

Troubleshooting Guide: D-50 Engine Will Not Start

Engine Will Not Start

- Is there power to the control panel and engine information display?

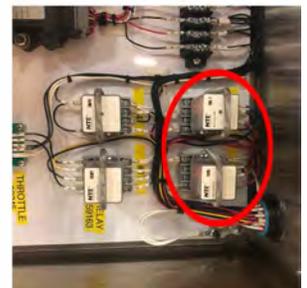
If there is not power to the control panel:

- Check the battery output and ensure the battery cable connections are clean and secure.
- Check the 20 Amp fuse by the starter and the two 20 Amp inline fuses on top of the bell housing and under the CPU.



If there is power to the control panel:

- Check the clutch lockout switch located on the clutch handle assembly. Remove the 2 wires, at the connectors, that run to the 2 wires on the switch, then connect the blue wire that runs from the control panel to the black ground wire that connects to the lower bolt on the clutch handle assembly to bypass the lockout switch. If the drill starts, replace the clutch lockout switch (P/N 52612-1) before operating the drill. In bypass mode, the wires must be connected to start the rig, and disconnected to drive the rig.
- Use a test light to confirm power to the #45 wire on the clear plastic relay base, inside the radio control box.
 - ~ If there is no power to the #45 wire and your drill serial number is D-50 367 or later, pull and reseal the clear plastic power relays number 1 and 2. If there is still no power, the clear power relay (P/N 59163) in the radio box could be bad.
 - ~ If there is no power to the #45 wire and your drill serial number is D-50 366 or earlier, pull and reseal the single clear plastic power relay in the left corner. If there is still no power, remove the top control panel cover, find the gray plastic relay behind the front panel cover and place a jumper wire to connect #4 and #2 positions on the relay. If the drill starts, replace the relay (P/N 60264) before operating.



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If the engine will turn over, but not start:

- Check emergency stop switches. If all switches are not in the activated (pushed in) position, you can bypass the e-stops by disconnecting the round plug normally near the transmission on Tier 3 John Deere engines and behind the control panel on Tier 4 John Deere engines. If the rig starts by bypassing the e-stop switches, repair the problem before operating the drill.



If the engine will not start after following this troubleshooting guide,
call Diedrich Drill Service at 1-800-348-8809