

**SERVICE**  
**1A2 KEY TELEPHONE SYSTEM**  
**626A MODULAR PANEL**

**1. GENERAL**

**1.01** This section provides identification, installation, connection, and maintenance information for the 626A modular panel.

**1.02** This section is reissued to:

- Provide information on the 494B key telephone unit (KTU)
- Provide corrected information on audible signaling
- Add new Table B.

**1.03** This issue is based on CD- and SD-69658-01, Issue 4. If this section is to be used with equipment or apparatus reflecting a later issue of the drawing, reference should be made to the CD and SD to determine the extent of the change(s) and the manner in which the section may be affected.

**1.04** This issue of the section is based on the following drawings:

SD-69567-01—424-Type and 494-Type KTU

SD-69906-01—440A KTU (MD)

SD-69653-01—444-Type KTU

SD-69930-01—454-Type KTU

SD-69652-01—460-Type KTU

SD-69559-01—469A KTU

SD-69931-01—478B KTU

SD-82227-01—79B-Type Power Unit

**1.05** Refer to the following sections for information on associated KTUs and power units:

Section 518-215-402 — 424-Type, 440A, 454-Type, 460-Type, 478A, and 494-Type KTUs

Section 518-215-403 — 469A KTU

Section 167-440-201 — 19-, 20-, and 21-Type Power Unit

Section 167-446-101 — 30-Type Power Unit

Section 167-454-101 — 67D2 Power Unit

Section 167-458-102 — 79B-Type Power Unit

**1.06** After January 1, 1980, the 454C and 460C KTUs must be used when providing their related services. Previously connected or Class C KTUs may be used for additions and maintenance at grandfathered installations for the life of the units, provided they are not modified. Class C stock may also be used in new installations after January 1, 1980.

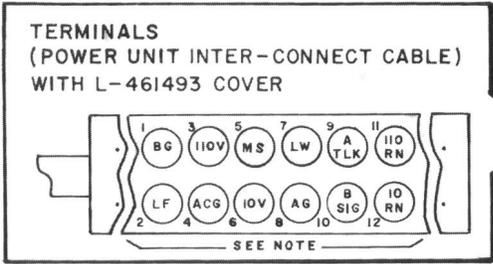
**2. DESCRIPTION**

**2.01** The 626A panel (Fig. 1) is designed for use with the 1A2 Key Telephone System (KTS). It provides a means for interconnecting a number of button-per-path type dial intercoms. The 626A panel can accommodate intercom configurations of 1, 2, or 3 paths with capacities of 19 or 37 stations. Intercom paths are selected by operation of the associated button on KTSs. Rotary and/or TOUCH-TONE® dialing can be provided. Lead terminations are provided in a quick-connect field to facilitate connecting optional features and for connecting to station blocks of a 1A2 KTS cross-connect field.

**2.02** The 626A panel measures 8-1/2 inches wide, 18-1/2 inches high, and 6 inches deep. It is equipped with eight 914B connectors paired vertically to accept 4- or 8-inch KTUs. The connector sec-

**NOTICE**

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



NOTE:  
NUMBERED FOR REFERENCE ONLY

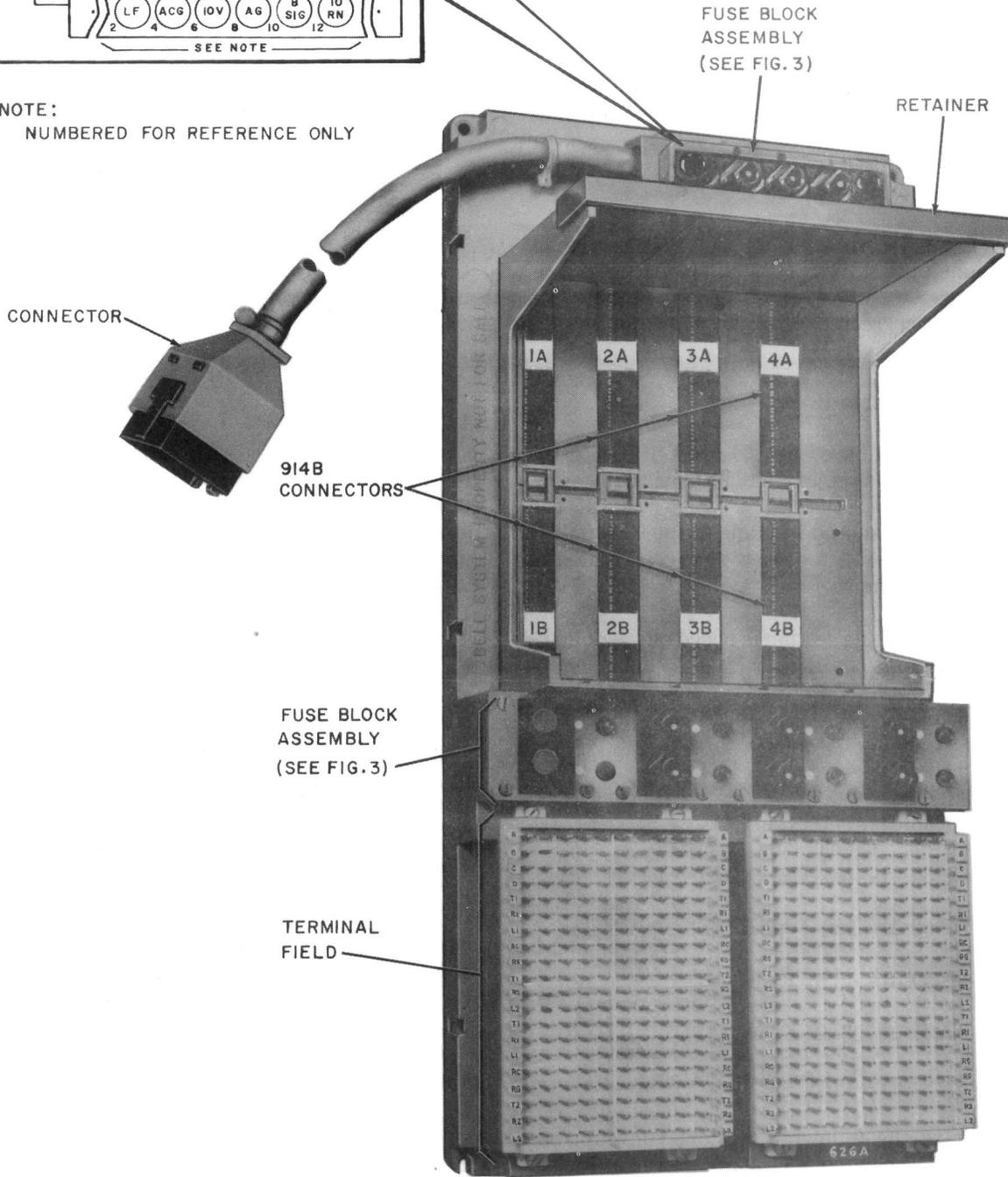


Fig. 1—626A Panel

tion is arranged to mount on a dedicated basis the KTUs listed in Table A. When the 4-inch 469A KTU (lamp extender circuit) is used in the panel, a snap-in guide assembly (841683501) must be installed over connector J2B.

