

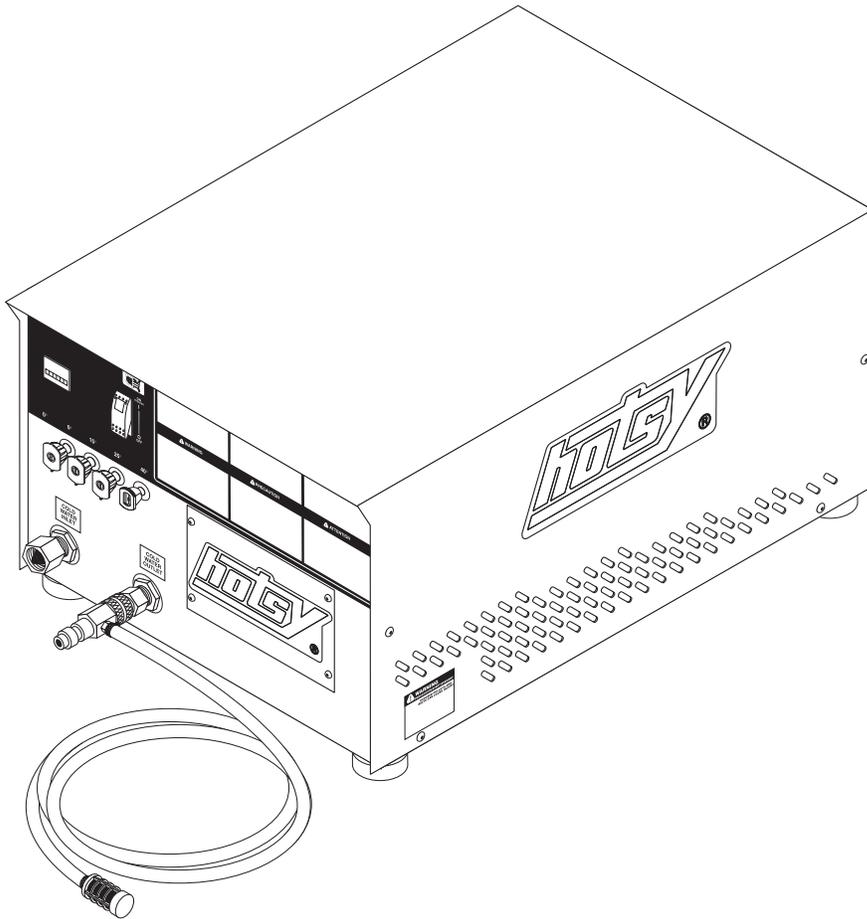
1700 Series

Cold Water - Electric Powered -
Stationary



OPERATOR'S MANUAL

PRESSURE WASHER



MODELS:

1.106-593.0
1710 SS

1.106-594.0
1720 SS

1.106-595.0
1722 SS

1.106-596.0
1723 SS

1.106-597.0
1724 SS

1.106-598.0
1725 SS

1.106-599.0
1743 SS

1.106-600.0
1744 SS

1.106-601.0
1745 SS

1.106-602.0
1755 SS

For the Hotsy Dealer nearest
you, consult our web page at
www.hotsy.com

Scan or Click to View
The Hotsy Safety Video



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

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.

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

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 information to keep the machine and its components in good working condition. They are listed in this general order:

- Storage
- Maintenance
- Troubleshooting

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.

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.

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

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.

SAFETY INFORMATION

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 distributor for specific details.

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.

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.

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: 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 — Do not spray flammable liquids.

AVERTISSEMENT: Risque d'explosion. Ne pas pulvériser de liquides inflammables.

6. Do not allow acids, caustic or abrasive fluids to pass through the pump.
7. Never run pump dry or leave spray gun closed longer than 1-2 minutes.

8. Keep operating area clear of all persons.

SAFETY INFORMATION



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.

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.

9. Always wear properly rated eye protection such as safety goggles or face shield while spraying.

(Safety glasses do not provide full protections)

(Des lunettes de sécurité ne fournissent pas une protection complète.)



