

# Pump Will Not Turn

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## Troubleshooting

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. Push the AUTO/MAN button until MAN is displayed on the Commander II. You are now in Manual mode.
3. Put the system in RUN. Turn the console switch to RUN or lower the implement if using a mercury Run/Hold Switch. When HOLD is not displayed on the screen the system is in RUN.
4. Turn Section 1 switch ON.
5. Verify hydraulics are on.
6. Turn Dial to VOLUME/MINUTE position.
7. Press the "+" button for a few seconds.
8. Take a metal object and hold it next to the coil. If the coil is working, you will feel the magnetic pull.
9. 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.
10. If 6-12 volts is not present, check harnesses and connectors.

### 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

