

TELEPHONE SETS — 2568HP/HU

IDENTIFICATION, INSTALLATION, CONNECTIONS, AND MAINTENANCE



Fig. 1 — 2568HP (MD) and 2568HU Telephone Set

1. GENERAL

1.01 The 2568-type telephone set (Fig. 1) is intended solely for use with specially engineered lines — **not for general telephone use.**

1.02 This section is reissued to:

- Add 425K network (2568HU)
- Include connections formerly found in Section 529-225-468
- Revise Tables
- Revise set connection figures

Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

2. IDENTIFICATION

ORDERING GUIDE

Set, Telephone, 2568HP-* (MD)

Set, Telephone, 2568HU-*

(a) Replaceable Common Components

- Cord, Mounting D50N-*
- Key, 636D
- Lamp, 51A
- P-12A858 Blocking Ring (Shipped loose)
- P-21F159 Switch Assembly (Line)
- P-25E118 Switch Assembly (Exclusion)
- P-25E120 Button and Collar Assembly
- P-25E785 Card Retainer
- P-86D7* Faceplate
- P-90D052 Guard Assembly
- Set, Hand, G3Y-*

(b) Replaceable Components [2568HP (MD) only]

- Dial, 35C3B
- P-25E963 Relay Assembly (4-wire)
- P-88B9* Housing Assembly
- Ringer, H1A

(c) Replaceable Components (2568HU only)

- Dial, 35C3A
- P-88E5* Housing Assembly
- P-90D062 Printed Wiring Board Assembly (4-wire relay)
- P-90D064 Bracket, Arm, and Component Assembly (includes N1A Ringer)

* Add appropriate color suffix from Table A.

(d) Replaceable Optional Components

- Buzzer, KS-8109L2

TABLE A**TELEPHONE SET AND FACEPLATE COLOR GUIDE**

| TELEPHONE SET* | | FACEPLATE | |
|----------------|--------|-------------------|--------|
| STANDARD COLOR | SUFFIX | COORDINATED COLOR | SUFFIX |
| Black | -03 | Charcoal | -70 |
| Green | -51 | Lt. Green | -71 |
| Red | -53 | Muted Red | -69 |
| Yellow | -56 | Lt. Yellow | -72 |
| White | -58 | Lt. Gray | -73 |
| Rose Pink | -59 | Muted Pink | -74 |
| Lt. Beige | -60 | Muted Beige | -75 |
| Lt. Gray | -61 | Charcoal | -70 |
| Aqua Blue | -62 | Muted Blue | -76 |
| Turquoise | -64 | Muted Turquoise | -77 |

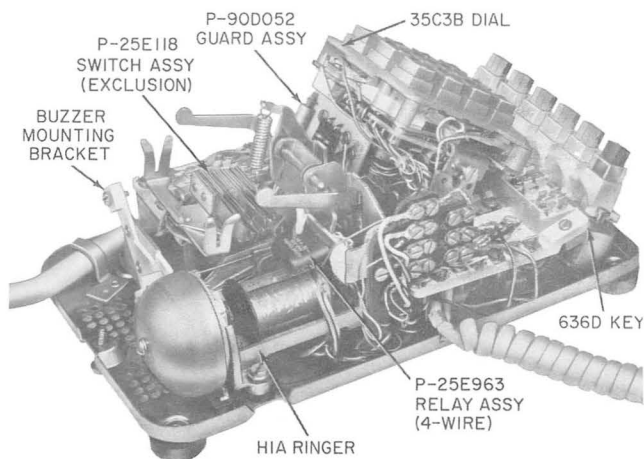
* Refer to Section 500-120-100 for promoted colors.

DESIGN FEATURES

- 2- and 4-wire operation
- 5-line pickup (illuminated key buttons)
- Hold on all lines (key button arranged for but not equipped with 51A lamp for illumination)
- Three pickup keys convertible for signaling
- Common ringer
- Extension exclusion
- End-to-end signaling
- Six transfer switch hook
- AC or DC operated buzzer (optional)
- Speakerphone (optional)

APPLICATION

- Central Office, PBX, and private or inter-communicating 2- and 4-wire lines
- 1A1, 1A2, and 6A key telephone system line circuits

**Fig. 2 — 2568HP (MD) Telephone Set, Housing Removed****OPERATING FEATURES**

- Exclusion Switch:** operated by left line switch plunger (pull up to operate exclusion; depress to restore).
- Ringer Volume Control:** provides manual control of ringer volume [accessible from bottom of 2568HP (MD) set, left side of 2568HU set].

