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ISDN 8510T Voice Terminal
Instructions for Installing or Replacing the EPROM
on an ADB or TMI Board

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IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment and installing this D-Kit, the following safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons.

- Read and understand all instructions.

- Follow all warnings and instructions marked on the telephone.

- To reduce the risk of electrical shock, disconnect all cords before opening the telephone to install this D-Kit.

- This telephone can be hazardous if immersed in water. To avoid the possibility of electrical shock, do not use the telephone while you are in the bathtub or shower, or when you are wet. If you accidentally drop the telephone into water, do not retrieve it until you have first unplugged the line cord from the modular wall jack. Do not reconnect the telephone until it has dried thoroughly.

- Avoid using the telephone during electrical storms in your immediate area. There is a remote risk of electric shock from lightning. Urgent calls should be brief. Even though protective measures may have been installed to limit electrical surges from entering your home or business, absolute protection from lightning is impossible.

- If you suspect a natural gas leak, report it immediately, but use a telephone away from the area in question. The telephone's electrical contacts could generate a tiny spark. While unlikely, it is possible that this spark could ignite heavy concentrations of gas.

- Never push objects of any kind into the telephone through housing slots since they may touch hazardous voltage points or short out parts that could result in a risk of electric shock. Never spill liquid of any kind on the telephone. If liquid is spilled, however, refer servicing to proper service personnel.

- Slots and openings in the housing and the back or bottom of the telephone are provided for ventilation to protect it from overheating; these openings must not be blocked or covered. The openings should never be blocked by placing the telephone on a sofa, rug, or other similar surface. This product should not be placed in a built-in installation unless proper ventilation is provided.

- The telephone should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply being used, contact a qualified service person.

- Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it.

- Do not overload the AC wall outlets and extension cords as this can result in risk of fire or electric shock.

- Before cleaning, unplug the telephone from the modular wall jack. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

- Unplug the telephone from the modular wall jack and refer servicing to qualified service personnel when these conditions exist:

  - When the power supply cord or plug is damaged or frayed.

  - If liquid has been spilled into the telephone.

  - If the telephone has been exposed to rain or water.

  - If the telephone has been dropped or the housing has been damaged.

  - If you note a distinct change in the performance of the telephone.

- If the telephone does not operate normally by following the operating instructions, adjust only those controls described in the User's Manual. Do not attempt to adjust any other controls since doing so may result in damage to the telephone and will require extensive work by a qualified technician to restore the telephone to normal operation.

SAVE THESE INSTRUCTIONS

When you see this warning symbol on the product, refer to the instructions booklet packed with the product for information before proceeding.

This product is intended for use with the ADB printed wiring board assembly (Comcode: 846704229) or the TMI printed wiring board assembly (Comcode: 847016854).

The ISDN 8510T Firmware

The following instructions will help you install a new EPROM, or replace the old EPROM, on an Asynchronous Data Board (ADB) or Telecommunications Multimedia Interface (TMI) board on an 8510T terminal. In this way, you can upgrade the terminal firmware to a later release.

Removing the 8510T Terminal from Operation

Before you remove the old EPROM, you should disconnect the cords which connect the 8510T terminal with the system. See **Figure 1** for the location of the jacks and routing channels.

