

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

JETWAVE

HIGH PRESSURE CLEANERS

HORNET™ G2

HIGH PRESSURE WATER CLEANER



Cold Water



Petrol or
Diesel Driven

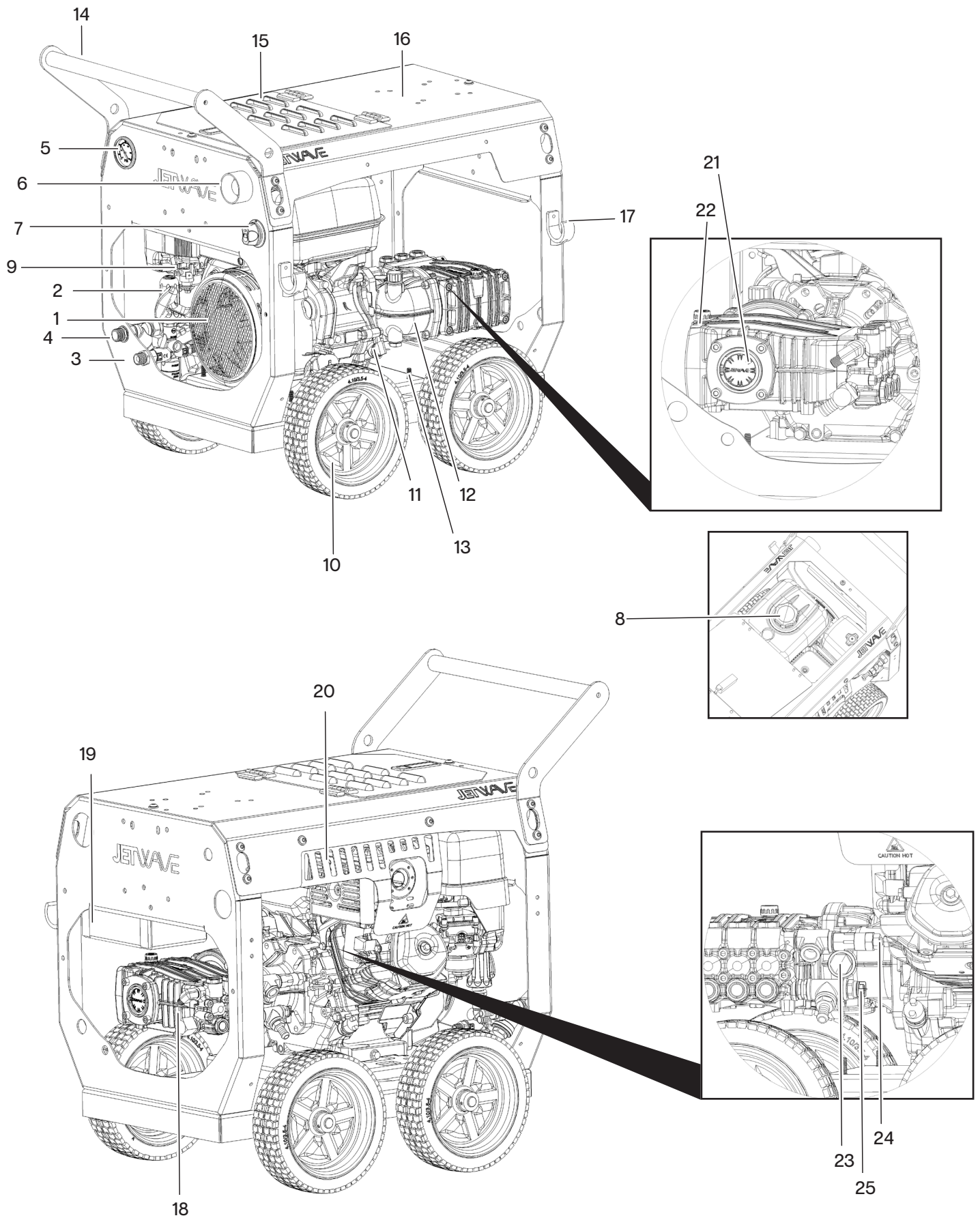
Register Your Product



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

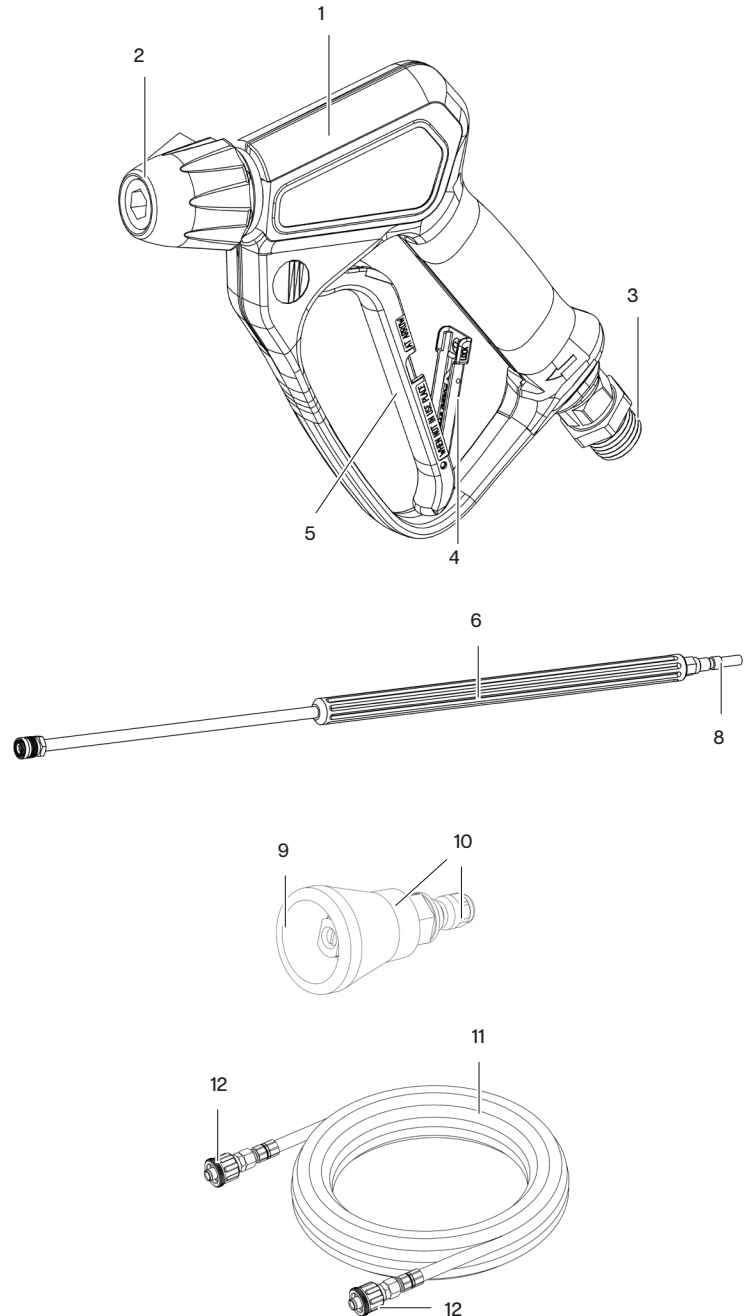
UNIT SERIAL NO.	
ENGINE SERIAL NO.	
PURCHASE DATE	





