

# JETWAVE®

HIGH PRESSURE CLEANERS

## EXPLORER™ G2 HIGH PRESSURE WATER CLEANER

**⚠ WARNING!**

Read this Operator's Manual carefully before using this machine. Failure to understand and follow the contents of this manual may result in electrical shock, fire and/or serious personal injury.



**READ CAREFULLY**



Hot Water



Petrol or Diesel Driven

**Record Serial Number below and retain product serial number which is located on nameplate.**

UNIT SERIAL NO.	
ENGINE SERIAL NO.	
PURCHASE DATE	

SEWER CAMERAS AUSTRALIA  
1300 660 358



OPTIONAL TROLLEY KIT

<b>Table of Contents</b>	<b>2</b>
Safety Symbols	2
<b>General Safety Rules</b>	<b>3</b>
Work Area Safety	3
Personal Safety	3
Pressure Cleaner Use & Care	3
Service	3
<b>High Pressure Cleaning Safety</b>	<b>4</b>
<b>Description, Specifications And Standard Equipment</b>	<b>5</b>
Description	5
Specifications	5
Standard Equipment	5
<b>Machine Assembly &amp; Operation</b>	<b>6</b>
Engine Oil	6
Pump/Gearbox Oil	6
Wheels	6
<b>Pre-Operation Inspection</b>	<b>6</b>
<b>Machine and Work Area Set-Up</b>	<b>7</b>
Water Supply	8
Hose Setup	8
<b>Operating Instructions</b>	<b>8-10</b>
Pressure Washer Operation	9
Machine Shut Down	9
Hose Reel Brake Adjustment	10
Transportation and Storage	10
<b>Maintenance Instructions</b>	<b>10</b>
Cleaning	10
Engine	10
Battery	10
Pump Lubrication/Maintenance	10
Gearbox Lubrication	11
Preparing Pump for Cold Weather Storage	11
Machine Storage	11
<b>Service And Repair</b>	<b>11</b>
Disposal	11
Troubleshooting	12
Maintenance Log	13

\*Original Instructions - English

### Safety Symbols

In this operator's manual and on the product, safety symbols and signal words are used to communicate important safety information. This section is provided to improve understanding of these signal words and symbols.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

- ⚠ DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury.
- ⚠ WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- ⚠ CAUTION** indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- NOTICE** indicates information that relates to the protection NOTICE of property.



This symbol means read the operator's manual carefully before using the equipment to reduce the risk of injury. The operator's manual contains important information on the safe and proper operation of the equipment.



This symbol means always wear safety glasses with side shields or goggles when handling or using this equipment to reduce the risk of eye injury.



This symbol indicates the risk of high pressure water directed at body parts, causing skin puncture and injection injuries.



This symbol indicates the risk of loud noises from the machine, causing irritation to your ears.



This symbol indicates the risk of breathing carbon monoxide and causing nausea, fainting or death.



This symbol indicates the risk of fire and explosion from gasoline or other sources causing burns and other injury.

## General Safety Rules

### **⚠ WARNING**

**Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.**

**SAVE THESE INSTRUCTIONS!**

### Work Area Safety

- Keep work area clean and well lit.
- Keep bystanders, children, and visitors away while operating a pressure cleaner. Distractions can cause you to lose control.

### Personal Safety

- Stay alert, watch what you are doing and use common sense when operating a pressure cleaner. Do not use a pressure cleaner while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating pressure cleaners may result in serious personal injury.
- Dress properly. Do not wear loose clothing or jewelry.
- Contain long hair. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the pressure cleaner in unexpected situations.

- Use safety equipment. Always wear eye protection.
- Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions will reduce personal injuries.

### Pressure Cleaner Use and Care

- Do not force the pressure cleaner.
- Store idle pressure cleaners out of the reach of children and other untrained persons. Pressure cleaners are dangerous in the hands of untrained users.
- Maintain pressure cleaners with care.
- Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the pressure cleaners operation. If damaged, have the pressure cleaner serviced before using. Many accidents are caused by poorly maintained pressure cleaners.

Use only accessories that are recommended by the manufacturer for your model and pressure & flow rated accordingly.