OPTIONAL FEATURES

- Buzzer:** a KS-8109L2 or equivalent buzzer may be mounted on the bracket provided (Fig. 2 and 3).

3. INSTALLATION**(a) Planning**

- Consider safety for yourself, customer, and maintenance personnel
- Location — desk, table, console, etc.
- Space requirements
- Distance between associated apparatus and equipment
- User convenience
- General appearance of installation

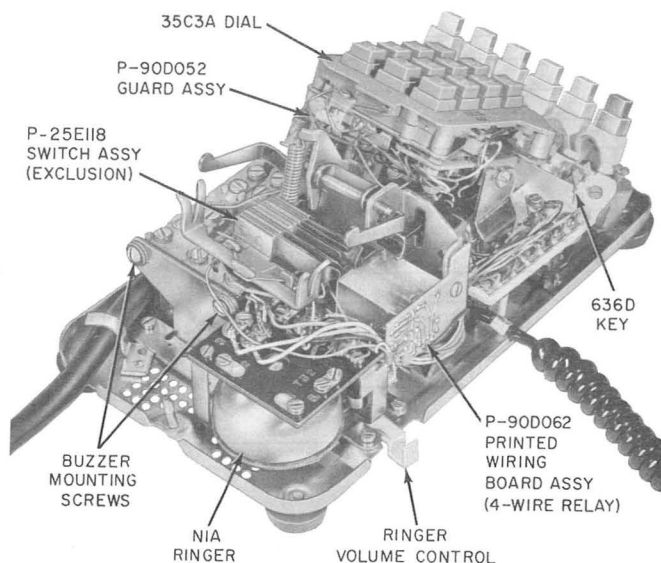


Fig. 3 — 2568HU Telephone Set, Housing Removed

(b) Installing

- Install sets in accordance with standard installation procedures.
- Use electricians scissors or diagonal cutting pliers to remove insulators from stored spade-tipped leads (to avoid stripping tips or damaging conductors) when optional connections are made.
- Install the KS-8109L2 buzzer (ordered separately) on mounting bracket using hardware provided. Make sure buzzer is insulated from metal base of set.

4. CONNECTION INDEX



No changes in wiring other than those specified in this section shall be made.

Table B — Pickup-Signal Key Conversion

Table C — Exclusion Conversion

Table D — Speakerphone Connections

Table E — Conductor Assignments Using 66E-Type Connecting Block or A25B Connector Cable

Table F — 2568HU Telephone Set Ringer or Buzzer Connections

Table G — 2568HP (MD) Telephone Set Ringer or Buzzer Connections

Fig. 4 — 2568HU Telephone Set, Connections

Fig. 5 — 2568HP (MD) Telephone Set, Connections

Fig. 6 — Buzzer Connections

Refer to SD-69487-01 for connections to speakerphone system

5. MAINTENANCE

- These sets are maintained in accordance with standard procedures for TOUCH-TONE® key telephone sets.
- See appropriate sections for maintenance of individual components such as handsets, ringers, and dials.

