Gas Engine Cold Pressure Washers

All Models

Owner's Manual

• Assembly & Start-up
• Operation
• Maintenance
• Cleaning Compounds & Mixing
• Trouble Shooting

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Thank you!

For ordering a Jenny®. Jenny has been manufacturing steam cleaners and pressure washers since 1927. We feel sure that each day you will appreciate more and more the savings in time and labor and the profit-making possibilities afforded by your new Jenny. Special attention has been given to every detail of engineering design, perfection of manufacturing methods, individual part inspection and thorough testing upon completion to assure the continuous trouble-free operation of your Jenny.

In short, your Jenny was designed and made by customer-minded workers. If you, for any reason, fail to find that our product serves as you believe it should, you will be doing yourself and us a favor by telling our Customer Representative, through our Distributor - or direct, just how our product has failed to please you. Over the years we have found that when troubles are reported by our customers, both of us profit. So please help us to serve you properly, which is our first desire.

Jenny Cleaning Compounds are made exclusively for use with Jenny and are the best, most economical and most effective cleaning agents you can employ. They have no gritty or insoluble matter which might damage the coils or pumping mechanism of your unit. They contain active chemicals and are highly concentrated for 100 per cent cleaning and maximum economy. Your Jenny Distributor will be pleased to supply your needs.

In the march of progress, engineering and design changes are inevitable, therefore, we reserve the right to vary our designs and/or specifications without implying that they need to be installed on previous models. If you have occasion to order parts or request information about your Jenny, be sure to give model and serial number.

You will find this booklet a valuable guide to the proper and safe operation and maintenance of your new Jenny. It is intended to be used by anyone using or maintaining the equipment. Follow the instructions carefully and you will assure yourself of the utmost in cleaning efficiency and economy.
How we clean...

There are four elements necessary for efficient cleaning no matter what method is used. They are:

1. WATER
2. CHEMICAL
3. HEAT
4. PRESSURE

Varying any one of these four elements will change the cleaning characteristics. Because of this, compensation can be made for deficiencies in any element. In other words, if you were to use a small amount of chemical, or a weak one, then by adding more heat or pressure effective cleaning could be attained. However, for any type of cleaning, there is always one combination of these elements which produces the best results from a standpoint of time required, thoroughness and cost.

Washing one’s hands is an example of the four “elements of cleaning” at work. When hands are simply coated with a dried non-greasy deposit, water alone will wash it away. A high volume of free flowing water will speed the process because the impinging force loosens the dirt and the volume floats or flows it away.

When dirt contains an oil, or grease, a chemical must be used. In hand-washing the chemical is commonly referred to as soap. Because soap is an emulsifier, the hands can be cleaned, to some degree, using cold water. After the soap is applied, the hands are rubbed briskly together. The friction creates heat plus an abrasive action, which help to break down and loosen the dirt particles. Using hot free-flowing water will result in faster cleaning as the soap and heat will emulsify the dirt more effectively, while the impingement of the pressure loosens it and the volume carries it away.

Steam Cleaning Concept

Someone once thought that if cleaning efficiency increases in ratio to the temperature of water used, then steam would provide an excellent cleaning medium. They quickly learned, however, that steam being a wholly gasified liquid-lacking in mass or body-will not clean. Steam, for cleaning purposes, can be compared with air as used in sandblasting. Air in itself does not clean. It is only the carrying medium. The sand particles actually do the cleaning. When this fact became known, the next logical step was to blend water with the steam thus providing body for impingement and flushing action. But this, too, proved to be ineffective. The heat of this steam did tend to break down the dirt deposit, and the added water provided a moving force. But the end result was simply displaced dirt . . . dirt moved from one area to another. It was quite evident that another element was necessary if thorough cleaning was to be done.
A chemical was next added to provide an emulsifying agent. Now with water, steam and chemical, the dirt was emulsified, loosened and carried away.

**THIS, IN ESSENCE, IS EXACTLY HOW A JENNY STEAM CLEANER OR PRESSURE WASHER OPERATES AND CLEANS. IT COMBINES, IN BALANCED COMBINATION, THE FOUR ELEMENTS NECESSARY FOR EFFECTIVE THOROUGH CLEANING . . . WATER, CHEMICAL, HEAT AND PRESSURE.**

**Pressure Washer Concept**

The next logical step for Jenny was to find differing combinations of the four basic cleaning elements that were effective and performed a thorough cleaning job. It was clearly evident that changes in any one of the four elements of cleaning could be compensated for by changes in another element. From the varied attempts, it was clearly evident that a balance could be reached using a lower temperature or ambient temperature at a very high pressures and increased volumes of water. This conclusion brought forth the Hot Pressure Washers and Cold Pressure Washers.

**How a Jenny Works...**

It should be made clear at this point that a steam cleaner does not generate steam in the true sense of the word. The name of the machine is a gross misnomer. It is actually a **CHEMICAL VAPOR SPRAY CLEANER!**

The reason the name has persisted is because the vapor spray directed through a cleaning gun does resemble steam. Actually it consists of 85-90% solid water. The remaining steam is a by-product of creating pressure through heat. Because the name steam cleaner is synonymous with this type of cleaning device we will continue to refer to the machine as such.

At normal atmospheric pressures water heated in an open pan boils at 212° F. However, if the pan is covered, such as in the case of a pressure cooker, the water can be heated to temperatures above 212°F before boiling. Much the same happens in a Jenny Steam Cleaner. The heating coil located within the combustion chamber of a steam cleaner is subjected to intense heat. As cold water is pumped through the heating coil an orifice, or restriction, placed at the discharge end impedes its flow. As the water is heated it cannot expand, nor convert to steam, because of the “artificial atmosphere” created by the restriction. Because this condition exists the water reaches a temperature of 325°F., and yet remains in solid form. Once past the restriction the water does have a chance to partially vaporize and when finally escaping to atmosphere the temperature immediately drops to its atmospheric boiling point (212°F). As this happens the spray bursts into millions of tiny droplets of water having a great impingement force (The expansion of the water to Steam can be up to 170 times).

Typically, the operating temperatures of pressure washers are far below a steam cleaner's 325 Degrees F running somewhere between ambient temperature and 180-200 Degrees F
depending on the type of pressure washer. Since these temperatures are below the boiling point of water, the water is incapable of producing pressure through elevated temperatures. Consequently, another method of producing pressure must be employed. High pressure and volume pumps are employed to achieve the desired pressures. The high pressure pumps are capable of producing incredible water pressures at very high flow rates. The pressures can reach upward of 5000 pounds per square inch (PSI) and the volumes can be as great as 10 gallons per minute (GPM).

Pressure Washers do not create steam at 325°F and subsequently do not achieve their impingement forces the same way as do steam cleaners. Pressure washers achieve their impingement force through the use of higher pressures and volumes since the temperatures produced do not cause a vapor expansion like a steam cleaner. Pressure washers make up this deficiency in temperature with the combination of increased pressures and volumes. The pressures can reach upward of 5000 pounds per square inch (PSI) and the volumes can be as great as 10 gallons per minute (GPM). This allows pressure washers to achieve similar cleaning results as steam cleaners since the increased pressures and volumes will compensate for the temperature differences.

