



**ISDN 8510T Voice Terminal  
Instructions for Installing the  
Asynchronous Data Board (ADB) or  
Telephone Multimedia Interface (TMI) Board**

**COMCODE 106910680  
555-021-754  
Issue 1, February 1993**

# 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 8510T ISDN-type telephone set only.

### CAUTION

**Installation of this D-Kit will reset all user-stored information to its factory default value. This means that all directory entries and data programming will be completely erased.**

**Therefore, all user-stored information should be recorded on paper prior to installation of this D-Kit and then re-entered after the installation.**

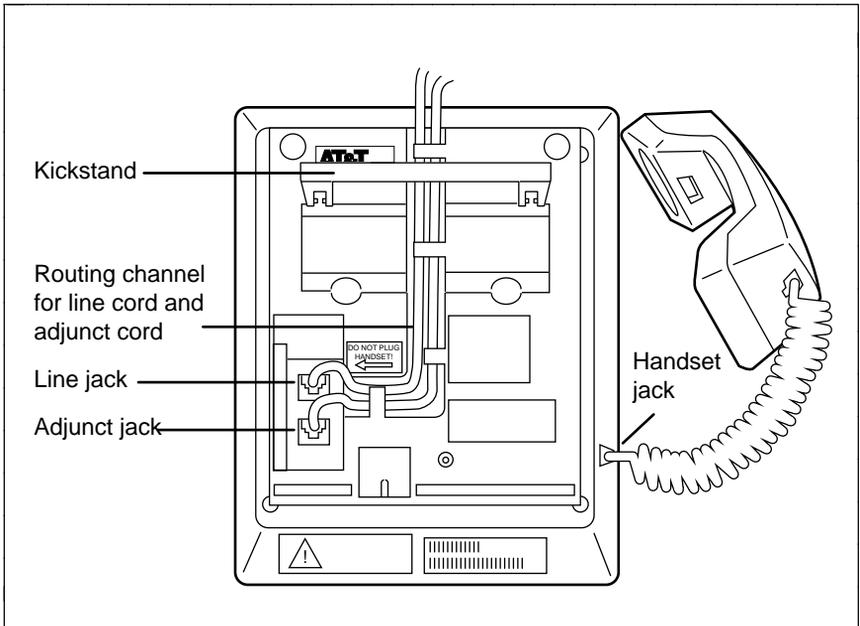
## Introduction

The following instructions will help you install the ADB (Asynchronous Data Board) or the TMI (Telephone Multimedia Interface) board in the 8510T voice terminal.

## Removing the Voice Terminal from Operation

If the voice terminal is in operation, you must disconnect the line and adjunct cords before you can install either the ADB or the TMI board. See **Figure 1** for the location of the jacks, cords and routing channels.