**2.03** The 2- and 3-path access circuits provide dial tone, selector seizure, and flashing lamps to all stations during selector seizure (dialing and ringing) and steady lamps to all stations while the circuit is in the busy mode. The flashing lamps inform the customer that a call is in progress (selector seized) and no more calls can be initiated until the lamp goes steady or off (selector released). If 1-path intercom is provided (option Y, N or G), steady lamp only is supplied and dial tone is not furnished except for the 494A KTU. The selector extender circuit is used with the intercom selector to extend the dial code capability of the intercom from 19 codes to 37 codes. The lamp extender circuit is used to provide current to lamps 0-19 of the 37-code 1-path intercom (option Y). Audible signaling in the 2- and 3-path intercoms can be either a single-spurt or an interrupted ring, depending on the selector KTU used, while the audible signal for the 1-path intercom is always a single-

spurt ring; refer to Table B for a summary of audible signaling combinations.♦

**2.04** Power for the 626A panel is provided by an external power source and is fed to the panel by a plug-ended power cable. The power cable is located at the top of the panel above the KTU connectors. Fuses are provided in a fuse block, located just below the power cable, for the -24 volt talk, -24 volt signal, and the 10-volt alternating current interrupted ringing sources (Fig. 2 and 3). Located below the KTU connectors and above the terminal field are seven lamps and six fuses. One lamp is connected to the code selector (424- or 494-type KTU) lamp lead to indicate the status of the selector. The remaining six lamps and six fuses are connected to the path access circuit lamp leads on a 2-lamp/2-fuse per-path basis (Fig. 3).

**2.05** The lower section of the 626A panel has two connecting blocks, light yellow in color, that contain 66-type quick-connect terminals (Fig. 4). These blocks are 20 terminals high by 10 terminals wide. The upper 4 horizontal rows of the connecting blocks contain power option and function terminals

♦TABLE A♦

## 626A PANEL DEDICATED KTUs

CONNECTOR	KEY TELEPHONE UNIT
1A and 1B	424-Type—Dial Intercom Circuit, Rotary Only
	494A—Dial Intercom Circuit, TOUCH-TONE Dialing Only
	494B—Dial Intercom Circuit, Rotary or TOUCH-TONE Dialing
2B Only*	469A—Lamp Extender Circuit
2A and 2B	460-Type—2-Path Intercom Circuit
	454-Type—3-Path Intercom Circuit
3A and 3B	444-Type—Selector Extender Circuit
4A and 4B	440A—TOUCH-TONE Adapter Circuit
	478A—TOUCH-TONE Adapter Circuit

\* A 469A KTU requires a snap-in guide assembly (841683501) to hold the 4-inch circuit pack in place.

▶TABLE B◀  
AUDIBLE SIGNALING

SELECTOR CIRCUIT USED	SINGLE-SPURT RING		INTERRUPTED RING	
	1-PATH INTERCOM	2- OR 3-PATH INTERCOM	1-PATH INTERCOM	2- OR 3-PATH INTERCOM
424-Type KTU	Y or N Option plus G Option	Not provided	Not provided	FW or S Option
494-Type KTU	Y or N Option plus G Option	FW or S Option plus G Option plus Remove strap between A8 and B1 on block 1	Not provided	FW or S Option

to interconnect the various intercom arrangements and optional features. The lower 16 horizontal rows of the connecting blocks provide the station cross-connect terminals for station codes and for the 1- and 2-path intercom stations. The third intercom path access circuit common leads are brought out on rows 1 and 2 of the second connecting block. Straps must be run to a separate 66-type connecting block (Fig. 5) for distribution to the 3-path intercom station.

**2.06** The total  $\pm 10$  volt lamp power required per intercom path is approximately 1.6 amperes (37 station lamps and 2 maintenance lamps). The maximum  $\pm 10$  volt power required is dependent on the number of intercom paths and the number of stations on each path. In a fully equipped 3-path intercom, power required for the lamp steady mode is about 4.8 amperes. Lamp flash power requirements do not exceed 1.6 amperes as the selector serves only one path at a time. The 67D2 power unit is recommended for intercom systems with large lamp multiples.

#### ORDERING GUIDE

(a) **Basic Panel:**

- Panel, Modular, 626A

(b) **Replaceable Components:**

- Lamp, 51A
- Fuse, 70A (1-1/3 amps)

- Fuse, 70H (3/4 amp)
- Designation Pin (Indicator, Fuse)

KS-14174, L1—White

KS-14174, L8—Brown

(c) **Associated Apparatus** (Order Separately):

- Assembly, Guide, Snap-in, 841683501

**Note:** The guide assembly is required only when the lamp extender circuit (469A KTU) is used.

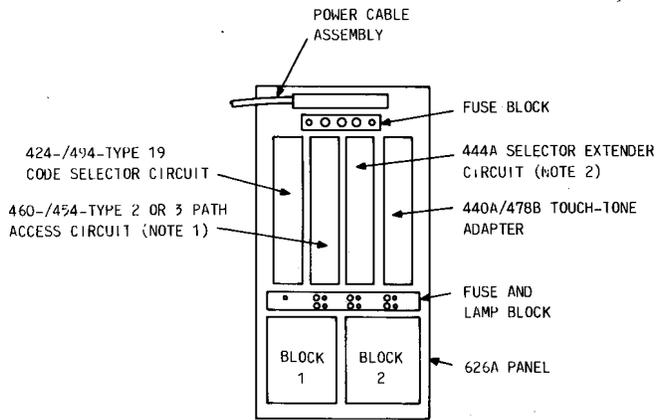
- Unit, Telephone, Key 424C (Dial Intercom 19-Code Selector)

**Note 1:** The 424B KTU (MD) is interchangeable with the 424C.

**Note 2:** The 424-type KTU alone can be used only with rotary dial service. For TOUCH-TONE service, a 478B or 440A adapter must be added.◀

**Note 3:** The 424A KTU (MD) is not recommended for use in the 626A panel as it is not compatible with the 444-type KTU.

or



NOTES:  
 1. THE 460 TYPE KTU IS A 2-PATH ACCESS CIRCUIT. THE 454 TYPE KTU IS A 3-PATH ACCESS CIRCUIT.  
 2. THE 444A KTU CAN ONLY BE USED WITH THE 424-TYPE OR 494-TYPE KTU.

Fig. 2—KTU Arrangement, 626A Panel

- Unit, Telephone, Key 494A (TOUCH-TONE Selector) or 494B (Rotary or TOUCH-TONE Selector)

**Note:** The 494-type KTU should be used in lieu of the 424-type KTU when TOUCH-TONE is provided on intercom installations because the 494-type does not require a separate TOUCH-TONE adapter KTU. It cannot be used for a deluxe intercom arrangement.

- Unit, Telephone, Key 444B (Selector Extender Circuit) — extends the codes of the 424-type and 494-type code selectors to 37 codes

**Note:** The 444A KTU (MD) is interchangeable with the 444B.

- Unit, Telephone, Key 454C (3-Path Access Circuit) — order when 3-path intercom service is provided

