

SEHW

Hot Water - Skid Mounted - Electric-Powered -
Diesel/Oil-Heated

LANDA®

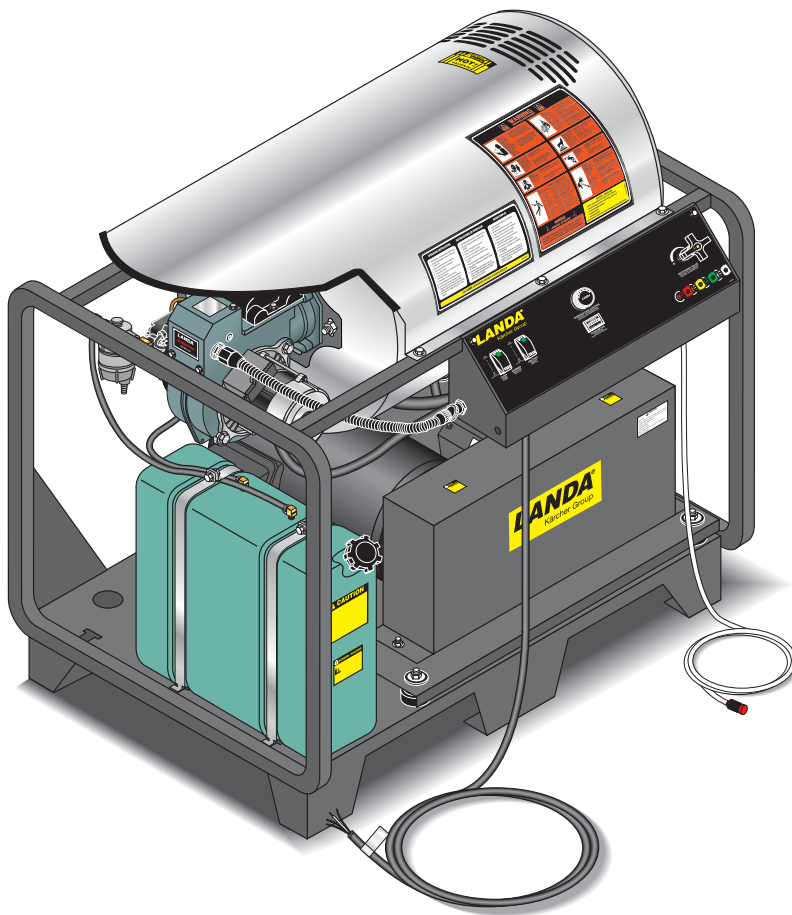
Kärcher Group

Operator's Manual

Pressure Washer

MODELS: SEHW6 - 3500
1.109-521.0

SEHW6 - 3500
1.109-522.0



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Intertek

8.913-932.0-T



03/15/20

Machine Data Label

Model: _____

Date of Purchase: _____

Serial Number: _____

Dealer: _____

Address: _____

Phone Number: _____

Sales Representative: _____

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How To Use This Manual

This manual contains the following sections:

- How to Use This Manual
- Safety
- Operations
- Maintenance
- Parts List

The HOW TO USE THIS MANUAL section will tell you how to find important information for ordering correct repair parts.

Parts may be ordered from authorized dealers. When placing an order for parts, the machine model and machine serial number are important. Refer to the MACHINE DATA box which is filled out during the installation of your machine. The MACHINE DATA box is located on the inside of the front cover of this manual.

Model: _____
Date of Purchase: _____
Serial Number: _____
Dealer: _____
Address: _____
Phone Number: _____
Sales Representative: _____

The model and serial number of your machine is located on the back of the machine.

The SAFETY section contains important information regarding hazardous or unsafe practices of the machine. Levels of hazards are identified that could result in product damage, personal injury, or severe injury resulting in death.

The OPERATIONS section is to familiarize the operator with the operation and function of the machine.

The MAINTENANCE section contains preventive maintenance to keep the machine and its components in good working condition. They are listed in this general order:

- Maintenance & Service
- Pump Lubrication
- Fuel
- Ignition Circuit
- Electrode Setting
- Burner Air Adjustment
- Burner Nozzle
- Rupture Disk
- Cleaning of Coils
- Spray Nozzles
- Unloader Valve
- Winterizing Procedure
- Low Pressure Diagnosis
- Removal of Soot and Heating Coil
- High Limit Hot Water Thermostat
- Coil Removal & Installation
- Troubleshooting
- Preventative Maintenance

The PARTS LIST section contains assembled parts illustrations and corresponding parts list. The parts lists include a number of columns of information:

- **REF** – column refers to the reference number on the parts illustration.
- **PART NO.** – column lists the part number for the part.
- **QTY** – column lists the quantity of the part used in that area of the machine.
- **DESCRIPTION** – column is a brief description of the part.
- **NOTES** – column for information not noted by the other columns.

NOTE: If a service or option kit is installed on your machine, be sure to keep the KIT INSTRUCTIONS which came with the kit. It contains replacement parts numbers needed for ordering future parts.

NOTE: The manual part number is located on the lower right corner of the front cover.

Introduction & Safety Information

Thank you for purchasing this Pressure Washer.

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

Owner/User Responsibility

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

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

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

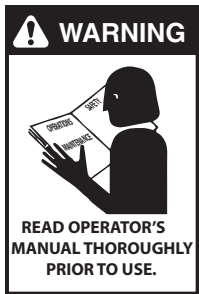
SAVE THESE INSTRUCTIONS

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

When ordering parts, please specify model and serial number. Use only identical replacement parts.

This machine is to be used only by trained operators.

Important Safety Information



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

AVERTISSEMENT: Pour réduire le risque de blessures, lire attentivement les instructions de fonctionnement avant l'utilisation.

1. Read the owner's manual thoroughly. Failure to follow instructions could cause malfunction of the machine and result in death, serious bodily injury and/or property damage.
2. Know how to stop the machine and bleed pressure quickly. Be thoroughly familiar with the controls.
3. Stay alert — watch what you are doing.
4. All installations must comply with local codes. Contact your electrician, plumber, utility company or the selling dealer for specific details.

WARNING: Must be plugged into properly wired three hole grounded outlet that accommodates plug on power cord. Failure to comply could result in electrical shock.

AVERTISSEMENT: Doit être raccordé dans une sortie à trois trous mise à la masse et correctement câblée qui peut accueillir une fiche sur un cordon d'alimentation. Le non-respect de cette consigne pourrait causer un choc électrique.

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 adapter with this product

DANGER: Une mauvaise connexion du conducteur de terre de l'équipement peut entraîner un risque d'électrocution. Vérifier auprès d'un électricien qualifié ou du personnel d'entretien si vous avez des doutes quant à savoir si la sortie est correctement mise à la masse. NE PAS modifier la fiche fournie avec le produit - si elle n'entre pas dans la sortie, faire installer une sortie appropriée par un électricien qualifié. NE JAMAIS utiliser un adaptateur avec ce produit.



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

DANGER: Garder la lance, le boyau et le jet d'eau à l'écart de tout câblage électrique ou des chocs électriques mortels pourraient survenir.

5. To protect the operator from electrical shock, the machine must be electrically grounded. It is the responsibility of the owner to connect this machine to a UL grounded receptacle of proper voltage and amperage ratings. Do not spray water on or near electrical components. Do not touch machine with wet hands or while standing in water. Always disconnect power before servicing.

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

AVERTISSEMENT: Des liquides inflammables peuvent produire des vapeurs qui peuvent s'enflammer, causant ainsi des dommages à la propriété ou des blessures graves.



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

AVERTISSEMENT: Risque d'explosion - Utiliser uniquement dans des endroits où l'utilisation d'une flamme nue ou d'une torche est permise.

6. In oil burning models, use only kerosene, No. 1 home heating fuel, or diesel. If diesel is used, add a soot remover to every tankful.



WARNING: Risk of fire — Do not add fuel when the machine is operating or still hot.

AVERTISSEMENT: Risque d'incendie - Ne pas ajouter de carburant pendant que la machine fonctionne ou est encore chaude.

WARNING: Do not use gasoline crankcase draining or oil containing gasoline, solvents or alcohol. Doing so will result in fire and/or explosion.

AVERTISSEMENT: Ne pas utiliser d'essence, de drainage du carter de moteur ou d'essence contenant de l'huile, de solvants ou de l'alcool.

Agir de la sorte risquerait de créer un incendie et/ou une explosion.

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 flammable materials near this machine.
8. Do not allow acids, caustic or abrasive fluids to pass through the pump.
9. Never run pump dry or leave spray gun closed longer than 1-2 minutes.
10. Keep operating area clear of all persons.

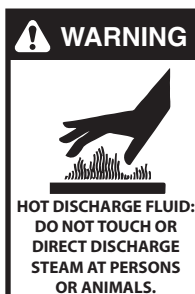


WARNING: High pressure spray can cause paint chips or other particles to become airborne and fly at high speeds. To avoid personal injury, eye, face, hand and foot safety devices must be worn.

AVERTISSEMENT: Un jet haute pression peut écailler la peinture ou provoquer l'émission d'autres

particules dans l'air et leur projection à hautes vitesses Pour éviter les lésions corporelles, une protection des yeux, du visage, des mains et des pieds doit être portée lors de l'utilisation de cet équipement.

11. Always wear properly rated eye protection such as safety goggles or face shield while spraying. (Safety glasses do not provide full protection.)



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

AVERTISSEMENT: Liquide de décharge chaud. Ne pas toucher ou décharger directement le jet vers des personnes ou des animaux, car cela risquerait de causer des blessures graves ou

même la mort.

WARNING: This machine produces hot water and must have insulated components attached to protect the operator.

AVERTISSEMENT: Cette machine produit de l'eau chaude et doit comporter des composants isolés attachés pour protéger l'opérateur.



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.

AVERTISSEMENT: Risque de blessures. Les surfaces chaudes peuvent causer des brûlures.

Utiliser uniquement les zones de prise désignées du pistolet pulvérisateur et de la lance. Ne pas placer les mains ou les pieds sur des endroits non isolés de la laveuse à pression.

12. 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.

AVERTISSEMENT: Agripper la lance de nettoyage avec les deux mains avant de commencer. Le non-respect de cette consigne pourrait mener à des blessures causées par le mouvement violent de la lance.

13. Never make adjustments on machine while in operation.
14. 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 animals, or severe injury or death will result.

AVERTISSEMENT: La haute pression générée par ces machines causera des lésions corporelles ou des dommages à l'équipement. Se tenir à l'écart de la buse. Faire preuve de prudence lors de l'utilisation. Ne pas décharger directement le jet vers des personnes ou des animaux, car cela risquerait de causer des blessures graves ou même la mort.

Safety



CAUTION: Protect machine from freezing.

ATTENTION: Protéger la machine contre le gel.

15. To keep machine in best operating conditions, it is important you protect machine from freezing. Failure to protect machine from freezing could

cause malfunction of the machine and result in death, serious bodily injury, and/or property damage. Follow storage instructions specified in this manual.

16. Inlet water must be clean fresh water and no hotter than 90°F.



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

DANGER: Risque d'asphyxie. Utiliser ce produit uniquement dans un endroit bien ventilé.

17. Avoid installing machines in small areas or near exhaust fans. Adequate oxygen is needed for combustion or dangerous carbon monoxide will result.

18. Manufacturer will not be liable for any changes made to our standard machines or any components not purchased from us.

19. 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.

AVERTISSEMENT: Faire preuve d'une extrême prudence au moment d'utiliser une échelle, des échafaudages ou toute autre surface relativement instable. La zone de nettoyage doit avoir une pente et un drainage adéquats pour réduire la possibilité d'une chute due à une surface glissante.

20. Do not overreach or stand on unstable support. Keep good footing and balance at all times.

21. Do not operate this machine when fatigued or under the influence of alcohol, prescription medications, or drugs.



WARNING: Do not spray machine or any people, animals or electrical parts.

AVERTISSEMENT: Ne pas vaporiser sur la machine ou les gens, les animaux ou les pièces électriques.

WARNING: Electric products incorporate parts that tend to produce sparks and therefore, when located in a garage, it should be in a room or enclosure for its purpose or should be 18" (45cm) or more above the floor. Install on noncombustible flooring and have a 36" minimum working clearance.

AVERTISSEMENT: Les produits électriques comportent des pièces qui ont tendance à produire des étincelles et, par conséquent, lorsqu'ils se trouvent dans un garage, il devrait s'agir d'une pièce ou d'une enceinte conçue à cette fin ou devraient se situer à 45 cm (18 po) ou plus au-dessus du sol. Installer un sol non combustible et fournir un espace de travail d'au moins 91.4 cm (36 po).



