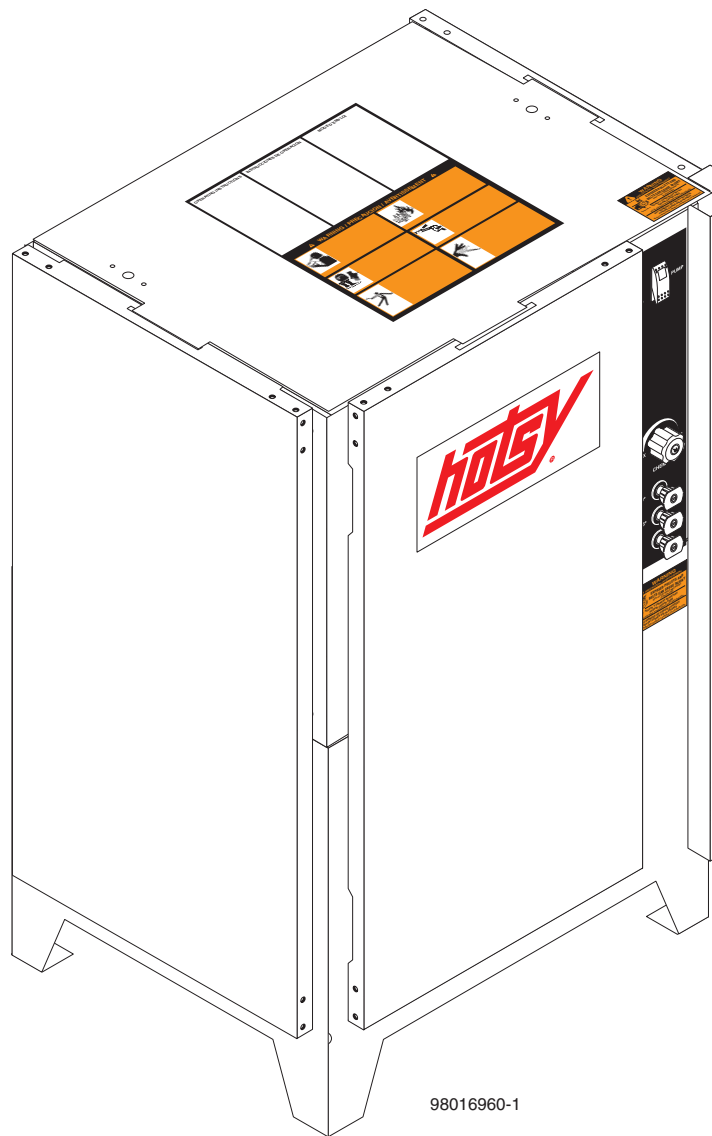




CWC

STATIONARY COLD WATER SERIES

OPERATOR'S MANUAL



98016960-1



1.106-572.0 CWC-53 SPECIFICATIONS

- Pump Volume At Pump Head: 3.9 GPM/234 GPH
- Pump Pressure At Pump Head: 3000 PSI
- Motor Hp: 7.5
- Machine Voltage: 230VAC/60Hz/1Ph
- Total Machine Amperage: 36 Amps
- Machine Weight: 289 Lbs.
- Shipping Weight: 340 Lbs.
- Machine Dimensions: 24.25 X 21 X 36

1.106-573.0 CWC-54 SPECIFICATIONS

- Pump Volume At Pump Head: 3.9 GPM/234 GPH
- Pump Pressure At Pump Head: 3000 PSI
- Motor Hp: 7.5
- Machine Voltage: 230VAC/60Hz/3Ph
- Total Machine Amperage: 23 Amps
- Machine Weight: 289 Lbs
- Shipping Weight: 340 Lbs
- Machine Dimensions: 24.25 X 21 X 36

1.106-574.0 CWC-55 SPECIFICATIONS

- Pump Volume At Pump Head: 3.9 GPM/234 GPH
- Pump Pressure At Pump Head: 3000 PSI
- Motor Hp: 7.5
- Machine Voltage: 460VAC/60Hz/3Ph
- Total Machine Amperage: 11 Amps
- Machine Weight: 289 Lbs
- Shipping Weight: 340 Lbs
- Machine Dimensions: 24.25 X 21 X 36

