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Appliance Troubleshooting



Presented by Mark Cukro

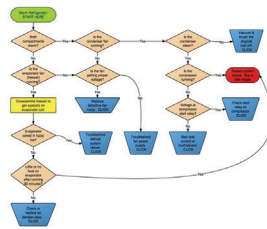


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Objectives

- Troubleshoot more effectively
- Apply different search methods
- Reduce diagnostic time
- Test a circuit in seconds
- Tips for applying new methods in the field



3

You Save

For Saving 1 Electric Range

You Instantly Save \$575.00



4

You Save

For Saving 1 Refrigerator

You Instantly Save \$875.00



5

You Save

Minimize 1ea. 20.00 part per week x 50 weeks

You save \$1,000.00 per year



Save a Fridge

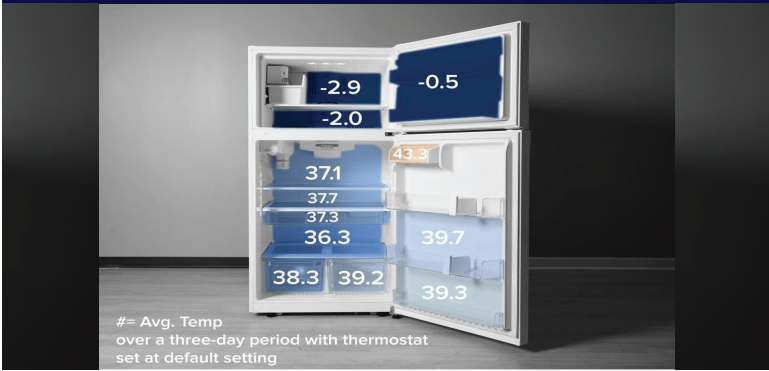


Refrigerators

What are you troubleshooting?

- Time
- Temperature
- Airflow
- Water Flow
- Energy
- A Function
- Operator Error
- Overall Performance

Refrigerators



Defrost Timer

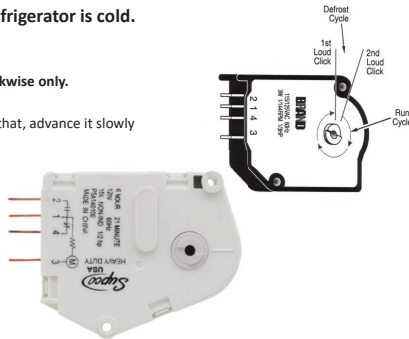
Problem: Compressor is running but refrigerator is cold.

Find and advance the defrost timer

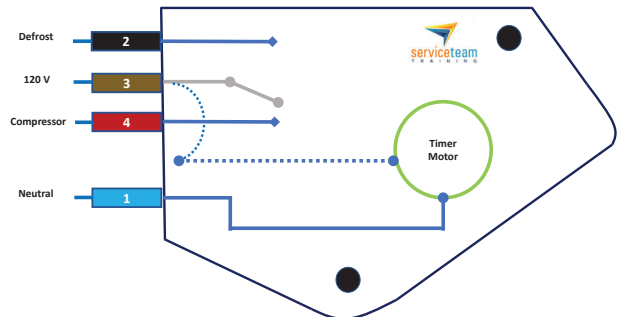
Locate timer and advance pinion by turning it **clockwise only**.

You will feel it clicking and hear a loud click. After that, advance it slowly and you will feel another louder click.

Between the two loud clicks is the defrost cycle.



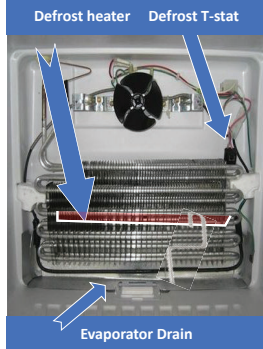
Defrost Timer



Defrost Timer

Water is dripping into the fresh food section

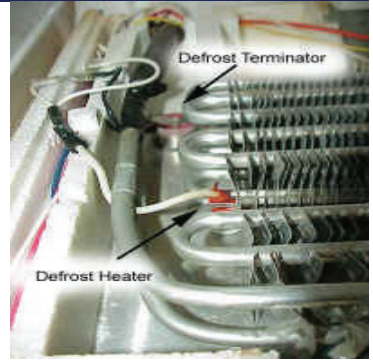
- Remove interior freezer panels and remove all ice from bottom tray.
- Melt ice with Hot water and install a A Drain Probe which will radiate heat and prevent the drain from clogging with ice.
- Why is it important to use an aluminum probe?
Dislike metals will cause corrosion
- Why is it important for the probe to not to contact the heater element?
To prevent damaging the element



