

## REGISTRATION INTERFACE

### BRIDGED SINGLE LINE

### TIP AND RING ARRANGEMENTS

### RJ11C, RJ11W, RJ12C, RJ12W, RJ13C, AND RJ13W

#### 1. GENERAL

**1.01** This section provides information on the standard wiring arrangements to be provided under the Federal Communications Commission (FCC) Registration program.

**1.02** If this section is reissued, the reasons for reissue will be contained in this paragraph.

**1.03** The arrangements in this section provide a termination in a modular jack of a single line. A bridged connection of the tip and ring are always furnished to the customer provided equipment (CPE) on contacts 4 and 3, respectively. In addition, where required in a Key Telephone System (KTS), A and A1 leads are also furnished. The CPE must terminate in a modular plug for compatibility. Where A and A1 are not furnished, contacts 2 and 5 are reserved for telephone company use. Disposition of these leads should be per local instructions.

**Note:** Circuit incompatibility may occur involving the spare leads if a change of service is installed, ie, a line with A lead control installed originally would not be compatible with a subsequent installation of 2-line service. Whenever service is altered at an installation involving registration USOC codes, check that all appearances are properly wired.

**1.04** Unless otherwise specifically required by a particular wiring arrangement, access to the required leads can be at any access point. If installed in a large key system with color-keyed backboards, the auxiliary (yellow) field should be used; otherwise, access at satellite closets, distribution boxes, connecting blocks, etc.

**1.05** When necessary to access leads in COM KEY\* installations, wire as follows:

(1) COM KEY 416—Tip and ring ahead of the line circuit can be obtained only at the 91A connecting block for the primary station. A and A1 will require use of a KS-19252 adapter in the cabling loop. A short length of connector cable must be plugged into the adapter and the raw end terminated on a 66-type connecting block. The required leads are then accessed on the connecting block. Where T, R, A, and A1 are required behind the line circuit, the KS-19252 adapter and short connector cable are again used but all leads are accessed on the 66-type connecting block. Refer to Section 518-450-105 for information on COM KEY 416.

(2) COM KEY 718—Tip and ring ahead of the line circuit can be obtained at the incoming CO/PBX line terminations on block 3 using 183B adapters. If T, R, A, or A1 are required behind the line circuit, they can be accessed per line at any of the line appearances of the station terminations on blocks 3, 4, or 5. Again use 183B adapters. For information on COM KEY 718, refer to Section 518-450-100.

(3) COM KEY 1434—Tip and ring ahead of the line circuit can be accessed at the incoming line terminations on block 7 using 183B adapters. T and R behind the line circuit and A and A1 for a particular line can be accessed at any of the line appearances of the station terminations on blocks 6 through 15 using 183B adapters. For information on COM KEY 1434, refer to Section 518-450-102.

(4) COM KEY 2152—Tip and ring ahead of the line circuit can be accessed on block 3 of

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the 100A1 or 101A1 connecting unit. T and R behind the line circuit and A and A1 are accessed per line on the station cutdown blocks of the connecting units. Use 183B2 adapters to provide termination. For information on COM KEY 2152, refer to Section 518-450-110.

\*Trademark

**1.06** These arrangements use a standard modular type connecting block (Fig. 1 and 2) as the interface with the CPE as follows:

- For surface-mounted installations (RJ11C, RJ12C, RJ13C)—use 625A, 625C, 625S\*, or 625T\* connecting block.
- For flush-mounted installations (RJ11C, RJ12C, RJ13C)—use 625B or 625F connecting block.
- For wall telephone set installations (RJ11W, RJ12W, RJ13W)—use 630A connecting block.

\*The 625S and 625T connecting blocks have spring-loaded covers which protect the contacts from contamination. Not available until the 3rd quarter of 1976.

## 2. DESCRIPTION

**2.01 USOC RJ11C:** Provides a bridged connection of the tip and ring only of a single line to the CPE (Fig. 3). Used where customer requires a surface or flush-mounted installation. Requires installation of a 625-type connecting block at location of connection to CPE. Connection to tip and ring can be at any convenient access point. Typical CPE is single line nonkey extensions or ancillary devices.