1.106-575.0 CWC-56 SPECIFICATIONS

- Pump Volume At Pump Head: 3.9 GPM/234 GPH
- Pump Pressure At Pump Head: 3000 PSI
- Motor Hp: 7.5
- Machine Voltage: 575VAC/60Hz/3Ph
- Total Machine Amperage: 9 Amps
- Machine Weight: 289 Lbs
- Shipping Weight: 340 Lbs
- Machine Dimensions: 24.25 X 21 X 36

1.106-576.0 CWC-63 SPECIFICATIONS

- Pump Volume At Pump Head: 4.95 GPM/297 GPH
- Pump Pressure At Pump Head: 2000 PSI
- Motor Hp: 7.5
- Machine Voltage: 230VAC/60Hz/1Ph
- Total Machine Amperage: 28 Amps
- Machine Weight: 289 Lbs
- Shipping Weight: 340 Lbs
- Machine Dimensions: 24.25 X 21 X 36

1.106-577.0 CWC-64 SPECIFICATIONS

- Pump Volume At Pump Head: 4.95 GPM/297 GPH
- Pump Pressure At Pump Head: 2000 PSI
- Motor Hp: 7.5
- Machine Voltage: 230VAC/60Hz/3Ph
- Total Machine Amperage: 18 Amps
- Machine Weight: 289 Lbs
- Shipping Weight: 340 Lbs
- Machine Dimensions: 24.25 X 21 X 36

1.106-578.0 CWC-65 SPECIFICATIONS

- Pump Volume At Pump Head: 4.95 GPM/297 GPH
- Pump Pressure At Pump Head: 2000 PSI
- Motor Hp: 7.5
- Machine Voltage: 460VAC/60Hz/3Ph
- Total Machine Amperage: 9 Amps
- Machine Weight: 289 Lbs.
- Shipping Weight: 340 Lbs.
- Machine Dimensions: 24.25 X 21 X 36

1.106-579.0 CWC-66 SPECIFICATIONS

- Pump Volume At Pump Head: 4.95 GPM/297 GPH
- Pump Pressure At Pump Head: 2000 PSI
- Motor Hp: 7.5
- Machine Voltage: 575VAC/60Hz/3Ph
- Total Machine Amperage: 8 Amps
- Machine Weight: 289 Lbs.
- Shipping Weight: 340 Lbs.
- Machine Dimensions: 24.25 X 21 X 36

SYMBOLS

Identification of Operational Label Symbols



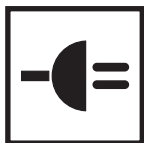
Pump Switch



Hour Meter



Detergent



Voltage

When the light is on, it means power supply is on



Motor Overload

When the light is on, it means the overload is tripped.
Reset overload.

CONTENTS

Introduction & Important Safety Information	6-7
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Assembly Instructions	9
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Maintenance	12
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Troubleshooting	17-19

Model Number _____

Serial Number _____

Date of Purchase _____

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

INTRODUCTION & IMPORTANT SAFETY INFORMATION

Thank you for purchasing this Pressure Washer.

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

Owner/User Responsibility:

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

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

The operator must know how to stop the machine quickly and understand the operation of all controls. Never permit anyone to operate the machine 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.

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



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

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.

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

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



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

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

IMPORTANT SAFETY INFORMATION



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



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.



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



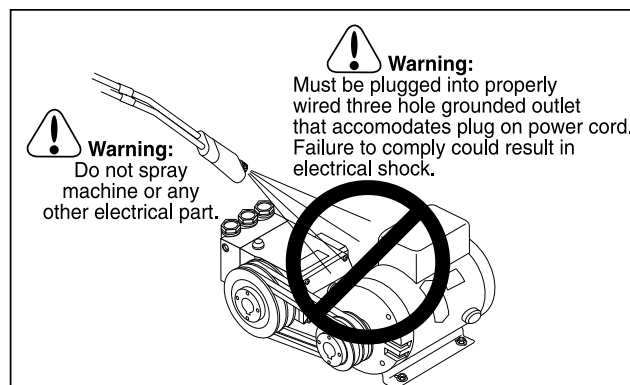
19. Follow the maintenance instructions specified in the manual.

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.

