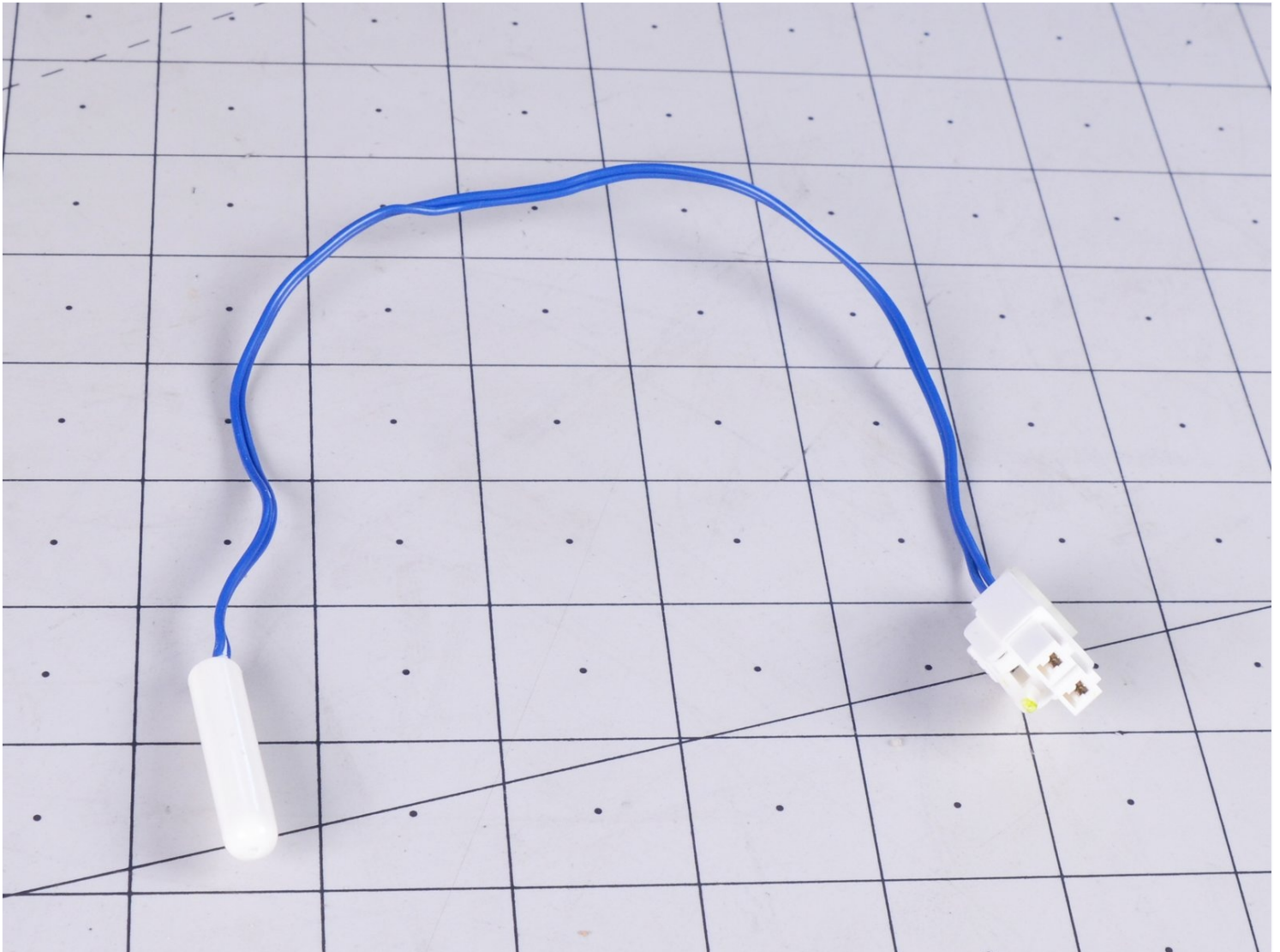




LG Refrigerator Freezer Thermistor Test and Replacement

Use this guide to test and replace the freezer...

Written By: Bill Gilbert



INTRODUCTION

Use this guide to test and replace the freezer thermistor in your LG refrigerator.

This guide will work for most LG refrigerators. This guide is written with an LG model LFX25973 refrigerator. If you have a different model, you may encounter some minor disassembly differences, but the overall repair process will be the same.