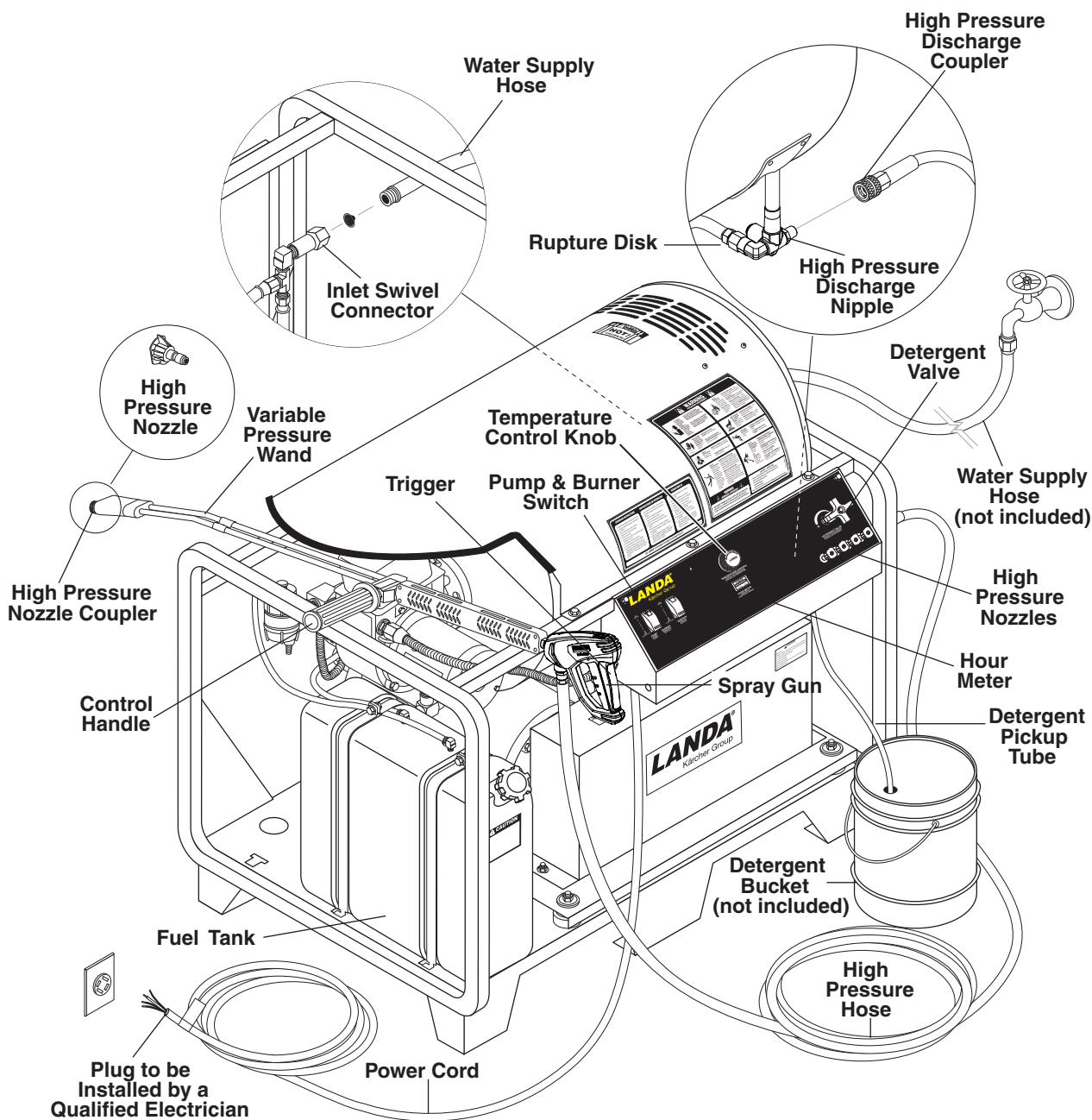
WARNING: If connection is made to a potable water system, the system shall be protected against back flow.

AVERTISSEMENT: Si une connexion est établie avec un réseau d'eau potable, le réseau doit être protégé contre le retour d'eau.



Follow the maintenance instructions specified in the manual.

Component Identification



Pump — Delivers a specific gpm to the high pressure nozzle which develops pressure (Not Shown).

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

Detergent Valve — Allows you to siphon and mix detergents.

Wand — Must be connected to the spray gun.

High Pressure Hose — Connect one end to water pump high pressure discharge nipple and the other end to spray gun.

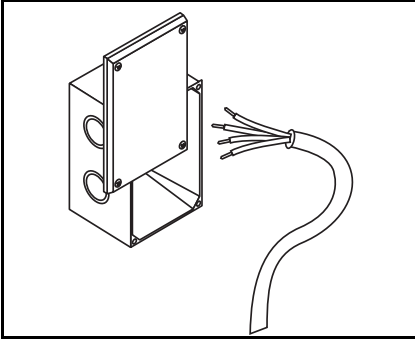
Rupture Disk — Secondary pressure release in the unlikely event the unloader valve fails.

Unloader Valve — Safety device which, when the spray gun closes, prevents over pressurization (Not Shown).

NOTE: If trigger on spray gun is released for more than 2 minutes, water will leak from the pump protector. Warm water will discharge from pump protector onto floor. This system prevents internal pump damage.

Operations

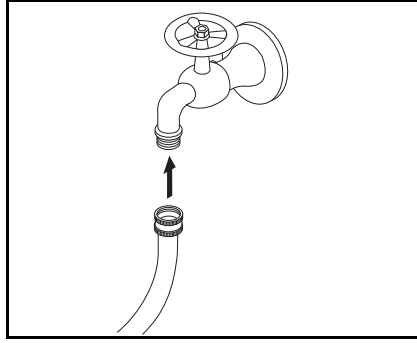
Assembly Instructions



STEP 1: Place machine in a convenient location providing ample support, drainage and room for maintenance.

Location of machine is important. Avoid installing near combustible material or in poorly ventilated areas. Machines are intended to be protected from the outside environment.

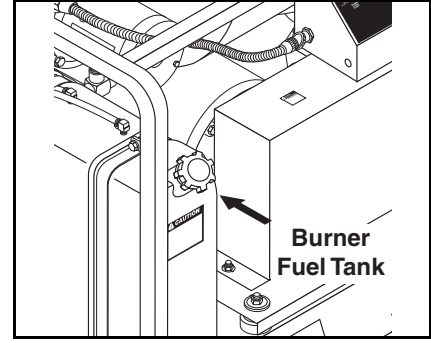
Electrical connection to machine should be the proper voltage, phase and amperage. See specifications for particular model. A power plug is not provided to ensure proper connection by a licensed electrician.



STEP 2: Water source for machines 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.

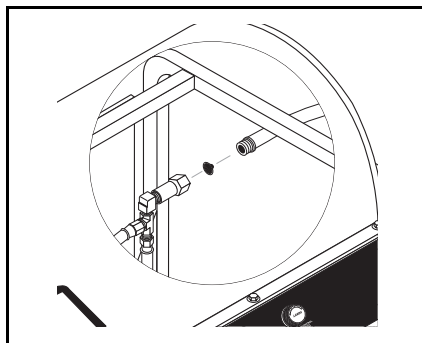
CAUTION: Use only fresh water in pressure washer.

ATTENTION: Utiliser uniquement de l'eau douce dans la laveuse à pression.



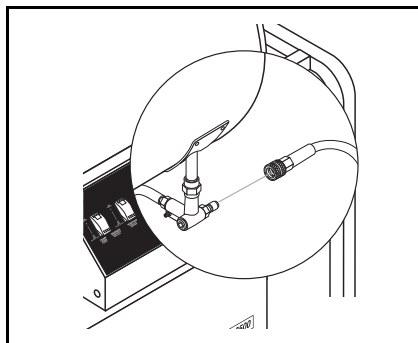
STEP 3: Fill fuel tank with proper fuel.

Operation Instructions

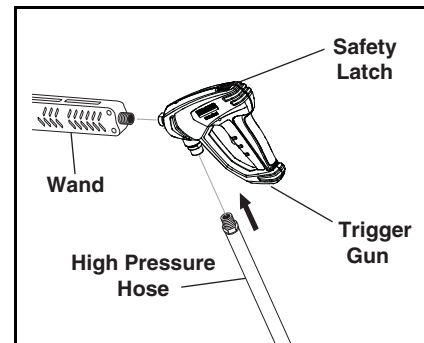


STEP 1: Read safety, installation and preventative maintenance instructions before starting machine.

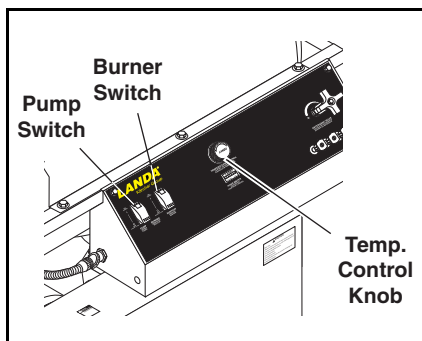
Connect the water supply hose to the float tank inlet swivel connector and turn on water supply.



STEP 2: Connect the high pressure hose quick coupler to the discharge nipple by sliding quick coupler collar back and inserting the quick coupler onto the coupler nipple and pushing the quick coupler collar forward to secure it.



STEP 3: Attach wand to spray gun using teflon tape on threads to prevent leakage. Attach swivel connector on discharge hose to spray gun using teflon tape on threads. Attach swivel connector on high pressure hose to spray gun using teflon tape on threads.

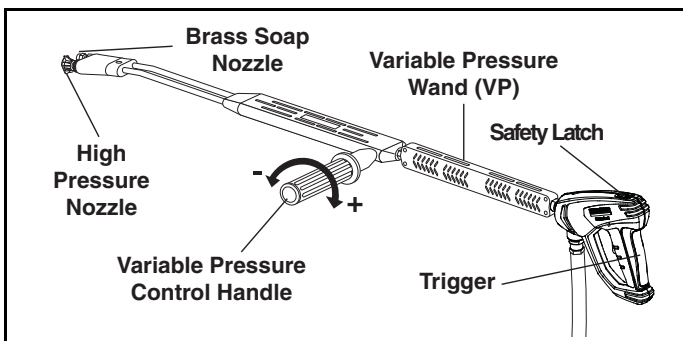


STEP 4A: Grip spray gun and wand handle securely.

Press the pump switch “ON” and then pull trigger on the spray gun to activate pressure switch which starts machine. (For auto start machines only.)

When a steady stream of water flows from the spray gun and wand, turn the thermostat knob to the 200° mark, then push the burner switch. (Burner will light automatically.)

STEP 4B: For time delay shut down machines simply press pump switch “ON” and the machine will start. Before installing pressure nozzle. Run machine allowing water to flush through the system until clear. Then insert high pressure nozzle.



STEP 5: With spray nozzle pointed away from you or anybody else, press trigger on spray gun to obtain pressurized cold water spray.

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.

NOTE: Engage safety latch when inserting high pressure nozzle to prevent from triggering gun.

Operations

Detergents & General Cleaning Techniques

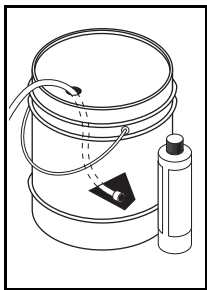
WARNING



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

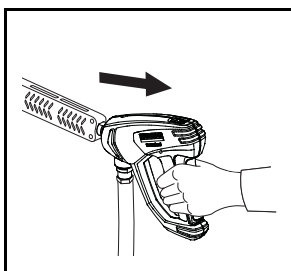
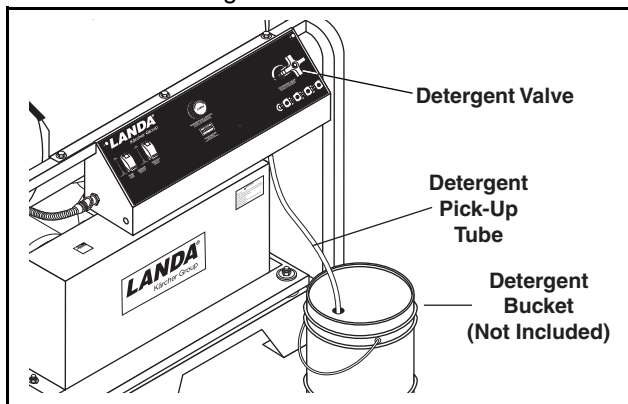
AVERTISSEMENT: Certains détergents peuvent être dangereux s'ils sont inhalés ou ingérés, provoquant de fortes nausées, des évanouissements

et l'empoisonnement. Les éléments dangereux peuvent causer des dommages à la propriété ou des blessures graves.



STEP 1: Use detergent designed specifically for pressure washers. Household detergents could damage the pump. Prepare detergent solution as required by the manufacturer. Fill a container with pressure washer detergent. Place the filter end of detergent suction tube into the detergent container.

STEP 2: Turn detergent valve counterclockwise.



STEP 3: With the motor running, pull trigger to operate machine. Liquid detergent is drawn into the machine and mixed with water. Apply detergent to work area. Do not allow detergent to dry on surface.

IMPORTANT: You must flush the detergent injection system after each use by placing the suction tube into a bucket of clean water, then open detergent valve and after one minute, close valve.

Thermal Pump Protection

If you run your pressure washer for 3-5 minutes without pressing the trigger on the spray gun, circulating water in the pump can reach high temperatures. When the water reaches this temperature, the pump protector engages and cools the pump by discharging the warm water onto the ground. This thermal device prevents internal damage to the pump.

Cleaning Tips

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

Recommendations:

- Before cleaning any surface, an inconspicuous area should be cleaned to test spray pattern and distance for maximum cleaning results.
- If painted surfaces are peeling or chipping, use extreme caution as pressure washer may remove the loose paint from the surface.
- Keep the spray nozzle a safe distance from the surface you plan to clean. High pressure wash a small area, then check the surface for damage. If no damage is found, continue to pressure washing.