There are basically two types of pressure washers; Hot Pressure Washers and Cold Pressure Washers. The both work in a very similar manner with the only difference being the addition of heat.

Hot Pressure Washers function somewhat differently than Steam Cleaners although they both may have almost completely identical systems. Hot Pressure Washers do not create steam at 325°F and subsequently do not achieve their impingement force as the super heated water reaches the atmosphere as described above. However, the water is heated to approximately 160° to 200°F and the impingement force is attained from the very high pressure and volume generated by the pumping system. This allows Hot Pressure Washers to achieve very similar cleaning results as steam cleaners on many applications.

Cold Pressure Washers, as the name implies, use cold or ambient water temperatures in the cleaning process. With the lack of heat, we found that by using a larger volume of water at significantly increased pressures we could achieve similar cleaning results as many steam cleaners and hot pressure on applications where the cleaning was not grease or oil based. Unlike a steam cleaners which achieve their impingement force from the 140-170 times expansion of super heated water hitting the atmosphere, cold pressure washers attain this force through shear pressure and an increased volume.

It must be noted at this time, that every type and style of pressure washer and steam cleaner has certain applications in which they will produce the best overall cleaning result based on the application, specified criteria, time required, cost, and thoroughness of the job. Not any one machine is the best overall at every application. There is continually a trade off of effective versus efficient cleaning.

This continual trade-off led to the idea of the Combination machine. Combination machines combine the cold pressure washer, hot pressure washer into the same unit, hence, the name Combination Machine. With these types of unit, you get the versatility of 3 cleaners in 1. As
easy as flipping a switch, the machine can go from a cold pressure washer to hot pressure washer. Change the tip in the gun and flip the machine selector switch, and the machine becomes a 325°F steam cleaner.

**Jenny’s Four Basic Systems...**

A Jenny Steam Cleaner or Hot Pressure Washer has four basic systems. They are:

1. WATER
2. SOLUTION (chemical or “soap”)
3. FUEL
4. ELECTRICAL

Through these four basic systems we combine the cleaning elements (water, chemical, heat and pressure) in a fully self-contained unit. These four systems will be described in more detail.

**WATER SYSTEM**

Water enters into the system through an inlet strainer directly into the high pressure pump. The inlet strainer will filter out particles that are being carried in the water supply hose. Water is drawn from the supply, at a constant volume, by the pump where the pressure is increased dramatically. Because the unit is equipped with nozzle control, an unloader, a flow actuated valve, is also connected to the outlet of the pump. The unloader diverts the water from the pump back to the inlet of the pump when the cleaning gun is closed. Also connected to the pump is a pressure relief valve. This device helps protect the pump from a blocked cleaning gun and will provide an indication of any other restrictions which may be present in the system. After the water gets through the unloader, it passes through a siphon injector. The injector is designed to draw soap into the system. Following the injector, are hose and cleaning gun assemblies. The cleaning gun can be fitted with either a pressure wash tip or a soap tip. The pressure tip restricts the flow of water through the system and cause the unit to operate at the correct pressure with the appropriate temperature rise. Because this unit is equipped with nozzle control, the cleaning gun handle is also a valve which will turn the cleaning spray on or off.

**SOLUTION SYSTEM**

The solution system for these units consists basically of a solution tank or a separate container, a solution metering valve, and often a solution nozzle. Solution, in a low pressure soap system, is either metered directly from the solution container directly into the outlet of the pump through the use of a soap injector. A soap injector is used to draw soap into the system, however, this is achieved only under low pressure applications and requires a special soap tip. The soap is drawn through a metering valve so that the desired levels of solution concentration can be
obtained.

ELECTRICAL SYSTEM

The electrical system for cold pressure washers is very simple. If the unit is electrically powered, then the unit has a motor starter and a motor. The motor start is a contactor and a thermal overload assembly designed to start and stop the motor, as well as, protect the motor from different current situations. The motor is the drive system for the pump and basically converts electrical energy to mechanical energy.

Gasoline units also have very simple electrical systems. If the engine is a rope start model, then it consists of a magneto and an On/Off switch. The magneto generates current for the spark plug to fire the engine. The switch allows determine if the spark can reach the plug.

If the unit is an electric start model, then it consists of a starter, an alternator, a rectifier, battery and a switch. Basically, the starter draws power from the battery to start the rotation of engine and produce ignition. After the unit is started and is running, the alternator produces power to continue the ignition process and charge the battery. Since this is a direct current type system and the power being produced is alternating current, the power must be sent through a rectifier in order to convert the current being produced from alternating to direct current.

FUEL SYSTEM

Since this is a cold water application, and no heat is produced, there is no real fuel system on cold pressure washers. However, on Gasoline engine machines there is a fuel system for the engine. It consists of a fuel tank, fuel filter, and fuel pump. The pump pulls fuel from the tank, through the fuel filter, and into the carburetor of the engine.
SAFETY AND HEALTH INSTRUCTIONS
FOR SAFE USE

THIS PRODUCT CAN CAUSE SERIOUS INJURY OR DEATH IF NOT USED IN ACCORDANCE WITH THE FOLLOWING SAFETY INSTRUCTIONS. WE CAN NOT ANTICIPATE EVERY POSSIBLE CIRCUMSTANCE THAT MIGHT INVOLVE A POTENTIAL HAZARD. THE WARNINGS, CAUTIONS, DANGERS, AND SAFETY SUGGESTIONS ARE THEREFORE NOT ALL INCLUSIVE. AS THE OWNER YOU ARE RESPONSIBLE FOR THE SAFE OPERATION OF THIS EQUIPMENT. ALWAYS MAKE SURE THAT ANYONE USING THIS EQUIPMENT HAS READ THIS MANUAL AND FOLLOWS THE SAFETY WARNINGS TO HELP PREVENT THE POSSIBILITY OF PERSONAL INJURY TO THE OPERATOR OR ANYONE ELSE. IF ANY OPERATING PROCEDURE, INSTALLATION, MAINTENANCE, OR WORK METHOD NOT SPECIFICALLY RECOMMENDED IS USED, YOU MUST SATISFY YOURSELF THAT IT IS SAFE FOR YOU AND OTHER PERSONS. YOU MUST ALSO ENSURE THAT THE PRODUCT WILL NOT BE DAMAGED OR MADE UNSAFE BY THE PROCEDURE YOU CHOSE.

In the event that an injury does occur, please seek medical attention at once since the equipment may cause injuries that are not initially recognized.

1. Wear proper protective clothing and equipment.

   Wear full eye protection (preferably a face shield) while operating this product. The pressurized spray from this unit can cause severe injury to the eyes. It also may contain irritating or caustic chemicals.

   Wear proper protective equipment (eye protection or full face protection) while pouring chemicals into the holding tank. Follow the instructions on the chemical container or accompanying Material Safety Data Sheet (MSDS Sheet).