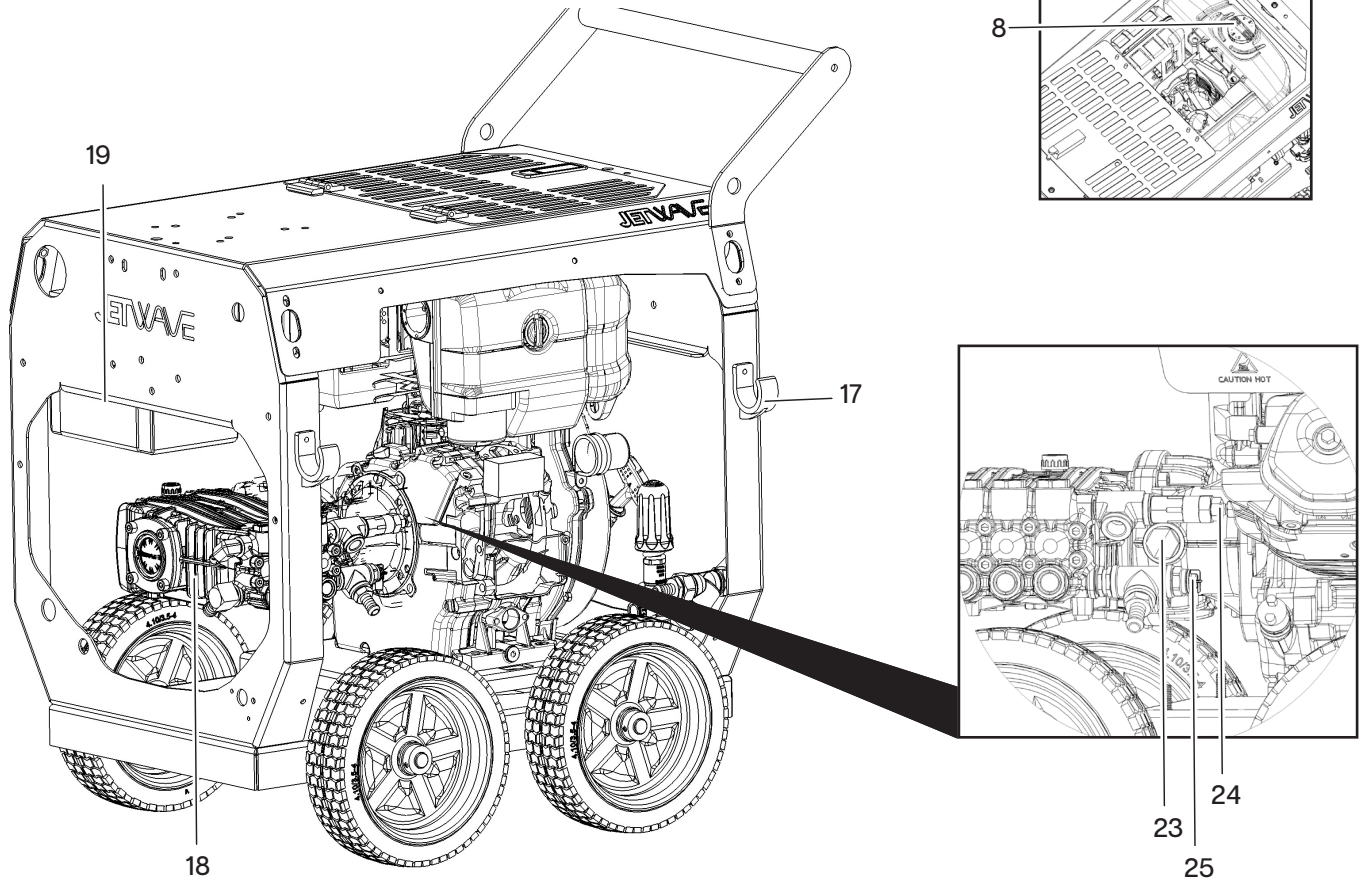
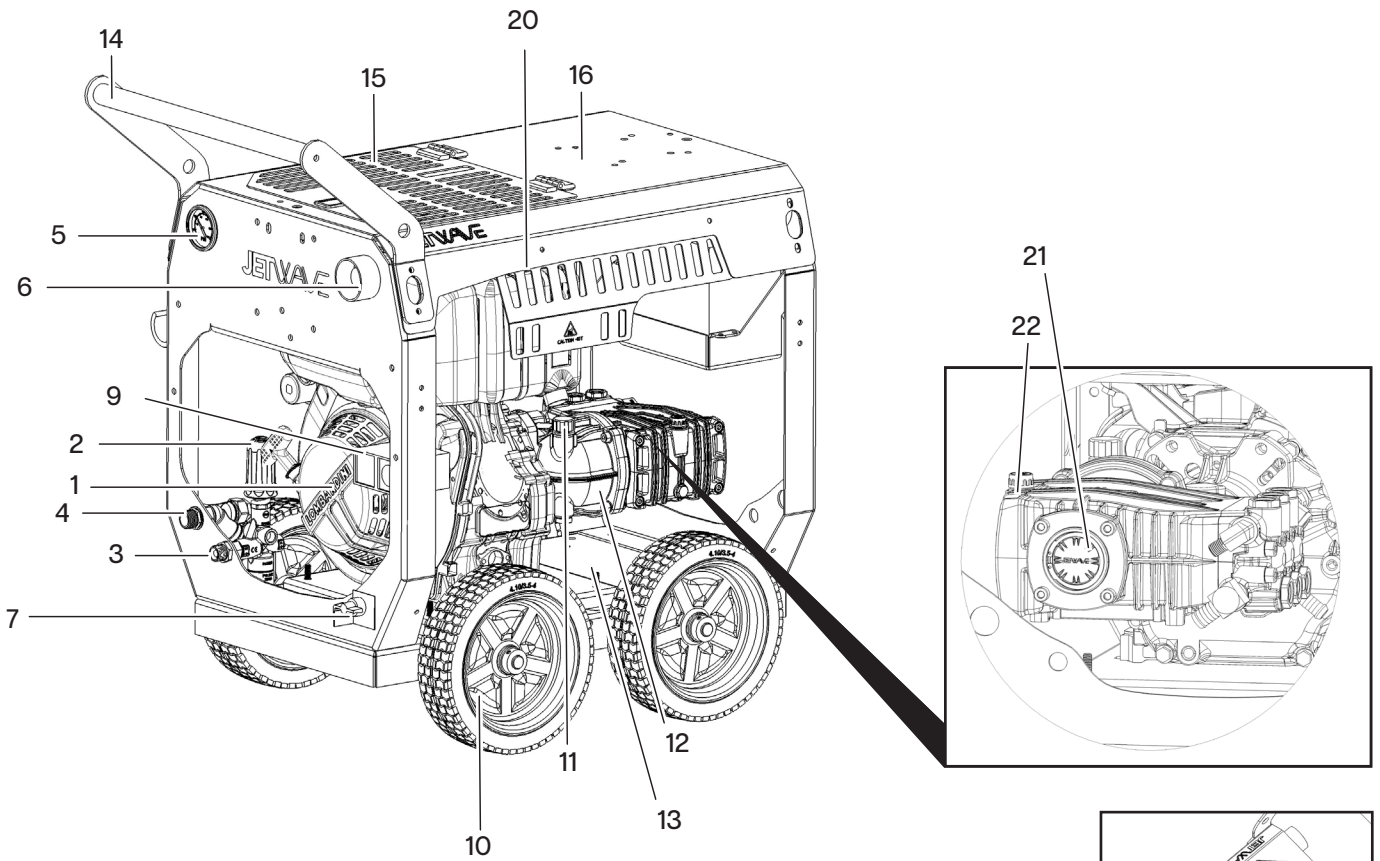
Hornet G2

1. Engine
2. Unloader Valve
3. High Pressure Outlet (connection to hose coupling)
4. Low Pressure Inlet (for tap connection)
5. Pressure Gauge
6. Emergency Stop
7. Battery Isolator iGX & QXE Only
8. Fuel Fill Point
9. Engine Controls
10. Trolley Kit Wheels
11. Engine Oil Dipstick
12. Gearbox
13. Anti-Vibration Plate
14. Trolley Handle
15. Latch Access to fuel tank
16. Hose Reel Mounting Holes
17. Accessory holder
18. Triplex Pump
19. Battery (iGX & QXE Only)
20. Heat Shield
21. Pump Oil Siteglass
22. Pump Oil Dipstick
23. Gearbox oil siteglass
24. Safety valve
25. Thermal valve



