LANDA® VNG **OPERATOR'S MANUAL**

VNG4-2000

- VNG4-2024A 1.109-563.0
- VNG4-2024B 1.109-564.0
- VNG4-2024C 1.109-565.0
- VNG4-2024H 1.109-568.0 VNG4-3024H 1.109-574.0

VNG4-3000

- VNG4-3024C 1.109-571.0

- VNG6-3000
- VNG4-3024A 1.109-569.0 VNG6-3024B 1.109-575.0
- VNG4-3024B 1.109-570.0 VNG6-3024C 1.109-576.0

- **VNG8-3000**
- VNG8-3024B 1.109-579.0
- **VNG8-3024C** 1.109-580.0
- **VNG8-3024H** 1.109-582.0

VNG10-2000

- VNG10-2024B 1.109-559.0
- VNG10-2024C 1.109-560.0



For technical assistance or the dealer nearest you, consult our web page at www.landa.com

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Warranty

Model Number	
Serial Number	
Date of Purchase	
The model and serial numbers will be found on a de- to the pressure washer. You should record both serial date of purchase and keep in a safe place for future r	number and

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.

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



READ OPERATOR'S

MANUAL THOROUGHLY

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. Do not replace LP tank while machine is running.
- 5. 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 equipment-grounding 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.



PRESENT TURN

OFF SUPPLY

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

WARNING: Risk of explosion — Operate only where open flame or torch is permitted.



WARNING: Risk of fire — Do not change tanks when the product is operating or still hot.

WARNING: Use vapor fuel only.

7. Oil burning appliances shall be installed only in locations where combustible dusts and flammable gases or vapors are not present. Do not store

or use gasoline near this machine.

8. Keep operating area clear of all persons.



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.

4

IMPORTANT SAFETY INFORMATION





CAUTION

WARNING: This machine exceeds 85 db appropriate ear protection must be worn.

CAUTION: Hot discharge fluid.

Do not touch or direct discharge

WARNING: This machine produces hot water and must have

insulated components attached

stream at persons.

to protect the operator.

WARNING



WARNING: Protect machine from freezina.

13. 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,

WASHER

OPERATOR'S MANUAL

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.



RISK OF

ASPHYXIATION. USE

THIS PRODUCT ONLY

IN A WELL

VENTILATED AREA.

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

- 15. Avoid installing machines in small areas or near exhaust fans. Adequate oxygen is needed for combustion or dangerous carbon monoxide will result.
- 16. Manufacturer will not be liable for any changes made to our standard machines or any components not purchased from us.
- 17. 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.

- 18. Do not overreach or stand on unstable support. Keep good footing and balance at all times.
- 19. Do not operate this machine when fatigued or under the influence of alcohol, prescription medications, or drugs.
- 20. Follow the maintenance instructions specified in the manual.
- 21. Do not replace LP tank while machine is running. Serious injury could result.

WARNING: Use vapor fuel only.

22. The LP models are designed to run on vapor propane fuel. Do not use liquid fuel. Have a qualified serviceman install and service your equipment.

HOT DISCHARGE FLUID: DO NOT TOUCH OR DIRECT DISCHARGE STREAM AT PERSONS.

WARNING



HOT SURFACES

CAN CAUSE BURNS

WARNING: Risk of injury. Hot surfaces can cause burns. Use only designated gripping areas of spray gun and wand. Do not place hands or feet on non-insulated areas of the pressure washer.

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.



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

- 11. Never make adjustments on machine while in operation.
- 12. Be certain all quick coupler fittings are secured before using pressure washer.



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.

IMPORTANT SAFETY INFORMATION

S Ц SUR LI I C ۵ **OPERATOR'S MANUAL**

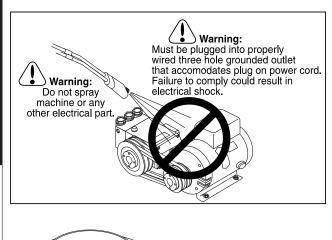
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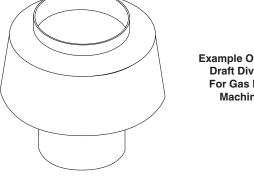
- 23. Never expose a spark or flame where there may be unburned gas present.
- 24. Install the machine 18" above the floor and about 2 feet from wall providing adequate ventilation and space.
- 25. When making repairs disconnect from electrical source and shut off gas valve.
- 26. Install this machine on non combustible flooring.
- 27. Do not allow acids, caustic or abrasive fluids to pass through the pump.
- 28. Never run pump dry or leave spray gun closed longer than 1-2 minutes.

WARNING: If connection is made to portable water supply, a back flow device must be provided.

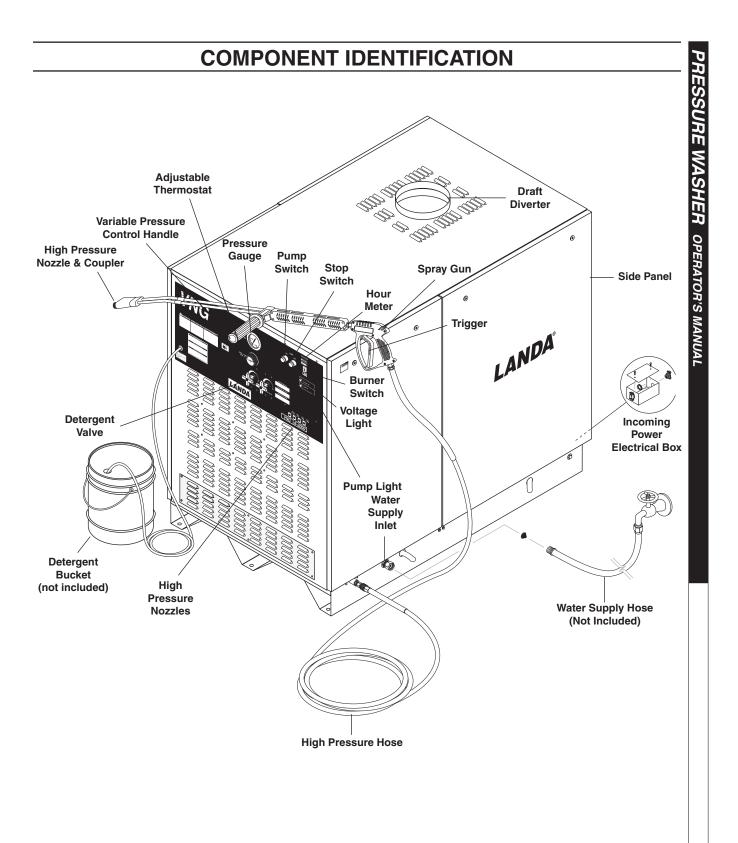


Follow the maintenance instructions specified in the manual.





Example Of Down Draft Diverter For Gas Fired Machines



7

Place machine in a convenient location providing ample support, drainage and room for maintenance.

Location:

This machine is certified for indoor installation. Its location should protect the machine from damaging environmental conditions, such as wind, rain and freezing.

- The machine should be run on a level surface where it is not readily influenced by outside sources such as strong winds, freezing temperatures, rain, etc. The machine should be located considering accessibility of the components and the refilling of detergents, adjustments and maintenance. Normal precautions should be taken by operator of machine to prevent excess moisture from reaching power machine or electrical controls.
- It is recommended that a partition be made between wash area and machine to prevent direct spray from spray gun from coming in contact with machine. Excess moisture reaching pressure washer or electrical controls will reduce life of machine and may cause electrical shorts.
- 3. During installation of machine, beware of poorly ventilated locations or areas where exhaust fans may cause an insufficient supply of oxygen. Sufficient combustion can only be obtained when a sufficient supply of oxygen is available for the amount of fuel being burned. If it is necessary to install a machine in a poorly ventilated area, outside fresh air may have to be piped to burner and a fan installed to bring air into area.
- 4. Do not locate near any combustible material. Keep all flammable material at least 20 feet away.

Allow enough space for servicing the machine.

Local code will require certain distances from floor and walls. (Two feet away should be adequate.)

AVOID SMALL LOCATIONS OR AREAS NEAR EXHAUST FANS.

Gas Codes:

Confer with local gas company and with proper municipal officials regarding any specific code or regulations governing the installation. The installation must conform to local codes.

The gas pressure coming out of the regulator and going to the burner ring has been factory set for elevations of 0 to 2000 ft. Altitudes greater than 2000 ft will require adjustments to the gas manifold pressures. Consult your local service dealer/distributor for high altitude adjustments. In Canada, certification for installation at altitudes over 4500 feet above sea level is the jurisdiction of local authorities. You should not readjust the burner ring gas pressure. If you replace your gas valve, you will need to adjust the new valve. Refer to your machine's specification plate for the correct pressure setting. Follow the installation and adjustment instructions provided with your replacement valve.

NOTE: Air for combustion and ventilation along with exhaust flue sizing must conform to methods outlined in current American Standard (ANSI-Z223.1) National Fuel Gas Code or National Standard of Canada CSA-149.1 and CSA-149.2 "Installation Code for Gas Burning Appliances".

Electrical:

The machine, when installed, must be electrically grounded in accordance with local codes. Check for proper power supply using a volt meter; check the serial plate for the correct requirements.

Gas Piping:

All piping must comply with local codes and ordinances of the National Fuel Gas Code. A sediment trap or drip leg must be installed in the supply line to the burner. See figure 1.

A union shall be installed in the gas line adjacent to and upstream from the control manifold and downstream from the manual main shut-off valve.

A 1/8" N.P.T. plugged tapping accessible for test gauge connection shall be installed immediately upstream of the gas supply connection for the purpose of determining the gas supply pressure to the burner, and to prevent damage to gas valve.

If a manual gas shut off valve is not in the gas supply line within six feet of the machine and in an accessible location, one shall be installed.

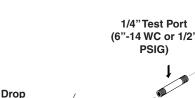
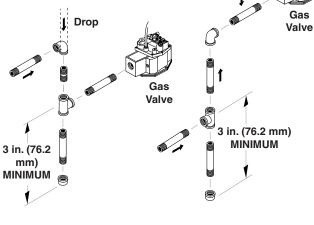
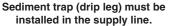
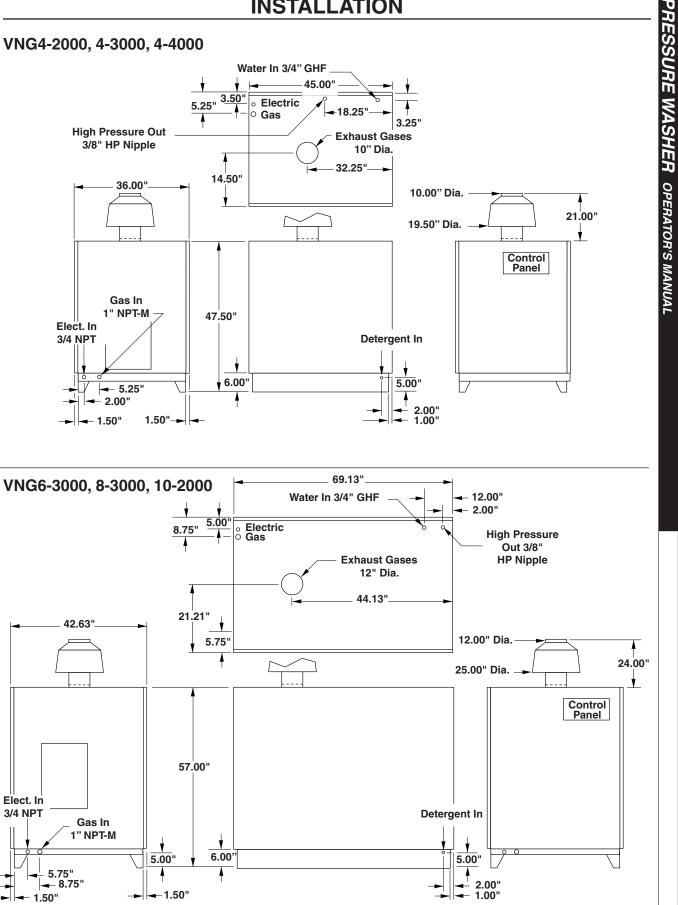


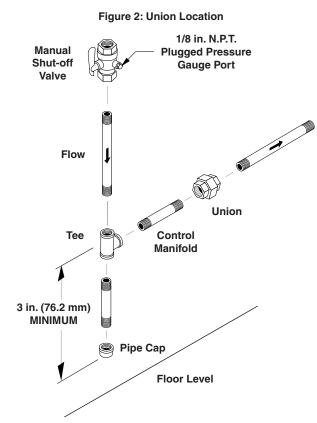
Figure 1: Drip Leg





VNG4-2000, 4-3000, 4-4000





Location of union and drip leg for connecting conversion burner to house piping.

A manual shut-off valve shall be installed in the gas supply line external to the appliance. See Figure 2. The gas line should be a separate supply direct from the meter to the burner. It is recommended that new pipe be used and located so that a minimum amount of work will be required in future servicing. The piping should be installed to be durable, substantial and gas tight. It should be clear and free from cutting burrs and defects in structure of threading. Cast iron fittings or aluminum tubing should not be used for the main gas circuit. Joint compounds (pipe dope) should be used sparingly on male threads only and be approved for all gases.

Propane Gas:

The following pipe sizes should be used between the regulator and the gas valve on the burner.

Distance From Regulator	Pipe Size
0 - 50'	1" 1 PS
50' - 100'	1-1/2" 1 PS
100' - 200'	1-3/4" 1 PS

Natural Gas:

The following pipe sizes should be used between the meter and the cleaner.

J	
	1-1/2" 1 PS
	2" 1 PS
	2-1/2" 1 PS

Pipe Size

Venting:

Because this machine is installed indoors, regulations or ventilation concerns may call for a chimney or furnace pipe.

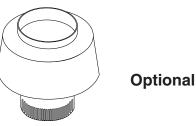
When venting the machine, if the machine is to be in an enclosed area with a stack on it, be sure the flue pipe is the same size as the stack on the machine. Poor draft will cause the machine to soot and not operate efficiently. When placing the machine for installation, keep in mind that the machine should be positioned in such a manner that the stack will be as straight as possible and protrude through the roof of the building at a proper location and at sufficient height to eliminate down draft. The flue pipe of a gas fired machine shall be installed with a down draft diverter.

Input - BTU Per Hour Size	Draft Hood & Flue Pipe
410,000 - 600,000	10 inch
600,000 - 750,000	12 inch

Draft Diverter:

The draft diverter (figure 3) should be installed at least one (1) foot above the heating coil. The diverter enhances the draft through the burner by severing

Figure 3



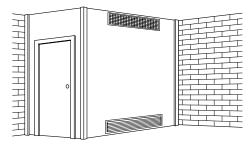
the chimney effect created in sections of furnace pipe positioned below. It also helps prevent freezing of the coil due to wind chill factors.

When the pressure washer is installed in a tightly closed room without ventilation openings to the outdoors or other rooms, provisions shall be made for supplying air for combustion through special openings, one near the floor line and the other near the ceiling, each to be sized on the basis of one square inch or more of free area for each 1,000 BTU input per hour. See Figure 4.

When a room is of unusually tight construction and has a ventilating fan, which may be used for exhausting air to outdoors - or has a vented fireplace - it is recommended that combustion air be supplied to the enclosed room through intakes extending to the outside

of the building and terminating in downturned fittings, suitably arranged to prevent obstruction from snow or rain, and including a protecting screen not smaller than 1/4 inch mesh.

Figure 4



Ventilating Air Opening 1 sq. in. for each 1000 BTU per hour input. Illustration showing air openings necessary to supply air for combustion when heating appliance is installed in an enclosed room.

Water Source:

Water source for machine should be supplied by a 5/8" I.D. garden hose with a city water pressure of not less than 30 psi. If the water supply is inadequate, or if the garden hose is kinked, the machine will run very rough and the burner will not fire.

Water Connection:

Connect the high pressure hose by pulling the coupler collar back and then inserting it onto the discharge nipple. Secure it by pushing the collar forward.

Attach the wand into the trigger spray gun using teflon tape on the pipe threads to avoid leaks.

Inspection and Testing Gas Piping:

The building structure should not be weakened by installing the gas piping. The piping should not be supported by other piping, but should be firmly supported with gas hooks, straps, bands or hangers. Butt or lap welded pipe should not be run through or in an air duct.

Before turning gas under pressure into piping, all openings from which gas can escape should be closed. Immediately after turning on gas, the system should be checked for leaks. This can be done by watching the 1/2 cubic foot test dial and allowing 5 minutes to show any movement, or by soaping each pipe connection and watching for bubbles. If a leak is found, make the necessary repairs and repeat the above test.

Defective pipes or fittings should be replaced and not repaired. Never use a flame or fire in any form to locate gas leaks; use a soap solution.

After the piping and meter have been checked completely, purge the system of air. **DO NOT** bleed the air inside an enclosed room.

The appliance and its individual shut-off valve must be disconnected from the gas supply piping system during the pressure testing of that system at test pressure in excess of 1/2 psig or damage to the gas valve will occur.

Gas Pressure:

The ideal incoming gas pressure is 11 w.c.i. (water column inches –minimum 6 w.c.i., maximum 14 w.c.i. or 1/2 psig). The correct operating manifold pressure for natural gas is 3.5 w.c.i. The operating manifold pressure for propane gas is 11 w.c.i. The gas valve pressure regulator can be adjusted between 3 and 4 w.c.i. natural gas or 6 and 11 w.c.i. for propane.

If the desired input rating cannot be obtained within the above manifold pressure adjusting range, the next size larger or smaller burner orifice should be used.

WARNING & CHECK LIST

WARNING

- 1. Installation or servicing of gas appliances and controls must only be performed by qualified personnel. After installation or servicing, test manual valve, operating valves, pressure regulator, and automatic shut-off valve for proper operation.
- 2. Install in a suitable dry location. The machine must be located in an area properly protected from the weather.
- 3. Shut off gas and electricity before starting installation or service. Turn gas back on to test or operate.
- DO NOT connect pressure washer before pressure testing gas piping. Damage to gas valve may result (6 - 14 w.c.i. or 1/2 psig).
- 5. **DO NOT** insert any object other than suitable pipe or tubing in the inlet or outlet of the gas valve. Internal damage may occur and result in a hazardous condition.
- 6. **DO NOT** grip gas valve body with a pipe wrench or vise. Damage may result causing gas leakage. Use inlet or outlet bosses or a special body wrench.
- 7. **DO NOT** short the gas valve terminals.
- 8. **DO NOT** allow any flame to impinge on the regulator vent tubing if supplied. It may clog and cause gas valve malfunction.
- 9. **DO NOT** use the gas cock to adjust the gas flow.
- 10. In case main burner fails to shut off, turn off gas supply.
- 11. Keep all combustible materials away from gas appliances. **DO NOT** allow lint or dust to collect in burner area.
- 12. Dials must only be operated by hand. Never use pliers, wrenches or other tools to turn dials.
- Leak test with a soap solution after installation or service with the main burner on. Coat pipe and tubing joints, gaskets, etc. Bubbles indicate leaks.

14. If the machine is installed in an enclosed room, care should be taken to ensure that an adequate supply of air is available for combustion and ventilation (1 sq. inch per 1000 BTU).

CHECK LIST BEFORE STARTING:

	YES	NO
Has gas supply been inspected by an authorized contractor to meet local codes?		
Is machine protected from downdraft and excessive wind?		
Is machine shielded from moisture or water spray?		
Is the voltage correct and are the circuit breaker and supply cord adequate according to specifications and serial plate notation?		
Is the machine electrically grounded?		
Is there ample water supply?		
Have all flammable liquids or gases been removed from installation location?		
Is there adequate gas supply for the BTU rating of the burner?		
Is incoming gas supply pressure between 6 - 14 water column inches or 1/2 PSIG?		
Has the proper gas regulator been installed for pressure and volume?		
Is the machine properly vented to allow adequate air flow?		
Are the propane tanks large enough, according to rating to prevent freezing?		
Have gas lines been checked for gas leaks?		
Have gas lines been checked with local codes?		
Have all operators using this machine been instructed properly & have they read the manual?		
Has the machine been installed according to operator's manual instructions?		

CAUTION: If "NO" has been checked on any of the above questions, do not operate the machine.

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING

If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. This appliance has an electronic ignition system. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

FOR YOUR SAFETY

"WHAT TO DO IF YOU SMELL GAS"

- Do not try to light any appliance.
- Do not touch any electrical switch, do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to turn the gas control. Never use tools. If the knob will not push in or turn by hand, don't try to repair it; call a qualified service technician. Forced or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.



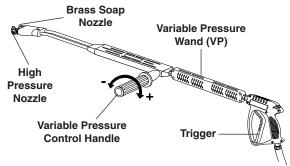
HAS ELECTRONIC SPARK IGNITION. DO

NOT ATTEMPT TO LIGHT MANUALLY. CAUTION: This machine is equipped with an electronic ignition system. Lighting of the pilot is accomplished through electronic spark ignition. Do not attempt to light the appliance manually as a burn injury or electrical shock may result.

