

Powr-Flite[®]

OPERATOR'S MANUAL & PARTS LIST

Backpack Vacuum BP4S-1 Series

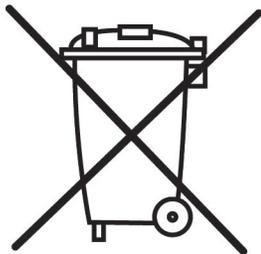


**WARNING: OPERATOR MUST READ AND UNDERSTAND THIS MANUAL
COMPLETELY BEFORE OPERATING THIS EQUIPMENT.**

Save These Instructions

INTRODUCTION

Check the carton for shipping damage. Carefully unpack and inspect your new Powr-Flite vacuum for shipping damage. Each unit is tested and thoroughly inspected prior to shipping. If damage is discovered, immediately notify the transportation company that delivered your machine and request an inspection. As a manufacturer, we are unable to act upon any claim for concealed damage; you must originate the claim. Be sure to keep the carton, packing inserts, packing lists, and carrier's receipt until the inspector has verified your claim.



PROTECT THE ENVIRONMENT

Please dispose of packaging materials in an environmentally safe way according to local waste disposal regulations.

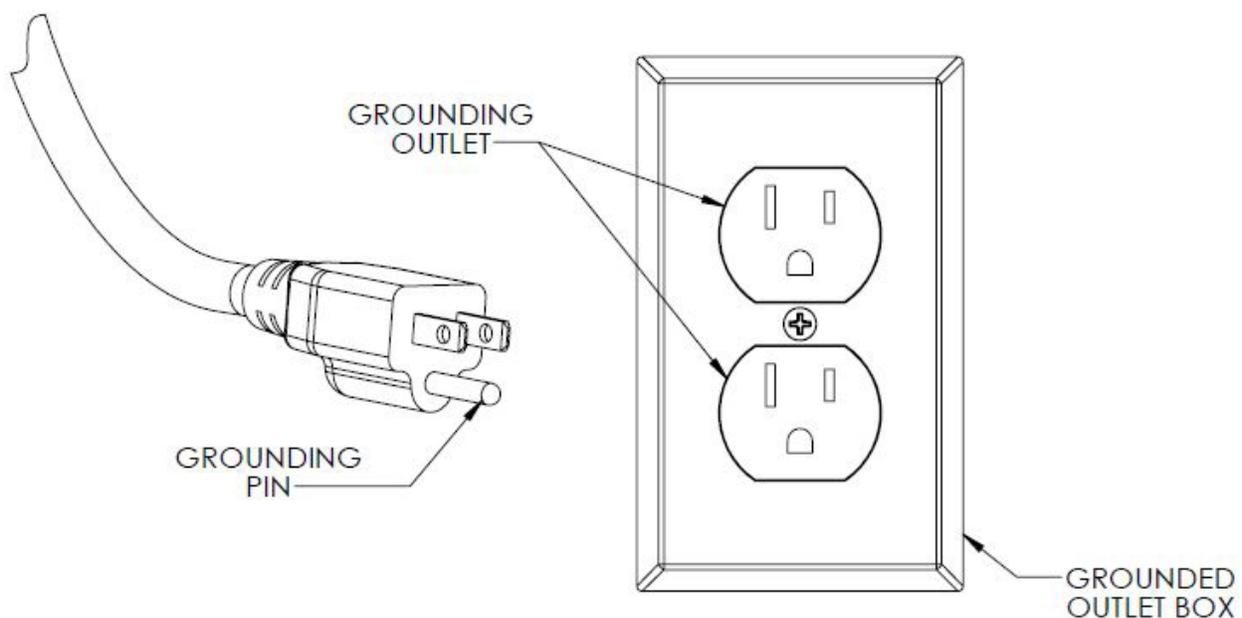
Always remember to recycle.

GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk electric shock. This machine 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.

WARNING: Improper connection of the equipment-grounding 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.

This appliance is for use on a nominal 115-volt circuit, and has a grounding plug that looks like the plug illustrated in sketch A.



