



## TECHNICAL NOTE 02-94

# PROGRAMMABLE RANS-VOICE CIRCUIT DEVICES (CHIPS)

## *INSTRUCTIONS FOR REPLACEMENT*

### GENERAL

*There are times when a programmable device must be changed in the field. This may occur when a program must be updated or a voice message requires changing. The process to change the device is an easy one requiring very few tools to accomplish. There are three programmable devices on each **RANS-Voice** circuit board. Normally any change will require replacement of only one of the chips at any given time.*

***CAUTION:** Do not remove the old programmable device until you have the new one in your possession.*

### PROCEDURE

Each of the three programmable devices are labeled with a white label indicating the function and the program for your facility. The three devices are located in the approximate right center of the circuit board and are labeled as follows: ALARM SCAN EM\_\_\_, VOICE PROG EM \_\_\_, and VOICE ROM \_\_\_ EM \_\_\_. Locate the device that you will be changing. The device will be the same as the one you have for replacement except the handwritten part of the label may be slightly different.

1. Remove power from the unit and wait two minutes before proceeding.
2. Using a PROM puller or a small screwdriver, gently remove the device from its socket. If using a small screwdriver, gently pry a little at a time on one side and then the other so the device is removed straight and the pins are not bent.
3. Be sure you are grounded or wearing an anti-static strap before handing any programmable device not

plugged into its socket or into the special anti-static shipping foam.

4. Carefully remove the replacement device from its anti-static foam pad and plug it into the empty socket, being very careful to align all the pins to their proper sockets. The replacement device pins have been used with a socket at the factory so they should easily align with the circuit board socket.
5. Once all pins have begun to seat properly in each proper socket, gently apply pressure with two fingers on the chip to firmly seat all pins into their sockets.
6. Visually check each pin to be sure each is properly seated before applying power.
7. Apply power to the unit and check full system operation in accordance with the maintenance and operations manual.

If you have any questions, please contact **CDT** immediately.