

INTERPHONE SYSTEM—1A HOME 752-TYPE TELEPHONE SET CONNECTIONS AND MAINTENANCE

1. GENERAL

1.01 This section contains conversion and connection information for the 752-type telephone set for use with 1A home interphone in conjunction with 3-type speakerphone. Connection information is also given for home interphone *without* speakerphone feature, but in such cases, it is recommended that the 754-type telephone set be used.

1.02 This section is reissued to:

- Change section reference in 3.01
- Change reference to Tables, Fig. 2 notes

1.03 Operation with the 1A home interphone system requires installation of a 664B transmitter, ordered separately (Fig. 1).

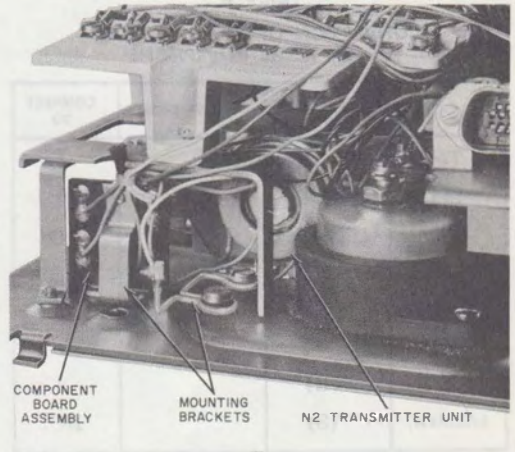


Fig. 1—664B Transmitter, Installed



The loudspeaker circuit is controlled by the speakerphone control unit. With speakerphone OFF, the speaker is connected to the interphone circuit; with speakerphone ON, the speaker is transferred to the speakerphone circuit.



Current production models are equipped with the 3B cord reel. Either the 3A or 3B cord reel may be used when the telephone set is not subjected to temperatures below 40 degrees F. Below 40 degrees F only the 3A cord reel should be used.

2. CONNECTION INDEX

Table A—Conversion of Telephone Set For 1A Home Interphone

Table B—Pickup Signal Key Conversion

Table C—Disconnecting Speakerphone Feature

Table D—Ringer or Buzzer Connections

Table E—Conductor Assignments Using 75A Connecting Block or A25B Connector Cable

Fig. 2—752-Type Telephone Set Connections Wired for 1A Home Interphone

Fig. 3—752-Type Telephone Set, Connections To 1A Home Interphone and 3-Type Speakerphone System

3. MAINTENANCE

3.01 ♦ Refer to Division 502 for maintenance information for the 752-type telephone sets. Refer to Division 512 for home interphone system requirements and maintenance information. ♦

3.02 Maintenance of the home interphone components of these sets (Fig. 1) is limited to replacement of defective units.

TABLE A
CONVERSION OF TELEPHONE SET
FOR 1A HOME INTERPHONE*

| TEL SET LEADS | | REMOVE FROM | CONNECT TO |
|---------------|---------|-------------|------------|
| Tel | (G-BK) | 5R | 1 |
| Set | (BK-G) | 5T | 2 |
| Plug | (BR-BK) | † | DC2 |
| Key | (BR-BK) | X | 4T |
| 664 | (W) | | 1 |
| TRMTR | (R) | | 2 |
| (Added) | (S) | | DC1 |

* Convert 5th pickup key to signal (for door answering).

† Stored location

TABLE B
PICKUP SIGNAL KEY CONVERSION

| CONVERSION OPTIONS | 635A2 KEY LEADS | | |
|--------------------|-----------------|------|---------|
| | (Y-BR) | (BR) | (BR-BK) |
| HPPP P (I) S (A) | M | M | 4T |
| HPPS P (I) S (A) | M | SG | 4T |
| HPSS P (I) S (A) | SG | SG | 4T |
| HPP*S* P (I) S (A) | 3H | SG | 4T |

P (I) — Home interphone pickup key.

S (A) — Door answering signal key.

* See Note 2.