### Service

- Pressure cleaner service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
- When servicing a pressure cleaner, use only genuine replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electrical shock or injury.

## High Pressure Cleaning Safety

### **WARNING**

**This section contains important safety information that is specific to this pressure cleaner.**

**Read these precautions carefully before using this drain Cleaning Machine to reduce the risk of electrical shock or other serious injury.**

### **SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE!**

Keep this manual with machine for use by the operator.

- Never operate the unit without a pressure control mechanism. Hoses can whip, causing striking injuries and spray can penetrate skin and cause serious injury.
- High pressure water can inject under skin resulting in serious injury including amputation. Do not direct spray at people or animals.
- Do not operate unit above the rated working pressure or 60°C (inlet water temperature). This increases the risk of injury, including burns, and damage to the unit.
- One person must control the high pressure cleaning process and water flow.
- Always use appropriate personal protective equipment while handling and using high pressure cleaning equipment. Appropriate personal protective equipment (PPE) includes safety glasses and gloves, and may also include equipment such as latex or rubber gloves, face shields, goggles, protective clothing, respirators, head protection, hearing protection and steel toed footwear.
- Practice good hygiene. Use hot soapy water to wash hands and other body parts exposed to drain contents after handling or using drain cleaning equipment.
- Do not eat or smoke while operating or handling high pressure cleaning equipment. This will help prevent contamination with toxic or infectious material.
- Do not spray toxic or flammable liquids. This will reduce the risk of burns, fire, explosion or other injury.
- Gasoline and its vapors are highly flammable and explosive. See engine manual for precautions to reduce the risk of burns, explosions and serious injury while handling and using gasoline.
- Engines produce carbon monoxide, a colorless, odorless poison gas. Breathing carbon monoxide can cause nausea, fainting or death. Do not start and run engine in an enclosed area, even if doors and windows are open. Only operate outside.
- Never attempt to refuel the unit whilst engine is running. Do not spill fuel on or near exhaust take extra care in the refueling process as vapors or liquid can combust due to heat.
- Hot surfaces can cause burns and fire. Keep body

parts and flammable material away from hot surfaces.

- Read and understand this manual, the engine manual and the warnings and instructions for all equipment and material being used with this tool before operating. Failure to follow all warnings and instructions may result in property damage and/or serious injury.
- Follow all applicable workplace health and safety regulations and guidelines concerning the use of this equipment.
- Read and understand Australia/New Zealand standard AS/NZS4233.1:13 High Pressure Water Jetting Systems Part 1: Safe Operation & Maintenance.

If you have any question concerning this Jetwave® product:

- Contact your local Jetwave® distributor.
- Visit [jetwave.com.au/find-a-dealer](http://jetwave.com.au/find-a-dealer) to find your local Jetwave contact point.

## Description, Specifications and Standard equipment

### Description

The Jetwave® Explorer™ G2 combustion engine powered Hot Water High Pressure Cleaner machine is a portable unit designed to use a combination of water pressure, heat and flow to clean different surfaces from dirt, grease, oil & grime. Water is pumped through the high pressure plunger pump & boiler at increased pressure and flow allowing water to be used at such high pressure to remove dirt and grime from surfaces. The Explorer™ G2 High Pressure Cleaner is equipped with either a unleaded gasoline powered HONDA™ engine or a diesel powered KOHLER™ engine to drive the triplex pump via a reduction gearbox.



Figure.2 - Explorer G2D (Kohler Diesel)



Figure.1A - Explorer G2 (Honda Petrol)

### Standard equipment

Jetwave Explorer™ G2 High Pressure Cleaner comes with:

- High Pressure gun & back part lance
- Variable dual lance with high and low nozzles
- 15m of DWB 3/8" high pressure hose
- Engine Operator's Manual (diesel or petrol)
- Operator's Manual
- (Optional) Trolley Kit
- (Optional) Hose Reel
- (Optional) Water Bypass Tank



