

**SERVICE**  
**1A2 KEY TELEPHONE SYSTEM**  
**KEY SERVICE UNITS**  
**513-, 514-, AND 515-TYPE**

**1. GENERAL**

**1.001** This addendum supplements Section 518-215-405, Issue 6. Place these pink sheets ahead of Page 1 of this section.

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

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

**2. CHANGES TO SECTION**

**2.001** On Page 6, paragraph 1.03, add the following to the list of drawings:

SD-69942-01, Issue 1 (400H KTU)

SD-69922-01, Issue 1 (498A KTU and 116A1 Circuit Module).

**2.002** On Page 14, Table D (Contd) is revised to show the addition of the 498A KTU. The revised table is shown in this addendum.

**2.003** On Page 20, add the following sentence as a part of paragraph 3.06: A 69E or F equipped with both a 498A KTU and a 116A1 circuit module (CM) cannot be used with a second 498A KTU equipped with a 116A1 CM or another KTU which requires the use of the RN lead.

**2.004** On Page 28, add Fig. 9.1.

**2.005** On Page 59, add Fig. 38.1.

**2.006** On Page 64, add Fig. 43.1.

**2.007** On Page 91, add Fig. 73.1.

**NOTICE**

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

TABLE D (Contd)

CONNECTOR SELECTION AND ARRANGEMENT OF  
400 SERIES KTUs IN 513-, 514-, AND 515-TYPE KSUs

KTU	SIZE		SERVICE FUNCTION	515 KSU															
				(SEE NOTE)															
	(IN.)	PINS		513 KSU ¶							514 KSU								
				CONNECTORS							CONNECTORS								
	J	J		J	J	J	J	J	J	J	J	J	J	J	J	J	J		
	1	2		3	4	5	6	7	8	11	12	13	14	15	16	17	18		
40	40	20	20	20	20	40	40	40	40	40	40	20	20	20	20				
467A	4	18	Low-Voltage Monitor Ckt	15	16	1	2	3	4	9	10	11	12	13	14	5	6	7	8
469A	4	18	Lamp Extender Ckt	15	16	1	2	3	4	9	10	11	12	13	14	5	6	7	8
471A	4	18	Battery Reversal Toll Restriction	15	16	1	2	3	4	9	10	11	12	13	14	5	6	7	8
498A (Notes 1&2)	4	40	Music-On-Hold	5	*	*	*	*	*	1	2	3	*	4	*	*	*	*	*

Note: Location of connectors on 513 and 514 KSUs (see below).

\* Not usable.

† Restricted to transfer of one station ringer.

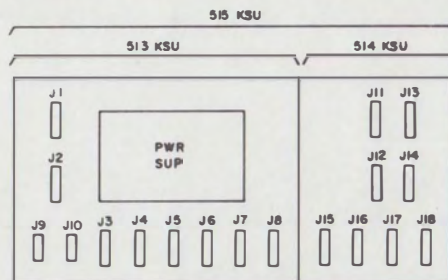
‡ One circuit only.

§ See Table H.

¶ If only 513 KSU is used, connector selection begins with lowest number available.

Notes:

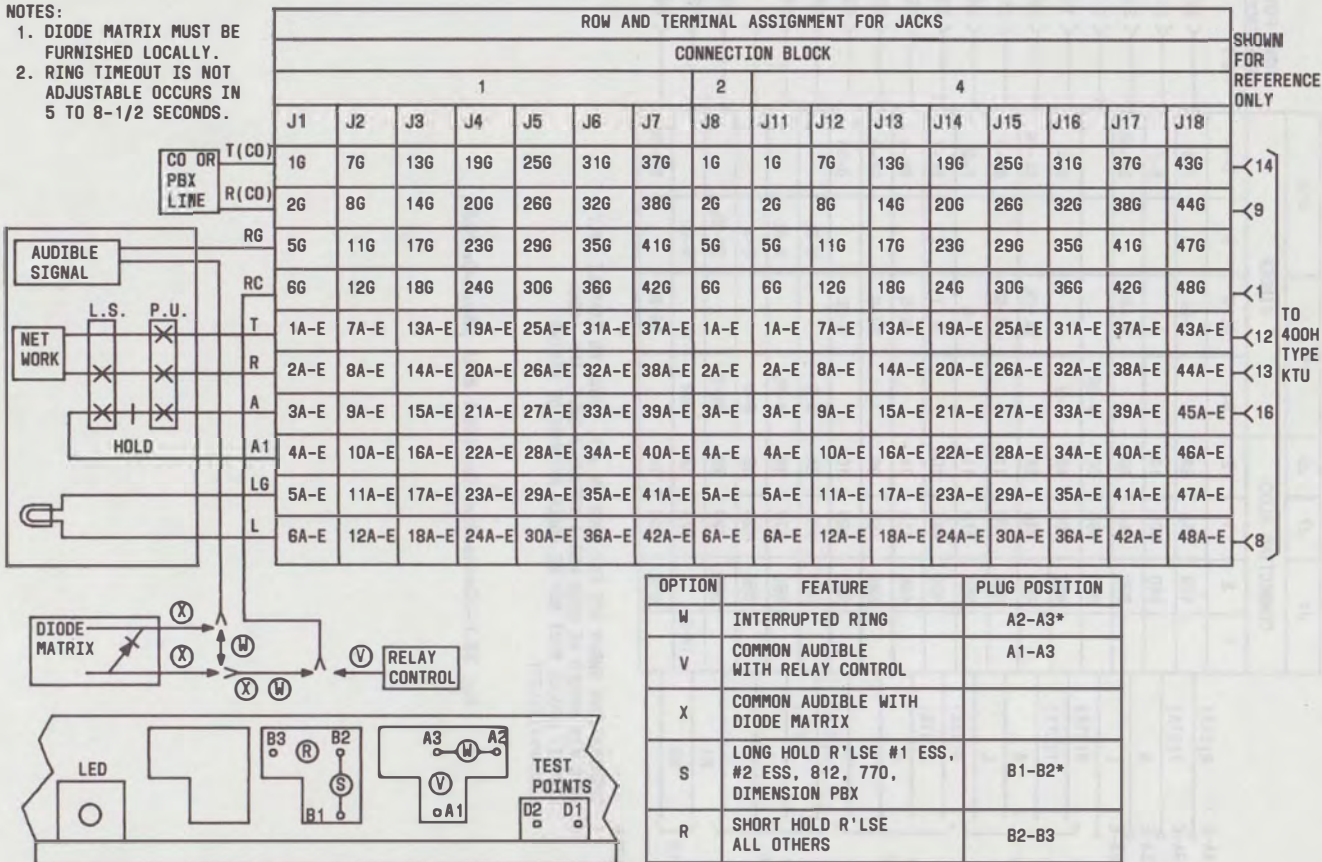
- This KTU is equipped to serve 4 lines. With addition of a 116A1 CM, an additional 3 lines can be served when wired in a 69E or 69F apparatus mounting. This KTU should be used for 4 circuits only when mounted in jacks 1, 7, 8, 11, or 13. The 116A1 CM should not be added because of wiring incompatibility.
- The 400H KTU is not compatible with the 451B KTU for music-on-hold; therefore, it must be used with the 498A KTU for music-on-hold.



NOTE  
LOCATION OF CONNECTORS ON 513 AND 514 KSU

NOTES:

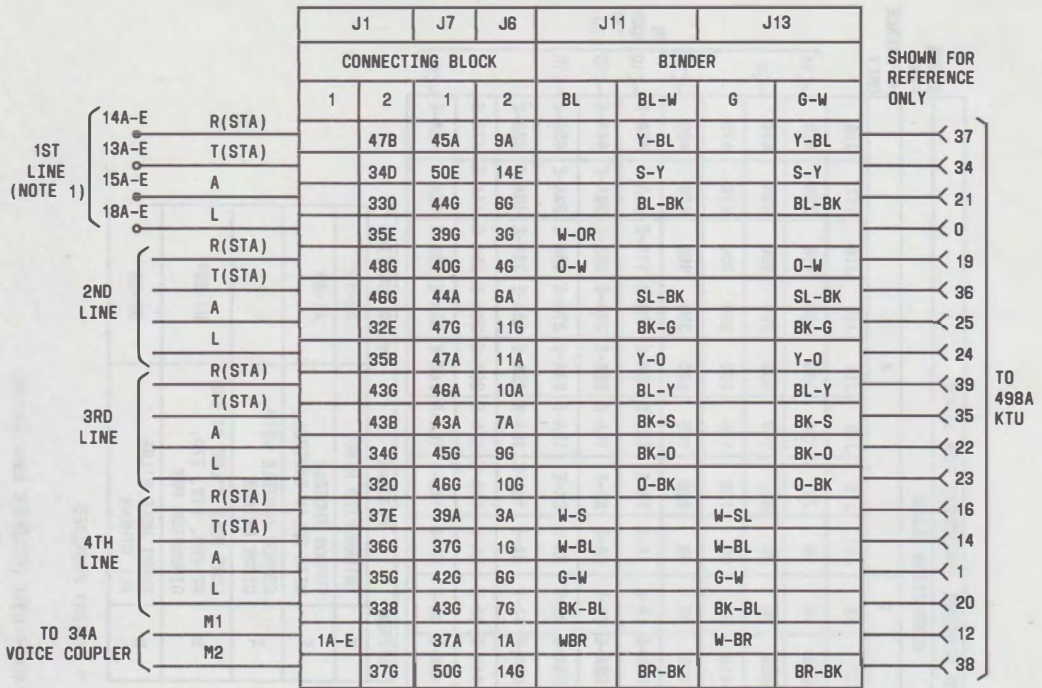
1. DIODE MATRIX MUST BE FURNISHED LOCALLY.
2. RING TIMEOUT IS NOT ADJUSTABLE OCCURS IN 5 TO 8-1/2 SECONDS.



TOP VIEW OF OPTION BLOCK-HANDLE ASSEMBLY. OPTION SYMBOLS SHOWN CONNECTED ARE FACTORY INSTALLED OPTIONS

Fig. 9.1—Connections for 400H KTU (CO/PBX Line Circuit)

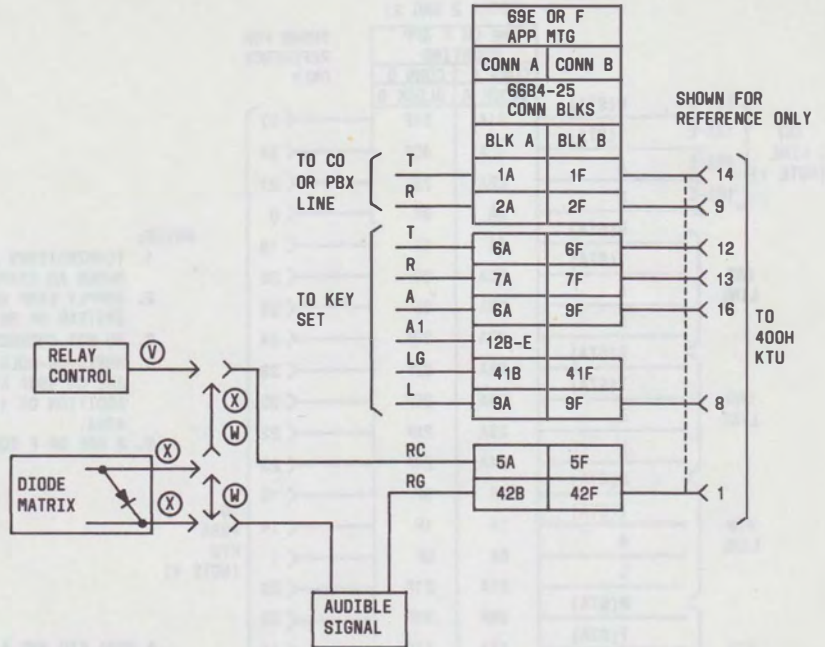




NOTES:

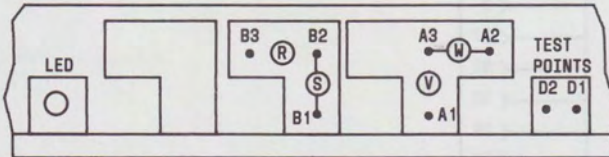
1. TERMINATIONS SHOWN ARE FOR 400H IN JK3, SHOWN AS EXAMPLE ONLY
2. THIS KTU SHOULD BE USED FOR 4 CIRCUITS ONLY. THE 116A1 CIRCUIT MODULE MUST NOT BE ADDED BECAUSE OF WIRING INCOMPATIBILITY.

