

HDV8000

OPERATORS

MANUAL



Issue: 1

Rev: A

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Foreword and Reporting a Safety Defect

Foreword

This manual is an important part of your HDV8000.

It provides safety information and operation instructions to help you use and maintain your STG Global HDV8000.

Read this manual before using your equipment. Always keep this manual with the equipment for future reference.

If you sell your HDV8000, ensure this manual is given to the new owner.

If you require a replacement copy, please contact your STG Global dealer. If you need assistance in locating a dealer, visit our website at **stgglobal.net** or on the **STG App** which you can find on the **Apple store or Android store**.

Reporting a Safety Defect

If you believe that your vehicle has a defect you should **stop operating the machine immediately** and inform the Service department at STG Global Contact on **1300 998 784**

Overview

- Foreword
- Reporting Safety Defects
- Safety signs
- Daily checks/Prestart
- Unit Components
- Operational procedures
- SOP'S
- Trouble shooting
- Serial Number Location

Contents

Overview

Machine Serial Number, information about the type of work this machine is designed to perform, basic machine components and how to use this manual

Foreword

publication date of this manual and factory contact information

Foreword: Page

Part numbers, revision level, publication date of this manual and factory contact information

Safety

Machine safety alerts and emergency procedures

Controls & Operation Overview

Machine controls, Gauges, Indicators and how to use them

An overview for completing a job with this machine, setting up, vacuuming, use of the pressure function, using the Gerni, Remote functions and general operation

Locations and explanations

Simplifying your HDV8000

SOP'S

Troubleshooting

Helpful troubleshooting for your HDV8000

Service & parts:

Service intervals and instructions for this machine including lubrication, replacement of wear items and basic maintenance

Support: Page

The warranty policy for this machine and procedures for obtaining warranty consideration and training

Safety

DISCLAIMER

The STG Global Team take safety very seriously and expect our customers to ensure the same level of safety is used whilst operating all STG Global products.

STG Global is not responsible for how customers choose to use our products, the safety standards are suggested guidelines only.

PLEASE NOTE

Incorrect and unsafe use of STG Globals products can result in **SERIOUS INJURY OR DEATH.**

Safety signs



High pressure

Keep clear

Do not drink

Rotating

Crush zone

Risk of fall

Confined space



Vehicle frequently stop

Do not drink

Risk of fall

High pressure
warning

Beware of
overheads

Erect handrail

Read ops manual

Safety signs on the HDV8000



Vehicle frequently reversing



High pressure warning



Beware of overheads



Erect handrail



Read ops manual



Isolate plant equipment



Risk of fall



Rotating parts



Do not drink



Confined space



Keep clear



Crush Zone

Recommended PPE for Operating the HDV8000



- Steel cap boots
- Safety glasses
- Work appropriate gloves
- Hard hat
- Hearing protection (Ear plugs, Earmuffs ect.)

General Safety Precautions

- Do not operate the HDV8000 without 2-wheel chocks
- Do not operate the HDV8000 in a confined, non-ventilated space
- Do not operate the HDV8000 on an unstable / slippery surface
- Do not allow any children or untrained personnel operate the HDV8000
- Do not enter the Spoil Tank without a spotter and required ventilation equipment
- Do not enter the module without a spotter
- Do not Access the roof of the HDV8000 without a safety harness
- Do not put any body part including hands or feet near any moving part
- Do not release any hydraulic or engine oil while in operation as this can result in injury or even death
- Do not remove any shields unless servicing the HDV8000, ensure shields are out back into place and tightened before operating
- Do not allow anyone to ride outside of the cab of the vehicle
- Do not be in close proximity to the module while starting and running the engine
- Do not reverse without inspecting your surroundings
- Do not contact any moving or running part inside of the module while operating
- Do not operate the HDV8000 under the influence of any drugs or alcohol
- Do not come into contact with the Gerni nozzle or Powerheads under pressure as this can cause serious injury
- Do not come into contact with the inside of the boom hose under pressure or vacuum
- Do not come into contact with any hydraulic ram whist in operation
- Do not come into contact with the rear door while the door is opening or closing

Prestart /daily check before use of the HDV8000 Part 1

Actions	Pass	Fail (add notes)
Step 1 On the right-hand side of the module Check all filters for leaks Check the floor of the module for any engine oil, grease or hydraulic oil. Check all reflectors/ indicators down the right-hand side for damage.		
Step2 Check that the water filters are clean. if not remove and clean the water filters and reinstall them. (please turn the water valve back open once reinstalled)		
Step 3 Check the water level via the sight pipes installed on the side of the water tanks. (make sure that you have enough water on board for the job)		
Step 4 Check the hose reel ensure that there isn't any damage to your reel or house. (Hose reel may be installed at the rear of the vehicle)		
Step 5 Check for damages to the Handrails and toolbox		

Step 6 Check the function and condition of the Gerni hose rollers. Check the water hose lines for any		
Step 7 Check all hydraulic fittings, rams and lines for leaks at the rear of the vehicle		
Step 8 That that all mudguards on the Right-hand side are in functional condition.		
Step 9 Check the function of the valves on both the rear dump valve and the vacuum suction point		
Step 10 Check the functionality of the E-stop that it engages and disengages Check all reflectors/ indicators down the Left-hand side for damage.		
Step 11 Check the functionality of the water tank pump valve.		
Step 12 Check the boom hose for any damages.		
Step 13 That that all mudguards on the left-hand side are in functional condition.		

Prestart /daily check before use of the HDV8000 Part 2

Actions	Pass	Fail (add notes)
Step 1 Climb the ladder to check the blower oil level via the sight glass. Minimum level of half full on the sight glass is acceptable		
Step 2 Climb down the ladder and check the hydraulic oil via the sight glass on the tank. Minimum level of half full on the sight glass is acceptable.		
Step 3 Check the Cat engine oil, Via the dip stick on the right-hand side of the block. Only check when the is on level ground, only top up the oil if the dip indicates L oil.		
Step 4 Check the coolant level via removing the cap coolant sound come up to the bottom of the filler neck.		
Step 5 Check the tension on the belts via hand ensure there is no excessive slack in the belts.		

Step 6 Clean out the bag house filters With the provided wash gun.		
Step 7 Clean out the cyclone housing by remove the top lid and opening the bottom door wash the cyclone out with water.		

- **STG Global advises that all trucks should be washed after use**
- **Please note that the HDV8000 can be operated in 3 different ways, by the control panel, the wireless remote and the pendant remote**

Before any operation of the HDV8000

- Before operating the HDV8000 ensure the module isolator is flicked over to on, the isolator switch is located on the right hand side of the vehicle below the Cat engine



- As seen in this image the isolator is in the on position flick the switch up to power the HDV8000 down to power down

Disengage E-STOPS

- There are two E-Stops located on the left-hand side of the HDV8000, one on the back of the toolbox and another inside the module on the Cat motor screen control



- To disengage a E-STOP twist the stop to the left and pull



Start-up sequence for cat motor



Pull out the Red E stop



Press the power light button



Push up on the cat switch



Press the start button



Control RPM with the up and the down buttons



Press the compressor button to supply your air tanks with a additional air supply



Press gneri if you would like to use the gneri

➤ **Ensure that all E Stops have been disengaged**

CAT Motor User Control Screen



- The power on and off switch is used to turn on the screen and turn it off
- The menu button can be used at any time to return back to the main menu
- The Emergency stop button is used to power down the engine and screen in the event of an emergency. Please note if the Emergency Stop Button is engaged the CAT Screen and Motor will not power on.
- Up button is used to turn up your RPM, the maximum RPM the CAT Engine can go up to is 2150RPM. This increase in RPM will increase the output of the engine.
- Down button is used to decrease the RPM, this will lessen the CAT motor output
- The enter button is used to agree with a question that the CAT screen may ask you
- The start button is used to start the CAT engine once the screen is powered on
- The auto button is used to get your CAT engine up to a preset RPM which you can program into the CAT motor screen
- The stop button will power down the CAT motor

Control Panel Controls



- Every button on the control panel has a set function and is self-explanatory (E.G the work light button powers the work lights on the STG HDV8000)
- Before powering up your CAT engine, you must press the Exhaust Vacuum button seen here as the green emergency stop button, this will allow you to start the engine
- Air open close will open the air valve to allow you to have vacuum or pressure.
- The tank reel switch can be used if you have a reel installed on your HDV6000, press the switch and tank up/down this will make your reel extract and retract

