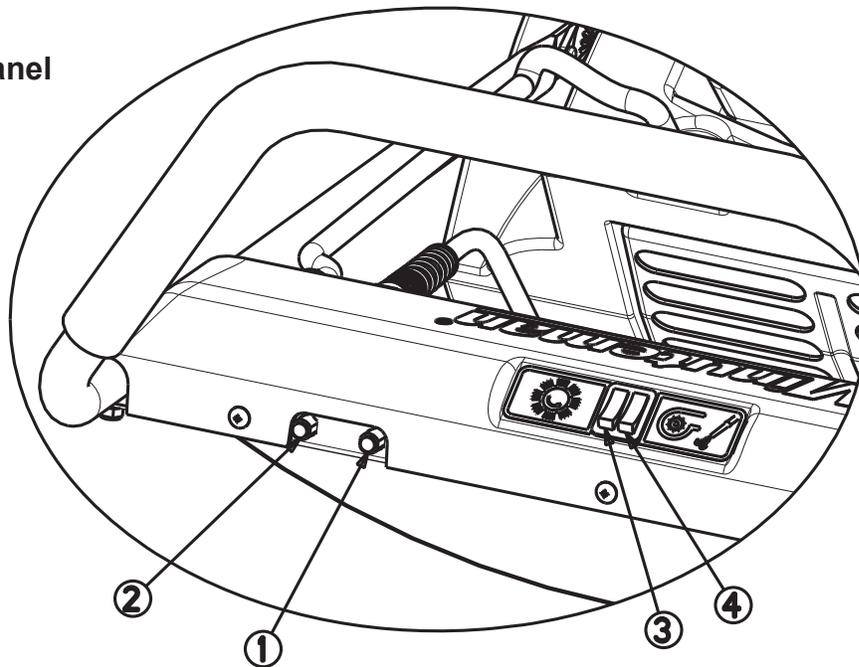
This machine is for use on a nominal 120-volt circuit and has a grounding plug that looks like the plug illustrated in sketch A. Make sure that the machine is connected to an outlet having the same configuration as the plug. No adapter should be used with this machine.

For equipment rated 150-250 volts: If the machine is provided with an attachment plug as shown in sketch below, it is intended for use on a 240 volt (nominal circuit.) No adapter is available for this plug.



