

HYDROLIFT II INSTRUCTION MANUAL



safety first

Stand clear of the HydroLift II when in use. The rapid up and down motion of the drive shaft creates a potential hazard.

Always secure the pump to the well casing securely before starting the pump, making sure that adequate clearance exists between the reciprocating shaft and the well head. Never move the pump when connected to a power source.

Use of electricity in wet areas creates a potential hazard and should be avoided. Check the extension cord for defects prior to connecting to a power source.

CAUTION

ALWAYS DISCONNECT POWER SUPPLY PRIOR TO PERFORMING ANY MAINTENANCE.

SPECIFICATIONS	
Weight	35 lbs
Dimensions	14"H x 8"W x 24"L
Horsepower	3/4
RPM (maximum)	200
Power requirements	Any standard generator with a 1000 watt output at 110 volts
Pumping Instructions	Standard Flow System – 200 feet High Flow System – 130 feet

Assembly & Operation

set-up

Hang the pump on the protective well head casing using the stainless steel hooks and secure tightly with the ratcheting strap provided with the pump (not shown).

Release the cam lock assembly by lifting the cam lock lever upwards. Adjust the tubing clamp and tubing so that it is centered over the well. Engage the cam lock assembly to maintain that position. Check to see that the extension shaft is held securely by the cam lock assembly.

Lift the tubing in the well up through the tubing clamp and secure in place. Leave a sufficient length (approx. 3 feet) of tubing to loop around and secure to the discharge tubing clamp located on the side of the pump.

operation

Once the pump is secured to the casing and the tubing is properly set up, the Hydrolift II may be plugged into the power source. Before proceeding, check to see that the speed control knob is adjusted to the lowest speed. Turn the pump on and slowly adjust the speed control to the desired setting.

NOTE: Select speed conservatively as faster cycle rates do not always translate into greater flow rates.

The on/off rocker switch on the control panel also functions as a circuit breaker that will turn the unit off in the event of electrical problems. The breaker is reset by turning the unit on again.

When not in use, the Hydrolift II should always be disconnected from the power source or turned off.

transport & storage

The Waterra Hydrolift II should always be transported in its original shipping container to ensure that it is adequately protected during shipping. Replacement containers are available from Waterra. Always store the Hydrolift II in an upright position to avoid leakage of the gearbox lubricant. Please return the pump to Waterra if significant leakage occurs.

Routine Maintenance

- 1.** Clean the outside of the pump with a wet cloth after every use. Store in a warm, dry place when not in use to remove any moisture remaining on the electrical components.
- 2.** Tighten any loose screws between use and check for any wear on critical components (i.e. rubber boot, speed control knob, on/off switch, tubing clamps, and cam rake adjustment assembly).
- 3.** Turn the pump on and adjust the speed to approximately 1/2 speed. Place your hand carefully on the top of the rake adjustment assembly and press down to simulate a load. Observe the sound of the pump under load to determine if any components are malfunctioning. The pump should be free of any thumping or scraping noises when in use.
- 4.** Occasionally lubricate the drive shaft by putting a few drops of gear oil (i.e. SAE 75 W-90) on the drive shaft just above the central bushing. This process requires the partial removal of the rubber boot to access the drive shaft/central bushing assembly.

Part	Sign of Wear
Drive Shaft	The drive shaft should oscillate vertically. Any significant lateral movement may indicate a problem.
Speed control knob	The speed control knob can normally be rotated through 270 degrees. Any larger movement may indicate a failure.
Tubing clamps (top & side)	The tubing clamps should hold the tubing firmly without slipping when in motion. Check for loose fittings and damaged components which may impair performance.
Rubber boot	The rubber boot should be replaced immediately if any crack or cut appears on the boot. Debris on the drive shaft may damage internal bushings.

TROUBLESHOOTING

Problem	Check
Does not start – no power	<ol style="list-style-type: none"> 1. Is the generator adequately powered? 2. Has the on/off switch and combination circuit breaker tripped? 3. Is the extension cord free of defects? 4. Remove the top cover and examine all electrical connections for tightness.
Does not start – no power, but fan is running	Problem is likely electrical or mechanical. Please return to Waterra for service.
Pump oscillates, but makes loud rumbling or scraping noises	Problem is likely electrical or mechanical. Please return to Waterra for service.
Rubber boot	The rubber boot should be replaced immediately if any crack or cut appears on the boot. Debris on the drive shaft may damage internal bushings.

Parts List



CLAMP ARM



CLEVIS PIN



RATCHET BELT



BELLOWS

Warranty Information

Waterra Pumps Limited warrants that each new Hydrolift II will be free, under normal use and maintenance, from any defects in material or workmanship for the relevant warranty period. Necessary repairs shall be made and replacement parts provided at no cost to the consumer when Waterra acknowledges that such defects are attributable to faulty material or workmanship at the time of manufacture. This warranty is not transferable.

warranty period

All components: 6 months

This warranty does not cover:

- i) any repairs required as a result of collision, accident, striking an object, abuse, misuse, lack of required maintenance or use of an incorrect power source;
- ii) any repairs required as a result of any attachments, parts or devices installed or repairs done by a party other than Waterra Pumps Limited;
- iii) any Hydrolift II pumps modified, altered, disassembled or remodeled; and
- iv) normal maintenance service such as: tightening screws, bolts or fittings, lubrication and engine tune-up and the replacement of parts required for normal maintenance services including filters, ignition points and condensers, spark plugs and wires, fuses, belts, lubricants and other expendables susceptible to natural wear.

owner's obligation

The owner agrees to follow all safety procedures outlined with this equipment and follow the maintenance schedule as indicated in the Owner's Manual. A record must be kept of regular inspections and maintenance performed.

disclaimer

To the extent that the law permits, Waterra Pumps Limited disclaims any responsibility for the loss of time or use of the Hydrolift II, transportation or towing costs or any other indirect, incidental or consequential damage, inconvenience, commercial loss or personal injury. The warranty is not valid if the product is not paid for in full within 60 days of the invoice date.

returning hydrolifts to waterra

Waterra requires that all customers notify Waterra prior to returning their Hydrolift II under the Waterra warranty program. The Hydrolift will only be accepted if it has been thoroughly cleaned and decontaminated. Hydrolifts must be properly packaged and all fuel must be removed from the pump prior to shipping. Please contact Waterra in order to obtain a shipping address.

Contact Waterra

As of November 2002 Waterra can be reached as follows:

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