## 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.

This manual should be considered a permanent part of the machine and should remain with it if the machine is resold. When ordering parts, please specify model and serial number.

## IMPORTANT SAFETY INFORMATION WARNING:


**When using this product basic precautions should always be followed, including the following:**

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

1. Read the owner's manual thoroughly. Failure to follow instructions could cause a malfunction of the machine and result in death, serious bodily injury and/ or property damage.

2. Know how to stop the machine and bleed pressures 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.


**WARNING: Risk of asphyxiation. Use this product only in a well ventilated area.**

5. Avoid installing machines in small areas or near exhaust fans. Exhaust contains poisonous carbon monoxide gas; exposure may cause loss of consciousness and may lead to death. It also contains chemicals known in certain quantities, to cause cancer, birth defects, or other reproductive harm.

**WARNING:**

# INTRODUCTION:

Thank you for purchasing the HOODZ branded Pressure Washer.

This manual covers the operation and maintenance of the Gas Engine, Hot Water Pressure Washer Series.

All information in this manual is based on the latest product information at the time of printing.

HOODZ reserves the right to make changes at any time without incurring any obligations


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

**CAUTION:**
**Risk of fire. Do not add fuel when the product is operating.**

6. Allow engine to cool for 2 minutes before refueling. If any fuel is spilled, make sure the area is dry before testing the spark plug or starting the engine. (Fire and/or explosion may occur if this is not done.)

Gasoline engines on mobile or portable equipment shall be refueled:
(a) outdoors;
(b) with the engine on the equipment stopped;
(c) with no source of ignition, within 10 feet of the dispensing point; and
(d) with an allowance made for expansion of the fuel should the equipment be exposed to a higher ambient temperature. In an over-filling situation, additional precautions are necessary to ensure that the situation is handled in an safe manner.

**WARNING: Risk of explosion - do not spray flammable liquids.**

7. Do not place machine near flammable objects as the engine is hot.


**WARNING**
**Risk of injection or severe injury to persons - Keep clear of nozzle - Do not touch or direct discharge stream at persons. This machine is to be used only by trained operators.**

**CAUTION: Hot discharge fluid. Do not touch or direct discharge stream at persons or animals.**

8. High pressure developed by these machines will cause personal injury or equipment damage. Use caution when operating. Do not direct discharge stream at people or animals, or severe injury or death will result.


**WARNING: High pressure spray can cause dirt or other particles to become airborne and fly at high speeds.**

9. Eye safety devices, safety clothing and foot protection must be worn when using this equipment.
10. Never make adjustments on machine while it is in operation.

**WARNING: Spray gun kicks back. Hold then with both hands.**

11. Grip cleaning wand securely with both hands before starting the cleaner. Failure to do this could result in injury from a whipping wand.
12. Machines with spray gun should not be operated with the spray gun in the off position for extensive periods of time as this may cause damage to the pump.
13. The best insurance against an accident is precaution and knowledge of the machine.
14. HOODZ will not be liable for any changes made to our standard machines, or any components not purchased from HOODZ.


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

15. Read engine safety instructions provided.
16. Never run pump dry or leave spray gun closed longer than 5 minutes.
17. Inlet water must be cold and clean fresh water.
18. Use No. 1 or No. 2 Heating Oil (ASTM D306) only.

**NEVER use gasoline in your fuel oil tank. Gasoline is more combustible than fuel oil and could result in a serious explosion.**

**NEVER use crankcase or waste oil in your burner. Fuel unit malfunction could result from contamination.**

19. Do not confuse gasoline and fuel oil tanks. Keep proper fuel in proper tank.
20. Protect machine from freezing.
21. Be certain all quick coupler fittings and nozzles are secured before using pressure washer.
22. Do not allow acids, caustic, or abrasive fluids to pass through the pump.
23. To reduce the risk of injury, close supervision is necessary when a product is used near children.