The freezer thermistor monitors the temperature inside the freezer compartment. It has a resistance that varies according to temperature, and the main control board monitors this value.

If the thermistor fails, the freezer temperatures will not be correct, and an **Er FS** error code may show on the display.

TOOLS:

3/16 Flat Blade Screwdriver (1)

Phillips #2 Screwdriver (1)

Spudger (1)

Digital Multimeter (1)

Step 1 — Unplug your refrigerator



- Unplug your refrigerator before you begin your repair.
- ① If you are testing or repairing the following items, you may also need to shut off and disconnect the water supply:
 - Condenser fan motor
 - Compressor motor and thermal overload device
 - Water supply valve assembly

Step 2 — Open the freezer door



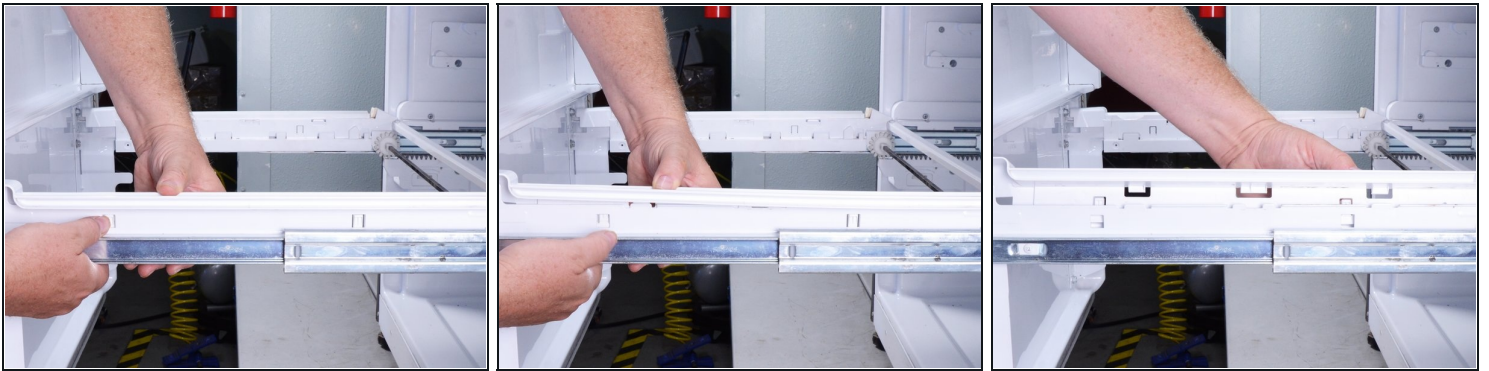
- Pull open the freezer door fully.

Step 3 — Remove the drawer and bin



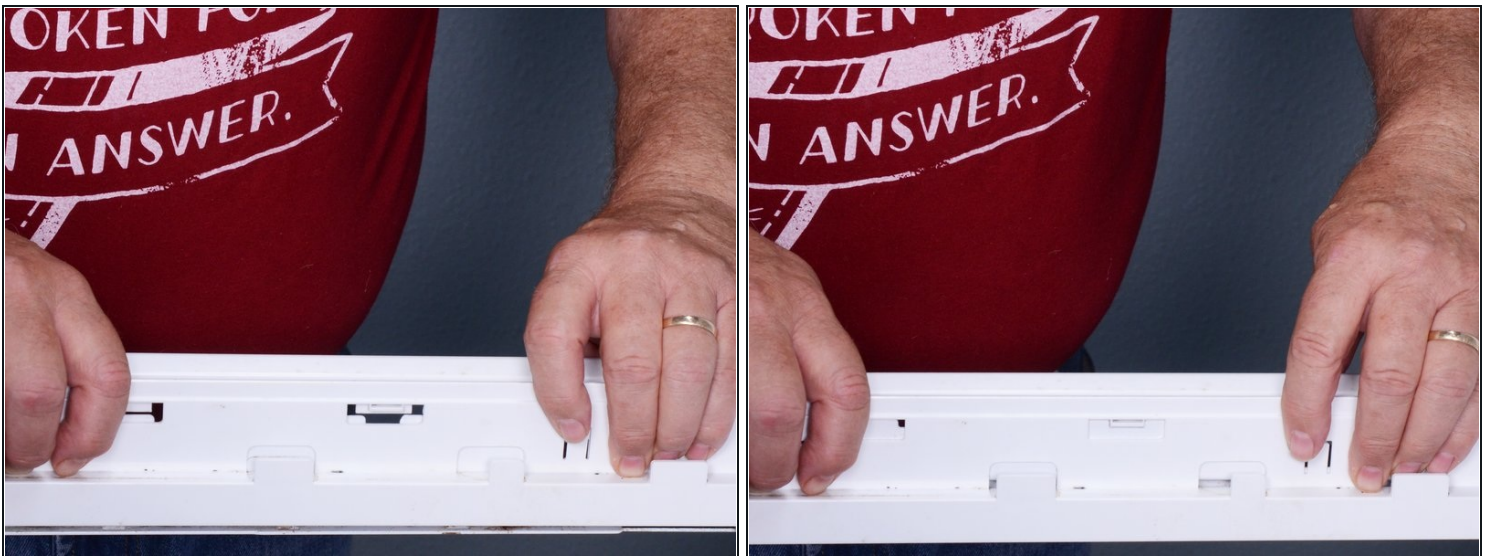
- Lift and remove the upper pull-out drawer.
- Lift and remove the main drawer bin.

