



Electric Pressure Washer – RX470

User Manual

[Revision 1.0 December 2018]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:



You **WILL** be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You **CAN** be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You **CAN** be INJURED if you do not follow instructions or equipment damage may occur.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- **Before Use** - If you are not familiar with the safe operation/handling of the equipment, or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

General Work Area Safety

- Work areas should be clean and well lit.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.

General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol or medication.
- This equipment is not intended for use by persons with reduced physical, sensory or mental capabilities.

General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start or run the engine until all leaks are fixed.

General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines OUTSIDE only, and far away from windows, doors and vents.

General Equipment Use and Care

- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.
- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.

General Electrical Safety	General Electrical Safety	General Service Information
- Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately. - Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment. - When wiring electrically powered equipment, follow all electrical and safety codes. - Wherever possible, use a residual current device (RCD). - High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.	- Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet. - Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord. - Do NOT use equipment that has exposed wiring, damaged switches, covers or guards. - Do NOT use electrical equipment in wet conditions or in damp locations. - Do NOT use electrical cords to lift, move or carry equipment. - Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards.	- The equipment must be serviced or repaired at authorised service centres by qualified personnel only. - Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained. - Do NOT attempt any maintenance or repair work not described in this manual. - After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before making adjustments, changing accessories or performing repair or maintenance. - Do NOT make adjustments while the equipment is running. - Perform service related activities in suitable conditions, such as a workshop. - Replace worn, damaged or missing warning/safety labels immediately.

Other Safety Information

Automatic ON/OFF: The motor on this pressure washer does not run continuously. It only runs when the trigger of the spray gun is squeezed. After following the startup procedures in this manual, turn the pressure washer ON and squeeze the trigger for activation. See "Operating Instruction" section in this manual for further details.

WARNING! The electrical supply connection shall be made by a qualified person and comply with IEC 60364-1. The electric supply to this machine should include either a residual current device that will interrupt the supply if the leakage current to earth exceeds 30mA for 30ms or a device that will prove the earth circuit.

WARNING! The motor of this pressure washer will NOT run unless the trigger is squeezed.

WARNING! When the machine is used, following precautions should always be considered:

- Read all instructions before using the machine.
- To reduce the risk of injury, close supervision is necessary when a machine is used near children.
- ALWAYS disconnect power before disassembling or repairing the unit of the machine.
- Follow all safety codes as well as local health ordinances.
- Ensure safety devices are operating properly before using the machine. DO NOT remove or modify any part of the gun or unit of the machine.
- Know how to stop this machine and bleed pressure quickly. Be thoroughly familiar with the controls.
- Stay alert – watch what you are doing.
- Do not operate the machine when fatigued or under the influence of alcohol or drugs.
- Keep operation area clear of all persons.
- Do not overreach or stand on unstable support. Always keep good footing and balance.
- Follow the maintenance instructions specified in this manual.
- Use cleaning agent supplied or recommend by the manufacturer.
- Only put the machine on stable places when using, transportation, assembly, dismantling. Do not handle the machine roughly when transporting it.
- In an event of an accident (e.g. contact with detergents, rinse with an abundance of clean water), please always switch off the machine and pull out the plug from the socket outlet and disconnect the connection with water.
- The machine is not intended to be connected to the potable water mains. If necessary, please use only approved inlet hose-set.
- Risk of injection or severe injury. Keep clear of nozzle. Do not discharge streams at persons. This machine is to be used only by trained operators. Always remove lance from gun before cleaning debris from tip.**
- Keep clear of nozzle. NEVER direct high-pressure spray at any person, animal or self.
- Always wear safety glasses or goggles and protective clothing when operating or performing maintenance.
- Never put hand or fingers over the spray tip while operating the unit.
- Never try to stop or deflect leaks with any body part.
- Always engage the trigger safety latch in the safe position even when spraying is stopped for a moment.
- Always follow detergent manufacturer's label recommendations for proper use of detergents. Always protect eyes, skin, and respiratory system from detergent use.

