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)

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)

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.
### TABLE D (Contd)

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

<table>
<thead>
<tr>
<th>KTU</th>
<th>SIZE</th>
<th>PINS</th>
<th>SERVICE FUNCTION</th>
<th>515 KSU CONNECTORS</th>
<th>513 KSU (SEE NOTE)</th>
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<td>18</td>
<td>Low-Voltage Monitor Ckt</td>
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<td>15 16  1 2  3 4  5 9  10</td>
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<tr>
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<td>18</td>
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<td>15 16  1 2  3 4  5 9  10</td>
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</tr>
<tr>
<td>471A</td>
<td>4</td>
<td>18</td>
<td>Battery Reversal Toll Restriction</td>
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<td>15 16  1 2  3 4  5 9  10</td>
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<td>40</td>
<td>Music-On-Hold</td>
<td>5 * * * * * 1 2</td>
<td>3 * 4 * * * *</td>
<td>5 * * * * * 1 2</td>
<td>3 * 4 * * * *</td>
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**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:**

1. 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.

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

Row and Terminal Assignment for Jacks

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<th>3</th>
<th>4</th>
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<td>2G</td>
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<td>7E-A</td>
<td>8E-A</td>
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<td>J18</td>
<td>13E-A</td>
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Option Feature

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<td>INTERRUPTED RING</td>
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<td>V</td>
<td>COMMON AUDIBLE WITH RELAY CONTROL</td>
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<td>COMMON AUDIBLE WITH DIODE MATRIX</td>
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<td>LONG HOLD R' LSE #1 ESS, #2 ESS, 812, 770,</td>
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<td>DIMENSION PBX</td>
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<td>R</td>
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Fig. 9.1—Connections for 400H KTU (CO/PBX Line Circuit)
### ADDENDUM 518-215-405

**Figure 38.1 — Connections for 498A KTU (Music-On-Hold)**

<table>
<thead>
<tr>
<th>1st Line (Note 1)</th>
<th>Connecting Block</th>
<th>Binder</th>
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<tbody>
<tr>
<td>14A-E R(STA)</td>
<td>J1</td>
<td>J7</td>
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<td>13A-E T(STA)</td>
<td>47B</td>
<td>45A</td>
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<td>15A-E A</td>
<td>34D</td>
<td>50E</td>
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<td>18A-E L</td>
<td>330</td>
<td>44G</td>
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<td>35E</td>
<td>39G</td>
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</table>

**2nd Line**

| 14A-E R(STA)      | 48G | 40G | 4G  | O-W |
| 13A-E T(STA)      | 46G | 44A | 6A  | SL-BK |
| 15A-E A           | 32E | 47G | 11G | BK-G |
| 18A-E L           | 35B | 47A | 11A | BK-0 |

**3rd Line**

| 14A-E R(STA)      | 43G | 46A | 10A | BL-Y |
| 13A-E T(STA)      | 43B | 43A | 7A  | BK-S |
| 15A-E A           | 34G | 45G | 9G  | BK-O |
| 18A-E L           | 32G | 46G | 10G | O-BK |

**4th Line**

| 14A-E R(STA)      | 37E | 39A | 3A  | W-S  | W-SL |
| 13A-E T(STA)      | 36G | 37G | 1G  | W-BL | W-BL |
| 18A-E M1          | 33B | 43G | 7G  | BK-BL|
| 18A-E M2 1A-E     | 37G | 50G | 14G | BR-BK |

**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.

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**Diagram:**

![Diagram of connections for 498A KTU](image-url)
NOTES:
1. DIODE MATRIX MUST BE FURNISHED LOCALLY
2. RING TIME OUT IS NOT ADJUSTABLE, OCCURS IN 5 TO 8 1/2 SECONDS.

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<th>OPTION</th>
<th>FEATURE</th>
<th>PLUG POSITION</th>
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<tr>
<td>W</td>
<td>INTERRUPTED RING</td>
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<tr>
<td>V</td>
<td>COMMON AUDIBLE WITH RELAY CONTROL</td>
<td>A1-A3</td>
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<tr>
<td>X</td>
<td>COMMON AUDIBLE WITH DIODE MATRIX</td>
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<td>S</td>
<td>LONG HOLD RLSE #1 ESS, #2 ESS, 812 770, DIMENSION PBX</td>
<td>B1-B2*</td>
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<td>R</td>
<td>SHORT HOLD RLSE ALL OTHERS</td>
<td>B2-B3</td>
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*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 6SE or F equipped with both

---

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

<table>
<thead>
<tr>
<th>1st Line (Note 1)</th>
<th>2nd Line</th>
<th>3rd Line</th>
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** NOTES: **

- Terminations are for 400H in JK3, shown as example only.
- Supply lamp ground on 15A of block A instead of MG.
- Do not connect RN to 17A of block A.
- Music-on-hold circuits for lines 1–4 are on 498A KTU. Lines 5–7 require addition of 116A1 circuit module to 498A.
- A 6SE or F equipped with both

---

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.