A

COMMON REPLACEMENT ITEMS

DESCRIPTION	PART NO.
PAPER BAG (10 PK)	X1486
MICRO CLOTH BAG	X1487
PRE-MOTOR FILTER AND EXHAUST FILTER	X1488
EXTENSION CORD (50')	X1489

IMPORTANT SAFETY INSTRUCTIONS

Save These Instructions

SAFETY WARNINGS AND PRECAUTIONS



Read all instructions before using. Save These Instructions.

Following the cleaning instructions will prolong the life of your Powr-Flite vacuum.

When using an electrical appliance, basic precautions should always be followed.

1. Use only as instructed in this manual. Use only the recommended attachments and replacement parts.
2. Do not leave vacuum cleaner plugged in when not in use. Unplug vacuum before servicing.
3. Do not use outdoors or on wet surfaces.
4. Do not use to pick up liquids. This vacuum is for dry pickup only.
5. If the unit is not working as it should, has been dropped, damaged, left outdoors or exposed to water, return it to a service center before using.
6. Do not vacuum up hard or sharp objects, as they may damage the hose, vacuum bag or vacuum motor.
7. Do not use without paper vacuum bag, cloth bag and filters in place.
8. Do not use with damaged cord or plug.
9. Do not kink or twist the power cord.
10. Do not pull or carry by the cord, use the cord as a handle, close the door on cord or pull cord around sharp edges or corners. Keep cord away from heated surfaces.
11. Do not pull on cord to unplug. Grasp and pull the plug, not the cord. Turn off the vacuum before unplugging.
12. Do not handle the cord, plug, switch or vacuum with wet hands.
13. Do not use outlets with inadequate current capacity.
14. Do not use extension cord without the furnished P-Clamp.
15. Do not put objects into any openings. Do not use with any opening blocked. Keep free of dust, lint, hair and anything that might reduce airflow.
16. Keep hair, loose clothing, fingers and all body parts away from openings and moving parts.
17. Use with extra care when cleaning stairs.
18. Do not vacuum flammable or combustible materials or anything that is burning or smoking, such as cigarettes, matches or hot ashes.
19. Do not use without dust bag in place.
20. Sparks inside the motor can ignite flammable vapors or dust. To reduce the risk of fire or explosion, do not use near combustible liquids, gases or dusts such as gasoline or other fuels, lighter fluid, cleaners, oil-based paints or natural gas.
21. To reduce the risk of inhaling toxic vapors do not use near toxic or hazardous materials.
22. Keep children and unauthorized persons away from the vacuum when in use.
23. This machine is not intended for use by persons with reduced physical, sensory or mental capabilities, or lack of experience or knowledge.
24. Do not attempt to service the vacuum yourself. Repair by anyone other than an authorized repair service center may void the warranty.
25. Always store vacuum in a cool, dry area.

OPERATING INSTRUCTIONS

Please read the following instructions carefully. They will help to get the best performance from this professional commercial vacuum cleaner and to maintain it in optimum condition. Always make sure the main power of the vacuum is off and the unit is not plugged in when doing any maintenance on the vacuum.

Preparing To Vacuum

1. Remove vacuum hose from top of unit. Rotate to position shown in Fig. 1 and pull upward.



2. Release the two latches and lift off lid (figure 2 & 3).



3. Ensure micro cloth bag is fully seated on tank housing (figure 4).



4. Insert paper bag inside micro cloth bag (figure 5).



5. Ensure that paper bag is not protruding under cardboard flange (figure 6).



6. Replace lid, lock down the two latches and install hose.



7. Ensure cord is retained by the P-Clamp (figure 7).

8. Store the power cord on the cord hook located on the harness frame after each use (figure 8).



9. Affix the Switch box to the harness with the available straps. (figure 9).



WARNING!

Always use the P-clamp. There is a risk of electrical shock/damage to the backpack vacuum if P-clamp is not used. (Fig. 7)

OPERATING INSTRUCTIONS



WARNING!

Always unplug machine before cleaning, or making any adjustments or repairs.