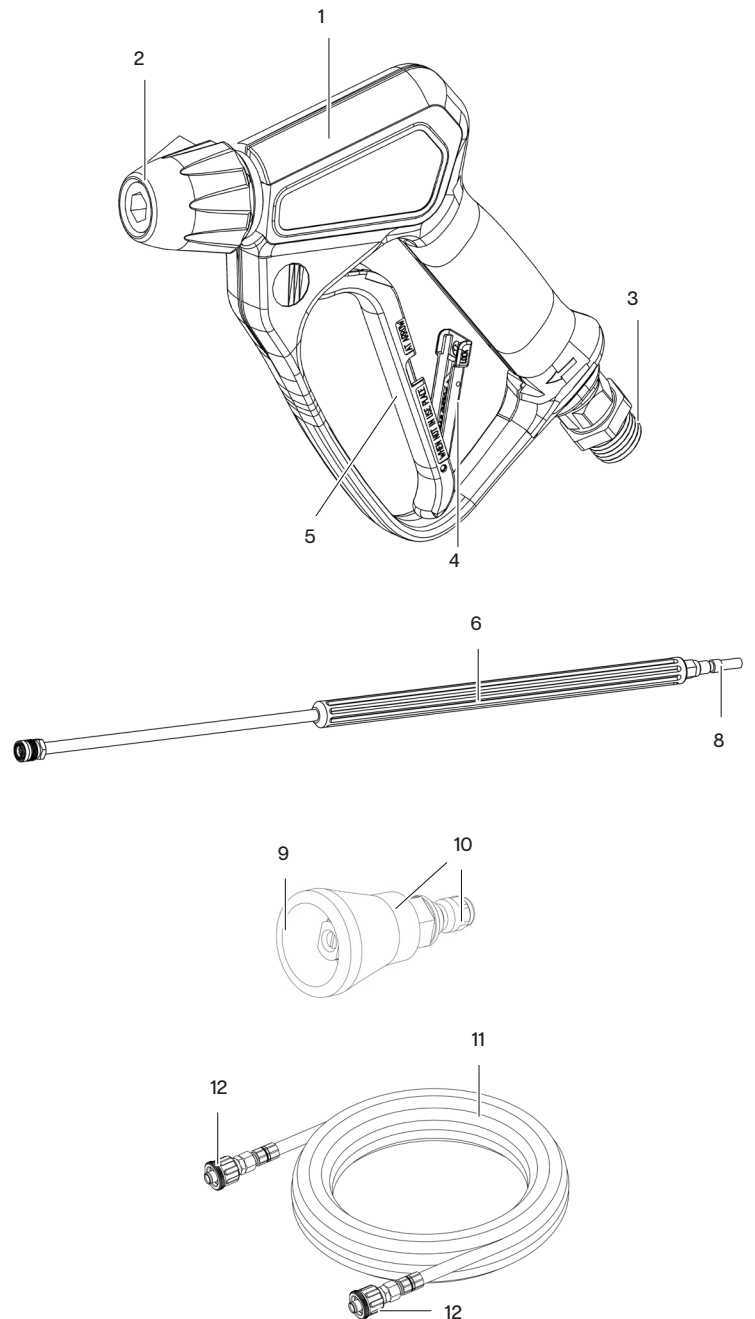
Standard Equipment

1. J5500K High Pressure Spray Gun
2. J5500K Quick Front Lance Coupling
3. High Pressure Hose Connection
4. Gun Lock Out
5. J5500K LTF Spray Gun Trigger
6. JW Lance with insulation
7. 1/4" Snap Coupling
8. Lance Connection Tail
9. High Pressure Stainless Steel Nozzle
10. 1/4" Snap Tail and Nozzle Protector
11. High Pressure Hose assembly
12. Screw coupling connectors



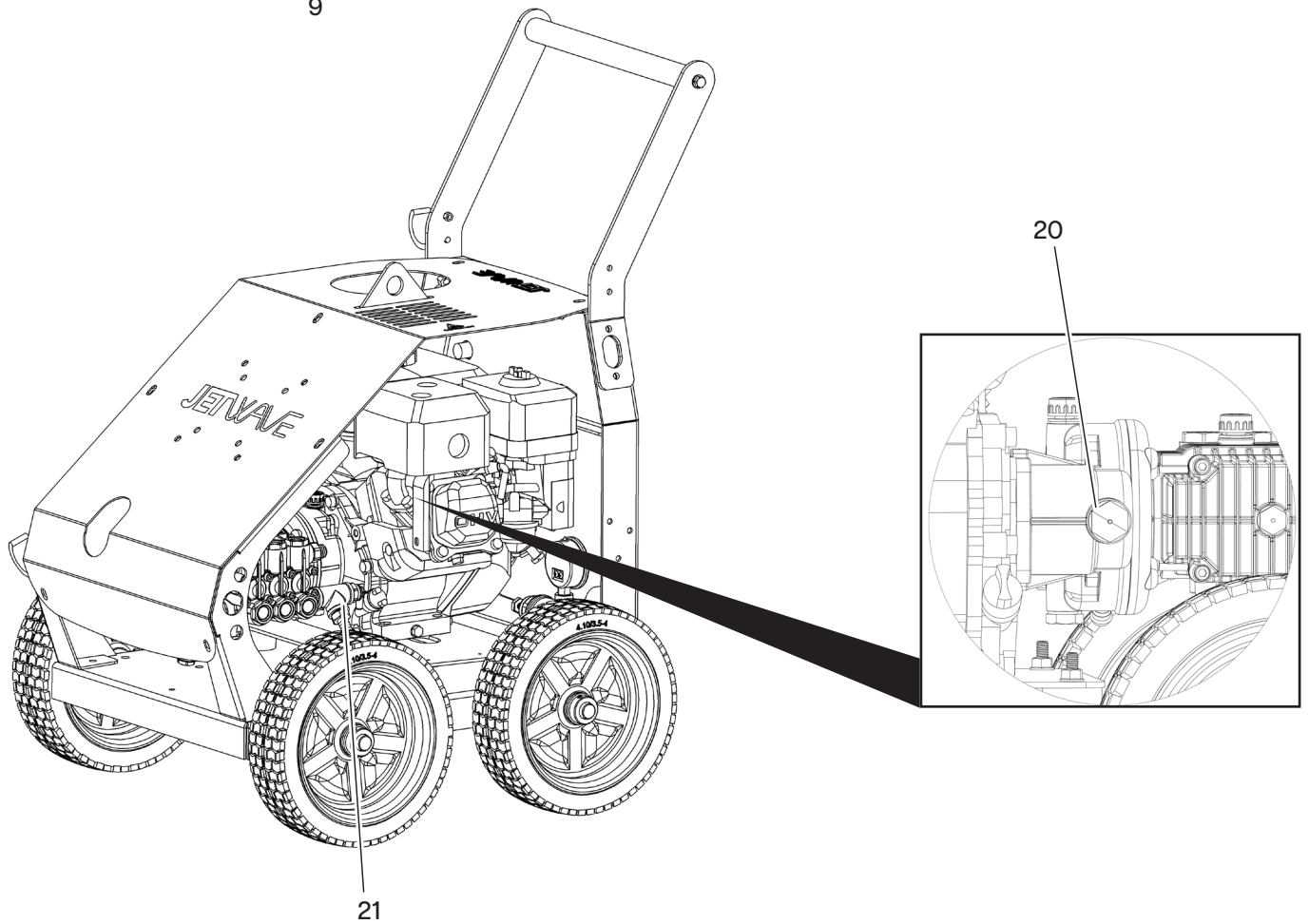
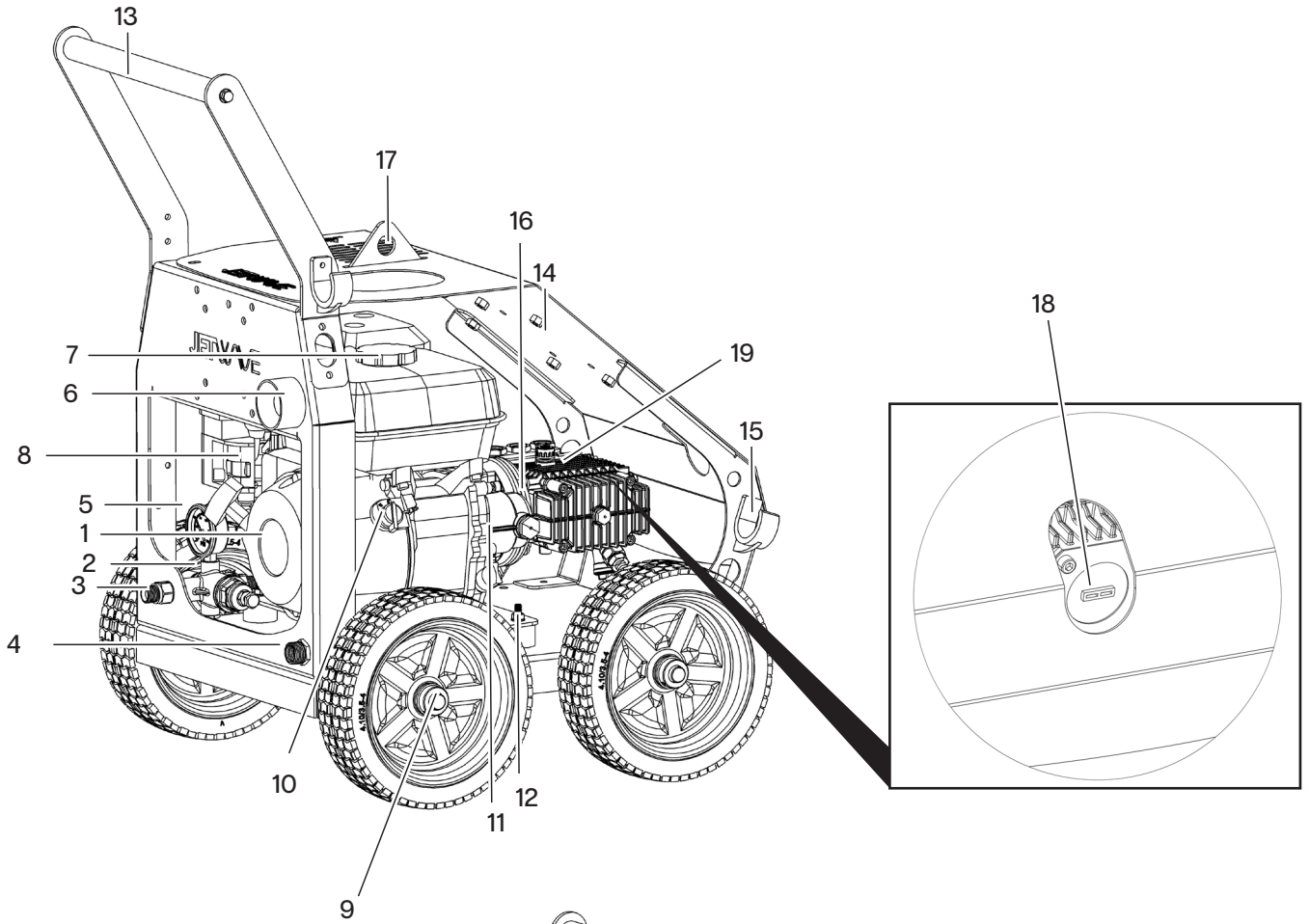
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14. Trolley Handle
15. Latch Access to fuel tank
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18. Triplex Pump
19. Battery
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22. Pump Oil Dipstick
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25. Thermal valve



