

SEWERJETT OWNER'S MANUAL

VS2 -V23 - HORNET EFI

SAFE JETTING MANUAL AND SPECS

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FOREWORD

Thankyoufor purchasing quality jetting equipment from Enviroline Group.

This operator's manual is designed for trained and competent users of industrial jetting equipment, as prescribed by Safe Work Australia and Australian Standards. All operators should familiarise themselves with the manual before operating the equipment.

This manual should be always kept with the unit. If it is misplaced, please contact Enviroline for a replacement or download it from our website.

The purpose of this manual is to ensure the safe and efficient operation of the equipment, with any associated drawings or images serving as a guide only.

In each section, we aim to familiarise users with the most important safety aspects to consider before operating the equipment, along with the operating controls and diagnosis of potential faults.

Included with this manual is a Warranty Registration and Safety Certificate. This document forms part of your warranty. Please ensure it is filled in, signed, and returned to our office.

Enviroline wishes to thank you for purchasing our drain and sewer-cleaning equipment. We recommend reading this manual thoroughly to ensure the equipment is maintained and operated to the highest standard. Please do not hesitate to contact us if you require technical support or additional parts or services.

This SEWERJETT machine is built by:

Enviroline Group
52 Vallance Street
St Marys NSW 2760

The equipment has been specifically designed and manufactured for cleaning and unblocking domestic and commercial drains, in conjunction with the uniquely calibrated high-pressure jetting nozzles supplied with your equipment (other specialist nozzles are available for pipe cleaning, silt removal, high-fat content, foreign material-based blockages, and root cutting).

Only authorised personnel may use the machine, and it should not be operated in an explosive or hazardous environment. In this manual, you will find all the necessary information concerning the operation and maintenance of your machine.

NOTICE: CHECK IF YOUR JETTER IS CLASSIFIED AS CLASS B. IF SO, TO COMPLY WITH AUSTRALIAN STANDARDS AS4233.1, OPERATORS SHOULD COMPLETE MANDATORY TRAINING.

WARRANTY TERMS & CONDITIONS – SEWERJETT™

LIMITED WARRANTY

Congratulations on the purchase of your Sewerjett Water Jetting System. Sewerjett Water Jetting Systems are the result of extensive research, development, experience and continual product improvements.

Product testing during manufacture is an essential part of ensuring reliability. If failure occurs due to defects in materials or workmanship, you will be covered by the following warranty. Please note that even the best products can only continue to operate properly with correct handling, operation and maintenance.

1. WARRANTY CONDITIONS

1.1 The warranties stated in these Warranty Conditions are given by Enviroline Group Pty Ltd to the original purchaser of the Sewerjett Product and apply in addition to any statutory warranties which cannot be lawfully excluded.

1.2 The warranties stated in these Warranty Conditions commence on the date of delivery of the Sewerjett Product to the original purchaser for the period specified in the Warranty Schedule.

2. WHAT IS WARRANTED

2.1 The Sewerjett equipment listed in the Warranty Schedule, as well as the equipment listed in clause 2.1(a), carry a warranty for defects in materials or workmanship for the specified periods in the Warranty Schedule (other than the exclusions stated in clause 3).

2.2 Enviroline Group Pty Ltd will, at its discretion, repair or replace at Enviroline's premises or at an approved repairer, any part covered under these Warranty Conditions which is defective in material or workmanship.

2.3 If failure occurs due to a provable defect in material and/or workmanship, Enviroline Group Pty Ltd will remedy it during the warranty period free of charge as per clause 3.

3. ITEMS NOT COVERED BY THIS WARRANTY

3.1 This warranty does not cover:

- (a) Any cost of freight, transport, or travel time associated with returning equipment for service. It is always the customer's responsibility to deliver the equipment to Enviroline Group Pty Ltd or an authorised Enviroline repairer at the customer's expense.
- (b) Any loss of revenue, downtime, consequential loss, or costs incurred while the equipment is out of service.
- (c) Wearing parts including but not limited to jetting hoses, nozzles/accessories, unloader/safety valves, high pressure seals, ceramic pistons, PTOs, clutches, Batteries or hydraulic components.
- (d) Depreciation, damage, malfunction or failure caused by normal wear and tear, lack of maintenance, improper servicing, misuse, or lack of protection during storage.
- (e) Depreciation, damage, malfunction or failure caused by accident or environmental factors.
- (f) Any unauthorised alterations, modifications or disassembly.
- (g) Any product beyond the warranty period as stated in the Warranty Schedule.
- (h) Depreciation, damage, malfunction or failure caused by failure to use proper fuel, lubricants, or maintenance items as described in the Operator's Manual.
- (i) Physical damage, paint scratches or cleaning.
- (j) Parts not repaired or installed by Enviroline Group Pty Ltd or an Authorised Dealer.
- (k) Replacement of normal maintenance items (filters, valves, seals, fuses, bearings, oils, belts, rubber components etc.).

(l) Original equipment not manufactured by Enviroline (such as engines, pumps, gearboxes, accessories) – these are covered solely by the relevant manufacturer warranty.

(m) Depreciation, damage caused by continued operation after a malfunction has been noticed and/or reported.

(n) Depreciation, damage, malfunction or failures occurring while the machine is used for any illegal purpose.

3.2 The Purchaser will be responsible for any service call and/or premium charged for overtime labour requested by the Purchaser and for any service and/or maintenance not directly related to a defect covered under this warranty.

3.3 The Purchaser will always be responsible for all costs associated with transporting equipment to and from Enviroline Group Pty

Ltd
or an authorised repairer unless Enviroline has specifically requested otherwise in writing.

4. WARRANTY SERVICE

4.1 Warranty service must be performed **by Enviroline Group Pty Ltd** or an Enviroline Authorised Dealer/Repairer.

5. TO SECURE WARRANTY SERVICE

5.1 In order to secure warranty service, the Purchaser must:

- (a) Report the defect to Enviroline Group Pty Ltd immediately and within the warranty period;
 - (b) Present an invoice for the Sewerjett Product with model and serial numbers recorded;
 - (c) Make the product available to Enviroline or the authorised repairer immediately after notification of a problem;
 - (d) Arrange and pay for the return/transport of the product to an Authorised Enviroline repairer at the Purchaser's expense.
-

6. LIMITATION OF LIABILITY

6.1 To the fullest extent permitted by law, Enviroline Group Pty Ltd shall not be liable (in contract, tort or otherwise and whether or not the result of negligence) for:

- (a) Consequential loss, damage or injury;
 - (b) Loss of profits, revenue, rental, or acquisition of substitute equipment;
 - (c) Any other commercial loss, personal injury or costs incurred by the Purchaser while the product is out of service.
-

7. MAINTAINING WARRANTY COVERAGE

7.1 To maintain warranty coverage, the Purchaser must:

- (a) Operate the product as described in the Operator's Manual;
 - (b) Maintain the product in accordance with the servicing details in the Operator's Manual;
 - (c) Use genuine Enviroline parts.
-

8. REPRESENTATION

8.1 Enviroline Authorised Dealers/Repairers have no authority to make any representation, promise or admission on behalf of Enviroline Group Pty Ltd or to modify these terms.