Figure.1B - Explorer G2D (Kohler Diesel) with optional trolley kit



Figure.3 - Machine Serial Number

MODEL	PUMP	PRESSURE (PSI/BAR)	FLOW RATE (L/PM)	ENGINE	NOZZLE SIZE	UNIT WEIGHT (KG)	MACHINE DIMENSIONS SKID (mm)
Explorer G2	JW Triplex Plunger	3650 / 250	13	HONDA iGX390 (Petrol)	04	280	1090(L)x700(W)x920(H)
Explorer G2D	JW Triplex Plunger	3150 / 210	15	KOHLER KD15-440 (Diesel)	045	280	1090(L)x700(W)x920(H)
Explorer G2D	JW Triplex Plunger	4060 / 280	13	KOHLER KD15-440 (Diesel)	035	280	1090(L)x700(W)x920(H)

The machine serial number is located on the frame. The first letter & digits indicate the year and month of the manufacture. (G = 2021 (Year), 4 = April (Month)).

**NOTICE** This machine is made high pressure water clean. If properly used it should not damage a surfaces that is in good condition and properly designed, constructed and maintained. If the surface is in poor condition or not properly designed, constructed or maintained, the water cleaning process may not be effective or could cause damage to the surface. The best way to determine the condition of a surface before cleaning is through visual inspection. Improper use of this pressure cleaner can damage the unit and the surface. This machine may not clear all substrate debris.

## Machine Assembly

### ⚠ WARNING

**To prevent serious injury during use and prevent machine damage, follow these procedures for proper assembly.**

### Engine Oil

**NOTICE** The unit is shipped with oil in the engine. Operating the engine with low or no oil will result in engine failure. See supplied engine operator's manual for specific information on checking oil, adding oil and oil selection.

### Pump/Gearbox Oil

The unit is shipped with oil in the pump and gearbox. Check oil level (ensure half way on sight-glasses) per Maintenance section.

### Wheels (Optional)

Typically the unit is boxed and shipped with wheels assembled. Wheels, Axles & Locking Collar are found within the box. To assemble the wheels, slide axles through axle location hole, slide wheels on each side find centerline and proceed to install locking collar each side with 4mm Allen key tool. (if applicable)

## Pre-Operation Inspection

### ⚠ WARNING



**Before each use, inspect your pressure cleaner and correct any problems to reduce the risk of serious injury from high pressure water and other causes and prevent unit damage. Always wear appropriate safety equipment, when inspecting your unit.**

1. Make sure that the battery isolator (if applicable) and engine switch is in the OFF position.
2. Clean any oil, grease or dirt from the equipment, including the handles and controls. This aids inspection and helps prevent the machine or control from slipping from your grip.
3. Inspect the high pressure cleaner and accessories for the following:
  - Proper assembly and completeness.
  - Broken, worn, missing, misaligned, binding or loose parts.
  - Presence and readability of the warning labels. (See Figure 4A.)
  - Any other condition which may prevent the safe and normal operation.

If any problems are found, do not use the unit until the problems are corrected.



Figure.4A - Explorer G2 Warning Labels

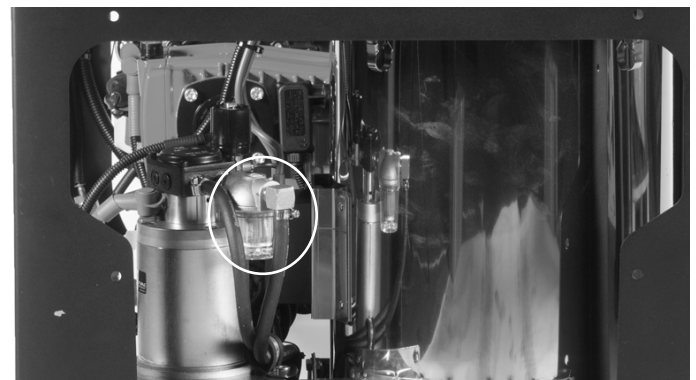
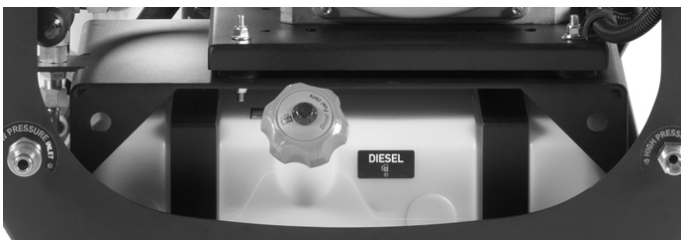


Figure.4B - Explorer G2 Water Filter

Clean water filter (Figure 4B). Unscrew the clear plastic bowl cover anti-clockwise and remove and clean the mesh filter (note: ensure the o-ring is set back into place before screwing plastic bowl back on). Dirt and debris can restrict the water flow to the pump and cause performance issues.