CAUTION - Never use:

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

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

ATTENTION: Ne jamais utiliser :

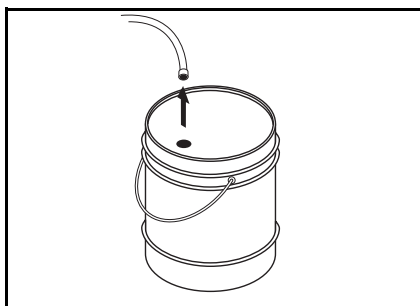
- Eau de Javel, produits à base de chlore et autres produits chimiques corrosifs
- Liquides contenant des solvants (c.-à-d. diluant à peinture, essence, huiles, etc.)
- Produits à base de tripolyphosphate de sodium
- Ammoniac ou produits à base d'acide

Rinsing

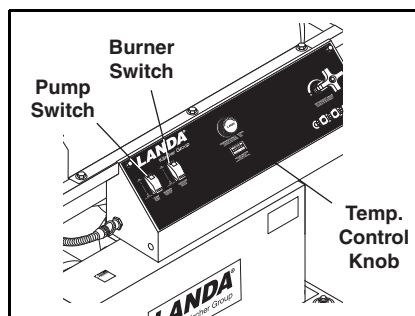
It will take a few seconds for the detergent to clear. Apply safety latch to spray gun. Remove black soap nozzle from the quick coupler. Select and install the desired high pressure nozzle.

NOTE: You can also stop detergent from flowing by simply removing detergent siphon tube from bottle.

Shutdown Instructions

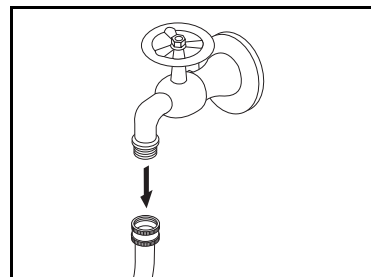


STEP 1: Place detergent line in a bucket of clear water allowing detergent to be flushed from system. Then turn detergent valve off.

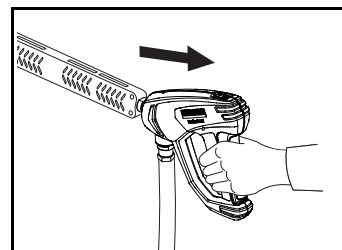


STEP 2: Push burner switch off and pull spray gun allowing water to flow which will cool down the heating coil.

After water has cooled, release the trigger on the spray gun which will activate a timer to shut the machine off after one minute. Turn the pump switch off if the machine is going to be left unattended.



STEP 3: Turn water off and remove water supply hose.



STEP 4: Open spray gun to relieve remaining pressure.

Storage



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

ATTENTION: Toujours entreposer la laveuse à pression dans un endroit où la température ne sera pas inférieure à 32°C (0 °F). La pompe sur cette machine est susceptible de subir des dommages si elle est exposée au gel. **LES DOMMAGES DUS AU GEL NE SONT PAS COUVERTS PAR LA GARANTIE.**

1. Stop the pressure washer, squeeze spray gun trigger to release pressure.
2. Detach water supply hose and high pressure hose.
3. Turn on the machine for a few seconds, until remaining water exits. Turn engine off immediately.
4. Drain the gas and oil from the engine.
5. Do not allow high pressure hose to become kinked.
6. Store the machine and accessories in a room which does not reach freezing temperatures.

After Extended Storage



CAUTION: Prior to restarting, thaw out any possible ice from pressure washer hoses, spray gun or wand.

ATTENTION: Avant de redémarrer, faire fondre la glace se trouvant sur les boyaux, le pistolet pulvérisateur ou la lance de la laveuse à pression.

Maintenance

Preventive Maintenance

1. Use clean fuel — kerosene, No. 1 home heating fuel, or diesel. Clean or replace fuel filter every 100 hours of operation. Avoid water contaminated fuel as it will cause the fuel pump to seize. De-soot coils monthly or use an additive if diesel is being used.
2. Check to see that water pump is properly lubricated (see pump lubrication below).
3. Follow winterizing procedures to prevent freeze damage to pump and coils.
4. Always flush detergent from system after use.
5. If water is known to be high in mineral content, use a water softener on your water system or use a Landa recognized coil cleaning detergent.
6. Do not allow acidic, caustic or abrasive fluids to be pumped through system.
7. Always use high grade quality Landa cleaning detergents.
8. Never run pump dry for extended periods of time.
9. Periodically descale coils as per instructions.
10. If machine is operated with smoky or eye-burning exhaust, coils will soot up, preventing water from reaching maximum operating temperature. (See section on Burner Adjustments).

Maintenance & Service

Pump Lubrication

Use only 10W-40 weight non-foaming oil. Change oil after first 50 hours of use. Thereafter, change oil every year or at 500 hour intervals. Oil level should be checked through use of dipstick found on top of pump or red dot visible through oil gauge window. Oil should be maintained at that level.

Fuel

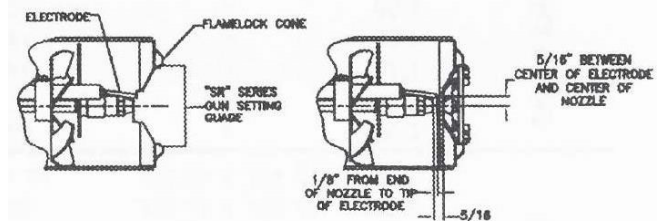
Use clean fuel oil that is not contaminated with water and debris. Use kerosene, No. 1 home heating fuel or diesel. Drain fuel tank and replace fuel filter every 100 hours of operation.

Ignition Circuit

Periodically inspect wires, spring contact and electrodes for condition, security and proper spacing. Transformer test: (**CAUTION 10,000 VOLTS**) use defect free insulated screwdriver and keep fingers off

blade! Lay blade across one contact: OK if arc will span 1/2" between end of blade and other contact. (See illustration.)

Gun Setting Instructions For EHASR Only



**SR-Series gage KNA Part
Number 8.717-379.0**

Fuel Control System

These machines utilize a fuel solenoid valve located on the fuel pump to control the flow of fuel to the combustion chamber. This solenoid valve, which is normally closed, is activated by a flow switch when water is flowing through it. When an operator releases the trigger on the spray gun, the flow of water through the flow switch stops, turning off the current to the fuel solenoid. The solenoid then closes, shutting off the supply of fuel to the combustion chamber. Controlling the flow of fuel in this way allows for an instantaneous burn or no burn situation, thereby eliminating high and low water temperatures, and combustion smoke normally associated with machines incorporating a spray gun.

CAUTION: Periodic inspection is recommended to insure that the fuel solenoid valve functions properly.

ATTENTION: Une inspection périodique est recommandée pour assurer que l'électrovalve d'alimentation en carburant fonctionne correctement.

This can be done by operating the machine and checking to see that when the trigger on the spray gun is in the off position, the burner is not firing.

Fuel Pressure Adjustment

To adjust fuel pressure, First install a pressure gage into the port just after the pump fuel exit. Turn the adjusting screw (located at the regulator port) clockwise to increase, and counterclockwise to

decrease. Do not exceed 200 psi or lower the pressure below 130 PSI, when checked at the post-pump pressure port.

The fuel pressure may need to be adjusted due to altitude. For every 500 ft altitude above sea level, the boiling point of water goes down 1 °F. At high altitude environments, this boiling point change may require the heat input to be lowered so the water input does not turn to steam earlier than at the factory settings and activate the pressure sensors and pressure relief equipment when the unit is operated and much higher altitudes from factory settings or local dealer site settings. Check with your dealer before making local site fuel pressure adjustments.

Also, as ambient temperature changes seasonally, the fuel temperature in the feed tank and air temperature inlet can impact fuel flow. In more extreme temperatures, this local-site adjustment may also require different fuel nozzles for fuel inlet temperatures that are at seasonal extremes (higher or lower) in locations where the temperature changes are beyond moderate temperatures of between 40°F and 90°F. Colder temperatures will make for a thicker flow and less fine a fuel spray while hotter temperatures will make for a thinner flow a more fine spray with the same nozzle. Consider alternate nozzle configurations from the baseline factory-supplied nozzle for operating in such temperature extremes if performance is not meeting needs with air band and fuel pressure settings alone.

NOTE: When changing fuel pump, a by-pass plug must be installed in return line port or fuel pump will not prime.

Burner Air Adjustment

The oil burner on this machine is preset for operation at altitudes below 500 feet. If operated at higher altitudes, it may be necessary to adjust the air band for a #1 or #2 smoke spot on the Bacharach scale.

To adjust, start machine and turn burner ON. Loosen two locking screws found on the air band and close air band until black smoke appears from burner exhaust vent. Note air band position. Next, slowly open the air band until white smoke just starts to appear. Turn air band halfway back to the previously noted position. Tighten locking screws.

- For higher altitudes, the air band opening may need to be increased; for lower altitude, the air band may need to be decreased.
- For higher humidity, the air band opening may need to be increased; for lower relative humidity, the air band may need to be decreased.

- For higher ambient temperatures the air band opening may need to be increased; for lower ambient temperatures, the air band opening may need to be decreased.

Adjust to your operating location's environment as-needed for best smoke spot and performance compliant with local, state, and federal regulations.

Burner Nozzle

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

Rupture Disk

If pressure from pump or thermal expansion should exceed safe limits, the rupture disk will burst, allowing high pressure to be discharged through hose to ground. When disk ruptures it will need to be replaced.

Cleaning of Coils

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 Coil Descaler (part 8.914-296.0) will remove lime and other deposits before coil becomes plugged.

Periodic descaling of the heating coil is recommended so please consult your local Landa Dealer for instructions.

Spray Nozzles

Each machine is equipped with one spray nozzle. 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 Valve

The unloader valve traps pressure in the line when the spray gun is closed. Machines with unloader valves are preset and tested at the factory before shipping. Tampering with the factory setting may cause personal injury and/or property damage, and will void the manufacturer's warranty. Occasional adjustment of the unloader may be necessary to maintain correct pressure. Consult your local Landa Dealer for the correct procedure in adjusting the unloader valve.

Winterizing Procedure

Damage due to freezing is not covered by warranty. Adhere to the following cold weather procedures whenever the washer must be stored or operated outdoors under freezing conditions.

During winter months, when temperatures drop below 32°F, protecting your machine against freezing is necessary. 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 float tank strainer fitting and, by injecting compressed air, all water will be blown out of the system.

Low Pressure Diagnosis

Refer to Troubleshooting Chart for low pressure. If, by referring to the chart, the trouble is found to be either the unloader or pump, your next step is to determine which is the problem. This can be done by eliminating the unloader from the system and attaching the discharge hose directly to the pump. If high pressure is present, then the unloader needs repairing.

CAUTION: When using this procedure to test components, keep spray gun open at all times.

ATTENTION: Lorsque cette procédure est utilisée pour tester les composants, garder le pistolet pulvérisateur ouvert en tout temps.

Removal of Soot and Heating Coil

In the heating process, fuel residue in the form of soot deposits may develop between the heating coil pipe and block air flow which will affect burner combustion. When soot has been detected on visual observation, the soot on the coil must be washed off after following the coil removal steps which follow.

Coil Removal

Removal of the coil, because of freeze breakage or to clean soot from it, can be done quickly and easily.

1. Disconnect hose from pump to inlet side of the coil.
2. Carefully disconnect thermostat sensor, making sure you do not crimp capillary tube.
3. Remove all the fittings from the inlet and discharge side of coil.
4. Remove the burner assembly from the combustion chamber.
5. Remove the 3-3/8" bolts from each side of coil and tank assembly (these bolts are used to fasten tank and handles to chassis).
6. Remove the two bolts which are underneath the bottom wrap (to keep the coil from moving).
7. Remove tank top wrap exposing insulation and coil.
8. Bend back insulation tabs.
9. Carefully fold back the insulation and remove insulation retainer plates and coil.
10. Replace or repair any insulation found to be torn or broken.
11. To reinstall new or cleaned coil, reverse steps 9 through 1.

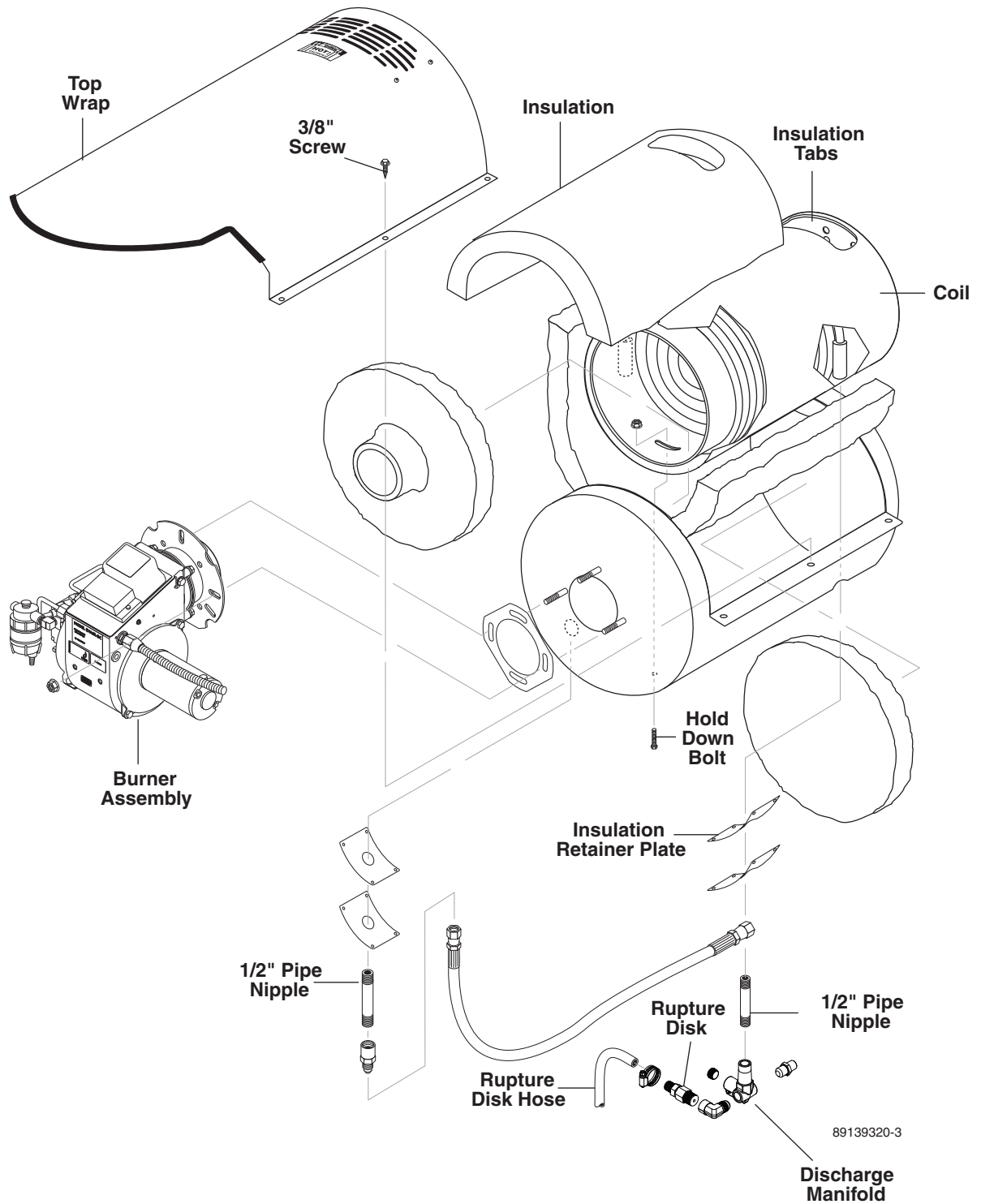
High Limit Hot Water Thermostat

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.