   Wear protective clothing, gloves, and rubber boots that is made of material such as vinyl, rubber or PVC which will help protect the operator from not only water, but the type of cleaning compound(s) being used and the type of dirt/grease being removed from the surface being cleaned.
Wear hearing protection while operating this product. Prolonged exposure to noise can cause hearing loss.

2. Explosive fuel.

Gasoline is extremely flammable and its vapors can explode if ignited. Store gasoline only in approved containers, in well-ventilated, unoccupied buildings, away from sparks or flames.

Do not fill the fuel tank while the engine is hot or running, since spilled fuel could ignite if it comes in contact with hot parts or sparks from ignition.

Do not start the engine near spilled fuel; wipe up spills immediately. Never use gasoline as a cleaning agent.

Do not fill the fuel tank to the point of over flowing. Allow approximately 1-1/4" of tank space for expansion.

Shut off fuel valve on engine before transporting unit to prevent fuel leaking from carburetor.

3. Do not touch the exhaust system, cylinder head or crankcase when hot.

The crankcase, cylinder head, exhaust system, and other components can get extremely hot from operation. To prevent severe burns, do not touch these areas while the engine is running - or immediately after it is turned off. Never operate the engine with heat shields or guards removed.

4. Do not inhale engine exhaust gases.

Engine exhaust gases contain poisonous carbon monoxide. Carbon monoxide is odorless, colorless, and can cause death if inhaled. Avoid inhaling exhaust fumes, and never run the engine in a closed building or confined area without adequate ventilation.

5. Do not spray people, animals, or any living thing.

The pressurized spray from this product can cause serious injury or death if sprayed at people, animals, or any living thing. This machine is capable of producing extremely high pressures and/or temperatures. The high temperature pressurized spray can cut exposed flesh like a knife. The spray can also cause severe irritation, cuts and/or burns. It can inject water and/or harmful chemicals into the skin, and this can cause serious injury or death. To prevent this from happening, always hold the cleaning gun securely in both hands at all times.
Never point spray at people, animals, or any living thing.

Never put hands or fingers over the spray tip while in operation.

If an accident occurs and the spray appears to have penetrated the skin, even if the injury appears to be minor, seek medical care immediately. Do not treat as a simple cut. Be prepared to tell a physician what chemicals you are using.

For Treatment instructions, have your physician contact the nearest regional poison information center for more information.

6. Do not spray energized electrical equipment.

Electrical power must be removed from all equipment that is being sprayed. Electrical current from energized electrical equipment can travel up the stream of pressurized water and cause serious injury or death. Remove power and “lock out” the switch box that supplies power. For more details, please refer to U.S. Department of Labor, Occupational safety and Health Administration, Regulation 29 CFR 1910.147, Control of Hazardous Energy Source (lockout/tagout).

Do not permit the cleaning gun to come into contact with any energized electrical equipment. The cleaning gun is conductive and could pass electricity to the operator which may result in injury or death.

Always respect and remain alert to potential electrical hazards.

7. Do not use in flammable or combustible atmosphere.

This product is not intended for use in locations where fire or explosion hazards may exist due to the presence of flammable vapors, liquids or gases or combustible dusts or fibers.

Do not use this product to spray flammable or combustible chemicals.

Do not use this product to spray petroleum-based solvents or chemicals.

8. Do not let the pump without water flowing through the unit.

Never allow the machine and/or the burner to run with out water flowing through the unit or with an inadequate water supply. This may cause severe damage to the machine, operator and/or bystander.

9. Never attempt to clean or wash down the machine using its own spray gun.

Do not use the spray wand of the machine to clean or wash down the unit. The machine is water protected, but it is not water proof.
10. Always shut down the unit and refuel away from open fires or sparks.

Due to the explosive nature of the fuels involve in running this type of equipment, never attempt to refuel this unit while it is in operation, or anywhere close to open fires or sparks. Do not smoke while refueling the unit.

11. Do not over fill the fuel tanks.

Do not over fill the fuel tanks. If any spillage does occur, clean up and/or neutralize the spilled fuel before any attempt to use the machine is made. It may be prudent to move the machine away from the area where the fuel was spilled before using the equipment.

12. Do not permit untrained personnel to maintain or make repairs on this unit.

Only qualified personnel should be permitted to make any type of repairs to this unit. Improper repairs may cause this unit to malfunction which could result in serious injury or death to the operator, repair person, or bystander.

13. Never modify or alter this unit.

For your own safety as well as others, never allow this unit to be altered or modified. Modifying or altering equipment to operate in a fashion other than its original design may cause serious injury or death.

Never exceed the factory pressure or temperature rating of the system. Be sure that all accessory equipment and system components meets or exceeds the pressure and temperature developed by the unit.

14. Do not operate this unit with any of the safety controls bypassed.

This unit was designed with safety in mind. Never allow anyone to bypass, modify, or alter any of the safety devices on this unit. If any of the safety devices appear to be disfunctional, do not operate the unit and immediately contact a qualified technician.

15. Risk of Asphyxiation.

The pressurized spray from this unit can cause particles as well as vapors to become airborne. Keep a safe distance from the vapors and airborne particles. Wear protective breathing apparatus. Use only in a well ventilated area.

Never use the equipment to spray toxic chemicals. The risk of inhalation or contact with the skin may result in injury or death.

This unit must be vented when operated indoors. This unit produces both carbon dioxide and carbon monoxide (a poisonous gas) which can displace oxygen and
may result in asphyxiation. Comply with all National, State, and Local codes for locating, venting, and using the machine in an enclosed area.

16. Do not operate unit with damaged or worn hose, fittings, clamps, or spuds.

Always check the cleaning hose, by-pass hose, fittings, clamps, and spuds prior to operation. Replace all damaged or worn items with one which meet or exceed the specifications of the original equipment. The use of an improper hose, fitting, clamp, or spud may cause the hose, fitting, clamp, or spud to rupture which could result in serious injury or death.

Never attempt to stop or deflect a leak with any part of your body (including the use of a rag). The risk of injection is present.

17. Do not repair damaged hose or fittings.

Replace all damaged hoses and/or fittings with ones which meet or exceed the specifications of the original equipment.

Do not use the hose if cuts, leaks, abrasions, bulges, or coupling damage is evident.

Never remove any hose or fitting while the unit is on. The risk of fluid injection is present.

18. Do not route hose in a manner that will cause sharp bending, kinking, cutting, abrasion, or exterior damage.

19. Do not pull on the hose to move the unit, untangle knots, or any other excessive pulling stress.

20. Do not attempt field repairs on the hose or repairs through an unauthorized hydraulic repair shop.

The hose, couplings, and crimping specifications are specially designed and manufactured for use with steam cleaners and pressure washers and are different from standard hydraulic hose. Contact the nearest distributor for repair or replacement of the damaged hose.

21. Disconnect the spark plug lead before cleaning or servicing.

To help prevent injury while this product is being cleaned, serviced, or repaired, the spark plug lead must be removed. Ground the lead to prevent sparks that could cause fires.