WARNING! SERVICING OF A DOUBLE-INSULATED MACHINE. In a double-insulated machine, two systems of insulation are provided instead of grounding. No grounding means are provided for a double-insulated machine, nor should grounding means be added to the machine. Servicing a double-insulated machine requires extreme care and knowledge of the system and should be done only by qualified service personnel. Replacement parts for a double-insulated machine must be identical to the original parts. A double-insulated machine is marked with the words "Double Insulation" or "Double Insulated."

WARNING! Do not use pressure that exceeds the operating pressure of any of the parts (hoses, fittings, etc.) in the pressurized system. Ensure all equipment and accessories are rated to withstand the maximum working pressure of the unit.

WARNING! Explosion hazard. Never spray flammable liquids or use pressure washer in areas containing combustible dust, liquids or vapours. Never operate the machine in a closed building or in or near an explosive environment.

WARNING! Do not spray electrical apparatus and wiring.

- Never disconnect the high pressure discharge hose from the machine while the system is pressurized. To depressurize machine, turn power and water supply off, then press gun trigger 2-3 times.
- Never permanently engage the trigger mechanism on the gun.
- Never operate the machine without all components properly connected to the machine (handle, gun/wand assembly, nozzle, etc.).

WARNING! Equipment damage.

- ALWAYS turn water supply "ON" before turning pressure washer "ON." Running pump dry causes serious damage.
- Do not operate the pressure washer with the inlet water screen removed. Keep screen clear of debris and sediment.
- NEVER operate pressure washer with broken or missing parts. Check equipment regularly and repair or replace worn or damaged parts immediately.
- Use only the nozzle supplied with this machine.
- Never leave the wand unattended while the machine is running.
- Never attempt to alter factory settings. Altering factory settings could damage the unit and will void the warranty.
- Always hold gun and wand firmly when starting and operating the machine.
- NEVER allow the unit to run with the trigger released (off) for more than one (1) minute. Resulting heat buildup will damage pump.
- Pressure washer is not supposed to pump hot water. NEVER connect it to a hot water supply as it will significantly reduce the life of the pump.
- NEVER store the pressure washer outdoors or where it could freeze. The pump will be seriously damaged.
- Release trigger when changing from high to low pressure modes. Failure to do so could result in damage.
- Be aware of the recoil caused by the water jet when the machine is switched on.

CAUTION: Keep hose away from sharp objects. Bursting hoses may cause injury. Examine hose regularly and replace it if damaged. Do not attempt to mend a damaged hose.

EXTENSION CORDS

The use of an extension cord is not recommended. Use only extension cords intended for outdoor use. These are identified by the mark "Acceptable for use with outdoor machines; store indoors while not in use." Use only extension cords having an electrical rating equal to or more than the rating of the machine. Do not use damaged extension cords. Examine extension cord before using and replace it if damaged. Do not abuse extension cord. Do not pull on the cord to disconnect. Keep cord away from heat and sharp edges. Always disconnect cord from receptacle before disconnecting machine from extension cord.

DANGER! Failure to follow these instructions can result in serious injury, including death.

WARNING!

- To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch plug with wet hands. Machines shall not be used by children. Children should be supervised to ensure that they do not play with the machine. This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.
- This machine has been designed for use with the cleaning agent supplied or recommended by the manufacturer. The use of other cleaning agents or chemicals may adversely affect the safety of the machine.
- High pressure jets can be dangerous if subject to misuse. The jet must not be directed at persons, live electrical equipment or the machine itself.
- Recommend the operator to wear ear protectors.
- Do not use the machine within range of persons unless they wear protective clothing.
- Do not direct the jet against yourself or others in order to clean clothes or foot-wear.
- Risk of explosion-Do not spray flammable liquids.
- High pressure cleaners shall not be used by children or untrained personnel.
- High pressure hoses, fittings and couplings are important for the safety of the machine. Use only hoses, fittings and couplings recommended by the manufacturer.
- To ensure machine safety, use only original spare parts from the manufacturer or approved by the manufacturer.
- Water that has flown through backflow preventers is considered to be non-potable.
- The machine shall be disconnected from its power source by removing the plug from the socket-outlet during cleaning or maintenance and when replacing the machine to another function.
- Do not use the machine if a supply cord or important parts of the machine are damaged, e.g. safety devices, high pressure hoses, trigger gun.
- If an extension cord is used, the plug and socket must be of watertight construction.