Notes:

1. Convert 5th pickup key to signal (non-locking) for door answering by removing the P-28E773 locking pin from plunger.
2. This option uses 2nd pickup key for private or intercommunicating line and 3rd key converted to signal.

TABLE C
DISCONNECTING SPEAKERPHONE FEATURES (See Note)

| | TEL SET COMPONENT LEADS | | | | | SPEAKERPHONE COMPONENT LEADS | | | | | |
|------------------|-------------------------|-------|-------|-----|-----|------------------------------|--------|-------|----------------------|-------|--------|
| | TEL SET PLUG | | DIAL | | | SWITCH ASSEMBLY | | | PRINTED WIRING BOARD | | |
| Conductor color | (V-G) | (G-V) | (V-S) | (Y) | (Y) | (Y-BL) | (BL-Y) | (O-Y) | (Y-O) | (S-Y) | (S-BK) |
| Disconnect from* | RR† | R1 | AG | 7 | 8 | S | F1 | P1 | M2 | M2 | M1 |

* Terminals on the telephone set terminal board.

† RR terminal on network.

Note: When speakerphone feature of set is not required, but set is multiplied with a set providing speakerphone operation, disconnect, insulate and store these leads to avoid interference with working circuits. If interference continues, disconnect leads at multiplying point as near as possible to speakerphone control unit.

TABLE D
RINGER OR BUZZER CONNECTIONS

| OPTION | | LEADS | | | | | | | BUZZER§ | |
|---|-------------------|--------|------|-------|-----|------|----------|-----|---------|--|
| | | RINGER | | | | | STRAP | | | |
| | | (R) | (BK) | (S-R) | (S) | (BL) | (R) | | | |
| Bridged Ringer on any Line | | K | T* | † | † | † | A to R* | | | |
| Common or Private Line Ringer or Buzzer | With Capacitor | K | RT | † | † | † | A to RR‡ | | | |
| | Without Capacitor | A | RT | † | † | † | A to RR‡ | RR‡ | RT | |
| Ringer Permanently Silenced | | K | K | † | † | † | A to K | | | |

* Terminal of line involved.

† Individually insulated and stored.

‡ RR terminal on terminal board.

§ Connect buzzer in place of ringer using twisted pair station wire.

