

BDE **OPERATOR'S MANUAL**

■ BDE-505009B

■ BDE-505009C



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Model Number _____

Serial Number _____

Date of Purchase ____

The model and serial numbers will be found on a decal attached to the pressure washer. You should record both serial number and date of purchase and keep in a safe place for future reference.

PRESSURE WASHER OPERATOR'S MANUAL

INTRODUCTION & IMPORTANT SAFETY INFORMATION

Thank you for purchasing this Pressure Washer.

We reserve the right to make changes at any time without incurring any obligation.

Owner/User Responsibility:

The owner and/or user must have an understanding of the manufacturer's operating instructions and warnings before using this pressure washer. Warning information should be emphasized and understood. If the operator is not fluent in English, the manufacturer's instructions and warnings shall be read to and discussed with the operator in the operator's native language by the purchaser/owner, making sure that the operator comprehends its contents.

Owner and/or user must study and maintain for future reference the manufacturers' instructions.

The operator must know how to stop the machine quickly and understand the operation of all controls. Never permit anyone to operate the engine without proper instructions.

SAVE THESE INSTRUCTIONS

This manual should be considered a permanent part of the machine and should remain with it if machine is resold.

When ordering parts, please specify model and serial number. Use only identical replacement parts. This machine is to be used only by trained operators.

IMPORTANT SAFETY INFORMATION



MANUAL THOROUGH-LY PRIOR TO USE.

WARNING

WARNING: To reduce the risk of injury, read operating instructions carefully before using.

- Read the owner's manual thoroughly. Failure to follow instructions could cause malfunction of the machine and result in death, serious bodily injury and/or property damage.
- 2. Know how to stop the machine and bleed pressure quickly. Be thoroughly familiar with the controls.
- 3. Stay alert watch what you are doing.
- 4. All installations must comply with local codes. Contact your electrician, plumber, utility company or the selling distributor for specific details. If your machine is rated 250 volts or less, single phase will be provided with a ground fault circuit interrupter (GFCI). If rated more than 250 volts, or more than single phase this product should only be connected to a power supply receptacle protected by a GFCI.

DANGER: Improper connection of the equipmentgrounding conductor can result in a risk of electrocution. Check with a qualified electrician or service personnel if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the product - if it will not fit the outlet, have a proper outlet installed by a qualified electrician. Do not use any type of adaptor with this product



WARNING: Keep wand, hose, and water spray away from electric wiring or fatal electric shock may result.

 To protect the operator from electrical shock, the machine must be electrically grounded. It is the responsibility of the owner to connect this machine

to a UL grounded receptacle of proper voltage and amperage ratings. Do not spray water on or near electrical components. Do not touch machine with wet hands or while standing in water. Always disconnect power before servicing.



WARNING: Flammable liquids can create fumes which can ignite, causing property damage or severe injury.

WARNING: Risk of explosion — Do not spray flammable liquids.

6. Do not allow acids, caustic or abrasive fluids to pass through the pump.

- 7. Never run pump dry or leave spray gun closed longer than 1-2 minutes.
- 8. Keep operating area clear of all persons.



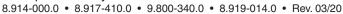
EYE WEAR AND CLOTHING

WHEN OPERATING

THIS EQUIPMENT.

WARNING: High pressure spray can cause paint chips or other particles to become airborne and fly at high speeds. To avoid personal injury, eye, hand and foot safety devices must be worn.

9. Eye, hand, and foot protection must be worn when using this equipment.



IMPORTANT SAFETY INFORMATION



WARNING: Grip cleaning wand securely with both hands before starting. Failure to do this could result in injury from a whipping wand.

TRIGGER GUN KICKS BACK - HOLD WITH BOTH HANDS

WARNING

RISK OF INJECTION OR SEVERE INJURY

TO PERSONS. KEEP

CLEAR OF NOZZLE.

WARNING

WARNING: High pressure developed by these machines will cause personal injury or equipment damage. Keep clear of nozzle. Use caution when operating. Do not direct discharge stream at people, or severe injury or death will result.

- 10. To reduce the risk of injury, close supervision is necessary when a machine is used near children. Do not allow children to operate the pressure washer. This machine must be attended during operation.
- 11. Never make adjustments on machine while in operation.
- 12. Be certain all quick coupler fittings are secured before using pressure washer.



WARNING: Protect machine from freezing.

