

RYOBI®

OWNER'S OPERATING MANUAL PETROL PRESSURE WASHER MODEL AJP-2900

SPECIFICATIONS

| | |
|--------------------------------|---|
| Engine type..... | Single cylinder, 4 stroke |
| Engine power..... | 2.9HP |
| Displacement..... | 94 cc |
| Engine max. speed..... | 3400min ⁻¹ |
| Fuel tank capacity..... | 1600ml |
| Fuel type..... | Unleaded petrol |
| Oil capacity..... | 300ml |
| Engine lubricant oil type..... | SAE 15W-40 |
| Starting system..... | Recoil starter |
| Spark plug type..... | E6TC |
| Working pressure..... | 100bar/(10MPa) |
| Maximum working pressure..... | 112bar/(11.2MPa) |
| Rated output flow..... | 6.0l/min |
| Hose length..... | 8m |
| Supply water temperature..... | 5-40°C |
| Sound pressure level..... | L _{pA} 86dB(A),k=3dB(A) |
| Sound power level..... | L _{WA} 99dB(A),k=3dB(A) |
| Vibration level..... | 3.4m/s ² , K=1.5m/s ² |
| Weight..... | 18kg |

THANK YOU FOR BUYING A RYOBI PETROL PRESSURE WASHER

Your new petrol pressure washer has been engineered and manufactured to Ryobi's high standard of dependability, ease of operation and operator safety. Properly cared for, it will give you years of rugged, trouble free performance. If you use your petrol pressure washer properly and only for what it is intended, you will enjoy years of safe, reliable service.



CAUTION: Carefully read through this entire owner's manual, paying close attention to the general safety rules and rules for safe operation, before using.

KEEP THIS MANUAL FOR FUTURE REFERENCE

IMPORTANT SAFETY INSTRUCTIONS

NOTICE

Do not use E15 or E85 fuel in this product. It is a violation of federal law and will damage the unit and void your warranty. Only use unleaded gasoline containing up to 10% ethanol.



The purpose of safety rules is to attract your attention to possible dangers. The safety symbols and the explanations with them, require your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instruction or warnings they give are not substitutes for proper accident prevention measures.



SAFETY ALERT SYMBOL. Indicates danger, caution or warning. May be used in conjunction with other symbols or pictures.

Failure to obey a safety warning can result in serious injury to yourself or to others. Always follow the safety precautions to reduce the risk of fire, electric shock and personal injury.

Do not attempt to operate this tool until you have read thoroughly and completely understood the safety rules, etc. contained in this manual. Failure to comply can result in accidents involving fire, electric shock or serious personal injury. Save this Owners Operating Manual and review it frequently for continual safe operation and for instructing others who may use this tool.

INTENDED USE

You may use this tool for cleaning most small to large horizontal or vertical exterior surfaces, smaller exterior objects and structures, and outdoor equipment and tools.*

You can:

Clean or remove mold and mildew from weathered decks, driveways, patios, walkways, sidewalks, etc.

Remove dirt from various exterior vertical surfaces such as house exteriors, siding, fences, brick, concrete or stone walls, etc.

Wash boats, outdoor furniture, powered or non-powered garden equipment, gutters, window screens, grills, playground equipment, etc.

*Always test in an inconspicuous area first.



DANGER. Risk of fire and serious burns: Never remove fuel cap when unit is running. Shut off engine and allow the unit to cool at least five minutes. Remove cap slowly.



WARNING. Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or carbon monoxide poisoning which will cause death or serious personal injury.

READ ALL INSTRUCTIONS

Know your tool. Read the operator's manual carefully. Learn the machine's applications and limitations as well as the specific potential hazards related to this tool.

Keep guards in place and in working order. Never operate the tool with any guard or cover removed. Make sure all guards are operating properly before each use.

Remove adjusting keys and wrenches. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.

To reduce the risk of injury, keep children and visitors away. All visitors should wear safety glasses and be kept a safe distance from work area.

Keep the area of operation clear of all persons, particularly small children, and pets.

Do not start or operate the engine in a confined space, building, near open windows, or in other unventilated space where dangerous carbon monoxide fumes can collect. Carbon monoxide, a colorless, odorless, and extremely dangerous gas, can cause unconsciousness or death.

Use right tool. Don't force tool or attachment to do a job it was not designed for. Don't use it for a purpose not intended.

IMPORTANT SAFETY INSTRUCTIONS

Dress properly. Wear long pants and long sleeves. Do not wear loose clothing, gloves, neckties, or jewellery. They can get caught and draw you into moving parts. Rubber gloves and nonskid footwear are recommended when working outdoors. Also wear protective hair covering to contain long hair.

Do not operate the equipment while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces.

Exercise caution to avoid slipping or falling.

Always wear eye protection with side shields marked to comply with ANSI Z87.1. Following this rule will reduce the risk of serious personal injury.

Don't overreach or stand on a ladder, rooftop, or other unstable support. Keep proper footing and balance at all times.

Use only recommended accessories. The use of improper accessories may cause risk of injury.

Follow the maintenance instructions specified in this manual.

Check damaged parts. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged must be properly repaired or replaced by a qualified service center to avoid risk of personal injury.

Never leave tool running unattended. Turn power off. Don't leave tool until it comes to a complete stop.

Keep the engine free of grass, leaves, or grease to reduce the chance of a fire hazard.

Keep the exhaust pipe free of foreign objects.

Follow manufacturer's recommendations for safeloading, unloading, transport, and storage of machine.

Be thoroughly familiar with controls. Know how to stop the product and bleed pressure quickly.

Keep tool dry, clean, and free from oil and grease. Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum-based products, or any solvents to clean tool.

Stay alert and exercise control. Watch what you are doing and use common sense. Do not operate tool when you are tired. Do not rush.

Do not operate the product while under the influence of drugs, alcohol, or any medication.

Check the work area before each use. Remove all objects such as rocks, broken glass, nails, wire, or string which can be thrown or become entangled in the machine.

Do not use tool if switch does not turn it off. Have switches replaced by a qualified service center.

Before cleaning, repairing, or inspecting, shut off the engine and make certain all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.

Avoid dangerous environment. Don't use in damp or wet locations or expose to rain. Keep work area well lit.

Never use in an explosive atmosphere. Normal sparking of the motor could ignite fumes.

Do not operate while smoking or near an open flame.

Do not operate around dry brush, twigs, cloth rags, or other flammable materials.



WARNING. Risk of injection or injury – Do not direct discharge stream at persons.

SPECIFIC SAFETY INSTRUCTIONS

Use caution when positioning the pressure washer for use. Warm air from the engine could cause discolored spots on grass.

Never direct a water stream toward people or pets, or any electrical device.

Before starting any cleaning operation, close doors and windows. Clear the area to be cleaned of debris, toys, outdoor furniture, or other objects that could create a hazard.

IMPORTANT SAFETY INSTRUCTIONS

Never pick up or carry a machine while the engine is running.

Never start the machine if ice has formed in any part of the equipment.

Do not use acids, alkalines, solvents, flammable material, bleaches, or industrial grade solutions in this product. These products can cause physical injuries to the operator and irreversible damage to the machine.

Always operate the machine on a level surface. If the engine is on an incline, it could seize due to improper lubrication (even at the maximum lubricant level).



WARNING. High pressure jets can be dangerous if subject to misuse. The jet must not be directed at persons, animals, electrical devices, or the machine itself.