The backpack vacuum has four levels of filtration: The paper bag, a micro cloth bag, a pre-motor filter and an exhaust filter. These bags and filters are designed to capture fine particles and protect the motor from dirt. It is important to replace the paper bag when it is no more than ½ full and to clean the filters on a regular schedule. Replace filters every 6 months or as you see performance decline.

Paper Vacuum Bag

1. Remove paper bag. Insert a new paper bag into the micro cloth bag, making sure the cardboard disk is centered on the flexible sealing ring (figure 1).
2. Replace the lid. Fasten the latches and replace hose (figure 2 & 3).

Micro cloth bag

After each use, the micro cloth bag should be inspected. Wash the micro cloth bag every 6 months using cold water and no detergent. Line dry.

3. Remove the micro cloth bag, clean and replace (figure 4).
4. Replace paper vacuum bag and lid. Fasten latches and replace hose.

Pre-motor filter

The pre-motor filter is located under the housing assembly (figure 5). Access the filter by removing the housing assembly. The filter can be removed by rotating counter-clockwise 45 degrees.

It is recommended that the filter be replaced every 6 months.

Exhaust filter

The exhaust filter is an easy-access, washable and reusable filter located on the lower front of the cleaner. For average use of the vacuum, remove and clean the exhaust filter every 3 months. The filter can be washed using cold water and no detergent. Lay flat to dry. Replace once a year.

1. Remove the foam filter exhaust cover using the latch at the top. Remove filter, clean and replace (figure 6).
2. Reinstall the filter into exhaust cover and reattach cover to front of cleaner.



MAINTENANCE

Routine maintenance can significantly increase the life of your backpack vacuum. The applications and amount of use varies, so the recommendations listed below are for average-to-high volume use. Constant operation may require additional maintenance.

Before Each Use

1. Inspect power cord for fraying, cuts or damage; do not use if damaged.
2. Verify that paper bag is installed.
3. Confirm that filters are in place and not obstructed.

After Each Use

1. Unplug cord from wall by pulling on the plug, not the cord.
2. Lay plug on the ground.
3. Start at the machine and loosely wrap (loop) power cord.
4. Hang cord on cord hook on harness frame (figure 1).

Periodic Maintenance

1. Inspect all electrical connections.
2. Check power cord for any breaks, cuts, separation or fraying. Replace if damage is visible.
3. Make certain the grounding plug is intact.



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TROUBLE SHOOTING

If the vacuum will not turn on:

1. Make sure the power cord is firmly connected to the unit and is in good condition.
2. Check to make sure the power cord is firmly seated in the wall outlet.
3. Check to see if the building circuit breaker is tripped. If the circuit is overloaded, move the unit to another circuit.

The backpack has been fitted with a thermal overload switch to protect the motor against damage should the airflow be blocked for extended periods. This may occur if the paper bag is overfull, the micro cloth bag is clogged, or if the vacuum hose or exhaust is blocked. The vacuum motor will stop before it can get too hot. If this occurs, empty and thoroughly clean the vacuum bag and filters, or free any blockage and ensure that adequate airflow is restored. If the motor shuts down, turn off power switch, unplug the backpack and allow to cool. When you plug it in after cooling, the motor will operate when the power switch is enabled.

