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SINCE 1943

Urban Warrior
Skid Mount Sewer Jetter

Spartan Tool LLC
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www.spartantool.com

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Warnings

- Read the safety and operating instructions before using any Spartan Tool products. Drain and sewer cleaning can be dangerous if proper procedures are not followed and appropriate safety gear is not utilized. Read the engine owners manual for instruction and safety precautions on engine operation.

- Gasoline is extremely flammable and is explosive under certain conditions.
  - Refuel in a well ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where the engine is refueled or where gasoline is stored.
  - Do not overfill the fuel tank (there should be no fuel in the filler neck). After refueling, make sure the tank cap is closed properly and securely.

- Before starting unit, be sure to wear personal protective equipment such as safety goggles or face shield and protective clothing such as gloves, coveralls or raincoat, rubber boots with metatarsal guards, and hearing protection.

- Carbon monoxide exhaust and/or gasoline fumes from this equipment can create a hazardous atmosphere in confined spaces (which may include, but are not limited to, manholes and septic tanks), closed garages or other areas which may not be properly ventilated. In particular, excess gasoline fumes can create an explosion hazard. Such hazardous atmospheres can cause death or severe injury. Do not operate this equipment in any confined space or area with inadequate ventilation. Operate this equipment only when located outdoors or in an open, well ventilated area.

- Insure the jet hose has been placed in the pipe (minimum of 6 feet suggested) before engaging the water pressure to prevent the hose from coming out of the pipe prematurely and causing injury.

- Always shut the water pressure off before pulling the hose out of the pipe. Mark the hose a minimum of 6 feet from the end to help insure the hose is not accidentally pulled out of the pipe while still under pressure. Shut off the water pressure when the hose mark is encountered.

Caution:
Portions of the system can still be under pressure even if the unit is not operating.

- Never point the wash gun at anyone while operating the unit. Injury may result.

- Drains and sewer can carry bacteria and other infectious micro-organisms or materials which can cause death or severe illness. Avoid exposing eyes, nose, mouth, ears, hands and cuts and abrasions to waste water or other potentially infectious materials during drain and sewer cleaning operations. To further help protect against exposure to infectious materials, wash hands, arms and other areas of the body, as needed, with hot, soapy water and, if necessary, flush mucous membranes with water. Also, disinfect potentially contaminated equipment by washing such surfaces with a hot soapy wash using a strong detergent.

- For any questions contact the company at the address shown below.

“California Prop. 65: This product may contain an extremely small amount of lead in the coating. Lead is a material known to the State of California to cause cancer or reproductive toxicity.”
**USE**
- The integrated engine drives the high-pressure pump via a multi V-belt drive.
- This pump receives water from the water tank via the water filter and pressurizes it.
- The pressure can be continuously adjusted.
- The pressurized water leaves the machine via the high-pressure hose on the reel.

**180° PIVOTING HOSE REEL**
- The hydraulic hose reel pivots 180° from the front of the unit for more flexible hose dispersion and is held in position by the electronic swivel locking device.

**eCONTROL+ CONTROL PANEL**
- The eControl panel with LCD screen allows intuitive operation of the machine.
- An easy-to-use jog-wheel guides you quickly through a clear menu system with all machine functions available with a single click.
- The integrated LED warning lights indicate machine status at a glance.
- Functions displayed include control lights for the Engine, Run Dry Protection, ECO Function and Service Interval.
- The compact design and low weight maximizes the payload capacity of the vehicle and is commonly installed into standard vans.

**LARGE CAPACITY HOSE REEL FOR UP TO 450 FT HP HOSE**
- The high-pressure hose reel pivots through 180 degrees for optimum working conditions in all circumstances.
- The freewheel system ensures that the hose reel can be coiled off without any friction of the hydraulics reducing the effort required to operate the hose reel.
- The high-pressure jetting hose fitted to the Urban Warrior is the lightest hose in its class.
- The smooth inner surface and widened inner core results in an increase of 12% effective working pressure at the nozzle.
Urban Warrior Features

**USER FRIENDLY**

- Newly designed covers protect the user from rotating parts and reduce the noise levels of the machine to a minimum.
- The covers are easily removed for quick access to the engine and pump when servicing is required.
- With an easy fill fuel tank and special forklift lifting provision the Urban Warrior is extremely user friendly.

**ELECTRIC HOSE REEL LOCKING MECHANISM**

- Electric hose reel locking device releases the hose reel swivel to allow positioning and then locks the hose reel in place when released.

**ECO PACKAGE OPTION**

- The ECO package helps you to save water and fuel.
- The start/stop system shuts off the engine automatically when the pump is on with no high pressure flow.
- The built up pulsator significantly reduces the consumption of water by sending pulses through the hose.
- Insulated machine covers and a special stainless steel exhaust system reduce noise levels to a minimum.
### Description - Components

**URBAN WARRIOR COMPONENTS**

1. High-Pressure Hose  
2. Supply Hose  
3. Manual HP Valve  
4. Tank Supply Pipe  
5. Water Filter Guide  
6. Drain Valve/Draw-off Tap  
7. Pressure Regulator Hand-wheel  
8. Pressure Gauge  
9. Water Supply Valve  
10. Tank Supply Connection  
11. Water Tank  
12. Hand-hole  
13. HP Hose Reel  
14. Cover Locks  
15. Supply Pipe Connection  
16. Covers
URBAN WARRIOR COMPONENTS

1. High-Pressure Hose  
2. Supply Hose  
4. eController  
5. Switch Box  
6. Emergency Stop  
10. Drain Valve/Draw-off Tap  
11. Pressure Regulator Hand-  
12. Pressure Gauge  
13. Swivel Locking Device  
14. Cover Lock  
15. Water Supply Valve  
18. Water Tank  
22. Fuel Tank  
23. HP Hose Reel  
28. Supply Pipe Connection
URBAN WARRIOR COMPONENTS