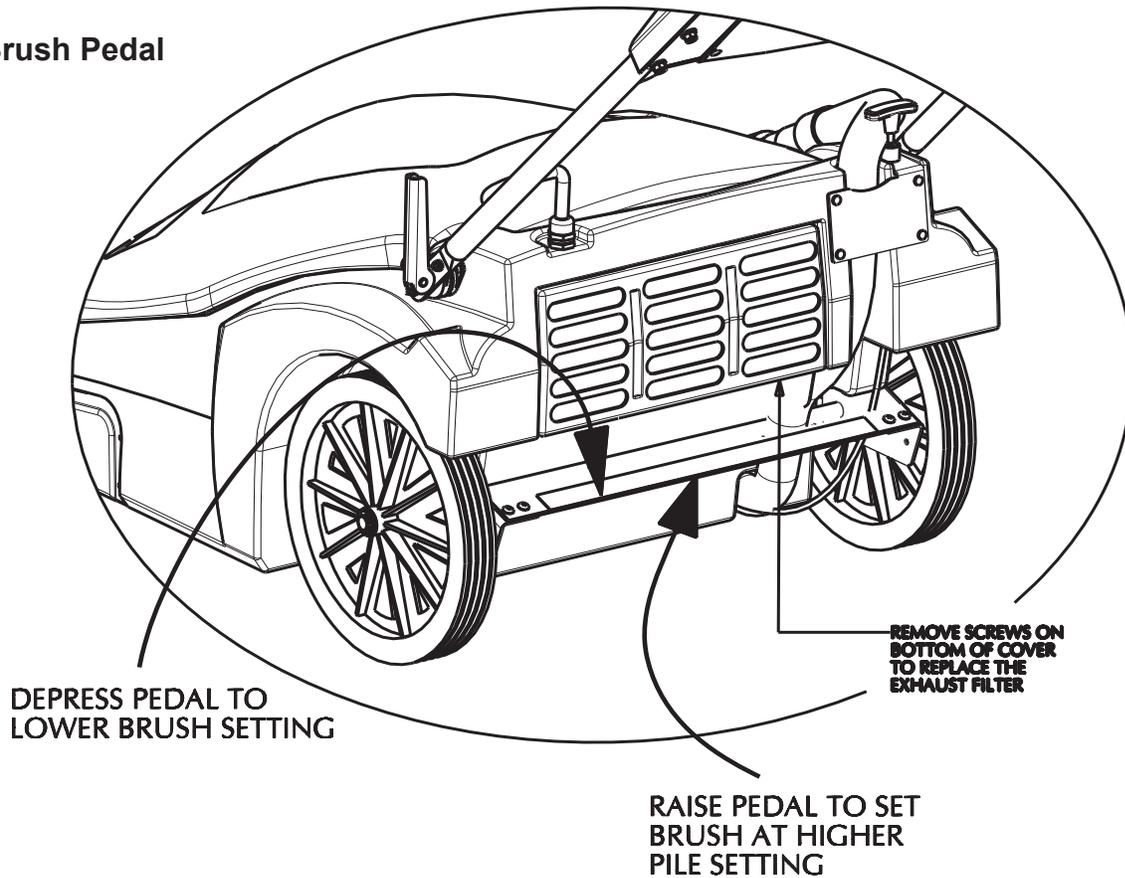


Control Panel

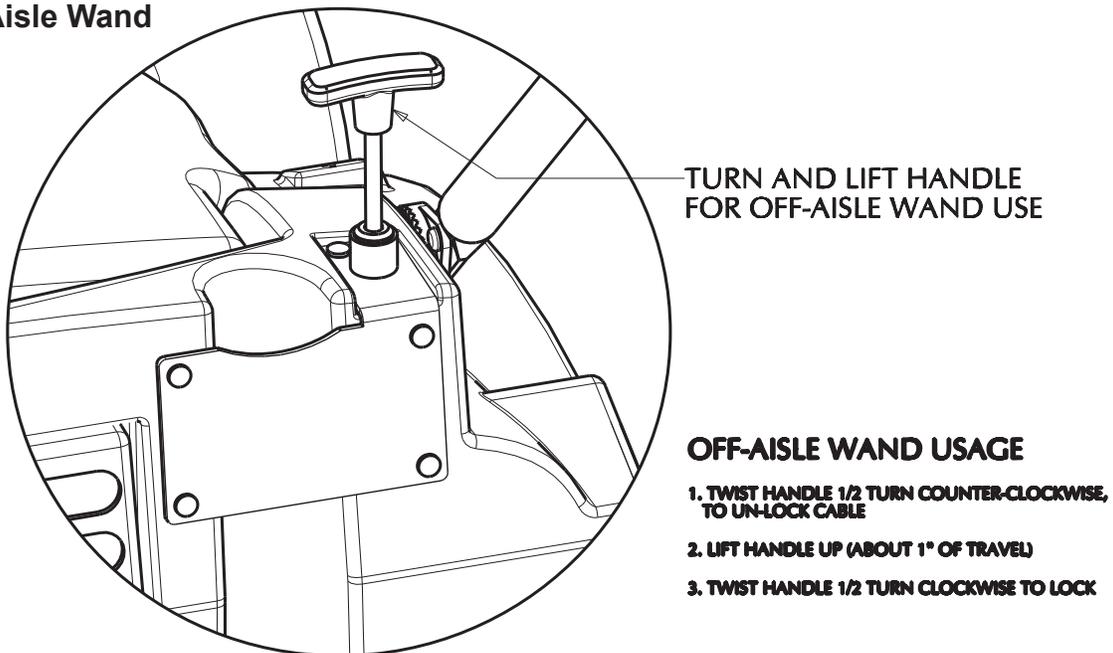


1. CIRCUIT BREAKER - BRUSH MOTOR - 3A (120 VAC) - 1.5A (240 VAC)
2. CIRCUIT BREAKER - VAC MOTOR - 15A (120 VAC) - 10A (240 VAC)
3. BRUSH POWER SWITCH
4. VACUUM POWER SWITCH

Brush Pedal



Off-Aisle Wand



The MPV-31 is designed primarily for use on carpet, although it also performs very well on hard surface floors. Sand, dust, paper, etc. are readily vacuumed from these types of floors. However, it is not recommended that this machine be used to vacuum metal slugs, shavings, or similar type of debris from floors, carpeted or otherwise.

Inspect MPV-31 carton for shipping damage when received. Report any damage to delivering freight carrier immediately.

Operating Instructions

Before starting, familiarize yourself with machine and controls (see 'Machine Overview' and 'Control Panel' diagrams). Large debris such as paper cups, plates, etc. should be picked up before starting the cleaning process. To operate machine, do the following:

1. Make sure unit is used only on voltage shown on nameplate.
2. From storage position (handles folded), position machine so all four wheels are on floor.
3. Adjust handle to a desired and comfortable position by lifting up on adjustment lever located on left side of machine at base of metal handle. After desired handle position is set, lock in place by closing adjustment lever.
4. Install paper and/or cloth bags inside main compartment by pushing rubber collar onto flanged bag adaptor.
5. If using both bags, install cloth bag as described above, unzip it, and place paper bag inside. Push rubber gasket seal over adaptor. Zip up cloth bag and make sure there is no damage to paper bag. Close lid.
6. There are four (4) brush settings for different carpet piles. This can be adjusted by either depressing foot pedal (lowest level) for short naps, such as indoor/outdoor carpeting, or by lifting pedal for taller naps (highest setting). **Set brush height to lightly hit carpet surface.**
7. Turn on vacuum and brush switch (see control panel). Keep machine moving while brush is activated. Damage to carpet could occur if brush is kept in same spot.
8. The rate at which the operator pushes machine depends on debris load, type of debris, and carpet nap length. In areas where large amounts of 'tracked in' sand are present, carpets should be vacuumed with a double pass (forward and backward pass made without turning machine around at the end of one pass). A slow, moderate walking pace by the operator normally gives a good cleaning result.
9. To use off-aisle wand, turn off brush power switch, pull up and twist to lock control cable (see machine overview) to divert air from main nozzle to auxiliary hose.
10. For storage, handle may be folded over and machine parked in an upright position to increase closet space. To fold for storage, unlock handle adjustment lever when the machine is on all four wheels, push handle forward as far as it will go and relock the handle adjustment lever. Tilt machine back on large wheels until it is in an upright position and ready to be stored.

Periodic maintenance should be followed for good performance and longer machine life. **Unplug power cord from electrical source before making any repairs or adjustments to machine.**

Daily:

For cloth bags, shake down bag daily. For paper bags, check if full and replace as necessary.

Check power cord for damaged or frayed insulation.

Return machine to 'storage' position when not in use.

Check and remove any string, lint, or debris from around brush and brush housing.

Monthly:

Remove rear wheels and clean axle. Apply thin coat of silicone lubricant on each wheel axle and front casters. This should be done at least twice a year.

The cloth filter bag can be washed twice before losing its filtering capabilities. Wash with mild detergent and cool water, drip dry. Make sure bag is totally dry before reinstalling to machine, otherwise electrical shock may occur.

Inspect all hoses, cables, filters, and gaskets. Clogged filters and damaged hoses and gaskets can result in loss of vacuum.

Brush Adjustment/Replacement

Inspect brush for wear. Adjust or replace brush when necessary.

Adjustment:

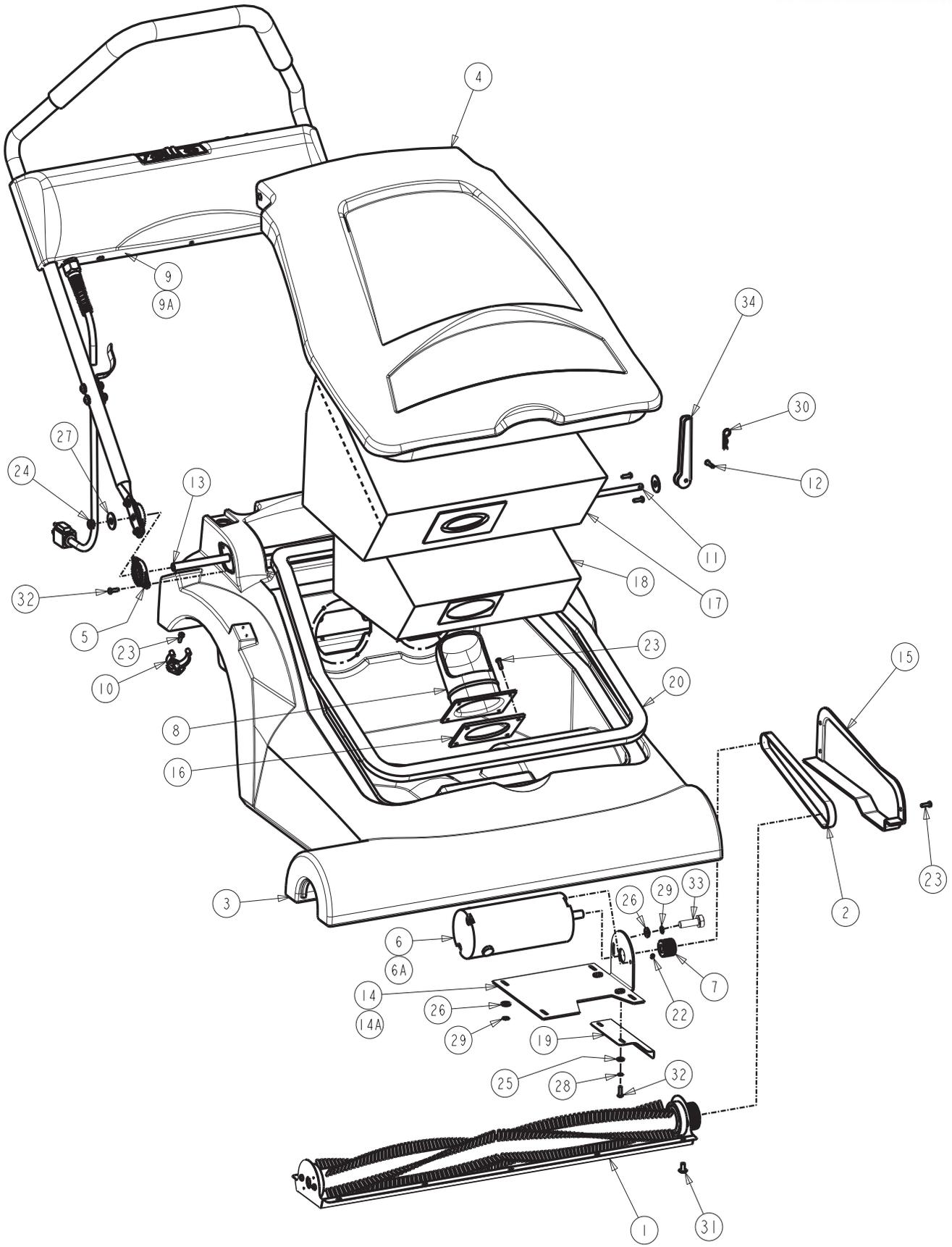
1. The brush housing is set up so you can change the brush position to extend the brush life. When bristles are worn down enough so there is no contact with floor on lowest setting, you may reposition brush as described:
2. Unplug power cord from electrical source.
3. Remove belt cover by removing three #10 Hi/Lo screws.
4. Remove the two #10-32 screws and washers from each end of brush housing (it may be necessary to remove housing assembly for easier access).
5. Rotate bearing retainer ring and bearing support ring so that they line up with second set of mounting holes, which lowers the brush by 1/16".

Replacement:

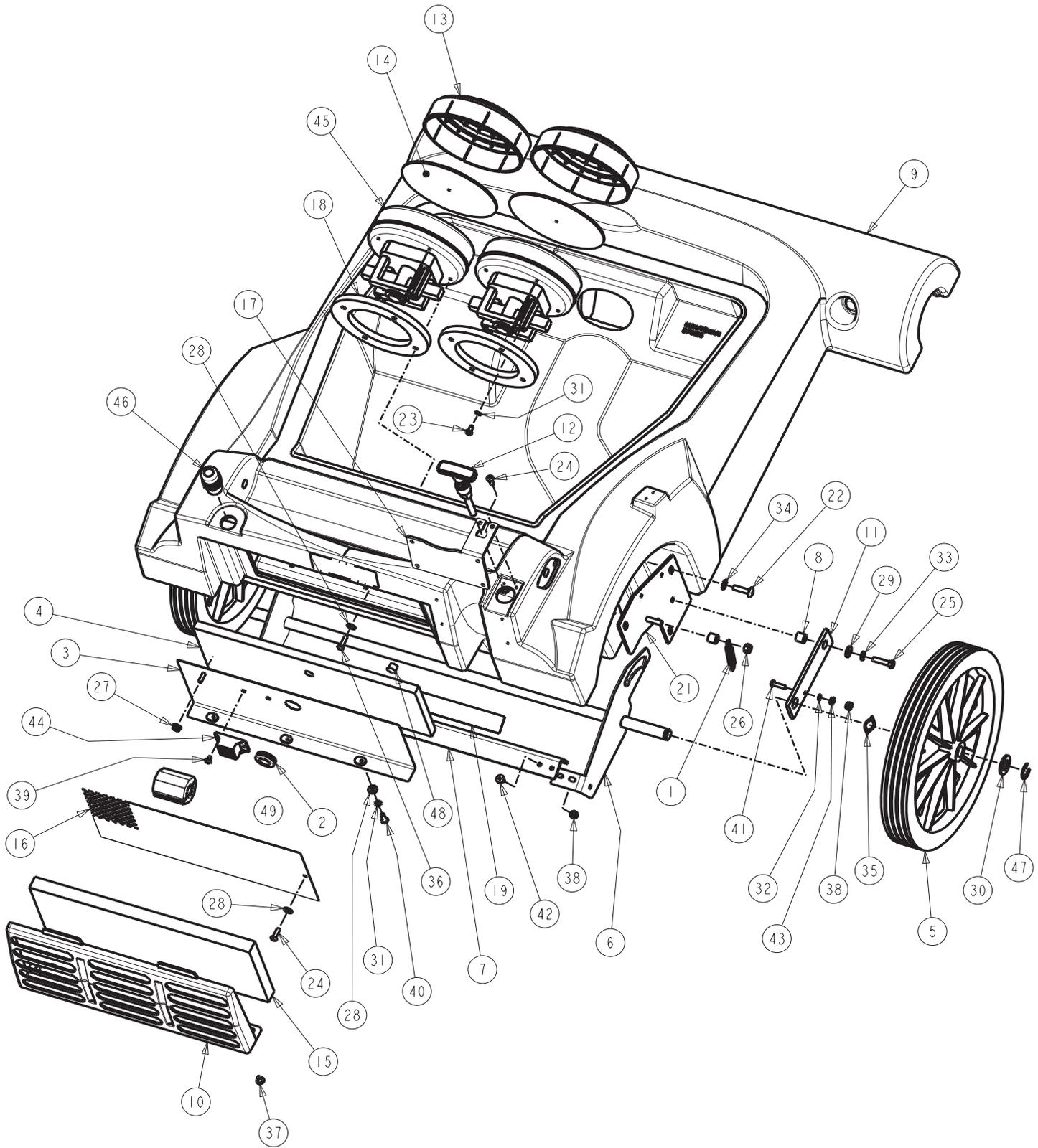
1. Unplug power cord from electrical source.
2. Remove belt cover by removing three #10 Hi/Lo screws.
3. Loosen brush motor plate and roll belt off brush pulley.
4. Remove the ten screws securing brush housing assembly from main body.
5. Loosen set screw, remove pulley from shaft.
6. Remove the two screws and washers from each end of brush assembly.
7. Remove the two flathead screws that attach brush to shaft, slide shaft out of brush core.
8. Inspect bearings; make sure to remove the two bushings at each brush end to replace them on new brush.
9. Install new brush to shaft and assemble accordingly.
10. When attaching bearing retainer and supporting ring, make sure screws and washers are placed on normal (horizontal) position otherwise machine will not function right.
11. After reinstalling brush housing assembly check for proper belt tension.