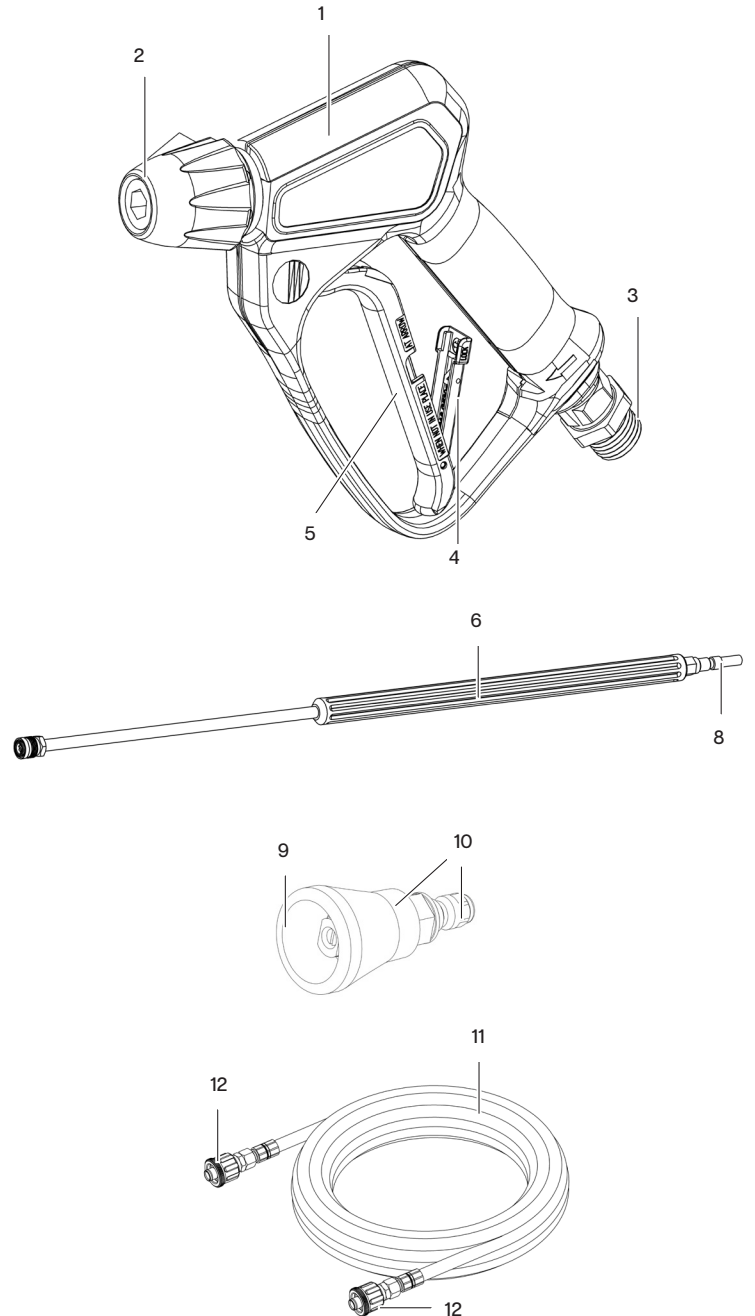
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3. High Pressure Hose Connection
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8. Lance Connection Tail
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10. 1/4" Snap Tail and Nozzle Protector
11. High Pressure Hose assembly
12. Screw coupling connectors



Hornet G2 Jnr

1. Engine
2. Unloader Valve
3. High Pressure Outlet (connection to hose coupling)
4. Low Pressure Inlet (for tap connection)
5. Pressure Gauge
6. Emergency Stop
7. Fuel Fill Point
8. Engine Controls
9. Trolley Kit Wheels
10. Engine Oil Dipstick
11. Gearbox
12. Anti-Vibration Plate
13. Trolley Handle
14. Hose Reel Mounting Holes
15. Accessory holder
16. Triplex Pump
17. Top Lift Point
18. Pump Oil Site glass
19. Pump Oil Dipstick
20. Gearbox oil site glass
21. Safety valve
22. Thermal valve



Standard Equipment

1. J5500K High Pressure Spray Gun
2. J5500K Quick Front Lance Coupling
3. High Pressure Hose Connection
4. Gun Lock Out
5. J5500K LTF Spray Gun Trigger
6. JW Lance with insulation
7. 1/4" Snap Coupling
8. Lance Connection Tail
9. High Pressure Stainless Steel Nozzle
10. 1/4" Snap Tail and Nozzle Protector
11. High Pressure Hose assembly
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*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**
- ⚠ WARNING**
- ⚠ CAUTION**
- NOTICE**

indicates a hazardous situation which, if not avoided, will result in death or serious injury.
indicates a hazardous situation which, if not avoided, could result in death or serious injury.
indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
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 according to applicable regulations the machine must not be connected to a drinking/potable water supply without a system separator per EN 12729 Type BA. Water flowing through a system separator is considered non drinkable



This symbol indicates that high pressure jets can be dangerous if improperly used the jet must not be directed at persons animals, live electrical equipment or at the appliance itself.



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



This symbol indicates the risk of breathing carbon monoxide and causing nausea, fainting or death. Risk of poisoning do not breathe in exhaust fumes.



This symbol indicates the risk of loud noises from the machine, causing a risk to hearing impairment, always use proper ear protection, while working with the machine.



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.



These symbols indicate a risk of burns and hot surfaces, be aware of hot components.

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 to find your local Jetwave contact point.

Description, Specifications and Standard equipment

Description




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



Figure.1 - Machine Serial Number Example



Figure.2 - Hornet G2D Cold Water Petrol High Pressure Cleaner

  	
Model	Hornet™ G2D 280-13
Motor	KOHLER™ KD15-440
Power	10.1HP / 7.4kW
Max Pressure (P)	280 BAR / 4060 PSI / 28 MPa
Max Flow Rate (Q)	13 L/PM / 2.5 GPM
Max Inlet Temperature (T)	50°C / 122°F
Pump	JW DODOR™ Triplex Plunger
Pump RPM	1450 RPM
Inlet Pressure Min / Max	4-10 BAR / 58-145 PSI / 0.4-1 MPa
Nozzle Size	035
Weight	102 KG / 224 lbs
Manufacture Year	2023


Jetwave Group Pty Ltd
10-16 Smith Street, Thebarton 5031 SA Australia 

Figure.3 - Hornet G2 Data Plate Example

Standard equipment

A Jetwave Hornet™ G2 High Pressure Cleaner comes with:

- High Pressure JW Gun
- Straight single JW Lance
- 15m of DWB 3/8" high pressure hose
- JW Easy Foamer
- Engine Operator's Manual
- Operator's Manual
- Trolley Kit
- (Optional) Hose Reel

See the Jetwave® catalog for specific equipment supplied with each catalog number.

The machine serial number is located on the frame. The first letter & digits indicate the year and month of the manufacture. (G = 2023 (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

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 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.