2. Supply Hose
3. Reel Locking Device
4. eController
5. Switch Box
9. Water Filter Guide
10. Drain Valve/Draw-off Tap
11. Pressure Regulator Hand-wheel
12. Pressure Gauge

15. Water Supply Valve
16. High Pressure Pump
20. Valve Supply Hose
21. Engine
26. Oil Reservoir
27. Battery
28. Supply Pipe Connection
URBAN WARRIOR COMPONENTS

4. eContoller
5. Switch Box
6. Emergency Stop
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13. Swivel Locking Device
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**eController Functions**

Spartan Tool Company provides several options on the Urban Warrior Skid Mount Sewer Jetter. As a result there are multiple eControl configurations to accommodate the features available on any particular unit.

This section of the manual will cover available functions of the Two Function eController and the Four Function eController.

The two figures below identify the two function and four function eController.

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**2 Function eController**

The Two Function remote is identified by the two “Blue Function Indicators“ at the top of the LCD display.

The Two Functions Include:
- Counter Function
- Maintenance Function

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**4 Functions eController**

The Four Function remote is identified by the four “Blue Function Indicators“ at the top of the LCD display.

The Four Functions Include:
- Counter Function
- HP Hose Reel Control
- ECO Mode
- Management Function
The Corona on the eController is normally OFF (Gray)

Blue Corona indicates-
Set to Remote Control

Red Corona indicates-
eController Error

Reference page 31, “eControl Errors” for alarm functions.

Green Corona indicates-
Switched OFF by ECO Start/Stop System

Orange Corona indicates-
Pre-start functions or one of two error conditions.
- Run Dry (no water in tank)
- Error Oil level
Push Buttons/Indicating Lights

- When the key is turned to Position 1 (Manual Mode) the “Work Safe” message is displayed.
- Then the screen will shift to the Alert with an orange corona if alerts are present. Alerts must be manually cleared using the navigator knob.
- Once cleared the LCD display will indicate the Manual Mode and then default to the first navigator icon “Alert”.
- At this point any of the other navigator functions can be selected using the navigator knob.
Description - Controls

Navigation Bullets

The navigation bullets have two general states:

- Passive (Gray)
- Active (Blue)

Depending on the user’s location in the menu, one bullet is on display, or in case of a pop-up eController Error, all navigation bullets disappear. (See page 31 “eController Errors for list of pop-up displays”)

Features in navigation bullets are in specified order, if applicable:

Error  
Home  
HP Hose Reel Control  
ECO Mode  
Management

The “Error” navigation icon is only visible and can be navigated when an error is applicable.

The “Home” navigation button is the default position and normally displays Engine Run time and HP Hose Counter.

eController Functions

HP Hose Reel Mode.

When the eController is selected to HP Hose Reel the LCD displays the hose position and the “UP” / “DOWN” control positions. The hose reel is actuated by rotating the navigation knob clockwise to select “Down” and counter clockwise to select “Up”.

The speed of the hydraulic drive is constant but can be adjusted using the hydraulic speed control unit. (see 23, “Rewind Hose Using Hydraulic Reel”)
**ECO Mode**

When the eController is selected to ECO Mode the LCD displays the status the ECO Mode, either ON or OFF. The default is ECO Mode “ON” whenever the engine is started.

In ECO Mode the eController controls the High Pressure Valve and the Speed of the Engine during periods when flow is not being used. If there is no operator action is taken within 30 seconds, the engine will automatically shutdown.

*(See page 24 in the “Operation Section” for a more detail description of ECO Mode operation.)*

**Management Mode**

When the eController is selected to Management Mode, the LCD displays a menu of three functions that can be selected by rotating the navigation knob and activated by depressing the navigation knob.

- Selecting “Software Version” displays the current version of the controller software.
- Selecting “Service Interval” displays the days and run hours until maintenance is required.
- Selecting “Hose Counter” displays the length of hose off the HP hose reel.

**Pulsator Mode (If Available)**

When the eController is selected to Pulsator Mode, the LCD displays the Pulsator status indicator and the ON/OFF icon.

The Pulsator function is controlled with the Navigator knob to turn the Pulsator function ON and OFF.

When the Pulsator icon is illuminated the Pulsator function is active.

**Tachometer**

The pointer which indicates the engine’s RPM should always display the current RPM.
The Riomote® radio remote control consists of a large waterproof and shockproof hand held sender and a unit mounted receiver. The system is provided with separate batteries (lifetime of 8 hours) and is supplied with a battery charger.

**Unit Mounted Receiver**

The Riomote receiver is mounted above the switchbox on the Urban Warrior.

The receiver is powered by the Urban Warrior electrical system.

Lights on the receiver indicate “power available” to the unit and “enabled”.

The “enabled” light illuminates when the unit is paired with the Riomote control.
WARNING: READ THE “OPERATOR’S MANUAL” THOROUGHLY BEFORE USING ANY SPARTAN TOOL PRODUCT. DRAIN/SEWER CLEANING CAN BE DANGEROUS IF PROPER PROCEDURES ARE NOT FOLLOWED. KNOW THE PROPER OPERATION, CORRECT APPLICATIONS AND THE LIMITATIONS OF ALL SPARTAN TOOL PRODUCTS BEFORE USE.

Emergency Stop

This machine is equipped with an Emergency Stop. By operating the Emergency Stop, the machine will shut down. Do not use this button for normal stopping. Only use it when dangerous situations occur. After use, remove the danger and then rotate the Emergency Stop button clockwise to be able to start up again. Ensure the Emergency Stop can always be reached.

