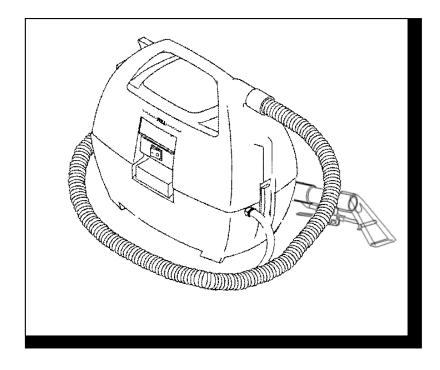
MINI-EXTRACTOR



Operating Instructions



MACHINE DATA LOG/OVERVIEW

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

YOUR DEALER
Name:
Address:
Phone Number:

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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 back underside of 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.
- PRV NO. reference number.
- 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.

NOTE: The number on the lower left corner of the front cover is the part number for this manual.

IMPORTANT SAFETY INSTRUCTIONS

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

READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE.



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.

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:

A WARNING

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

A 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.

GROUNDING INSTRUCTIONS

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.

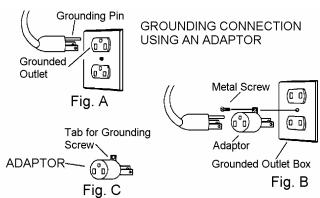
EXTENSION CORDS:

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 an equipment-grounding conductor and grounding plug. The plug must be inserted 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) can be installed by a qualified electrician. The green colored rigid ear, lug, or the like 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.



Note: Adaptors are not allowed in Canada.

▲ WARNING

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.

MACHINE OPERATIONS

SET UP AND OPERATION

- Upon removing your new mini-extractor from the box, loosen the latch at back end of the machine that secures the recovery tank to the solution tank. Remove the recovery tank from the solution tank.
- Pour clean, hot water to the indicated fill line of the solution tank. To avoid possible tank distortion, water temperature must not exceed 140 F (60C).
- Add a non-foaming cleaning solution concentrate, for use in hot water extractors at the proportions noted on the container (See list below), into solution tank.
- Place the recovery tank back onto the solution tank and refasten the latch.
- Plug the power cord into grounded outlet (See GROUNDING INSTRUCTIONS).
- 6. Connect the vacuum and cleaning tool hoses to the extractor. This unit is equipped with an 1/8" male quick connect for solution hose attachment and a 1" ID vacuum hose hookup. Insure that the female solution hose coupler is securely locked onto the male coupler on the extractor.
- 7. Turn switch ON. This switch operates both the vacuum motor and the water pump. NOTE: The pump is an oscillating pump and should not be run dry for extended periods of time. This may cause damage to your pump, therefore voiding your warranty.
- 8. Squeeze the solution lever on the cleaning tool to spray cleaning solution and place the vacuum head on the surface to be cleaned. Normally, chemical is applied on the *push* stroke while vacuuming is done on the *pull* stroke. For heavily soiled carpets the hand tool may be used in the scrubbing manner, applying chemical in both the push and pull stroke.

 ALWAYS FINISH UP AN AREA WITH A VACUUM PULL STROKE.
- 9. When cleaning, be sure to monitor the level of recovered solution in the recovery tank. When the solution reaches the FULL mark, shut off the extractor, loosen the latches and empty the recovery tank.

NOTE: Dispose of waste in a proper manner which would not violate any Local, State or Federal law.

A CAUTION

Operating vacuum with solution above the FULL mark could draw water directly into the vac motor. This will cause damage to the motor, therefore voiding your warranty.

A CAUTION

ALWAYS TEST UPHOLSTERY/CARPET FOR COLOR FASTNESS IN AN INCONSPICUOUS PLACE. Also, to avoid

prolonged drying times, do not spray too much solution in any one area.

A WARNING

Always use defoamer if foaming occurs. Foam will suspend large particles which may damage vacuum as well as allow liquid into the vacuum motor without activating the float shutoff.

A WARNING

To prevent possible disease hazard, before attempting to clean bodily fluids spills, you must kill any viruses, germs or bacteria present in the bodily fluid.