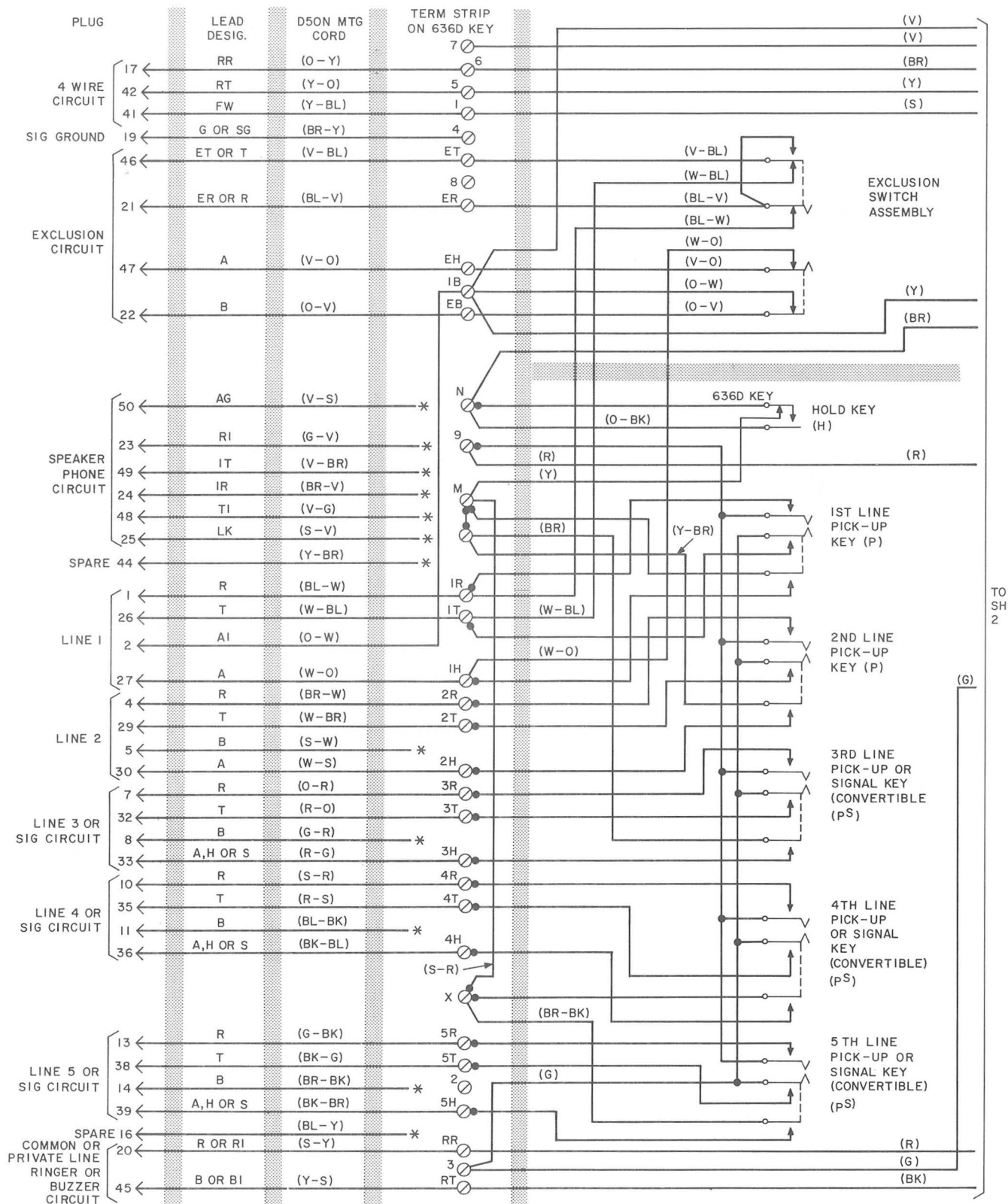


Fig. 4 — 2568HU Telephone Set, Connections (Sheet 1 of 2)