Pressure Regulator

The Pressure Regulator functions to ensure that the working pressure never gets too high. It functions like a safety valve relieving water to the storage tank to reduce pressure.

Safety Covers

This machine is equipped with Safety Covers over rotating equipment. DO NOT remove the Safety Covers during operation of this machine. They should only be removed to perform maintenance on the machine while the machine is stopped.

Personnel Protection Equipment

The following personal protection equipment should be worn by personnel operating or working with the Urban Warrior:

- Ear protector
- Protective safety glasses
- Gloves (Recommended)
- Waterproof work clothing (Recommended)
- Spray boots for use with the spray gun (Recommended)

Work Area

The following precautions must be observed when establishing a work area for use of the Urban Warrior:

- Clearly mark the work area.
- Maintain a minimum distance of 20 feet from the work area.
- Remove all lose materials from inside the work area.
- Never spray from an unstable surface (ladder, boat, scaffold,...).
- Never use in a Confined Space (Closed Room)
- Ensure there are no combustible materials in the area.
- The room must be adequately ventilated to prevent accumulation of carbon monoxide.
- DO NOT use corrosive chemicals in conjunction with the Spartan sewer jetters. Only environmentally approved chemicals should be introduced into drain lines
Safety Instructions

General Precautions
- Do not let the machine operate without supervision.
- Keep children and animals away from the machine.
- DO NOT spray on humans or animals. IF the skin is penetrated immediately seek medical attention.
- Prevent damage by spattered or flying parts.
- Look out for electric connections and other electric components if you are cleaning with a spray gun!
- Never block the controls in any way.
- Put personal protection equipment on BEFORE you start the machine.
- Ensure that the spraying nozzle does not leave the drain.

Safety Stickers
1. Safety Glasses, Hard Hats, and Hearing Protection are Required.
2. Safety Shoes are Required.
3. Be familiar with the User’s Manual
4. Hand protection is required.
5. Wear protective clothing against caustic material.
6. No eating or drinking.
7. Slipping Hazard
8. Pinching Hazard (Hand Injury)
9. Rotating Machinery
10. Warning, Machine Auto Start
Mechanical Operation

Check Before Departure

Before you drive away with the vehicle, check the following:

1. The high-pressure hose been inserted into the hose holder (23) and secured with the locking pin.
2. The high pressure hose reel is locked and the control position is in position “B”. (see page 23 “Hydraulic Reel Control” for additional information)
3. The supply hose is connected to the GK coupling (17).
4. The supply hose reel is locked by means of the reel locking device (3).
5. IF temperatures are below freezing, the water tank has been emptied and the piping system drained and flushed with antifreeze. (see page 36, “Cold Weather Operation”)
6. The vehicle is now ready for departure.

Placement of Urban Warrior

1. Put the vehicle at the desired location and set the parking brake.
2. Block the tires if using on an incline or uneven surface.
3. Mark the working area by establishing barriers to prevent inadvertent access to the work area.

Prior to Starting

1. Ensure there is adequate fuel in the fuel tank for the intended task (22).
2. Ensure the water filter (9) is clean. Clean the filter, if necessary.
3. Check the supply valve (15) to the water filter is open.
4. Check the high-pressure valve (7) at the HP hose reel is closed.
5. Fill the water tank via the supply pipe (28) or the supply hose reel. (The maximum water temperature is 55°C)
6. Loosen the control wheel of the pressure regulator (11). (Rotate counter clockwise)
7. Attachment the nozzle onto the high-pressure hose.
Starting the Engine

Emergency Stop:
The machine is equipped with an emergency stop. By operating this stop the machine will shut down. Do not use this button for normal stopping. Only use when dangerous situations occur. After use, rotate the emergency stop clockwise to be able to start up again. Make sure the emergency stop can always be reached.

Warning!
Put on protective safety glasses and ear protection before starting machining.

1. Put the key in the eController key switch.
2. Turn the key clockwise to position 1 “Manual Control ON”.
   • “Work Safe” is displayed for 2 seconds.
   • Icon “Manual control ON” is displayed for 2 seconds.
   • Then the main menu is displayed.
   • ECO mode is always active “ECO Start/Stop” or “ECO Stop” if the unit is supplied with the ECO Function.
3. Check the error icon.
   • IF the error icon is visible, then check the eController Error Icon. (See page “eController Errors” 31, for description of errors.)
Mechanical Operation

4. Depress the engine button (39) for 2 seconds.
   • “Pre-heat” (A) and “Corona-orange” lights energize for 5 seconds. (Gasoline engines have the “Pre-heat” light but with no function!)
   • The engine starts.
   • With the engine running the “Engine LED” (38) lights and the blue “Engine ON” light (39) is displayed for 2 seconds.
   • THEN the main menu is displayed after 5 seconds.

5. Increase (clockwise) or decrease (counter clock-wise) RPM by turning the Navigator (44).

6. Depress the Navigator knob (44) to display the “Navigation bullet” menu.
   • Let the engine warm up. After 3 minutes the machine is ready for use.

Electrical Swivel Locking Device

1. Push button (A) to unlock swivel arm
2. Put the swivel arm in the desired position.
3. Release button (A) to lock the swivel arm again.
Hydraulic Reel Control

By pushing the control lever upwards (position A) or downwards (position B) the high-pressure hose can be rolled up or unrolled.

Due to the proportional functioning of this valve you can control the speed of the reel by movement away from the center (position B).

By putting the lever into position “D” you can unroll the hose manually.

Warning!

Never block the lever and always control it with one hand while guiding the high-pressure hose by means of the hose guide with the other hand.