Exploded Views

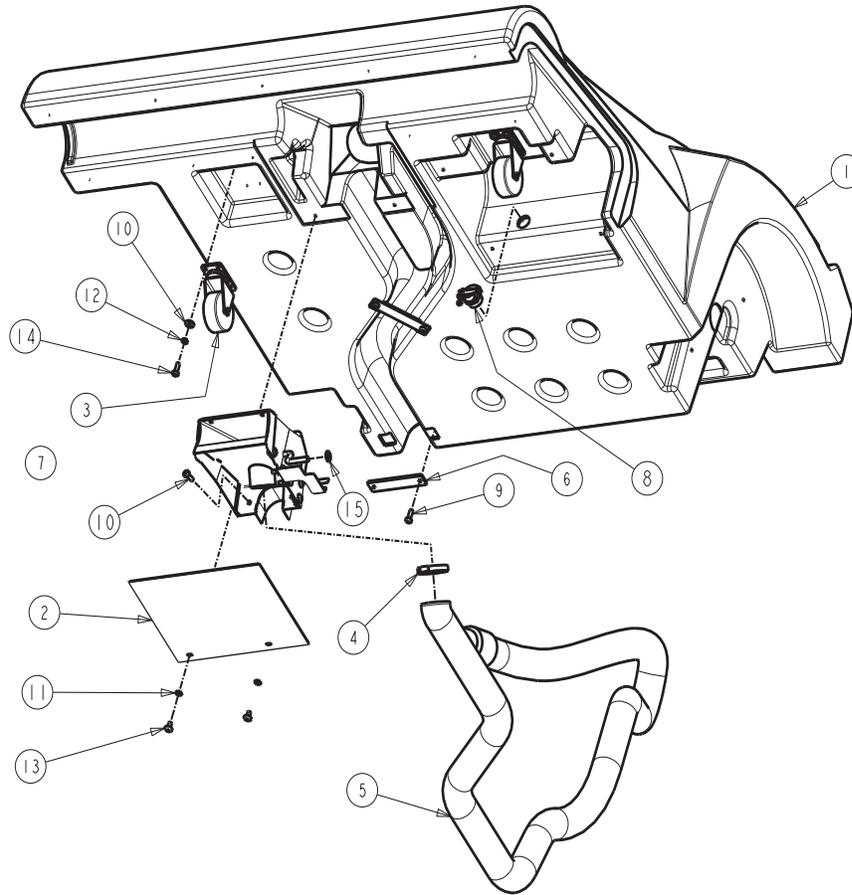
Main Assembly Front



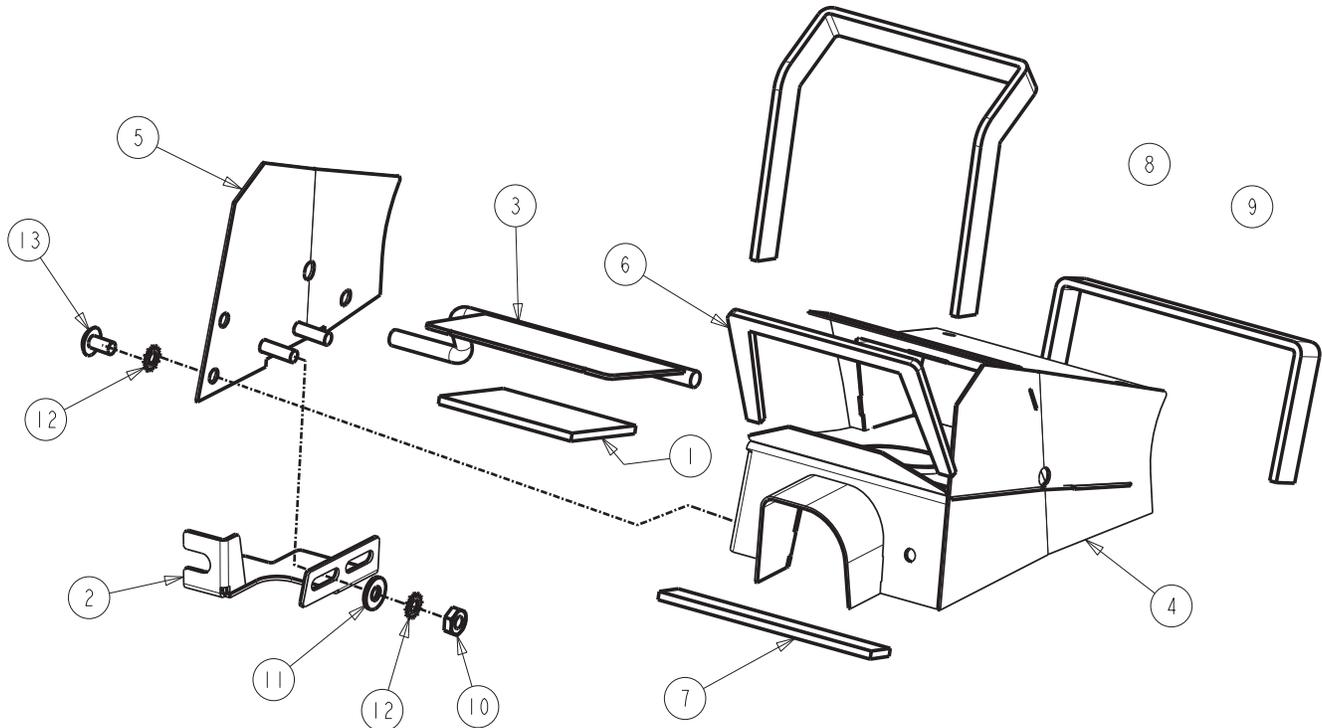
BILL OF MATERIAL			
ITEM	PART NO.	QTY	DESCRIPTION
1	270101	1	BRUSH MAIN ASSY
2	270112	1	BELT, BRUSH DRIVE
3	270125B	1	BODY WIDE AREA VAC, BLUE
4	270126B	1	LID, WIDE AREA VAC, BLUE
5	270143	2	HANDLE PIVOT JAW
6	270144-1	1	BRUSH MOTOR (115V)
	270144-240-1		BRUSH MOTOR (240V)
7	270145	1	PULLEY, BRUSH MOTOR
8	270146B	1	BAG ADAPTER FLANGE, BLUE
9	270159	1	HANDLE ASSY WAV (115V)
	270159-230		HANDLE ASSY WAV (240V)
10	270161	1	TOOL CLIP
11	270163	1	HANDLE TENSION ROD
12	270164	1	CLEVIS PIN, .188 X .875
13	270166	1	HANDLE ADJUST TUBE
14	270173	1	BRUSH MOTOR BRACKET
15	270174	1	BELT COVER
16	270181	1	GASKET, NOZZLE ADAPTER
17	270182	1	FILTER BAG, CLOTH (OPTIONAL)
18	270183	1	FILTER BAG, PAPER
19	270187	1	BELT GUARD, REAR
20	270193	1	GASKET, LID
21	361218	2	CABLE TIE, BLACK
22	711003	2	SCR-SK 10-32 X .25
23	711161	9	SCR HI/LO #10 3/4 PL
24	711375	1	NUT-NYLOC 3/8-16 X 1/2 NUT
25	711503	2	WSR, FLAT #10
26	711505	6	WSR-FLAT 1/4
27	711507	2	WSR-FLAT .37 X 1.12 X .06
28	711534	2	WSR-EXTERNAL LOCK #10
29	711564	6	WSR-EXTERNAL LOCK 1/4
30	711808	1	COTTER PIN-HAIR #13
31	712560	10	SCR-MCH 1/4-20 X .50 SS NYL
32	712812	6	SCR-MC 10-24 X .62 PPH ST PL
33	713002	6	BLT-HH 1/4-20 X 3/4 #5
34	270178MCH	1	LEVER, KICK, W/HOLE



