

SEE ADDENDUM

## REFERENCE

### 1A1 KEY TELEPHONE SYSTEM

### PACKAGED KEY TELEPHONE UNITS

#### 1. GENERAL

**1.01** This section combines identification information for the 200F (MD), 200G (MD), 200H, and 200K (MD) packaged KTUs formerly contained in Sections 518-210-100, 518-210-400, 518-210-401, 518-210-402, and 518-210-403, which are hereby canceled.

#### 2. IDENTIFICATION

**2.01** The 200F, G, and K packages provide the basic requirements for 1A1 and 6A (selector only) Key Telephone System installations. The 200H packaged units provide for the 2-talking link 6A Key Telephone System.

**2.02** The basic differences in these packages are the capacities of the apparatus mountings. The 200F, G, and K packages are equipped with a 232B KTU with a KS-15900 List 1 interrupter, which provides for flashing and winking lamps, interrupted audible signal, time-out, and manual intercom.

**2.03** A 232A (MD) or 232B KTU is furnished with each 200H-type KTU, but the KS-15900, List 1 or KS-19384, List 2 interrupter is not furnished, and if required must be ordered separately. All leads associated with the 232-type KTU are accessible at the terminal panel when a 64B1-100 cable terminal is provided.

**2.04** The dc and ac power supply may be provided by a J86471B, List 1 power unit. Direct current, 20 to 26 volts, may be supplied from local or building battery. Power supply for lamps may be supplied by a 393A (MD) or 393B transformer; ringing supply may be over a pair of leads from CO, PBX, or J86731C, List 1 power plant [107C (MD) or 107D frequency generator].

**2.05** When the 200F, G, H, and K-type KTUs are used in conjunction with other key

systems, the J86731B, List 1 power plant may be required for the lamp supply. This is provided with the 200K-type KTU only, and must be ordered separately for the 200F, G, and H type KTU's. The 10-volt capacity of the power plant is four hundred twenty-five 51A lamps.

**2.06** The 29C1 or 30C1 power units may also be used to furnish power for the 200H KTU. For information covering their use refer to 167 Division.

**2.07** Fuse requirements for the 200H KTU are as follows:

DESIG	AMP	POTENTIAL FUSED	QUANTITY
		VOLTS	
A Bat.	2	-20 to -26 tlk bat.	One per system
B Bat.	2	-20 to -26 sig bat.	

**2.08** When one or more telephone stations associated with these packaged KTUs are equipped with a TOUCH-TONE<sup>®</sup> dial, a 247A (MD) or 247B KTU must be ordered separately and mounted externally to the apparatus mounting if space is not available.

#### Ordering Guide

**2.09** A description of the KTU ordering codes, service and features, apparatus mountings, and cable terminals is shown in Table A.

**2.10** When the 64A1-50 cable terminal is equipped with a 15-foot tail, designation strips preprinted with the feature layout for 200F- and 200K-type KTUs are furnished. Two additional blank strips are furnished for field changes.

**TABLE A**  
**1A1 PACKAGED KEY TELEPHONE UNITS**

KEY UNIT CODES (SEE NOTE)	KEY TELEPHONE UNITS AND SERVICE FEATURES								APPARATUS MOUNTING	CABLE TERMINAL (PROVIDED WHEN LETTER C IS ADDED TO CODE) (SEE NOTE)		
	230A OR B KTU PICKUP AND HOLD 4 CO OR PBX LINE	202C OR D KTU PICKUP AND HOLD 1 CO OR PBX LINE	232A OR B WITH KS-15900, LIST 1 INTERRUPTER, FLASH, WINK, TIME-OUT, AND MAN. INTERCOM	207C 9-STA DIAL SELECTIVE INTERCOM	222A KTU	223A KTU	224A (MD) OR B KTU	216A KTU				
200F4	1		1						31A apparatus mounting 116A cover 173B back-board	64A1-50 cable terminal (1-GC52 terminal box 2-31D connecting blocks, 50-pr cable, with 8-ft tail)		
200F4D	1		1	1								
200F5 (Fig. 1)	1	1	1									
200F6	1	2	1						26A apparatus mounting	64B1-75 cable terminal (1-terminal plate assembly per ED-69366-50, group 3, 75-pr cable with 8-ft tail)		
200G4	1		1									
200G4D	1		1	1								
200G5	1	1	1									
200G5D	1	1	1	1								
200G6	1	2	1									
200G6D	1	2	1	1								
200G7	1	3	1									
200G7D	1	4	1	1								
200G8 (Fig. 2)	2											
	1	4	1									
200G9	2	1										
	1	5	1									
200K4 (Fig. 4)	1		1								16A apparatus mounting 117A cover	64A1-50 cable terminal (1-GC52 terminal box, 2-31D connecting blocks, 50-pr cable with 8-ft tail)
200K4D	1		1	1								
200K5	1	1	1									
200K5D	1	1	1	1								
200K6	1	2	1									
200K6D	1	2	1	1								
200K7	1	3	1									
200K7D	1	3	1	1								
200H15D (Fig. 3)			1*	1	1	2	1	1	26A apparatus mounting	64B1-100 cable terminal (1-terminal plate assembly per ED-69366-50, group 3, 100-pr cable with 15-ft tail)		
200H18D			1*	1	1	3	1	1				