CAUTION: The thermostat uses a capillary tube. Do not bend or strike with any object.

ATTENTION: Le thermostat utilise un tube capillaire. Ne pas plier ou frapper avec un objet.

Coil Removal & Installation



Maintenance

Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Low Operating Pressure	Faulty pressure gauge	Test with 2nd gauge. If bad install new gauge.
	Insufficient water supply	Use larger garden hose; clean water filter at inlet. Clean screen inside float tank.
	Old, worn or incorrect spray nozzle	Match nozzle number to machine and/or replace with new nozzle.
	Belt slippage	Tighten or replace; use correct belt.
	Plumbing or hose leak	Check plumbing system for leaks. Retape leaks with teflon tape.
	Faulty or mis-adjusted unloader valve (Where applicable)	Adjust unloader for proper pressure. Install repair kit when needed. Test PSI with unloader removed, taking pressure directly off the pump.
	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.
	Low power supply	Check voltage of building and compare with requirements. Obtain a different power source.
	Detergent metering valve left open sucking air, or faulty metering valve	Close and/or replace metering valve.
Burner Will Not Light	Little or no fuel	Fill tank with fuel.
	Improper fuel or water in fuel	Drain fuel tank and fill with proper fuel.
	Plugged fuel filter	Replace as needed.
	Misadjusted burner air bands	Readjust air bands for clean burn.
	Little or no fuel pressure from fuel pump	Increase fuel pressure to specification on fuel pump and/or replace fuel pump.
	Faulty burner transformer	Test transformer for proper arc between contacts. Replace as needed.
	Disconnected or short in electrical wiring	All wire contacts should be clean and tight. No breaks in wire.
	Burner motor thermal protector tripped	If tripped, check voltage, connections, and extensions for cause. Check fuel pump shaft rotation for binding causing motor to overheat.
	Flex-coupling slipping on fuel pump shaft or burner motor shaft	Replace if needed.
	On-Off switch defective	Check continuity through burner switch.
	Heavy sooting on coil and burner can cause interruption of air flow and shorting of electrodes	Clean as required.
	Improper electrode setting	Clean and set according to diagram in Operators Manual.
	Fuel not reaching combustion chamber	Check fuel pump for proper flow. Check solenoid flow switch on units with spray gun control, for proper on-off fuel flow control.
	Clogged burner nozzle	Replace.
	Water not flowing through unloader	Open spray gun to allow water to flow.
Flow switch malfunction	Remove test for continuity and replace as needed.	
Fuel solenoid malfunction	Replace if needed	

PROBLEM	POSSIBLE CAUSE	SOLUTION
Machine Smokes While Burner Unit Is Running Or Unit Smokes At Cold-start Only When Burner Is Off	Improper fuel or water in fuel	Drain tank and replace contaminated fuel.
	Improper air adjustment	Readjust air bands on burner assembly.
	Fuel pressure is low <140 psi for burner	Adjust fuel pump pressure to specifications
	Air leaks in fuel lines	Check fuel lines for leaks or air bubbles. Tighten or replace as needed.
	Plugged or dirty burner nozzle	Replace nozzle Check parts breakdown for nozzle size
	Faulty burner nozzle spray pattern	Replace nozzle Check parts breakdown for nozzle size.
	Coil and burner assembly have heavy accumulation of soot	Remove coils and burner assembly, clean thoroughly Call local dealer.
	Misaligned electrode	Realign electrodes to specifications.
	Smoke stack has obstruction	Check for insulation blockage or other foreign objects
	Fuel Pressure is too high for clean burn (fuel PSI above >140 and below 200) and smokes when burner is off	Reduce fuel pressure PSI/Increase air band set for cleaner without max water heat loss
Low Water Temperature	Improper fuel or water in fuel	Drain fuel tank and replace with proper fuel.
	Low fuel pressure	Increase fuel pressure.
	Weak fuel pump	Check fuel pump pressure. Replace pump if needed.
	Fuel filter partially clogged	Replace as needed.
	Soot build up on coils	Clean coils with soot remover.
	Lime build up in coils	Clean inside of coils with coil clean.
	Improper burner nozzle	See parts list.
Water Temperature Too Hot	Incoming water to machine warm or hot	Lower incoming water temperature.
	Fuel pump pressure too high	See specifications on fuel pump for proper fuel pressure.
	Fuel pump defective	Replace fuel pump.
	Detergent line sucking air	Tighten all clamps. Check detergent line for holes.
	Defective high limit switch	Replace.
	Incorrect fuel nozzle size	See specifications for proper size.
	Insufficient water supplied	Check G.P.M. to machine.
	Restricted water flow	Check nozzle for obstruction, proper size.
Pump Motor Stops After A Few Minutes Of Operation, Or Starts Slow	Insufficient voltage	Use heavier drop cord and check voltage at receptacle. Check name plate for amperage draw.
	Plugged nozzle	Remove and clean nozzle. Turn on water pump and flush lines, replace nozzle.
	Wrong spray nozzle	See serial plate for minimum nozzle size.
	Automatic overload switch tripped	Allow motor to cool - switch will automatically reset.
	Motor wet	Allow to dry.
	Short in electrical wiring	Wire contacts should be clean and tight. No breaks in wires.

Maintenance

Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Pump Motor Stops After A Few Minutes Of Operation, Or Starts Slow (continued)	Coil liming buildup causing excessive pressure	See section on Preventative Maintenance.
	Water pump low or out of oil causing pump to bind up	Fill to correct level
Relief Valve Out Leaks Or Sprays Water	Spray nozzle plugged	Remove nozzle and clean out obstruction.
	Mis-adjusted or defective relief valve	Adjust or replace as needed.
	Scale or dirt plugging inside of coils	See "Preventative Maintenance Cleaning of Coil".
Detergent Not Drawing	Air leak	Tighten all clamps. Check detergent lines for holes.
	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 or injector	Clean and flush.
	Restrictor in float tank missing	Install restrictor.
	High viscosity of detergent	Dilute detergent to specifications.
Machine Will Not Draw Up Detergent	Clamps holding detergent lines are loose	Tighten clamps.
	Hole in detergent line(s)	Repair hole.
	Strainer basket plugged	Remove and clean.
Burner Motor Will Not Run	Overload protector tripped	Push reset button.
	Fuel pump seized	Replace fuel pump.
	Burner fan loose or misaligned	Position correctly, tighten set screw.
	Defective control switch	Replace switch.
	Loose wire	Check and replace or tighten wiring.
	Defective burner motor	Replace motor.
Excessive Vibration In Delivery Line	Irregular function of check valves, metering valves	Check and replace if necessary.
Temperature Relief Valve Leaks Water (Pump Protector)	Spray gun in OFF position with machine operating for an extended period of time	Open spray gun to cool circulating water.
	Relief valve defective	Replace valve.
	Particle between valve and seat	Remove internal parts and clean.
Burner Stays On When Spray Gun Is In Off Position	Fuel pump pressure too high	Lower fuel pressure to specifications.
	Flow switch malfunction	Test for continuity and replace as needed.
	Fuel solenoid defective	Replace fuel solenoid.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Pump Running Normally But Pressure Low	Pump sucking air	Check water supply and possibility of air seepage.
	Valves sticking	Check and clean or replace if necessary.
	Unloader valve seat faulty	Check and replace if necessary.
	Nozzle incorrectly sized	See serial plate for minimum nozzle size.
	Worn piston packing	Check and replace if necessary
Pump Noisy	Air in suction line	Check water supply and connections on suction line.
	Broken or weak inlet or discharge valve springs	Check and replace if necessary.
	Excessive temperature of liquid	Reduce to below 60°C (140°F).
	Foreign matter in valves	Check and clean if necessary.
	Worn bearings	Check and replace if necessary.
Presence Of Water In Oil	Oil seal worn	Check and replace if necessary.
	High humidity in air	Check and change oil twice as often.
	Piston packing worn	Check and replace if necessary.
Water Dripping From Under Pump	Piston packing worn	Check and replace if necessary.
	O.R. Plunger retainer worn	Check and replace if necessary.
	Cracked ceramics	Check and replace if necessary.
Oil Dripping	Oil seal worn	Check and replace if necessary.
	Cracked manifold	Check and replace if necessary.

Maintenance

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		
Pump Oil	Inspect	Oil level daily
10W-40 non-foaming	Change	After first 50 hours, then every 500 hours or annually
Check and Tighten Belts		Every 3 months
Remove Burner Soot		Annually
Burner Adjustment/Cleaning		Annually
Replace Burner Nozzle		Annually
Descale Coil		Annually (More often if required)
Replace High Pressure Nozzle		Every 6 months
Replace Quick Couplers		Annually
Clean Water Screen/Filter		Weekly
Replace HP Hose		Annually (If there are any signs of wear)
Grease Motor		Every 10,000 hours
Check Fuel Filter		Every 3 months
Check Safety Controls		Daily

Oil Change Record

Check pump oil level before first use of your new Power Washer. Change pump oil after first 50 hours and every year or 500 hours thereafter. Use SAE 10W-40 non-foaming oil.

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

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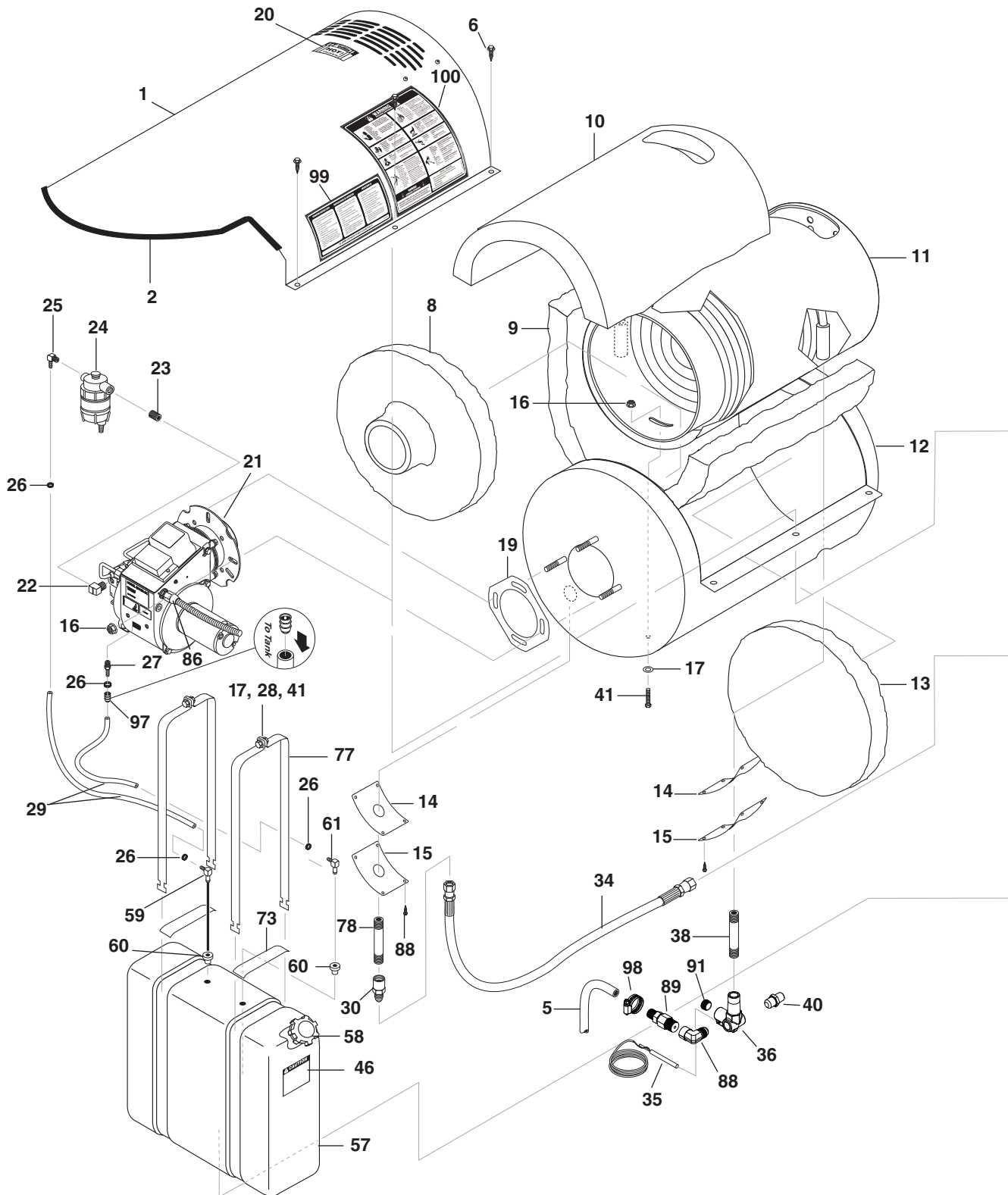
Parts

