

INSTALLING AN EPROM OR RAM

Rev F - Z

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1. Remove the external battery. (Unplug the battery harness - H1)
 2. Unplug or disconnect the internal battery (H4).
 3. Unplug or disconnect the 16.5VAC transformer.
 4. Wait 120 seconds for all power supply capacitors to discharge.
 5. Locate the EPROM or RAM chips. They are located to the left and directly under the programming keypad. The EPROM is identified as U4. Expansion RAM1 is identified as U5. Expansion RAM2 is identified as U6.

STATIC SENSITIVE PARTS - DISCHARGE YOURSELF TO GROUND

6. Touch earth ground (Terminal #1) to discharge any static electricity on yourself before touching the circuit board.
7. Remove the old EPROM and/or RAM chips from their sockets. This is accomplished using a professional-type DIP extractor or it can be removed by using a very small screwdriver. Carefully insert the blade of the screw driver or DIP extractor between the chip and its socket. With a rocking-pulling motion, work the chip loose.
8. Align the pins. As shipped to you, the chip will not fit into its socket. Ensure you are "static free". Grasp the chip at both ends and lay one row of pins on a flat surface. Gently apply pressure in a slight rocking motion until one side is perpendicular to the chip's body. Then, do the same procedure to the other side. The objective is to align all the pins so they are perpendicular to the chip's body.
9. The notch in the chip's body must be at the "TOP".
10. Line up the pins of the chip with the socket and using your fingers, gently press into place with a slight rocking motion. Sometimes a pin will bend inward under the chip and not be readily noticeable. If this happens, remove the chip and reinsert it correctly.
11. The RAM sockets will accept two widths of chips. You may receive either. Line up the pins of the RAM chip with the left most socket associated with that chip. The pins on the right side of the chip will automatically align to the proper socket.
12. Connect the 16.5VAC transformer to power up the unit and reconnect the external standby battery.
13. When installing RAM chips the backup battery must be connected to H4. The black lead from the battery goes to Terminal #3 on H4. The red lead goes to Terminal #2 on H4. Refer to the figure on the back of this page.
14. Enter your Secret Number and **CLEAR ALL MEMORY**. All user codes will be cleared and all system values will be set to default (factory standard) condition.
15. If the RAM or EPROM is installed backwards, or if it is handled improperly, it will be damaged.
16. Reprogram all codes, time schedules and system settings.