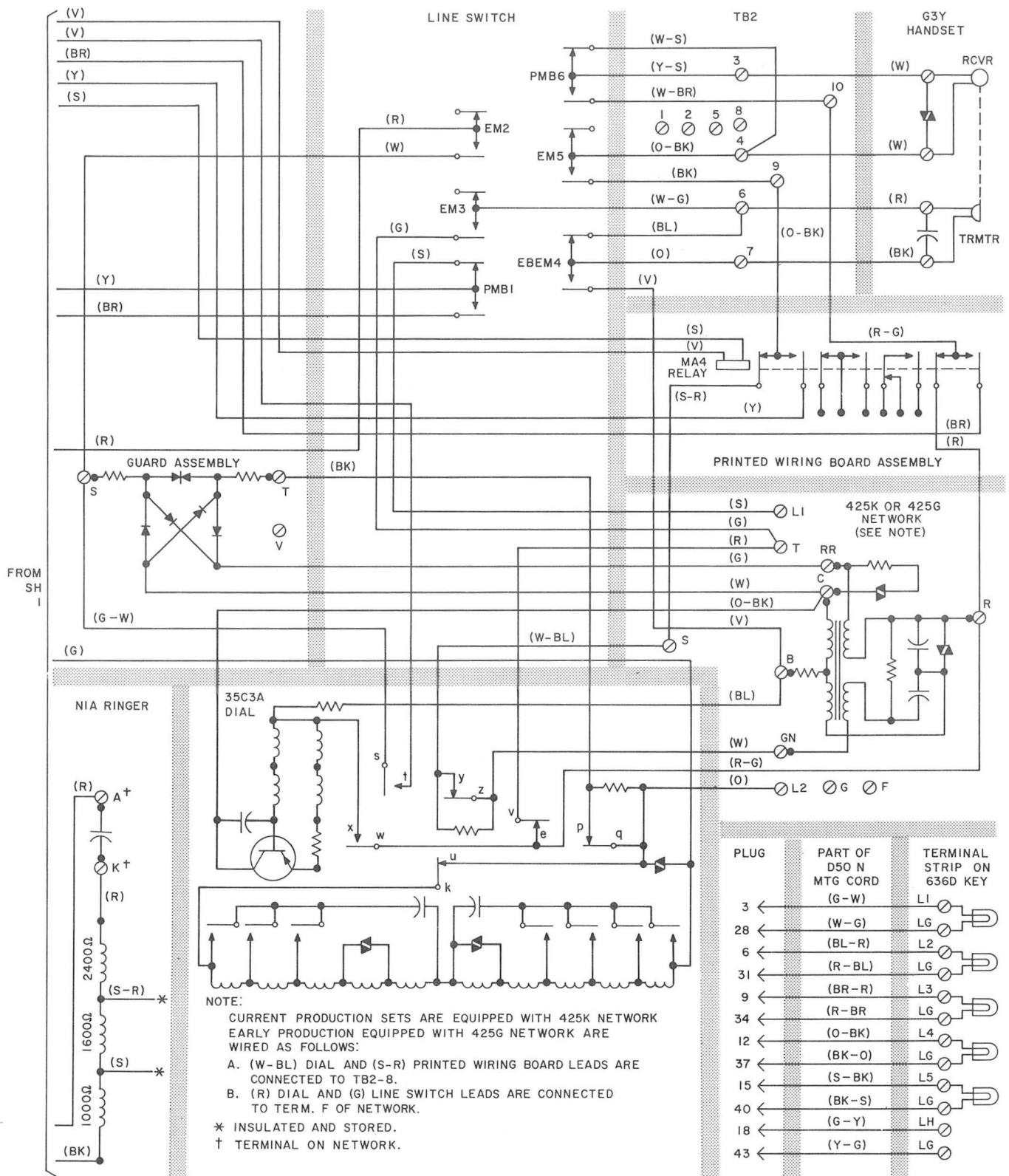


Fig. 4 — 2568HU Telephone Set, Connections (Sheet 2 of 2)

