



POWER CLEAN 800

CARPET EXTRACTOR

Item Code 19380 Edition 11 02 14 Photo updated on 2014-11

HOW TO USE THIS MANUAL

This manual contains the following sections:

- HOW TO USE THIS MANUAL
- SAFETY
- OPERATIONS
- MAINTENANCE
- PARTS LIST

The HOW TO USE THIS MANUAL section will tell you how to find important information for ordering correct repair parts.

Parts may be ordered from authorized dealers. When placing an order for parts, the machine model and machine serial number are important. Refer to the MACHINE DATA box which is filled out during the installation of your machine. The MACHINE DATA box is located on the inside of the front cover of this manual.

MODEL
DATE OF PURCHASE
SERIAL NUMBER
SALES REPRESENTATIVE #
DEALER NAME
OPERATIONS GUIDE NUMBER
PUBLISHED

The model and serial number of your machine is on the bottom back-end of the machine.

The SAFETY section contains important information regarding hazard or unsafe practices of the machine. Levels of hazards is identified that could result in product or personal injury, or severe injury resulting in death.

The OPERATIONS section is to familiarize the operator with the operation and function of the machine.

The MAINTENANCE section contains preventive maintenance to keep the machine and its components in good working condition.

The PARTS LIST section contains assembled parts illustrations and corresponding parts list. The parts lists include a number of columns of information:

- **REF** column refers to the reference
- number on the parts illustration.
 PART NO. column lists the part number for the part.
- QTY column lists the quantity of the part used in that area of the

machine.

- DESCRIPTION column is a brief description of the part.
- SERIAL NO. FROM column indicates the first machine the part number is applicable to. When the machine design has changed, this column will indicate serial number of applicable machine. The main illustration shows the most current design of the machine. The boxed illustrations show older designs. If column has an asterisk (*), call manufacturer for serial number.
- **NOTES** column for information not noted by the other columns.

NOTE: If a service or option kit is installed on your machine, be sure to keep the KIT INSTRUCTIONS which came with the kit. It contains replacement parts numbers needed for ordering future parts.

MACHINE DATA LOG/OVERVIEW

MODEL
DATE OF PURCHASE
SERIAL NUMBER
SALES REPRESENTATIVE #
DEALER NAME
OPERATIONS GUIDE NUMBER
PUBLISHED

YOUR DEALER

Name:

Address:

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precaution must always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE.

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

Use only indoors. Do not use outdoors or expose to rain.

Use only as described in this manual. Use only manufacturer's recommended components and attachments.

If the machine is **not working properly**, has been dropped, damaged, left outdoors, or dropped into water, return it to an authorized service center.

Do not operate the machine with any openings blocked. Keep openings free of debris that may reduce airflow.

This machine is not suitable for picking up hazardous dust.

Machine can cause a fire when operating near flammable vapors or materials. Do not operate this machine near flammable fluids, dust or vapors.

This machine is suitable for commercial use, for example in hotels, schools, hospitals, factories, shops and offices for more than normal housekeeping purposes.

Maintenance and repairs must be done by qualified personnel.

During operation, attention shall be paid to other persons, especially children.

When leaving unattended, secure against unintentional movement.

The machine shall only be operated by instructed and authorized persons.

When leaving unattended, switch off or lock the main power switch to prevent unauthorized use.

Do not handle the plug or machine with wet hands.

Do not unplug machine by pulling on cord. To unplug, grasp the plug, <u>not</u> the cord.

Do not use with damaged cord or plug. Follow all instructions in this manual concerning grounding the machine.

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 pull/run machine over cord. Keep cord away from heated surfaces.

Connect to a **properly** grounded outlet. See Grounding Instructions.

SAVE THESE INSTRUCTIONS

HAZARD INTENSITY LEVEL

The following symbols are used throughout this guide as indicated in their descriptions:

HAZARD INTENSITY LEVEL

There are three levels of hazard intensity identified by signal words -**WARNING** and **CAUTION** and **FOR SAFETY.** The level of hazard intensity is determined by the following definitions:

! WARNING

WARNING - Hazards or unsafe practices which COULD result in severe personal injury or death.

! CAUTION

CAUTION - Hazards or unsafe practices which could result in minor personal injury or product or property damage.

FOR SAFETY: To Identify actions which must be followed for safe operation of equipment.

Report machine damage or faulty operation immediately. Do not use the machine if it is not in proper operating condition. Following is information that signals some potentially dangerous conditions to the operator or the equipment. Read this information carefully. Know when these conditions can exist. Locate all safety devices on the machine. Please take the necessary steps to train the machine operating personnel.

FOR SAFETY:

DO NOT OPERATE MACHINE: Unless Trained and Authorized. Unless Operation Guide is Read and understood. In Flammable or Explosive areas. In areas with possible falling objects.

WHEN SERVICING MACHINE:

Avoid moving parts. Do not wear loose clothing; jackets, shirts, or sleeves when working on the machine. Use manufacturer approved replacement parts.