1 Pick up the handset (you can leave it connected with the terminal) and lay it aside.

2 Turn the terminal over and disconnect the line cord from the Line jack and the cord of any adjunct equipment from the Adjunct jack. You can leave the cables in the routing channels.
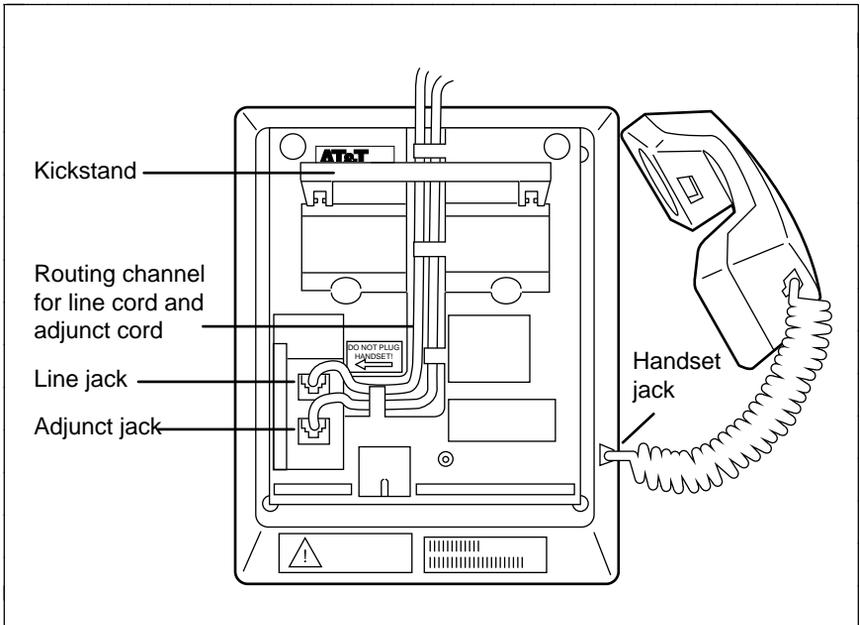

FIGURE 1 Line, Adjunct, and Handset Cord Routing for Desktop Installation

Removing the 8510T Terminal Stand

After you have disconnected the cords, follow these directions for removing the desktop stand from the bottom of the terminal.

1   Place the terminal face down on a flat surface. The Bar Code label on the bottom of the set should be toward you.

2   Remove the screw on the lower center of the stand. See **Figure 2** for the location of the screw.

3   Remove the desktop stand attached to the base of the terminal by tabs on the top and bottom of the stand. See **Figure 2**.

- Slowly rotate the bottom of the desktop stand up toward the top of the terminal.

- Then carefully lift the upper tab on the top of the stand out of the upper tab slot.
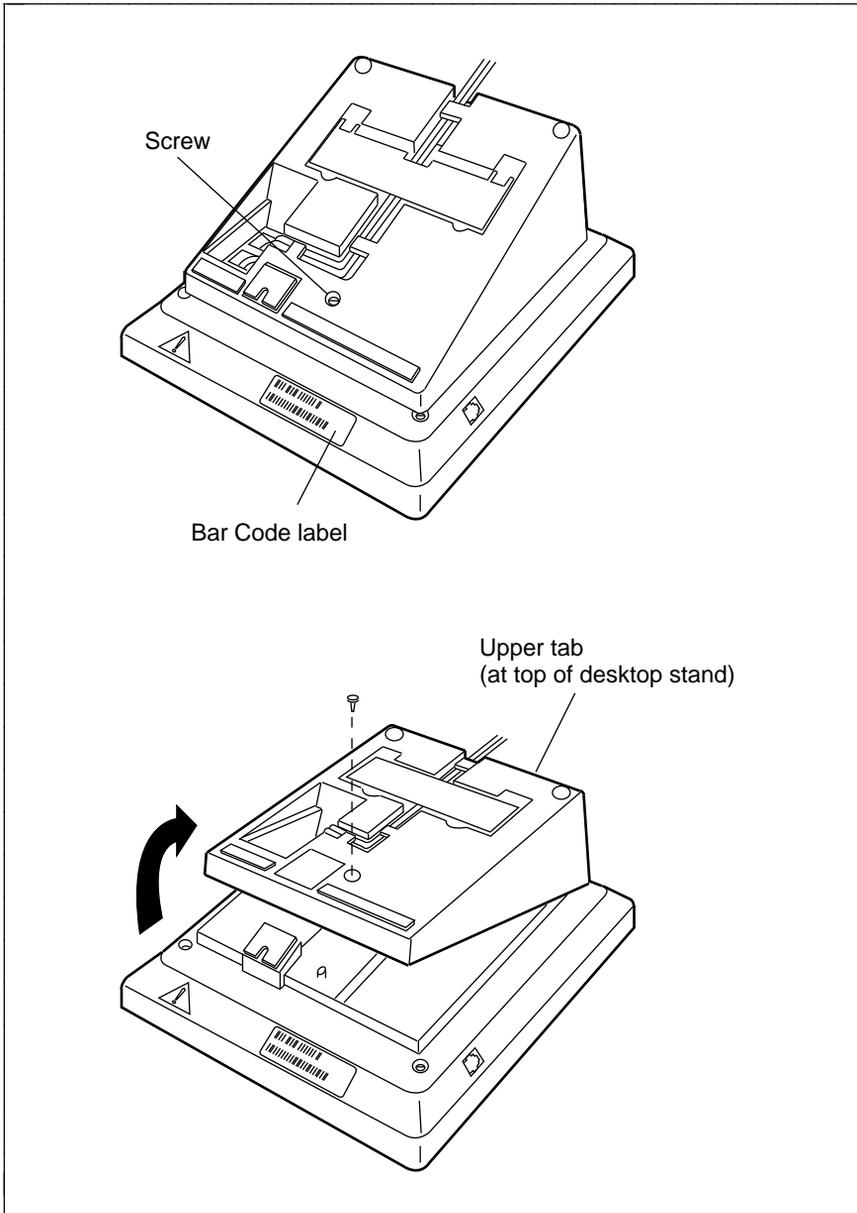
Screw