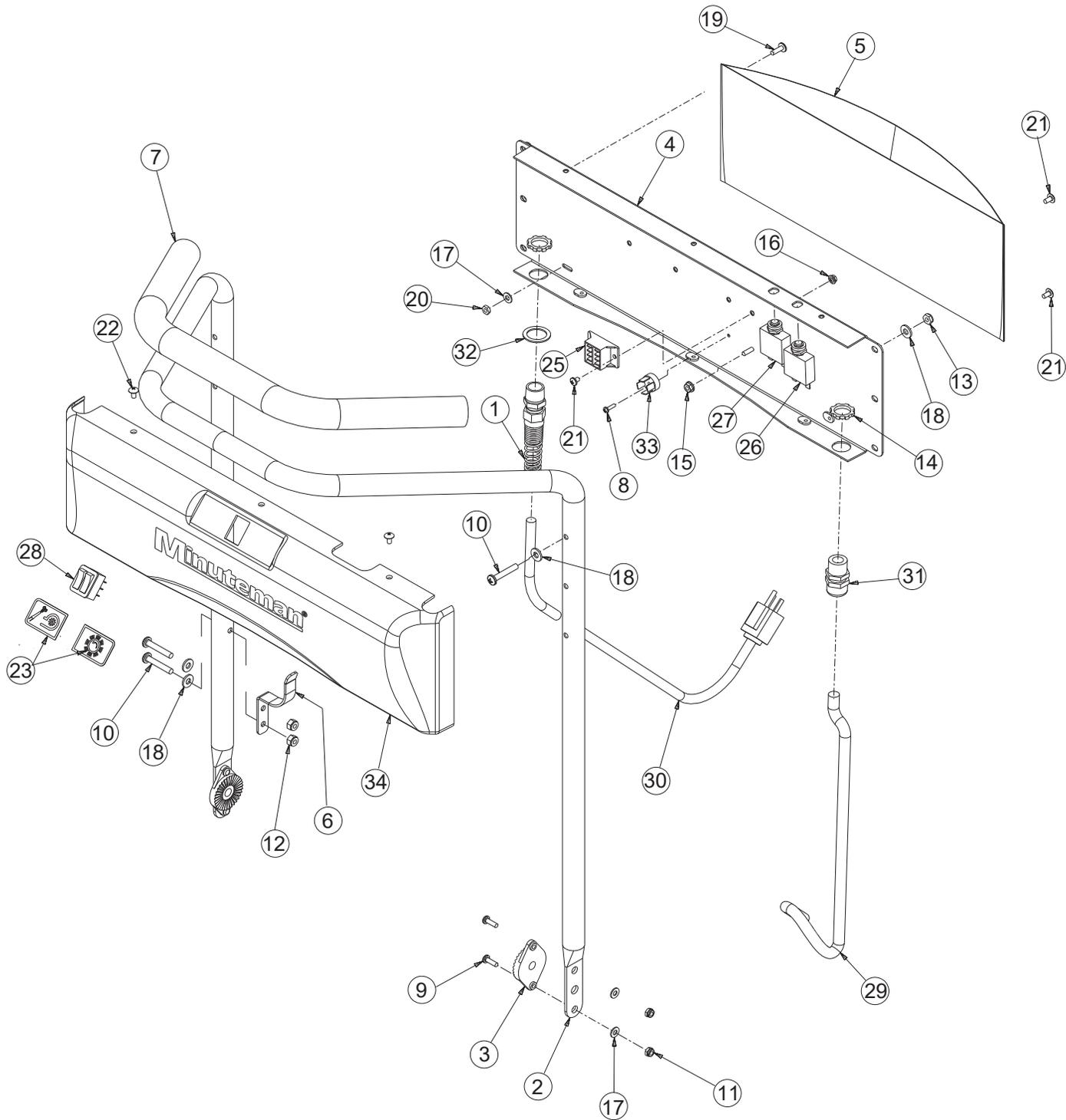
BILL OF MATERIAL							
ITEM	PART #	QTY	DESCRIPTION	ITEM	PART #	QTY	DESCRIPTION
1	210413	2	SPRING, EXTENSION	26	711373	2	NUT-HEX 1/4-20
2	260274	1	GROMMET Z-421	27	711427	1	NUT-FLANGED WIZZ 10-32
3	270115	1	SOUND ISOL. PLT - WMT	28	711503	13	WSR-FLAT #10
4	270116	1	SOUND ISOLATION FELT	29	711505	2	WSR-FLAT 1/4
5	270117	2	WHEEL, REAR	30	711527	2	WSR-FLAT .63 X 1.12 X .09
6	270118	1	REAR AXLE WELDMENT	31	711534	5	WSR-EXTERNAL LOCK #10
7	270122	1	FOOT ADJUST BAR	32	711543	2	WSR-HELICAL #10
8	270124	4	WHEEL ROLLER TUBE	33	711544	2	WSR-HELICAL 1/4
9	270125B	1	BDY, WD AREA VAC, BLUE	34	711565	6	WSR-EXTERNAL LOCK 5/16
10	270127	1	EXHAUST FILTER COVER	35	711583	2	WSR-WAVE .78 X 1.00 X .02
11	270133	2	OFFSET ARM	36	712131	8	SCR-TR 10-24 X .75 - TORX
12	270138	1	REM. CBL ASSY, DIVERTER	37	712540	2	SCR-MC 10-24 X .37 SS TH
13	270147	2	DOME FILTER	38	712638	6	NUT, HEX 10-24 SS NYLOC
14	270148	2	POST FILTER, DOME	39	712800	2	SCR-MC 10-24 X .24 ST PL
15	270168	1	EXHAUST FILTER	40	712812	3	SCR-MC 10-24 X .62 PPH
16	270186	1	EXHAUST FLTR SUPPORT	41	712813	2	SCR-MC 10-24 X .75 STPL
17	270189	1	HOSE RETAINER - LARGE	42	712822	4	SCR-MC 10-24 X .50 TH SS
18	270210	2	SEAL W/MTG HOLES	43	712900	2	NUT-HEX 10-24 STPL
19	270215	1	NON-SLIP STRIP	44	741300	1	TERMINAL BLOCK C=2 P=4
20	270218	1	WHEEL BCK PLT WMT - LF	45	746004	2	VAC MTR ASSY WAV (115V)
21	270219	1	WHEEL BCK PLT WMT - RT		746027		VAC MTR ASSY WAV (240V)
22	710182	6	SCR-MC 1/4-20 X 1.00 STPL	46	746033	1	HEYCO 3200, STRN RELIEF
23	711124	2	PAN HEAD ST #10 X .37 IN	47	808756	2	E RING .62 5133-62
24	711161	8	SCR-HI/LO #10 X 3/4 PL	48	830804	5	HOLE PLUG - HEYCO BLK
25	711207	2	BLT-HH 1/4-20 X 1.00 STPL				