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- Inadequate extension cords can be dangerous. If an extension cord is used, it shall be suitable for outdoor use, and the connection has to be kept dry and off the ground. It is recommended that this is accomplished by means of a cord reel which keeps the socket at least 60mm above the ground.
- In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.
- The machine is intended to be used at a temperature above 0 degree. (Only for machine with power cord of H05VV-F).
- To ensure the machine safety, please only use original spare parts (including nozzle) from the manufacturer or approved by the manufacturer. Do not use the machine before you changed them if they are damaged.
- Be care of the danger of the kickback force on the spray assembly when opening the trigger gun and grasp the gun with hands firmly.
- When the machine is moving and installing, the machine must be in flat. When moving the machine, pulling the handle to move it.
- Connect to the water supply. The machines are not suitable for connection to potable water mains. Connect the machine to the water supply. (It can be a water container). Make sure the inlet water pressure keeps between 0.01MPa and 0.4MPa. The inlet pipe should at least 5 M long. Do not use the pipe if the pipe is damaged. If you want to connect this machine to portable water mains, you must install a backflow preventer in the water pipe to prevent dirty water flow back to the drinking water system. The backflow preventer should comply with EN 60335-2-79 ANNEX AA.
- Disconnect from the electrical power supply before carrying out user maintenance. If the mains cable is damaged it must be replaced by the manufacturer, or its service agent or similarly qualified person to avoid a hazard.

Service

Have your equipment serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the equipment is maintained. Do not attempt any maintenance or repair work not described in this instruction manual. Have all other work performed by an authorised service person. We recommend that you have servicing and repair work carried out exclusively by an authorised service person. Before proceeding to adjust or repair the equipment; be sure to stop the equipment and detach and power source or spark plug (if equipped).

Never attempt to make adjustments while the equipment is running.

Always make adjustments with the equipment resting on a flat, clear surface. Replace any worn, damaged or removed warning labels immediately. Portable washer safety

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

This product is not intended for pumping water in a home domestic application. Do not use it for corrosive, abrasive, explosive or dangerous liquids. Fluids other than water will damage the water pump and/or create a fire hazard. High pressure jets can be dangerous if subject to misuse. The jet must not be directed at persons, live electrical equipment or the appliance itself. Do not use the appliance within range of persons unless they wear protective clothing. Disconnect from the power supply before carrying out user maintenance. High pressure cleaners shall not be used by children or untrained personnel. To ensure appliance safety, use only original spare parts from the manufacturer or approved by the manufacturer. High pressure hoses, fittings and couplings are important for the safety of the appliance. Use only hoses, fittings and couplings recommended by the manufacturer.

Automatic ON/OFF

The motor on this pressure washer does not run continuously. It only runs when the trigger of the spray gun is squeezed. After following the start-up procedures in this manual, turn the pressure washer ON and squeeze the trigger for activation. See "Operating Instruction" section in this manual for further details. The electric supply to this machine should include either a residual current device that will interrupt the supply if the leakage current to earth exceeds 30 mA or a device that will prove the earth circuit.

Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc, replace them.

