



SERVICE BULLETIN 397

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Date: 22 Jun 2015

Revision: 02

SUBJECT: Optimized Placement of Bimetal Switch

Number of
People
Required



MODELS: Freezer

KIT NUMBER

KIT DESCRIPTION

N/A

N/A



The following areas of this vender contain voltage which can cause serious injury or even death: the main power cord, supplying 115-230 VAC to the evaporator, EMI filter, refrigeration system, monitor, and computer; the power line from the EMI filter to the ballast and transformer; and the ballast, which can produce upwards of 600 volts. Remove all power from the vender before working in any of these areas.

TOOLS REQUIRED: Phillips screwdriver

ESTIMATED INSTALLATION TIME: As little as 15 minutes; if evaporator is frozen solid, possibly more than an hour

PURPOSE OF THIS BULLETIN: On Royal Vendors Freezers with serial numbers 201518RA00054 and before, the bimetal switch in the refrigeration assembly was placed on the 1/4" line going into the expansion valve, which may not allow the cabinet to pull down to the correct temperature. This bulletin explains the procedure for optimizing the location of the switch.

INSTALLATION INSTRUCTIONS:

Before performing the steps below, remove any food from the freezer to prevent loss during warm-up.

Part 1. Defrosting the unit (necessary if the evaporator is iced over).

1. Open the door, and tape the door switch down (in the closed position). The door switch is located on the top right of the grille.
2. In the bottom right of the cabinet, unplug the power cord to the compressor. **Note:** It is imperative that the evaporator be completely defrosted before performing Parts 2 and 3 below. These first two steps are necessary to allow the evaporator fan motor to circulate air while keeping the compressor turned off, which speeds up defrosting time. Dry cloths or towels will be needed to soak up the water from the melting ice.
3. Once the unit is completely de-iced, plug the compressor's power cord back in and remove the tape on the door switch.

Part 2. Relocate the Bimetal Switch.

1. Remove power by unplugging the vender's power cord from the AC voltage source (wall outlet).
2. Remove the two bottom shelves from the cabinet.
3. Remove the six Phillips-head screws that secure the evaporator cover (located inside the cabinet). Then, remove the evaporator cover.
4. Remove the bimetal switch from the 1/4" line going to the expansion valve. (See Figure 1.)
5. Clip the bimetal switch onto the 3/8" line coming out of the expansion valve. (See Figure 2.)
6. Reinstall the evaporator cover and secure it with the six screws that were removed in Step 3.
7. Reinstall the two bottom shelves.
8. Restore power by plugging the vender's power cord into the AC voltage source (wall outlet).

Part 3. Change the Defrost Interval and Defrost Duration.

1. Press and hold the Set button until "PS" is shown on the display, then release the button.
2. Press the Set button one time. "0" should show on the display.
3. Press the Up button until the display shows "28".
4. Press the Set button one time.
5. Press the Up button until the display shows "DI" (Defrost Interval).
6. Press the Set button. The display should show "4".
7. Press the Down button one time. The display should show "3".
8. Press the Set button one time. The display should again show "DI".
9. Press the Up button until the display shows "DP" (Defrost Duration).
10. Press the Set button. The display should show "12".
11. Press the Up button until the display shows "18".
12. Press the Set button one time. The display should show "DP".
13. Press and hold the Set button until the menu is exited. The display should now show the current temperature.

In an effort to provide our customers with the latest information on our equipment, Royal Vendors sends service bulletins to customers using the original ship-to address or e-mail addresses, if supplied by our customers. We also post all service bulletins on our website at www.royalvendors.com. If for any reason a vender is moved to another location or is sold to another customer other than to whom Royal Vendors originally sent the machine, it is the responsibility of the original purchaser of the vender to notify the appropriate personnel of the service bulletin.

**ANY QUESTIONS? CONTACT ROYAL VENDORS' CUSTOMER SERVICE DEPARTMENT
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Figure 1, at right.

The bimetal switch is shown here placed on the 1/4" line *going to* the expansion valve.