4. Inspect the pressure cleaner nozzle orifices for any damage or blockage. Blockages can be cleaned with a nozzle cleaning tool. Use care not to enlarge nozzle orifices while cleaning. Damaged nozzles or nozzles with enlarged orifices can decrease unit performance and should be replaced.
5. Inspect the hoses, connectors and fittings for wear and damage. If there are any kinks, cracks, breaks or wear through the outer jacket of the hose or other damage, do not use the hose. Damaged hoses can burst or leak high pressure water and cause serious injury. Replacement hoses and fitting should be rated at or higher than the unit pressure and temperature rating.
6. Inspect and maintain the engine per the engine operator's manual.
7. Check engine fuel level. If needed, add unleaded gasoline for Explorer G2 Petrol Honda engine or add diesel fuel for Explorer G2D Kohler diesel engine. See engine operator's manual for requirements. Use caution when handling fuel. Work in a well ventilated area. Never fill the tank while unit is running or hot, do not overfill tank and do not spill fuel. Make sure tank cap is securely closed.
8. Check diesel fired burner fuel tank level, if needed add diesel. Use caution when handling fuel. Work in a well ventilated area. Never fill the tank while unit is running or hot, do not overfill tank and do not spill fuel. Make sure tank cap is securely closed. Ensure burner on/off button is located in off position and thermostat dial is set to 0° C / off position.



**Figure.5A - Diesel fired burner fuel supply tank**

9. Check the oil level(s) in the pump and gear box through the sight glass and add oil if needed (see Maintenance Instructions section). Inspect Engine as directed in the engine operator's manual.



**Figure.5B - Burner on/off button and thermostat location**

## Machine and Work Area Set-up

### ⚠ WARNING



**Always wear safety glasses, gloves and other appropriate protective equipment when setting up your pressure cleaner. Rubber soled, non-slip shoes can help prevent slipping on wet surfaces.**

**Engines and burners produce carbon monoxide, a colorless, odorless poison gas. Breathing carbon monoxide can cause nausea, fainting or death. Do not start and run engine in an enclosed area, even if doors and windows are open. Only operate outside.**

**Set-up the unit and work area according to these procedures to reduce the risk of injury from high pressure water, chemical burns, infections, carbon monoxide and other causes, and prevent unit damage.**

1. Check work area for:
  - Adequate lighting.
  - Flammable liquids, vapors or dust that may ignite. If present, do not work in area until sources have been identified and corrected. The machine is not explosion proof and can cause sparks.
  - Clear, level, stable dry place for machine and operator.
  - If needed, remove the water from the work area. Wood or other coverings may need to be put down.
  - Unit location that is in a well ventilated outdoor area. Do not place the unit indoors, even with doors and windows open. Unit can be located remotely from the point of use.
  - Suitable water supply. Clear path to transport the unit to the set up location.
2. Inspect the surface to be cleaned, and make sure no materials or elements are in the way of the unit.
3. Determine the correct equipment for the application.
4. Make sure all equipment has been properly inspected.
5. Evaluate the work area and determine if any barriers are needed to keep bystanders away. Bystanders can distract the operator. If working near traffic, erect cones, signs or other barriers to alert drivers.
6. Take the unit to the well-ventilated outdoor work area along the clear path. See Transportation Section. Be aware of possible slip hazards. Wear appropriate footwear to help prevent slips.

## Water Supply

Run a hose from the water source to the unit water inlet. Use the largest diameter, shortest length hose possible. A 1/2" (13mm) I.D. Inlet hose is the minimum recommended size. An appropriate backflow prevention device should be used to comply with all local codes and ordinances.