Remote Controls Loadar

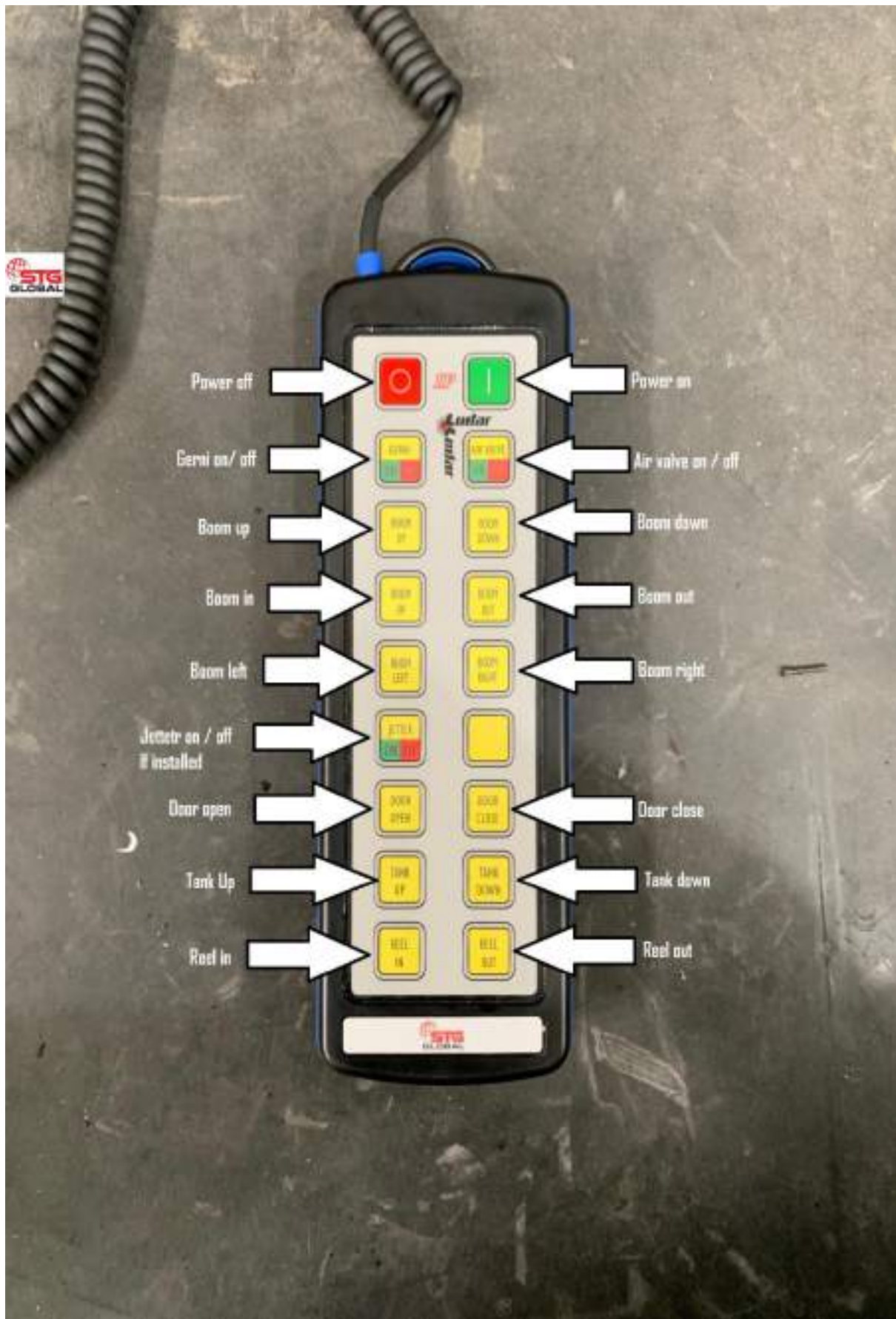


Loadar Remote 1

Loadar Remote 2

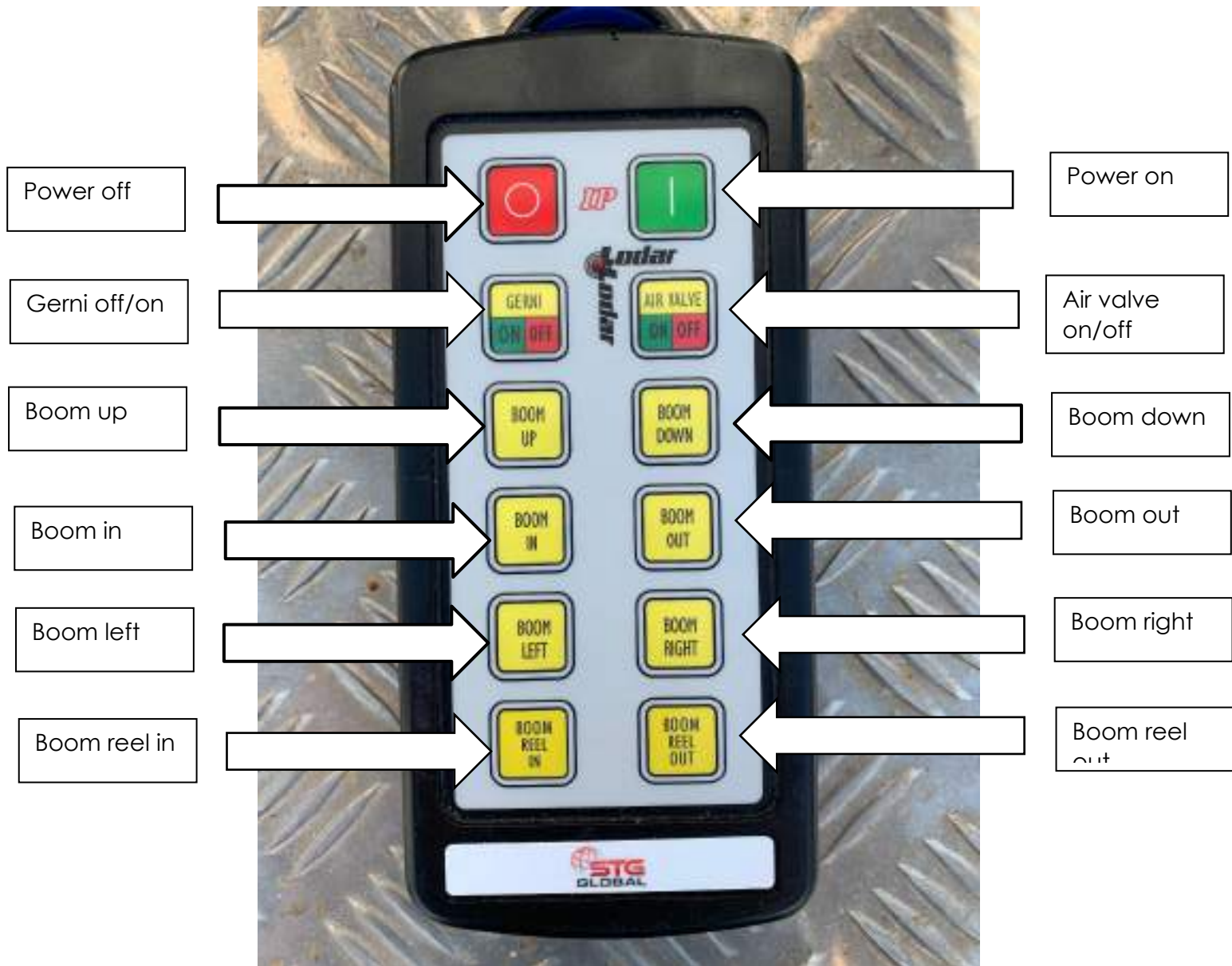
Loadar Remote 3

- All remotes must be turned on using the green button, only one remote can be used at a time
- To switch between the remotes you must press the red button on the top left-hand corner to power down the remote, then press the green button on the remote you want to use
- All the button on the remotes are the same as the control panel (see image on page 14), The Range of the remotes varies between 35M to 50M away from the Receiver Unit installed on the HDV8000
- The Loadar Unit runs off disposable battery's

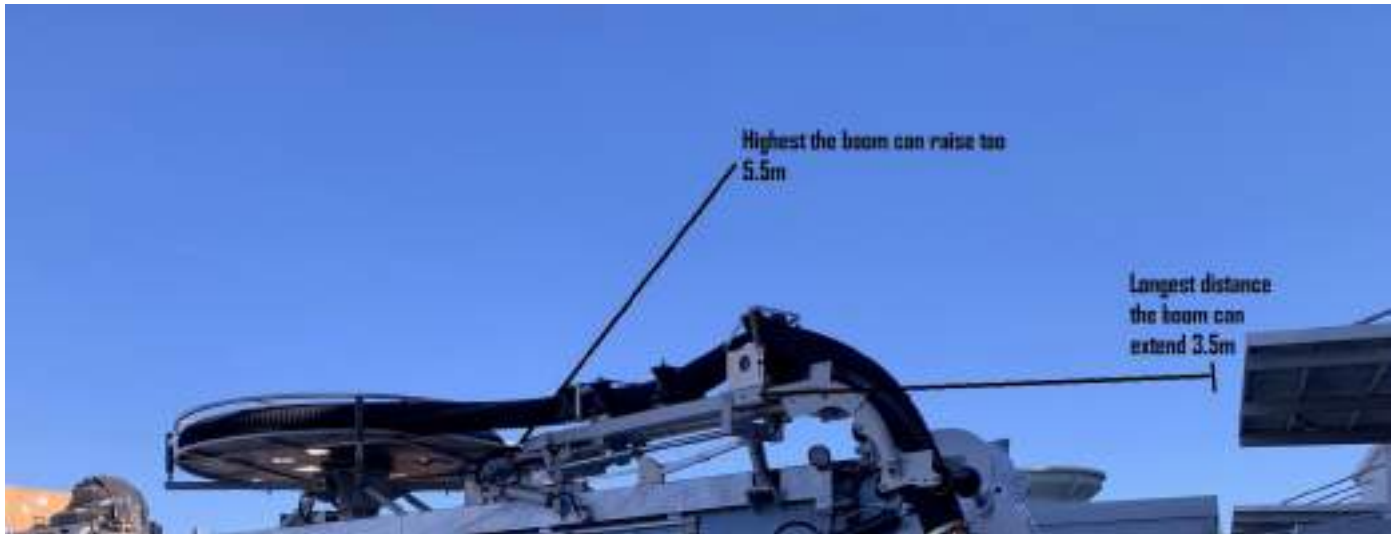


Remotes for Extension boom operation

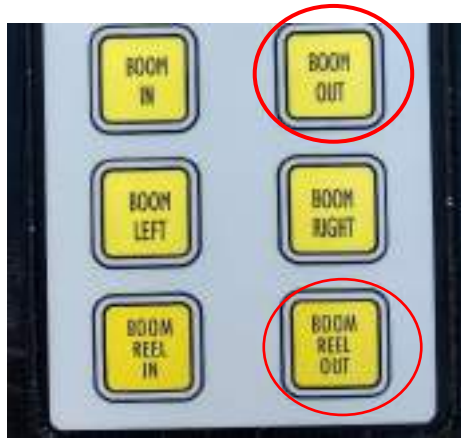
The boom can be operated from both the control panel and the loader remote



Important Information about your boom



A total distance of 20m of hose can be used by using the boom reel out and in.

