

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.

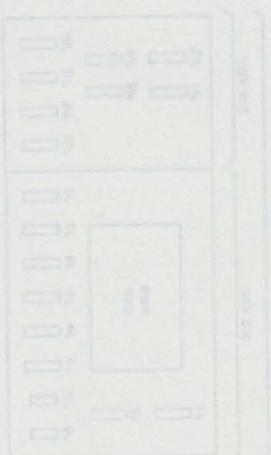
2.003 On Page 20, add the following sentence as a part of paragraph 3.06: A 69E or F equipped with both a 498A KTU and a 116A1 circuit module (CM) cannot be used with a second 498A KTU equipped with a 116A1 CM or another KTU which requires the use of the RN lead.

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

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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	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.

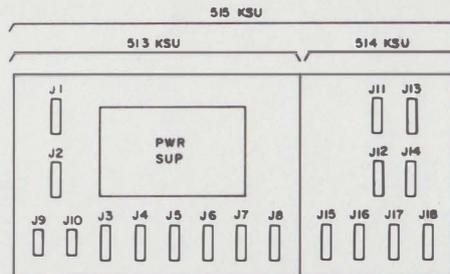
‡ One circuit only.

§ See Table H.

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

Notes:

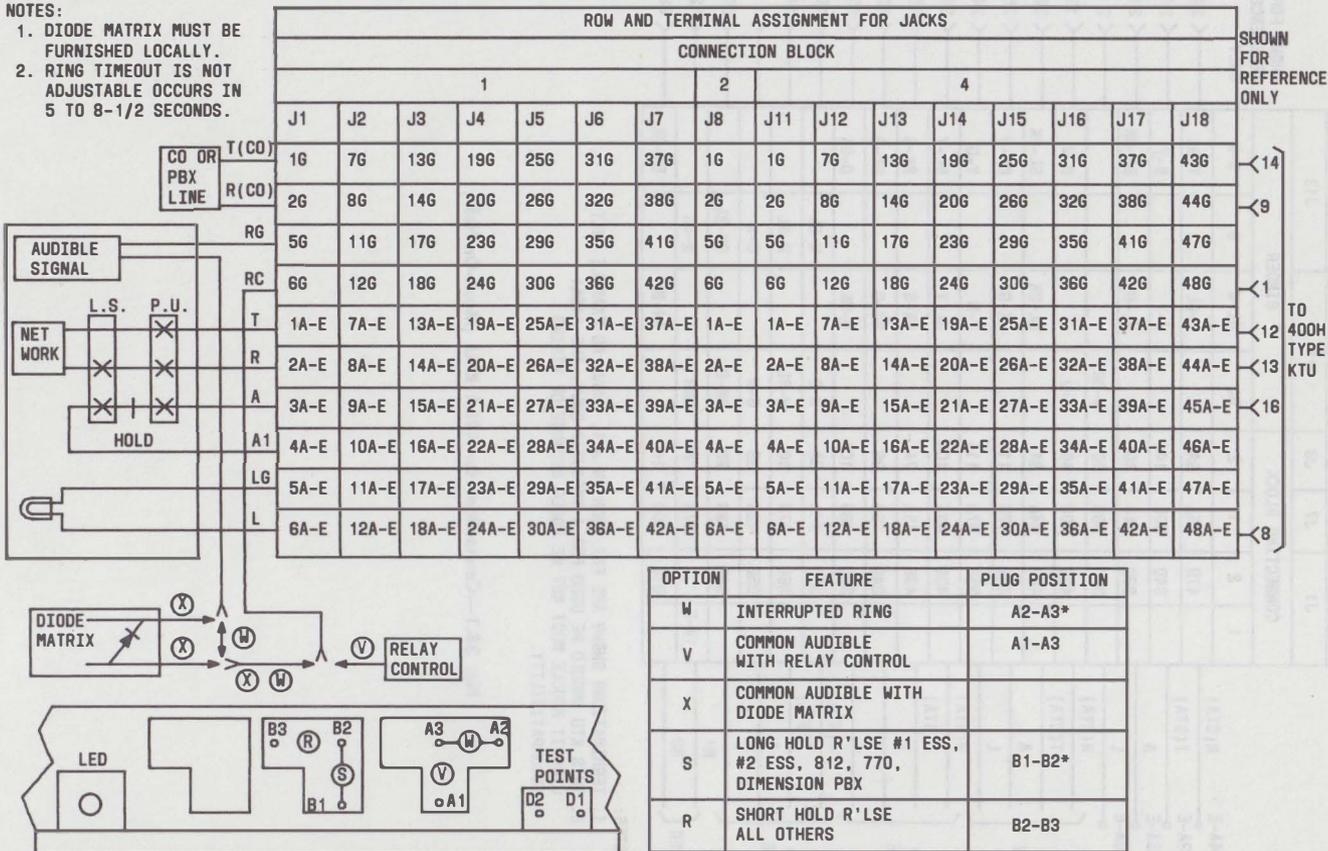
- This KTU is equipped to serve 4 lines. With addition of a 116A1 CM, an additional 3 lines can be served when wired in a 69E or 69F apparatus mounting. This KTU should be used for 4 circuits only when mounted in jacks 1, 7, 8, 11, or 13. The 116A1 CM should not be added because of wiring incompatibility.
- 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.