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.



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.

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



WARNING: Protect machine from freezing.

AVERTISSEMENT: Protéger la machine contre le gel.

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, 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 than 90°F.
15. Manufacturer will not be liable for any changes made to our standard machines or any components not purchased from us.
16. The best insurance against an accident is precaution and knowledge of the machine.



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

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.

SAFETY INFORMATION

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



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.*



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.*



Follow the maintenance instructions specified in the manual.

Suivre les instructions d'entretien spécifiées dans le manuel.

Technical Specifications

Model #	Pump Volume @ Pump Head	Pump Pressure at Pump Head	Machine Voltage	Total Machine Amperage	Machine Weight	Shipping Weight	Machine Dimensions
1710 SS	2.75 GPM	1000 PSI	120VAC/60Hz/1Ph	20 Amps	154 Lbs	200 Lbs	L 31" X W 21" X H 16"
1720 SS	3.9 GPM	2000 PSI	230VAC/60Hz/1Ph	28 Amps	229 Lbs	275 Lbs	L 31" X W 21" X H 16"
1722 SS	3.9 GPM	2000 PSI	208VAC/60Hz/1Ph	30 Amps	229 Lbs	250 Lbs	L 31" X W 21" X H 16"
1723 SS	3.9 GPM	2000 PSI	208VAC/60Hz/3Ph	16 Amps	229 Lbs	250 Lbs	L 31" X W 21" X H 16"
1724 SS	3.9 GPM	2000 PSI	230VAC/60Hz/3Ph	14.4 Amps	229 Lbs	250 Lbs	L 31" X W 21" X H 16"
1725 SS	3.9 GPM	2000 PSI	460VAC/60Hz/3Ph	7.2 Amps	229 Lbs	250 Lbs	L 31" X W 21" X H 16"
1743 SS	4.76 GPM	3000 PSI	208VAC/60Hz/3Ph	31.3 Amps	257 Lbs	302 Lbs	L 31" X W 21" X H 16"
1744 SS	4.76 GPM	3000 PSI	230VAC/60Hz/3Ph	26.8 Amps	257 Lbs	300 Lbs	L 31" X W 21" X H 16"
1745 SS	4.76 GPM	3000 PSI	460VAC/60Hz/3Ph	13.5 Amps	257 Lbs	315 Lbs	L 31" X W 21" X H 16"
1755 SS	5.93 GPM	2500 PSI	460VAC/60Hz/3Ph	13.5 Amps	257 Lbs	310 Lbs	L 31" X W 21" X H 16"

Operations

Pre-Operation Check

- Read machine safety warnings
- Pump oil SAE 10W-40 (non-foaming oil)
- Cold water supply (1gpm over machines rating- 5/8" 20 psi)
- Proper power supply and circuit protection
- Hose, wand, nozzles (nozzle sizes per serial plate)
- Water filter (intact, non restrictive)
- Read operation instructions
- This machine must be protected from the elements/ freezing.

Set-up Procedures

This machine is intended for indoor use. Machine must be stored indoors when not in use.

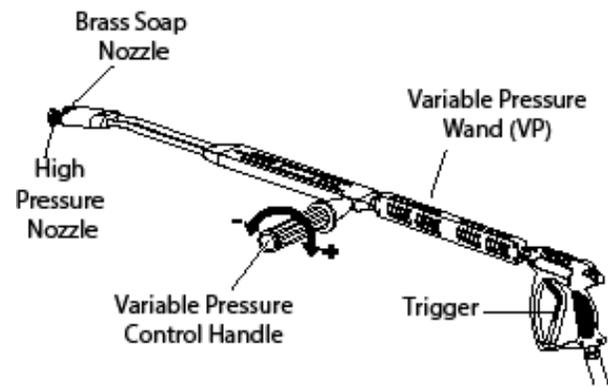
1. Attach a minimum 5/8" garden hose to inlet connector. Minimum flow should be 1 gpm over the flow rate of the pressure washer.
2. Attach high pressure hose to discharge nipple using quick coupler. Lock coupler securely into place by pulling back coupler collar and inserting it onto discharge nipple, then pushing collar forward to lock in place.
3. Attach wand to spray gun using Teflon tape on threads to prevent leakage.
4. Attach connector on discharge hose to spray gun using Teflon tape on threads.
5. Remove oil plug on top of pressure washer pump and replace with dipstick supplied. (This may be installed from the factory).
6. Check oil level on oil dipstick on top of pump. Oil should be visible one half way up sight glass (10W-40 non-foaming).

