

# Electronic Service Manuals

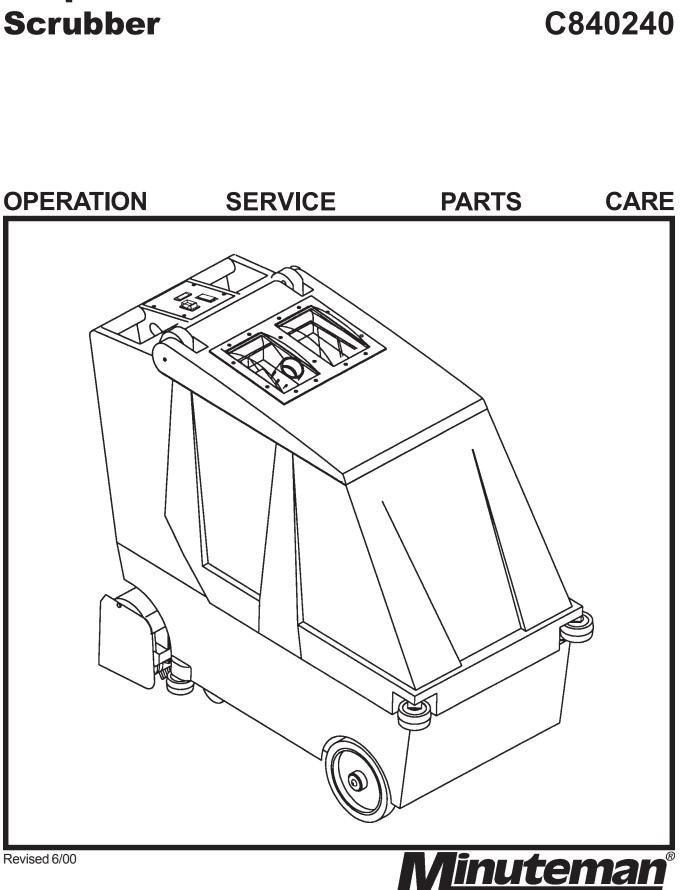
This electronic document is provided as a service to our customers. We do not create the contents of the information contained in this document. Should you have detailed questions pertaining to the information contained in this document, you may contact Michco, or the manufacturer which provided the original information in this electronic deliverable. Michco's only part in this electronic deliverable was the electronic assembly process. By providing this manual on line we are not guaranteeing parts availability.

> You may contact Michco through the following methods: Phone (517) 484-9312 or (800) 331-3339 2011 N. High St. -- Lansing, Michigan -- 48906 Fax: (517) 484-9836 Email: CustServe@Michco.com Web site: www.Michco.Com Parts Web site: www.FloorMachineParts.Com

> > Order Parts on Line at: www.FloorMachineParts.Com

Directly to Parts & Service: By Email: Shop@Michco.com By Fax: (517) 702-2041 By Voice: Use numbers above. Serving the Cleaning Industry Since 1922

Notice: All copyrighted material remains property of original owners, all trademarks are property of respective owners. Manuals are subject to Manufacturer's reproduction limitations. Originals or reproductions were provided by manufacturers through a request. We make no warranty as to the correctness of information provided in this document and you assume all risk. By placing these manuals on line we are not declaring our corporation to be an manufacturer authorized dealer or provider, please check our web site for authorized manufacturers we represent.



Automatic Carpet Scrubber Model: C840115 C840240

# 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.

### WARNING

To reduce the risk of electrical 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.
- 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.

### 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 delivery 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.
- Electrical motors and components can cause an explosion when operated near volatile materials and vapors. Do not use this machine near flammable materials such a solvents, thinners, fuels, grain dust, etc.

# ELECTRICAL - 115 Volt Model C840115

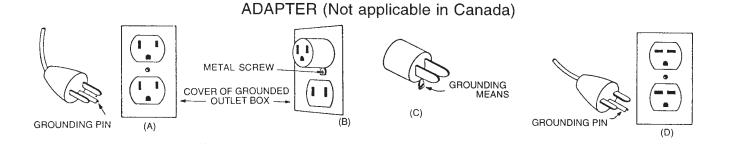
This machine is designed to operate on a standard 15 amp. 120 volt, 60 hz, AC circuit. Voltages below 105 volt AC or above 125 volts AC could cause serious damage to the motor.

### ELECTRICAL - 240 Volt Model C840240

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

# **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-conductor cord and 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.
- Floor Finishing Machines Rated More Than 150 Volts If the machine is provided with an attachment plug as shown in Sketch D, it is intended for use on a nominal 240 volt circuit. No adapter is available for this plug.



# POUR USAGE COMMERCIAL SEULEMENT MODE D'EMPLOI SECURITAIRE

Lorsque l'on utilise un appareil électrique, des précautions de base doivent toujours être suivies telles que:

# BIEN LIRE LE MODES D'EMPLOI AVANT USAGE

**AVERTISSEMENT** - Pour réduire les risques de feu, choc électrique ou blessure:

• Ne pas quitter l'appareil lorsque la prise de courant est branchée. Débrancher de la sortie électrique lorsque la machine n'est pas en usage ou pour en faire le service.