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

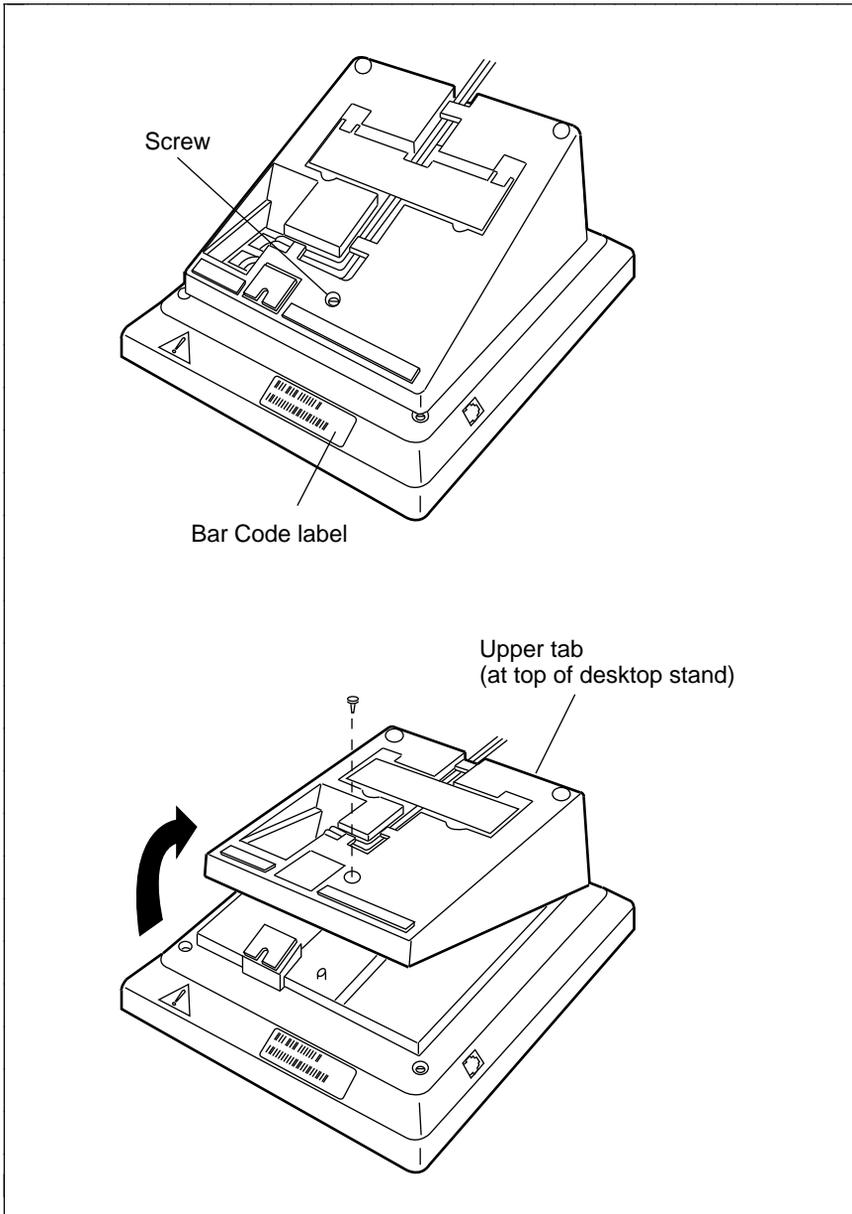


**FIGURE 1** Line, Adjunct, and Handset Cord Routing for Desktop Installation

## Removing the Voice Terminal Stand

Before you can remove the EPROM board and install the ADB or the TMI board, you must remove the voice terminal desktop stand from the bottom of the voice terminal. To remove the stand, follow these directions.

- 1 Place the voice 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 voice 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 voice terminal.
  - Then carefully lift the upper tab on the top of the stand out of the upper tab slot.