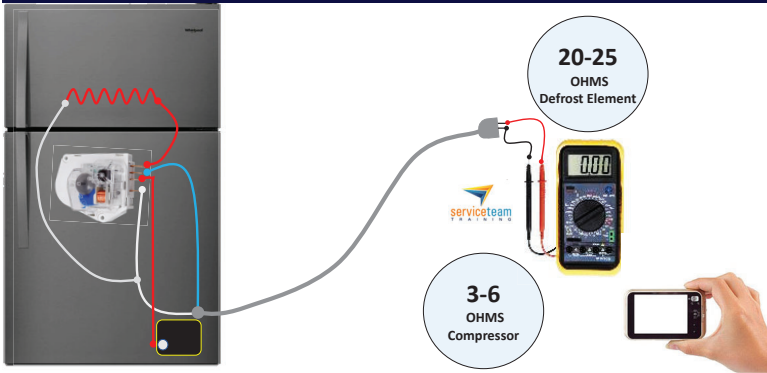
Termination T-stat

The defrost heater's cycle is terminated by time and/or temperature.

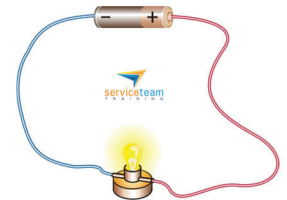
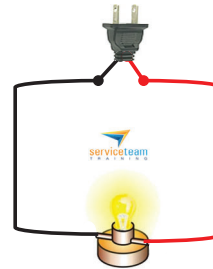
- Termination of the defrost cycle is determined by Timer and/or the Temperature.
- Below a freezing temperature the t-stat should have Continuity.
- If not, it is BAD.



Refrigerators



Types of Circuits

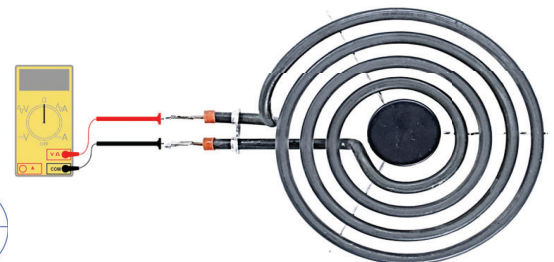
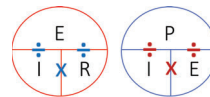


Save a Range

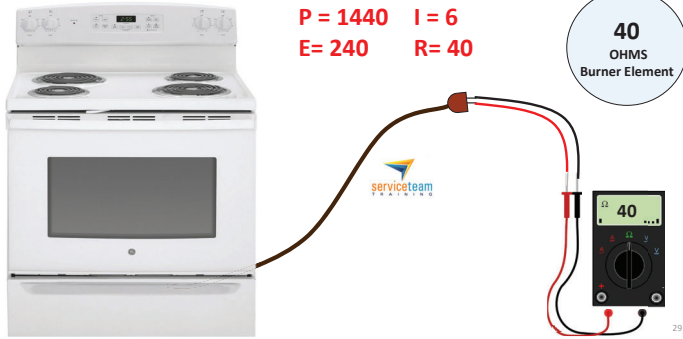


Measuring Ohms

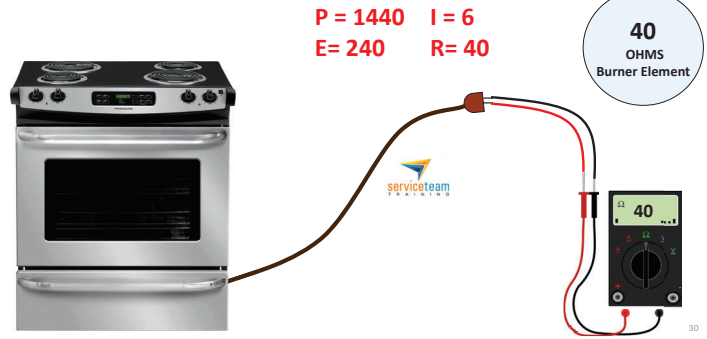
$P = I \times R$
 $E = 240$
 $I = 6$
 $R = 40$
 Watts =



Refrigerators



Refrigerators



Summary

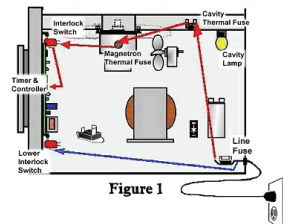
- **Have the correct test equipment**
- **Build your skills** with using meters
- Know what type of circuit you are testing
- Know how each component works correctly
- **Match all ratings** on components and equipment
- Follow codes
- **Your safety is your responsibility first**
- Don't take unnecessary risks
- Trust the process of troubleshooting

• **Go home safe** 😊



Recommended Repairs on Microwaves

1. Light Bulb
2. Fuses - Line Fuse – Cavity or Thermal
3. Diode
4. Interlock switch - door
5. Control board/touchpad (check cost)
6. Magnetron - **NOT recommended**



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