SECTION 529-225-134

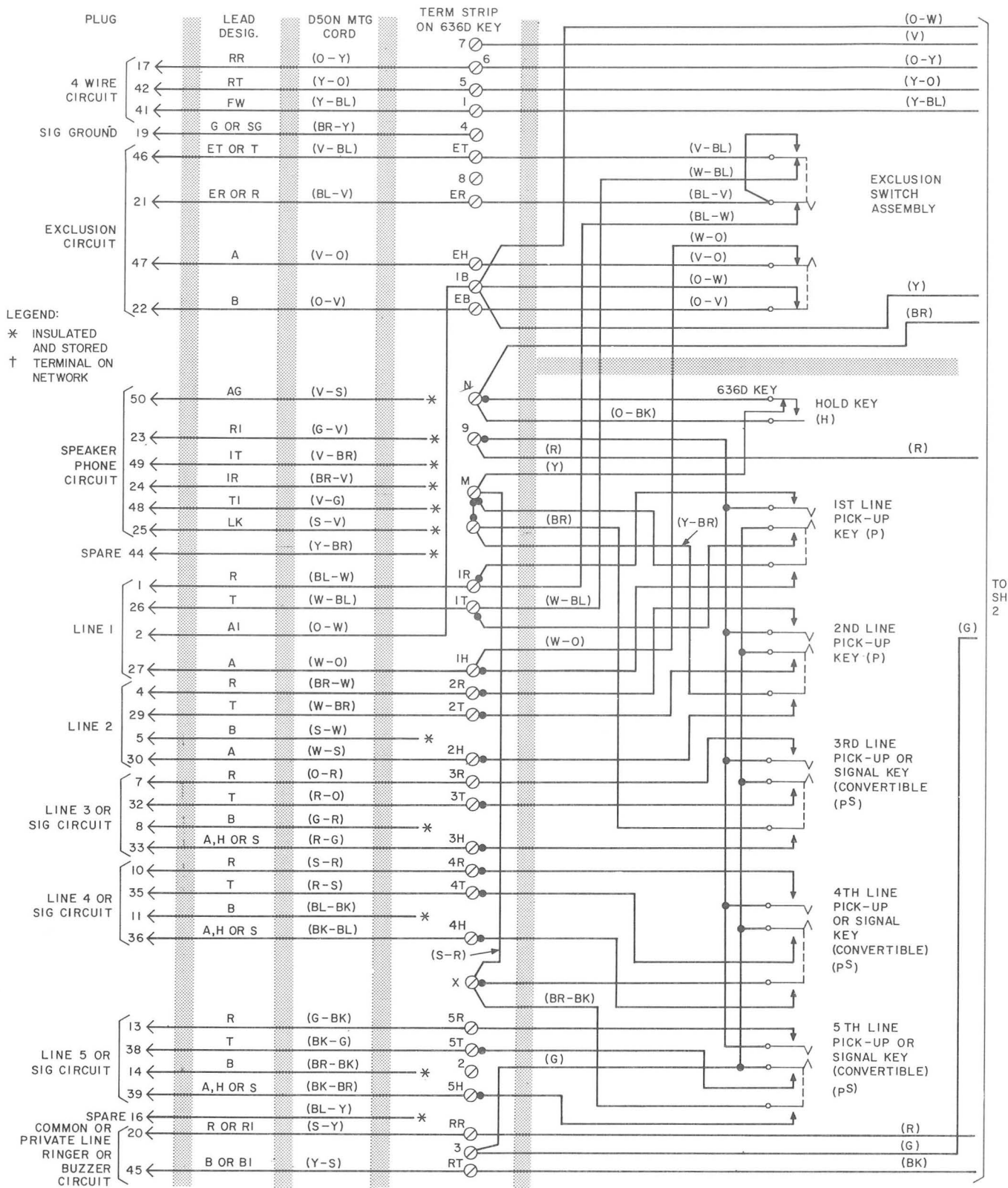


Fig. 5 — 2568HP (MD) Telephone Set, Connections (Sheet 1 of 2)

