

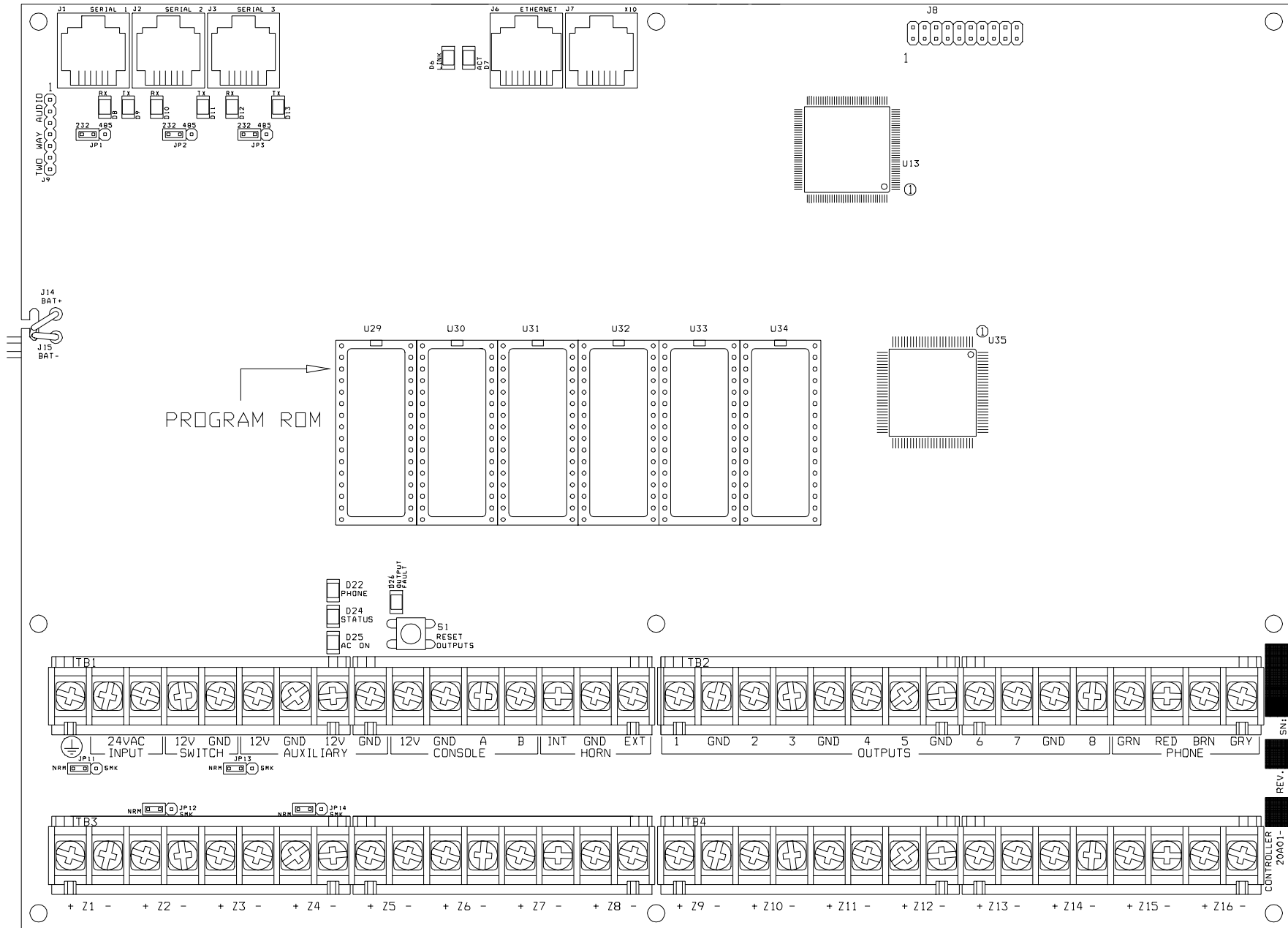


Replacing the Controller Firmware Program ROM

INSTALLATION – READ THIS COMPLETELY BEFORE STARTING

1. This procedure requires handling static sensitive chips. Be sure to ground yourself to the controller by holding the door to the enclosure, before, and periodically during the procedure. Keep your feet still to avoid generating a static charge. In areas with low humidity, buy a grounding wrist strap and connect it to the controller enclosure during the procedure.
2. In most cases, upgrading a Controller Program ROM will not alter or loose the programs, set-up, names, etc. in the controller's memory. Just in case, you should upload the system using PC Access Software, or write down all codes, zone types, names, phone numbers, misc. set up items, address, and programs.
3. Power down the controller by disconnecting the 24 VAC transformer and the battery.
4. Observe ROM chip U29. This part is labeled with a part number and version. See location on attached drawing. Be sure that the upgrade ROM has the same part number as the one in the controller! (For example, a 20A04-2 must be replaced with a 20A04-2).
5. Gently remove the ROM using a small tool to lift it out of the socket. Be very careful not to damage the circuit board under the chip and do not lift the socked from the circuit board. Also be careful not to bend the pins on the chip.
6. Insert the new ROM carefully. Be sure that the pins go in straight and don't bend under the chip.
7. Power up the controller and reconnect the battery. Wait at least 60 seconds. The STATUS LED should begin to blink steadily at 1 blink per second. If not (after 2 minutes), power down and check your work carefully.
8. Check the system to be sure that the codes, names, and programs are intact. Also check the voice address (telephone menu 8, if applicable). It may need to be re-recorded.
9. Please return old ROM chip to:

HAI
Technical Support
5725 Powell Street
Suite A
New Orleans, LA 70123



SN: [REDACTED]
 REV: [REDACTED]
 CONTROLLER 20A01-