



Gas Engine HydroCart

OPERATING INSTRUCTIONS

SETUP

1. The machine must be operated standing upright on level ground. Choose an area that offers the most stability.
2. Choose a location close to the water supply tap if possible.
 - Extension garden hoses may be used but must be 5/8 inch inside diameter or larger to minimize line pressure loss.
 - Additional extension garden hoses may decrease system volume production rate.
3. Connect water supply garden hose to feed water inlet connection.
4. Connect the yellow 100 ft hose to pure water outlet connection.
5. Connect wash pole hose to the ball valve on the other end of the 100 foot hose and open valve.
6. Connect waste water hose to fitting on lower left side of RO pressure vessel and direct flow to an area that can accept the water such as shrubs, trees, grass or drainage that leads to a storm drain. Attach an additional garden hose if needed to reach the desired discharge area.
 - **Note:** The waste water will not harmful and will not damage any plant life. It is just tap water with higher total dissolved solids content.
7. Turn on water supply.
8. Open the flush valve to bleed air from system.

START THE ENGINE

- **Warning:** The engine is shipped with no oil or gas. Fill crankcase with oil as per manufacturers spec.
 - Read engine manufacturer owner manual for full operational instructions.
 - Open gas valve located on engine control panel.
 - Close choke located on engine control panel.
 - Throttle should be set to the high speed setting.
 - Turn switch to ON position.
 - Pull start rope until engine starts.
 - Immediately open choke.
9. Close the flush valve when all air has been cleared from system.
 10. Test water at the brush using the handheld TDS meter. Water should be less than 10 ppm.
 11. Use the ball valve at the pole to adjust desired amount of pure water supplied to brush.
 11. **Note:** When pure water ball valve is closed completely, the pressure relief valve located near flush valve will open and dump excess water flow onto ground. A garden hose can be attached to direct flow to a designated area if needed.

SHUTDOWN

1. Open the flush valve to allow water to flush out the RO membranes for 1 minute.
2. Turn the engine switch to the OFF position to stop the engine.
3. Turn the fuel valve OFF.
3. Turn supply water OFF.
3. Open pure water ball valve to relieve pressure in the line. Close valve.
4. Close flush valve after pressure has bled off.

TRANSPORTATION **Warning!** Gas engine must be in the vertical position at all times to avoid gas spills.

The machine must be in the UPRIGHT position during transportation in a vehicle if the gas engine is mounted to the cart frame.

The gas engine may be removed by disconnecting the water line quick connect fittings on the pump and pulling the 2 lock pins on the frame to rail mounts. Then lift the engine up and outward. The cart can now be transported horizontally. The engine must remain vertical.