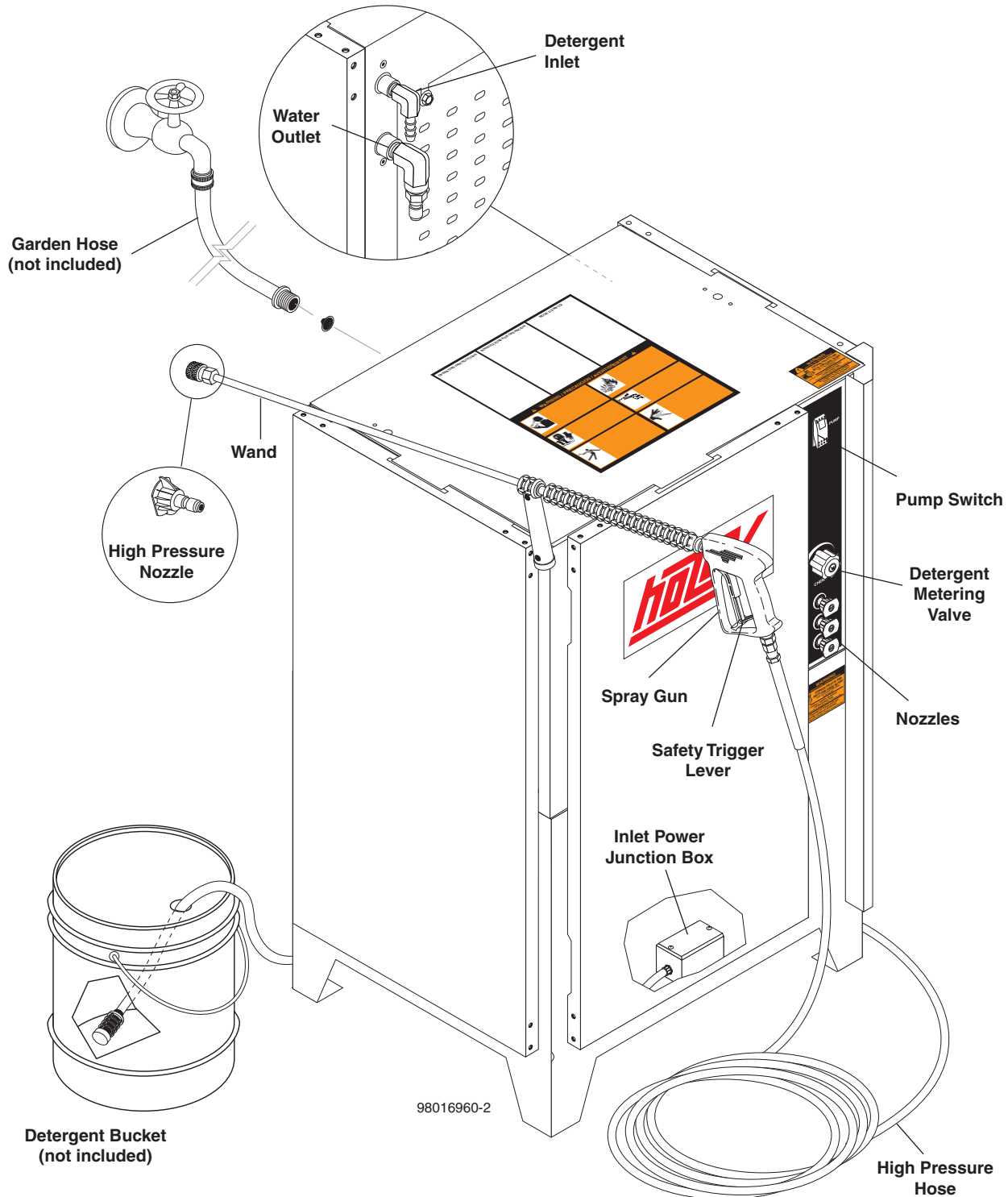


WARNING: Protect machine from freezing.

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.



COMPONENT IDENTIFICATION



Pump — Develops high pressure by pumping water volume through nozzle.

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

Detergent Metering Valve — Controls detergent mixture.

Wand — Must be connected to the spray gun.

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

Pressure Nozzle — Inserted into wand quick coupler to develop pressure

Safety Trigger Lever — Prevents accidental triggering of spray gun while inserting a high pressure nozzle.

ASSEMBLY INSTRUCTIONS

Unpacking

Unpack carefully. Wear safety glasses or goggles while unpacking, assembling or operating pressure washer. If there are missing components or hidden damage immediately contact distributor or carrier concerning discrepancies.

