



## DH-485/RS-232C Interface Module Firmware Upgrade

(Cat. No. 1747-KEU)

### Installation Instructions

#### Description

Upgrading the 1747-KE module with the 1747-KEU firmware consists of removing the existing firmware PROM, inserting the replacement firmware PROM in the same socket on the mother board, and applying the FRN update label to the back of the module.

#### Tools Required

To upgrade your firmware, you will need:

- a small, blade (slot-head) screwdriver
- the replacement PROM kit with replacement PROM and label

#### Special Handling Instructions

Handle the replacement PROM and module with care:



**ATTENTION:** Keep the PROM in its foam holder until ready to use. Avoid touching the leads of the PROM so they are not bent or contaminated. Skin oil and dirt can corrode the leads, inhibiting electrical continuity.

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**ATTENTION:** Do not expose the PROM or module to surfaces or areas that may typically hold an electrostatic charge. Electrostatic charges can alter or destroy memory. Use ESD protective equipment.

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## Installation Instructions

### 1747-KEU Interface Module Firmware Upgrade

## Installation Procedure

To upgrade your firmware:

1. Remove power from the SLC 500 power supply.

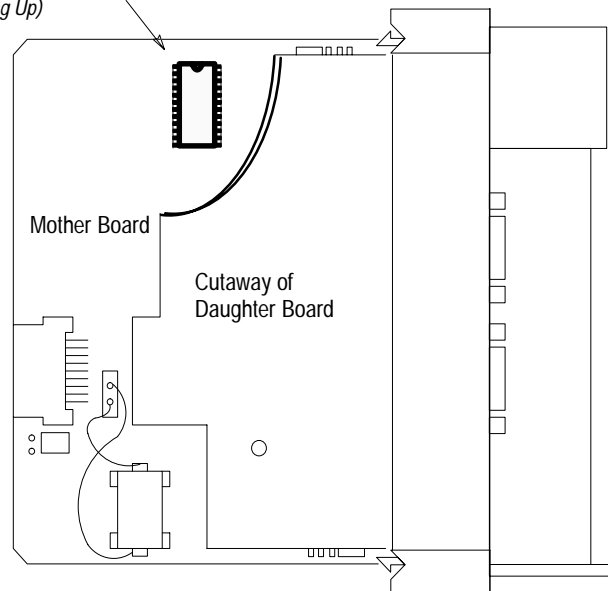


**ATTENTION:** Do not remove the 1747-KE module from the SLC 500 rack until all power dissipates from the SLC 500 power supply (approximately 10 seconds).

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2. Remove the 1747-KE module from the rack by pressing the retainer clips at both the top and bottom of the module and sliding it out.
3. Remove the existing firmware PROM by *carefully* prying the PROM from its socket with a small, blade (slot-head) screwdriver. Insert the screwdriver between the bottom of the PROM and the socket. *Gently* wiggle the blade back and forth while pushing it forward until the blade reaches the end of the PROM. Refer to the illustration below for location of the PROM.

Existing Firmware PROM on Mother Board  
(with Notch Facing Up)



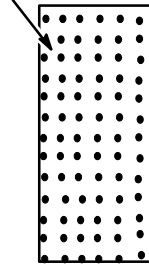
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### 1747-KEU Interface Module Firmware Upgrade

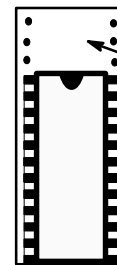
4. Remove the replacement PROM from its storage box. The replacement PROM kit contains a perforated board that doubles as both an alignment tool for the PROM leads and an insertion tool.
5. Holding on to the plastic tab, align the replacement PROM leads over the socket on the mother board. Be sure that the notch on the PROM faces up (toward the outside of the board).

Once the PROM is aligned properly, it drops slightly into the socket. If the leads are not aligned over the socket, you won't feel it drop in. Remove the PROM; insert it in the perforated board to align the leads better. Re-insert the PROM until you feel it drop into the socket.

*Use the perforated board for aligning the leads and for pushing the replacement PROM in the socket.*



Perforated Board



Replacement PROM

*Gently grab the replacement PROM by this plastic tab.*

6. Once the PROM has dropped into the socket, use the perforated board to press down on the PROM and seat it. While seating the PROM, visually check that all of the leads are in the socket.



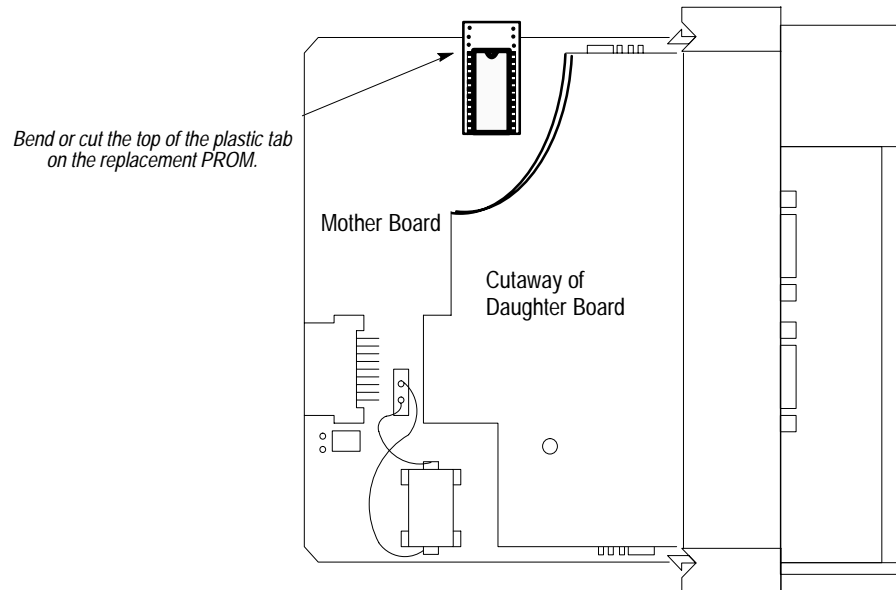
**ATTENTION:** Do not bend the daughter board upward. Damage to the board could result.

If you notice that a lead did not seat properly, go back to step 3 and remove the PROM. Re-align the leads using the perforated board, and return to step 5.

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7. Bend or cut the plastic tab off the replacement PROM so that it doesn't interfere with sliding the module in the backplane chassis.



8. Apply the the FRN upgrade label to the back of the module case.

9. Re-insert the module into the SLC 500 rack.

10. Restore power to the SLC 500 power supply.

11. Verify that the module is configured properly for the application.

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