Bar Code label

Upper tab
(at top of desktop stand)

FIGURE 2   Removing the Voice Terminal Desktop Stand

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Installing the ADB and TMI Boards

The EPROM described in these directions is connected to an ADB or a TMI board in the 8510T terminal. If you have not installed this board, see the instructions that are shipped with the board, *ISDN 8510T Voice Terminal Instructions for Installing the Asynchronous Data Board (ADB) or Telephone Multimedia Interface (TMI) Board* (Comcode: 106910680; CIC Ordering Number: 555-021-754).

Removing the Old EPROM Cartridge (if necessary); Inserting the New EPROM Cartridge

Once the desktop stand has been removed from the terminal and the ADB or TMI board is in place, you can install or replace the EPROM.

1   If you are upgrading the software of your current terminal, and therefore replacing the EPROM, slowly remove the old EPROM with a screwdriver. Slide the screwdriver under the EPROM, as shown in **Figure 3**, and slowly and gently lift up on the EPROM until the EPROM works free.

   NOTE: Figure 3 shows a TMI board; however, the location of the EPROM is the same on both the ADB and the TMI boards.
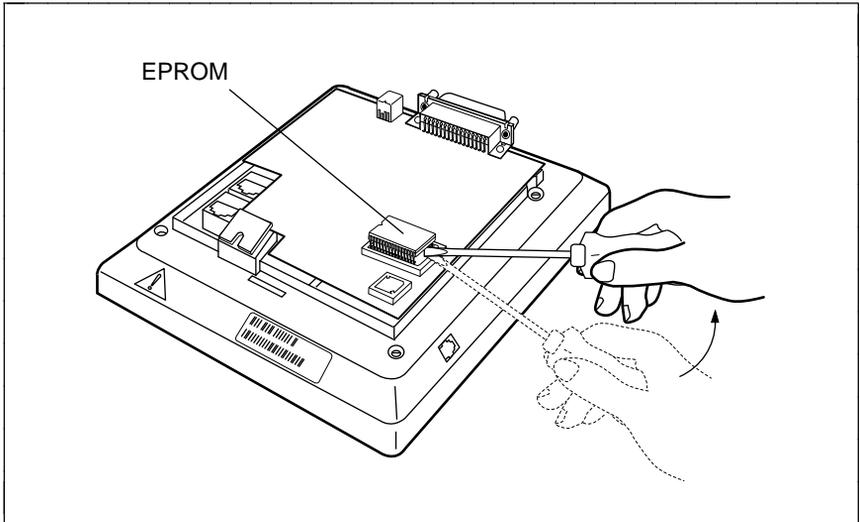

FIGURE 3 Lifting the Old EPROM From the Socket (if necessary)

2   Before you can install the new EPROM into the ADB or the TMI board, you may need to straighten out the pins on the sides of the new EPROM so that the pins are at right angles with the chip body.