1. Cut strapping band from pressure washer and pallet.
2. Remove pressure washer from pallet.

Parts Included

- Pressure Washer
- Pressure Hose
- Wand
- Parts Box Containing:
 - Pressure Nozzles (3 on machine).
 - Trigger Gun
- Operating Instructions and Parts Manual

Tools Required

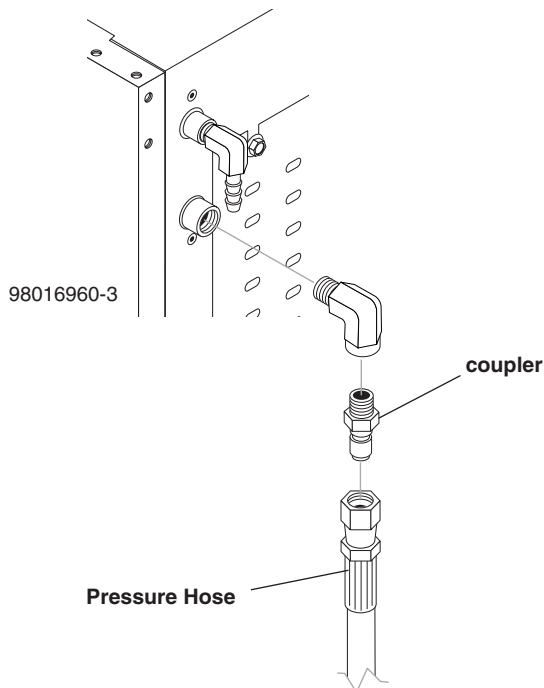
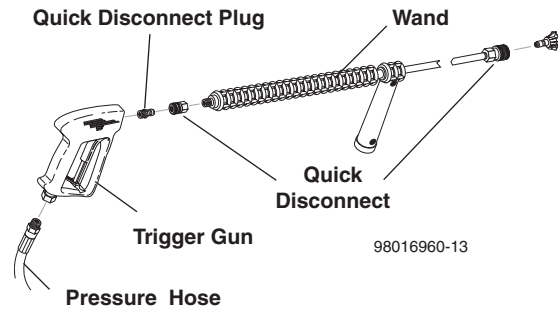
- 10" Adjustable Crescent Wrenches (2 ea.)
- Blade Screwdriver

Pressure Hose, Wand and Wand Holder

1. Use teflon tape on plumbing connections to prevent leakage.
2. Install pressure hose on machine as shown.
3. Assemble wand components as shown. Connect pressure hose to trigger gun.

NOTE: The nozzle is not to be installed at this time.

4. Make sure that all plumbing connections are tight.



OPERATING INSTRUCTIONS

To Clean

WARNING: Risk of injection or severe injury - Keep clear of nozzle - DO NOT direct discharge stream at persons - This machine is to be used only by qualified operators.

AVERTISSEMENT: RISQUE D'INJECTION ET DE BLESSURES GRAVES. SE TENIR À L'ÉCART DU JET. NE PAS DIRIGER LE JET DE SORTIE VERS D'AUTRES PERSONNES. CONFIER L'UTILISATION DE CE MATÉRIEL À UN OPÉRATEUR QUALIFIÉ.

1. Insert detergent inlet line into container of mixed detergent. Open detergent ON/OFF valve. The detergent will be pulled automatically into the system. Allow detergent to reach end of wand before proceeding to step 3.
2. Select pressure nozzle with spray pattern that matches your cleaning needs. Engage manual trigger lock and install selected nozzle.
3. Wash from the bottom to the top, using side to side motions. This washes away heavy dirt and allows the detergent to soak as you work toward the top.
4. Do not wash at a 90° angle to the work (straight at it). This will allow water to splash back at you and reduces your cleaning power. Wash at a 30° to 60° angle to the work. This will allow the water to splash away from you and the water will wash the dirt away faster and easier.
5. Use the width of the spray pattern to wash in a wide path. Overlap spray paths for complete coverage. Wash from side to side, using slow, steady motions.
6. The nozzle should be 12" to 24" from work, closer for tough areas. Be careful on painted or delicate surfaces, the pressure may damage surface if nozzle is too close.
7. Small parts should be washed in a basket and larger, lightweight parts should be clamped down so the pressure does not push them away.
8. Close the detergent ON/OFF valve to permit rinse. Always rinse with cold water after using detergents. Rinse from the top to the bottom to prevent detergent from dripping onto a rinsed area. For the best results, contact your Hotsy dealer to help you select the best detergent for your application.