SECTION 512-510-410

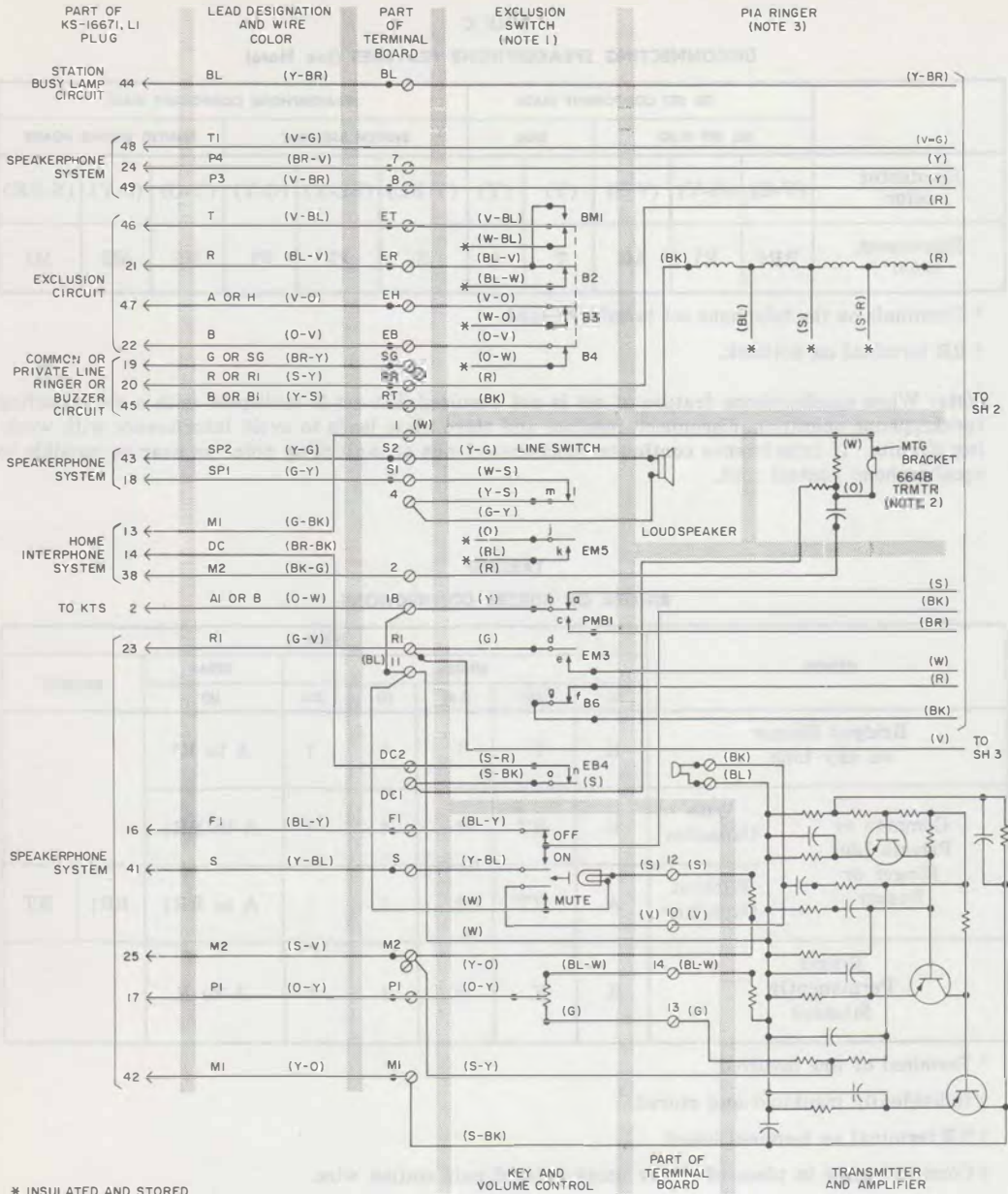
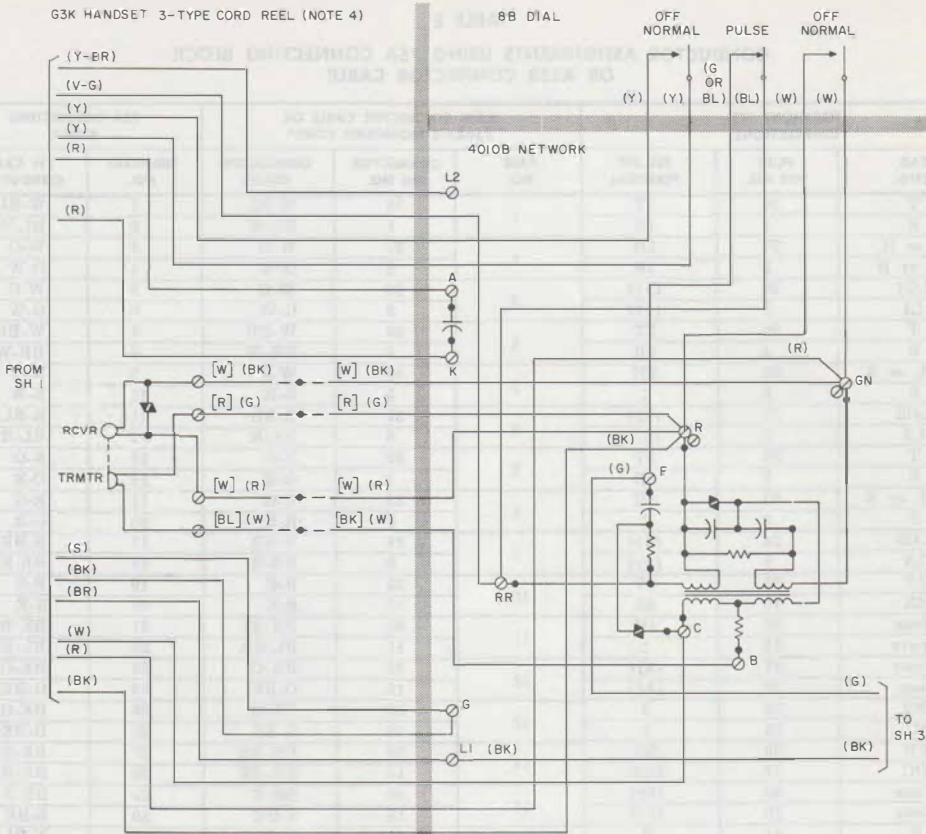