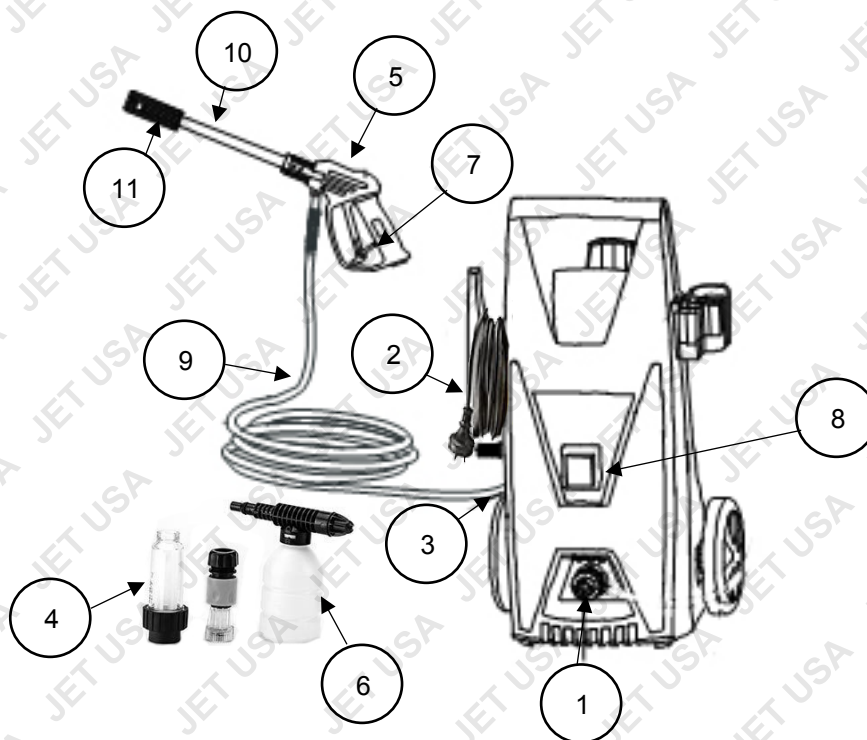
 Flammable Material Hazard Flammable liquids, gases or substances etc may be present. Avoid ignition sources and open flames. Danger of fire.	 Read User Manual Read and fully understand product safety warnings, operation, procedures etc before using the product.	 Use Hand Protection Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.	 Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.
 Electrocution / Electrical Shock Hazard High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.	 Toxic Fumes / Dust Hazard Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.	 Explosive Material Hazard Combustible liquids, gases or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.	 Cutting / Amputation Hazard The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.
 Crush Hazard The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.	 Single Operator Only The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.	 Use Face Protection Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.	 Use Foot Protection Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.
 Use Eye / Ear / Head Protection Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing and head hazards.	 Running Hazard Do not run on or near the product as doing so may present a fall hazard.	 Diving Hazard Do not dive into the product as doing so may present a neck / head injury hazard.	 Adult Supervision Required Always supervise children and other users of a product to prevent drowning or injury.
 Skin Penetration / Puncture Hazard The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.	 Hot Surface Hazard Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.	 Flying Debris Hazard Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.	 Moving Parts Hazard Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.

 Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.	 Pull Hazard Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.	 Slope / Fall Injury Hazard Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.	 "Slam Dunk" Warning Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.
 Electrocution / Electrical Shock Hazard - Outdoor High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp or wet conditions. Electrical shock can be fatal.	 Electrocution / Electrical Shock Hazard - Disconnect High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.	 Power Line Electrocution Hazard High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.	 "Kick-Back" Hazard High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.
 Winch Operator Position Hazard Do NOT stand between winch and load. Do NOT use winch to move people.	 Winch Lift Hazard Do NOT LIFT load vertically. Use machine to PULL only.	 Cable Hazard Ensure that load bearing cable is not kinked or knotted.	 Winch Cable Hazard Ensure that there is a minimum number of cable coils on winching mechanism.
 Winch Hook Hazard Carry hook to load – do NOT throw or run.	 Flash / Blinding Hazard Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.	 Laser Hazard Laser may be in use – do NOT look directly at laser, or allow others to.	

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Parts Identification



No.	Name	No.	Name
1	Water inlet connector	7	Trigger lock
2	340V electrical plug	8	Power ON / OFF switch
3	Water outlet	9	High-pressure hose
4	Inlet Filter	10	Spray lance
5	Trigger gun	11	Adjustable nozzle
6	Detergent attachment		

Assembly and Set-Up

Connecting the Handles



NOTE: Some models come with handles fully assembled.

1. Insert cable hook hold into the machine (figure 1a).
2. Align holes on the bottom of the pressure cleaner as shown and tighten the 2 screws using a screwdriver (figure 1b).

