

VOICE CONNECTING ARRANGEMENT CDY PICK-UP BUTTON, BELL SYSTEM TELEPHONE SET

1. GENERAL

1.01 This section provides identification, operation, installation, maintenance, and connection information for Voice Connecting Arrangement CDY used to terminate a line from a customer-provided (CP) system (intercom or paging system) on a Telephone Company provided key telephone set.

1.02 This section is reissued to show 66M1-50 connecting block and to revise Fig. 2.

1.03 The customer should be informed by the supplier or manufacturer of the equipment, of the proper use and operation of Voice Connecting Arrangement CDY with his equipment.

1.04 If the customer wants a copy of the Technical Reference which covers this interface specification, the customer should contact the local Telephone Company Business Office or the Marketing Representative.

2. IDENTIFICATION

(a) *Purpose:*

- To provide a termination, without connection to the telecommunications network, for a line from a CP system to a Bell System key telephone set.

(b) *Application:*

Key Telephone and PBX Systems

(c) *Ordering Guide:*

Block, Connecting, 66M1-50 (one per 25 CP line circuits)

Note: Other types of blocks may be used when specified by local engineering.

Optional Apparatus:

- Unit, Telephone, Key (one per CP line if station set lamps and ringer are to be used for signaling)

((d) *Design Features:*

- Provides voice frequency coupling to and from the CP equipment
- Provides for dialing into the CP equipment
- Provides for accepting ringing signals from the CP equipment when optional KTU is provided
- Does not provide dc isolation to the CP equipment
- Does not provide voice signal limiting
- Talking battery must be furnished by the CP equipment
- Provides standard KTS services when optional line circuit KTU is provided.

3. METHOD OF OPERATION

3.01 *With Optional Line Circuit:*

(a) The CP equipment has access to the key telephone set by dialing the assigned code and applying ringing voltage over CT and CR leads to the key telephone line circuit. The set ringer is activated (audible signal) and the pick-up button lamp (when illumination is provided) associated with the CP equipment is energized.

(b) The call can be answered at any appearance of this line in the key telephone system by depressing the flashing pick-up button and lifting the handset. This places the telephone set receiver and transmitter across the incoming

line. Talking battery is supplied by the CP equipment.

(c) If HOLD is provided and it is desired to hold the call from the CP equipment while originating or receiving a call on another line, the key telephone set HOLD button is depressed; this places a holding bridge across the leads from the CP equipment. To remove the hold, depress the line pickup button associated with the held line to transfer connection of the line from the hold circuit to the key telephone set network.

(d) Access to the CP equipment can be obtained at any appearance of this line by depressing the associated pick-up button, lifting the handset, and dialing the code assigned to the desired station.

3.02 Without Optional Line Circuit KTU:

(a) An external CP signaling arrangement is activated to signal the desired station of an incoming request. The incoming call can be answered at any appearance of this line in the key telephone system by depressing the associated pick-up button and lifting the handset. Talking battery is furnished by the CP equipment.

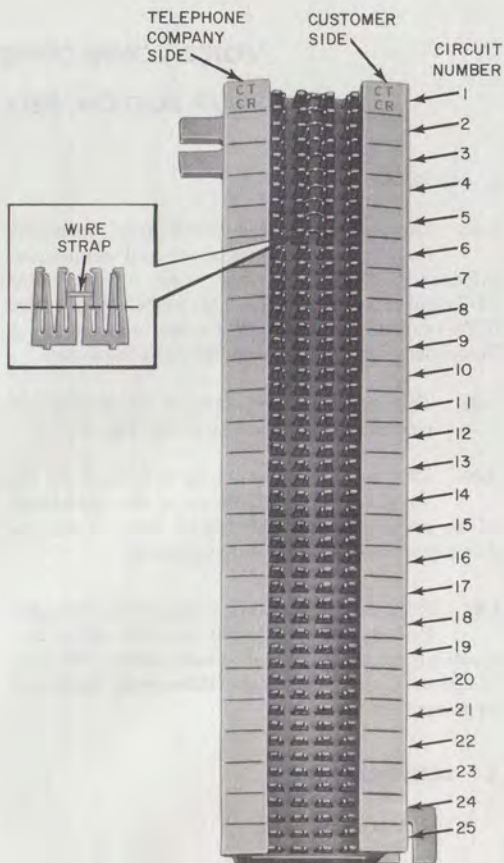
(b) Access to the CP equipment can be obtained at any appearance of this line by depressing the associated line pick-up button, lifting the handset, and dialing the assigned code.

