CHAPTER 3

Installing the Router

This chapter describes the tasks you must perform to install your router.

Note If you are planning to mount your router in a rack with the optional rack-mount kit, do so prior to following the procedures in this chapter. Instructions for mounting in a rack are included with the rack-mount kit.

Making External Connections to the Router

To set up your router, you must make connections to the console port, your networks, and to the power supply. Follow the procedures in the following sections:

- Making Console Port Connections
- Making Network Connections
- Making Final Connections

Warning Never operate the router unless the unit is completely closed. This ensures both adequate cooling and your safety.

Making Console Port Connections

To prepare for initial startup and configuration, you must attach an RS-232 cable from an ASCII terminal to the router console port, and you must attach the power cable.

Follow these steps to connect your router's console port to a terminal:

Step 1 Ensure that your site meets the site preparation requirements described in the section "Preparing for Installation" in Chapter 2.

Step 2 If you have not already done so, unpack your router referring to the section "Inspecting the Router" in Chapter 2.

Step 3 Attach your terminal to the router's console port, which is a RS-232 DB-25 connector, with a console cable leading from the router to your terminal's connector.

Note Flow control is not possible on the console port; however, you can specify padding for output characters with the EXEC command **terminal padding**, which sets character padding on the current terminal line. For details on specifying padding, refer to Chapter 4, "Command Summary."

Making Network Connections

Attach your network interface cables (Ethernet, Token Ring, or serial) to the appropriate connector on the router.

Making Token Ring Connections

Follow these steps to make your Token Ring connections:

Step 1 Attach the 9-pin D-type connector of your Token Ring cable to the router connector labeled *Token Ring*.

Step 2 Attach the IEEE 802.5 connector to your media attachment unit (MAU). (See Figure 3-1.)

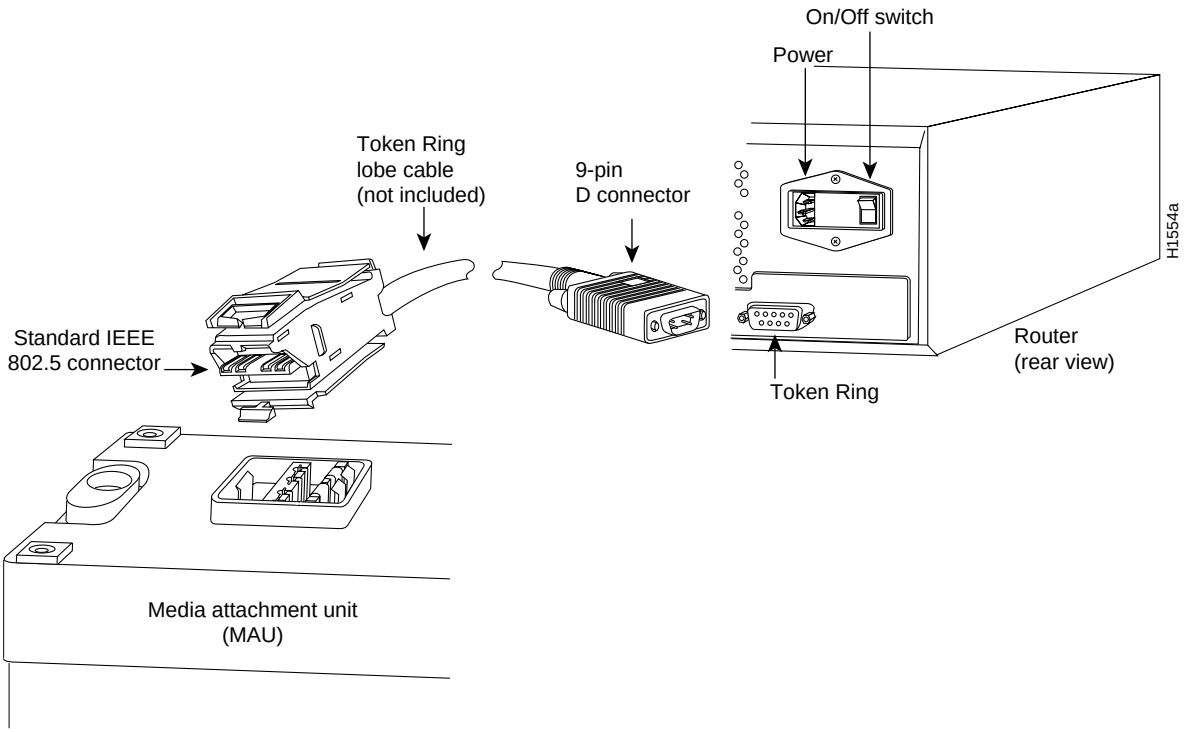

Figure 3-1 Router Token Ring Cable Connections

Making Ethernet AUI Connections

Follow these steps to make your Ethernet attachment unit interface (AUI) connections:

Step 1 Attach the Ethernet AUI transition cable with screws to the 15-pin D-type router connector labeled *Ethernet*. (See Figure 3-2.)

Step 2 Attach the slide-latch connector of this cable to your transceiver or hub. (See Figure 3-2.)

