

## INTERFACE TERMINATION JTA USED WITH CONFORMING ANSWERING DEVICES INCORPORATING AUTHORIZED PROTECTIVE CONNECTING MODULES

### 1. GENERAL

**1.01** This section provides information on a customer-provided (CP) conforming answering device incorporating Authorized Protective Connecting Module (APCM) connected to a Key Telephone System (KTS) installation.

**1.02** Whenever this section is reissued, the reason for reissue will be listed in this paragraph.

### 2. PURPOSE

- To permit direct electrical connection of a CP conforming answering device incorporating APCM to any one line of a KTS installation by means of a telephone company-provided interface termination.

### 3. IDENTIFICATION

**3.01** Interface termination JTA consists of a supervisory relay to provide A-lead control for any one line of a KTS. A KS-21566 adapter (Fig. 1) provides the interface between the approved telephone answering devices and the KTS.

**3.02** Conforming answering devices included in this program are designed to answer incoming calls on the line, to transmit a prerecorded voice announcement or audible signal to the calling party, to record a voice message from the calling party, and to disconnect from the line. These devices may include provisions to retrieve recorded messages or change an announcement message. These provisions do not include devices which provide call origination. A dictation system, which meets the requirements, will be considered an automatic answering device.

**3.03** Conforming answering devices, which are acceptable for use, will have a Conformance Number permanently labeled on the external housing of the device.

**3.04** An APCM must be provided by an authorized manufacturer and connected to the telecommunications network by means of the interface termination provided by the telephone company. The interface termination is either a telephone company-provided 4-prong jack (single-line service) or interface termination JTA (Key Telephone Systems).

### 4. APPLICATION

**4.01** The KS-21566 adapter is furnished in two versions. The List 1 provides access to any of the first five lines in telephone sets using the standard wiring arrangement in 1A2 KTS. The List 2 provides access to any one of seven lines and is wired compatible with the 7A and 14A Communication Systems (COM-KEY\*). The 4-prong jack provides the line termination to the CPE. The line furnished to the jack is determined by the position of the wafer strip (Fig. 1).

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### 5. ORDERING GUIDE

**5.01** The following items are required to provide interface termination JTA on a per-line basis:

- Adapter, KS-21566, List 1 (for 1A1 or 1A2 KTS lines not associated with COM-KEY)
- Adapter, KS-21566, List 2 (for lines associated with COM-KEY)
- Adapter, 225A (optional—required if answering device is equipped with a modular plug). Refer to Part 6.

### 6. INSTALLATION

**6.01** The method of providing the interface termination will vary depending on what type telephone set is used and whether access to the desired line is obtained using the plug and

connector on the KS-21566 adapter, at a distribution point, or at the KTS equipment. The adapter should be physically installed at a location which permits access to the line and connection to the CPE. If the CP conforming answering device is equipped with a modular plug, provide a 225A adapter.

#### Six-Button Desk Set (565-, 2565-Type)

**6.02** Use a List 1 adapter and connect by disconnecting set mounting cord from the connector cable and installing ends in the proper plug and connector on the adapter. Move wafer strip to screw terminals accessing desired line (Fig. 1).

#### Six-Button Wall Set (851-, 2851-Type)

**6.03** The List 1 adapter is also used for this application, but not the plug and connector. Using D inside wire, pick up T, R, and A of the desired line plus the A1 lead and run the IW to the adapter. At the adapter, terminate the IW in the proper order under the same screw terminals as the wafer strip plus the A1 terminal. If more accessible, the leads may be picked up at a distribution point.

#### Ten-Button Desk Set (830-, 2830-Type)

**6.04** Install a List 1 in the same way as for a six-button desk set. However, access is only to the first five lines on the key unless line appearance rearrangements are made at the set or equipment.

#### Ten-Button COM-KEY (832-, 2832-Type)

**6.05** Install the same as for a six-button wall set, except use a List 2 adapter. Any of the seven CO/PBX lines can be connected to the CPE.

*Note:* If the seventh line is used, the wafer strip must be reversed 180° to fit under the screw terminals to allow placement of the cover and to maintain proper polarity.

#### Twenty-Button Desk Set (831-, 2831-Type)

**6.06** Use a List 1 adapter with these sets. The mounting cords and connector cables have two arms each. Where physically possible, one arm of the cord and its mating connector can be connected directly to the adapter. If used this way, only the first five lines in the keys are available and line appearance rearrangement may be required. As an alternate arrangement, the necessary leads can be accessed to a distribution point on the equipment and terminated on the adapter. In this case, do not use the plug and connector on the adapter.