\* The KS-15900, List 1 interrupter must be ordered separately.

200K-type KTUs are furnished with the J86731, List 1 power plant.

Note: The 200F, 200G, and 200K KTUs and the 64A1-50 terminal box are rated (MD).

**2.11** These pressure-sensitive tapes are designated as:

- Forms E-4842 and E-4843 which consist of two dual strips preprinted to conform to the layout of the 200F- and 200K-type KTUs, respectively
- Form E-4848 which consist of four blank strips to be marked as necessary to fit the need.

#### DESIGN FEATURES

**2.12** *200F-Type KTU* (Fig. 1) provides:

- Pickup and hold on four to six CO or PBX lines, or
- Pickup and hold on four CO or PBX Lines with a 9-station dial selective intercom circuit.

Fig. 5 shows the arrangement, coding (without cable terminal), and KTUs used in the 200F-type KTU.

**2.13** *200G-Type KTU* (Fig. 2) provides:

- Pickup and hold on four to nine CO or PBX Lines, or
- Pickup and hold on four to eight CO or PBX Lines with 9-station dial selective intercom circuit.

Fig. 6 shows the arrangement, coding (without cable terminal), and KTUs used in the 200G-type KTU.

**2.14** *200H-Type KTU* (Fig. 3) provides:

- Intercommunication facilities for a maximum of 18 codes
- A primary and secondary talking link which enables a system to carry two simultaneous and independent conversations.
- Camp-on. The 224B KTU permits the camp-on station to cut through when the primary or secondary link becomes available.
- A busy tone to the station originating camp-on and to any other stations which may try to originate a call after the system has been camped on.
- Automatic cutoff.

Fig. 7 shows the arrangement, coding (without cable terminals), and KTUs used in the 200H-type KTU.

**2.15** *200K-Type KTU* (Fig. 4) provides:

- Pickup and hold on four to seven CO or PBX Lines with or without a 9-station dial selective intercom circuit
- J86731D, List 1 Power Plant

Fig. 8 shows the arrangement, coding (without cable terminal), and KTUs used in the 200K-type KTU.

**2.16** Refer to Division 518, sections entitled "Service, 1A1, 200F, G, and K Packaged Units" and "Service, 1A1, 200H Packaged Units" for connections.

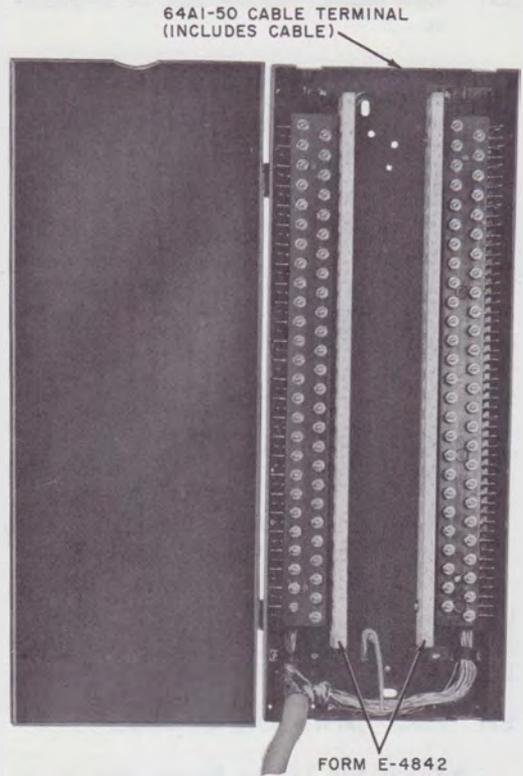
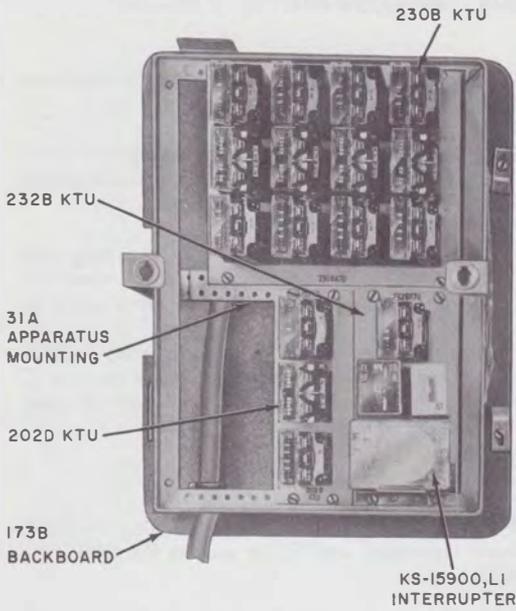