OPERATING INSTRUCTIONS

PRE-OPERATION CHECK

- ☐ Read machine safety warnings
- ☐ Pump oil (SAE 30W (non-detergent 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.

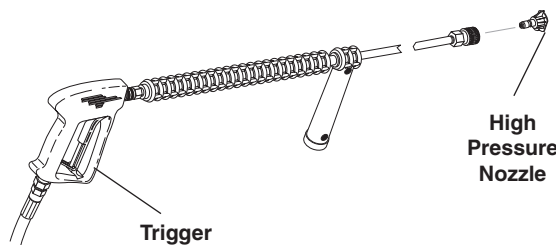
1. Attach a minimum 5/8" garden hose to inlet connector. Minimum flow should be 1 gpm over the flow rate of the pressure washer.
2. Attach high pressure hose to discharge nipple using quick coupler. Lock coupler securely into place by pulling back coupler collar and inserting it onto discharge nipple, 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 (30W non-detergent).

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.



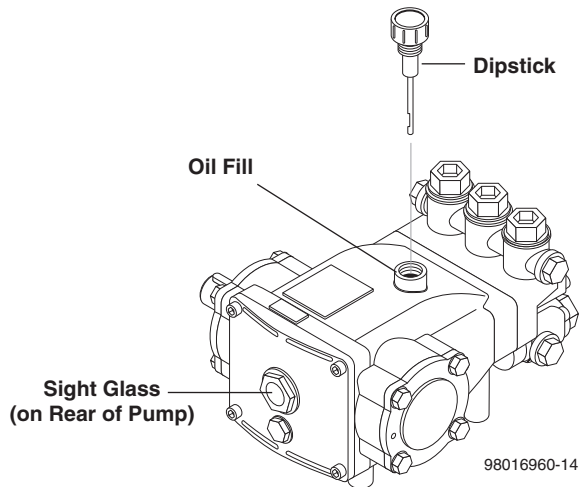
IMPORTANT: The trigger gun provided with this pressure washer is equipped with a manual trigger lock to prevent accidental operation of the trigger gun, refer to figure above. The safety trigger lock should be used whenever the trigger gun is not in use.

MAINTENANCE

WARNING: *Unauthorized machine modification or use of non-approved replacement parts may cause personal injury and/or property damage and will void the manufacturer warranty.*

Pump

Use Hotsy Pump Oil (8.914-527.0) for pump crankcase. Crankcase must be filled to the full mark on the dipstick or to center of sight glass window found on the rear of the pump. During the break-in-period, make sure the oil is changed after the first 25 hours of operation. After that, replace oil every 3 months or 300 hours of operation, whichever comes first.



Pump Motor

On a yearly basis, oil pump motor per instructions on motor nameplate.

NOTE: *Some motors may be equipped with permanently lubricated bearings and will not require additional lubrication.*

Unloader Valve

WARNING: *The unloader valve on this pressure washer has been factory set and sealed and is a field nonadjustable part. Tampering with the factory setting may cause personal injury and/or property damage, and will void the manufacturer warranty.*

Proper Pump Care:

- Do not pump acids.
- Do not allow pump to run dry.
- Winterize if storing in freezing temperatures; refer to **Storage** for details.
- Use a water softener on the water system if known to be high in mineral content.
- Use only high quality detergents and follow manufacturer's mix recommendations.
- Flush the system with clear water immediately after using detergent solutions.
- Clean filter screen on detergent inlet line periodically.
- Flush the pressure washer system with antifreeze if storing for an extended period of time; refer to **Storage** for details.

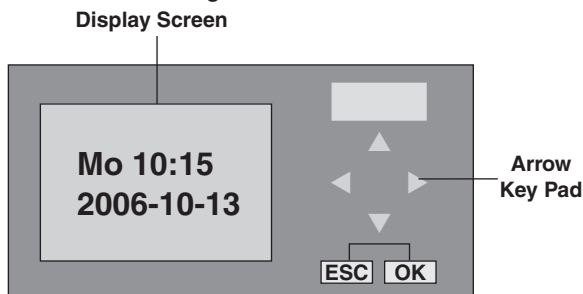
SMART RELAY INSTRUCTIONS

DIGITAL TIMER (OPTIONAL)

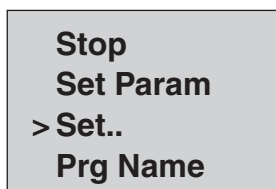
The following are instructions on how to set the parameters on the digital timer in Programming Mode. To define these settings please follow the steps below.