Operating Instructions

1. Read safety and preventative maintenance instructions before starting machine.
2. Turn on water at faucet and pull trigger on spray gun allowing water to flow until all air has discharged from system. Check for water leaks; tighten as needed.
3. Push the pump switch on.
4. Turn the variable pressure control handle clockwise to increase pressure.
5. To apply detergent read "How to Use The Detergent Injector."

Shut Down Procedures

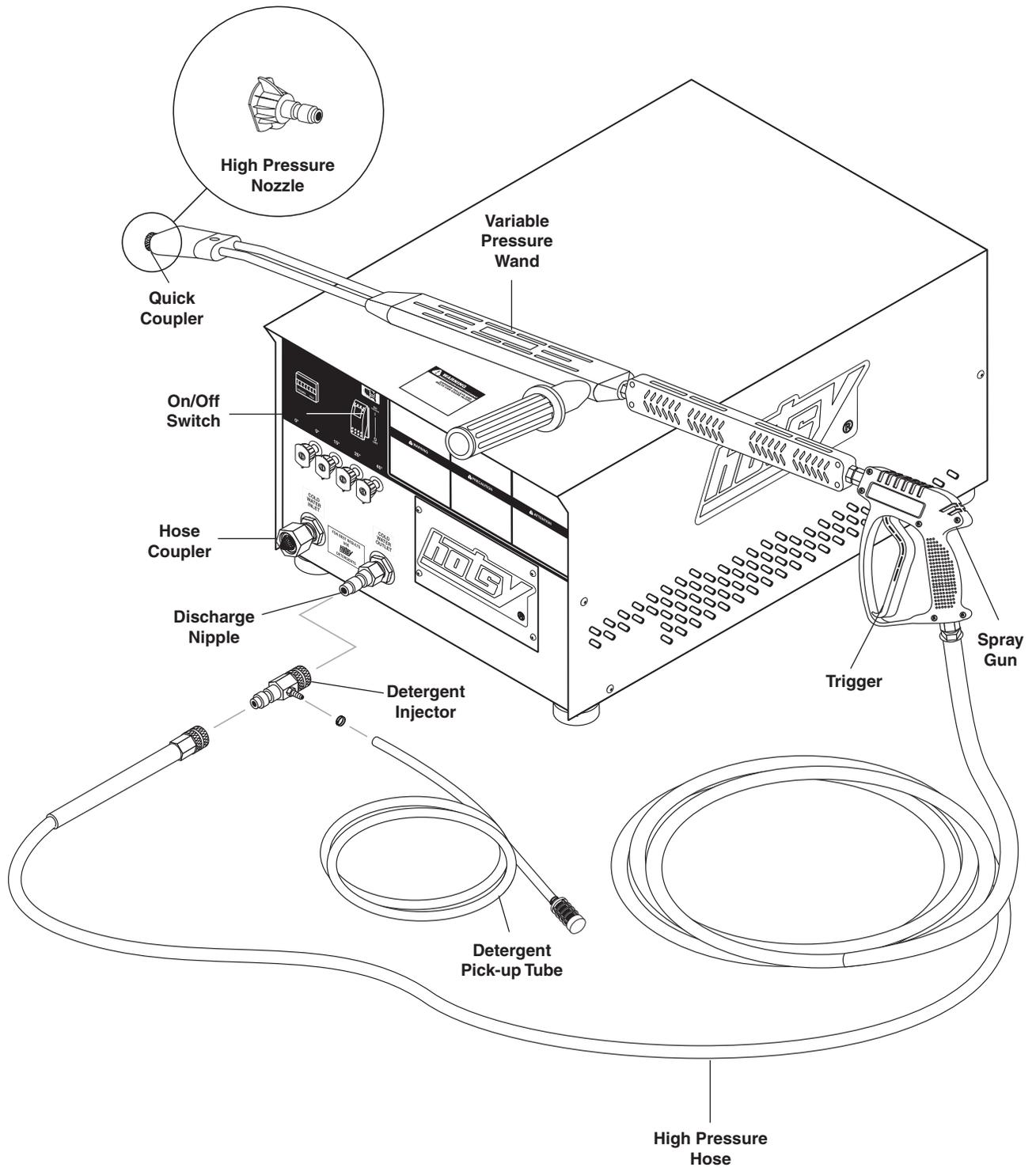
1. Rinse with clean water to remove any soap residue, by placing detergent hose into fresh water bucket and operating injector as described below.
2. Release the trigger on the spray gun. Turn the switch off if the machine is going to be left unattended. (Time delay only).
3. Turn off water supply.
4. Open spray gun to relieve remaining pressure.
5. Remove water supply hose.