Fig. 1—200F5C KTU (Without Cover)

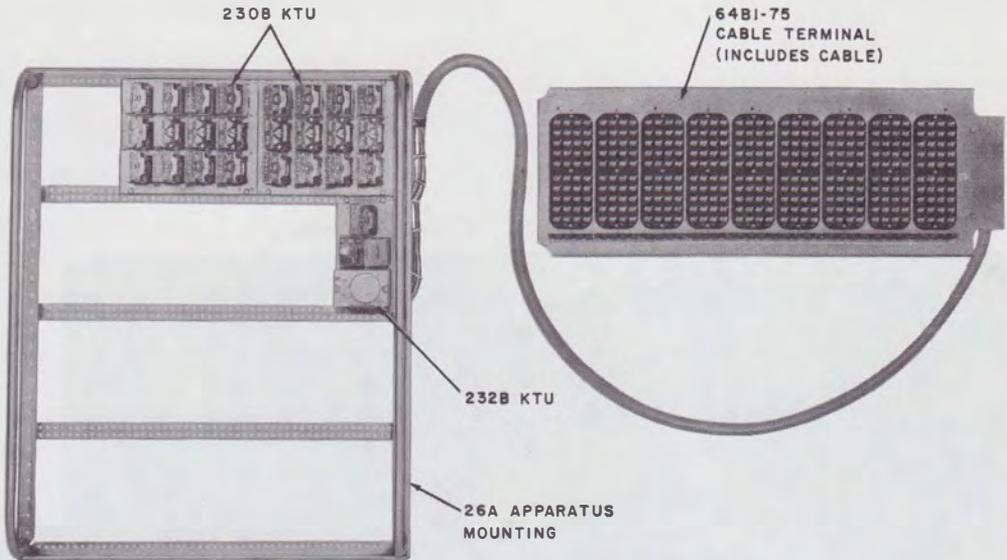


Fig. 2—200G8C KTU

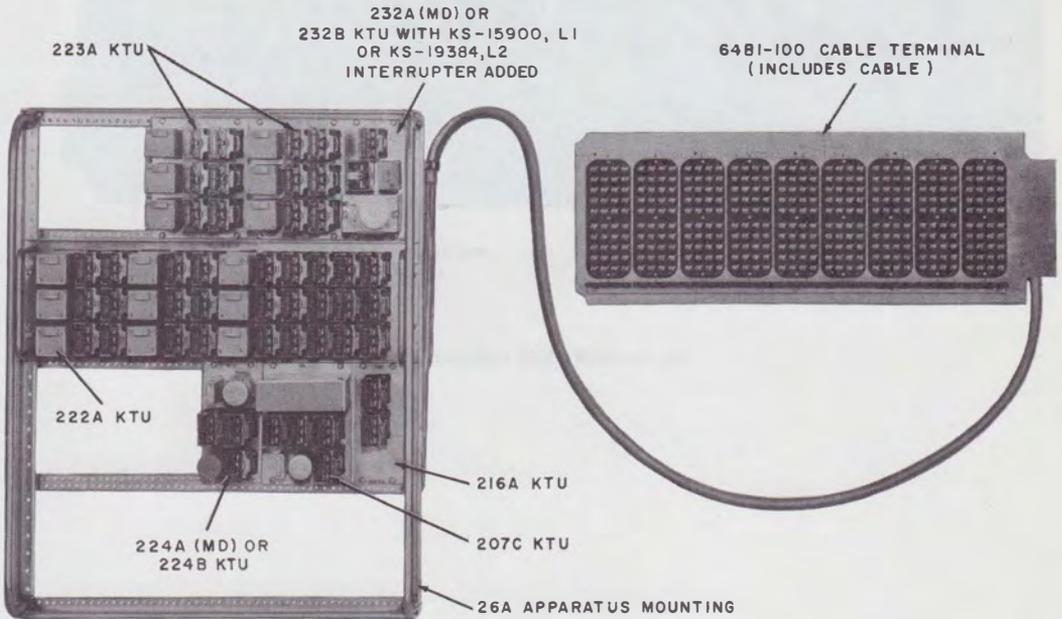