Setting the Clock:

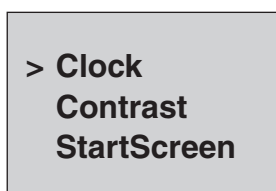
1. Press the **ESC** key located next to the display window and under the arrow key pad (see figure below). Pressing the **ESC** key will access the Parameter Assignment Menu.



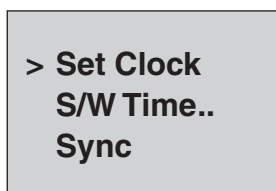
2. Using the up/down arrow keys ▲ or ▼, move the



- (>) cursor to 'Set' and press **OK** to accept.



3. Move the (>) cursor to 'Clock' and press **OK** to accept.



4. Move the (>) cursor to 'Set Clock' and press **OK** to accept 'Set Clock'.

NOTE: When setting time on clock, use only millitary time.

The cursor is now positioned on the weekday and shows the following on the display window (see figure below).

Set Clock
Mo 10:15
YYYY-MM-DD
2006-10-13

5. Select the day of the week by using the up/down arrow keys ▲ or ▼.
6. Move the cursor to the next position by using the left/right arrow keys ◀ or ▶.
7. To change the value use the up/down arrow keys ▲ or ▼.
8. To set the correct time-of-day and date, repeat steps 6 and 7.
9. To accept your entries press **OK**.
10. To go back to the previous menu at anytime press **ESC**.

PROGRAMMING INSTRUCTIONS

The CWC can be configured to run in Time Delay or Auto Start/Stop with lockout. Machines are factory set with Auto Start/Stop with 4 hour Lockout. A Smart Relay controls how the machine will operate by using three internal timers; these timers are adjustable. The following is a brief description of these timers:

Timer 1: 'Lockout Timer' (Time Delay)

- Timer 1 de-energizes (lockout) the machine if not being used for a preset time. If machine has 'Locked out' it can only be re-energize by pressing the 'Pump On' switch. Timer 1 is factory set to 4 hours.

Timer 2: 'Auto Start/Stop Timer'

- Timer 2 allows the pump to run in bypass for a preset time. If the pump runs in bypass longer than the allotted time the timer will drop power to the motor contactor and machine will be in standby mode. Squeezing the gun trigger will restart the pump (if Timer 1 has not locked out). Timer 2 is factory set to 30 seconds.

Timer 3: 'Reset Delay Timer'

- Timer 3 controls how long the pump must run before resetting the 'Lockout Timer' (Timer 1). This allows the pump to run long enough to re-pressurize the system if there is pressure loss when not in use. Timer 3 is factory set to 15 seconds.

SMART RELAY INSTRUCTIONS

PROGRAMMING INSTRUCTIONS, CONT.

To change to the parameters of the internal timers in the Smart Relay complete the following steps:

1. Turn on the power to the machine but do not press the start switch. Remove the front panel and then the control panel cover. **NOTE: Use extreme CAUTION when reaching into the control box, the machine has live power.** Once powered the Smart Relay window will display the following screen, see figure 1 (if screen does not appear press the left/right arrow keys ◀ or ▶ until correct screen appears).

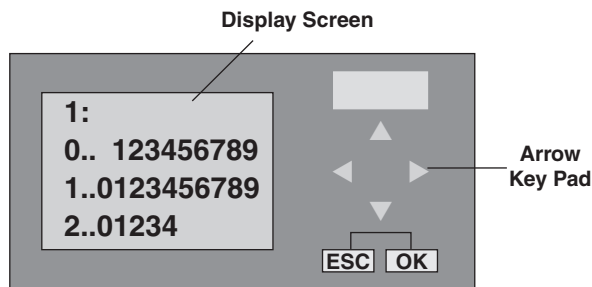


Fig. 1

2. Press the ESC key located next to the display window and under the arrow key pad (see figure 2). Pressing the ESC key will access the Parameter Assignment Menu.
3. Using the up/down arrow key ▲ or ▼, move the (>) cursor to 'Set Param' and press OK to confirm (See figure 3). The display window shows the first parameter (Timer-1), see figure 4.

