

### Unidrive Size 4 Thermistor Replacement

This document pertains to Size 4 Unidrives

Heat Sink Thermistor  
PN: 1310-0500-00



**WARNING: ALLOW SUFFICIENT TIME FOR THE DRIVE TO DISCHARGE**  
**Recommended Time is 10 minutes**  
**Measure from DC+ to DC- to ensure the buss voltage has discharged.**

This document will cover the replacement of the heatsink thermistor. The drive will display **Oh2** if this thermistor has failed.

**STEP 1:** Removing the drive covers.

The green plastic covers on the drive will need to be removed to service the interior of the drive. [CTRI 232](#) covers the procedure on accessing the power stage of the drive. It can be downloaded from the link below.

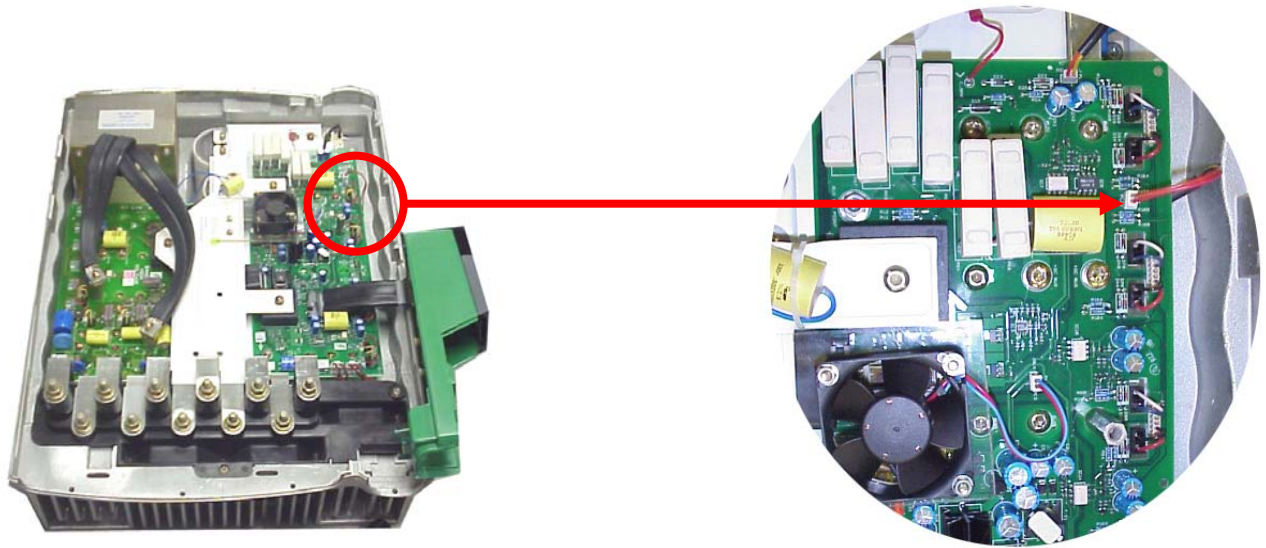
[http://www.emersonct.com/download\\_usa/replacementInstructions/CTRI232.pdf](http://www.emersonct.com/download_usa/replacementInstructions/CTRI232.pdf)

When the covers are off of the drive you can continue with these replacement instructions.

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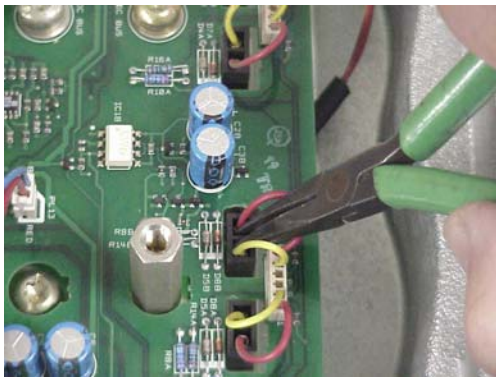
**STEP 2:** Locating the thermistor.

The thermistor is screwed to an IGBT located under the power board. It is located about  $\frac{3}{4}$  of the way up on the right hand side of the drive. The picture on the next page shows the location.

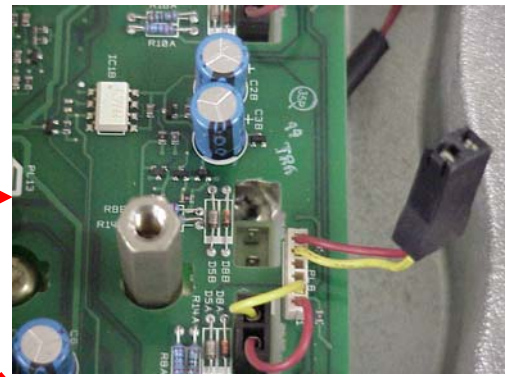


**STEP 3:** Removing the gate lead and disconnecting the thermistor from the IGBT.

1.



2.

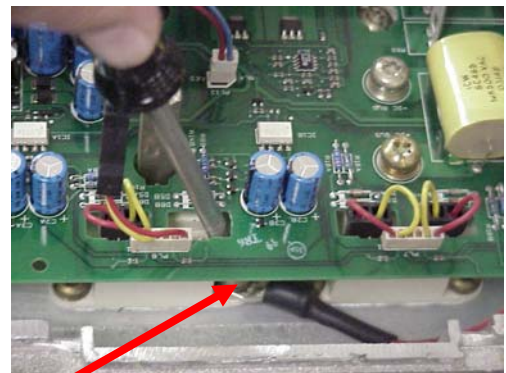


Remove the gate lead above the thermistor screw with needle nose pliers.

3.



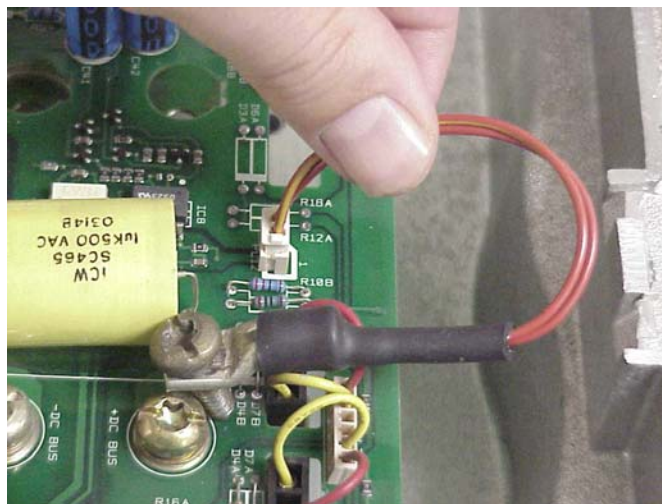
4.



Use a T-30 torx screwdriver inserted through the power board to reach the thermistor connection point.

Remove the screw and pull the thermistor free.

**STEP 4:** Remove the thermistor and replace with new one.



**NOTE:** These instructions can be used in the reverse order to install the replacement thermistor. [CTRI 232](#) can be referenced for cover installation.

For questions call Control Techniques Technical Support at  
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