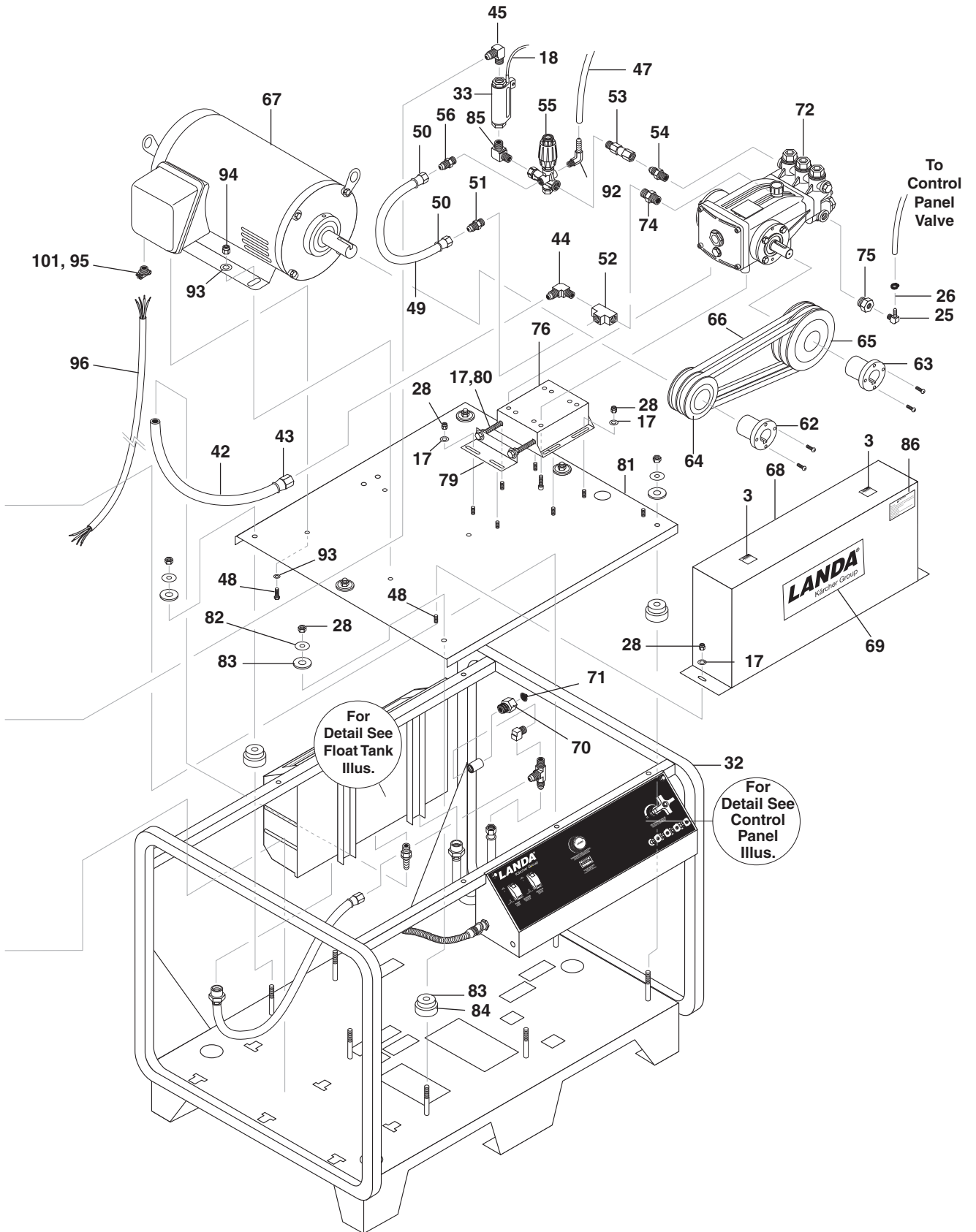
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**SEHW6 - 3500
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LANDA SEHW

Landa SEHW Left Side





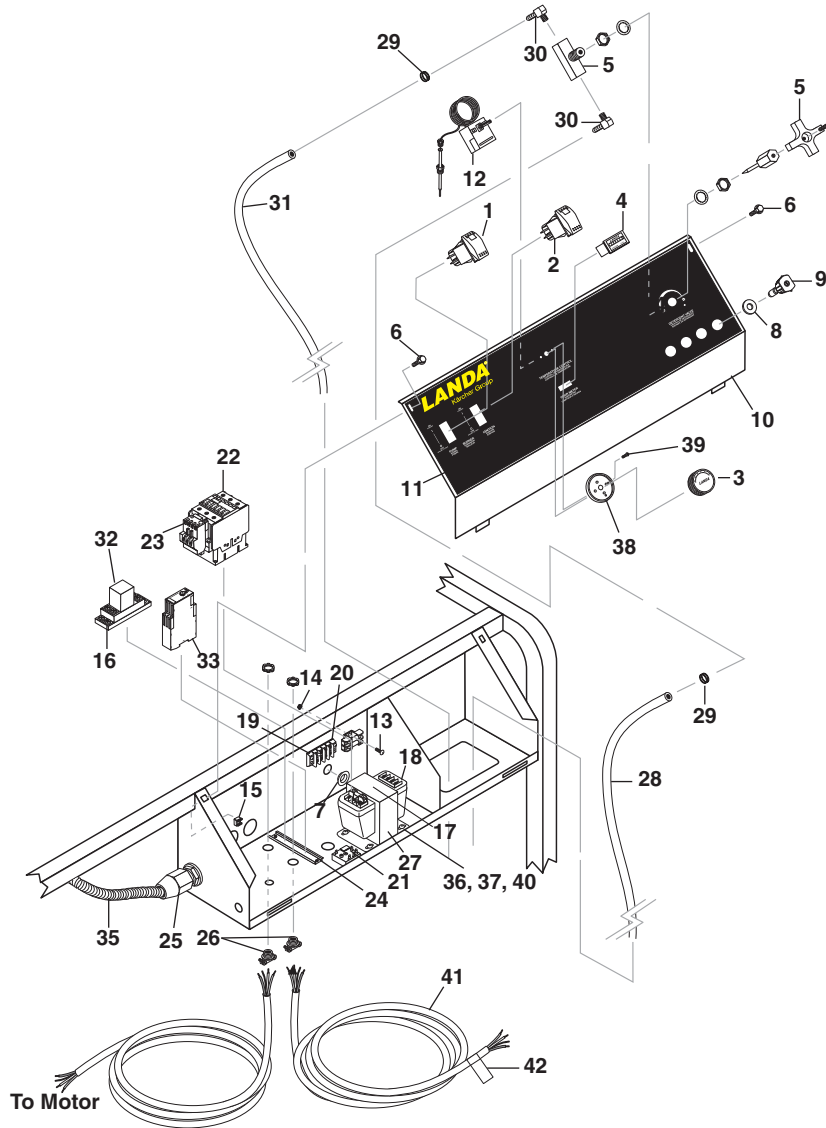
REF	PART NO.	QTY	DESCRIPTION	NOTES
1	8.912-192.0	1	TOP WRAP, SS	
2	9.802-071.0	36"	TRIM, 1/16" BLACK	
3	8.932-965.0	2	LABEL, WARNING - EXPOSED PULLEYS	
4	8.707-019.0	1	HOSE BARB, 1/2" BARB X 3/8" MPT, PUSH-ON	
5	9.802-260.0	21"	HOSE 5/8"	
6	9.802-766.0	6	SCREW, 3/8" X 1" HX WASH HEAD SHEET METAL	
7	8.706-168.0	1	ELBOW, 3/8" MALE	
-	9.802-024.0	1	ELBOW, STREET, 3/8" X 1/2 M STEEL	(AUTO START ONLY)
8	9.802-894.0	1	INSULATION, BURNER HEAD, W/HOLE	
9	9.802-896.0	1	INSULATION, BLANKET - NO FOIL, 24" X 57"	
10	9.802-902.0	1	INSULATION, BLANKET - DIE CUT, 28" X 24"	
11	8.912-239.0	1	COIL, SCHEDULE 80 W/MILD WRAP	
12	8.916-486.0	1	BOTTOM WRAP, WELDMENT, WRINKLE BLACK	
13	9.802-883.0	1	INSULATION, FRONT HEAD, NO HOLE	
14	8.933-009.0	2	GASKET, BURNER PLATE	
15	9.803-132.0	2	INSULATION RETAINER PLATE	
16	9.802-781.0	5	NUT, 3/8" FLANGE, WHIZ LOC, NC	
17	9.802-807.0	26	WASHER, 3/8" FLAT, SAE	
18	8.724-844.0	1	SWITCH, REED, REPLACEMENT, MV60	
19	9.802-651.0	2	GASKET, STANDARD - LARGE	
20	9.800-006.0	1	LABEL, "HOT/CALIENTE" W/ARROWS WARNING	
21	-	-	BURNER ASSEMBLY	SEE SPECIFICATIONS PAGE
22	8.706-827.0	1	ELBOW, 1/4" STREET, BRASS	
23	8.706-777.0	1	NIPPLE, 1/4" CLOSE	
24	8.709-158.0	1	FILTER, FUEL/OIL H2O SEPARATOR	
25	8.706-958.0	2	HOSE BARB, 1/4" BARB X 1/4" PIPE, 90°	
26	8.709-069.0	5	CLAMP, SCREW, 5/16"W, 1/4-5/8"D, SS	
27	8.706-941.0	1	HOSE BARB, 1/4" BARB X 1/4" PIPE	
28	9.802-779.0	22	NUT, 3/8", ESNA, NC	
29	9.802-254.0	36"	HOSE, 1/4", PUSH-ON	
30	8.706-319.0	1	ADAPTER, 1/2" JIC X 1/2" FEMALE	
31	8.706-207.0	1	ELBOW, 3/8" STREET	
32	8.912-260.0	1	CAGE, SEHW	
33	8.933-006.0	1	SWITCH, FLOW MV60	
34	8.918-424.0	1	HOSE, 25" X 3/8", 100R2, PRESSURE LOOP	
35	8.750-094.0	1	THERMOSTAT	
36	9.149-003.0	1	DISCHARGE MANIFOLD	
37	8.716-547.0	1	CONNECTOR, STRAIGHT	
38	9.802-014.0	2	NIPPLE, 1/2" X 3", GALVANIZED	
39	9.802-797.0	8	SCREW, #10 X 1/2" HEX HEAD, TEK, SS	
40	9.802-171.0	1	NIPPLE, 3/8" X 3/8" MALE ST	
41	9.802-727.0	4	BOLT, 3/8"X 1-3/4" TAP	

REF	PART NO.	QTY	DESCRIPTION	NOTES
42	9.802-261.0	24"	HOSE, 3/4", PUSH-ON	
43	9.802-152.0	1	SWIVEL, 3/4" JIC FEM, PUSH-ON	
44	9.802-132.0	1	ELBOW, 3/4" JIC X 1/2" PIPE	
45	9.802-039.0	1	ELBOW, 1/2" JIC X 3/8" 90°	
46	9.800-002.0	1	LABEL, USE ONLY KEROSENE	
47	9.802-254.0	34"	HOSE, 1/4" PUSH-ON	
48	8.718-693.0	4	BOLT, 1/2" X 2"	
49	9.802-259.0	18"	HOSE, 1/2", PUSH-ON	
50	9.802-151.0	2	SWIVEL, 1/2" JIC FEM, PUSH-ON	
51	9.802-128.0	1	NIPPLE, 1/2" JIC X 1/2" PIPE	
52	8.706-844.0	1	TEE, 1/2" FEMALE, PIPE	
53	9.802-048.0	1	SWIVEL, 1/2" JIC FEM, 3/8" PIPE	
-	9.802-036.0	1	NIPPLE, 1/2" JIC, 3/8" NPT	(AUTO START ONLY) NOT SHOWN
54	9.802-036.0	1	NIPPLE, 1/2" JIC, 3/8" PIPE	
-	9.802-048.0	1	SWIVEL, 1/2" JIC FEMALE, 3/8" MALE	(AUTO START ONLY) NOT SHOWN
55	8.750-299.0	1	UNLOADER, VRT 3, 8 GPM @ 4500 PSI	
-	8.715-489.0	1	UNLOADER, VB9 W/SWITCH	(AUTO START ONLY) NOT SHOWN
56	9.802-127.0	1	NIPPLE, 1/2" JIC X 3/8"	
57	8.706-603.0	1	TANK, FUEL, 10 GALLON, POLY, GREEN	
58	9.802-089.0	1	CAP, FUEL TANK, PLASTIC	
59	8.706-496.0	1	DIP TUBE, PLASTIC, W/ELBOW	
60	9.802-053.0	2	BUSHING, RUBBER, NITRILE	
61	9.802-054.0	1	ELBOW, FUEL TANK	
62	-	-	MOTOR BUSHING	SEE SPECIFICATIONS PAGE
63	-	-	PUMP BUSHING	SEE SPECIFICATIONS PAGE
64	-	-	MOTOR PULLEY	SEE SPECIFICATIONS PAGE
65	-	-	PUMP PULLEY	SEE SPECIFICATIONS PAGE
66	-	-	MOTOR BELT	SEE SPECIFICATIONS PAGE
67	-	-	MOTOR	SEE SPECIFICATIONS PAGE
68	8.912-273.0	1	BELT GUARD CMPL, SEHW	
69	8.900-271.0	1	LABEL, LANDA	
70	9.802-146.0	1	SWIVEL, 1/2" MP X 3/4" GHF W/STRAINER	
71	8.707-055.0	1	STRAINER, INLET GH	
72	-	-	PUMP ASSEMBLY	SEE SPECIFICATIONS PAGE
73	9.802-193.0	15"	GASKET, 1/4" NEOPRENE	
74	8.706-797.0	1	NIPPLE, 1/2" HEX	
75	8.706-915.0	1	BUSHING, 1/2" X 1/4" PIPE	
76	9.803-131.0	1	RAIL PUMP OR GENERATOR COMBO	
77	8.912-699.0	4	STRAP, FUEL TANK W/HOLE	
78	9.802-015.0	1	NIPPLE, 1/2" X 4" GALV. SCH 80	
79	9.803-136.0	1	RETAINER, PUMP TAKE UP	