Hold the trigger handle securely with both hands. Expect the trigger handle to move when the trigger is pulled due to reaction forces. Failure to do so could cause loss of control and injury to yourself and others.

Never attempt to make any adjustments while the engine (motor) is running (except where specifically recommended by the manufacturer).

Protective covers must always cover rotating parts when the engine is running.

Keep cooling air intake (starter grip and rope area) and muffler side of the engine at least 3 feet away from buildings, obstructions, and other combustible objects.

Keep the engine away from flammables and other hazardous materials.

Keep away from hot parts. The muffler and other engine parts become very hot; use caution.

Do not touch the spark plug and ignition cable when starting and operating the engine.

Check fuel hoses and joints for looseness and fuel leakage before each use.

Check bolts and nuts for looseness before each use. A loose bolt or nut may cause serious engine problems.

Always refuel outdoors. Never refuel indoors or in a poorly ventilated area.

Fuel is highly flammable. Take precautions when using to reduce the chance of serious personal injury.

Never store the machine with fuel in the fuel tank inside a building where ignition sources are present, such as hot water and space heaters, clothes dryers, and the like.

If the fuel tank has to be drained, do this outdoors into a container approved for gasoline and away from all ignition sources.

To reduce the risk of fire and burn injury, handle fuel with care. It is highly flammable.

Only refuel outdoors and do not smoke while refueling.

Add fuel before starting the engine. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot.

Loosen fuel cap slowly to release pressure and to keep fuel from escaping around the cap.

Replace all fuel tank and container caps securely.

Wipe spilled fuel from the unit. Move 30 feet away from refueling site before starting engine.

If fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.

Never attempt to burn off spilled fuel under any circumstances.

Before storing, allow the pressure washer to cool for 30 minutes and drain fuel from the unit.

Store fuel in a cool, well-ventilated area, safely away from spark and/or flame-producing equipment.

Store fuel in containers specifically designed for this purpose.

Empty fuel tank into a container approved for gasoline and restrain the unit from moving before transporting in a vehicle.

When draining the fuel tank, use an approved fuel storage container in a well-ventilated area.

Select bare ground, stop engine, and allow to cool before refueling.

IMPORTANT SAFETY INSTRUCTIONS

Never spray close to the surface to be cleaned as you can damage the surface.

After stopping the engine, always pull the trigger on the trigger handle to relieve stored pressure in the high pressure hose. Failure to do so could result in serious personal injury.

When servicing use only recommended or equivalent replacement parts. Use of any other parts may create a hazard or cause product damage.

ONLY use cold water.

Make sure minimum clearance of 3 feet is maintained from combustible materials.

For outdoor use only.

Ensure the high pressure hose is properly connected before using the product.

Save these instructions. Refer to them frequently and use them to instruct other users. If you loan someone this tool, loan them these instructions also.

RESIDUAL RISKS

Even when the unit is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the unit's construction and design:

1. Damage to lungs if an effective dust mask is not worn.
2. Damage to hearing if effective hearing protection is not worn.
3. Health defects resulting from vibration emission if the unit is being used over long periods of time or not adequately managed and properly maintained.

WARNING

This unit produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this unit.

SERVICE

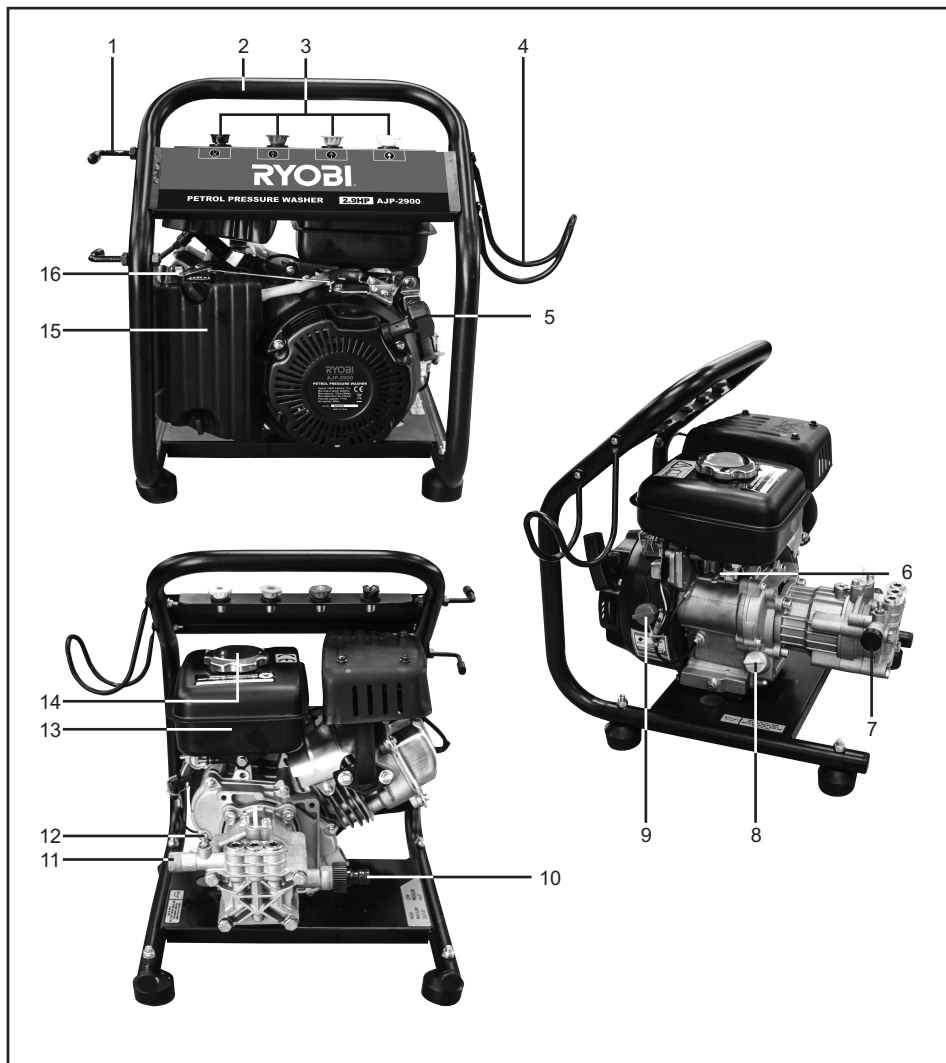
Service on the product must be performed by qualified repair personnel only. Service or maintenance performed by unqualified personnel could result in a risk of injury to the user, or

damage to the machine.

Use only identical replacement parts when servicing the product. Use of unauthorised parts may create a risk of serious injury to the user, or damage to the product.

