




# SERVICE BULLETIN # 00245

426 INDUSTRIAL BOULEVARD • KEARNEYSVILLE WV 25430-2776 • USA  
Phone: (304) 728-7056 • Fax: (304) 725-6579 • Toll Free: (800) 931-9214

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| PAGE: 1 of 2  |
| DATE: 1-30-04 |
| REVISION: 00  |

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| <b>SUBJECT:</b> Merlin Electrical Noise Filter Kit Installation                           | # of People<br>Required  |
| <b>MODELS:</b> Merlin IV, Milk Merchandiser, and EZ Vender with Multi-Layer control board |   |

| Kit Number | Kit Description        |
|------------|------------------------|
| 261109     | Noise Filter Kit - MIV |

**TOOLS REQUIRED:** Phillips screwdriver

**ESTIMATED INSTALLATION TIME:** 5 minutes

**REASON FOR KIT:** Due to electromagnetic noise, on some Merlin IV, Milk Merchandiser, and EZ Venders with Multi-Layer control boards it may appear difficult or impossible to adjust the delivery chute sensor's sensitivity. These boards also may have a tendency to revert to an "Out of Order" state caused by this noise. The noise filter kit should alleviate this problem.

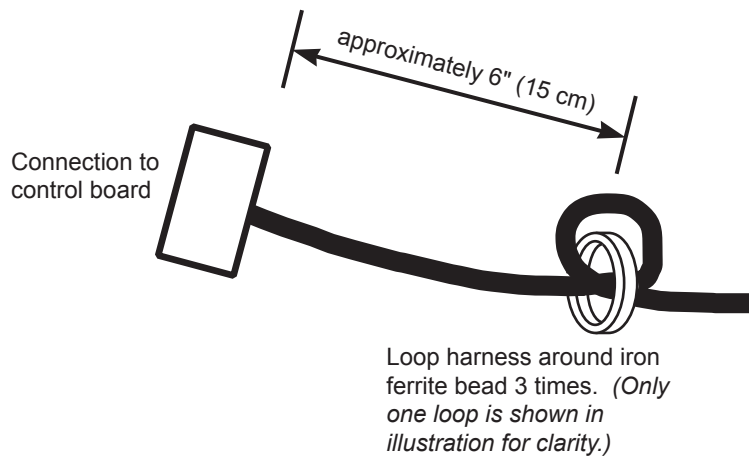
**NOTE:** This kit is only for use with the newer Multi-Layer control board. The Multi-Layer control board can be identified by the presence of a pinout at position P16 (above the service mode button). Older Merlin boards will not have this pinout, which is necessary for use of this kit.

### INSTALLATION INSTRUCTIONS:

1. Remove power from the vender by unplugging the vender's main power cord from the AC voltage source.
2. Disconnect the chute sensor harness from the control board. About 6 inches (15 cm) from the control board, loop the harness around the iron ferrite bead (from kit) **three times**. (See Figure 1.) Reconnect the chute sensor to the board.
3. Plug the noise filter harness to position P16 on the control board. (See Figure 2.)
4. Secure the harness's end to the chassis of the vender door, using the same screw that secures the chute sensor harness's ground (earth) connection.
5. Restore power to the vender by plugging the vender's main power cord to the AC voltage source.

### Figure 1

Installing the iron ferrite bead on the chute sensor harness



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](http://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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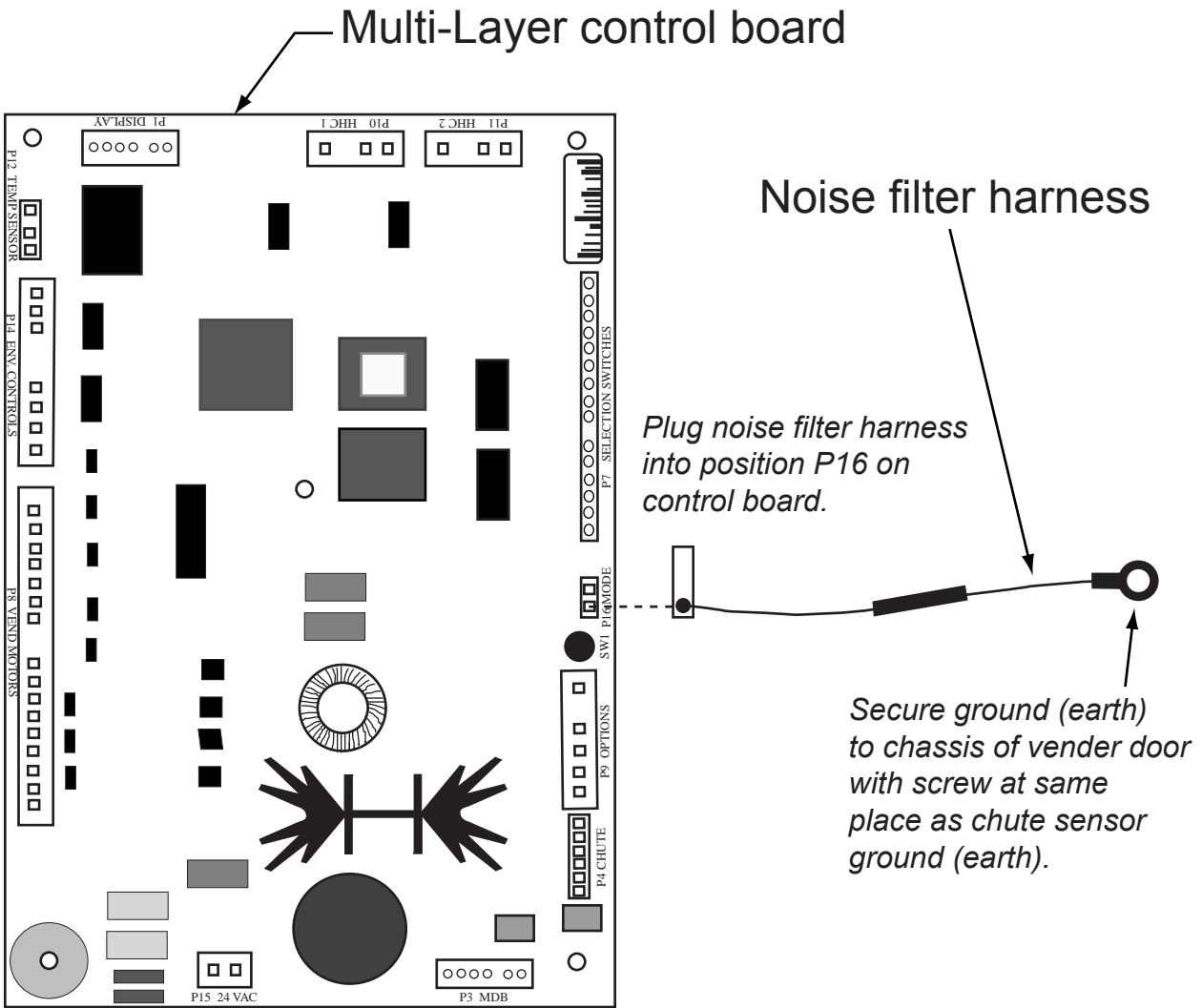
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## Figure 2

Installing and securing the noise filter harness



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