Dirt and debris in the water supply can cause excess pump wear, clog the unit filter, nozzles and reduce performance.

Do not use water from ponds, lakes or other sources that may be contaminated.

Fill the water tank prior to starting the unit (If Applicable).

The tank is equipped with a: (If Applicable)

- Low water level shut-off (If Applicable) to prevent pump damage from insufficient water. This will shut OFF the engine when the tank water level falls below a predetermined level.
- Float valve to shut-off inlet water when the tank is full, preventing water spillage through the tank vent.

By removing two screws, the top of the tank can be removed for inspection or tank cleaning.

Warm water can be used for improved cleaning. Do not use water hotter than 60°C. When using warm water, use appropriate personal protective equipment to reduce the risk of burns.

When using in cold weather, use precautions to prevent water from freezing in the pump. This can damage the pump.

## Hose Set-Up

Use care when routing hoses. Routing hoses over rough surfaces, sharp edges, crossing hoses, etc. can damage the hose jacket. Keeping the unit hose on the reel(s) will help to minimize hose damage.

## Operating Instructions

### ⚠ CAUTION



**Always wear eye protection to protect your eyes against dirt and other foreign objects. Always wear appropriate personal protective equipment for the work environment.**

**Never operate the unit without the hose attached to a spray gun. Hose can whip, causing striking injuries and spray can penetrate skin and cause serious injury.**

**High pressure fluid can inject under skin resulting in serious injury, including amputation. do not direct spray at people or animals. do not operate unit above pressure rating or 60°C (inlet water temperature). This increases the risk of injury, including burns, and damage to the unit. One person must control the unit process and water flow.**

**Always use appropriate personal protective equipment while handling and using high pressure cleaning equipment. Appropriate personal protective equipment always includes safety glasses and gloves, and may also include equipment such as latex or rubber gloves, face shields, goggles, protective clothing, respirators, and steel toed footwear.**

**Follow operating instructions to reduce the risk of injury from whipping hoses, high pressure liquid injection, carbon monoxide and other causes.**

1. Make sure that machine and work area is properly set up and that the work area is free of bystanders and other distractions. If the unit is located remotely from the point of use, another person may be located at the unit.
2. Attach the gun to the high pressure hose via coupling system.
3. Attach the hose to the high pressure pump/valve/facia outlet.
4. Turn the battery isolator switch ON (Figure 6) and confirm the Emergency stop button is in the out position (rotate button clockwise).

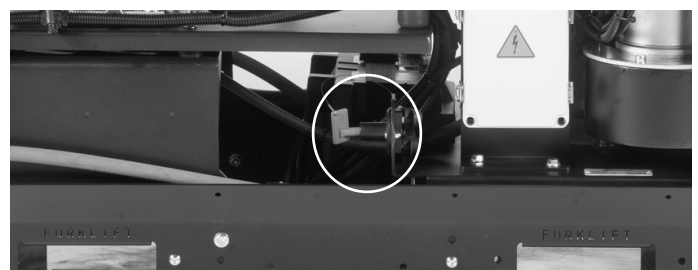


Figure.6 - Explorer G2 Battery Isolator



5. Confirm that the water supply is attached and turned on to low pressure pump/facia inlet. Never start the engine without the water supply turned ON. This can damage the pump.
6. With the wand pointed in a safe direction, squeeze the wash wand trigger to reduce pressure and allow the engine to be started. Following the starting instructions supplied in the engine manual, start the engine. Apply choke or decamp before starting (If Applicable). Allow the engine to warm up. Set the throttle to the full open position (If Applicable). Release the trigger soon after the engine starts.
7. (iGX Engine Only): the Honda iG390 is an auto throttle engine. Engine will automatically idle down the revs when off the trigger on the gun and will automatically rev up when you press trigger on the gun.
8. Hot water burner operation: Press burner button (will illuminate orange). Adjust thermostat dial to desired working temperature, please note that once the gun trigger is pulled the burner system will incur a delay in startup (this is a protection feature) wait approx. 1 (one) minute for burner system to engage and begin to produce hot water from the nozzle.
9. Wash Wand Lock Out – the wash wand includes a lock out on the back of the trigger. Flip the lock out down to prevent the operation of the trigger when the wash wand is not in use.