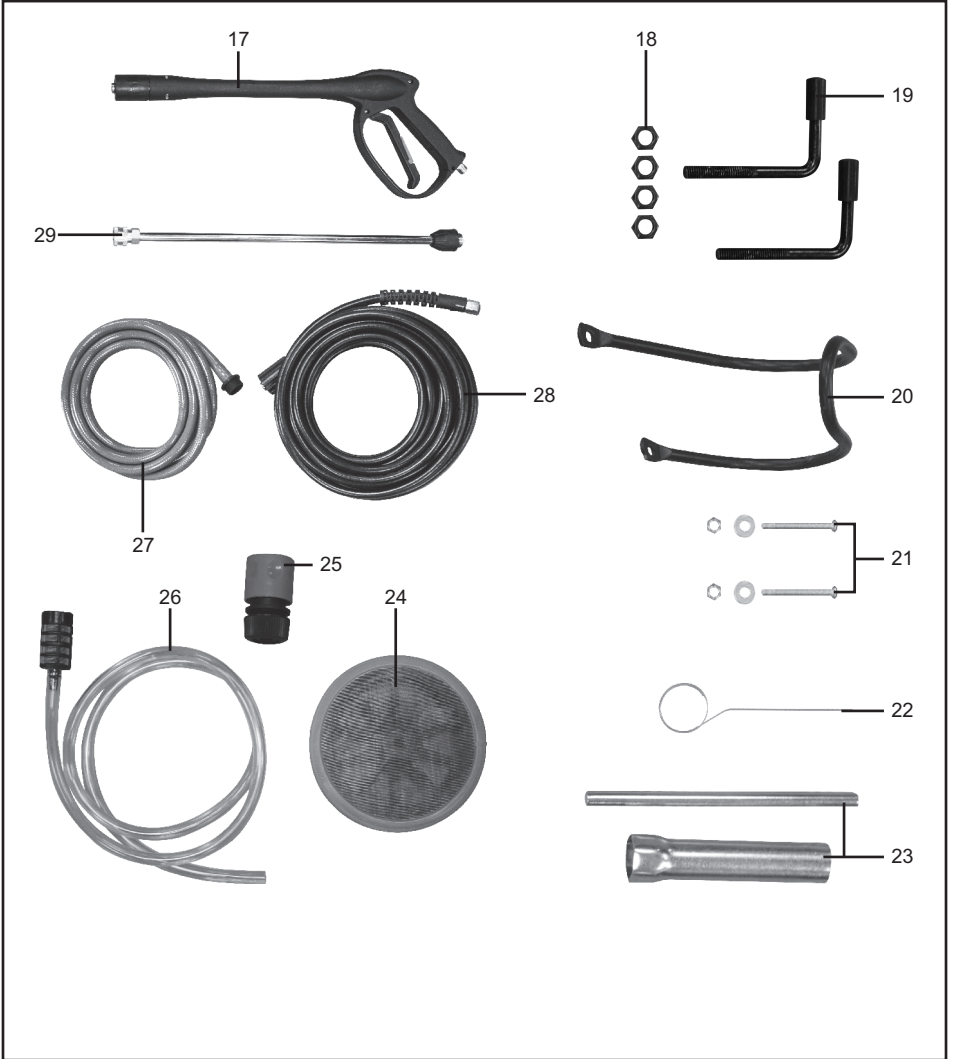
NOTE: Only perform the tasks listed in this manual. For other service or repair, it should be done by a qualified person.

DESCRIPTION



1. Gun holder brackets x 2
2. Handle
3. Quick-connect nozzles x 4
4. High pressure hose holder
5. Starter handle and rope
6. Fuel valve
7. High pressure hose connection point
8. Oil filler cap
9. Engine On/Off switch
10. Water intake connector
11. Threaded water outlet
12. Detergent hose connection point
13. Fuel tank
14. Fuel cap
15. Air filter cover
16. Choke lever

DESCRIPTION



- 17. Gun
- 18. M8 nut x 4
- 19. Gun holder brackets x 2
- 20. High pressure hose holder
- 21. M5 Bolt, washer and nut x 2
- 22. Cleaning needle
- 23. Spark plug spanner

- 24. Filter
- 25. Quick connector
- 26. Detergent hose
- 27. Water supply hose
- 28. High pressure hose
- 29. Lance

UNPACKING



CAUTION. This packaging contains sharp objects. Take care when unpacking. Remove the machine, together with the accessories supplied, from the packaging. Check carefully to ensure that the machine is in good condition and account for all the accessories listed in this manual. Also make sure that all the accessories are complete.

If any parts are found to be missing, the machine and its accessories should be returned together in their original packaging to the retailer. Do not throw the packaging away, keep it safe throughout the guarantee period, then recycle if possible, otherwise dispose of it by the proper means. Do not let children play with empty plastic bags due to the risk of suffocation.

ASSEMBLY

PACKING CONTENTS

- Petrol pressure washer
- Quick-Connect Nozzles (4)
- Gun
- Lance
- High pressure hose
- Water supply hose
- Detergent hose
- Quick connector
- Water intake connector
- Filter
- M8 nut x 4
- Gun holder brackets (2)
- High pressure hose holder
- M5 Bolt, washer and nut (2)
- Cleaning needle
- Spark plug spanner
- Operator's Manual



WARNING. To prevent an accidental start that could cause serious personal injury, always disconnect the engine spark plug wire from the spark plug when assembling parts.



WARNING. If any parts are damaged or missing do not operate this product until the parts are replaced. Use of the product with damaged or missing parts could result in possible serious personal injury.



WARNING. Do not attempt to modify this product or create accessories not recommended for use with this product. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

INSTALLING THE HIGH PRESSURE HOSE HOLDER

Attach the hose holder onto the right side of the upper handle using the M5 nuts, bolts and washers provided, Fig 1.

INSTALLING THE GUN HOLDER BRACKETS

Attach the gun holder brackets onto the left side of the upper handle using the M8 nuts provided, Fig 2.

Ensure all the fixings are securely fastened.



Fig. 1



Fig. 2

ASSEMBLY

CONNECTING THE LANCE TO THE GUN

Before using the washer fit the lance to the gun. Grip the end of the gun and screw the lance onto the gun clockwise ensuring it is tight, Fig 3. Do not over tighten as this could damage both the connectors.

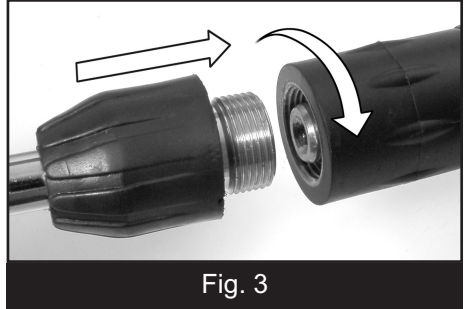


Fig. 3

CONNECTING THE HIGH PRESSURE HOSE TO THE GUN

Connect the high pressure hose connector to the connector on the underside of the gun assembly clockwise ensuring that it is tight, Fig.4. Do not over tighten as this could damage both the connectors.

NOTE: Be careful to avoid cross-threading, which can cause the gun to leak during use.

Pull on the hose to be certain it is properly secured.

CONNECTING THE HIGH PRESSURE HOSE TO THE PUMP

Completely uncoil and straighten the high pressure hose to prevent kinks.

NOTE: See Using the High Pressure Hose in Operation on page 15 for more information about using the high pressure hose.

Align the collar on the hose to the threaded outlet on the pump, Fig.5.

Insert the high pressure hose collar onto the threaded outlet.

Turn the collar clockwise to tighten the hose securely to the pump.

NOTE: Be careful to avoid cross-threading, which can cause the hose to leak during use.

Pull on the hose to be certain it is properly secured.

CONNECTING THE QUICK CONNECTOR TO THE WATER SUPPLY HOSE

Unscrew the collar (A) of the quick connector and slide onto the end of the water supply hose, Fig.6. Push the end of the water hose into the connector part B and then reconnect the collar and turn clockwise to tighten.