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You can do this by placing the pins on a flat, non-metallic surface and pushing on the chip body until the pins are straight. See **Figure 4**. Repeat this process on the other side of the EPROM.

NOTE: You may need to rock the EPROM back and forth against the desk in order to bend the pins so that they fit the socket.
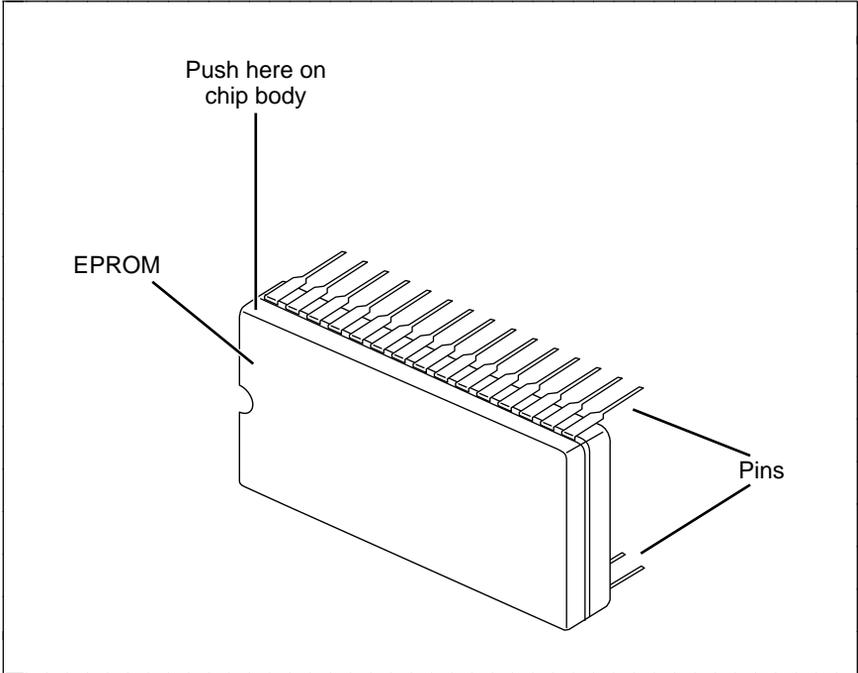

FIGURE 4 Straightening the Pins on the EPROM

3 Align the notch on the edge of the EPROM with the notch on the socket of the board. Make certain these notches are facing the same direction. You may need to repeat Step 2 until the pins line up with the socket receptacles.

4 To install the new EPROM, carefully align the pins of the EPROM with the corresponding receptacles in the EPROM socket. See **Figure 5**.

NOTE: Figure 5 shows a TMI board; however, the location of the EPROM is the same on both the ADB and the TMI boards.