**2.02 USOC RJ11W:** Same as RJ11C but installed at wall telephone set installations using 630A connecting block (Fig. 3).

**2.03 USOC RJ12C:** Provides a bridged connection of a single tip and ring with A lead control (Fig. 4). Tip and ring are bridged *ahead* of the line circuit because the registered equipment requires CO/PBX ringing. A and A1 are obtained behind the line circuit. T, R, A, and A1 are supplied to the CPE at a surface or flush-mount installation using a 625-type connecting block. Connection to the required leads must be

made at the KTS multiple for proper access. Typically used for connecting nonkey extension telephone sets or ancillary equipment requiring A lead control where the CPE is not compatible with tip and ring behind the line circuit.

**2.04 USOC RJ12W:** Same as RJ12C except requires installation of a 630A connecting block for wall telephone set installations (Fig. 4).

**2.05 USOC RJ13C:** Provides a bridged connection of the tip and ring *behind* the KTS line circuit with A lead control to the CPE (Fig. 5). Connection to the leads is made anywhere access to T, R, A, and A1 leads can be obtained, such as the KTS, distribution field, connecting blocks, etc. Uses a 625-type connecting block for surface or flush-mounted installations. Primarily used for connecting nonkey extension telephone sets or ancillary devices with A lead control where the registered CPE is located near the key set.

**2.06 USOC RJ13W:** Same as RJ13C except installed at wall-type installations using a 630A connecting block.

## 3. MAINTENANCE

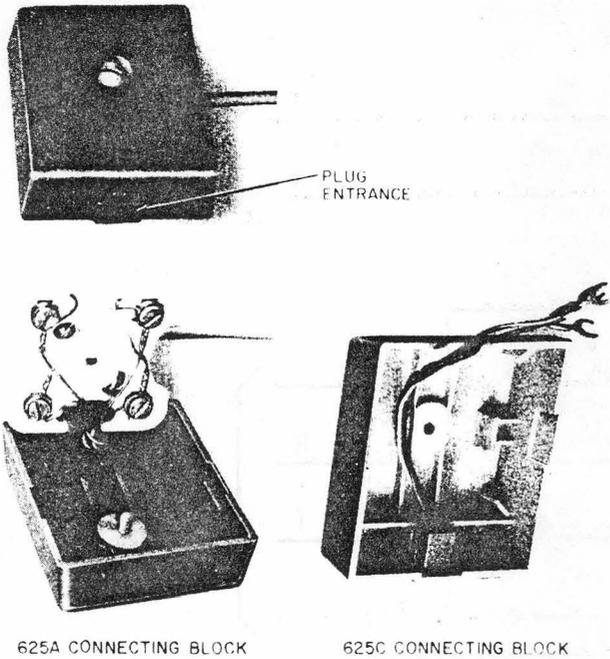
**3.01** Maintenance of the wiring arrangements covered in this section is limited to:

- Verification of the telephone company wiring and equipment
- Assurance that the required leads are supplied in the interface used for CPE connection.

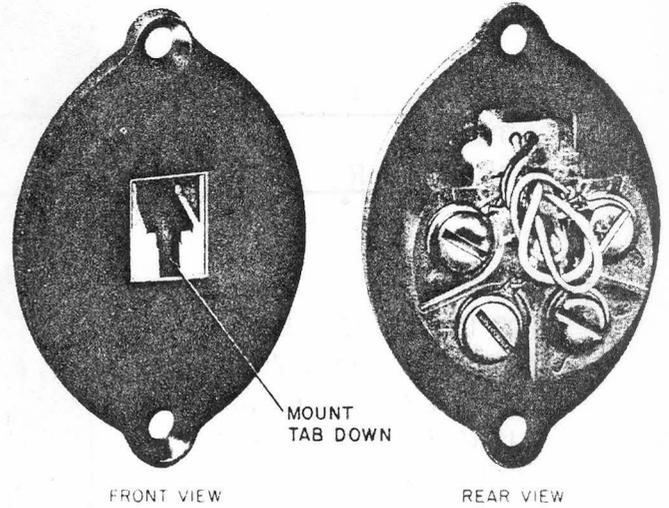
No attempt should be made to test, modify, or repair customer-owned and maintained equipment.