22. Do not touch electrical wire or components while the engine is running.

They can be sources of high voltage electrical shock which could cause severe injury or burns.
23. Provide at least three (3) feet of clearance to adjacent construction.

24. Always release the system pressure from the cleaning gun and hose prior to service, storage, daily shutdown, and/or disconnecting the hose or gun from the unit.

Always release pressure from the cleaning gun and hose prior to service, storage, daily shutdown, and/or disconnecting the hose or gun from the unit. Pressure contained within the unit could be released unexpectedly and could cause injury.


Always shut off the machine and relieve the system pressure before leaving the unit. Never leave an operating machine unattended.

26. Never allow children or any unauthorized persons to operate the machine.

Allow only person trained in the use of the equipment to operate the unit. Never allow children or unauthorized personnel to operate the unit. Keep all persons at a safe distance when the machine is being operated.

27. Chemicals used for cleaning are dangerous.

The cleaning chemicals used in conjunction with steam cleaners and pressure washers can be very aggressive not only on the surface being cleaned, but on the operator or bystander. Proper care must be exercised when using cleaning chemicals.

Keep all chemicals out of the reach of children.

Proper safety precautions must be taken when handling, storing, and using chemicals.

Always have a clean supply of water available to wash off any chemicals that have come in contact with the skin and/or eyes.

If any contact occurs with the eyes, immediately flood the eyes with clean water for at least 15 minutes and seek medical attention at once.

If contact occurs with the skin, flood the affected area for 15 minutes with clean water. If irritation persists, seek immediate medical attention.

If chemicals are swallowed, follow the label product label directions and seek immediate medical attention.

For Treatment instructions, have your physician contact the nearest regional poison information center for more information.
Always read and understand the Material Safety Data Sheet (MSDS) on all chemicals before using them.

26. Use only Jenny Products repair parts and accessories.

To preserve the safety features that are built in to this product, use only Jenny Products repair parts and accessories.

This product must be periodically serviced in accordance with the instructions in this owner’s manual.
Assembly & Initial Start-up Procedure

Your Jenny unit was tested at our factory as part of the manufacturing process. The machine will function as designed if properly assembled, set up, and operated.

1. Check the box for possible shipping damage.

If extensive damage is apparent to the box, please notify the freight carrier immediately. Do not open the box. Wait for the freight carrier's inspector to be present before opening.

2. Open the shipping box and inspect for damage and missing components.

You should find:

- 1 - Jenny Cleaning Unit
- 1 - High Pressure Hose
- 1 - Cleaning Gun Assembly (may be in 2 parts)
- 1 - Red Hex Plug (not all units)
- 1 - Instruction Manual and Warranty Card(s)
- 1 - Spare parts bag (not included with all units)

If any of these components are missing, please notify the distributor from whom the machine was purchased immediately.

Inspect the unit carefully for any possible hidden damage. If the unit or any of the components are damaged, please notify the freight carrier immediately. Do not attempt to repair or use the unit or any of the components.

3. Record the machine model number, serial number, and specifications located on the machine chassis. Fill out the enclosed warranty card.

4. Remove the unit from the shipping pallet and place on a level surface.

This can be accomplished by removing the tie down straps or shipping bolts located on the chassis.

5. Locate the cleaning machine in a safe work area.

Place the cleaning machine as close to the work area as is safely possible. Leave a minimum of 3 feet clearance around the unit for work space.

If the machine is to be used in an enclosed area, make certain that there is proper ventilation for the exhaust gasses and/or water vapors. See VENTILATION REQUIREMENTS.

Do not place the unit where it will be exposed to cold air or freezing temperatures. This may cause the unit to freeze which will result in severe damage to the entire water system.
Do not place the unit in such a manner where it may come into contact with its own spray. Electrical shock may result.

6. Place the washer on a level surface. If so equipped, remove the black shipping cap from the top of the pump and replace with the red hex breather cap. Ensure that the oil level inside the pump and the gear reduction is filled to the center of the red dot on the oil sight gauge or on the dip stick. See ADDING OIL -- TRIPLEX PUMP.

7. If the unit is gasoline engine driven, add oil and gasoline to the engine according to the manufacturer’s instructions.

Gasoline is extremely flammable and its vapors can explode if ignited. Store gasoline only in approved containers, in well-ventilated, unoccupied buildings, away from sparks or flames.

Do not fill the fuel tank while the engine is hot or running, since spilled fuel could ignite if it comes in contact with hot parts or sparks from ignition.

Do not start the engine near spilled fuel; wipe up spills immediately. Never use gasoline as a cleaning agent.

Do not fill the fuel tank to the point of over flowing. Allow approximately 1-1/4" of tank space for expansion.

Shut off fuel valve on engine before transporting unit to prevent fuel leaking from carburetor.

Do not touch the exhaust system, cylinder head or crankcase when hot.

The crankcase, cylinder head, exhaust system, and other components can get extremely hot from operation. To prevent severe burns, do not touch these areas while the engine is running - or immediately after it is turned off. Never operate the engine with heat shields or guards removed.

Do not inhale engine exhaust gases.

Engine exhaust gases contain poisonous carbon monoxide. Carbon monoxide is odorless, colorless, and can cause death if inhaled. Avoid inhaling exhaust fumes, and never run the engine in a closed building or confined area without adequate ventilation.
8. If gun and lance are in separate pieces, attach the lance to the trigger gun. Attach quick coupler of pressure hose to pressure outlet on washer. Attach one end of the pressure wash hose to the cleaning gun assembly and the other end to the cleaning unit.

Tighten all connections securely. Use pipe dope or teflon tape to help seal the connections that require the use of a wrench.

Do not use a quick connector where the cleaning gun meets the hose. Risk of injection.

9. Mix Jenny cleaning compound as instructed on the label and fill the solution tank or separate container. See CLEANING COMPOUNDS AND MIXING.

If the unit requires a separate solution container, insert the siphon strainer located near the pump and unloader end of the unit into the solution container.

Use only cleaning compounds that are compatible with steam cleaners or high pressure washers. The use of incompatible soaps may cause the machine to become clogged and malfunction or reduce the life of the pump and machine.

Do not use this unit to spray flammable or combustible chemicals.

Some chemicals used for cleaning are dangerous.

10. Connect the machine to an adequate cold water supply ensuring that the inlet water strainer is clean and free from debris.

A good rule of thumb to determine if the water supply is adequate, is that the free flowing water (straight out of the hose without restrictions) should be at least 1.50 times the gallons per minute output of the machine. See SPECIFICATION SECTION for the exact gallonage of the machine.

If the water is being supplied by a well, make certain that the well produces enough water to keep up to the cleaning machine. This may have to be checked over a period of several hours.

Use at least a 5/8 inch inside diameter water supply hose for any length of hose under 50 feet and 3/4 inch inside diameter for any length of hose over 50 feet.
Assembly & Initial Start-up Procedure

**NOTICE**

If the pump is run with an inadequate water supply, the pump will cavitate. Cavitation causes the pump to operate loudly and vibrate and will cause damage to the pump.