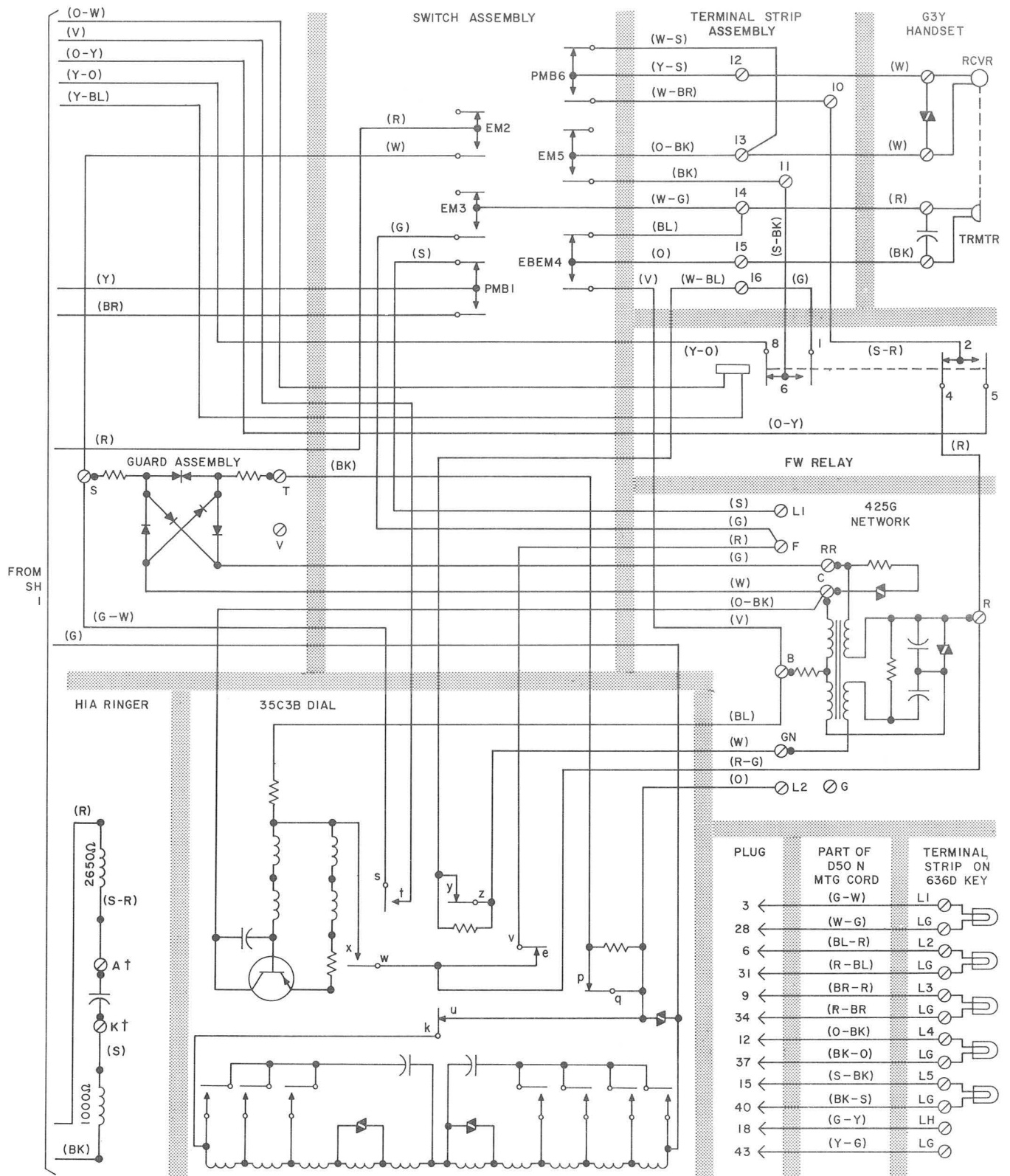


Fig. 5 — 2568HP (MD) Telephone Set, Connections (Sheet 2 of 2)

TABLE B
PICKUP-SIGNAL KEY CONVERSION*

| CONVERTIBLE-KEY OPTIONS | KEY LEADS | | |
|-------------------------|-----------|-----|-------|
| | BR | S-R | BR-BK |
| HPPPPP | M | M | X |
| HPPPPS | M | M | 4 |
| HPPPSS | M | 4 | X |
| HPPSSS | X | 4 | X |

* All convertible key positions are arranged in the shop as pickup positions. To convert a key position from pickup (locking) to signal (non-locking), remove the P-12A892 screw detail and make necessary connection changes. To convert a key position from nonlocking to locking, reverse above procedure. When using convertible keys for signaling, use S lead of key involved for signal circuit and G lead for common signal ground.

TABLE C
EXCLUSION CONVERSION

| EXCLUSION OPTION | EXCLUSION KEY LEADS | | |
|------------------|---------------------|------|-----|
| | BL-W | W-BL | W-O |
| Line 1 (2-wire)* | 1R | 1T | 1H |
| Line 2 (2-wire) | 2R | 2T | 2H |
| Line 3 (2-wire) | 3R | 3T | 3H |
| Line 4 (2-wire) | 4R | 4T | 4H |
| Line 5 (2-wire) | 5R | 5T | 5H |
| 4-wire† | ‡ | ‡ | ‡ |

* Set is shop wired to provide exclusion for 2-wire service on line 1.

† Connect ET(V-BL) and ER(BL-V) from set to external pickup relay associated with control station.

‡ Individually insulate and store.

TABLE D
SPEAKERPHONE CONNECTIONS

| MOUNTING CORD LEAD | | CONNECT TO TEL SET TERMINAL |
|--------------------|-------|-----------------------------|
| COLOR | DESIG | |
| G-V | R1 | 9 |
| V-G | T1 | T (Polarity Guard) |
| BR-V | IR | 7 |
| V-BR | IT | * |
| S-V | LK | L1 (ON Network) |
| V-S | AG | N |

* Insulated and stored.

