



# **LORA System Diagnosis**

## **Required Tool(s)**

- 1/4" Hex-Head Driver
- Drill (optional)
- Gloves

- Ohmmeter
- Voltmeter



**CAUTION** – Sharp edges. Gloves are recommended.

## **Before You Begin: Access Probe Terminals**

- 1. Remove the back channel. See fig. 1.
- 2. Disconnect the Emerson probe wire from the LORA transmitter node. See fig. 2.





Fig. 1. The back channel. Not all screw locations shown.

12 DC V between

terminals #3 and #4?

(See fig. 3)

YES

YES

**REPLACE THE LORA** TRANSMITTER NODE

Resistance between terminals #1 and #2

match Temperature to Resistance Chart?

(See table 1 and fig. 3)

#### **Diagnosing & Troubleshooting**

NO



Fig. 2. Disconnect the probe from the transmitter.

Power supply has voltage?

YES

NO

**REPLACE THE** WIRE HARNESS

(Electrical box behind the

front louver grill)

### **Table 1. Temperature to Resistance Chart**

Temperature		Resistance	Temperature		Resistance
°F	°C	Ohms (Ω)	°F	°C	Ohms (Ω)
-40	-40	336,450	90	32	7,334
-30	-34	234,170	100	38	5,818
-20	-29	165,210	110	43	4,664
-10	-23	118,060	120	49	3,758
0	-18	85,399	130	54	3,048
10	-12	62,493	140	60	2,488
20	-7	46,235	150	66	2,042
30	-1	34,565	160	71	1,686
40	4	26,100	170	77	1,400
50	10	19,899	180	82	1,169
60	16	15,311	190	88	981
70	21	11,883	200	93	827
80	27	9,299			

*Note.* The Emerson Probe is located between the back wall and evap coil. Fastened to the ceiling. In the supply air. Place your temperature lead in the same area to test Temperature to ohm values.

To Replace the probe, cut off probe head and splice in new.

# Fig. 3. Probe Terminals



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