**3.02** When in the judgment of repair personnel the trouble is located in the CPE, the Repair Service Bureau should be notified so that proper Maintenance of Service Billing can be initiated as required and as outlined in the following:

- Section 660-101-312, Maintenance of Service Charge on Service With Customer-Provided Equipment (CPE)
- Section 660-101-318, Tariff and Registration Violation Notice Procedures.



**Fig. 1—625A and 625C Connecting Block**



- 4 CONTACTS
- FLUSH MOUNTED:  
 USING 63A OR KS-20502, L2 BRACKET  
 AND 16A FACEPLATE OR IN STANDARD  
 ELECTRICAL OUTLET BOX USING 43B  
 BRACKET OR IN WOODWORK USING  
 1-1/4 INCH HOLE
- MATES WITH D4BU MOUNTING CORD PLUG
- MOUNTING SCREWS SUPPLIED
- FOR NEW INSTALLATIONS OR MODULAR  
 REPLACEMENT OF 548-TYPE JACKS

**Fig. 2—625F Connecting Block**

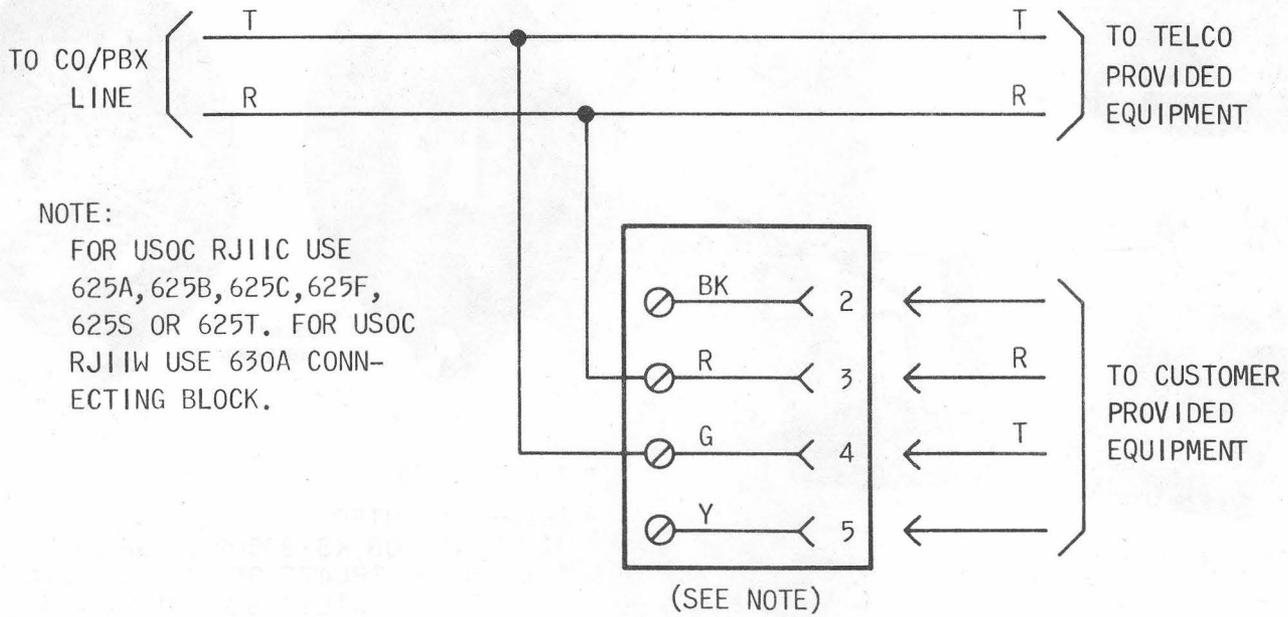
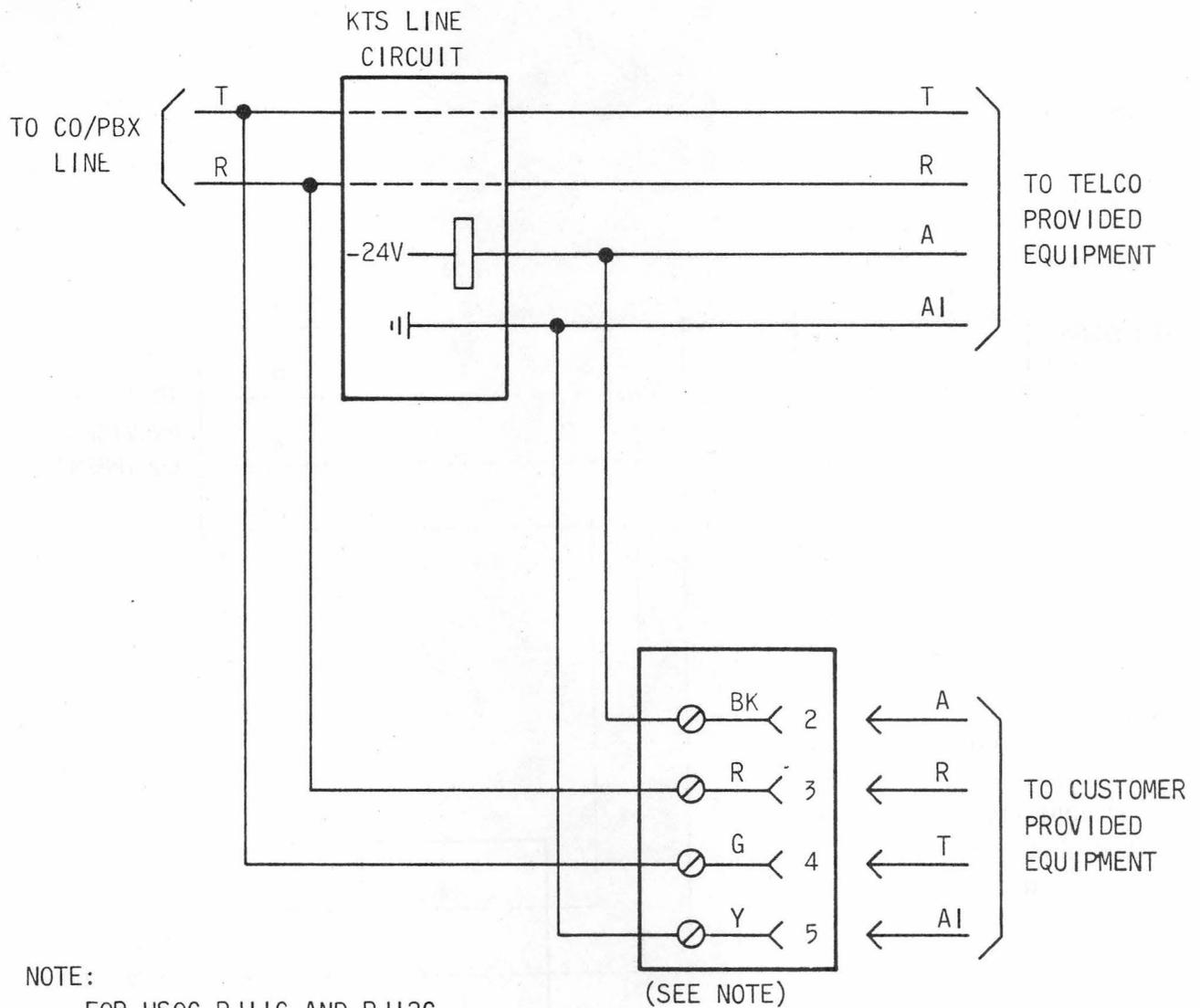