OPERATION INSTRUCTIONS



- 1. **STOP!** Read operator's manual before operating this machine. Failure to read operation and warning instructions may result in personal injury or property damage.
- 2. Turn all switches off.
- 3. Review installation instructions.
- 4. Connect water supply hose to the inlet connector and turn water on. Check for water leaks and tighten as needed.
- 5. Turn on the main gas supply and turn the gas valve control knob into the "ON" position .
- Close the steam knob and detergent valve by turning clockwise and setting the temperature control knob between 200°- 225°F.
- 7. Before installing nozzle, turn on machine allowing water to run from the end of the wand until clear.
- 8. Attach the desired high pressure nozzle into the wand quick coupler by pulling the coupler collar back and inserting the nozzle. Secure nozzle by pushing the coupler collar forward.



Selection of high or low pressure is accompanied by turning the handle. Note: High pressure nozzle must be inserted at end of wand to obtain high pressure. To apply soap read operator's manual.

- 9. Turn the pump switch on to start the machine. When spray gun is closed a time delay feature will turn the machine off.
- 10. For hot water, push the burner switch to the ON position and pull the trigger on the spray gun. Sparking begins, the pilot gas ignites and then the ignitor/sensor will turn the main burner on. The pump switch must be turned ON before the burner and remote detergent switches will turn on.
- 11. To apply detergent, open the detergent valve counterclockwise making sure that the detergent pick up tube is in the detergent solution and not sucking air. With optional remotes, the detergent switch needs to be turned to the OFF position before turning to the ON position to activate the detergent solenoid.
- 12. When steam is needed, turn the steam knob counterclockwise. Then turn the temperature adjustment knob to 275°F.
- 13. **To Stop:** Turn the burner switch off and place the detergent pick-up tube into fresh water. Open the detergent valve and trigger spray gun allowing detergent lines to be flushed and the burner to cool. Otherwise, coil damage will result.
- 14. After water has cooled, turn pump switch to OFF position. If the machine is going to be off for an extended period of time, put the manual valve on the gas valve into the OFF position.
- 15. Turn the water off. Protect from freezing.

GENERAL CLEANING TECHNIQUES

CLEANING TECHNIQUES

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. Select and install desired high pressure nozzle. **NOTE:** You can also stop detergent from flowing by removing detergent siphon tube from bottle.

MAINTENANCE

PREVENTATIVE MAINTENANCE

- 1. Check to see that water pump is properly lubricated.
- 2. Follow Winterizing Procedures to prevent freeze damage to the 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 in your water system or de-scale as needed.
- 5. Do not allow acidic, caustic or abrasive fluids to be pumped through the system.
- 6. Always use high grade quality Landa cleaning products.
- 7. Never run pump dry for extended periods of time. Shut off timer will be set for two minutes.
- 8. Periodically delime coils per instructions.

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 this equipment **clean and dry**.

The areas around the Landa washer should be kept clean and free of combustible materials, gasoline and other flammable vapors and liquids.

The flow of combustion and ventilating air to the burner must not be blocked or obstructed in any manner.

Note: Pump damage may occur if ran in bypass longer than two minutes.

MAINTENANCE AND SERVICE

Spray Nozzles

Each machine is equipped with one or more spray nozzles, depending on model. Different spray nozzles are calibrated for each machine depending on the flow and pressure of that particular model. Spray nozzles vary in bore size and angle of spray. Popular spray angles are 0°, 15°, 25°, 40°. When ordering, please specify size and angle of nozzle. Nozzle size for each machine is located on the serial plate.

Unloader Valves:

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

Call your Local Dealer for Assistance. Tampering with the factory setting may cause personal injury and or property damage, and will void the manufacturer's warranty.

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 under freezing conditions.

During winter months, when temperatures drop below 32°F, protecting your machine against freezing is necessary. Siphoning a small amount of antifreeze into the system is recommended. This is done by pouring a 50:50 mix of antifreeze and water into the float tank and then siphoning 100% antifreeze through the detergent line with the pump on. If compressed air is available, an air fitting can be screwed into the float tank strainer fitting and by injecting compressed air, all water will be blown out of the system. The use of a draft diverter will prevent the wind chill factor from freezing the coil.

High Limit Hot Water Thermostat:

For safety, each machine is equipped with a high limit control switch. In the event the temperature of the water should exceed its operating temperature, the high limit control will turn the burner off until the water cools.

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 500 hour intervals. Oil level should be checked through use of the dipstick found on the top of the pump or by the red dot visible through the oil gauge window. Oil should be maintained at that level.

HEATING COIL

Condensation from Heating Coil

When cold water is being pumped into the water heater coil, and the burner is on, condensation will form on the coil and drip down into the burner compartment, giving the appearance of a leaking coil, particularly on cold humid days.

To Check Water Heater Coil for Leaks:

With the main burner "OFF" start machine and allow it to run a few minutes. Look into the burner compartment with a drop light or flashlight. If no leaks are visible, then water dripping from coil is from condensation.

MAINTENANCE & SERVICE

Deliming Coil:

In alkaline water areas, lime deposits can accumulate rapidly inside the coil pipes. This growth is increased by the extreme heat build up in the coil. The best preventative for liming conditions is to use high quality cleaning detergents. In areas where alkaline water is an extreme problem, periodic use of Landa Deliming Powder will remove lime and other deposits before coil becomes plugged. (See Deliming Instructions for use of Landa Deliming Powder.)

Periodic coil deliming is recommended.

- Fill a container with 4 gallons of water, then add 1 lb. of deliming powder. Mix thoroughly.
- 2. Remove nozzle from spray gun assembly and put spray gun into container.
- 3. Attach a short section (3-5 ft.) of garden hose to machine to siphon solution from an elevated container or add mixture to the float tank. Turn pump switch on allowing solution to be pumped through coil and back into the container. Solution should be allowed to circulate 2-4 hours.
- 4. After circulating solution flush entire system with fresh water. Reinstall nozzle in spray gun.

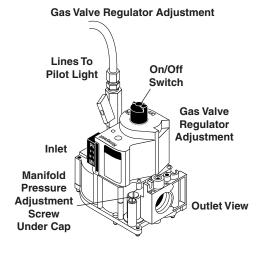
GAS VALVE REGULATOR ADJUSTMENT

Adjustment of the built-in regulator isn't normally necessary, since it is preset at the factory. However, field adjustment may be accomplished as follows:

- 1. Attach manometer at pressure tap port.
- 2. Remove regulator adjustment screw cap.
- 3. With a small screwdriver, rotate the adjustment screw clockwise to increase or counterclockwise to decrease gas pressure.
- 4. Replace regulator adjustment screw cap (see Figure 5).

Figure 5

16



Pressure Relief Valve

Each machine is equipped with a relief valve to relieve pressure in the system when higher than normal operating pressures are encountered. If operating pressure of machine is found to be normal and relief valve continues to leak, repair or replace the valve. *CAUTION: Relief valve can become obstructed by deposits and must be unscrewed at least once per year to allow discharge.*

PROPANE GAS

General Safety Precautions

Have a qualified gas service person assist in any gas burner installation or service. Few maintenance people or mechanics are knowledgeable in gas controls or related safety practices. Propane gas is heavier than air; unburned propane gas will gravitate to the floor rather than rise out of the stack. Hence, adequate floor space and good ventilation are especially important with propane systems.

Gas Pressure Requirements

All propane fired machines operate on vapor propane fuel only. They are designed to operate at a pressure of 11 w.c.i. (between 1/3 and 1/2 of one psi), and are often operated at even higher pressures when extra heat is needed.

Exterior regulators are needed to control the system. Propane bottles are not included with the machine. A high pressure regulator should be installed on the propane bottle and a low pressure regulator attached to the pressure washer.

Propane Cylinder Capacity

An important consideration with propane systems is the capacity of the supply cylinder relative to the needs of the burner. The burner operates on propane as a vapor gas. As gas is used from the propane cylinder, the liquid in the cylinder boils to maintain vapor gas pressure. This boiling process cools the liquid, and in a heavy, continuous-demand situation, the liquid temperature can fall to the point at which it cannot provide vapor gas as rapidly as is needed. In this case, it may be necessary to warm the propane cylinder by directing a warm spray, not over 120°F, on the cold cylinder or by manifolding two propane bottles together to increase total vaporization capacity. It is recommended that a minimum 100 lb. vapor propane bottle be used on the machine, depending on the length of running time desired.

MAINTENANCE & SERVICE

BURNER FEATURES

Operated Automatic Valve

This machine is equipped with an Intermittent Pilot Ignition System. This system is designed to eliminate the need for a constant burning pilot. Lighting of the pilot is accomplished through electronic spark ignition each time the burner and flow switch call for heat. The pilot is not burning when there is no call for heat. Do not attempt to light the appliance manually as a burn injury or electrical shock may result. The pilot light will remain on and the main gas valve is turned off when the spray gun is closed.

Care of Main Burner

Due to condensation from heater coils dripping down on the burners, scale build-up may occur in the burner jet orifices.

1. TO REMOVE BURNER MANIFOLD FROM WA-TER HEATER COIL:

Turn off the gas to the main burner by turning the knob to the "OFF" position on the gas valve and the main gas supply.

Disconnect the pilot and ignition lines from the gas valve. Disconnect union in main burner line below thermostat. Slide burner manifold out through shell opening.

2. TO CLEAN BURNER JETS:

Select proper size drill for type gas involved. Use pin vise to hold drill and ream out each jet orifice. *CAUTION: Do not ream out orifices to a larger size.*

If the water heater will be exposed to freezing weather, an anti-freeze solution should be circulated through the coil by whatever means are available for the particular system the water heater is used on.

To Adjust Pressure Regulator

Adjustment of the pressure regulator is not normally necessary since it is preset at the factory. However, field adjustment may be accomplished as follows:

- 1. Manometer attachment may be accomplished at the pressure tap plug.
- 2. Remove regulator adjustment screw cap (see Figure 5, page 14).
- 3. With small screwdriver, rotate adjustment screw clockwise to increase, or counterclockwise to decrease pressure.
- 4. Replace regulator adjustment screw cap.

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 Landa dealer for maintenance. Regular preventative maintenance will add many hours to the life of your pressure washer. Perform maintenance more often under severe conditions.

MAINTENANCE SCHEDULE		
	Inspect Oil level da	Oil level daily
Pump Oil	Change	After first 50 hours, then every 500 hours or annually
Check and Tigh	ten Belts	Every 3 months
Remove Burner	Soot	Annually
Burner Adjustm	ent/Cleaning	Annually
Clean Burner N	ozzles	Annually
Descale Coil		Annually (More often if required)
Replace High P	ressure Nozzle	Every 6 months
Replace Quick (Couplers	Annually
Clean Water Sc	reen/Filter	Weekly
Replace HP Ho	se	Annually (If there are any signs of wear)
Grease Motor		Every 10,000 hours

OIL CHANGE RECORD

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

TROUBLESHOOTING - BURNER

TROUBLESHOOTING - BURNER		
PROBLEM	POSSIBLE CAUSE	SOLUTION
FLOW & BURNER SWITCH ON; NO SPARK, NO PILOT GAS	A. No main powerB. Faulty transformerC. Faulty burner & flow switchD. Faulty ignition control unit	With power switch on, open trigger on spray gun and set your test meter to the 24 volt scale. Probe terminals 24V and 24V(GND). If you do not read 24 volts, the problem is not the ignition system. Perform normal system checks of main power, transformer, thermostat and the limit control. If you do read 24 volts at TH and GND, the problem is in the ignition system. Check for loose or defective wiring. If wiring is good, replace the ignition control unit.
HAVE SPARK,	Main gas supply turned off	Set test meter to 24 volt scale.
NO PILOT GAS FLOW		1. Be sure main gas valve (gas cock or selector arm) is turned on.
		2. With gas on and system sparking, probe terminals PV and 24V(GND). If pilot gas does not flow with 24 volts at these terminals, replace gas valve.
		3. Probe terminals PV and MV/PV. If 24 volts not present, replace ignition control box.
HAVE PILOT GAS,	A. Defective ignitor/sensor and	Set test meter to ohm scale.
NO SPARK	or its wiring	1. Disconnect the wire from the IGN terminal on the ignition control unit.
	B. Faulty ignition control unit	2. Touch one meter probe to the tip of the ignitor/ sensor rod in the pilot. Touch the other probe to the quick connect at the other end of ignitor/ sensor wire.
		3. If you have continuity from the tip of the ignitor/ sensor rod to the connector and no spark, replace the ignition control unit.
		4. If you do not have continuity through wire and the ignitor/sensor, check for a loose wire connection in the wire. Repair as needed.
		5. Check to see if spark shorts to burner ring through a cut in the ignitor wire.

TROUBLESHOOTING - BURNER

PROBLEM	POSSIBLE CAUSE	SOLUTION
HAVE PILOT FLAME, MAIN BURNER WILL	Faulty main valve coil in the gas valve	Set test meter to 24 volt scale.
NOT TURN ON	Faulty ignitor/sensor and/or its wiring	With pilot flame on ignitor/sensor, probe terminals MV and MV/PV on the ignition control unit. If you read 24 volts here, but not at the gas valve, there is a loose wiring connection. Repair or replace as needed.
	Ground wire not attached to machine chassis	If you do read 24 volts at MV and MV/PV and the pilot flame is impinging on the ignitor/sensor rod, the problems may be:
	Faulty ignition control unit	a. Faulty ignitor/sensor and/or its wiring.
		b. Faulty ignition control unit.
		Set test meter to the ohm scale. Turn burner switch off.
		Check continuity through the green ground wire and its connections.
		Reconnect the ignitor/sensor wire and the ground wire.
		Turn burner switch on. With the pilot burning and the flame on the ignitor/sensor rod, the main burner should turn on. If it does not, replace the ignition control unit.
SHORT-CYCLING OF MAIN BURNER. MAIN BURNER TURNS OFF BEFORE THE BURNER SWITCH OR FLOW SWITCH IS TURNED OFF	Draft condition pulls flame away from ignitor/sensor rod.	Check the thermostat by bypassing at terminals P1 & 1.
		Set thermostat high. With main burner on, observe the pilot flame impingement on the ignitor/sensor.
	Faulty thermostat or water temperature is too high	If pilot flame is small and draft condition pulls flame from ignitor sensor rod, the burner will turn off and then on again. a. Adjust pilot flame higher or clean pilot oriface. b. Bend ignitor/sensor rod closer to pilot flame.
		If flame impingement on the ignitor/sensor is stable and the system short-cycles, check the limit switch.
		Set test meter to 110 volt scale; a. When the system cycles off, probe the switch terminals of the limit switch. b. If you read 24V accross the switch terminals the limit switch is open. Replace the limit switch.
		A pilot flame set too high will also cause burner to short cycle. Pilot flame lifts over ignitor/sensor.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
LOW OPERATING	Faulty pressure gauge	Install new gauge.
PRESSURE	Insufficient water supply	Use larger garden hose; clean filter washer 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.
	Faulty or misadjusted unloader valve (where applicable)	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 (where applicable)	Rebuild or replace as needed.
	Detergent metering valve left open sucking air, or faulty metering valve	Close and/or replace metering valve.
	Slow motor RPM	Check incoming voltage.
LOW WATER	Improper size of gas lines	See pages 7-8 for sizing of gas lines.
TEMPERATURE	Low gas pressure	Increase gas pressure to machine.
	Improper pressure regulator	Specify BTU, building gas pressure and 11 w.c.i. to machine for correct sizing of regulator.
	Low gas valve pressure	Increase gas pressure as described on page 14.
	Soot buildup on coils not allowing heat transfer	Clean coils.
	Improper burner nozzle	See exploded view parts list.

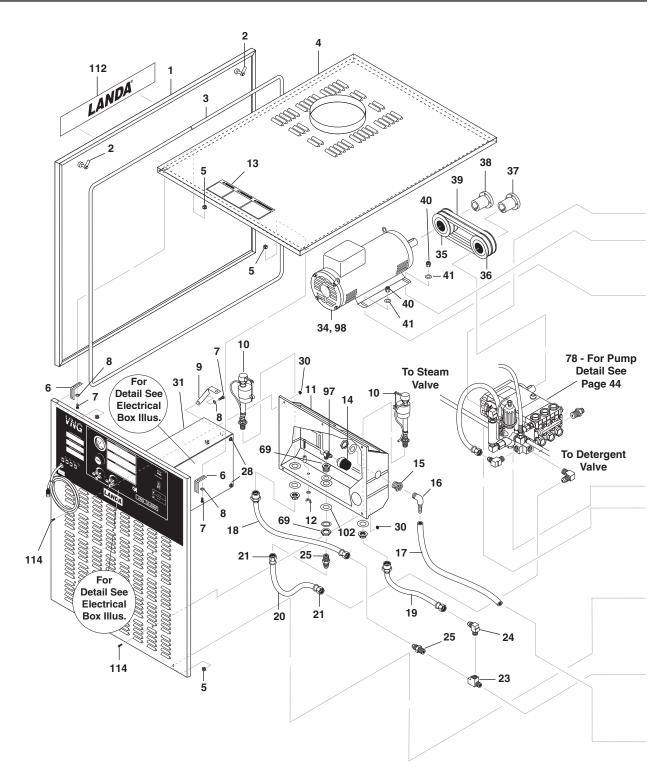
TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
WATER TEMPERATURE	Incoming water to machine warm or hot	Lower incoming water temperature.
ТОО НОТ	Gas pressure too high	Call local gas company.
	Detergent line sucking air	Tighten all clamps. Check detergent lines for holes.
	Defective high limit switch	Replace.
	Incorrect burner nozzle size	See exploded view parts list.
	Insufficient water supplied	Check water G.P.M. to machine.
	Restricted water flow	Check nozzle for obstruction, proper size.
DETERGENT NOT	Air leak	Tighten all clamps.Check detergent lines for holes.
DRAWING	Detergent metering valve packing not tight or packing worn	Tighten nut. Replace valve or packing.
	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.
	Restriction behind float tank screen removed	Install restriction.
	Hole in detergent line(s)	Repair hole.
	Strainer basket plugged	Remove and clean.
	Connections on selector valve loose	Put teflon tape on all pipe connections.
	Detergent solenoid not opening (where applicable)	Check flow switch, replace detergent solenoid.
PUMP RUNNING	Pump sucking air	Check water supply and possibility of air seepage.
NORMALLY BUT	Valves sticking	Check and clean or replace if necessary.
PRESSURE LOW	Unloader valve seat faulty	Check and replace if necessary.
	Nozzle incorrectly sized	Check and replace if necessary (see serial plate for proper size).
	Worn piston packing	Check and replace if necessary.

TROUBLESHOOTING

	TROUBLESHO	DOTING
PROBLEM	POSSIBLE CAUSE	SOLUTION Check and replace if necessary. Check and replace if necessary.
FLUCTUATING	Valves worn	Check and replace if necessary.
PRESSURE	Blockage in valve	
	Pump sucking air	Check water supply and air seepage at joints in suction line. Check and replace if necessary.
	Worn piston packing	Check and replace if necessary.
PUMP NOISY	Air in suction line	Check water supply and connections on
	Broken or weak inlet or discharge valve springs	suction line. Check and replace if necessary. Check and clean if necessary. Check and replace if necessary. Check and change oil twice as often.
	Excessive matter in valves	Check and clean if necessary.
	Worn bearings	Check and replace if necessary.
PRESENCE OF	Oil seal worn	Check and replace if necessary.
WATER IN OIL	High humidity in air	Check and change oil twice as often.
WATER DRIPPING	Piston packing worn	Check and replace if necessary.
FROM UNDER PUMP	O-ring plunger retainer worn	Check and replace if necessary. Check and replace if necessary.
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.
RELIEF VALVE LEAKS WATER	Relief valves defective	Replace or repair.