**DO NOT ALLOW CHILDREN** to operate the pressure washer. This machine must be attended during operation.

24. Do not operate this product when fatigued or under the influence of alcohol or drugs. Keep operating area clear of all persons.
25. Protect discharge hose from vehicle traffic and sharp objects. Inspect condition of high pressure hose before using or bodily injury may result.
26. Before disconnecting discharge hose from water outlet, turn burner off and open spray gun to allow water to cool below 100°F before stopping the machine. Then open the spray gun to relieve pressure. Failure to properly cool down or maintain the heating coil may result in a steam explosion.
27. HOODZ will not be liable for any changes made to our standard machines or any components not purchased from HOODZ.
28. Do not overreach or stand on unstable support. Keep good footing and balance at all times.
29. This machine must be attended during operation.
30. **CAUTION:** Risk of injury. Disconnect battery ground terminal before servicing.

## PRE-OPERATION CHECK

1. Pump oil (SAE 30W non-detergent oil, General)
2. Cold water supply (6-11gpm • 58" • 20 psi or tank)
3. Hose, wand, nozzle (nozzle to machine specification)
4. Water filter (intact, clean and non restrictive)
5. Engine fuel (unleaded 86 or higher octane)
6 Engine oil (SAE 10W30)
7. Burner fuel (No. 1 home heating fuel or diesel)

## SET-UP PROCEDURES

**This machine is intended for outdoor use only.**
**Machine must be stored indoors when not in use.**
1. Attach an adequate water supply hose to inlet connector. Minimum flow should be 6 or 11 gpm depending on model of machine.
2. Attach high pressure hose to discharge nipple using quick coupler. Lock coupler securely into place by pulling back coupler collar and inserting it into discharge nipple, then pushing collar forward to lock in place.
3. Attach pressure wand to spray gun using teflon tape on threads to prevent leakage.
4. Attach swivel connector on discharge hose to spray gun using teflon tape on threads.
5. Check engine and pump oil level by removing oil dipstick, making sure oil is on proper indicator marking. Oil should be visible one half way up sight glass (SAE 30W non-detergent).
6. Fill marked gasoline tank.
7. Fill marked fuel tank. Do not confuse gasoline and fuel oil (diesel) tanks. Keep proper fuel in proper tank.
8. Install proper battery making sure that the red cable is attached to the positive terminal. Use a 12V Group 24 battery.

**If you don't understand any instructions in this manual you must call HOODZ at 1-800-346-4876 BEFORE you attempt to use the HOODZ Pressure Washer.**

## OPERATING INSTRUCTIONS

1. Read engine warning and operating instructions.
2. Turn on water at faucet or tank. Check for water leaks; tighten as needed.
3. Pull wand coupler collar back and insert desired pressure nozzle into wand coupler then secure by pushing coupler collar forward.
4. Pull spray gun trigger to relieve pressure. Read engine manual provided and pull choke. Turn engine switch to the START position and hold it there until the engine starts. **NOTE:** Do not engage electric starter for more than five (5) seconds at a time. If engine fails to start, release the switch, pull spray gun trigger to relieve pressure and wait ten seconds before operating the start again. When the engine starts, allow the engine switch to return to the ON position. If the engine is to be started without the battery, turn switch to start position and pull starter rope to start. Turn off choke. **CAUTION:** Small engines may kick back. Do not hold starter rope tightly in hand.
5. With the spray nozzle pointed away from you or anybody else, press the trigger on the spray gun to obtain pressurized cold water spray.
6. For hot water, turn the burner switch to ON when a steady stream of water flows out of the spray gun. Burner will now light automatically. **NOTE:** Do not start machine with burner switch on.
7. To apply detergent, place detergent pick-up tube into a container of detergent and turn the detergent valve counter clockwise. Make sure the low pressure nozzle has been properly installed on the lance. Before pulling trigger point nozzle in a direction away from humans or animals.

## GENERAL WASHING TECHNIQUES

1. Always run a Test Pattern first. The Test Pattern should be in an inconspicuous area in case the desired results are not achieved. Start out holding the spray nozzle approximately two foot from the surface being cleaned. Spray at an angle to get under the material and lift it off.
2. When detergent is required for cleaning, start applying the detergent from the bottom-up and always rinse from the top-down. Quality detergents should clean on contact with a dwell time on the surface to be no more that 10-15 seconds. In heavier greasy enviroments longer dwell time may be necessary to penetrate the substrate.
3. Cleaning heavy dirt or material away with a hard stream of clear water is recommended before using a cleaning agent.