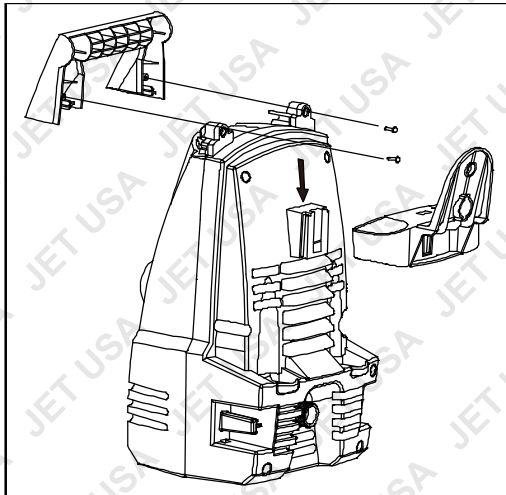


Figure 1a

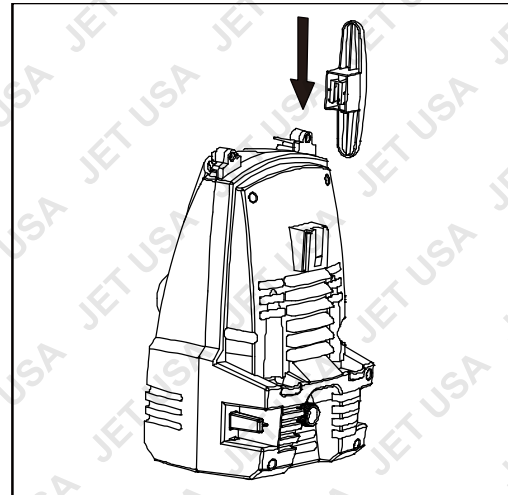
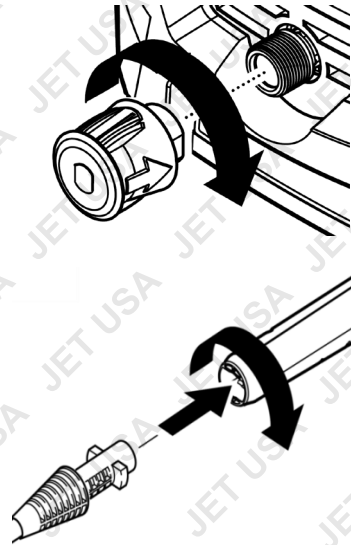


Figure 1b



Connecting the Hoses

Threaded connections are right hand thread; screw them on in a clockwise direction until firmly in place. Do not over tighten or the connector could be damaged.



Operation



WARNING! IMPORTANT! • This unit is to be connected to a cold-water source only. • The motor of your pressure washer will not run until the trigger is squeezed. • Always turn off the unit's motor before turning off the unit's water supply. Serious damage could occur to the motor if the unit is run without water. • Never disconnect the high-pressure discharge hose from the machine while the system is still pressurised. • To depressurise the unit, turn off the motor, turn off the water supply and squeeze the trigger 2-3 times.

Before Use

- Water Inlet "Screen/filter" located behind the "water inlet connector" must be inspected regularly, so as to avoid blockage and restriction in the water supply to the pump.
- Make sure all hoses and parts are fitted securely.

Start-Up

1. Connect the outlet hose to the washer and connect the spray gun to the outlet hose.
2. Connect nozzle and nozzle extension (if equipped).
3. Check wire mesh filter is clear of any blockage or debris.
4. Connect the water supply hose.
5. Check that the hose has no kinks in it.
6. Turn on water and check for leaks.
7. Depress trigger to allow air to be expelled through the pump and hoses, lock the trigger.
8. Plug in machine and turn power switch "ON".
9. Unlock trigger and use the pressure washer.

Shut-Down

1. Turn power switch "OFF".
2. Unplug the unit from the power source.
3. Turn off the water supply.
4. Press the trigger repeatedly of the gun to depressurise the system.
5. Disconnect the garden hose from the pressure washer.
6. Wipe all surfaces of the unit with a damp clean cloth.
7. Engage the gun safety lock.

Twist-Adjustable Nozzle

The angle of spray coming out of the lance may be adjusted by rotating the nozzle. This will vary the spray pattern from approximately a 0° narrow high impact stream to a 60° wide fan spray (Figure 2).

A narrow stream has high impact force on the cleaning surface and results in maximum deep cleaning in a concentrated area. However, this narrow high impact spray must be used cautiously, as it may damage some surfaces (Figure 3).

A wide fan pattern will distribute the impact of the water over a larger area, resulting in excellent cleaning action with a reduced risk of surface damage. Large surface areas can be cleaned more quickly using a wide fan pattern (Figure 4).