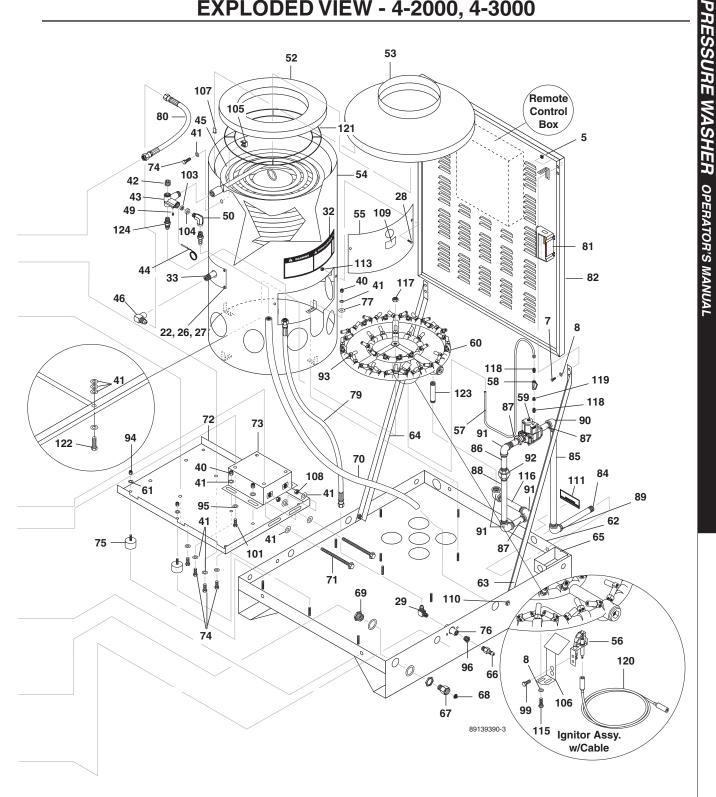
EXPLODED VIEW - 4-2000, 4-3000



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OPERATOR'S MANUAL PRESSURE WASHER

EXPLODED VIEW - 4-2000, 4-3000



4-2000, 4-3000 EXPLODED VIEW PARTS LIST

		,	
ITEM	PART NO.	DESCRIPTION	QTY
1	8.912-539.0	Panel, Side VNG-S	2
2	8.719-066.0	Latch, Vise Action	4
3	9.802-072.0	Trim, w/Sponge	26.5 ft
4	8.912-536.0	Panel, Top VNG-S	1
5	9.802-793.0	Nut, Cage, 1/4" x 16 Gauge	26
6	8.912-528.0	L-Bracket, VNG	4
7	9.802-700.0	Bolt, 1/4" x 3/4" NC HH	21
8	9.802-802.0	Washer, 1/4" Flat SAE	23
9	8.912-527.0	Brace, VNG Electrical Box	1
10	9.802-185.0	Valve, Float Tank, Vertical	2
11	9.802-084.0	Tank, Plastic, Universal Float	
12	9.802-106.0	Plug, Float Tank	1
13	9.800-033.0	Label, Warning, Hot Water	1
14	8.707-061.0	Strainer, 1/2" Basket	1
15	9.802-052.0	Bulkhead, 3/4" Polypro	1
16	9.802-050.0	Adapter, 3/4" x 3/4"	
10	3.002-030.0	MT x Insert, 90°	1
17	9.802-261.0	Hose, 3/4" Push-on	2.5 ft.
18	9.802-257.0	Inlet Hose, 30", Water Supply	/ 1
19	8.711-775.0	Inlet Hose, 13", Water Supply	
20	9.802-259.0	Hose, 1/2" Push-on	1.5 ft.
21	9.802-151.0	Swivel, 1/2" JIC Fem,	
		Push-on	2
22	9.802-798.0	Screw, Tek, #10 x 1/2"	4
23	8.706-860.0	Tee, 1/2" Street	1
24	9.802-131.0	Elbow, 1/2" JIC x 1/2" Pipe 90°	1
25	9.802-128.0	Nipple, 1/2" JIC x 1/2"	2
26	8.933-009.0	Gasket, Burner Plate	1
27	9.803-132.0	Plate, Insulation Retainer	1
28	9.802-764.0	Screw, 10/32" x 3/4" HEX	6
29	9.802-040.0	Elbow, 1/2" JIC x 1/2" 90°	1
30	9.802-695.0	Nut, 10/32" KEPS	6
31	9.802-969.0	Box, Electrical, VNG	1
32	9.800-031.0	Label, Pilot Light Warning	1
33	9.802-014.0	Nipple, 1/2" x 3" Galv. Pipe	1
34	Motor, See Spe	cifications Pages	
35		ee Specifications Pages	
36	-	See Specifications Pages	
37	-	, See Specifications Pages	
38		, See Specifications Pages	
39	-	ifications Pages	
40	8.725-395.0	Nut, 3/8" ESNA	12
41	8.725-394.0	Washer, 3/8" Flat, SAE	36
42	8.706-248.0	Plug, 3/8", Counter Sunk	1
43	9.149-003.0	Discharge Manifold	
44	8.750-095.0	Thermostat, 302°	1
	8.750-096.0	(Knob)	1
		8 013-030	0

45 9.803-135.0 Coil, Dura 20" Dia, Sch 80 1 46 9.802-043.0 Elbow, 1/2", 90°, Female, JIC 1 47 9.802-159.0 Connector, 1/4" 1 48 8.918-421.0 Hose, 1/4" MPT 1 48 8.918-421.0 Screw 10-24 x 1/4" 1 50 8.706-207.0 Elbow, 3/8" STR, 90° Steel25 1 51 8.707-019.0 Hose Barb, 1/2" Barb x 3/8" MPT, Push-On 1 52 8.930-140.0 Insulation, Top Head, 20" 1 53 9.802-976.0 Top, Burner Wrap, 20" 1 54 8.917-568.0 Wrap, Outer Assy, 20" 1 55 9.802-976.0 Cover, Burner Access, 20" Coil 1 56 9.802-910.0 Pilot, Natural Gas Pilot 1 57 9.802-910.0 Valve, Gas VR8304 1 9.802-910.0 Valve, Gas VR8304 1 9.802-178.0 Valve, Gas VR8304 1 9.802-616.0 Valve, Gas VR8304 1 9.803-616.0 Burner Ring As	ITEM	PART NO.	DESCRIPTION	QTY
Female, JIC1479.802-159.0Connector, 1/4" Tube x 1/4" MPT1488.918-421.0Hose, 1/4" x 36" Gauge1499.196-012.0Screw 10-24 x 1/4"1508.706-207.0Elbow, 3/8" STR, 90° Steel251518.707-019.0Hose Barb, 1/2" Barb x 3/8" MPT, Push-On1528.930-140.0Insulation, Top Head, 20"1539.802-976.0Top, Burner Wrap, 20"1548.917-568.0Wrap, Outer Assy, 20"1559.802-975.0Cover, Burner Access, 20" Coil1569.803-610.0Pilot, Natural Gas Pilot1579.802-911.0Tubing, Aluminum36"589.802-178.0Valve, 1/4" Jomar, T-91LP, Ball1599.803-616.0Valve, Gas VR830419.803-616.0Valve, Gas VR830419.803-616.0Burner Ring Assy, X44, w /#63 Jets1608.718-05.0Burner Ring Assy, X44, w /#63 Jets1618.718-050.0Base, VNG, Small1628.912-534.0Base, VNG, Small1638.912-541.0Brace, Left Side, VNG-S1648.912-541.0Brace, Left Side, VNG-S1659.802-436.0 \triangle Cord, Service 10/3 (4-2A,G)6 ft.9.802-425.0 \triangle Cord, Service 10/3 (4-2A,G)6 ft.9.802-437.0 \triangle Cord, Service 10/4 (4-2B, C, F, H;)6 ft.9.802-425.0 \triangle Cord, Service 10	45	9.803-135.0	Coil, Dura 20" Dia, Sch 80	1
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51 8.707-019.0 Hose Barb, 1/2" Barb x 3/8" MPT, Push-On 1 52 8.930-140.0 Insulation, Top Head, 20" 1 53 9.802-976.0 Top, Burner Wrap, 20" 1 54 8.917-568.0 Wrap, Outer Assy, 20" 1 55 9.802-975.0 Cover, Burner Access, 20" Coil 1 56 9.803-610.0 Pilot, Natural Gas Pilot 1 57 9.802-911.0 Tubing, Aluminum 36" 58 9.802-178.0 Valve, 1/4" Jornar, T-91LP, Ball 1 59 9.803-616.0 Valve, Gas VR8304 1 9.803-616.0 Valve, Gas VR8304 1 9.803-616.0 Valve, Conversion Kit) 1 60 8.718-060.0 Burner Ring Assy, X44, w /#63 Jets (LP Option) 1 61 8.718-060.0 Burner Ring Assy, X44, w /#63 Jets (LP Option) 1 61 8.718-960.0 Washer, 5/16" Flat, SAE 6 62 8.912-534.0 Base, VNG, Small 1 63 8.912-540.0 Brace, Left Side, VNG-S 1 64 8.912-540.0 Brace, Right Side VNG-S	49	9.196-012.0	Screw 10-24 x 1/4"	1
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	53	9.802-976.0	Top, Burner Wrap, 20"	1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	54	8.917-568.0	Wrap, Outer Assy, 20"	1
57 9.802-911.0 Tubing, Aluminum 36" 58 9.802-178.0 Valve, 1/4" Jomar, T-91LP, Ball 1 59 9.803-616.0 Valve, Gas VR8304 1 9.803-618.0 \triangle LPG Regulator Kit (LP Gas Valve Conversion Kit) 1 60 8.718-055.0 Burner Ring Assy, X44, w /#54 Jets 1 8.718-060.0 Burner Ring Assy, X44, w /#63 Jets (LP Option) 1 61 8.718-980.0 Washer, 5/16" Flat, SAE 6 62 8.912-541.0 Brace, Left Side, VNG-S 1 63 8.912-541.0 Brace, Right Side VNG-S 1 64 8.912-540.0 Brace, Right Side VNG-S 1 65 9.802-484.0 Box, Junction 3 Hole, 3/4" 1 9.802-425.0 \triangle Cord, Service 10/3 (4-3A,G) 6 ft. 9.802-437.0 \triangle Cord, Service 10/4 (4-3B, C, H) 6 ft. 9.802-437.0 \triangle Cord, Service 10/4 (4-2B, C, F, H;) 6 ft. 9.802-429.0 \triangle Cord, Service, 12/4 (4-2B, C, F, H;) 6 ft. 9.802-429.0 \triangle Cord, Service, 12/4 (4-2B, C, F, H;) 6 ft. 9.802-483.0 \triangle Cover, 2" x 4", Metal	55	9.802-975.0		1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	56	9.803-610.0	Pilot, Natural Gas Pilot	1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	57	9.802-911.0	Tubing, Aluminum	36"
9.803-618.0 \blacktriangle LPG Regulator Kit (LP Gas Valve Conversion Kit) 60 8.718-055.0 Burner Ring Assy, X44, w /#54 Jets 8.718-060.0 Burner Ring Assy, X44, w /#63 Jets (LP Option) 61 8.718-980.0 Washer, 5/16" Flat, SAE 62 8.912-534.0 Base, VNG, Small 1 63 8.912-541.0 64 8.912-540.0 Brace, Left Side, VNG-S 1 9.802-484.0 Box, Junction 3 Hole, 3/4" 9.802-484.0 Box, Junction 3 Hole, 3/4" 1 9.802-436.0 \checkmark Cord, Service 8/3 (4-3A,G) 6 ft. 9.802-437.0 \checkmark Cord, Service 10/3 (4-2A,G) 6 ft. 9.802-437.0 \land Cord, Service 10/4 (4-2B, C, F, H;) 6 ft. 9.802-429.0 \land Cord, Service, 12/4 (4-2B, C, F, H;) 6 ft. 9.802-429.0 \land Cord, Service, 12/4 (4-2B, C, F, H;) 6 ft. 9.802-429.0 \land Cord, Service, 12/4 (4-2B, C, F, H;) 6 ft. 9.802-429.0 \land Cord, Service, 12/4 (4-2B, C, F, H;) 6 ft. 9.802-520.0 \land Strain Relief, 3/4" 1 65 9.802-520.0 \land Strain Relief, 3/4" 1 9.802-171.0	58	9.802-178.0		1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	59	9.803-616.0	Valve, Gas VR8304	1
w /#54 Jets18.718-060.0Burner Ring Assy, X44, w /#63 Jets (LP Option)1618.718-980.0Washer, 5/16" Flat, SAE6628.912-534.0Base, VNG, Small1638.912-541.0Brace, Left Side, VNG-S1648.912-540.0Brace, Right Side VNG-S1659.802-484.0Box, Junction 3 Hole, 3/4"19.802-425.0 \blacktriangle Cord, Service 8/3 (4-3A,G)6 ft.9.802-436.0 \checkmark Cord, Service 10/3 (4-2A,G)6 ft.9.802-437.0 \checkmark Cord, Service 10/4 (4-3B, C, H)6 ft.9.802-429.0 \bigstar Cord, Service, 12/4 (4-2B, C, F, H;)6 ft.9.802-429.0 \bigstar Cord, Service, 12/4 (4-2B, C, F, H;)6 ft.9.802-520.0 \blacktriangle Strain Relief, 3/4"19.802-520.0 \blacktriangle Strain Relief, 3/4"19.802-483.0 \checkmark Cover, 2" x 4", Metal1669.802-171.0Nipple, 3/4" x 3/8", NPT ST Male1679.802-146.0Swivel, 1/2" MP x 3/4" GHF1688.707-055.0Strainer, Inlet, Garden Hose1		9.803-618.0	u	1
w /#63 Jets (LP Option)1618.718-980.0Washer, 5/16" Flat, SAE6628.912-534.0Base, VNG, Small1638.912-541.0Brace, Left Side, VNG-S1648.912-540.0Brace, Right Side VNG-S1659.802-484.0Box, Junction 3 Hole, $3/4$ "19.802-425.0 \blacktriangle Cord, Service 8/3(4-3A,G)6 ft.9.802-436.0 \blacktriangle Cord, Service 10/3(4-2A,G)6 ft.9.802-437.0 \blacktriangle Cord, Service 10/4(4-3B, C, H)6 ft.9.802-429.0 \blacktriangle Cord, Service, 12/4(4-2B, C, F, H;)6 ft.9.802-429.0 \blacktriangle Screw, #14 x 3/4", Tek29.802-520.0 \blacktriangle Strain Relief, 3/4"1669.802-171.0Nipple, 3/4" x 3/8", NPT ST Male1679.802-146.0Swivel, 1/2" MP x 3/4" GHF1688.707-055.0Strainer, Inlet, Garden Hose1	60	8.718-055.0	÷ .	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		8.718-060.0		1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	61	8.718-980.0	Washer, 5/16" Flat, SAE	6
	62	8.912-534.0	Base, VNG, Small	1
65 $9.802-484.0$ Box, Junction 3 Hole, $3/4$ "1 $9.802-425.0$ \blacktriangle Cord, Service 8/3 (4-3A,G)6 ft. $9.802-436.0$ \checkmark Cord, Service 10/3 (4-2A,G)6 ft. $9.802-437.0$ \bigstar Cord, Service 10/4 (4-3B, C, H)6 ft. $9.802-429.0$ \bigstar Cord, Service, 12/4 (4-2B, C, F, H;)6 ft. $9.800-040.0$ \checkmark Label, Ground1 65 $8.718-945.0$ \bigstar Screw, #14 x 3/4", Tek2 $9.802-483.0$ \bigstar Cover, 2" x 4", Metal1 66 $9.802-171.0$ Nipple, 3/4" x 3/8", NPT ST Male1 67 $9.802-146.0$ Swivel, 1/2" MP x 3/4" GHF1 68 $8.707-055.0$ Strainer, Inlet, Garden Hose1	63	8.912-541.0	Brace, Left Side, VNG-S	1
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	64	8.912-540.0	Brace, Right Side VNG-S	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	65	9.802-484.0	Box, Junction 3 Hole, 3/4"	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		9.802-425.0		6 ft.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		9.802-436.0		6 ft.
(4-2B, C, F, H;) 6 ft. 9.800-040.0 ▲ Label, Ground 1 65 8.718-945.0 ▲ Screw, #14 x 3/4", Tek 2 9.802-520.0 ▲ Strain Relief, 3/4" 1 9.802-483.0 ▲ Cover, 2" x 4", Metal 1 66 9.802-171.0 Nipple, 3/4" x 3/8", NPT ST Male 1 67 9.802-146.0 Swivel, 1/2" MP x 3/4" GHF 1 68 8.707-055.0 Strainer, Inlet, Garden Hose 1		9.802-437.0		6 ft.
9.800-040.0 ▲ Label, Ground 1 65 8.718-945.0 ▲ Screw, #14 x 3/4", Tek 2 9.802-520.0 ▲ Strain Relief, 3/4" 1 9.802-483.0 ▲ Cover, 2" x 4", Metal 1 66 9.802-171.0 Nipple, 3/4" x 3/8", NPT ST Male 1 67 9.802-146.0 Swivel, 1/2" MP x 3/4" GHF 1 68 8.707-055.0 Strainer, Inlet, Garden Hose 1		9.802-429.0		6 ft.
Tek 2 9.802-520.0 ▲ Strain Relief, 3/4" 1 9.802-483.0 ▲ Cover, 2" x 4", Metal 1 66 9.802-171.0 Nipple, 3/4" x 3/8", NPT ST Male 1 67 9.802-146.0 Swivel, 1/2" MP x 3/4" GHF 1 68 8.707-055.0 Strainer, Inlet, Garden Hose 1		9.800-040.0		1
9.802-483.0 ▲ Cover, 2" x 4", Metal 1 66 9.802-171.0 Nipple, 3/4" x 3/8", NPT ST Male 1 67 9.802-146.0 Swivel, 1/2" MP x 3/4" GHF 1 68 8.707-055.0 Strainer, Inlet, Garden Hose 1	65	8.718-945.0		2
66 9.802-171.0 Nipple, 3/4" x 3/8", NPT ST Male 1 67 9.802-146.0 Swivel, 1/2" MP x 3/4" GHF 1 68 8.707-055.0 Strainer, Inlet, Garden Hose 1		9.802-520.0	▲ Strain Relief, 3/4"	1
NPT ST Male 1 67 9.802-146.0 Swivel, 1/2" MP x 3/4" GHF 1 68 8.707-055.0 Strainer, Inlet, Garden Hose 1		9.802-483.0	▲ Cover, 2" x 4", Metal	1
68 8.707-055.0 Strainer, Inlet, Garden Hose 1	66	9.802-171.0	•• •	1
	67	9.802-146.0	Swivel, 1/2" MP x 3/4" GHF	1
69 8.707-000.0 Connector, 1/2", Anchor 1	68	8.707-055.0	Strainer, Inlet, Garden Hose	1
	69	8.707-000.0	Connector, 1/2", Anchor	1

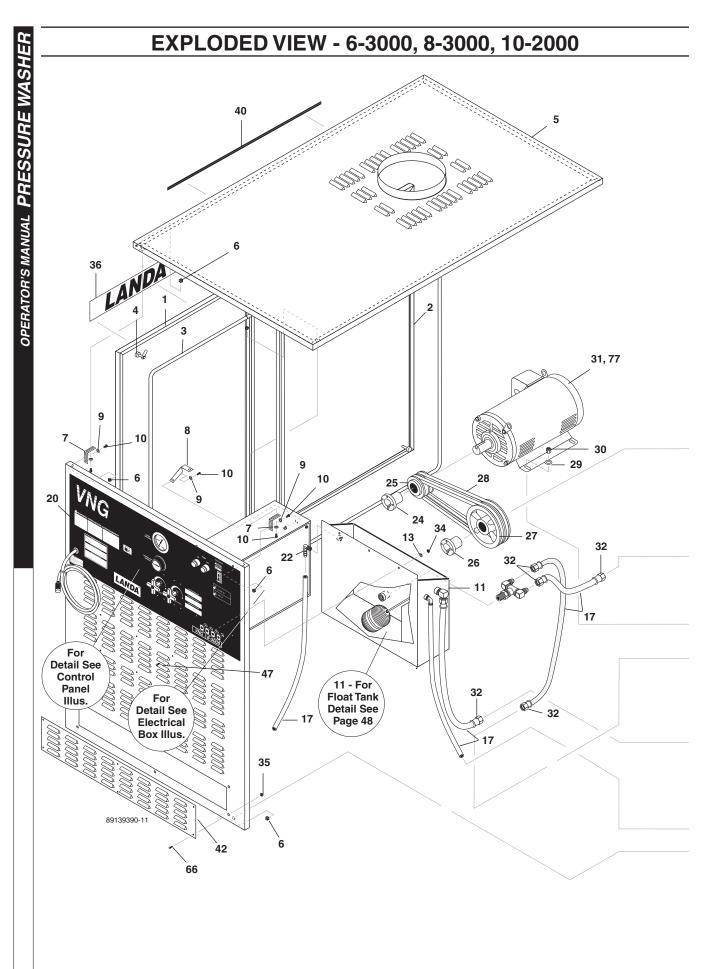
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4-2000, 4-3000 EXPLODED VIEW PARTS LIST

