



# SERVICE BULLETIN # 00243

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

PAGE: 1 of 2
DATE: 11-12-03
REVISION: 00

<b>SUBJECT:</b> Version 41.xx Chip Replacement	# of People Required
<b>MODELS:</b> Merlin IV with Versatile Control Board (Revision 41.xx)	

Kit Number	Kit Description
836095	Revision 41.xx Controller Chip

**TOOLS REQUIRED:** Chip Puller

**ESTIMATED INSTALLATION TIME:** <1 minute

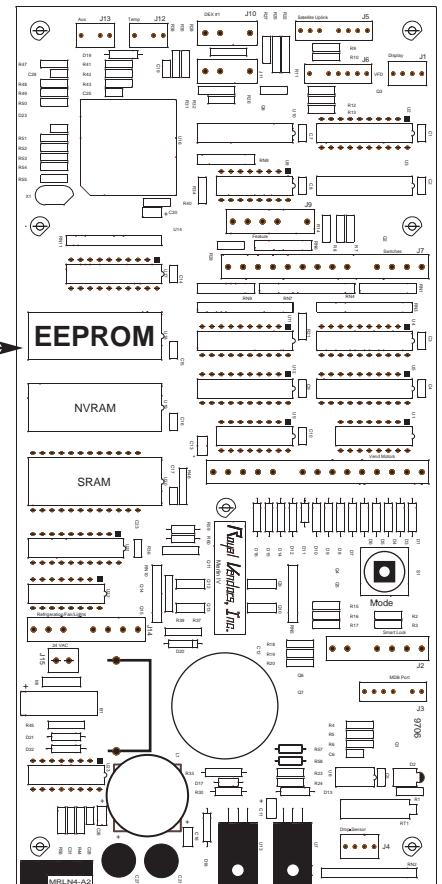
**REASON FOR BULLETIN:** This bulletin shows the correct procedure for replacing the Merlin IV Rev. 41.XX (Versatile control board) EEPROM chip.

**NOTE:** Electronic components are very sensitive to static electricity, which can damage the control board. Prior to coming into contact with the control board, you should ground yourself to the vender by way of an ESD grounding strap.

### CORRECT PROCEDURE FOR REPLACING THE EEPROM:

1. Remove power to the vender by unplugging the vender's main power cord from the AC voltage source (wall outlet).
2. Using a chip puller, remove the EEPROM from the control board. (See Figure 2.)
3. Evenly line up the legs of the new EEPROM with the slots for the chip's legs. Once they are lined up evenly, push the chip straight into the slots. Be very careful not to bend any of the chip's legs. Make sure the notched end of the chip points inward, not outward. (See Figures 3 and 4.)
4. Restore power to the vending by plugging the vender's main power cord into the AC voltage source (wall outlet).

**Figure 1:** location of EEPROM chip



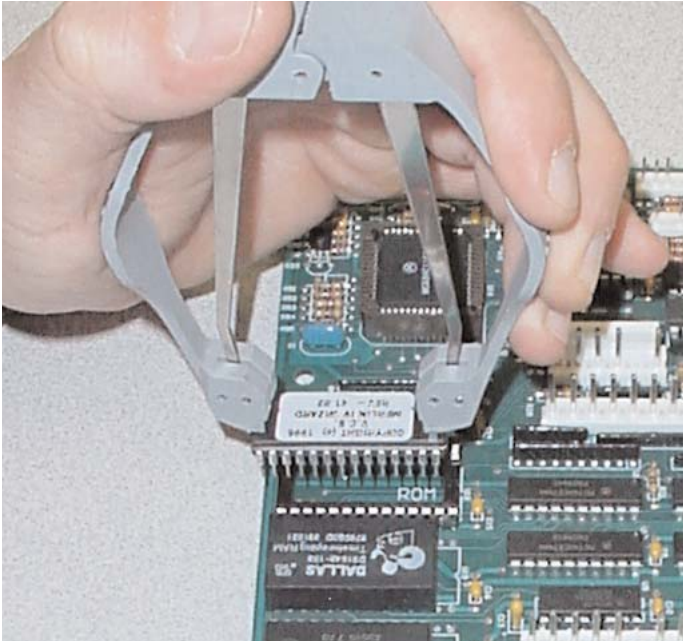
The following areas of this vender contain voltage which can cause serious injury or even death: the main power cord, supplying 110 VAC to the evaporator, EMI filter, and refrigeration system; the power line from the EMI filter to the ballast and transformer; and the ballast, which can produce upwards of 600 volts. Remove power from vender before working in any of these areas.