**AVERTISSEMENT** - Pour réduire le risque de choc électrique - Ne pas exposer à la pluie - Entreposer à l'intérieur.

- Ne pas permettre l'usage comme jouet. Etre très prudent lorsque l'appareil est utilisé en présence d 'enfants.
- Utiliser tel que prescrit dans le livre d'opération et seulement avec les attachements recommendés par le manufacturier.
- Ne pas s'en servir avec corde ou prise de courant endommangée. Si l'appareil ne fonctionne pas ou a été échappé, endommagé, entreposé à l'extérieur ou déposé dans l'eau, l'appareil devrait être envoyé à un département de service pour inspection.
- Ne pas tirer ou porter par le câble ou se servir du câble comme poignée. Ne pas fermer de portes sur le câble ou tirer le câble près d'objets pointus. Ne pas conduire l'appareil en écrasant le câble et soyez certain de protéger le câble entre toutes surfaces de chauffage.
- Ne pas débrancher en se servant du câble. Pour débrancher tirer sur la prise et non sur le câble.
- Ne pas manipuler la prise ou l'appareil avec les mains mouillées.
- Ne placer aucun objet dans la sortie et ne pas s'en servir si la sortie est obstruée. Eliminer toute poussière, maillon, cheveux ou quoique ce soit qui pourrait réduire le mouvement d'air.
- N'exposer aucun cheveux, vêtement, doigts ou autres aux ouvertures de l'appareil.
- Ne rien ramasser de ce qui brûle ou de fumée tels que cigarettes, allumettes ou cendres en feu.
- Ne pas employer sans filtre de poussière ou autre en position.
- Fermer tous les contrôles après utilisation.
- Soyez très prudent lors du nettoyage d'escaliers.
- Ne pas ramasser de liquide inflammable ou combustible tel que gazoline et ne pas utiliser dans les endroits ou ces derniers pourraient être présent.
- Brancher dans une prise avec une prise de terre seulement. Voir références pour prise de terre.

### CONSERVEZ CES RECOMMANDATIONS DE MODE D'EMPLOI

# INSPECTION

Déballer soigneusement en constatant s'il y, a lieu tout dommage apparent. Chacune des pièces d'épuipement est entièrement inspectée à l'usine et tout dommage de transit est la responsabilité de la compagnie de transport qui devrait être prévenue immediatement.

# AVERTISSEMENT

- S.V.P. lire le manuel d'instruction avant d'opérer cette pièce d'équipement.
- Pour réduire le risque d'incendie, se serviir de ces appareils uniquement pour usage commercial et avec les produits construits spécifiquement pour usage avec ces appareils.
- Les moteurs électriques peuvent être la cause d'explosion si ils sont utilisés près de materiaux ou de vapeurs explosives. Ne pas opérer près de materiaux inflammables tels que solvent, essence, poussière de grain etc.

### ELECTRICITE - 115 Volt, Modèles C840115

Ces appareils sont congus pour opérer sur un circuit standard de 15 amp. 120 volt, 60 hz, circuit AC. Tout voltage en bas de 105 volts AC ou au delà de 125 volts AC pourrait occasionner des dommages au moteur.

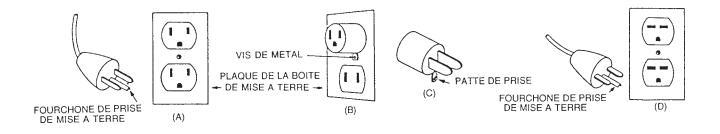
### ELECTRICITE - 240 Volt, Modèles C840240

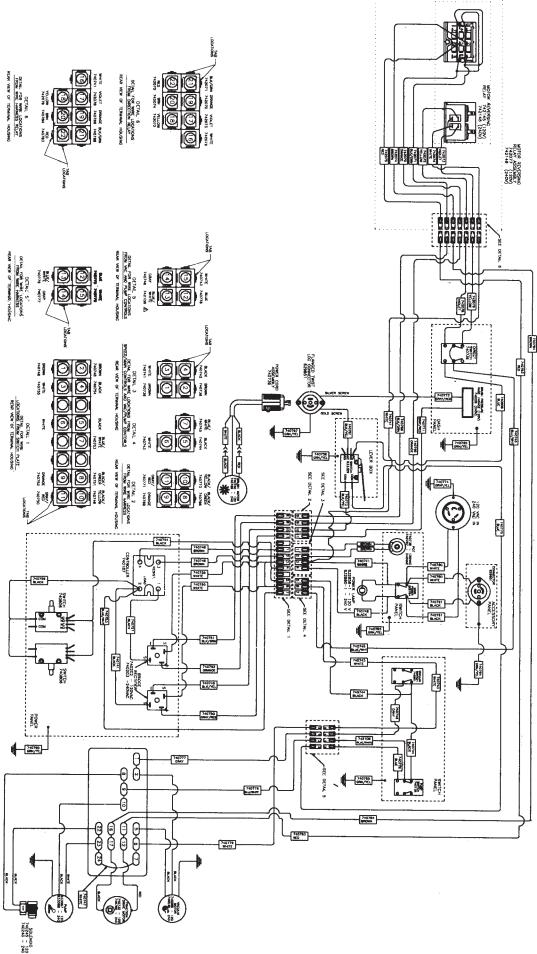
Ces appareils sont congus pour opérer sur un circuit standard AC de 16 amp., fusible type L 230 volt, 50 hz. Tout voltage en bas de 200 volts AC ou au delà de 250 volts AC pourrait occasionner des dommages au moteur.