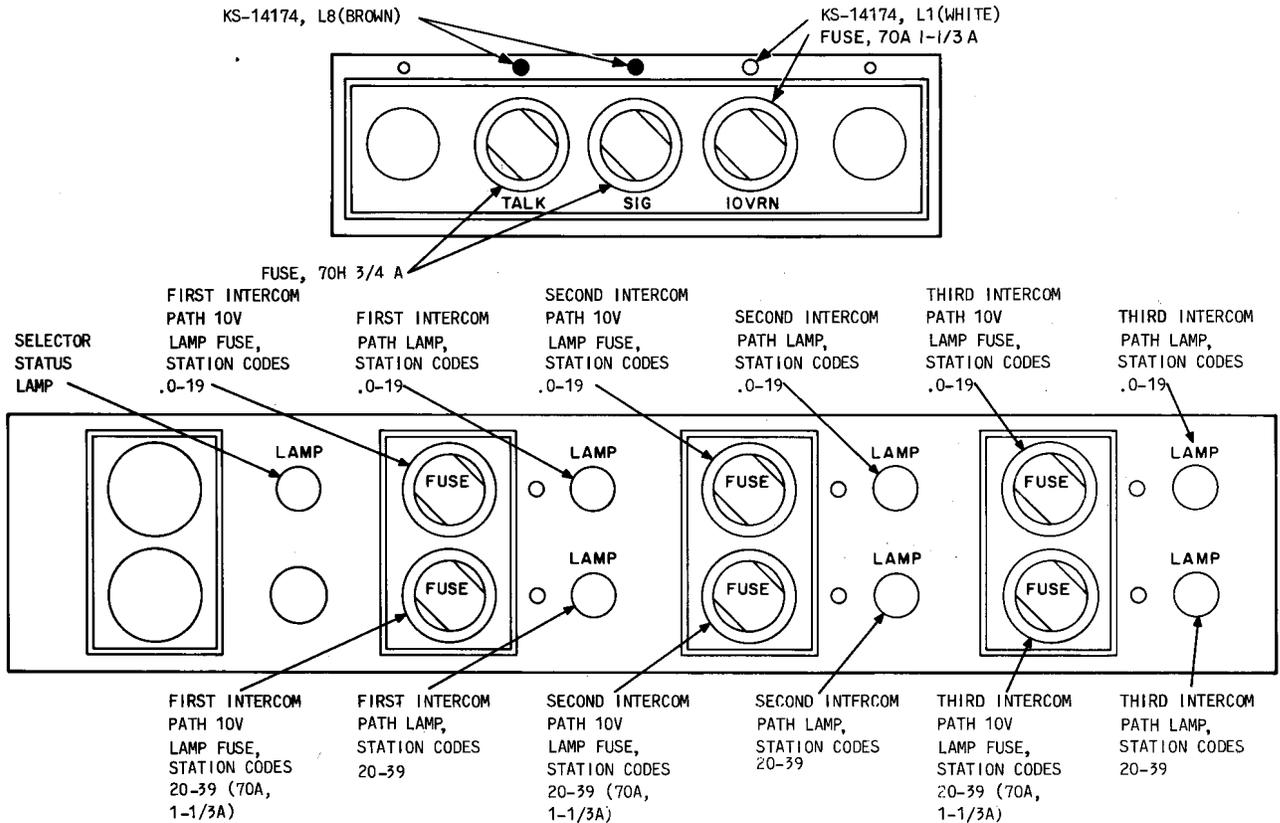


Fig. 3—Fuse and Lamp Arrangement, 626A Panel



**Note:** The 454A and B (both [MD]) KTUs are interchangeable with the 454C.

- Unit, Telephone, Key 460C (2-Path Access Circuit) — order when 2-path intercom service is provided

**Note:** The 460A and B (both [MD]) KTUs are interchangeable with the 460C.

- Unit, Telephone, Key 469A (Lamp Extender Circuit) — order when 1-path intercom with 37 station codes is provided
- Unit, Telephone, Key 478B (TOUCH-TONE Adapter Circuit) — order when TOUCH-TONE service is provided **and** a 424-type selector is used.

**Note:** The 440A (MD) TOUCH-TONE adapter is interchangeable with the 478B.

- Cord, P12D (Power Interconnect Cable) — order when necessary to extend the panel power cable
- Unit, Power, 79B1 (MD) or 79B2
- Cord, Power — order length required:
  - 824013288 (P-40J328) (4 feet)
  - 824013296 (P-40J329) (6 feet)
  - 824010995 (P-40J099) (12 feet)
- Unit, Power (19-, 20-, 29-, or 30-Type) — order as required for a separate power source if interrupted power can be obtained from an existing 584C panel or 232-type KTU
- Unit, power, 67D2 — order as required (see paragraph 3.06)
- Block, Connecting, 92A — order as required to connect separate power unit to panel
- Unit, Telephone, Key 232C (Interrupter Type Key Telephone Unit) — used with separate power unit to supply interrupted voltages to panel
- Block, Connecting, 66B4-25

or

- Block, Connecting, 66B3-50 — order as required for terminating common leads for third intercom path
- Block, Connecting, 66M1-50 — order as required for preset conference arrangement
- Diode, KS-21765, L1, or equivalent — order as required for preset conference arrangement
- Insulator, Terminal, C Clip — order as required
- Cover, 151A
- Cover, 153A, End Cap
- Backboard, 185A1 (yellow) — order as required
- Adapter, Plug, Power Cord, Hubbell BL-12433
- Adapter, Bridging, 183B2 — order as required.

### 3. INSTALLATION

**3.01** The 626A is a wall-mounted panel and should be located with or in close proximity to 1A2 KTS panels and power sources.

**3.02** Refer to the following sections for information on Key Telephone Systems:

- 518-010-101 — Centralized Key Telephone Installations
- 518-010-105 — Grounding and Special Protection Requirements
- 518-215-419 — 620A, 641A, and 642A Modular Panels.

**3.03** Use care when transporting and unpacking the modular panel and KTUs to prevent damage to them.

**3.04** Power for the 626A panel may be supplied by a 79B1 (MD) or 79B2 power unit associated with a 1A2 KTS. In the event the power cord of the panel is too short to connect to the power unit, a P12D cord can be used.

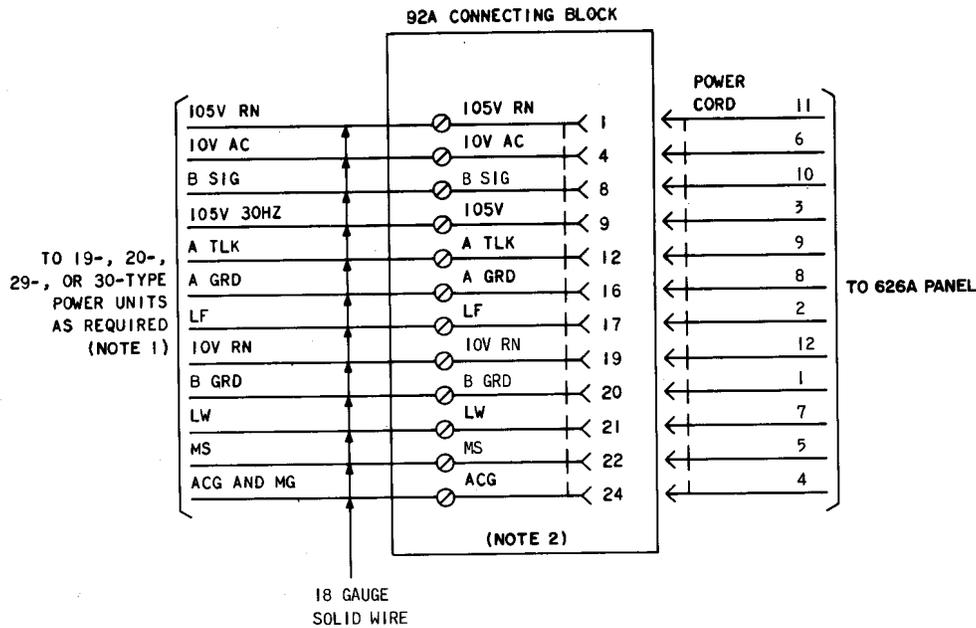
**Warning:** 115 volts may be present on the 105-volt 30-Hz RN terminal of the 626A panel when power is applied. Install a C clip terminal insulator over the 105-volt 30-Hz RN terminal.

**3.05** Where power cannot be supplied by a 79B-type power unit, power can be supplied from a separate 19-, 20-, 29-, or 30-type power unit. A 92A connecting block (Fig. 6) provides a means for connecting the power cable of the 626A panel to the power unit. An interrupter must be provided with the separate power unit to furnish the interrupted volt-

ages to the panel. All straps between the power unit and the 92A connecting block are made with 18-gauge (solid) wire.