A clutch assembly (30) on the HP hose reel drive unit can be disengaged to allow the reel to free wheel for pulling the hose manually long distances.

High Pressure Hose Guide

Purpose is to guide the HP hose onto and off of the reel.

- Put the end of the HP hose through the opening of the hose guide (24).
- Moving the hose guide right and left guides the hose evenly on the hose reel.
The ECO Mode is available if the unit is supplied with a four function eController. ECO Mode functions of close the HP valve and reduce engine RPM during periods of inactivity sensed by spray flow.

To change/disble ECO mode, the engine must be running.

ECO Mode defaults to ON” when the engine is started.

When the ECO Mode is “ON”, the ECO Mode icon (Green Leaf) is illuminated and the ECO function is active.

- To turn the ECO Mode “OFF”, select the ECO Mode function using the Navigation dial to activate “ECO Mode “OFF”.
- ECO Mode icon (Green Leaf) extinguishes.

To turn ECO Mode “ON”, turn the Navigation dial clockwise and depress the dial to activate.

- ECO Mode is “ON”.
- ECO Mode icon (Green Leaf) illuminates.

“ECO Mode” Operation

- High Pressure valve closes.
- Engine RPM decreases.
- Engine stops after 30 seconds with no operator action.
- To restart press the “Engine Start” button.
- Press the “High Pressure ON” button.
- Water comes out of the high pressure hose.
- Increase engine RPM to adjust pressure and water flow.
Management Mode

1. Rotate the “Navigator” dial (44) to set the navigation bullet to position 4 “Management”

2. Depress the “Navigator” dial to activate the “Management” function.
   - The Navigation bullet extinguishes.
   - The Management Underline illuminates.

3. Once the Management function is activated the three menu options are displayed which include: Software Version, Service Interval and Hose Counter.

4. Each menu item can be displayed by selecting the item with the navigation dial and depressing the dial to activate the selection.
Remote Control Operation

Riomote Controller

**Purpose**: To operate the high-pressure machine from a distance.

**7 Channel Riomote Control Functions:**

1. Throttle down
2. Throttle up
3. Stop spraying
4. Start spraying
5. Stop the engine
6. Start the engine
7. Emergency stop
Emergency Stop Test

Check that the emergency stop works before working with the Rio-mote Control. Proceed as follows:

1. Insert the key into the eController keyswitch (46).

2. Turn the key to position 2 “Radio Control ON”.
   - “Work Safe” is displayed for 2 seconds.
   - “Riomote Control ON” is displayed continuously.
   - Corona illuminates blue and is blinking.

3. Switch the Riomote Control ON
   - Press and Hold the START button on the Riomote to link the Riomote with the Urban Warrior.
   - Release the START button when the blue corona stops blinking.
   - Corona is continuous “Blue” when the Riomote control has contact with the receiver.

4. Start the engine using button (6) “Start the Engine” on the Riomote controller.

5. Depress button (7) the “Stop” button to exercise the Emergency Stop function.

Note!
If the engine does NOT stop using the Riomote controller, contact your supplier.

Battery Indication

If the “Battery Indicator” on the Riomote controller lights continuously the battery must be recharged.
Operating Instructions

Cleaning a Drain-line

1. Attach a suitable nozzle onto the high-pressure hose.

2. With the hose reel “Out of Gear”, pull the hose through the hose guide (24) to facilitate guiding the hose.

3. The hose can be unwound short distances with the hydraulic hose reel “out of gear”.

4. Put the nozzle into the drain to be cleaned.

5. Rotate the pressure regulator (11) clockwise to increase pressure to the desired value on the pressure gauge (12).

6. Depress the “High Pressure ON” button (41).
   - Water begins spraying out of the nozzle at the end of the hose.
   - “High Pressure LED” (40) lights blue.
   - “High Pressure ON” is displayed on the LCD screen for 2 seconds.
   - Then the main menu is displayed on the LCD screen after 5 seconds.

7. Increase or decrease RPM by turning the Navigator knob.

8. The Hose will now unwind and work its way into the drain.
9. Check that the water drains away indicated by increase flow in the drain line.

10. When the blockage has been cleared, continue to flush while rewinding the high pressure hose.

---

**Caution!**
Ensure that the spraying nozzle does not leave the drain while spraying!
**Water under high-pressure may cause severe injury!**

---

**Stop Spraying**

1. Depress the “High Pressure” button to shut the high pressure valve.
   - “High Pressure LED” extinguishes.
   - “High Pressure OFF” appears on the LED display for 2 seconds.
   - Water spray at hose nozzle stops.
   - Engine RPM decreases.

2. Care of the HP hose.
   - Always clean hose after use.
   - Ensure there are no sharp objects near the hose.
   - Ensure vehicles do not cross over the hose.

---

**Important!**
Rewind hose onto reel under pressure to avoid crushing.
If machine has run out of water, ensure hose is unwound before pressurizing.

---

**Rewind Hose Using Hydraulic Reel**

1. Move the hydraulic reel control lever from the “out of gear” (D) position to the “reel locked” (B) position.
2. Push the hydraulic reel control lever upward to rewind the HP hose.
   - Upward motion of the lever increases the speed of the reel proportionally.
   - Use the hose guide to align the hose so it rewinds on the reel evenly.
3. Once the hose has been stored on the reel, ensure the lever is in the reel locked position (B) and the hose reel clutch is engaged.
4. The hydraulic speed control unit (F) can be adjusted to control the range of speed when using the hydraulic reel control lever.
Operating Instructions

Cleaning a Wall, Terrace or Floor

1. Attach the spray gun (B) onto the high-pressure hose.
2. Completely unroll the high-pressure hose.
3. Attach the spray lance gun (C). Secure the quick coupling tightly.
4. Open the manual HP valve (7).
5. Depress the “High Pressure” button ON.
6. Throttle up the engine speed by rotating the Navigator dial clockwise.
7. Rotate the HP regulator hand wheel (11) clockwise until the desired operating pressure is reached when the spray gun is open.