## SHUT DOWN PROCEDURES

1. Rinse all detergent lines with clean water, to remove any soap residue.
2. Turn burner switch off and continue spraying, allowing the water to cool to below 100°F before shutting down engine.
3. Turn engine key switch off.
4. Turn off water supply.
5. Squeeze trigger on spray gun to relieve remaining pressure.
6. Remove water supply hose unless you are pulling from a water tank.
7. In freezing conditions, disconnect water and add a 50/50 mixture of anti-freeze to a clean 5 gallon container. Connect a small 4'-5' section of garden hose to the inlet side of the pump and place the other end of the garden hose in the anti-freeze mixture. With the high pressure hose attached to the system without the gun and lance start the machine and allow the engine to idle while pulling the mixture into the pump and through the system. Allow the mixture to flow out of the discharge end of the high pressure hose. Now turn off the engine and place the discharge end of the high pressure hose into the partially empty mixture container. When ready to use the machine reverse the procedure and recapture the anti-freeze in the mixture container to be use again.

**CAUTION: Do not allow pump to run longer than 5 minutes without water. Disconnect all hoses to allow water to drain. With machine off, open spray gun to release pressure before removing discharge hose.**

**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.**


## HOW TO USE THE DETERGENT INJECTOR

The machine can siphon and mix detergents with the use of the furnished detergent injector.

1. Pull injector quick coupler collar back and secure on discharge nipple. Injector valve body arrow should point in direction of flow.
2. Connect high pressure hose to injector discharge nipple securing quick coupler.
3. Start machine as outlined in Operating Instructions.
4. Place detergent pick-up tube into container of detergent.
5. Install the Quick Connect Soap Nozzle on the lance. This lowers the pressure by directing the water flow through the soap nozzle and allows the detergent injector to siphon soap.
6. Open spray gun. Water detergent ratio is approximately 15-20 to 1.
7. When you have finished applying the detergent remove the soap nozzle and install the high pressure nozzle and rinse. NOTE: The detergent injector will not siphon detergent with the water flowing through the high pressure nozzle at the end of the wand.
8. For clean up, place detergent pick-up tube into container of clear water and follow steps 4 and 5 to prevent detergent deposits from damaging the injector, hose and trigger gun.

**NOTE: Bleach should never be run through the system in any concentration. Damage to exposed components will occur and void all warranties to those components.**

## PREVENTATIVE MAINTENANCE

1. Check to see that water pump is properly lubricated. There is a site glass located on the crank end of the pump. The oil level should not be any higher the "indicator dot" in the middle of the site glass
2. Follow winterizing instructions to prevent freeze damage to pump and coils.
3. Always neutralize and flush detergent from system after use.
4. If water is known to be high in mineral content, use a water softener on your water system, or de-scale as needed.
5. Do not allow acidic, bleach, caustic or abrasive fluids to be pumped through system.
6. Always use high grade, quality cleaning products.
7. Never run pump dry for extended periods of time.
8. Use clean fuel-kerosene, No. 1 fuel oil, or diesel. Clean or replace fuel filter every 50 hours of operation. Avoid water contaminated fuel as it will damage the fuel pump.
9. If machine is operated with smoky or eye burning exhaust, coils will soot up, not letting water reach maximum operating temperature.
10. Never allow water to be sprayed on or near the engine or burner assembly or any electrical component.
11. Periodically de-lime coil.
12. Before each start-up check to see that engine is properly lubricated. It is advisable, periodically, to visually inspect the burner. Check air inlet to make sure it is not clogged or blocked. Wipe off any oil spills and keep equipment clean and dry. The flow of combustion and ventilating air to the burner must not be blocked or obstructed in any manner. The area around the HOODZ washer should be kept clean and free of combustible materials, gasoline and other flammable vapors and liquids.

## MAINTENANCE AND SERVICE

**UNLOADER VALVES:**

Unloader valves are preset and tested at the factory before shipping. Occasional adjustment of the unloader will be necessary to maintain correct pressure.

