



SERVICE BULLETIN 288

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Page: 1 of 3

Date: 8 Oct 07

Revision: 00

SUBJECT: North American Daylight Saving Time Update

MODELS: MOST (see below for full description)

Number of
People
Required



KIT NUMBER **KIT DESCRIPTION**

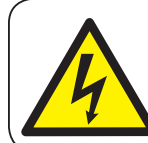
See below

See below

TOOLS REQUIRED: See below

ESTIMATED INSTALLATION TIME: <5 minutes

REASON FOR BULLETIN: Effective the 1st of July, 2007, all Royal Vendors controllers in current production are compliant with the new regulations concerning Daylight Saving Time (DST) in North America. This bulletin describes the correct procedure for updating certain controllers which are already in the market field.



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 power from vender before working in any of these areas.

ROYAL CONTROLLERS WITH 2007 DST UPDATE:

<u>Controller Type</u>	<u>RV Board Number</u>	<u>First Software Revision with DST Update</u>
RVV 5-button Programming	836167	67241-06
RVV KO	836173	67246-06
KO-GIII	836180	67131-6
KO-TDV	836126	67131-6
HVV-DD	836148	67261-01 (the old software number was 67208)
HVV-TDV	836149	67262-01 (the old software number was 67211)
Merlin IV	836182	67100-11
Merlin TDV	836183	67160-07
Merlin EZ Vender	836157	67191-03
Merlin Red Bull	836169	67237-03
Merlin Milk Merchandiser	836192	67253-03

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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INSTALLATION INSTRUCTIONS:

All of the RVV, KO, and HVV controllers use flash memory to load new software (see "VMC Board Programming Procedure," below). To load software on the Merlins, you will only need to replace the memory chip (EEPROM). In either case, after the software has been updated, you will need to reprogram prices, space-to-sales, selection depth, and other options. (**Note:** After loading the software, the controller may display "Out of Service" until the service mode is entered.)

VMC Board Programming Procedure for KO, HVV, & RVV controllers

Using the P&E Software and BDM Cable

Note: Prior to upgrading the controller software, it will be necessary to obtain the required BDM interface harness and PROG16Z Flash / EEPROM Programmer Software disk from P&E Microcomputer Systems, Inc., P.O. Box 2044, Woburn MA 01888, or on the web at <http://www.pemicro.com>.

NOTE: You should close any open applications running on your PC before beginning the programming procedure. Likewise, you should not start or run any other applications while programming a control board.

1. Make sure power to the VMC control board has been removed.
2. Make sure the BDM programming cable is exiting away from the board.
3. Apply power to the control board.
4. Start the PROG16Z software per method below. From the "Start" menu on the task bar, select "All Programs"; then as each menu appears select "P&E 68HC16 BDM Programmer"; then "PROG16Z-68HC16 Programmer."

The P&E software will open. You should see a "PROG16Z- Programmer Version 2.0.2" window. Then, almost immediately, the "PROG Connection Manager" window will pop-up. The interface and port to select depend on the type of programming cable you are using. The DB-25 parallel port style is the most common.

5. Select the interface and port setting. **Note:** If the selection you need does not appear, click the "Refresh List" or "Add LPT Port" button, and follow the on screen directions.

For DB-25 "CABLE 16/32" programmers choose:

- Interface: "CABLE 16/32, Connected via Parallel Port or BDM Lightning"
- Port: "LPT1: Parallel Port" (or other Parallel Port you may be using).

For USB "USB CPU 16/32 MULTILINK" programmers choose:

- Interface: "USB CPU16 MULTILINK (USB-ML-16)"
- Port: "USB1 : USB -ML-16/32 Rev..."

The first time you use the USB programmer it may be necessary to run the USB wizard that will start when

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you plug in the USB device.

6. Do not make any other changes to this window, and choose "Connect." The "Specify Programming Algorithm to Use!" Window will open.
7. Specify "Programming Algorithm." Select "Am29_400b_w.16P" from the "algorithms" or appropriate directory.
8. Enter a Base Address of "0" (zero) when prompted.
9. Double click "SS Specify Object File" within the "Choose Programming Function" window.
10. Select the programming file from the appropriate directory.
 - KO vender: "KO_67246_Proto.s19"
 - HVV or other non-KO: "67241_Proto.s19"
11. Double click "EM Erase Module" in the "Choose Programming Function" window.
12. Wait for the status window to indicate erasure is complete: "Module has been erased."
13. Double click "PM Program Module" in the "Choose Programming Function" window.
14. Wait for the status window to indicate that the module is "Programmed." This should take approximately 1 to 2 minutes.
15. Disconnect power from the board, and wait for chute sense LED to turn off.
16. Unplug the BDM diagnostic cable.
17. Re-apply power to the control board.
18. Verify that the door switch is open.
19. Press the service mode button and verify that "Re-Initializing" appears on the display. **Note:** *If "Re-Initializing" never appears and board seems unresponsive, remove power from the board. Then, re-apply power while holding down the service mode button. After 10 seconds, release the mode button, then press again. Verify that "Re-Initializing" appears on the display.*
20. Wait for software to completely re-initialize. (This usually takes approximately 20 - 30 seconds.)

This completes the detailed VMC board programming procedure.

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