WARRANTY SCHEDULE

- Portable Jetters – 1 year or 1000 hours (whichever comes first)
 - o 3-year Pump and Motor or 1000 hours (whichever comes first)
- Truck / Trailer Mounted Jetters – 1 year or 1000 hours (whichever comes first)

SPECIFICATIONS

Model	VS2	VS3	Hornet 40HP EFI
SKU	101-1034k	101-1035k	101-1036k
Max Flow	23 LPM	31 LPM	35 LPM
Max Pressure	5000 PSI	4300 PSI	5000 PSI
Drain Size	50-225mm	50-300mm	50-350mm
Class	B	B	B

Engine Type	V-twin Petrol	V-twin Petrol	V-twin Petrol
Engine Make	Honda	Honda	Vanguard
Engine Model	GX690	iGX800	40 HP
Engine Oil	10W30	10W30	10W30
Oil Capacity	1.7L	1.7L	2.3L
Fuel	95 RON+	95 RON+	95 RON+
Starting System	12V	12V	12V
Charging System	17 AMP, 12V	17 AMP, 12V	20 AMP, 12V

Pump Type	Sewerjett Triplex Piston (Brass head)	Sewerjett Triplex Piston (Brass head)	Sewerjett Triplex Piston (Brass head)
Max RPM	1750	1750	1750
Pump Oil	15W40	15W40	15W40
Oil Capacity	1L	1L	1L

Gearbox Type	H/D Reduction	H/D Reduction	H/D Reduction
Gearbox Oil	80W90	80W90	80W90
Oil Capacity	0.35L	0.35L	0.35L

Frame	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Jetting Hose	60m x 5/16" Armorflex	60m x 3/8" Armorflex	60m x 3/8" Armorflex
Inlet Hose	25m x 3/4"	25m x 3/4"	25m x 3/4"
Water Tank	55L Poly, UV Stabilised with low water shut off switch	55L Poly, UV Stabilised with low water shut off switch	90L, UV stabilised with low water shut off switch
Dimensions	1282L x 563W x 846H (mm)	1282L x 563W x 846H (mm)	1410L x 596W x 921H (mm)
Weight	142KG	145KG	192KG

GENERAL SAFETY

The following safety alerts and icons are used throughout this operator's manual. When you see these words or icons, please read the manual carefully and follow all instructions. Your safety depends on it.

Watch for these three safety alert levels.



Indicates a hazardous situation that will result in death or serious injury if not avoided



Indicates a hazardous situation that may result in death or serious injury if not avoided



Indicates a hazardous situation that could result in minor or moderate injury if not avoided

Also, be aware of the words **NOTICE** and **IMPORTANT**.

NOTICE indicates important but non-hazardous information, such as possible property damage.

IMPORTANT highlights notes and tips that could make your job easier.

Operating procedures throughout this manual must be adhered to. Please refer to your safety officer or contact Enviroline Group regarding any conflicting or ambiguous instructions.

All persons using high-pressure jetting equipment should be fully conversant with relevant operating instructions, safety notes, and codes of practice, and must be competent in all aspects of jetter use. If your jetter is a Class B machine, all operators should complete mandatory training to comply with Australian Standard AS 4233.1.

A fully trained operator must control all high-pressure water jetting operations and be aware of the potential hazards to operators and passers-by.

Before proceeding with any high-pressure water jetting, it is essential to assess any hazards that could affect the safety of operators or members of the public in the area where the work is being carried out. A risk assessment should eliminate or reduce these hazards and risks.

Safety signs stating "**CAUTION – HIGH PRESSURE WATER JETTING IN PROGRESS**" should be displayed at all possible access points to the jetting area. Safety signs are available from Enviroline Group.

People other than the operating team must be kept out of barricaded work areas, and jetting operations must stop if unauthorised persons enter these areas.

Before starting the jetter, ensure that you and anyone who may be in control at any time are fully aware of the controls and their functions.

Everyone involved in the jetting operation must know how to stop the jetter in the event of an emergency. Ensure all operators are familiar with the location of any emergency stop switches.

Ensure that all pre-operational checks have been completed and any necessary actions have been taken.

Do not operate the jetter near any persons or animals.

Please be aware that high-pressure water jetting can be extremely dangerous and may cause death or serious injury if not properly controlled by fully trained personnel.

SAFETY WARNINGS

Bacteria Warning



Sewer lines and drainpipes can carry bacteria and other dangerous micro-organisms which may be infectious. These may cause severe illness or death if exposed to a person's mouth, nose, ears, eyes, hands or open cuts and abrasions. To protect the operator against these infectious micro-organisms or bacteria, arms, hands, and other body areas must be washed with hot, soapy water after working with sewer lines. To further protect against such bacteria, disinfectant can be used with hot, soapy water.

Skin Injection Hazard



High-pressure water from a water jetter can easily penetrate human skin. Penetration from high-pressure water can contaminate the blood stream, causing serious injury or death.

The operator should wear heavy-duty gloves, and hoses, fittings, and valves should be regularly checked for leaks.

Hose Failure Warning



Failure to effectively repair or replace the hose after exposing the white braid reinforcement layer can cause death, personal injury and/or property damage.

Regardless of the age of the hose, the slightest damage to the reinforcement layers can result in total hose failure. Where the braid is exposed, the hose is weakened and more likely to rupture. Operators must realise the danger of using damaged hoses and take immediate responsible action to prevent personal injury or damage to property. The jetting hoses should be inspected before each use.

Ensure operators read and understand the following hose basics.

1. Never exceed the maximum working pressure.
2. Never exceed the maximum working temperature.
3. Never apply pressure to a damaged hose.
4. Always use fittings/nozzles supplied by the manufacturer. Use of non-genuine fittings may result in failure.
5. Never use a hose that is kinked or damaged.

Refuelling & Fire Warning



Petrol is highly volatile and explosive under certain conditions. Refuelling of your unit must be done in a well-ventilated area. Never refuel your SEWERJET Water Jetter while the engine is running. The unit must be turned off and allowed to cool. Sparks, flames or smoking are not permitted in the area while the unit is being refuelled. Refuelling of the unit must be done in a careful manner. Do not overfill the fuel tank; ensure suitable equipment is used for refuelling (suitable

containers and funnels). Once the unit is refuelled, please ensure the fuel tank lid is closed properly and securely.

Exhaust Fumes



Fumes from the engine exhaust of your SEWERJETT Water Jetter can be harmful if allowed to accumulate and can create a dangerous atmosphere in confined spaces. For example, manholes, septic tanks, closed garages or small factory spaces that are not adequately ventilated. Excessive engine fumes can create an explosion in such atmospheres. This environment can cause severe injury or even death. Your SEWERJETT Water Jetter unit must not be operated in the abovementioned areas without adequate ventilation. Your SEWERJETT Water Jetter unit is only to be operated outdoors in an open, ventilated area.

Jetter Warning



High-pressure water is dangerous. Water Pressure can break the skin and cause serious injuries and/or death. Before operating your SEWERJETT Water Jetter unit,

ensure that your high-pressure jetting hose has been placed in the sewer line (minimum of 2 metres). This must be done before starting and engaging pressure to hose reels. If this is not followed, severe injury or death may occur. Before removing the jetting hose from the sewer line or drainpipe, water flow to the nozzle must be shut off. It is recommended that you mark your jetting hose clearly 2 metres from the nozzle. This will ensure the operator knows he is getting to the end of his sewer hose before removing

it from the drain or sewer line. Severe injury or death may occur if this procedure is not followed.

Wash Down Operation



Whilst using your wash-down high-pressure pump with gun and lance, please ensure that the gun and nozzle are not pointed toward any persons or animal whilst in operation. Severe injury may result if this procedure is not followed.