NOTE: Be careful to avoid cross-threading, which can cause the hose to leak during use.

Pull on the hose to be certain it is properly secured.



Fig. 4

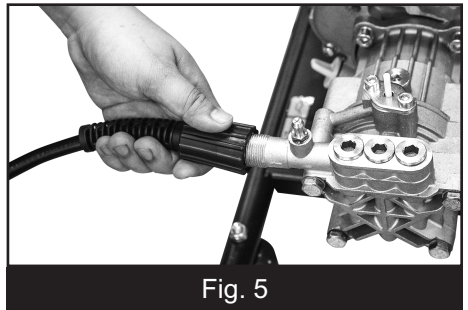


Fig. 5

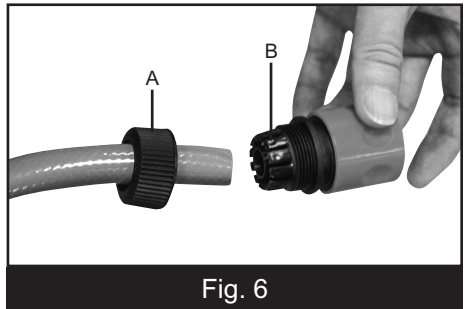


Fig. 6

ASSEMBLY

CONNECTING THE GARDEN HOSE TO THE PRESSURE WASHER

NOTE: Always observe all local regulations when connecting hoses to the water main. Some areas have restrictions against connecting directly to public drinking water supply to prevent the feedback of chemicals into the drinking water supply. Direct connection through a receiver tank or backflow preventer is usually permitted.

The water supply must come from a water main. NEVER use hot water or water from pools, lakes, etc. Before connecting the garden hose to the pressure washer:

- Run water through the hose for 30 seconds to clean any debris from the hose.
- Inspect the particle filter in the water intake.
- If the particle filter is damaged, do not use the machine until the screen has been replaced.
- If the particle filter is dirty, clean it before connecting the garden hose to the machine.

To connect the garden hose to the machine:

Completely uncoil the garden hose to prevent kinks.

NOTE: There must be a minimum of 10 feet of unrestricted hose between the pressure washer intake and the hose faucet or shut off valve (such as a “Y” shut off connector).

Screw the water intake connector onto the pressure washer water inlet (If not connected).

With the hose faucet turned completely off, connect the quick connector onto the water intake connector, Fig.7.

NOTE: Do not run the pressure washer without water supply connected and turned on, as this may damage the high pressure seals and decrease pump life. Completely unwind the hose from its reel or coil and make sure the hose is not being restricted by tyres, rocks, or any other objects that may lessen or prevent water flow to the pressure washer.

GUN SAFETY LOCK

In order to prevent accidental operation of the high-pressure lance, the gun is fitted with a safety lock, Fig 8. To engage the safety lock, release the trigger and engage the safety lock between the trigger and the gun body.

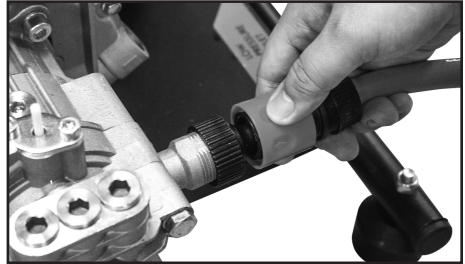


Fig. 7



Fig. 8

OPERATION



WARNING. Do not allow familiarity with tools to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.



WARNING. Always wear eye protection with side shields marked to comply with ANSI Z87.1. Failure to do so could result in objects being thrown into your eyes resulting in possible serious injury.



WARNING. Do not use any attachments or accessories not recommended by the manufacturer of this tool. The use of attachments or accessories not recommended can result in serious personal injury.



WARNING. Never direct a water stream toward people or pets, or any electrical device. Failure to follow these instructions could result in serious injury, electric shock, or death.

NOTE: Before each use, inspect the entire product for damaged, missing, or loose parts such as screws, nuts, bolts, caps, etc. Tighten securely all fasteners and caps and do not operate this product until all missing or damaged parts are replaced. Please contact customer service or a qualified service center for assistance.

ADDING/CHECKING ENGINE OIL



WARNING. This machine has been shipped with no oil. You must add oil to the engine before starting it the first time. Any attempt to start the engine without adding oil will result in engine failure.

To add engine oil:

Place the pressure washer on a flat, level surface. Do not tilt.

Unscrew the oil cap/dipstick by turning counter-clockwise, Fig.9.

Add 300ml of 4-stroke engine oil (SAE 15W-40) until the fluid level rises to the upper portion of the hatched area on the dipstick, Fig.10. Do not overfill.

To check engine oil level:

Place pressure washer on a flat, level surface. Do not tilt.

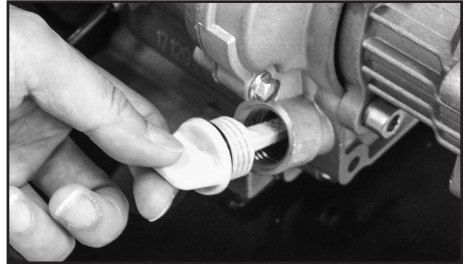


Fig. 9

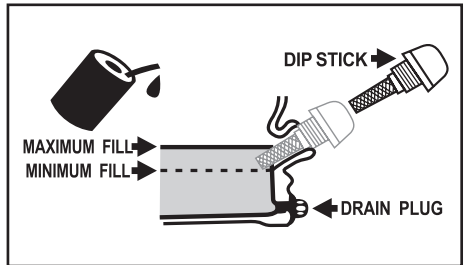


Fig. 10

Unscrew the oil cap/dipstick by turning counter-clockwise.

Wipe dipstick clean and re-seat in hole; do not rethread.

Remove dipstick again and check oil level. Oil level should fall within the hatched area on the dipstick.

If level is low, add engine oil until the fluid level rises to the upper portion of the hatched area on the dipstick.

Replace and secure the oil cap/dipstick.

NOTE: Do not overfill. Overfilling the crankcase may cause excessive smoke and engine damage.

OPERATION

OXYGENATED FUELS

NOTE. Do not use E15 or E85 fuel in this product. It is a violation of federal law and will damage the unit and void your warranty. Only use unleaded gasoline containing up to 10% ethanol.

Fuel system damage or performance problems resulting from the use of an oxygenated fuel containing more than the percentage of oxygenates stated previously are not covered under warranty.

ADDING GASOLINE TO THE FUEL TANK



DANGER. Risk of fire and serious burns: Never remove fuel cap when unit is running. Shut off engine and allow the unit to cool at least five minutes. Remove cap slowly.



WARNING. Gasoline and its vapors are highly flammable and explosive. To prevent serious personal injury and property damage, handle gasoline with care. Keep away from ignition sources, handle outdoors only, do not smoke while adding fuel, and wipe up spills immediately.



WARNING. Always shut off engine before fueling. Never remove fuel cap or add fuel to a machine with a running or hot engine. Make sure the unit is sitting on a flat, level surface and only add fuel outdoors. If the engine is hot, let the unit cool for at least five minutes before adding fuel. After fueling, immediately replace fuel cap and tighten securely. Move at least 30 ft. from refueling site before starting engine. Do not smoke and stay away from open flames and sparks! Failure to follow these instructions could result in a fire and cause serious personal injury.