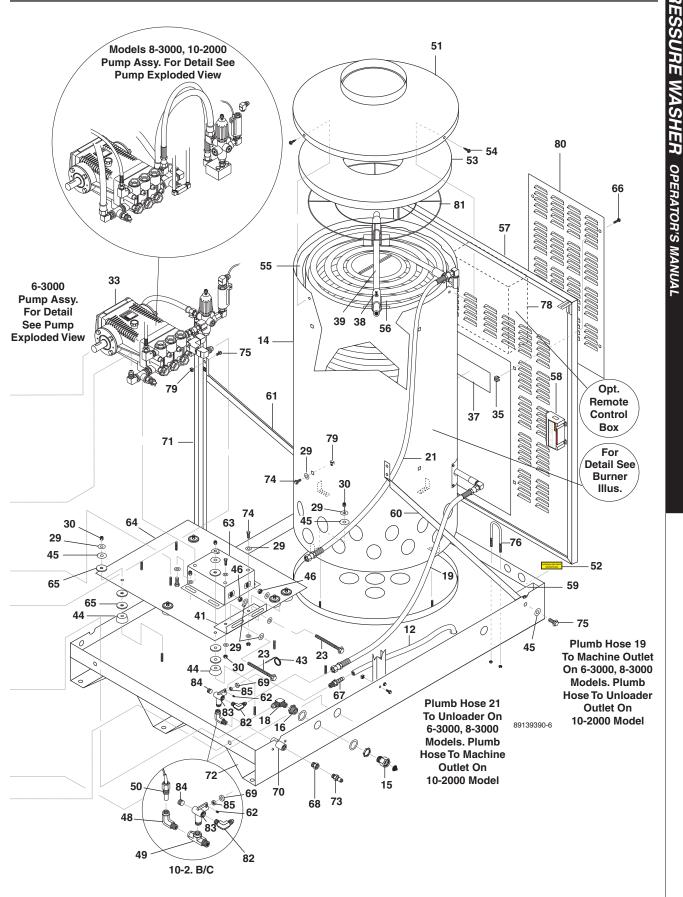
ITEM	PART NO.	DESCRIPTION	QTY
70	9.802-259.0	Hose, 1/2", Push-On	4 ft.
71	9.802-735.0	Bolt, 3/8" x 5-1/2" NC HH Tap	2
72	9.803-130.0	Platform, Motor 3/16"	1
73	9.803-131.0	Rail, Pump,	
		General Combo	1
74	9.802-720.0	Bolt, 3/8" x 1" NC HH	16
75	9.803-532.0	Isolator, 5/16" Fem x Fem	6
76	8.912-530.0	Discharge Assy	1
	9.804-003.0	Screw, 1/4" x 3/4"	2
	9.802-773.0	Nut, 1/4" ESNA	2
77	9.802-811.0	Washer, 5/16" Fender	4
78	Pump, See Sp	ecifications Pages	
79	8.918-211.0	Hose, 3/8" x 40", 2 Wire	1
80	8.918-424.0	Hose, 3/8" x 25", 2 Wire	1
81	9.803-613.0	Ignition, Electronic Control	1
	9.802-759.0	▲ Screw, 10/32" x 1/2"	4
	9.802-695.0	▲ Nut, 10/32" Keps	4
82	8.912-538.0	Panel, Burner End	1
83	8.716-269.0	Box, Metal, Junction, 12" x 12" x 4" Remote	1
84	8.706-022.0	Nipple, 1" x 6"	
		Black Pipe	1
85	8.719-959.0	Pipe, 1" NPT x 18" Black	1
86	9.802-018.0	Nipple, 3/4" x 3" Black Pipe	1
87	9.802-019.0	Nipple, 3/4" x 2" Pipe	3
88	9.802-020.0	Nipple, 3/4" x 6" Black, Pipe	1
89	9.802-026.0	Elbow, 1" Black Pipe, 90°	1
90	9.802-028.0	Elbow, 1" x 3/4" Reducing, 90°	1
91	9.802-027.0	Elbow, 3/4" Black, 90°	4
92	9.802-027.0	Union, 3/4" Black Pipe	
93	8.710-215.0	Gas Jet, NG, #52	44
30	8.717-377.0	Gas Jet, LP, #63	44
94	9.802-776.0	Nut, 5/16" ESNA	6
95	9.804-057.0	Washer	4
96	8.706-294.0		
97		Bushing, 1/2" x 3/8" Steel	1
	9.802-131.0	Elbow, 1/2" Street, Brass	
98	9.802-425.0	▲ Cord, Service, SO, 8/3 Coleman (4-3A, G)	4.25 ft.
	9.802-436.0	▲ Cord, Service, SEO, 10/3,Coleman (4-2A, G)	4.25 ft.
	9.802-437.0	▲ Cord, Service, SO, 10/4 Coleman (4-3B, C, H)	4.25 ft.
	9.802-429.0	▲ Cord, Service, SEO, 12/4 Coleman (4-2B,C,F,H;)	4.25 ft.

ITEM	PART NO.	DESCRIPTION	QTY
	9.802-520.0	Strain Relief, 3/4" (4-2)	1
	9.802-522.0	Strain Relief, 1" (4-3)	1
99	9.802-772.0	Screw, 10/32" x 1/4" Hex	2
100	9.802-016.0	Bushing, 1" x 3/4"	1
101	9.804-058.0	Bolt, Pump Mounting	4
102	8.719-039.0	Washer, 1-3/16" x 2-1/4"	1
103	8.725-944.0	Disk Rupture 8000#	1
104	9.184-030.0	Spacer, Rupture Disk	1
105	9.802-792.0	Nut, 3/8" x 12 Gauge, Cage	8
106	8.719-957.0	Splash Guard, Pilot Light	1
107	9.802-825.0	Clips, Retaining	4
108	9.802-789.0	Nut, 3/8" Hex, NC	2
109	9.800-028.0	Label, Pilot Light	1
110	9.802-767.0	Screw, 3/8" x 3/4" HH NC, Whiz	2
111	8.932-963.0	Label, Liquid Propane	1
	8.932-964.0	Label, Natural Gas	1
112	8.900-802.0	Label, VNG Landa Stripe	2
113	9.802-791.0	Nut, 10/32 x 16 Gauge,	
		Cage	2
114	9.802-759.0	Screw, 10/32" x 1/2" Black	2
115	8.718-582.0	Bolt 1/4" x 1/2" NC, HH	2
116	8.706-109.0	Nipple, 3/4" x 7", Black Pipe	1
117	9.802-781.0	Nut, 3/8" NC, Whiz -Loc	1
118	9.803-563.0	Connector, 1/4" Tube x 1/8" MPT	1
119	8.706-910.0	Bushing, 1/4" x 1/8" Bushing	1
120	9.803-562.0	Cable, Ignition, 48"	1
121	8.719-940.0	Ring, Insulation Retainer	1
122	9.802-769.0	Bolt, 3/8" x 1 3/4" NC, Whiz -Loc	1
123	8.706-087.0	Nipple, 3/4" x 4" Black Pipe	1
124	9.802-127.	Nipple, 1/2" x JIC x 3/8" MPT	1
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EXPLODED VIEW - 6-3000, 8-3000, 10-2000



6-3000, 8-3000, 10-2000 EXPLODED VIEW PARTS LIST

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OPERATOR'S MANUAL PRESSURE WASHE	ITEM	PART NO.	DESCRIPTION	QTY
M	1	8.912-517.0	Panel, Side, Small, VNG-L	2
Щ	2	8.912-515.0	Panel, Side, Large, VNG-L	2
5	3	9.802-072.0	Trim, 1/16", w/Sponge	55 ft.
Ŝ	4	8.719-066.0	Latch, Vise Action	8
Ш	5	8.912-510.0	Panel, Top, VNG-L	1
ц Ц	6	9.802-793.0	Nut, Cage, 1/4" x 16 Gauge	26
	7	8.912-528.0	L-Bracket, VNG	8
IUA	8	8.912-527.0	Brace, VNG, Electrical Box	1
IAN	9	9.802-802.0	Washer, 1/4", Flat, SAE	22
S N	10	9.802-700.0	Bolt, 1/4" x 3/4"	22
OR	11	8.903-590.0	Float Tank Assy	1
3AT	12	9.802-259.0	Hose, 1/2" Push-on	44"
PEF	13	9.804-082.0	Washer, 1/4" Black	3
0	14	8.912-553.0	Module, Wrap, Outer, Large	1
	15	9.802-146.0	Swivel, 1/2" MP x 3/4" GHF	1
	16	8.707-000.0	Connector, 1/2" Anchor	1
	17	9.802-261.0	Hose, 3/4" Push-On 1	5.75 ft.
	18	9.802-132.0	Elbow, 3/4" JIC x 1/2", 90°	1
	19	8.918-229.0	Hose, 1/2" x 54", 2 Wire	
			Pressure Loop (6-3, 8-3)	1
		8.918-227.0	Hose, 1/2" x 36", 2 Wire,	1
	20	9.800-033.0	Pressure Loop (10-2) Label, Warning, Hot Water	1
	20	8.918-229.0	Hose, 1/2" x 54", 2 Wire	
	21	0.910-229.0	Pressure Loop (6-3, 8-3)	1
		8.918-230.0	Hose, 1/2" x 70", 2 Wire	
			Pressure Loop (10-2)	1
	22	9.802-050.0	Adapter, 3/4" x 3/4" MT Insert, 90°	2
	23	9.802-735.0	Bolt, 3/8" x 5-1/2" NC HH	2
	24		See Specifications Pages	
	25		ee Specifications Pages	
	26		pecifications Pages	
	27		ee Specifications Pages	
	28		Specifications Pages	
	29	8.725-394.0	Washer, 3/8" Flat (6-3)	35
			(8-3, 10-2)	37
	30	8.725-395.0	Nut, 3/8" ESNA, NC (6-3) (8-3, 10-2)	21 23
	31	Motor, See Spe	cifications Pages	
	32	9.802-152.0	Swivel, 3/4" Female, Push-Or	ו 6
	33	Pump, See Spe	ecifications Pages	
	34	9.802-695.0	Nut, 10/32" Keps	3
	35	9.802-791.0	Nut, Cage, 10/32" x 16 Gauge	12
	36	8.900-802.0	Label, Landa Logo	2
	37	9.800-031.0	Label, Pilot Warning Light	1
	38	8.719-515.0	Bolt, 3/8" x 1-1/4" NC, Black	1
30	39	8.912-249.0	Crosshanger, 1", SCH 80	1

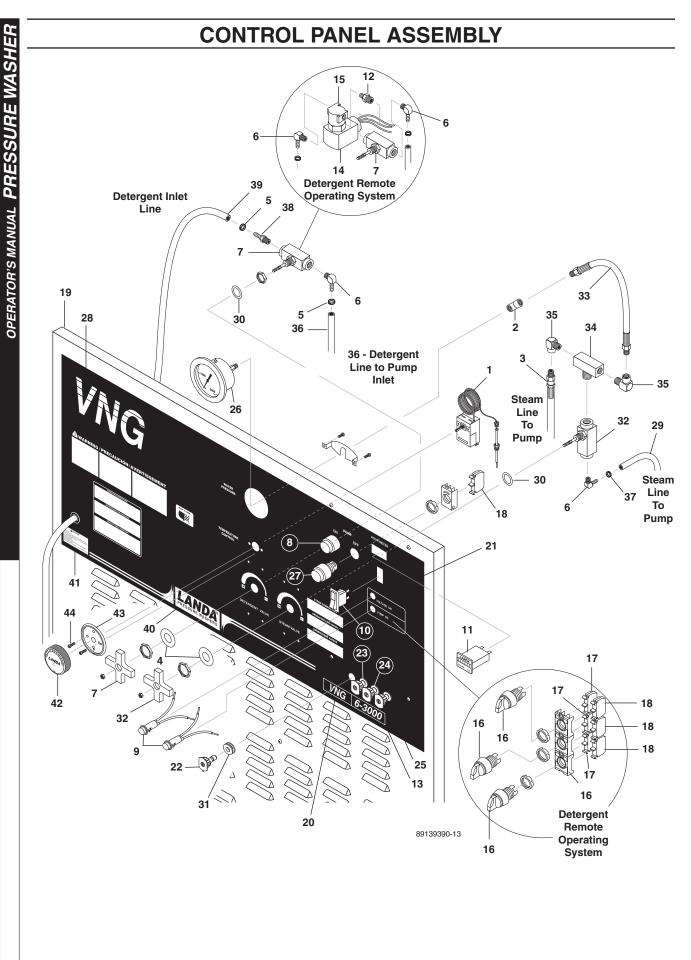
ITEM	PART NO.	DESCRIPTION	QTY
40	8.900-801.0	VNG, Landa Stripe	2
41	8.912-381.0	Retainer, Pump Take-Up	1
42	8.912-512.0	Panel, Pully Access	1
43	8.950-094.0	Thermostat, Adjustable, 302°F	1
44	9.802-066.0	Pad, Foot, Soft Rubber	7
45	9.802-811.0	Washer, 3/8" x 1-1/2" Fender	13
46	9.802-789.0	Nut, 3/8" Hex, NC	2
47	9.802-771.0	Screw, 10/32" x 3/4" BH SOC	3
48	8.706-208.0	Elbow, 1/2" Street	1
49	8.706-236.0	Tee, 1/2" Street 10-2B,10-2C	2
50	8.712-187.0	Switch, Snap, 275° Hi-Limit 10-2B, 10-2C	1
51	8.912-546.0	Top, Burner Wrap, 30" ENG/VNG Large	1
52	8.932-964.0	Label, Natural Gas	1
	8.932-963.0	Label, Liquid Propane	1
53	8.930-141.0	Insulation, Top Head 30"	1
54	9.802-799.0	Screw, Tek #14 x 1"	3
55	8.717-435.0	Insulation Blanket, Die-Cut	1
56	8.912-248.0	Coil, 25" Dia. VNG-L	1
57	8.912-513.0	Panel, Burner End, VNG-L	1
58	9.803-613.0	Ignition, Control Electric	1
	9.802-759.0	▲ Screw, 10/32" x 1/2"	4
	9.802-695.0	▲ Screw, 10/32" Keps	4
59	8.716-339.0	Box Junction (6-3B, 8-3B, H; 10-2B)	1
	9.802-484.0	Box, Junction, 3 Hole (6-3C, 8-3C, 10-2C,)	1
	9.802-520.0	▲ Strain Relief, 3/4" (6-3C, 8-3C, 10-2C,)	1
	9.802-522.0 9.803-975.0	▲ Strain Relief, 1" (6-3B, 8-3C,10-2B) ▲ Strain Relief, CG 100-105(1),
		1" Blk (4/4 COR) 8-3B/H, 10-2B	1
	8.718-945.0	▲ Screw, #14 x 3/4" Tex	2
	9.800-040.0	▲ Label, Ground	1
	9.802-437.0	▲ Cord, Service, 10/4 (6-3C; 8-3C; 10-2C)	8.5 ft.
59	9.802-483.0	▲ Cover, 2" x 4", Metal	1
	9.803-992.0	▲ Cord, Service, SO, 4/4 (8-3B, H; 10-2B)	8.5 ft.
	8.715-933.0	▲ Cord, Service, SO, 6/4 (6-3B,)	8.5 ft.
60	8.912-523.0	Brace, Right Side, VNG-L	1
61	8.912-521.0	Brace, Left Side, VNG-L	1
62	9.196-012.0	Screw, 10-24 x 1/4"	1

8.913-939.0 • LANDA VNG • Rev. 5/12

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ITEM	PART NO.	DESCRIPTION	QTY
63	9.803-131.0	Rail, Pump (6-3)	1
	8.912-215.0	Rail, Pump (8-3,10-2)	1
64	8.912-533.0	Power Platform, VNG-L	1
65	9.802-067.0	Bumper Pad, Engine	21
66	9.802-759.0	Screw, 10/32" x 1/2"	12
67	8.707-381.0	Push-on, 1/2" Barb x 3/8" MPT	1
68	8.706-294.0	Bushing, 1/2" x 3/8", Steel	1
69	9.184-030.0	Spacer, Rupture Disk	1
70	8.912-530.0	Coupling, Discharge, VHG	1
	9.804-003.0	▲ Screw, 1/4" x 3/4"	2
	9.802-773.0	▲ Nut, 1/4" ESNA	2
71	8.912-519.0	Vertical Brace, VNG-L	2
72	8.912-509.0	Base, VNG-L	1
73	9.802-171.0	Nipple, 3/8" x 3/8" NPT ST, Male	1
74	9.802-720.0	Bolt, 3/8" x 1", NC HH	10
75	9.802-767.0	Screw, 3/8" x 3/4", 12 Gauge	14
76	9.802-718.0	U-Bolt, 5/16" x 1" Pipe	1
77	9.802-437.0	▲ Cord, Service, SO , 10/4, (6-3C; 8-3C; 10-2C)	8.25 ft.
	9.803-992.0	▲ Cord, Service, SO, 4/4, (8-3B, H; 10-2B)	8.25 ft.
	8.715-933.0	▲ Cord, Service, SO, 6/4, (6-3B,)	8.25 ft.
	9.802-522.0	▲ Strain Relief, 1"	1
78	8.716-269.0	Box, Metal, 12" x 12" x 4" (Optional)	1
79	9.802-792.0	Nut, 3/8" x 12 Gauge, Cage	22
80	8.912-514.0	Cover, Burner Access	1
81	8.719-936.0	Ring, Insulation Retainer	1
82	9.802-039.0	Elbow, 1/2 JIC x 3/8 MPT	1
83	9.149-003.0	Manifold Coil Outlet	1
84	8.706-248.0	Plug, 3/8"	1
85	8.725-944.0	Disk, Rupture 8000 #	1
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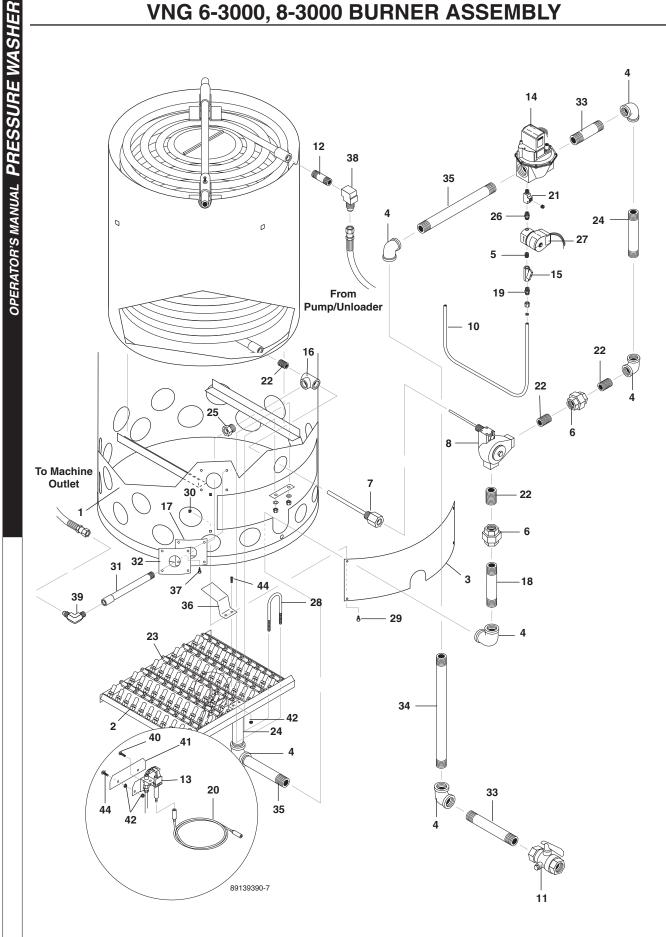


CONTROL PANEL PARTS LIST

ITEM	PART NO.	DESCRIPTION	ЭΤΥ
1	8.750-094.0	Thermostat, 302°	1
2	8.706-162.0	Elbow, 1/4" Female Pipe	1
3	8.918-419.0	Hose, 1/4" x 36", 2 Wire Ga. (S)	1
4	9.802-810.0	Washer, 5/8" Flat	2
	9.802-810.0		2
5	8.706-958.0	Clamp, Hose, UNI .4654 Hose Barb, 1/4" Barb, 90°	
6		, ,	3
7	8.707-317.0	Valve, Control Metering	1
8	8.751-916.0	Switch Green, Push Button	1
	8.751-910.0	Switch, 2 Position, (Auto Start Option)	1
9	9.802-455.0	Light, Indicator, Green, 125V	2
10	9.802-453.0	Switch, Curvette (Burner)	1
11	9.802-283.0	Meter, Hour	1
12	8.706-780.0	Nipple, 1/4" Hex	1
13	8.900-409.0	Label, 4-2000	1
	8.900-411.0	Label, 4-3000	1
	8.900-417.0	Label, 6-3000	1
	8.940-171.0	Label, 8-3000	1
	8.900-422.0	Label, 10-2000	1
14	9.802-533.0	Solenoid Coil, 120V (Remote)	1
15	9.802-532.0	Valve, Det. Less Coil (Remote)) 1
16	8.751-914.0	Switch, Selec (Remote)	3
17	8.751-913.0	Block, Con. N/O	
		Auto Start	1
		(Remote w/Auto Start) Time Delay	4 1
		(Remote w/Time Delay)	3
18	8.751-912.0	Block, Con. N/C	
		Time Delay	2
		(Remote w/Auto Start) (Remote w/Time Delay)	2 3
19	8.912-537.0	Panel, Control, VNG Small	1
-10	8.912-511.0	Panel, Control, VNG Large	1
20	8.900-261.0	Label, VNG Lexan	1
	8.900-260.0	Label, VLP Lexan	1
21	8.900-808.0	Label, VNG Control Panel	1
	8.900-790.0	Label, VNG Control Panel	•
	0.000 700.0	(Auto Start Option)	1
	8.900-804.0	Label, VNG Control Panel (Remote Option)	1
22	8.712-349.0	Nozzle, 0004.5 Red (4-3)	1
	8.712-357.0	Nozzle, 0005.5 Red (4-2)	1
	8.712-369.0	Nozzle, 0007 Red (6-3)	1

