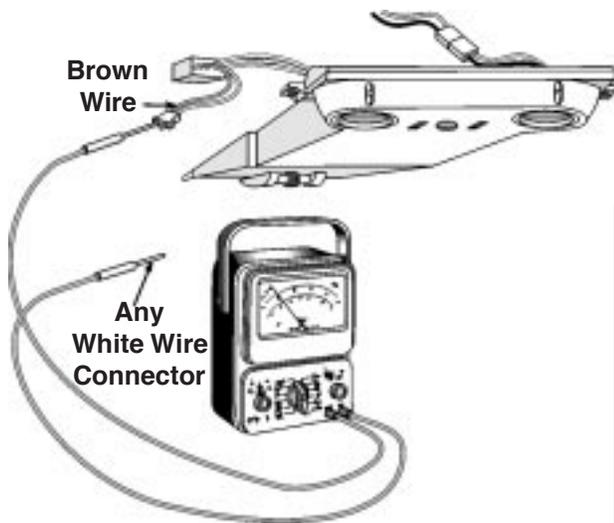


Defrost Heater (All models except Mullion Evaporator Design)

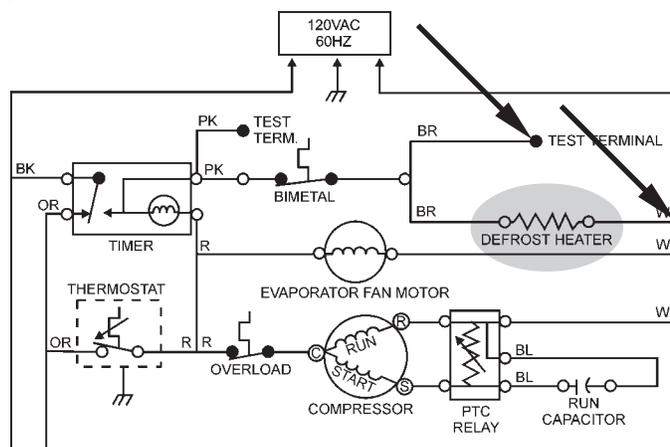
The Defrost heater can be tested with an ohmmeter set on the Rx1K scale.

To Test the Defrost Heater:

1. Follow the procedure for removing the control box on the specific unit being serviced.
2. Locate the test lead plug inside the control box.
3. Set the volt-ohm meter to the Rx1 scale.
4. Place one probe of a VOM in the brown wire terminal of the test lead plug. Place the other probe on any white wire connector. The VOM should show continuity.



NOTE: In Mullion Evaporator Models the test lead wire color is blue.



Compressor

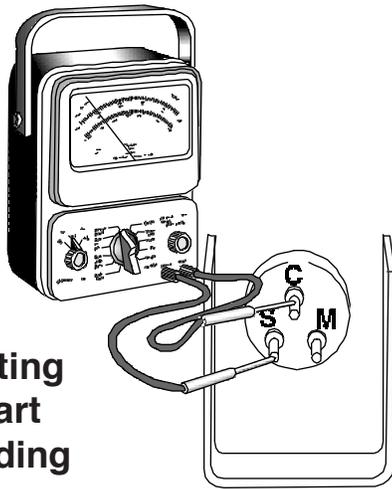
The Compressor can be tested with an Ohmmeter.

To Test the Compressor:

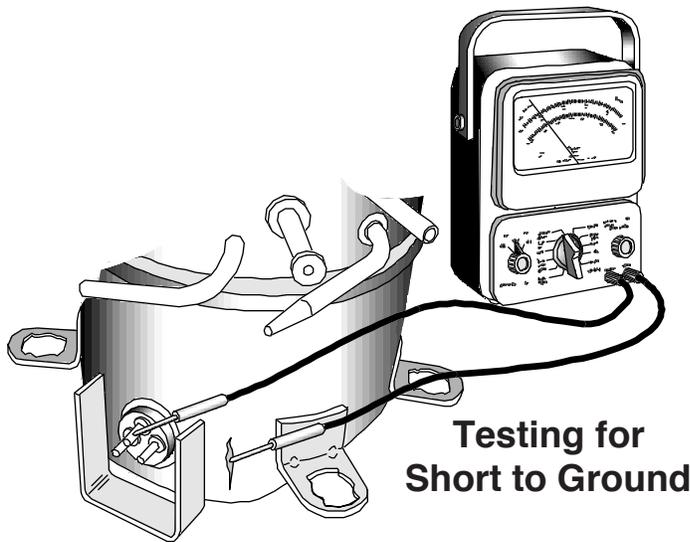
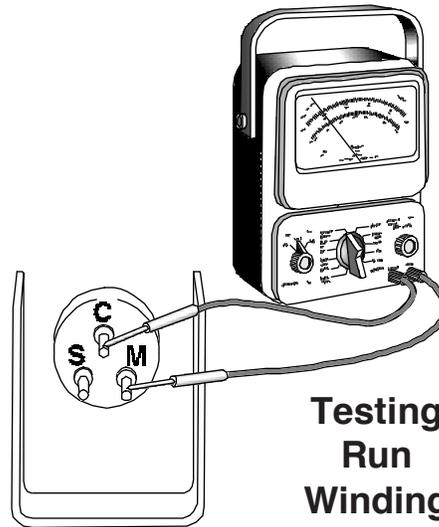
1. Remove the PTC Start Relay and Overload Protector from the terminals of the compressor.
2. Place the probes of a VOM (Rx1 scale) on terminals "C" and "S". The VOM should read between 6 and 22 ohms.
3. Place the probes of a VOM on terminals "C" and "M". The VOM should read between 1.5 and 6 ohms.
4. Place the one probe of a VOM (highest scale) on terminal "C" and scratch through the paint on the compressor body so the probe contacts bare metal. The VOM should read infinity (open circuit).

NOTE: Main motor winding may be designated as M or R.

Testing Start Winding

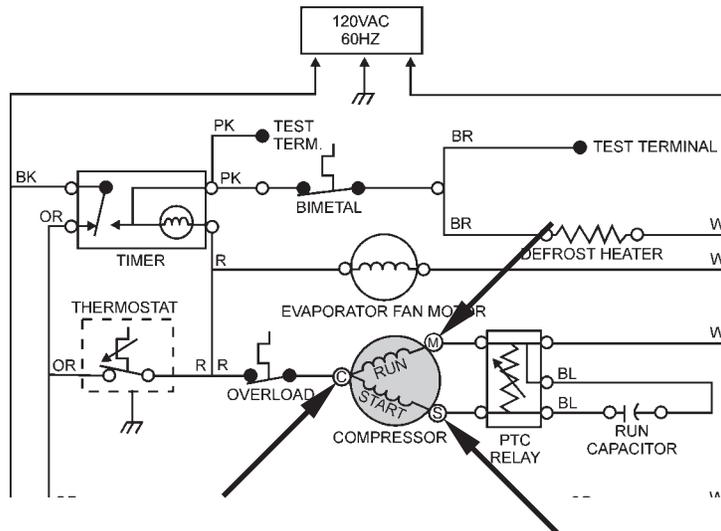
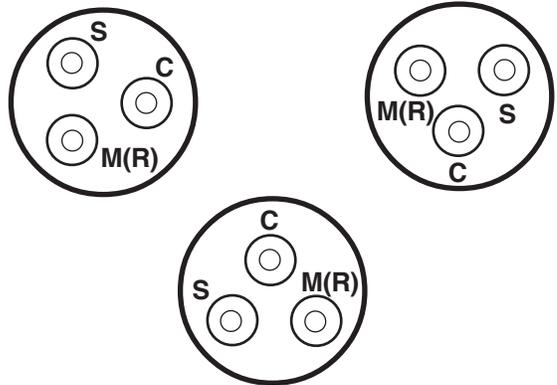