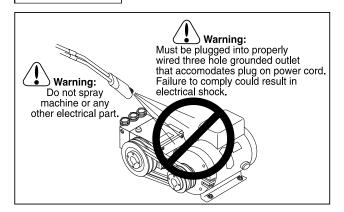
 To keep machine in best operating conditions, it is important you protect machine from freezing. Failure to protect machine from freezing could cause malfunction of the machine and result in death,

serious bodily injury, and/or property damage. Follow storage instructions specified in this manual.

- 14. Inlet water must be clean fresh water and no hotter then 90°F.
- 15. Manufacturer will not be liable for any changes made to our standard machines or any components not purchased from us.
- 16. The best insurance against an accident is precaution and knowledge of the machine.



WARNING: Be extremely careful when using a ladder, scaffolding or any other relatively unstable location. The cleaning area should have adequate slopes and drainage to reduce the possibility of a fall due to slippery surfaces.



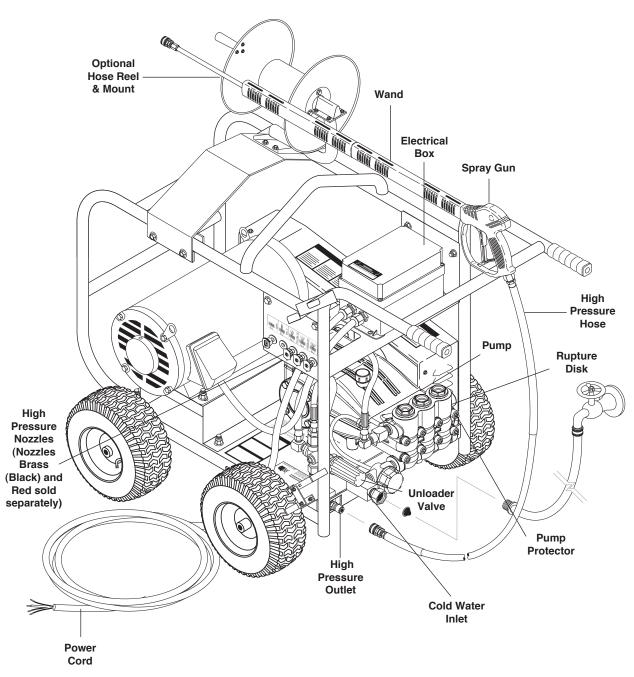
- 17. Do not overreach or stand on unstable support. Keep good footing and balance at all times.
- Do not operate this machine when fatigued or under the influence of alcohol, prescription medications, or drugs.



Follow the maintenance instructions specified in the manual.

8.914-000.0 • 8.917-410.0 • 9.800-340.0 • 8.919-014.0 • Rev. 03/20

COMPONENT IDENTIFICATION



Pump — Delivers a specific gpm to the high pressure nozzle which develops pressure.

Spray Gun — Controls the application of water and detergent onto cleaning surface with trigger device. Includes safety latch.

Detergent Injector — Allows you to siphon and mix detergents (Not Shown).

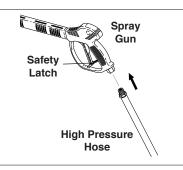
Wand — Must be connected to the spray gun.

High Pressure Hose — Connect one end to water pump high pressure discharge nipple and the other end to spray gun. **Rupture Disk** — Secondary pressure release in the unlikely event the unloader valve fails.

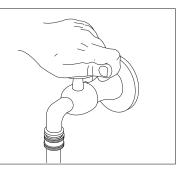
Unloader Valve — Safety device which, when the spray gun closes, prevents over pressurization.

Note: If trigger on spray gun is released for more than 1-2 minutes, water will leak from the pump protector. Warm water will discharge from pump protector onto floor. This system prevents internal pump damage. WASHER OPERATOR'S MANUA

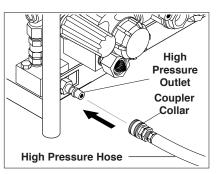
ASSEMBLY INSTRUCTIONS



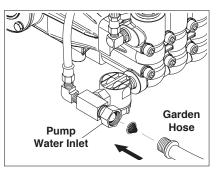
STEP 1: Attach the high pressure hose to the spray gun using teflon tape on hose threads.



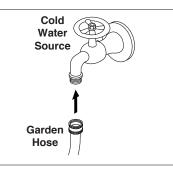
STEP 2: Before installing nozzle, turn on water supply and run machine allowing water to flush through the system until clear.



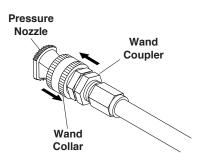
STEP 3: Connect the high pressure hose to the high pressure outlet. Push coupler collar forward until secure.