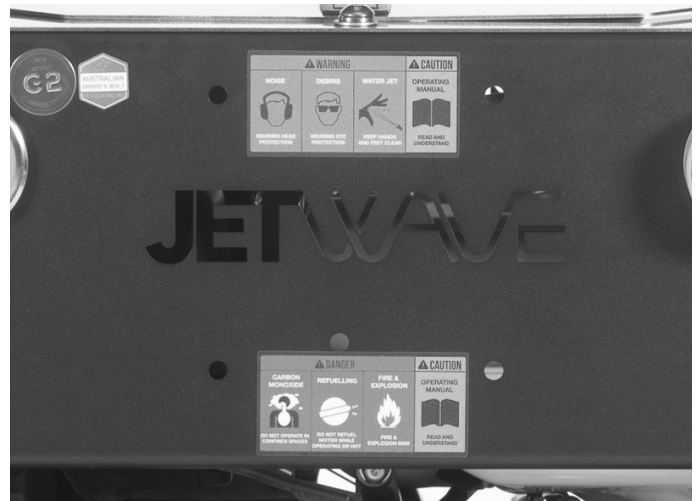


Figure.4 - Hornet Warning Labels

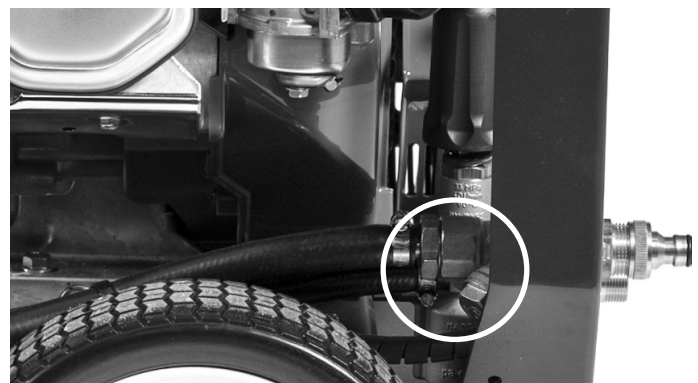


Figure.5 - Hornet G2 & G2D Water Filter

Clean water filter (Figure 6). Unscrew the brass cover from bottom of the filter and remove and clean the mesh filter. Dirt and debris can restrict the water flow to the pump and cause performance issues.

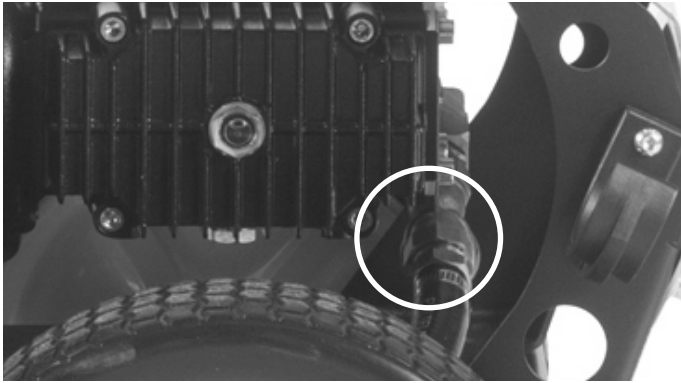


Figure.6 - Hornet G2 Jnr Water Filter

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 rating.
6. Inspect and maintain the engine per the engine operator's manual.
7. Check engine fuel level. If needed, add unleaded gasoline for Hornet G2 Petrol or add diesel for Hornet G2D. 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, do not overfill tank and do not spill fuel. Make sure tank cap is securely closed.
8. 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.

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 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



WARNING: This high pressure cleaner is only allowed to be connected with the drinking water mains, when an appropriate backflow preventer has been installed, as per AS/NZS 60335.2.79. Follow all local standards and regulations applicable to water connection.

According to the applicable regulation, the appliance must never be used on the drinking water supply without a system separator. Use a suitable system separator as per AS/NZS 60335.2.79. Water flowing through a system separator is considered non-drinkable

Run a hose from the water source to the unit water inlet. Use the largest diameter, shortest length hose possible. A 3/4" I.D. Inlet hose is the minimum recommended size.

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.

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.



Figure.7 - Hornet G2 Hose Reel Mounting

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.
2. Attach the gun to the high pressure hose via coupling system.
3. Attach the hose to the high pressure pump/valve outlet.
4. Turn the battery isolator switch ON (iGX or QXE models only) and confirm the Emergency stop button is in the out position (rotate button clockwise).

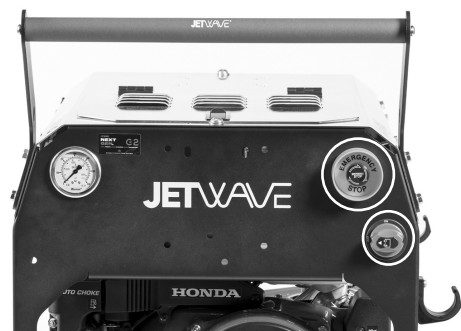
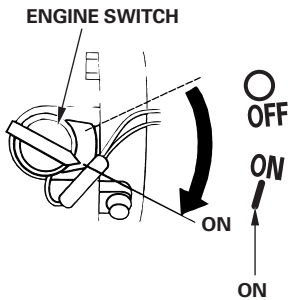


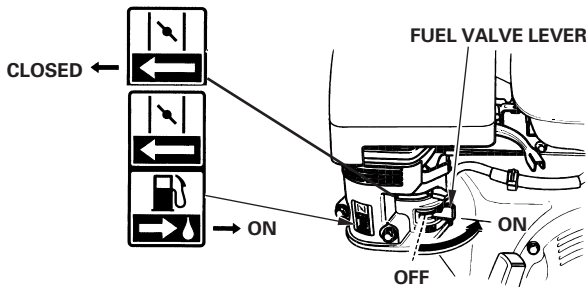
Figure.8 - Hornet G2 E-Stop & Battery Isolator

5. HONDA GX200 & GX390 STARTING (Pull Start)

6. Turn the unit ignition switch to the ON position.

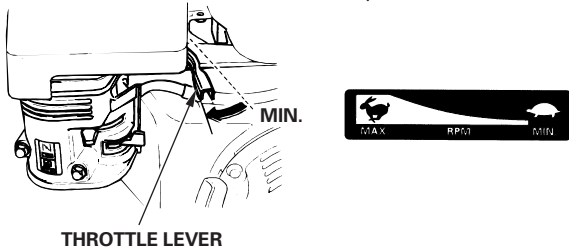


7. Move the fuel valve lever to the ON position

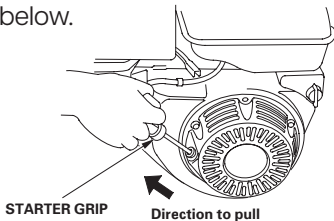


8. To cold start the engine, move the choke lever to the CLOSED position

9. Move the throttle level to the MAX position



10. Pull the starter grip lightly until you feel resistance, then pull briskly in the direction of the arrow as shown below.

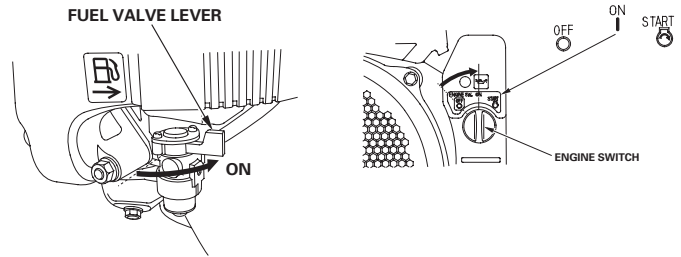


11. With the machine running proceed to press trigger on the gun to start pressure cleaning, Use care when using the pressure washer. Holding the nozzle too close to a surface can damage it. Test a small, inconspicuous area to confirm the settings work as desired. Never direct the wash wand at people. 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.

12. HONDA iGX390 or GX390QXE (Electric Key Start & Pull Start Backup)

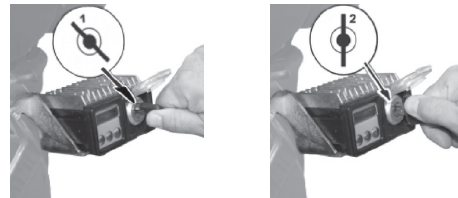
13. Move Fuel Valve to the ON position

14. Turn the engine switch to the ON position.



15. KOHLER KD15-440 (Electric Key Start & Pull Start Backup)

16. Turn the engine switch to the ON position.



(Note) Do not actuate starter for more than 20 seconds at a time. If engine does not start, wait 1 minute before repeating attempt.

Machine Shut Down Procedure

1. When high pressure cleaning task is complete, release high pressure trigger.
2. Return to the unit controls.
3. Idle down unit RPMs via throttle control (if applicable)
4. Proceed to power down the engine via kill switch or key switch (if applicable). Refer to engine operator manual.
5. Turn water supply OFF.
6. Turn fuel valve OFF on Honda Engines to ensure no fuel spillage in travel.
7. Disconnect high and low pressure hoses and coil the assembly for safety and proper storage.



High pressure outlet sticker



Low pressure inlet sticker

Hose Reel Brake Adjustment

The optional hose reel is equipped with an adjustable brake to prevent the hose from playing off the reel under its own weight. Tightening wingnut increases the drag on the reel, loosening decreases the drag. Adjust as desired. The brake only works in one direction (to resist hose moving off reel) (Figure 9).