Cold Climate Usage



In cold climates, you may occasionally experience the pump, valves, hoses and/or fittings icing up and preventing water flow. This may cause pressure build-up in the pump & hoses for no apparent reason and can cause injury risk to the unsuspecting operator. Once the ice melts slightly and becomes free, the pressure is released, and ice shards may be discharged from the hose or nozzle at a dangerous velocity, causing serious injury. If there is no water flow in cold climates, turn off the jetter and ball valves, place the hose on the ground weighted down with no nozzle and ensure the hose is not aimed towards any person, animal or machinery. Pour warm water on the pump, hoses, valves and fittings until the pressure releases.

ACCIDENT REPORTING

REPORTING

All accidents or injuries, whether resulting in “lost time” or “no lost time” incidents, should be recorded in accordance with the recommendations of AS 1885.1.

Incidents that result in “near misses” should also be recorded to provide a record of significant events that could result in serious injury. This allows appropriate measures to be implemented to minimise or eliminate these potential hazards.

PERSONAL INJURIES

If a person is injured by the impact of a water jet, the injury may appear minor and give little indication of the extent of damage beneath the skin or to deeper tissues. Although only a small hole may be visible, water may have penetrated the skin and entered the flesh or organs, causing serious injury.

MEDICAL RECOMMENDATION

If an accident occurs where pressurised water penetrates—or appears to have penetrated—the skin, the injured operator should seek medical assistance immediately.

IMMEDIATE FIRST AID

Where medical examination is not immediately possible (e.g., in remote situations), appropriate basic first aid measures should be applied, and the patient should be observed closely until medical treatment is available.

MEDICAL ALERT CARD (See sample card on next page)

All commercial and industrial water blasting operators should carry an immediately accessible, waterproof medical alert card. This card should:

- Outline the possible nature of injuries and post-accident infections that can be caused by high-pressure water blasting.
- Provide details of immediate first-aid treatment until medical care can be arranged.
- Include the names and contact phone numbers of medical professionals who should be consulted for expert advice on treating high-pressure water blasting injuries.

In addition, the card may also:

- Identify the worker.
- Outline medical information about the worker, e.g., blood type, allergies, and conditions such as asthma.

EMERGENCY MEDICAL INFORMATION

IMPORTANT NOTICE

Immediate hospital treatment is essential for any personnel who sustain equipment-related injuries while operating this system. Medical staff must be fully informed of the nature and potential severity of these injuries to ensure appropriate care. For this reason, all operating personnel should carry waterproof emergency medical ID tags or cards that clearly outline the nature of their work and the risks associated with operating high-pressure water-blasting equipment. These tags or cards should also display the following standard notice:

(Sample Medical Alert Card)

MEDICAL ALERT CARD



DIAL 000 FOR EMERGENCYADVICE

TO BE CARRIED BY ALL HIGH PRESSURE WATER JETTER OPERATORS

CAUTION! THIS PERSON HAS BEEN INJURED BYA HIGH PRESSURE WATER JETTER

Please take this into account when making your diagnosis. High-pressure water injection injuries can produce unexpected patterns of severe internal and external injury along with infection complications. Emergency physicians must be aware of the varied, deceptive presentations and subsequent complications to deal with injuries effectively. Bacterial swabs and blood cultures may be helpful.

Where medical attention is not immediately possible, appropriate basic first aid and measurements should be applied, and the patient observed closely until medical treatment is available.

Your safety is a priority.

This medical alert card is for general information purposes only. This medical alert card is not a substitute for professional medical advice.

Download a printable safety card from enviroline.net.au/downloads/

SAFE OPERATION

Always use personal protection equipment (PPE) when using the machine. (See page 15)

This includes, but is not limited to:

- Eye protection such as safety goggles or a face shield
- Gloves
- Safety boots
- Ear protection
- Long sleeve clothing, overalls or aprons.



WARNING

Never direct the spray jet at any person or animal.



CAUTION

Never hold a finger over the high-pressure nozzle. Never look down into a nozzle or hose while connected to the jetter



CAUTION

After use release the pressure in the high-pressure hose by operating the pistol trigger, or ball valve with no nozzle attached. Ensure the end of the hose is secure.

An unsecured hose under pressure will whip and may cause death or severe injury.



WARNING

Certain engine components become very hot when in use, e.g. exhaust muffler and cylinder head. Switch off the engine and allow to cool before touching.

Also ensure no object can come into contact with the exhaust parts or engine. Objects coming into contact with hot engine parts or exhaust system can cause fire.



DANGER

Ensure the engine is turned off and allowed to cool before refuelling. Failure to do may cause fire and serious injury. Never refuel the engine while the jetter is running.



WARNING

Ensure no objects near the jetter are able come into contact with the battery, starter motor or alternator. Shorting out these components can cause electrical fire.



CAUTION

Do not attempt to disconnect any hose or coupling with pressure still in the hose. An unsecured hose under pressure will whip and may cause death or severe injury.

Never pull the high-pressure hose if it has formed kinks or nooses. Never pull the hose over sharp objects.

Never supply any liquid other than clean water to the water inlet.

Do not operate the machine whilst standing on ladders. Use a platform tower or scaffolding.

Unqualified persons or children should not be allowed to use the machine.

Do not attempt any mechanical repairs. If you have a problem with your machine contact Enviroline on 1800 816 830

OPERATING PROCEDURE

Before your Sewerjett water jetter is used, ensure all safety precautions have been taken and that all persons operating the unit are wearing protective clothing such as safety goggles, face shields, gloves, overalls or raincoats, steel cap boots, and ear protection equipment. (More information can be found under the Personal Protection Equipment section.) Ensure appropriate safety signage has been placed in the operation area.

The operator is not to use equipment unless they are satisfied that it has been inspected and serviced in accordance with the manufacturer's recommendations and that it is free from any faults. Any faults or defects are to be reported to the supervisor or management, and the equipment is "tagged out" with a "Defective" or "Do Not Use" tag. All servicing and/or repairs must be carried out by an approved Sewerjett repair agent.

Check & clean water filters.

Check all oil levels and the quality of oil in the pump. If pump oil appears milky in colour, change oil immediately.

Check the condition of guards, shields and safety valves.

Check all valves, fittings and hoses for wear or corrosion.



Failure to effectively repair or replace hoses after exposing any braid reinforcement layer may cause death, personal injury and/or property damage. See **HOSE FAILURE**

WARNING page 5

Make sure there is a good clean water supply to the pressure pump.

NOTICE: Recycled water is not suitable for this equipment.



Ensure that the hose reel ball valve is in the ON position with the water hose secured and there is no nozzle connected. An unsecured hose under pressure will whip and may cause death or severe injury.

Open the ball valve and ensure the hose is facing away from the operator. Position the engine at half throttle and start the engine. Once the engine is running, close the ball valve and reduce the throttle to idle.

If using the remote-control option, turn the key to the on position and switch the remote on. Push the start button to start the machine.

If using the remote mini-reel, run the main jetting hose out to the inspection opening and connect the hose to the mini-reel, ensuring the quick connector is connected securely. Turn off the mini reel ball valve.

Select the nozzle to be used, and screw it onto the hose, ensuring the fittings are tight and sealed. If using quick-release fittings, ensure the male bayonet is secured correctly into the female quick-release coupling.



Ensure that your high-pressure jetting hose has been placed in the sewer line by a minimum of two metres. This must be done before starting and engaging pressure to hose reels. An unsecured hose under pressure will whip and may cause death or severe injury.

