



**COMSPHERE 3820Plus Modems**  
**Model 3982-A1-401**  
**Installation Instructions**  
Document Number 3982-A2-GK40-10

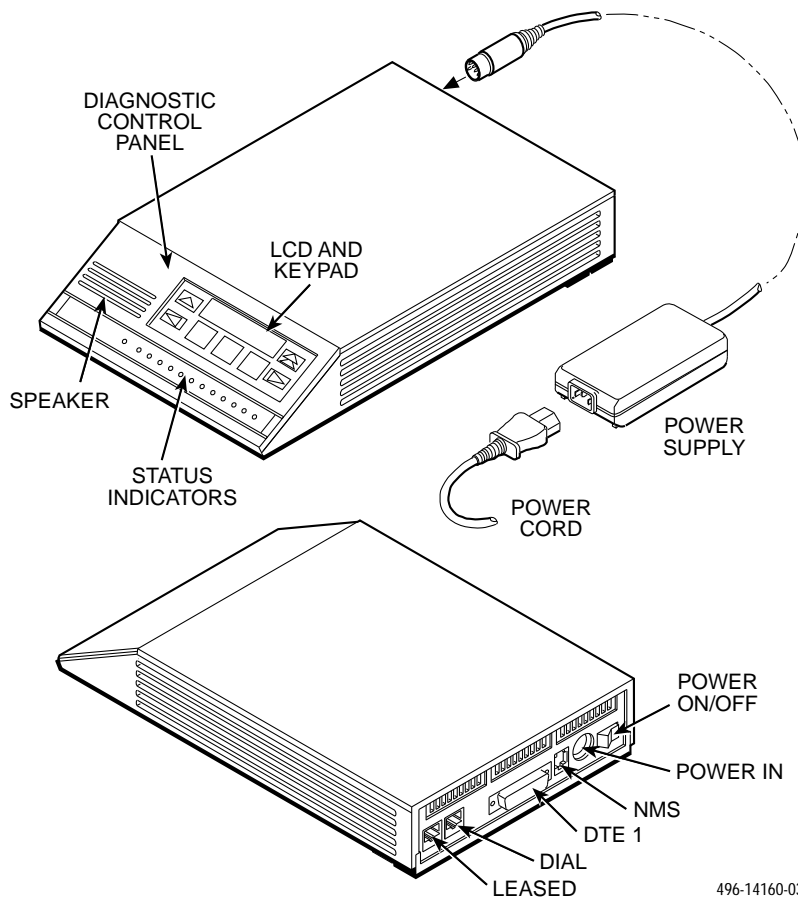
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**Overview**

The 3820Plus modem, Model 3982-A1-401 (Figure 1), has different installation instructions than those shown in the *COMSPHERE 3800Plus Modems User's Guide* (3980-A2-GB30). The Model 3982-A1-401 modem has an 8-pin modular jack for leased-line connection and a 6-pin modular jack for dial-line connection. The model

shown in the *User's Guide* has a single jack for leased-line or dial-line connection.

Use these instructions to install your modem, and keep them with your *User's Guide*.



**Figure 1. 3820Plus Modem (Model 3982-A1-401)**

## 3820Plus Modem Installation

Before installing your modem, make sure your installation site is clean and well-ventilated. Allow space around the modem for installing cables and telephone cords, and make sure the modem is located within reach of the ac power outlet. The distance between your modem and the DTE should be minimized if DTE data rates exceed 19,200 bps. Also, low capacitance cables may be necessary for speeds greater than 19,200 bps or distances greater than 50 feet.

The rear panel of the 3820Plus modem has the following switches and connectors (see Figure 2):

- An ON/Off power switch.
- An 8-pin DIN type power receptacle for the table-top power supply.
- An 8-pin modular keyed jack for 2-wire leased lines.
- A 6-pin modular keyed jack for dial (PSTN) lines.
- A 6-pin modular keyed jack for dial (PSTN) lines.
- A 4-pin modular jack for network management system (NMS) connection.
- A 25-pin DB-25-S receptacle for DTE interface.