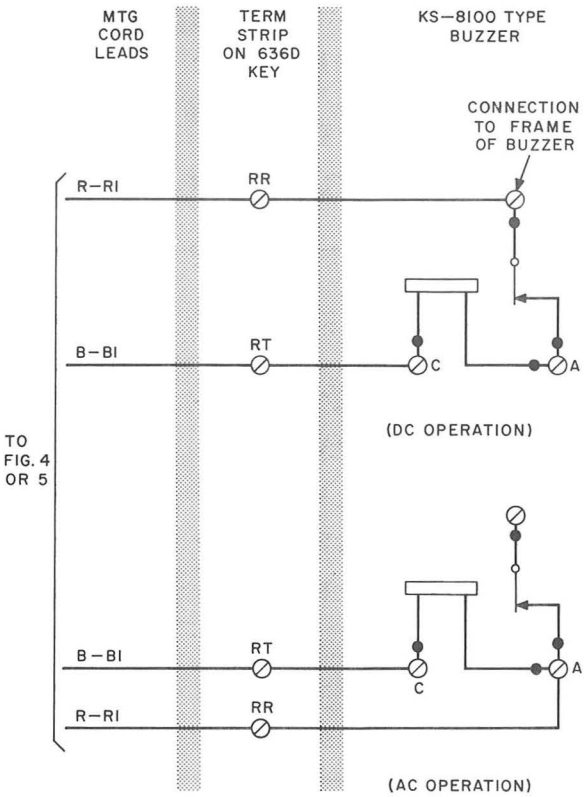


Fig. 6 — Buzzer Connections

TABLE E

CONDUCTOR ASSIGNMENTS USING 66E-TYPE CONNECTING BLOCK OR A25B CONNECTOR CABLE

| LEAD DESIG | MOUNTING CORD | | | A25B CONNECTOR CABLE | | | 66E-TYPE CONNECTING BLOCK | |
|---------------|-------------------|---------------------|------------|--------------------------------|--------------------|------------|------------------------------|--------------|
| | CORD CONDUCTOR | TEL SET TERMINAL | PIN NO. | CONNECTOR CABLE PAIR NO. | CONDUCTOR COLOR | PIN NO. | CLIP TERMINAL NO. | BLOCK NO. |
| T | W-BL | 1T | 26 | 1 | W-BL | 26 | 1 | 1 |
| R | BL-W | 1R | 1 | | BL-W | 1 | 2 | |
| A | W-O | 1H | 27 | 2 | W-O | 27 | 3 | |
| A1 | O-W | 1B | 2 | | O-W | 2 | 4 | |
| LG | W-G | LG | 28 | 3 | W-G | 28 | 5 | |
| L1 | G-W | L1 | 3 | | G-W | 3 | 6 | |
| T | W-BR | 2T | 29 | 4 | W-BR | 29 | 7 | |
| R | BR-W | 2R | 4 | | BR-W | 4 | 8 | |
| A | W-S | 2H | 30 | 5 | W-S | 30 | 9 | |
| B | S-W | * | 5 | | S-W | 5 | 10 | |
| LG | R-BL | LG | 31 | 6 | R-BL | 31 | 11 | 2 |
| L2 | BL-R | L2 | 6 | | BL-R | 6 | 12 | |
| T | R-O | 3T | 32 | 7 | R-O | 32 | 13 | |
| R | O-R | 3R | 7 | | O-R | 7 | 14 | |
| A, H, or S | R-G | 3H | 33 | 8 | R-G | 33 | 15 | |
| B | G-R | * | 8 | | G-R | 8 | 16 | |
| LG | R-BR | LG | 34 | 9 | R-BR | 34 | 17 | |
| L3 | BR-R | L3 | 9 | | BR-R | 9 | 18 | |
| T | R-S | 4T | 35 | 10 | R-S | 35 | 19 | |
| R | S-R | 4R | 10 | | S-R | 10 | 20 | |
| A, H, or S | BK-BL | 4H | 36 | 11 | BK-BL | 36 | 21 | 3 |
| B | BL-BK | * | 11 | | BL-BK | 11 | 22 | |
| LG | BK-O | LG | 37 | 12 | BK-O | 37 | 23 | |
| L4 | O-BK | L4 | 12 | | O-BK | 12 | 24 | |
| T | BK-G | 5T | 38 | 13 | BK-G | 38 | 25 | |
| R | G-BK | 5R | 13 | | G-BK | 13 | 26 | |
| A, H, or S | BK-BR | 5H | 39 | 14 | BK-BR | 39 | 27 | |
| B | BR-BK | * | 14 | | BR-BK | 14 | 28 | |
| LG | BK-S | LG | 40 | 15 | BK-S | 40 | 29 | |
| L5 | S-BK | L5 | 15 | | S-BK | 15 | 30 | |
| FW | Y-BL | 1 | 41 | 16 | Y-BL | 41 | 31 | 4 |
| Spare | BL-Y | * | 16 | | BL-Y | 16 | 32 | |
| RT | Y-O | 5 | 42 | 17 | Y-O | 42 | 33 | |
| RR | O-Y | 6 | 17 | | O-Y | 17 | 34 | |
| | Y-G | LG | 43 | 18 | Y-G | 43 | 35 | |
| | G-Y | LH | 18 | | G-Y | 18 | 36 | |
| Spare | Y-BR | * | 44 | 19 | Y-BR | 44 | 37 | |
| G or SG | BR-Y | 4 | 19 | | BR-Y | 19 | 38 | |
| B or B1 | Y-S | RT | 45 | 20 | Y-S | 45 | 39 | |
| R or R1 | S-Y | RR | 20 | | S-Y | 20 | 40 | |
| ET or T | V-BL | ET | 46 | 21 | V-BL | 46 | 41 | 5 |
| ER or R | BL-V | ER | 21 | | BL-V | 21 | 42 | |
| A | V-O | EH | 47 | 22 | V-O | 47 | 43 | |
| B | O-V | EB | 22 | | O-V | 22 | 44 | |
| T1 | V-G | *† | 48 | 23 | V-G | 48 | 45 | |
| R1 | G-V | *† | 23 | | G-V | 23 | 46 | |
| IT | V-BR | *† | 49 | 24 | V-BR | 49 | 47 | |
| IR | BR-V | *† | 24 | | BR-V | 24 | 48 | |
| AG | V-S | *† | 50 | 25 | V-S | 50 | 49 | |
| LK | S-V | *† | 25 | | S-V | 25 | 50 | |