LP	ARTS L	IST	
ITEM	PART NO.	DESCRIPTION	QTY
	8.712-378.0 8.712-386.0	Nozzle, 0009 Red (8-3) Nozzle, 0015 Red (10-2)	1 1
23	8.712-358.0 8.712-350.0	Nozzle, 15055 Yellow (4-2) Nozzle, 1504.5 Yellow (4-3)	1
	8.712-370.0 8.712-379.0	Nozzle, 1502 Yellow (6) Nozzle, 1509 Yellow (8-3)	1
24	8.712-387.0 8.712-359.0 8.712-351.0	Nozzle, 1515 Yellow (10-2) Nozzle, 2505.5 Green (4-2) Nozzle, 2504.5 Green (4-3)	1 1 1
	8.712-331.0 8.712-371.0 8.712-380.0 8.712-388.0	Nozzle, 2504.5 Green (4-3) Nozzle, 2507 Green (6-3) Nozzle, 2509 Green (8-3) Nozzle, 2515 Green (10-2)	1 1 1
25	8.712-360.0 8.712-352.0 8.712-372.0	Nozzle, 4005.5 White (4-2) Nozzle, 4004.5 White (4-3) Nozzle, 4007 White (6-3)	1 1 1
	8.712-381.0 8.712-389.0	Nozzle, 4009 White (8-3) Nozzle, 4015 White (10-2)	1 1
26 27	8.712-150.0 8.751-915.0	Gauge, 0-5000 PSI Switch, Red, Push Button	1
28	8.900-791.0	Label, VNG Logo	1
29	9.802-254.0	Hose, 1/4", Push-On, (Small) (Large)	36" 40"
30	8.719-011.0	Washer, 5/8" Star	2
31	9.802-064.0	Grommet, Rubber, Nozzle	4
32	9.802-187.0	Valve, Metering Steam	1
33	8.918-180.0	Hose, 1/4" x 16", 2 Wire Gauge	1
34	8.706-213.0	Tee, 1/4" Branch Male, Steel	1
35 36	8.706-200.0 9.802-252.0	Elbow, 1/4" Street Tube, Braided Vinyl	2
		(Small) (Large)	36" 41"
37	8.709-069.0	Clamp, Screw	1
38 39	8.706-941.0 9.802-251.0	Hose Barb, 1/4" Barb x 1/4 Tube, 1/4" x 1/2", Clear Vinyl	1 10 ft.
	8.707-058.0	▲ Strainer, 1/4" Brass	1
40	8.900-832.0	Label, Landa Stripe	1
41	9.800-049.0	Label, Manuf. Cleaning Solution	1
42	8.750-096.0	Knob, Thermostat 302°	1
43	8.712-190.0	Bezel, Thermostat	1
44	8.718-779.0	Screw, 4 mm x 6 mm	2

VNG 6-3000, 8-3000 BURNER ASSEMBLY



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VNG 6-3000, 8-3000 BURNER PARTS LIST

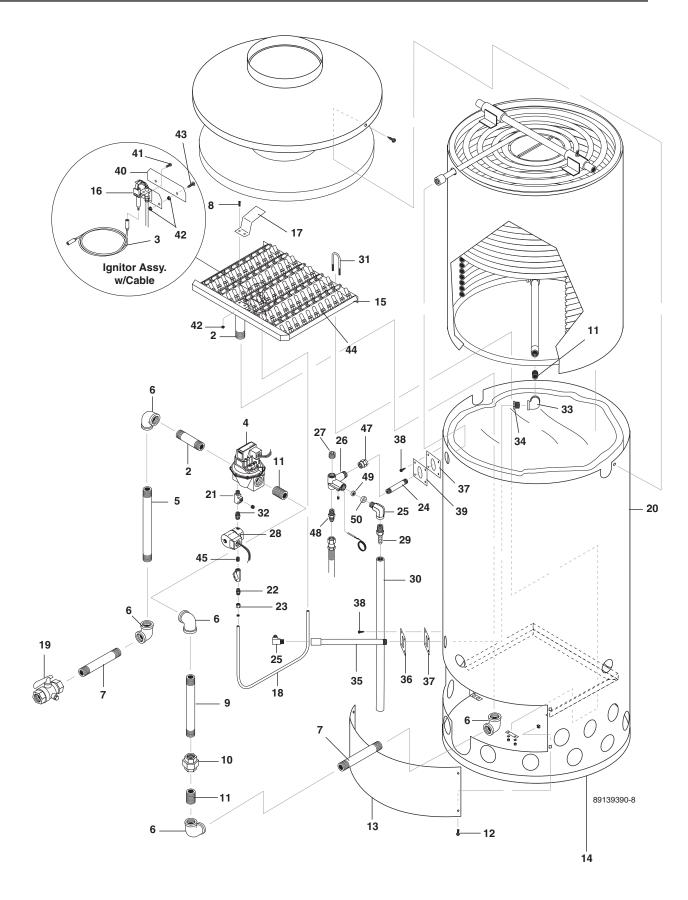
8.913-939.0 • LANDA VNG • Rev. 5/12

1 8.912-553.0 Module, Wrap, Outer, Large Coil 1 2 8.919-524.0 Burner Ring Assy, W/# 54 Jets 1 8.919-525.0 Burner Ring Assy, W/# 65 Jets (LP Option) 1 3 8.912-550.0 Door, Burner, Large 1 4 9.802-026.0 Elbow, 1", Black Pipe, 90° 6 5 8.706-777.0 Nipple, 1/4" Close 1 6 8.706-323.0 Union, 1", Black Pipe 2 7 8.718-088.0 Well, Pressure, Modulating Thermostat 1 8 8.718-087.0 Modulating Thermostat KimRay 1 9 9.802-027.0 Elbow, 3/4", Black, 90° 2 10 9.802-911.0 Tubing, Aluminum, 600 RL, 1/4" Dead Soft 40 11 8.718-062.0 Valve, Gas Shut-Off, 1" MPT 1 12 9.802-014.0 Nipple, 1/2" x 3", Galvanized 1 13 9.803-610.0 Pilot, Ignitor 1 14 8.718-048.0 Valve, Gas, V8943B1010/B (NG) 1 8.718-048.0 Valve, Gas, Valve,		PART NO.	DESCRIPTION	QTY
2 8.919-524.0 Burner Ring Assy, W/# 54 Jets 1 8.919-525.0 Burner Ring Assy, W/# 65 Jets (LP Option) 1 3 8.912-550.0 Door, Burner, Large 1 4 9.802-026.0 Elbow, 1", Black Pipe, 90° 6 5 8.706-777.0 Nipple, 1/4" Close 1 6 8.706-323.0 Union, 1", Black Pipe 2 7 8.718-088.0 Well, Pressure, Modulating Thermostat 1 8 8.718-087.0 Modulating Thermostat KimRay 1 9 9.802-027.0 Elbow, 3/4", Black, 90° 2 10 9.802-027.0 Elbow, 3/4", Black, 90° 2 11 8.718-062.0 Valve, Gas Shut-Off, 1" MPT 1 12 9.802-014.0 Nipple, 1/2" x 3", Galvanized 1 13 9.803-610.0 Pilot, Ignitor 1 14 8.718-050.0 Valve, Gas V8943B1010/B (NG) 1	1	8.912-553.0		
W/# 54 Jets 1 8.919-525.0 Burner Ring Assy, W/# 65 Jets (LP Option) 1 3 8.912-550.0 Door, Burner, Large 1 4 9.802-026.0 Elbow, 1", Black Pipe, 90° 6 5 8.706-777.0 Nipple, 1/4" Close 1 6 8.706-323.0 Union, 1", Black Pipe 2 7 8.718-088.0 Well, Pressure, Modulating Thermostat 1 8 8.718-087.0 Modulating Thermostat KimRay 1 9 9.802-027.0 Elbow, 3/4", Black, 90° 2 10 9.802-027.0 Elbow, 3/4", Black, 90° 2 11 8.718-062.0 Valve, Gas Shut-Off, 1" MPT 1 12 9.802-014.0 Nipple, 1/2" x 3", Galvanized 1 13 9.803-610.0 Pilot, Ignitor 1 14 8.718-050.0 Valve, Gas V8943B1010/B (NG) 1				1
W/# 65 Jets (LP Option) 1 3 8.912-550.0 Door, Burner, Large 1 4 9.802-026.0 Elbow, 1", Black Pipe, 90° 6 5 8.706-777.0 Nipple, 1/4" Close 1 6 8.706-323.0 Union, 1", Black Pipe 2 7 8.718-088.0 Well, Pressure, Modulating Thermostat 1 8 8.718-087.0 Modulating Thermostat KimRay 1 9 9.802-027.0 Elbow, 3/4", Black, 90° 2 10 9.802-911.0 Tubing, Aluminum, 600 RL, 1/4" Dead Soft 40 11 8.718-062.0 Valve, Gas Shut-Off, 1" MPT 1 12 9.802-014.0 Nipple, 1/2" x 3", Galvanized 1 13 9.803-610.0 Pilot, Ignitor 1 14 8.718-050.0 Valve, Gas V8943B1010/B (NG) 1	2	8.919-524.0		1
4 9.802-026.0 Elbow, 1", Black Pipe, 90° 6 5 8.706-777.0 Nipple, 1/4" Close 1 6 8.706-323.0 Union, 1", Black Pipe 2 7 8.718-088.0 Well, Pressure, Modulating Thermostat 1 8 8.718-087.0 Modulating Thermostat KimRay 1 9 9.802-027.0 Elbow, 3/4", Black, 90° 2 10 9.802-027.0 Elbow, 3/4", Black, 90° 2 11 8.718-062.0 Valve, Gas Shut-Off, 1" MPT 1 12 9.802-014.0 Nipple, 1/2" x 3", Galvanized 1 13 9.803-610.0 Pilot, Ignitor 1 14 8.718-050.0 Valve, Gas V8943B1010/B (NG) 1		8.919-525.0		1
5 8.706-777.0 Nipple, 1/4" Close 1 6 8.706-323.0 Union, 1", Black Pipe 2 7 8.718-088.0 Well, Pressure, Modulating Thermostat 1 8 8.718-087.0 Modulating Thermostat KimRay 1 9 9.802-027.0 Elbow, 3/4", Black, 90° 2 10 9.802-911.0 Tubing, Aluminum, 600 RL, 1/4" Dead Soft 40 11 8.718-062.0 Valve, Gas Shut-Off, 1" MPT 1 12 9.802-014.0 Nipple, 1/2" x 3", Galvanized 1 13 9.803-610.0 Pilot, Ignitor 1 14 8.718-050.0 Valve, Gas V8943B1010/B (NG) 1	3	8.912-550.0	Door, Burner, Large	1
6 8.706-323.0 Union, 1", Black Pipe 2 7 8.718-088.0 Well, Pressure, Modulating Thermostat 1 8 8.718-087.0 Modulating Thermostat KimRay 1 9 9.802-027.0 Elbow, 3/4", Black, 90° 2 10 9.802-911.0 Tubing, Aluminum, 600 RL, 1/4" Dead Soft 40 11 8.718-062.0 Valve, Gas Shut-Off, 1" MPT 1 12 9.802-014.0 Nipple, 1/2" x 3", Galvanized 1 13 9.803-610.0 Pilot, Ignitor 1 14 8.718-050.0 Valve, Gas V8943B1010/B (NG) 1	4	9.802-026.0	Elbow, 1", Black Pipe, 90°	6
7 8.718-088.0 Well, Pressure, Modulating Thermostat 1 8 8.718-087.0 Modulating Thermostat KimRay 1 9 9.802-027.0 Elbow, 3/4", Black, 90° 2 10 9.802-911.0 Tubing, Aluminum, 600 RL, 1/4" Dead Soft 40 11 8.718-062.0 Valve, Gas Shut-Off, 1" MPT 1 12 9.802-014.0 Nipple, 1/2" x 3", Galvanized 1 13 9.803-610.0 Pilot, Ignitor 1 14 8.718-050.0 Valve, Gas V8943B1010/B (NG) 1	5	8.706-777.0	Nipple, 1/4" Close	1
Modulating Thermostat 1 8 8.718-087.0 Modulating Thermostat KimRay 1 9 9.802-027.0 Elbow, 3/4", Black, 90° 2 10 9.802-911.0 Tubing, Aluminum, 600 RL, 1/4" Dead Soft 40 11 8.718-062.0 Valve, Gas Shut-Off, 1" MPT 1 12 9.802-014.0 Nipple, 1/2" x 3", Galvanized 1 13 9.803-610.0 Pilot, Ignitor 1 14 8.718-050.0 Valve, Gas V8943B1010/B (NG) 1	6	8.706-323.0	Union, 1", Black Pipe	2
Thermostat KimRay 1 9 9.802-027.0 Elbow, 3/4", Black, 90° 2 10 9.802-911.0 Tubing, Aluminum, 600 RL, 1/4" Dead Soft 40 11 8.718-062.0 Valve, Gas Shut-Off, 1" MPT 1 12 9.802-014.0 Nipple, 1/2" x 3", Galvanized 1 13 9.803-610.0 Pilot, Ignitor 1 14 8.718-050.0 Valve, Gas V8943B1010/B (NG) 1	7	8.718-088.0		1
10 9.802-911.0 Tubing, Aluminum, 600 RL, 1/4" Dead Soft 40 11 8.718-062.0 Valve, Gas Shut-Off, 1" MPT 1 12 9.802-014.0 Nipple, 1/2" x 3", Galvanized 1 13 9.803-610.0 Pilot, Ignitor 1 14 8.718-050.0 Valve, Gas V8943B1010/B (NG) 1	8	8.718-087.0	8	1
1/4" Dead Soft 40 11 8.718-062.0 Valve, Gas Shut-Off, 1" MPT 1 12 9.802-014.0 Nipple, 1/2" x 3", Galvanized 1 13 9.803-610.0 Pilot, Ignitor 1 14 8.718-050.0 Valve, Gas V8943B1010/B (NG) 1	9	9.802-027.0	Elbow, 3/4", Black, 90°	2
12 9.802-014.0 Nipple, 1/2" x 3", Galvanized 1 13 9.803-610.0 Pilot, Ignitor 1 14 8.718-050.0 Valve, Gas V8943B1010/B (NG) 1	10	9.802-911.0	0 ,	40"
13 9.803-610.0 Pilot, Ignitor 1 14 8.718-050.0 Valve, Gas V8943B1010/B (NG) 1	11	8.718-062.0	Valve, Gas Shut-Off, 1" MPT	1
14 8.718-050.0 Valve, Gas V8943B1010/B (NG) 1	12	9.802-014.0	Nipple, 1/2" x 3", Galvanized	1
V8943B1010/B (NG) 1	13	9.803-610.0	Pilot, Ignitor	1
8.718-048.0 Valve, Gas,	14	8.718-050.0		1
V8943C1018 (LP) 1		8.718-048.0	, ,	1
15 9.802-178.0 Valve, Ball, 1/4" Female x 1/4" Female 1	15	9.802-178.0		1
16 8.706-094.0 Tee, Black Steel, 3000 PSI 1	16	8.706-094.0	Tee, Black Steel, 3000 PSI	1
17 8.933-009.0 Gasket, Burner Plate 1	17	8.933-009.0	Gasket, Burner Plate	1
18 8.706-024.0 Nipple, 1" x 4" Black Pipe 1	18	8.706-024.0	Nipple, 1" x 4" Black Pipe	1
19 9.802-159.0 Connector, 1/4" Tube x 1/4" MPT 2	19	9.802-159.0	,	2
20 9.803-562.0 Cable, Ignitor, 48" 1	20	9.803-562.0	Cable, Ignitor, 48"	1
21 8.706-857.0 Tee, 1/8" Street 1	21	8.706-857.0	Tee, 1/8" Street	1

ITEM	PART NO.	DESCRIPTION	QTY
22	8.706-118.0	Nipple, 1" Close, 3500 PSI	3
23	8.710-216.0 8.710-218.0	Gas Jet, NG, #54 Gas Jet, LP, #65	98 98
24	8.706-019.0	Nipple, 1" x 5" Black Pipe	2
25	8.706-038.0	Bushing, 1" x 1/2" 3M F/S	1
26	8.706-878.0	Nipple, 1/4" Pipe x 1/8" Pipe	1
27	9.803-612.0	Solenoid, Pilot	1
28	9.802-719.0	U-Bolt, 5/16" x 3", Pipe	2
29	9.802-754.0	Bolt, 1/4" x 1/2" Whiz Loc	4
30	9.802-794.0	Nut, Cage, 1/4" x 12 Gauge	4
31	8.912-694.0	Extension, Outlet	1
32	9.803-132.0	Plate, Insulation Retainer	1
33	8.706-050.0	Nipple, 1" x 8" Black Pipe	2
34	8.719-959.0	Nipple, 1" x 18" Black Pipe	1
35	8.706-022.0	Nipple, 1" x 6" Black Pipe	1
36	9.802-972.0	Splash Guard, Pilot Light	1
37	9.802-798.0	Screw, #10 x 1/2" Tek Hex	4
38	9.802-043.0	Elbow, 1/2" JIC x 1/2" Female	1
39	9.802-040.0	Elbow, 1/2" JIC x 1/2" MPT	1
40	9.802-772.0	Screw, 10/32" x 1/4" Hex	2
41	8.912-739.0	Bracket, Pilot Access	1
42	9.802-695.0	Nut, 10/32", KEPS	6
43	9.802-764.0	Screw, 10/32" x 3/4", Hex	2
44	9.802-759.0	Screw, 10/32" x 1/2", Hex Black	4
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VNG-L 10-2000 BURNER ASSEMBLY



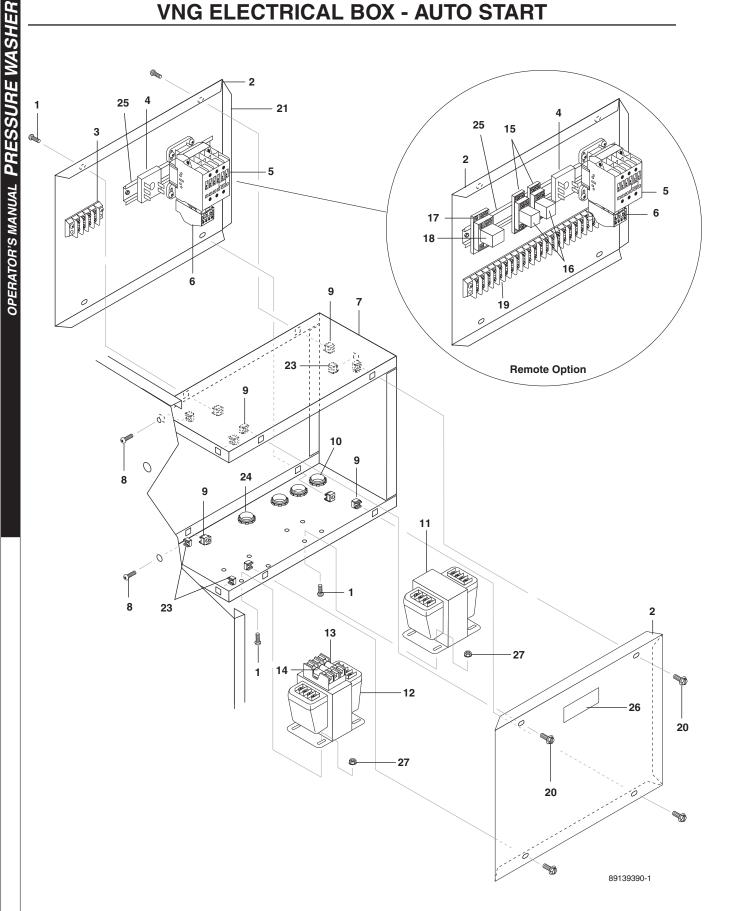
VNG-L 10-2000 BURNER PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-028.0	Elbow, 1" x 3/4" Reducing, Blk	2
2	8.706-019.0	Nipple, 1" x 5", Black Pipe	2
3	9.803-562.0	Cable, Ignitor, 48"	1
4	8.718-050.0	Valve, Gas, V8943B1010/B (NG)	1
	8.718-048.0	Valve, Gas, V8943C1018 (LP)	1
5	8.719-959.0	Pipe, 1" NPT x 18" Blk Sch.40	1
6	9.802-026.0	Elbow, 1", Black Pipe, 90°	5
7	8.706-050.0	Nipple, 1" x 8" Black Pipe	2
8	9.802-772.0	Screw, 10/32" x 1/4"	2
9	8.706-021.0	Pipe, 1" NPT x 11", Black Pipe, Sch. 40	1
10	8.706-323.0	Union, 1", Black Pipe	1
11	8.706-118.0	Nipple, 1", Close, 3500 PSI	2
12	9.802-754.0	Screw, 1/4" x 1/2" HH NC, Whiz Loc	4
13	8.912-550.0	Door, Burner, Large	1
14	9.802-794.0	Nut, Cage, 1/4" x 12 Gauge	4
15	8.919-524.0	Burner Assy, Lg Square W/#54 Jets (NG)	1
	8.919-525.0	Burner Assy, Lg Square W/#65 Jets (LP Option)	1
16	9.803-610.0	Pilot, Ignitor	1
17	9.802-972.0	Splash Guard, Pilot Light	1
18	9.802-911.0	Tubing, 1/4" Aluminum	40"
19	8.718-062.0	Valve, Gas, Shut-Off, 1" MPT	1
20	8.912-553.0	Wrap, Outer, 30" Large Coil	1
21	8.706-857.0	Tee, 1/8" Street	1
22	9.802-178.0	Valve, 1/4" Jomar T-91LP Ball	1
23	9.802-159.0	Connector Tube, 1/4" x 1/4" MPT	2
24	9.802-014.0	Nipple, 1/2" x 3" Galvanized	1
25	8.706-207.0	Elbow, 3/8" STR 90° Steel	1
26	9.149-003.0	Manifold, Coil Outlet Dischar	ge 1
27	8.706-248.0	Plug, 3/8" Counter Sunk, Alle	en 1
28	9.803-612.0	Solenoid, Pilot	1
29	8.707-019.0	Hose Barb, 1/2" Barb x 3/8" MPT	1
30	9.802-259.0	Hose, 1/2" Push-On	4.25 ft.