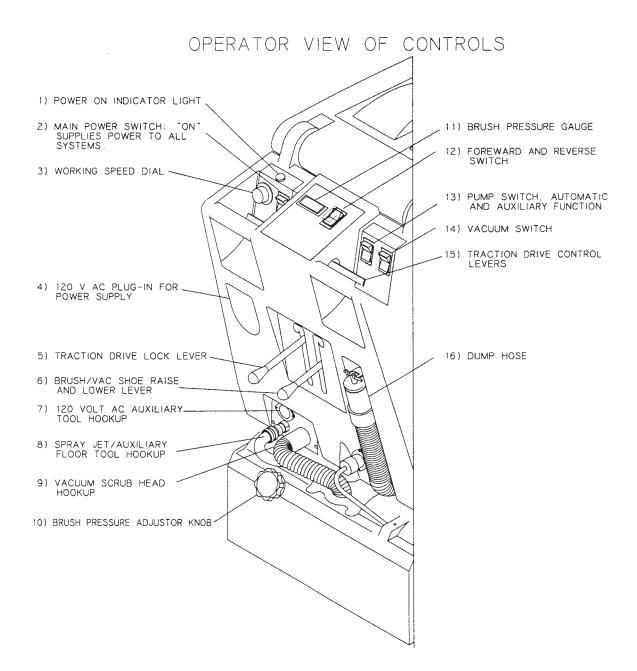
# **INSTRUCTIONS POUR PRISE DE TERRE**

- Ces appareils doivent posséder une prise de miss à terre pour protéger l'opérateur contre les chocs électriques. Cet appareil est muni d'une corde électrique à trois fils et d'un receptacle à trois fourchons et prise de mise à terre pour s'accorder dans un receptacle avec prise de mise à terre réciproque. Le fil conducteur vert (ou vert et jaune) de la corde électrique est le fil designé comme prise de mise à terra. Ne jamais relier ce fil à un fil autre que celui de prise de mise à terre.
- Appareils estimés à moins de 150 volts Si ces appareils offrent une prise de courant tel que dans le croquis A, ils sont destinés pour utilisation avec un circuit de 120 volts. Si un receptacle avec prise de mise à terre n'est pas disponible tel que montré au croquis A, un adapteur tel que vu au croquis C est disponible et devrait être installé tel que montré au croquis B si la boite électrique est munie d'une prise de mise à terre. Assurez-`vous de bien relier la patte de prise avec la vis.
- Appareils destinés à plus de 150 volts Si ces appareils offrent une prise de courant tel que demontré au croquis D, ils doivent être utilisés avec un circuit de 240 volts. Aucun adapteur n'est disponible pour cette prise.

ADAPTEUR (Non requis au Canada)





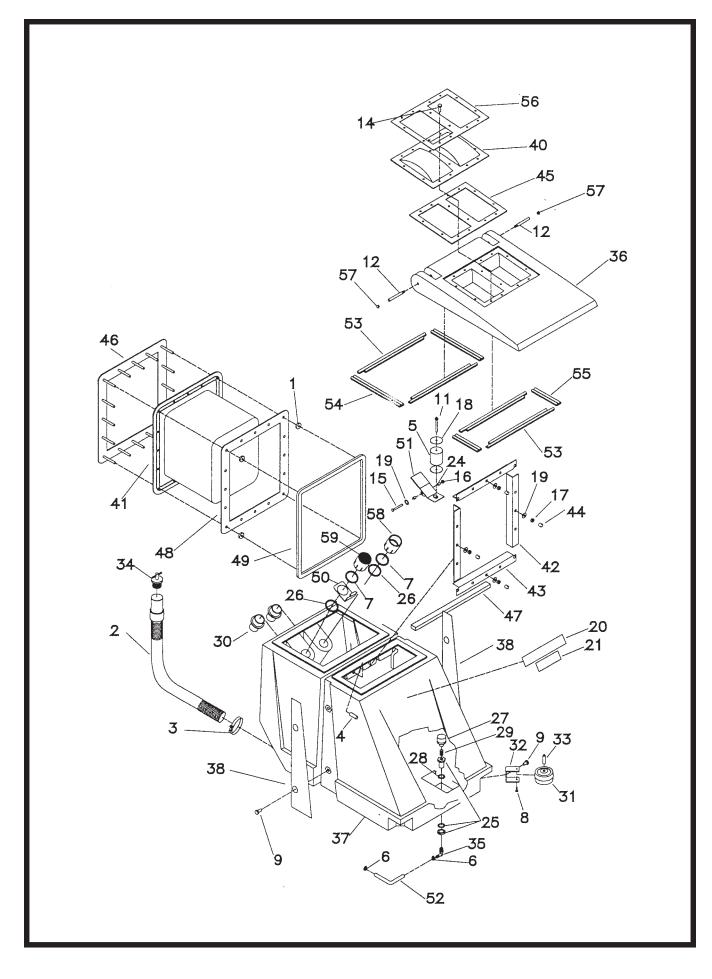


### **OPERATING INSTRUCTIONS**

- 1. 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 inline solution filter. This can reduce or stop water flow to the pump and spray jets.
- 2. Connect power supply cord to grounded wall outlet, Item #4.
- 3. Engage traction drive system, Item #5
- 4. Turn on main power switch, Item #2.
- 5. Lower scrub head assembly, Item #6.
- 6. Turn on pump switch to automatic, Item #13.
- 7. Turn on vacuum, Item #14.
- 8. Set forward/reverse switch to forward, Item #12.
- 9. Engage traction drive control levers, Item #15.
- 10. Adjust forward speed #3.
- 11. Brush pressure can be adjusted + or by knob, Item #10, and viewing gauge, Item #11, in green zone.