**Note:** In the 626A modular panel the Ring Ground (RG) also serves as Lamp Ground (LG) and must be connected on the station cross-connect field to the lamp grounds (continuous strapping is required).

**3.06** For modular panel installations that are subject to expansion or where a large lamp multiple is anticipated, a 67D2 power unit, for 10-volt ac



- NOTES:
1. INTERRUPTED VOLTAGES, WHEN REQUIRED MUST BE SUPPLIED THROUGH AN INTERRUPTER.
  2. CONNECTING BLOCK TERMINAL ARRANGEMENT

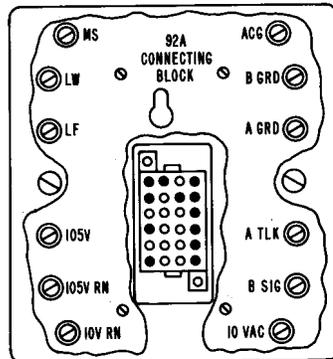


Fig. 6— 19-, 20-, 29-, or 30-Type Power Unit Connection Using 92A Connecting Block

power, can be used with two 92A connecting blocks to provide the required power for the lamps (Fig. 7).

**4. OPTIONS AND FEATURES**

**4.01** The various optional arrangements for the 626A panel are listed in Table C.

**A. FW Option**

**4.02** The FW option (Fig. 8) is a factory-provided option. The FW option provides for two or three intercom paths with 37 station codes. Stations can utilize both rotary and TOUCH-TONE dialing. Digits 1, 2, and 3 are used as transfer digits and are not available for station codes. Where the third intercom path is used, an external (66-type) connecting block (Fig. 5) is required to connect the common leads. Interrupted signaling is standard, but single-spurt signaling may be provided where a 494-type selector is used by installing option G and removing the factory-installed strap between A8 and B1 of block 1 (Table B). ◀

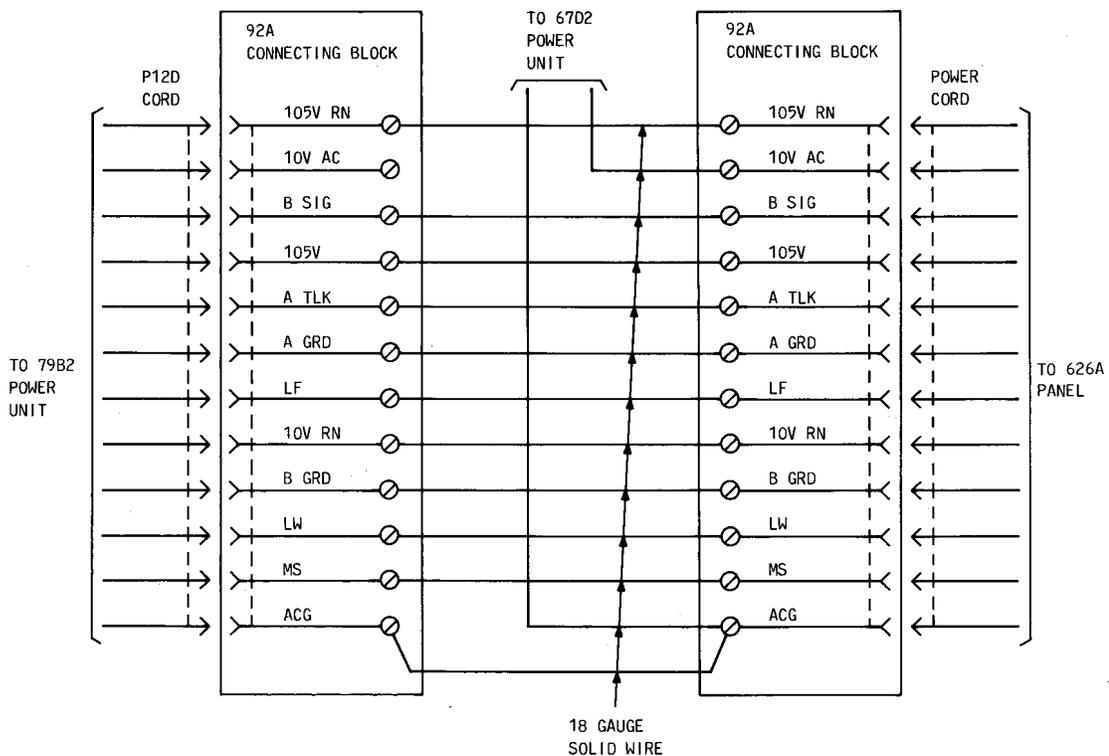


*Transfer digits are not restricted to digits 1, 2, or 3 except when using a 494A KTU. Any digit(s) can be used as a transfer digit(s). However, the digit(s) selected as a transfer digit(s) is forfeited as a station code.*

**4.03** See Fig. 2 for location of the following KTUs which are required for FW option:

- 424-Type — 19-code selector circuit
- or
- 494A — TOUCH-TONE selector (when TOUCH-TONE only is required)
- or
- ◀494B — Rotary or TOUCH-TONE selector▶

**Note:** If a 494-type KTU is used, a 440A or 478B TOUCH-TONE adapter is not required. (If



**Fig. 7—67D2 Power Unit Connections Using 92A Connecting Block**

**TABLE C**  
**626A PANEL OPTIONS**

OPTIONS	INTERCOM PATHS	STATION CODES		REFER TO FIGURE
FW*	2 or 3	37	Rotary and/or TOUCH-TONE Dialing	8
S†	2 or 3	19		9
Y	1	37		10
N†	1	19		11
Z	Non-TOUCH-TONE dialing			12
E	Interrupted $\pm 10$ volt buzzer			13
X	Interrupted 105-volt 30-Hz ringer			14
G	Uninterrupted (single-spurt) $\pm 10$ volt buzzer or for 18-volt ac, 24-volt dc, ground, or as required for signaling purposes other than provided (may require an external power source)			15

**Note:** Ring ground (RG) also serves as lamp ground (LG) and must be connected on the station cross-connect field to the lamp grounds (continuous strapping is required).

\* Factory-provided option. The 1, 2, and 3 digits are factory-wired as transfer digits and cannot be used as station codes. Other digits can be used as transfer digits, but it is not recommended. In the event it becomes necessary to use other digits, consult supervisor.

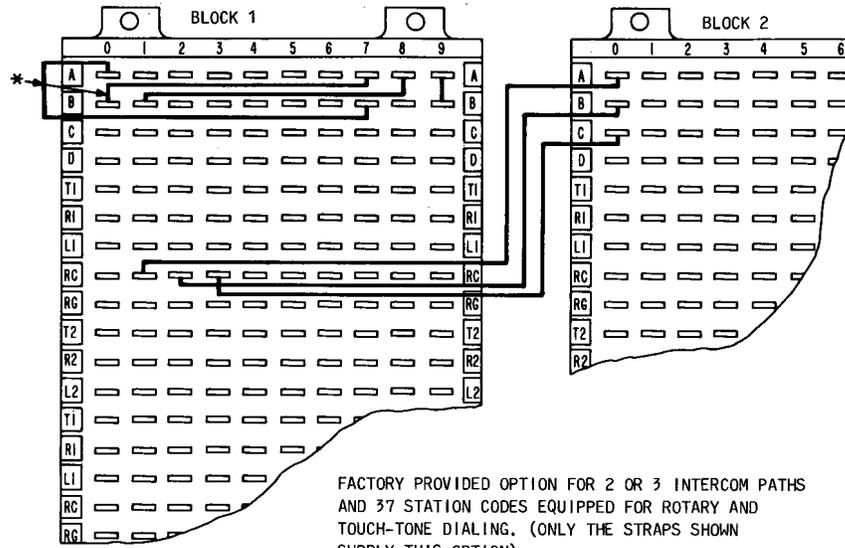
† When no more than 19 codes are provided, obtain the R(10) to R(19) codes from the terminals on block 1, row C, terminals 0 to 9, respectively, and not from the R(10) to R(19) terminals of block 2.

a TOUCH-TONE adapter is not provided, Z option [Fig. 12] must be applied.)