RNER PARTS LIST			
ITEM	PART NO.	DESCRIPTION	QTY
31	9.802-719.0	U-Bolt, 3/16" x 3" Pipe	2
32	8.706-878.0	Nipple, 1/4" Pipe x 1/8" Pipe	1
33	8.706-206.0	Elbow, 1/2" Black Pipe	1
34	8.706-038.0	Bushing, 1" x 1/2" 3M F/S	1
35	8.912-694.0	Extension, Outlet	1
36	9.803-132.0	Plate, Insulation Retainer	1
37	8.933-009.0	Gasket, Burner Plate	2
38	9.802-798.0	Screw, #10 x 1/2" Tek, Hex Head	16
39	8.912-520.0	Plate, Cover, NG, LM w/Hole	1
40	8.912-739.0	Bracket, Pilot Access	1
41	9.802-764.0	Screw, 10/32" x 3/4" Hex	2
42	9.802-695.0	Nut, 10/32" Keps	6
43	9.802-759.0	Screw , 10/32" x 1/2", Black	2
44	8.710-216.0 8.710-218.0	Gas Jet, NG, #54 Gas Jet, LP, #65	98 98
45	8.706-777.0	Nipple, 1/4" Close	1
46	8.912-522.0	▲ Plate Cover, NC, LM w/o Hole	1
47	8.706-141.0	Coupling, 1/2" Steel Pipe	1
48	9.802-127.0	Nipple, 1/2" JIC x 3/8" MPT Brass	1
49	8.725-944.0	Disk, Rupture, 8000	1
50	9.814-030.0	Spacer, Rupture Disk	1
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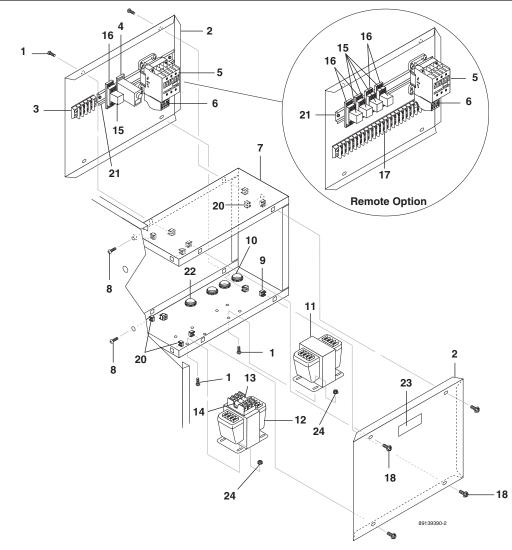
VNG ELECTRICAL BOX - AUTO START PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-759.0	Screw, 10/32" x 1/2"	
		BHSOC	15
2	9.802-970.0	Panel, Electrical Box, Side	2
3	9.802-491.0	Block, Terminal, 4 Pole	1
	9.802-749.0	▲ Screw, 8/32" x 3/4"	2
	9.802-785.0	▲ Nut, 8/32" Keps	2
4	9.802-472.0	Timer, Solid State 120V, 5-60 Min. Lockout	1
5	Contactor, See	Specifications Pages	
6	Overload Relay	y, See Specifications Pages	
7	9.802-969.0	Box, Electrical VNG	1
8	9.804-003.0	Screw, 1/4" x 3/4" BH SOC	4
9	9.802-791.0	Nut, Cage 10/32" x 16 Gauge	8
10	9.802-520.0	Strain Relief, 3/4" (4-2;4-3;6-3C,8-3C, 10-2C,) Remote Option	3
		(6-3B, 8-3B, H; 10-2B)	1
	9.802-522.0	Strain Relief, 1" (6-3B,)	2
	9.803-975.0	Strain Relief, CG 100-1050 1" Blk (4/4 COR)	_
		(8-3B, H; 10-2B)	2
11	Transformer, S	ee Specifications Pages	

ITEM	PART NO.	DESCRIPTION	QTY
12	Transformer, S	See Specifications Pages	
13	Primary Fuse,	See Specifications Pages	
14	Secondary Fu	se, See Spec's Pages	1
15	9.802-467.0	Base, Relay IDEC (Remote Option)	2
16	9.802-468.0	Relay, 120V, IDEC (Remote Option)	2
17	8.752-146.0	Relay, Socket Remote	1
18	8.752-141.0	Relay, Latch, Remote	1
19	9.802-493.0	Block, Terminal, 16 Pole, Remote	1
20	9.802-764.0	Screw, 10/32" x 3/4" Hex	4
21	9.802-762.0	▲ Screw, 10/32" x 1-1/4"	1
	9.802-695.0	▲ Nut, Keps, 10/32"	6
22	9.802-771.0	▲ Screw, 10/32" x 3/4"	1
23	9.802-793.0	Nut, Cage, 1/4" x 16 Gauge	5
24	9.802-520.0	Strain Relief, 3/4" (Remote Option)	1
26	9.800-016.0	Label, Power disconnect	1
27	9.802-695.0	Nut 10/32 Keps	8

▲ Not Shown

VNG ELECTRICAL BOX - TIME DELAY

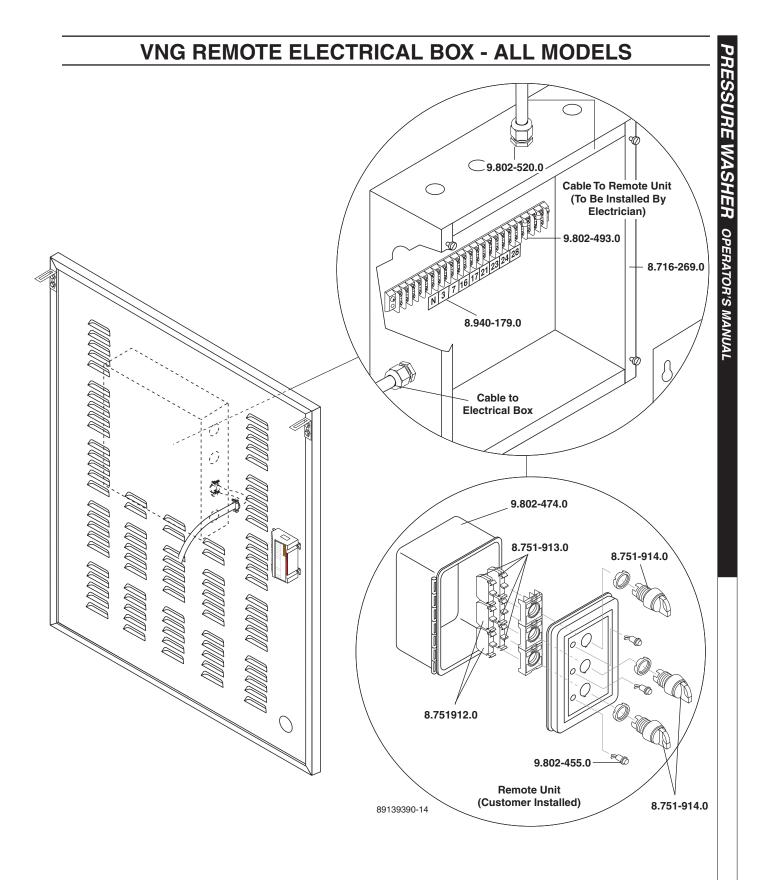


OPERATOR'S MANUAL PRESSURE WASHER

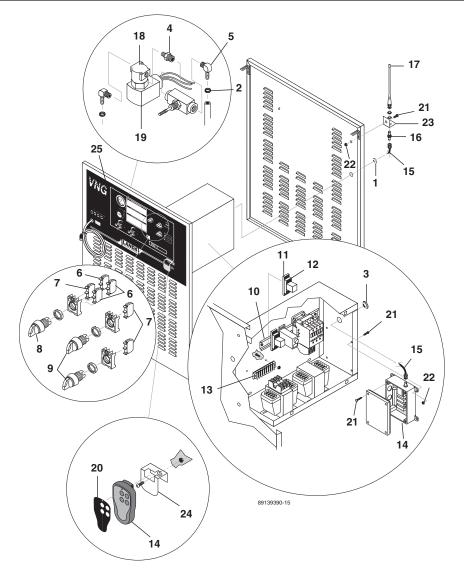
VNG ELECTRICAL BOX - TIME DELAY PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-759.0	Screw 10/32" x 1/2" BHSOC	15	14	Secondary Fu	se, See Specifications Pages	
2	9.802-970.0	Panel, Electrical Box, Side	2	15	9.802-467.0	Base, Relay IDEC	1
3	9.802-491.0	Block, Terminal, 4 Pole	1			(Remote Option)	4
	9.802-749.0	▲ Screw, 8/32" x 3/4" BHSO	C 2	16	9.802-468.0	Relay, 120V, IDEC	1
	9.803-676.0	▲ Nut, 8/32" ESNA	2			(Remote Option)	4
4	8.751-306.0	Timer, Multi Function 24V - 120/240V 5A	1	17	9.802-493.0	Block, Terminal, 16 Pole, (Remote Option)	1
5	Contrator Co		<u> </u>	18	9.802-764.0	Screw, 10/32" x 3/4" Hex	4
-		e Specifications Pages		19	9.802-771.0	▲ Screw, 10/32" x 3/4"	1
6		ay, See Specifications Pages			9.802-695.0	▲ Nut, Keps, 10/32"	6
7	9.802-969.0	Box, Electrical VNG	1	20	9.802-793.0	Nut, Cage, 1/4" x 16 Gauge	5
8	9.804-003.0	Screw, 1/4" x 3/4" BH SOC	4	21	9.802-457.0	Din Rail	7"
9	9.802-791.0	Nut, Cage, 10/32" x 16 Gaug	e 8	21	9.002-457.0	(Option)	, 12"
10	9.802-520.0	Strain Relief, 3/4" (Remote Option)	3 1	22	9.802-520.0	Strain Relief, 3/4" (Remote Option)	1
11	Transformer, S	See Specifications Pages		23	9.800-016.0	Label, Power disconnect	1
12	Transformer, S	See Specifications Pages		24	9.802-695.0	Nut, Keps, 10/32"	8
13	Primary Fuse	, See Specifications Pages				▲ Not Shown	-

8.913-939.0 • LANDA VNG • Rev. 5/12



VNG HANDHELD WIRELESS EXPLODED VIEW & PARTS LIST



ITEM	PART NO.	DESCRIPTION	QTY
1	8.706-755.0	Bushing, .875"	1
2	6.390-126.0	Clamp, Hose	2
3	9.802-104.0	Bushing, 3/4" Snap	1
4	8.706-777.0	Nipple, 1/4" Close	1
5	8.706-958.0	Hose Barb, 1/4" Barb x 1/4" Pipe, 90°	2
6	8.751-912.0	Block, Contact, N/C	3
7	8.751-913.0	Block, Contact, N/O	3
8	8.751-914.0	Switch, Selector	1
9	8.716-718.0	Switch, 2 Position	2
10	9.802-457.0	Din Rail, 35mm	6.5
11	9.802-467.0	Base, Relay, SH2B-05, IDEC	1
12	9.802-468.0	Relay, 120V, RH2B-UL-AC120	01
13	9.802-492.0	Block, Terminal, 8 Pole	1
14	8.716-442.0	Wireless, Transmitter-Receive 4 Relay	er 1
15	8.716-444.0	Cable Radio Remote, CC58C-5 Coaxial Cable	1

ITEM	PART NO.	DESCRIPTION	QTY
16	8.716-445.0	Connector, Radio Remote BNC Connection	1
17	8.716-446.0	Antenna, Radio Remote BNC Connection	1
18	9.802-532.0	Valve, Chem. Less Solenoid 04F20C2118AAF	1
19	9.802-533.0	Solenoid Coil, 120C AF4C05	1
20	8.940-008.0	Label, Land, Lancom Remote Control	1
21	9.802-749.0	Screw, 8/32" x 3/4" BHSOC	7
22	9.802-785.0	Nut, 8/32", KEPS	7
23	8.912-674.0	Bracket, Antenna Mount, Wireless Remote	1
24	8.912-675.0	Bracket, Trans, Wireless Rem	1
25	8.900-804.0	Label, VNG Cont. Panel w/Remote	1

OPERATOR'S MANUAL PRESSURE WASHER

VNG HANDHELD WIRELESS OPERATING INSTRUCTIONS

Wireless Remote Control Operation

Step 1: Pressure Washer Operation

Once the main circuit breaker power to the machine is turned on, the pump can be controlled either at the machine control panel or with the remote transmitter.

To remotely turn pump "ON", press transmitter button #1. To turn pump "OFF" press button #2. Pump can be turned off at the machine by turning the control panel pump switch to the "OFF" position.



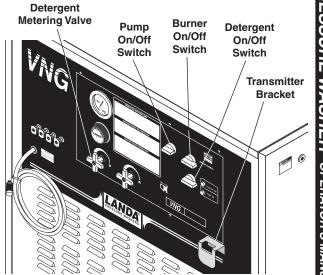
TRANSMITTER

Step 2: Burner Operation

To operate burner in remote mode turn control panel burner switch to the "ON" position. Note: Burner remote will only work when the machine control panel Burner switch is in the "ON position.

Remotely control burner by pressing transmitter button #3 to turn burner "OFF". Pressing button #3 again will turn burner "ON".

The control panel burner switch will be non-functional if burner is turned "OFF" remotely. To re-activate the control panel burner switch either press button 3 to turn burner "ON" or turn control panel pump switch "OFF".



Step 3: Detergent Operation

The machine has an electronic solenoid to operate detergent flow. To operate detergent in remote mode, adjust the detergent metering valve to the desired flow and turn control panel detergent switch to the "ON position. Note: Detergent remote will only work when the machine control panel detergent switch is in the "ON" position.

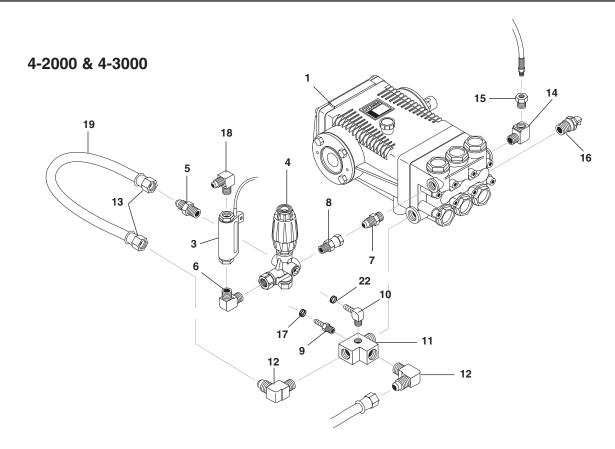
Remotely control detergent by pressing transmitter button #4 to turn detergent "OFF". Pressing button #4 again will turn detergent "ON".

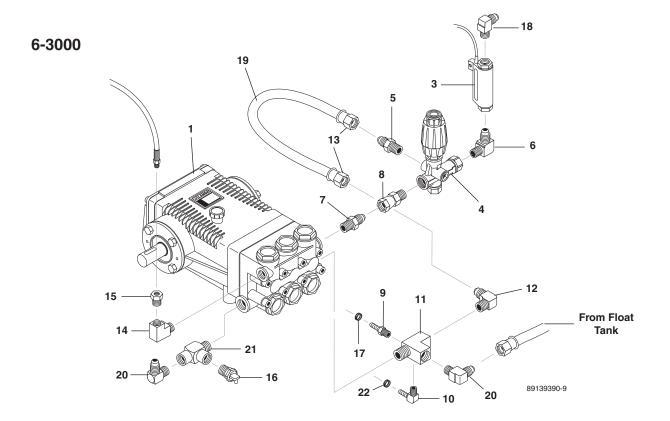
The control panel detergent switch will be non-functional if detergent is turned "OFF" remotely. To re-activate the control panel switch either press button #4 to turn detergent "ON" or turn control panels pump switch "OFF".

NOTE: The wireless remote option has Time Delay Shutdown installed and will shut down after 3-5 minutes of no use.

If machine times out while using remotely, press the pump "OFF" button to reset the timer. Press transmitter pump "ON" button to restart pump.

VNG 4-2000, 4-3000, 6-3000 PUMP ASSEMBLY





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OPERATOR'S MANUAL PRESSURE WASHER

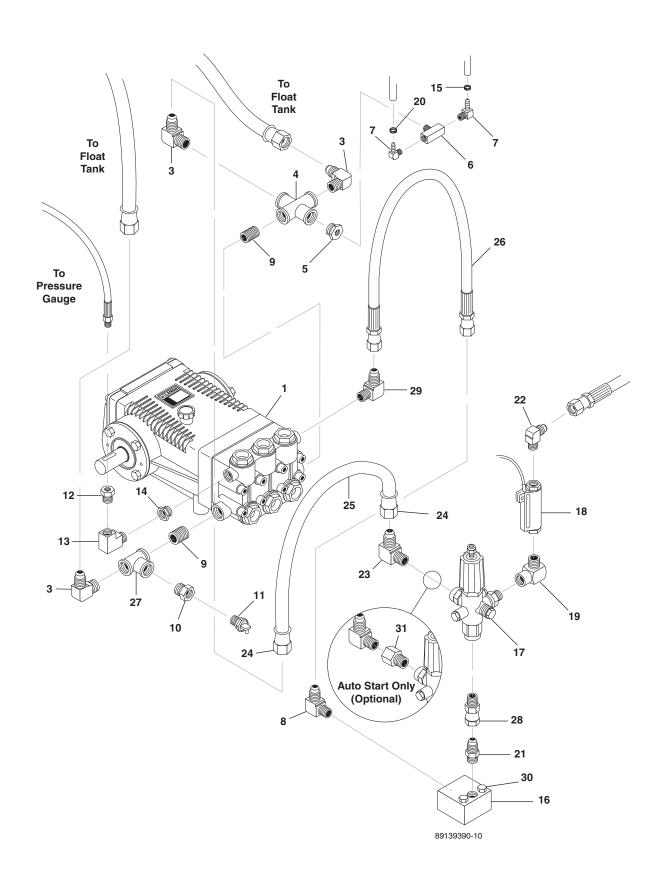
VNG 4-2000, 4-3000, 6-3000 PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	Pump, See Pa	rts Specifications Pages	
2	9.803-131.0	▲ Rail, Pump	1
3	8.933-006.0	Switch, Flow MV60, Yellow	1
4	8.750-299.0	Unloader, VRT3, 8 GPM @4500 PSI	1
	9.802-362.0	Unloader, PA 8 GPM@3650, w/Switch (Auto Start)	1
5	9.802-127.0	Nipple, 1/2" JIC x 3/8" Pipe	1
6	8.706-168.0	Elbow, 3/8", Male Pipe	1
7	9.802-036.0	Nipple, 1/2" JIC x 3/8" Pipe	1
	9.802-048.0	Swivel, 1/2" JIC Fem, 3/8" Male (Auto Start Option)	1
8	9.802-048.0	Swivel, 1/2" JIC Fem, 3/8" Male	1
	9.802-037.0	Nipple, 1/2" JIC, 3/8" Female (Auto Start Option)	1
9	8.706-940.0	Hose Barb, 1/4" Barb x 1/8" Male Pipe	1
10	8.706-955.0	Hose Barb, 1/4" x 1/8" 90°	1
11	9.803-050.0	Tee, 1/2" Street w/2 Holes	1
12	9.802-131.0	Elbow, 1/2" JIC x 1/2", 90° (6-3) (4-2, 4-3)	1 2
13	9.802-151.0	Swivel, 1/2" JIC Female	2
14	8.706-207.0	Elbow, 3/8" Street	1
15	8.706-297.0	Bushing, 3/8" x 1/4", Galv.	1
16	8.707-256.0	Pump Protector, 1/2" PTP	1
17	6.390-126.0	Clamp, Hose, .46 -, .54 ST	1
18	9.802-039.0	Elbow, 1/2" JIC x 3/8" Male	1
19	9.802-259.0	Hose, 1/2", Push On	1.25"
20	9.802-132.0	Elbow, 3/4" JIC x 1/2" (6-3)	2
21	8.706-860.0	Tees, 1/2" Street (6-3)	1
22	8.709-069.0	Clamp, Screw, #4	1
		▲ Not Shown	

