
PROM Replacement

System Firmware Upgrade - CA150

A Member of the Kaba Group



CA150 System PROM Replacement

The enclosed System PROM chip upgrades Keyscan CA150 control boards for compatibility/features with a Keyscan software application. These instructions outline how to remove the current system PROM and replace it with the System Upgrade PROM on a CA150 door control unit.

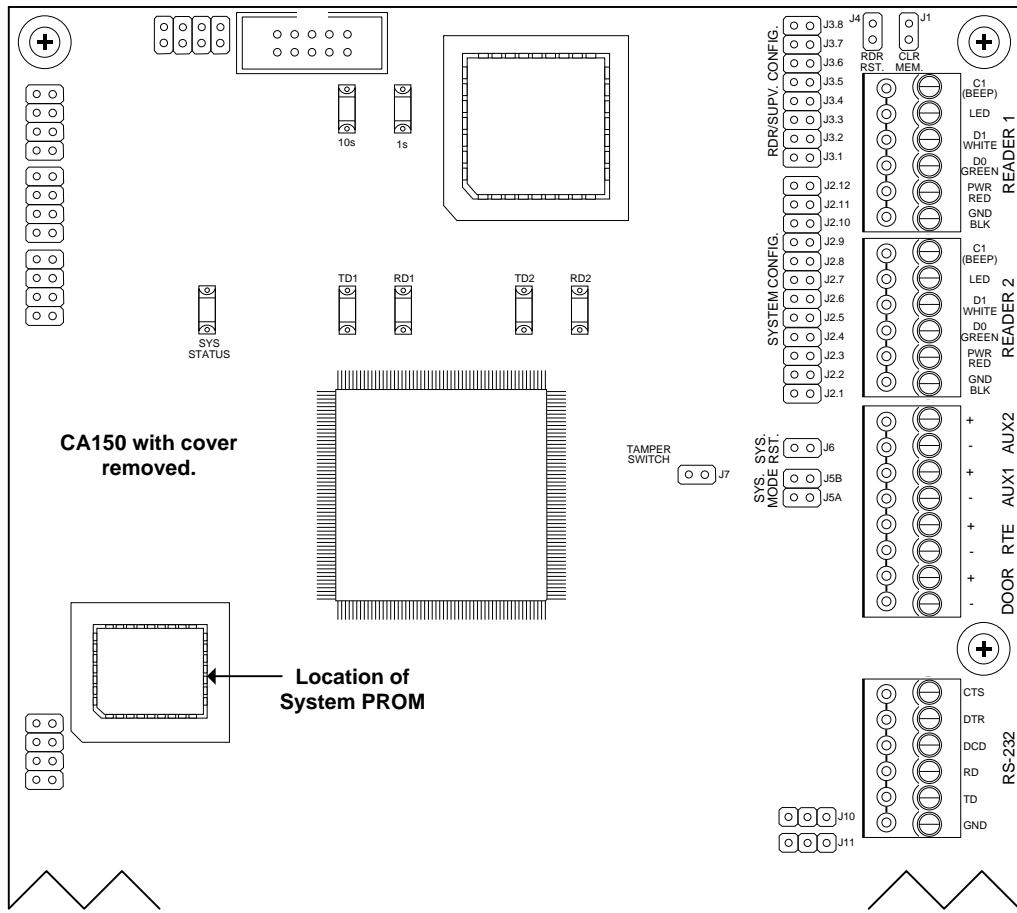
To install a System Upgrade PROM, follow the steps outlined on the next page. Figure 1 shows the location of the system PROM chip with the protective cover removed.