THIS PRODUCT IS FOR COMMERCIAL USE ONLY.

ELECTRICAL:

In the USA this machine operates on a standard 15 amp 115V, 60 hz, A.C. power circuit . The amp, hertz, and voltage are listed on the data label found on each machine. Using voltages above or below those indicated on the data label will cause serious damage to the motors.

EXTENSION CORDS:

If an extension cord is used, the wire size must be at least one size larger than the power cord on the machine, and must be limited to 50 feet (15.5m) in length.

GROUNDING INSTRUCTIONS:

This appliance must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having equipment-grounding an conductor and grounding plug. The inserted plug must be into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

This appliance is for use on a nominal 120-volt circuit, and has a grounded plug that looks like the plug in "Fig. A". A temporary adaptor that looks like the adaptor in "Fig. C" may be used to

connect this plug to a 2-pole receptacle as shown in "Fig. B", if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet (Fig. A) be installed bv а qualified can The green colored rigid electrician. ear, lug, or wire extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by a metal screw.





Improper connection of the equipmentgrounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

TECHNICAL SPECIFICATIONS

Machine Data Log/Overview	2
Table of Contents	3

HOW TO USE THIS MANUAL

How to use this Manual	1-1
------------------------	-----

SAFETY

Important Safety Instructions	2-1
Hazard Intensity Level.	2-2
Grounding Instructions.	2-3

OPERATIONS

Technical Specifications	3-1
Controls/Components	3-2
Machine Operation.	
Filling Operations	
Operating Machine	3-6
Cleaning Procedures	3-8
Accessory Tool Usage	3-10

MAINTENANCE

Periodic Maintenance	4-1
Daily/Regular Maintenance	4-1
Vacuum Motor Replacement.	4-2
Solution Pump Replacement.	4-2
Belt Replacement.	4-3
Machine Troubleshooting	4-4
Wiring Diagram	4-5

GROUP PARTS LIST

Frame Group	5-1
Brush Group	5-3
Pump Group	5-5
Brush Group Type-2	5-3-2
Vacuum Shoe Group	5-7
Control Panel Group	5-9
Solution Tank Group	5-11
Recovery tank Group	5-13
Suggested Spare Parts/Notes	5-15
Warranty	5-16

TECHNICAL SPECIFICATIONS

POWER TYPE

ELECTRICAL: 115 V, 15 A, 60 HZ

ELECTRIC VACUUM MOTOR: (1) –3 stage, 1 hp, 99 cfm (2.80 cubic meters/min.) Waterlift –117" (297cm)

BRUSH: (1) 15" (38.1 cm.)

SOLUTION PUMP: 100 PSI, diaphragm style, internal bypass

SOLUTION CAPACITY: 8 gallons (30.3 ltr)

RECOVERY CAPACITY: 8 gallons (30.3 ltr)

BRUSH SPEED: 1000 rpm

GENERAL DIMENSIONS/WEIGHT

Vacuum shoe: 17" (43.18 cm) cast aluminum with spring loaded down pressure

WHEELS: (2) 10" dia. (25 cm) wheels by 2"

WEIGHT: 92 lbs. (42 kg)

LENGTH: 41" (104 cm)

HEIGHT: 34" (86.36 cm)

WIDTH: 17.5" (44.45 cm)

SOLUTION SPRAY: 2 quick change jets.

POWER CABLE: 50' (12.7 m) (14 gauge)



CONTROLS/COMPONENT LOCATIONS





- **1.** Main Handle. Used to pull and maneuver machine.
- 2. Electrical Cord.
- **3.** Pump Switch. Turns on pump and enables spray.
- 4. Brush/Spray Switch. Turns on brush motor and activates electrovalve to dispense solution to floor through jets. Intermittent, off, and continuous settings.
- 5. Vacuum Motor Switch. Turns on vacuum motor.
- 6. Brush Motor Circuit Breaker. 6 amp. Breaker protecting brush motor.
- 7. Vacuum Motor Circuit Breaker. 15 amp. Breaker protecting vacuum motor.
- 8. Recovery Dump Hose. Facilitates draining dirty cleaning solution.
- **9. Solution Dump Hose.** Facilitates draining excess cleaning solution from solution tank.

CONTROLS/COMPONENT LOCATIONS

- 1. Solution Accessory Tool Hookup. Used for various auxiliary cleaning tools.
- 2. Vacuum Hose Door. Used to connect various auxiliary 1 ½ inch cleaning tool vacuum hoses.
- **3.** Brush Height Adjustment. Used to regulate brush height from storage position to various carpet heights.
- **4. Recovery Tank.** Used to collect dirty cleaning solution.
- 5. Solution Tank. Used to hold cleaning solution.
- 6. Recovery Tank Dome.
- 7. Vacuum Shoe.
- 8. Brush Housing.
- **9.** Front Lifting Handle.
- **10.** Cleaning Solution Filter.





