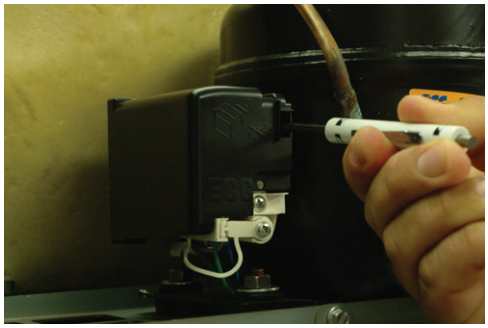
JDF-S Testing the Compressor

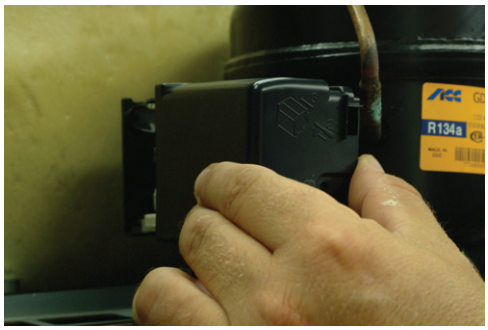
A voltmeter will be needed to check the resistance value of the compressor common, start and run winding. The technical data is provided below for the compressor.

Step1: Disconnect power.

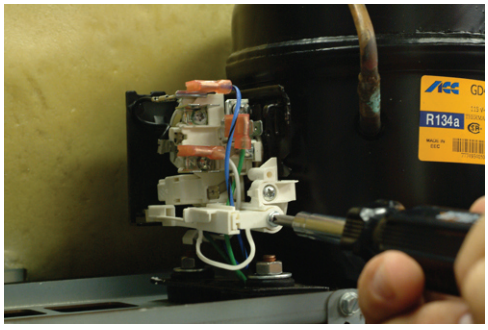
Step 2: Remove slotted screws in rear panel and remove panel from machine.

Step 3: Locate the open slot at the rear of the utility cover on the side of the compressor. Use small flat blade screw driver to push in locking tab and gently pull utility cover toward the rear of the dispenser and set aside.

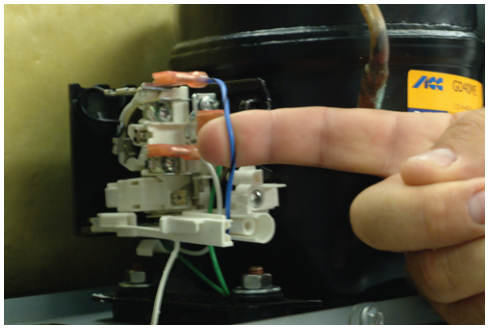




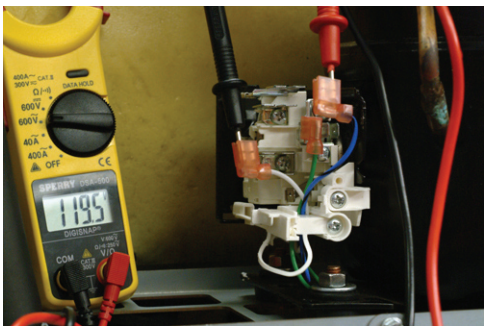
Step 4: Release the harness restraint by removing the screw and pulling the restraint outward and out of the way.



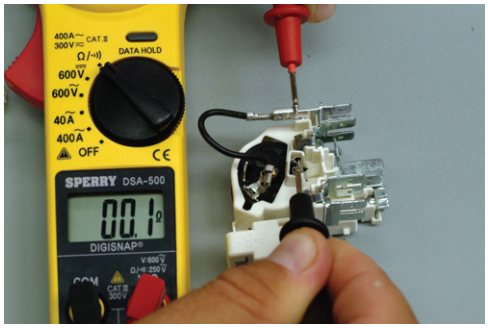
Step 5: Locate blue/black wire and install amp clamp around wire. Reconnect power and wait for 6 minute time delay before compressor is activated. Monitor the run load amperage. The run load amp range can be 2.3 to 3.0 amps.