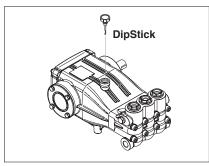
STEP 4: Connect the garden hose to pump water inlet. Inspect inlets. *CAUTION: Do not run the pump without water or pump damage will result.*



STEP 5: Connect garden hose to the cold water source.



STEP 6: Pull the spring-loaded collar of the wand coupler back to insert your choice of pressure nozzle. Release the coupler collar and push the nozzle until the collar clicks. Pull the nozzle to make sure it is seated properly.

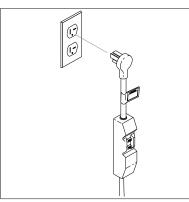


STEP 7: Remove shipping cap and install oil dipstick. Check pump oil level by using dipstick or observe oil level in oil window (if equipped). Use 40 wt. (non detergent) oil.

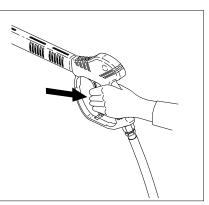
PRESSURE WASHER OPERATOR'S MANUAL

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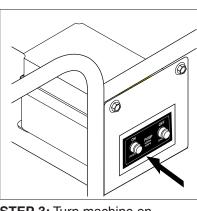
OPERATING INSTRUCTIONS



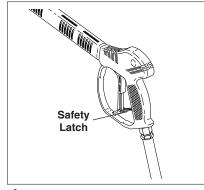
STEP 1: Connect machine to adequate power source. Push reset button on GFCI if equipped.



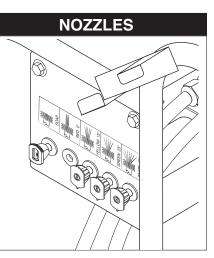
STEP 2: Trigger the spray gun to eliminate trapped air then wait for a steady flow of water to emerge from the spray wand. Then install nozzle.



STEP 3: Turn machine on.



WARNING! Never replace nozzles without engaging the safety latch on the spray gun trigger.



The four color-coded quick connect nozzles provide a wide array of spray widths from 15° to 40° and are easily accessible when placed in the convenient rubber nozzle holder, which is provided on the front of the machine.

NOTE: For a more gentle rinse, select the white 40° or green 25° nozzle. To scour the surface, select the yellow 15° nozzle. To apply detergent select the black soap nozzle.

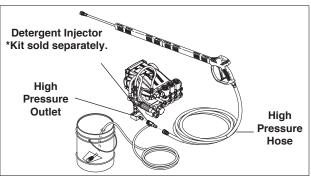
*Nozzles Brass (Black) sold separately.

APPLYING DETERGENT & GENERAL OPERATING TECHNIQUES



WARNING WARNING: Some detergents may be harmful if inhaled or ingested, causing severe nausea, fainting or poisoning. The harmful elements may cause property damage or severe injury.

STEP 1: Connect detergent injector to high pressure outlet on machine, Connect high pressure hose to injector with quick coupler. (Check to make sure locking coupler sleeves are in proper position before applying water pressure.)





STEP 2: Use detergent designed specifically for pressure washers. Household detergents could damage the pump. Prepare detergent solution as required by the manufacturer. Fill a container with pressure washer detergent. Place the filter end of detergent suction tube into the detergent container.



STEP 3: With safety latch on spray gun engaged, secure black detergent nozzle into quick coupler. **NOTE:** Detergent cannot be applied using yellow, green or white nozzles.

STEP 4: With the motor running,

pull trigger to operate machine. Liquid detergent is drawn into the machine and mixed with water. Apply detergent to work area. Do not allow detergent to dry on surface.

IMPORTANT: You must flush the detergent injection system after each use by placing the suction tube into a bucket of clean water, then run the pressure washer in low pressure for 1-2 minutes.

THERMAL PUMP PROTECTOR

If you run the engine on your pressure washer for 1-2 minutes without pressing the trigger on the spray

gun, circulating water in the pump can reach high temperatures. When the water reaches this temperature, the pump protector engages and cools the pump by discharging the warm water onto the ground. This thermal device prevents internal damage to the pump.