Testing Run Winding



Testing for Short to Ground

Compressor Terminal Configurations

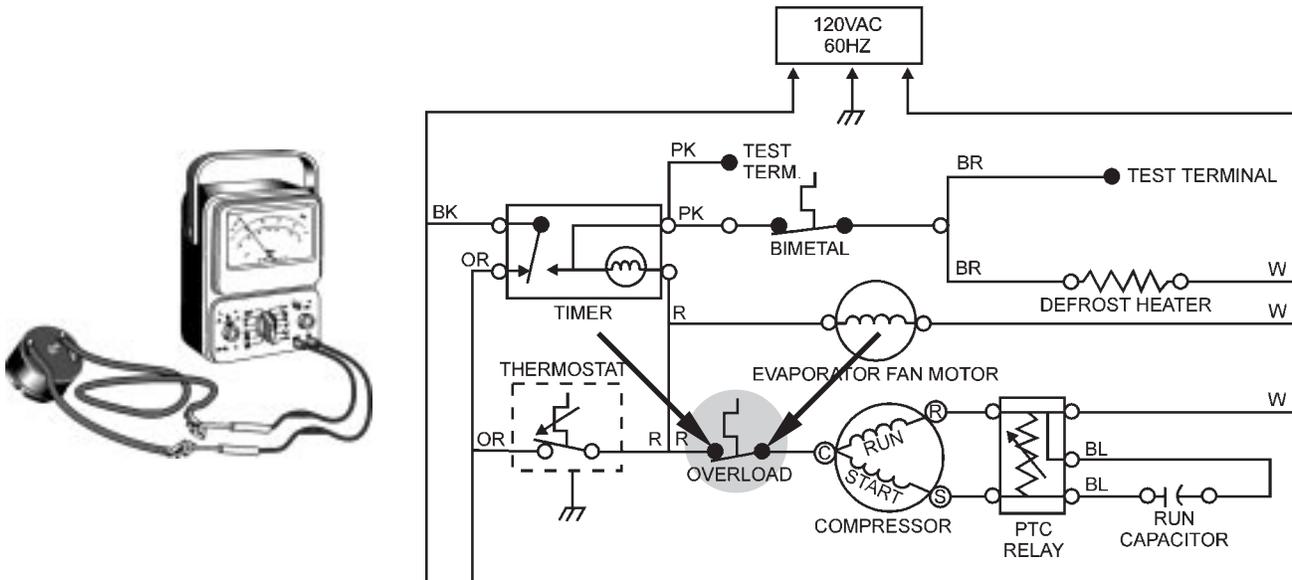


Overload

The Overload can be tested with an ohmmeter set on the Rx1 scale.

To Test the Overload:

1. Locate the overload mounted to the compressor and remove it. Disconnect all wire leads.
2. Set the volt-ohm meter to the Rx1 scale.
4. Place the probes of a VOM on the two wire leads or wire terminals of the overload. The VOM should show continuity at room temperature.

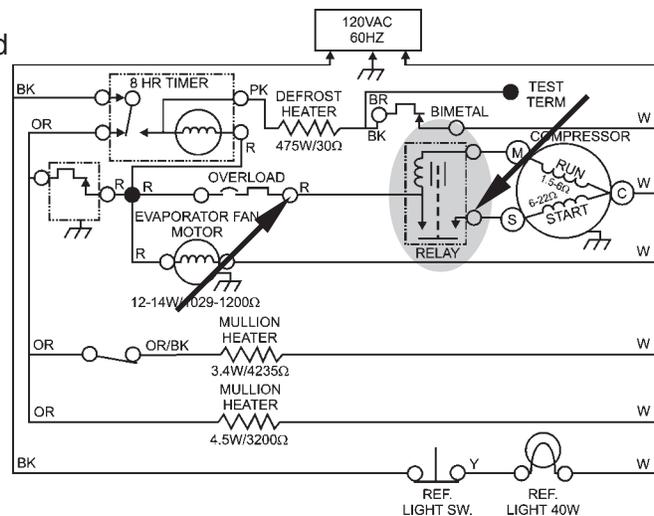
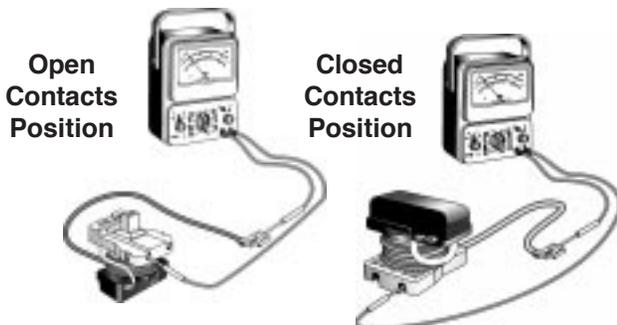