#### Twenty-Button COM-KEY (832-, 2832-Type)

**6.07** Use of the List 2 adapter is limited to the seven CO/PBX lines in either key depending on which arm of the cord and connector cable is used. The adapter is installed in the same manner as for the 20-button desk set.

#### CALL DIRECTOR® (630-, 2630-Type)

**6.08** Access to the desired line must be obtained at the equipment or distribution point using spare leads in the set connector cable and mounting cord. These leads should be terminated on spare terminals in the set and extended to the adapter using D inside wire or an auxiliary cord. The IW or cord is terminated on the screw terminals of a List 1 adapter with the wafer strip.

#### Concentrator CALL DIRECTORS (634-, 2634-Type)

**6.09** If spare leads are available, wire a List 1 adapter as in 6.08; otherwise, the desired leads will have to be accessed at the equipment or the concentrator KTU.

**6.10** Pockets are provided in the cover of the adapter for the inserts used when low profile plugs are encountered.

## 7. MAINTENANCE



*Bell System personnel should not attempt to repair or modify CP conforming answering devices.*

**7.01** When in the repairman's judgment the trouble is located in the CP device, the Repair Service Bureau should be notified so that proper maintenance of service charge billing can be initiated as outlined in BSP 660-101-312 entitled Maintenance of Service Charge on Services With Customer-Provided Equipment (CPE).

**7.02** The customer should be notified of trouble in his equipment in case removal for repair is required, or where CPE is interfering with proper operation of the associated Bell System equipment.

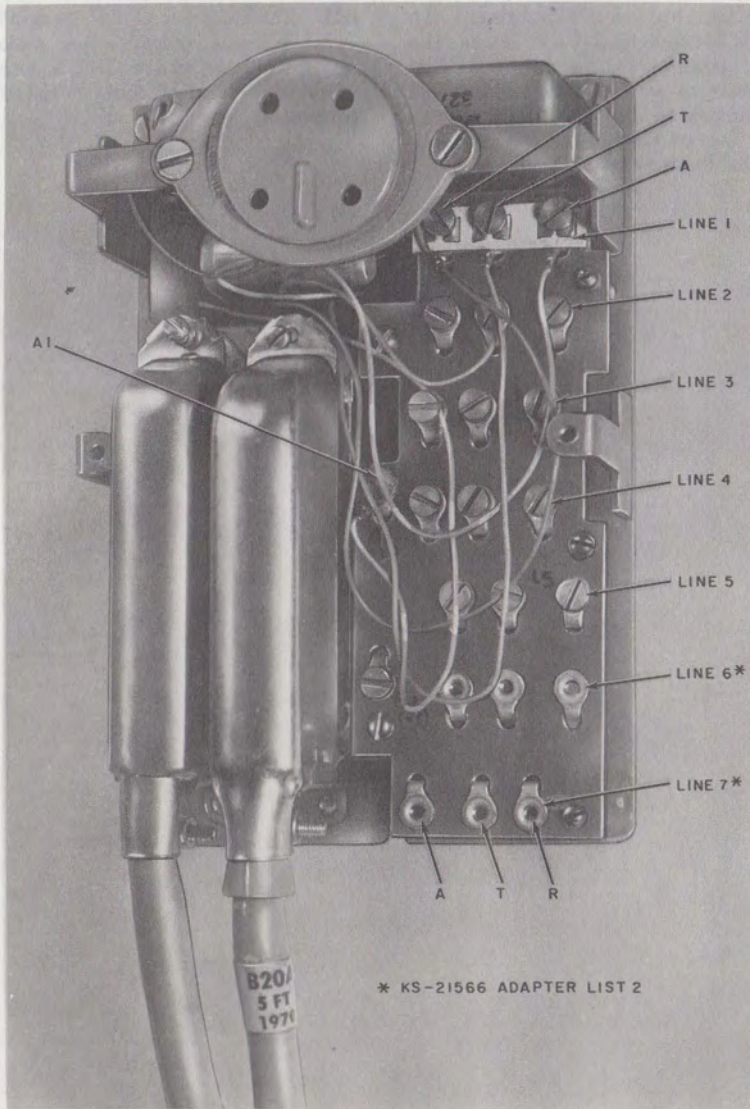


Fig. 1—KS-21566 Adapter