CONTROLS/COMPONENT LOCATIONS

- 1. Solution Intake Cover
- 2. Vacuum Intake Cover
- 3. Float Shut-Off
- 4. Clean-Out Opening
- 5. Pour Spout
- 6. Lift Handle



OPERATIONS



OPERATIONS



OPERATIONS

Tip machine back by main handle to move to starting point.





CLEANING PROCEDURE

Use right side of machine for cleaning against walls.



use.

fan.

ACCESSORY TOOL USAGE



MAINTENANCE

PERIODIC MAINTENANCE

Twice a month, flush a white vinegar solution (One quart vinegar to two gallons of water) or anti-browning solution (mixed as directed) through the extractor. This will prevent build-up of alkaline residue in the system. If spray jets become clogged, remove the spray tips, wash them thoroughly, and blow-dry.

NOTE: Do not use pins, wire, etc. to clean nozzles as this could destroy spray pattern.

Periodically inspect all hoses, electrical cables and connections on your machine. Frayed or cracked hoses should be repaired or replaced to eliminate vacuum or solution pressure loss. If the cable insulation is broken or frayed, repair or replace it immediately. Don't take chances with electrical fire or shock.

DAILY / REGULAR MAINTENANCE

Before making any adjustments or repairs to the machine, disconnect the power cord from electrical source.

- 1. Empty unused cleaning solution from the solution tank.
- 2. Inspect and clean filter screen in solution tank.
- 3. Flush pumping system with 4 or 7 liters of clean, hot water.
- After each use, rinse tank with fresh water. Periodically inspect the recovery tank and decontaminate if necessary, using a Hospital Grade Virucide or a 1-10 bleach to water solution. Waste water should be disposed of properly.
- 5. Check for and remove any lint or debris around vac shoe.
- 6. Check spray jets for full spray pattern.
- 7. Remove lint and dirt build-up from brush and housing.

NOTE: Brush removal.

A. To remove brush, grab and pull brush out from end opposite drive

belt (operator's right). Remove other end from brush driver.

- B. To install brush, line up slots in brush core with pin in driver on drive belt side (operator's left) and push brush onto driver. Then snap bearing end (opposite end) of brush into retaining clip.
- Check cooling air screen (located on frame behind left wheel) for lint or debris.
- 9. Check float and shut-off screen and clean as necessary.
- 10. Once a month run 4 parts water and 1 part white vinegar solution through unit. This will prevent a build up of alkaline residue in system.

NOTE: Always store machine with brush in "Store" position.

MAINTENANCE



ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.

VACUUM MOTOR REPLACEMENT

- 1. Turn off all switches and unplug machine.
- 2. Remove recovery tank.
- 3. Remove the (2) screws that fasten the solution tank to the frame, and tilt tank back to expose the inside of the frame.
- 4. Locate the vacuum motor wires and disconnect at the connector. Close the solution tank.
- 5. Remove the (6) screws holding the vacuum motor cover (p/n 27809) to the solution tank.
- 6. Remove the vacuum motor.
- 7. Reverse process to install vacuum motor.

SOLUTION PUMP REPLACEMENT

- 1. Turn off all switches and unplug the machine.
- 2. Remove recovery tank.
- 3. Remove the (2) screws that fasten the solution tank to the frame, and tilt tank back to expose the inside of the frame.
- 4. Remove solution hoses from fittings in pump.
- 5. Remove the (2) screws that fasten the pump to the frame.
- 6. Reverse process to install pump.

Vac Motor Carbon Brushes Replacement End Cap Carbon Brushes 115V WARNING: The green ground wire must be attached for safe operation. See wiring diagram.

Note: When replacing carbon vac motor brushes loosen wire terminal **BEFORE** removing screws on bracket.

If armature commutator is not concentric, extremely pitted, or grooved the motor will need to be replaced or sent to a qualified service center to restore vac performance.



Periodically check the length of the carbon brushes. Replace both carbon brushes when either is less than 3/8" long.



MAINTENANCE



ONLY QUALIFIED MAINTENANCE PERSONNEL ARE TO PERFORM THE FOLLOWING REPAIRS.

BELT REPLACEMENT

1. Turn off all switches and unplug machine.

2. Remove recovery tank and brush.

3. Remove the (2) screws that fasten the solution tank to the frame, and tilt tank back to expose the inside of the frame.

4. Loosen the (4) screws that hold the brush motor in place and slide motor forward to release tension in belt.

5. Remove the (2) screws that fasten the vacuum shoe links (p/n 05016) to the brush housing.

6. Remove the (3) screws that fasten the side plate (p/n 62759) to the brush housing to remove belt.

NOTE: All components associated with driving the brush will come out with the side plate.