SUITABLE CHEMICALS INCOMPATIBLE CHEMICALS

Alkalis Aldehydes
Clorox II Bleach* Aromatic Hydrocarbons

Defoaming Agents Butyls

Detergents CarbonTetrachloride Hydroxides Clorox*

Oxygen Bleaches Chlorinated Bleaches

Soaps Chlorinated Hydrocarbons
Sta-Puf Fabric D-Limonene

Softener* Lysol*

Vinegar Methyls (MEK)

Perchlorethylene perc)

Phenols

Trichlorethylene

*Registered Trademark

A WARNING

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

SHUT DOWN AND STORAGE

- 1. Turn Switch OFF. Empty recovery tank completely and rinse several times to remove any dirt or debris that may be left behind.
- 2. Tip the solution tank over a sink to drain any unused cleaning solution and rinse with clean water to remove any suds left behind by the cleaning chemicals. NOTE: Dispose of waste in a proper manner which would not violate any Local, State or Federal law
- 3. Run a small amount of clean water through pump if chemicals were used. This will help insure the life of your pump.
- 4. Check the spray jet on the cleaning tool for full spray pattern and inspect vac head for any obstructions. Also make sure to clean the filter cap attached to portal cover of any debris that may have been trapped during cleaning.
- Remove as much moisture from system before storing in cold climates. Excess water may freeze during storage and crack internal components, causing damage to the unit.

DAILY MAINTENANCE:

Follow same procedure for Shut Down and Storage.

PERIODIC MAINTENANCE:

- Twice a month, flush a white vinegar solution (one quart vinegar to two gallons water) or antibrowning solution (mixed as directed) through the extractor. This will prevent build-up of alkaline residue in the system.
- 2. If spray jet becomes clogged, remove the spray tip, wash it thoroughly, and blow dry. NOTE: Do NOT USE PINS, WIRE, ETC. TO CLEAN NOZZLE AS THIS COULD DESTROY THE SPRAY PATTERN.
- 3. Apply silicone lubricant to solution nipple.
- 4. Periodically inspect all hoses, electrical cable 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 on the power cord is broken or frayed, repair or replace immediately. Don't take chances with electrical fire or shock.

A WARNING:

Only qualified maintenance personnel are to perform the following repairs.

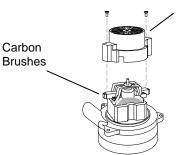
SOLUTION PUMP REPLACEMENT:

- 1. Turn off all switches and unplug the machine.
- 2. Unlatch and remove recovery tank.
- 3. Unfasten screws holding vacuum motor housing to solution tank.
- Unfasten screws holding pump plate to bottom of solution tank.
- 5. Remove solution hoses from fittings on pump.
- 6. Remove pump from brackets and remove fittings and grounding wire.
- 7. Reverse process to install new replacement pump.

VACUUM MOTOR REPLACEMENT:

- 1. Turn off all switches and unplug machine.
- 2. Unlatch and remove recovery tank.
- 3. Unfasten screws holding vacuum motor retainer to vacuum motor housing
- 4. Lift vacuum motor from vacuum motor housing. Locate the vacuum motor wires and disconnect at the connector.
- 5. Remove vacuum motor.
- 6. Reverse process to install vacuum motor replacement.

Vacuum Motor Carbon Brushes Replacement



End Cap

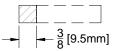
WARNING: The green ground wire must be attached for safe operation. See wiring diagram.

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



Important:

These brushes wear quicker as the length shortens due to increased heat. Spring inside brush housing will damage motor if brushes are allowed to wear away completely.



Periodically check the length of the carbon brushes. Replace both carbon brushes when either is less than 3/8" (9.5mm) long.