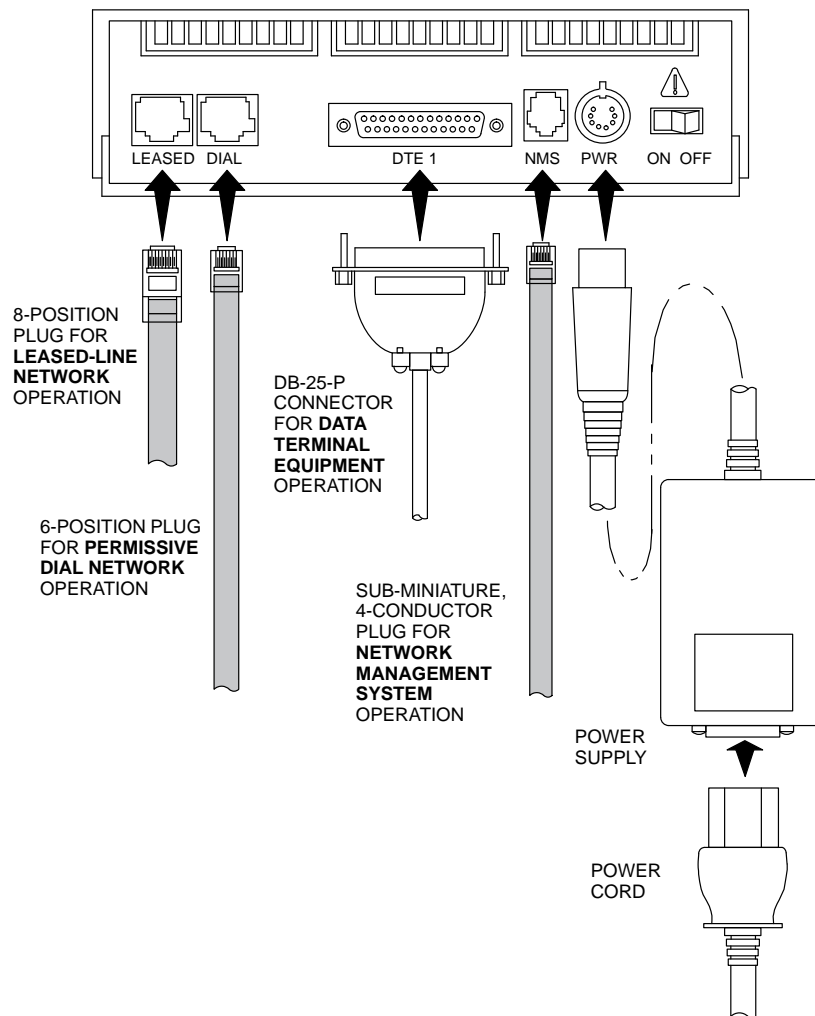


Figure 2. 3820Plus (Model 3982-A1-401) Rear Panel

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## DTE Connection

Use the following procedure to connect the RS-232D cable from the modem to the DTE:

1. Make sure the modem's rear panel power switch is Off.
2. Connect the DB-25-P (male) connector on the cable to the DB-25-S (female) connector labeled DTE 1 (Figure 2) on the modem's rear panel. Use a small screwdriver to tighten the cable to the modem.
3. Connect the DB-25-P connector on the cable to the DB-25-S connector on the DTE. Use a small screwdriver to tighten the cable to the DTE.

## Connecting 3820Plus Modems with Supplied Cables

Figure 2 shows how 3820Plus modems are connected to certain TELCO jack types using the supplied cables. For other TELCO connections, refer to Appendix D of the *COMSPHERE 3800Plus Modems User's Guide*.

### 3820Plus Dial-Line Connection

Use the following procedure to connect the 3820Plus modem to the dial network interface:

1. Insert the 6-position, 4-conductor modular plug into the jack labeled DIAL (Figure 2).
2. Insert the other end of the modular cord into the dial network interface ("demarc").

### 3820Plus 2-Wire Leased-Line Network Connection

Use the following procedure to connect a 3820Plus modem to the leased-line network interface:

1. Insert the 8-position, 8-conductor modular plug into the jack labeled LEASED (Figure 2).
2. Insert the other end of the modular cord into the leased-line network interface ("demarc").

## AC Power Supply Connection

### WARNING

Power supplies from other modems may fit into the DIN jack, but connecting the wrong power supply can cause damage to the modem or the power supply.

Use the following procedure to connect the modem to an ac power outlet:

1. Make sure the modem's power switch is in the Off position.
2. Insert the power transformer's 8-pin DIN male connector into the modem's rear panel power receptacle (Figure 2).
3. Connect the power supply to a grounded ac power outlet.

## Network Management System Connection

Use the following procedure to connect the modem to the network management system interface:

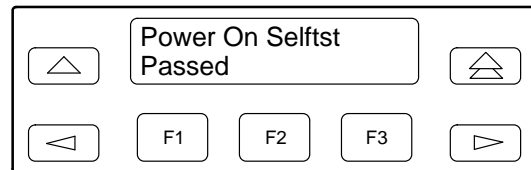
1. Insert the subminiature 4-conductor modular plug of the 3600 Hubbing Device (Figure 3) into the jack labeled NMS (Figure 2).
2. Connect the 3600 Hubbing Device to the network management system.

Refer to the *3600 Hubbing Device, Feature Number 3600-F3-300, Installation Instructions* for more information. Installation for the 3820Plus modem is the same as for the 3610 DSU.

## Modem Power-Up

Once your modem is properly connected to the DTE, dial and/or leased lines, and ac outlet, press the modem's rear panel power switch to the ON position. The modem

begins a power-up self-test. This test takes several seconds to perform, and verifies the operation of most hardware components within the modem. If successful, the LCD displays **Power On Selfst Passed** and continues to the Top-Level menu screen.



If a failure occurs during the self-test, the LCD may display **Power On Selfst Failed** for several seconds. The LCD then may display the Top-Level menu screen with the message **Power on Fail** appearing on the top line of the LCD. Although a failure has occurred, the modem may attempt to operate. If it does, you can activate a more thorough self-test using the Test branch. Refer to Chapter 6, *Test Branch*, in the *COMSPHERE 3800Plus Modems User's Guide*.

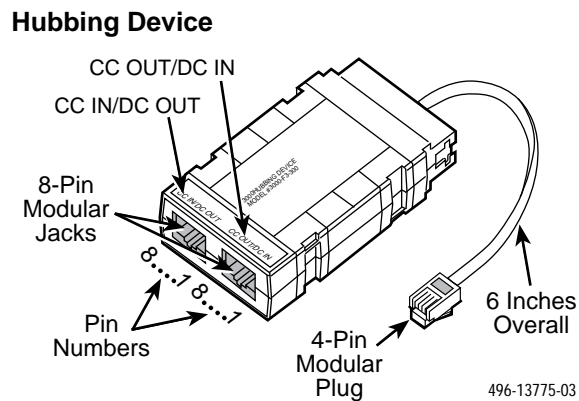


Figure 3. 3600 Hubbing Device