



PRESSURE WASHER OPERATOR'S INSTRUCTION MANUAL

CAUTION - STRONG POSSIBILITY OF SEVERE PERSONAL INJURY OR LOSS OF LIFE IF INSTRUCTIONS ARE NOT FOLLOWED

- * Read all operating instruction manuals before use.
- * Caution high pressure - never point the trigger gun wand or nozzle to anyone.
- * Always wear protective eye wear or face shield when using pressure washer.
- * Before cleaning - cover any exposed electrical sockets, plugs, lights or other exposed connections. Use plastic bags or other suitable material.
- * Do not allow your hands, feet, legs or any body part to come in contact with pressure water spray.



CAUTION - STRONG POSSIBILITY OF EQUIPMENT DAMAGE OR VOIDING THE EQUIPMENT WARRANTY

- * Read the engine operating and maintenance instruction manuals.
- * Check oil before starting.
- * Do not kink high pressure hose- it may become fractured and burst.
- * Use a minimum of a 3/4" diameter garden hose.
- * Drain the entire system of water before freezing.
- * Wait two minutes before refueling.

**NEED ASSISTANCE?
CALL 1-800-454-9274 (WASH)**

*Concealed Freight Damage Must Be Reported
To Freight Carrier Immediately.
It Is The Customers Responsibility To File
Freight Claim*

ReplacementPumps.com

**Water Cannon, Inc
4044 W. Lake Mary Blvd
Units 104-424
Lake Mary, FL 32746**

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**Fill Engine With Oil Before Operation
Change Pump Shipping Plug With Vented Dipstick
(or Vented Oil Plug)-Some Axial Models Are Factory Sealed
Do Not Run Without A 3/4" Industrial Garden Hose
CHANGE OIL AFTER 25 HOUR BREAK IN
TRIPLEX PUMP
TRIPLEX PUMP - 30wt Non - Detergent
AXIAL PUMPS - 70W90 Synthetic Gear Lube
Maintenance Free - Do Not Change Oil Unless Contaminated
ENGINE - 10w30 Detergent (see engine manual)**

IMPORTANT - RECORD YOUR SERIAL NUMBERS

UNIT SERIAL No _____

ENGINE SERIAL No _____

Please Make Certain That Everyone Who Uses The Pressure Washer Thoroughly Reads And Understands These Instructions Prior To Operation.

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BEFORE YOUR BEGIN

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Read And Understand All Instructions Before Operating Your Pressure Washer

This Manual Explains How To Use Your High Pressure Spray Equipment. Be Sure Everyone Who Operates, Maintains Or Repairs The Pressure Washer Has Read This Manual. **WARNINGS AND CAUTIONS MUST BE UNDERSTOOD!**

SAFETY INSTRUCTIONS

WARNINGS

High Pressure Spray Can Cause Serious Injury. This Product Must Be Used ONLY By Personnel That Have Been Instructed In The Safe Use Of This Machine. Observe All Warnings When You Operate, Maintain And Repair The Pressure Washer.

Use This Equipment Only In Well Ventilated Areas And Free Of Combustible Materials, Combustible Fumes Or Dust. Failure To Follow This Warning May Cause Carbon Monoxide Build Up, Fire Or Explosion, And Possible Injury Or Death.

To Prevent Injury Wear The Following Protective Clothing:
Gloves, Work Boots, Hard Hat, Ear Plugs, Mask, Safety Gloves.

Injection Hazard: Fluids Under High Pressure From Spray Or Leaks Can Penetrate The Skin And Cause Extremely Serious Injury. Including Death Or The Need Of Amputation. You Must Observe These Precautions. **Never** Point the Spray Gun At People, Plants, Or Animals.

Never Put Your Hand Or Fingers Over The Spray Tip.

Never Try To Stop Or Deflect Leaks With Your Hand Or Body.

Never Purchase And Use Chemicals Or Detergents That Are Toxic, Flammable, Or High In Acid/Alkaline Base, And Always Request A Material Safety Data Sheet (MSDS) For The Product You Are Purchasing.

Never Use A Powder Type Detergent Or Chemical That Is Not Manufactured For Pressure Washer Use; i.e. Dish Detergent, Laundry Soap.

Get Emergency Medical Treatment At Once If Any Fluid Seems To Penetrate Your Skin, Even If The Wound Does Not Appear Serious. Tell The Doctor Exactly What Fluid Was Injected And Give Him The Material Safety Data Sheet For The Detergent Or Chemical Product You Were Using.

