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# PROM Replacement

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Reader PROM Replacement – PC109x

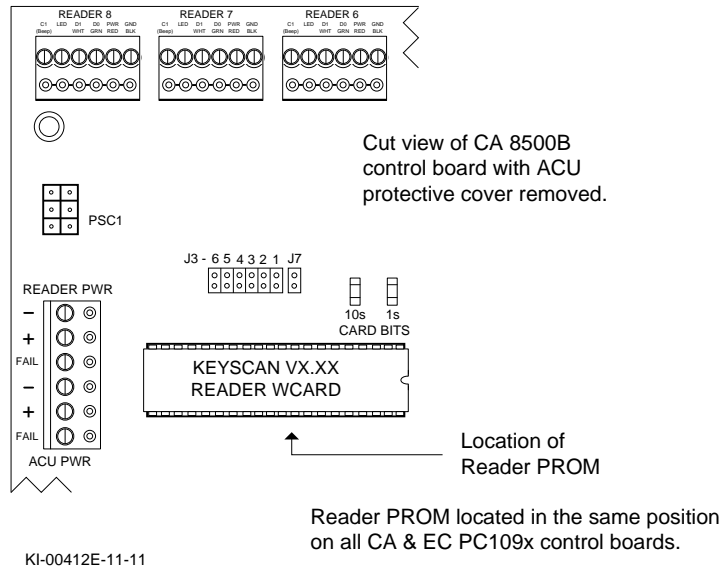
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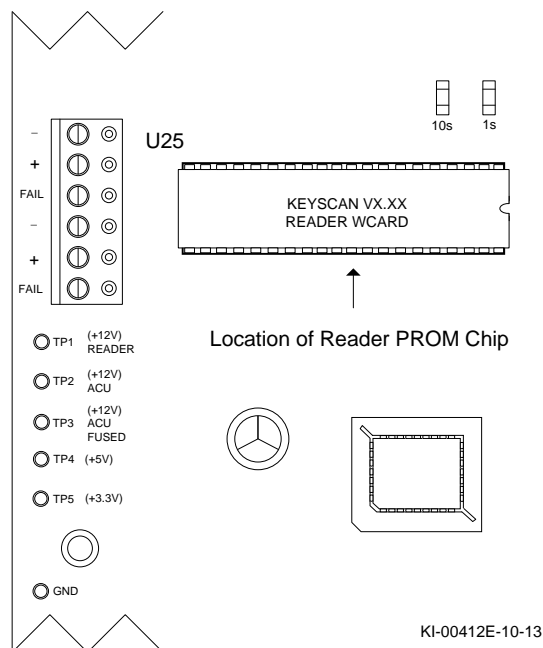
# Reader PROM Replacement

The enclosed Reader PROM chip upgrades Keyscan controllers for specified Keyscan hardware and/or software features. Remove the current Reader PROM chip at U25 and replace it with the enclosed chip. Please be sure that you have complied with the necessary controller/software compatibility requirements outlined by Keyscan at the time of ordering the replacement chip.

**Figure 1 - Reader PROM Location – PC1091 - PC1095 with Jumpers**



**Figure 2 – Reader PROM Location - PC1097 or higher with DIP Switches**



## PC1097 or Higher - Reader Format

On PC1097 or higher control boards, the reader format is set from the Client software from the Site Unit Setup screen. You require the one of the following versions depending on the Keyscan software application in use.

- System VII – version 7.0.19 or higher (updates available at [www.keyscan.ca](http://www.keyscan.ca))
- Vantage - version 8.1.18 or higher (updates available at [www.keyscanenterprise.ca](http://www.keyscanenterprise.ca))
- Aurora – all versions

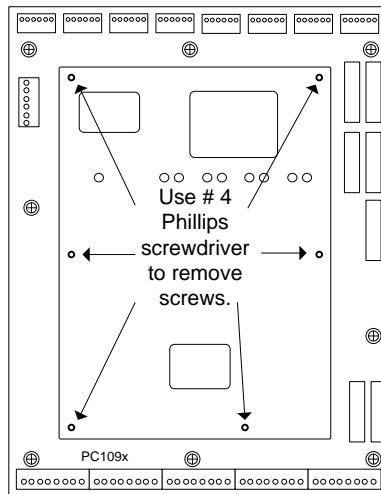
## Tools

Before you start, you require the following tools:

- # 4 Phillips screwdriver
- PROM extractor or small slot screwdriver

## Steps to Replace Reader PROM (U25)

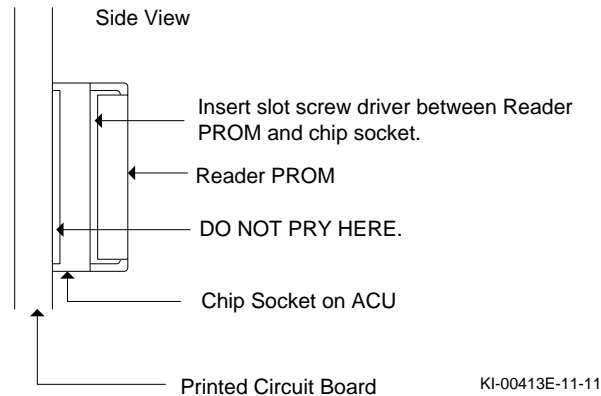
1. Open the access control unit enclosure door.
2. Touch the earth ground lug in the ACU enclosure to discharge body static.
3. Power down the CA or EC control board.
4. Using a #4 Phillips screwdriver, unfasten the six screws holding the ACU protective cover. Remove the cover and set it aside with the six screws.



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5. Locate the Reader PROM chip at U25 on the control board.

6. Carefully remove the existing Reader PROM mounted at U25 on the circuit board. If you do not have a PROM extractor, you can use a small slot screwdriver using the following technique. From the left side gently insert the screwdriver between the PROM chip and the chip socket. Partially separate the PROM chip from the chip socket. See the diagram below.



7. From the right side of the Reader PROM, repeat the preceding step.
8. Continue to lift and separate from each end of the Reader PROM until you can remove it with your fingers.
9. Before attempting to insert the replacement chip, you may have to gently press the row of pins on both sides of the new Reader PROM against a flat surface so the pins insert properly into the chip socket.
10. Ensure that the pins are aligned with the chip socket and insert the new Reader PROM, with the notched end to the right, into the chip socket at U25.
11. Re-mount the control board's protective cover.
12. If you are changing the reader format, do one of the following procedures:
  - Jumpers - set the jumpers accordingly on J3 - Reader Type. Refer to the Keyscan Technical Guide for settings
  - DIP Switches – set the reader format in the Client software
13. Re-apply power to the control board.
14. At the control board, do one of the following procedures:
  - Jumpers: place a jumper on J16 – pin H, momentarily short jumper J1 to clear the control board's memory which may take up to two minutes, and then remove the jumper on J16 – pin H
  - DIP Switches: Press S1, wait 5 seconds and then press S3 within 10 seconds to clear the control board's memory which may take up to 2 minutes
15. When you have finished changing reader PROMs and clearing memory on those control boards, return to a PC/server with a Keyscan Client module, log in and perform an upload.
  - Aurora : Status button > Status > Access Control Unit Status > Select Site > under the Upload column select Full Upload – repeat for each control unit that had an reader PROM replacement
  - System VII or Vantage : Quick Buttons menu > Selective Update > select Site > under Unit Selection either select the control unit or All Units whichever is applicable > click on Select All button > click on Upload button – repeat for each control unit that had an reader PROM replacement if you did not select All Units and have to upload multiple control units