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TROUBLESHOOTING

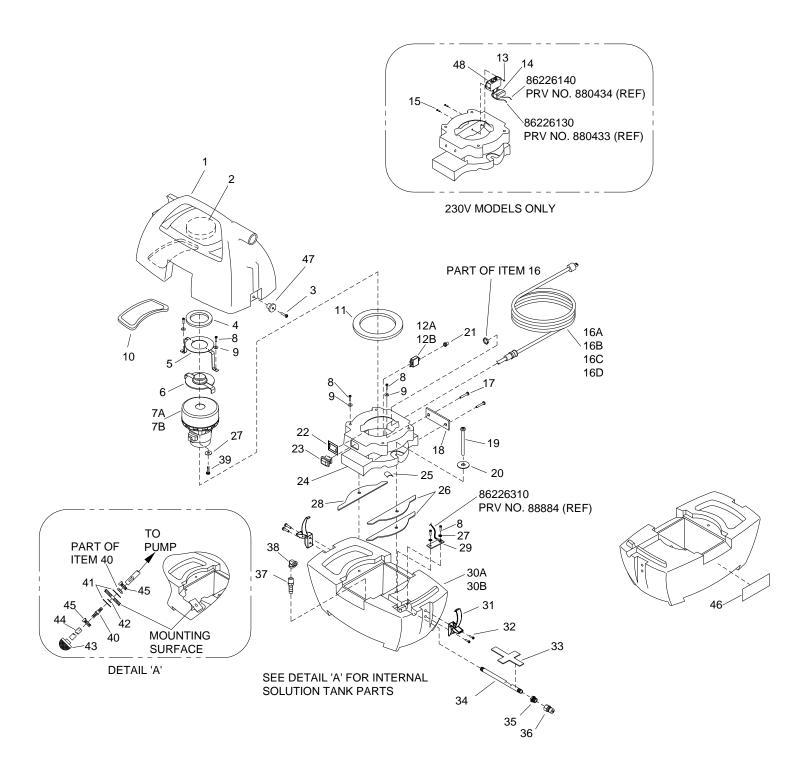
TROUBLESHOOTING

PROBLEM.	CAUSE	SOLUTION
Little or no solution flow	Clogged spray jet on cleaning tool	Remove and clean jets
	Faulty pump	Check and replace pump.
	Incorrectly attached solution hose	Ensure solution hose coupler is securely attached to the coupler on the solution tank.
Loss of vacuum/ Solution recovery	Incorrectly attached vac hose	Ensure vac hose is pushed completely onto the recovery tank inlet.
	Obstruction in cleaning tool	Inspect for and remove any debris.
	Recovery tank is not securely mounted on the solution tank.	Tighten latch on either end of the machine.