General Warnings & Cautions

Understand ALL The Information This Section Before You Begin To Use The Pressure Washer.

Be Sure That All System Components And Accessory Items Are Original Equipment Or Equivalent.

Be Sure The Machine Is Properly Located For Safe Operation.

NEVER Alter Or Modify The Pressure Washer As Personal Injury Or Death Could Result To Humans, Plants, Or Animals, And Voids Any Warranty Offered By The Manufacturer

NEVER Locate The Equipment Near Combustible Materials, Combustible Fumes, Or Dust, As Personal Injury Or Death Could Result From Fire Or Explosion.

NEVER Spray Flammable Liquids, Toxic Chemicals (Such As Insecticide OR Weed Killer) As Personal Injury Or Death Could Result From Fire, Explosion, Or Poisoning While Damaging The Environment

NEVER Allow Children Or Untrained Adults To Operate The Machine.

Never Wear Loose Clothing And Keep Your Body And Clothing Clear Of Moving Parts When The Machine Is Running.

NEVER Leave The Pressure Washer Unattended Once You Have Started It. If You Must Leave, Follow Complete Shut Down Instructions To Prevent Unauthorized And Untrained Personnel From Operating The Machine.

NEVER Move The Machine By Pulling The Hose.

NEVER Activate The Gun With No Nozzle In The Wand. This Will Cause The "O" Ring To Become Dislodged From The Coupling And The Unit Will Not Function Properly.

NEVER Put Any Type Of Trigger Lock Onto The Gun.

NEVER Place Hands On Motor Or Pump When Unit Is Running. Keep Away From Moving Parts At All Times.

NEVER Allow Children Or Animals Around Your Working Area.

ALWAYS Face Nozzle And Wand To The Ground When Testing.

NEVER Exceed The Pressure Rating Of The Unit's Recommended Pressure.

NEVER Change Color Coded Nozzles With The Nozzle Under Pressure And Without The Gun Safety In The "On" Or "Lock" Position.

NEVER Clean The Machine By Using Its Own Spray Wand.

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LOCATION, WARNINGS & CAUTIONS

The Machine Must Be Used At Or Near The Working Area And Always Under Trained Operator Supervision. The Machine Should Be Located As Close As Possible To The Water Supply.

Locate The Machine On A Solid And Level Surface So That Engine And Pump Crankcase Oil Lubricates Components Properly. Avoid Areas Where Water Can Build Up In The Working Area. Possible Injury Can Occur Caused By The Surface Becoming Slippery From Water Build Up.

Locate The Machine In A Well Ventilated Area And Away From Flammable Materials Or Fumes. Be Sure Ventilation WARNINGS Are Observed. Keep Pressure Washer At Least 36" Away From Flammable Materials.

Locate The Machine So The Operator Has Easy Access To The Pressure Washer And Its Controls.

Locate The Machine So That It Is Protected From External Damage.

To Prevent Damage And Excessive Hose Wear, Locate The Pressure Washer So That The Hose Does Not Cross Traffic Areas.

GAS ENGINE PRECAUTIONS

A Fire Or Explosion Can Occur Resulting In Personal Injury If The Following Instructions Are Not Followed:

1. Do Not Fill Gasoline Tank While Engine Is Running. Allow Engine To Cool For Two Minutes Before Refueling.
2. Do Not Operate The Engine When An Odor Of Gasoline Is Present, Or Other Explosive Conditions Exist.
3. If Gasoline Is Spilled, Move The Machine Away From The Area Of The Spill And Avoid Creating Any Source Of Ignition Until The Gasoline Has Evaporate.
4. Refuel Outdoors Preferably, Or In Well Ventilated Areas With Unleaded Gas Only.
5. DO Not Operate Engine Without Muffler. Operating Without A Muffler, Or With A Muffler That Leaks Because Of Rust Or Damage, Can Permit An Increased Exhaust Noise Level. Inspect Muffler Periodically And Replace If Necessary.
6. Do Not Store, Spill Or Use Gasoline Near An Open Flame, Or Devices Such As Stove, Furnace, Water Heater Which Utilize A Pilot Light, Or Devices Which Can Create A Spark.
7. Do Not Use This Engine On Any Forest Covered, Brush Covered Or Grass Covered Unimproved Land Unless A Spark Arrestor Is Attached To The Muffler.
8. Do Not Operate Engine If Air Cleaner Or Cover Directly Over The Carburetor Air Intake Is Removed.
9. Do Not Choke The Carburetor To Stop The Engine.
10. Do Not Tamper With The Governor Springs, Governor Links Or Other Parts Which May Increase The Governed Engine Speed.
11. Do Not Tamper With The Engine Speed Selected By The Original Equipment Manufacturer.
12. Caution - Do Not Run At Excessive Speeds. Operating The Engine At Excessive Speeds, Increases The Danger Of Personal Injury.
13. Do Not Touch Hot Mufflers, Cylinders Or Fins, As Contact May Cause Burns.
14. To Prevent Hand Or Arm Injury, Always Pull Starter Cord Rapidly To Avoid Kickback.
15. Read Engine Owners/Operators Manual Before Using Or Attempting To Service This Machine.