7. Reverse process to install belt.

TROUBLESHOOTING CHART

PROBLEM	CAUSE	SOLUTION	
	1. Is the cord plugged in.	1. Plug in cord.	
No Power, Nothing Runs	2. Circuit breaker tripped in building.	2. Reset breaker	
	3. Faulty switch.	3. Call for service.	
	4. Faulty power cord or pigtail.	4. Call for service.	
Vacuum Motor Will Not	1. Vacuum circuit breaker tripped.	1. Reset breaker	
Run	2. Faulty main vacuum switch.	2. Call for service.	
	3. Loose wiring.	3. Call for service.	
	4. Faulty vac motor.	4. Call for service.	
Vacuum Motor Runs But	1. Debris lodged in vac shoe.	1. Remove debris from vac shoe.	
Suction Is Poor	2. Dome gasket defective or missing.	2. Replace as necessary.	
	3. Dome is not seated properly.	3. Make sure dome is in proper place on	
	4. Recovery tank full / float ball stuck in the up	tank.	
	position.	4. Turn off vac motor. Drain and rinse	
		recovery tank.	
Poor Or No Water Flow	1. Main pump switch off.	1. Turn on.	
(Carpet Is Streaky)	2. Jets clogged or missing.	2. Clean using a vinegar /water solution or	
		replace.	
	3. Solution filter clogged.	3. Drain solution tank and clean solution	
		filter.	
	4. Faulty solenoid.	4. Call for service.	
	1. Brush switch off.	1. Turn on brush switch.	
Brush Does Not Spin	2. Brush circuit breaker tripped	2. Reset circuit breaker.	
	3. Brush belt broken.	3. Replace as necessary.	
	4. Faulty brush motor.	4. Call for service.	

WIRING DIAGRAM



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FRAME GROUP



FRAME PARTS LIST

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	3-70697	1	SCR, ¼-20 X 1.25 PPHMS SS		
2	3-34341	1	FRAME		
3	3-39528	1	HOSE ASM, 1.5 BLK VAC X 15.5		
4	3-41236	2	HUBCAP, 5/8" SHAFT		
5	3-41353	1	HARNESS, MAIN		
6	3-41354	1	HINGE, TANK TO FRAME		
7	3-53640	1	MOTOR ASM, BRUSH		
8	3-57030	2	NUT, 10-32 HEX NYLOCK		
9	3-57245	3	NUT, 1/4-20 HEX NYLOCK SS		
10	3-99809	2	FOAM TAPE, 1/8 THK X 3/4 1SDA		
11	3-62761	1	PLATE, BRUSH MTR CLAMP		
12	3-64099	1	PULLEY, 1.4 OD, 6GR, MICRO-V		
13	3-66282	6	PLUG, HOLE, .375" BLK		
14	3-66288	2	PLUG, 9/16 OD BLK NYLON		
15	3-70643	2	SCR, 1/4-20 X 3/8 PPHMS		
16	3-70066	2	SCR, 10-32 X 3/4 PPHMS		
17	3-50279	1	LABEL, GROUND SYMBOL		
18	3-87013	2	WASHER, 1/4 ID X 5/8 OD SS		
19	3-87025	2	WASHER, 1/4 LOCK EXT STAR SS		
20	3-87018	2	WASHER, #10 X 9/16 OD		
21	3-70074	2	SET SCR, 10-32 X 1/4 KCP		
22	3-73197	1	STRAIN RELIEF, 90 DEGREE		
23	3-57105	3	NUT, ¼-20 HEX W/ STAR WASHER		
24	3-89114	2	WHEEL, 1-5/16 X 9.625 DIA		
25	3-03107	1	AXLE, 5/8 X 17.06L		
26	3-99667	10"	HEAT SHRINK, 3/4 ID UL/CSA		
27	3-73943	1	SEAL, FRAME/TANK		
28	3-20035	1	CLAMP, 7/16 DIA NYLON UL		
29	3-20041	1	CLAMP, 2.0" WORM GEAR		
30	3-70271	2	SCR, ¼-20 X ½ HHCS PLTD		
31	3-70057	2	SCR, ¼-20 X 1 PPHMS SS		
32	3-66052	1	PIN, ROLL 1/8" X 1.0"L		