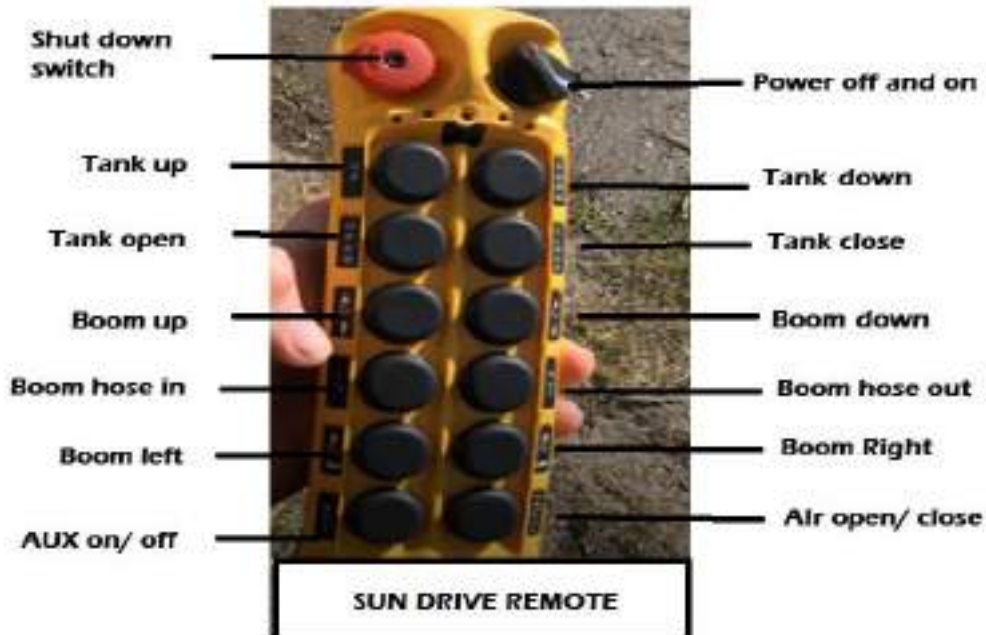


To ensure that the hose doesn't come out of the boom tracks press the boom out button at the same time as the boom reel out.

Failing to do so could result in the end boom hose coming out of the end roller.



Remote Controls Sundrive

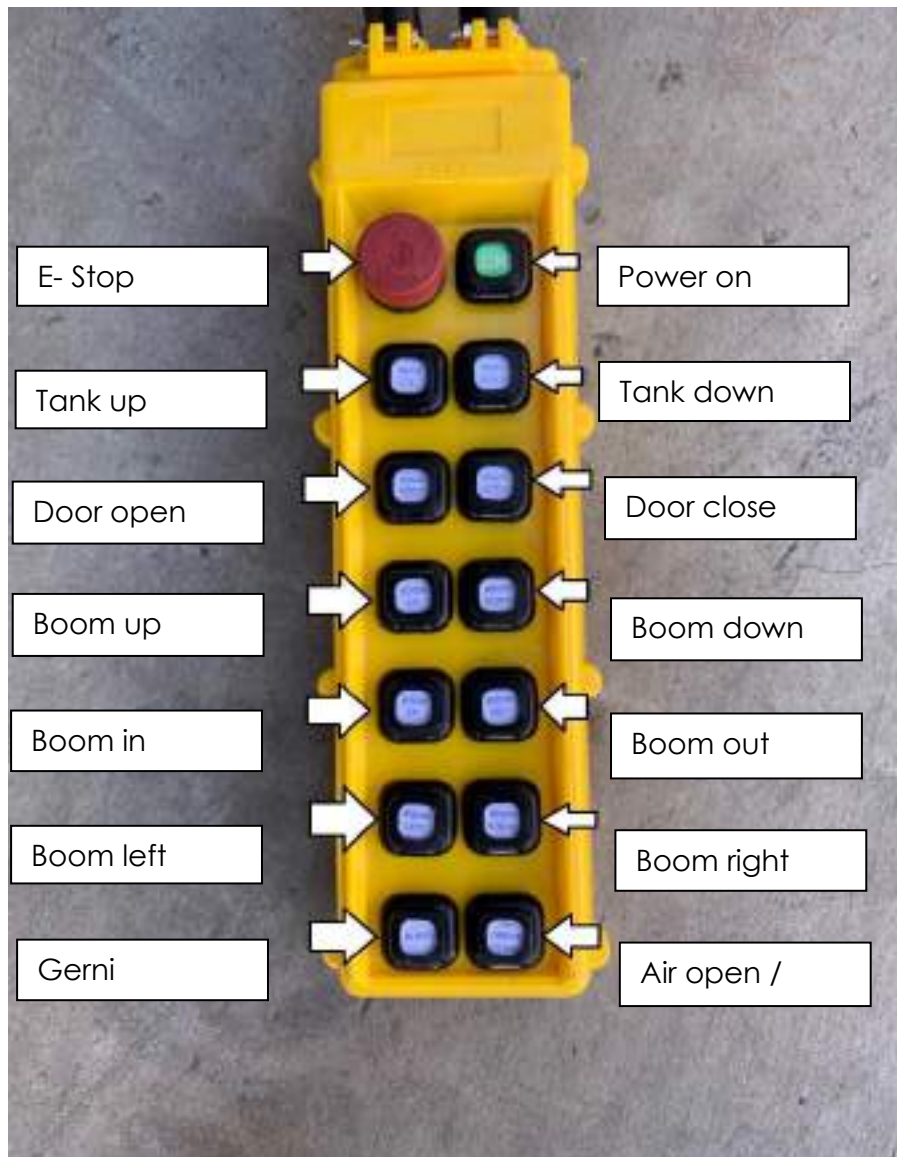


- The Range of the remotes varies between 25M to 40M away from the receiver unit installed on the HDV8000
- The symbols on the side of the remote are the same as the buttons on the control panel (as seen on page 14)
- The Sundrive remote is a rechargeable unit that comes with 2 chargers

Pendant Remote Wired Remote



- This remote has the same controls as the control panel
- This remote must be connected the bottom of the control panel
- The remote cord is 20m long



Prestart /daily check before use of the HDV8000

Front of vehicle



Left hand side of vehicle



Rear of vehicle



Right hand side of vehicle



Check for broken stg installed components, damaged hydraulic lines and anything hanging off the vehicle.

Check the levels of the following, Engine oil, hydraulic oil, water level, spoil level via the sight glasses

Engine oil (ensure that all levels are checked on a flat surface)

The engine oil can be checked only on the Cat motor inside of the module. The Cat is located on the right-hand side of the vehicle behind the cab.

Right hand side
of vehicle



To Check the oil level pull the dip stick out of its housing located on the right hand side of the cat motor, wipe the dip stick with a rag and place the stick back into the housing, pull the dip stick back out of the house to check your oil level.



If the engine oil is low the oil can be topped up with 40 w15 engine oil via the filler located on top of the cat engine.

Hydraulic oil(ensure that all levels are checked on a flat surface)

To check your hydraulic level, you'll have to have to do a visual inspection of the hydraulic sight glass located on the hydraulic oil tank on the left-hand side of the module.



If the hydraulic oil is low, you top it up that the fill point located.

Located on the left-hand side of the vehicle below the module on the right-hand side.

Water level (Ensure that all levels are checked on a flat surface)

The water levels on the two tanks can be checked via sight glasses located at the front and the rear of the water tanks. Tank one is located on the right-hand side of the Vehicle, and the other tank is on the left-hand side of the vehicle.



Spoil level

The Spoil level is can be checked by the sight glasses at the rear vehicle



Check that water filter ball valve is switched on

***please note that if the valve is switched off, and the water pumps are running this can wear out the water pump motor And void your STG warranty**

Filters are located on the right-hand side behind the module.



Filters in the on position



Filters in the off position



Check the grease nipples on the vehicle regrease if needed

STG advise that all grease nipples are regrease regularly. Grease points are located below the module on the left hand side of the vehicle. All rams are to be greased regularly there are grease nipple on all hydraulic rams at the rear of the Vehicle



Stg recommends using a hand pump.

Check the condition of all STG accessories such as the Lance guns

The accessories will be located in the toolboxes on the left and right-hand side of the vehicle



Check for any damage on the wash guns handles and nozzles.



Check module condition including hydraulic lines, wiring, buttons, switches and overall condition.

The module is located behind the cab and in front of the spoil tanks.



Check the condition of the buttons/ switches

Check for any wires exposed

Check for and hydraulic leaks

Open the control panel door via the handle on the right hand side and check if any electrical fittings have come loose.



Cleaning of the Cyclone housing

The cyclone filter is on the left-hand side of the HDV8000 behind the module.