ELECTRIC MOTOR PRECAUTIONS:

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Do Not Directly Spray Electric Motor, As Shock Hazard Could Occur.

Do Not Allow Electric Plug To Get Wet During Operation. Please Use With Caution !

Do Not Touch Plug With Wet Hands.

Make Sure The Unit Is In The Off Position Before Plugging In.

Make Sure That You Are Using The Correct Voltage And Phase.

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.

It Is Recommended To Connect Your Electric Pressure Washer To A Ground Fault Circuit Interrupter. This Product Must Be Grounded. If It Should Malfunction Or Breakdown, Grounding Provides A Path Of Least Resistance For Electric Current To Reduce The Risk Of Electric Shock. This Product Is Equipped With A Cord Having An Equipment Grounding Conductor And A Grounding Plug. The Plug Must Be Plugged Into An Appropriate Outlet That Is Properly Installed And Grounded In Accordance With All Local Codes And Ordinances.

DANGER - Improper Connection Of The Equipment Grounding Conductor Can Result In A Risk Of Electrocutation. Check With A Qualified Electrician Or Service Personnel If You Are In Doubt As To Whether The Outlet Is Properly Grounded.

EXTENSION CORDS

Extension Cords Are NOT Recommended To Be Used With This Product. If An Extension Cord Must Be Used The Following Requirements Should Be Met:

~ Use Only 3 Wire Extension Cord That Has A Three Prong Grounding Type Plug With The Applicable Amperage To Match The Pressure Washer Being Used.

Use Only Extension Cords That Are Intended For Outdoor Use. These Extension Cords Are Identified By A Marking "Acceptable For Use With Outdoor Appliances; Store Indoors While Not In Use" Use Only Extension Cords Having An Electrical Rating Not Less Than That Of The Product. DO NOT Use Damaged Extension Cords And DO NOT Yank On Any Cord To Disconnect. Keep Cord Away From Heat And Sharp Edges. Always Disconnect The Extension Cord From The Receptacle Before Disconnecting The Product From The Extension Cord. Extension Cords MUST Be Connected To A Grounded Outlet Equipped With A GFCI (Ground Fault Circuit Interrupter). There Is Risk Of Electrocutation If The Extension Cord Is Not Connected To A Grounded Outlet Equipped With A GFCI.

PUMP PRECAUTIONS

1. Never Let The Pump Run When The Machine Is Not Connected To The Water Supply. (Causing Cavitation)
2. Never Run Acids Or Hard Caustics (Such As Lye) Through The Pump.
3. Never Use Chemicals Or Agents Which Are Not Compatible With The Buna-N And PVC (Polyvinyl) Or Neoprene Covering Of The Hose. (Always Use Citrus Based Detergents)
4. Never Use Water With A Temperature Over 140 degrees F.
5. Check For Leaks. Tighten Connections If Necessary.

PRE-OPERATION CHECKLIST

Be Sure You Understand All The Safety Precautions And Have Been Instructed In The Safe Use Of The Machine.

Wear Face And Eye Protection To Prevent Injury From Spray And Flying Debris.

Wear Protective Gloves, Rubber Boots, And Other Protective Clothing As Required.

Understand All Safety Precautions And First Aid For Any Detergent Or Chemical Being Used.

Check That The Machine Is Connected To A Water Supply And That The Water Supply Is On.

Check That All Lines and Hoses Are Not Kinked, Twisted Or Damaged. Replace Any Damaged Hose.

Tighten All Fluid Connections Securely.

Check That Oil And Fuel Levels Are At The Correct Levels Before Operating. (Pump Uses SAE30WT Non Detergent. Engine Uses SAE 10-30W. If your Pressure Washer Is Equipped With A Gear Box, Use 90W Oil For Gear Box.) (See Engine Manufacturer's Manual For Oil Change Intervals). Axial Pumps Are Maintenance Free.