5 Insert the EPROM into the socket and press the EPROM firmly into place.
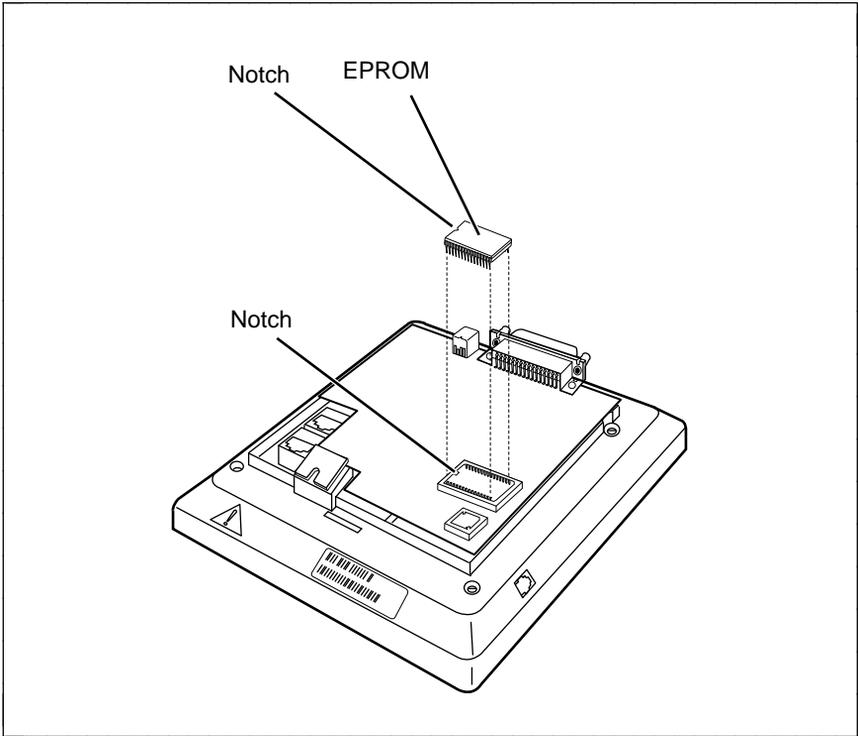
FIGURE 5 Installing the New EPROM Into the Socket

6 The EPROM D-Kit also includes a Feature Package label (which reads ''ADB/TMI FEATURE PACKAGE x.x''). Place the label on the underside of the base. See **Figure 6**.

NOTE: If there is already a Feature Package label on the base of the terminal, place the new label over the old one.
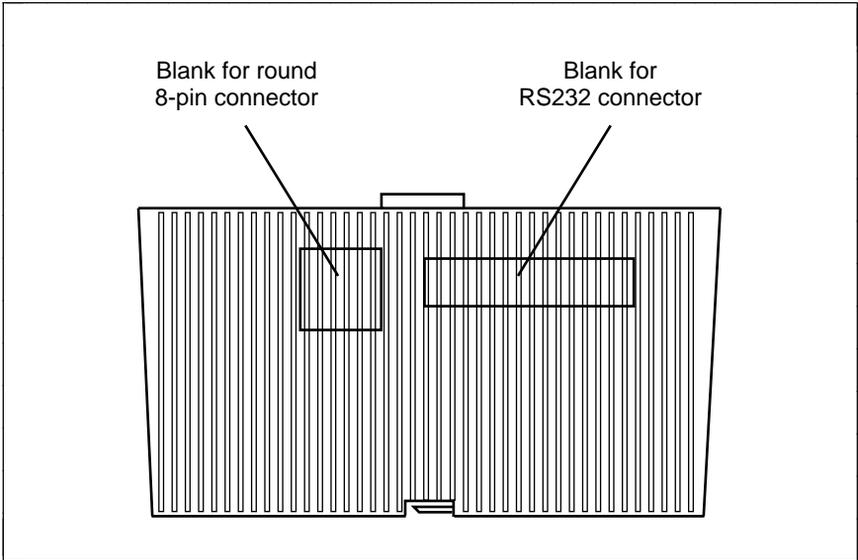
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Place
Label
Here

USE ONLY WITH
COMMUNICATION
CIRCUIT POWER
SOURCE

ADB/TMI
FEATURE PACKAGE X.X

FIGURE 6 The Label on the Base of the Voice Terminal

Removing the Blanks in the Back of the Desktop Stand (if necessary)

Before you can reinstall the desktop stand on the base of the terminal, the blanks which cover the connector holes on the rear of the stand must be removed. If you have already completed this procedure when installing the ADB or TMI board, go on to ''Reinstalling the Desktop Stand.''

If you have not removed the connector hole blanks, follow this procedure.

1 Turn the desktop stand so that you can see the blanks which cover the holes for the RS232 connector (the long rectangular blank) and the 8-pin round connector (the square blank). For the location of these blanks, see **Figure 7**.

FIGURE 7 The Connector Hole Blanks on the Rear of the 8510T Desktop Stand

2 With your thumbs, push, from the outside of the stand, on the two connector hole blanks at the same time.   As the blanks loosen, push them back and then up. The blanks that you remove should look like the ones in **Figure 8**.