Open the main ball valve and check for leaks. Adjust the throttle to attain the desired pressure.

Keeping a firm hold on the jetting hose, open the mini reel valve to start jetting, then allow the hose to run through your hands at the desired rate.
If cleaning seems slow, the following techniques can be applied to assist your SEWERJETT Water Jetter.

The high-pressure jetting hose can be twisted to help it get around bends and traps.



The high-pressure jetting hose can be pulled backwards and released to help with penetration.



Different nozzles can be tried for various applications. (See page 14)

Always protect your hose with the tiger tail hose protector, especially when entering through a pit or manhole.



When jetting is complete, reduce the throttle to idle and rewind the hose on the mini-reel until the 2m indicator is visible.

CAUTION Ensure the end of the hose is not completely removed from the pipe while the ball valve is open. An unsecured hose under pressure will whip and may cause death or severe injury.

To shut down the unit, turn the ball valve off, turn the throttle to the slow position, and turn off the key. With the nozzle inside the drain and the engine stopped, reopen the mini reel ball valve to depressurise the system. Alternatively, detach the nozzle and hold the hose end away from yourself and others, then slowly open the ball valve to release excess pressure.

CAUTION Removing the quick release under pressure may cause the hose to whip, causing severe injury.

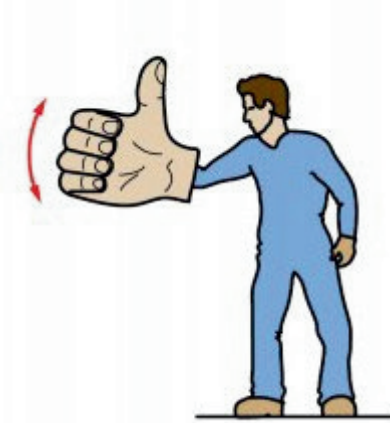
NOTICE: Always drain the water tank after jetting is complete and before travel. Failure to drain the water tank will result in damage and malfunction of the float valve inside the tank. This, in turn, may cause water overflow during operation with water damage to the machine or your vehicle.

HAND SIGNALS

The following hand signals may be used to communicate during high-pressure water jetting operations.

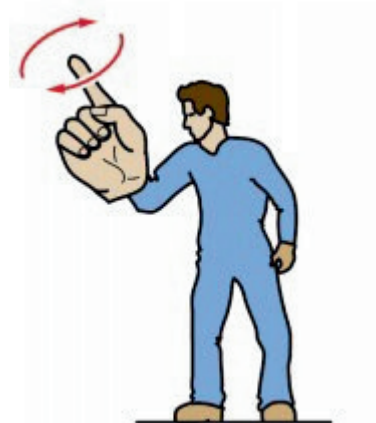
1. Pressurise System

With the thumb pointing upwards, the rest of the hand closed. From shoulder height, the arm moves up and down.



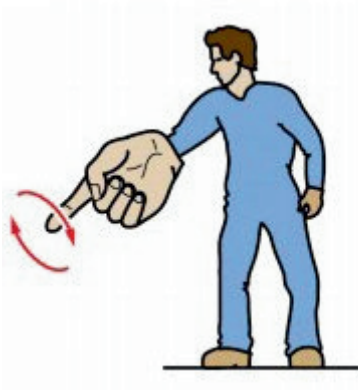
2. Raise pressure

The first finger pointing up, the rest of the hand closed. The hand is moved in a circular motion.



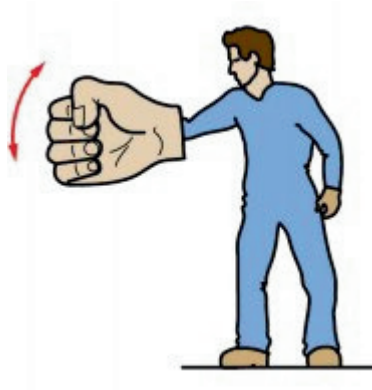
3. Lower Pressure

Finger pointing down, the rest of the hand is closed. The hand is moved in a circular motion.



4. Depressurise System

Form a fist. Move the arm back and forth at shoulder height.



UNLOADER VALVE & SAFETY VALVE

The unloader valve on your Sewerjett is pre-set and should not be tampered with. Tampering with valves will void the warranty.



Adjusting the unloader can cause excess pressure build-up in hoses and valves and may result in serious personal injury.



Adjusting the unloader may cause excess load on the pump and engine, causing serious mechanical damage.

NOTICE: Any damage caused by unauthorised unloader valve adjustment will not be covered by warranty.

The Sewerjett is fitted with a pre-set safety valve, which protects operators and the pump by dumping excess pressure to the ground should the unloader valve fail.



Any tampering with the safety valve can cause serious personal injury and pump damage.

PERSONAL PROTECTION EQUIPMENT (PPE)

Appropriate personal protective equipment should be worn where:

- Hazards cannot be otherwise prevented or suitably controlled (e.g., by engineering or administrative controls, total enclosure, or substitution); or
- Complete protection is essential (e.g., in some occupational environments with uncertain levels of hazards).

Providing and using personal protective equipment does **not** reduce or replace the need for proper Occupational Health and Safety prevention measures, such as engineering or administrative controls. The safety officer should fully explore recommendations for such preventative measures before considering the issue of personal protective equipment. Where PPE is issued, instruction and training should be provided regarding its correct use and maintenance.

Head Protection

Where appropriate, operators should wear suitable head protection that complies with **AS/NZS 1801:1997**.

Eye Protection

Eye protection complying with **AS/NZS 1337:2010** (suitable for the purpose and of adequate fit) should be worn at all times when in the vicinity of water blasting operations. Where liquids can cause eye damage, operators should wear a full-face visor and goggles.

Leg & Body Protection

All personnel should wear suitable waterproof clothing complying with **AS 3765.1:1990** or **AS 3765.2:1990**, depending on the type of work being undertaken. Liquid- or chemical-resistant suits should be worn where there is an assessed risk to health or injury that can be prevented by such equipment. Water jetting operators should use leg and body armour made from materials capable of withstanding the direct force of the water jet where there is a risk of injury.

Hand Protection

Adequate hand protection complying with the recommendations of **AS/NZS 2161.3:2009** or **AS/NZS 2161.5:1998** should be worn whenever there is an assessed risk of injury that can be prevented by such equipment.

Foot & Lower Leg Protection

Jetter operators should wear appropriate occupational protective footwear complying with **AS/NZS 2210.3:2009**. Where there is a risk of foot or leg injury, a foot and lower leg guard or shield made from material capable of withstanding the direct force of the water jet should be used. **AS/NZS 2210.1:2010** provides guidance for the selection of footwear.

Hearing Protection

Suitable hearing protection complying with **AS/NZS 1269.3:2005** should be worn when noise levels exceed regulatory limits. All personnel and operators should receive instruction on the correct use and maintenance of hearing protectors to ensure noise exposure remains within the limits recommended by regulatory authorities.