WARNING. Check for fuel leaks. A leaking fuel cap, tank, or line is a fire hazard and must be replaced immediately. If you find any leaks, correct the problem before using the product. Failure to do so could result in a fire that could cause serious personal injury.

NOTE: This is a 4-cycle engine. DO NOT mix fuel and oil together.



Fig. 11

Mix fuel stabilizer with gasoline according to fuel stabilizer manufacturer's directions.

Before removing the fuel cap, clean the area around it.

Remove the fuel cap, Fig.11.

Insert a clean funnel into the fuel tank then slowly pour gasoline into the tank. Fill tank to approximately 1-1/2 in. (25-40mm) below the top of the tank neck (this allows for fuel expansion).

Replace fuel cap and tighten until the cap "clicks".

Clean up any spills before starting the engine.

STARTING AND STOPPING THE PRESSURE WASHER

NOTE. Do not run the pressure washer without water supply connected and turned on, as this may damage the high pressure seals and decrease pump life. Completely unwind the hose from its reel or coil and make sure the hose is not being restricted by tyres, rocks, or any other objects that may lessen or prevent water flow to the pressure washer.

Before starting the engine:

Connect all hoses.

NOTE: Make sure the pressure washer's water intake filter is in place and unclogged before connecting garden hose.

Check all fluids (oil and gas).

Turn on the garden hose then squeeze the trigger to relieve air pressure; hold the trigger until a steady stream of water appears.

NOTE: Make sure the faucet is turned on fully and that there are no kinks or leaks in the hose.

OPERATION

To start the engine:

Move the fuel valve to the ON position, Fig.12.

Put the On/Off switch in the ON position, Fig.13.

Move the choke to the START (cold start) position, Fig.14.

NOTE: If restarting after a brief stop (i.e., after refueling or moving), leave the choke lever in the RUN position.

Pull the starter grip and rope until the engine runs (a maximum of 6 times), Fig.15.

NOTE: Do not allow the starter grip and rope to snap back after starting; return it gently to its original place.

Allow the engine to run for 5 seconds, then push the choke to the RUN position.

NOTE: Routinely make a visual inspection of the pump and engine during use. If you notice any oil leaking around the pump or engine seals, stop using the pressure washer immediately. Contact customer service or a qualified service center for repair. Failure to do so may cause property damage.

To stop the engine:

Put the On/Off switch in the OFF position.

Move the fuel valve to the OFF position.

NOTE: Shutting off the engine will not relieve pressure in the system. **Pull trigger to release water pressure.**



WARNING. While operating and storing, keep at least 3 feet of clearance on all sides of this product, including overhead. Allow a minimum of 30 minutes of "cool down" time before storage. Keep all body parts, clothing, combustible materials, and hoses away from the muffler. Heat created by muffler and exhaust gases could be hot enough to cause serious burns, ignite combustible objects, and/or damage high pressure hoses that can result in an injection injury.

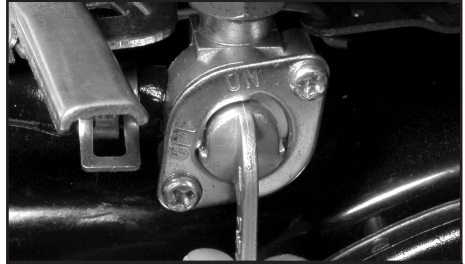


Fig. 12

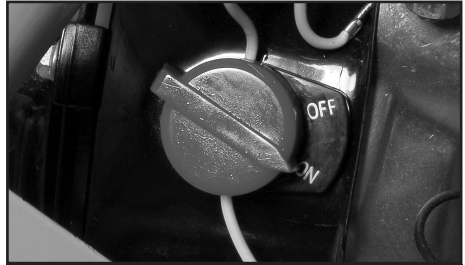
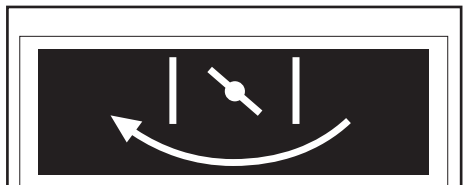


Fig. 13



START

RUN

Fig. 14



Fig. 15

OPERATION

USING THE GUN



WARNING. Hold the gun securely with both hands. Expect the gun to move when the trigger is pulled due to reaction forces. Failure to do so could cause loss of control and injury to yourself and others.

Pull back and hold the trigger to operate the pressure washer.

Release the trigger to stop the flow of water through the nozzle.

To engage the lock out:

Push up on the lock out until it clicks into the slot.

To disengage the lock out:

Push the lock out down and into its original position.

Start with the nozzle 1-2 ft. away from the cleaning surface and carefully approach the surface just until the desired level of cleaning is achieved. If the spray is too close it can damage the cleaning surface.

SELECTING THE RIGHT NOZZLE FOR THE JOB

Each of the nozzles has a different spray pattern. Before starting any cleaning job, determine the best nozzle for the job. Refer to the Nozzle Selection Guide for more information about which nozzle to choose.



WARNING. NEVER remove nozzles without first turning off the engine, relieving the water pressure in the trigger gun, and locking the lock out on the trigger gun.

NEVER point the nozzle at your face or at others. The quick-connect feature contains small springs that could eject the nozzle with some force. Failure to follow these instructions could result in an eye injury or other serious personal injury.

| NOZZLE SELECTION GUIDE | | | | |
|--|-----------|-----------|-------------------|--|
| 0° | 25° | 40° | SOAP | |
| | | | | <p>HIGH PRESSURE (NO SOAP WHEN USING THESE NOZZLES)</p> |
| | | | | <p>LOW PRESSURE (FOR SOAP OR GENTLE RINSE)</p> |
| | | | | |
| | | | | |
| 0° Red | 25° Green | 40° White | Black Soap Nozzle | |
| | | | | |
| Concrete, Brick, Masonry | | | | |
| Siding, Gutters, House | | | | |
| Fencing, Deck, Patio | | | | |
| Lawn Equipment, Boat, RV | | | | |
| <p>✓ Recommended Nozzle ✓ Use With Caution for Certain Applications</p> | | | | |

OPERATION

To connect a nozzle to the lance, Fig.16:

- A. Nozzle
- B. "Click"
- C. Quick-connect collar
- D. Lance
- E. Pull back the quick-connect collar
- F. Push the nozzle into place
- G. Push the collar forward

Turn off the pressure washer and shut off the water supply. Pull trigger to release water pressure.

Engage the lock out on the trigger gun by pushing up on the lock out until it clicks into the slot.

Pull back the quick-connect collar, Fig.16.

Push the nozzle into place in the lance.

Push the collar forward so that the nozzle is secured properly. Check to see that the nozzle is secure.

To disconnect a nozzle from the spray wand once the cleaning job is complete:

Turn off the pressure washer and shut off the water supply. Pull trigger to release water pressure.

Engage the lock out on the trigger gun by pushing up on the lock out until it clicks into the slot.

Pull back and hold the quick-connect collar.

Remove the nozzle by pulling it from the quick-connect collar. Place nozzle in the nozzle storage area on the top of the machine.

USING THE HIGH PRESSURE HOSE



WARNING. Injection hazard. Fully unwrap and straighten high pressure hose prior to and during each use and do not allow it to become kinked. The high pressure hose features an outer covering that provides strength to the hose. If the outer covering becomes damaged, stop using the hose and replace it immediately. A kinked or damaged hose can develop a high pressure leak and result in a possible injection or other serious personal injury.