3 Break the blanks in half. **Figure 8** shows the point at which the blanks should be separated. Discard the RS232 portion of the blank which covered the RS232 connector hole.
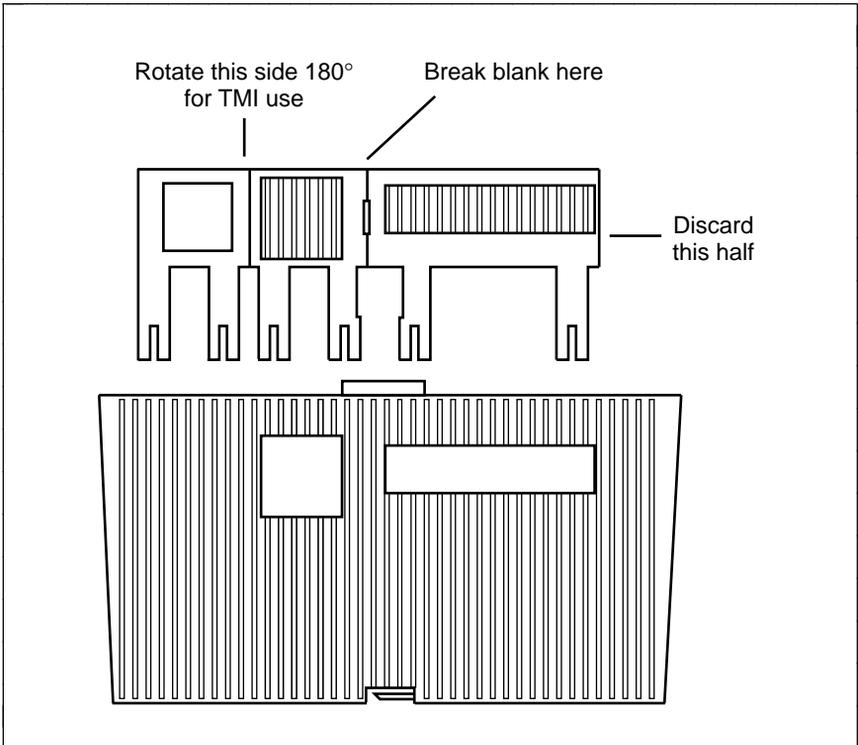
FIGURE 8 Separating the Connector Hole Blanks

4   Do the following with the remaining blank (the one that covered the 8-pin round connector):

- If you have installed an ADB, replace the square blank into the 8-pin round connector hole, so that the hole is covered again.

- If you have installed a TMI board, rotate the blank 180 degrees so that the connector hole cover is now on the left and the part of the blank with the square connector opening is now on the right. See **Figure 8** for a drawing of the 8-pin connector blank. Place the blank back in the hole so that there is an opening through which the 8-pin round connector will protrude.

Installing the EMI Shield in the Stand

Make certain that the black EMI shield has been screwed into the stand. If it has not, see the instructions that are shipped with the ADB and the TMI board, the "ISDN 8510T Voice Terminal Instructions for Installing the Asynchronous Data Board (ADB) or Telephone Nultimedia Interface (TMI) Board."

Reinstalling the Desktop Stand

1   Carefully replace the desktop stand by placing the upper desktop stand tab in the terminal slot at the top of the terminal. *Be sure that the RS232 connector shows through the long rectangular connector opening. If you have installed a TMI board, be sure that the 8-pin round connector shows through the square connector opening.* See **Figure 9**.

2   Slowly lower the desktop stand until the tab at the bottom of the desktop stand fits into the slot on the bottom part of the terminal.

