

**SERVICE**  
**1A2 KEY TELEPHONE SYSTEM**  
**69B, D, AND G APPARATUS MOUNTINGS**

**1. GENERAL**

**1.001** This addendum supplements Section 518-215-420, Issue 5. Place these pink sheets ahead of Page 1 of the section.

**1.002** This addendum is issued to add information on the following KTUs:

- 400H KTU (CO/PBX Line Circuit)
- 471A KTU (Battery Reversal Toll Restriction Circuit)
- 498A KTU (Music-On-Hold Circuit) and 116A1 Circuit Module.

**2. CHANGES TO SECTION**

**2.001** On Page 1, paragraph 1.03, add the following to the list of drawings:

SD-69942, Issue 1—400H KTU  
SD-69922, Issue 1—498A KTU.

**2.002** On Page 3, Table A is revised to show the addition of the 498A KTU and include remarks on the 400H KTU. A revised Table A is shown in this addendum.

**2.003** On Page 6, add the following illustrations, in numerical sequence, to the CONNECTION INDEX:

Fig. 9.1—400H KTU (CO or PBX Line Circuit) in 69B or 69D Apparatus Mounting

Fig. 35.1—498A KTU (Music-On-Hold Circuit) Equipped With a 116A1 Circuit Module in 69D Apparatus Mounting.

**2.004** On Page 16, add Fig. 9.1.

**2.005** On Page 41, Fig. 34 is obsolete. A new Fig. 34 is shown in this addendum.

**2.006** On Page 42, add Fig. 35.1.

**NOTICE**

Not for use or disclosure outside the  
Bell System except under written agreement