To prevent damage to the outer covering:

Inspect the hose before every use.

Fully unwrap and straighten hose before use.

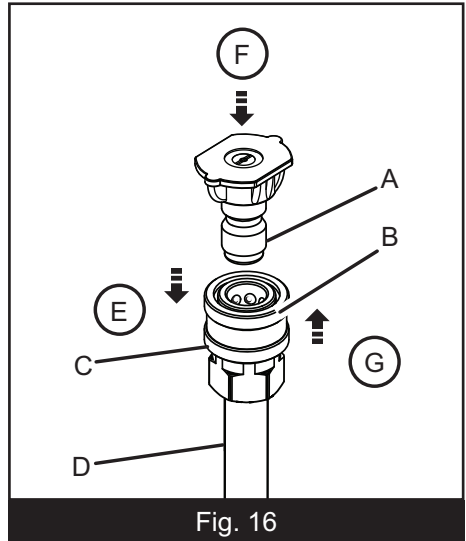


Fig. 16

Do not allow the high pressure hose to be kinked.

Keep hose away from hot surfaces and sharp edges.

Do not pull unit by high pressure hose.

Do not allow hose to be crushed or wrapped around objects.

WASHING WITH DETERGENT

Do not use household detergents, acids, alkalines, bleaches, solvents, flammable material, or industrial grade solutions, which can damage the pump or cause property damage.

We recommend the use of a good quality pressure washer detergent for use with this pressure washer. Please follow the instructions on the container.

Most automobile detergents are a combination of a detergent and a wax solution, (wash/wax liquid). These tend to be a thick viscous liquid. The viscosity (thickness) of the detergent will increase in cold weather. It is recommended that this type of detergent is diluted with warm water before filling the container.

OPERATION

When using combination wash and wax solutions we recommend that they are diluted before use. As a general guide we would recommend a dilution rate of 50/50. However a trial and error process would determine the ideal dilution rate for a particular detergent.

Fill a suitable container with pressure washer detergent.

Fit the detergent hose to the detergent hose connection point, Fig.17.

Install the black soap nozzle on the spray lance.

Submerge the end of the detergent pick up hose into your container of pressure washer detergent, Fig.18. Suction and mixing will occur automatically as the water flows through the pump.

Squeeze the trigger and wait approximately 5 seconds for the detergent to appear.

Spray the detergent on a dry surface using long, even, overlapping strokes. To prevent streaking, do not allow detergent to dry on the surface.

Before shutting off the engine:

Fill the soap container with clean water.

Spray the clear water through the spray lance until the tank is empty.

If any detergent remains in the spray, repeat with a second container of clean water.

Shut off the engine.

NOTE: Shutting off the engine will not relieve pressure in the system. Pull trigger to release water pressure.

RINSING WITH THE PRESSURE WASHER

Turn off the pressure washer and shut off the water supply. Pull trigger to release water pressure.

Engage the lock out on the trigger gun by pushing up on the lock out until it clicks into the slot.

Remove the soap nozzle by placing hand over nozzle then pulling back the quick-connect collar. Place nozzle in the nozzle storage area on the top of the machine.

Select the right nozzle for the job. See the chart on page 14 for selecting the appropriate nozzle.

Start at the top of the area to be rinsed and work down, overlapping the strokes.

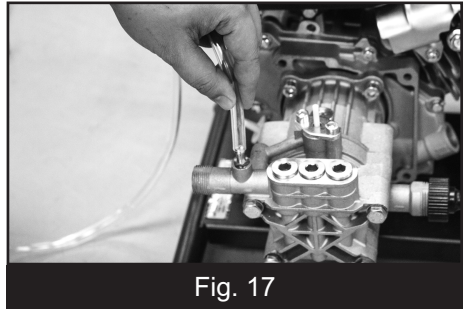


Fig. 17



Fig. 18

MOVING THE PRESSURE WASHER

Always carry this product using the handle and never place the unit in any position other than upright on its rubber feet. We recommend lifting this product with another person.

DO NOT attempt to move the unit by pulling on any of the hoses.

HIGH ALTITUDE OPERATION

Your engine is configured for operation below 3000 feet altitude at the factory. Your engine must be reconfigured for operation above 3000 feet altitude. Operating the engine with the wrong engine configuration at a given altitude may increase its emissions, decrease fuel efficiency, degrade performance, and cause irreversible damage. Engines configured for high altitude operation cannot be operated in standard altitude conditions. A qualified service center should ensure that your engine is properly configured for your location.

OPERATION

USING AN ALTERNATIVE WATER SUPPLY

If you don't have an outside tap, or a hose pipe then you may wish to use a bucket of water to draw water into your pressure washer. Using water from a bucket, water butt, a tank or barrel will save the amount of water you use.

Always connect the filter onto the end of the water supply hose before submerging in water, Fig.19.

Once submerged in the water you are ready to go. The filter on the water supply hose will help prevent grit and stones from being drawn into and used by the pressure washer.



Fig. 19

MAINTENANCE

Normal maintenance, replacement or repair of emission control devices and systems may be performed by any qualified repair establishment or individual with original or equivalent parts. Warranty and recall repairs must be performed by an authorized service center; please contact customer service for assistance.



WARNING. Before inspecting, cleaning, or servicing the machine, shut off engine, wait for all moving parts to stop, and disconnect spark plug wire and move it away from spark plug. Failure to follow these instructions can result in serious personal injury or property damage.



WARNING. Always wear eye protection with side shields marked to comply with ANSI Z87.1. Failure to do so could result in objects being thrown into your eyes resulting in possible serious injury.



WARNING. When servicing, use only recommended or equivalent replacement parts. Use of any other parts could create a hazard or cause product damage.

NOTE. Periodically inspect the entire product for damaged, missing, or loose parts such as screws, nuts, bolts, caps, etc. Tighten securely all fasteners and caps and do not operate this product until all missing or damaged parts are replaced. Please contact customer service or a qualified service center for assistance.

GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.



WARNING. Do not at any time let brake fluids, gasoline, petroleum based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which could result in serious personal injury.

Before running the engine, perform the following preoperation steps:

Check that all bolts, nuts, etc., are securely tightened.

Make sure the air filter is clean.

Check both the engine oil level and the fuel tank level; refill as needed.

Inspect the work area for hazards.

If there is excessive noise or vibration, stop the unit immediately.

MAINTENANCE

NOZZLE MAINTENANCE

Excessive pump pressure (a pulsing sensation felt while squeezing the trigger) may be the result of a clogged or dirty nozzle.

Turn off the pressure washer and shut off the water supply. Pull trigger to release water pressure.

Remove the nozzle from the spray lance.



WARNING. NEVER remove nozzles without first turning off the engine, relieving the water pressure in the trigger gun, and locking the lock out on the trigger gun. NEVER point the nozzle at your face or at others. The quick connect feature contains small springs that could eject the nozzle with some force. Failure to follow these instructions could result in an eye injury or other serious personal injury.

To free any foreign materials clogging or restricting the nozzle, blow out or remove debris with a straightened paper clip or the cleaning needle, Fig.20.

Using a garden hose, flush debris out of nozzle by back flushing (running the water through the nozzle backwards or from the outside to the inside).