- 460-Type — 2-path access circuit
- or
- 454-Type — 3-path access circuit
- 444-Type — Selector extender circuit
- 440A or 478B — TOUCH-TONE adapter, if required.

#### B. S Option

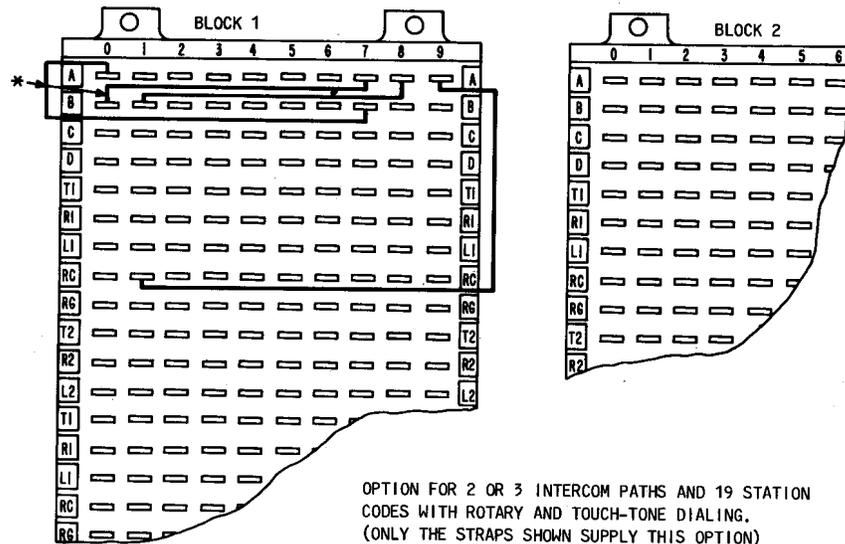
**4.04** The S option (Fig. 9) provides for two or three intercom paths with 19 station codes. Stations can utilize both rotary and TOUCH-TONE dialing. Digit 1 is used as the transfer digit and is not available for a station code. Station codes 10 through 19 are connected to row C, terminals 0 through 9 on block 1 of the 626A panel (Fig. 4). Where a third intercom path is used, an external (66-type) connecting block (Fig. 5) is required to connect the common leads. ♦ Interrupted signaling is standard, but single-spurt signaling may be provided where a 494-type selector is used by installing option G and removing the factory-installed strap between A8 and B1 of block 1 (Table B). ♦



FACTORY PROVIDED OPTION FOR 2 OR 3 INTERCOM PATHS AND 37 STATION CODES EQUIPPED FOR ROTARY AND TOUCH-TONE DIALING. (ONLY THE STRAPS SHOWN SUPPLY THIS OPTION)

\* THESE STRAPS ARE REQUIRED ONLY WHEN THE 494-TYPE KTU IS USED

**Fig. 8—FW Option**



OPTION FOR 2 OR 3 INTERCOM PATHS AND 19 STATION CODES WITH ROTARY AND TOUCH-TONE DIALING. (ONLY THE STRAPS SHOWN SUPPLY THIS OPTION)

\* THESE STRAPS ARE REQUIRED ONLY WHEN THE 494-TYPE KTU IS USED

**Fig. 9—S Option**

4.05 See Fig. 2 for location of the following KTUs which are required for S option:

- 424-Type — 19-code selector circuit
- or
- 494A — TOUCH-TONE selector (when TOUCH-TONE only is required)
- or
- 494B — Rotary or TOUCH-TONE selector

**Note:** If a 494-type KTU is used, a 440A or 478B TOUCH-TONE adapter is not required. (If a TOUCH-TONE adapter is not provided, Z option [Fig. 12] must be applied.)

- 460-Type — 2-path access circuit
- or
- 454-Type — 3-path access circuit
- 440A or 478B — TOUCH-TONE adapter, if required.

C. Y Option

4.06 The Y option (Fig. 10) provides for one intercom path with 37 station codes. Stations can

utilize both rotary and TOUCH-TONE dialing. Digits 1, 2, and 3 are used as transfer digits and are not available for station codes. Option G must be used with the Y option to provide audible signaling (single-spurt).

4.07 See Fig. 2 for location of the following KTUs which are required for Y option:

- 424-Type — 19-code selector circuit
- or
- 494A — TOUCH-TONE selector (when TOUCH-TONE only is required)
- or
- 494B — Rotary or TOUCH-TONE selector

**Note:** If a 494-type KTU is used, a 440A or 478B TOUCH-TONE adapter is not required. (If a TOUCH-TONE adapter is not provided provide Z option [Fig. 12] must be applied.)

- 469A — Lamp extender (requires a guide assembly to be installed over connector J2B; see ORDERING GUIDE for type of guide assembly)
- 444A or B — selector extender circuit

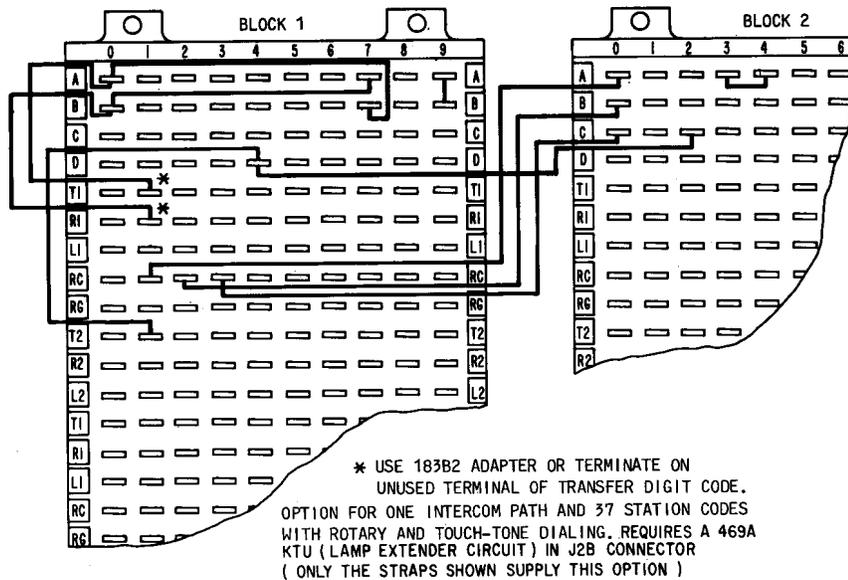


Fig. 10—Y Option

- 440A or 478B — TOUCH-TONE adapter, if required.

**D. N Option**

**Note:** This option is a standard 1A2 KTS offering that can be provided with the 641A modular panel (see Section 518-215-419). It is included here for those installations that are expected to expand to two or three intercom paths and where more station codes will be required in the future.

**4.08** The N option (Fig. 11) provides for one intercom path with 19 station codes. Stations can utilize both rotary and TOUCH-TONE dialing. Digit 1 is used as the transfer digit and is not available for a station code. Station codes 10 through 19 are connected to row C, terminals 0 through 9 on block 1 of the 626A panel (Fig. 4). Option G must be used with the N option to provide audible signaling (single-spurt).

