



SERVICE BULLETIN 329

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Date: 11 Aug 10

Revision: 00

SUBJECT: Piezoresistive Chute Sensor Installation

Number of
People
Required



MODELS: All conventional venders

KIT NUMBER **KIT DESCRIPTION**

210123 Piezo Chute Sensor Assembly (one-piece harness)

210124 Piezo Chute Sensor Assembly - Cabinet Side (two-piece harness)

TOOLS REQUIRED: Phillips screwdriver, 3/8" (10 mm) nut driver, hammer, chisel, rivet gun

ESTIMATED INSTALLATION TIME: 5 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REASON FOR BULLETIN: Beginning with vender serial number 201030BA00001, the older-style chute sensor has been replaced by a piezoresistive sensor. This bulletin explains the procedure for installing the newer sensor in place of the original-style sensor.

INSTALLATION INSTRUCTIONS:

1. Remove power by unplugging the vender's power cord from the AC voltage source (wall outlet).
2. Disconnect the chute sensor from the control board.
3. 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.)
4. Remove the screw and the bolt from the product chute bracket. Remove the product chute from the cabinet. (Refer to Figure 2.) **Note:** Once the product chute is removed, the chute bracket will be exposed. The edges of this bracket are sharp. Use caution when working around the chute bracket to prevent serious injury.
5. Lift the black plastic Kydex® chute cover, and locate the two rivets that secure the chute sensor to the bottom of the chute. Using a hammer and chisel, remove the two rivets.
6. Completely remove the chute sensor harness from the vender's door.
7. Install the new piezo chute sensor as shown in Figure 3. Secure it with the two rivets from the kit.
8. Re-install and secure the product chute.
9. **One-piece harness:** Route the piezo chute sensor harnessing through the wiring cover area, along the main door harnessing, and up to the vender's control board. Plug the chute sensor to the control board at the appropriate position.
Two-piece harness: Route the piezo chute sensor harnessing through the wiring cover area, along the main door harnessing, and plug it into the door-side chute sensor harness.
10. Secure the wiring cover plate and the screw that were removed in Step 3.
11. Restore power by plugging the vender's power cord into the AC voltage source (wall outlet).
12. At the control board potentiometer, adjust the chute sensor's sensitivity as follows: turn the screw clockwise until the red LED (next to the screw) lights up. Then, turn the screw counterclockwise to the exact point where the light shuts off. Then, continue to turn the screw counterclockwise 3/4 of one turn. Vend test for reliability.

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**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.

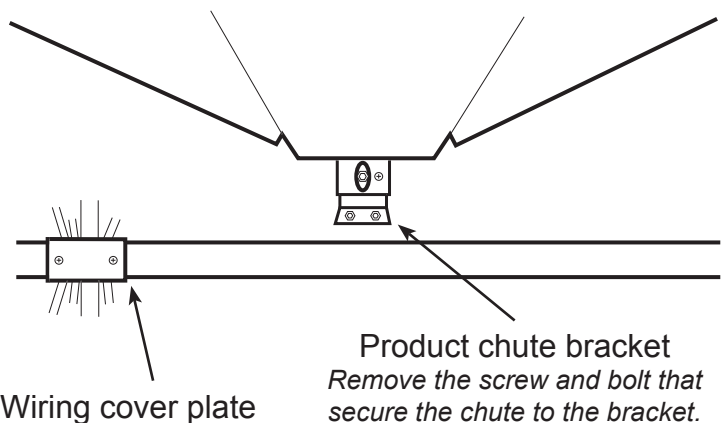
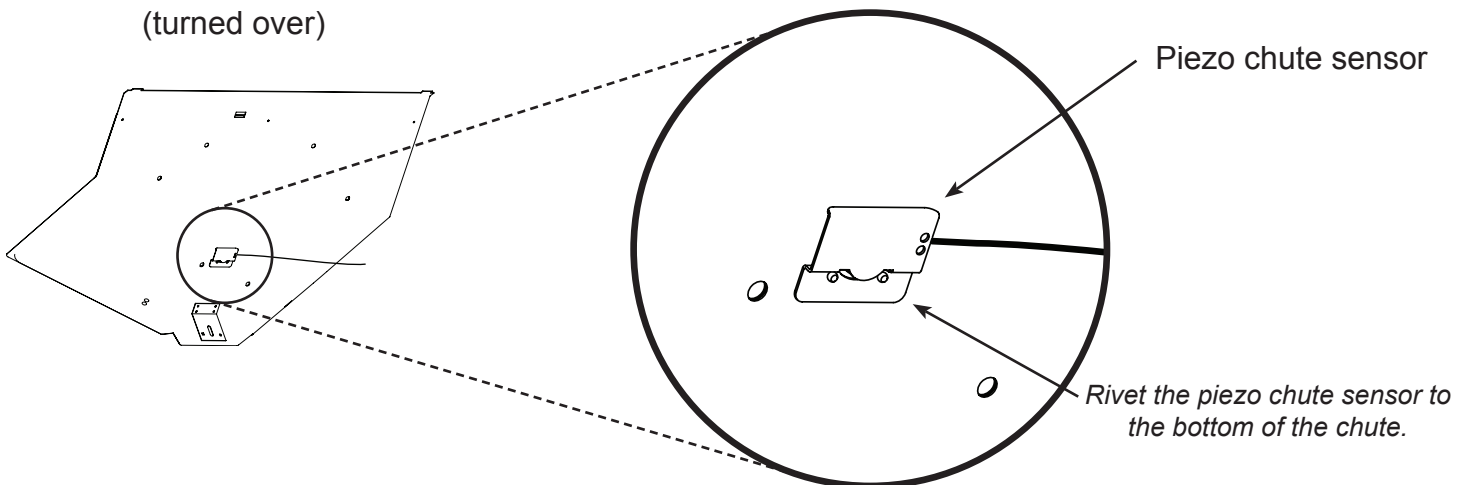


Figure 3.

Mount the piezo chute sensor as shown. Secure it to the chute with the two rivets from the kit. Make sure to apply the rivets from the **top** of the chute, not the bottom. (The bottom of the chute is shown here, with the chute sensor installed.)

Product chute (turned over)



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