Before Starting Machine Be Sure Pump Is Primed And Air Is Purged From The System By Allowing Water To Flow Through The Pump.

SETUP & USE

Follow These Instructions For Setup And Use Of Your High Pressure Washer:

1. Position The Machine On A Solid Level Surface With Slopes For Drainage To Prevent Liquid Build Up On The Floor Or Surface. Position The Machine So That The Operator Has Easy Access To The Pressure Washer And Its Controls.

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2. Check And Determine That The Water Supply Source Is Capable Of Exceeding The Output In Gallons Per Minute Of The Pump. If You Are Drawing Water From A Clean Static Source, Rather Than A Pressure Main, The Pressure Washer Must Be Primed And Placed As Close As Possible To The Water Source. Be Sure The Machine Is Placed On A Solid Level Surface And Can Not Be Pulled Or Bumped Into The Static Source, And The Intake Hose Used Must Be As Large As Possible. When Drawing Water From A Pressure Source, You Need A Hose With 5/8" Outside Diameter For Lengths Up To 50', Or A 3/4" Diameter For Lengths Up To 100'.

3. Connect The High Pressure Hose To The Pressure Washer And Tighten Securely.

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OPERATING INSTRUCTIONS

Warning: High Pressure Spray, Improperly Used Could Damage The Equipment You Wish To Clean Or The Surrounding Environment. Practice On Scrap Materials, Gradually Increasing Pressure Applied To The Object By Adjusting The Nozzle Or Moving The Nozzle Closer To The Object Until It Is Cleaned Without Being Damage. The Manufacturer Does Not Warranty Damage Caused By The Consumer's Failure To Adjust Or Operate The Machine In Accordance With The Instructions Provided In The Owners Manual Supplied With The Machine. Follow These Instructions To Operate The Machine:

1. Use The Pre-Operation Checklist To Help Avoid Personal Injury.
2. Prime The Pump And Purge Air From The System By Squeezing The Gun Trigger Before Starting The Machine, With The Unit Attached To A Pressure Main. Let The Water Flow From The Wand Until Air Is Purged From System.
3. If Engine Is Equipped With Fuel Valve, Turn Valve To On.
4. Close Choke Lever Located On Engine Carburetor As Per Engine Manufacturer Instructions.
5. Turn Engine Switch To On.
6. If Engine Is Equipped With Throttle Lever, Position Lever To HALF THROTTLE.
7. For Easier Starting, Squeeze The Trigger On The Spray Gun Allowing Water To Pass Through Gun And Grasp The Engine Starter Grip. Pull Lightly On The Starter Grip Until Resistance Is Felt, Then Pull Briskly. Repeat This Step As Necessary Until Engine Starts.
8. As Engine Begins To Warm Up, Gradually Move The Choke Lever To OPEN.
9. If Engine Is Equipped With Throttle Lever, Position Lever To FULL THROTTLE.
10. The Manufacturer Has Adjusted The Pump Pressure To Its Maximum Operating Pressure. Simply Adjust The Pressure Required For Cleaning With The Nozzle As Follows When Your Wand Is Equipped With: Color Coded Nozzles: Change Nozzles To Desired Spray Pattern (0, 15, 25 Degrees) Or Detergent Nozzle (The One With The Larger Orifice) By Quick Coupling On And Off The Nozzle. Do This Only When The Trigger Is Not Squeezed And The Gun Safety Is On.
11. You Are Now Ready To Start Cleaning With Your Pressure Washer. CAUTION: Always Begin High Pressure Washing With The Nozzle At Least Four Feet From The Object Being Cleaned And Gradually Move Nozzle Closer To The Object Until It Is Cleaned Without Being Damaged.
12. To Draw Chemical/Detergent, Be Sure The Pick Up Tube Is Installed Into The Chemical/Detergent Container With the Tube Submerged In The Solution. Change Wand Nozzle To The Brass Soaper Nozzle And Squeeze The Gun Trigger.
13. A Thermal Relief Valve Has Been Added To The Pump To Reduce The Possibility Of Overheating. However, Malfunction Of This Device Does Not Constitute Pump Warranty For Damage Caused By Overheating.
14. As You Operate The Machine, Be Sure The Inlet Garden Hose Does Not Become Kinked.
15. The Maximum Engine RPM Has Been Set At The Factory. Tampering With Engine Governor Will Void Pump Warranty.
16. Do Not Exceed The Manufacturer's Maximum Pressure By Increasing The Unloader Adjustment. (This Will Void Pump Warranty)

SHUTDOWN INSTRUCTIONS

1. Run Only Clean Water Through The Entire Chemical/Detergent System, Then Turn Chemical/Detergent Injection Valve OFF. Injection Hazard: Fluids Under High Pressure From Spray Or Leaks Can Penetrate The Skin And Cause Extremely Serious Injury, Including Death Or The Need For Amputation.
2. If Engine Is Equipped With Throttle Lever, Position Lever To IDLE.
3. Turn Engine Switch OFF.