♦TABLE A♦

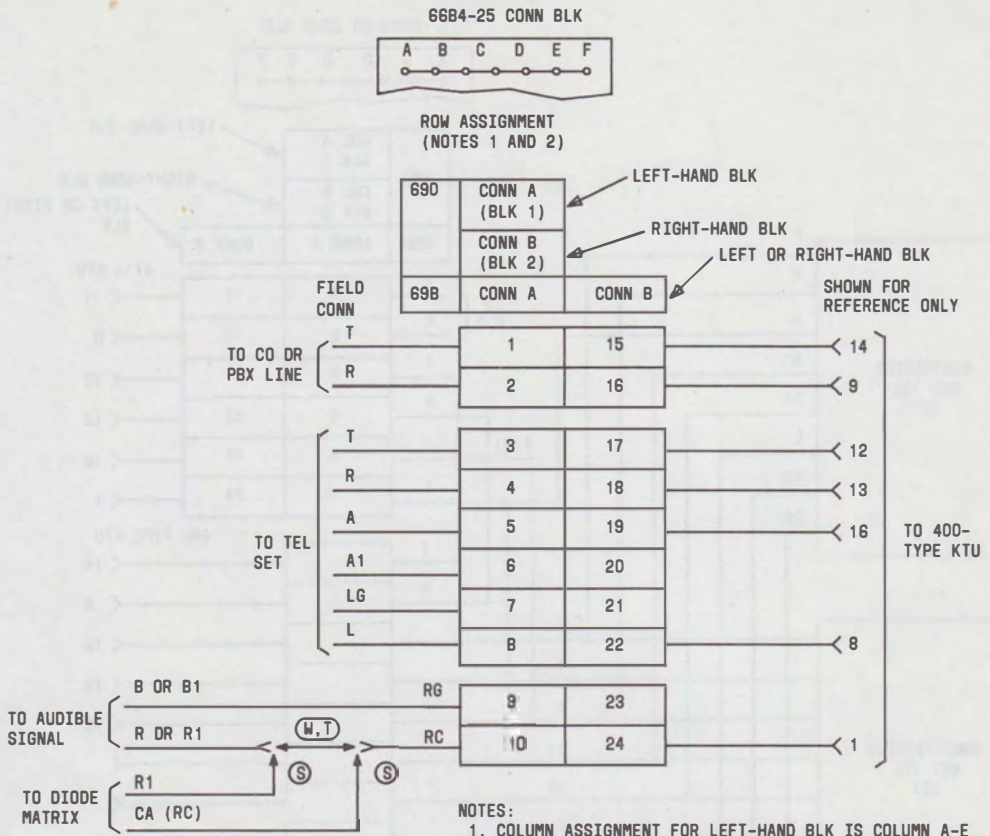
ARRANGEMENT OF 400 SERIES KTUs IN 69-TYPE APPARATUS MOUNTINGS

KTU	FUNCTION	SIZE (IN.)	PINS	APPARATUS MOUNTING			REMARKS
				69B	69D	69G	
400-Type	CO or PBX Line Circuit	4	18	●	●	*	When the 417A, 420A, or 421A KTU is used in the 69-type apparatus mountings, the cable run from the apparatus mounting to the connecting block should be as short as possible, preferably not longer than 10 feet to reduce the possibility of noise pickup on unpaired leads.
401A	Manual Intercom Line Ckt	4	18	●	●	*	
407B (MD) or 407C	Dial Intercom 10-Code Selector Circuit	8	80	*	*	●	
413A	Auxiliary Ringup Circuit	4	18	●	●	*	
414A	Manual Signaling, Ringdown Private Line Circuit	4	20	●	●	*	
415A	Automatic DC Signaling, Private Line Circuit	4	18	●	●	*	
416A	Station Line Circuit	4	20	●	●	*	
417A	Add-on Conference Ckt	4	40	*	●	*	
418A	Short Range, DC Signaling, Private Line Circuit	4	20	●	●	*	
419A	Automatic Signaling, Ringdown Private Line Circuit	8	80	●	●	*	
420A	Long Line Circuit	4	18	●	●	*	When a 400H KTU is used as a line circuit and line will be equipped with music-on-hold, a 498A KTU must be used for music-on-hold as the 400H is not compatible with 451-type KTUs.  <i>Note:</i> <b>WORKING LIMITS:</b> The maximum permissible length of cable run for the lamp feeder pairs (10V±, LW, LF) is determined by the lamp load. For a load of 20 lamps, the run from apparatus mounting to power supply shall be a maximum of 30 feet. For lesser loads, the length of run may be increased proportionately.
421A	Power Failure Transfer Ckt, General Purpose Relay or Audible Signal Suppressor	4	4G	†	●	*	
422B	Station Busy Selector Ckt	4	40	*	●	*	
423A	Dial Tone, Busy Tone, and Audible Ringback Tone Ckt	4	20	●	●	*	
424A (MD), 424B (MD), or 424C	Dial Intercom 19-Code Selector Circuit	8	80	*	*	●	
425A (MD) or 425B	Flashing Lamp Circuit	8	80	*	*	●	
426A	TOUCH-TONE Adapter Ckt	8	80	*	●	*	
427B (MD) (Series 4) or 427C		8	80	*	●	*	
428A	Multiline Exclusion Ckt	4	40	*	●	*	
429A (MD) or 429B	Supplementary Hold Detector Circuit	4	40	*	●	*	
430A	Flutter Generator Circuit	4	20	●	●	*	
448A	Variable Delay-Timer Circuit	4	40	*	●	*	
449A	Immediate Transfer Cont Ckt	4	40	*	●	*	
461A	Manual Signaling, Ringdown Private Line Circuit	4	20	●	●	*	
467A	Voltage Monitor Circuit	4	18	●	●	*	
469A	Lamp Extender Circuit	4	18	●	●	*	
470A	External Signaling Circuit	4	12	*	●	*	
471A	Bat. Reversal Toll Rstcn Ckt	4	18	●	●	*	
479A	Rot. Dial Toll Rstcn Ckt	8	20	*	●	*	
498A	Music-On-Hold Circuit	4	40	*	●	*	

\* Not usable.

● Usable.

† Restricted to transfer of one station ringer.