Selection of high or low pressure is accomplished 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.

Component Identification



HOW TO USE THE DETERGENT INJECTOR



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.

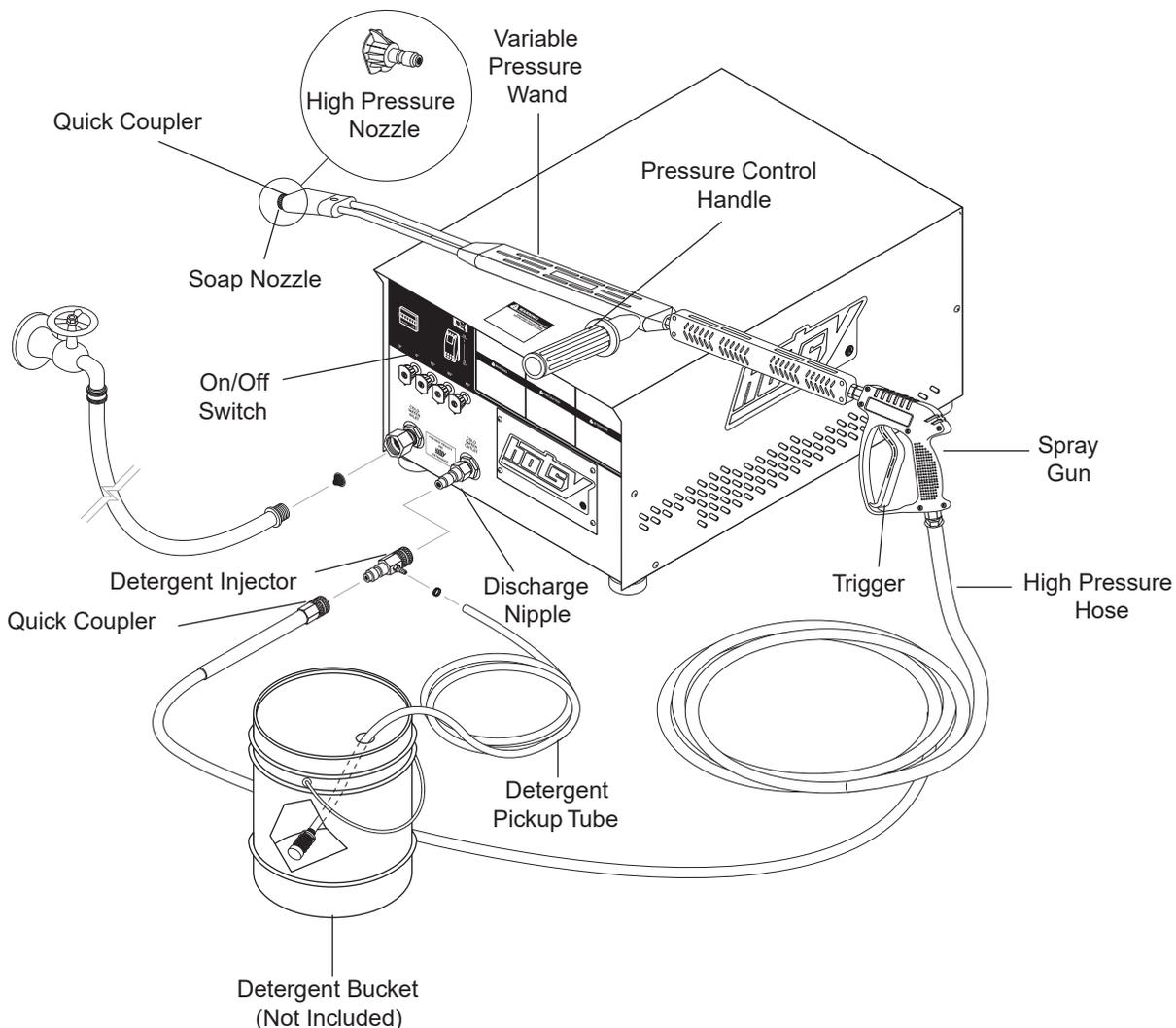
AVERTISSEMENT: Certains détergents peuvent être dangereux s'ils sont inhalés ou ingérés, provoquant de fortes nausées, des évanouissements et l'empoisonnement. Les éléments dangereux peuvent causer des dommages à la propriété ou des blessures graves.