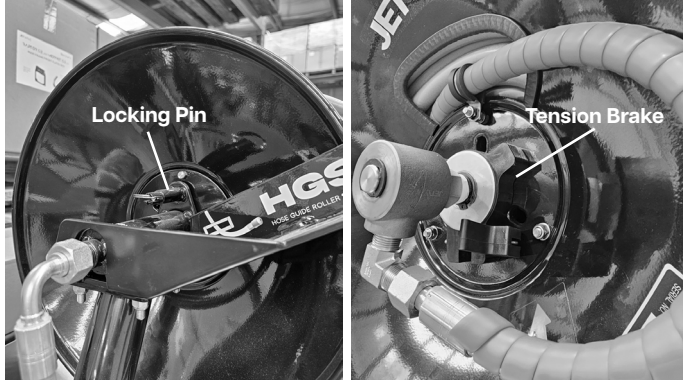


Figure.9 - Brake Adjustment & Locking Pin

Transportation and Storage

1. Turn off the fuel valve 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 is equipped with wheels to allow transport over smooth level surfaces.
5. Unit weighs 90 (approx. iGX Model) 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. An hour meter is included on the engine to monitor pressure cleaners use.

Battery

Safety notes regarding the battery

Please observe the following warning notes when handling batteries.



Observe the directions on the battery, in the instructions for use and in the vehicle operating instructions.



Wear an eye shield



Keep away children from acid and batteries.



Risk of explosion.



Fire, sparks, open light and smoking not allowed.



Danger of causticization



First aid.



Warning note.



Disposal.



Do not throw the battery into the bin.

Danger

Risk of explosion! Do not put tools on the battery, i.e. on the terminal poles and cell connectors.

Danger

Risk of injury! Ensure that wounds never come into contact with lead. Always clean your hands after having worked with batteries.

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.

Note: Before removing the battery, make sure the negative pole lead is disconnected. Check that the battery pole and pole terminals are adequately protected with pole grease.

Replacement batteries should have the following specifications:

- Size (L x W x H): 196 x 128 x 184 (mm)
- Voltage: 12v
- Cold Cranking Amps (CCA): 280
- 26 Ah
- Terminal Type: Standard - +
- Type: Maintenance Free

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 10). 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.

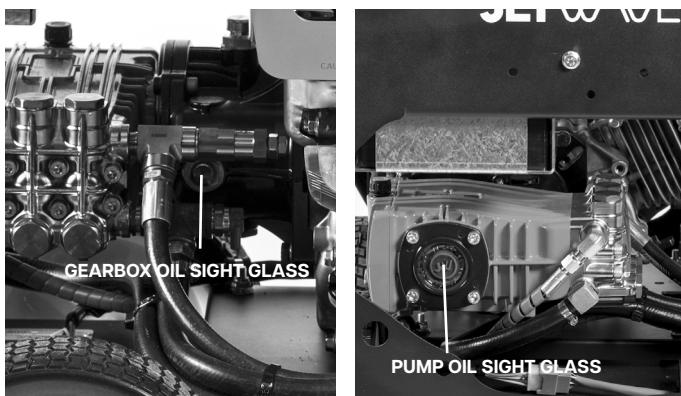
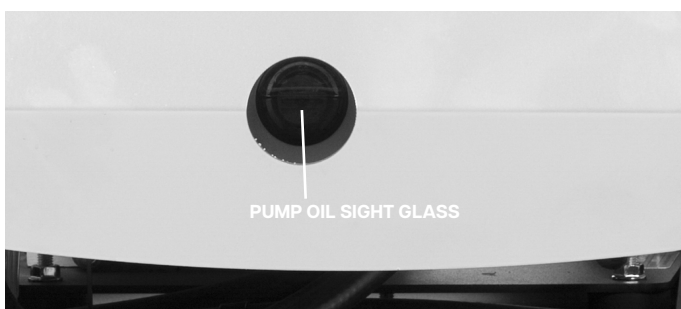


Figure.10 - Checking Pump and Gearbox Oil Level



Change oil in pump after first 20 hours of operation and every 250 hours of operation after that or every 6 months. 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.

At 1000 hours of use (less in severe use conditions) the Hornet G2 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 10). 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 250 hours of operation. With the gearbox warm from operation or every 6 months, 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.

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. Open all valves in the system and use compressed air to force any water out of the system also flush device with anti-freezing agent to prevent freezing during cold weather storage.

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.

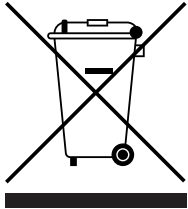
High Pressure Cleaner should be taken to a Jetwave Independent Service Center or returned to the factory.

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/ to find your local Jetwave contact point.
- Contact Jetwave Technical Service Department at service@jetwave.com.au or call (08) 8371 3599

Disposal / Environmental Protection

Parts of the High Pressure Cleaner 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.



Please do not release engine oil, pump & gearbox oil, diesel and petrol into the environment. Protect the ground and dispose of used oil in an environmentally-clean manner.



The packaging material can be recycled. Please do not throw the packaging material into household waste; please send it for recycling

Declaration of Conformity

We hereby declare that the machine described below complies with the relevant basic safety and health requirements of the EU Directives listed below, both in its basic design and construction as well as in the version put into circulation by us. This declaration shall cease to be valid if the machine is modified without our prior approval

Product: High pressure cleaner

Trade Name: Hornet G2

Relevant EU Directives

2006/42/EC

2000/14/EC

Relevant AS/NZS Directives

60335.5.2.79

4233.1:2013

4233.2:2013

Applied standards

EN 1829 -2

Applied conformity evaluation method

2000/14/EC: Appendix V

Sound power level dB(A)

Hornet G2

Measured: 105

Guaranteed: 107

The signatories act on behalf of and with the authority of the company management.



L. Seco
Business Director

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Type		Hornet G2 Jnr 200-11	Hornet G2 280-15	Hornet G2 QXE 280-15
		CW3000-11PG2	CW4000-15PG2	CW4000-15PEG2
Motor				
Honda Petrol		GX200, single cylinder, 4-stroke OHV	GX390, single cylinder, 4-stroke OHV	GX390, single cylinder, 4-stroke OHV
Maximum torque at 3600rpm	kW/HP	4.3 / 5.8	8.7 / 11.7	8.7 / 11.7
Operating Speed	RPM	3600	3600	3600
Fuel Tank	L	3.1	6.1	6.1
Fuel	Type	Petrol, unleaded	Petrol, unleaded	Petrol, unleaded
Battery	CCA, V, Ah	N/A	N/A	280 / 12 / 26
Starting System	Type	Recoil	Recoil	Electric Key Start / Back Up Recoil
Water Connection				
Max. feed temperature	°C / F	60 / 140	60 / 140	60 / 140
Min. feed volume	l/m (l/h)	13 / 780	17 / 1020	17 / 1020
Max. feed pressure	PSI (bar) MPa	101 / (7) / 0.7	101 / (7) / 0.7	101 / (7) / 0.7
Min. feed pressure	PSI (bar) MPa	4.35 / (0.3) / 0.03	4.35 / (0.3) / 0.03	4.35 / (0.3) / 0.03
Inlet hose diameter (min.)	Inch	3/4" / 19mm	3/4" / 19mm	3/4" / 19mm
Performance Data				
Working pressure	PSI / BAR / MPa	3000 / 200 / 20	4060 / 280 / 28	4060 / 280 / 28
Max. excess operating pressure (safety valve)	PSI / BAR / MPa	3500 / 250 / 25	4350 / 300 / 30	4350 / 300 / 30
Flow rate	l/m / l/h / gpm	11 / 660 / 3	15 / 900 / 4	15 / 900 / 4
Nozzle Size		03	04	04
Type of protection	IP	IPX5	IPX5	IPX5
Oil				
Pump oil quantity/type	mL	470 / 15W-40	470 / 15W-40	470 / 15W-40
Gear oil quantity/type	mL	220 / 80W-90	320 / 80W-90	320 / 80W-90
Engine oil quantity/type	mL	600 / 10W-30	1100 / 10W-30	1100 / 10W-30
Dimensions & Weight				
Length x width x height	mm	760 x 585 x 900	880 x 575 x 860	880 x 575 x 860
Typical operating weight	kg	65	86	90
Values Determined as per AS/NZS 60335.2.79				
Max reaction/recoil force of trigger gun	N	36	59	59
Hand spray gun	m/s ²	-	-	-
Spray lance	m/s ²	-	-	-
Uncertainty K	m/s ²	-	-	-
Sound pressure level L _{pa}	dB(A)	92	95	95
Uncertainty K _{pa}	dB(A)	3	3.9	3.9
Sound Power Level L _{wa} + Uncertainty K _{wa}	dB(A)	100	103	103