If the unit will not generate the rated pressure or is erratic

- Make sure the engine throttle is properly adjusted to the full open position.
- Turn unloader valve clockwise to increase pressure. Do not force.
- Inspect system for leaks. Use caution during inspection to prevent injury. If leaks are found, shut unit OFF before fixing.
- Ensure the front part lance with nozzle is connected.
- Turn the unit OFF. Check the inlet hose and filter and make sure that they clear of debris.
- Make sure there is adequate water flow to the unit.
- Turn the unit OFF. Remove the nozzle and clean the orifices with the nozzle cleaning tool.
- Ensure correct nozzle orifice size is used and no signs of excessive wear are evident.
- Activate trigger and run the unit to remove air or debris from the system. Turn the unit OFF before removing or attaching the lance/nozzle.
- Assume a proper operating position.
- Be sure you can control the ON/OFF action of a water control valve. In case of emergency you must be able to turn off water flow.
- Be sure that you have good balance and do not have to overreach.

- You must be able to place one hand on the gun at all times to control and support the lance.

This operating position will help to maintain control of the gun and lance.

### Pressure Washer Operator Specifics

1. When using as a pressure washer use both hands to grip and direct the wash wand for greater control. Never direct the wash wand at people. High pressure fluid can inject under skin resulting in serious injury. Never direct wash wand at electrical equipment or wiring to reduce the risk of electrical shock.
2. Caution when hot water is in operation hoses fittings and lances become hot, take relevant measures to prevent burns and any injuries e.g hose sleeves and appropriate PPE.
3. Control the flow of water with the trigger. Use care when using the pressure washer. Holding the nozzle too close to a surface can damage it. Test a small, inconspicuous area to confirm the settings work as desired.
4. Do not allow the unit to run for extended periods of time with the trigger OFF. When the trigger is OFF, water recirculates and it causes the water to heat up and heat the pump up, a safety relive valve is fitted to dump hot water if it gets too hot. (Bypass tank can help bypass and cool the water.)

### Machine Shut Down Procedure

1. When high pressure cleaning task is complete, release high pressure trigger and return to the unit controls with gun and spray lance.
2. Dial the thermostat to 0° C / off position. Proceed to press burner button to off position.
3. Burner cool down procedure: Continue to spray gun at ground to allow water through the system until front part of metal lance can be touched safely, without risk of burning the operator.
4. Idle down unit RPMs via throttle control (if applicable)
5. Proceed to power down the engine via kill switch or key switch (if applicable). Refer to engine operator manual.
6. Turn water supply OFF.
7. Release system back pressure by pressing the trigger on the spray gun (if applicable).
8. Disconnect high and low pressure hoses and coil the assembly for safety and proper storage.

## Transportation and Storage

1. Turn off the fuel valve (if applicable) and the battery isolation switch.
2. Drain water from unit as needed.
3. Coil hoses and secure equipment appropriately. All loose material must be removed. Transport remote reel separate from unit.
4. Unit may be equipped with wheels to allow transport over smooth level surfaces.
5. Unit weighs 280kg (approx.) Use appropriate equipment and methods to load and transport.

## Maintenance Instructions

### **⚠ WARNING**

**Before performing any maintenance, engine switch battery isolation switch should be in OFF position and spark plug wires should be disconnected to prevent inadvertent operation. Open water control valve to release any fluid pressure in system.**

**Always wear safety glasses and gloves when performing any maintenance to help protect against drain chemicals and bacteria.**

### Cleaning

The hose should be cleaned as needed with hot, soapy water and/or disinfectants. Do not allow water to enter the engine or electrical system. Do not clean with pressure washer. Wipe the unit down with a damp cloth.

### Engine

**Maintain the engine as directed in the engine operator's manual** supplied with the unit.

### Battery

To change battery (if applicable)

1. Unclip strap (if applicable) holding battery box top on, remove top.
2. Disconnect ground (-) cable connection first, followed by positive (+) cable connection.
3. Remove battery.
4. Reverse procedure to install.