**4.09** See Fig. 2 for location of the following KTUs which are required for N option:

- 424B or C — 19-code selector circuit
- or
- 494A — TOUCH-TONE selector (when TOUCH-TONE only is required)

or

- 494B — Rotary or TOUCH-TONE selector

**Note:** If a 494-type KTU is used, a 440A or 478B TOUCH-TONE adapter is not required. (If a TOUCH-TONE adapter is not provided, Z option [Fig. 12] must be applied.)

- 440A or 478B — TOUCH-TONE adapter, if required.

**E. Z Option**

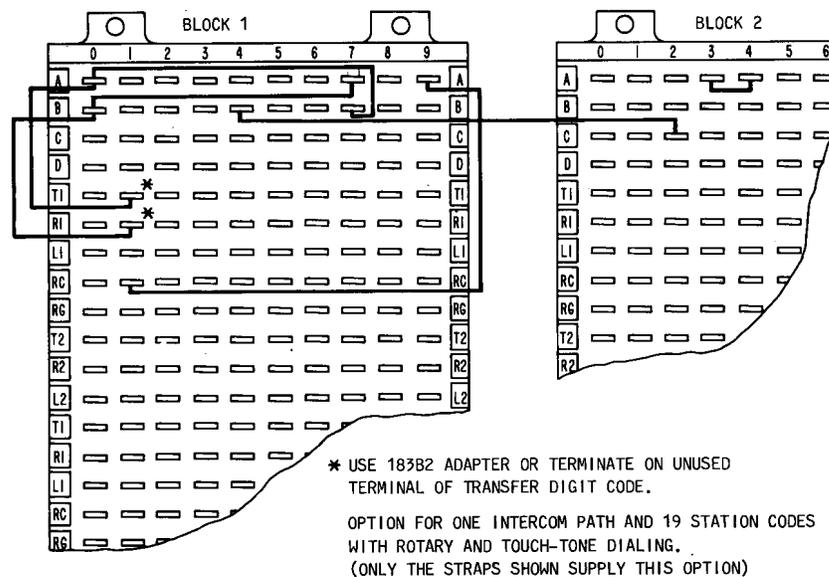
**4.10** The Z option (Fig. 12) is required when rotary dial service is provided. It consists of a strap on block 1 of the 626A panel between row A, terminal 2, and row B, terminal 2. The Z option must be removed if the intercom is changed to TOUCH-TONE dialing.

**F. E Option**

**4.11** The E option (Fig. 13) provides interrupted 10-volt alternating current to operate station buzzers when the station codes are dialed. Option E consists of a strap on block 1 of the 626A panel between terminals 4 and 5 on row A.

**G. X Option**

**4.12** The X option (Fig. 14) provides interrupted 105-volt 30-Hz ringing to operate station ring-



**Fig. 11 — N Option**

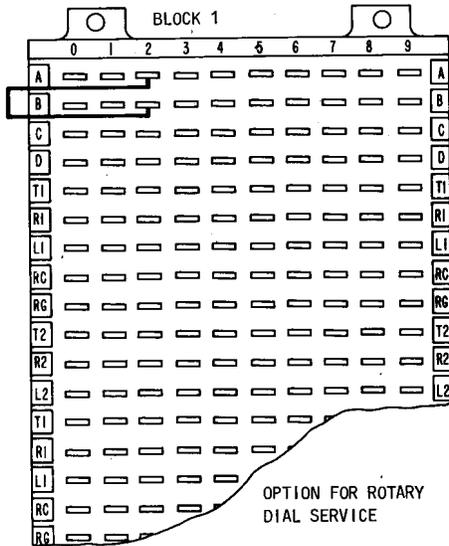


Fig. 12—Z Option

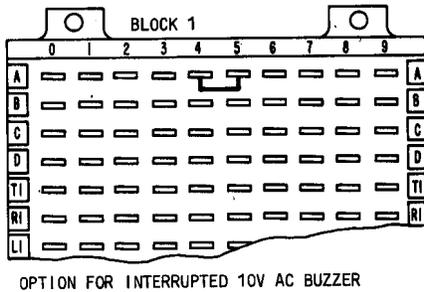


Fig. 13—E Option

ers when station codes are dialed. Option X consists of a strap on block 1 of the 626A panel between terminals 5 and 6 on row A.

**Note:** Do not use X option with a 494A KTU — damage to the KTU may result.

**H. G Option**

**4.13** The G option (Fig. 15) provides uninterrupted 10-volt ac power (single-spurt) to operate station buzzers when the station codes are dialed. When the selector KTU is the 424-type, only a 1-path intercom can be served; with the 494-type selector, the intercom can have 1, 2, or 3 paths (Table B). Option G may also be 18-volt alternating current, 24-volt direct

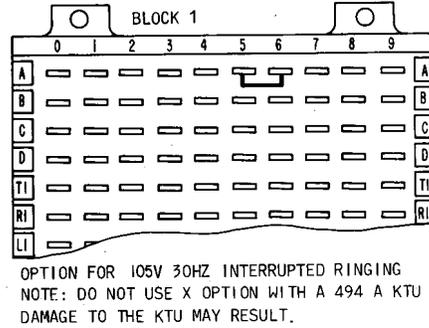


Fig. 14—X Option

current, ground, or other voltages that may be required for signaling purposes. When any potential (voltage or ground), other than 10-volt alternating current, is to be used for (uninterrupted single-spurt) signaling, the potential must be connected to block 1, row A, terminal 5 of the 626A panel by a separate lead. The duration of the single-spurt signal is adjustable on the 424-type KTU (see Section 518-215-402).

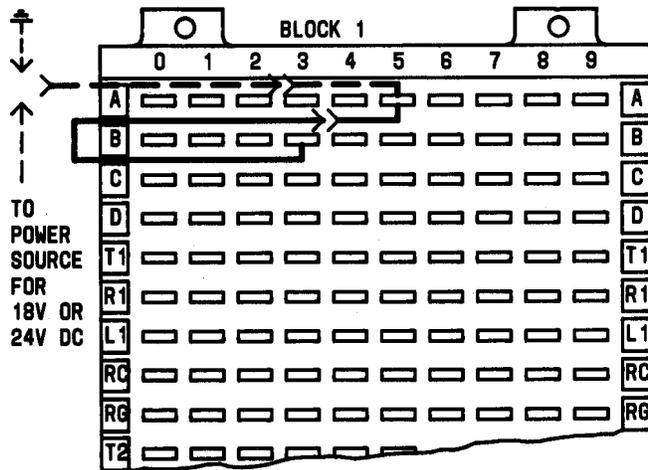


Fig. 15—G Option

## H. Preset Conference

4.14 Preset conference is a feature which permits up to five preselected intercom stations to be signaled simultaneously by dialing a predesignated code.

4.15 To connect preset conference, a lead is strapped from the R( ) terminal of the designated code to an external 66-type connecting block for distribution, via diodes (5 maximum), to the signaling leads of the selected conference stations. A typical preset conference arrangement is shown in Fig. 16. As illustrated in Fig. 16, stations 8, 18, 27, 28, and 29 are signaled when code 39 is dialed. In this arrangement, code 39 cannot be used as a station code.

4.16 When 10-volt ac signaling is used, the sound of the audible signal will be noticeably differ-

ent on a conference call than on a normal call due to the effect of the diode on the signal voltage.

## 5. MAINTENANCE

5.01 Maintenance of the 626A panel is limited to normal station repairs (including cable and inside wire), wiring checks of the panel, replacement of defective lamps and fuses, and replacement of defective KTUs. The internal circuitry of the 626A panel consists of a flexible printed board and requires no maintenance.