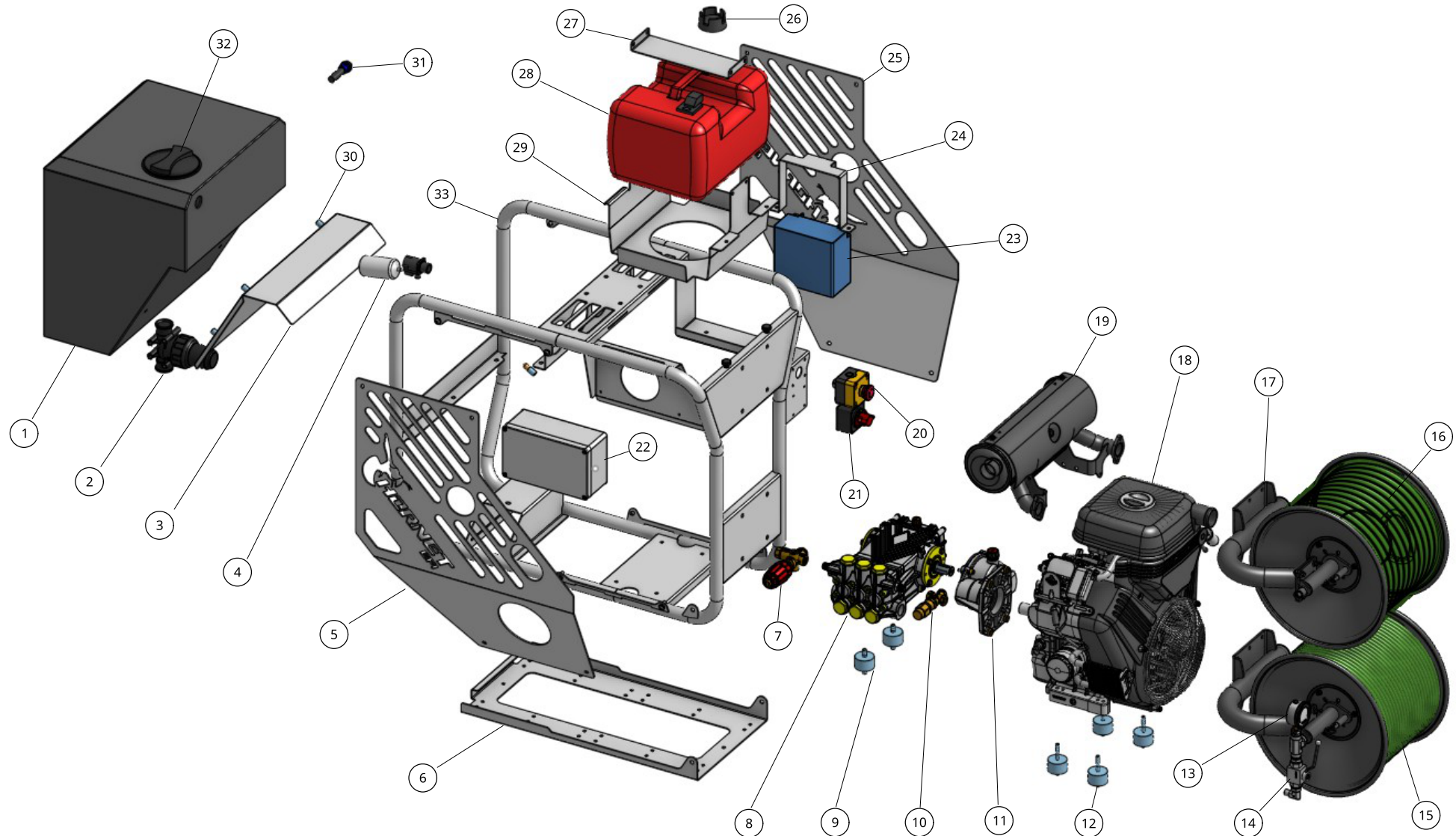
TROUBLESHOOTING

FAULT	CAUSE	REMEDY
Engine turns over will not run	E-stop position No water in tank No fuel Low oil No choke	Check E-stop Check Water Tank is full Check fuel level Check Engine Oil Level Pull choke level out were applicable
Engine Runs and stops after a few seconds	Fuel tank Breather Valve	Release breather valve on fuel cap
Sluggish when trying to start engine	Flat Battery Ball Valve's closed N.b – Efi engines needs llv or more to operate	Check battery Voltage (recharge or replace) Open ball valves to flow position
The pump is running normally, but no water output	Hose/fittings iced up The unloader valve seat is faulty. Pump sucking air	Pour warm water or leave in direct sunlight Check and replace
The pump is running normally, but the pressure is low.	Valves sticking, dirt in valves. The unloader valve seat is faulty. Nozzle Incorrectly sized Worn piston packing	Check the water supply and the possibility of air ingress Check and clean or replace If necessary Check and replace Check and replace Check and replace
Fluctuating pressure.	Valves worn Valves blocked Pump sucking air Worn piston packing	Check and replace Check and clean out if necessary Check water supply and air ingress at joints in the suction line Check and replace
Pressure is low after a period of normal use.	Nozzle worn Suction or delivery valves worn Suction or delivery valves blocked The unloader valve seat is worn Worn piston packing	Check and replace Check and replace Check and clean if necessary Check and replace if necessary Check and replace if necessary

Pump noisy	Air in suction Broken or weak suction or delivery valve spring Foreign matter in valves Worn bearings Excessive temperature of liquid	Check the water supply and connections on the suction line Check and replace If necessary Check and clean if necessary. Check and replace if necessary. Reduce temperature
Presence of water in oil	Oil seal worn High humidity in the air. Water ingress from rain or water tank overflow Piston packing worn	Check and replace Check and change the oil twice as often Check & change the oil. Check and/or replace the float valve Check and replace if necessary.
Water dripping from under the pump	Piston packing worn Plunger retainer worn	Check and replace Check and replace
Oil dripping	Oil seal worn	Check and replace if necessary
Valves switches repeatedly when the gun is off	Leaking gun and/or pressure pipe Leaky sleeve Worn out kick-back valve body Leaky seals	Renew gun, seal pressure pipe Renew sleeve Check and renew as necessary kick-back valve plate and seat Renew seals
Leaky piston rod	Defective O-ring/support ring	Renew piston rod seals and examine surfaces in the guide case
Leaky by-pass at nominal pressure	The nozzle is too small, too much water Worn out by-pass valve	Install larger nozzle Examine and renew as necessary, poppet; Valve set and by-pass valve body Adjust the unloader at the
The pressure gauge shows high pressure fluctuations when shutting off the gun	The valve set too high above the operating pressure Dirty valve	operating pressure Clean valve (removing lime deposits, etc) Grease parts before installing

HORNET 40EFI

EXPLODED VIEW & PARTS LIST



Exploded assembly • items 1–33 correspond to the parts list on the following page

