

COMMUNICATIONS DISPLAY
INTERFACE MODULE CDIF810

INSTALLATION

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1. GENERAL

1.01 This section provides installation information for the communications display CDIF810 interface module.

1.02 Installation information for the CDIF810 module was formerly contained in Section 578-110-200, a Limited Printing BSP document that was an Issue 1 release. Limited Printing practices were formerly printed and distributed by Teletype Corporation on a need to know basis. The limited printing practice for the CDIF810 module is cancelled and replaced by this practice which includes the latest information available at this time.

1.03 Issue 1 of this section represents the first standard printing available for general distribution in the Bell System. Field change notice (TCN) information was included in this section wherever applicable up to the time of this printing.

1.04 The CDIF810 module provides a data recovery channel for the 4210 Magnetic Tape Terminal, used in the Cluster Controller Station, into a main edit CDT or DATASPEED 40 terminal. The module provides a means of control and signal interface to enable the main edit terminal to interconnect with the MTT set and the cluster controller.

1.05 The interface module is generally factory assembled and installed into a CDT set cabinet or into a 2541 Buffer/Interface set cabinet prior to shipment. Early versions of the BIS (Business Informational Systems) arrangements used CDT equipment and housed the module in the CDT cabinet. At the present time, BIS station arrangements are using DATASPEED 40 sets which require a 2541 Buffer/Interface set to house the CDIF810 module. The physical size of the module is unchanged in either use and is therefore completely interchangeable with the CDT or 2541 sets.

1.06 The 2510 CDT installation shown in Figure 4 of this document requires that the CDT set contain a CDDC803 display controller module. The 2510 CDT sets using a CDDC801 display controller module cannot be used with the CDIF810 module.

2. UNPACKING

2.01 The interface module should be unpacked as follows:

- (1) Observe all unpacking instructions and cautions.
- (2) Open one end of the carton and remove the four plastic corner protectors.
- (3) Carefully lift the module out of the carton and remove the protective liner.
- (4) Remove the muslin bag. It should contain any necessary cables or hardware used to install the module.

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SECTION 578-110-202

3. VISUAL CHECKOUT

3.01 Visual checkout should be as follows (Figure 1):

- (1) Verify the identification code on the module.
- (2) Visually inspect for damaged parts, loose circuit cards, broken wires or shorted terminals.
- (3) Check each circuit card to be sure it is fully seated in its appropriate connector.
- (4) Check all wiring options. Refer to the appropriate wiring diagram package and circuit descriptions.

4. INSTALLATION

4.01 The procedure for installing the interface module into the CDT cabinet can be found in Section 578-100-702.

4.02 The procedure for installing the CDIF810 module into the 2541 Buffer/Interface set is given in the associated BSP, Section 578-140-700. Referral to this document should only be necessary if the module is installed in the field.

5. PROGRAMMING

5.01 The table lists operation programming for the module. Refer to Figures 2 and 3 respectively for illustrations that identify locations of option screw placement on the circuit cards.

5.02 Program the module for options 1a., 2b., and 3a. when the module is used with a CDT or DATASPEED 40 in a 2550 Cluster Controller station arrangement.