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

1. Start machine as outlined in Operating Instructions.
2. Place detergent pick-up tube into container of detergent solution.
3. Turn the pressure control handle on the variable pressure wand counterclockwise to low pressure.
4. Open trigger on spray gun. Water detergent ratio is approximately 15 to 1.

NOTE: Soap will not siphon under high pressure.

5. When you finish with the detergents, rinse by simply turning the variable pressure control handle clockwise to high pressure.
6. After use, place siphon strainer into container of clear water and follow steps 3 and 4 to avoid detergent deposit build-up.



GENERAL WASHING TECHNIQUES

1. Hold spray nozzle a foot or so from the surface being cleaned. Spray at an angle to get under the material and lift it off.
2. When washing large objects, use detergent injector to apply detergent. Start washing from the bottom and work up. Allow the detergent to set a few minutes. After washing, rinse from the top down.
3. Cleaning heavy dirt or material away with a hard stream of clear water is recommended before using a cleaning agent.

MAINTENANCE

Pump Lubrication

The pump on your 1700 Series pressure washer is a triplex ceramic plunger pump. As the plungers move back, water flows through the inlet valve into the manifold chamber. Then, when the plungers move forward, the inlet valves close and the discharge valves open to produce discharge pressure.

Use only SAE 10W-40 weight (non-foaming 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 the use of the dipstick found on top of the pump, or half way up on the oil gauge window. Oil should be maintained at that level.

Unloader Valves

The unloader valve is connected directly to the discharge port of the pump. Its purpose is to allow recirculation back into the pump inlet when the trigger on the spray gun is closed.

Nozzles

Each machine is equipped with four spray nozzles depending on the flow and pressure of that particular model. Spray nozzles vary in bore size and angle of spray. When ordering replacement nozzles, please specify size and angle of nozzle. Nozzle size for each machine is located on the serial plate.

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 0 °C (32 °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.

Winterizing Procedure

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

During winter months, when the temperature drops below 32°F, protecting your machine against freezing is necessary. A blowout valve is available which can be screwed on in place of the garden hose to blow water out of the system. When compressed air is not available or impractical, siphon a small amount of antifreeze into the machine and siphon a 50/50 mixture of antifreeze into the pump. Run the pump dry for a few seconds and disconnect all hoses to allow water to drain.