HORNET 40EFI

COMPLETE PARTS BREAKDOWN



PARTS LIST

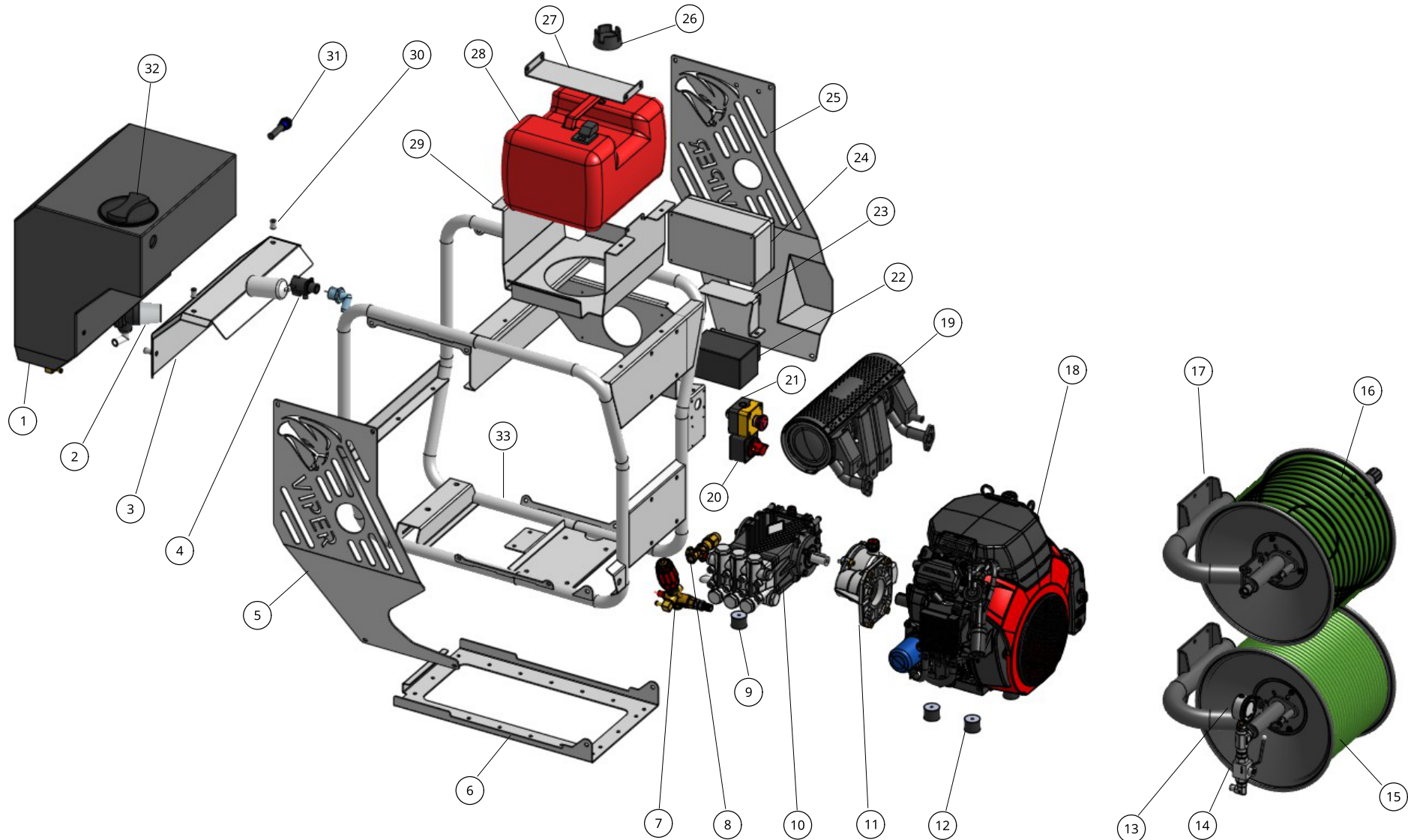
No.	Description	Part No.
1	Water tank, Sewerjett Hornet 40EFI, Poly 90L	211-1029
2	Water Strainer, Sewerjett 1" Hornet 40EFI	205-1231
3	Heat Shield, Sewerjett Hornet 40EFI	209-1823
4	Float Valve, Sewerjett 3/4" Viper VS & Hornet	205-1233
5	Cover Panel, LHS Hornet 40EFI	209-1824
6	Locking Base Plate, Sewerjett Hornet 40EFI	209-1830
7	Unloader Valve, Brass 40 Lpm - 5070 PSI	203-1030
8	Triplex Piston pump, Sewerjett Heavy Duty, 35Lpm @ 5000 PSI, 1450 RPM	202-1035
9	Rubber Mount, Pump, Viper VS, Hornet 40EFI	201-1087
10	Safety Valve, Brass 25 Lpm - 5220 PSI	203-1009
11	Reduction Gearbox, Sewerjett Heavy Duty, 1-1/8" Shaft, 40 Hp	202-1032
12	Engine Rubber Mount, Sewerjett Hornet 40EFI	201-1089
13	Pressure Gauge, Sewerjett 8500 PSI bottom entry	216-1123
14	Ball valve, Sewerjett 3/8" Stainless Steel	204-1005
15	Jetting Hose, 3/8" x 60m, Armorflex Black, 5100PSI	108-1073
16	Water Feed Hose, Sewerjett 25m x 20mm	205-1213
17	Hose Reel Large, Armour Reels AR80 Heavy Duty Steel	109-1031

No.	Description	Part No.
18	Vanguard 40HP EFI V-Twin engine, 1-1/8" shaft	201-1090
19	Muffler, Genuine Vanguard 40 Hp EFI, Starter side outlet	201-1091
20	Emergency Stop Switch	213-1791
21	Battery Isolator Switch	213-1091
22	Remote control Kit, Sewerjett Hornet 40EFI	213-1793
23	Battery, suit Hornet 40EFI	213-1790
24	Battery Bracket, Hornet 40EFI	209-1829
25	Cover Panel, RHS Hornet 40EFI	209-1828
26	Fuel tank Lid, Sewerjett Viper VS, Hornet 40	212-1016
27	Fuel tank Strap, Hornet 40EFI	209-1827
28	Fuel Tank, Sewerjett 11.3L Viper VS, Hornet 40	212-1017
29	Fuel Tank mounting bracket, Sewerjett Hornet 40EFI	209-1826
30	Heat Shield Aluminum Spacer, Sewerjett Hornet 40EFI	209-1831
31	Float Switch, Sewerjett side entry	205-1234
32	Water Tank Lid, Sewerjett Viper VS, Hornet 40	205-1235
33	Frame, Hornet 40EFI, 304 Stainless Steel	209-1825