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NOTES

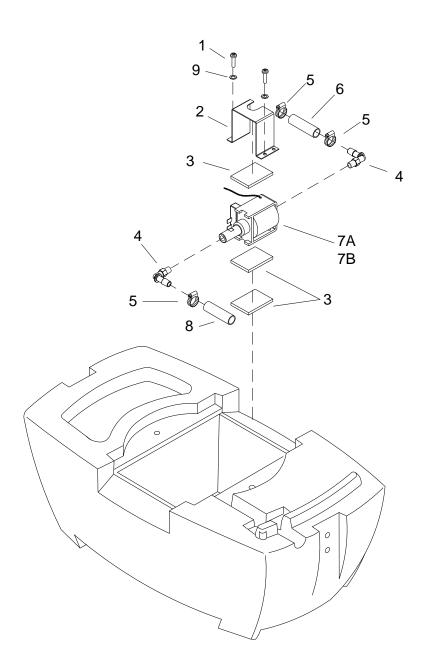
EXTRACTOR GROUP



EXTRACTOR GROUP

1 86225200 75211 1 TANK, RECOVERY	REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
3 88223730 70859 2 SCREW, 8-32 X 1/2 FHMS BLK PLTD	1	86225200	75211	1	TANK, RECOVERY		
4 86237440 35168 1 CASKET, 4.08 X 2.50 X 38 5 86223440 67511 1 RETAINER, VAC MOTOR 6 86217310 270102 1 COVER, VAC MOTOR 7A 86256440 53137 1 VAC MOTOR, 120 V2ST LNP 7B 86225500 53813 1 VAC MOTOR, 230 V2ST LNP 8 8622500 53813 1 VAC MOTOR, 230 V2ST LNP 230V MACHINES ONLY 8 86274290 70162 6 SCR, 10-32 X 38 PPHMS SS 9 86225770 87494 4 WASHER, MS X 12.5 FLATS S 10 86237410 35160 1 GASKET, SPOTTER RECOVERY 11 86237420 35161 1 GASKET, SPOTTER RECOVERY 12 8621570 140839 1 BREAKER, 8A VDE CIRCUIT 12 8621570 141046 1 BREAKER, 5A VDE CIRCUIT 13 86010890 87068 2 WASHER, 18 RIVET BACKUP 14 86261160 27952 1 CAPACITOR ASM, EMI SPOTTER 15 86136540 67481 3 RIVET, MA X 14 MM 16 86217060 23722 1 CORD ASM, LEND SPOTTER 16 86217060 23722 1 CORD ASM, LEND SPOTTER 16 86217090 23722 1 CORD ASM, LEND SPOTTER 17 86136550 67483 2 RIVET, MS X 12 MM 18 8607090 80 257253 1 CORD ASM, LEND SPOTTER 18 86255760 32723 1 CORD ASM, LEND SPOTTER 19 86225760 32722 1 CORD ASM, LEND SPOTTER 20 86225760 32722 1 CORD ASM, LEND SPOTTER 21 BROOZED BROOZED STATE EUROPE MACHINE 22 86233510 27373 1 CORD ASM, LEND SPOTTER 23 ROVER MACHINE 24 86225760 70556 2 SCREW, 14-20 X 1.5 PHMS PLTD 25 86225760 70556 2 SCREW, 14-20 X 1.5 PHMS PLTD 26 86225760 87493 2 WASHER, MS X 22 FLAT PLTD 27 8601640 87109 33724 1 CORD ASM, LEND SPOTTER 28 86225760 70556 1 SAM SPOTTER 29 86233510 27375 1 CLIP, SWITCH BETAINING 30 86225760 87493 1 CLIP, SWITCH BETAINING 30 86225760 87493 1 CLIP, SWITCH BETAINING 30 86225760 87493 1 CLIP, SWITCH BETAINING 30 86225760 70556 1 SAM SPOTTER 30 86225760 87493 1 CLIP, SWITCH BETAINING 30 86225760 70556 1 SAM SPOTTER 30 86235760 70556 1	2	86236520	34293	1	FOAM, 4.00 OD X 1.0 THICK		
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12A	_						
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15							230V MACHINES ONLY
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47 86241790 48074 2 KEEPER, PRESTO LATCH	45	86233150	20042	2	CLAMP, HOSE		
	46	86220140	500895	1	LABEL, WARNING		
	47	86241790	48074	2	KEEPER, PRESTO LATCH		
	48	86236010	34290				230V MACHINES ONLY