BRUSH GROUP



BRUSH PARTS LIST

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	3-03110	1	AXLE, ROLLER		
2	3-04084	1	ADAPTER, BRUSH BRG.		
3	3-09019	2	BEARING, 1.1250DX.500IDX.375		
4	3-11045	1	BELT, 180J6 MICRO-V		
5	3-12031	1	BRUSH, 15L X 3.38OD		
6	3-140343	1	BRKT, BRUSH PULLEY		
7	3-140351	1	BRKT, BRUSH HEIGHT		
8	3-34341	REF	FRAME		
9	3-36192	1	GUARD, THREAD		
10	3-41345	1	HOUSING, BRUSH 15"		
11	3-50998	1	LABEL, BRUSH HEIGHT		
12	3-51311	1	LINKAGE, ASM, BRUSH HEIGHT		
13	3-51312	1	LINKAGE ASM, ROLLER SUPPORT		
14	3-51314	2	LINK, ROLLER, FRONT		
15	3-51317	1	LEVER, HEIGHT ADJUSTMENT		
16	3-57030	4	NUT, 10-32 HEX NYLOCK		
17	3-57271	2	NUT, 3/8 DIA CAP, TYPE PUSH PLT		
18	3-62758	1	PLATE, BRUSH HOUSING RH		
19	3-62759	1	PLATE, BRUSH HOUSING LH		
20	3-62762	2	PLATE, AXLE RETAINER		
21	3-64098	1	PULLEY, 2.2 OD, 6GR, MICRO-V		
22	3-66192	1	PIN, ROLL 1/4 X 1.25L		
23	3-67411	1	ROLLER, 1.9 DIA X 10.5 LG		
24	3-70043	2	SCR, 10-32 X 5/8 PFHMS		
25	3-70088	6	SCR, 10-32 X 1/2 PPHMS SS DL		
26	3-70177	7	SCR, 10-32 X 1/2 FHMS SS		
27	3-70232	2	SCR, 10-32 X 3/8 FHMS SS		
28	3-70497	2	SCR, #10-24 X 1/2 SHCS		
29	3-87016	4	WASHER, #10 LOCK EXT STAR SS		
30	3-87018	6	WASHER, #10 X 9/16 OD		
31	3-70675	4	SCR, 1/4-20 X.5/8 THMS PLTD NP		
32	3-47383	1	BRUSH BEARING ASM.		
33	3-29208	1	DRIVER ASM, BRUSH		
34	3-27805	1	CLIP, BEARING		
35	3-29157	1	DRIVER, BRUSH		
36	3-12514	1	BRUSH ASM, 15 IN		
37	3-67094	1	RING, 1/2 EXT. SNAP		
38	3-66310	2	PIN, CLEVIS 1/4 X 1/2 PLTD		
39	3-80604	2	COTTER, 1/4" RING		
40	3-73966	1	SPACER, .81ID X 1.06OD, ALUM		
41	3-64102	1	PULLEY ASM, BRUSH		