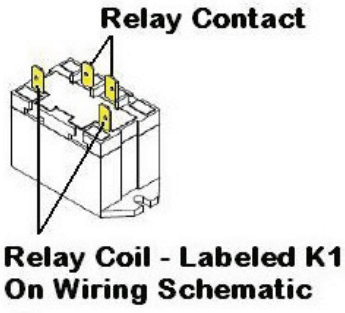
Step 6: If no amperage is present, check for 120VAC across blue/black (hot) wire and white (neutral) on the ptc relay.



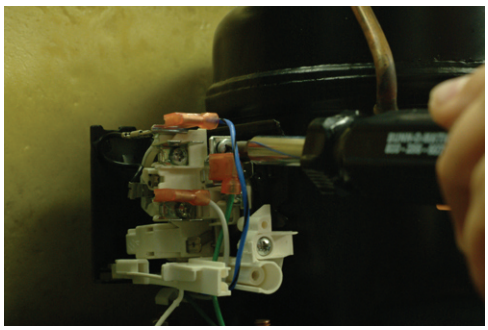
If 120VAC is present then check compressor overload. Unplug machine and check overload for continuity. For instructions on removing or testing the overload and ptc relay review the JDF-S Testing Compressor Overload and PTC Relay instruction sheet.

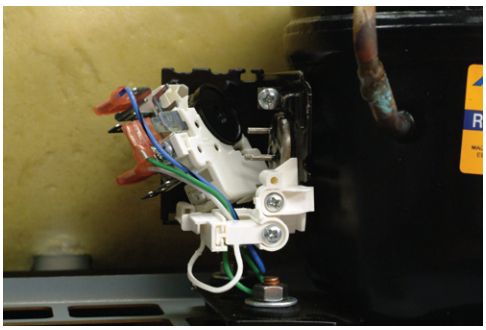


If 120VAC is not present then go back to the compressor relay and check for activation of the relay after 6 minute delay from initial power up.

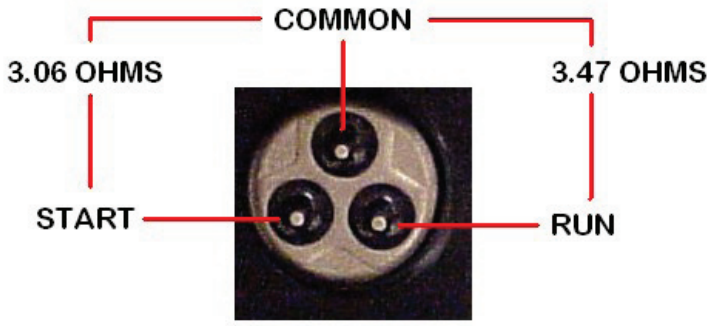


Step 7: Disconnect power source. Locate the philip/standard screw holding the ptc relay in position. Loosen the screw; the ptc relay is now ready to be removed from compressor stud terminals by gently pulling ptc relay away from the compressor.





Step 8: Set your voltmeter on ohm or resistance setting and install one meter lead to the casing or housing of the compressor while the other lead is being referenced to each stud terminal on the compressor. The reading must be infinite (open) on your voltmeter. If the meter reads a value, this is an indication of a shorted winding to the casing. The resistance value among the start and run winding may not be exact to the data provided because of various elements (meters, connection, temperature, etc). The technical data can be used as a reference guide against your meter reading.



Resistance reading between C & S and C & R will equal S & R reading.

Compressor Technical Data:
Manufacture: ACC (Appliances Components Companies)
Model: GD40ME_B
Compressor resistance @ 77º Fahrenheit
3.06 ohms + 3.47 ohms = 6.53 ohms
C & S + C & R = S & R
Locked Rotor Current: 23 Amps
Run Load Amps: 2.73 Amps
Voltage Range: 98 – 132VAC