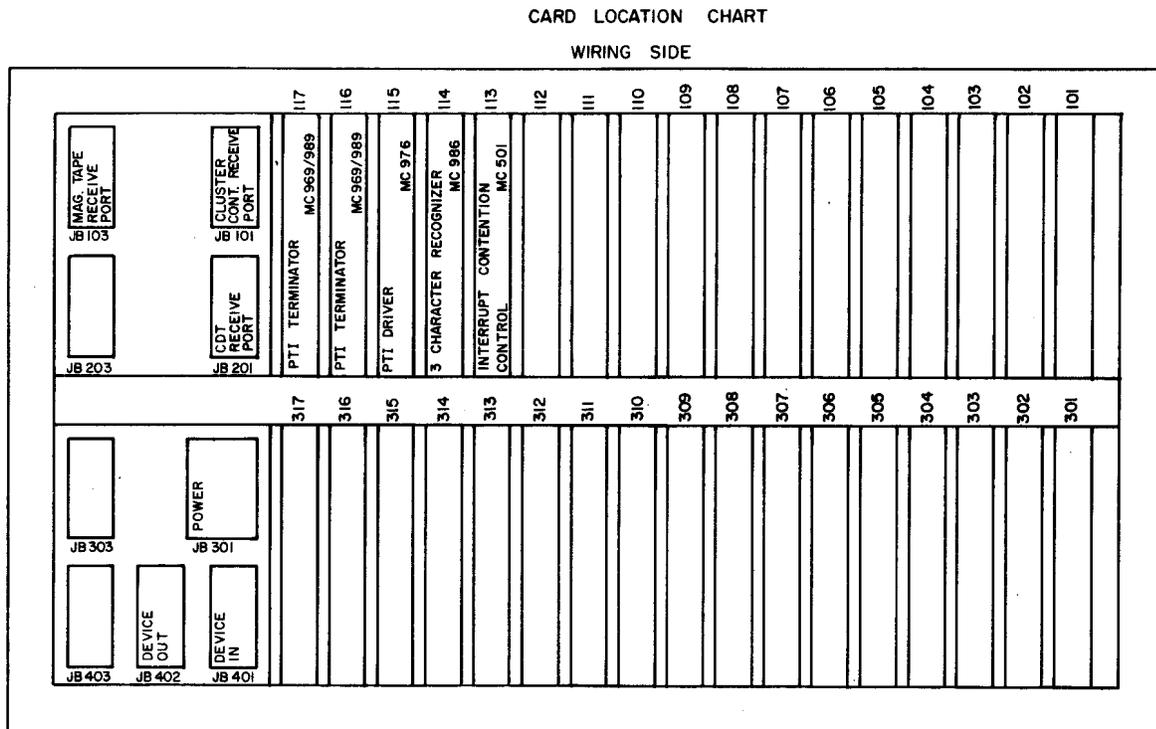


Figure 1 - CDIF810 Interface Module (Viewed From Wired Side)

TABLE

OPTION	OPTION FUNCTION	CIRCUIT CARD	MODULE LOCATION	TO ENABLE OPTION
*1a.	Sender	MC969	ZB116	Insert program screw into location A.
b.	Receiver			Insert program screw into location B.
2a.	Sender	MC969	ZB117	Insert program screw into location A.
*b.	Receiver	MC969		Insert program screw into location B.
*3a.	ETX	MC986	ZB114	In row X, move screws from 1 and 2 in row S to positions 1 and 2 in row M.
b.				Row Y, this position can be coded for any ASCII character.
c.				Row Z, this position can be coded for any ASCII character.

*Indicates programming required by the installer.