REF	PART NO.	QTY	DESCRIPTION	NOTES
80	9.802-733.0	2	BOLT, 3/8" X 3-1/2", TAP	
-	9.802-789.0	2	NUT, 3/8", HEX, NC	NOT SHOWN
81	8.912-347.0	1	PLATFORM, POWER	
82	9.802-811.0	8	WASHER, 3/8" X 1-1/2", FENDER, SAE	
83	9.802-067.0	16	BUMPER PAD, ENGINE	
84	9.802-066.0	8	PAD, SOFT RUBBER, 50 DURO	
85	8.716-547.0	1	CONNECTOR, STRAIGHT	
86	9.800-049.0	1	LABEL, MANUFACTURER'S CLEANING SOLUTIONS	
87	8.706-141.0	1	COUPLING 1/2"	
88	9.802-024.0	1	ELBOW, 3/8" MPT x 1/2" FPT STREET, STEEL	
89	8.707-381.0	1	RUPTURE DISC ASSY, 8500#	
90	9.196-012.0	1	SCREW, 10-24 X 1/4"	
91	8.706-248.0	1	PLUG, 3/8"	
92	8.706-965.0	1	HOSE BARB, 1/4" BARB X 38" NPT 90°	
93	9.802-809.0	8	WASHER, 1/2" FLAT	
94	8.718-829.0	4	NUT, 1/2", ESNA	
95	8.716-564.0	1	STRAIN RELIEF, CG100-950 1" GRY(6/4 COR	230V 3PH
-	9.803-279.0	1	STRAIN RELIEF, CG100-750 1" YEL(10-4 COR	460V 3PH
96	8.715-933.0	5 FT.	CORD, SERV, 6/4, SEOOW, /FT	230V 3PH
-	9.802-437.0	5 FT.	CORD, SERV, 10/4, SEOOW, /FT	460V 3PH
97	8.754-911.0	1	CHECK VALVE, 1 WAY, 1/4"BARB	
98	9.803-559.0	1	CLAMP,SCREW,9/16"W, 1-1/4"OD, SS	
99	8.917-587.0	1	LABEL, OPERATING INSTRUCTIONS	
100	8.917-588.0	1	LABEL, WARNING	
101	8.756-863.0	2	WASHER, REDUCING 1-1/2"-1" CONDUIT	

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	9.802-084.0	1	TANK, PLASTIC UNIVERSAL	
2	8.900-832.0	1	LABEL, STRIPE	
3	9.802-106.0	1	PLUG, FLOAT TANK	(ITEMS 3 - 6)
-	9.802-263.0	1	TUBING, 5/16" X 9/16" RUBBER	
4	9.802-822.0	1	SCREW, 5/16" - 18 X 1-1/2" SS, BUTTON SOCKET	
5	9.802-824.0	1	WASHER, 5/16", SS	
6	9.802-823.0	1	NUT, 5/16" - 18, WING, SS	
7	8.757-391.0	1	ELBOW, 1/2" M SAE X 1/2" NPTF (M)	
8	8.750-743.0	1	BULKHEAD, 1/2" POLYPRO	
9	8.711-775.0	1	INLET HOSE, 13" SUPPLY WATER	
10	9.802-257.0	1	INLET HOSE, 30" SUPPLY WATER	
11	8.912-233.0	1	LID AND HINGES	
12	9.802-185.0	2	VALVE, FLOAT TANK, VERTICAL	
13	9.802-146.0	1	SWIVEL, 1/2" MP X 3/4" GHF W/STRAINER	
14	8.707-055.0	1	STRAINER, INLET GARDEN HOSE	
15	8.706-829.0	1	ELBOW, 1/2" STREET, BRASS	
16	9.802-134.0	1	TEE, 1/2" X 1/2" JIC #51	
17	9.802-799.0	3	SCREW, #14 X 1", TEK, BLACK	
18	9.804-082.0	3	WASHER, 1/4", SAE, BLACK	
19	8.757-505.0	1	HOSE BARB BRASS 3/4" BARB X 1/2"	
20	8.707-061.0	1	STRAINER, 1/2" BASKET	
21	9.802-770.0	2	SCREW, 1/4" X 1" BH, SOC	
22	9.802-794.0	2	NUT, CAGE, 1/4" X 12 GAUGE	
23	8.757-193.0	1	ADAPTER. 12" F-NPTF x 1/2" M-NPTF, BRASS	
24	9.802-254.0	34"	HOSE, 1/4" PUSH-ON	

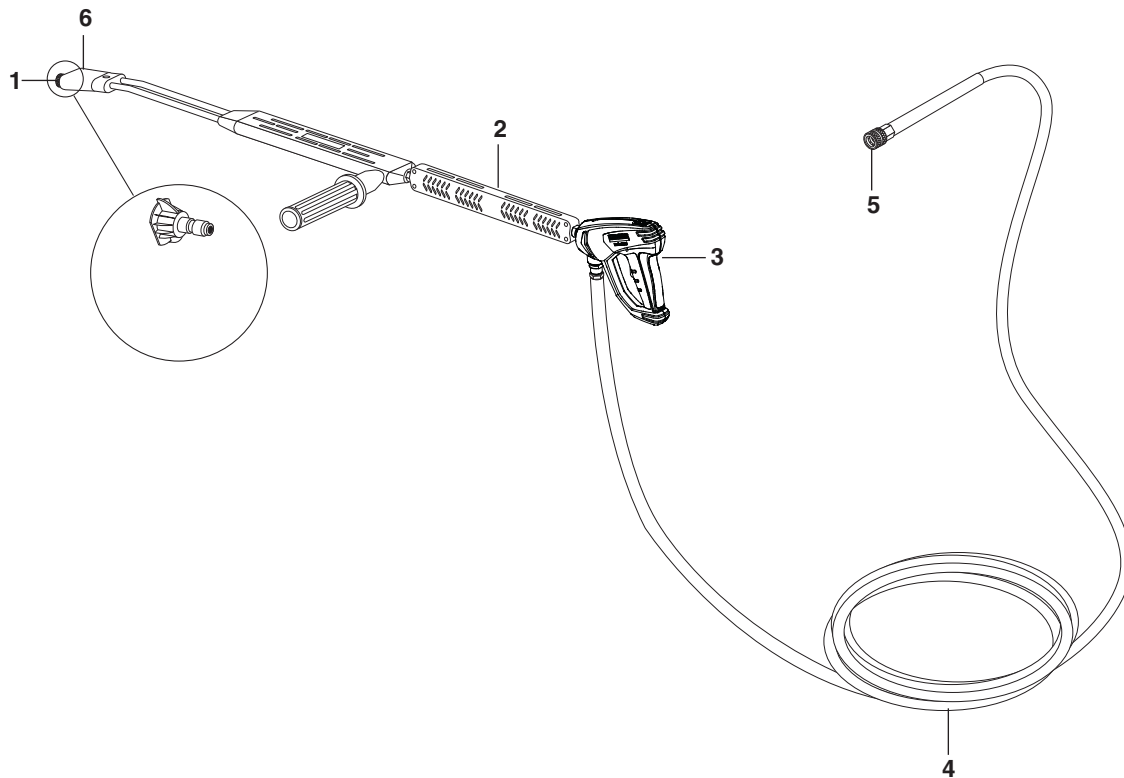
Control Panel



REF	PART NO.	QTY	DESCRIPTION	NOTES
1	9.802-451.0	1	SWITCH, ROCKER, BLACK, BURNER (GREEN LENS)	
2	9.802-452.0	1	SWITCH, ROCKER, RED, PUMP ON/OFF	
-	9.802-451.0	1	SWITCH, ROCKER, BLACK, BURNER GREEN LENS	(AUTO START ONLY)
3	8.750-096.0	1	KNOB, THERMOSTAT 150/302 F	
4	9.802-283.0	1	HOUR METER	
5	8.707-317.0	1	VALVE, CONTROL, METERING	
-	9.802-810.0	1	WASHER, 5/8" SAE, FLAT ZINC	NOT SHOWN
-	8.719-011.0	1	WASHER, 5/8" INTERNAL STAR-ZINC	NOT SHOWN
6	9.802-764.0	2	SCREW, 10/32" X 3/4" HEX WASH SLOT BLACK	
7	9.802-103.0	1	BUSHING, SNAP, 5/8"	
8	9.802-064.0	4	GROMMET, 1/8" RUBBER	

REF	PART NO.	QTY	DESCRIPTION	NOTES
9	8.712-358.0	1	NOZZLE, SAQCMEG, 15055, YELLOW	
-	8.712-359.0	1	NOZZLE, SAQCMEG, 25055, GREEN	
-	8.712-360.0	1	NOZZLE, SAQCMEG, 40055, WHITE	
10	8.912-359.0	1	PANEL, SEHW CONTROL PANEL	
11	8.900-295.0	1	LABEL, SEHW CONTROL PANEL	
12	8.750-094.0	1	THERMOSTAT	
13	9.802-749.0	2	SCREW, 8/32"-3/4"	
14	9.802-785.0	2	NUT, 8/32	
15	9.802-791.0	2	NUT, CAGE, 10/32" X 16 GAUGE	
16	9.802-467.0	1	BASE, RELAY SH2B-05	
17	-	-	PRIMARY TRANSFORMER FUSE	SEE SPECIFICATIONS PAGE
18	-	-	SECONDARY TRANSFORMER FUSE	SEE SPECIFICATIONS PAGE
19	9.802-494.0	2	BAR, JUMPER	
20	9.802-491.0	1	BLOCK, STRIP, TERMINAL, 4-POLE	
-	9.802-749.0	2	SCREW, 8/32" X 3/4"	NOT SHOWN
-	9.802-785.0	-	NUT, 8/32"	NOT SHOWN
21	9.802-472.0	1	TIMER, SOLID STATE 120V, 5-60 MIN ADJ.	(AUTO START ONLY)
22	-	-	CONTACTOR	SEE SPECIFICATIONS PAGE
23	-	-	OVERLOAD RELAY	SEE SPECIFICATIONS PAGE
24	9.802-457.0	6"	DIN RAIL TRACK	
25	8.716-547.0	1	CONNECTOR, STRAIGHT	
26	8.716-564.0	1	STRAIN RELIEF, CG100-950 1" GRY(6/4 COR	230V 3PH
-	9.803-279.0	1	STRAIN RELIEF, CG100-750 1" YEL(10-4 COR	460V 3PH
27	-	-	TRANSFORMER	SEE SPECIFICATIONS PAGE
28	9.802-251.0	10 ft.	TUBE, 1/4" X 1/2" CLEAR VINYL	
-	8.707-058.0	1	STRAINER, 1/4" BRASS	
29	6.390-126.0	2	CLAMP, HOSE, .46-, .54 ST	
30	8.706-958.0	2	HOSE BARB, 1/4" BARB X 1/4" PIPE, 90°	
31	9.802-254.0	27"	HOSE, 1/4" PUSH-ON	
32	9.802-468.0	1	RELAY, 120V RH2B-UL-AC	
33	8.751-306.0	1	TIMER, MULTI-FUNCTION	
34	9.802-762.0	1	SCREW, 10/32" X 1-1/4" (GROUND)	NOT SHOWN
-	9.802-695.0		NUT, 10/32"	NOT SHOWN
-	9.800-040.0	1	LABEL, GROUND	NOT SHOWN
35	9.802-448.0	15"	CONDUIT, FLEX	
36	9.802-759.0	3	SCREW, 10/32" X 3/4"	
37	9.802-771.0	3	NUT, 10/32" KEPS	
38	8.712-190.0	1	BEZEL, THERMOSTAT	
39	8.718-779.0	2	SCREW, 4 MM X 6 MM	
40	9.804-082.0	3	WASHER, 1/4 FLAT, ZINC	
41	8.715-933.0	5 FT.	CORD, SERV, 6/4, SEOOW, /FT	230V 3PH
-	9.802-437.0	5 FT.	CORD, SERV, 10/4, SEOOW, /FT	460V 3PH
42	8.932-969.0	1	LABEL, WARNING, SERVICE CORD	