TOTAL ITEMS 33

VIPER VS2

EXPLODED VIEW & PARTS LIST



Exploded assembly • shared VIPER VS Series platform

VIPER VS2

COMPLETE PARTS BREAKDOWN



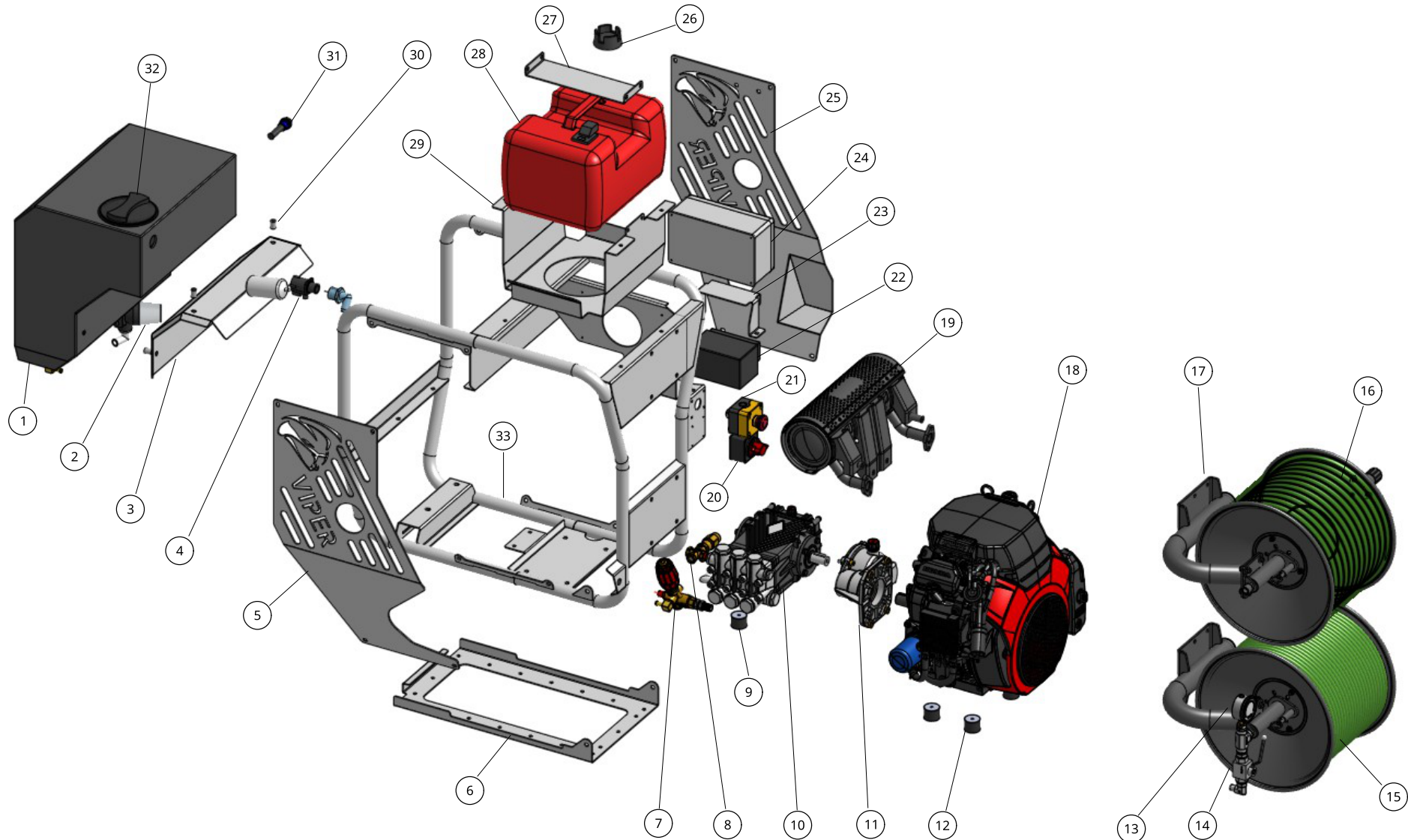
PARTS LIST

No.	Description	Part No.	No.	Description	Part No.
1	Water tank, Sewerjett Viper VS Series, Poly 55L	211-1030	18	Honda V-Twin Engine, GX690RHTXF7, 1-1/8" shaft	201-1002
2	Water Strainer, Sewerjett 3/4" Viper VS	205-1232	19	Muffler, Genuine Honda, Starter motor side outlet	201-1092
3	Heat Shield, Sewerjett Viper VS series	209-1833	20	Battery Isolator Switch	213-1091
4	Float Valve, Sewerjett 3/4" Viper VS & Hornet	205-1233	21	Emergency Stop Switch	213-1791
5	Cover Panel, LHS Viper VS Series	209-1834	22	Battery, VS Series	213-1792
6	Locking Base Plate, Sewerjett Viper VS Series	209-1835	23	Battery Bracket, Viper VS Series	209-1836
7	Unloader Valve, Brass 40 Lpm - 5070 PSI	203-1030	24	Remote control Kit, Sewerjett Viper VS Series	213-1794
8	Safety Valve, Brass 25 Lpm - 5220 PSI	203-1009	25	Cover Panel, RHS Viper VS Series	209-1837
9	Rubber Mount, Pump, Viper VS, Hornet 40EFI	201-1087	26	Fuel tank Lid, Sewerjett Viper VS, Hornet 40	212-1016
10	Triplex Piston pump, Sewerjett Heavy Duty, 23Lpm @ 5000 PSI, 1450RPM	202-1034	27	Fuel Tank strap, Sewerjett Viper VS Series	209-1838
11	Reduction Gearbox, Sewerjett Heavy Duty, 1-1/8" Shaft, 32 Hp	202-1032	28	Fuel Tank, Sewerjett 11.3L Viper VS, Hornet 40	212-1017
12	Engine Rubber Mount, Sewerjett Viper VS Series	201-1088	29	Fuel Tank mounting bracket, Sewerjett Viper VS Series	209-1839
13	Pressure Gauge, Sewerjett 8500 PSI bottom entry	216-1123	30	Heat Shield Aluminum Spacer, Sewerjett Viper VS Series	209-1840
14	Ball valve, Sewerjett 3/8" Stainless Steel	204-1005	31	Float Switch, Sewerjett side entry	205-1234
15	Jetting Hose, 5/16" x 60m, Armorfex Green, 5000PSI	108-1074	32	Water Tank Lid, Sewerjett Viper VS, Hornet 40	205-1235
16	Water Feed Hose, Sewerjett 25m x 20mm	205-1213	33	Frame, Viper VS Series, 304 Stainless Steel	209-1841
17	Hose Reel Large, Armour Reels AR80 Heavy Duty Steel	109-1031			

TOTAL ITEMS 33

VIPER VS3

EXPLODED VIEW & PARTS LIST



Exploded assembly • shared VIPER VS Series platform

VIPER VS3

COMPLETE PARTS BREAKDOWN



PARTS LIST

No.	Description	Part No.	No.	Description	Part No.
1	Water tank, Sewerjett Viper VS Series, Poly 55L	211-1030	18	Honda V-Twin Engine, GX800iRHTXF7, 1-1/8" shaft	201-1065
2	Water Strainer, Sewerjett 3/4" Viper VS	205-1232	19	Muffler, Genuine Honda, Starter side outlet	201-1092
3	Heat Shield, Sewerjett Viper VS series	209-1833	20	Battery Isolator Switch	213-1091
4	Float Valve, Sewerjett 3/4" Viper VS & Hornet	205-1233	21	Emergency Stop Switch	213-1791
5	Cover Panel, LHS Viper VS Series	209-1834	22	Battery, VS Series	213-1792
6	Locking Base Plate, Sewerjett Viper VS Series	209-1835	23	Battery Bracket, Viper VS Series	209-1836
7	Unloader Valve, Brass 40 Lpm - 5070 PSI	203-1030	24	Remote control Kit, Sewerjett Viper VS Series	213-1794
8	Safety Valve, Brass 25 Lpm - 5220 PSI	203-1009	25	Cover Panel, RHS Viper VS Series	209-1837
9	Rubber Mount, Pump, Viper VS, Hornet 40EFI	201-1087	26	Fuel tank Lid, Sewerjett Viper VS, Hornet 40	212-1016
10	Triplex Piston pump, Sewerjett Heavy Duty, 32Lpm @ 4350 PSI, 1450RPM	202-1033	27	Fuel Tank strap, Sewerjett Viper VS Series	209-1838
11	Reduction Gearbox, Sewerjett Heavy Duty, 1-1/8" Shaft, 32 Hp	202-1032	28	Fuel Tank, Sewerjett 11.3L Viper VS, Hornet 40	212-1017
12	Engine Rubber Mount, Sewerjett Viper VS Series	201-1088	29	Fuel Tank mounting bracket, Sewerjett Viper VS Series	209-1839
13	Pressure Gauge, Sewerjett 8500 PSI bottom entry	216-1123	30	Heat Shield Aluminum Spacer, Sewerjett Viper VS Series	209-1840
14	Ball valve, Sewerjett 3/8" Stainless Steel	204-1005	31	Float Switch, Sewerjett side entry	205-1234
15	Jetting Hose, 3/8" x 60m, Armorflex Black, 5000PSI	108-1073	32	Water Tank Lid, Sewerjett Viper VS, Hornet 40	205-1235
16	Water Feed Hose, Sewerjett 25m x 20mm	205-1213	33	Frame, Viper VS Series, 304 Stainless Steel	209-1841
17	Hose Reel Large, Armour Reels AR80 Heavy Duty Steel	109-1031			