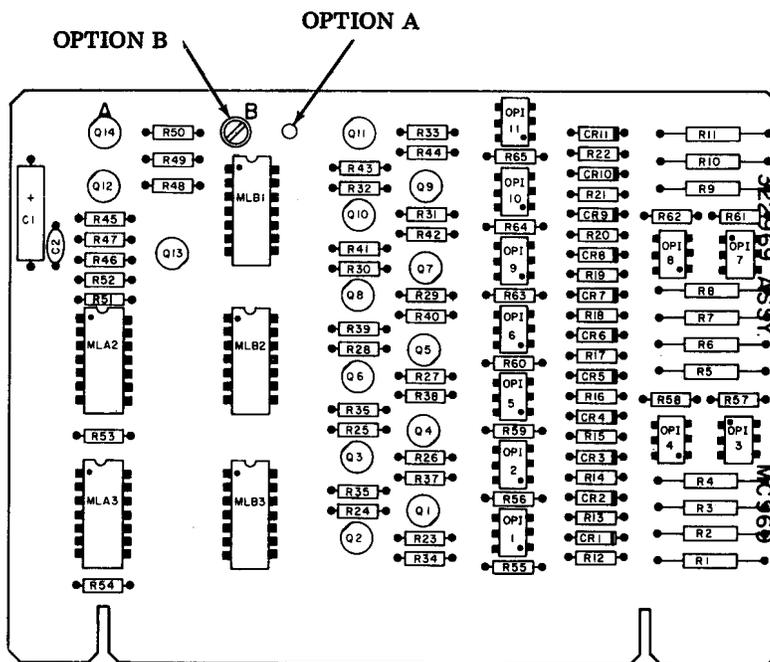


Figure 2 - TP322969 (MC969) Circuit Card Programming

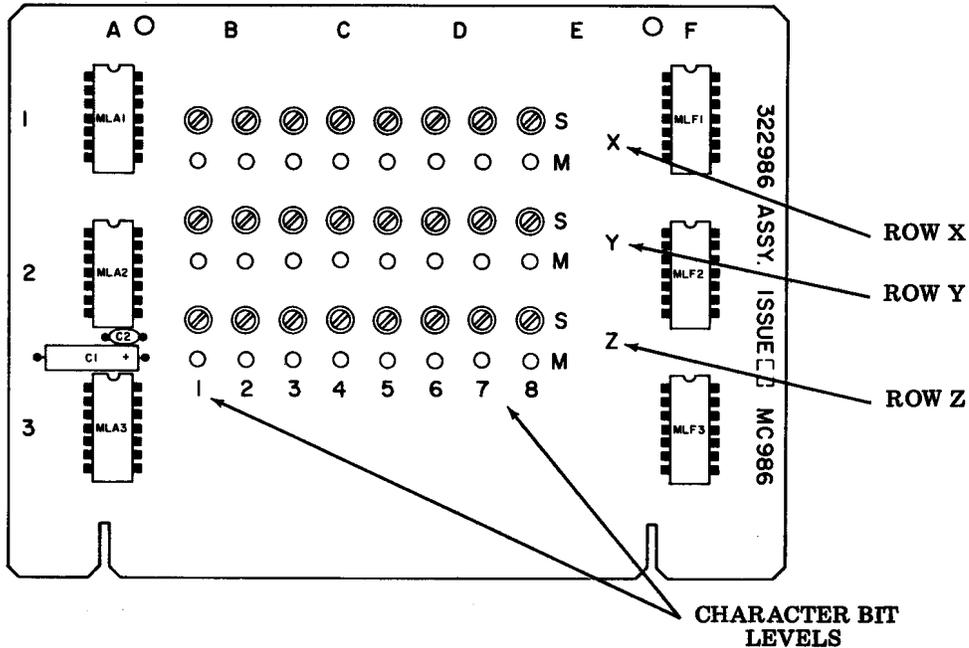


Figure 3 - TP322986 (MC986) Circuit Card Programming

A. 2510 — 2511 CDT Output Device

5.03 The receiving device connected to JB201 connector on the CDIF810 module should have TELETYPE® PTI Signal Interface for message, character control, and data bit signaling.

5.04 Remove the TP322969 (MC969) circuit card from module position ZA316 on the CDT display controller module. Program the card for Option B. Figure 2 in this document provides the necessary pictorial view to accomplish this task.

5.05 Replace the card back in its original position, ZA316. If additional programming information is required for the 2510 CDT, refer to Section 578-100-200; for the 2511 CDT, refer to Section 578-101-200.

B. DATASPEED 40 Output Device

5.06 The DATASPEED 40 device connected to JB201 connector on the CDIF810 module should conform to the PTI interface signaling for message, character control, and data bit signaling.

5.07 Remove the TP410677 circuit card from the DATASPEED 40 controller module and program it for "Receive Selectable

On". The number 4 rocker switch in card location grid C-9 should have the rocker switch with the dot end of the switch depressed, on condition.