Hose, Spray Gun & Wand



REF	PART NO.	QTY	DESCRIPTION	NOTES
1	9.802-165.0	1	QUICK COUPLER, 1/4", MALE	
-	9.802-096.0	1	QUICK COUPLER O-RING, 1/4"	REPLACEMENT ONLY NOT SHOWN
2	8.711-293.0	1	WAND, VP ZINC 1/4", AL344 W/COUPLER, W/SOAP NOZZLE	
-	83-SSVPKIT	1	REPAIR KIT, AR SS	NOT SHOWN
3	4.775-054.0	1	EASY! FORCE ADVANCED KNA	
4	8.739-072.0	1	HOSE, 3/8" X 50', 2 WIRE TUFF-SKIN	
5	9.802-166.0	1	QUICK COUPLER, 3/8", FEMALE	
-	9.802-100.0	1	QUICK COUPLER O-RING, 3/8"	REPLACEMENT ONLY (ALL MODELS)
6	9.802-286.0	1	NOZZLE ONLY, BRASS SOAP NOZZLE, 1/8"	NOT SHOWN
7	8.707-139.0	1	COUPLER, 1/4" PLUG, MALE, STEEL/ZINC	NOT SHOWN
8	9.802-164.0	1	COUPLER, 1/4" SOCKET, FEMALE, BRASS	NOT SHOWN

Wayne Burner Specifications

Model #	Burner Assy No.	Fuel Nozzle w/ 100 psi Check Valve
SEHW6-35024B	8.756-413.0	8.756-900.0
SEHW6-35024C	8.756-413.0	8.756-900.0

Specifications

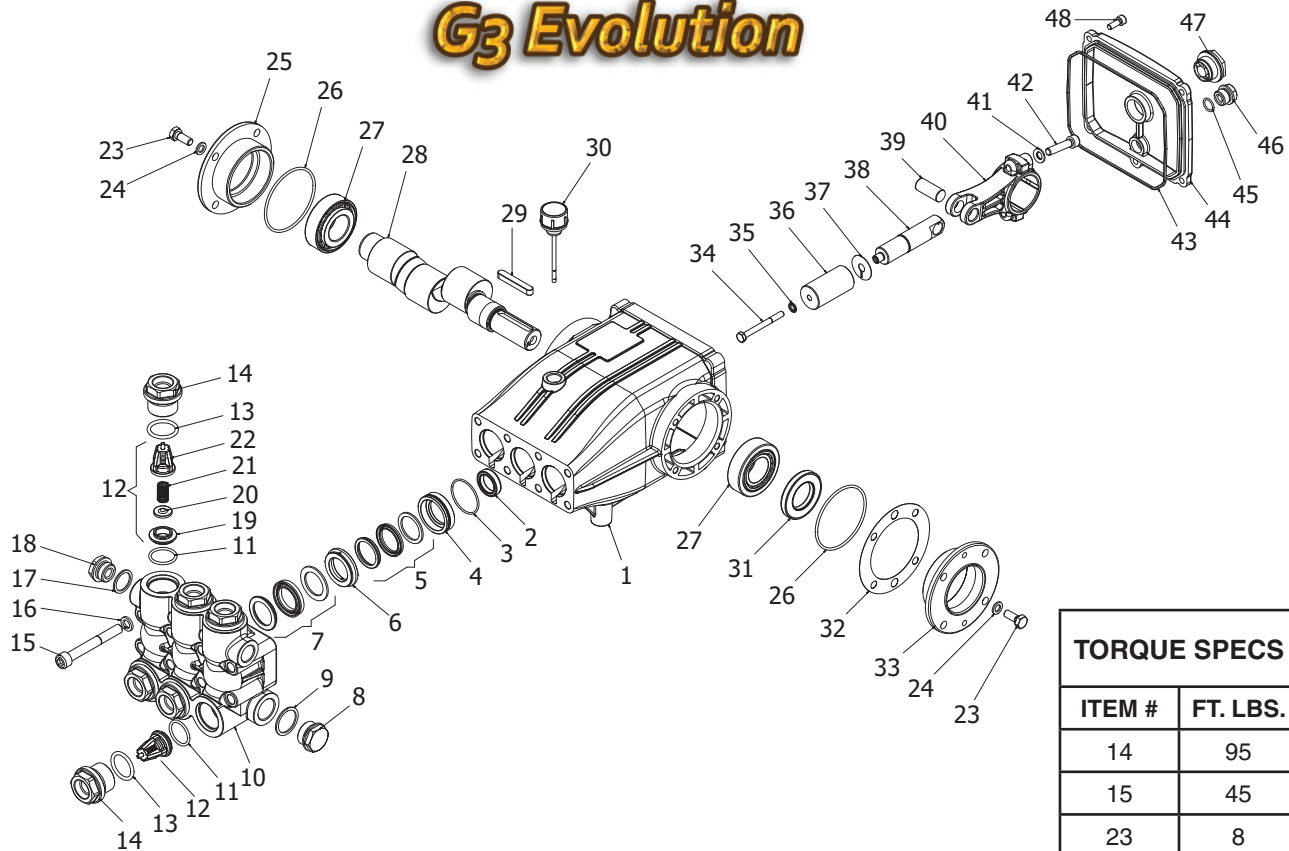
PUMP							
Model #	PSI Nozzle	Pump Model	Part #	Pulley	Pulley Part #	Bushing	Bushing Part #
6-35/B	5.5	LT6036/L	8.921-713.0	2BK60H	9.802-387.0	25mm	9.802-403.0
6-35/C	5.5	LT6036/L	8.921-713.0	2BK60H	9.802-387.0	25mm	9.802-403.0

MOTOR						
Model #	Size	Voltage/PH	Hertz	Part #	Pulley	Pulley Part #
6-35/B	15-3 HP	230V/3PH	60	8.756-429.0	2TB40H	8.715-598.0
6-35/C	15-3 HP	460V/3PH	60	8.756-429.0	2TB40H	8.715-598.0

MOTOR						
Model #	Bushing	Bushing Part #	Belt Size/Qty	Belt Part #	Motor Contactor	Motor Overload
6-35/B	P1x1-5/8"	9.803-980.0	BX37(2)	8.715-698.0	8.724-281.0	8.724-307.0
6-35/C	P1x1-5/8"	9.803-980.0	BX37(2)	8.715-698.0	8.724-276.0	8.724-304.0

CONTROLS					
Model #	Stepdown Transformer	Primary Fuse	Primary Fuse Part #	Secondary Fuse	Secondary
6-35/B	9.802-550.0	3Amp	9.802-465.0	(2)8 Amp	9.802-460.0
6-35/C	9.802-550.0	3Amp	9.802-465.0	(2)8 Amp	9.802-460.0

G3 Evolution



TORQUE SPECS	
ITEM #	FT. LBS.
14	95
15	45
23	8
34	10
42	30
48	8

REF	PART NO.	QTY	DESCRIPTION	NOTES
1	8.752-825.0	1	CRANKCASE	
2	-	3	PLUNGER OIL SEAL	SEE KITS TABLE
3	-	3	O-RING Ø1.78 X 37.82	SEE KITS TABLE
4	-	3	PRESSURE RING, 18MM	SEE KITS TABLE
5	-	3	U-SEAL, 18MM	SEE KITS TABLE
6	-	3	INTERMEDIATE RING, 18MM	SEE KITS TABLE
7	-	3	U-SEAL, 18MM	SEE KITS TABLE
8	9.802-926.0	1	BRASS PLUG, G1/2	
9	9.803-199.0	1	COPPER WASHER 1/2	
10	8.753-816.0	1	MANIFOLD HOUSING	
11	9.804-498.0	6	O-RING Ø2.62 X 25.1	SEE KITS TABLE
12	-	6	VALVE ASSEMBLY	SEE KITS TABLE
13	9.803-193.0	6	O-RING 3068	SEE KITS TABLE
14	9.802-928.0	6	VALVE PLUG	
15	8.753-817.0	8	MANIFOLD STUD BOLT	
16	9.802-890.0	8	LOCK WASHER	

REF	PART NO.	QTY	DESCRIPTION	NOTES
17	8.719-008.0	1	COPPER WASHER 3/8	
18	8.707-262.0	1	BRASS PLUG 3/8	
19	-	6	VALVE SEAT	SEE KITS TABLE
20	-	6	VALVE PLATE	SEE KITS TABLE
21	-	6	VALVE SPRING	SEE KITS TABLE
22	-	6	VALVE CAGE	SEE KITS TABLE
23	8.752-830.0	8	HEX SCREW	
24	9.802-884.0	8	WASHER	
25	9.803-182.0	1	CLOSED BEARING HOUSING	
26	9.803-186.0	2	O-RING Ø2.62 X 71.12	
27	9.803-160.0	2	ROLLER BEARING	
28	8.753-818.0	1	CRANKSHAFT Ø25 (4540)	
-	8.752-827.0	1	CRANKSHAFT Ø25 (6036)	
29	9.803-167.0	1	CRANKSHAFT KEY	
30	8.752-834.0	1	OIL DIP STICK	
31	9.803-139.0	1	CRANKSHAFT SEAL	
32	9.803-177.0	2	SHIM	
33	9.803-181.0	1	BEARING HOUSING	
34	8.752-841.0	3	PLUNGER BOLT	SEE KITS TABLE
35	8.752-820.0	3	BONDED SEAL	SEE KITS TABLE
36	8.753-819.0	3	PLUNGER, 18MM	SEE KITS TABLE
37	8.752-823.0	3	COPPER SPACER	SEE KITS TABLE
38	8.753-820.0	3	PLUNGER ROD	
39	8.752-822.0	3	CONNECTING ROD PIN	
40	8.752-821.0	3	CONNECTING ROD	
41	9.802-889.0	6	SPRING WASHER	
42	9.802-937.0	6	CONNECTING ROD SCREW	
43	9.803-194.0	1	O-RING Ø2.62 X 152.07	
44	8.752-826.0	1	CRANKCASE COVER	
45	9.803-906.0	1	O-RING Ø1.78 X 14.00	
46	8.707-262.0	1	BRASS PLUG G3/8	
47	9.803-202.0	1	SIGHT GLASS G3/4	
48	8.752-824.0	5	COVER SCREW	

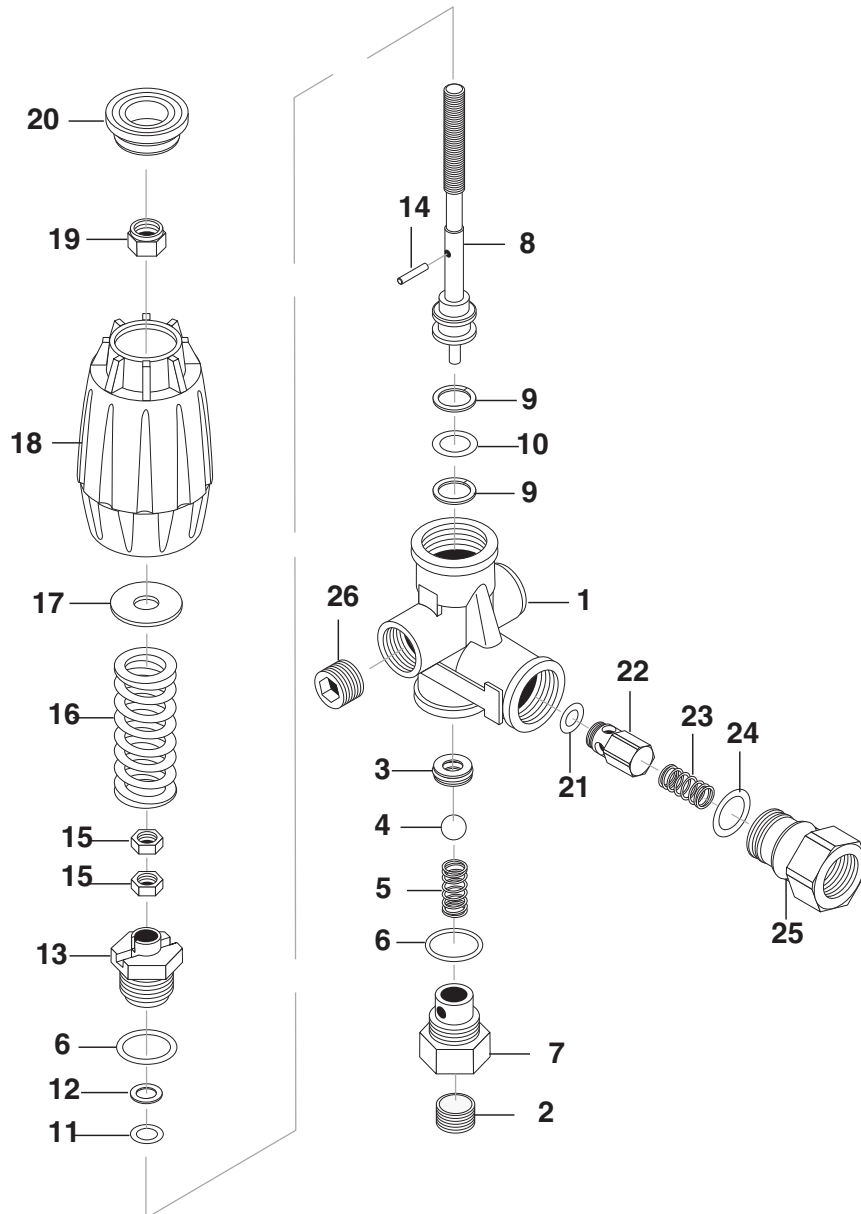
KIT NUMBERS	8.753-821.0	8.753-822.0	8.753-823.0	8.753-824.0	8.752-835.0
KIT DESCRIPTION	Plunger Seals 18 mm	Seal Packing 18 mm	Plunger 18 mm	Complete Valve	Plunger Oil Seals
ITEMS NUMBERS INCLUDED	3, 5, 7	3, 4, 5, 6, 7,	34, 35, 36, 37	11, 12, 13	2
NO. OF CYLINDERS KIT WILL SERVICE	3	1	1	6	3

