Instructions for Computer Operated Network Interface Card Used in INCOM Networks

I.L. 17199

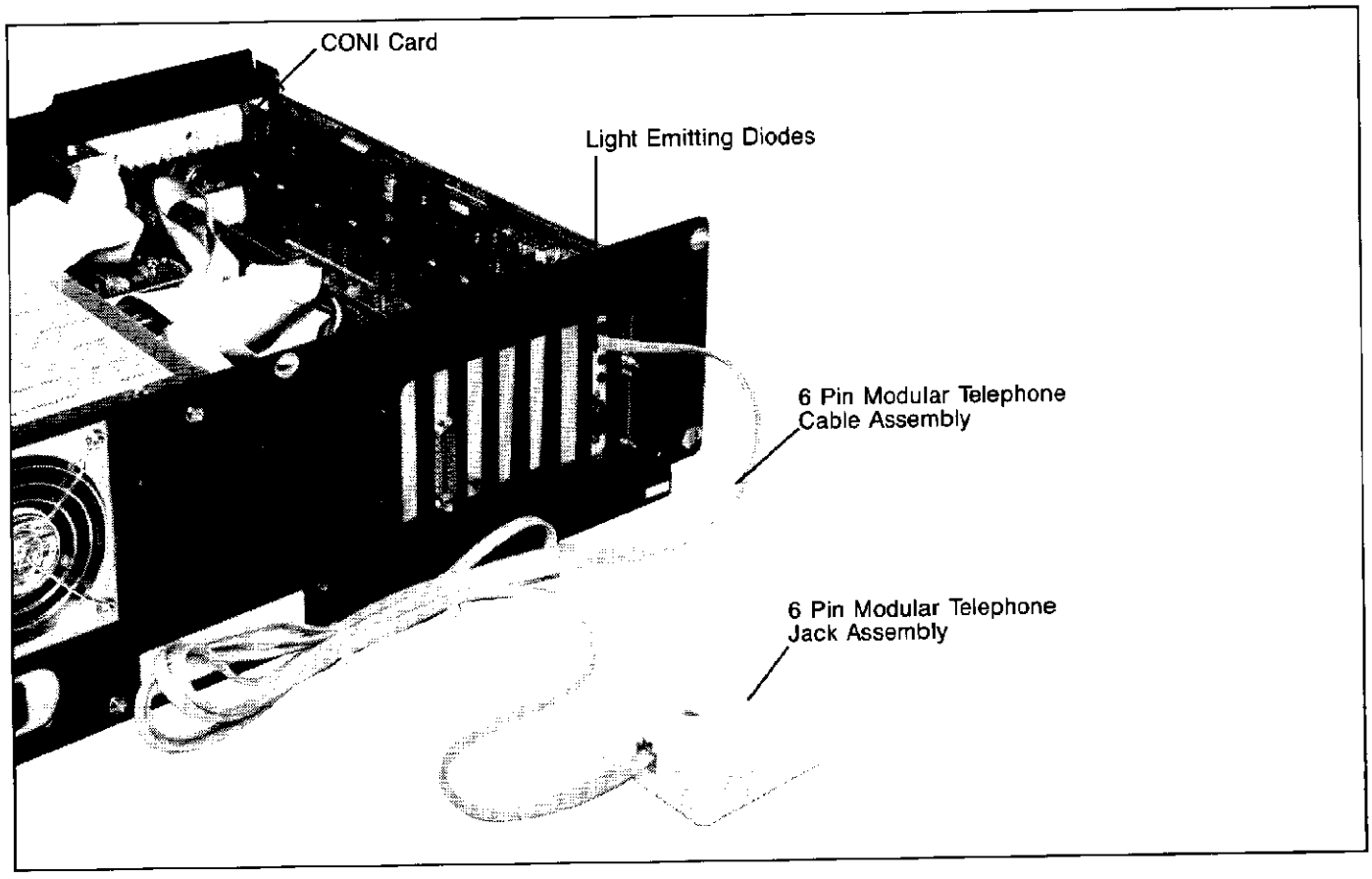

Fig. 1 CONI Card Installed in a Personal Computer

THE CONI CARD

The Computer Operated Network Interface (CONI) card is designed to communicate information from a computer control station to a solid-state control product. The CONI card can operate over a temperature range consistent with Personal Computers.

The CONI card has two Light Emitting Diodes (LED's) visible from the back of the Personal Computer (see Figure 1). These two LED's are illuminated when data is being sent in either direction between the CONI card and a solid-state control product.

HARDWARE INSTALLATION

This industrial type control is designed to be installed, operated, and maintained by adequately trained workmen. These instructions do not cover all details, variations, or combinations of the equipment, its storage, delivery, installation, checkout, safe operation, or maintenance. Care must be exercised to comply with local, state, and national regulations, as well as safety practices, for this class of equipment.

With all power OFF, install the CONI card in an IBM or IBM-compatible Personal Computer (PC) following the instructions furnished by the PC manufacturer for the installation of auxiliary printed-circuit cards.