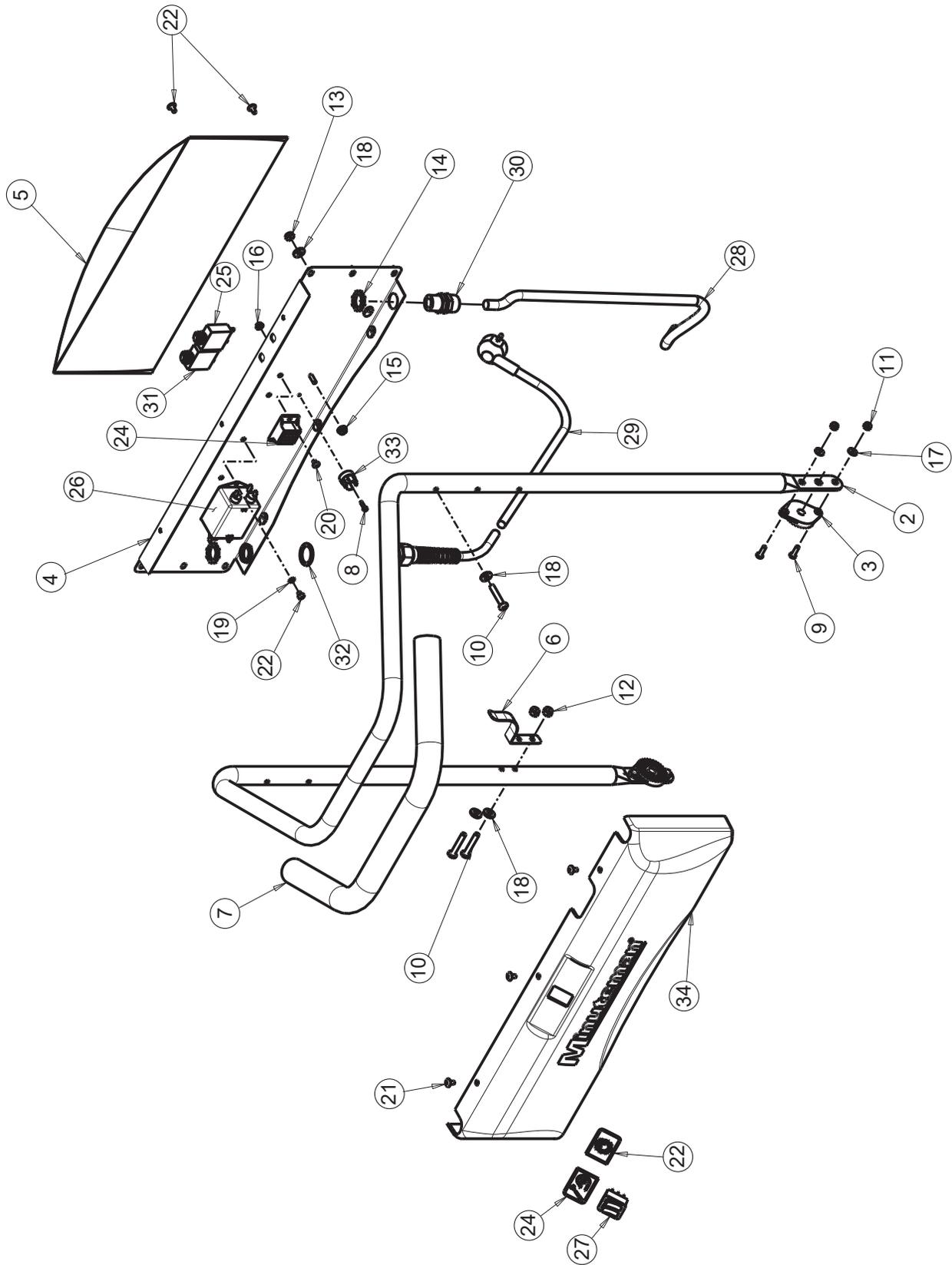
BILL OF MATERIAL			
ITEM	PART NO.	QTY	DESCRIPTION
1	270125B	1	BODY, WIDE AREA VAC, BLUE
2	270134	1	DIVERTER BASE PLATE
3	270141	2	CASTER - 2.00" DIA JARVIS
4	270142	1	CRIMP CLAMP 1-5/8 DIA (410R)
5	270160	1	HOSE AND CUFF ASSY
6	829565MCH	1	TELESCOPING WAND
7	270188	3	HOSE RETAINER - SMALL
8	270204	1	DIVERTER ASSY
9	270217	1	STRAIN RELIEF, ROMEX 1/2"
10	711161	8	SCR HI/LO #10 X 3/4 PL
11	711503	8	WSR, FLAT #10
12	711534	2	WSR-EXTERNAL LOCK #10
13	711543	8	WSR-HELICAL #10
14	712540	2	SCR-MC 10-24 X .37 SS TH
15	712812	8	SCR-MC 10-24 X .62 PPH ST PL
16	75-89-A	1	SPEED NUT