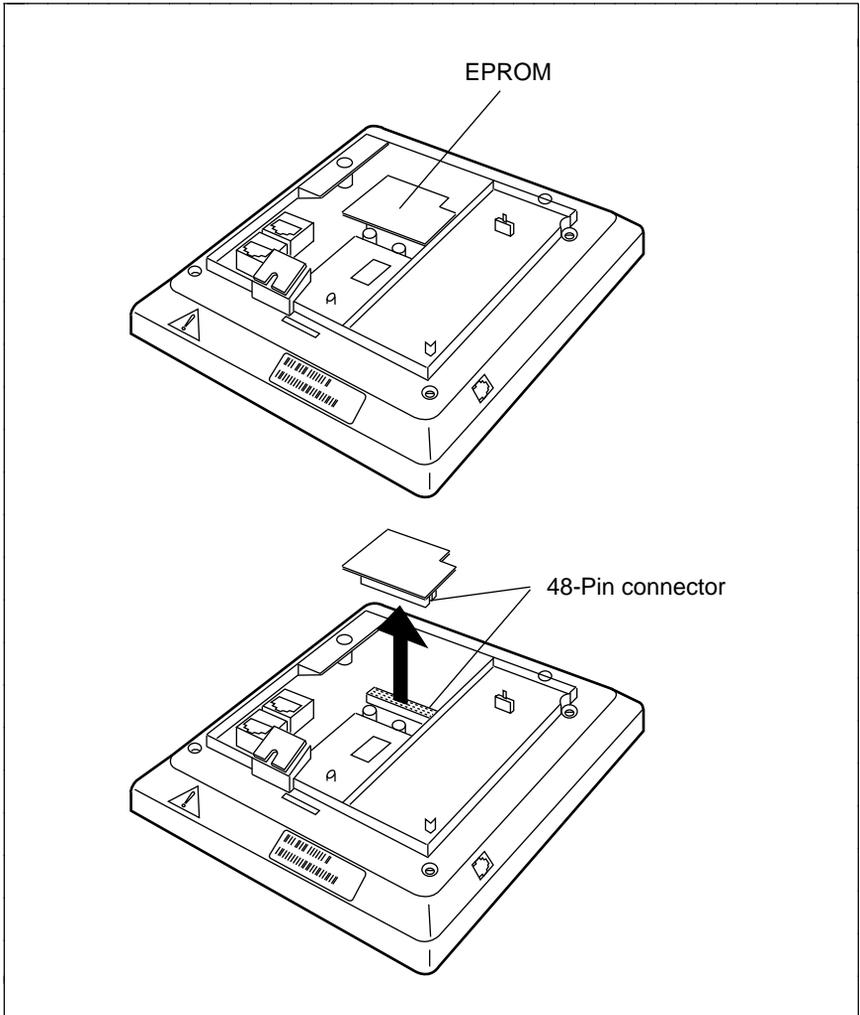


**FIGURE 2** Removing the Voice Terminal Desktop Stand

## Removing the EPROM from the Voice Terminal

The EPROM board is located at the top center of the base of the voice terminal. See **Figure 3** for the location of this board. Use the following directions to remove the present EPROM board.

- 1 Take the EPROM board between your thumb and forefinger and pull up on the board.



**FIGURE 3** Removing the EPROM from the 8510T Voice Terminal

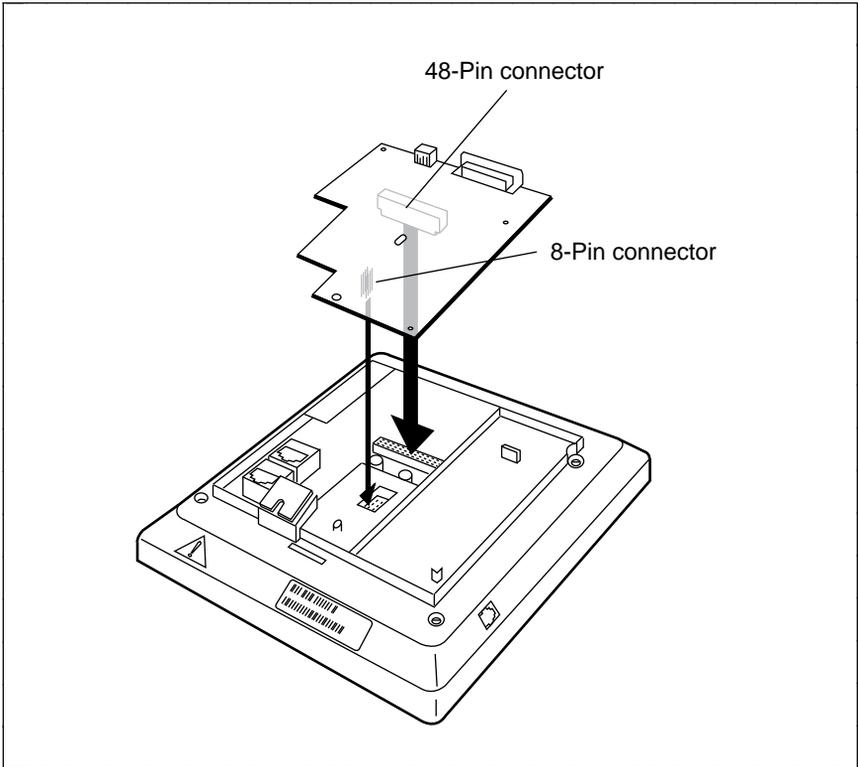
## Installing the ADB or the TMI Board

Once you have removed the EPROM from the bottom of the voice terminal, you can install the ADB or the TMI board.

- 1 Orient the board as shown in **Figure 4**. Line up the 48-pin connectors on the circuit board of the voice terminal and on the ADB or the TMI board. Line up the 8-pin connector (4 rows of 2 pins) on the bottom of the voice terminal with the 8-pin connector on the ADB or the TMI board.