*Leads individually insulated and stored.

†For speakerphone feature, terminate these leads as shown in Table D.

TABLE F

2568HU TELEPHONE SET RINGER OR BUZZER CONNECTIONS

| OPTION | | N1A RINGER LEADS | | | | | BUZZER | |
|--|--------------------|------------------|---|-----------|----|----------------------|----------------------------------|----|
| | | S-R | S | R | BK | STRAP (R) BETWEEN | CONNECT USING M1W CORD OR EQUIV. | |
| Bridged ringer on any line | | * | * | K of net. | T† | A of network and R† | | |
| Common or private line ringer or buzzer§ | With Capacitor | * | * | K of net. | RT | A of network and RR‡ | | |
| | Without Capacitor§ | * | * | A of net. | RT | A of network and RR‡ | RT | RR |
| Ringer permanently silenced | | * | * | K of net. | * | A of network and RR‡ | | |

* Individually insulated and stored.

† Terminals of line involved.

‡ RR terminal on terminal strip.

§ Connect ringer without capacitor as common, private, or intercommunicating line signal unless otherwise directed.

Note: Connect KS-8100 type buzzer in place of set ringer (Fig. 6).

TABLE G

2568HP (MD) TELEPHONE SET RINGER OR BUZZER CONNECTIONS

| OPTION | | H1A RINGER LEADS | | | | BUZZER | |
|--|-------------------|------------------|-----------|-----|----|----------------------------------|----|
| | | S-R | S | R | BK | CONNECT USING M1W CORD OR EQUIV. | |
| Bridged ringer on any line | | A of net. | K of net. | R† | T† | | |
| Common or private line ringer or buzzer§ | With Capacitor | A of net. | K of net. | RR‡ | RT | | |
| | Without Capacitor | A of net. | A of net. | RR‡ | RT | RR‡ | RT |
| Ringer permanently silenced | | A of net. | K of net. | * | * | | |

* Individually insulated and stored.

† Terminals of line involved.

‡ RR terminal on terminal strip.

§ Connect ringer without capacitor as common, private, or intercommunicating line signal unless otherwise directed.

Note: Connect KS-8100 type buzzer in place of set ringer (Fig. 6).