Dometic

3307872.006
THERMISTOR REPLACEMENT KIT

THIS KIT CONTAILS:
4ea SCOTCHLOK® Wire Connectors
1ea Thermistor Sensor Tip
1ea Thermistor Connector Harness
1ea 3307873.004 Instructions

TOOLS REQUIRED:
Wire Cutter
Knife
Pliers
Screw Driver

1. GENERAL INSTRUCTIONS

This kit will allow replacement of the thermistor tip, or connector harness in Dometic refrigerators with out the need to remove the refrigerator from the RV, cooling unit from the refrigerator or pulling of the thermistor through the cabinet.

A. Disconnect all AC and DC power supplies at their source.

⚠WARNING

Disconnect all power supplies and the positive (+) terminal from the supply battery. Failure to follow this instructions may create a shock hazard.

B. Read and under stand all instructions before installing this kit.

⚠WARNING

These instructions must be read and understood before installation of this kit. This kit must be installed by a Dometic Service Center or a qualified service technician. Modification of this product can be extremely hazardous and could result in personal injury or property damage.

2. PROCEDURE

Check out the thermistor sensor tip, connector plug for loose pins or broken wires and the thermistor cable for a shorted or open circuit. Replace only the defective portion of the thermistor assembly.

NOTE: A shorted or open thermistor cable requires replacement of the complete thermistor harness assembly if it is not near the connector plug or sensor tip.

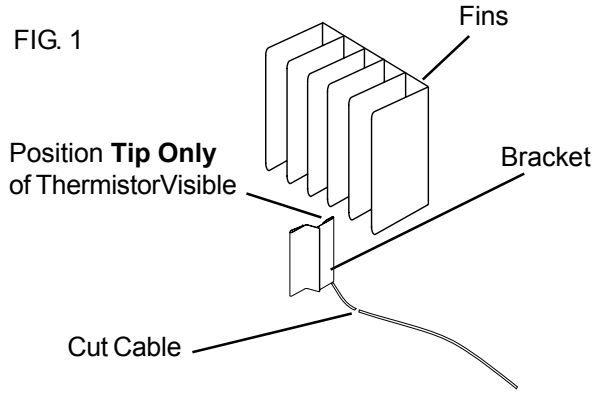
A. REPLACING THERMISTOR TIP HARNESS

1. Locate the thermistor sensor tip in the mounting bracket on the right hand side of the fins in the food storage area.
2. Note the position of the bracket on the fins and the thermistor in the bracket. Remove it along with the thermistor sensor tip. Pull the thermistor sensor tip out of the bracket and use wire cutters to cut the cable approximately 3 inches from the tip. See FIG.1.
3. Separate the two wires by removing two inches of the outer jacket being careful not to nick inside wires. Do not strip the wires.
4. Insert one wire from the new thermistor tip and one wire from the main thermistor cable into the SCOTCHLOK® provided in the kit. See FIG. 2.

NOTE: Do not strip wires.

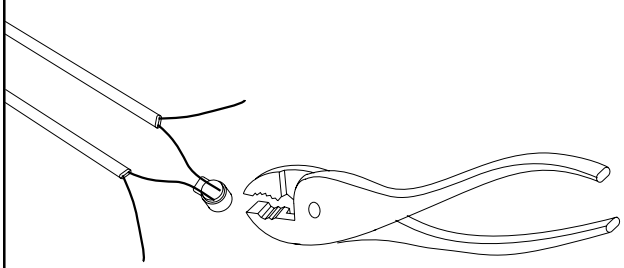
5. Using pliers, crimp both wires at same time the in the SCOTCHLOK® splice connector. Do not over crimp. Repeat with remaining wire. See FIG. 2.

FIG. 1



6. Place the new thermistor tip in the bracket allowing just the end of the sensor to be visible (faster reaction to temperature change). See FIG. 1.
7. Replace thermistor bracket on the right hand fin in the same position as it was originally.

FIG. 2



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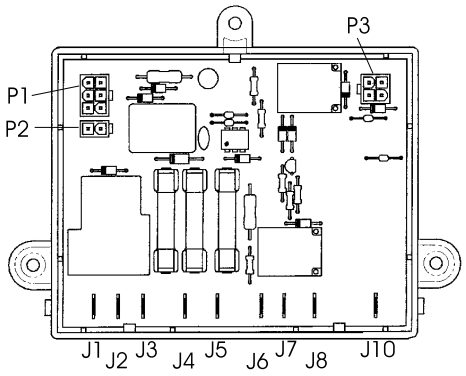
B. REPLACING THERMISTOR CONNECTOR HARNESS

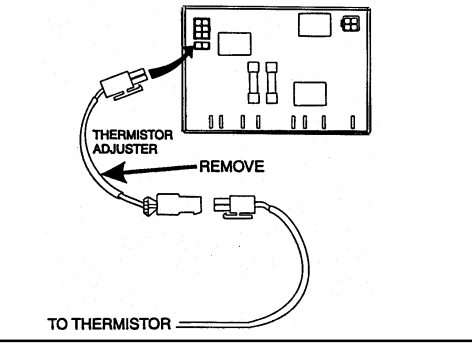
1. Locate the black power module on the back of the refrigerator and remove the cover.
2. Unplug the thermistor two wire connector from the power module board (P2). See FIG. 3.

FIG. 3



3. If a thermistor adjuster (part number 2932164011 not used on all models) is installed it should be disconnected from the thermistor harness and saved to be reinstalled. See FIG. 4.
4. Use wire cutters to cut the thermistor cable two inches above the connector assembly. Separate the two wires by removing two inches of the outer jacket being careful not to nick inside wires. Do not strip the wires.

FIG. 4



5. Insert one wire from the new connector harness and one wire from the main thermistor cable into the SCOTCHLOK® provided in the kit.

NOTE: Do not strip wires.

6. Using pliers, crimp both wires at the same time, in the SCOTCHLOK® splice connector. Do not over crimp. Repeat with remaining wire. See FIG. 2.
7. Plug new connector harness into power module board (if thermistor adjuster was removed it should be connected to the new connector harness and pugged into power module).
8. Replace cover on power module being careful not to pinch or disconnect any leads.
9. Connect the AC and DC power supplies and turn on the refrigerator and test operation.

NOTE: The temperatures can be adjusted a few degrees by sliding the thermistor bracket up/down on the fins and moving the thermistor sensor tip in/out of the bracket. See FIG. 1.