**NOTE:** As you insert the board, it may be easier to slant the board toward you and connect the 8-pin connectors first and *then* connect the 48-pin connectors.

- 2 Slowly lower the board until the two 8-pin connectors and the two 48-pin connectors fit together.
- 3 Push down on the board until it is secure. Make sure that the board is firmly seated.
- 4 If an EPROM is needed for the board (the new EPROM is in a separate D-Kit), see “ISDN 8510T Voice Terminal Instructions for Installing or Replacing the EPROM on an ADB or TMI Board,” shipped with each EPROM D-Kit.

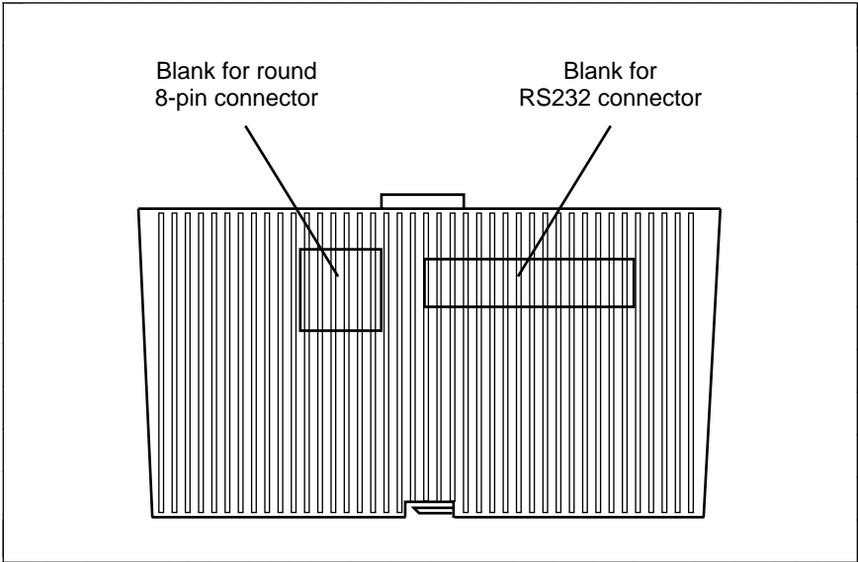


**FIGURE 4** Connecting the ADB or TMI Board on the 8510T Voice Terminal

### **Removing the Blanks in the Back of the Desktop Stand**

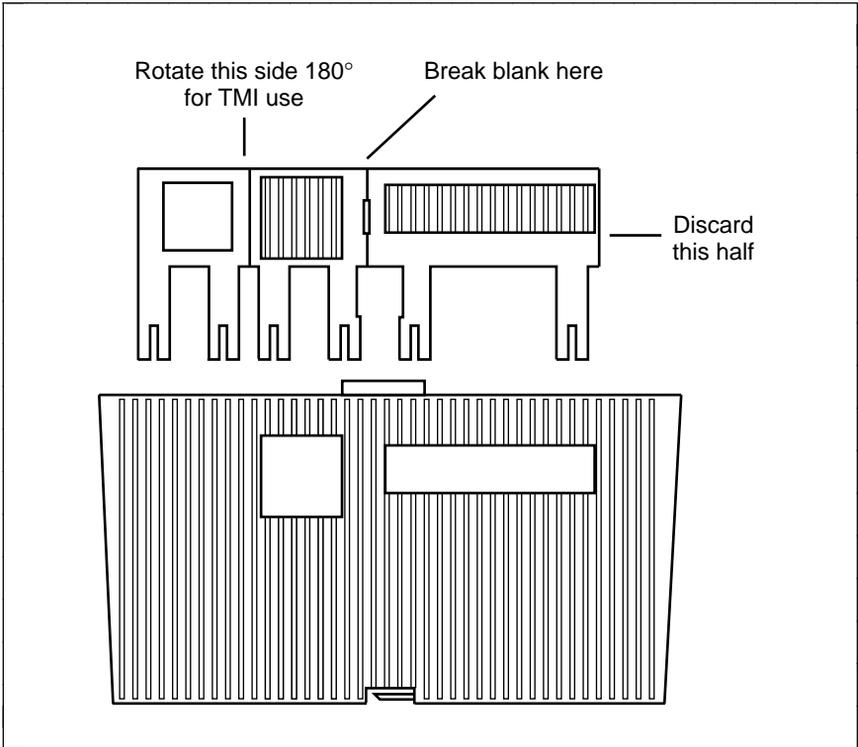
Before you can reinstall the desktop stand on the base of the voice terminal, you must remove the blanks which cover the connector holes on the rear of the stand.