PRESSURE WASHER OPERATOR'S MANUAL

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VNG 8-3000, 10-2000 PUMP ASSEMBLY

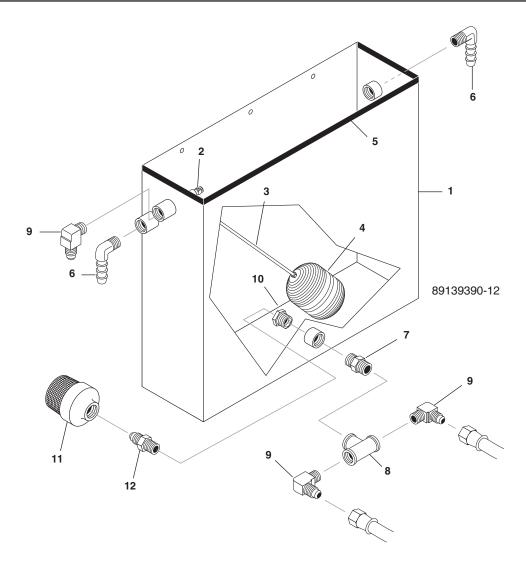


VNG 8-3000, 10-2000 PARTS LIST

ITEM	PART NO.	DESCRIPTION		
1	8.904-889.0	Pump, Landa LX8030/L (8-3)	1	
	8.904-891.0	Pump, Landa LX1025/L (10-2) 1	
2	8.912-215.0	▲ Rail, Pump Combo	1	
3	9.803-557.0	Elbow, 3/4" SAE x 3/4", 90°, Brass	3	
4	8.706-852.0	Cross, 3/4" Female Pipe	1	
5	8.706-923.0	Bushing, 3/4" x 1/4" Pipe	1	
6	8.706-854.0	Tee, 1/4" Branch, Male	1	
7	8.706-958.0	Hose Barb, 1/4" Barb x 1/4" Pipe, 90°	2	
8	9.802-039.0	Elbow, 1/2" JIC x 3/8" MPT (Auto Start Option)	1	
	9.802-039.0	Elbow, 1/2" JIC, 1/2" 90°	1	
9	8.706-799.0	Nipple, 3/4" Close	2	
10	8.706-925.0	Bushing, 3/4" x 1/2" Pipe	1	
11	8.707-256.0	Pump Protector, 1/2" PTP	1	
12	8.706-297.0	Bushing, 3/8" x 1/4", Galv.	1	
13	8.706-207.0	Elbow, 3/8" Street	1	
14	8.706-294.0	Bushing, 1/2" x 3/8"	1	
15	6.390-126.0	Clamp, Hose, .46 -, .54 ST	1	
16	9.802-870.0 9.802-869.0	Block, Unloader, 3/8" x 3/8", Steel (8-3 Auto Start Option) Block, Unloader, 1/2" x 1/2" x 1.75" Steel	1.25 1 1	
17	8.715-508.0 9.802-362.0	Unloader, VBXL 13 GPM, @ 3000 PSI (8-3, 10-2) Unloader, PA 8 GPM @ 3650 PSI VB8 w/Switch (8-3 Auto Start Option)	1	
18	8.933-006.0	Switch, Flow, MV60, Yellow	1	
19	9.802-024.0	Elbow, 3/8" x 1/2" Steel, Street	1	
	8.706-168.0	Elbow, 3/8" Male Pipe (Auto Start Option)	1	

000	PARTS	LIST	
ITEM	PART NO.	DESCRIPTION	QTY
20	8.709-069.0	Clamp, Screw, #4	1
21	9.802-038.0	Nipple, 1/2" x 1/2" JIC (8-3, 10-2)	1
	9.802-048.0	Swivel, 1/2" JIC Fem x 3/8" Male (8-3 Auto Start Option)	1
22	9.802-039.0	Elbow, 1/2" JIC, 3/8", 90°	1
23	9.802-132.0	Elbow, 3/4" JIC x 1/2", 90° (8-3, 10-2)	1
24	9.802-152.0	Swivel, 3/4" SAE Female, Push-On	2
25	9.802-261.0	Hose, 3/4" Push-On	2 ft.
26	8.918-225.0	Hose, 1/2" x 28", 2 Wire	1
27	8.706-846.0	Tee, 3/4" Female, Brass	1
28	9.802-037.0	Nipple, 1/2" JIC x 3/8" Fem (8-3 Auto Start Option)	1
	8.706-315.0	Swivel, 1/2" x 1/2" JIC Male (8-3, 10-2)	1
29	9.802-040.0	Elbow, 1/2" JIC x 1/2", 90°	1
30	9.802-730.0	Bolt, 3/8" x 2 1/2", GR5 Zinc	2
	8.725-394.0	▲ Washer, 3/8" Flat	2
	8.725-395.0	▲ Nut, 3/8" ESNA	2
31	8.706-992.0	Adapter,1/2" x 3/8" (8-3 Auto Start Option)	1
		▲ Not Shown	

VNGL FLOAT TANK EXPLODED VIEW

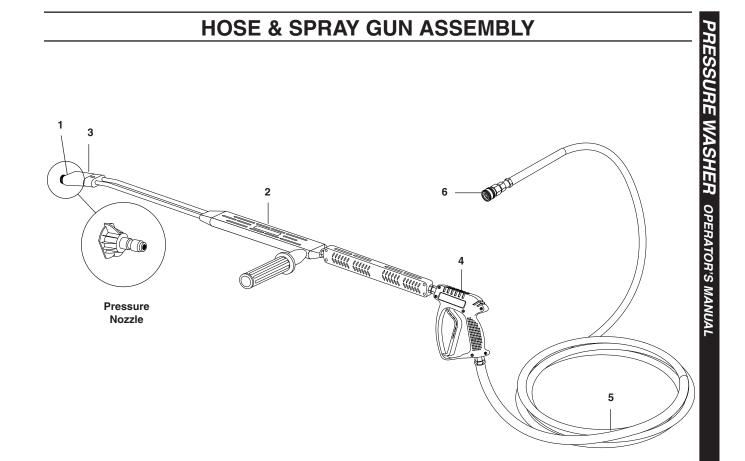


VNGL FLOAT TANK (89035900) PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	8.912-518.0	Assembly, Float Tank, S.S.	1
2	8.749-329.0	Valve, Float, 3/4"	1
3	8.707-025.0	Stem, 10" Float	1
4	8.706-512.0	Ball, Float, Black Plastic	1
5	9.802-071.0	Trim, 750 B2 x 1/16" Black	3.25 ft.
6	9.802-050.0	Adapter, 3/4" x 3/4" MT x Insert 90°	2

ITEM	PART NO.	DESCRIPTION	QTY
7	8.706-800.0	Nipple, 3/4" Hex, Brass	1
8	8.706-846.0	Tee, 3/4" Female Pipe	1
9	9.803-557.0	Elbow, 3/4" SAE x 3/4", 90°,Brass	3
10	8.706-925.0	Bushing, 3/4" x 1/2" Pipe	1
11	8.707-061.0	Strainer, 1/2" Basket	1
12	9.802-128.0	Nipple, 1/2" JIC x 1/2" Pipe	1

OPERATOR'S MANUAL PRESSURE WASHER



HOSE & SPRAY GUN ASSEMBLY PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-165.0 9.802-096.0	Coupler, 1/4", Male ▲ O-Ring, Small Coupler,	1	4	8.751-234.0	Gun, Landa, L1050, 5000 PSI, 10.4 GPM	1
		High Heat, 1/4"	1	5	8.739-072.0	Hose, 3/8" x 50', 2-Wire	
2	8.711-308.0 8.710-722.0	Wand, SS, V.P. Wand, AR (AL 344) w/Coupler Wand Only, SS.V.P. Wand,	1		8.739-401.0	Tuff-Skin (4-2, 4-3, 6-3) Hose, 1/2" x 50' 2-Wire Tuff-Flex (8-3, 10-2)	1 1
		AR (AL 344) AL83455VPKIT Repair Kit, AR SS Seat	1	6	9.802-166.0 9.802-100.0	Coupler, 3/8" Female ▲ O-Ring, Large, Coupler, High Heat, 3/8"	1
		(AL 334, 344)				▲ Not Shown	
3	9.802-286.0	Nozzle Only, 1/8"	1				

SPECIFICATIONS

PARTS SPECIFICATIONS: LANDA PUMP

Machine Model	Pump Model	Part #	Pulley	Pulley Part #	Bushing	Bushing Part #	Size	Voltage/PH	Motor Part #	Pulley	Pulley Part #	Bushing
4-20024A	LT5030	8.904-874.0	2AK84H	9.802-375.0	25mm	9.802-403.0	6 HP	230V/1PH	9.802-336.0	2AK41H	8.715-545.0	1-1/8"
4-20024B	LT5030	8.904-874.0	2AK84H	9.802-375.0	25mm	9.802-403.0	6 HP	230V/3PH	8.751-004.0	2AK41H	8.715-545.0	1-1/8"
4-20024C	LT5030	8.904-874.0	2AK84H	9.802-375.0	25mm	9.802-403.0	6 HP	460V/3PH	8.751-004.0	2AK41H	8.715-545.0	1-1/8"
<u>4-20024H</u>	LT5030	8.904-874.0	2AK84H	9.802-375.0	25mm	9.802-403.0	6 HP	208V/3PH	9.802-330.0	2AK41H	8.715-545.0	1-1/8"
4-30024A	LT5030	8.904-874.0	2BK80H	8.715-592.0	25mm	9.802-403.0	8 HP	230V/1PH	8.715-165.0	2BK34H	9.802-382.0	1-3/8"
4-30024B	LT5030	8.904-874.0	2BK80H	8.715-592.0	25mm	9.802-403.0	8 HP	230V/3PH	8.750-999.0	2BK34H	9.802-382.0	1-3/8"
4-30024C	LT5030	8.904-874.0	2BK80H	8.715-592.0	25mm	9.802-403.0	8 HP	460V/3PH	8.750-999.0	2BK34H	9.802-382.0	1-3/8"
4-30024H	LT5030	8.904-874.0	2BK80H	8.715-592.0	25mm	9.802-403.0	8 HP	208V/3PH	8.750-998.0	2BK34H	9.802-382.0	1-3/8"
6-30024B	LT6035/L	8.904-883.0	3BK70H	8.715-617.0	25mm	9.802-403.0	15 HP	230V/3PH	8.751-006.0	3TB56	8.715-606.0	P1x1-5/8"
6-30024C	LT6035/L	8.904-883.0	3BK70H	8.715-617.0	25mm	9.802-403.0	15 HP	460V/3PH	8.751-006.0	3TB56	8.715-606.0	P1x1-5/8"
8-30024B	LX8030	8.904-889.0	3BK80H	8.715-618.0	25mm	9.802-403.0	20 HP	230V/3PH	8.751-012.0	3TB60	8.715-607.0	P1x1-5/8"
8-30024C	LX8030	8.904-889.0	3BK80H	8.715-618.0	25mm	9.802-403.0	20 HP	230V/3PH	8.751-012.0	3TB60	8.715-607.0	P1x1-5/8"
8-30024H	LX8030	8.904-889.0	3BK80H	8.715-618.0	25mm	9.802-403.0	20 HP	208V/3PH	8.715-125.0	3TB60	8.715-607.0	P1x1-5/8"
10-20024B	LX1025	8.904-891.0	3BK70H	8.715-617.0	25mm	9.802-403.0	20 HP	230V/3PH	8.751-012.0	3TB60	8.715-607.0	P1x1-5/8"
10-20024C	LX1025	8.904-891.0	3BK70H	8.715-617.0	25mm	9.802-403.0	20 HP	460V/3PH	8.751-012.0	3TB60	8.715-607.0	P1x1-5/8"

SPECIFICATIONS

PARTS SPECIFICATIONS: LANDA PUMP (CON'T)

											Stendown
	Bushing	Belt	Belt	Motor		•	Primary		econdary		otopuomi
(Con't) Part #	Size/Qty	Part #	Contact C	Overload Tra	ansformer	Fuse	Fuse Part #	Fuse	Fuse Part #	Transformer
4-2A	9.802-400.0) AX37 (2)	9.802-409.0	8.724-281.0	N/A	9.802-552.0) 1 A	8.933-007.0 (2) 8/10 A	9.802-464.0	9.802-553.0
4-2B	9.802-400.0) AX37 (2)	9.802-409.0	8.724-272.0	8.724-304.0	9.802-552.0) 1 A	8.933-007.0 (2) 8/10 A	9.802-464.0	9.802-553.0
4-2C	9.802-400.0) AX37 (2)	9.802-409.0	8.724-268.0	8.724-303.0	9.802-552.0) 1/2 A	9.802-462.0 (2) 8/10 A	9.802-464.0	9.802-553.0
4-2H	9.802-400.0) AX37 (2)	9.802-409.0	8.724-276.0	8.724-304.0	8.716-882.0) 1 A	8.933-007.0 (2) 8/10 A	9.802-464.0	9.802-553.0
4-3A	9.802-401.0) BX34 (2)	8.715-695.0	8.724-281.0	8.724-306.0	9.802-552.0) 1 A	8.933-007.0 (2) 8/10 A	9.802-464.0	9.802-553.0
4-3B	9.802-401.0) BX34 (2)	8.715-695.0	8.724-276.0	8.724-305.0	9.802-552.	0 1 A	8.933-007.0 (2) 8/10 A	9.802-464.0	9.802-553.0
4-3C	9.802-401.0) BX34 (2)	8.715-695.0	8.724-268.0	8.724-304.0	9.802-552.	0 1/2 A	9.802-462.0 (2) 8/10 A	9.802-464.0	9.802-553.0
4-3H	9.802-401.0) BX34 (2)	8.715-695.0	8.724-276.0	8.724-305.0	8.716-882.	0 1 A	8.933-007.0 (2) 8/10 A	9.802-464.0	9.802-553.0
6-3B	9.803-980.0) BX50 (3)	8.715-709.0	8.724-281.0	8.724-307.0	9.802-552.	0 1 A	8.933-007.0 (2)) 8/10 A	9.802-464.0	9.802-553.0
6-3C	9.803-980.0) BX50 (3)	8.715-709.0	8.724-276.0	8.724-304.0	9.802-552.	0 1/2 A	9.802-462.0 (2) 8/10 A	9.802-464.0	9.802-553.0
8-3B	9.803-980.0) BX54 (3)	8.715-712.0	8.735-015.0	8.724-307.0	9.802-552.	0 1 A	8.933-007.0 (2	2) 8/10 A	9.802-464.0	9.802-553.0
8-3C	9.803-980.0) BX54 (3)	8.715-712.0	8.724-281.0	8.724-305.0	9.802-552.	0 1/2 A	9.802-462.0 (2	2) 8/10 A	9.802-464.0	9.802-553.0
8-3H	9.803-980.0) BX54 (3)	8.715-712.0	8.735-015.0	8.724-307.0	8.716-882.	0 1 A	8.933-007.0 (2	2) 8/10 A	9.802-464.0	9.802-553.0
10-2B	9.803-980.0) BX52 (3)	8.715-711.0	8.735-015.0	8.724-307.0	9.802-552.	0 1 A	8.933-007.0 (2) 8/10 A	9.802-464.0	9.802-553.0
10-2C	9.803-980.0) BX52 (3)	8.715-711.0	8.724-281.0	8.724-306.0	9.802-552.	0 1/2 A	9.802-462.0 (2) 8/10 A	9.802-464.0	9.802-553.0

PRESSU

BURNER SPECIFICATIONS

MODEL	BURNER ASSEMBLY	JET SIZE	GAS VALVE	PILOT ORIFICE CONVERSION
VNG4-2000	X-44	#54	3/4" VB8304	No
VNG4-3000	X-44	#54	3/4" VB8304	No
VNG6-3000	SQ-98	#54	1" V8943B	No
VNG8-3000	SQ-98	#54	1" V8943B	No
VNG10-2000	SQ-98	#54	1" V8943B	No
VLP4-2000	X-44	#63	3/4" V8943B-393691 LP Kit	No
VLP4-3000	X-44	#63	3/4" V8943B-393691 LP Kit	No
VLP6-3000	SQ-98	#65	1" V8943C	No
VLP8-3000	SQ-98	#65	1" V8943C	No
VLP10-2000	SQ-98	#65	1" V8943C	No

8.913-939.0 • LANDA VNG • Rev. 5/12

BASIC FACTS

BASED ON 60° F	=	PROPANE	BUTANE				
Formula		C3H8	C4H10				
Vaporization Poin	t (°F)	-43.7	31.1				
Specific Gravity (Vapor)	1.522	2.006				
Specific Gravity (Liquid)	0.508	0.584				
Lbs. Per Gallon (L	_iquid)	4.23	4.87				
B.T.U. Per Cubic I	Foot (Vapor)	2.563	3.39				
B.T.U. Per Lb. (Va	por)	21.663	21/3-9				
B.T.U. Per Gallon	(Liquid)	91.74	1-3/93				
Cubic Feet Per Lt	p. (Liquid)	8.607	7/53				
Cubic Feet Per G	allon (Liquid)	3.45	31/9				
Octane Number		125	1				
Molecular Weight		44.09	58.12				
To calculate run	ning cost:						
1 cubic Ft./1,0	00 B.T.U.						
100 cubic Ft./	Therm						
Therm/Hour							
50¢ Therm							
Example:	Using natural gas						
	400,000 BTU Machine						
	400 cubic feet						
	4 Therms/hour						
	4 x .50 = \$2.00/hour to run						

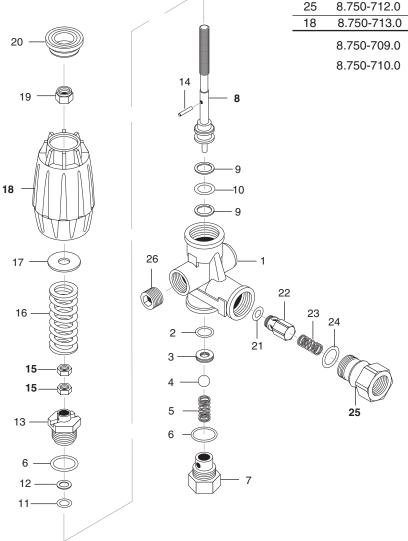
PRESSURE EQUIVALENTS

Simply stated, pressure is the force exerted by a gas or liquid attempting to escape from a container. It is useful to know how strong this "attempt to escape" is. Pressure can be measured with a manometer or with a pressure gauge. At the lower levels, it is expressed in "water column inches" i.e. 1 w.c.i. Higher pressures are expressed in terms of the force exerted against a square inch of area. For example, 125 lbs. per square inch (125 psi).

1 Water Column Inch	=	50 Oz./Sq. In.	11 Water Column Inches	=	6.35 Oz./Sq. In.
11 Water Column Inches	=	4 Lb./Sq. In.	1 Lb./Sq. In.	=	27.71 Water Column Inches
1 Lb./Sq. In.	=	"2.04"" Mercury"	"1"" Mercury"	=	.39 Lb./Sq. In.
1 Std. Atmosphere	=	14.73 Lbs./Sq. In			

VRT3 UNLOADER EXPLODED VIEW AND PARTS LIST

8.750-297.0, 8 GPM, 2320 PSI 8.750-298.0, 8 GPM, 3630 PSI 8.750-299.0, 8 GPM, 4500 PSI



ITEM	PART NO.	DESCRIPTION	QTY
25	8.750-712.0	Outlet Fitting	1
18	8.750-713.0	Knob, Unloader	1
	8.750-709.0	Repair Kit, VRT3, 23	320/3630 PSI
	8.750-710.0	Repair Kit, VRT3, 45	500 PSI
		(Kit Items: 1, 4, 8-12	, 16, 21-22)

Unloader Adjustment Procedures

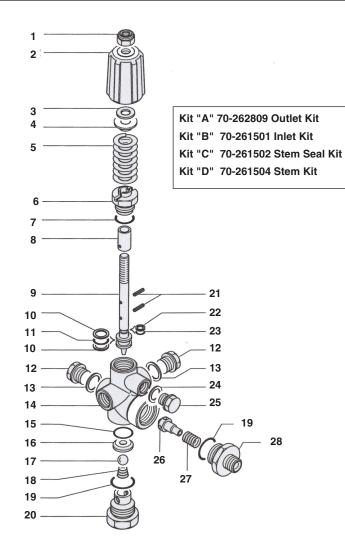
- 1. Remove lock nut (Item 19).
- 2. Remove adjustment knob (Item 18).
- 3. Loosen the two (2) nuts (Item 15), move them upward on stem (Item 8) until you see 4 or more threads below the nut.
- 4. Re-attach adjusting knob (Item 18).
- 5. Start machine. Open the trigger of the spray gun. Increase pressure by turning adjustment knob (Item 18) clockwise until pressure is at the desired operating pressure.
- Remove the adjustment knob (Item 18), tighten the lower nut (Item 15) tightly against the upper nut (Item 15). Reattach adjustment knob (Item 18) and screw down until contact is made with the nuts (Items 15). Screw down lock nut (Item 19) onto the stem (Item 8) until the threads cut into the nylon insert of the lock nut (Item 19).