CLEANING TIPS

Pre-rinse cleaning surface with fresh water. Place detergent suction tube directly into cleaning solution and apply to surface at low pressure (for best results, limit your work area to sections approximately 6 feet square and always apply detergent from bottom to top). Allow detergent to remain on surface 1-3 minutes. Do not allow detergent to dry on surface. If surface appears to be drying, simply wet down surface with fresh water. If needed, use brush to remove stubborn dirt. Rinse at high pressure from top to bottom in an even sweeping motion keeping the spray nozzle approximately 1 foot from cleaning surface. Use overlapping strokes as you clean and rinse any surface. For best surface cleaning action spray at a slight angle.

Recommendations:

- Before cleaning any surface, an inconspicuous area should be cleaned to test spray pattern and distance for maximum cleaning results.
- If painted surfaces are peeling or chipping, use extreme caution as pressure washer may remove the loose paint from the surface.
- Keep the spray nozzle a safe distance from the surface you plan to clean. High pressure wash a small area, then check the surface for damage. If

no damage is found, continue to pressure washing.

CAUTION - Never use:

- Bleach, chlorine products and other corrosive chemicals
- Liquids containing solvents (i.e., paint thinner, gasoline, oils)
- Tri-sodium phosphate products
- Ammonia products
- Acid-based products

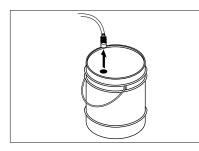
These chemicals will harm the machine and will damage the surface being cleaned.

RINSING

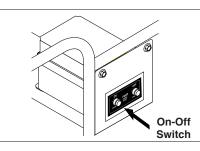
It will take a few seconds for the detergent to clear. Apply safety latch to spray gun. Remove black soap nozzle from the quick coupler. Select and install the desired high pressure nozzle. **NOTE:** You can also stop detergent from flowing by simply removing detergent siphon tube from bottle.

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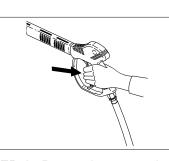
SHUT DOWN AND CLEAN-UP



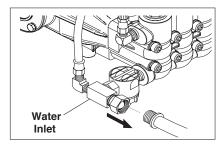
STEP 1: Remove detergent suction tube from container and insert into one gallon of fresh water. For low pressure connect the black detergent nozzle. Pull trigger on spray gun and siphon water for one minute.



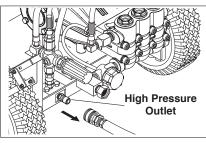
STEP 2: Turn off the motor.



STEP 3: Press trigger to release water pressure.



STEP 4: Disconnect the garden hose from the water inlet on the machine.



STEP 5: Disconnect the high pressure hose from high pressure outlet.



STEP 6: Engage the spray gun safety lock.

STORAGE

Pump Storage



CAUTION: Always store your pressure washer in a location where the temperature will not fall below 32° F (0° C). The pump in this machine is susceptible to permanent damage if frozen.

FREEZE DAMAGE IS NOT COVERED BY WAR-RANTY.

If you must store your pressure washer in a location where the temperature is below 32° F, you can minimize the chance of damage to your machine by draining your machine as follows:

- 1. Stop the pressure washer and detach supply hose and high pressure hose. Squeeze the trigger of the spray gun to drain all water from the wand and hose.
- 2. Restart pressure washer and let it run briefly (about 5 seconds) until water no longer discharges from the high pressure outlet.

In temperatures below 32° you may connect a bulkhead fitting to the bottom of a bucket then attach a garden hose to siphon anti-freeze into the pump.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION		
PUMP RUNNING NORMALLY BUT	Pump sucking air	Check water supply and possibility of air seepage.		
PRESSURE LOW	Check valves sticking	Check and clean or replace if necessary.		
ON INSTALLATION	Unloader valve seat faulty	Check and replace if necessary.		
	Nozzle incorrectly sized	Check and replace if necessary.		
	Worn piston packing	Check and replace if necessary.		
FLUCTUATING	Valves worn	Check and replace if necessary.		
PRESSURE	Blockage in valve	Check and clean out if necessary.		
	Faulty or misadjusted unloader valve	Tampering with the factory setting may cause personal injury and/or property damage, and will void the manufacturer's warranty.		
	Pump sucking air	Check water supply connections.		
	Worn piston packing	Check and replace if necessary.		
	Insufficient water	Check filter and hose for breakage.		
PRESSURE LOW	Nozzle worn	Check and replace if necessary.		
AFTER PERIOD OF NORMAL USE	Suction or delivery valves worn Check and replace if necessa			
NORMAL USE	Suction or delivery valves blocked	Check and clean if necessary.		
	Unloader valve seat worn	Check and replace if necessary.		
	Worn piston package	Check and replace if necessary.		
PUMP NOISY	Air in suction line	Check water supply and connections on suction line.		
	Broken or weak suction or delivery valve spring	Check and replace if necessary.		
	Foreign matter in valves	Check and clean if necessary.		
	Worn bearings	Check and replace if necessary.		
	Excessive temperature of water	Reduce to below 140°F.		
PRESENCE OF WATER	Oil seal worn	Check and replace if necessary.		
IN PUMP OIL	High humidity in air	Check and change oil twice as often.		
	Piston packing worn	Check and replace if necessary.		
WATER DRIPPING FROM UNDER PUMP	Piston packing worn	Check and replace if necessary.		
	O-Ring plunger retainer worn	Check and replace if necessary.		
WATER DRIPPING FROM PUMP	Water supply pressure too high (over 90 psi)	Lower water supply pressure using a regulator.		
PROTECTOR	Spray gun is in the off position for over 1-2 minutes	Turn machine off if not in use for over 1-2 minutes.		
OIL DRIPPING	Oil seal worn	Check and replace if necessary.		
EXCESSIVE VIBRA- TION IN HIGH-PRES- SURE HOSE	Irregular functioning of the pump valves	Check and replace if necessary		