4. If Engine Is Equipped With A Fuel Valve, Turn Valve To CLOSED Position.

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5. Turn Water Supply To OFF

6. Open Gun To Relieve Pressure, And Drain As Much Water As Possible.

7. Remove Inlet Garden Hose

8. For Safety And your Liability Protection, Remove High Pressure Hose And Store Gun/Wand In A Secure Place With This Owners Manual To Eliminate The Possibility Of Unauthorized And Untrained Personnel From Operating The Machine.

WINTERIZE THE MACHINE

Whenever Your Machine Will Be Subject To Freezing Temperatures, Sever Damage Could Occur Caused By Freezing Inside The Components. To Prevent Costly Repairs, Follow These Steps: (Freeze Damage Is NOT Covered By The Manufacturers Warranty.)

1. Be Sure The Machine Is OFF, Water Supply Is Disconnected, And Pressure Has Been Relieved.

2. Obtain A One-Gallon Container Of NONTOXIC (RV) Antifreeze.

3. Install A Suction Hose From The Pump Inlet (Garden Hose Fitting) Into The NONTOXIC Antifreeze. Following Operation Instructions, Start The Engine And Squeeze Trigger On Spray Gun Allowing The Pump To Draw Anti Freeze Though The Entire System. Once Antifreeze Appears At The End Of The Wand, Turn The Engine Off.

4. Squeeze Gun Trigger To Relieve Pressure, And Remove The High Pressure Hose, Gun/Wand And Store In A Secure Place With The Owners Manual To Eliminate Unauthorized And Untrained Personnel From Operating The Machine.

5. See Engine Owner's Manual For Proper Engine Storage.

6. When Preparing To Operate The Pressure Washer Again, Simply Reconnect To Pressure System Water Supply, Attach The High Pressure Hose Assembly, Turn The Water To "ON" And Squeeze Trigger Allowing Water To Pass Through The System. (Do Not Start Engine.) Once The Liquid Becomes Clear Water At The End Of The Wand, You Are Ready To Begin Operating Your Pressure Washer As Referenced In This Manual.

DAILY PREVENTATIVE MAINTENANCE

DAILY CHECKS

Regular Inspection Of Your Pressure Washer Is The Key To Prolong Its Life. Follow These Simply Daily Checks.

1. Check Air Filter For Dirt And Clean Or Replace As Required.

2. Check Engine Oil Level. (Dipstick Is Attached To Inside Of Oil Cap.)

3. Check Engine Fuel Level.

4. Check High Pressure Hose For Kinks, Twists Or Damage. Replace Any Damaged Hose.

5. Check That The Pump Oil Level Is Within Operation Range On The Pump Dipstick Or To The Center Of The Sight Glass.

6. On Units With A Gearbox, Check That The Gear Box Oil Level Is Within Operation Range On The Gear Box Dipstick.

7. Check The Water Supply Is Adequate For Your Machine.

8. Check Water Inlet Screen And Clean When Necessary.

9. Check The Chemical Supply.

PREVENTATIVE MAINTENANCE

1. Change Pump Oil And, If So Equipped, Gearbox Oil, After Every 250HOURS. (Pump Uses SAE 30wt Non-Detergent Oil. If Your Pressure Washer Is Equipped With A Gear Box, Use 90W Oil For Gearbox.)

2. See Engine Manufacturer's Manual For Oil Change Intervals. (Engine Uses SAE 10-30W.)

3. Axial Pumps Are Maintenance Free - Do Not Change Oil Unless Contaminated

PRESSURE WASHER TROUBLESHOOTING

Notice: Most Problems With Pressure Washers Are Not A Malfunction Of The Pump Or Motor! **Always** Trouble Shoot From Water Source And/Or Nozzle Towards The Pump And Motor. Example: Check Water Supply And Nozzle If Pressure Fluctuates, Unit Is Noisy Or Does Not Reach Full Pressure.