Secure from High Pressure Cleaning

1. Depress the “High Pressure” button to shut the high pressure valve and throttle down the engine.
2. Close the manual HP valve lever (7).
3. Depress the “Engine ON” button for more than 1 second to stop the engine. At the same time wind the hose up slowly.

Caution!

Before using a spray gun, set the jetter pressure below the maximum spray gun pressure. (+/- half the maximum spray gun pressure). Do this prior to starting the engine. Once the engine is running, jetter pressure can be increased by turning the HP regulator handwheel to the working pressure. DO NOT exceed the green band pressure on the pressure gauge.
**Emergency Stop**

1. The Emergency Stop icon illuminates on the eController when the Emergency Stop button is depressed.
   - Engine stops
   - High Pressure Valve closes
   - Pulsator Valve closes
   - Hose Reel switches OFF
   - ECO Mode switches ON
2. Operation can only be restarted after rotating the Emergency Stop button to release it.

**Engine Temperature**

1. The Engine Temperature icon illuminates when high engine temperature is detected.
   - Engine stops
   - High Pressure Valve closes
   - Pulsator Valve closes
   - Hose Reel switches OFF
   - ECO Mode switches ON
2. The operator can dismiss the alarm by depressing the Navigator in Manual Mode.
3. Operation can only resume after engine temperature has cooled.
Heat Exchanger High Temperature

1. The Heat Exchanger High Temperature icon illuminates when high temperature is detected.
   - Engine stops
   - High Pressure Valve closes
   - Pulsator Valve Closes
   - Hose Reel switches OFF
   - ECO Mode switches ON

2. The operator can dismiss the alarm by depressing the Navigator in Manual Mode.

3. Operation can only resume after heat exchanger temperature has cooled.

Hydraulic Oil High Temperature

1. The Hydraulic Oil Temperature icon illuminates when high hydraulic oil temperature is detected.
   - Engine stops
   - High Pressure Valve closes
   - Pulsator Valve Closes
   - Hose Reel switches OFF
   - ECO Mode is unchanged

2. The operator can dismiss the alarm by depressing the Navigator in Manual Mode.

3. Operation can only resume after the hydraulic oil temperature has cooled.

Oil Level

1. The Oil Level icon illuminates when low engine oil level is detected.
   - Engine stops
   - High Pressure Valve closes
   - Pulsator Valve Closes
   - Hose Reel switches OFF
   - ECO Mode is unchanged

2. The operator can dismiss the alarm by depressing the Navigator in Manual Mode.
**Coolant Level**

1. The Coolant Level icon illuminates when low engine coolant level is detected.
   - Engine stops
   - High Pressure Valve closes
   - Pulsator Valve Closes
   - Hose Reel switches OFF
   - ECO Mode is unchanged
2. The operator can dismiss the alarm by depressing the Navigator in Manual Mode.
3. The operator must refill the coolant level in order to restart the engine.

**Battery Charge**

1. The Battery Charge icon illuminates when low battery voltage is detected.
   - Engine stops
   - High Pressure Valve closes
   - Pulsator Valve Closes
   - Hose Reel switches OFF
   - ECO Mode is unchanged
2. The operator can dismiss the alarm by depressing the Navigator in Manual Mode.

**Run Dry**

1. The Run Dry icon illuminates when low level is detected in the water tanks.
   - Engine stops
   - High Pressure Valve closes
   - Pulsator Valve Closes
   - Hose Reel switches OFF
   - ECO Mode is unchanged
2. The operator can only continue after depressing the Navigator dial in manual mode to dismiss the Run Dry alert.
3. The High Pressure LED starts blinking. Pressing and holding the related button in Manual Control allows the user to bypass the Dry Run Alert.
eController Errors

Service Interval

1. The Service Interval icon illuminates when any of the maintenance intervals have been exceeded. The error is also listed under the Management function on the eController
   - Engine stops
   - High Pressure Valve closes
   - Pulsator Valve Closes
   - Hose Reel switches OFF
   - ECO Mode is unchanged
2. After running 360 days or 250 hours (whichever comes first) the error message is displayed.
3. The operator can dismiss the message by depressing the navigation dial in manual mode.
4. Machine operation can continue after the error is dismissed.
5. The message will reappear the next time the machine is started.
Purpose:
The suction venturi is used to pump liquid out of sumps.

Preparations:
Check there is adequate water in the Urban Warrior water tank to support venturi operation.

Use:
1. Connect the HP hose onto the coupling of the suction venturi (A).
2. Place the suction venturi in the sump to be pumped (B).
3. Secure the transparent hose where water will be drained from the sump (C).
4. Verify that the manual HP valve (7) is closed.
5. Start the machine.
6. Switch on the high-pressure pump.
7. Open the manual HP valve to initiate flow through the venturi.
8. To stop suction:
   • Close the manual HP valve.
   • Stop the engine.
9. Uncouple the HP hose from the venturi.
Cold Weather Option (Anti-Freeze Tank)

Using the Anti-Freeze Tank

Your high-pressure device may freeze up during cold weather conditions. A number of safety precautions must be taken.