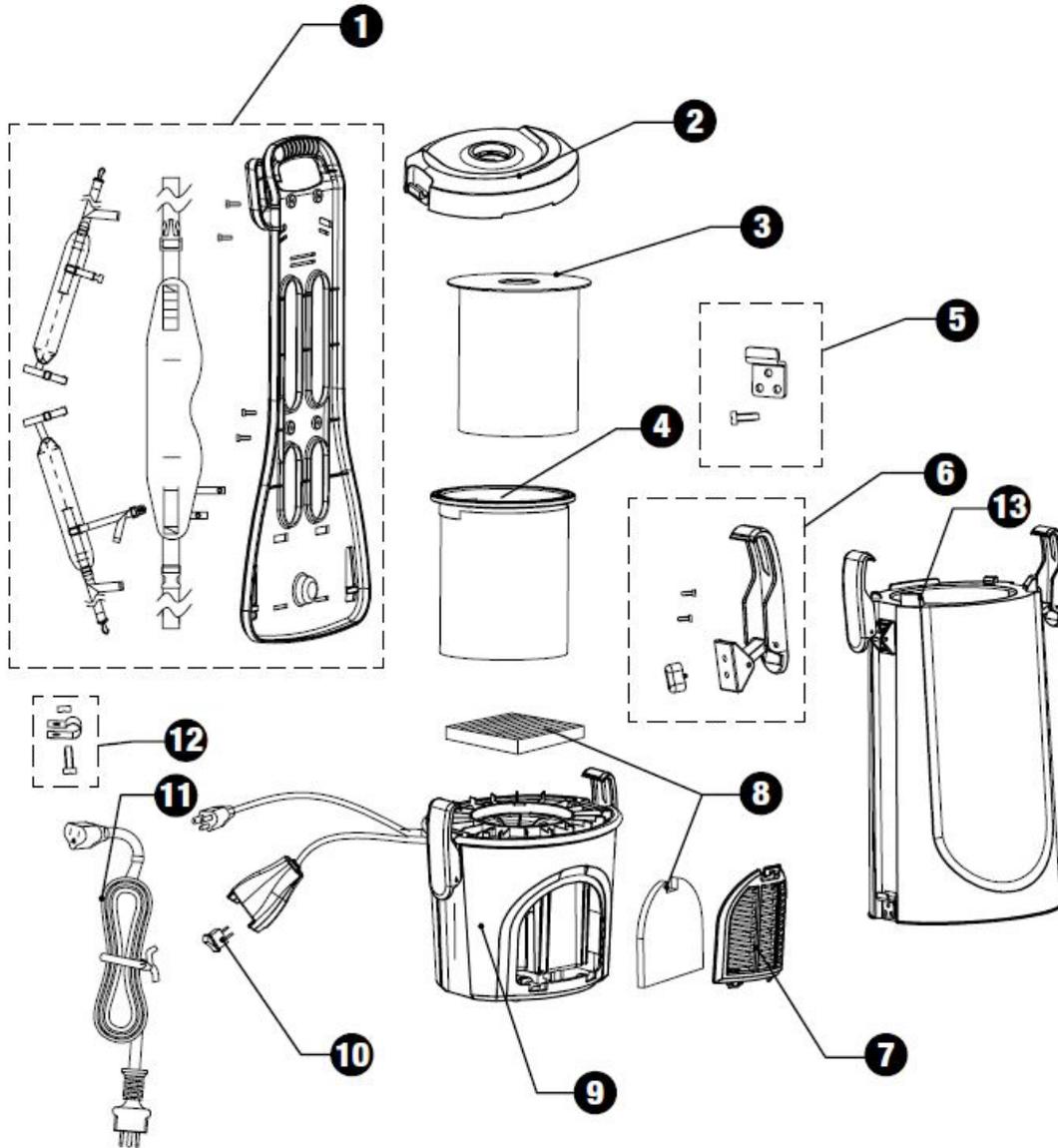
SPECIFICATIONS



PRODUCT SPECIFICATIONS

MODEL	BP4S-1
ACCESSORY TOOLS	STANDARD
BODY	HIGH IMPACT POLYPROPYLENE
DIMENSIONS (L x W x H) · (in./ cm)	9.5" x 9.0" x 22.5" (24cm x 23cm x 57cm)
BACKPACK WEIGHT (LBS / KG)	10.0 Lbs (4.5 Kg)
CORD TYPE LIENGTH (Feet/ Meters)	16/3 SJT, 50 ft (15.2m)
CAPACITY (Quarts / Liters)	4.0 Qt. (3.8 L)
FILTRATION	4 STAGE
WATERLIFT (in./ cm)	100 in. (254 cm)
CFM/ CMM	100 (2.8)
SOUND LEVEL (dBA)	67dBA
VACUUM MOTOR	1200W/8 AMP
POWER	120V/60Hz
APPROVALS	ETL • CRI BRONZE