Fig. 2—752-Type Telephone Set Connections, Wired for 1A Home Interphone (Sheet 1 of 3)



NOTES:

1. REFER TO APPROPRIATE SECTION IN DIVISION 502 FOR EXCLUSION SWITCH CONNECTIONS IF REQUIRED.
2. CONNECT 664B TRANSMITTER (ORDERED SEPARATELY) AS SHOWN IN TABLE A.
3. REFER TO TABLE D FOR OPTIONAL RINGER OR BUZZER CONNECTIONS. RINGER MUST BE CONNECTED WITH CAPACITOR IN CIRCUIT WHEN COMMON AUDIBLE SIGNAL POWER FAILURE FEATURE IS PROVIDED. CONNECT RINGER WITHOUT CAPACITOR AS COMMON, PRIVATE, OR INTERCOMMUNICATING LINE SIGNAL EXCEPT WHERE LOCAL INSTRUCTIONS DIRECT OTHERWISE.
4. [] DENOTES 3A CORD REEL LEAD COLORS.
() DENOTES 3B CORD REEL LEAD COLORS.
5. EARLY PRODUCTION SETS DIFFER AS FOLLOWS:
A. LAMP LEADS ARE SOLDERED TO APPROPRIATE L AND LG TERMINALS ON TERMINAL BOARD.
B. SPARE TERMINALS 3, 5, 6, 2H, 3R, 3T, 3H, 4R, 4H, 5H, AND T1 MAY BE EQUIPPED WITH SCREWS.

C. KEY PLUG IDENTIFICATION COLOR

| KEY PLUG | EARLY PRODUCTION | CURRENT PRODUCTION |
|----------------------|------------------|--------------------|
| HOLD | YELLOW | PINK |
| 1ST LINE | BLUE | BLUE |
| 2ND LINE | BEIGE | ORANGE |
| 3RD LINE | RED | GREEN |
| HOME INTERPHONE LINE | GRAY | BROWN |
| DOOR ANSWER | GREEN | SLATE |

Fig. 2—752-Type Telephone Set Connections, Wired for 1A Home Interphone (Sheet 2 of 3)