Start Relay

The Start Relay can be tested with an ohmmeter set on the Rx1 scale.

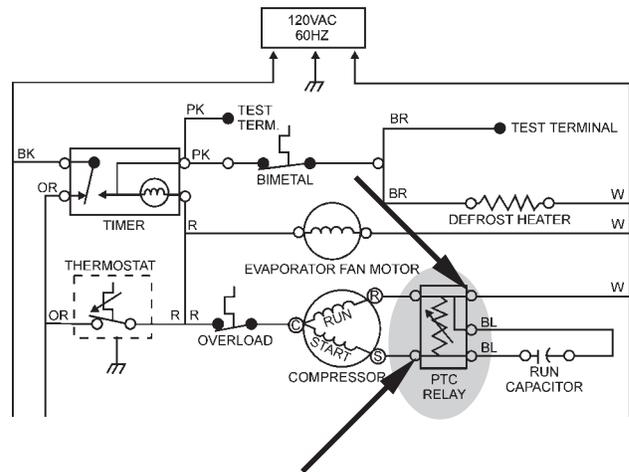
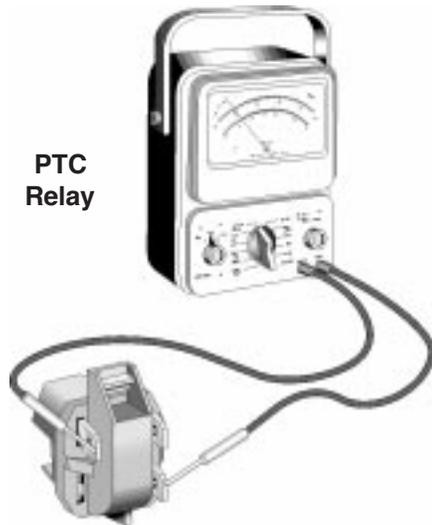
To Test the Current Draw Type Start Relay:

1. Locate the start relay connected to the terminals of the compressor. Pull the relay from the compressor terminals and disconnect all wires.
2. Set the volt-ohm meter to the Rx1 scale.
3. Place the probes of a VOM on the red wire lead or terminal 1. Place the other probe in the start pin receptacle (left side).
 - a. In the upright position the VOM should show infinity (open circuit).
 - b. In the inverted position the VOM should show continuity.



To Test the PTC Type Start Relay: (Test the compressor and overload before performing this test.)

1. Locate the start relay connected to the terminals of the compressor. Pull the relay from the compressor terminals and disconnect all wires.
2. Set the volt-ohm meter to the Rx1K scale.
3. Place the probes of a VOM on terminals numbered 2 and 3. The VOM should show continuity at room temperature. If VOM shows infinity (open circuit) the PTC Start Relay is defective.
4. If the compressor, overload and PTC relay pass these tests and the unit still will not start, call an authorized Whirlpool Service Technician.



Run Capacitor

The Run Capacitor can be tested with an ohmmeter set on the Rx10K scale.

To Test the Capacitor:

1. Locate the capacitor in the compressor compartment.
2. Discharged the capacitor by shorting across the terminals with a screwdriver with an insulated handle. Disconnect the wiring harness connectors from the capacitor terminals.
3. Set the volt-ohm meter to the Rx10K scale.
4. Place the probes of a VOM on the two terminals of the capacitor. The VOM should deflect momentarily and then show infinity (open circuit). If the meter does not deflect or the meter shows continuity the capacitor is defective.

