

# TROUBLESHOOTING GUIDE

## Aquajet RV Series Aquajet ES Series

### 1. PUMP DOES NOT RUN

Cause	Solution
Tripped thermal protector/blown fuse	Check fuse. If motor is overheated, allow it to cool down prior to restart.
Faulty wire connection or power source	Check battery/power supply, polarity, main switch and wiring
Pressure switch controller malfunctioning	Replace controller  RV Series P/N 26-158 (without fuse) RV Series P/N 26-158-01 (with fuse) ES Series P/N 26-173 (without fuse) ES Series P/N 26-173-01 (with fuse)
Motor malfunctioning	Replace pump
Pump and/or motor is frozen	Thaw pump and system and check for damage. The pump/motor may become damaged when a frozen pump is started.

### 2. PUMP RAPIDLY CYCLES ON/OFF WITH WATER DEMAND

Cause	Solution
Hydraulic pulsations	Install pulsation dampener  P/N 25-174 (elbow fittings) P/N 25-175 (straight fittings)
Restriction on outlet side of pump, resulting in too much back pressure	Check inline filter, if any

### 3. PUMP RAPIDLY CYCLES ON/OFF WITHOUT WATER DEMAND

<b>Cause</b>	<b>Solution</b>
Leak on outlet side of pump	Check tightness of hose selections, check hose for possible damage
Fill valve bypassing to tank	Replace fill valve
Debris under valves	Flush pump in nominal flow direction. If necessary, disassemble and clean valves

### 4. PUMP DOES NOT PRIME

<b>Cause</b>	<b>Solution</b>
Water tank empty	Fill up tank
Leak on inlet side of pump	Check tightness of hose connections at pump, filter and tank. Check valves at inlet side
Debris under valves	Flush pump (in nominal flow direction) with tap water at maximum flow possible.
Perforated diaphragm	Replace diaphragm kit RV Series P/N LH 5503-4V15 ES Series P/N LH 5502-4V15
Inlet or outlet plumbing restricted	Check plumbing. Water should free flow from tank at 2 GPM minimum

## 5. PUMP LEAKS

Cause	Solution
Perforated diaphragm	Replace diaphragm kit  RV Series P/N LH 5503-4V15 ES Series P/N LH 5502-4V15
Inlet/outlet fittings leak	Replace O-rings and/or fittings

## 6. PUMP KEEPS RUNNING WHEN WATER IS NO LONGER DEMANDED

Cause	Solution
Diverter valve in “fill” mode	Close and/or rotate any valve used for filling water tank.
Water tank empty	Fill up tank
Leak on outlet side of pump	Check tightness of hose connections, check hose for possible damage
Air leak on inlet side of pump	Check tightness of hose connections. Check inlet hose, filter, and valves for possible damage Purge air (refer to User’s Guide)
Pressure switch controller malfunctioning	Replace controller  RV Series P/N 26-158 (without fuse) RV Series P/N 26-158-01 (with fuse) ES Series P/N 26-173 (without fuse) ES Series P/N 26-173-01 (with fuse)
Low voltage to pump	Change battery/power supply. Check wire gauge (refer to Aquajet installation guide)

## 7. LOW FLOW/PRESSURE

<b>Cause</b>	<b>Solution</b>
Leak on inlet side of pump	Check tightness of hose connections, check hose for possible damage
Air in pump	Purge air (refer to User's guide)
Low voltage to pump	Change battery/power supply. Check wire gauge (refer to User's guide)
Debris under valves	Flush pump and/or disassemble and clean valves
Motor malfunction	Replace pump

## 8. PUMP IS EXCESSIVELY NOISY

<b>Cause</b>	<b>Solution</b>
Pump is plumbed directly to rigid tubing	Install pulsation dampener  P/N 25-174 (elbow fittings) P/N 25-175 (straight fittings)
Restrictive inlet, pump is cavitating	Check plumbing. Water should free flow from tank at 2 GPM minimum.
Pump head loose on motor	Tighten screws
Pump mounting is loose	Tighten screws
Pump mounting is too rigid	Use flexible tubing and make sure the dampening rubber feet are used
Defective motor/drive	Replace pump

## 9. ELECTROMAGNETIC INTERFERENCE

<b>Symptom</b>	<b>Solution</b>
Noise can be heard in Stereo System, or TV picture affected when pump is running	Install EMI filter p/n 21-256 in line with pump
Operation of Heating/Cooling System changes When pump is running	Install EMI filter p/n 21-256 in line with pump