Replacement batteries should have the following specifications:

- BCI Group/Type: U1
- Size (L x W x H): 196 x 128 x 159 (mm)
- Voltage: 12
- Cold Cranking Amps (CCA): 350

- Reserve Capacity (RC): 45
- Terminal Type: Offset Lug Terminal (OLT)
- Assembly Type: C
- Max Charging Volt: 14.8

### Pump Lubrication/Maintenance

Check the pump oil level prior to each use. Place the unit on a level surface. Wipe any dirt and debris from the area of the dipstick and sight-glass. Oil level should be at the middle of the sight-glass (Figure 16). If needed, remove the dipstick and add SAE 15W-40 Mineral non-detergent oil, fill to half-way on the sight-glass. Do not overfill, reinstall dipstick.

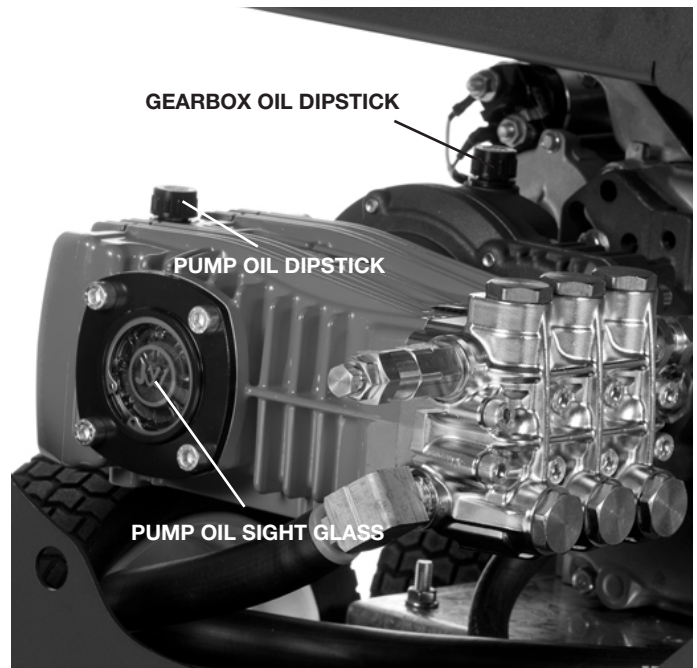


Figure.7 - Checking Pump and Gearbox Oil Level

Change oil in pump after first 50 hours of operation and every 250 hours of operation after that. With the pump warm from operation, remove plug on bottom of pump and drain oil into suitable container. Replace plug. Fill to approximately half-way on the sight-glass with SAE 15W-40 Mineral non-detergent oil using the checking procedure. Approximately 1000 ml of oil are required to change the pump oil.

At 1000 hours of use (less in severe use conditions) the unit should be taken to a Jetwave Independent Service Center for pump seal and valve service.

### **Gearbox Lubrication**

Check the gearbox oil level prior to each use. Place the unit on a level surface. Wipe any dirt and debris from the area of the dipstick and sight-glass (Figure 16). Oil level should be at the middle of the sight-glass. If needed, remove the dipstick and add SAE 85W-140 gear lubricant oil, fill to half-way on the sight-glass. Do not overfill, reinstall dipstick.

Change oil in gearbox every 500 hours of operation. With the gearbox warm from operation, remove plug on bottom of gearbox and drain oil into suitable container. Replace plug. Fill to half-way on the sight-glass with SAE 85W-140 gear lubricant oil. Approximately 300 ml of oil are required to change the gearbox oil.

### **Preparing Pump for Cold Weather Storage**

If the unit will be stored under conditions where the temperature is near or below 0°C, the unit must be properly prepared. If water freezes in the pump, it can damage it.

After the tank is drained (if applicable), remove the hose from the water inlet filter. Open all valves in the system and use compressed air to force any water out of the system. This can also be used to remove water from the hoses.

### **Machine Storage**

Store the unit in a well ventilated area protected from the weather elements. Keep the machine in a locked area that is out of reach of children and people unfamiliar with High Pressure Cleaners. This machine can cause serious injury in the hands of untrained users. See Maintenance section for information on cold weather storage. See engine operator's manual for specific information on engine storage.