Fig. 3—Connections for USOC RJ11C and RJ11W—Bridged Tip and Ring



**Fig. 4—Connections for USOC RJ12C and RJ12W—Bridged Tip and Ring Ahead of Line Circuit With A Lead Control**

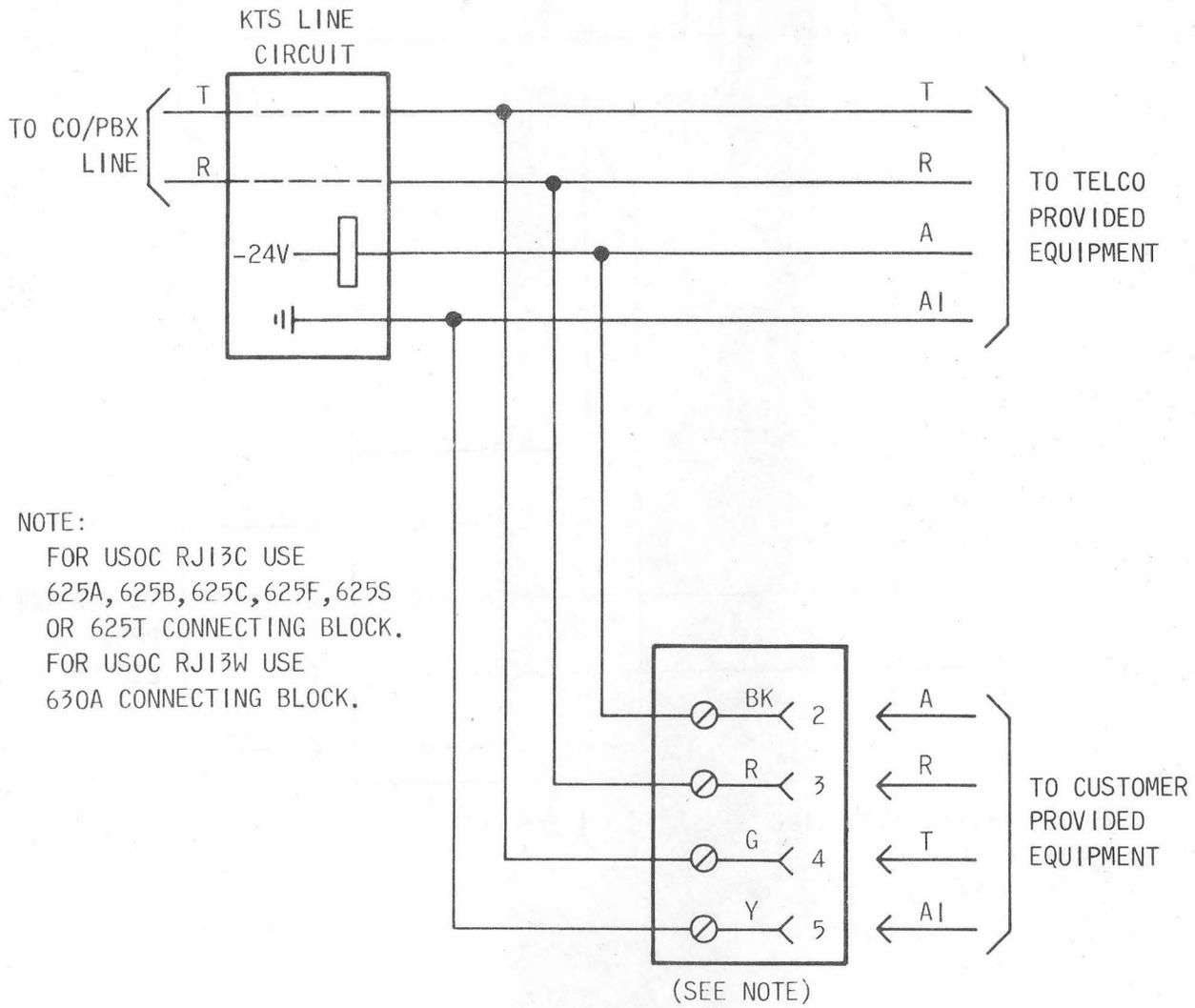


Fig. 5—Connections for USOC RJ13C and RJ13W—Bridged Tip and Ring Behind Line Circuit With A Lead Control