There is a door on the bottom of the cyclone it has two wing nuts on the right-hand side of the door you'll need to loosen the nuts to open the door, the door is there so you can clean your cyclone.

***ENSURE THAT THE WING NUTS ARE TIGHT ONCE THE DOOR IS SHUT TO SEAL THE SYSTEM**



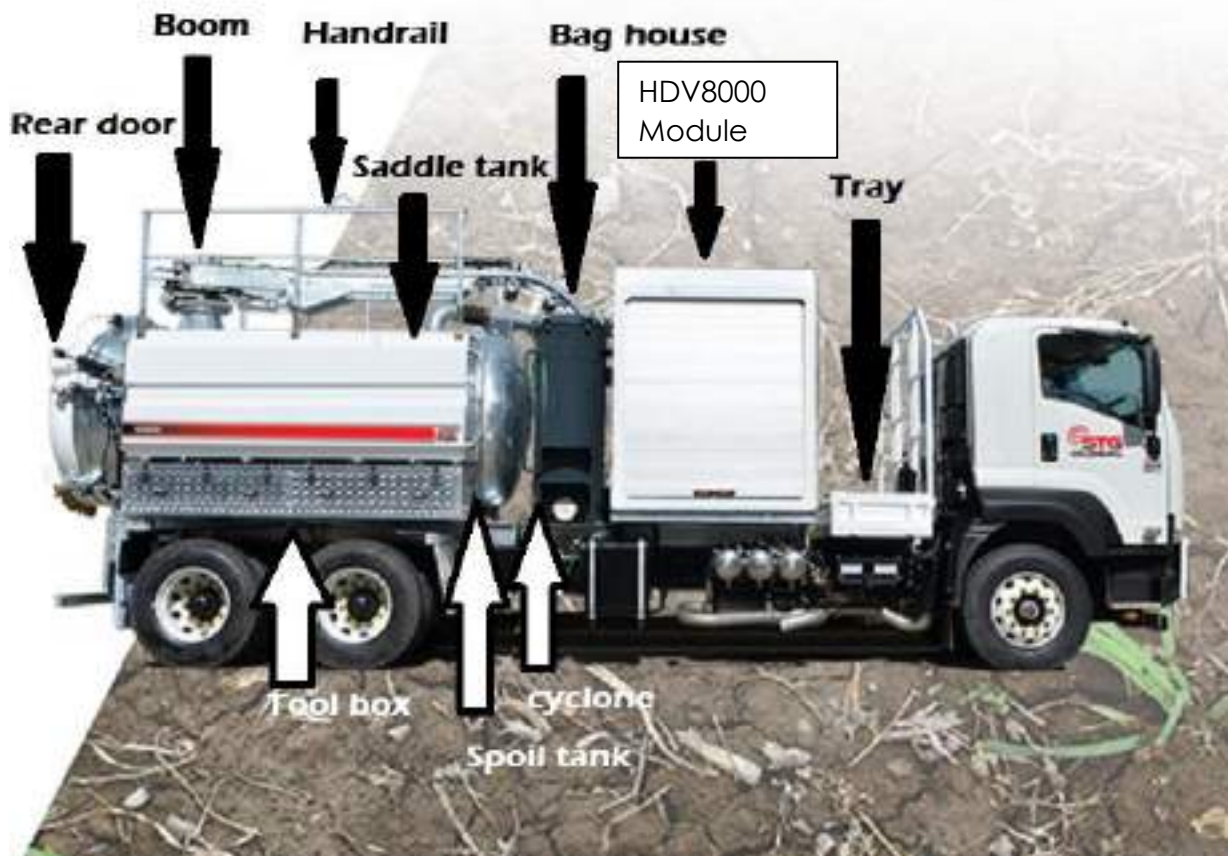
Check the function of the STG components such cat motor, Gerni, boom, tank up and down (operation of the component can be found on the following pages)

- Please note that the cat motor must be running on idle (1000RPM) for the function test .

Unit components

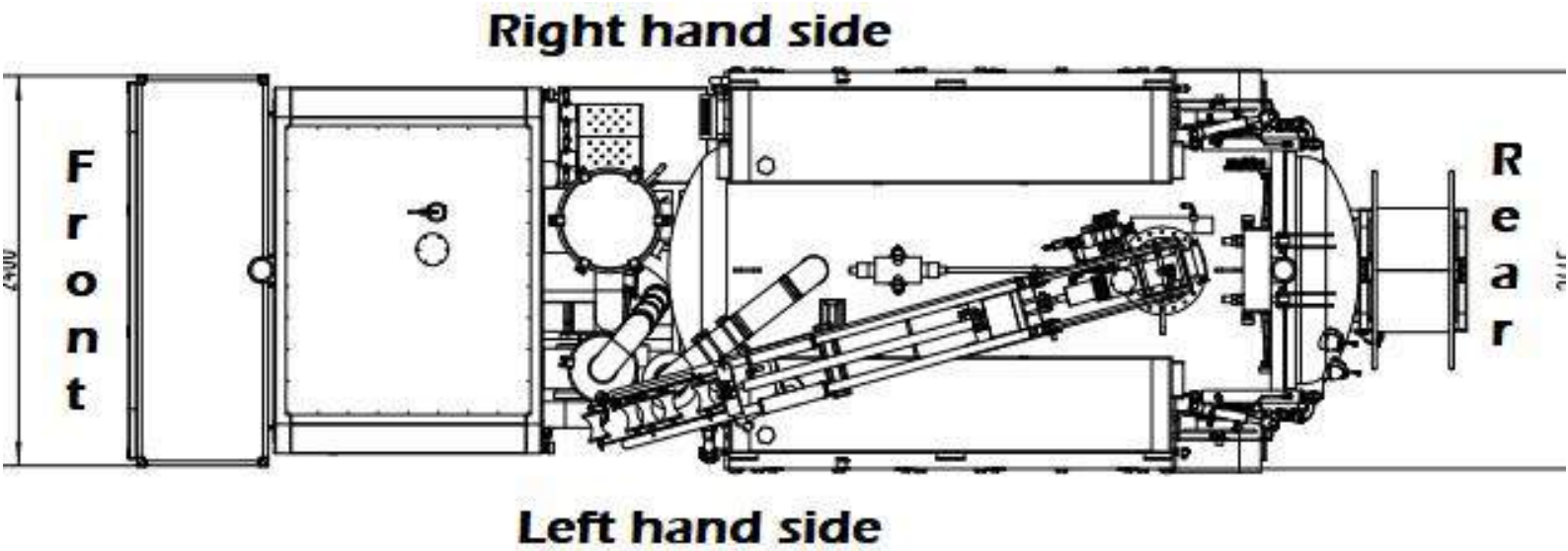
The Components in The HD8000 are as follows:

Tray, HDV8000 Module, Bag House, Cyclone, Spoil Tank, Saddle Tank, Handrail, Toolbox, Boom & the Rear Door.



Operator Orientation

HDV8000



To open the roller doors, push in on the key barrel and pull down on the door by the handle. This will release and unlock the door, use the guide rope to control how fast the door opens



Each roller door comes with 2 keys the rollers can be locked with

Gauges

Pressure Gauges



Gerni Water Pressure Gauge

Vacuum and Pressure Gauge

- The Gerni Water Pressure Gauges are installed to give the user an accurate reading of the PSI being delivered through the Gerni, 3000 PSI is the maximum that the Gerni should be set, this is adjustable via the bolt underneath the Gauge.
- The Vacuum Pressure Gauge is a indicator of HG under Vacuum pressure and PSI under pressure. The HG and PSI can be increased by turning up the RPM on the Cat Engine (Ref to page 13 for more information)

Operation Set Up



- Ensure that The HDV8000 is on a flat harden surface as it can become highly dangerous if parked on an unstable surface
- Ensure that there is no power lines / any structure above your work area with the boom fully extended the HDV6000 will be 20ft high **LOOK UP AND LIVE**
- Ensure that the 2-wheel chocks are placed behind the rear wheels the HDV8000 comes standard with 2 wheel chocks
- Ensure that only trained personnel operate the HDV8000
- If equipment has been damaged, STG Global advise you do not continue using the faulty equipment.
- Wear all advised PPE (as seen on page 10)
- Ensure that your fuel level isn't critically low
- Ensure that your machine is in running order, download the STG Global app for a Pre-start check video

Operation of the Boom



- To start the boom, you will need to start the CAT motor, you can do this by following the sequence on the start up page
- The boom is can go up, down, left, right and the hose can retract, these controls are located on your remotes and control panel
- Ensure that there is no power lines / any structure above your work area with the boom fully extended the HDV6000 will be 20ft high **LOOK UP AND LIVE**
- If there is any confusion on how to use the boom to its fullest potential, you can watch operator's video found on the STG Global app.
- DO NOT stand directly underneath the boom
- Never put your hand or any other body part in the suction hose under pressure or vacuum
- To get suction or pressure through the boom press the air open/close button, then choose between vacuum or suction with the Pressure /vacuum switch

Operation of the Gerni



- Please refer to CAT motor start up page
- To power the Gerni after starting up the CAT motor press the Gerni button on the control panel . (If you turn the gerni on by the control panel is by passes the gerni off on function on the remotes)
- Connect your Gerni gun to the hose end before use pull the metal sleeve on the hose end and put it over the gerni end
- The higher the RPM the higher the pressure output, the pressure can also be controlled by the valve at the rear of the HDV80000.
- Please turn off the Gerni while it isn't in use as this can wear out the unloader
- Squeeze the gun trigger to operate the Gerni
- **These Gerni ends are not shovels, please do not jab the heads into the ground as this can result in damaging the heads**



Operation of the Hose Reel



PLEASE NOTE

- When retracting the hose reel ensure that the operator walks the hose back onto the reel and doesn't let go of the hose while retracting.