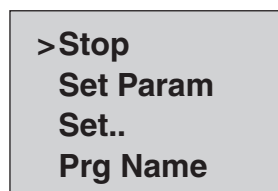


Fig. 2

NOTE: Ta is the accumulator timer and T is the adjustable timer (the variable that changes)

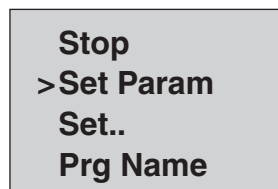


Fig. 3

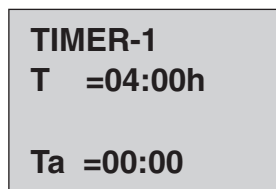


Fig. 4

4. Press OK to change the value of Timer-1. Using the left/right arrow key ◀ or ▶, move the cursor to the desired field and use the up/down arrow keys ▲ or ▼ to change this value. See figure 5.

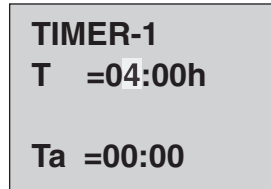


Fig. 5

5. Each timer has optional units of time in seconds (s), minutes (m), and hours (h). To change the unit of time use the left/right arrow keys ◀ or ▶ to move the cursor to the unit field. Change the unit of time using the arrow up/down keys ▲ or ▼. Once all the values have been set press OK to accept. See figure 6.

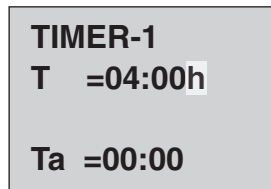


Fig. 6

6. Press arrow up/down keys ▲ or ▼ to select the next parameter to change (Timer -2). Repeat steps 4 and 5 to change the Timer-2 parameters. See figure 7.

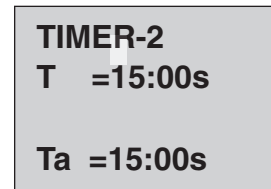


Fig. 7

7. Press arrow up/down keys ▲ or ▼ to select the next parameter to change (Timer -3). Repeat steps 4 and 5 to change the Timer-3 parameters. See figure 8.

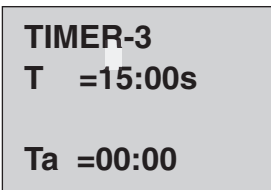


Fig. 8

8. Once all timers have been set to the desired time press ESC twice to return to the Input display screen. See figure 9.

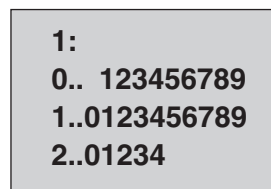


Fig. 9

SMART RELAY INSTRUCTIONS

Factory Set Parameters (Auto Start/Stop with Lockout)

TIMER	VALUE	DESCRIPTION
Timer 1	04:00 Hours	Turns machine off after 4 hours of non-use. To restart push the 'Pump On' switch.
Timer 2	30:00 Seconds	Pump will run in bypass for 30 seconds before shutting off, machine is still in standby mode. Pulling the gun trigger will restart the pump.
Timer 3	15:00 Seconds	In case of pressure loss when machine is in standby, the pump can run up to 15 seconds before resetting 'Timer 1' (lockout)

Time Delay Parameters

TIMER	VALUE	DESCRIPTION
Timer 1	03:00 Minutes	When machine is not in use, pump will run in bypass for 3 minutes and shut off. To restart push the 'Pump On' switch.
Timer 2	01:00 Hours	To operate in time delay mode timer 2 must be deactivated. This is done by setting timer 2 to value greater than timer 1.
Timer 3	15:00 Seconds	Pump must run more than 15 seconds to reset timer 1.