Fig. 3—200H15DC KTU

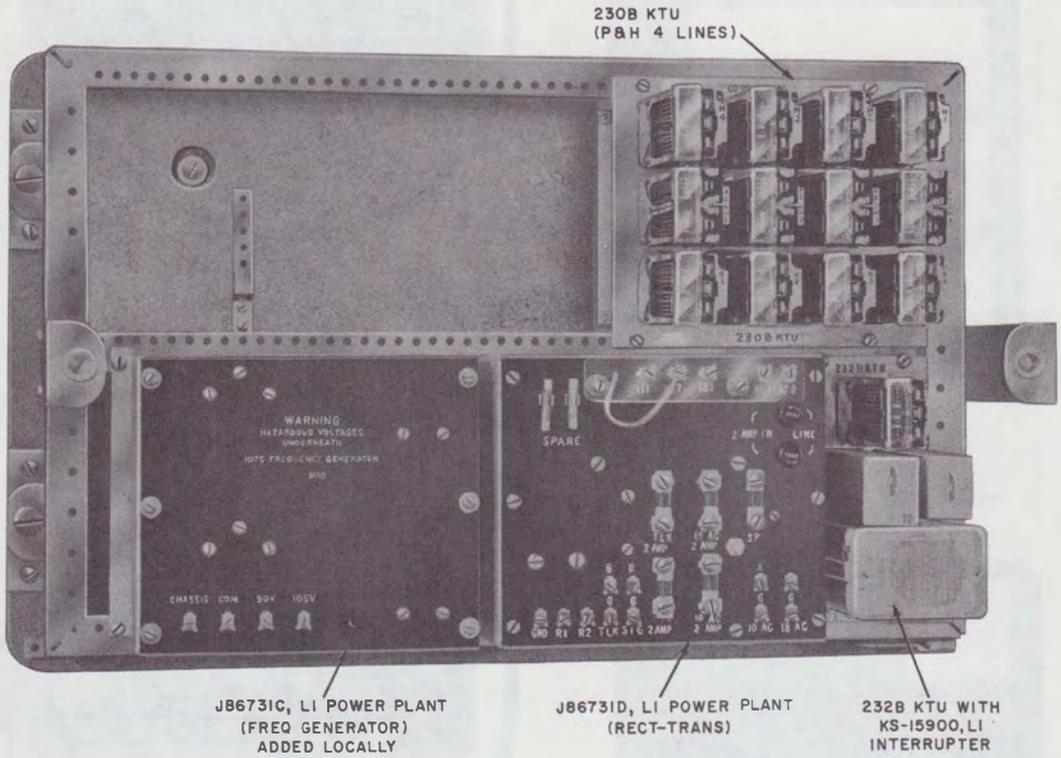


Fig. 4—200K4 KTU (Without Cover)