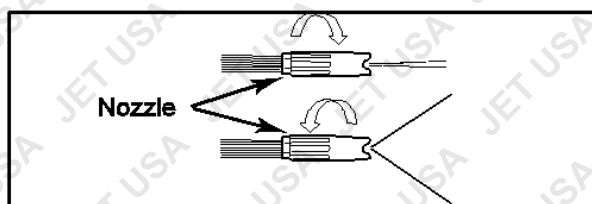


Figure 2: Adjusting nozzle for fan pattern (not applicable on some nozzle)

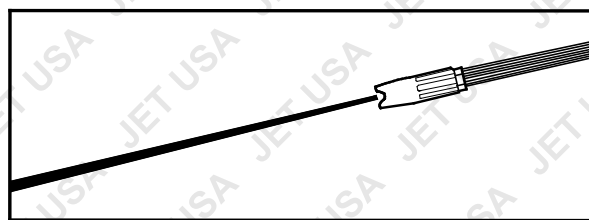


Figure 3: Narrow, high-impact stream

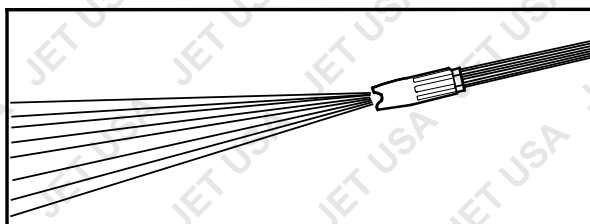


Figure 4: Wide fan pattern

Angle to the Cleaning Surface

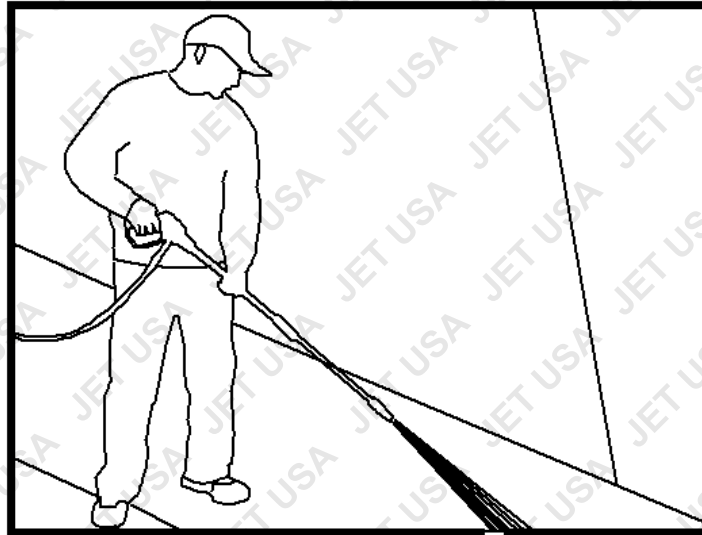
When spraying water against a surface, maximum impact is generated when the water strikes the surface “head on.” However, this type of impact tends to cause dirt particles to imbed in the surface, thereby preventing the desired cleaning action.

The optimum angle for spraying water against a cleaning surface is 45 degrees.

Spraying water against a surface at this angle provides for the most beneficial impact force combined with efficient removal of debris from the surface.

Distance from cleaning surface

Another factor that determines the impact force of the water is the distance from the spray nozzle to the cleaning surface. The impact force of the water is increased as the nozzle is moved closer to the surface.



Optimum angle to cleaning surface

How to Avoid Damaging Surfaces

Damage to cleaning surfaces occurs because the impact force of the water exceeds the durability of the surface. Never use a narrow high impact stream or a turbo/rotary nozzle on a surface that is susceptible to damage. Avoid spraying windows with a narrow high impact stream or turbo nozzle as this may cause breakage.