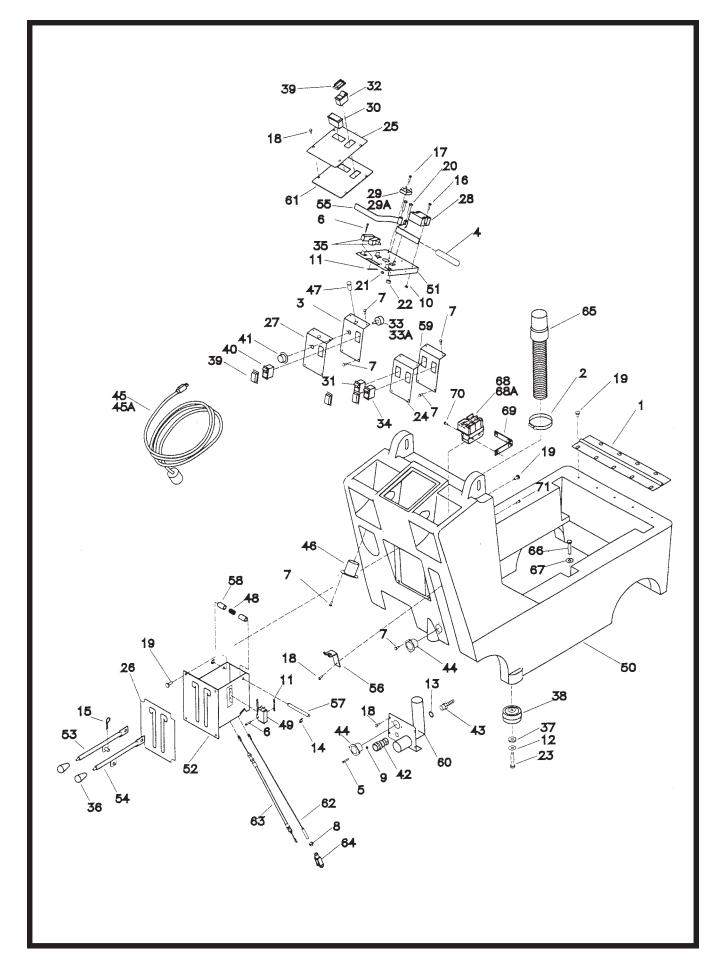
### **Accessory Attachments:**

- 1. Turn master switch off.
- 2. Disconnect vac hose, Figure 1, Item #9 and attach vacuum hose from remote tool.
- 3. Disconnect solution hose, Figure 1, Item #8 and install remote tool solution hose to quick disconnect turn pump solution switch, Figure 1, Item #13 to auxiliary.
- 4. If electric power head is used, attach power cable to Item #7, Figure 1 electrical outlet.
- 5. Turn on main power switch.
- 6. Turn on switch #14 to activate vacuum motor.