(LETTING GO OF THE HOSE CAN RESULT IN INJURY AND INCREASE THE CHANCE OF DAMAGING THE INTERNAL SPRING OF THE HOSE REEL.)

Operation of the Rear Reel and Tiger Tail



- Turn the Tank Reel Changeover switch to the right on the control panel, this changes the function of the door open and close button to a reel in and reel out button on all the remotes.



- The end of the Tiger Tail with the steel insert can be attached to the rear suction point of the HDV8000
- Please use provided Travis Clamp to secure hose

Filling and Emptying the Water Tanks

- There are two fill points on the HDV8000, one the left-hand side of the Saddle Tank, and the hydrant fill point at the bottom of the left-hand side of the Saddle Tank.



- To empty the tanks there is a water release valve at the rear left-hand side of the vehicle, remove the cap and pull the ball valve to release the water.



Tank & Door Functions (Must be carried out at engine idle 1000RPM)

- To lift the tank, press the tank up button on your control panel and remotes



- To lower the tank, press the tank down button on your control panel and remotes



- To open the door, press the open-door button on your control panel and remotes



- To close the door, press the close door button on your control panel and remotes



- All buttons on see here are located on the left-hand side of the vehicle inside the module on the bottom left hand corner.
(please see related images on the page over)

- Please note to empty the tank the door must be opened first then make the tank go up



Locations and explanations

Cat motor

The Cat motor is located on the right hand-side of the vehicle inside on the module ,



Please do not touch the cat engine after use temperatures can exceed 95 degrees

Cat motor screen and control panel

PLEASE SEE INSTRUCTIONS ON HOW TO USE THE CONTROLS ON THE SCREEN ON PAGE



Spoil tank

The spoil tank is located at the middle to rear of the vehicle



The spoil tank is designed to tip to empty the load please see how to start the Cat motor empty your load on page 34 and 40



- Ensure that ram locks are put on the rams once the door is open (remain 10m away from the vehicle while dumping)

Water tanks

There are two water tanks one on each side of the spoil tank



Boom and boom hose

The boom is stored on top of the vehicle and kept on the left hand side



Rear door

The rear door is on the back of the spoil tank at the rear of the vehicle



Toolbox and accessories

There is a toolbox on the left-hand side of the vehicle here how to open the locks, pull down on the lock and twist to the left the door is on struts and the door will lift open after being unlocked.



The contents of the tool box includes lance guns , Travis fittings and wheel chocks



How to install Travis fittings

Place the Travis fitting on you desired point



After which use the clip the tight the fitting



Control panel

The control panel is on the left-hand side of the vehicle inside of the module



The control panel is on left bottom corner of the module

Blower

The blower is located on the left hand side of the module just behind the control panel,



Please do not touch the blower after use temperatures can exceed 65 degrees

Bag house

The bag house is on the right-hand side of the vehicle behind the module



To open the bag house filter there are 6 wing nuts you'll need to undo followed by 6 13mm bolts holding the filters down remove the 6 bolts and take the plate off to get your filters out



After you have carried out the filter remove STG advises that you clean out the filters daily

Here is what the filters will look like



Stg advises that you use the wash Gerni that is supplied with the HDV8000 to clean out the filters



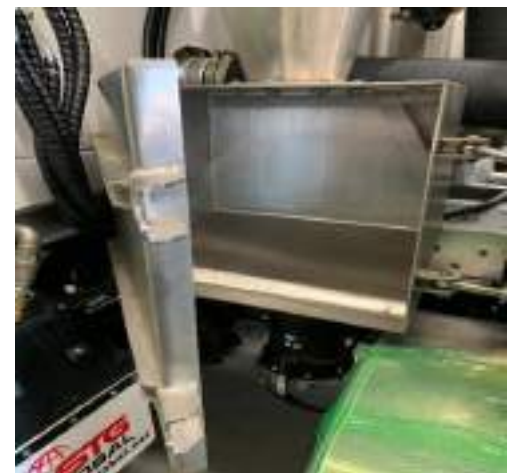
Cyclone

The cyclone filter is on the left-hand side of the HDV6000 behind the module



There is a door on the bottom of the cyclone it has two wing nuts on the right-hand side of the door you'll need to loosen the nuts to open the door, the door is there so you can clean your cyclone.

***ENSURE THAT THE WING NUTS ARE TIGHT ONCE THE DOOR IS SHUT TO SEAL THE SYSTEM**



Hydraulic oil Tank

The hydraulic oil tank is on the left-hand side of the vehicle inside of the module on top of the blower (to open the roller door follow the procedure)



How to remove the water filters and clean them

- The water filters are located on the right-hand side of the vehicle below the bag house filter and behind the module



- Before removing the filters turn off the ball valve, after witch twist the filter to the left



- After the water filter is removed wash the filter with water then re install the water filter back together the same was is was when removed.



- Re install the filter by spinning it on the right and turn the ball valve back on



Handrail

- The handrail is a safety feature on the HDV8000 that is installed on both sides of the roof



Please see the page over to see location of the switch and how to operate the handrails

Handrail switch location

- The handrail switch is located on the left-hand side of the vehicle inside the module next to the control panel



- You will have to follow the roller door procedure on page 8 to open the module



Flick the hand rail switch up to make the hand rails go up, flick the hand rail switch down to make the hand rails go down

Primary disconnects

- The primary disconnect is located on the left-hand side of the vehicle between the cyclone and the tanks



Fire extinguisher

- The fire extinguisher is located on the left side of the vehicle attached to the far left hand side of the of the toolbox



Watch your weight

- While driving between locates you may be forced to stop a government weigh bridges. If both you're saddle water tanks are filled and you have the spoil tank full of mud this can put you over the legal maximum Weight. This can result in large fines for both the operator and the company. STG Global advises that all truck should be installed with a Truck weigh system. The STG Global also advises that the water tanks should be emptied while traveling.

HOW TO EMPTY THE WATER TANK

- To empty the tanks there is a water release valve at the rear left-hand side of the vehicle, remove the cap and pull the ball valve to release the water.



Completing the Job

*DISCLAIMER

(STG Global highly recommend that all equipment is washed down daily with the supplied wash Gerni Gun)



Handy tools to keep in the HDV8000

- A adjustable shifter 300mm



- A socket set (3/4 inch rachet with sockets from 7mm-32mm)



- A shovel



- Zip ties (4.8 mm by 400mm)



- A hammer



- A spanner set (with spanners ranging from 8mm -24mm)



- Allen keys set (ranging from 1.5mm – 10mm)



- safety glasses



- Safety boots



- Ear muffs



High pressure cleaner SOP

Personal Protective Equipment (PPE)

AS 1319-1994 Safety signs for the occupational environment reproduced with permission from SAI Global under licence I210-c062. Standards may be purchased at <http://www.saiglobal.com>

Rubber steel-toed boots



Metatarsal Guard



Rough wet grip gloves



Face Shield



Rain Suite



Hearing Protection



Head Protection



- Rings, watches, jewellery that may become entangled in machines must not be worn.
- Long and loose hair must be tied back.
- Only snug fitting clothes to be worn.

⚠ At operating pressures over 5,000 psi and above, employees are required to wear protective suits made of Kevlar.

Hazards - What can cause harm?

- Exposure to ultra high pressure water - amputation
- Slip, trip and falls on uneven or slippery surface
- Slip, trip and falls on objects on ground
- Exposure to harmful substances - petrol
- Exposure to compressed air
- Struck by ejected object / flying debris
- Exposure to harmful environments
- Overexertion and bodily reaction:
 - Awkward, twisting, bending positions
 - Pushing, pulling, throwing, pressing objects
 - Repetitious movements

Precautions

Operator training should include:

- ✓ Workplace induction
- ✓ Safe operating procedures
- ✓ Manufacturer's instructions (read and understand)
- ✓ Controls on the machine
- ✓ Cutting action
- ✓ Hoses
- ✓ Use of hazardous chemicals/substances
- ✓ Use a safety observer/spotter
- ✓ Material/Safety Data Sheets (M/SDS) are available on site e.g. compressed air, lead (if stripping) etc.
- ✓ Manual handling
- ✓ Hazards involved with direct contact with high-pressure water
- ✓ Fitting of personal protective equipment
- ✓ Housekeeping
- ✓ First Aid
- ✓ Effective communication system

Restrict access to work area. Ensure:

- ✓ Exclusion zone surrounding work area using barricades and signage is in place
- ✓ Any other workers within the exclusion zone are wearing appropriate PPE
- ✓ Traffic control is in place
- ✓ A standby person (or spotter) should be allocated and used if required.

Pre-Operational Inspection: [Follow the Pre-operational checklist in the manufacturer's operational manual.](#)

- ✓ Fittings, hoses, guns and foot pedals are the correct pressure rating and undamaged
- ✓ Hoses and lines are protected from accidental damage
- ✓ Nozzles free from blockages
- ✓ Pump filter is clean and undamaged
- ✓ The hose run is flushed and air removed from the system
- ✓ Hook-up including pipes, hoses and connections is pressure tested with water at the maximum operating pressure
- ✓ Control systems are operating correctly
- ✓ Test emergency stops / Water supply is cool and clean

Operation



Horseplay with this equipment is strictly forbidden.