Step 4 — Remove the drawer rail covers



- Use your finger or a flat-blade screwdriver to depress the two locking tabs on the right drawer rail cover.
- Lift the cover off of the rail and remove it.
- Repeat this procedure for the left drawer rail cover.

Step 5 — Reassembly notes



- ☑ The drawer rail covers can be tricky to reinstall. Follow these steps to reinstall them:
 - Hold the drawer rail cover flush against the side of the drawer rail.
- ⓘ You should feel the locking tabs protruding.
 - Push the rail cover straight downward to install. It should click into place.

Step 6 — Remove the drawer



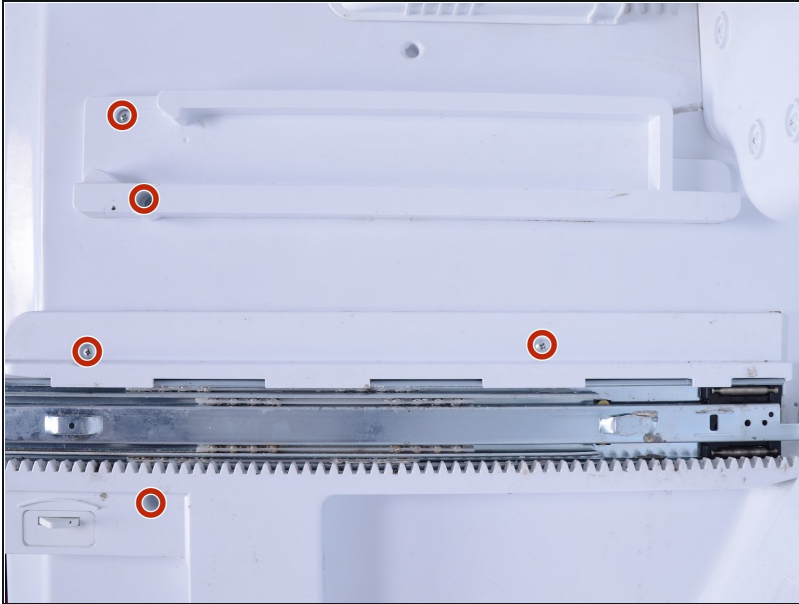
- Use a Phillips screwdriver to remove the screw securing the drawer to each of the drawer slides.

Step 7



- Lift the front of the drawer up.
- Pull the drawer toward you to release the drawer from the drawer slides.
- Remove the freezer drawer.