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 5**.



**FIGURE 5** The Connector Hole Blanks on the Rear of the 8510T Desktop Stand

- 1 Locate the blanks which cover the two connector holes.
- 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 6**.
- 3 Break the blanks in half. **Figure 6** shows the point at which the blanks should be separated. Discard the RS232 portion of the blank which covered the RS232 connector hole.



**FIGURE 6 Separating the Connector Hole Blanks**

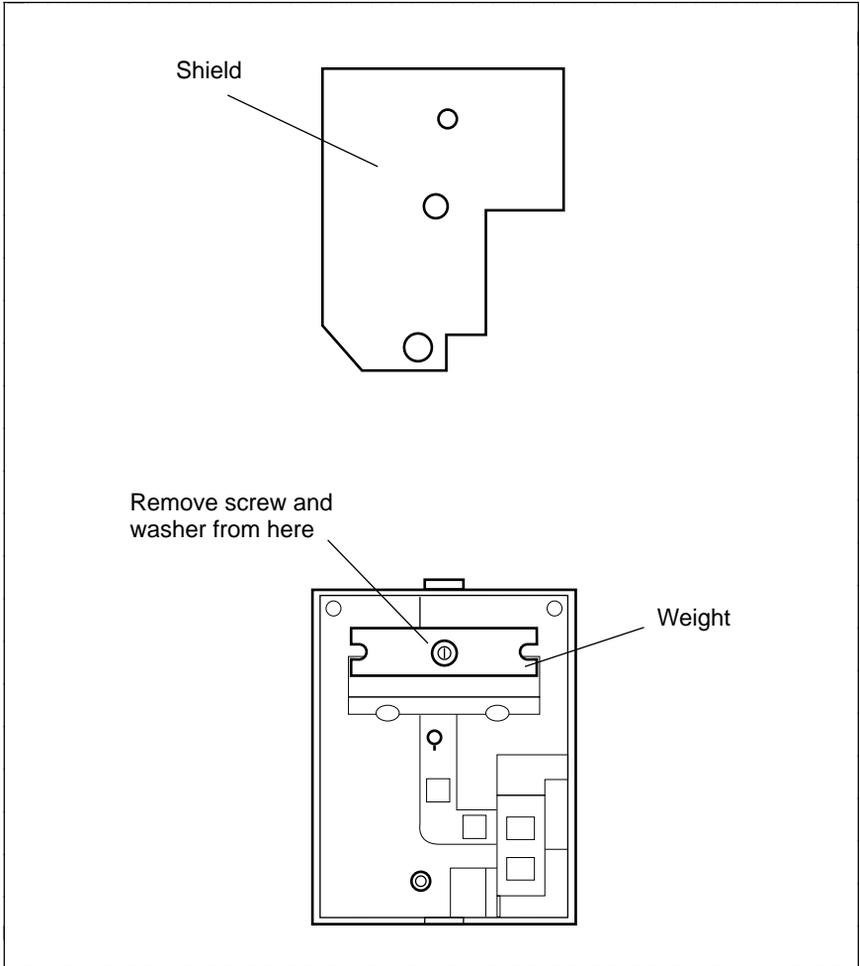
- 4 Do the following with the remaining blank (the one that covered the 8-pin round connector):
  - If you have installed an ADB, replace the square blank into the 8-pin round connector hole, so that the hole is covered again.
  - If you have installed a TMI board, rotate the blank 180 degrees so that 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 6** 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**

Next, install the black EMI shield in the desktop stand. See **Figure 7**.

- 1 Remove the screw and washer from the gold metallic weight, leaving the weight in place in the stand.