TOTAL ITEMS 33

Risk Assessment Worksheet

Review date:

ENVIROLINE GROUP (Water Jetter)

Assessor(s) _____

Location _____

Date _____

No	Category	Hazard	Risk Score	Controls	Risk Score
1	Mechanical	Injury from water jet stream	H	Proper training and protective measures & Equipment Operator training	H
2	Mechanical	Entanglement in Hydraulic winch reel	H	Training and PPE	H
3	Biological	Infection from hoses nozzle/sewer	E	Use of fire extinguisher fitted to machine	E
4	Fire / explosion	Fire in machine	L	PPE	L
5	Physical	Noise from machine	L	Confined space training and equipment	L
6	Confined space	Gas in/near sewer Manholes	H	Housekeeping and appropriate footwear.	H
7	Slip/Trip/Fall	Slip on wet surface	H	Training, only use outdoors in well-ventilated areas.	H
8	Physical	Inhalation of exhaust fumes	H	Engine guards, proper ventilation, fire extinguisher on unit	H
9	Engine operation (diesel/petrol)	Burns, fire, fumes, carbon monoxide exposure	M	Secure all connections, regular hose inspections, safety break-away hose fittings	L
10	Hose whipping or failure	Impact injury or loss of control	H		M

Risk Assessment Worksheet

Review date:

RISK MATRIX

RISK RATING CHART (based on AS/NZS4360 – Risk Management Standard)		CONSEQUENCE				
		1. Insignificant No injury or damage expected	2. Minor Could cause 1 st Aid injury or minor damage	3. Moderate Could require medical attention and several days off work or moderate damage	4. Major Could cause serious long-term illness or injury or major damage	5. Catastrophic Could kill, cause permanent disability or ill health or cause very serious damage
LIKELIHOOD	E. Almost Certain Could happen any time	H	H	E	E	E
	D. Likely At some point in time	M	H	H	E	E
	C. Possible Possible it might happen	L	M	H	E	E
	B. Unlikely Not likely to happen	L	L	M	H	E
	A. Rare Could happen, but probably never will	L	L	M	H	H
Class E Class H Class M Class L		EXTREME RISK: – Immediate action required HIGH RISK: High risk, senior management attention required MODERATE RISK: Moderate risk; management responsibility must be specified LOW RISK: Low risk; manage by routine procedures				

CATEGORIES

Physical	Noise, temperature, light, radiation
Chemical	Hazardous substances or dangerous goods
Mechanical	Plant, equipment – entanglement, hit
Biological	Substances – Hepatitis, HIV, virus, bacteria
Psychological	Stress, violence
Fire / explosion	Gas, flammable, explosion
Electrical	Cables, power points, data lines
Ergonomic	Man handling, posture, reach, static load
Slip/Trip/Fall	Fall from height, same level
Confined space	Vessels, pits, tanks, security areas

Personal Protective Equipment (PPE) Required

- Safety boots (non-slip)
- High-vis clothing
- Safety goggles / face shield
- Hearing protection
- Cut-resistant gloves
- Long sleeves / waterproof outerwear (when needed)

Emergency Procedures

- First aid kit must be on-site.
- Emergency shut-off valve clearly marked and accessible.
- Know location of nearest emergency services and provide operators with contact protocol.
- Report all incidents or near misses immediately to supervisor.

Operator Training

- All operators must be trained and competent in the safe use of water jetters.
- Training includes understanding SOPs, maintenance, and hazard awareness.

*This risk assessment has been prepared by the manufacturer to outline general operational hazards and recommend safety measures for the equipment. It is provided as a guide only. The owner and/or operator of this jetter is responsible for reviewing, completing, and adapting this risk assessment to reflect the specific working environment and intended use. A site-specific risk assessment must be carried out prior to operating this equipment in the field.

SERVICE SCHEDULE FOR SEWERJETT

First Service: 50 hours Or 6 months			
Date of Service:		No. of Hours @ Service:	
Change Spark Plugs		Change Fuel Filter	
Change Oil Filter		Change Air Filter	N/A
Comments			

Second Service: 150 hours Or 12 months			
Date of Service:		No. of Hours @ Service:	
Change Spark Plugs		Change Fuel Filter	
Change Oil Filter		Change Air Filter	
Comments			

Third Service: 250 hours Or 18 months			
Date of Service:		No. of Hours @ Service:	
Change Spark Plugs		Change Fuel Filter	
Change Oil Filter		Change Air Filter	
Comments			

Fourth Service: 350 hours Or 24 months			
Date of Service:		No. of Hours @ Service:	
Change Spark Plugs		Change Fuel Filter	
Change Oil Filter		Change Air Filter	
Comments			

Fifth Service: 450 hours Or 30 months			
Date of Service:		No. of Hours @ Service:	
Change Spark Plugs		Change Fuel Filter	
Change Oil Filter		Change Air Filter	
Comments			

Sixth Service: 550 hours Or 36 months			
Date of Service:		No. of Hours @ Service:	
Change Spark Plugs		Change Fuel Filter	
Change Oil Filter		Change Air Filter	
Comments			

See online or contact Enviroline for service dealer information.

SEWERJETT WARRANTY SAFETY CERTIFICATE

Customer Details:

Company:	
Address:	
Email:	Ph No:
Contact:	Mobile:

Product Information:

Make: Sewerjett	Model No:
S/No:	Engine No:
Installation Date:	

Pre-Delivery Certification:

As the selling dealer of the new equipment as mentioned above, we hereby certify that: 1. The pre-delivery has been done according to the manufacturer's standards. 2. The owner has been referred to the warranty conditions and the manufacturer's operation manuals, and these documents have been provided to the owner. The correct operating and safety procedures as outlined in these manuals supplied with this product have been fully explained to the Purchaser	
Name of Selling Dealer Representative:	
Signature:	Date:

Purchaser Declaration:

I acknowledge that I have inspected and accepted my new equipment as supplied to me by Sewerquip Pty Ltd and that in order to retain my warranty, I will abide by: - 1. the limited warranty provided by the manufacturer. 2. My owner responsibilities with respect to the correct service procedures and maintenance periods contained in the operator manuals that I have received I also acknowledge that I understand the correct operating and safety procedures set out in the manuals and that the selling dealer representative instructed me regarding this equipment. I also understand that I am responsible for arranging operator training for all users to comply with AS24233.1 2013. The main safety issues with this product are: 1. Possible injury from high pressure water 2. Possible risk of infection from sewer bacteria 3. Possible hearing injury and burns I understand and accept these conditions.	
Name of Purchaser:	
Signature:	Date:

*To activate your warranty, this form must be completed, signed, and sent to Enviroline at warranty@enviroline.net.au within 60 days of the original delivery date. Failure to do so may result in the warranty being void. Enviroline reserves the right to deny any warranty claims where proof of submission cannot be provided. This condition applies in addition to any rights and remedies available under Australian Consumer Law.

Register Your Honda Engine

While your Enviroline jetter is covered by our 1-year warranty, please ensure you register your genuine Honda engine with Honda to activate their extended engine warranty.





52 Vallance St, St Marys NSW 2760

Ph: 02 9673 6755

sales@enviroline.net.au

ABN: 78 338 603 525