Step 8 — Release the drawer slides



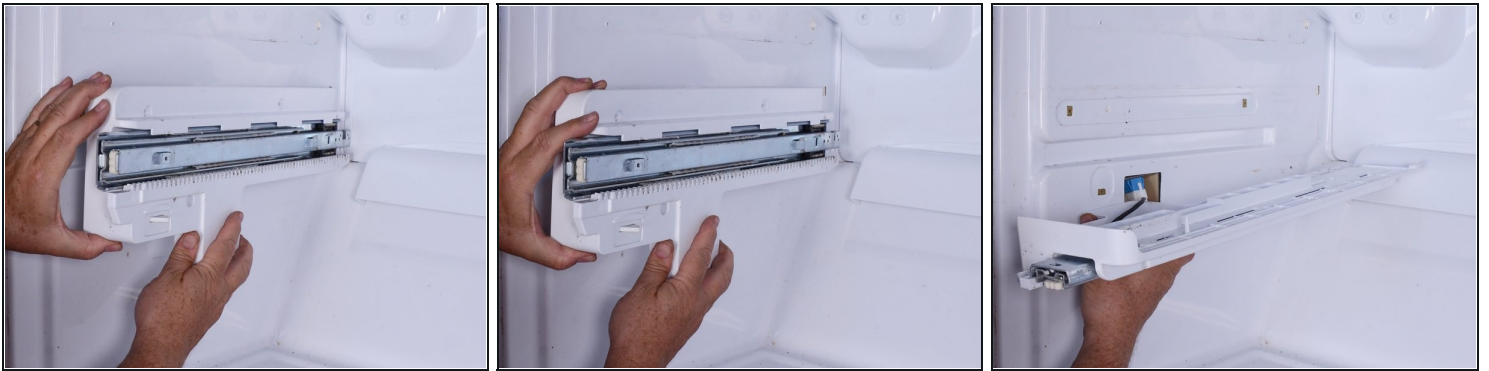
- Use a Phillips screwdriver to remove the screws securing both left drawer slides.

Step 9 — Remove the upper left drawer slide



- Pull the upper left drawer slide slightly towards you to release the locking tab at the rear.
- Remove the upper left drawer slide.

Step 10 — Release lower left drawer slide and reposition it



- Pull the lower left drawer slide slightly toward you to release the locking tab at the rear.
- Reposition the lower left drawer slide to gain access to the door switch connector.

Step 11 — Disconnect the drawer switch and remove the lower slide



- Squeeze the door switch connector to release it.
- Pull the door switch connector down to disconnect it.
- Remove the lower left drawer slide.

i If you are removing the freezer evaporator cover, likely only the left-hand slides may need to be removed. In some cases you will need to repeat the previous three steps to remove the right slides as well.

Step 12 — Release the ice maker



- Use a Phillips screwdriver to remove the screws securing the ice maker to the top of the freezer compartment.

Step 13



- Insert a flat-blade screwdriver into the slot located on the right edge of the ice maker.
- Pry outward with the screwdriver to release the locking tab securing the ice maker to the fridge.
- When the tab releases, pull the right front corner of the ice maker down.

Step 14



- Repeat the previous operation on the left side of the ice maker to release it.

Step 15



- Grasp the front edge of the ice maker and pull it towards you.
- Lower the ice maker.

Step 16 — Disconnect and remove the ice maker



- Squeeze the ice maker connector to release it and pull it straight out to disconnect it.
- Remove the ice maker.

Step 17 — Remove air return cover



- Pinch the rear portion of the air return cover to release it from the freezer wall.
- Pull the air return cover outward and remove it.

Step 18 — Unfasten the evaporator cover



- Use a Philips screwdriver to remove the screw (or screws) securing the evaporator cover.

Step 19 — Reposition the evaporator cover



⚠ Don't try to remove the evaporator cover fully, as it is still connected to the fridge with a number of wires.

- Grasp the evaporator cover by the air vent openings and pull the top edge toward you.

Step 20



- Lift the evaporator cover slightly to release the tabs at the lower edge.
- Swing the left edge of the evaporator cover toward you and lower it.

Step 21 — Disconnect the evaporator cover



- Disconnect the electrical connections in the upper left corner of the freezer.

☒ Make a note of the locations of the connections for re-installation.