**WARNING**

If required by local codes, a back flow preventer should be installed at the supply end of the hose.

11. Check to be certain that all the control switches on the unit are in the **off** position and all hand operated valves are in the closed or off position.

If the unit is electrically powered, connect the unit to the correct electrical supply. Test Ground Fault Circuit Interrupter. Follow the instruction on the back of the device or see GROUND FAULT CIRCUIT INTERRUPTER.

The electrical specifications of the machine are located on the machine chassis.

Connect unit to a dedicated circuit of the proper voltage, proper rated circuit breaker, and wired with the proper wire size and number of conductors.

Never modify, bend, or cut the electrical plug. Improper connection could result, causing damage, injury, or death of the equipment operator. If the plug must be replaced, use only one with the appropriate NEMA configuration for the current requirements of the unit.

This machine must be connected to a UL Listed Ground-Fault Circuit Interrupter (GFCI) in accordance with the National Electric Code (NEC) Article 422-4 - Ed-31, Except as provided for in NEC 90-4.

Do not modify or disconnect the electrical ground sensing circuit if connected. This unit is essential to help protect the operator from electrical shock.

This unit must be properly grounded to avoid fatal electrical shock in the event of an electrical malfunction. A ground connector screw should be fastened into the chassis to facilitate supplemental grounding as permitted by NEC 250-91.

Do not connect any other equipment to the electrical circuit serving this unit.

Do not replace a fuse or circuit breaker with one of a higher rating without being certain the wire size is adequate to handle the increased electrical load.

Keep all electrical connections dry and off of the ground. Do not touch plug with wet hands.
Assembly & Initial Start-up Procedure

Observe all local and national codes for the installation of this type of equipment.

If an extension cord is required, please use the following criteria for extension cord selection.

• 0 to 25 Feet - At least the same size wire.
• 25 to 50 Feet - At least one wire size larger.
• 50 to 75 Feet - At least two wire sizes larger.

If an extension cord of too small a wire size is used, the voltage drop will be high, and this will cause the motor to draw excessive current and overheat.

If there are any questions or problems with the electrical system being used, please do not hesitate in calling a local qualified electrician.


13. Turn on the inlet water supply to fully open.

The inlet water supply should not exceed 60 PSI.

Do not use with water above 140 degrees F. This unit is designed to operate with cool water or warm water. Water above 140 degrees F can cause burns and can cause damage to the internal pump. If using warm input water, a thermal pump protector must be used.

14. With the unit off, remove the pressure wash tip and assembly from the end of the cleaning gun.

15. Bleed air from the system by triggering gun. Pressure from the water supply should prime the pump in a few seconds. When the pump is primed water will run out the gun and wand assembly.

16. If the unit is electrically powered, turn on the motor switch. If the unit is gasoline powered, start the gasoline engine (See engine manufacturer's instructions).

Do not operate with protective covers or guards removed.

Do not operate with any electrical panels or covers opened.
Assembly & Initial Start-up Procedure

Do not operate with any of the safety controls bypassed.

DANGER  Do not permit untrained personnel to operate this unit.

Never modify or alter this unit.

17. Holding the gun securely with both hands, unlock the trigger safety lock, and press the trigger on the gun to allow the water to flow. Let the pump run for 1-2 minutes after water starts flowing from the end of the gun to purge the system or any foreign matter. Check the machine, hose, and cleaning gun assembly for leaks.

   If any leaks become apparent, disassemble the leaking parts and securely reseal the connection with pipe dope or teflon tape. Recheck the system for any other leaks.

NOTICE  Do not spray people, animals, or any living thing.

Do not spray energized electrical equipment.

18. Turn the motor or gasoline engine off, then release the gun handle.

19. With the unit off, install the desired tip into the end of the gun.

   If any leaks became apparent, disassemble the leaking parts and securely reseal the connection with pipe dope or teflon tape. Recheck the system for any other leaks.
Start-up Procedure

1. Inspect the machine. It should be in good operating condition.

If the machine does not appear to be in good operating condition, please contact a qualified repair or service person at once.

2. Inspect the cleaning gun, hoses, belts, clamps, and fittings. The hoses and belts should be free from cuts, abrasions, and any other kind of damage. The clamps and fittings should be tight and in good physical condition.

If the hoses, belts, clamps, and fittings do not appear to be in good operating condition, please contact a qualified repair or service person at once.

⚠️ Do not operate this unit with damaged or worn hose, fittings, clamps, or spuds.

3. Locate the cleaning machine in a safe work area.

Place the cleaning machine as close to the work area as is possible safely. Leave approximately 3 feet clearance around the unit for work space.

If the machine is to be used in an enclosed area, make certain that there is proper ventilation for the exhaust gasses and/or water vapors. See VENTILATION REQUIREMENTS

⚠️ Do not place the unit where it will be exposed to cold air or freezing temperatures. This may cause the unit to freeze which will result in severe damage to the entire water system.

⚠️ Do not place the unit in such a manner where it may come into contact with its own spray. Electrical shock may result.

⚠️ Do not locate near flammable or combustible liquids or operate in flammable or combustible atmosphere. A fire or explosion may result.

4. If the high pressure hose has been disconnected, reconnect the hose to the cleaning unit.

Tighten all connections securely. Use pipe dope or teflon tape to help seal the connections that require the use of a wrench.

If the machine is supplied with a quick connector, attach the hose to the machine. Check the connector for a good sealed connection to make certain the hose does not blow off. See QUICK CONNECTOR
Start-up Procedure

Do not use a quick connector where the cleaning gun meets the hose. Risk of injection.

Do not use quick connectors on machines that produce steam. Steam temperatures reach up to 325 degrees F.

5 a. If the unit is equipped with a triplex ceramic piston pump, ensure that the oil level inside the pump is filled up to the center of the red dot on the oil sight gauge. If needed, add the correct amount of oil. See ADDING OIL -- TRIPLEX PUMP.

5 b. If the unit is gasoline engine driven, fill the gasoline tank with clean gasoline. Check the level of oil in the gasoline engine. If needed, add the needed amount of oil. If the unit has an electric start gasoline engine, install the correct battery type and size (Batteries are not included with units). See ENGINE MANUFACTURER'S INSTRUCTIONS

Use only good clean Gasoline free from water and other contaminates.

Do not fill the engine's gas tank with gasoline while the machine is in operation or hot. Turn off the motor and allow the engine to cool down. If spillage occurs, allow enough time for the fumes to dissipate.

Gasoline is extremely flammable and its vapors can explode if ignited. Store gasoline only in approved containers, in well-ventilated, unoccupied buildings, away from sparks or flames.

Do not start the engine near spilled fuel; wipe up spills immediately. Never use gasoline as a cleaning agent.

Do not fill the fuel tank to the point of over flowing. Allow approximately 1-1/4" of tank space for expansion.

Shut off fuel valve on engine before transporting unit to prevent fuel leaking from carburetor.