Additional preparations before departure:

1. Drain the water tank on the Urban Warrior by opening the drain valve.
2. When all water has been removed/drained, remove the water filter.
3. Clean the filter then reinstall it in the opposite direction.
4. Close the drain valve.
5. Remove the hand cap on the antifreeze tank and fill with 25 liters of antifreeze.
6. Remove the nozzle attachment from the HP hose and attach the HP hose to the Anti-Freeze tank connection (A).
7. Open the antifreeze valve (B).
8. Override the “Dry Tank” warning by depressing the Navigation Dial then depress the “Engine Run” button to start the engine.
9. Ensure the HP valve lever on the machine is open.
10. Depress the “High Pressure” ON push button on the eController.
11. Let the high-pressure pump remove all the water, which is still in the high-pressure hose and pump.
12. Close the high-pressure valve or push button HP OFF, when antifreeze flows out of the HP hose.
13. Connect the HP-hose (with special connection) to the supply hose.
14. Open the supply valve.
15. Close the HP valve, when anti freeze flows out of the supply hose (watch the color of the water).
16. Next you connect the hose onto the anti-freeze tank (top).
16. Open the HP-valve again and let the pump sends all anti freeze to the anti-freeze tank.

17. Close the high-pressure valve.

18. Switch off the machine.

19. Disconnect the hose and the special coupling and clean up.

Make sure that the HP and the supply hose are locked and tightened. Now the machine is ready for departure!

Antifreeze can be recycled.

Dispose the used antifreeze properly, through a local facility for disposal of industrial waste.

Additional preparations before departure:

1. Open the Drain Valve (10) to empty the water tank and unscrew the water Filter Cap (9).

1. Close the drain valve and replace the filter cap again.

2. Put antifreeze (25 to 1) into the water tank.

3. Open the supply valve (15) to the water filter.

4. Start the machine and let it idle.

5. Close the high-pressure valve (7) when the antifreeze comes out of the hose.

6. Leave the engine running for some time: to allow all pipes to fill up with antifreeze.

7. Switch off the machine.

8. The machine is ready for departure.

**Note!**
Minimize water mixing with the antifreeze. If too much water mixes with the antifreeze, it is not suitable for reuse. Dispose the used antifreeze properly as industrial waste.
MAINTENANCE

Remove Machine Covers

For inspection and maintenance two covers must be removed.

To Remove:
1. Unlock the cover with key.
2. Turn lock (1/4) a quarter turn.
3. Lift the cover a small distance.
4. Remove the cover.

To Mount:
1. Place the back of the cover into opening.
2. Lower the front side of the cover.
3. Fasten the cover using the locking device.
4. Lock cover with key.
Caution!
Always stop the engine first and depressurize the system before servicing or repairing the machine.
To depressurize the system, open the manual HP valve. If the spray gun is attached you must also pull the trigger to release the pressure.

Daily Maintenance

Check Oil Levels

- Check all oil levels once a week. (Engine Oil, Hydraulic Oil, HP Water Pump Oil)
- Add oil, if necessary (see Technical Specifications 43, Motor).
- If an oil level has dropped, this implies a leak in the system. In which case, check all gaskets, couplings, and hydraulic hoses in the system.
- Immediately repair damage and fill the system with the correct oil.

Note!
During the “Break-In” period, oil consumption may be more than usual.

Engine Oil
Hydraulic Oil
HP Water Pump Oil

2. Clean the Water Filter:

- Close the supply valve in the suction pipe.
- Unscrew and remove the filter cap.
- Clean the filter and filter housing.
- After cleaning, reinstall the filter in the opposite direction.
- Open supply valve.
- Check for leakage.
Minor Service

Minor service must be carried out EVERY 250 WORKING HOURS (or at least once every 6 months) and includes the following parts of the machine:

1. Drive and Engine
   - Change the oil in the engine. *(see page 43 “Technical Specifications, Motor)*
   - Replace the engine oil filter.
   - Clean the air filter.
   - Replace the fuel filter.
   - Check tension of the V-belt and adjust tension if necessary.
   - Check the battery.
   - Check the torque of attachment bolts for the engine and tighten as necessary.

2. Carriage:
   - Lubricate all mechanical moving parts in the system. Check that all nuts and bolts have been correctly tightened.

3. Pump system
   - Replace the HP hose reel seals.
   - Replace the 3-way valve.
   - With the manual high-pressure valve closed, the pressure gauge should NOT indicate any pressure.
   - If the spray gun is connected and closed, the pressure gauge should NOT indicate any pressure.
   - If the pressure gauge DOES indicate a pressure, this implies a leakage in the system or the check valve may be dirty or damaged.
   - If leakage is suspected, stop the machine, unscrew the hose coupling and clean or replace the check valve. Also, check the condition of the O-ring and gasket.

Extended Service

Extended service must be carried out EVERY 500 WORKING HOURS (or at least once every 12 months) and includes the following parts of the machine:

1. In addition to the minor maintenance items, perform the following:
   - Change the hydraulic fluids. *(see page 43, “Technical Specifications, Motor)*
   - Replace the hydraulic filter.
   - Change the HP pump oil.

2. EVERY 1250 WORKING HOURS (or at least 30 months) service and replace HP pump valves and seals as needed.
Hydraulic System

Important!

You have to renew the hydraulic oil at least once a year!

1. Replace the hydraulic fluid in the reel drive system. (See page 43, Technical Specifications)

2. Check the oil level prior to each use.

3. Check hydraulic oil level each time before use. IF level is NOT sufficient proceed as follows:
   a. Stop the machine.
   b. Ensure the unit is on a level surface.
   c. Remove the dipstick (A) from the oil tank (B).
   d. Clean the dipstick with a lint free rag.
   e. Put the dipstick back into the oil tank.
   f. Remove the dipstick and check the oil on the dipstick is between maximum a minimum (C).
   g. Fill oil, if necessary.
   h. Return and tighten the dipstick to the oil tank.

