

# Instructions for Computer Operated Network Interface Used with IMPACC Networks

I.L. 17436A

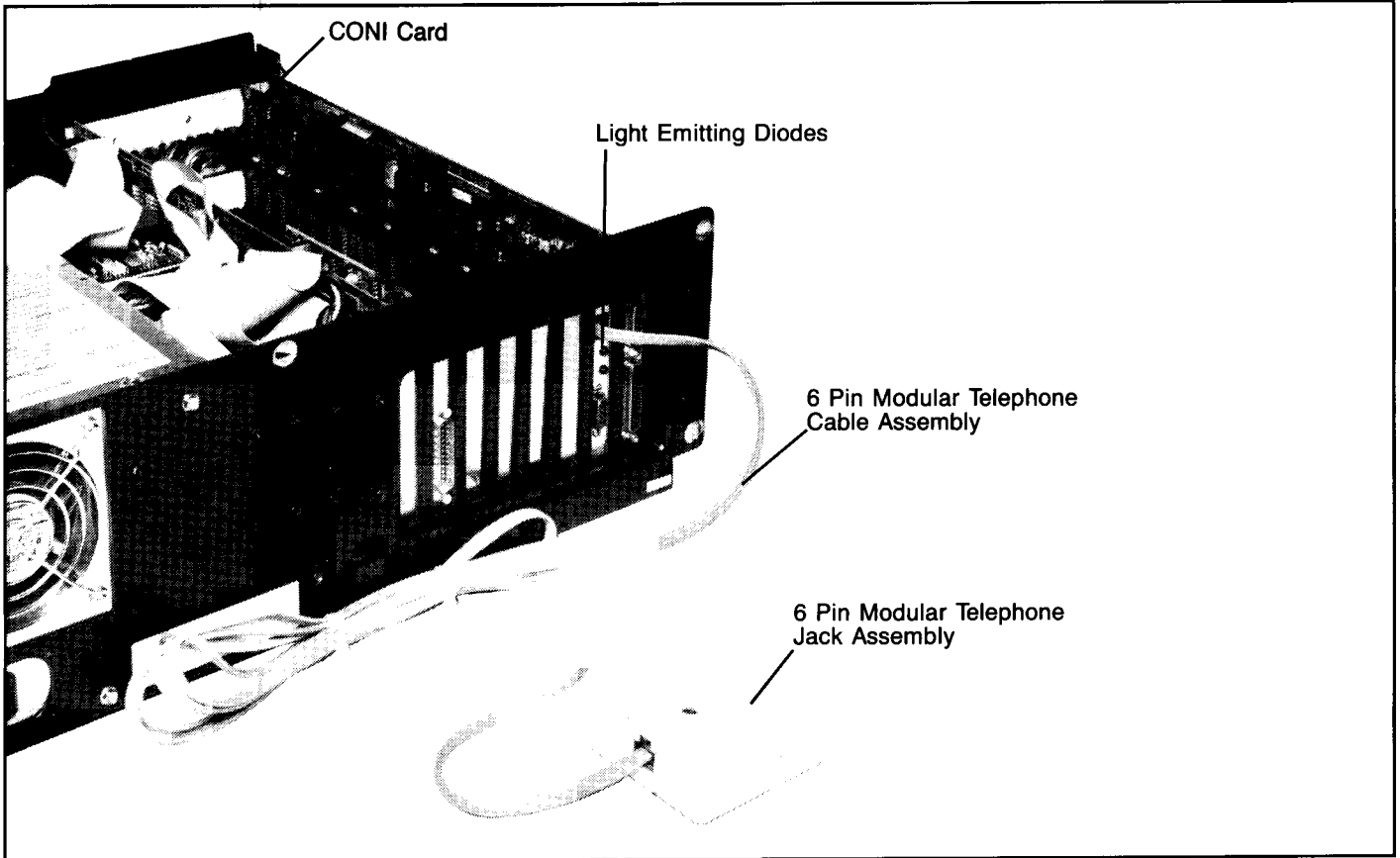


Fig. 1 CONI Card installed in a personal computer

## THE CONI

The Computer Operated Network Interface (CONI) communicates information between a computer control station and IMPACC™ or INCOM™ compatible product(s). The CONI operates over a temperature range consistent with IBM Personal Computers or IBM compatible personal computers (PC).

The CONI has two red Light Emitting Diodes (LED's) visible from the back of the PC (see Fig. 1). These LED's are lit when data communications is occurring on the IMPACC network.

The CONI has selectable interrupt levels and network speeds. See Figure 2 for the jumper configurations and Figure 3 for the jumper locations of the CONI. The available interrupt options are IRQ3 (COM 2), IRQ4 (COM 1), IRQ5, IRQ9, and IRQ7. The available baud rate options are 1200, and 9600 baud.