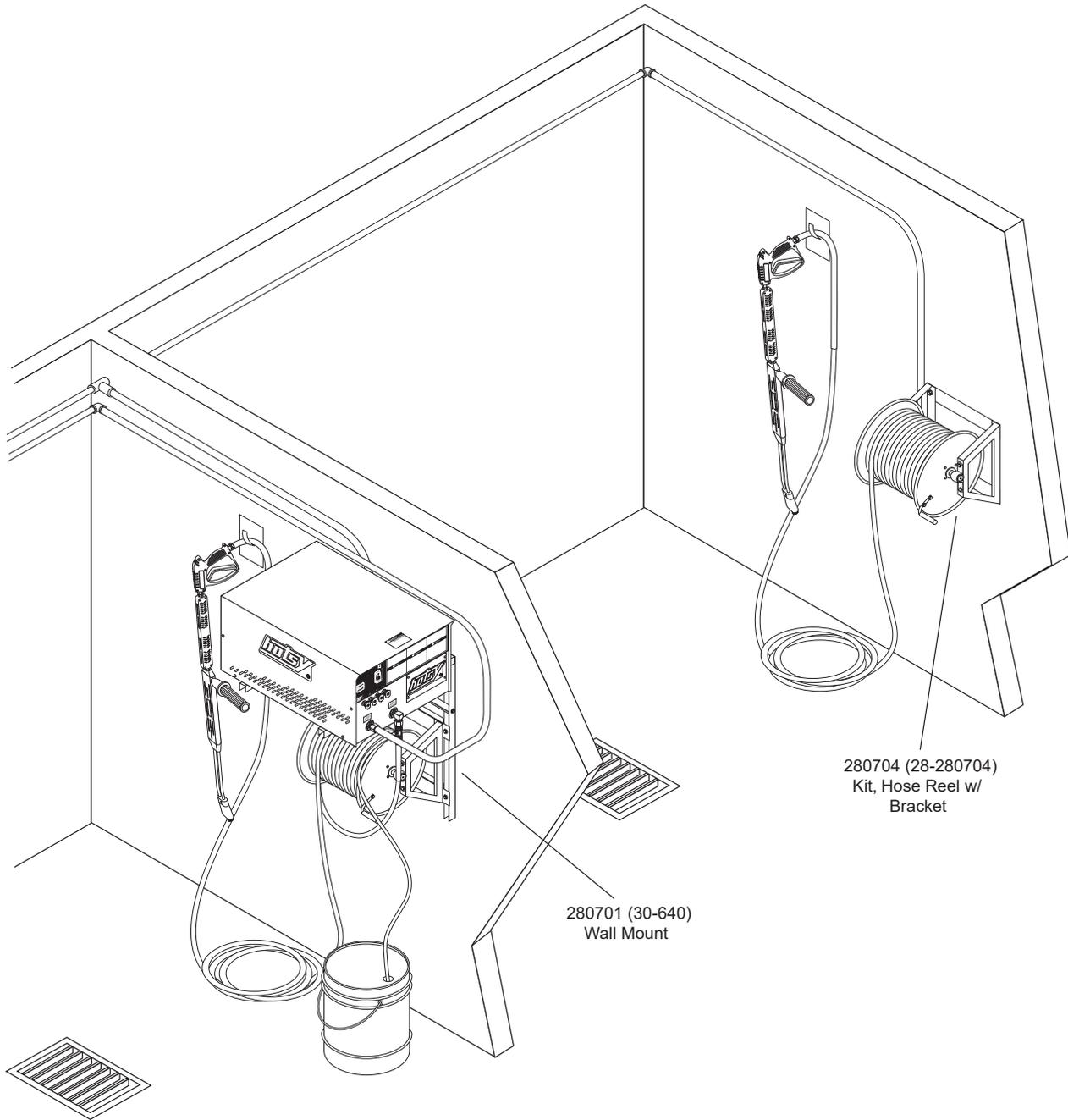
Low Pressure Diagnosis

Refer to Troubleshooting Chart for low pressure. If, by referring to the chart, the trouble is found to be either the unloader or the pump, your next step is to determine whether in fact the unloader or the pump 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 developed in this manner the pump is good, and the unloader needs to be repaired or replaced.