BRUSH GROUP - TYPE 2



BRUSH PARTS LIST- TYPE 2

86000730 86227100 86000900 86001100 86001300 86001300 86004300 86004470 86004980 86005110 86005110 86005110 86005110 86005120	3-03110 3-04084 3-09019 3-11045 3-12514 3-140343 3-140351 3-34341 3-36192 3-41345 3-50998 3-51311 3-51312	1 1 1 1 1 REF 2 1 1 1	AXLE, ROLLER ADAPTER, BRUSH BRG. BEARING, 1.125ODX.500IDX.375 BELT, 180J6 MICRO-V BRUSH, 15L X 3.38OD BRKT, BRUSH PULLEY BRKT, BRUSH HEIGHT FRAME, CLP FAMILY GUARD, THREAD HOUSING, BRUSH 15" LABEL, BRUSH HEIGHT		
86000900 86001100 86001300 86001310 86003620 86004060 86004470 86003080 86005110 86005120	3-09019 3-11045 3-12514 3-140343 3-140351 3-34341 3-36192 3-41345 3-50998 3-51311 3-51312	2 1 1 1 REF 2 1 1 1	BEARING, 1.125ODX.500IDX.375 BELT, 180J6 MICRO-V BRUSH, 15L X 3.38OD BRKT, BRUSH PULLEY BRKT, BRUSH HEIGHT FRAME, CLP FAMILY GUARD, THREAD HOUSING, BRUSH 15" LABEL, BRUSH HEIGHT		
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86003620 86004060 86004470 86004980 86093080 86005110 86005120	3-34341 3-36192 3-41345 3-50998 3-51311 3-51312	REF 2 1 1 1	FRAME, CLP FAMILY GUARD, THREAD HOUSING, BRUSH 15" LABEL, BRUSH HEIGHT		
86004060 86004470 86004980 86093080 86005110 86005120	3-36192 3-41345 3-50998 3-51311 3-51312	2 1 1 1	GUARD, THREAD HOUSING, BRUSH 15" LABEL, BRUSH HEIGHT		
86004470 86004980 86093080 86005110 86005120	3-41345 3-50998 3-51311 3-51312	1 1 1	HOUSING, BRUSH 15" LABEL, BRUSH HEIGHT		
86004980 86093080 86005110 86005120	3-50998 3-51311 3-51312	1 1	LABEL, BRUSH HEIGHT		
86093080 86005110 86005120	3-51311 3-51312	1			
86005110 86005120	3-51312				1
86005120			LINKAGE, ASM, BRUSH HEIGHT		
	2 51244	1	LINKAGE ASM, ROLLER SUPPORT		
	3-51314	2	LINK, ROLLER, FRONT		
00000100	3-51317	1	LEVER, HEIGHT ADJUSTMENT		
86005640		4			
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	86005640	86005640 3-57030 86008580 3-57271 86249410 3-62758 86249420 3-62759 86005930 3-62762 86250680 3-64098 86006220 3-66192 86006590 3-67411 86006500 3-70043 86006500 3-70088 86006650 3-70177 86006650 3-70177 86006650 3-70497 86010640 3-87016 86010650 3-87018 86007030 3-70675 86230620 3-12524 86251710 3-67467 86003070 3-29157 86278130 3-70737 86272510 3-66310 86008650 3-80604 86008160 3-73966 86006330 3-64102 86003390 3-29208 86001140 3-12514 86227150 3-05158 86228890 3-09137 86028010 3-47383	86005640 3-57030 4 86008580 3-57271 2 86249410 3-62758 1 86249420 3-62759 1 86005930 3-62762 2 86250680 3-64098 1 86006220 3-66192 1 86006430 3-67411 1 86006510 3-70043 2 86006500 3-70088 8 86006650 3-70177 7 86006650 3-70497 2 86010640 3-87016 4 86010650 3-70497 2 86010650 3-70497 2 86010650 3-87018 6 86007030 3-70675 4 86230620 3-12524 1 86251710 3-67467 1 8603370 3-29157 1 86278130 3-70737 1 86278130 3-70737 1 86008650 3-80604 2 <td>86005640 3-57030 4 NUT, 10-32 HEX NYLOCK 86008580 3-57271 2 NUT, 3/8 DIA CAP, TYPE PUSH PLT 86249410 3-62758 1 PLATE, BRUSH HOUSING RH 86249420 3-62762 2 PLATE, BRUSH HOUSING LH 86005930 3-62762 2 PLATE, AXLE RETAINER 86250680 3-64098 1 PULLEY, 2.2 OD, 6GR, MICRO-V 8600620 3-66192 1 PIN, ROLL 1/4 X 1.25L 86006510 3-70043 2 SCR, 10-32 X 5/8 PFHMS 86006500 3-70043 2 SCR, 10-32 X 1/2 PHMS SS 86006650 3-70177 7 SCR, 10-32 X 3/8 FHMS 86006650 3-70177 7 SCR, 10-32 X 3/8 FHMS SS 86010640 3-87016 4 WASHER, #10 LOCK EXT STAR SS 86010650 3-87018 6 WASHER, #10 X 9/16 OD 8603070 3-27805 1 CLIP, BEARING 86003370 3-29157 1 BRUSH, 15 L X 3.38 OD G2 86272510 3-66310 2 PIN, C</td> <td>86005640 3-57030 4 NUT, 10-32 HEX NYLOCK 86008580 3-57271 2 NUT, 3/8 DIA CAP, TYPE PUSH PLT 86249410 3-62758 1 PLATE, BRUSH HOUSING RH 86249420 3-62759 1 PLATE, BRUSH HOUSING LH 86005930 3-62762 2 PLATE, AXLE RETAINER 86250680 3-64098 1 PULLEY, 2.2 OD, 6GR, MICRO-V 86006220 3-66192 1 PIN, ROLL 1/4 X 1.25L 86006500 3-67411 1 ROLLER, 1.9 DIA X 10.5 LG 86006500 3-70043 2 SCR, 10-32 X 5/8 PFHMS 86006650 3-70177 7 SCR, 10-32 X 1/2 PPHMS SS 86006650 3-70177 7 SCR, 10-32 X 3/8 FHMS SS 86010640 3-87016 4 WASHER, #10 LOCK EXT STAR SS 86010650 3-87018 6 WASHER, #10 LOCK EXT STAR SS 86010640 3-87016 4 WASHER, #10 LOCK EXT STAR SS 86010650 3-87017 1 RING, TOLERANCE 7/8 ID X 1/2 W 100000606</td>	86005640 3-57030 4 NUT, 10-32 HEX NYLOCK 86008580 3-57271 2 NUT, 3/8 DIA CAP, TYPE PUSH PLT 86249410 3-62758 1 PLATE, BRUSH HOUSING RH 86249420 3-62762 2 PLATE, BRUSH HOUSING LH 86005930 3-62762 2 PLATE, AXLE RETAINER 86250680 3-64098 1 PULLEY, 2.2 OD, 6GR, MICRO-V 8600620 3-66192 1 PIN, ROLL 1/4 X 1.25L 86006510 3-70043 2 SCR, 10-32 X 5/8 PFHMS 86006500 3-70043 2 SCR, 10-32 X 1/2 PHMS SS 86006650 3-70177 7 SCR, 10-32 X 3/8 FHMS 86006650 3-70177 7 SCR, 10-32 X 3/8 FHMS SS 86010640 3-87016 4 WASHER, #10 LOCK EXT STAR SS 86010650 3-87018 6 WASHER, #10 X 9/16 OD 8603070 3-27805 1 CLIP, BEARING 86003370 3-29157 1 BRUSH, 15 L X 3.38 OD G2 86272510 3-66310 2 PIN, C	86005640 3-57030 4 NUT, 10-32 HEX NYLOCK 86008580 3-57271 2 NUT, 3/8 DIA CAP, TYPE PUSH PLT 86249410 3-62758 1 PLATE, BRUSH HOUSING RH 86249420 3-62759 1 PLATE, BRUSH HOUSING LH 86005930 3-62762 2 PLATE, AXLE RETAINER 86250680 3-64098 1 PULLEY, 2.2 OD, 6GR, MICRO-V 86006220 3-66192 1 PIN, ROLL 1/4 X 1.25L 86006500 3-67411 1 ROLLER, 1.9 DIA X 10.5 LG 86006500 3-70043 2 SCR, 10-32 X 5/8 PFHMS 86006650 3-70177 7 SCR, 10-32 X 1/2 PPHMS SS 86006650 3-70177 7 SCR, 10-32 X 3/8 FHMS SS 86010640 3-87016 4 WASHER, #10 LOCK EXT STAR SS 86010650 3-87018 6 WASHER, #10 LOCK EXT STAR SS 86010640 3-87016 4 WASHER, #10 LOCK EXT STAR SS 86010650 3-87017 1 RING, TOLERANCE 7/8 ID X 1/2 W 100000606