**WINTERIZING PROCEDURE:**

Damage due to freezing is not covered by warranty. Adhere to the following cold weather procedures whenever the washer must be stored or operated outdoors under freezing conditions. During winter months, when temperatures drop below 32°F, protecting your machine against freezing is necessary. Store the machine in a heated room. If this is not possible disconnect water and add a 50/50 mixture of anti-freeze to a clean 5 gallon container. Connect a small 4'-5' section of garden hose to the inlet side of the pump and place the other end of the garden hose in the anti-freeze mixture. With the high pressure hose attached to the system without the gun and lance start the machine and allow the engine to idle while pulling the mixture into the pump and through the system. Allow the mixture to flow out of the discharge end of the high pressure hose. Now turn off the engine and place the discharge end of the high pressure hose into the partially empty mixture container. When ready to use the machine reverse the procedure and recapture the anti-freeze in the mixture container to be use again. If compressed air is available, an air fitting can be screwed into the inlet side of the pump. Then inject the compressed air. Water will be blown out of the machine when the trigger on the spray gun is opened. Air is not the best choice on machines with coils. It will be impossible to remove all the moisture from the coil and damage may occur.

**HIGH LIMIT HOT WATER THERMOSTAT:**

For safety, each machine is equipped with a temperature sensitive, high limit control switch. In the event that the water should exceed its operating temperature, the high limit control will shut-down the fuel solenoid until the water cools then automatically reset itself. The thermostat sensor is located on the discharge side of the heating coil. The thermostat control dial is located on the control panel.

**PUMPS:**

Use only SAE 30 weight non-detergent oil. Change oil after first 50 hours of use. Thereafter, change oil every three months or at 250 hour intervals. Oil level should be checked through use of dipstick found on top of pump, or the red dot visible through the oil gauge window. Oil should be maintained at that level.

**CLEANING OF COILS:**

In alkaline water areas, lime deposits can accumulate rapidly inside the heating coil. This growth is increased by the extreme heat build up in the coil. The best preventative for liming conditions is to never pump chemicals through the pump and coil. In areas where alkaline water is an extreme problem, periodic pumping of a 5% solution of Sulfamic Acid through the coil will remove lime and other deposits before coil becomes plugged

**REMOVAL OF SOOT AND HEATING COIL:**

In the heating process, fuel residue in the form of soot deposits may develop between the heating coil pipe and block air flow which will affect burner combustion. When soot has been detected on visual observation, the soot on the coil must be washed off after following the coil removal steps. We recommend the use of our product Soot Remover on a regular basis.

From time to time the coil will have to be removed and cleaned with a pressure washer to remove excessive soot build-up. When this is done it is recommended that you replace the insulation blanket as well

**NOTE - KEROSENE, ALTHOUGH MORE EXPENSIVE WILL BURN MUCH CLEANER THAT OTHER FUELS.**

# HOODZ PRESSURE WASHER OWNERS MANUAL

**SAFETY PRESSURE RELIEF VALVE:**

If pressure from pump or thermal expansion should exceed safe limits, the safety pressure relief valve will open allowing high pressure to be discharged to the atmosphere. When the problem has been corrected the valve will reset itself.

**FUEL:**

Use clean fuel oil that is not contaminated with water and debris. Replace fuel filter and add “Soot Remover” every 100 hours of operation. Use No.1 or No 2 Heating Oil (ASTM D306) only. NEVER use gasoline in your burner fuel tank. Gasoline is more combustible than fuel oil and could result in a serious explosion. NEVER use crankcase or waste oil in your burner. Fuel unit malfunction could result from contamination. **NOTE** - Kerosene, although more expensive will burn much cleaner that other fuels.

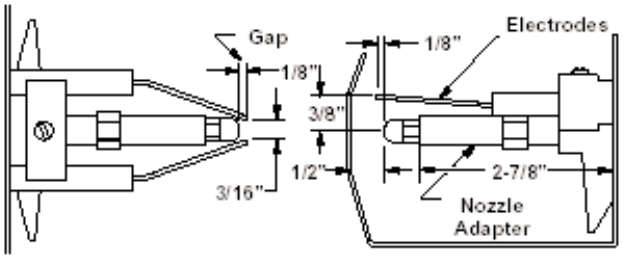
**FUEL CONTROL SYSTEM:**

This machine utilizes a fuel solenoid valve located on the fuel pump to control the flow of fuel to the combustion chamber. A flow switch activates the solenoid, which is normally closed, when water flows through it. When the operator releases the trigger on the spray gun, the flow of water through the flow switch stops, turning off the electrical current to the fuel solenoid. The solenoid then closes, shutting off the supply of fuel to the combustion chamber. Controlling the flow of fuel in this way gives an instantaneous burn-or-no-burn situation, thereby eliminating high and low water temperatures and the combustion smoke normally associated with machines incorporating a spray gun. Periodic inspection, to insure that the fuel solenoid valve functions properly, is recommended. This can be done by operating the machine and checking to see that the burner is not firing when the spray gun is in the OFF position.