Introduction With Proper Care And Use Of The Pressure Washer, The Unit Should Remain Free Of Problems. Most Problems Are Caused By Careless Or Improper Use Of The Equipment. Operation Of The Unit Without An Inlet Water Supply Will Result In Damage To The Seals And Other Components. Another Common Cause Of Damage Is Running The Unit For Long Periods With The Spray Gun Trigger In Its "Closed" Position. The Later Can Result In High Water Temperatures, Resulting In Damage To Seals And Other Components. Failure Of The Pressure Washer To Operate Properly Is Often Blamed On A Pump Failure. Actually Only About 10% Of Pressure Washer Problems Are Caused By Pump Failure.

Cavitation If The Water Pressure Falls Below A Certain Point (Called Vapor Pressure) The Water Will Begin To Boil Even Though The Temperatures Are Below Normal Boiling Point. Tiny Bubbles Of Vapor Will Then Form In The Boiling Water. If The Vapor Bubbles Are Carried Away To A Higher Pressure Area In The System The Vapor Will Condense Again And Leave A Cavity In The Midst Of The Flow. The Surrounding Water Will Then Rush In To Fill These Cavities. Extremely High Local Pressures Are Then Created (Up To 100,000 PSI). Such High Pressures May Result In Erosion, Turbulence, Noise, Vibration, And Excess Wear And Tear On The Pump.

The Pump Inlet, Where The Pistons Pull The Water In, Are Very Susceptible To Cavitation Problems. Anything That Obstructs The Flow Of Water Into The Pump Can Result In Cavitation Such As:

1. A Clogged Water Inlet Filter
2. Inlet Piping Or Hoses That Are Too Small.
3. Excessive Numbers Of Restrictions In The Water Inlet (Such As Too Many Valves, Or Too Many Bends).
4. Excessive Turbulence Or Heat.

To Prevent Cavitation, Pump Inlets Must Be Carefully Maintained To Avoid Restrictions To Flow.

Some Pressure Washer Problems Some Of The Problems That Might Occur In A Pressure Washer System Are As Follows:

1. Failure Of The Unit To Produce Pressure.
2. Erratic Pressure.
3. Chattering.
4. Reduction In Pressure.
5. Low Water Volume.

If A Problem Occurs - Some Preliminary Checks When A Problem Arises Don't Remove The Pump Immediately And Start Replacing Parts. First Check The Following Possible Causes Of The Problem:

1. Make Sure The Water Supply Is Turned On And The Water Supply Is Adequate.
2. Make Sure The Water Inlet Hose Is Not Kinked Or Damaged.
3. Check The Inlet Water Filter. Clean Or Replace If Necessary.
4. Make Sure The Water Supply Is Not Too Hot. Inlet Water Temperature Should Not Exceed 140 Degrees F.
5. If A Detergent Is Being Used, Make Sure The Detergent Hose Is Submerged And Not Drawing Air Into The System. If Detergent Is Not Being Used, The Chemical Injector Valve Should Be Turned Off
6. Make Sure The Unloader/Regulator Valve Is Properly Adjusted.
7. Make Sure The Pump Outlet Hose Is Not Leaking And Is Not Blocked.
8. Check The Wand And High Pressure Hose Quick Couplers For Missing O Rings.
9. Check That The Nozzle Is Clear And Unobstructed.

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More Troubleshooting Tips

1. If The Pump Is Running But Produces No Flow, Try Priming The Pump.
 - A) To Prime The Pump, Keep Suction At A Minimum And Keep The Discharge Line Open.
 - B) Open And Close The Spray Gun Trigger Repeatedly To Aid The Priming Process.
2. A Chattering Noise Usually Indicates A Restricted Water Supply Or Air Leaks.
 - A) Check For Kinks Or Leaks In The Hoses.
 - B) Look For A Plugged Or Damaged Inlet Water Filter.
 - C) If The Filter Has Been Damaged, Sediment May Have Entered The Pump. The Sediment Will Be Lodged In The Inlet Valve(s) And Must Be Removed.
3. Damage To The Pump Can Result From:
 - A) Inadequate Water Supply, B) Vacuum Lift Too High, Or C) Excessive Water Temperature.
4. Check The Pump Crankcase For Correct Oil Level And For Oil Contamination. If Oil Appears Milky, Water Has Entered The Oil And The Piston Seals Should Be Replaced.