PREVENTATIVE MAINTENANCE

This pressure washer was produced with the best available materials and quality craftsmanship. However, you as the owner have certain responsibilities for the correct care of the equipment. Attention to regular preventative maintenance procedures will assist in preserving the performance of your equipment. Contact your dealer for maintenance. Regular preventative maintenance will add many hours to the life of your pressure washer. Perform maintenance more often under severe conditions.

Pump Oil	Inspect	Daily inspect the oil level			
(Non foaming) SAE 10W-40	Change	After first 50 hours, then every 500 hours or annually			
Replace high pressure nozzle		Every 6 months			
Replace quick connects		Annually			
Clean water screen/filter		Weekly			
Replace HP hose		Annually if there is any sign of wear			
Grease motor		Every 10,000 hour			
Belt Tension/Inspection		Daily			
Check Air Pressure in Tires		Daily			

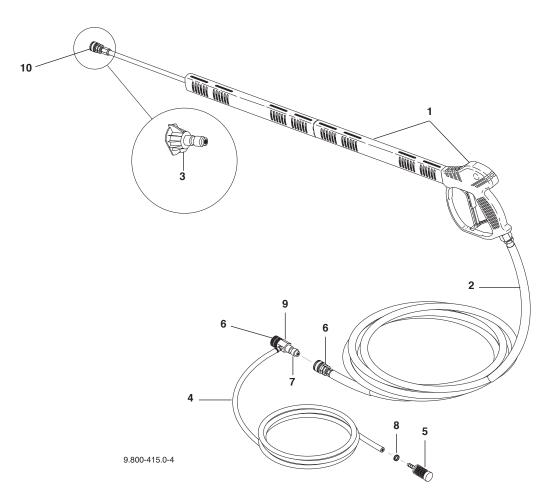
OIL CHANGE RECORD

Check pump oil and engine oil level before first use of your new pressure washer.

Date Oil Changed Month/Day/Year	Estimated Operating Hours Since Last Oil Change		Date Oil Changed Month/Day/Year	Estimated Operating Hours Since Last Oil Change
		-		
		-		
		_		
		-		

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HOSE & SPRAY GUN ASSEMBLY



HOSE & SPRAY GUN ASSEMBLY PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-228.0	Gun w/Wand (5000 PSI), w/Coupler	1	4	9.802-251.0	Hose, 1/4" x 1/2" Clear Vinyl	6 ft.
2	8.918-088.0	Hose, 3/8" x 50', 2W, TS,S SW,HIGH PRESS CP (MF		5	9.802-160.0	Strainer, Plastic, 1/4" Hose Barb	1
3	9.803-811.0	BDE,BRE and HD) Nozzle, SAQCMEG 1504	1 5,	6	9.802-167.0	Coupler, 3/8" Fem, 11,000 PSI, Snap-Tite	1
	9.803-812.0	Yellow Nozzle, SAQCMEG 2504	1 5,	7	9.802-168.0	Nipple, 3/8" Fem, 11,000 PSI	1
	9.803-813.0	Green Nozzle, SAQCMEG 4004.	1	8	6.390-126.0	Clamp, Hose, .4654 ST	2
	9.802-311.0	White Nozzle COMPL, QCEM-6	์ 1	9	9.802-167.0	Injector, SS, Non Adj, 2.0-4.0 GPM, 5500 PSI	1
		Brass	1	10	8.756-030.0	Coupler. 1/4" Socket, Male, Brass	1