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

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

MULTI-ROOM INSTALLATION



TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
LOW OPERATING PRESSURE	Faulty pressure gauge	Install new gauge.
	Insufficient water supply	Use larger supply hose; clean filter at water inlet.
	Old, worn or incorrect spray nozzle	Match nozzle number to machine and/or replace with new nozzle.
	Belt slippage	Tighten or replace; use correct belt.
	Plumbing or hose leak	Check plumbing system for leaks. Re-tape leaks with teflon tape.
	Faulty or mis-adjusted unloader valve (Where applicable)	Call local dealer. Tampering with the factory setting may cause personal injury and/ or property damage, and will void the manufacturer's warranty.
	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.
	Insufficient power supply	Check voltage.
FLUCTUATING PRESSURE	Valves worn	Check and replace if necessary.
	Blockage in valve	Check and clean out if necessary.
	Pump sucking air	Check water supply and suction line for air seepage at joints.
	Worn piston packing	Check and replace if necessary.
PRESSURE LOW AFTER PERIOD OF NORMAL USE	Nozzle worn	Check and replace if necessary.
	Inlet or discharge valves worn	Check and replace if necessary.
	Inlet or discharge valves blocked	Check and clean if necessary.
	Unloader valve seat worn	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.
	Foreign matter in valves	Check and clean if necessary.
	Worn bearings	Check and replace if necessary.
	Excessive temperature of liquid	Reduce to below 75° C (160°F).
PRESENCE OF WATER IN PUMP 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.
MOTOR STRAINS UNDER LOAD (CONTINUED ON NEXT PAGE)	Faulty motor	Send to nearest Baldor repair center.
	Incorrect spray nozzle	Install proper nozzle size (see serial plate for proper size).
	Obstruction in spray nozzle	Remove obstruction.

TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
MOTOR STRAINS UNDER LOAD (CONTINUED FROM PREVIOUS PAGE)	Mis-adjusted unloader valve	Call local dealer.
	Pump low or out of oil	Check oil level.
OIL SQUIRTS OUT OF OIL CAP ON PUMP	Pump over filled with oil	Maintain oil level halfway up on the sight glass at rear of pump or at top of notch on dipstick (where applicable).
PUMP RUNNING NORMALLY BUT PRESSURE OUTPUT 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	Check and replace if necessary (See serial plate for proper size).
	Worn piston packing	Check and replace if necessary.
WATER DRIPPING FROM UNDER PUMP	Piston packing worn	Check and replace if necessary.
	O-Ring plunger retainer worn	Check and replace if necessary.
	Cracked piston	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.
SYSTEM WILL NOT START	Motor overload tripped	Check and reset.
	Pressure switch faulty (time delay only)	Check, clean or replace.
	Timer faulty (time delay only)	Check and replace.
MOTOR "HUMS" BUT DOES NOT TURN	Electric motor single phasing	Check for blown fuse or loose power line.
SYSTEM WILL NOT STOP	Pressure switch faulty	Check clean or replace.
	Timer faulty	Check and replace.
SYSTEM STOPS AFTER APPROXIMATELY FOUR (4) SECONDS AND THEN RESTARTS	Faulty pressure switch	Check and replace.
	Leak at discharge line	Check for leak at hose and spray gun.
MACHINE WILL NOT START WHEN SPRAY GUN TRIGGER IS PULLED	Loss of electrical power	Check circuit breaker.
	Faulty on/off switch, pressure switch, timer or magnetic contactor	Test and replace as needed.
MACHINE DOES NOT TURN OFF AFTER FOUR (4) SECONDS WHEN SPRAY GUN IS RELEASED	Test power control switch and solid state timer faulty	Replace the defective component.

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



To **REGISTER** your pressure washer, please visit our Warranty Registration page at www.hotsy.com/WarrantyRegistration.aspx or scan the code below with your smart phone.