- ⚠ High-pressure water operation is usually performed using jet streams that can have a velocity greater than that of a 45-caliber bullet, and do as much damage
 - ⚠ Exercise extreme caution and strict compliance with procedures must be used to prevent the jet stream from striking the operator, other employees or delicate equipment
 - ⚠ No part of the body must ever be placed in front of the water jet. The jets of water can easily puncture and tear the skin, penetrate deeper causing infection or serious internal damage and amputation
 - ⚠ **NEVER use on asbestos or asbestos containing material**
1. Set up a safety zone using a physical barrier and signs displayed where they are clearly visible:
 - a. "ENTRY BY AUTHORISED PERSONS ONLY"
 - b. "DANGER – HIGH PRESSURE WATER JETTING EQUIPMENT IN USE"
 2. Set up of the Water Jet Cleaner within the safety zone, ensure:
 - a. Place pump unit as close as possible to the work area, without being contaminated by debris from operations, to reduce the amount of hose used and the area covered by the operator
 - b. Arrange hoses:
 - i. To reduce tripping hazards
 - ii. Suitably protected to prevent crushing or puncture damage
 - iii. Not running across walkways, roadways or stairways
 - iv. Restrained to restrict their movement in the event of a hose end failure
 - v. Flushed with sufficient water to remove contaminants before installing the nozzle
 - vi. Nozzles checked and cleared of debris that could cause obstructions
 - vii. Use a "Whip Check" if possible to reduce chance of hose whipping
 - viii. Attachments should be fitted as per the manufacturer's recommendations
 - c. Sufficient lighting and visibility
 - d. No electrical hazards
 - e. Safe access and egress
 - f. Remove all objects such as rocks, broken glass, nails, wire, debris, toys, or anything that may become a hazard during Water Jet Cleaner operation
 - g. Complete visibility of work area for Water Jet Cleaner operators
 - h. Access to clean water supply for use with the Water Jet Cleaner. *USE SEDIMENT FREE WATER*
 - i. Away from any ignition sources
 3. Connect the water hose and check that it is secure
 4. Connect the water supply hose to a mains water supply outlet
 5. Connect the high-pressure hose and gun
 6. Check the operation of the gun safety switch and trigger
 7. ONLY turn on the Water Jet Cleaner once set up is completed and checked
 8. Cleaning objects:
 - a. Any objects to be cleaned must be secured against movement
 - b. Small objects must be secured to a vice or similar tool
 - c. Objects should never be held manually by a person
 - d. Reaction forces should be considered and regulated based on the ability of the worker to maintain control of the jetting gun
 9. Pipe cleaning:
 - a. Check pipe cleaning jobs are set up so the nozzle cannot physically come out of the pipe when it is under pressure
 - b. Use A foot control hold-to-activate device e.g. a foot pedal
 - c. Use an anti-withdrawal device
 - d. Hoses should be clearly marked at a suitable distance from the nozzle to indicate the location of the nozzle as it is withdrawn from the pipe or tube.



NEVER point the jet stream at a person or animal.

Maintenance is to be conducted as per manufacturer's instructions and by qualified persons only.

Truck Loading SOP

Personal Protective Equipment (PPE)

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Foot Protection



Hand Protection



Sun Protection



Protective Clothing



- Rings, watches, jewellery that may become entangled in machines must not be worn.
- Long and loose hair must be tied back.
- Only snug fitting clothes to be worn.

Hazards - What can cause harm?

- Operation of powered mobile plant/vehicles
- Load – materials being handled/moved
- Falling objects
- Work at height (truck)
- Awkward, twisting, bending positions, lifting, carrying, or putting down objects, pushing, pulling, throwing, pressing objects, repetitious movements.

Precautions

- Before delivery/pickup, the following information should be provided to the driver:
 - The restrictions on the types of vehicles that can be accepted
 - Presence of any overhead services / power lines
 - Delivery times
 - Site information, including loading/unloading area, parking facilities, reception, rest rooms etc.
 - Reporting procedures on arrival and departure
 - Safety procedures on site, such as wearing high-visibility clothing, using mobile phones etc.
 - Availability and use of equipment
 - Person in charge of loading/unloading
 - Emergency contact details.
- Where required provide adequate traffic management. Include:
 - Witches hats/barricades/line markings
 - Caution signs/convex mirrors/alarms etc.
 - Exclusion zone for pedestrians
 - Driver waiting area (visible to forklift operator)
- Ensure transport documentation completed:
 - Labels
 - Number of packages
 - Weight/volume
 - Signatures are obtained as required
 - Load is as documentation describes.

Pre-Operational Inspection: [Follow the Pre-operational checklist in the manufacturer's operational manual.](#)

- Check transport vehicle before use. Ensure:
 - Fluid levels ok (oil, coolant, brake, hydraulic, transmission etc.) and no leaks
 - Brake, indicator and emergency lighting functional
 - No wear or damage of tyres and pressure ok
 - Windscreen clear, undamaged
 - Cabin and dashboard clear of debris/ stored items
 - Brakes functional (including hand/park brake)
 - Seatbelt present and fully functional
 - Other items as specified in manufacturer's operating manual (such as tailgates, temperature controls, etc.)
 - Inspect load restraint equipment
 - Ensure headboards, side gates, loading racks are strong enough for load and in good working order.

Ensure vehicle suitable for load. Check: Road worthy, Sufficient space for load, Gross Vehicle Mass (GVM), tyre and load capacity will not be exceeded, Correct design for type of load (long loads, correct load distribution)

Operation Sequence

1. Park in designated area. Designated area should be:
 - a. Clear of overhead power lines
 - b. Suitable ground (firm, compacted soil or concrete, no steep slopes etc.)
 - c. Free from pedestrians
 - d. Clear visibility and sufficient room for loading/unloading
2. Turn off engine and isolate power to vehicle
 Driver to notify/seek permission from Loading Operator if power is required for some elements of vehicle
3. Liaise with Load Operator to ensure specific procedure for loading is followed
4. Communication:
 - a. Use an effective communication system between the mobile plant operator and the driver – e.g. hand signals may be suitable in some workplaces, two-way radios in others
 - b. Use signs, lights, alarms and the like to indicate loading/unloading is in progress
5. Driver:
 - a. Prepare vehicle for loading/unloading (e.g. open doors, canvas, remove blocking/bracing equipment)
 - b. Check existing load (if relevant)
 - c. Provide information to Loading Operator about type of existing load
 - d. Remain in designated area away from loading/unloading during loading/unloading process
6. Load Operator:
 - a. Ensure sufficient/correct load restraint equipment available
 - b. Tie down points are identified by tie down decals where required
 - c. Verify all tie down equipment (lashings, chains, shackles etc.) is rated for the task
 Ensure load is restrained using performance standards to ensure load is positioned correctly, able to withstand acceleration, deceleration in different directions and movement is limited sufficiently
7. Erect sturdy barriers, such as fences or gates, around the safety zone – or, if these are unavailable, use chains or tape
8. Allow driver time to inspect load during loading/unloading
9. Confirm with driver when loading/unloading is complete
10. Driver:
 - a. Check completed load
 - b. No free spaces between packages
 - c. Ensure packages cannot move in any direction and sufficient lashings to secure load
 - d. Load documentation matches load description, including weight, volume and types
 - e. Prepare vehicle for transport (e.g.: close doors, canvas etc.)
11. Replace tarps/covers from ground level wherever possible. Avoid working at heights. Ensure sufficient friction. Check for oil, grease or excessive plastic packaging that could reduce friction and allow load movement
12. Consider use of tough rubber mats under load to increase friction where relevant
13. Ensure gaps or drop offs on loading docks are protected to prevent falls



Tarpaulins and Tautliners are designed to protect loads from external elements and are not to be used for load restraint.



Maintenance is to be conducted as per manufacturers instructions and by qualified persons only.

Vacuum excavator SOP

Personal Protective Equipment (PPE) AS 1319-1994 Safety signs for the occupational environment reproduced with permission from SAI Global under licence 1210-c062. Standards may be purchased at <http://www.saiglobal.com>



➤ Do not wear rings, watches, jewellery that may become entangled in machines.

➤ Long & loose hair must be tied back.

➤ Only snug fitting clothes to be worn.

Hazards - What can cause harm?

- Plant Roll-over
- Entrapment
- Struck by moving plant
- Overhead power lines, underground services
- Exposure to fluid under pressure
- Fire/explosion
- Noise
- Struck by water under pressure
- Hazardous Manual Tasks – lifting, carrying, setting down, vibration etc.

Precautions:

Operator training should include:

- Construction Induction Card
- Workplace induction
- Manufacturer's instructions
- Nature of hazards
- Communication
- Traffic Management Plan
- Exclusion Zones
- Safe Work Method Statements
- Fitting of PPE
- Manual handling
- First Aid.

Machine Licensing

When the machine is to be operated on public roads, it must be registered and/or licensed as required by the relevant State or local authority.

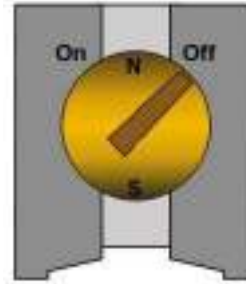
Maintenance / Cleaning:

Follow LOTO procedures, record service/repairs information in Maintenance Log.