## **Service And Repair**

### **⚠ WARNING**

**Improper service or repair can make machine unsafe to operate.**

The "Maintenance Instructions" will take care of most of the service needs of this machine. Any problems not addressed by this section should only be handled by an authorized Jetwave service technician.

Unit should be taken to a Jetwave Independent Service Center or returned to the factory.

For information on your nearest Jetwave Independent Service Center or any service or repair questions:

- Contact your local Jetwave distributor.
- Visit [jetwavegroup.com.au/find-a-dealer/](http://jetwavegroup.com.au/find-a-dealer/) to find your local Jetwave contact point.
- Contact Jetwave Technical Service Department at [service@jetwave.com.au](mailto:service@jetwave.com.au) or call (08) 8371 3599

### **Disposal**

Parts of the unit contain valuable materials and can be recycled. There are companies that specialize in recycling that may be found locally. Dispose of the components in compliance with all applicable regulations. Contact your local waste management authority for more information.

## Trouble Shooting

<b>FAULT</b>	<b>CAUSE</b>	<b>SOLUTION</b>
<b>Pump runs normally but pressure does not achieve rated value.</b>	Pump is sucking air. Valves are worn or dirty. Unloader valve packing worn. Nozzle incorrect or worn. Worn piston packing. Dirty inlet filter.	Check that all hoses and fittings are airtight. Check, clean or replace. Check and replace. Check and replace. Check and replace. Check and clean.
<b>Fluctuating pressure.</b>	Valves dirty, worn or stuck. Pump sucking air. Worn piston packing. Dirty filter.	Check, clean or replace. Check that all hoses and fittings are airtight. Check and replace. Check and clean.
<b>Presence of water in oil.</b>	High humidity in air. Piston packing or oil seal worn. Water entering through breather.	Check and change oil twice as often. Check and replace.
<b>Water dripping from pump.</b>	Piston packing worn. Piston guide o-rings worn.	Check and replace. Check and replace.
<b>Dripping oil.</b>	Worn oil seals. Oil coming out of breather.	Check and replace. Pump oil level overfull.
<b>Motor does not start when switched on</b>	Plug not well connected or unreliable power supply. Earth leakage overload.	Check plug, cable and switch.  Check earth leakage.
<b>Will not product hot water</b>	Burner switch in 'off' position Burner switch on but pump switch off Inadequate fuel supply Plugged fuel filter Trigger gun not pulled on Thermostat turned off	Turn burner switch on Turn on pump switch Fill tank with diesel Replace fuel filter Pull trigger gun (water flow must go through coil) Turn thermostat dial to on position
<b>No chemical flow</b>	Detergent valve closed Low detergent level Chemical screen dirty	Open detergent valve Fill detergent container Clean detergent screen
<b>Burner not igniting</b>	No fuel Burner switch turned off Thermostat set too low Clogged fuel filter Defective pressure switch Clogged burner nozzle Fuel pump malfunction Improper electrode setting	Fill fuel tank with proper fuel Furn burner switch on Reset thermostat Replace fuel filter Replace pressure switch Replace burner nozzle Replace fuel pump Clean/reset to specifications
<b>Excessive burner smoke</b>	Improper fuel being used Water contamination in fuel Improper air band adjustment Low fuel pressure Air leaks in fuel lines Scoot on coils/burner assembly Misaligned electrodes Dirty burner nozzle	Use diesel Drain fuel and replace with new Readjust air band/altitude Adjust to specifications Check for air leaks or bubbles Clean coil/burner assembly Realign to specifications Clean or replace burner nozzle

**Maintenance Log**

<b>Hour Meter Reading</b>	<b>Date</b>	<b>Maintenance Performed</b>	<b>Service Agent</b>

# Notes

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

# Notes

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

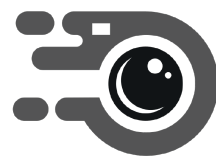
---

---

---

---

---



**SEWER CAMERAS AUSTRALIA**  
**1300 660 358**