Step 22



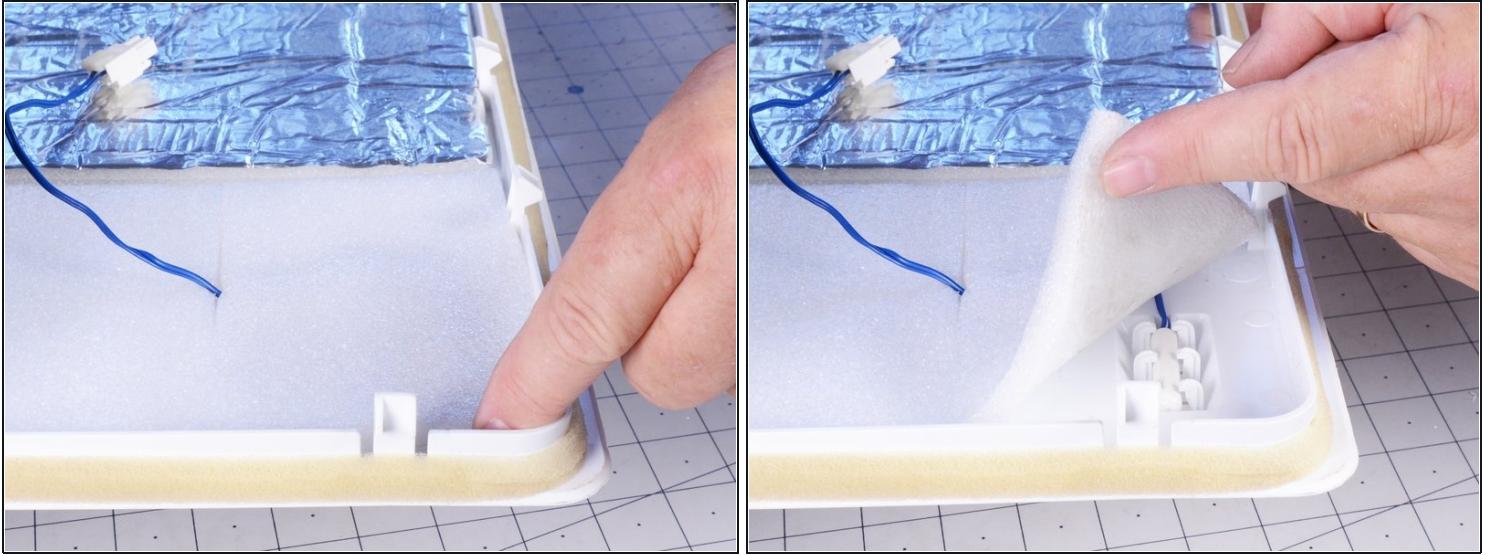
- Swing the left edge of the evaporator cover further toward you to access the connections in the upper right corner.
- Squeeze and pull the connector to disconnect the thermistor mounted in the evaporator cover.

Step 23 — Remove the evaporator cover



- Remove the evaporator cover.

Step 24 — Peel up the insulation



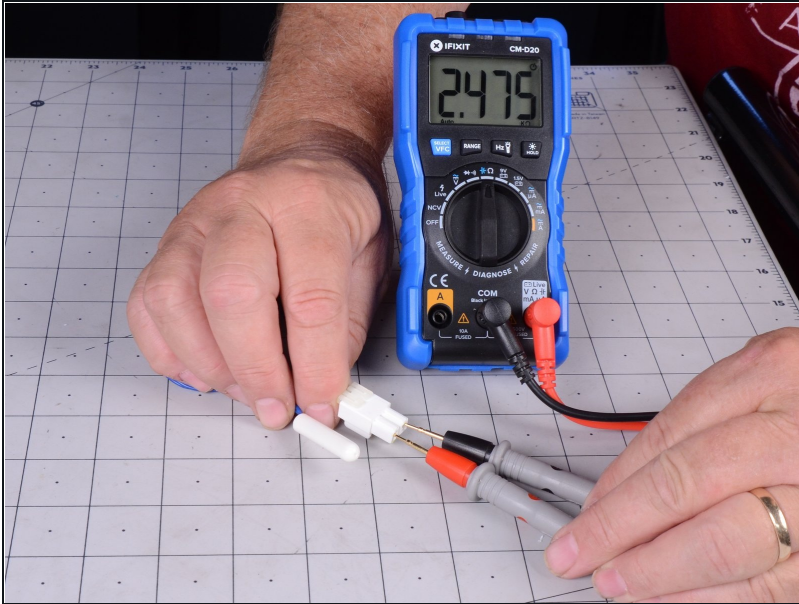
- On the rear of the evaporator cover, peel up the insulation pad covering the thermistor.

Step 25 — Remove the thermistor



- Use a spudger to pry the thermistor out of its mounting clips.
- Thread the thermistor through the slot in the insulation pad and remove it.

Step 26 — Test the thermistor



- ① If you have a multimeter, you can test the freezer thermistor for proper resistance.
- Set the multimeter to the ohm setting.
- Measure the thermistor's resistance across the two terminals on the connector.
- ① Attached is a [chart of the resistances of the freezer thermistor at various temperatures](#).

To reassemble your device, follow these instructions in reverse order.

Take your e-waste to an [R2 or e-Stewards certified recycler](#).

Repair didn't go as planned? Try some [basic troubleshooting](#), or ask our [Answers community](#) for help.