HOTSY LIMITED NEW PRODUCT WARRANTY

PRESSURE WASHERS

WAHAAT TIHIS WAARRANNITY COVERS

All Hotsy pressure washers are warranted by Hotsy to the original purchaser to be free from defects in materials and workmanship under normal use, for the periods specified below. This Limited Warranty is subject to the exclusions shown below, is calculated from the date of the original purchase, and applies to the original components only. Any parts replaced under this warranty will assume the remainder of the part's warranty period.

SEVEN YEAR PARTS AND ONE YEAR LABOR WARRANTY:

Components manufactured by Hlotsy, such as frames, handles, top and bottom wraps, float tanks, fuel tanks, belt guards, and internal components on the oil-end of HOTSY manufactured pumps. General, AR, Liberty, Cornett and swash and wobble plate pumps have a one year warranty. Heating coils have a five year warranty from date of original machine purchase.

one year parts and one year labor warranty:

All other components, excluding normal wear items as described below, will be warranted for one year on parts and labor. Parts and labor warrants of the original component numeration of the original component name for one year befor an parts will be for one year negandless of the duration of the original component name for one sear negandless of the duration of the original component.

WARRANTY PROVIDED BY OTHER MANUFACTURERS:

Motons, generators, and engines, which are warranted by their nexpective manufacturers, are serviced through these manufacturers' local authonized service centers. Hotsy is not authonized and has no responsibility to provide warrantly service for such components.

WAHAAT TIHIS WAARRANITY DOES NOT COVER

This warmantly does not cover the following items:

- Nkommail wear items, such as mozzles, spray guns, discharge hoses, wands, quick couplers, seals, filters, gaskets, O-nings, packings, pistons, pump valve assemblies, strainers, belts, brushes, nelief valves, fuses, pump protec – tors.
- 2. Damage or malfunctions resulting from accidents, abuse, modifications, alterations, inconnectionstallation, improper servicing, failure to follow manufacturer's maintenance instructions, or use of the equipment beyond its stated usage specifications as contained in the operator's manual.
- 3. Damage due to freezing, chemical deterioration, scale build up, rust, corrosion, or thermal expansion.
- 4. Damage to components from fluctuations in electrical or water supply.
- 5. Normal maintenance service, including adjustments, fuel system cleaning, and cleaning of obstructions.
- 6. Trænsporttætion to service center, field læbor chænges, or freight dænæge.

WHHAT YOU MUST DO TO OBTAIN WARRANTY SERVICE

In order to obttain warranty service on items warranted by Hotsy, you must return the product to your Authorized Hotsy Distributor, freight prepaid, with proof of punchase, within the applicable warranty period. If the product is permanently installed, you must notify your Authorized Hotsy Distributor of the defect. Your Authorized Hotsy Distributor will file a claim with Hotsy, who must subsequently verify the defect. In most cases, the part must be returned to Hotsy freight prepaid with the claim. For warranty service on components warranted by other manufacturer's, your Authorized Hotsy Distributor can help you obtain warranty service through these manufactures' local authorized service centers.

LUMITATION OF LUABILITY

Hiotsy's liability for special, incidental, or consequential damages is expressly disclaimed. In no event shall Hiotsy's liability exceed the purchase price of the product in question. Hotsy makes every effort to ensure that allillustrations and specifications are correct, however, these do not imply a warranty that the product is marchantable or fit for a particular purpose, or that the product will actually conform to the illustrations and specifications. Our obligation under this warranty is expressly limited at our option to the replacement or repair at a service facility or factory designated by us, of such part or parts as inspection shall disclose to have meen defective. The warranty inputed warranty of memcannability or factory of memcannability or fault of all of all of all of all of all of the product service facility or factory of memcannability or fault or parts as inspection shall disclose to have meen defective. The warranty inputed warranty of memcannability or fault of memcannability or fault of the prometers of the product or promises inspection shall disclose to have meen defective. The warranty inputed warranty of memcannability or fault of the product are parts as inspection shall disclose to have meen defective. The warranty inputed warranty of memcannability or fault of the fault o

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ESSURE WASHER WARRANT

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If you need service on your pressure washer, contact your local Hotsy dealer or visit www.Hotsy.com. Smart phone users scan the code below to link directly to the Service Request page.





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