Merlin IV Rev. 41.XX  
control board (Versatile)

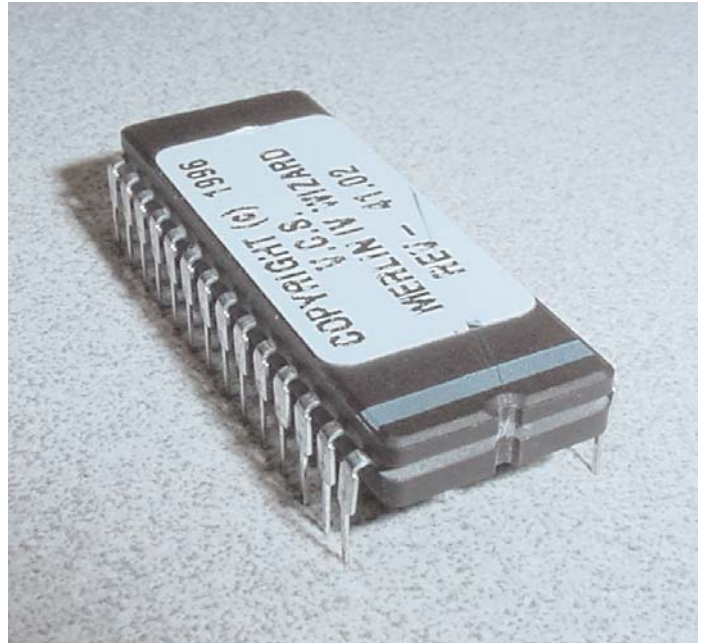
**ANY QUESTIONS???** CONTACT ROYAL VENDORS' CUSTOMER SERVICE DEPARTMENT  
**CALL TOLL FREE (800) 931-9214**

**SUBJECT:** Version 41.xx Chip Replacement

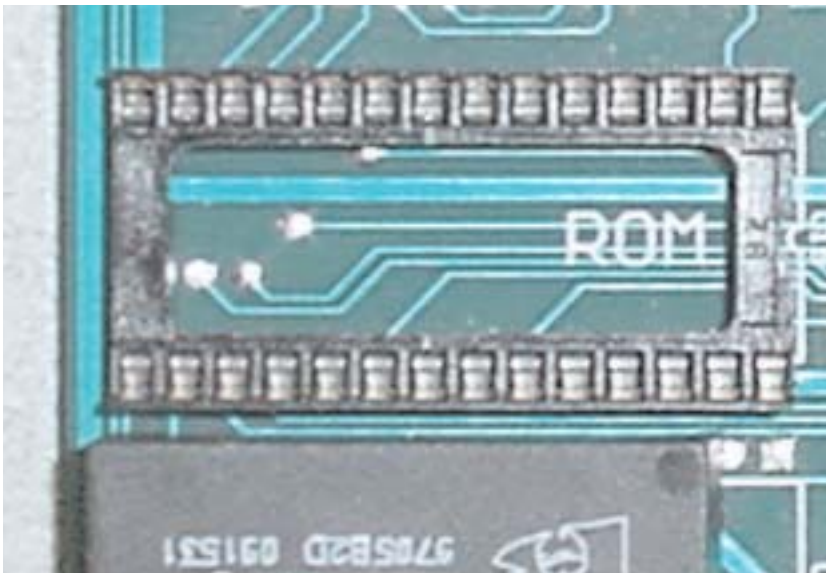
**Figure 2:** Using the chip puller, pull the EEPROM straight up and away from the control board.



**Figure 3:** Photograph of chip, showing notched end.



**Figure 4:** Photograph of open slots for EEPROM on control board. Notice the illustration on the control board of the direction of the notch in the chip.



Notched end

**Be very careful not to bend any of the chip's legs when inserting the new EEPROM.**

**ANY QUESTIONS??? CONTACT ROYAL VENDORS' CUSTOMER SERVICE DEPARTMENT  
 CALL TOLL FREE (800) 931-9214**