The recommended way to avoid damaging surfaces is as follows:

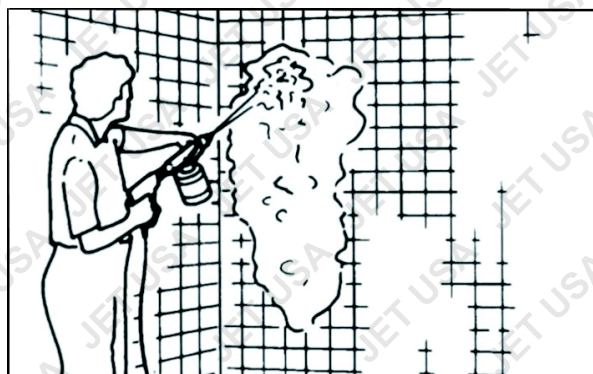
- Before triggering the gun, adjust the nozzle to a wide fan pattern.
- Place the nozzle approximately 4-5 feet from and 45° to the cleaning surface and trigger the gun.
- Vary the fan pattern spray angle and the distance to the cleaning surface until optimum cleaning efficiency is achieved without damaging the surface.

Detergent Application



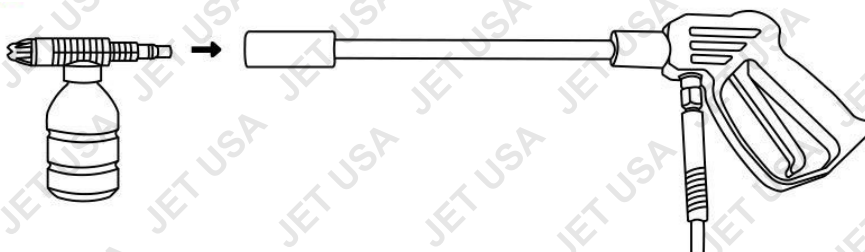
IMPORTANT! NOTE! • Only use the instructions appropriate for model purchased.
• Use only detergents formulated for pressure washes. • Test detergent in an inconspicuous area before use.

The correct concentrations of detergent to water ratio through the pressure washer is approximately 5.4% (1 part detergent to 19 parts water).



Detergent application

1. Unscrew to top of detergent applicator and fill applicator with detergent.
2. Replace top on applicator.
3. Remove lance from gun.
4. Attach detergent applicator to gun, if equipped (See below).



5. Apply detergent so it thoroughly covers cleaning surface. Apply from bottom to top to prevent detergent from sliding down and streaking.
6. Allow detergent to remain on the surface for a few minutes. This is a good time to use a brush to lightly scrub heavily soiled areas. Never allow detergent to dry on the cleaning surface.
7. Remove detergent applicator from gun and replace with the lance or remove applicator from end of lance.
8. Rinse detergent from surface.



NOTE! Flush detergent applicator with clear water following each use.

Initial High-Pressure Rinse

Spray the cleaning surface with water to clear off any dirt or grime that may have collected on the surface. This will allow your detergent to attack the deeply embedded dirt that has worked its way into the cleaning surface. Before triggering the gun, adjust the nozzle to a wide fan pattern and slowly adjust to the desired spray pattern. This will help you avoid applying too much concentrated spray to the surface which could cause damage.

Final Rinse

Start final rinse from the bottom of your item and work your way upward. Make sure you thoroughly rinse the surface and that all detergent has been removed.

1. Shut down
2. Be sure all detergent is flushed from system.
3. Turn off motor.
4. Turn off water supply.
5. After motor and water supply are turned off, trigger gun to depressurize system.



DANGER! • Never turn water supply off before turning motor off. Serious damage could occur to the pump and/ or motor. • Never disconnect high pressure discharge hose from machine while system is pressurized. To depressurize, turn motor off, turn water supply off and squeeze gun trigger times.

Maintenance

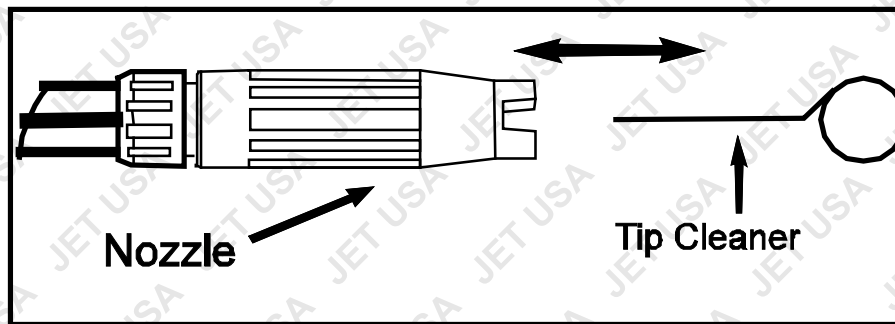
Cleaning the Nozzles



A clogged or partially clogged nozzle can cause a significant reduction of water coming out of the nozzle and cause the unit to pulsate while spraying.