PUMP GROUP



PUMP PARTS LIST

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	3-22072	1	COUPLING, 1/4 ANCHOR W/1" HEX		
2	3-22090	2	CONNECTOR, 1/8FPT X 1/4 TUBEQC		
3	3-31072	1	ELBOW, SWIVEL, 1/4MPTX1/4TUBE		
4	3-31074	1	ELBOW, SWIVEL,3/8MPTX3/8TUBEQC		
5	3-44067	2	JET BODY, MINI PROMAX BODY		
6	3-44073	2	JET, MINI PROMAX 9503		
7	3-57030	2	NUT, 10-32 HEX NYLOCK		
8	3-47306	1	PUMP ASM		
9	3-66288	2	PLUG, 9/16 OD BLK NYLON		
10	3-70386	2	SCR, 10-32 X 1.0 PPHMS		
11	3-70011	2	SCR, 1/4-20 X 5/8 HHCS SS		
12	3-34355	1	FITTING,1/4 TUBE,"Y", QC		
13	3-78419	1	TEE, 3/8 MPT X 3/8 TUBE, QC		
14	3-84160	1	VALVE ASM, SOLENOID CLP FAMILY		
15	3-87191	2	WASHER, 1/4"IDX1.0OD. FLAT SS		
16	3-87018	4	WASHER, #10 X 9/16 OD		
17	3-87192	2	WASHER, 7/16 X 3/4 X .19RUBBER		
18	3-56014	1	NIPPLE, 1/4 CLOSE		
19	3-56012	1	NIPPLE, 1/4 FPT QD		
20	3-31076	2	ELBOW, 1/4 MPT X 3/8 TUBE, QC		
21	3-70088	2	SCR, 10-32 X 1/2 PPHMS SS		
22	3-39591	1	HOSE, 3/8 NYLON X 29" YELLOW		
23	3-880278	1	WIRE, 22" GRN/18 76011 X 76011		
24	3-39529	1	HOSE, 3/8 URETHANE X 29"		
25	3-39530	1	HOSE, 3/8 NYLON X 6"		
26	3-39531	3	HOSE, 1/4 URETHANE X 6"		
27	3-73963	1	SCREEN, INTAKE		

VACUUM SHOE GROUP



VACUUM PARTS LIST

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	3-05016	4	ARM, VAC SHOE PARALLEL		
2	3-27674	1	COVER, ACCESSORY PORT		
3	3-57245	4	NUT, 1/4-20 HEX NYLOCK SS		
4	3-70351	2	SCR, 10-32 X 3/8 HHTR W/STAR		
5	3-70360	4	SCR, 1/4-20 X.75 PPHMS PHIL		
6	3-70390	4	SCR, 1/4-20 X 1 FHCS PLTD		
7	3-73958	8	SPACER, 3/80DX.058WX.2814,CRS		
8	3-85039	1	VAC SHOE, 15"		
9	3-73955	2	SPRING, EXT .38D X2.75L X.055W		
10	3-87013	4	WASHER, 1/4 ID X 5/8 OD SS		
11	3-87074	8	WASHER, WAVE 3/8ID X3/4D X.125		
12	3-35171	1	GASKET, ACCESSORY PORT		

CONTROL PANEL GROUP



CONTROL PANEL PARTS LIST

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	3-14020	1	TERMINAL BLOCK, 115V (3-4-3)		
2	3-14700	1	BREAKER, 15A 250VAC 50VDC		
3	3-14832	1	BREAKER, 6A VDE CIRCUIT		
4	3-14942	2	BOOT, 3/8 CIRCUIT BREAKER		
5	3-23679	1	CORD ASM, 14/3 X 22" YLW		
6	3-27872	1	COVER, PANEL		
7	3-35247	1	GASKET, PANEL		
8	3-41353	REF	HARNESS, MAIN		
9	3-57040	2	NUT, ½ NPT CONDUIT		
10	3-57104	3	NUT, 10-32 W/STAR WASHER PLTD		
11	3-57116	2	NUT, 6-32 W/STAR WASHER PLTD		
12	3-70235	2	SCR, 6-32 X 1.0 PH BLK NYLON		
13	3-70386	1	SCR, 10-32 X 1.0 PPHMS		
14	3-72126	1	SWITCH, DPDT 3-POSITION ROCKER		
15	3-72130	2	SWITCH, SPST 2-POSITION ROCKER		
16	3-73505	2	STRAIN RELIEF, 1/2 NPT TRUMPET		
17	3-87100	2	WASHER, 3/8 ID INT.LOCK THIN		
18	3-500226	3	LABEL, CIRCUIT BREAKER BRUSH		
19	3-500225	1	LABEL, CIRCUIT BREAKER VAC		
20	3-500154	1	LABEL, CONTROL PANEL		
21	3-87189	7	WASHER, .2 ID X .500 BLK SS		
22	3-70626	7	SCR, #10 X 3/4 PPHST HI-LO BLK		