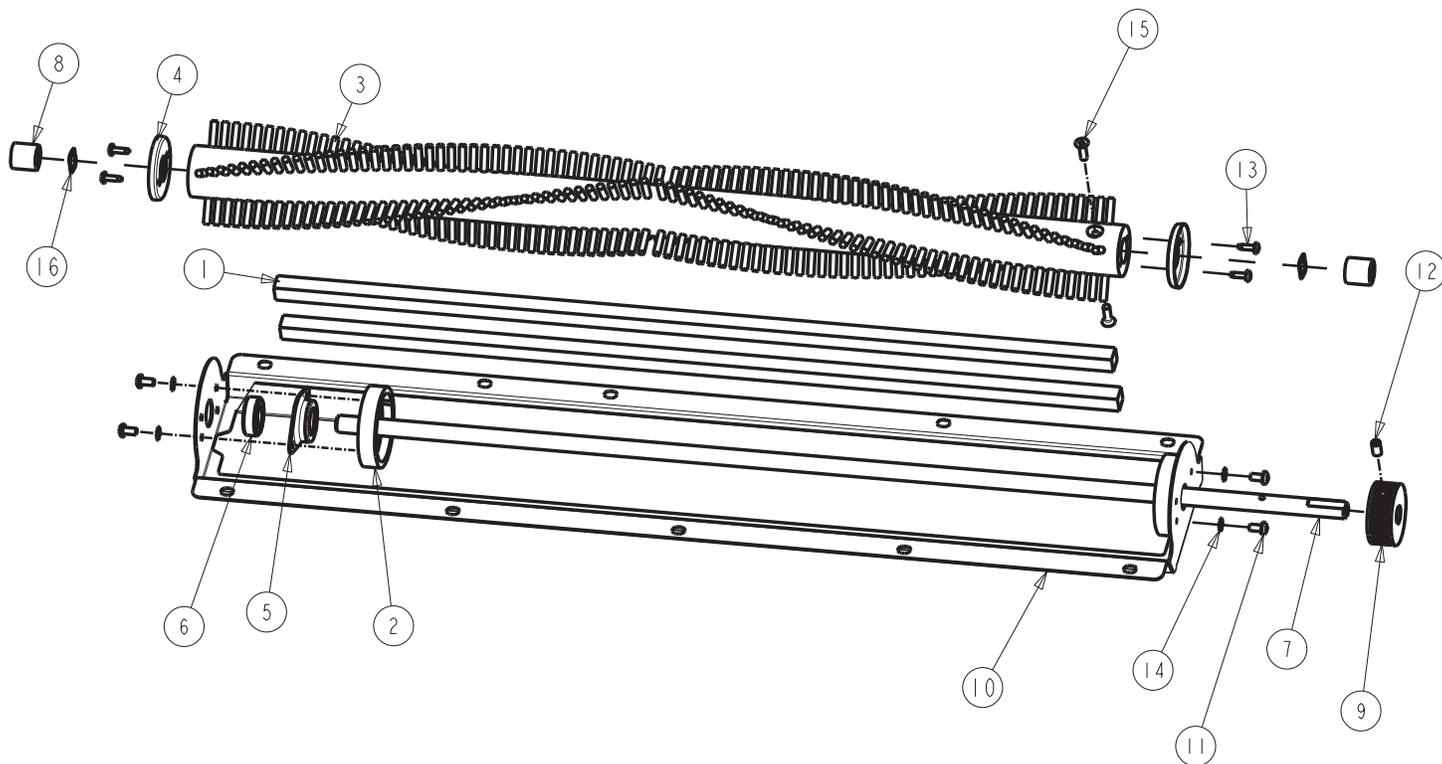
BILL OF MATERIAL			
ITEM	PART NO.	QTY	DESCRIPTION
1	270190	1	DIVERTER FLAP GASKET
2	270191	1	DIVERTER CABLE ADJ BRACKET
3	270196	1	DIVERTER FLAP SUB-ASSY
4	270197	1	DIVERTER BASE ASSY
5	270202	1	DIVERTER WALL -RIGHT
6	270208	1	DIVERTER FLAP SEAL
7	270211	1	DIVERTER SEAL - REAR
8	270212	1	DIVERTER SEAL - TOP
9	270213	1	DIVERTER SEAL - FRONT
10	711310	2	NUT, HEX 10-32 ST PL
11	711503	2	WSR, FLAT #10
12	711534	5	WSR-EXTERNAL LOCK #10
13	712540	3	SCR-MC 10-24 X .37 SS TH