- NOTES:
1. COLUMN ASSIGNMENT FOR LEFT-HAND BLK IS COLUMN A-E AND FOR RIGHT-HAND BLK IS COLUMN F-B. SEE BLOCK DIAGRAM COVERING THE 6684-25 CONN BLK IN FIG. 4 OR 5.
  2. TERMINATE DEDICATED LEADS PER FIG. 7.

OPTIONS

OPT	FEATURES	
T*	CO OR PBX LINE CIRCUIT	
W*	INTERRUPTED RING	
V	AUDIBLE SIGNAL	COMMON AUDIBLE WITH GROUND FOR RELAY CONTROL
S*	HOLD CIRCUIT RELEASE	LONG HOLD ABANDON TIMEOUT (FOR ESS #1, ESS #2, 812 PBX, 770 PBX, DIMENSION PBX)
R		SHORT HOLD ABANDON (FOR ALL OTHERS)

\* FACTORY INSTALLED

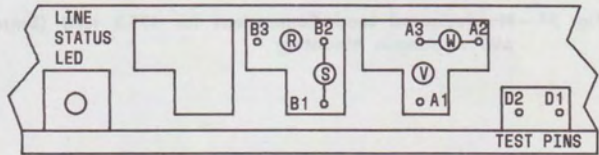


Fig. 9.1—Nondedicated Lead Connections for 400H KTU (CO or PBX Line Circuit) in 69B or 69D Apparatus Mounting