5.02 Before considering the replacement of the 626A panel, make a check of the following:

- Fuses in place and not blown
- Lamps properly seated and not burnt out

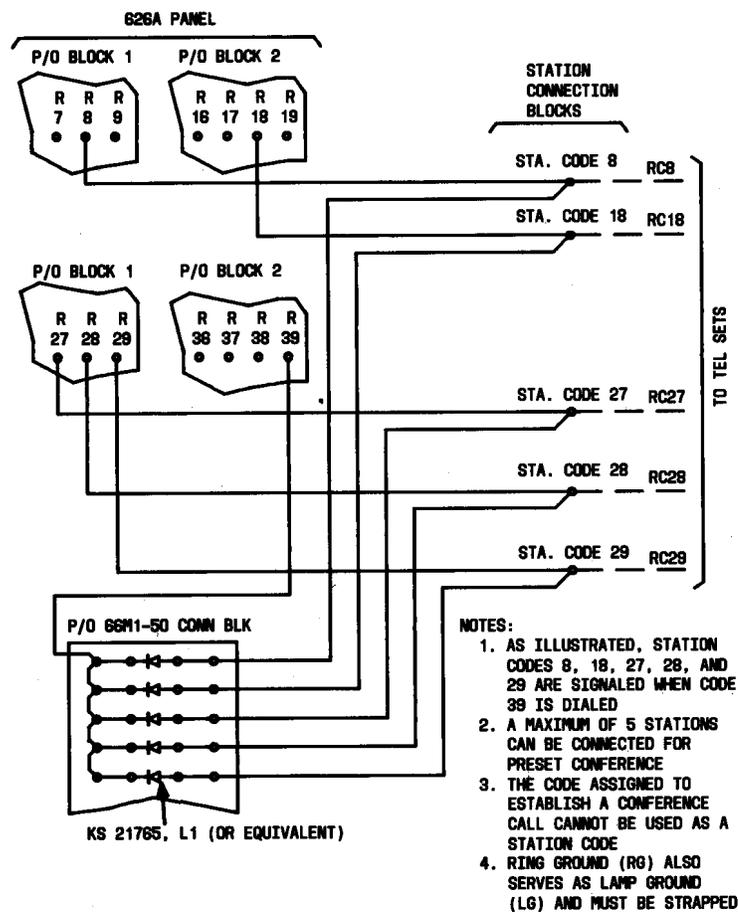


Fig. 16—Typical Preset Conference Arrangement

- KTUs securely mounted in proper connectors with retainers in place
- Wiring on connecting blocks not loose, broken, or shorted
- Power cable is securely connected
- Proper options have been connected.

**5.03** When it is suspected a KTU is defective, replace the KTU with one known to be in good working order. This will determine if the KTU is defective or if there is a trouble external to it. Should a replacement KTU not clear a trouble, the trouble is external and *the original KTU should be returned to service*. No field maintenance is to be performed on KTUs.

**5.04** KTU functions are as follows:

- **424-Type** — Basic selector-only 19-code rotary dial intercom circuit, capacity of a maximum of nineteen 1- and 2-digit codes. Provides single-spurt signaling for station selection (refer to CD- and SD-69567-01).
- **440A** — Adapter circuit used to convert the multifrequency signals (TOUCH-TONE) from the telephone to contact closures which supply ground to the proper leads of the 424-type selector (refer to CD- and SD-69906-01).
- **444-Type** — Extender circuit which expands the capacity of the 424- and 494-type KTUs to 37 codes by providing two additional transfer digits. The 444B is the same as the 444A (MD) except two option plugs have been added which have application in the 21A Communication System. The 444B should be used as supplied from the factory, ie, with the option plugs in position 2-3 and 5-6 (refer to CD- and SD-69653-01).

**Note:** The 424A (MD) is not compatible with the 444-type KTU.

- **454-Type** — 3-path access circuit containing three separate intercom paths. Provides dial tone, flashing lamps to all stations during station selection, and steady lamps during a busy condition. Provides talking

battery for all three intercom paths. Has the common control circuitry to connect the 424- or 494-type KTU to one path at a time. The 454-type KTU has a detect circuit to free the 424-type KTU at the proper time (refer to CD- and SD-69930-01).

- **460-Type** — 2-path access circuit with the same features as the 454-type KTU except it operates on two intercom paths (refer to CD- and SD-69652-01).
- **469A** — Lamp extender circuit to provide current to lamps 0-19 of 37-code single-path intercom. This is a 4-inch KTU and, when used in the 626A panel, requires the installation of a guide assembly over connector J2B (refer to CD- and SD-69559-01).
- **478B** — Adapter circuit used to convert the multifrequency signals (TOUCH-TONE) from the telephone to supply ground to the proper leads of the 424-type selector. When used with the 626A panel, Y (factory-provided) option must be provided on the 478B KTU. Can be used with the 626A panel in place of the 440A KTU (refer to CD- and SD-69931-01).
- **494A** — TOUCH-TONE Selector circuit which provides basic TOUCH-TONE only intercom service for 19 codes. It has single-spurt ringing, 10-volt ac buzzers and line busy lamps. The 494A KTU also has low-frequency dial tone, capability of expansion to 37 codes, and can be used for multipath intercom arrangements when used in conjunction with the 454- and 460-type KTUs. Screw switches S1 and S2 allow disconnection of the internal battery feed circuit for operation in button-per-path intercom arrangements. For single-path intercoms, the switches must be closed to supply talking battery to the tip and ring leads. This unit cannot be used for deluxe intercom arrangements (refer to CD- and SD-69567-01).
- **494B** — Same as 494A except it provides either rotary or TOUCH-TONE selection for intercom service and does not provide dial tone in single-spurt path intercoms.♦

**5.05** As an aid for maintenance, Fig. 17 is provided to identify the terminals of the connecting

blocks in the 626A panel. The letters above the terminals are the terminal designations. The terminals are symbolized in order to identify them with a connector. The numbers below the terminals indicate the

pin number of the connector. An asterisk below the terminal indicates the terminal is connected to the power cable.