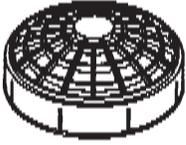
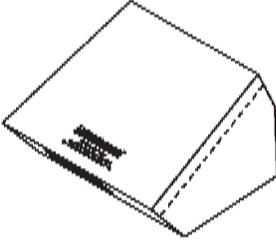
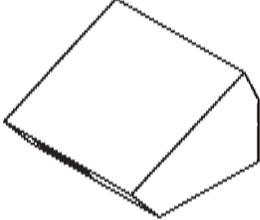
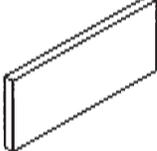
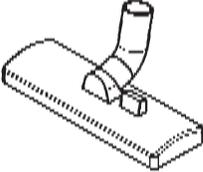
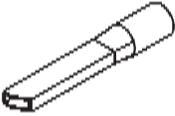
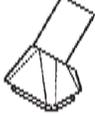
BILL OF MATERIAL - 270159			
ITEM	PART NO.	QTY	DESCRIPTION
1	150003	1	RELIEF, STRAIN 100 X 50
2	270113	1	HANDLE, WIDE AREA VAC
3	270143	2	HANDLE PIVOT JAW
4	270154	1	TOOL CADDY WELDMENT
5	270167	1	TOOL NET, MESH
6	270216	1	HANG-UP HOOK
7	360108	1	HANDLE, SLEEVE
8	710303	1	SCR-MC 6-32 X .50 ST PL PAN HD
9	710356	4	SCR-MC 10-32 X .62 PAN HD
10	710385	8	SCR-MC 1/4-20 X 1.50 ST NI
11	711350	4	NUT NYLOC 10-32
12	711373	2	NUT-NLOC 1/4-20
13	711387	6	NUT-NYLOC 1/4-20 1/2 NUT
14	711400	2	NUT-PIPE LOCK 1/2"
15	711427	1	NUT-FLANGED WIZZ 10-32
16	711435	1	NUT-FLANGED WIZZ 6-32
17	711503	6	WSR, FLAT #10
18	711505	14	WSR-FLAT 1/4
19	712536	2	SCR-MC 10-24 X .62 SS
20	712638	2	NUT, HEX 10-24 SS NYLOC
21	712800	4	SCR-MC 10-24 X .25 ST PL
22	712816	8	SCR-MC 10-24 X .37 STPL
23	715428	1	DECAL, BRUSH/VACUUM
24	740099	2	CABLE TIE - SMALL
25	741300	1	TERMINAL BLOCK C=2 P=4
26	746005	1	CIRCUIT BREAKER - 15A
27	746006	1	CIRCUIT BREAKER - 3A
28	746007	1	SWITCH, DREEFS DUAL 25A ILLUMINATED
29	746019	1	CORD ASSY 14/5 SJT
30	746021	1	CORD ASSY 12/3 X 75'
31	746033	1	HEYCO 3200, STRAIN RELIEF
32	829720	1	WASHER
33	831261	1	RECTIFIER 12A 400V
34	270155SP	1	TOOL CADDY TOP - PRINTED



BILL OF MATERIAL - 270159-230			
ITEM	PART NO.	QTY	DESCRIPTION
1	150004	1	STRAIN RELIEF, (PIGTAIL CORD GRIP)
2	270113	1	HANDLE WIDE AREA VAC
3	270143	2	HANDLE PIVOT JAW
4	270154	1	TOOL CADDY, BOTTOM
5	270167	1	BAG, MESH TOOL NET
6	270216	1	HANG-UP HOOK
7	360108	1	SLEEVE-HANDLE
8	710303	1	SCR-PHMS 6-32 X .50 ZP
9	710356	4	SCR-RHMS 10-32 X .62 ZP
10	710385	8	SCR-RHMS 1/4-20 X 1.50 NICKEL
11	711350	4	NUT-NYLOC 10-32 ZP
12	711373	2	NUT-NYLOC 1/4-20 ZP
13	711387	6	NUT-JAM 1/4-20 ZP NYLOC
14	711400	2	NUT-LOCK 1/2 ELECTRICAL NUT
15	711427	1	NUT-FLANGED WIZZ 10-32 ZP
16	711435	1	NUT-FLANGED WIZZ 6-32 ZP
17	711503	4	WASHER-FLAT #10 X .50 ZP
18	711505	14	WASHER-FLAT 1/4 ZP
19	711534	2	WASHER-EXT LOCK #10 ZP
20	712800	4	SCR-RHMS 10-24 X .25 ZP
21	712816	8	SCR-THMS 10-24 X .37 ZP
22	715428	1	DECAL-BRUSH / VACUUM
23	740099	2	CABLE TIE-SMALL
24	741300	1	TERMINAL BLOCK-C=2 P=4
25	741400	1	CIRCUIT BREAKER 10A PUSH BUTTON
26	742256	1	RFI FILTER CORCOM 10VS1
27	746007	1	SW-DREEFS DUAL 25A ILLUMINATED 125V LAMP
28	746019	1	CORD-14GA-5 52IN BLACK
29	746032	1	CORD, EUROPEAN 1.5MM-3 25M (82FT) GREY
30	746033	1	STRAIN RELIEF-HEYCO 1/2"
31	746035	1	CIRCUIT BREAKER-2.0AMP PUSH BUTTON
32	829720	1	WASHER-FLAT .908 X 1.215 X .058 SS
33	831261	1	RECTIFIER-12AMP 400V PY40F
34	270155SP	1	TOOL CADDY TOP, W/SCREE



BILL OF MATERIAL - 270101			
ITEM	PART NO.	QTY	DESCRIPTION
1	150209	2	FOAM TAPE 25"
2	270102	2	BEARING SUPPORT RING - MAIN BROOM
3	270103	1	BROOM - MAIN
4	270104	2	DUST CAP - MAIN BROOM BEARING
5	270105	2	BEARING RETAINER RING
6	270106	2	RADIAL BALL BEARING
7	270107	1	MAIN BROOM SHAFT
8	270108	2	BUSHING - MAIN BROOM SPACER
9	270109	1	BRUSH PULLEY
10	270110	1	BRUSH SHOE
11	710353	4	SCR-MC RD HD 10-32 X .37 STL
12	711016	1	SCR-SK 1/4-20 X .50 - CUP PT. SET SCR
13	711181	4	SCR-ST-B HI-LO #8 X .50 PL
14	711534	4	WSR-EXTERNAL LOCK #10
15	712826	2	SCR-FHMS 10-32 X .625
16	827903	2	WASHER

	270147	Dome Filter
	270148PKG	Post Filter, Dome (Qty 10/Pkg)
	270182	Filter Bag, Cloth
	270183PKG	Filter Bag, Paper (Qty 10/Pkg)
	270168	Exhaust Filter, Foam
	829561	Combination Floor Tool 1-1/4"
	829562	Crevice Tool 1-1/4"
	829563	Dust Bush 1-1/4"

Minuteman International Made Simple Commercial Limited Warranty

REVISION O EFFECTIVE 4/1/2016

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 pre-filters 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.

Model	Parts	Labor	Poly	Travel**
Cord Electric Group	5yrs	3yrs	12yrs	90 days
Battery Operated Group	5yrs	3yrs	12yrs	90 days

Exceptions.....

Model	Parts	Labor	Poly	Travel**
Port A Scrub, all models	1yr	6months	12yrs	90 days
A3S Blower	1yr	1yr	0	0
Phenom Dual Motor Upright Vacuums	2yrs	2yrs	0	0
Explosion Proof Vacuum	1yr	1yr	0	0
Propane Burnisher	1yr	1yr	0	90 days
**Travel, 2 hours max				

<i>Stand-alone Battery Chargers:</i>	One year
<i>Replacement Parts:</i>	Ninety days
<i>Batteries:</i>	0-3 months full replacement, 4-12 months pro-rate
<i>Polypropylene Plastic Tanks:</i>	12yr warranty, no additional labor

“Excellence Meets Clean”

**Minuteman is a Full Line Manufacturer of Sweepers and Scrubbers,
for Industrial Facilities.**

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