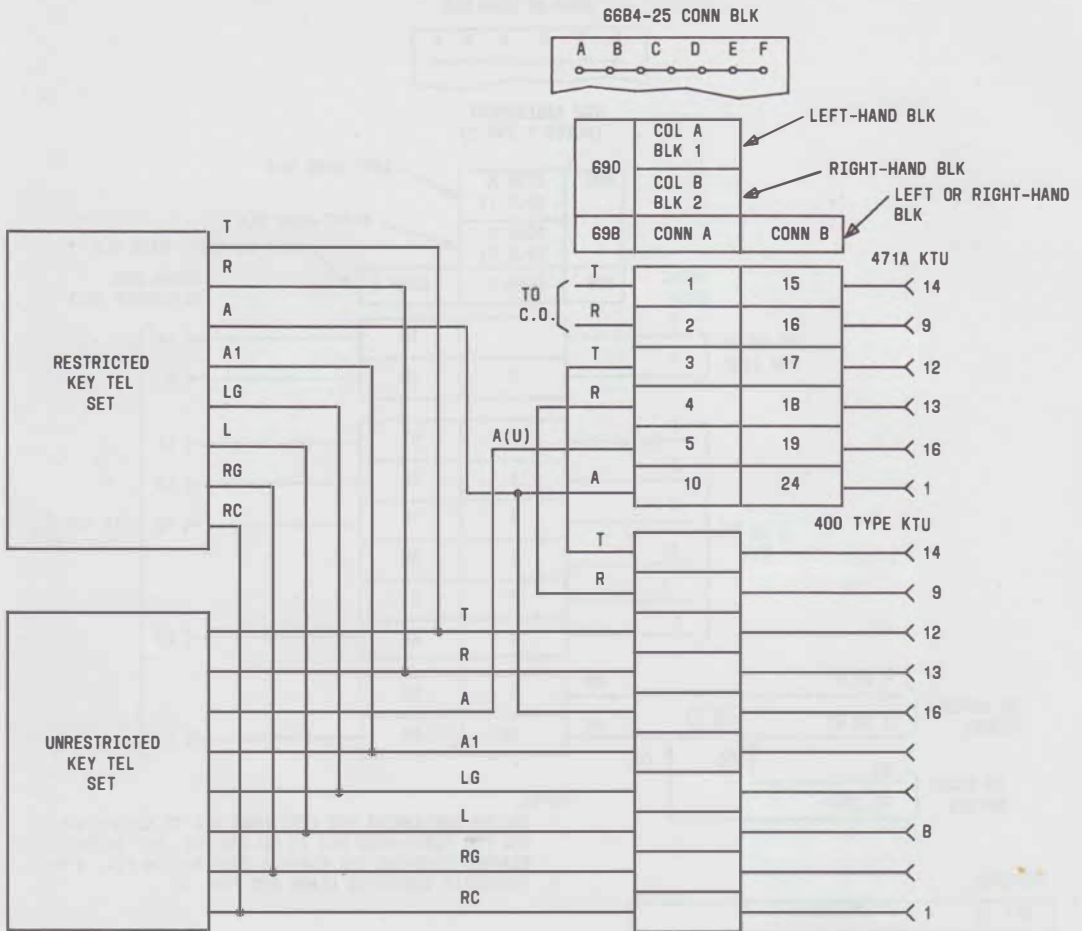
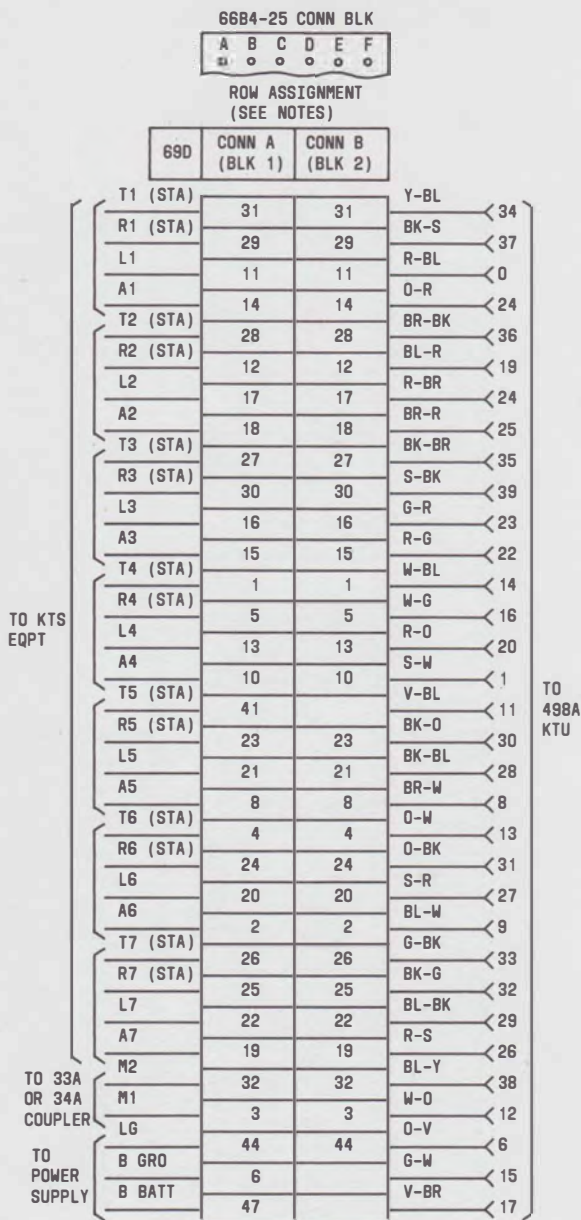


Fig. 34—Nondedicated Lead Connections for 471A KTU (Battery Reversal Toll Restriction Circuit) in 69B or 69D Apparatus Mounting





## NOTES:

1. COLUMN ASSIGNMENT FOR LEFT HAND BLK IS COLUMN A-E AND FOR RIGHT HAND BLK IS B-F. SEE BLK DIAGRAM COVERING 6684-25 CONN 8LK IN FIGS. 4 OR 5.
2. IF A 498A EQUIPPED WITH A 116A1 CM IS INSTALLED IN CONNECTOR A, A SECOND KTU REQUIRING THE RN LEAD CANNOT BE USED IN CONNECTOR B. IF A SECOND 498A IS USED IN CONNECTOR B, DO NOT EQUIP IT WITH A 116A1 CM.

**Fig. 35.1—Nondedicated Lead Connections for 498A KTU (Music-On-Hold Circuit) Equipped With a 116A1 Circuit Module in 69D Apparatus Mounting**