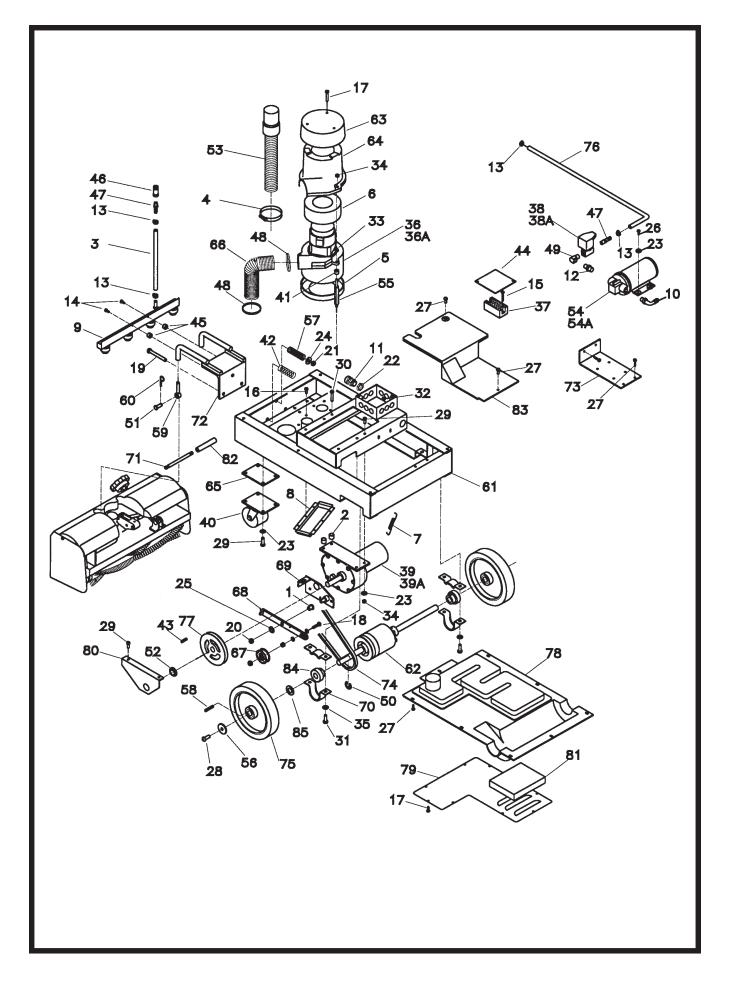
### **PARTS LIST**

Item	Part No.	Qty.	Description
Item 1 2 3 4 5 6 7 8 9 11 2 14 15 16 17 18 19 20 21 22 3 4 5 6 7 8 9 11 22 3 4 5 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 5 1 6 7 8 9 1 1 2 1 4 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 7 8 9 1 1 2 1 4 1 5 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	130029 260202 260203 420013 430089 450076 450081 710353 710985 712092 712107 712537 712567 712667 712667 712660 712759 712767 715060 715091 715524 715525 762384 828945 828970 828974 828975 828981 831812 832896 832949 833254 833316 832949 833254 833316 833325 840001 840002 840113 840051 840055 840059 840061	<b>Qty.</b> 4 1 1 1 2 2 6 1 2 4 1 1 1 2 2 6 1 2 4 1 1 1 2 2 2 2 1 1 1 2 2 6 1 1 1 2 2 6 1 1 1 2 2 6 1 1 1 2 2 6 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1	Grommet .75 x .31 x .25 Hose Assembly 260B New Style Hose Clamp 102120 Murray Tube 1/2 x 3 Float 17B Crimp Clamp SS 185R WSR-SS 1.908 x 2.41 x. 03 SCR-MC 10-32 x.37 ST PL SCR-SC 3/8-16 x .62 SCR-Nylon 1/4 20 x 2.5 SCR-Shoulder 1/4 - 20 x 2.87 SCR-MC 10 - 24 x .75 SS SCR-MC 1/4 - 20 x 2.00 SS Nut-Hex 1/4 - 20 S Nyloc Nut-Hex 5/16-18 SS WSR-Flat .31 x .137 x .06 SS WSR-Flat .406 x .75 SS Decal Diecut "Minuteman" Decal Diecut Minuteman ACS Decal Side Cover L Decal Side Cover R Bushing SS .277 x .375 x .37 Bulkhead Fitting 1/4 x 3/4 WSR-Neop 1.87 x 2.4 x .125 Strainer WSR-Neop .75 x 1.5 x .09 Brass Nipple 1/4 Adapter 1.5 MPT x 1.5 HB AB Guide Wheel ACS II Bracket Bumper Bumper Wheel Axle Drain Plug Elbow PLS 1/4 MPT x 3/8 BARB Tank Lid, ACS 20 Solution/Recovery Tank ACS 20 Solution/Recovery Tank ACS 20 Side Panel Dome Air/Water Bladder Bag ACS .20" Angle, Bladder Side Angle, Bladder Side Angle, Bladder Side Angle, Bladder Side Angle, Bladder Top/Bottom Cap - Thread Cover
34	833316	1	Drain Plug
35	833325	1	Elbow PLS 1/4 MPT x 3/8 BARB
36	840001	1	Tank Lid, ACS 20
37	840002	1	Solution/Recovery Tank ACS 20
35	833325	1	Elbow PLS 1/4 MPT x 3/8 BARB
36	840001	1	Tank Lid, ACS 20
37	840002	1	Solution/Recovery Tank ACS 20
38	840113	2	Side Panel
42 43 44 45	840054 840055 840059	2 2 16	Bladder Bag ACS 20" Angle, Bladder Side Angle, Bladder Top/Bottom Cap - Thread Cover
47 48 49 50	840063 840069 840070 840071 840074	1 1 1 1	Frame Bladder Mount Pocket Gasket ACS Washer Plate Assembly Gasket Solution/Recovery ACS 20 Valve Pivot Bracket
51	840075	1	Float Valve ACS 20"
52	840082	1	Hose 3/8 ID x 24.00
53	840084	4	Gasket Lid Front/Back
54	840085	2	Gasket Lid Long
55	840086	2	Gasket Lid Short
56	840087	1	Cover Plate/Dome
57	840095	2	Plug Dome - Heyco .312
58	840103	1	Coupling 1 1/2" PVC
59	840104	1	Filter Assembly/Vac Motor