3.03 Disconnect: The key telephone station set can be disconnected from the CP equipment either by going on-hook or by depressing another line pick-up button (to answer or originate a call on the telecommunications network).

4. INSTALLATION

4.01 Install the 66M1-50 connecting block in a dry area free of excess dirt and dust within 25 feet of the key telephone equipment.

4.02 Electrical connection is made to the key telephone system line circuit through a pair of wires terminated at the 66M1-50 connecting block for access to the CP equipment. Stencil lead designations on 66M1-50 connecting block as shown in Fig. 1.



◆ Fig. 1—66M1-50 Interface Connecting Block ◆

4.03 See sections covering key telephone system installations for procedures for installing the optional line circuit KTU.

5. MAINTENANCE

5.01 When trouble is reported, check for loose or broken connections.

5.02 Open circuit at the Interface Connecting Block to verify in which direction the trouble exists. If the trouble is toward the CP equipment, inform the customer that the trouble tests towards his equipment.



Do not attempt any repairs to the customer-provided equipment.

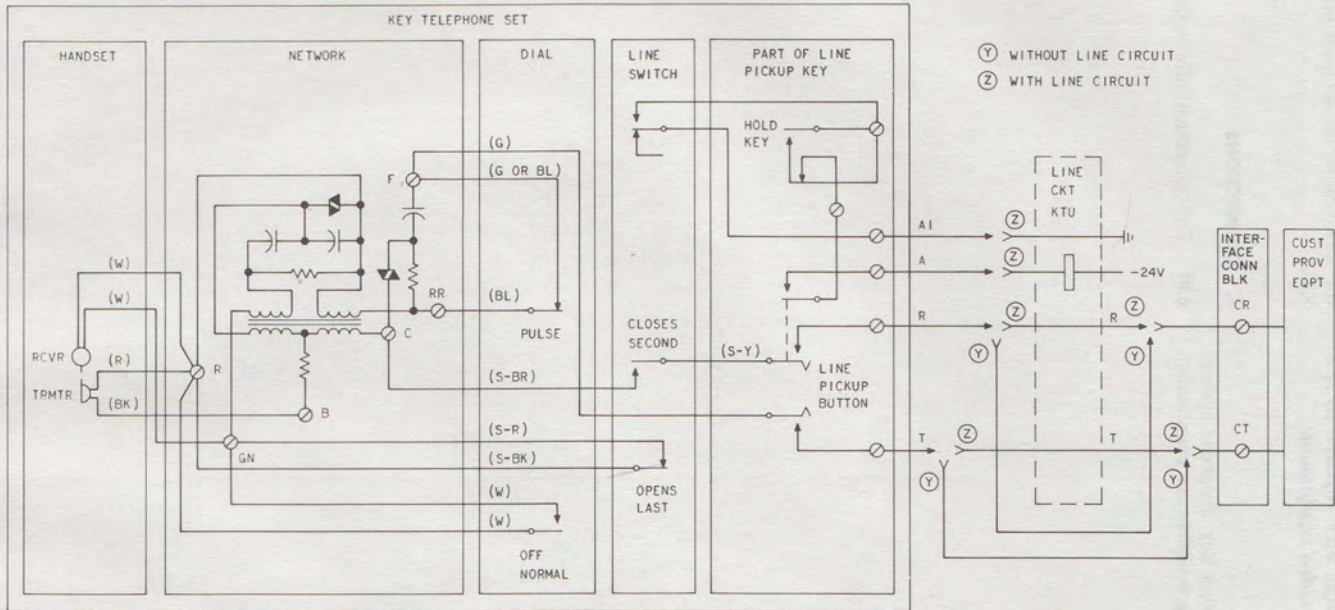
- 5.03** See sections covering key telephone system maintenance for procedures on maintaining

the key telephone set and optional line circuit KTU.

6. CONNECTIONS

- 6.01** For connection information refer to Fig. 2.





◆ Fig. 2—Schematic-Voice Connecting Arrangement CDY Using 1A1 or 1A2 KTS ◆