5.08 Replace the card back into the DATASPEED 40 controller. Refer to existing set Sections, wiring diagrams, and other sources if additional information is needed.

6. CABLING

6.01 If necessary, reference should be made to the 0267 wiring diagram package (WDP) for the location of input and output connectors, circuit cards, circuit card connectors, and associated functional and schematic wiring diagrams.

6.02 Cabling diagrams to interconnect the module to a CDT and Cluster Controller station arrangement are provided in Figure 4. Customer required cable wiring is shown in Figure 7.

6.03 Cabling diagrams to interconnect the module to a DATASPEED 40 and Cluster Controller station arrangement are shown in Figure 5. Wiring information and the parts required to make the interconnecting cables a customer must install are listed in Figures 6 and 7.

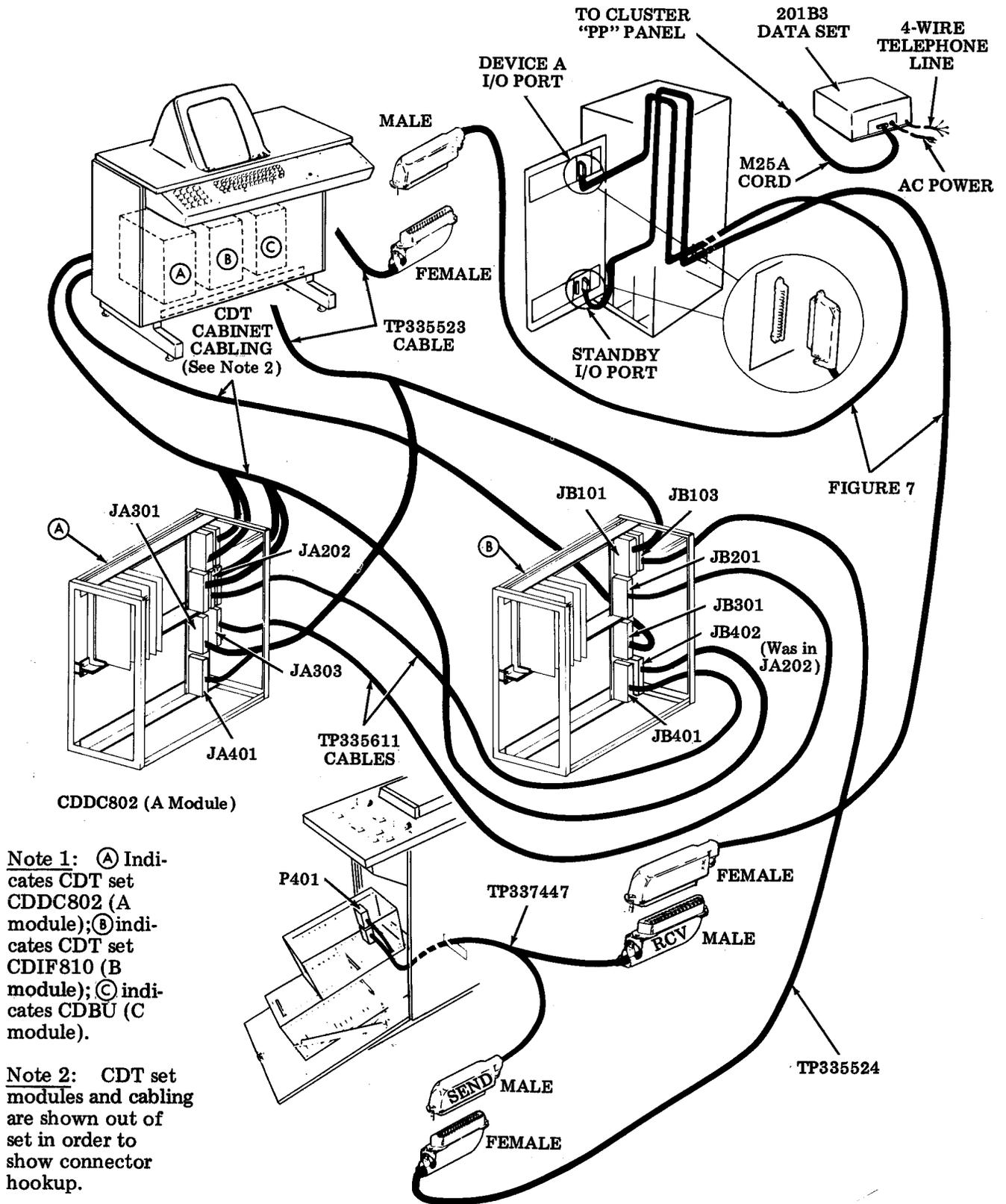
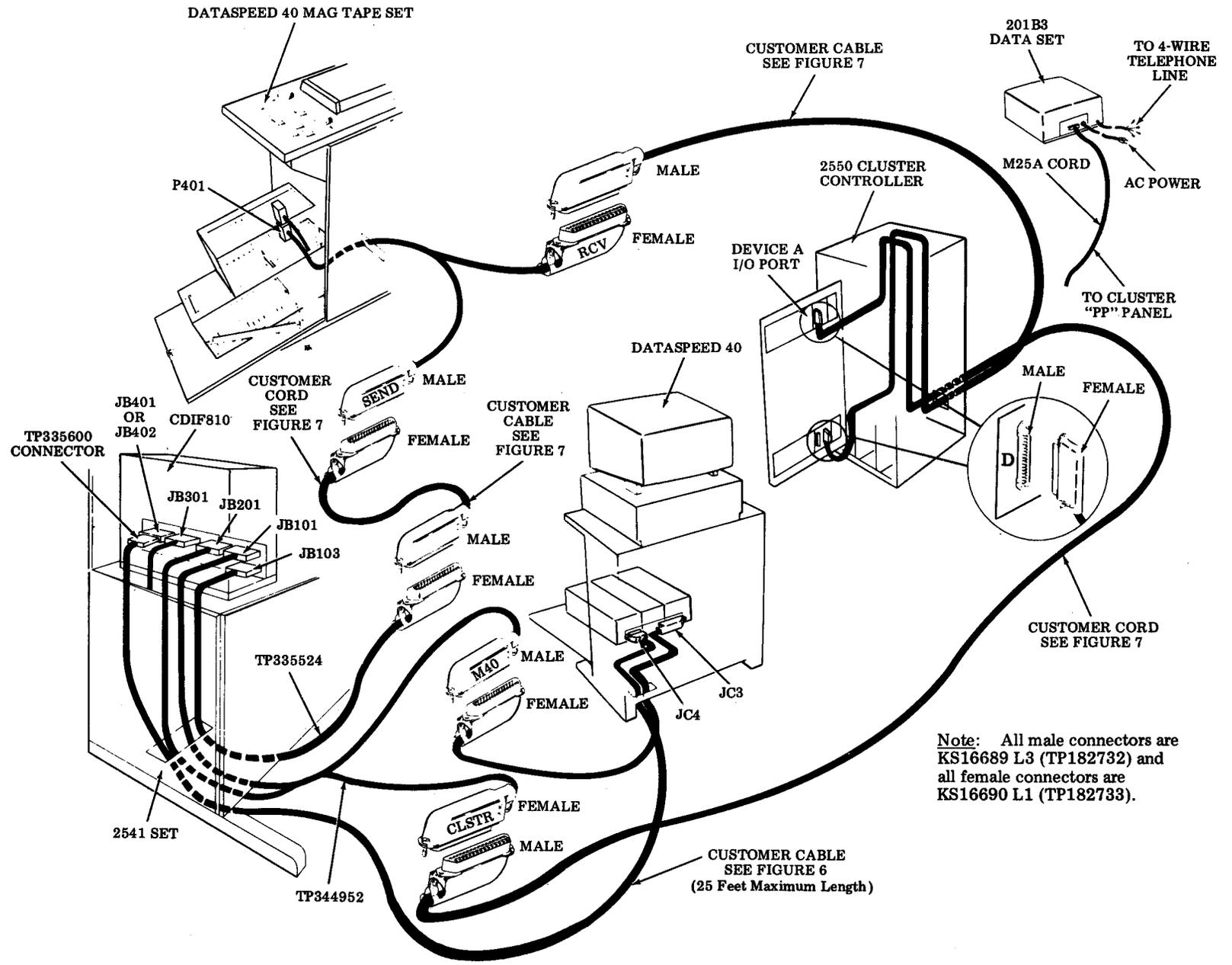


