SERVICE BULLETIN 315

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Date: 17 Feb 10

Revision: 01

SUBJECT: Energy Star® Tier 2 Temperature Sensor Conversion Kit Installation

MODELS: All conventional venders

Number of People Required

KIT NUMBER	KIT DESCRIPTION
286020	Tier 2 Temperature Sensor Kit

TOOLS REQUIRED: Phillips screwdriver

ESTIMATED INSTALLATION TIME: 20 minutes

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, and refrigeration system; 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.

REASON FOR BULLETIN:

This bulletin describes the process for converting older non-Energy Star or Energy Star Tier 1 venders to the newer Energy Star Tier 2 standard for refrigeration control.

NOTES:

1. *Prior to installing this kit, an evaporator fan relay should be installed. If the vender does **not** already have an evaporator fan relay installed, order kit number 357102 (serial numbers beginning 200211 to 200721; see Service Bulletin 316) or kit number 296050 (serial numbers beginning 200210 and before; see Service Bulletin 214).*
2. *Energy Star does not recognize an upgrade from Tier 1- to Tier 2-compliance in their certification.*
3. *There is no difference in the equipment markings between an Energy Star Tier 1- and a Tier 2-compliant vender.*
4. *This modification **does not** change the Energy Star rating or certification; the equipment will still be rated Energy Star Tier 1-compliant.*
5. *This information is being provided solely for the purpose of providing our customers with the option of making the necessary changes to their equipment to provide the energy consumption reduction seen on newer equipment. The only benefit to this change is the ability to reduce energy consumption to the same levels as current-production venders.*

INSTALLATION INSTRUCTIONS:

Note: *The vender's control board must have Configuration 11 (KO models) or Configuration 14 (all others) to be Energy Star Tier 2-compatible. If it does not, the control board must be updated.*

1. Remove power by unplugging the vender's power cord from the AC voltage source (wall outlet).
2. Loosen the screws that secure the wiring cover plate, removing one of them completely. Turn the cover plate upward to move it out of the way. *(Refer to Figure 1.)*
3. Remove the screw and the bolt from the product chute bracket. Remove the product chute from the cabinet. *(Refer to Figure 2.)*
4. Install the temperature sensor mounting bracket in the location shown in Figure 3. Secure the sensor with the two screws from the kit.
5. Remove the clips that hold the evaporator cover in place. Then, remove the evaporator cover.
6. Remove the temperature sensor from the back wall. If the sensor is clipped into a mounting bracket, simply unclip the sensor to remove it. If the sensor is hard-mounted to the rear wall with rivets, remove the rivets with a chisel.
7. Remove the temperature sensor's harness from the evaporator fan shroud bushing.
8. Clip the temperature sensor into the bracket that was just installed below the product chute. *(Refer to Figure 4.)*
9. Re-install the evaporator cover. Secure it with the clips that were removed in Step 5.
10. Re-install and secure the product chute. Also secure the wiring cover plate and the screw that was removed in Step 2.
11. Restore power by plugging the vender's power cord into the AC voltage source (wall outlet).
12. Press the mode button on the vender's main controller to enter the service mode.
13. Enter the internal (service) menu, and go to "Con" / "Configurations."
14. Press <enter>, then go to C11 (KO models) or C14 (all others).
15. Press <enter>. The display will show "0." Press <up> to change the display to "1." Press <enter>.

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
IN NORTH AMERICA, CALL TOLL FREE 1 800 931 9214

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Figure 1.

Loosen the screws that secure the wiring cover plate, and turn it upward.

Wiring cover plate

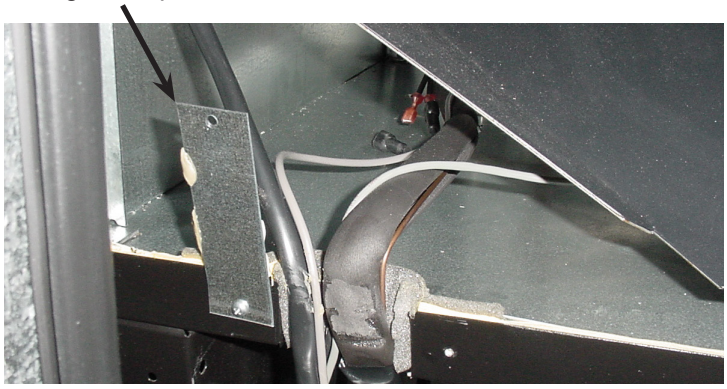


Figure 2.

