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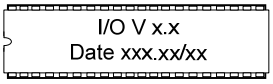
KEYSCAN ACCESS CONTROL SYSTEMS from KEYSCAN INC

I/O PROM

Replacing an I/O PROM Chip



Replace an I/O PROM Chip

This document contains instructions for replacing an I/O PROM chip on a PC109x or later control board.

Before you begin, verify the control board version. Prior to removing the old I/O PROM chip, note how it has been mounted with respect to the position of the chip's notched end and ensure you re-mount the replacement I/O PROM exactly the same.

Figure 1 – Location of PROM Chip – PC1091 PC1095 or Later Control Board Versions

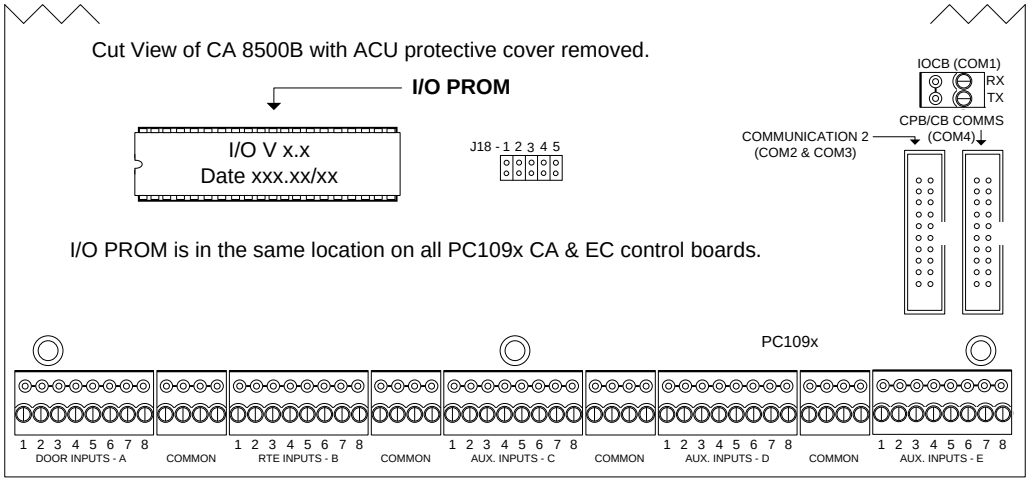


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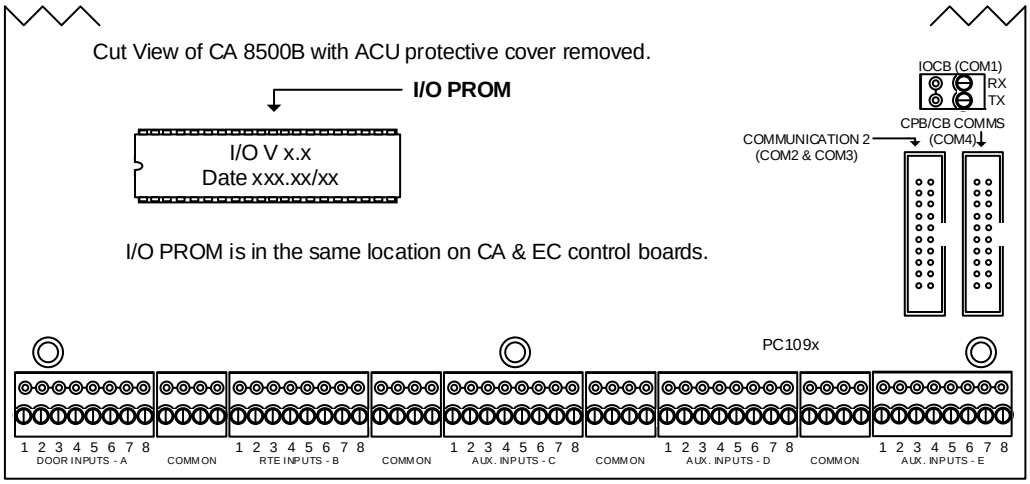
Figure 2 – Location of I/O PROM on a PC1097 or Later Control Board



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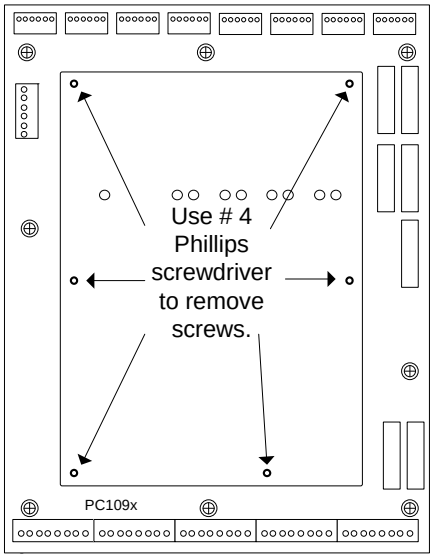
Steps to Replace an I/O PROM on a PC109x or Later Control Board

1. Touch the earth ground lug in the ACU metal enclosure to discharge body static.
2. Power down the CA or EC control board.
3. Using a #4 Phillips screwdriver, unfasten the 6 screws holding the ACU protective cover. Remove the cover and set it aside with the six screws.



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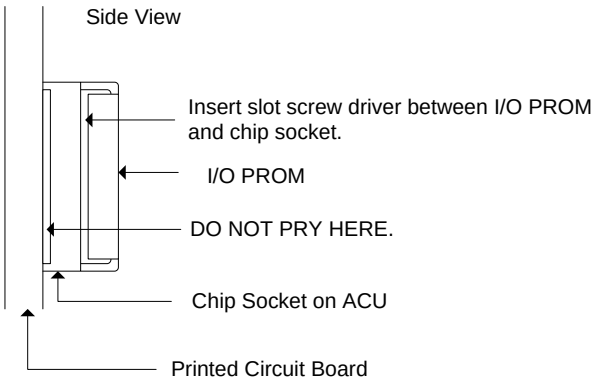
4. Carefully remove the existing I/O PROM chip mounted at U34 on the control board. If you do not have a PROM extractor, you can use a small slot screwdriver and employ the following technique. From the left side, gently insert the screwdriver between the PROM chip and the chip socket. Partially separate the PROM chip from the chip socket. See the following diagram.



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5. From the right side of the I/O PROM, repeat the preceding step.

6. Continue to lift and separate each end of the I/O PROM until you can remove it with your fingers.
7. Before attempting to insert the replacement chip, you may have to gently press the row of pins on both sides of the new I/O PROM against a flat surface so the pins can be inserted into the chip socket.
8. Ensure the pins are aligned with the chip socket and insert the new I/O PROM at position U34 on the control board. Ensure the notched end is to the left side.
9. Re-mount the ACU protective cover.
10. Re-apply power to the control board.
11. Perform a Clear Memory (Reset Factory Defaults) on the control board as outlined depending on the version:
    - PC1091 - PC1095 control boards - On the control board, place a jumper on J16 – pin H. Momentarily short jumper J1. This may take over two minutes while the control board loads the factory default settings. During the clear memory procedure, the System Status LED flashes red and the control board's piezo emits a cycle of two short beeps followed by a pause. Do not make any changes to the control board during the clear memory procedure. Then remove the jumper from J16 – pin H.
    - PC1097 or higher control boards – on the control board, press S1, wait 5 seconds. Press S3 within 10 seconds. This process may take over two minutes while the control board loads the factory default settings. During the clear memory procedure, the system status LED flashes red and the control board's piezo emits a cycle of two short beeps followed by a pause. Do not make changes to the control board during the clear memory procedure.
12. If you have additional access control units which also require replacement I/O PROMs, repeat the preceding steps for each applicable control board.
13. When you have finished changing I/O 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 I/O PROM upgrade
    - 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 I/O PROM upgrade if you did not select All Units and have to upload multiple control units