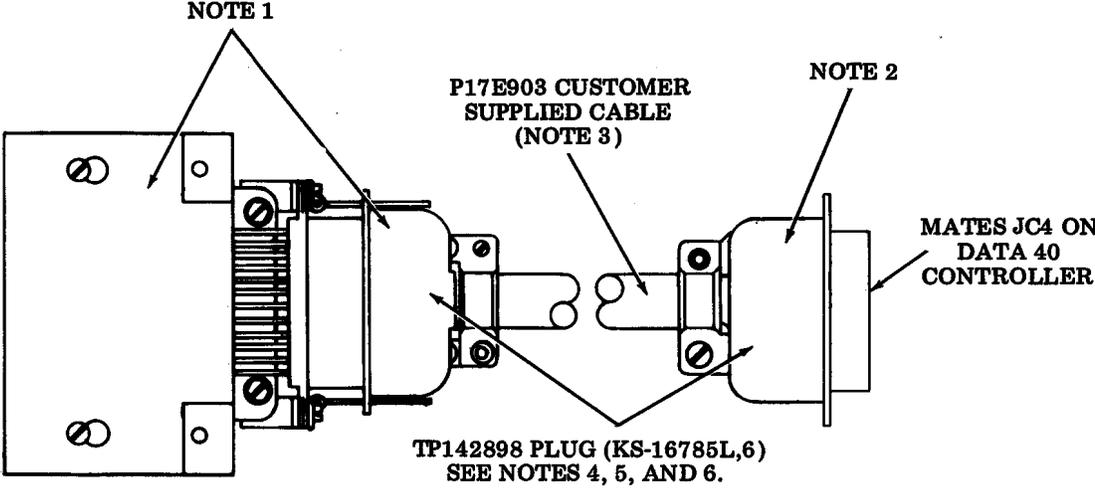
Figure 4 - CDIF810 Module Hook-Up Arrangement for Use With 2510 or 2511 CDT Sets, 4210 MTI Set, and 2550 Cluster Controller

Figure 5 - CDIF810 Module Hook-Up Arrangement for Use With a Dataspeed 40, 4210 MTT Set, and 2550 Cluster Controller

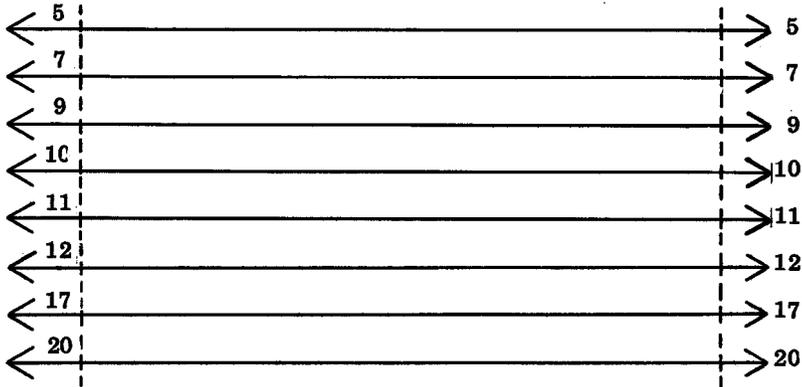


Note: All male connectors are KS16689 L3 (TP182732) and all female connectors are KS16690 L1 (TP182733).