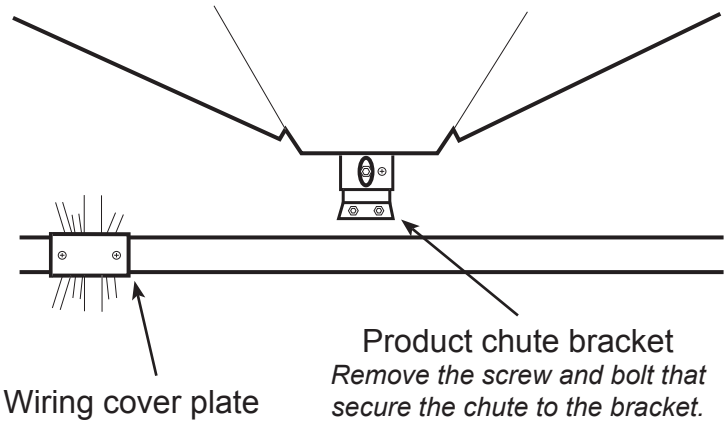


Figure 3.

Install the temperature sensor mounting bracket. Install it directly in front of the evaporator, about mid-way between the evaporator and the product chute bracket.

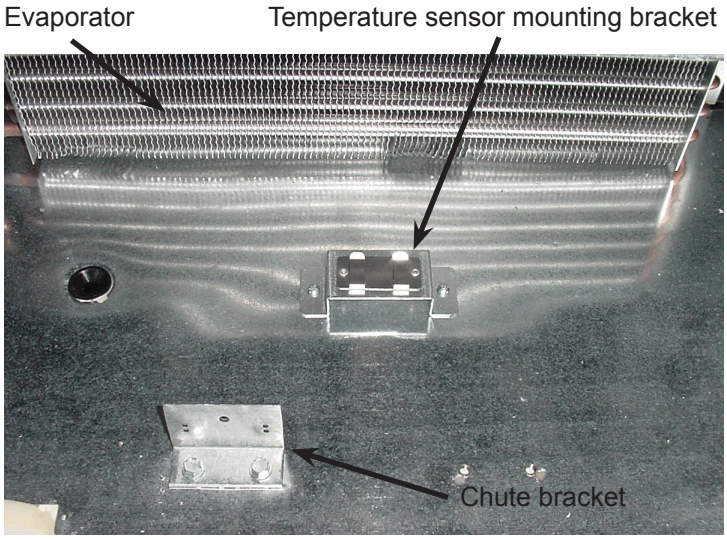
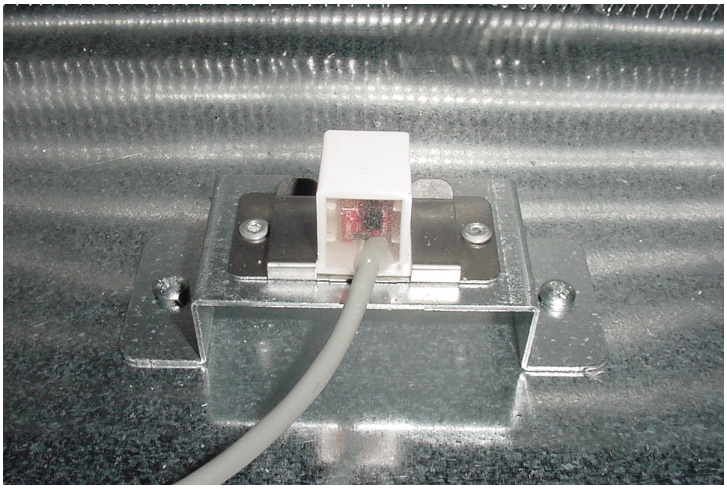


Figure 4.

Slide the temperature sensor into the bracket clips as shown.



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