Type		Hornet G2 iGX 280-15	Hornet G2D 210-15	Hornet G2D 280-13
		CW4000-15PEIG2	CW3000-15DG2	CW4000-13DG2
Motor				
Honda Petrol or Kohler Diesel Engine		iGX390, single cylinder, 4-stroke OHV	KD15-440, single cylinder, 4-stroke	KD15-440, single cylinder, 4-stroke
Maximum torque at 3600rpm	kW/HP	8.7 / 11.7	7.4 / 10.1	7.4 / 10.1
Operating Speed	RPM	3600	3600	3600
Fuel Tank	L	6.1	4.3	4.3
Fuel	Type	Petrol, unleaded	Diesel	Diesel
Battery	CCA, V, Ah	280 / 12 / 26	280 / 12 / 26	280 / 12 / 26
Starting System	Type	Electric Key Start / Back Up Recoil	Electric Key Start / Back Up Recoil	Electric Key Start / Back Up Recoil
Water Connection				
Max. feed temperature	°C / F	60 / 140	60 / 140	60 / 140
Min. feed volume	l/m (l/h)	17 / 1020	17 / 1020	15 / 900
Max. feed pressure	PSI / (BAR) / MPa	101 / (7) / 0.7	101 / (7) / 0.7	101 / (7) / 0.7
Min. feed pressure	PSI / (BAR) / MPa	4.35 / (0.3) / 0.03	4.35 / (0.3) / 0.03	4.35 / (0.3) / 0.03
Inlet hose diameter (min.)	Inch / mm	3/4" / 19mm	3/4" / 19mm	3/4" / 19mm
Performance Data				
Working pressure	PSI / BAR / MPa	4060 / 280 / 28	3150 / 210 / 21	4060 / 280 / 28
Max. excess operating pressure (safety valve)	PSI / BAR / MPa	4350 / 300 / 30	3500 / 520 / 25	4350 / 300 / 30
Flow rate	l/m / l/h / gpm	15 / 900 / 4	15 / 900 / 4	15 / 900 / 3.5
Nozzle Size		04	035	04
Type of protection	IP	IPX5	IPX5	IPX5
Oil				
Pump oil quantity/type	mL	470 / 15W-40	470 / 15W-40	470 / 15W-40
Gear oil quantity/type	mL	320 / 80W-90	320 / 80W-90	320 / 80W-90
Engine oil quantity/type	mL	600 / 10W-30	1200 / 15W-40	1200 / 15W-40
Dimensions & Weight				
Length x width x height	mm	880 x 575 x 860	880 x 575 x 860	880 x 575 x 860
Typical operating weight	kg	90	102	102
Values Determined as per AS/NZS 60335.2.79				
Max reaction/recoil force of trigger gun	N	59	51	51
Hand spray gun	m/s ²	-	-	-
Spray lance	m/s ²	-	-	-
Uncertainty K	m/s ²	-	-	-
Sound pressure level L _{pa}	dB(A)	95	99	99
Uncertainty K _{pa}	dB(A)	3.9	3.9	3.9
Sound Power Level L _{wa} + Uncertainty K _{wa}	dB(A)	103	107	107

Type		Hornet G2 200-21	Hornet G2 QXE 200-21	Hornet G2 iGX 200-21
Code		CW3000-21PG2	CW3000-21PEG2	CW3000-21PEIG2
Motor				
Honda Petrol Engine		GX390, single cylinder, 4-stroke OHV	GX390, single cylinder, 4-stroke OHV	iGX390, single cylinder, 4-stroke OHV
Maximum torque at 3600rpm	kW/HP	8.7 / 11.7	8.7 / 11.7	8.7 / 11.7
Operating Speed	RPM	3600	3600	3600
Fuel Tank	L	6.1	6.1	6.1
Fuel	Type	Petrol, unleaded	Petrol, unleaded	Petrol, unleaded
Battery	CCA, V, Ah	N/A	280 / 12 / 26	280 / 12 / 26
Starting System	Type	Recoil	Electric Key Start / Back Up Recoil	Electric Key Start / Back Up Recoil
Water Connection				
Max. feed temperature	°C / F	60 / 140	60 / 140	60 / 140
Min. feed volume	l/m (l/h)	21 / 1260	21 / 1260	21 / 1260
Max. feed pressure	PSI / (BAR) / MPa	101 / (7) / 0.7	101 / (7) / 0.7	101 / (7) / 0.7
Min. feed pressure	PSI / (BAR) / MPa	4.35 / (0.3) / 0.03	4.35 / (0.3) / 0.03	4.35 / (0.3) / 0.03
Inlet hose diameter (min.)	Inch / mm	3/4" / 19mm	3/4" / 19mm	3/4" / 19mm
Performance Data				
Working pressure	PSI / BAR / MPa	3000 / 200 / 20	3000 / 200 / 20	3000 / 200 / 20
Max. excess operating pressure (safety valve)	PSI / BAR / MPa	3500 / 250 / 25	3500 / 250 / 25	3500 / 250 / 25
Flow rate	l/m / l/h / gpm	21 / 1260 / 5.5	21 / 1260 / 5.5	21 / 1260 / 5.5
Nozzle Size		06	06	06
Type of protection	IP	IPX5	IPX5	IPX5
Oil				
Pump oil quantity/type	mL	470 / 15W-40	470 / 15W-40	470 / 15W-40
Gear oil quantity/type	mL	320 / 80W-90	320 / 80W-90	320 / 80W-90
Engine oil quantity/type	mL	1100 / 10W-30	1100 / 10W-30	1100 / 10W-30
Dimensions & Weight				
Length x width x height	mm	880 x 575 x 860	880 x 575 x 860	880 x 575 x 860
Typical operating weight	kg	86	90	90
Values Determined as per AS/NZS 60335.2.79				
Max reaction/recoil force of trigger gun	N	69	69	69
Hand spray gun	m/s ²	-	-	-
Spray lance	m/s ²	-	-	-
Uncertainty K	m/s ²	-	-	-
Sound pressure level L _{pa}	dB(A)	95	95	95
Uncertainty K _{pa}	dB(A)	3.9	3.9	3.9
Sound Power Level L _{wa} + Uncertainty K _{wa}	dB(A)	103	103	103

Honda™ Petrol GX200 Engine Maintenance Schedule

Based on the 'Maintenance Schedule' in the Honda™ Engine Manual, always refer to the included manual for more in depth safety, maintenance and operation procedures of the engine.

Always use an approved Honda™ servicing agent who uses Genuine Honda parts in order to ensure full 3 year GX Honda warranty. Service records will need to be provided.

REGULAR SERVICE PERIOD²		Each Use	First Month or 20 Hrs	Every 3 Months or 50 Hrs	Every 6 Months or 100 Hrs	Every Year or 300 Hrs
Perform at every indicated month or operating hour interval, whichever comes first.						
ITEM						
Engine Oil	Check Level	○				
	Change		○		○	
Reduction Case Oil (applicable types)	Check Level	○				
	Change		○		○	
Air Cleaner	Check	○				
	Clean			○ ¹	○* ¹	
	Replace					○**
Sediment Cup	Clean				○	
Spark Plug	Check-Adjust				○	
	Replace					○
Spark arrester (applicable types)	Clean				○	
Idle Speed	Check-Adjust					○
Valve Clearance	Check-Adjust					○
Combustion Chamber	Clean	After Every 500 Hrs				
Fuel Tank & Filter	Clean				○	
Fuel Tube	Check	Every 2 years (Replace if necessary)				

*Internal vent carburetor with dual element type only. Cyclone type every 6 months or 150 hours

**Replace paper element type only. Cyclone type every 2 years or 600 hours

1. Service more frequently when used in dusty areas.
2. For commercial use, log hours of operation to determine proper maintenance intervals

Honda™ Petrol GX390 Engine Maintenance Schedule

Based on the ‘Maintenance Schedule’ in the Honda™ Engine Manual, always refer to the included manual for more in depth safety, maintenance and operation procedures of the engine.

Always use an approved Honda™ servicing agent who uses Genuine Honda parts in order to ensure full 3 year GX Honda warranty. Service records will need to be provided.

REGULAR SERVICE PERIOD²		Each Use	First Month or 20 Hrs	Every 3 Months or 50 Hrs	Every 6 Months or 100 Hrs	Every Year or 300 Hrs
Perform at every indicated month or operating hour interval, whichever comes first.						
ITEM						
Engine Oil	Check Level	○				
	Change		○		○	
Reduction Case Oil (applicable types)	Check Level	○				
	Change		○		○	
Air Cleaner	Check	○				
	Clean			○ ¹	○ ^{*1}	
	Replace					○ ^{**}
Sediment Cup	Clean				○	
Spark Plug	Check-Adjust				○	
	Replace					○
Spark arrester (applicable types)	Clean				○	
Idle Speed	Check-Adjust					○
Valve Clearance	Check-Adjust					○
Combustion Chamber	Clean	After Every 1000 Hrs				
Fuel Tank & Filter	Clean				○	
Fuel Tube	Check	Every 2 years (Replace if necessary)				

*Internal vent carburetor with dual element type only. Cyclone type every 6 months or 150 hours

**Replace paper element type only. Cyclone type every 2 years or 600 hours

1. Service more frequently when used in dusty areas.
2. For commercial use, log hours of operation to determine proper maintenance intervals

Honda™ Petrol iGX390 Engine Maintenance Schedule

Based on the 'Maintenance Schedule' in the Honda™ Engine Manual, always refer to the included manual for more in depth safety, maintenance and operation procedures of the engine.