*If adjustment knob (Item 18) **DOES NOT** make contact with upper nut (Items 15), remove adjusting knob (Item 18), re-adjust (raise) nuts (Items 15) on stem (Item 8) and re-attach adjustment knob (Item 18), then repeat step #6.

If adjustment knob (Item 18) **DOES make contact with upper nut; release the trigger of the spray gun and watch the pressure gauge for the pressure increase ("spike"). This "spike" **SHOULD NOT** exceed 500 psi above the operating pressure. If "spike" pressure exceeds the 500 psi limit, remove the adjusting knob (Item 18) and re-adjust (lower) the nuts (Items 15) on the stem (Item 8). Re-attach the adjusting knob (Item 18), then repeat step #6.

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VBXL 8.715-508.0 (5-3324) UNLOADER EXPLODED VIEW



VBXL 5-3324 UNLOADER EXPLODED VIEW PARTS LIST

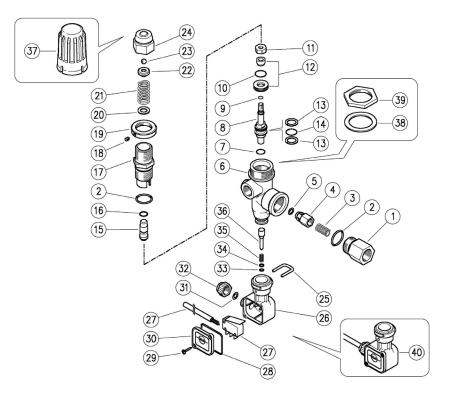
ITEM#	PART #	DESCRIPTION	ΚΙΤ	QTY	ľ	TEM#	PART #	DESCRIPTION	ΚΙΤ	QTY
1	8.717-192.0	Nut, Locking		1		15	9.803-948.0	O-Ring, Seat	В	1
2	8.717-269.0	Handle, Red		1	_	16	8.932-703.0	Seat	В	1
3	8.932-697.0	Space, Anti-friction	D	1	_	17	8.730-888.0	Ball, 7/16"	В	1
4	8.932-693.0	Plate	D	1	_	18	8.730-688.0	Spring, Ball	В	1
5	8.932-689.0	Spring	D	1		19	8.932-681.0	O-Ring, Relief	A,B	2
6	8.717-403.0	Stem Nut	D	1	-	20	8.717-405.0	Relief, 1/2"		1
7	9.803-191.0	O-Ring, Nut	С	1	_	21	8.932-705.0	Pin	С	2
8	8.932-684.0	Spacer, Red		1	_	22	8.717-077.0	O-Ring, Teflon 106	С	1
9	8.932-695.0	Stem	D	1	_	23	8.932.702.0	O-Ring, Stem	С	1
10	8.717-078.0	O-Ring, Teflon 115	С	2	_	24	9.803-198.0	Washer, Copper		1
11	8.932-682.0	O-Ring, Stem	С	1	_	25	9.803-951.0	Plug, 1/4"		1
12	9.802-925.0	Plug, 3/8"		2	_	26	9.803-917.0	Poppet	Α	1
13	9.803-198.0	Washer, Copper, 3/8"		3	_	27	8.933-017.0	Spring, Poppet	А	1
	9.803-950.0	Washer, Copper, 1/4"		1	_	28	8.932-701.0	Discharge Port, 1/2"		1
14	8.932-679.0	Body		1	_	29	8.932-702.0	Connector		1

VB8 VALVE EXPLODED VIEW

VB8 Valve, 9.802-362.0 (5-3027)

SHER

OPERATOR'S MANUAL PRESSURE WA



VB8 VALVE EXPLODED VIEW PARTS LIST

ITEM#	PART #	DESCRIPTION	Ω ΤΥ
1	60.0058.31	Delivery coupl.,	
		3/8F Bsp brass	1
2	10.3070.02	O-Ring 1.78 x 18.77 mm Ni 85	2
3	60.0053.51	Spring, 0.7 x 9 x 20 mm Sst.	1
4	60.0052.31	Shutter pin, brass	1
5	10.3070.02	O-Ring, 3 x 6 mm	1
6	60.1201.35	Housing-BB8, 3/8 M Bsp	
		c/sunk, brass	1
7	10.3170.08	O-Ring, 2.62 x 7.6 mm Ni 85	1
8	60.1206.31	Piston, M6 brass	1
9	10.3001.01	O-Ring, 1 x 4 mm Ni 85	1
10	10.3066.01	O-Ring, 1.78 x 15.6 mm Ni 85	1
11	60.1205.31	Special Nut, M6 brass	1
12	60.2221.20	Seat,10 mm + O-Ring,	
		1.78 mm NBR 85+shutt.	1
13	10.4021.00	Back-up Ring, opn. 11.5 x	
		15.9 x 1.2 mm	2
14	10.3175.00	O-Ring 2.65 x 10.77 mm	1
15	60.1204.31	Spring rest pin, brass	1
16	10.3167.01	O-Ring, 2.62 x 5.23 mm Ni 85	i 1
17	60.1203.31	Piston holder, brass	1
18	16.2100.00	Set screw, DIN914M 4 x 4 mm	n 1
19	60.1704.31	Ring nut, M22 x 1 brass	1
20	14.3719.00	Washer, 9 x 15 x 1, 5 mm Sst.	. 1
21	60.1208.61	Spring, 3.2 x15.4 x 33 mm z.pl	. 1

ITEM	#	PART #	DESCRIPTION	QTY
22		60.1210.31	Spring guiding ring	1
23		14.7421.50	Ball, 1/4" Sst.	1
24		60.1209.31	Valve regulating Insert, brass	s 1
25		29.0087.51	U-bolt, Sst.	1
26		29.0089.84	Housing, PR5 PA black	2
27		12.5006.00	Cable, 3 x 0.75L.1000 mm	
			+ Microswitch	1
28		10.3206.01	O-Ring, 2.62 x 28.25 mm	1
29		16.3020.00	S/tapp. screw, DIN7981	
			2.5 x 12mm nick.pl.	2
30		29.0088.84	Lid, PR5 PA black	1
31		10.3169.00	O-Ring, 2.62 x 6.02 mm	1
32		29.0082.84	Locknut for cable gland,	
			PA black	1
33		10.3038.00	O-Ring, 1.78 x 3.68 mm	1
34		14.3519.53	Washer, 4 x 8 x 0.8 mm Sst.	1
35		60.2303.51	Spring, 1.1 x 8 x 20 mm Sst.	1
36		60.1281.31	Micro-switch piston, brass	1
37		60.1202.84	Valve regulating knob,	
			PA black (1)	1
38		14.3582.00	Washer, 30.5 x 42 x 2 mm	1
39		60.2254.31	Ring nut , M30 brass (1)	1
40		29.0096.24	Casing kit - PR5, complete	
			40 bar	1
Kit:	K1	60.1212.24	Repair kit-VB8. 9 x 1 pcs.	
			(1) 60.1290.00	1

VB8 VALVE EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	12-60005831	3/8" Bsp F Outlet Fitting	1
2	12-10307002	‡ O-Ring 1.78 x 18.77mm	2
3	12-60005351	Spring	1
4	12-60005231	Check Valve	1
5	12-10321300	‡ O-Ring 3 x 6mm	1
6	12-60120135	VB8 Brass Body	1
7	12-10317008	‡ O-Ring 2.62 x 7.6	1
8	12-60120631	Piston	1
9	12-10300101	‡ O-Ring 1 x 4mm	1
10	12-10306601	‡ O-Ring 1.78 x 15.6mm	1
11	12-60120531	M6 Nut	1
12	12-60222120	‡ VB8 Seat & Shutter	1
13	12-10402100	‡ Back Ring 11.4 x 15.9	2
14	12-10317500	‡ O-Ring 2.62 x 10.77mm	1
15	12-60120431	Spring Guide	1
16	12-10316701	‡ O-Ring 2.62 x 5.23mm	1
17	12-60120331	Piston Housing	1
18	12-16210000	M4 x 4mm Dowel	1
19	12-60170431	M22 Nut	1
20	12-14371900	Washer 9 x 15mm	1

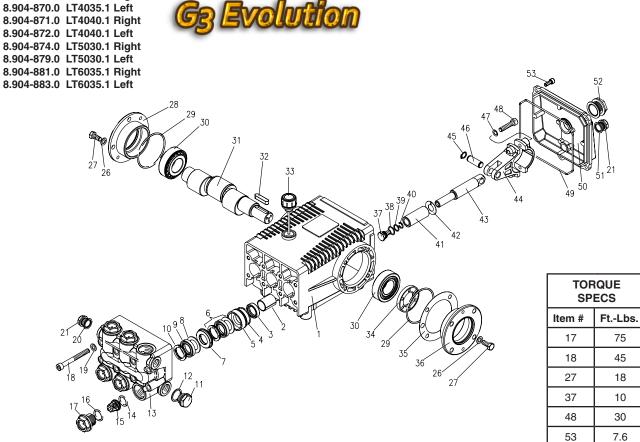
ITEM	PART NO.	DESCRIPTION	QTY
21	12-60120861	Spring 3 x 33mm	1
22	12-60121031	Upper Frame	1
23	12-14742100	1/4" Ball	1
24	12-60120931	Brass Cap	1
25	12-29008751	Sst Clip	1
26	12-29008984	Plastic Housing	1
27	12-12500600	El. Cable & Micro Switch	1
28	12-10320601	O-Ring 2.62 x 28.25mm	1
29	12-16302000	2.5 x 12mm Screw	2
30	12-29008884	Cover	1
31	12-10316900	O-Ring 2.62 x 6.02mm	1
32	12-29008284	Black Nut - 40 Bar	1
33	12-10303800	O-Ring 1.78 x 3.68	1
34	12-14351900	Washer 4 x 8mm	1
35	12-60230351	Spring	1
36	12-60128131	PR 5 Pin	1
37	12-60120284	Plastic Handle	
		(83-60129000)	1
38	12-14358200	Washer D. 30mm	4
		(8360129000)	1
39	12-60225431	M30 Nut (83-60129000)	1
40	12-29009624	PR5 Pl. Housing Kit	1
	12-60121224	‡ VB8 Repair Kit	

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PRESSURE WASHER OPERATOR'S MANUAL

LT.1 SERIES PUMP EXPLODED VIEW

Т S 8.904-869.0 LT4035.1 Right 8.904-870.0 LT4035.1 Left n 5 S I 0 Q **OPERATOR'S MANUAL**



LT.1 SERIES PUMP EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	9.803-163.0	Crankcase	1
2	9.803-195.0	Plunger Guide	3
3*	See Kit	Plunger Oil Seal	3
4*	See Kit	O-Ring Ø1.78 x 31. 47	3
5*	See Kit	"Pressure Ring, Brass	3
6*	See Kit	"U" Seal Low Pressure	3
7*	See Kit	Intermediate Ring, Brass	3
8*	See Kit	Support Ring, Teflon Bronze	3
9 *	See Kit	"U" Seal High Pressure	3
10*	See Kit	Support Ring	3
11	9.802-926.0	Brass Plug, 1/2"	1
12	9.803-199.0	Copper Washer 1/2"	1
13	9.802-933.0	Manifold Head	1
14*	See Kit	O-Ring Ø2.62 x 17.13	6
15*	See Kit	Valve Assembly	6
16*	See Kit	O-Ring Ø2.62 x 20.29	6
17	9.802-928.0	Valve Plug	6
18	9.802-943.0	Manifold Stud Bolt	8

ITEM	PART NO.	DESCRIPTION	QTY
19	9.802-890.0	Washer	8
20	9.803-198.0	Copper Washer 3/8"	1
21	9.802-925.0	Brass Plug 3/8"	1
26	9.802-884.0	Washer	8
27	9.802-944.0	Hexagonal Screw	8
28	9.803-182.0	Closed Bearing Housing	1
29	9.803-186.0	O-Ring Ø2.62 x 71.12	2
30	9.803-160.0	Roller Bearing, Tapered	2
31	9.803-148.0	Crankshaft (GT4040.1,	
	9.803-149.0	5030.1, 6035.1) Crankshaft (GT 4035.1)	1
32	9.803-167.0	Crankshaft Key	
33	9.802-923.0	Oil Dip Stick	
34	9.803-139.0	Crankshaft Seal	1
35	9.803-177.0	Shim	2
36	9.803-181.0	Bearing Housing	1
37*	See Kit	Plunger Bolt	3
38*	See Kit	Copper Spacer	3

LT.1 SERIES PUMP PARTS LIST (CONT)

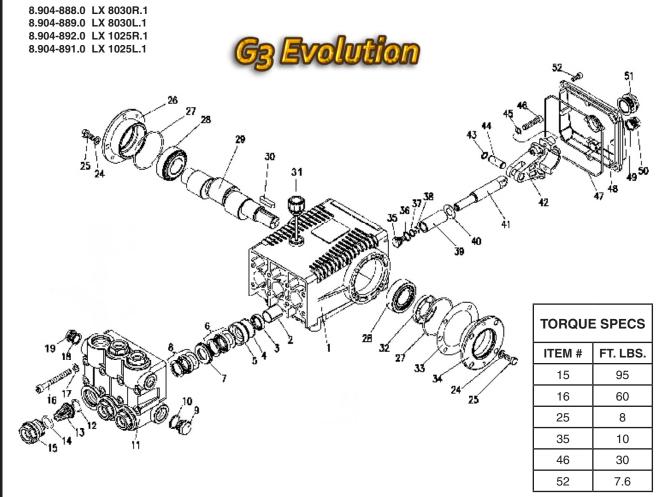
ITEM	PART NO.	DESCRIPTION	QTY
39*	See Kit	O-Ring Ø1.78 x10.82	3
40*	See Kit	Teflon Ring	3
41*	See Kit	Plunger	3
42*	See Kit	Copper Spacer	3
43	9.803-143.0	Plunger Rod	3
44	9.803-157.0	Connecting Rod	3
45	9.802-912.0	Snap Ring	6
46	9.802-915.0	Connecting Rod Pin	3
47	9.802-889.0	Spring Washer	6
48	9.802-937.0	Connecting Rod Screw	6
49	9.803-194.0	O-Ring Ø2.62 x 152.07	1
50	9.803-166.0	Crankcase Cover	1
51	9.803-197.0	Gasket, G3/8	1
52	9.803-202.0	Sight Glass G3/4	1
53	9.802-939.0	Cover Screw	5
* Dort o	wailahla in kit (C		

* Part available in kit (See below)

REPAIR KIT NUMBER	8.916-488.0	8.916-487.0	8.916-322.0	8.916-323.0	9.802-607.0	9.802-611.0
KIT DESCRIPTION	Plunger "U" Seal 20mm LT-4040.1, LT-6035.1 LT-4035.1	Plunger "U" Seal 22mm LT-5030.1	"U" Seal Packing Assy 20mm LT-4040.1 LT-6035.1 LT-4035.1	"U" Seal Packing Assy 22mm LT-5030.1	Plunger 20mm LT-4040.1 LT-6035.1 LT-4035.1	Plunger 22mm LT-5030.1
ITEM NUMBERS	4, 6, 8, 9, 10	4, 6, 8, 9, 10	4, 5, 6, 7, 8, 9,10	4, 5, 6, 7, 8, 9,10	37, 38, 39, 40, 41, 42	37, 38, 39, 40, 41, 42
NUMBER OF CYLINDERS KIT WILL SERVICE	3	3	1	1	1	1

REPAIR KIT NUMBER	9.802-603.0	9.802-606.0
KIT DESCRIPTION	Complete Valve (all pumps)	Plunger Oil Seals (all pumps)
ITEM NUMBERS	14, 15, 16	3
NUMBER OF CYLINDERS KIT WILL SERVICE	6	3

LX.1 SERIES PUMP EXPLODED VIEW



LX.1 SERIES PUMP EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	9.803-163.0	Crankcase	1
2	9.803-195.0	Plunger Guide	3
3*	See Kit	Plunger Oil Seal	3
4*	See Kit	O-Ring Ø1.78 x 37.82	3
5*	See Kit	Pressure Ring, 25mm	3
6*	See Kit	U-Seal, 25mm	3
7*	See Kit	Intermediate Ring 25mm	6
8*	See Kit	U-Seal, 25mm	3
9	9.803-285.0	Brass Plug, 3/4	1
10	9.803-286.0	Copper Washer 3/4	1
11	9.802-935.0	Manifold Housing	1
12*	9.803-291.0	O-Ring Ø2.62 x 23.47	6
13*	See Kit	Valve Assembly	6
14*	9.803-287.0	O-Ring Ø3.53 x 25.80	6
15	9.802-930.0	Valve Plug	6
16	9.802-942.0	Manifold Stud Bolt	8
17	9.802-890.0	Lock Washer	8

ITEM	PART NO.	DESCRIPTION	QTY
18	9.803-199.0	Copper Washer 1/2	1
19	9.802-926.0	Brass Plug 1/2	1
24	9.802-884.0	Washer	8
25	9.802-944.0	Flange Screw	8
26	9.803-182.0	Closed Bearing Housing	1
27	9.803-186.0	O-Ring Ø2.62 x 71.12	2
28	9.803-160.0	Roller Bearing	2
29	9.803-288.0	Crankshaft (LX 8030)	1
	9.803-289.0	Crankshaft (LX 1025)	1
30	9.803-167.0	Crankshaft Key	1
31	9.802-923.0	Oil Dip Stick	1
32	9.803-139.0	Crankshaft Seal	1
33	9.803-177.0	Shim	2
34	9.803-181.0	Bearing Housing	1
35*	See Kit	Plunger Bolt	3
36*	See Kit	Copper Spacer	3

LX.1 SERIES PUMP EXPLODED VIEW PARTS LIST (CONT.)

ITEM	PART NO.	DESCRIPTION	QTY
37*	See Kit	O-Ring Ø1.78x10.82	3
38*	See Kit	Teflon Ring	3
39*	See Kit	Plunger 25mm	3
40*	See Kit	Copper Spacer	3
41	9.803-143.0	Plunger Rod	3
42	9.803-157.0	Connecting Rod	3
43	9.802-912.0	Snap Ring	6
44	9.802-915.0	Connecting Rod Pin	3
45	9.802-889.0	Spring Washer	6
46	9.802-937.0	Connecting Rod Screw	6
47	9.803-194.0	O-Ring Ø2.62 x 152.07	1
48	9.803-166.0	Crankcase Cover	1
49	9.803-197.0	Gasket, G3/8	1
50	9.802-925.0	Brass Plug 3/8	1
51	9.803-202.0	Sight Glass G3/4	1
52	9.802-939.0	Cover Screw	5
* Avail	able in kit (See	holow	

* Available in kit (See below)

KIT NUMBERS	8.725-364.0	8.725-365.0	9.802-614.0	9.802-608.0	9.802-606.0
KIT DESCRIPTION	Plunger Seal 25 mm	Seal Packing 25mm	Plunger 25mm	Complete Valve	Plunger Oil Seals
ITEMS NUMBERS INCLUDED	4, 6, 8	4, 5, 6, 7, 8	35, 36, 37, 38, 39, 40	12, 13, 14	3
NUMBER OF CYLINDERS KIT WILL SERVICE	3	1	1	6	3

LANDA®

LANDA LIMITED NEW PRODUCT WARRANTY

PRESSURE WASHERS

WHAT THIS WARRANTY COVERS

All LANDA pressure washers are warranted by LANDA 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 LANDA, such as frames, handles, top and bottom wraps, float tanks, fuel tanks, belt guards, and internal components on the oil-end of Landa manufactured pumps. Pro-Duty units (PD Series) have a three-year warranty against material defects and workmanship. General, AR, Legacy, Comet 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 warranty on these parts will be for one year regardless of the duration of the original component manufacturer's part 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. LANDA is not authorized and has no responsibility to provide warranty service for such components.

WHAT THIS WARRANTY DOES NOT COVER

This warranty does not cover the following items:

6.

- 1. Normal wear items, such as nozzles, spray guns, discharge hoses, wands, quick couplers, seals, filters, gaskets, O-rings, packings, pistons, pump valve assemblies, strainers, belts, brushes, rupture disks, fuses, pump protectors.
- 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 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 clearing of obstructions.
 - Transportation to service center, field labor charges, or freight damage.

WHAT YOU MUST DO TO OBTAIN WARRANTY SERVICE

While not required for warranty service, we request that you register your LANDA pressure washer by returning the completed registration card. In order to obtain warranty service on items warranted by LANDA, you must return the product to your Authorized LANDA Dealer, freight prepaid, with proof of purchase, within the applicable warranty period. If the product is permanently installed, you must notify your Authorized LANDA Dealer of the defect. Your Authorized LANDA Dealer will file a claim with Landa, who must subsequently verify the defect. In most cases, the part must be returned to LANDA freight prepaid with the claim. For warranty service on components warranted by other manufacturers, your Authorized LANDA Dealer can help you obtain warranty service through these manufacturers' local authorized service centers.

LIMITATION OF LIABILITY

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