Problems With Detergent Problems With The Use Of Detergent Are Often Caused By Incorrect Procedures On The Part Of The Operator. Problems Encountered That Involve The Use Of Cleaning Agents Can Often Be Attributed To One Or More Of The Following:

1. Wrong Nozzle: Use The Brass Soaper Nozzle When Using Detergents.
2. Hose Is Not Fully Submerged In Solution: IF The Tube Is Not Fully Immersed, The Unit Will Be Picking Up Air.
3. Injection Valve Is Closed: The Detergent Valve Must Be Open In Order To Pick Up Detergent.
4. Wrong Type Of Detergent: Only Those Soaps Designed Specifically For Pressure Washers Should Be Used. Household Detergents COULD Damage The Pressure Washer.

Most Frequently Asked Questions

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What Kind Of Oil Should I Use?

Engine: Check Engine Manufacturer's Manual (SAE 10-30W)

Triplex Pump: SAE 30WT Non-Detergent - Axial Pumps 70W90 Synthetic Lube - Maintenance Free

Gearbox: If Your Pressure Washer Is Equipped With A Gearbox, Use 90W Oil.

My Pressure Washer Won't Start...

Are Engine Controls Set Properly?

Do You Have Fuel In Your Machine?

Is The Engine Oil Low?

How Do I Get The Soap Suction To Work?

Replace The High Pressure Stainless Steel Nozzle With The Brass Soaper Nozzle.

How Do I Adjust The Pressure At The Unloader?

Turn The Unloader/Regulator Knob Clockwise To Increase Pressure And Counter-Clockwise To Decrease Pressure.

I Don't Have Any Water Pressure...

Do You Have Any Kinks, Leakage, Or Blockage In Hoses, Fittings Or Nozzle?

Is The Brass Soaper Nozzle Attached To The End Of The Lance?

Have You Let The Unit Run In Bypass For Longer Than 3 Minutes (Pump Running, Gun Trigger Not Depressed)

Have You Checked The Nozzle For Excessive Wear?

What Type Of Battery Do I Use? (Electric Start Models Only)

A Lawn & Garden Tractor Style Battery Is Recommended - 12 Volt - 24AH or Larger

AT A GLANCE

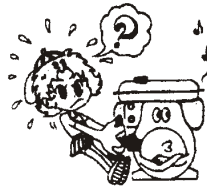
WHEN ENGINE DOES NOT START:

Consult Your Engine Owner's Manual.

Help On Line@ www.honda.com

www.briggsandstratton.com

www.robinamerica.com

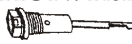


 The Pump Has Been Shipped With Oil. Before Operating The Pressure Washer Check The Oil Level Of The Pump. The Oil Level Should Be At The Center Of The Sight Glass On The Side Of The Pump.

Add SAE 30WT Non Detergent Oil If Required.

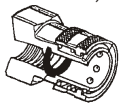
Maintenance Free Axial Pumps,
Do Not Need To Be Checked



CAUTION: Remove The Plastic Shipping Plug From The Pump Oil Fill Tube And Replace It With The Vented Cap  Provided Or Damage To Your Pump May Occur. Some Models Have Tape Over The Vent Hole. Remove Tape Prior To Use. Other Models Have A Vented Oil Plug With No Dipstick Indicator. Before Starting The Pressure Cleaner, Check For Loose Or Missing Parts And For Any Damage Which May Have Occurred During Shipment.

QUICK -DISCONNECTS

The Hose, Gun, Tips, And Chemical Injector Are Equipped With Quick-Disconnects.



There Is An O Ring Seal Inside The Female Quick Connect Which Will Deteriorate Or Blow Out Occasionally. This May Occur If The Unit Is Allowed To Pump Without The Hose Or Nozzle Attached. Simply Insert A Replacement O Ring To Correct the Leak.

The Hose, Chemical Injector, And Hose Connection On The Spraying Gun Use 3/8" Sockets And Plugs. The Tips And The Connection At The Ends Of The Wand Are 1/4" Sockets And Plugs.

Quick Disconnects Allow For Fast And Easy Changes Of Guns, Extension Tips, And Hoses. No Tools Are Required. **CAUTION:** Make Sure That The Couplers Are Locked Together Securely Before Starting The Unit.

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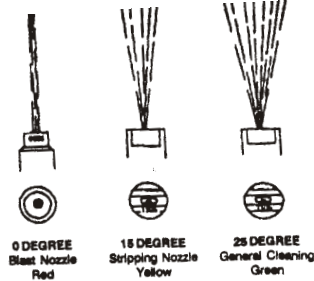
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NOZZLE SELECTION GUIDE

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CAUTION: Make Sure That The Tips Are Locked Securely. Never Point The Pressure Spray At Any Person Or Any Part Of The Body. Eye Protection Should Be Worn To Insure Proper Safety.