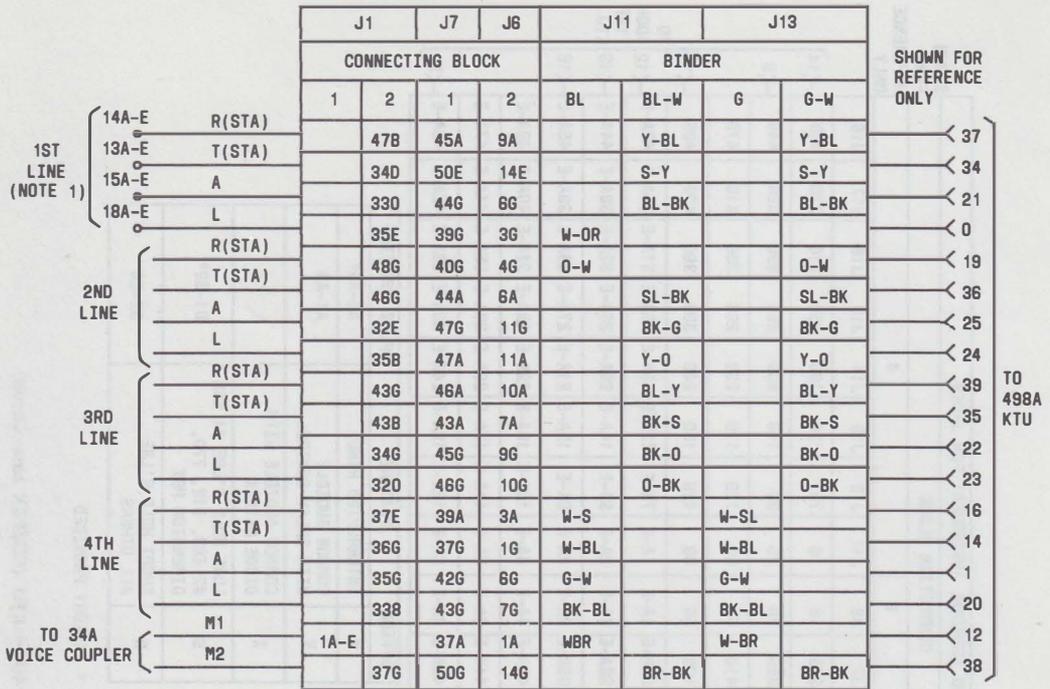


TOP VIEW OF OPTION BLOCK-HANDLE ASSEMBLY. OPTION SYMBOLS SHOWN CONNECTED ARE FACTORY INSTALLED OPTIONS

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 R'LSE #1 ESS, #2 ESS, 812, 770, DIMENSION PBX	B1-B2*
R	SHORT HOLD R'LSE ALL OTHERS	B2-B3