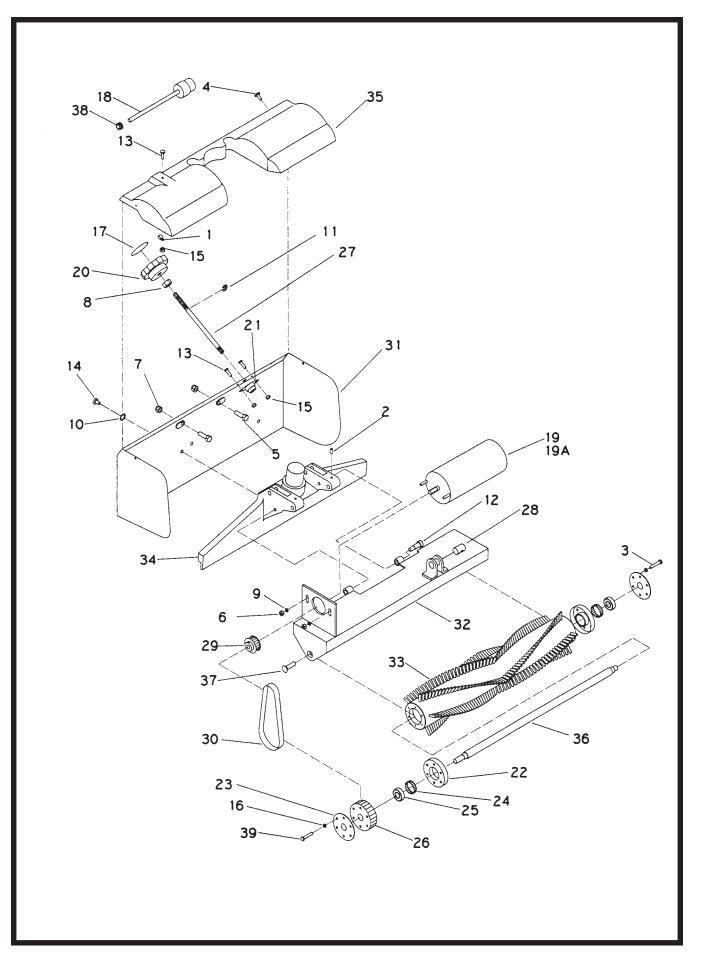
# PARTS LIST

Description	Knob Oval Tapered	Bushing .37 x .62 x .19	Wheel, 2.5 D x 1.28 W x .38 ID	Silicone Boot/Carling SW	Switch Rocker	Knob Speed Control	BH2-60 Female Coupler	3/8 BARB x 1/4 MPT	Flanged Twst Loc FM Midget	Cord Assembly 14/3 75'	Cord Assembly, International	Flange Male Recpt15 A 125	Indicator Light 115V Assembly	Indicator Light 240V Assembly	Spring .62 x .75 x 1.75	Actuator Switch	Base Tank ACS 20	Plate Lever Switch	Lever Control Box	Lever Bar Assembly Belt Tension	Lever Bar Assembly Vac Shoe	Lever - Switch	Hose Clip	Lever Pivot Pin	Bushing, Lever Box	Plate, Switch	Auxiliary Plate Assembly	Dash Pannel	Cable Lift ACS	Cable Tension ACS	Yoke ACS	Hose Grey, Water	SCR-MC 1/4-20 x 1.25 SS	WSR-Flat .25 x 1.50 SS	Relay, Motor Reversing 120V	Relay, Motor Reversing 240V	Bracket, Relay	SCR-MC 10-24 x .50	SCR-MC 10-24 x .75
Qty	N	2	0	4	<del>.                                    </del>	-	-	-	2	-	-			-				۰.		<b></b>	*	0			2			-		-	<del>.    </del>	-	9	9	<b></b>	<b></b>	-	2	N
Part No.	760592	762295	762331	802657	809754	809874	828370	828952	829851	830292	740477	830540	832859-1	832860-1	833102	833329	840005	840013	840014	840022	840023	840024	840027	840039	840040	840057	840079	840080	840091	840092	840093	840097	712566	712761	742145	742146	840108	712811	712813
ltem	36	37	38	39	40	41	42	43	44	45	45A	46	47	47A	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	68A	69	70	71
Description	Hinge 15"	Hose Clamp 102120 Murray	Speed Control Bracket 260B	Handle Grip 260 TD	SCR-MC 6-32 x .50 ST PL	SCR-MC 6-32 x 1.00 ST PL	SCR-Hi/Lo #10 x 5/8 PL	Nut-Hex 5/16-24 ST PL		Nut-Nyloc 8-32	Nut-Tinnerman 6-32	WSR-Wave .37 x .68 x .08	WSR-Flat 1/2 BR	Retaining Ring-E Ext	Cotter Pin-Hair #13	SCR-SC 8-32 x .62 SS	SCR-MC 10-24 x .75 SS	SCR-MC 10-24 x .37 SS TH	SCR-MCH 1/4-20 x .50 SS Nylon	SCR-MC 1/4-20 x 1.25 SS			Nut-Hex 1/4-20 SS	WSR-Flat .31 x 1.37 x .06 SS	BLT-HH 3/8/16 x 2 1/2 #5	Decal Vac, Pump	Decal Dash ACS 20	Decal Track, Brush Lift	Decal Speed Control ACS	Controller 2 Speed 115/230V	Rect. Bridge 50A 600V IMP	Rect. Bridge 50A 1000V	Gauge BR Pressure 0-1.5	Switch ACS Pump	Switch Fwd/Rev/Pump ACS	Pot Assembly 250 K	Pot Assembly ACS 240 Vac	Switch TIGL51-6S-WH-NBL	Switch Snap Act 20A1HP
Qty	<del></del>	-	-	2	2	9	12		2	2	e	2		0	2	2	9	10	13	9	2	2	2	9	2		-	-		-	2	N		•	<b>*</b>	-	-	-	N
Part No.	260087	260203	260255	260291	710204	710307	711160	711322	711371	711372	711430	711523	711578	711717	711808	712516	712537	712540	712560	712566	712569	712638	712665	712759	713048	715621	715622	715623	715626	740187	740202	740203	740229	740736	740736	740738	740787	740801	740806
ltem	-	0	ო	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	66	20	21	22	67	23	24	25	26	27	28	29	29A	30	31	32	33	33A	34	35