Fig. 38.1—Connections for 498A KTU (Music-On-Hold)



NOTES:

1. DIODE MATRIX MUST BE FURNISHED LOCALLY
2. RING TIME OUT IS NOT ADJUSTABLE, OCCURS IN 5 TO 8 1/2 SECONDS.

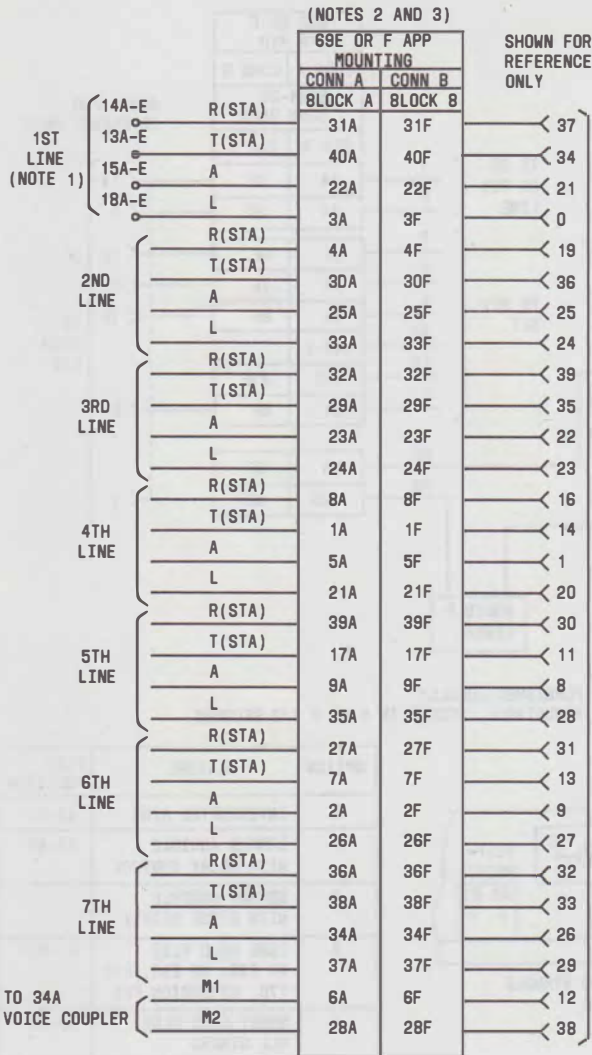


TOP VIEW OF OPTION - HANDLE ASSEMBLY. OPTIONS SYMBOLS SHOWN CONNECTED ARE FACTORY INSTALLED OPTIONS

OPTION	FEATURE	PLUG POSITION
W	INTERRUPTED RING	A2-A3*
V	COMMON AUDIBLE WITH RELAY CONTROL	A1-A3
X	COMMON AUDIBLE WITH DIODE MATRIX	
S	LONG HOLD RLSE #1 ESS, #2 ESS, 812 770, DIMENSION PBX	B1-B2*
R	SHORT HOLD RLSE ALL OTHERS	B2-B3

\*FACTORY PROVIDED

Fig. 43.1—Connections From 400H KTU (CO/PBX Line Circuit) in 69E or F Apparatus Mounting to External Connecting Block



NOTES:

1. TERMINATIONS ARE FOR 400H IN JK3. SHOWN AS EXAMPLE ONLY.
2. SUPPLY LAMP GROUND ON 15A OF BLOCK A INSTEAD OF MG.
3. DO NOT CONNECT RN TO 17A OF BLOCK A.
4. MUSIC-ON-HOLD CIRCUITS FOR LINES 1-4 ARE ON 498A KTU. LINES 5-7 REQUIRE ADDITION OF 116A1 CIRCUIT MODULE TO 498A.
5. A 69E OR F EQUIPPED WITH 80TH

A 498A KTU AND A 116A1CM CANNOT BE USED WITH A SECOND 498A KTU EQUIPPED WITH A 116A1CM OR ANOTHER KTU WHICH REQUIRES THE USE OF THE RN LEAD

Fig. 73.1—Connections for 498A KTU (Music-On-Hold) in 69E or F Apparatus Mounting