SCHEMATICS - PARTS LISTS



ITEM	DESCRIPTION	PART NO
1	HARNESS AND FRAME ASSEMBLY	X1492
2	TOP COVER ASSEMBLY	X1493
3	PAPER BAG (10PK)	X1486
4	MICRO CLOTH BAG	X1487
5	LOWER MOUNTING BRACKET ASSEMBLY	X1494
6	BUCKLE ASSEMBLY	X1495
7	FILTER COVER	X1496
8	PRE-MOTOR FILTER AND EXHAUST FILTER	X1488
9	MOTOR ASSEMBLY MODULE	X1497
10	SWITCH	X1498
11	EXTENSION CORD (50')	X1489
12	P-CLAMP ASSEMBLY KIT	X1500
13	HOUSING ASSEMBLY	X1499

ACCESSORY TOOLS

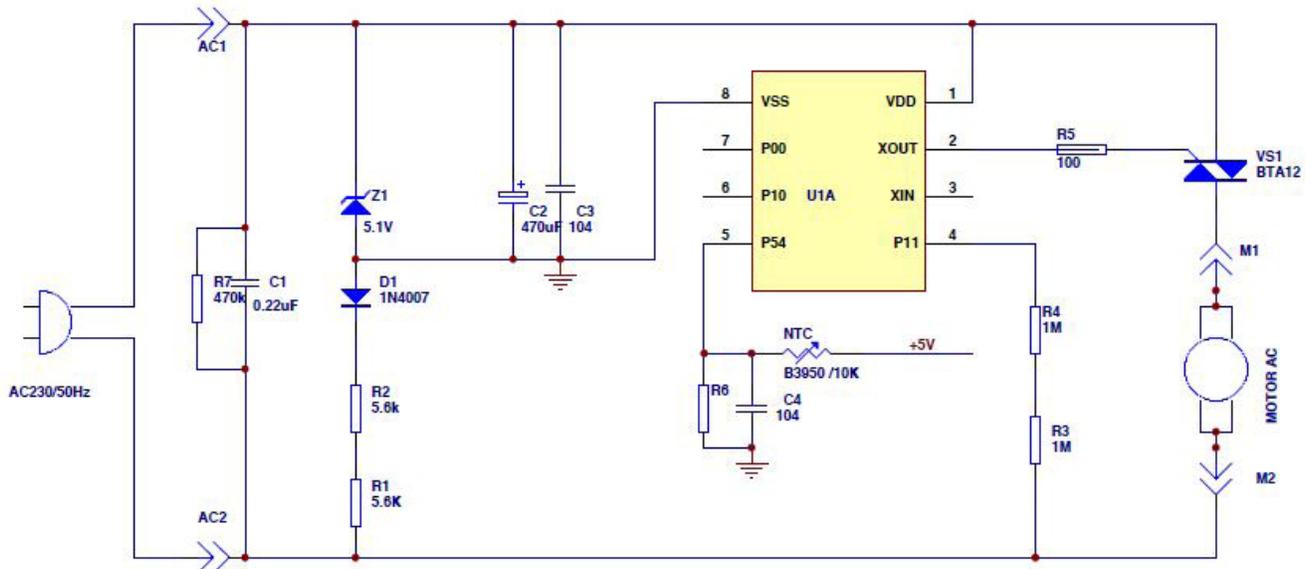


ACCESSORY TOOLS

ITEM	DESCRIPTION	PART NO
1	DOUBLE BEND WAND	CT171-CS
2	17" CREVICE TOOL	CT182
3	90 DEGREE SWIVEL CUFF	X1490
4	HARD FLOOR TOOL	C352-4400
5	POWER-GLIDE CARPET TOOL	CT190
6	4' VACUUM HOSE W/ 90 DEGREE CUFF	X1491

Additional accessory tools are also available for purchase on the Powr-Flite Website: www.powr-flite.com

WIRING DIAGRAM



For warranty information go to www.Powr-Flite.com

Powr-Flite[®]

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