Parts List

Description	Key, .187 sq. x .78	Cover Box (741012)	Bushing	BH2-61 Male Coupler	3/8 Barb x ¼ MPT	Crimp Clamp 560R	Fitting Brass 90 ¼ MPT	E-Ring .75	Clevis Pin 3/8 x 1.63	Flange, Bushing Machined	Hose, Vac Tank	Pump 100 PSI 115V	Pump 100 PSI 230V	Threaded Spacer PLT Zinc	WSR-Flat .40 x 1.50 x .12	Die Spring	Key 3/16 sq. x 1 ½	Eye Bolt 3/8-16 x 2 5/8	Hairpin Cotter 3/8	Frame Weldment ACS 20	Differential, ACS Keyed	Vac Motor Cover Top	Vac Motor Cover Bottom	Washer Plate	Hose Vac Motor Output	Pulley, Idler	Tension Arm Assembly	Tension Plate Assembly	Stamped Steel Pillow Block	Pin, Vac Shoe Lift	Brush Mount Assembly	Bracket, Pump Motor	Belt, Drive	Wheel 8 x 1.5 x .75	Hose 3/8 ID x 31.0	Pulley ACS Drive	Baffle Exhaust ACS	Cover Exhaust Baffle	Brace Shaft Bushing	Filter Exhaust Baffle	Hose Vac Shoe Spacer	Cover, Drive Motor	Bearing .75 ID w/Collar	WSR-Flat .75 x 1.37 x .08	
Qty.	<del>, -</del>		~		2	2	-	2	2			-		ო	2		2	2	0	-				N	<del></del>	<del></del>	-		2	<del>.</del>	-	•		C)	-	-	-	<del>.                                    </del>	-	-	-	-	2		I
Part No.	762375	805634	809880	828368	828952	829067	831306	809148	831965	832554MCH	832790	833067	833068	833265PLT	809226	833302	361233	833341-1	833374	840006	840115	840011	840012	840018	840042	840044	840046	840048	840049	840053	840060	840064	840066	840116	840083	840088	840089	840090	840094	840096	840098	840105	881059	711512	  -  -
Item	43	44	45	46	47	48	49	50	51	52	53	54	54A	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	}
Description	Oilite Flange Bushing	Spacer Lift Arm		Hose Clamp	Moulded Vac Motor Gasket	Ring. Foam	Return Spring	Air Manifold	Sprav Tube Assembly 4 Jet	Elbow PLT 3/8 MPT x 3/8 Barb	Hevco Bushing Liguid Tight	Fitting Brass 1/4 MPT x 1/4 MPT	Crimp Clamp SS 185R	SCR-MC 10-32 x .875 SS	SCR-MC 6-32 x 1.00 ST PL	SCR-ST-B 10 x .37 NI	SCB-Hi/l o #10 x 5/8 PI	BIT-HH 14-20 x 1 25 STPI	BI T-HH 3/8-16 x 3.5 STPI	Nrit-Nvioc 3/8-16 1/2 Nrit	Nut-Nvioc 3/8-16	Nut-Pine	WSB-Flat 1/2 ID SS	WSR-Flat 406 × 812 × 062		SCR-MC 10-24 × 75 SS	SCB-MC 10-24 x .37 SS TH	SCR-SC 3/8-16 × 1.00 ST PL	BIT-HH 1/4-20 x 75 SS	SCR-MC 1/25 SS	BLT-HH 5/16-18 x .75 SS	Nut-Hex 6-32 SS	Nut-Hex 1/4-20 SS	Nut-Hex 1/4-20 SS Nyloc	WSR-Flat .406 x .75 SS	Vac Motor 120V	Vac Motor 240V	Terminal Block 10471	Water Solenoid 115V	Water Solenoid 240V	Gear Motor 120V AC	Gear Motor 240V AC			pusining, court × court × court Spring, Compression
Qty.	**	- 0	] +-		·	· .				•	- m	) <del>,</del>	4	· ~	10	I CC	ο <del>Γ</del>	) <del>.</del>	- m	) <del>-</del>	- r	ה כ	γ	<u></u> 2 (c	۰ <i>د</i>	14	- 6	10	1 0	10	14	2	ო	თ	4	<b></b>	. <del>.</del>	·	·	· -	·	- +-	- c	10	n a
Part No.	260066	260141	260182	260203	290017	380064	430051	450004	450023	450040	450050	450059	450076	712545	710307	711124	711160	711210	711280	711275	010117	711400	711504	711515	719319	710537	712540	710986	712562	712566	712575	712605	712665	712667	712767	740089	740230	740189	740245	740240	740732	740786	760251	0.2007	762339
ltem	**	- ົ	10	24	- LC	о сс	~ ~	. œ	σ	, €	) <del>-</del>		1 (r)	14	- ư	<u>, 4</u>	2	- α	<u>o</u> q	6-00	0 4 0	- c	4 C 7 C	200	1 C	200	07 07	280	0100	200	) m	32	33	34	35	96	364	37	. a	384	500			5 T	41