To let oil out of the reservoir, unscrew the drain plug (D) and catch the oil in a bucket.
Extensive Periodic Maintenance

Have the high-pressure machine checked and maintained from time to time by the dealer or service provider. This will ensure reliability and long life of the equipment.
### General Specifications

<table>
<thead>
<tr>
<th>Description (symbol)</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>: see 50 Attachment A, Urban Warrior Dimensions</td>
</tr>
<tr>
<td>Water Tank Capacity</td>
<td>: 300 l (2x standard)</td>
</tr>
<tr>
<td>Fill medium</td>
<td>: Water (H2O) Maximum</td>
</tr>
<tr>
<td>Temperature medium</td>
<td>: 132 °F</td>
</tr>
<tr>
<td>Total length high-pressure hose</td>
<td>: 140 m (~450 feet)</td>
</tr>
<tr>
<td>Diameter high-pressure hose</td>
<td>: ½&quot; (NW13)</td>
</tr>
<tr>
<td>Total length supply hose</td>
<td>: 50 m (~164 feet)</td>
</tr>
<tr>
<td>Diameter supply hose</td>
<td>: ¾&quot; (NW19)</td>
</tr>
<tr>
<td>Oil Tank Capacity</td>
<td>: 5 liters</td>
</tr>
<tr>
<td>Hydraulic Oil Tank Capacity</td>
<td>: Hestia 46 <em>REPLACE ONCE A YEAR</em></td>
</tr>
<tr>
<td>Max. Hydraulic Temperature</td>
<td>: 80 °C</td>
</tr>
<tr>
<td>Pressure Regulator</td>
<td>: ULH 262-2H</td>
</tr>
<tr>
<td>Year of Construction</td>
<td>: See name plate on frame</td>
</tr>
</tbody>
</table>

### Motor

<table>
<thead>
<tr>
<th>Description (symbol)</th>
<th>Technical Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>: Kubota WG1605</td>
</tr>
<tr>
<td>Number of Cylinders</td>
<td>: 4</td>
</tr>
<tr>
<td>Bore x stroke (d x l)</td>
<td>: 79 x 78.4 mm</td>
</tr>
<tr>
<td>Power (P)</td>
<td>: 37,0 kW at 3000 min-1 (gross) 33,5 kW (Net) 25,0 kW (Continuously)</td>
</tr>
<tr>
<td>Fuel</td>
<td>: Gasoline</td>
</tr>
<tr>
<td>Fuel tank</td>
<td>: 30 L (~8 gallons)</td>
</tr>
<tr>
<td>Cooling</td>
<td>: Water Cooled</td>
</tr>
<tr>
<td>Weight (m)</td>
<td>: 121 kg (~270 pounds)</td>
</tr>
<tr>
<td>Battery (U,I)</td>
<td>: 12 V, 45 A</td>
</tr>
<tr>
<td>Oil</td>
<td>: 10W30 API/SF-CC or better</td>
</tr>
<tr>
<td>Quantity</td>
<td>: 6 L (6 quarts)</td>
</tr>
</tbody>
</table>

Normal coolant - engine is protected to -18 °F

Special coolant - engine is protected to -33 °F
## Technical Specifications

### Pump

<table>
<thead>
<tr>
<th>Description (symbol)</th>
<th>Technical unit Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Giant P52</td>
</tr>
<tr>
<td>Maximum pressure (p)</td>
<td>See name plate on frame</td>
</tr>
<tr>
<td>Maximum output</td>
<td>See name plate on frame</td>
</tr>
<tr>
<td>Weight</td>
<td>54 kg (~120 pounds)</td>
</tr>
<tr>
<td>Maximum water temperature</td>
<td>55 °C / 132 °F</td>
</tr>
<tr>
<td>Oil</td>
<td>GX 80W90 (or equivalent)</td>
</tr>
<tr>
<td>Failure</td>
<td>Reason</td>
</tr>
<tr>
<td>---------</td>
<td>--------</td>
</tr>
<tr>
<td>Engine does not start or stops abruptly.</td>
<td>Machine has run out of fuel.</td>
</tr>
<tr>
<td></td>
<td>Main or secondary fuse blown.</td>
</tr>
<tr>
<td></td>
<td>Battery voltage low.</td>
</tr>
<tr>
<td></td>
<td>Emergency stop activated.</td>
</tr>
<tr>
<td></td>
<td>Low level in water tank (for cooling system).</td>
</tr>
<tr>
<td></td>
<td>Cooling water-level too low.</td>
</tr>
<tr>
<td></td>
<td>Temperature of cooling water too high.</td>
</tr>
<tr>
<td>The high-pressure pump does not produce the required pressure.</td>
<td>Water tank empty.</td>
</tr>
<tr>
<td></td>
<td>Supply valve to water filter closed.</td>
</tr>
<tr>
<td></td>
<td>Water filter clogged.</td>
</tr>
<tr>
<td></td>
<td>Air in high-pressure pump.</td>
</tr>
<tr>
<td></td>
<td>HP pump suctions blocked.</td>
</tr>
<tr>
<td></td>
<td>V-belt not sufficiently tightened.</td>
</tr>
<tr>
<td></td>
<td>HP pump suction check valves worn.</td>
</tr>
</tbody>
</table>
## Trouble Shooting

