

# Troubleshooting

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Troubleshooting

## Pump Will Not Turn

Turn hydraulics off, go to the **SureFire PWM valve** and use the manual override on top of the electric coil to **manually open the valve** (Manual Override UP = valve fully open). Turn hydraulics on **at a low flow only** as the valve is 100% open. Try hydraulic lever in opposite direction. Does the pump turn? If it turns, your problem is electric / electronic. If the pump still does not turn, you have a hydraulic problem.

### Electric / Electronic Problem

1. Close manual override (lock down)
2. Go to **Diagnostics, Section Test** to investigate this issue.
3. Verify hydraulics are on.
4. In Section Test, hold down “+” button for a few seconds. A single tap of this button produces a very small change in signal to the valve, so you must hold it.
5. Take a metal object and hold it next to the coil. If the coil is working, you will feel the magnetic pull.
6. If no magnetic force is felt, disconnect the PWM valve connector and check voltage. You will need 6-12 volts to get hydraulic valve to open.
7. If 6-12 volts is not present, check harnesses and review control valve type setup.
8. Go back to the 37-pin connector at the John Deere Rate Controller. Check voltage between pins 15 & 16, should be between 6-12 volts while in section test after holding “+” button.
9. If you cannot get voltage at pins 15 & 16, contact your John Deere dealer for further assistance.

### Hydraulics Problem

1. Leave the manual override open on the SureFire valve.
2. Check the hose routings. The “P” port on the SureFire valve should hook to pressure. The “T” port is the return that should flow back to the tractor.
3. Try hoses in a different hydraulic remote. Inspect hydraulic connectors for damage or restrictions.

### Hydraulic Manual Override

**Down - Normal Operation**

**Up - Override, valve 100% open**