SOLUTION TANK GROUP



SOLUTION PARTS LIST

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	3-20041	3	CLAMP, 2.0" WORM GEAR		
2	3-20042	1	CLAMP, 3/8 HOSE (D-SLOT)		
3	3-27809	1	COVER, VAC MOTOR		
4	3-27810	1	COVER, BELT		
5	3-31081	1	ELBOW, 3/8 MPT X 3/8 TUBE, PLASTIC		
6	3-35175	2	GASKET, TANK TO VAC COVER		
7	3-35231	2	GASKET, VAC COVER		
8	3-39526	1	HOSE,1/2 CLEAR X 12		
9	3-39527	1	HOSE, 1.5 BLK VAC X 3.0		
10	3-39528	REF	HOSE ASM, 1.5 BLK VAC X 15.5		
11	3-40027	1	HOSEBARB		
12	3-41348	1	HOUSING, VAC MOTOR		
13	3-53789	1	VAC MOTOR ASM		
14	3-70114	3	SCR, #10 X 3/4 PPHST TYPE B		
15	3-70088	2	SCR, 10-32 X 1/2 PPHMS SS		
16	3-75397	1	TANK, SOLUTION		
17	3-85037	1	VENT, COOLING AIR SMALL		
18	3-87018	11	WASHER, #10 X 9/16 OD		
19	3-73864	1	STRAINER, 3/8 IN. NPT 60 MESH		
20	3-87013	3	WASHER, 1/4 ID X 5/8 OD SS		
21	3-70085	3	SCR, 1/4-20 X 1/2 PPHMS SS DL		
22	3-20035	2	CLAMP, 7/16 DIA NYLON UL		
23	3-20092	1	CLAMP, 3.5" WORM GEAR		
24	3-67147	1	RING, 2" DIA SPLIT		
25	3-73169	1	STRAIN RELIEF, CORD HOOK		
26	3-35236	1	GASKET, TANK, L-F		
27	3-35237	1	GASKET, TANK, L-R		
28	3-35238	1	GASKET, TANK, RH		
29	3-70525	6	SCR, #10 X 1.0 PPHST TYPE B		



RECOVERY TANK PARTS LIST

REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	3-20002	1	CLAMP, 2.00 NYLON RATCHET		
2	3-20041	1	CLAMP, 2.0" WORM GEAR		
3	3-27670	1	CORD, DRAIN PLUG TRIDENT		
4	3-27816	2	COVER, REC. TANK		
5	3-28060	1	DOME		
6	3-34351	1	FLOAT SHUT-OFF		
7	3-35230	1	GASKET, DOME		
8	3-35232	2	GASKET, PORT COVER		
9	3-39353	1	HOSE, 1.5 X 12.0 DRAIN		
10	3-40019	1	HOSEBARB, 1.5 DOUBLE MCHD		
11	3-66227	1	PLUG, DRAIN HOSE		
12	3-70114	7	SCR, #10 X 3/4 PPHST TYPE B		
13	3-75396	1	TANK, RECOVERY		
14	3-140133	1	BRKT, RECOVERY HOSE MTG		
15	3-27417	1	CORD, 99807 1/8 X 12"		
16	3-500009	1	LABEL, WARNING		
17	3-28061	1	DOME ASM		

SUGGESTED SPARE PARTS

DESCRIPTION	PART NUMBER
BRUSH, 15L X 3.38OD	3-12031
BELT, 180J6 MICRO-V	3-11045
BEARING, 1.1250DX.500IDX.375	3-09019
JET BODY, MINI PROMAX BODY	3-44067
JET, MINI PROMAX 9503	3-44073
PUMP ASM	3-65183
VALVE ASM, SOLENOID CLP FAMILY	3-84160
GASKET, ACCESSORY PORT	3-35171
BREAKER, 15A 250VAC 50 VDC	3-14700
BREAKER, 6A VDE CIRCUIT	3-14832
SWITCH, SPST 2-POSITION ROCKER	3-72130
SWITCH, DPDT 3-POSITION ROCKER	3-72126
VAC MOTOR ASM	3-53789
STRAINER, 3/8 IN. NPT 60 MESH	3-73864
FLOAT, SHUT-OFF	3-34351
DOME ASM	3-28061
PLUG, DRAIN HOSE	3-66227

NOTES: