

# XT Defrost Overload Bypass Testing Procedure

## SERVICE DOCUMENT



Quest Dual 105: #4032270  
Quest Dual 155: #4031490  
Quest Dual 155 - 50hz: #4037400-XX  
Quest Dual 165: #4037410  
Quest Dual 205: #4033060  
Quest Dual 225: #4035400

### OVERVIEW:

If your dehumidifier is not making water and you cannot hear the compressor running the cause may be a defective defrost thermostat or overload. These instructions will show you how to bypass the defrost thermostat and overload to confirm the issue.

### TOOLS NEEDED:

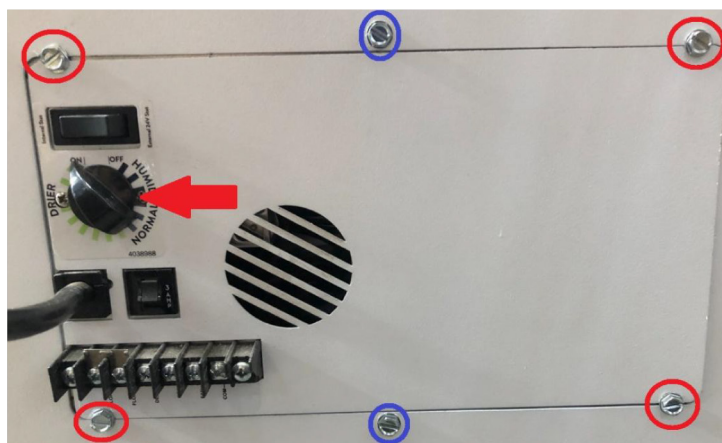
- 5/16 hex driver
- Pliers
- Jumper Wire
- Wire Strippers

### INSTRUCTIONS:

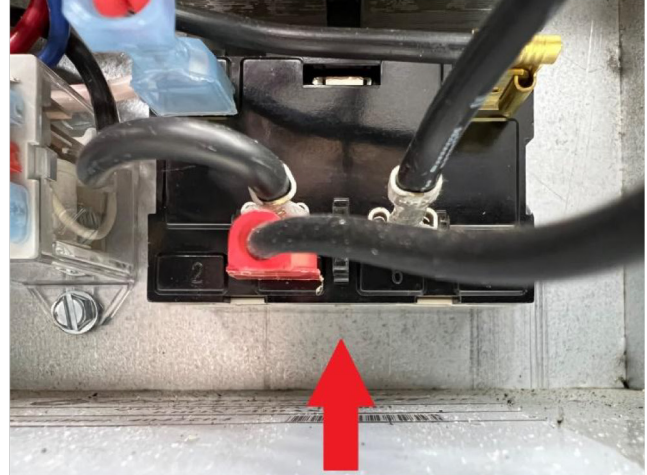


**!!WARNING!! DISCONNECT POWER BEFORE MAKING THIS REPAIR TO PREVENT ELECTRICAL SHOCK**

1. Unplug the unit from the power outlet.
2. Using pliers grab the black humidity control knob and pull off. (Red Arrow)



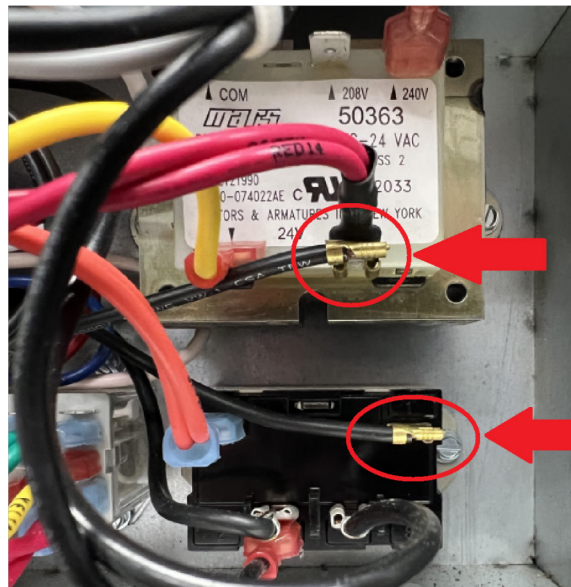
3. Remove the 4 - 5/16 hex screws near the corners of the electrical box cover. (Red Circle) Leave the 2 screws in the middle. (Blue Circle)
4. Remove the electrical box cover.
5. Locate the compressor relay in the lower right corner. Look underneath this relay for the test button.
  - A. With unit off the button should be out.
  - B. When the control is on the button should be in.



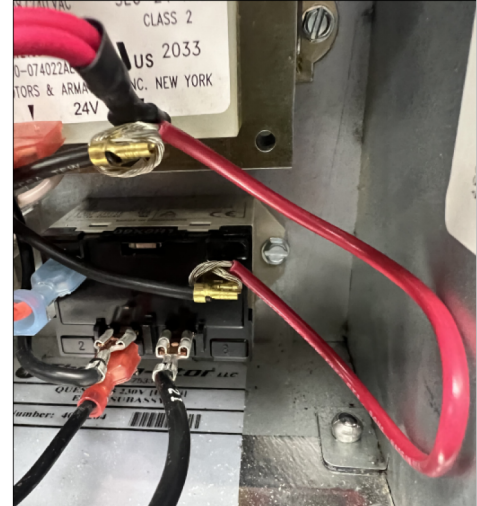
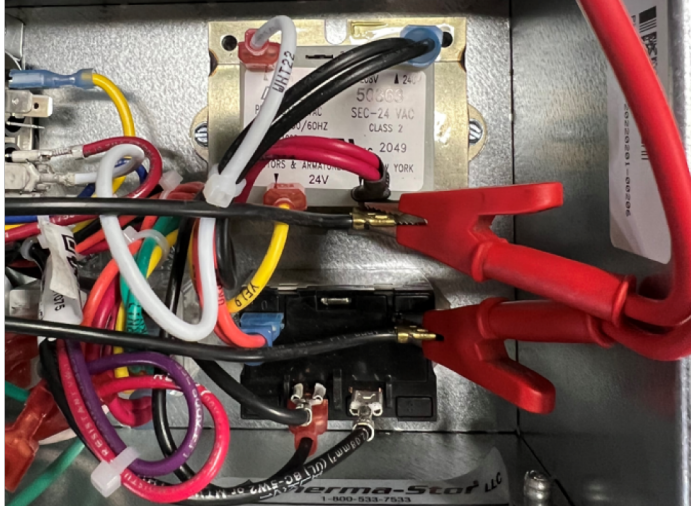
6. Turn unit on and verify if button pulls in.
  - A. In button does not pull in then continue to Defrost Bypass section.
  - B. If button pulls in then continue to Overload Bypass section.