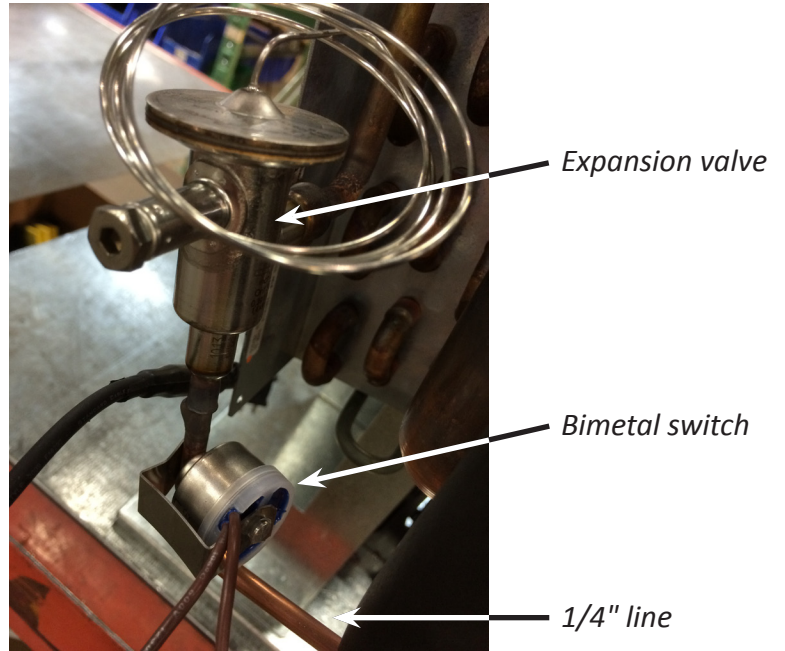
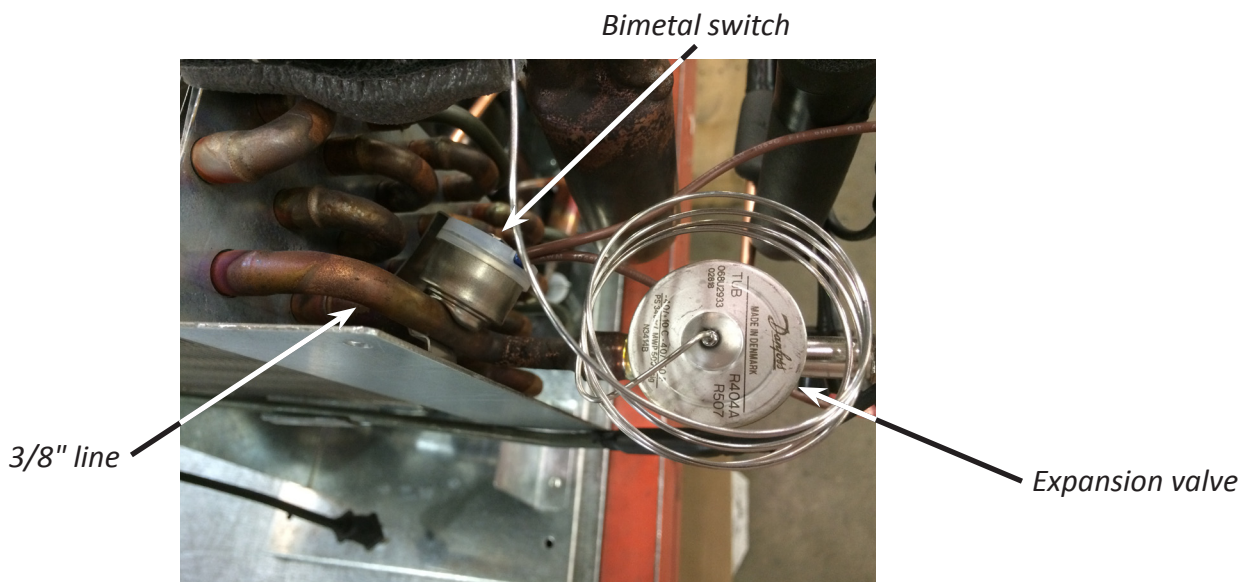


Figure 2, below.

In this photo, the bimetal switch has been moved to its optimized location, on the 3/8" line *coming out of* the expansion valve.



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