Revised Serial Number Format/Software Enrollment

EPROM serial numbers on control boards with 9.20 or higher have 3 alpha characters followed by 4 numeric characters – example AAC1234. Please note the following conventions for enrollment on Keyscan software:

- Aurora – enter all seven characters of the serial number - above example entered as AAC1234
- System VII – enter the last alpha and four numeric characters – above example entered as C1234
- Vantage – enter the last alpha and four numeric characters – above example entered as C1234

Figure 1 - System PROM Location



KI-00518E-01-14

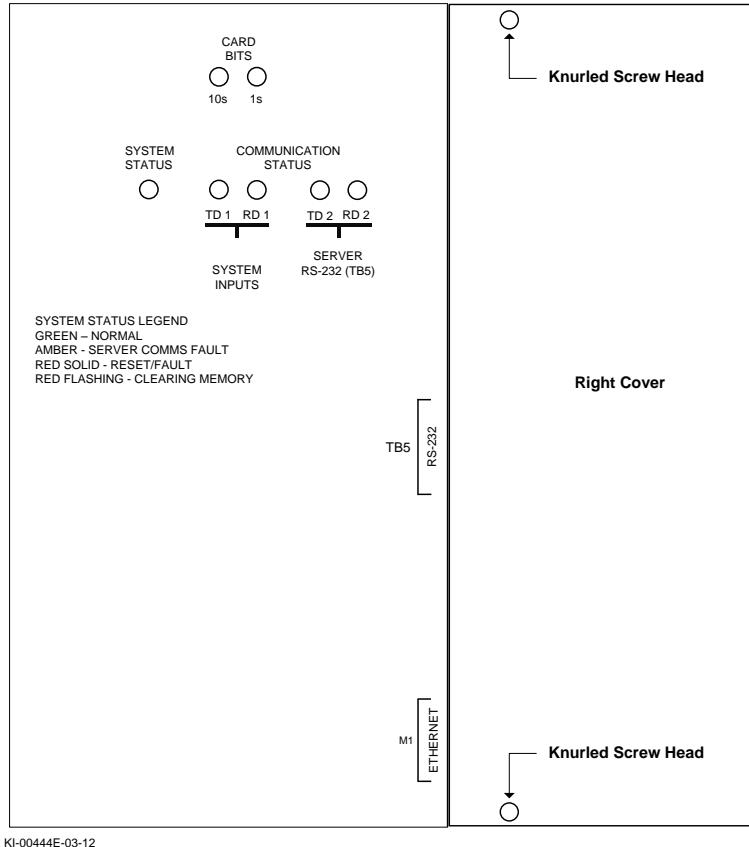
Before You Start

Before you start, you require the following tools:

- # 4 Phillips screw driver
- Extractor – a PLCC extractor is included with the System Upgrade PROM set

Steps to Replace the Reader PROM and System PROM

1. Unfasten the two (2) knurled screws and carefully remove the right side cover.



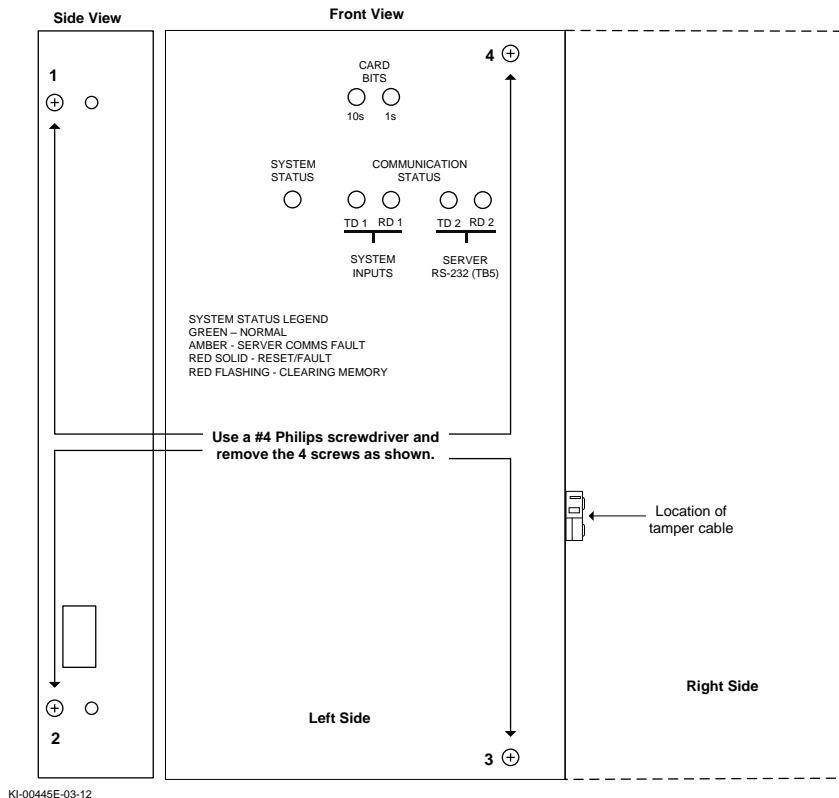
KI-00444E-03-12

2. Disconnect the CA150 control board from its power source, either the Ethernet cable if using PoE or the TB6 terminal if using a 12V power source.

Important

Before you begin step 3, be aware that the left side cover has a cable that is attached to a tamper terminal on the CA150 circuit board. When you unscrew the left-side cover, be sure to pull the left side cover away slowly and gently disconnect the cable from the J7 terminal on the circuit board as instructed.

- Using a #4 Phillips screwdriver, unfasten the four (4) screws holding the left-side protective cover as shown in the illustration below. Partially pull the cover away until you see the tamper cable. Disconnect the cable from the CA150 circuit board at the J7 terminal. Leave the tamper cable connected to the cover and set the cover aside.



- Locate the system PROM chip on the control board as shown in Figure 1.
- Note the system PROM socket has two slots positioned at 11:00 o'clock and 5:00 o'clock.
- Carefully insert the two ends of the PLCC extractor into the slots, at 11:00 o'clock and 5:00 o'clock, of the system PROM socket.
- Gently pinch the PLCC extractor until the prongs grip the chip.
- Gently lift the system PROM from the socket.
- Before inserting, ensure the replacement PROM's pins align with the socket.
- Insert the system upgrade PROM into its socket on the control board.
- Re-attach the left side cover by first re-connecting the tamper cable to the J7 terminal and then re-fastener the four screws using the #4 Phillips screw driver.
- If you are changing the control board's compatibility for another Keyscan software application, ensure that you reset the system software jumpers/DIP switches:
 - PC1151 – PC1155: Aurora - J5A = ON / J5B = ON
 - PC1151 – PC1155: System VII - J5A = OFF / J5B = OFF
 - PC1151 – PC1155: Vantage - J5A = ON / J5B = OFF
 - PC1156 or higher: Aurora - S2.9 = ON / S2.10 = ON
 - PC1156 or higher: System VII - S2.9 = OFF / S2.10 = OFF
 - PC1156 or higher: Vantage - S2.9 = ON / S2.10 = OFF

13. Re-apply power to the control board.
 - For a PoE connection, you may have to wait several seconds.
14. Momentarily short the system reset jumper SYS RST J6.
15. Do one of the following steps depending on the CA150 version:
 - PC1151 – PC1155 - Place a jumper on J2.9. Momentarily short jumper J1 to clear the control board's memory and reset the factory defaults. This may take up to two minutes. The board emits a beep and the System Status LED flashes red during this process. Then remove the jumper on J2.9.
 - PC1156 or higher - Enable DIP switch S1.9, short J1 momentarily to clear the control board's memory and reset the factory defaults. This may take up to two minutes. The board emits a beep and the System Status LED flashes red during this process. Then disable DIP switch S1.9.
16. Re-attach the right-side cover.
17. Return to a PC with a Client module, log on to the appropriate site, and perform a full 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 EPROM 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 EPROM upgrade if you did not select All Units and have to upload multiple control units