Reconnect the nozzle to the spray lance.

Turn on the water supply and start the engine.

CLEANING/REPLACING THE AIR FILTER

A dirty air filter will cause starting difficulty, loss of performance, and shorten the life span of the engine. Check the air filter monthly. For best performance, replace the air filter at least once a year.

Unscrew the two filter cover knobs, Fig.21 and lift away the filter cover, Fig.22.

Using a damp cloth, wipe the air filter cover and inner surface. Take care not to allow dust to enter the carburetor.

Remove the air filter.

Rinse filter with clean water.

Gently squeeze filter until excess water is removed.

Apply a light coat of engine oil to the filter, then squeeze it out.

Reinstall the foam filter.

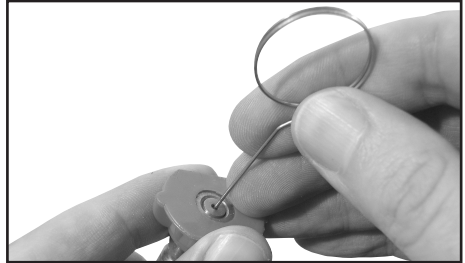


Fig. 20



Fig. 21



Fig. 22

NOTE: Make sure the filter is seated properly inside the compartment. Installing the filter incorrectly will allow dirt to enter the engine, causing rapid engine wear.

Reinstall the filter cover and secure in place with the two filter cover knobs.

MAINTENANCE

SPARK PLUG

Do not attempt to remove the spark plug from a hot engine.

Clean or replace the spark plug if it is soiled with heavy oil deposits.

Replace the spark plug if the centre electrode is worn at the end.

This engine uses a E6TC spark plug with a 0.7-0.8mm electrode gap, Fig.23. Use an exact replacement and replace annually.

1. Pull out the spark plug cap and clean the dust in the spark plug area, Fig.24.
2. Screw out the spark plug with the provided spark plug spanner.
3. Check the ceramic isolation. Replace the spark plug if damaged.
4. Clean the electrodes (metal tip) to refresh the surfaces.
5. Restore the spark plug and its cap.

NOTE: An improperly tightened spark plug will become very hot and could damage the engine.

CHANGING ENGINE OIL

Place the machine on a level surface and warm up the engine for several minutes.

Stop the engine.

Remove the oil filler cap.

Place an oil pan under the engine. Remove the oil drain plug, Fig.25, so that the oil can be completely drained. You will need to use a tube or other similar device to prevent the oil leaking onto the frame of the pressure washer.

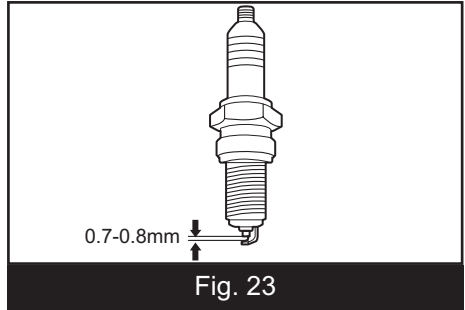
NOTE: Drain the oil while the engine is still warm but not hot. Warm oil will drain quickly and more completely.



WARNING. Do not change engine oil while it is hot. Accidental contact with hot engine oil could result in serious burns.

Reinstall the oil drain plug.

Fill with oil following the instructions in Adding/Checking Engine Oil earlier in this manual.



For amount of oil needed to refill, see Product Specifications earlier in this manual.

Before using the pressure washer, check to ensure that no oil is leaking from the engine.

NOTE: Consult hazardous waste management guidelines in your area for the proper way to dispose of used oil.

MAINTENANCE

PUMP MAINTENANCE

Routinely make a visual inspection of the pump. If you notice any leaking of oil around the pump seals, take the pressure washer to an authorized service center for repair.

There are no user serviceable parts to the pressure washer pump. Any attempt to service or alter the pump may damage the pressure washer and void your product warranty.

STORING THE PRESSURE WASHER

NOTE: Regular use of fuel stabilizer and pump protector will give you better performance of the unit and increase the life of the pump.



WARNING. While storing, keep at least 3 feet of clearance on all sides of this product, including overhead. Allow a minimum of 30 minutes of “cool down” time before storage. Heat created by muffler and exhaust gases could be hot enough to ignite combustible objects.

Store in a dry, covered area where the weather can't damage it.

It is important to store this product in a frost-free area. Always empty water from all hoses, the pump, and the soap tank before storing.

Drain the fuel tank completely by running the pressure washer until the gas runs out. Stored gas can go stale in 30 days.

NOTE: Make sure the water supply is connected and turned on when allowing the pressure washer engine to run.

Make sure the On/Off switch is OFF and fuel valve is OFF.

Disconnect both the high pressure hose and the water hose from the pump.

Empty the pump by pulling on the starter grip and rope about 6 times. This should remove most of the liquid from the pump.

NOTE: The use of a pump protector is required after each use and before storing to prevent cold

weather and seal damage during storage. Failure to use pump protector will void your warranty.

Drain the oil and replace with fresh, clean oil as described in Adding/Checking Engine Oil in the Operation section of this manual.

Disconnect spark plug wire and remove the spark plug.

Pour about a teaspoon of clean, air-cooled, four-cycle oil through the spark plug hole into the combustion chamber.

Leaving the spark plug out, pull the starter grip and rope two or three times to coat the inside of the cylinder wall.

Inspect the spark plug and clean or replace, as necessary.

Reinstall the spark plug, but leave the spark plug wire disconnected.

Clean the air filter.

Extend the starter grip and rope to check its condition.

If the rope is frayed, have it replaced immediately by a qualified service center.

Remove all hoses. Coil the hoses and store.

Do not allow the hose to become kinked.

Store the unit and accessories in an area that does not reach freezing temperatures. Do not store near furnace or other sources of heat that could dry out the pump seals.

PREPARING FOR USE AFTER STORAGE

Pull the starter grip and rope grip three or four times to clean oil from the combustion chamber.

Remove spark plug from the cylinder. Wipe oil from the spark plug and return it to the cylinder.

Reconnect the spark plug wire.

Refuel the machine as described earlier in the operator's manual.

SERVICE

Now that you have purchased your tool, should a need ever exist of repair or service, simply contact your nearest Ryobi Authorised Service Centre or other qualified service organisation. Be sure to provide all pertinent facts when you call or visit.

MAINTENANCE

PERIODIC MAINTENANCE SCHEDULE TABLE

NOTE: If a separate engine manual is provided for this pressure washer, please follow the maintenance schedule provided in the engine manual for all engine maintenance items instead of the maintenance information listed below.




| Maintenance Items | Each Use | Every 8 hrs. | Every 20 hrs. | Every 50 hrs. | Every 100 hrs. | Every 300 hrs. |
|---|----------|--------------|---------------|---------------|----------------|----------------|
| Clean engine & check bolts & nuts | X | X | | | | |
| Check engine oil | X | | | | | |
| Change engine oil ¹ | | | X | | | |
| Check water inlet filter placement ² | X | | | | | |
| Add fuel stabilizer | X | | | | | |
| Add pump protector | X | | | | | |
| Clean spark plug | | | | | X | |
| Clean air cleaner | X | | | X | | |
| Replace air cleaner element | | | | X | | |
| Clean & adjust spark plug & electrodes | | | | | X | |
| Replace spark plug | | | | | X | |
| Remove carbon from cylinder head ³ | | | | | | X |
| Check & adjust valve clearance ³ | | | | | | X |




1 Initial oil change should be performed after the first 20 hours of operation. Do not pour old oil down sewage drains, into garden soil, or into open streams. Your local zoning or environmental regulations will give you more detailed instruction on proper disposal.