**FUEL PRESSURE ADJUSTMENT:**

To control water temperature, adjust fuel pressure by turning the regulating pressure adjusting screw clockwise to increase, counterclockwise to decrease. Do not exceed 200 psi. NOTE: When changing a fuel pump, a bypass plug must be installed in return port or fuel pump will not prime.

**DC ELECTRODES SETTING**




Periodically Check Wiring Connections. If Necessary To Adjust Electrodes, Use Diagram.

**BURNER NOZZLE:**

Keep the tip free of surface deposits by wiping it with a clean, solvent saturated cloth, being careful not to plug or enlarge the nozzle. For maximum efficiency, replace the nozzle each season.

**AIR ADJUSTMENT:**

Machines are preset and performance tested at the factory - elevation 100'. A one-time initial correction for your location will pay off in economy, performance, and extended service life. If a smoky or eye-burning exhaust is being emitted from the stack, two things should be checked. First, check the fuel to be certain that kerosene or No. 1 home heating fuel is being used. Next, check the air adjustment on the burner.

The most common way to adjust the burner is to loosen the burner fan adjustment band located on the side of the burner. With the burner running stand behind the burner while the burner is exhausting at the opposite end. Lean over and watch the exhaust end while gradually closing air band on the burner. When the burner starts smoking - slowly open the air band until the smoke disappears.

**COIL REMOVAL:**

Removal of coil because of freeze breakage, or to clean soot from it can be done quickly and easily.
1. Disconnect hose from pump to inlet side of the coil.
2. Carefully disconnect the thermostat sensor making sure you do not crimp the capillary tube.
3. Remove burner assembly from combustion chamber.
4. Remove the 3-3/8 bolts from each side of coil and tank assembly (these bolts are used to fasten tank to chassis).
5. Remove fittings connected to the 1/2" pipe nipples from inlet and discharge sides of coil.
6. Remove burner end cap and slide coil out of burner tank.
7. Replace or repair any insulation found to be torn or broken.

**COIL REINSTALLATION:**

Reinstall new or cleaned coil reversing Steps 6 through 1.

**BURNER CONTROLS**

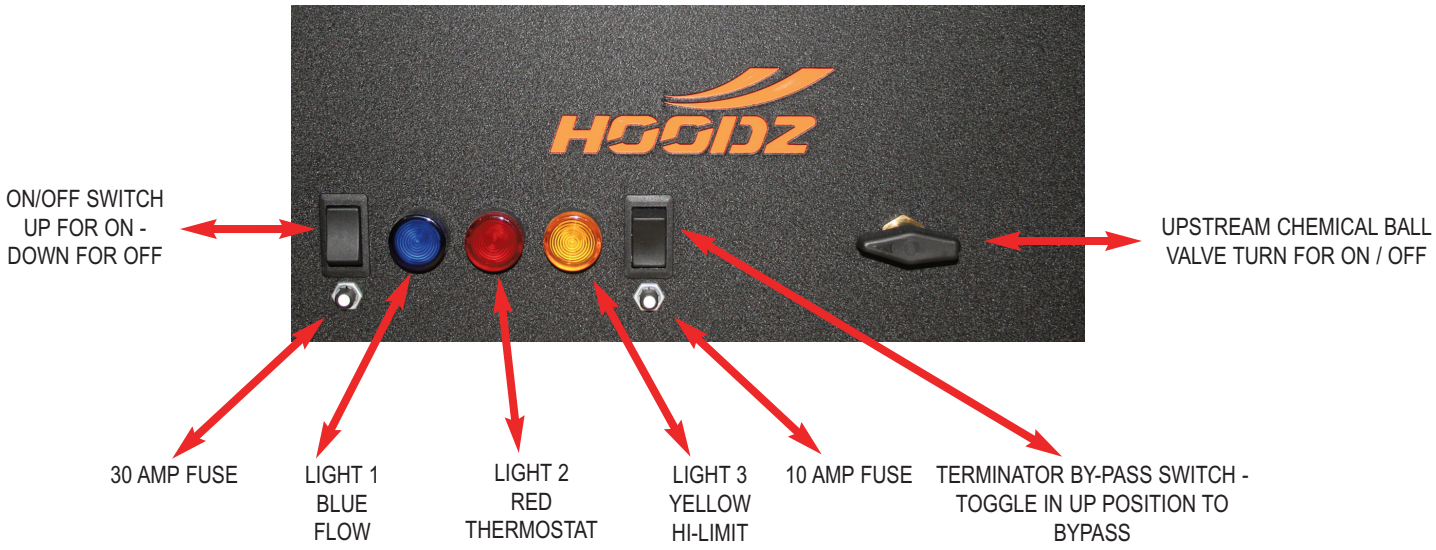
Your
**HOODZ HOT WATER PRESSURE WASHER**
has been equipped with a