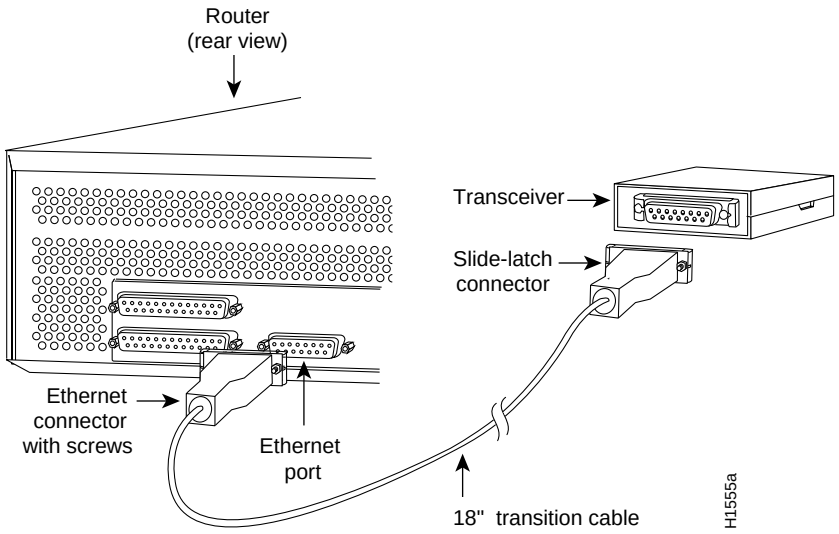

Figure 3-2 Router Ethernet Transition Cable Connections

Making Serial Connections

The serial connector on the router end of the cable is the same regardless of the type of serial interface (V.35, RS-232, RS-449, EIA-530, or X.21) on the modem or CSU/DSU. Use the specific serial transition cable for your modem or CSU/DSU connector type.

Note If the system's serial port is labeled with *V2* (see Figure 2-2 and Figure 2-3 for the location), then for optimum performance, use the version of the cable with the part number ending in -02.

Follow these steps to make your serial connections:

Step 1 Attach the 50-pin end of each serial transition cable to the synchronous serial port of the router. (See Figure 3-3.)

Step 2 Attach the V.35, RS-232, RS-449, EIA-530, or X.21 end of the cable to the channel service unit/data service unit (CSU/DSU) or modem. (See Figure 3-3.)

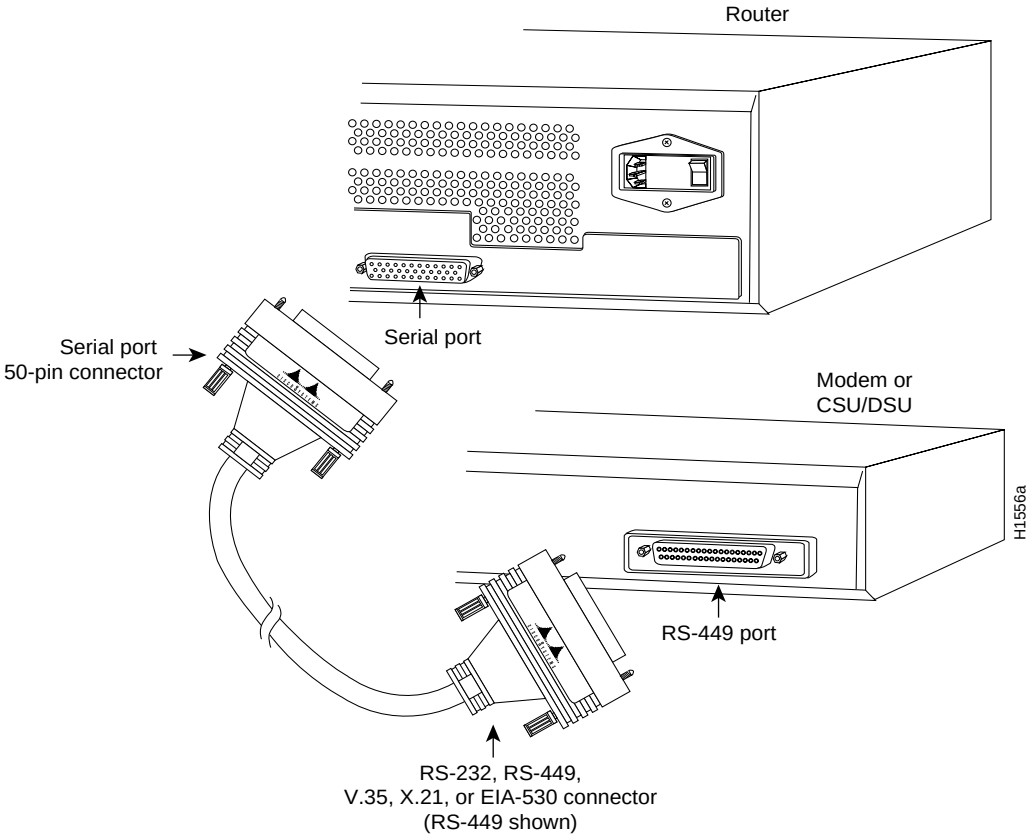

Figure 3-3 Router Serial Cable Connections

Making Final Connections

Follow these steps to make your final connections:

Step 1 Plug the router power cord into a 3-terminal, single-phase power source that provides power within the range of 90 to 264 VAC at 50 to 60 Hz.

Step 2 Turn ON the router power switch.

Step 3 Check the OK light located on the left side of the router front panel to confirm that it is on after a few seconds delay. Another indication that the unit is powered on is the sound of the fan running.

Step 4 Refer to Chapter 4, "Command Summary," for configuration commands.

Step 5 If your router does not perform as expected, refer to Chapter 5, "Troubleshooting the Router Hardware Configuration," for troubleshooting tips.

Note You can establish your router software configuration with the **setup** command facility or the **configuration** command, which are described in Chapter 4, "Command Summary."