Defrost Bypass: **!!!Remove power form unit before making repair!!!**

7. Locate the 2 black wires with gold flag connectors on the right side of the electrical box. See red arrows in picture below.



8. Connect both wires by using a jumper wire with alligator clamps or a piece of wire with stripped ends.



9. Turn the unit back on using control while listening for the fan and compressor to come on.
  - A. Relay button should now pull in.
  - B. Compressor should make a slight hum or vibration.
  - C. If unsure, run the unit for 1 hour to see if water comes out of the drain hose. If water is coming from the drain, then compressor is running.

Overload Bypass: **!!!Remove power from unit before making repair!!!**

10. Remove rear cabinet by removing these rear panel screws.



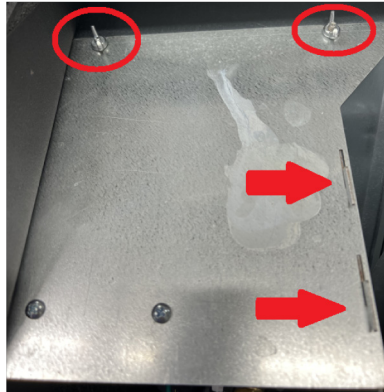


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11. Remove metal plate by loosening 2 thumb screws and sliding plate down to disengage tabs.

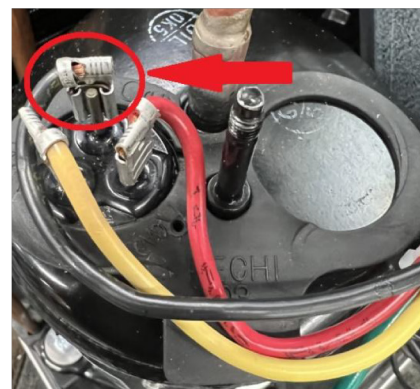
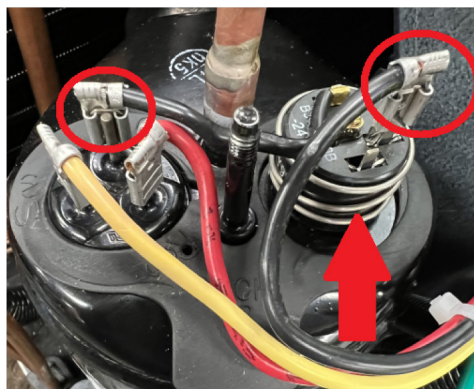


12. Remove compressor cap by removing 5/16 nut.

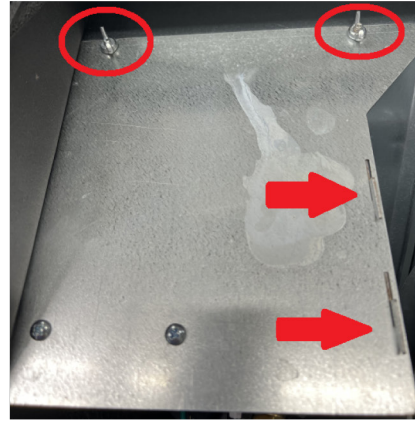
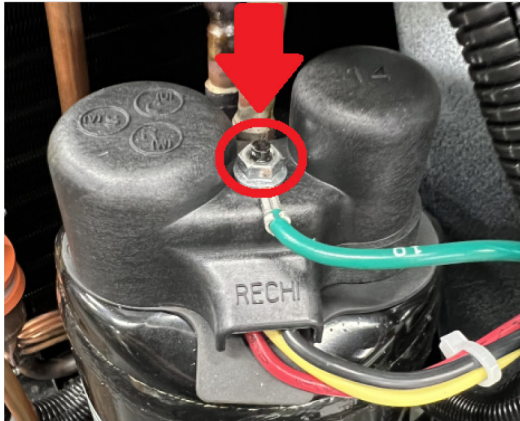


13. Remove overload to bypass.

- A. Remove spade connector from black wire on top of overload.
- B. Remove spade connector from other black wire on top of the compressor.
- C. Remove round overload.
- D. Install black wire spade connector on top of the compressor.



14. For safety reasons, Re-install Compressor Cap, Metal plate and Rear cabinet.



15. Turn the unit back on using control while listening for the fan and compressor to come on.
- A. Compressor should make a slight hum or vibration.
  - B. If unsure, run the unit for 1 hour to see if water comes out of the drain hose. If water is coming from the drain, then compressor is running.

Have Questions? Contact the Quest service department at **877-420-1330** or **[service@questclimate.com](mailto:service@questclimate.com)**