To clean out the nozzle:

1. Turn off and unplug unit.
2. Turn off water supply. Relieve any pressure trapped in the hose by squeezing trigger 2-3 times.
3. Separate lance from gun.
4. Rotate nozzle to the narrow stream setting. This opens up the fan blades.
5. Using included tip cleaner, or an unfolded paper clip, insert wire into the nozzle hole and move back and forth until debris is dislodged. (See image)
6. Remove additional debris by back-flushing water through the nozzle. To do this, place end of a garden hose (with water running) to end of nozzle for 30-60 seconds.



Insert tip cleaner in nozzle hole and move back and forth until debris is dislodged

Water Screen

Some pressure washers are equipped with a water inlet screen to protect the pump. If the screen is not kept clean, it will restrict the flow of water to the pressure washer and may cause damage to the pump.

- The screen is fragile so be careful when cleaning or removing it. Any foreign particles entering the pump may damage it.
- Do not operate the pressure washer without the screen in place (if originally equipped).
- Remove the screen and back-flush to remove impurities from the screen.
- Replace afterwards immediately.

Storage



Do not store pressure washer outdoors or where it might freeze.

Tips for extending the life of your pressure washer;

- Never operate unit without water.
- Pressure washer is not meant to pump hot water. Never connect to warm water supply – this will significantly reduce life of the pump.
- Using the wrong detergent other than recommended may cause damage to pump components (O-rings, etc.). This also applies to chemicals such as bleach, dish soap, etc.
- Before adjusting a nozzles pressure (high-to-low or low-to-high) release trigger. Failure to do so will reduce life of O-rings in lance.



When the pressure washer is not being operated or is being stored more than one month, it is recommended that you turn off and disconnect the power.

Troubleshooting

Symptom	Possible cause(s)	Corrective Action(s)
No detergent suction – units with attachable applicators	Detergent applicator is clogged	1. Clean applicator with warm water. 2. Replace the applicator.
Unit begins to smoke	Overheated, overloaded or damaged motor.	Turn off and call the dealer.
Pressure washer does not start up	1. Unit is pressurised. 2. Plug is not well connected, or electrical socket is faulty. 3. Extension cord is too long or wire size too small. 4. Main voltage supply is too low. 5. Thermal safety switch has tripped.	1. Squeeze trigger on gun & check for blockages. 2. Check plug, socket and fuse. 3. Remove extension cord. 4. Check that main supply voltage age is adequate. 5. Switch off motor unit and allow motor to cook down.
Pump does not reach necessary pressure	1. Water inlet filter is clogged 2. Pump is sucking air from hose connections 3. Nozzle is worn or not correct 4. Unloader is clogged or Worn 5. Valves is clogged or worn	1. Clean the water inlet filter. 2. Check that connections and locking ring are properly tightened. 3. Call the dealer. 4. Call the dealer. 5. Call the dealer.
Fluctuating Pressure	1. Pump is sucking in air. 2. Clogged nozzle. 3. Valves dirty, worn or stuck. 4. Water Seals worn.	1. Check that the hoses and connections are tight. 2. Clean with tip cleaner. 3. Call the dealer. 4. Call the sealer.
Motor stops suddenly	1. Extension cord is too long or wire size too small. 2. Thermal safety switch has tripped due to overheating.	1. Remove extension cord. 2. Check that main supply corresponds to specifications.

Specifications

Voltage	240V/50HZ
Power	2100W
Motor	Brush Motor (Aluminium)
Maximum Pressure	3100PSI (241Bar)
Continuous Pressure	2000PSI (138Bar)
Flow Rate	6.2L/min
Max Flow Rate	7.1L/min
Power Cable Length	5m
Power Plug	Australian Standard



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