Obtain from a local source the following items:

a. One standard 6-pin modular telephone cable assembly with a plug at each end. (See Figure 1.)
b. One standard 6-pin modular telephone jack assembly. (See Figure 1.)
c. Sufficient twisted pair cable to reach from the telephone jack to the first solid-state control product.

To connect the PC system to the network, perform the following steps:

1. Attach one end of the modular telephone cable to the mating connector on the CONI card, accessible from the back of the PC.
2. Remove the cover of the telephone jack. Attach one of the network wires to the terminal co-occupied by the yellow wire. (See Figure 2.)

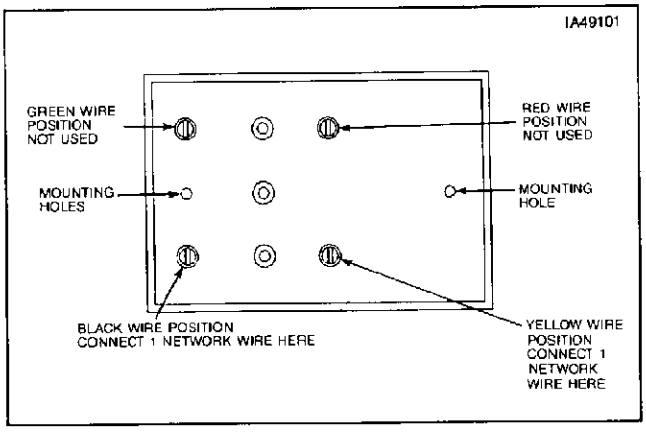

Fig. 2 Telephone Jack Assembly

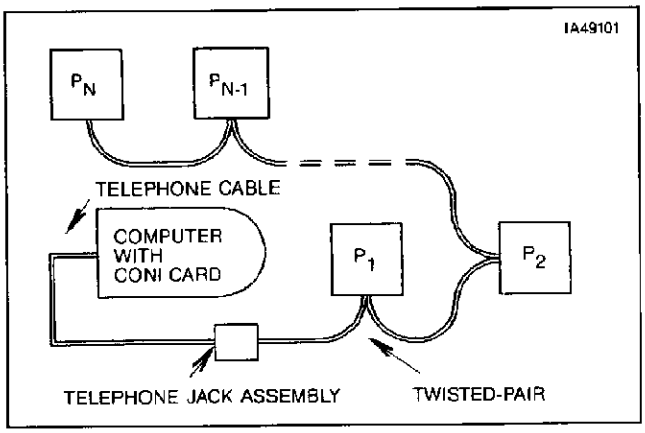

Fig. 3 Network Interwiring

HARDWARE INSTALLATION (cont.)

3. Attach the other network wire to the terminal co-occupied by the black wire. (See Figure 2.)

NOTE: In this case, polarity of the network is not important. See Figure 3.

4. Replace the cover of the telephone jack.
5. Attach the free end of the telephone cable to the mating connector located in the telephone jack.

The PC system with installed CONI card is now physically tied into the network.

CONI CARD SERVICING

There are no user serviceable parts on the CONI card. The user should not make any attempt at servicing this equipment.

If there is a problem with the CONI card, and it is suspected that it is causing a problem, check the red LED's located at the rear of the card. These LED's are visible from the rear of the PC, so there is no need to remove the cover. The LED's are normally off, except during network transmission. If these LED's are constantly on, the CONI card may need servicing. Consult the factory (704-684-2381).

SOFTWARE INSTALLATION

The CONI card is driven by a standardized program furnished on a master floppy diskette along with the CONI card. The instructions shown below assume that the DOS command "PROMPT=PG" has been issued at some prior point in time, causing the current subdirectory to be displayed as part of the DOS prompt.

Copying the Standardized INCOM Software to a Floppy Diskette

Perform the following steps:

1. Turn on the power to the PC, and boot up DOS release 2.0 or later.
2. Using DOS commands, create a system disk on a blank diskette with the /S and /V options. When prompted to enter a Volume name, enter **INCOM.**
3. Insert the **Standardized INCOM Software** master diskette in drive A, and the newly created system diskette in drive B.
4. Enter the command:
   A:\>Copy A:*.* B:*.*
   This will copy all necessary files from drive A (the master) to drive B.
5. The statement "DEVICE=<path>INCOM.SYS" will appear in the CONFIG.SYS copied over to B.
6. Label the newly created **Standardized INCOM Software** system diskette with a felt tip pen.
7. Store away the **Standardized INCOM Software** master diskette in a safe place for future use.

Copying the Standardized INCOM Software to a Fixed Disk

Perform the following steps:

1. Turn on the power to the PC, and boot up DOS release 2.0 or later.
2. Insert the **Standardized INCOM Software** master diskette in drive A.
3. Enter the command:
   A:\>Copy A:*.* C:*.*
   This will copy all necessary files from drive A (the master) to drive C.
4. The statement "DEVICE=<path>INCOM.SYS" will appear in the CONFIG.SYS copied over to C.
5. Store away the master diskette in a safe place for future use.

Note that these files from the **Standardized INCOM Software** master diskette could just as easily reside within a subdirectory by specifying the proper <path> in (5) above, and with slight modification to the AUTOEXEC.BAT file.

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