<table>
<thead>
<tr>
<th>Failure</th>
<th>Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure varies.</td>
<td>Low level in the water tank.</td>
<td>Stop the engine, refill the tank and restart engine</td>
</tr>
<tr>
<td></td>
<td>Water supply valve not sufficiently open.</td>
<td>Fully open the supply valve.</td>
</tr>
<tr>
<td></td>
<td>Water filter clogged.</td>
<td>Stop the machine and clean the filter.</td>
</tr>
<tr>
<td></td>
<td>Pump sucks air.</td>
<td>Stop the machine and check all hoses and couplings for leakage.</td>
</tr>
<tr>
<td></td>
<td>Nozzle clogged.</td>
<td>Stop the machine and clean the nozzle (clean the nozzle holes).</td>
</tr>
<tr>
<td></td>
<td>Pressure valves dirty or worn.</td>
<td>Stop the machine. Check the condition of the pressure valves. Clean or replace them</td>
</tr>
<tr>
<td></td>
<td>Pump gasket worn out.</td>
<td>Stop the machine and replace gasket.</td>
</tr>
<tr>
<td></td>
<td>V-belt for the pump slips.</td>
<td>Stop the machine and tighten the belts.</td>
</tr>
<tr>
<td></td>
<td>Ceramic plungers in the pump damaged.</td>
<td>Contact customer service.</td>
</tr>
<tr>
<td></td>
<td>Pressure control clogged or internally damaged.</td>
<td>Contact customer service.</td>
</tr>
<tr>
<td>Hydraulic reel does not wind the hose.</td>
<td>Handle not on right position.</td>
<td>Put the handle into the right position.</td>
</tr>
<tr>
<td></td>
<td>Hydraulic tank almost empty.</td>
<td>Refill the tank. Check the system for leakage.</td>
</tr>
<tr>
<td></td>
<td>Attachment bolt for control lever of hydraulic system loose.</td>
<td>Fasten the bolt and put the lever into the correct position.</td>
</tr>
<tr>
<td></td>
<td>Working pressure set too low.</td>
<td>Increase the working pressure, by adjusting the hydraulic speed control valve.</td>
</tr>
<tr>
<td></td>
<td>Return filter hydraulic tank dirty.</td>
<td>Switch off the machine and clean the return filter.</td>
</tr>
<tr>
<td></td>
<td>Hydraulic system damaged.</td>
<td>Contact customer service.</td>
</tr>
<tr>
<td>No reaction when using the Rio-mote.</td>
<td>No current.</td>
<td>Charge battery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Replace battery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contact points are dirty.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check fuses.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contact customer service.</td>
</tr>
<tr>
<td></td>
<td>Transmitter is not on.</td>
<td>Energize and sync the transmitter.</td>
</tr>
<tr>
<td></td>
<td>Transmitter out of reach from receiver</td>
<td>Put the transmitter close to the machine.</td>
</tr>
<tr>
<td>Failure</td>
<td>Reason</td>
<td>Solution</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>-------------------------------</td>
<td>-----------------------------------------</td>
</tr>
<tr>
<td>Warning Signal after short working time.</td>
<td>Battery discharged / defective</td>
<td>Charge or Replace.</td>
</tr>
<tr>
<td></td>
<td>Battery not charged or defective</td>
<td>Change the Battery.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check terminal connections.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check the alternator</td>
</tr>
<tr>
<td>Transmitter indications are good but functions are not executed</td>
<td>Emergency stop pushed in.</td>
<td>Unlock emergency stop.</td>
</tr>
<tr>
<td></td>
<td>Receiver has no current.</td>
<td>Check / replace fuses.</td>
</tr>
<tr>
<td></td>
<td>No radio connection.</td>
<td>Check function of control lights.</td>
</tr>
<tr>
<td>Certain functions are not executed.</td>
<td>Receiver is faulty.</td>
<td>Contact customer service.</td>
</tr>
<tr>
<td></td>
<td>Interruption in electric circuit.</td>
<td>Check all plugs. Plug in and push. Check control lights for proper function.</td>
</tr>
</tbody>
</table>
The Engine Control Module consists of two major functions.

The first function is the controller setup function which allows the factory service technician to program the alarms settings and engine control functions of the Urban Warrior Skid Mount Sewer Jetter. Errors in programming can result in mis-operation and severe damage to the jetter.

The second function of the Engine Safety Protection Panel is to monitor engine parameters to alert the operator to any abnormal conditions requiring attention as well as any operating limits that may be exceeded requiring the machine to be immediately shutdown. Once the engine is started the ECU has primary control of the engine providing prealarms, alarms and safety shutdowns.

This attachment provides the operator with information necessary to understand the operation of the Engine Safety Precautions Panel.

The diagram below identifies the indications available on the Engine Safety Protection Panel which will be explained on the subsequent slides.

**Indicator Lamps/Indications**

![Diagram of Engine Safety Protection Panel]

- Engine Fault Lamp
- Engine Alarm Lamp
- Eng. RPM
- Coolant Temp.
- Batt. Volt.
- Menu
- Throttle Up
- Throttle Down
- Enter
- Fuel Rate
- Manifold Temp.
- Total Hours
## Supplied Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>79824700</td>
<td>Open Nozzle Nozzle</td>
<td>1</td>
</tr>
<tr>
<td>79824600</td>
<td>Closed Nozzle</td>
<td>1</td>
</tr>
<tr>
<td>77799800</td>
<td>Handgun Assembly</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Remote Receiver</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Radio Remote Control</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Remote Control Lanyard</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Remote Control Charger</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Extra Battery and Fuses</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Standard Antenna</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Directional Antenna</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>VanMount Antenna</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Catalytic Converter</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>O2 Sensor</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Muffle Clamps</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Exhaust Flex Pipe</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Exhaust Wrap</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Exhaust Elbow</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Overflow Bulkhead</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Overflow Tube</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Drain Hose Adapter</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Parts Bag</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Keys w/ Spartan Lanyard</td>
<td>2</td>
</tr>
</tbody>
</table>