CUSTOMER CABLE SEE FIGURE 6 (25 Feet Maximum Length)



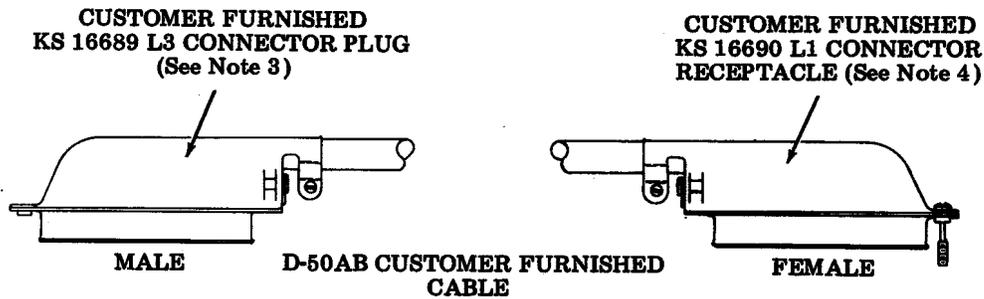
SCHEMATIC WIRING



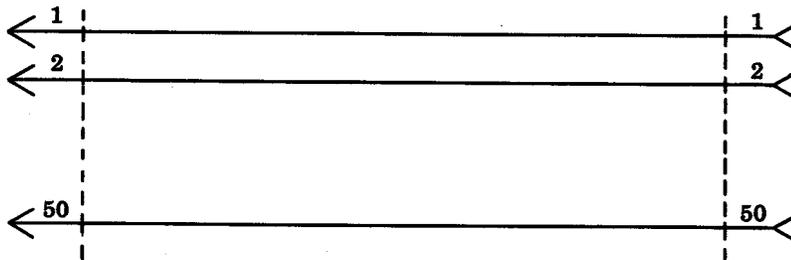
Wire leads of cable as shown in this diagram or instruct cable maker to make the cable from terminal number 1 to terminal number 1, etc, for all remaining wires (one to one cable).

- Note 1: Part of the TP335600 connector assembly supplied with the 2541 Buffer/Interface set.
- Note 2: See Figure 5; TP142898 connector plug is supplied with the Data 40 controller.
- Note 3: Customer supplied cabling. Cable length must not exceed 25 feet maximum between devices (maximum limit for PDI signaling).
- Note 4: The maximum cable diameter for TP142898 is 15/32 inch.
- Note 5: Maximum wire size for each terminal is 22 AWG.
- Note 6: Maintenance parts for the plug are: TP90791 Internal Lockwasher, TP87636 Screw size 2-56 by 3/16 inch Round Head.

Figure 6 - Customer Wired PDI Signal Cable



SCHEMATIC WIRING



Wire all leads of D-50AB cable from terminal number 1 to terminal number 1, etc, for all remaining leads. If the standard cable lengths are ordered as described in Note 1, disregard this instruction.

Note 1: D-50AB type cords come equipped with the necessary mating connectors (double-ended) when the standard lengths of either 5 feet 6 inches, 9 feet, 13 feet, and 25 feet are ordered from WE. All special cable lengths must order the connector portions separately. It is suggested that all cables be ordered from WE well in advance of the installation date to insure of their availability.

Note 2: The cable length must not exceed 1000 feet maximum distance between devices (maximum distance for Teletype PTI signaling).

Note 3: When preparing the cable to the DATASPEED 40 set, this connector (TP182732) is furnished with the set controller electronics.

Note 4: This connector can also be ordered from Teletype under part number TP182733.

Figure 7 - Customer Wired PTI Signal Cable