SOLUTION PUMP GROUP

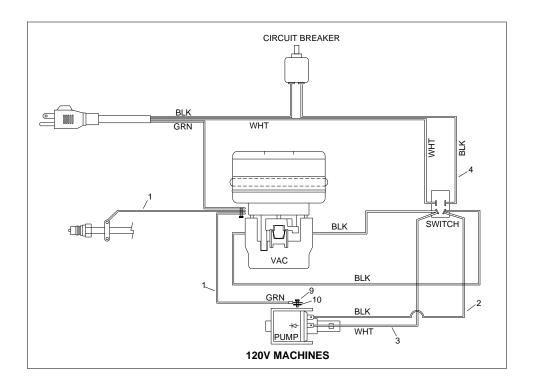


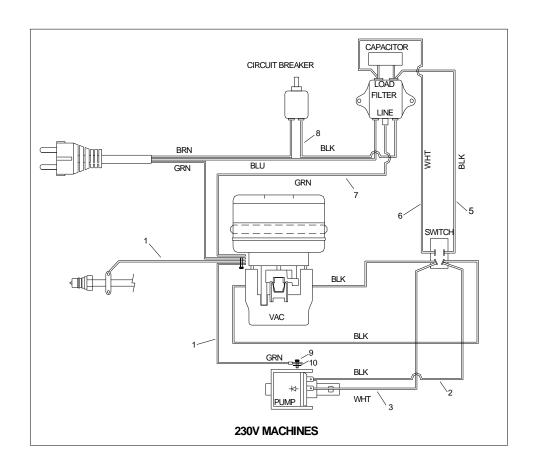
86221950 02/20/07

SOLUTION PUMP GROUP

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86275710	70528	2	SCREW, 10-32 X 3/8 PPH EX- SEMS		
2	86068690	140172	1	BRACKET, SOLENOID PUMP		
3	86237530	35187	3	GASKET, TUBE SEAL		
4	86197590	40031	2	HOSEBARB, 1/8 MPT 3/8 90°		
5	86233150	20042	3	CLAMP, HOSE		
6	86240290	39714	1	HOSE, 3/8ID WIREBOUND X 2.6"		
7A	86201110	250-78	1	PUMP, 110/120V 60HZ FLOJET		
7B	86201120	250-78A	1	PUMP, 220/240V 50 HZ FLOJET		230V MACHINES ONLY
8	86281310	39326	1	HOSE, 3/8ID WIREBOUND X 8.8"		
9	86010640	87016	2	WASHER, #10 EXT. TOOTH LOCK		

WIRING DIAGRAM

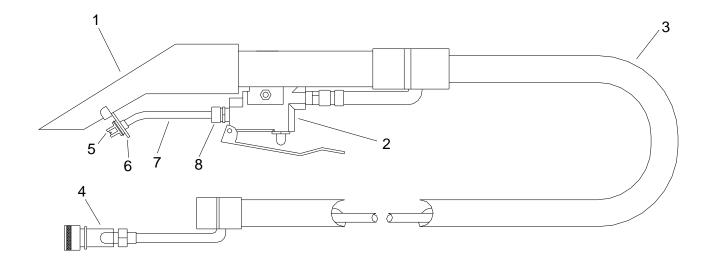




WIRING PARTS LIST

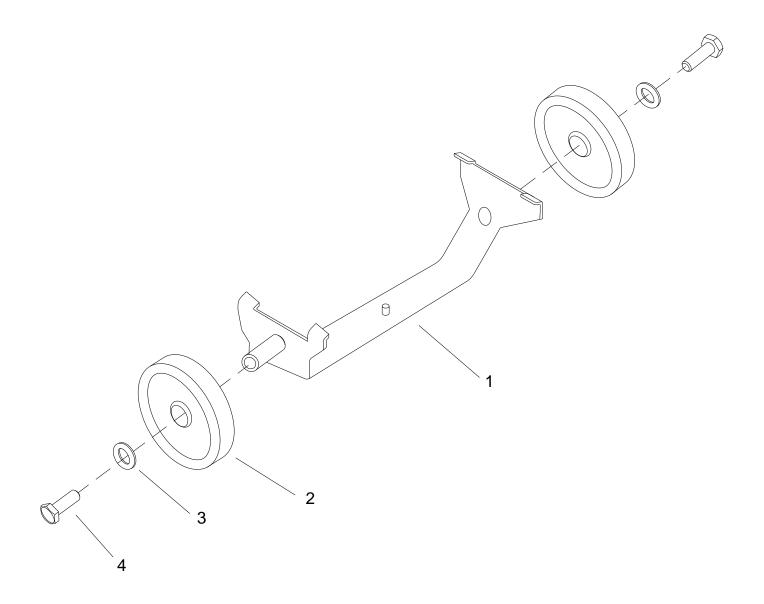
REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86226310	88884	2	WIRE, 14" GRN/18 76008 X 76008		
2	86226100	880430	1	WIRE, 13" BLK/14 76050 X 76029		
3	86226110	880431	1	WIRE, 13" WHT/14 76050 X 76059		
4	86226120	880432	1	WIRE, 9" BLK/14 76029 X 76029		
5	86226130	880433	1	WIRE, 9" BLK/14 76050 X 76029		
6	86226140	880434	1	WIRE, 9" WHT/14 76050 X 76029		
7	86226160	880436	1	WIRE, 10" GRN/14 76022 X 76010		
8	86226150	880435	1	WIRE, 12" BLK/14 76029 X 76022		
9	86006770	70323	1	SCR, 10-32 X 1/4 PHTR PLTD		
10	86010640	87016	1	WASHER, #10 LOCK EXT STAR SS		