Do not touch the exhaust system, cylinder head or crankcase when hot.

The crankcase, cylinder head, exhaust system, and other components can get extremely hot from operation. To prevent severe burns, do not touch these areas while the engine is running - or immediately after it is turned off. Never operate the engine with heat shields or guards removed.

Do not inhale engine exhaust gases.
Engine exhaust gases contain poisonous carbon monoxide. Carbon monoxide is odorless, colorless, and can cause death if inhaled. Avoid inhaling exhaust fumes, and never run the engine in a closed building or confined area without adequate ventilation.

6. Check the amount of solution in the solution tank or solution container, and fill the solution tank or solution container if necessary. Mix Jenny cleaning compound as instructed on the label and fill the solution tank or separate container. See CLEANING COMPOUNDS AND MIXING.

If the unit requires a separate solution container, insert the siphon strainer located near the front panel of the unit into the solution container.

Do not use this unit to spray flammable or combustible chemicals.

Use only cleaning compounds that are compatible with steam cleaners or high pressure washers. The use of incompatible soaps may cause the machine to become clogged up and malfunction or reduce the life of the pump and machine.

Some chemicals used for cleaning are dangerous.

7. Connect the machine to an adequate cold water supply ensuring that the inlet water strainer is clean and free from debris.

A good rule of thumb to determine if the water supply is adequate, is that the free flowing water (straight out of the hose without restrictions) should be at least 1.50 times the gallons per minute output of the machine. See SPECIFICATION SECTION for the exact gallonage of the machine.

If the water is being supplied by a well, make certain that the well produces enough water to keep up to the cleaning machine. This may have to be checked over a period of several hours.

Use at least a 5/8 inch inside diameter water supply hose for any length of hose under 50 feet and 3/4 inch inside diameter for any length of hose over 50 feet.

If the pump is run with an inadequate water supply, the pump will cavitate. Cavitation causes the pump to operate loudly and vibrate and will cause damage to the pump.

If required by local codes, a back flow preventer should be installed at the supply end of the hose.
8. Check to be certain that all the control switches on the unit are in the **off** position and all hand operated valves are in the **closed** or **off** position. If the unit is electrically powered, connect the unit to the correct electrical supply. If so equipped, test the Ground Fault Circuit Interrupter. Follow the instruction on the back of the device or see GROUND FAULT CIRCUIT INTERRUPTER.

The electrical specifications of the machine are located on the machine chassis.

Connect unit to a dedicated circuit of the proper voltage, proper rated circuit breaker, and wired with the proper wire size and number of conductors.

Never modify, bend, or cut the electrical plug. Improper connection could result, causing damage, injury, or death of the equipment operator. If the plug must be replaced, use only one with the appropriate NEMA configuration for the current requirements of the unit.

This machine must be connected to a UL Listed Ground-Fault Circuit Interrupter (GFCI) in accordance with the National Electric Code (NEC) Article 422-4 - Ed-31, Except as provided for in NEC 90-4.

Do not modify or disconnect the electrical ground sensing circuit if connected. This unit is essential to help protect the operator from electrical shock.

This machine must be properly grounded to avoid fatal electrical shock in the event of an electrical malfunction. A ground connector screw should be fastened into the chassis to facilitate supplemental grounding as permitted by NEC 250-91.

Do not connect any other equipment to the electrical circuit serving this unit.

Do not replace a fuse or circuit breaker with one of a higher rating without being certain the wire size is adequate to handle the increased electrical load.

Keep all electrical connections dry and off of the ground.

Do not touch plug with wet hands.

Observe all local and national codes for the installation of this type of equipment.

If an extension cord is required, please use the following criteria for extension cord selection.

- 0 to 25 Feet - At least the same size wire.
- 25 to 50 Feet - At least one wire size larger.
Start-up Procedure

- 50 to 75 Feet - At least two wire sizes larger.

If an extension cord of too small a wire size is used, the voltage drop will be high, and this will cause the motor to draw excessive current and overheat.

**CAUTION**

*If there are any questions or problems with the electrical system being used please, do not hesitate in calling a local qualified electrician.*


10. Turn on the inlet water supply to fully open.

The inlet water supply should not exceed 60 PSI and must be cold water.

**NOTICE**

*Do not use with water above 140 degrees F.* This unit is designed to operate with cool or warm water. Water above 140 degrees F can cause burns and can cause damage to the internal pump. If using warm input water, a thermal pump protector must be used.

11. With the unit off, remove the pressure wash tip and assembly from the end of the cleaning gun.

12. Inspect the pressure wash tip or steam nozzle and orifice assembly to ensure that it is free from dirt and debris.

If the pressure wash tip or steam nozzle and orifice assembly appears clogged, blocked, or dirty, immediately remove the tip and clean or replace. If it cannot be cleaned, replace the tip with a tip with the same orifice size.

13. Bleed air from the system by triggering gun. Pressure from the water supply should prime the pump in a few seconds. When the pump is primed, water will run out of the gun and wand assembly.

13. If the unit is electrically powered, turn on the motor switch. If the unit is gasoline powered, start the gasoline engine (See engine manufacturer's instructions).

**WARNING**

*Do not operate with protective covers or guards removed.*

**NOTICE**

*Do not operate with any electrical panels or covers opened.*
Start-up Procedure

Do not operate with any of the safety controls bypassed.

**DANGER** Do not permit untrained personnel to operate this unit.

Never modify or alter this unit.

14. Holding the gun securely with both hands, unlock the trigger safety lock, and press the trigger on the gun to allow the water to flow. Let the pump run for 1-2 minutes after water starts flowing from the end of the gun to purge the system or any foreign matter. Check the machine, hose, and cleaning gun assembly for leaks.

If any leaks become apparent, stop the machine and disconnect it from any power source, disassemble the leaking parts and securely reseal the connection with pipe dope or teflon tape. Recheck the system for any other leaks.

**NOTICE** Do not spray people, animals, or any living thing.

Do not spray energized electrical equipment.

15. Turn the motor or gasoline engine off, then release the gun handle.

16. With the unit off, install the desired tip into the end of the gun.

If any leaks became apparent, disassemble the leaking parts and securely reseal the connection with pipe dope or teflon tape. Recheck the system for any other leaks.
Shutdown Procedure

1. Flush chemical injector with clean water. With the solution valve or injector knob fully open draw clean water through the solution system or injector for one minute.

Due to the corrosive nature of some compounds, do not allow solution to remain in the water system. It will take several minutes of water flowing through the system for the system to be purged of the cleaning solution.

Some chemicals used for cleaning are dangerous.

2. If the unit is powered electrically, turn off the motor. If the unit is gasoline engine powered, first idle the unit down and allow to run a few minutes, then turn off the engine.

Open the trigger gun to relieve the system pressure and lock the trigger gun safety lock. See GUN TRIGGER SAFETY LOCK.

Do not spray people, animals, or any living thing.

Do not spray energized electrical equipment.

CAUTION Do not leave pressure in unit unattended. Shut unit off and release pressure before leaving unit. This will prevent sudden unexpected release of pressure.