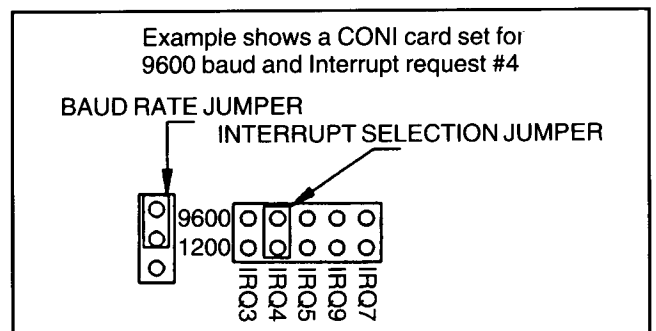


Fig. 2 Configuration Jumpers

## HARDWARE INSTALLATION

The CONI is designed to be installed, operated, and maintained by adequately trained workmen. These instructions do not cover all details, variations, or combina-

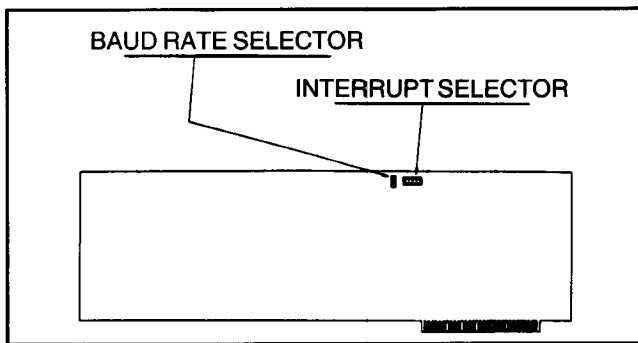


Fig. 3 Jumper Locations

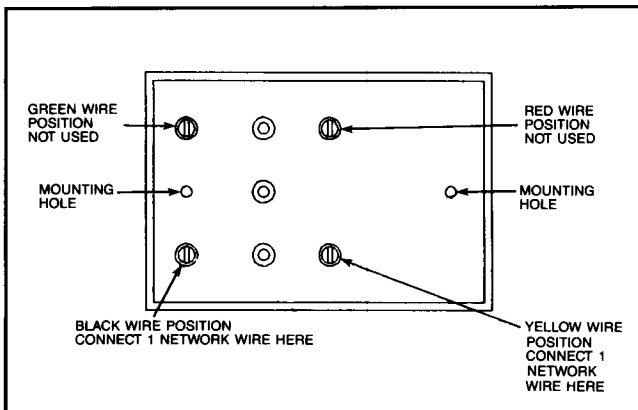


Fig. 4 Telephone Jack Assembly

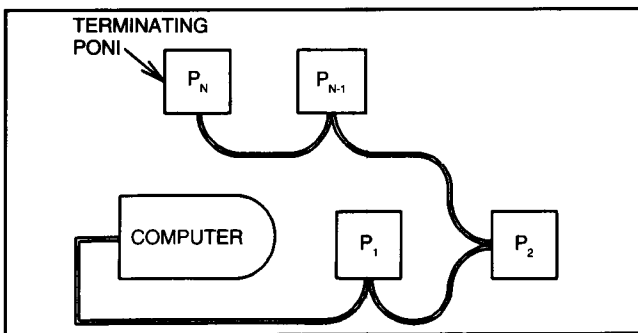


Fig. 5 Network Interwiring

**HARDWARE INSTALLATION (cont.)**

tions of the equipment, its storage, delivery, installation, check-out, 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.

**NOTE: The 9-pin connector on the exterior of the CONI is for factory testing only. DO NOT plug any device into this connector.**

**NOTE: Electrostatic discharge (ESD) can damage the CONI. Use ESD precautions when removing the CONI from its anti-static envelope. When not installed in a PC the CONI should be kept in its anti-static envelope.**

Before installation can begin, obtain the following items:

1. One standard 6-pin modular telephone cable assembly with a plug at each end. (Fig. 1)
2. One standard 6-pin modular telephone jack assembly.
3. Sufficient twisted pair cable (Belden 9463 or equivalent) to reach from the telephone jack to the first IMPACC product.
4. One IBM PC or compatible.
5. One Westinghouse CONI.

To install the CONI onto the network, perform the following steps:

1. Set the CONI's interrupt jumper to a level which is unoccupied in the PC. If the CONI is being installed where a previous CONI was operating, then IRQ3 would be recommended as a first choice of interrupt levels.
2. Set the CONI's baud rate jumper to the baud rate at which the entire IMPACC network will be operating. All products on a single network must operate at the same baud rate.
3. With all power OFF, install the CONI in a PC following the instructions furnished by the PC manufacturer for the installation of auxiliary printed-circuit cards.
4. Attach one end of the modular telephone cable to the mating connector on the CONI, accessible from the back of the PC.
5. Remove the cover of the telephone jack. Attach one of the network wires to the terminal co-occupied by the yellow wire. (Fig. 4)
6. Attach the other network wire to the terminal co-occupied by the black wire. (Fig. 4)

**NOTE: In this case, polarity of the network is not important. (Fig. 5)**

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

The PC system with installed CONI is now physically tied into the network. Provided the proper software is installed in the PC, the CONI is ready to begin operating.

**CONI SERVICING**

In the unlikely event that there is a problem with IMPACC network and it is suspected that the CONI is the problem try the following items:

1. Check the baud rate selection.
2. Check the interrupt level selection.
3. Check the application software installation.
4. Changing the interrupt level of the CONI.
5. Remove and replace the CONI in the PC card slot.
6. If this does not solve the problem, check the CONI's LED's located at the rear of the PC, while the appli-

cation software is running. If the LED's never light or are constantly on, the CONI card may need servicing.

There are no user serviceable parts on the CONI. The user should not attempt servicing this equipment. Please contact your local Westinghouse representative or the **Westinghouse Advanced Product Support Center (1-800-542-7883)** for service information or additional questions regarding the CONI or any other IMPACC product.

## SOFTWARE NOTES:

Refer to the instructions included with the intended application software package for the installation and operation of the software with the PC.

The CONI replaces all previous CONI cards in function. It does not have a built in real time clock or battery backed memory. These functions have been moved to the PC or individual IMPACC devices.

The CONI works at all baud rates with IMPACC SERIES III, SERIES I, and GENESIS software.

The CONI must be set to IRQ3 for use with IMPACC SERIES I and GENESIS software.