- 2 Orient the EMI shield, as shown in **Figure 7**, and then place the shield in the stand. The shield should rest on the weight at its top and on the bottom post. The post in the stand should protrude through the shield but not support it.
- 3 Replace the screw and washer in its original location so that the shield is held securely in place.

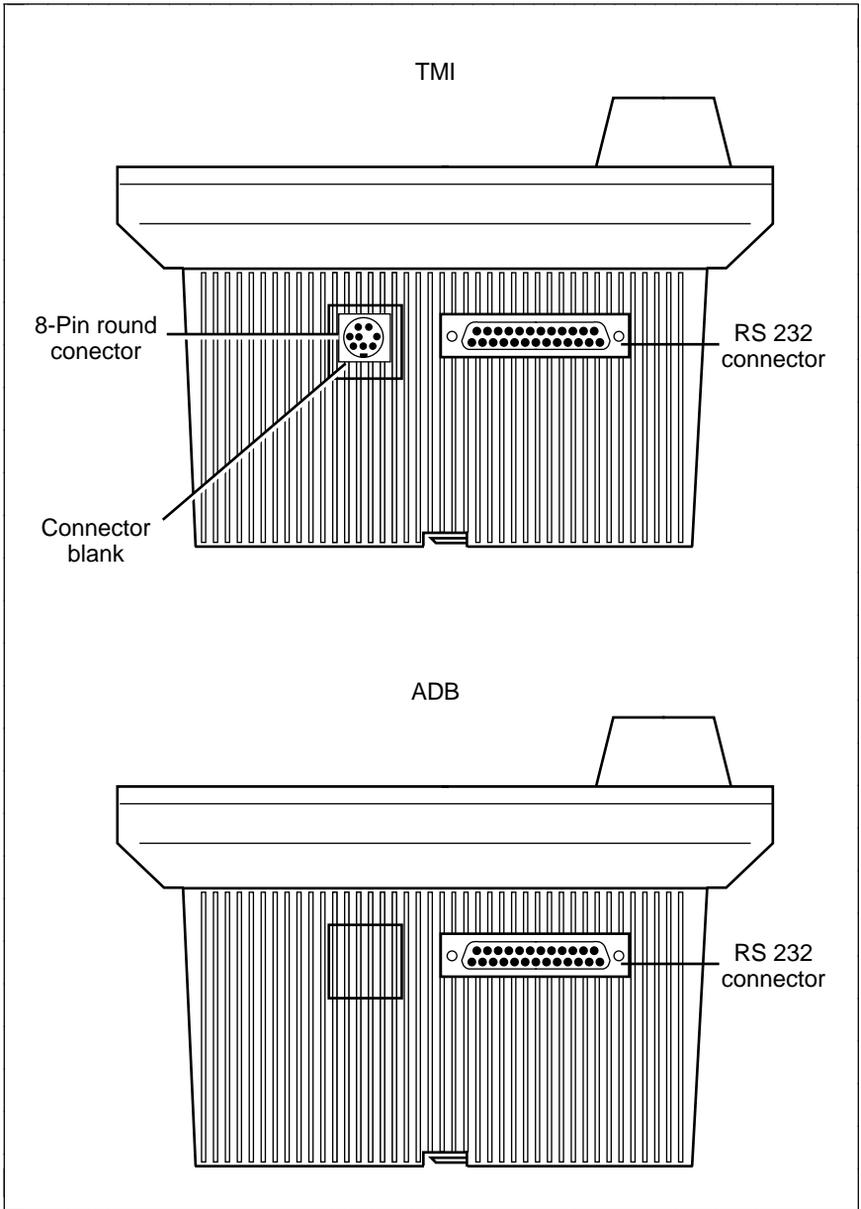


**FIGURE 7** Installing the EMI Shield in the Stand

## Reinstalling the Desktop Stand

- 1 Carefully replace the desktop stand by placing the upper desktop stand tab in the voice terminal slot at the top of the voice 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 8**.*
- 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 voice terminal.
- 3 Replace the screw in the hole from which you removed it. See **Figure 2**.

**Figure 8** shows the rear of the voice terminal with the ADB in place and the TMI board in place.



**FIGURE 8 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 voice 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 voice 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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