3. If the machine is electrically driven, disconnect the unit from all electrical power. If the machine is gasoline engine driven, turn the fuel valve to the off position.

If an extension cord was used, disconnect the extension cord from the electrical outlet and coil up the cord.

Do not touch plug with wet hands.

4. Remove the spray tip from the end of the cleaning gun. Inspect the spray tip to ensure that it is free from dirt and debris.

If the pressure wash tip or steam nozzle and orifice assembly appears clogged, blocked, or dirty, immediately remove the tip and clean or replace. If it can not be cleaned, replace the tip with a tip with the same orifice size.
5. Turn off the water supply, and disconnect the garden hose from the cleaning machine.

6. Disconnect the pressure wash hose from the machine and drain completely. Coil the hose and store in a protected area. See QUICK CONNECTOR.

7. Properly store and/or dispose of the unused cleaning compound.

8. If appropriate, protect the unit from freezing. See the FREEZE PROTECTION.

   *Do not store the Washer in unheated areas during cold weather. Severe damage may occur if water freezes in the Washer. If near or below freezing conditions cannot be avoided, the Washer must be protected from freezing.*

9. Inspect the machine. It should be in good operating condition.

   If the machine does not appear to be in good operating condition, please contact a qualified repair or service person at once.

   If the hoses, belts, clamps, and fittings do not appear to be in good operating condition, please contact a qualified repair or service person at once.

10. Place the machine in a protected area.
Operation

Ground Fault Circuit Interrupter

If the Jenny cleaning unit is a single phase unit, it will be equipped with a Ground Fault Circuit Interrupter. To ensure against electrical shock, test the device before each use. When the test button is pushed in, the indicator light should go off. Reactivate the device by pushing the reset button in. If the indicator light goes on, the device is ready for use.

Do not use the washer if the indicator light does not go on when reset or if the indicator light remains on when the test button is pushed in. This device does not guard against shock resulting from defects or faults in any wiring supplying power to the device, or from contact with both circuit conductors.

Gun Trigger Safety Lock

The gun is equipped with a trigger safety lock to prevent accidental spraying.

To lock the gun trigger unfold the lever on the back of the trigger.

Always lock the trigger when not spraying.

Pop Off Valve

The pop off valve is a safety relief valve that will relieve system pressure when an over pressure condition occurs by "popping off." The valve is set at the factory during the testing of the machine for the correct relief pressure. If the valve pops off, then it is warning of a potential problem in the pressure side of the water system which needs to be corrected.

The valve can be adjusted by using an allen wrench. To increase the pressure where the valve pops off, turn the wrench clockwise, and to lower the setting, turn the wrench counter clockwise.

Quick Connector

To couple the quick connector, pull back the sleeve on the hose end and push hose end on to the outlet fitting. Release the sleeve and make sure it is fully forward. Check to see if the coupling is secure.

If the coupling is not secure, it may blow apart when the cleaning machine is started.

Never decouple the quick coupler when the machine is running.
Always release the pressure in the system before decoupling.

Do not use a quick connector where the cleaning gun meets the hose. Risk of injection.

To decouple, turn the burner off and allow cold water to flow out the end of the gun for several minutes to cool the machine down. Turn the machine off or stop the gasoline engine, then pull the trigger on the gun to release the pressure in the system. Pull back the sleeve on the hose end and pull hose end off the outlet fitting.

**Hard Water**

Hard water can cause the build up of deposits within the water system of the Jenny unit to happen very quickly. This will require frequent deliming of the water system and will eventually cause the destruction of the unit. Although the frequency of deliming that must be done to the unit is directly proportional to the amount of use the unit receives, if you feel that the deposit build up occurs too quickly, have the water supply checked. If the water supply exceeds 8 grains of hardness, then a water softener should be installed. This will lengthen the life of the Jenny cleaning unit and maintain the machines overall efficiency.

**Chemical Injection**

To use the injector, insert the siphon hose end with the strainer into the bottom of the solution container and slip the other end of the hose over the hose barb on the chemical injector. Open the injector by turning the adjustment collar counter clockwise. With the Soap Tip (Black) installed into the eVari-Nozzle in the low pressure position chemical will begin to flow. When the chemical appears at the nozzle, adjust the chemical to the desired rate. Reduce the chemical flow by rotating the injector collar clockwise to the desired rate. Stop chemical flow by replacing the black soap tip with a high pressure tip (Red, White, Yellow, or Green).

**Freeze Protection**

The water and solution system of your Jenny cleaning machine are both susceptible to freezing. As water freezes, the forming ice crystals expand. When this expansion occurs, the ice produces an incredible amount of force that is capable of ruining pumps, high pressure fittings, hydraulic hoses, valves, coils, and any other parts in the water or solution system of the machine.
For this reason, it is strongly recommended that the following steps be taken anytime the unit is going to be stored for any prolonged length of time or exposed to below freezing temperatures.

**Anti-Freeze Safety Warnings**

Anti-freeze is a chemical that inhibits water from freezing, overheating, and provides protection from rust and corrosion. Follow the instructions on the chemical container or accompanying Material Safety Data Sheet (MSDS Sheet).

- Wear proper protective equipment (eye protection or full face protection and gloves) while using Anti-Freeze.

- Proper safety precautions must be taken when handling, storing, and using Anti-Freeze.

- Keep all chemicals out of the reach of children.

- Always have a clean supply of water available to wash off any chemicals that have come in contact with the skin and/or eyes.

- If any contact occurs with the eyes, immediately flood the eyes with clean water for at least 15 minutes and seek medical attention at once.

- If contact occurs with the skin, flood the affected area for 15 minutes with clean water. If irritation persists, seek immediate medical attention.

- If chemicals are swallowed, follow the product label directions and seek immediate medical attention.

*For Treatment instructions, have your physician contact the nearest regional poison information center for more information.*

- Always read and understand the Material Safety Data Sheet (MSDS) on all chemicals before using them.

**Freeze Protection Instructions**

Follow all the steps for normal shut-down and storage.

Flush the Washer system with a 50% antifreeze and 50% water solution using one of two methods:
Method One: Tip the Washer back so that it is resting on its wheels and/or handle bar and the water inlet is pointing upward. Remove the filter screen from the inlet fitting and pour in approximately 1/2 cup of antifreeze and water mixture. Turn on the Washer while pouring the solution in, allowing the antifreeze to circulate.

Method Two: Attach a short garden hose to the water inlet fitting and put the other end in the antifreeze solution. Turn the Washer on until the solution comes out the discharge fitting.

Adding Oil

Oil can be added to the high pressure triplex ceramic plunger pump by removing the red oil plug/dipstick (marked oil) located on the top of the pump crankcase. The red oil plug/dipstick has two lines on it that give the high and low limits of the oil level that must be maintained within the crankcase to keep the pump properly lubricated. If oil must be added, please add the oil slowly and frequently check the level using the oil plug/dipstick. Use only Special Jenny Synthetic Oil.