# BURNER DIAGNOSTIC CENTER.

On most equipment in the industry, when burner problems arise, it will take anywhere from 15 minutes, if you are lucky, to hours to determine the problem.

More often than not the problem is with the Flow Switch, the Thermostat or the Hi-Limit Switch. Typically you will have to trace the wires, replace the item one by one and hope the problem is corrected.

With our Diagnostic Center you simply view the 3 lights on the front of the unit. When the trigger is pulled all lights should be lit if unit is operational. If your burner is not functioning the corresponding light will tell you which component is bad.




If your machine produces less than 6 gpm the unloader by-pass will return to the inlet side of the pump. Leaving the pump in by-pass for more than 4-5 minutes will damage both check valves and pump packings. With this in mind HOODZ has installed a device called a Terminator which will “kill” the Gas Engine in the event the pump head temperature reaches 145°-155°F. If the engine does shut down because it has sensed the pump head overheating you will need to “toggle” the “TERM” switch to the “by-pass” (up) position in order to restart the engine. Once the engine restarts you will need to re-set the TERM Switch to the on (down) position.

# TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|---|---|---|
| LOW OPERATING PRESSURE | Faulty pressure gauge | Install new gauge. |
| | Insufficient water supply | Use larger supply hose; clean filter at water inlet. |
| | Old, worn or incorrect spray nozzle | Match nozzle number to machine and/or replace with new nozzle. |
| | Belt slippage | Tighten or replace; use correct belt. |
| | Plumbing or hose leak | Check plumbing system for leaks. Retape leaks with teflon tape. |
| | Faulty or misadjusted unloader valve | Adjust unloader for proper pressure. Install repair kit when needed. |
| | Worn packing in pump | Install new packing kit. |
| | Fouled or dirty inlet or discharge valves in pump | Clean inlet and discharge valves. |
| | Worn inlet or discharge valves | Replace with valve kit. |
| | Obstruction in spray nozzle | Remove obstruction. |
| | Leaking pressure control valve | Rebuild or replace as needed. |
| | Slow engine RPM | Set engine speed at proper specifications. |
| | Pump sucking air | Check water supply and possibility of air seepage. |
| | Valves sticking | Check and clean or replace if necessary. |
| | Unloader valve seat faulty | Check and replace if necessary. |
| BURNER WILL NOT LIGHT | Little or no fuel | Fill tank with fuel. |
| | Improper fuel or water in fuel | Drain fuel tank and fill with proper fuel. |
| | Clogged fuel line | Clean or replace. |
| | Plugged fuel filter | Replace as needed. |
| | Misadjusted burner air bands | Readjust air bands for clean burn. |
| | Little or no fuel pressure from fuel pump | Increase fuel pressure to specification and/or replace fuel pump. Test with pressure gauge. |
| | Faulty burner transformer | Test transformer for proper arc between contacts. Replace as needed. |
| (continued on next page) | Disconnected or short in electrical wiring | All wire contacts should be clean and tight. No breaks in wire. |

# TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|---|---|---|
| BURNER WILL NOT LIGHT (continued from previous page) | Flex coupling slipping on fuel pump shaft or burner motor shaft | Replace if needed. |
| | On-Off switch defective | Check for electrical current reaching burner assembly with burner switch on. |
| | Heavy sooting on coil and burner can cause interruption of air flow and shorting of electrodes | Clean as required. |
| | Improper electrode setting | Check and reset according to diagram in Operator's Manual. |
| | Fuel not reaching combustion chamber | Check fuel pump for proper flow. Check solenoid flow switch on machines withspray gun control, for proper on-off fuel flow control. |
| | Clogged burner nozzle | Clean as required. |
| | Thermostat faulty or slow engine speed | Increase engine RPM to increase voltage. |
| | Flow switch malfunction | Remove, test for continuity and replace as needed. |
| | Flow solenoid malfunction | Replace if needed. |
| FLUCTUATING PRESSURE | Valves worn | Check and replace if necessary. |
| | Blockage in valve | Check and replace if necessary. |
| | Pump sucking air | Check water supply and air seepage at joints in suction line. |
| | Worn piston packing | Check and replace if necessary. |
| MACHINE SMOKES | Improper fuel or water in fuel | Drain tank and replace contaminated fuel. |
| | Improper air adjustment | Readjust air bands on burner assembly. |
| | Low fuel pressure | Adjust fuel pump pressure to specifications. |
| | Plugged or dirty burner nozzle | Replace nozzle. |
| | Faulty burner nozzle spray pattern | Replace nozzle. |
| | Heavy accumulation of soot on coils and burner assembly | Remove coils and burner assembly, clean thoroughly. |
| | Misaligned electrode setting | Realign electrodes to specifications. |
| | Obstruction in smoke stack | Check for insulation blockage or other foreign objects. |
| | Low engine RPM | Increase RPM. |

# TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|---|---|---|
| LOW WATER TEMPERATURE | Improper fuel or water in fuel | Replace with clean and proper fuel. |
| | Low fuel pressure | Increase fuel pressure. |
| | Weak fuel pump | Check fuel pump pressure. Replace pump if needed. |
| | Fuel filter partially clogged | Replace as needed. |
| | Soot build-up on coils not allowing heat transfer | Clean coils. |
| | Improper burner nozzle | See specifications. |
| WATER TEMPERATURE TOO HOT | Incoming water to machine warm or hot | Lower incoming water temperature. |
| | Fuel pump pressure too high | See specifications for proper fuel pressure. |
| | Fuel pump defective | Replace fuel pump. |
| | Detergent line sucking air | Tighten all clamps. Check detergent lines for holes. |
| | Defective temperature switch | Replace. |
| | Incorrect fuel nozzle size | See specifications for proper fuel pressure. |
| | Insufficient water supplied | Check water G.P.M. to machine. |
| | Restrict water flow | Check nozzle for obstruction, proper size. |
| PUMP NOISY | Air in suction line | Check water supply and connections on suction line. |
| | Broken or weak inlet or discharge valve springs | Check and replace if necessary. |
| | Excessive matter in valves | Check and clean if necessary. |
| | Worn bearings | Check and replace if necessary. |
| PRESENCE OF WATER IN OIL | Oil seal worn | Check and replace if necessary. |
| | High humidity in air | Check and change oil twice as often. |
| WATER DRIPPING FROM UNDER PUMP | Piston packing worn | Check and replace if necessary. |
| | O-Ring plunger retainer worn | Check and replace if necessary. |
| | Cracked piston | Check and replace if necessary. |
| | Pump protector | Lower water supply pressure. Do not run with spray gun closed longer than 5 minutes. |

# TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|---|---|---|
| OIL DRIPPING | Oil seal worn | Check and replace if necessary. |
| EXCESSIVE VIBRATION IN DELIVERY LINE | Irregular functioning of the valves | Check and replace if necessary. |
| DETERGENT NOT DRAWING | Air leak | Tighten all clamps. Check chemical lines for holes. |
| | | |
| | Filter screen on detergent suction hose plugged | Clean or replace. |
| | Dried up detergent plugging metering valve | Disassemble and clean thoroughly. |
| | High viscosity of detergent | Dilute detergent to specifications. |
| | Hole in detergent line(s) | Repair hole. |
| | Low detergent level | Add detergent, if needed. |
| PUMP RUNNING NORMALLY BUT PRESSURE LOW ON INSTALLATION | Pump sucking air | Check water supply and possibility of air seepage. |
| | Valves sticking | Check and clean or replace if necessary. |
| | Nozzle incorrectly sized | Check and replace if necessay (See serial plate for proper size). |
| | Unloader valve seat faulty | Check and replace if necessary. |
| | Worn piston packing | Check and replace if necessary. |
| BURNER MOTOR WILL NOT RUN | Fuel pump seized | Replace fuel pump. |
| | Burner fan loose or misaligned | Position correctly, tighten set screw. |
| | Defective control switch | Replace switch. |
| | Loose wire | Check and replace or tighten wiring. |
| | Defective burner motor | Replace motor. |
| RELIEF VALVE LEAKS WATER | Relief valve defective | Replace or repair. |