### PARTS LIST

Item	Part No.	Qty	Description
1	250039	1	Clamp Plastic 5/16 3305
2	711018	2	SCR-SK 10-32 x .37
3	711126	6	SCR-ST-B 10 x .75
4	711160	5	SCR-Hi/Lo #10 x 5/8 PL
5	711231	2 2 2	BLT-HH 5/16 - 18 x 1.25
6	711350	2	Nut-Nyloc 10-32
7	711353		Nut-Acorn 5/16-18 ST PL
8	711391	1	Nut-Hex Jam 3/8-16 ST PL
9	711504	2	WSR-Flat 1/4 ID SS
10	711554	10	WSR-Internal Lock 1/4 ID
11	711717	1	Retaining Ring - E Ext .37
12	712081	2	BLT-SDR 5/16 /18 x .75 x .375
13	712536	3	SCR-MC 10-24 x .62 SS
14	712560	10	SCR-MCH 1/4-20 x .50 SS Nyloc
15	712638	3	Nut-Hex 10/24 SS Nyloc
16	712757	12	WSR-Helical #10 SS
17	715090	1 1	Decal Brush Pressure ACS
18 19	740739	1	Power Cord ACS Brush
19 19A	740740 740785	1	Motor Brush ACS 120 Vac Motor Brush ACS 240 Vac
20	760034	1	Knob, Adj 3/8 x 16 Thread
21	760034	1	Bearing, Flanged Mounted
22	827894	2	Cup Bearing
23	827896		Cover Bearing
24	828145	2 2	Ring Retaining
25	828588	2	Bearing 747
26	832903	1	BR Pulley 3-4 OGR 5MM
27	833281	1	Threaded Rod Adj SS
28	833342	1	Shaft Pivot SS
29	833357	1	Pulley Motor 20 Tooth 5MM
30	833376	1	Belt HTD 375-5M-09
31	840007	1	Vac Shoe Plate ACS 20"
32	840019	1	Brush Bracket ACS 20"
33	840052	1	Brush ACS 20
34	840062	1	Vac Shoe 20" ACS
35	840065	1	Cover-Brush Splash
36	840081	1	Axle ACS 20"
37	710923	2	SCR-SC 5/16-18 x .62 ST PL
38	700287	1	Grommet
39	712066	6	SCR-ST-AB PH 10 x 1.25 PL

### TROUBLE SHOOTING GUIDE

Use this guide to pinpoint problem areas that may arise with use of your ACS machine. **CAUTION!** Unplug supply cord and disconnect batteries before servicing machine components.

### SOLUTION SYSTEM

- I. No water dispensed from spray jets.
  - A. The hose connection at the pump for the spray tube may not be tight. Disconnect, reconnect the fitting so they snap together securely.
  - B. The solution pump diaphragm may be damaged. Inspect by removing the pump from the pump and inspect the diaphragm for cracks. Replace if required.
- II. Spray intermittent or streaked.
  - A. Solution hoses may be pinched or kinked. Replace kinked hoses if found.
  - B. The filter strainer in the solution tank may be clogged. Clean the stainer thoroughly.
  - C. The spray jets may be clogged. Remove the end plug from the spray tube and flush by turning the pump on. Remove the spray jets from the tube and clean as required. Do not clean out the hole in the jet with a pin or wire. This may cause damage to the jet causing permanent streaking.

### SOLUTION RECOVERY SYSTEM

- I. Solution recovery is reduced.
  - A. Vacuum filter may be clogged. First check filter in recovery tank. Clean if required.
  - B. Check vacuum hoses for secure fit over the vacuum fittings. Tighten clamps where used. Also check hoses for cracks, kinks or clogging.
  - C. Check the seals on the tank covers for damage. Replace if needed. Make sure cover closes freely without restrictions.
  - D. Make sure the dain hose on the back of the tank is sealed.
  - E. Check the vacuum slot on the scrub head for clogging. Clean out slot if required.
  - F. Vacuum motor brushes could be worn. Inspect and replace. If the motor has run through two sets of brushes, replace the motor.

### SOLUTION SYSTEM

- II. Pump motor does not run.
  - A. Check pressure switch for short circuit. By-pass the pressure switch by connecting the two black leads to the switch to one another. If the motor then runs, replace the pressure switch.
- III. Machine fails to run when handle switch is activated.
  - A. Speed control may be shorted out.
  - B. Speed control potentiometer may be defective.

### ELECTRICAL SYSTEM A.C.

- I. Vacuum motor does not start.
  - A. Inspect the micro switch lever inside the electrical enclosure to make sure it is functioning properly. As the scrub head is lowered the lever should activate the switch. Bend the switch lever to adjust function if required.
  - B. Check motor carbon brush.
  - C. Check plugs on power cord.

For all the above make sure all the electrical connections are secure. Make sure the cord to the wall outlet is secure.

### 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

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

(905) 673-3222 FAX (905) 673-5161 988382 Printed in U.S.A.