

Station, PBX and Common Systems - 34A KTU and Trunk Make-Busy Control Key Arrangements

## AMERICAN TELEPHONE AND TELEGRAPH COMPANY

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Supplements P.E.L. 7037

Topical Index Code 1C1.8

1C1.15A

1C1.17A

1B8

P.E.L. 7037 discussed various Trunk Make-Busy Arrangements being standardized for use as necessary in the control of one or two-way trunk groups to PBX, Key Telephone or Order Turret equipments for efficient traffic regulation during off-hour periods.

This memorandum provides supplementing information on the 34A Key Telephone Unit and remote control key arrangements developed to activate and retire the trunk make-busy condition. *Non-stock P.N.X.*

The 34A KTU is a double-width angle bracket type key telephone unit which can be mounted in a 105-type Apparatus Box (or on relay rack, or in equipment cabinets - using a P37B204 Bracket) etc. The KTU features a nine point (double screw) terminal panel and local wiring connecting to an AJ 50 relay mounted on the unit. *Non-stock P.N.X.*

As shown in Fig. 2 of SD-69419-01, the relay is operated by a momentary ground applied from a remotely located (3-position rotatable non-locking) control key (Fig. 1). The relay locks up through its own contacts to hold the "make-busy" condition until released (its windings short-circuited) when the distant control key is momentarily rotated in an opposite direction.

Provisions are also made for activating a separate lamp signal to signify when the make-busy condition is in effect.

Drawing SD-69419-01 is being reissued to correct discrepancies noted in the schematic depiction of the Fig. 1 non-locking key contacts as well as Note 202 references to a "255A Key Mounting," which should properly read 255A Jack Mounting.

The 255A Jack Mounting (normally used for operator's headset jack terminations on P.B.X switchboards) is used in SD-69419-01 as an illustrative "universal"

means for containing in one small housing both the 3-position non-locking control key as well as a 47B Lamp Socket (with No. 2 or 72-type Lamp Cap, as desired). There is no reason why these or equivalent key and/or lamp signaling components could not be supplied differently - as the situation dictates.

When next reissued, CD-69419-01 will include reference to the various connecting circuits with which the make-busy control key can be associated, viz: SD-21842-01 (Panel, ground and/or battery cutoff); SD-25276-01 (No. 1 crossbar); SD-25668-01\* (No. 5 crossbar); SD-32337-01 (Step-by-Step) and Common Systems drawing, SD-96448-01.

S.O.M. Section C71.336.22 provides connecting information of the control key arrangements for use by the Plant craftsman.

The Western Electric Company advises that the 34A Key Telephone Unit is now available from factory stock at an approximate price of \$5.15 each on orders worded as follows:

(Quantity) Unit, Telephone, Key, 34A

→ 255A JACK BOX - NO

\*Refer P.E.L. 7037

Yours very truly,

*R. F. Davis*

Customer Telephone Products Planning Engineer

To all Chief Engineers  
(Copies included for  
General Plant and Traffic  
Managers)