Changing Pump Oil

The oil can be changed by first using a suction gun to remove the old oil from the pump crankcase, or by removing the lower oil plug located on the lower back crankcase cover. Care should be taken to ensure that the oil is not allowed to spill all over the Jenny unit. Once the oil has been drained, then follow the steps for adding oil to the high pressure triplex ceramic plunger pump. Please follow the maintenance instructions for service intervals.

Adding and Changing Engine Oil

Please follow the engine manufacturer’s guidelines and instructions for adding and changing the oil. Only use the type and weight recommended by the manufacturer. Please follow the maintenance instructions for service intervals.
Cleaning Compounds and Mixing

Your units cleaning ability is based not only on its performance specifications-pressure, volume and temperature, but also on the selection and proper use of cleaning compounds.

Even the best cleaning compound applied in too strong or too weak a concentration will be ineffective, and may even damage the item being cleaned. The wrong type of cleaning compound can damage the unit.

Normally, cleaning compounds are diluted when placed into the solution container, and are further diluted when mixed with the water flowing through the unit.

Never use flammable cleaning solvents or compounds in this unit. Fire or explosion causing injury or death may result.

Do not spray toxic chemicals. Risk of inhalation or contact with skin which may result in injury or death.

Compound dilution rates are often given by manufacturers in terms of ratios. A typical recommendation for Jenny APL or HDL cleaning compounds is 1:125; 1 part compound for every 125 parts of water out of the cleaning gun.

For example, the CPW 1020 has a maximum solution feed rate of 74 oz. per minute and a total output of 2.0 GPM (256 oz. per minute). By using this information and the cleaning compounds manufacturer's recommendations, it is possible to calculate the appropriate compound dilution.

To simplify mixing, use the following formula to determine water to compound dilution when compound recommends a 1:125 dilution ratio:

\[
(GPM \text{ machine}) \times (\text{Dilution Ratio}) \times (\text{128oz/gal}) \times (\text{128oz/gal}) = \text{Oz Added to 1 gal. of water}
\]

\[
\left( \frac{\text{Solution Feed Rate oz./min.}}{74 \text{ Oz./Min}} \right) \times (2.0 \text{GPM}) \times (1/125) \times (128) \times (128)
\]

\[
= \text{Oz}
\]

Therefore, the soap container or tank will have 4 oz. of soap mixed with every gallon of water put into the container.

Use these compound dilutions as a starting dilution for your application.

Use only Cleaning Compounds that are compatible with high pressure washers. Using a laundry-type soap may clog the injector.
**Cleaning Compounds and Mixing**

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**ADDITIONAL INFORMATION**

- Indoor Use: ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔
- Outdoor Use: ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔
- USDA Accepted For Use In Meat & Poultry Process: ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔
- Water Softener Added To Compound: ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔
- Available In 5, 55 Gallons: ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔
- Available In 40 Containers: ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔ ✔

Key: ★ Best Compound for this Application  ■ Good Performance  ● Acceptable Cleaning  ✗ Not Recommended  ✔ Application
Maintenance

These items should be checked **daily** before operation of unit begins:

1. Water supply, water supply hose, and connections.
2. Solution supply container for adequate supply.
3. Water pump oil level.

**NOTE:** Water pump oil change should be made after the first 50 hrs, then at regular intervals of every 100 hrs under normal operating conditions. The number of operating hours allowed between oil changes will be affected by conditions such as high ambient temperature, high humidity, and severity of use. You must change the oil more frequently under these conditions. **Never** operate this unit on an incline over 15 degrees maximum to ensure optimum lubrication to the water pump.

When the water pump requires oil to be added, use only Special Jenny Synthetic oil and fill until the level is between the two lines on the dipstick or the center of the oil sight glass. (Do Not overfill)

4. Pressure tip for wear or obstruction.
5. Hose damage or hose being kinked.
6. Electrical supply and connections, if applicable.
7. Reset on the GFIC drop cord, if applicable.
8. Look for any other obvious problems.

These items should be checked **weekly**:

1. Inlet hose washer strainer for contaminants.
2. GFCI drop cord for any damage, if applicable.
3. Hose wear or damage.
4. Gun handle damage or leaking.

These items should be checked **monthly**:

1. Water leaks from any fittings or hoses.
2. Tire pressure for correct inflation, if applicable.
3. Overall condition of unit.

These items should be checked **yearly**:

1. Replace fuel filter, empty and clean out the fuel tank(s), if applicable.

**NOTE:** Fuel filter must be replaced more frequent if the unit is used excessively, also if water is found in the fuel tank replace the fuel filter at once. Water will not allow fuel to pass through the filter element.
2. If required at the time, change the oil in the water pump and gasoline engine.

NOTE: Also refer to the note under item 4 in daily checks.

3. Solution container and solution system should be cleaned out to insure a proper working system.

4. Replace all worn or damaged hose with new original equipment.

5. Check and replace drain relief valve if needed.

8. A new pressure tip should be installed depending on usage, heavy usage may require you to change the pressure tip more frequently.
Routine Maintenance can normally be accomplished by most Jenny owners. After consulting with the Troubleshooting section of this manual, and your unit needs service or the repair that seems to be beyond your capability, contact the distributor from whom you purchased the unit.

If your distributor is unable to assist you or supply repair parts needed, refer to the manufacturers representative listing in the back of this manual. Your manufacturers representative will be able to provide technical assistance and parts ordering information.

If your unit does not operate properly you should determine the following information prior to calling for help.

The units model number, serial number and date of purchase located on the chassis.

The water output (volume) of the unit. Run discharge into a bucket with the pressure tip removed. Measure the volume of water in five minutes, divide by five to determine the actual GPM output.

The size of the pressure tip installed in the unit. The number is stamped on the tip.

Please reference the Trouble Shooting section of this manual.

This information will assist in isolating problems with your unit.

<table>
<thead>
<tr>
<th>OWNER'S RECORD</th>
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<tbody>
<tr>
<td>JENNY MODEL NO. _______________ SERIAL NO. _______________</td>
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<tr>
<td>PURCHASED FROM:</td>
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<tr>
<td>NAME ________________________________</td>
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<td>ADDRESS ________________________________</td>
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<tr>
<td>CITY ___________________________ STATE ______ ZIP ________</td>
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<td>DATE OF PURCHASE ________________________________</td>
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<tr>
<td>Symptom</td>
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<td>The Pressure and/or the Delivery Drops</td>
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<td>Water in Crankcase</td>
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<tr>
<td>Noisy Operation</td>
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<tr>
<td>Rough/Pulsating Operation with Pressure Drop</td>
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<tr>
<td>Pump Pressure as Rated, Pressure Drop at Gun</td>
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<tr>
<td>Excessive Leakage</td>
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<td>High Crankcase Temperature</td>
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<td>Symptom</td>
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<td>Pressure Relief Valve Leaks</td>
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<td>Cleaning Spray Pressure Excessive</td>
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<td>Motor Overload Kicks Motor Off</td>
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<tr>
<td>Engine Not Operating Properly</td>
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