2 If water inlet filter is missing or damaged, it must be replaced. Call customer service.

3 Have performed by a qualified service center.















SYMBOLS

| SYMBOL | SIGNAL | MEANING |
|---|----------------|--|
|  | DANGER: | Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury. |
|  | WARNING | Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury. |
|  | CAUTION | Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. |
| | CAUTION | (Without Safety Alert Symbol) Indicates a situation that may result in property damage. |

| | | |
|---|--|--|
|  | Protect from frost | Always store this machine in a dry place that will not fall below 0°C |
|  | Never aim the water jet at people or animals | High-pressure jets can be dangerous if improperly used. The jet may not be directed at persons, animals, live electrical equipment or at the appliance itself. |
|  | Do not use on drinking water supply. | According to the applicable regulations, the appliance must never be used on the drinking water supply without a system separator |

SYMBOLS

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

| SYMBOL | NAME | DESIGNATION/EXPLANATION |
|---|-----------------------------|---|
|  | Safety Alert Symbol | Indicates danger, warning or caution. It means attention!!! Your safety is involved. |
|  | Read Your Operator's Manual | Your manual contains special messages to bring attention to potential safety concerns as well as operating and servicing information. Please read all the information carefully to ensure satisfaction and safe use. |
|  | Eye Protection | Always wear eye protection with side shields marked to comply with ANSI Z87.1. |
|  | Wet Conditions Alert | Do not expose to rain or use in damp locations. |
|  | Hot Surface | To reduce the risk of injury or damage, avoid contact with any hot surface. |
|  | Risk of Injections | To reduce the risk of injection or injury, never direct a water stream towards people or pets or place any body part in the stream. Leaking hoses and fittings are also capable of causing injection injury. Do not hold hoses or fittings. |
|  | Risk of Explosion | Do not spray flammable liquids. Flammable liquids, fuel, and their vapors are explosive and can cause severe burns or death. |
|  | Risk of Fire | Fuel and its vapors are extremely flammable and explosive. Fire can cause severe burns or death. |
|  | Toxic Fumes | Gas products emit carbon monoxide, an odourless, colourless, poison gas. Breathing carbon monoxide can cause nausea, fainting, or death. |
|  | Kickback | To reduce the risk of injury from kickback, hold the spray lance securely with both hands when the machine is on. |
|  | Electric Shock | Failure to use in dry conditions and to observe safe practices can result in electric shock. |
|  | Chemical Burns | To reduce the risk of injury or damage, do not use acids, alkalines, bleaches, solvents, flammable materials or industrial grade solutions in this product. |
|  | Recycle Symbol | Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. |
|  | CE Marking | Conforms to relevant safety standards. |

TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|-------------------------------------|---|---|
| Engine fails to start | No fuel in tank | Fill tank |
| | Spark plug shorted or fouled | Replace spark plug |
| | Spark plug is broken (cracked porcelain or electrodes broken) | Replace spark plug |
| | Ignition lead wire shorted, broken, or disconnected from spark plug | Replace lead wire or attach to spark plug |
| | Ignition inoperative | Contact a qualified service center |
| Engine hard to start | Water in gasoline | Drain entire system and refill with fresh fuel |
| | Weak spark at spark plug | Contact a qualified service center |
| Engine lacks power | Dirty air filter | Clean or replace air filter |
| Detergent fails to mix with spray | High pressure nozzle attached | Use blue soap nozzle to apply detergent |
| | Soap tank is empty | Add detergent to soap tank |
| Pump doesn't produce pressure | Low pressure nozzle installed | Replace with high pressure nozzle |
| | Inadequate water supply | Provide adequate water flow |
| | Trigger gun or spray lance leaks | Check connections and / or replace trigger gun or spray lance |
| | Nozzle is clogged | Clean nozzle |
| | Air in line | Squeeze trigger on trigger handle to remove air from line |
| | Hose is leaking | Replace hose |
| | Kink in hose | Eliminate kinks in hose |
| | Choke in START (cold start) position | Move choke to RUN position |
| | Pump is faulty | Contact a qualified service center |
| Machine doesn't reach high pressure | Diameter of garden hose is too small | Replace with 3/4 in. garden hose |
| | Water supply is restricted | Check garden hose for kinks, leaks, and blockages |
| | Not enough inlet water | Open water source full force |
| | Wrong nozzle is attached | Attach the high pressure nozzle |

If problem persists after trying the above solutions, contact customer service or a qualified service center for assistance.

NOTICE:

As the equipment owner, you are responsible for the performance of the required maintenance listed in the Maintenance section. It is recommended that you retain all receipts covering maintenance on your equipment. Neglecting or failing to perform the required maintenance may increase emissions, decrease fuel efficiency, degrade performance, cause irreversible engine damage and/or void your warranty.

RYOBI POWER EQUIPMENT WARRANTY

Subject to the warranty conditions below, this RYOBI tool (hereinafter called "the Product"), is warranted by Ryobi (herein called "the Company") to be free from defects in material or workmanship for a period of 24 months from the date of original purchase covering both parts and labour. Under the terms of this warranty, the repair or replacement of any part shall be the opinion of the Company or its authorised agent. Should service become necessary during the warranty period, the owner should contact the authorised Ryobi retailer from whom the product was purchased, or the nearest Company branch office. In order to obtain warranty service, the owner must include the Sales Docket and Warranty Certificate to confirm date of purchase. This Product is sold by the dealer or agent as principal and the dealer has no authority from the Company to give any additional warranty or guarantee on the Company's behalf except as herein contained or herein referred to.

Warranty Conditions

This warranty only applies provided that the Product has been used in accordance with the manufacturer's recommendations under normal use and reasonable care (in the opinion of the Company) and such warranty does not cover consumable components, damage, malfunction or failure resulting from

misuse, neglect, abuse, or used for a purpose for which it was not designed, or is not suited and no repairs, alterations or modifications have been attempted by other than an Authorised Service Agent. This guarantee will not apply if the tool is damaged by accident or if repairs arise from normal wear and tear.

Accessories such as bits, blades, sanding discs, cutting lines, etc., are excluded from this guarantee. Normal consumable parts, such as carbon brushes, bearings, chucks, cord assembly's, spark plugs, recoil pulleys and bump head assembly's are specifically excluded from this guarantee.

The Company accepts no additional liability pursuant to this warranty for the costs of traveling or transportation of the Product or parts to and from the service dealer or agent - which costs are not included in the warranty.

Nothing herein shall have the effect of excluding, restricting or modifying any conditions, warranty, right or liability imposed, to the extent only that such exclusion, restriction or modification would render any term herein void.



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THIS WARRANTY FORM SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES.

For your record and to assist in establishing date of purchase (necessary for in-warranty service), please keep your purchase docket and this form, completed with the following particulars.

PURCHASED FROM:.....

ADDRESS OF DEALER:.....

DATE:..... MODEL NO..... SERIAL NO.....

Present this form with your Purchase Docket when Warranty Service is required.