VRT3 Unloader

8.750-297.0, 8 GPM, 2320 PSI

8.750-298.0, 8 GPM, 3630 PSI

8.750-299.0, 8 GPM, 4500 PSI



REF	PART NO.	QTY	DESCRIPTION	NOTES
25	8.750-713.0	1	OUTLET FITTING	
18	8.750-712.0	1	KNOB, UNLOADER	
-	8.750-709.0	-	REPAIR KIT, VRT3, 2320/3630 PSI	
-	8.750-710.0	-	REPAIR KIT, VRT3, 4500 PSI	
-	-	-	(KIT ITEMS: 3, 4, 6, 9-12, 21, 24)	

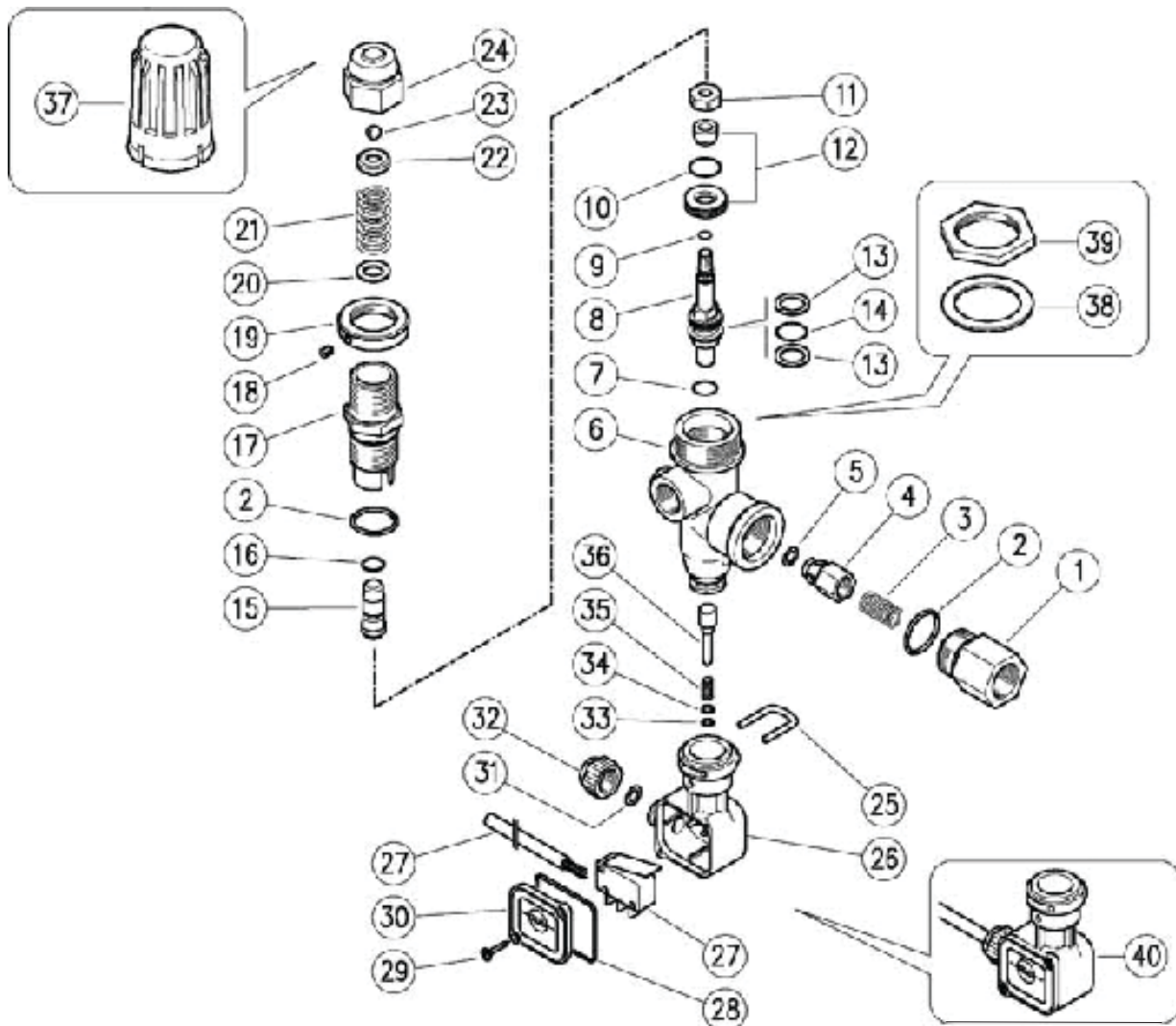
Unloader Adjustment Procedures

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.
6. Remove the adjustment knob (Item 18), tighten the lower nut (Item 15) tightly against the upper nut (Item 15). Re-attach 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).

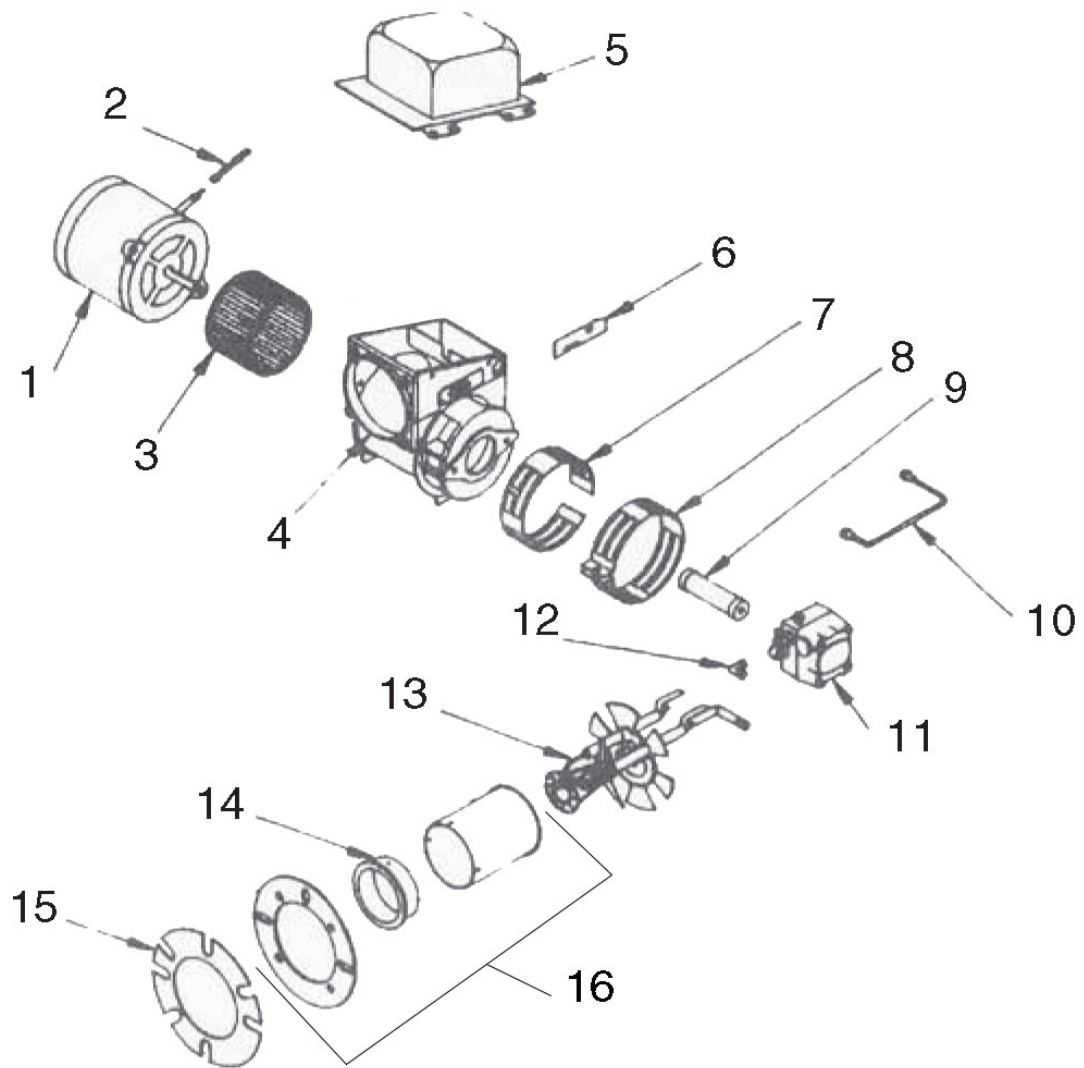
*If adjustment knob (Item 18) **DOES NOT** make contact with upper nut (Items 15), remove adjusting knob (Item 18), re-adjust (raise) nuts (Items 15) on stem (Item 8) and re-attach adjustment knob (Item 18), then repeat step #6.

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.

#5-3027



REF	PART NO.	QTY	DESCRIPTION	NOTES
1	12-60005831	1	3/8" BSP F OUTLET FITTING	
2	12-10307002	2	O-RING 1.78 X 18.77MM	INCLUDED IN REPAIR KIT
3	12-60005351	1	SPRING	
4	12-60005231	1	CHECK VALVE	
5	12-10321300	1	O-RING 3 X 6MM	INCLUDED IN REPAIR KIT
6	12-60120135	1	VB8 BRASS BODY	
7	12-10317008	1	O-RING 2.62 X 7.6	INCLUDED IN REPAIR KIT
8	12-60120631	1	PISTON	
9	12-10300101	1	O-RING 1 X 4MM	INCLUDED IN REPAIR KIT
10	12-10306601	1	O-RING 1.78 X 15.6MM	INCLUDED IN REPAIR KIT
11	12-60120531	1	M6 NUT	
12	12-60222120	1	VB8 SEAT & SHUTTER	INCLUDED IN REPAIR KIT
13	12-10402100	2	BACK RING 11.4 X 15.9	INCLUDED IN REPAIR KIT
14	12-10317500	1	O-RING 2.62 X 10.77MM	INCLUDED IN REPAIR KIT
15	12-60120431	1	SPRING GUIDE	
16	12-10316701	1	O-RING 2.62 X 5.23MM	INCLUDED IN REPAIR KIT
17	12-60120331	1	PISTON HOUSING	
18	12-16210000	1	M4 X 4MM DOWEL	
19	12-60170431	1	M22 NUT	
20	12-14371900	1	WASHER 9 X 15MM	
21	12-60120861	1	SPRING 3 X 33MM	
22	12-60121031	1	UPPER FRAME	
23	12-14742100	1	1/4" BALL	
24	12-60120931	1	BRASS CAP	
25	12-29008751	1	SST CLIP	
26	12-29008984	1	PLASTIC HOUSING	
27	12-12500600	1	EL. CABLE & MICRO SWITCH	
28	12-10320601	1	O-RING 2.62 X 28.25MM	
29	12-16302000	2	2.5 X 12MM SCREW	
30	12-29008884	1	COVER	
31	12-10316900	1	O-RING 2.62 X 6.02MM	
32	12-29008284	1	BLACK NUT - 40 BAR	
33	12-10303800	1	O-RING 1.78 X 3.68	
34	12-14351900	1	WASHER 4 X 8MM	
35	12-60230351	1	SPRING	
36	12-60128131	1	PR 5 PIN	
37	12-60120284	1	PLASTIC HANDLE (83-60129000)	
38	12-14358200	1	WASHER D. 30MM (8360129000)	
39	12-60225431	1	M30 NUT (83-60129000)	
40	12-29009624	1	PR5 PL. HOUSING KIT	
-	12-60121224	-	VB8 REPAIR KIT	



REF	PART NO.	QTY	DESCRIPTION	NOTES
1	8.756-436.0	1	MOTOR, 1/4 120V 50-60HZ	
2	13121	1	MOTOR CORD COVER	
3	8.756-438.0	1	FAN 4.00"W X 6.25"D 1/2" BORE	
4	8.700-735.0	1	BURNER HOUSING-PAINTED	
5	8.700-802.0	1	IGNITOR, 120V, SIDE/EH-EHA MOUNT	
6	13392	1	SLOT COVER PLATE	
7	8.700-732.0	1	AIR BAND - INNER 8 SLOT	
8	8.700-729.0	1	AIR BAND - OUTER 8 SLOT	
9	8.756-715.0	1	COUPLING - A/B PUMP	
10	8.700-704.0	1	OIL LINE ASSEMBLY	
11	8.756-290.0	1	PUMP, COMBO 12V/24V	
12	13494	1	BRASS 90° ELBOW	
13	8.756-704.0	1	ASSY, BURNER GUN, RG/SST/2"BB	
14	8.700-724.0	1	AIR CONE #4A	
15	8.700-692.0	2	GASKET E & M SERIES BURNERS	
16	8.756-305.0	1	FLANGE, AIR TUBE, WELDED 1.75" "E"	
17	2794-011	1	PEDESTAL	NOT SHOWN

GUN ASSEMBLY DETAIL				
1	8.700-706.0	1	ELECTRODE SUPPORT KIT	NOT SHOWN

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