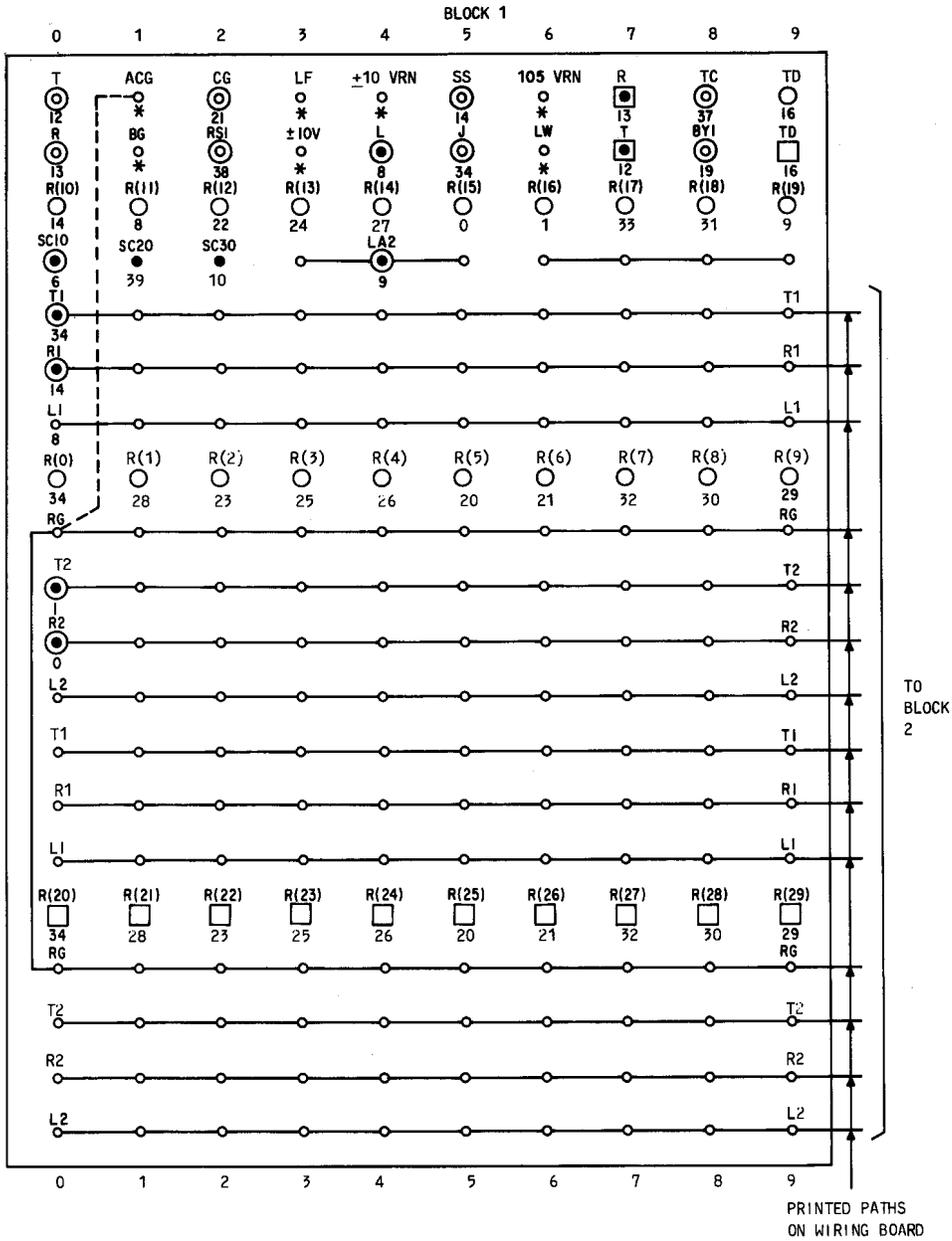


Fig. 17—Connecting Block Terminal Identification (Sheet 1 of 3)

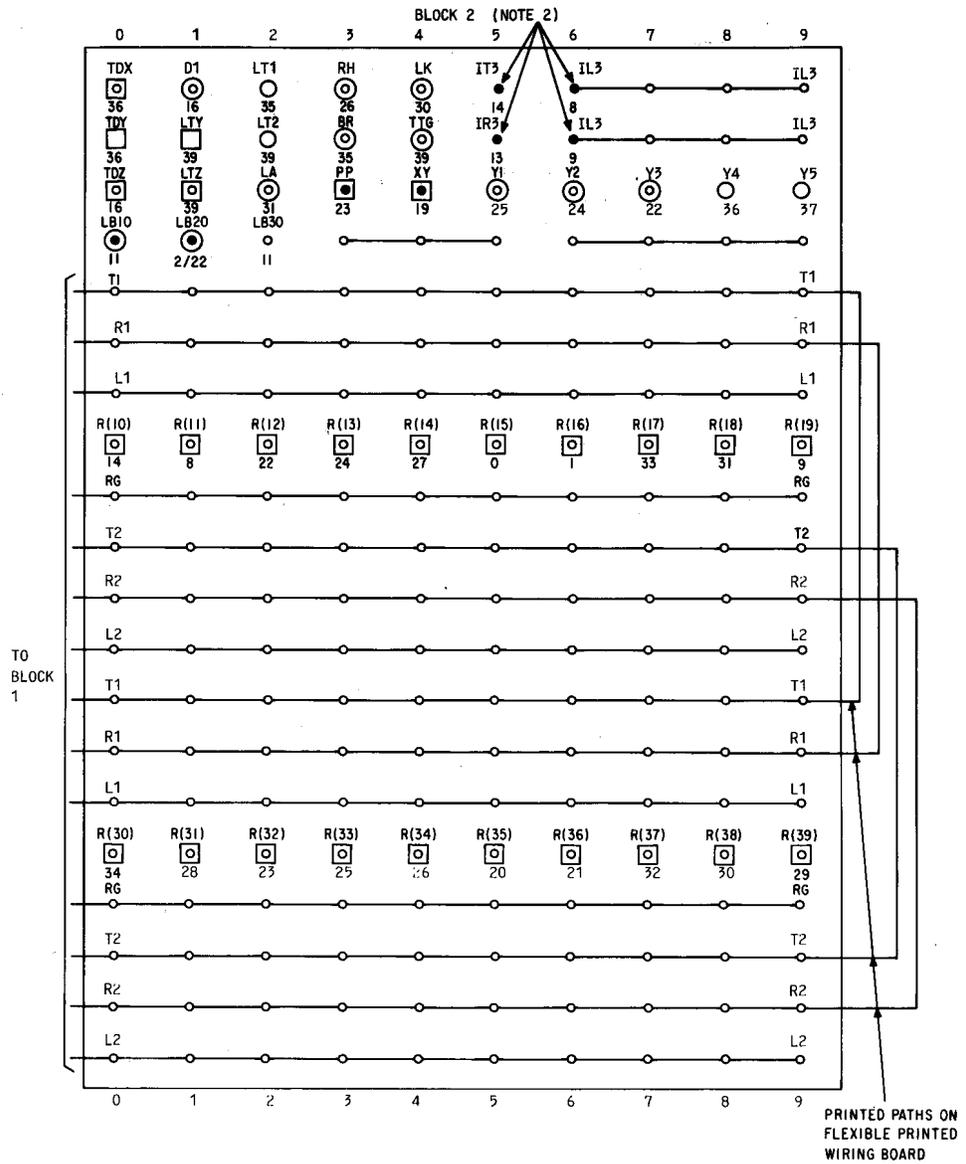


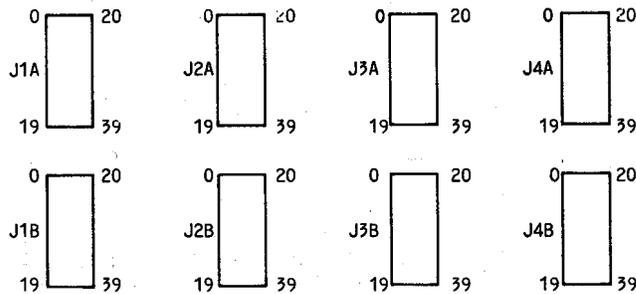
Fig. 17—Connecting Block Terminal Identification (Sheet 2 of 3)

NOTES:

1. NUMBERS UNDER TERMINALS DESIGNATE CONNECTOR PINS (SEE LEGEND).  
UNNUMBERED TERMINALS APPEAR ON TERMINAL BLOCKS ONLY.

LEGEND	
CONNECTOR	TERMINAL SYMBOL
J1A	○
J1B*	⊙
J2A	●
J2B	⊗
J3A	□
J3B	⊠
J4B	⊡
POWER CABLE TERMINALS	*

2. AN AUXILIARY CONNECTING BLOCK IS REQUIRED WHEN THIRD INTERCOM PATH IS USED IN ORDER TO TERMINATE THE IT3, IR3, AND IL3 LEADS.
3. CONNECTOR ARRANGEMENT:



914B CONNECTORS

Fig. 17—Connecting Block Terminal Identification (Sheet 3 of 3)