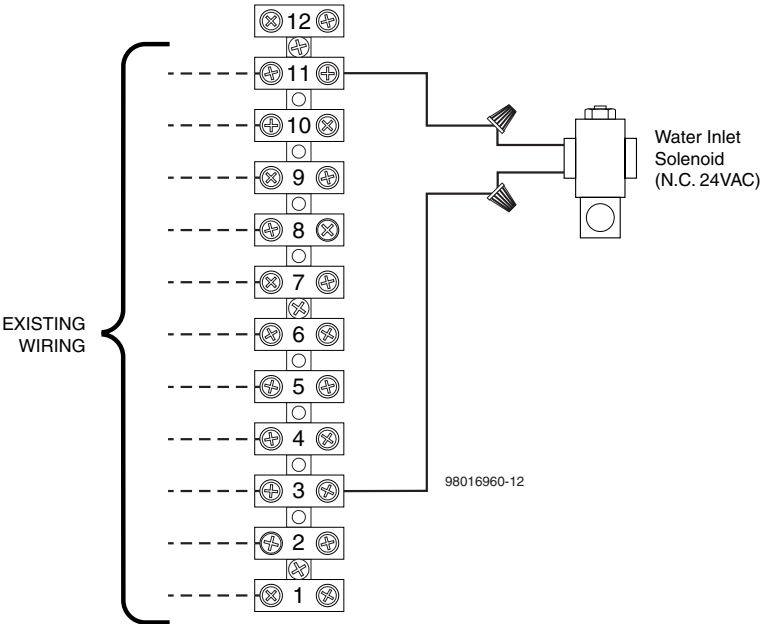
OPTIONAL — WATER INLET SOLENOID

A water inlet solenoid can be added to the machine that will open only when the machine is running or in standby. The solenoid closes when the machine is off to prevent possible water overflow when unattended.

Installation

- Connect a 24V/AC normally closed solenoid on the water inlet, contact local Hotsy dealer for solenoid options.
- Connect solenoid to the remote terminal using 16 ga minimum wire
- Wire solenoid to remote terminal according to figure below

Before powering up machine, fill float tank to prime the system.



Water Inlet Solenoid Wiring Schematic
(Remote Terminal Located Inside Machine)

Water Inlet Solenoid Wiring Schematic

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
LOW OPERATING PRESSURE	Insufficient water supply	Fully open faucet. Use larger supply hose; clean filter at water inlet. Check for kinks.
	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.
	Air being drawn through detergent inlet line	Refill the detergent container. Ensure that pick-up screen is fully immersed.
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.
	Worn bearings	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 (SEE NEXT PAGE)	Faulty motor	Send to nearest Baldor repair center.
	Incorrect spray nozzle	Install proper nozzle size (see serial plate for proper size.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
MOTOR STRAINS UNDER LOAD (CONTINUED FROM PREVIOUS PAGE)	Obstruction in spray nozzle	Remove obstruction.
	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.
MOTOR "HUMS" BUT DOES NOT TURN	Electric motor single phasing	Check for blown fuse or loose power line.
	Capacitor bad 1PH	Have motor serviced.
PRESSURE WASHER WILL NOT RUN	Pump switch in OFF position	Place switch in ON position.
	Power supply disconnected	Connect power supply.
	Fuse blown or circuit breaker tripped in electrical supply line.	Replace fuse or reset circuit breaker. Use only circuits of adequate capacity.
	Motor circuit overload tripped	Allow sufficient time for motor to cool down. Place pump switch in ON position.
PRESSURE WASHER RUNS BUT WONT SPRAY	Trigger on trigger gun released	Squeeze trigger.
	Water supply not turned on	Open water supply valve.
	Clogged pressure nozzle	Clean pressure nozzle opening.
	Inlet water screen clogged	Check screen and clean if necessary.
	Pump sucking air	Fill the detergent container and check for loose hose clamps or fittings.
UNEVEN SPRAY PATTERN	Partially clogged or damaged pressure nozzle	Clean or replace.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
POOR OR NO DETERGENT FLOW	Inadequate detergent supply	Refill the detergent container. Ensure that pick-up screen is fully immersed.
	Detergent screen or hose clogged	Clean. Always start with a clean detergent container.
	Clogged detergent injector check valve	Clean check valve at detergent injector.
POOR CLEANING	Improper detergent concentration or mixing	Mix detergent per manufacture's instructions. Ensure that powdered detergents are fully dissolved.
	Wrong detergent for application	Select appropriate detergent.
	Detergent valve not opening	Check that handle or knob is not slipping on shaft.
UNLOADER CYCLES WHEN TRIGGER GUN IS OPENED OR CLOSED	Air in system	Open and close trigger gun several times.
	Unloader defective	Replace if defective.
	Water leak between unloader valve and trigger gun	Check fittings, hose and trigger gun for leaks. Repair or replace.

IMPORTANT

If the pressure washer demonstrates other symptoms or the corrective actions listed do not correct the problem, contact the local authorized Hotsy Service Center. The Hotsy Service Center can be identified by visiting www.hotsy.com.

When ordering from your dealer, please provide the following:

Model Number: _____ **Release:** _____

Machine Serial Number: _____

Component Part Number: _____

Description: _____

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.