HAND TOOL



HAND TOOL

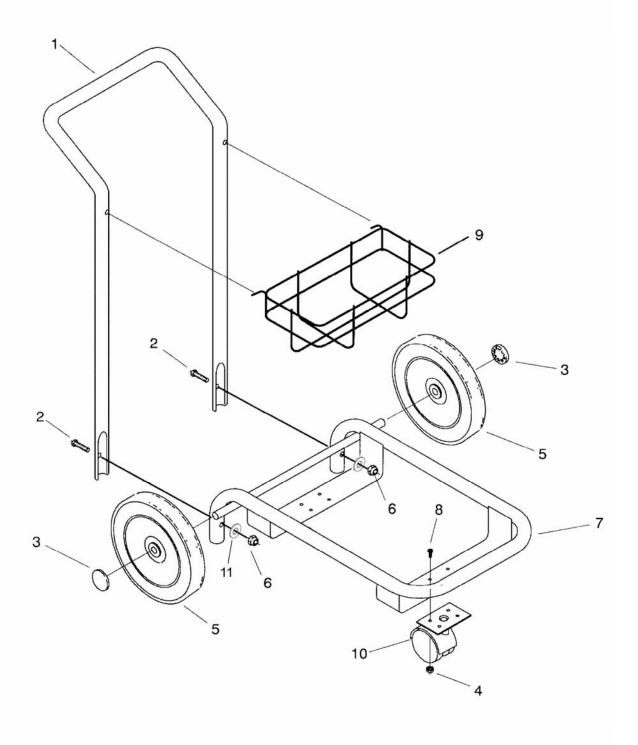
REF	PART NO.	PRV NO.	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86219340	41536	HOUSING, HANDTOOL SPOTTER		
2	86225670	84200	VALVE ASM, SPOTTER OKA		
3	86219020	39712	HOSE ASM, VAC/SOLUTION		
4	86200810	270-11	NIPPLE, 1/8 FPT QD FEM BRASS		
5	86219570	44100	JET, ASM W/O RING		
6	86223100	629998	PLATE, RETAINER W/HARDWARE		
7	86221910	54202	MANIFOLD, SPOTTER		
8	86218000	34438	FTTG, 1/8MPT X 3/16 COMP		
-	86218790	нто	HAND TOOL, SPOTTER		ENTIRE ASSEMBLY AS KIT



5-9

MINI CART

REF	PART NO.	PRV NO.	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86222950	62846	PLATE, WELDMENT		
2	86259770	89086	WHEEL, 5"D X 1" X .5" ID GRY		
3	86137280	87054	WASHER, M8 FLAT DIN125A PLT		
4	86136640	70262	SCR, M8 X 20 HHMS PLTD		
-	86222030	PMCT	MINI CART		ENTIRE ASSEMBLY AS KIT



CART

REF	PART NO.	PRV NO.	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86089270	78310	TUBE, CART HANDLE		
2	86273740	70010	SCREW, 1/4-20 X 1.5 TAP PLTD.		
3	86271380	57196	NUT, 1/2 STAR LOCK PUSH-ON		
4	86005700	57104	NUT, 10-32 HEX W/ STAR WASHER		
5	86259970	89507	WHEEL, 8" GREY		
6	86005680	57047	NUT, 1/4-20 LOCK		
7	86092130	27637	CART BASE ASM, SPOTTER		
8	86006590	70088	SCREW, 10-32 X 1/2 PPHMS SS NP		
9	86228340	140088	BASKET, CART		
10	86232530	18010	CASTER, 2.5 DIA		
11	86010630	87013	WASHER, 1/4 ID X 5/8 OD SS		
-	86000030	PCT	SPOTTER CART		ENTIRE ASM AS KIT

SUGGESTED SPARE PARTS

REF	PART NO.	PRV NO.	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86225110	72194	SWITCH, DPST 250V 16(4) SPLASH		
2	86258440	53137	VAC MOTOR, 120V 2ST LNP		
3	86225500	53813	VAC MOTOR, 230V 2ST LNP		
4	86201110	250-78	PUMP, 110/120 60HZ FLOJET		
5	86201120	250-78A	PUMP, 220/240V 50HZ FLOJET		
6	86135320	140687	BRUSH SET, 120V VAC, WINDSOR		120V MOTOR ONLY
7	86135330	140688	BRUSH SET, 230V VAC, WINDSOR		230V MOTOR ONLY