3   Replace the screw in the hole from which you removed it. See **Figure 2**.

   Figure 9 shows the rear of the terminal with the ADB in place and the TMI board in place.
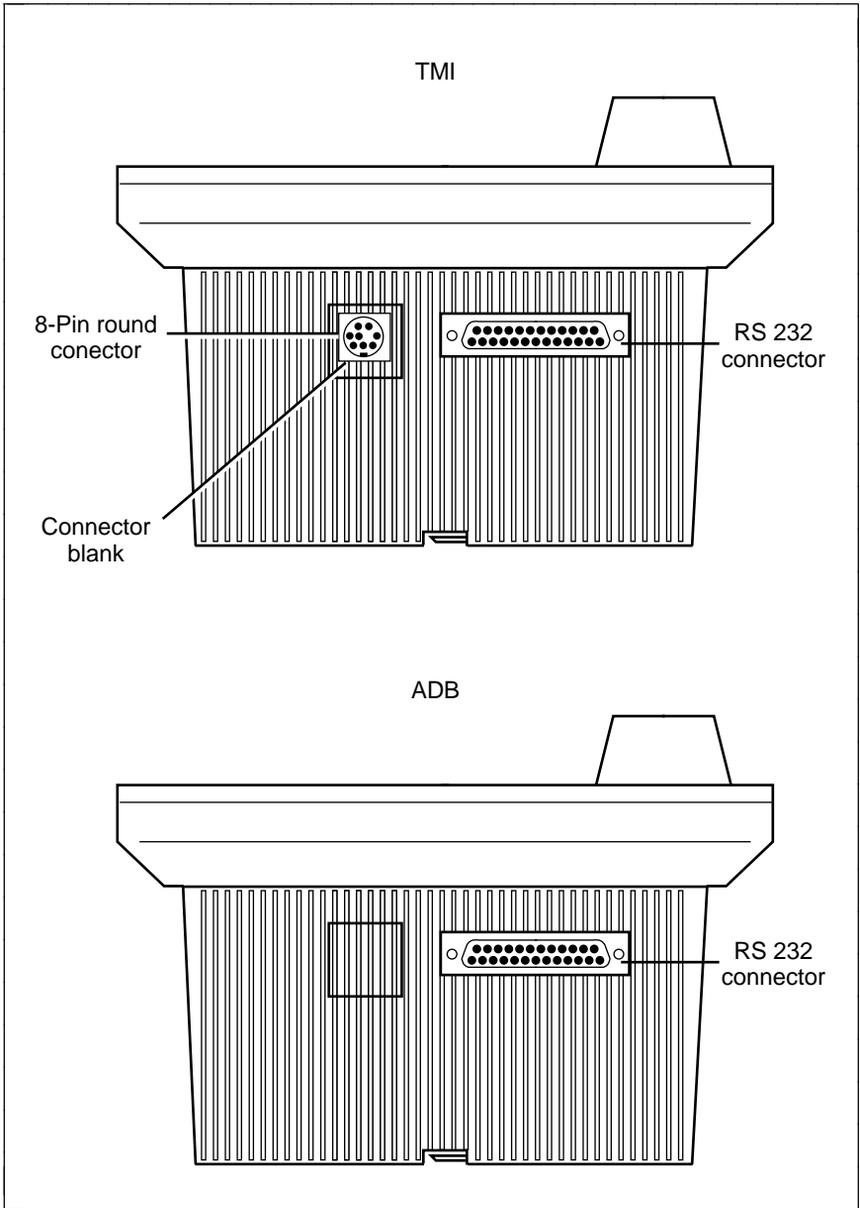
TMI

8-Pin round
conector

Connector
blank

RS 232
connector

ADB

RS 232
connector

FIGURE 9 The Rear of the Voice Terminal with the ADB or TMI Board in Place

Connecting the 8510T to the System

Next, reconnect the cords of the 8510T terminal. See **Figure 1** for the location of the jacks.

1 Plug in the line cord into the Line jack, and plug in the adjunct equipment cord into the Adjunct jack, if necessary.

2 Turn the terminal right side up, with the front facing you.

3 Decide whether you want the kickstand up, lifted from the desktop stand, or whether you want the kickstand down, level with the desktop stand. Check which of these kickstand adjustments allows you the best viewing angle of the display.

4 Snap the free end of the line cord into the wall jack. Lift the handset and listen for the dial tone.

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