Always use an approved Honda™ servicing agent who uses Genuine Honda parts in order to ensure full 3 year GX Honda warranty. Service records will need to be provided.

REGULAR SERVICE PERIOD²		Each Use	First Month or 20 Hrs	Every 3 Months or 50 Hrs	Every 6 Months or 100 Hrs	Every Year or 300 Hrs
Perform at every indicated month or operating hour interval, whichever comes first.						
ITEM						
Engine Oil	Check Level	○				
	Change		○		○	
Air Cleaner	Check	○				
	Clean			○ ¹		
	Replace					○ ^{**}
Sediment Cup	Clean				○	
Spark Plug	Check-Adjust				○	
	Replace					○
Spark arrester (applicable types)	Check-clean				○	
Valve Clearance	Check-Adjust					○
Combustion Chamber	Clean	After Every 1000 Hrs				
Fuel Tank & Filter	Clean				○	
Fuel Tube	Check	Every 2 years (Replace if necessary)				

**Replace paper element type only.

1. Service more frequently when used in dusty areas.
2. For commercial use, log hours of operation to determine proper maintenance intervals

Kohler™ KD15-440 Diesel Air Cooled Engine Maintenance Schedule

Based on the Maintenance section in the Kohler™ Engine Manual, always refer to the included manual for more in depth safety, maintenance and operation procedures of the engine.

Always use an approved Kohler™ servicing agent who uses Genuine Kohler parts in order to ensure full warranty coverage. Service records will need to be provided.

OPERATION DESCRIPTION	FIRST 50 WORKING HOURS
Engine oil replacement	
Oil filter replacement	

OPERATION	OPERATION DESCRIPTION	FREQUENCY x HOURS			
		10	50	250*	500**
Check	Sump oil level	○			
	Dry air cleaner	○			
Cleaning	Tank	○			
	Cooling fins				○
	Oil bath cleaner	○			○
Replacement	Oil Carter		○		
	Oil Filter		○		
	Oil sump in engines with enhanced oil sump	***			○
	Fuel filter				○
	Dry air cleaner			○	○
Overhaul	Setting rocker arms clearance KD_225-350				○
	Setting and injectors cleaning				○

*In case of low use: every 6 months

**In case of low use: every year

***If you are using oil of a quality lower then the recommends one then you will haver to replace it every 150 hours

Jetwave™ High Pressure Cleaner & Water Jetting System Maintenance Schedule

Refer to the included manual for your high pressure cleaner or water jetting system for safety, pre-inspection, operation, shutdown and more procedures.

Always use an approved Jetwave™ servicing agent who uses Genuine Jetwave parts, to ensure full warranty coverage, service records will need to be provided.

		USER	SERVICE AGENT			
REGULAR SERVICE PERIOD ¹		Each Use	First 20 Hrs or First Month	Every 250 Hrs or 6 Months	Every 500 Hrs or 6 Months	Every 1000 Hrs or 1 Year
Perform at every indicated month or operating hour interval, whichever comes first.						
ITEM						
Pump	Check Oil Level	○				
	Replace Oil		○	○		
Pump Seal Kit² (If Leaking or down on pressure)	Replace				○	
Pump Valve Kit² (If down on pressure)	Replace				○	
Pump Conrods	Re-tension		○			○
Reduction Gearbox	Check Oil Level	○				
	Replace Oil		○	○		
Engine Key Way Shaft	Replace				○	
Inlet Water Filter² (Check for build up of debris)	Check/Clean	○				
	Replace				○	
Unloader Valve (Check for leaks & function)	Check		○	○		
	Replace				○	
Safety Valve (Check setting and check for leaks)	Check		○	○		
	Replace				○	
Hoses (Check for leaks)	Check	○				
	Replace				○	
Gun & Lance (Check for leaks)	Check	○				
	Replace				○	
High Pressure Nozzle (Check for blockage)	Check	○				
	Replace			○		
Couplings & O-Rings (If Leaking or as needed)	Check	○				
	Replace				○	
Fuel Tank Level	Check Fuel Level	○				
Electrical Connections (Check for loose connections)	Check	○	○		○	
Battery (Check for loose connections)	Check	○				
	Replace					○

1. For commercial use, log hours of operation to determine proper maintenance intervals, The time indication for checks and replacement listed above, for units subject to normal operating conditions.

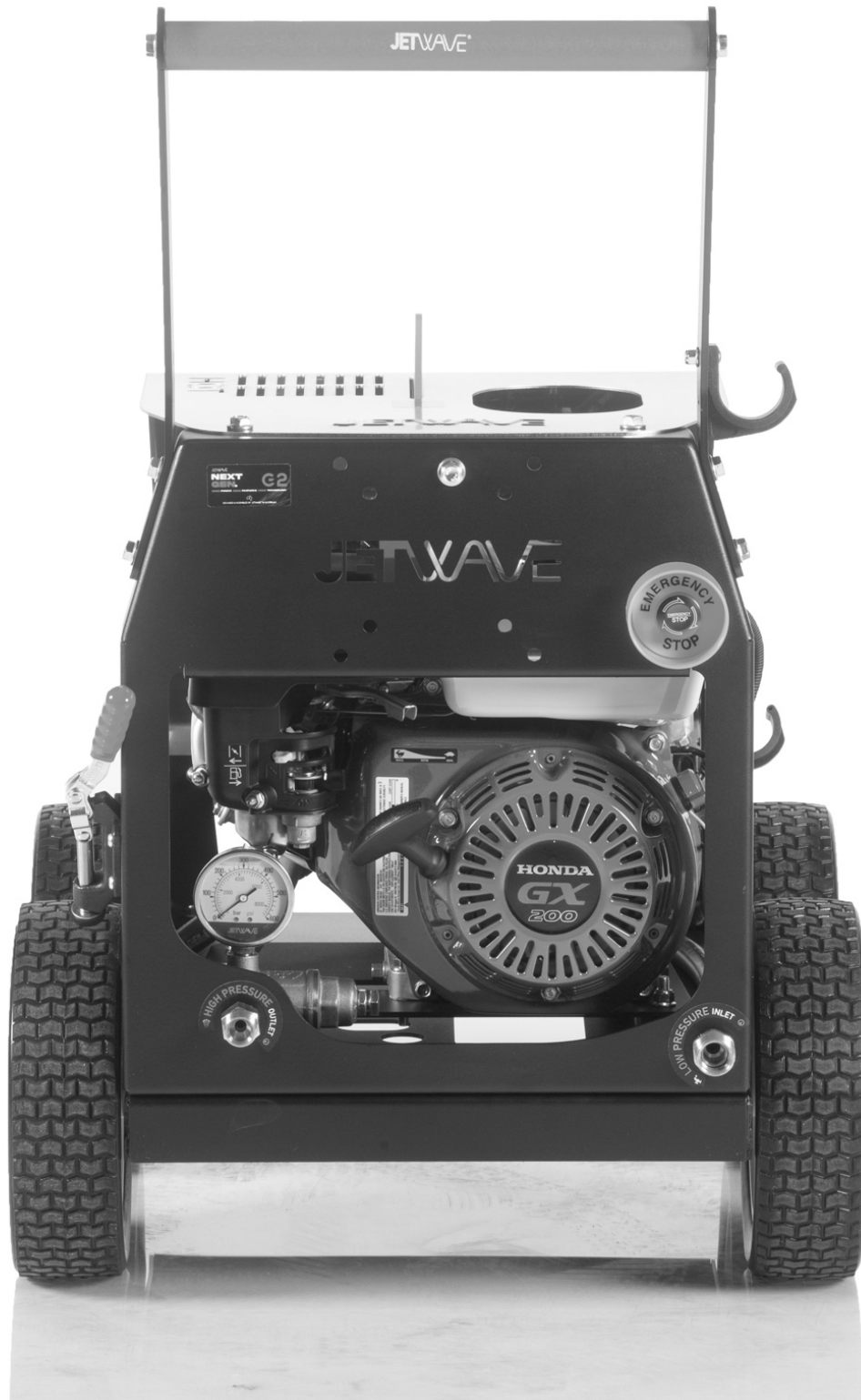
2. Subject to water quality used.

Trouble Shooting

FAULT	CAUSE	SOLUTION
Pump runs normally but pressure does not achieve rated value.	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.
Fluctuating pressure.	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.
Presence of water in oil.	High humidity in air. Piston packing or oil seal worn. Water entering through breather.	Check and change oil twice as often. Check and replace.
Water dripping from pump.	Piston packing worn. Piston guide o-rings worn.	Check and replace. Check and replace.
Dripping oil.	Worn oil seals. Oil coming out of breather.	Check and replace. Pump oil level overfull.
Motor does not start when switched on	Plug not well connected or unreliable power supply. Earth leakage overload.	Check plug, cable and switch. Check earth leakage.

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 a 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.



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Hornet G2 Manual

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