* FACTORY PROVIDED

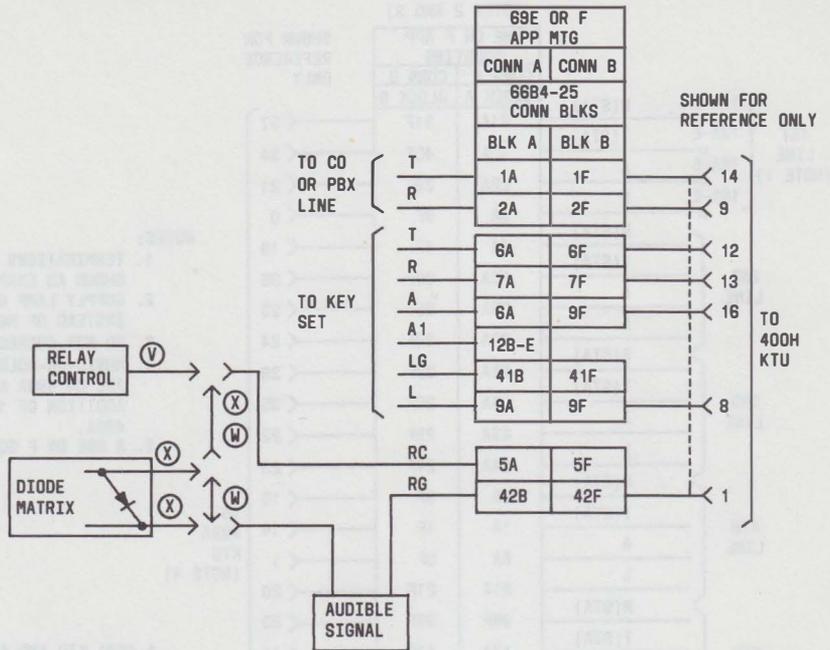
Fig. 9.1—Connections for 400H KTU (CO/PBX Line Circuit)



NOTES:

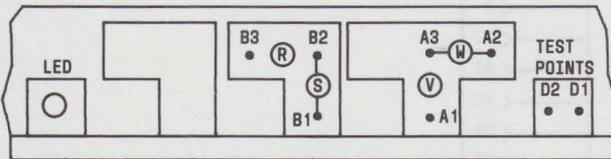
1. TERMINATIONS SHOWN ARE FOR 400H IN JK3, SHOWN AS EXAMPLE ONLY
2. THIS KTU SHOULD BE USED FOR 4 CIRCUITS ONLY. THE 116A1 CIRCUIT MODULE MUST NOT BE ADDED BECAUSE OF WIRING INCOMPATIBILITY.

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.

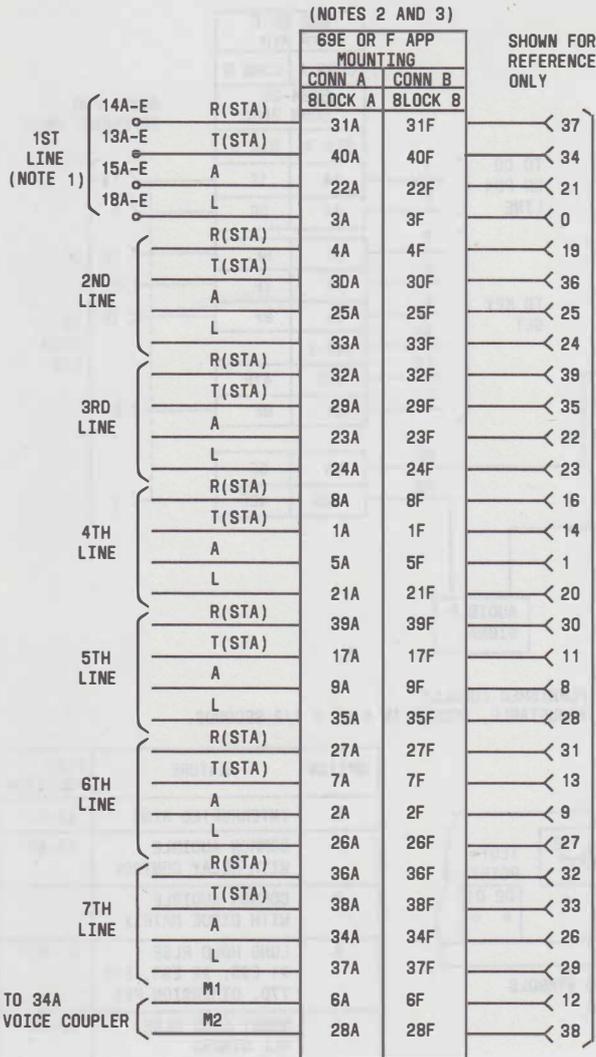


TOP VIEW OF OPTION - HANDLE ASSEMBLY. OPTIONS SYMBOLS SHOWN CONNECTED ARE FACTORY INSTALLED OPTIONS

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

TO
498A
KTU
(NOTE 4)

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