0 DEGREE - BLASTING - Red Nozzle

- Removing Caked On Mud From Heavy Construction, Farm Or Lawn Equipment.
- Cleaning Tar, Glue Or Stubborn Stains From Concrete.
- Removing Excess Mortar From Masonry.
- Cleaning Overhead Areas.
- Removing Rust From Steel And Oxidation From Aluminum.

15 DEGREE - STRIPPING - Yellow Nozzle

- Removing Paint From Wood, Masonry Or Metal
- Removing Grease Or Dirt From Equipment.
- Removing Heavy Mildew Stains.
- Removing Marine Growth From Boats And Marine Equipment.
- Removing Rust From Steel And Oxidation From Aluminum.

25 DEGREE - CLEANING - Green Nozzle

- General Cleaning Of Dirt, Mud And Grime.
- Cleaning Roofs, Gutters And Downspouts
- Removing Light Mildew Stains.
- Removing Algae And Bacteria Build - Up From Pools
- Rinsing Surfaces In Preparation For Painting.

65 DEGREE - CHEMICAL APPLICATOR - Black Nozzle

The Chemical Injection System Is Designed To Apply Detergents Under Low Pressure Only. It Will Not Allow Detergent Solutions To Be Introduced Into The Detergent System Unless The Detergent Nozzle, Identified By The Number 6540.



ADJUSTABLE PRESSURE

The Pressure Is Adjustable By Turning The Pressure Adjustment Knob Located On The Outlet Side Of The Pressure Washer. The Knob Must Be Set At The Extreme Clockwise Position For Maximum Pressure And Turned Several Turns Counter Clockwise For Minimum Pressure.

NOTE: With The Pressure Adjustment Knob Turned To The Maximum Pressure Position (Clockwise), The Pump Pressure May Exceed The Rated Pressure Of The Machine Which Could Overload The Engine. Do Not Force Adjustment Past Factory Setting.

Adjust The Knob Counter-Clockwise To Reduce The Pressure And Lower The Power Requirements Of Your Pressure Cleaner Pump. NOTE: Some Models Have A Different Type Of Pressure Adjustment Knob, Or Certain Models Do Not Have A Pressure Adjustment. The Pressure May Also Be Regulated By The Use Of the Engine Throttle.

INLET WATER FILTER

The Pressure Cleaner Is Equipped With A Stainless Steel Water Inlet Screen To Protect The Pump.



TROUBLE SHOOTING SYMPTOM	CAUSE	SOLUTION
Engine won't start	No Fuel	Check and fill
	Spark plug	Replace spark plug
	Low oil level	Add oil to engine to fill level
Engine is overloaded	Nozzle partially blocked	Clean nozzle
	Excessive pressure	Reduce pressure by turning adjustable unloader valve counterclockwise
Pump running normally, but pressure does not achieve maximum rating	Water supply restricted	Check water supply and filter screen for blockage. Check hoses for blockage, kinks, leaks, etc
	Open faucet	Thaw out unit completely, including hose, gun, ball valve, and foot valve. Unit may have been stored in freezing temperature
	Closed faucet	
	Pump sucking air	Check that hoses and fittings are air tight
	Unloader valve seat faulty or worn	Check and replace
	Nozzle incorrect or worn	Check and replace
	Worn piston packing	Check and replace
Fluctuating pressure	Valves worn, dirty or stuck	Check, clean or replace
	Pump sucking air	Check that hoses and fittings are air tight. Purge air from garden hose
Pressure drops after period of normal use	Nozzle worn	Check and replace
	Valves worn, dirty or stuck	Check, clean or replace
	Nozzle clogged or partially obstructed	Clean or replace
	Worn piston packing	Check and replace
Pump noisy	Pump sucking air	Check that hoses and fittings are air tight.
	Worn bearings	Check and replace if necessary
	Water too hot	Reduce temperature below 140 degrees F, or replace thermal relief valve is necessary
Presence of water in oil (oil is milky)	High humidity	Check and replace oil
	Piston packing & oil seals worn	Check and replace oil
Water dripping from pump	Piston packing worn	Check and replace
	O-rings of piston guide or retainer worn	Check and replace
	Fittings loose	Check and tighten
Oil dripping	Oil seal worn	Check and replace. A small amount of leakage is normal
	Oil level too high	Drain level to center of sight glass
Recoil starter hard to pull	Static back pressure built up in outlet hose	Relieve pressure by squeezing trigger, ball or foot valve, or turn adjustable unloader counter clockwise during starting