## OIL CHANGE RECORD

**Check** pump oil level before first use of your new Power Washer. **Change** pump oil after first 50 hours and every 3 months or 500 hours thereafter. Use SAE 30 weight oil, non-detergent.

| Date Oil Changed Month/Day/Year | No. of Operating Hours Since Last Oil Change | Brand Name and Type of Oil (see above) |
|---|---|---|
| | | |
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## MAINTENANCE

| Maintenance Operation | | Every 8 Hrs or Daily | 25 Hrs or Weekly | 50 Hrs or Monthly | 100 Hrs or Yearly | Yearly |
|---|---|---|---|---|---|---|
| Check Oil | Pump | | X | | | |
| | Engine | X | | | | |
| Change Oil | Pump | | | | | X |
| | Engine | | | X | | |
| Air Cleaner | | Check | | Clean | | |
| Spark Plug | | | | | X | |
| Check Valve Clearance | | | | | | X |
| Fuel Tank Filter | | | | | X | |
| Water Filter/Clean | | Check | | | | X |

# WARRANTY

## HOODZ PRESSURE WASHERS

### WHAT THIS WARRANTY COVERS

HOODZ PRESSURE WASHERS are warranted by 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. In the case of defect, please return with a copy of your proof of purchase, to the dealer from whom you purchased your pressure washer for possible warranty.

### THREE-YEAR PARTS AND NO LABOR WARRANTY:

Components manufactured by Hoodz, such as frames, handles, coil wraps, belt guards, and coils.

### NINETY DAYS MINIMUM ON PARTS AND NO LABOR WARRANTY:

All other components, excluding normal wear items as described below, will be warranted for ninety days on parts. Parts warranty will be for ninety days regardless of the duration of the original component warranty.

### WARRANTY PROVIDED BY OTHER MANUFACTURERS:

Motors, generators, and engines, which are warranted by their respective manufacturers, are serviced through these manufacturers' local authorized service centers. HOODZ cannot provide warranty on these items.

### WHAT THIS WARRANTY DOES NOT COVER

This warranty does not cover the following items:

1. Normal wear items, such as nozzles, guns, discharge hoses, wands, quick couplers, seals, filters, gaskets, O-rings, packings, pistons, pump valve assemblies, strainers, belts, brushes, thermal valves, fuses, pump protectors, flow switches.
2. Damage or malfunctions resulting from accidents, abuse, modifications, alterations, incorrect installation, 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 buildup, 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 clearing of obstructions.
6. Transportation to service center, field labor charges, or freight damage.

### WHAT YOU MUST DO TO OBTAIN WARRANTY SERVICE

In order to obtain warranty service on items warranted by HOODZ, you must return the product to the dealer from whom you purchased, freight prepaid, with proof of purchase, within the applicable warranty period. For warranty service on components warranted by other manufacturers, the HOODZ Dealer can help you obtain warranty service through these manufacturers' local authorized service centers.

### LIMITATION OF LIABILITY

HOODZ's liability for special, incidental, or consequential damages is expressly disclaimed. In no event shall HOODZ's liability exceed the purchase price of the product in question. HOODZ makes every effort to ensure that all illustrations and specifications are correct, however, these do not imply a warranty that the product is merchantable or fit for a particular purpose, or that the product will actually conform to the illustrations and specifications.

THE WARRANTY CONTAINED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. HOODZ does not authorize any other party, including authorized Dealers, to make any representation or promise on behalf of HOODZ, or to modify the terms, conditions, or limitations in any way. It is the buyer's responsibility to ensure that the installation and use of HOODZ products conforms to local codes.

While HOODZ attempts to assure that its products meet national codes, it cannot be responsible for how the customer chooses to use or install the product.


## HOODZ

731 Fairfield Ct, Ann Arbor, MI 48108
(888) 51 HOODZ