1. **Conduct Pre-start checklist** prior to starting operations, check:

- Hoses and connections
- For leaks, damage and excessive wear
- All fluid levels
- All safety decals are in place and legible
- Filters and clean as required using the wash wand – *DO NOT USE THE POTHOLING LANCE TO CLEAN FILTERS OR ANY OTHER PART OF THE MACHINE*
- All guards are in place before starting the machine – *ONLY REMOVE GUARDS WITH THE MACHINE TURNED 'OFF' AND THE KEY REMOVED*

⚠ In an **EMERGENCY** turn the dial to the 'OFF' position to **STOP** the machine



2. Connect the tooling.

- a. Connect the suction hose to the tank
- b. Place the clamps around the back of the retaining ring and secure the locking lever
- c. Pull high-pressure hose from hose reel
- d. Connect suction tool to the suction hose
- e. Secure the high-pressure water hose to the potholing tool

3. Open the vacuum valve into the tank

4. Start the machine and when the engine is at operating speed, engage the high-pressure water switch. There is a second switch located at the rear of the machine

5. Switch the lever in the vacuum position

6. Commence excavation using the potholing lance, ensure:

- a. Wear PPE (hearing protection, face shield/eye goggles, steel cap boots, etc.)
- b. Clear ground of any loose material
 - i. *Never point Potholing Lance at persons or use for any other purpose*
 - ii. *Do not smoke during operation*
 - iii. *Do not use mobile phone during operation*

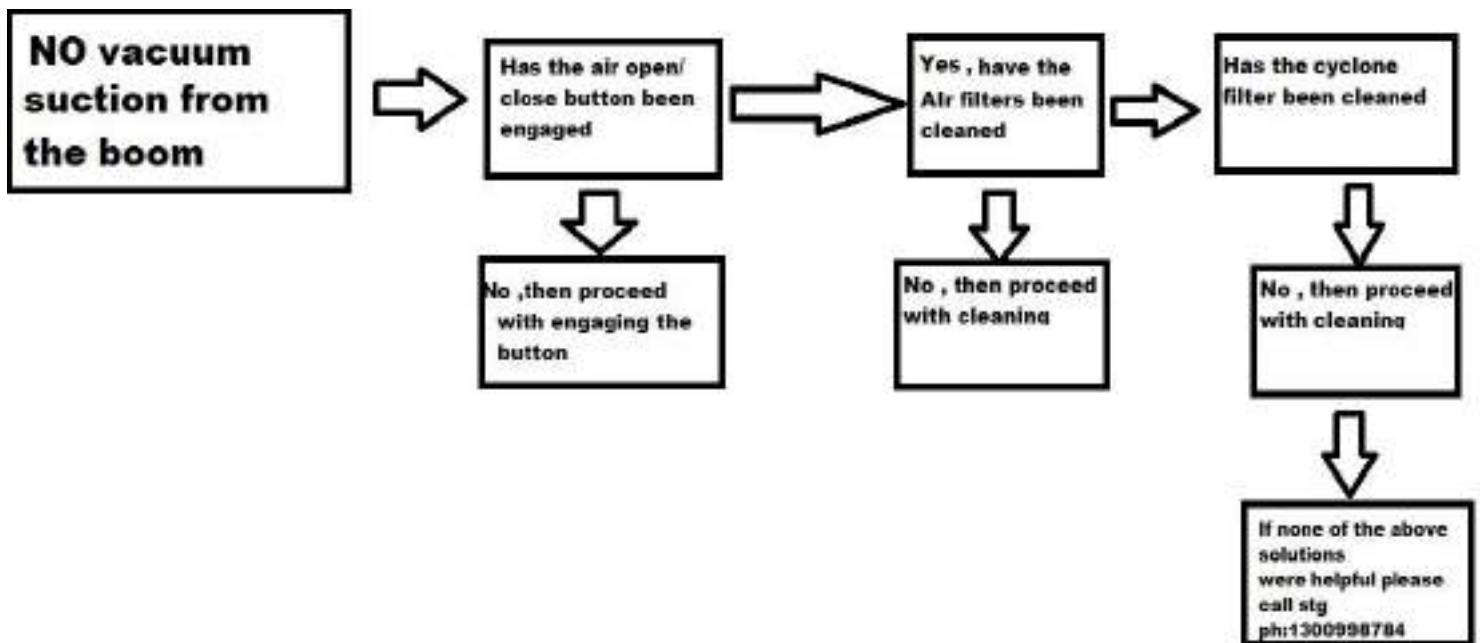
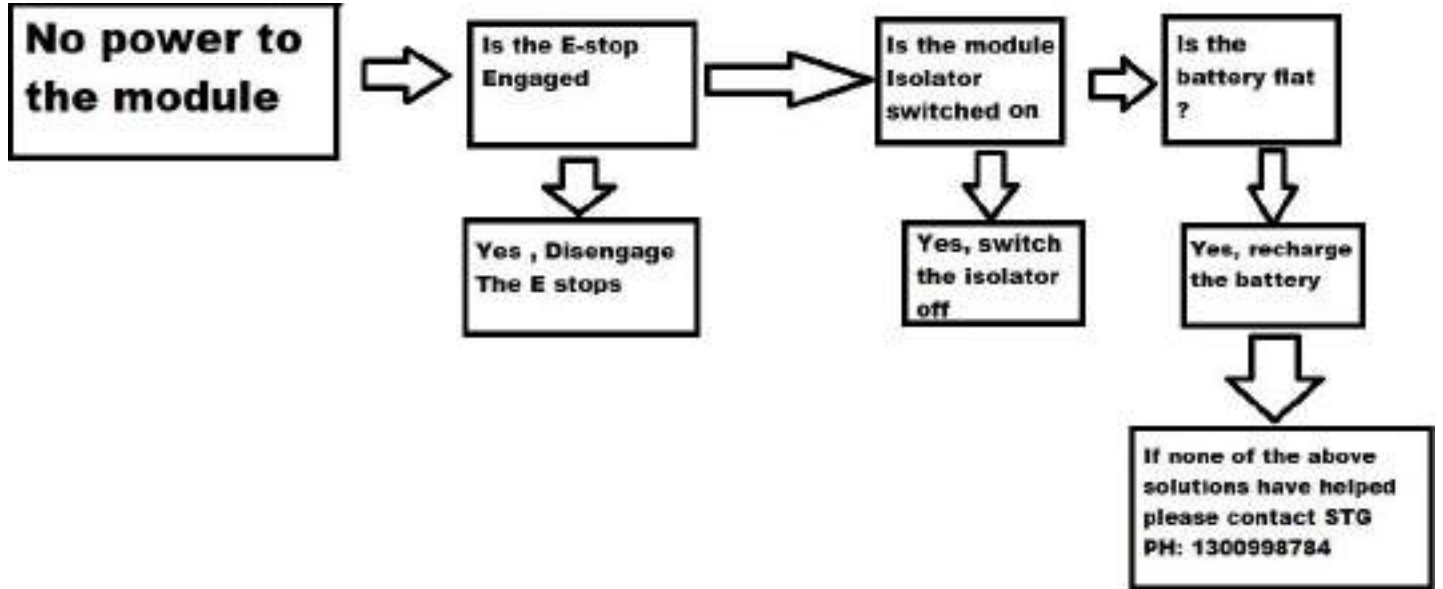
7. Empty the spoil tank, with the engine running:

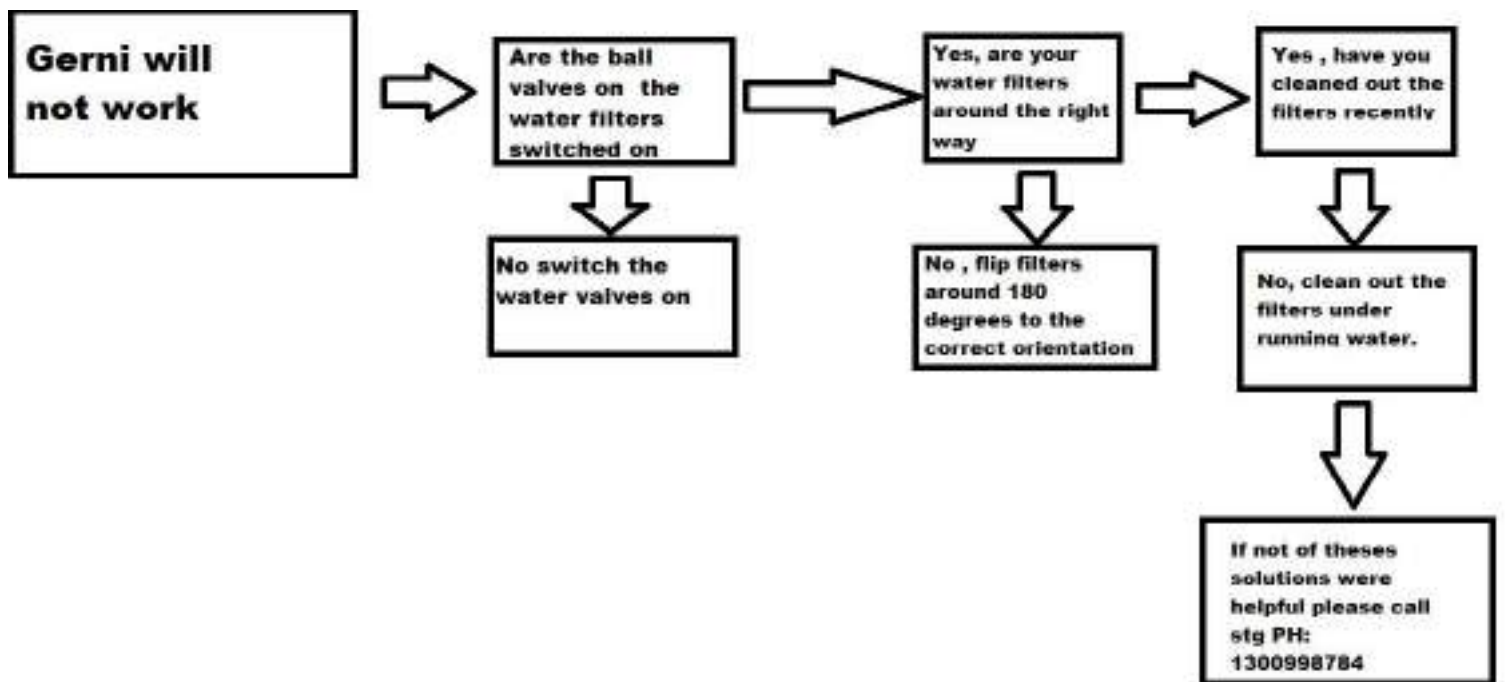
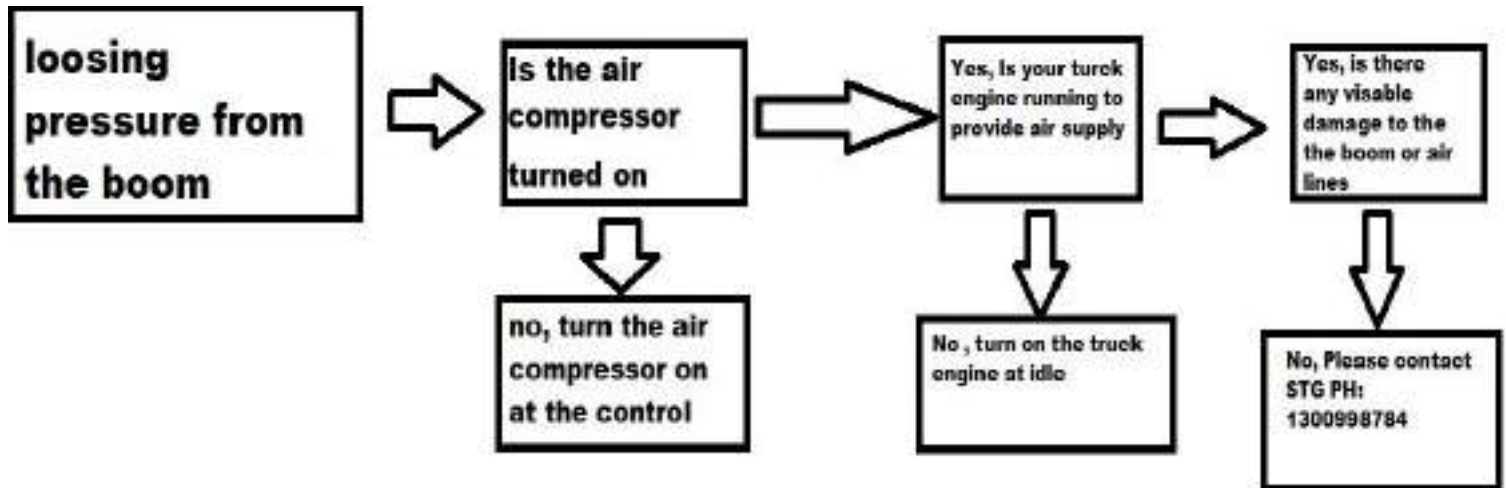
- a. Engage the machine hydraulics
 - i. The tank must be under vacuum to release the door handle
- b. Release the lock by pushing the lever down
- c. Open the valve to relieve the vacuum
- d. Raise the door by pressing the door switch

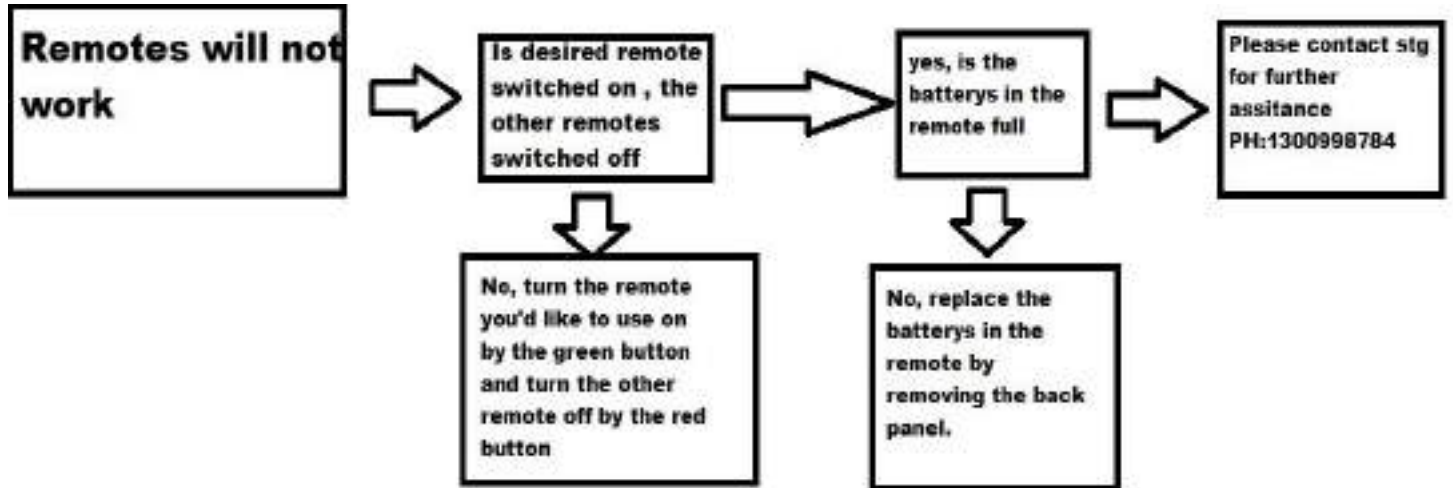
Raise the tank by pressing 'UP' on the tank tilt

8. When the tank is empty, reverse the process and secure the door.

Troubleshooting







**Any further issues please contact STG Global
PH:1300998784**

Serial number Location

All components used in STG Global's Products have different serial numbers that go with the parts. For the customer convenience STG Global has created a Plaque that contains serial numbers, this plaque can be found inside of the control panel.



If this plaque isn't installed on your HDV 6000 you will find the following Serial Numbers here.

Engine Serial Number is located on the right-hand side of the Engine Block, just above the Oil Sump.



Blower Serial Number is located on the bottom right-hand side of the Blower.



Blower belt size will be located on the top side of the belts coming off the Blower



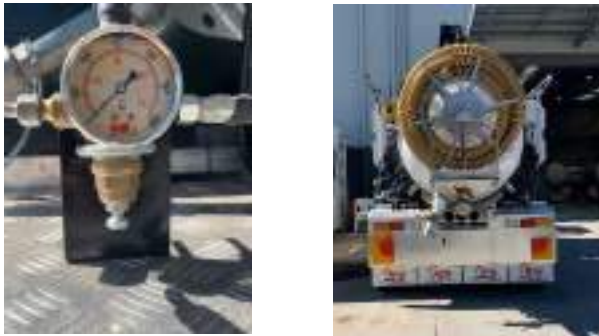
Gerni Model will be on the top side of the Gerni Pump



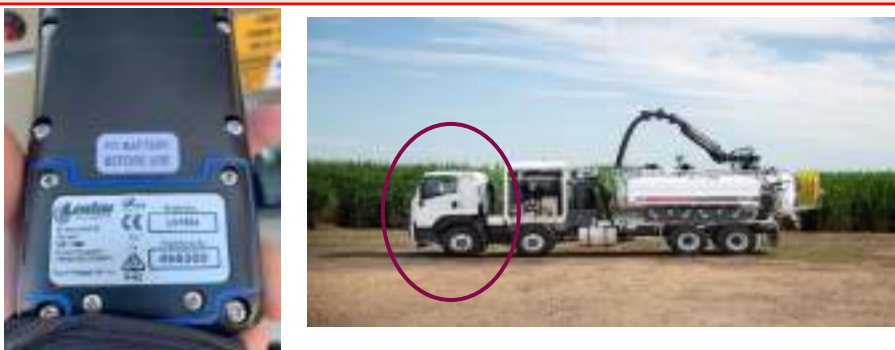
Gerni Belt size will be located on the top side of the belts coming off the Gerni



Unloader model will be located on the Unloader Valve



Remote Serial number will be located on a sticker on the back of the remotes



Sundrive and Loader units both run off Auto Channelling System. (Remotes will be located in the cab of the truck)

Parts and Service

To book a service please go to the **STG Global app** or call **1300 998 784**

Please visit the Parts Store on the **STG Global app** or www.stgparts.net



STG PARTS VACUUM TRUCK CRITICAL PARTS

 Vacuum Box Filters	 Unloader Valve	 Hose Reel Roller	 Trigger Gun
 Stagon Water Filtering System	 Mesh Filter For Stagon Water Filter	 O Ring For Stagon Water Filtering System	 Boom Roller
 Vacuum Tank Sight Glass	 Gerni Belts	 Hose Reel	 Blower Belts

Also recommended are PVC to Tigertail Adapter, 3/8 QR Hose to Trigger Fitting, Water Sight Gauge.

 parts@stgglobal.net
 www.stgparts.net



- STG Global advises that all HDV8000 operators keep all these spares in the HDV8000 at all times
- To order these parts Please visit the Parts Store on the **STG Global app** or www.stgparts.net

Warranty

When purchasing a new HDV8000 the unit comes with a one year or 1000-hour Warranty whichever comes first on STG Global installed components.

If you have any questions regarding your factory warranty, please call **1300 998**