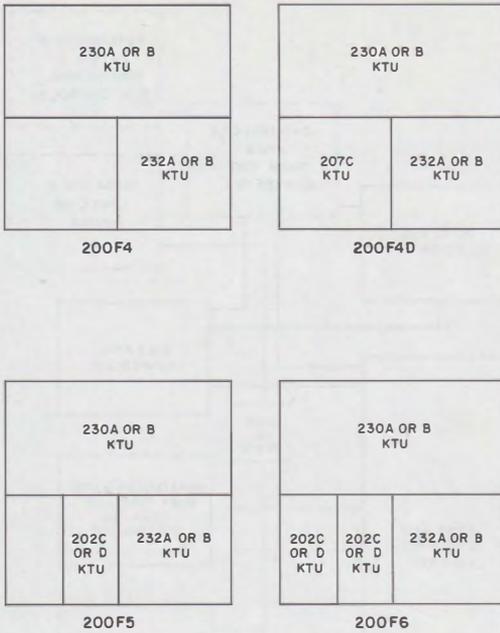


Fig. 5—200F-Type KTU, Arrangements

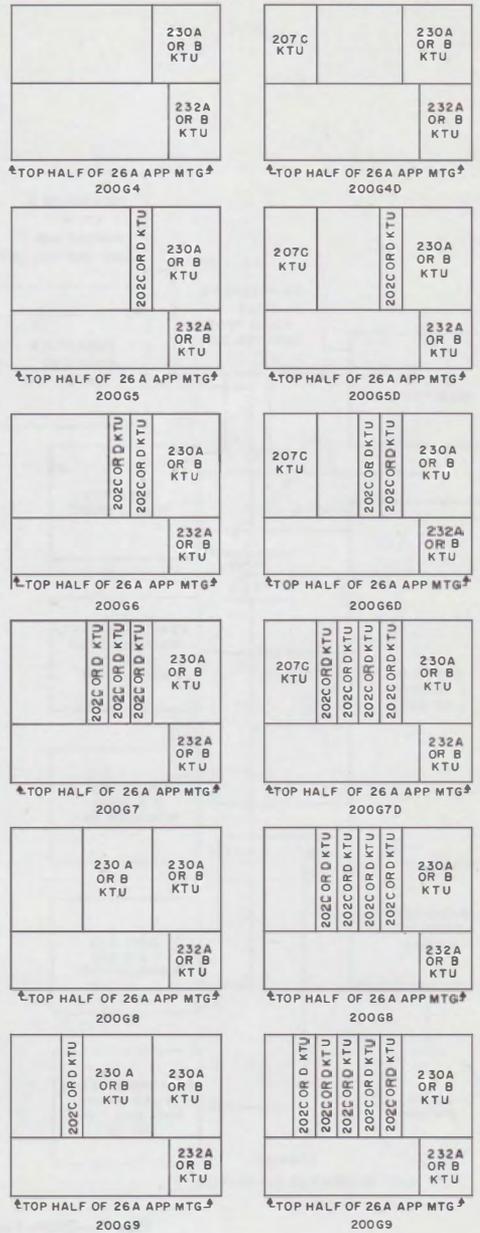


Fig. 6—200G-Type KTU, Arrangements

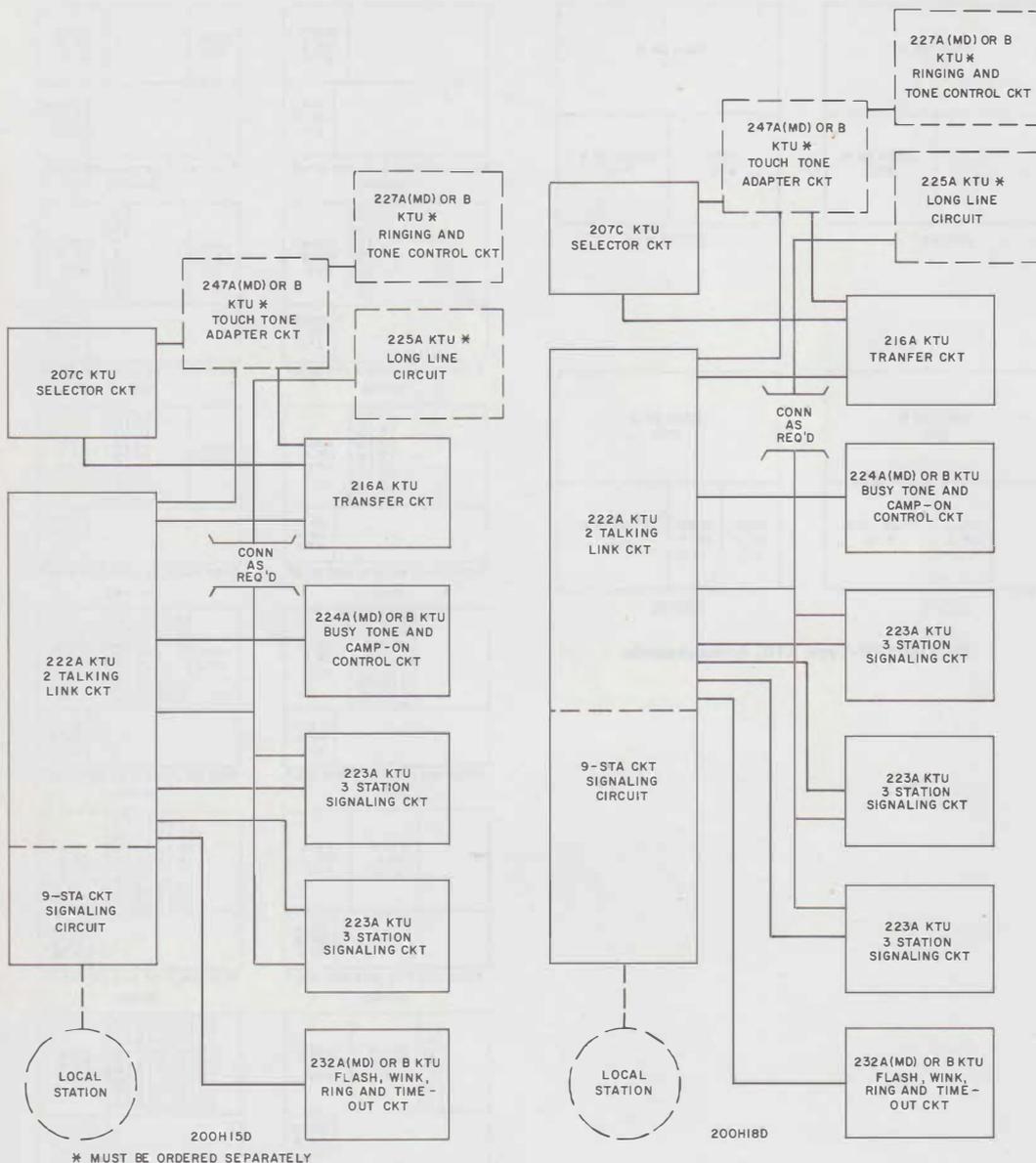


Fig. 7—200H-Type KTU, Arrangements

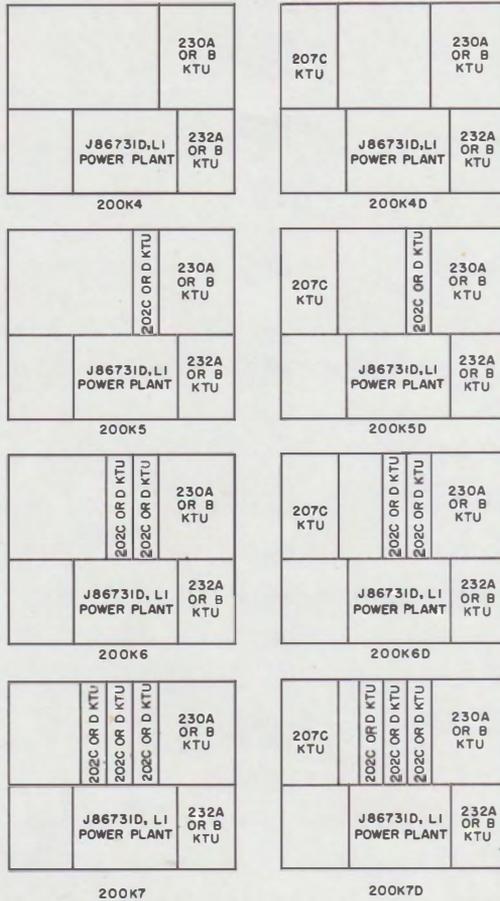


Fig. 8—200K-Type KTU, Arrangements

**REPLACING PAGE ADDENDUM**

**Filing Instructions:**

1. REMOVE FROM THE SECTION THE PAGES NUMBERED THE SAME AS THOSE ATTACHED TO THIS PINK SHEET.
2. INSERT THE ATTACHED PAGES INTO THE SECTION IN THEIR PLACE.
3. PLACE THIS PINK SHEET AHEAD OF PAGE 1 OF THE SECTION.

**ADDENDUM 518-114-115**  
Issue 1, May 1971

**REFERENCE**

**1A1 KEY TELEPHONE SYSTEM  
PACKAGED KEY TELEPHONE UNITS**

**1. GENERAL**

**1.001** This addendum supplements Section 518-114-115, Issue 1. The attached pages must be inserted in the section in accordance with filing instructions above.

**1.002** This addendum is issued to correct connection points of the 225A KTU in the block diagram on Fig. 7.

**Attached:**

**Page 7 dated May 1971, reissued**

**Page 8 dated May 1971, revised**

**2. IDENTIFICATION**

The following change applies to Part 2 of the section:

- (a) Fig. 7—revised