TABLE E
CONDUCTOR ASSIGNMENTS USING 75A CONNECTING BLOCK
OR A25B CONNECTOR CABLE

| TELEPHONE SET CONNECTIONS | | | A25B CONNECTOR CABLE OR D50AA-3 MOUNTING CORD* | | | 75A CONNECTING BLOCK | |
|---------------------------|--------------|------------------|--|-------------------|-----------------|----------------------|--------------------|
| LEAD DESIG. | PLUG PIN NO. | TEL SET TERMINAL | PAIR NO. | CONNECTOR PIN NO. | CONDUCTOR COLOR | TERMINAL NO. | 1W CABLE CONDUCTOR |
| T | 26 | 1T | 1 | 26 | W-BL | 1 | W-BL |
| R | 1 | 1R | | 1 | 1 | BL-W | 2 |
| A or H | 27 | 1H | 2 | 27 | W-O | 3 | W-O |
| A1 or B | 2 | 1B | | 2 | 2 | O-W | 4 |
| LG1 | 28 | (1)† | 3 | 28 | W-G | 5 | W-G |
| L1 | 3 | (1)† | | 3 | 3 | G-W | 6 |
| T | 29 | 2T | 4 | 29 | W-BR | 7 | W-BR |
| R | 4 | 2R | | 4 | 4 | BR-W | 8 |
| A, H, or S | 30 | 2H | 5 | 30 | W-S | 9 | W-S |
| B | 5 | ‡ | | 5 | 5 | S-W | 10 |
| LG2 | 31 | (2)† | 6 | 31 | R-BL | 11 | R-BL |
| L2 | 6 | (2)† | | 6 | 6 | BL-R | 12 |
| T | 32 | 3T | 7 | 32 | R-O | 13 | R-O |
| R | 7 | 3R | | 7 | 7 | O-R | 14 |
| A, H, or S | 33 | 3H | 8 | 33 | R-G | 15 | R-G |
| B | 8 | ‡ | | 8 | 8 | G-R | 16 |
| LG3 | 34 | (3)† | 9 | 34 | R-BR | 17 | R-BR |
| L3 | 9 | (3)† | | 9 | 9 | BR-R | 18 |
| 2T | 35 | 4T | 10 | 35 | R-S | 19 | R-S |
| 2R | 10 | 4R | | 10 | 10 | S-R | 20 |
| None | 36 | 4H | 11 | 36 | BK-BL | 21 | BK-BL |
| Spare | 11 | ‡ | | 11 | 11 | BL-BK | 22 |
| None | 37 | (4)† | 12 | 37 | BK-O | 23 | BK-O |
| None | 12 | (4)† | | 12 | 12 | O-BK | 24 |
| M2 | 38 | 2 | 13 | 38 | BK-G | 25 | BK-G |
| M1 | 13 | 1 | | 13 | 13 | G-BK | 26 |
| SW | 39 | 5H | 14 | 39 | BK-BR | 27 | BK-BR |
| DC | 14 | DC2 | | 14 | 14 | BR-BK | 28 |
| None | 40 | (5)† | 15 | 40 | BK-S | 29 | BK-S |
| None | 15 | (5)† | | 15 | 15 | S-BK | 30 |
| S | 41 | S | 16 | 41 | Y-BL | 31 | Y-BL |
| F1 | 16 | F1 | | 16 | 16 | BL-Y | 32 |
| M1 | 42 | M1 | 17 | 42 | Y-O | 33 | Y-O |
| P1 | 17 | P1 | | 17 | 17 | O-Y | 34 |
| SP2 | 43 | S2 | 18 | 43 | Y-G | 35 | Y-G |
| SP1 | 18 | S1 | | 18 | 18 | G-Y | 36 |
| BL | 44 | BL | 19 | 44 | Y-BR | 37 | Y-BR |
| G or SG | 19 | SG | | 19 | 19 | BR-Y | 38 |
| B or B1 | 45 | RT | 20 | 45 | Y-S | 39 | Y-S |
| R or R1 | 20 | RR | | 20 | 20 | S-Y | 40 |
| T | 46 | ET | 21 | 46 | V-BL | 41 | V-BL |
| R | 21 | ER | | 21 | 21 | BL-V | 42 |
| A or H | 47 | EH | 22 | 47 | V-O | 43 | V-O |
| B | 22 | EB | | 22 | 22 | O-V | 44 |
| T1 | 48 | RR§ | 23 | 48 | V-G | 45 | V-G |
| R1 | 23 | R1 | | 23 | 23 | G-V | 46 |
| P3 | 49 | 8 | 24 | 49 | V-BR | 47 | V-BR |
| P4 | 24 | 7 | | 24 | 24 | BR-V | 48 |
| AG | 50 | AG | 25 | 50 | V-S | 49 | V-S |
| M2 | 25 | M2 | | 25 | 25 | S-V | 50 |

* Terminate spade tipped conductors of D50AA-3 mounting cord on the 75A connecting block as indicated.

† Numbers in parentheses denote connections to LG and L terminals of key plugs as follows:

(1) — Blue, (2) — Orange, (3) — Green, (4) — Brown, (5) — Slate.

‡ Insulated and stored.

§ RR terminal on network.

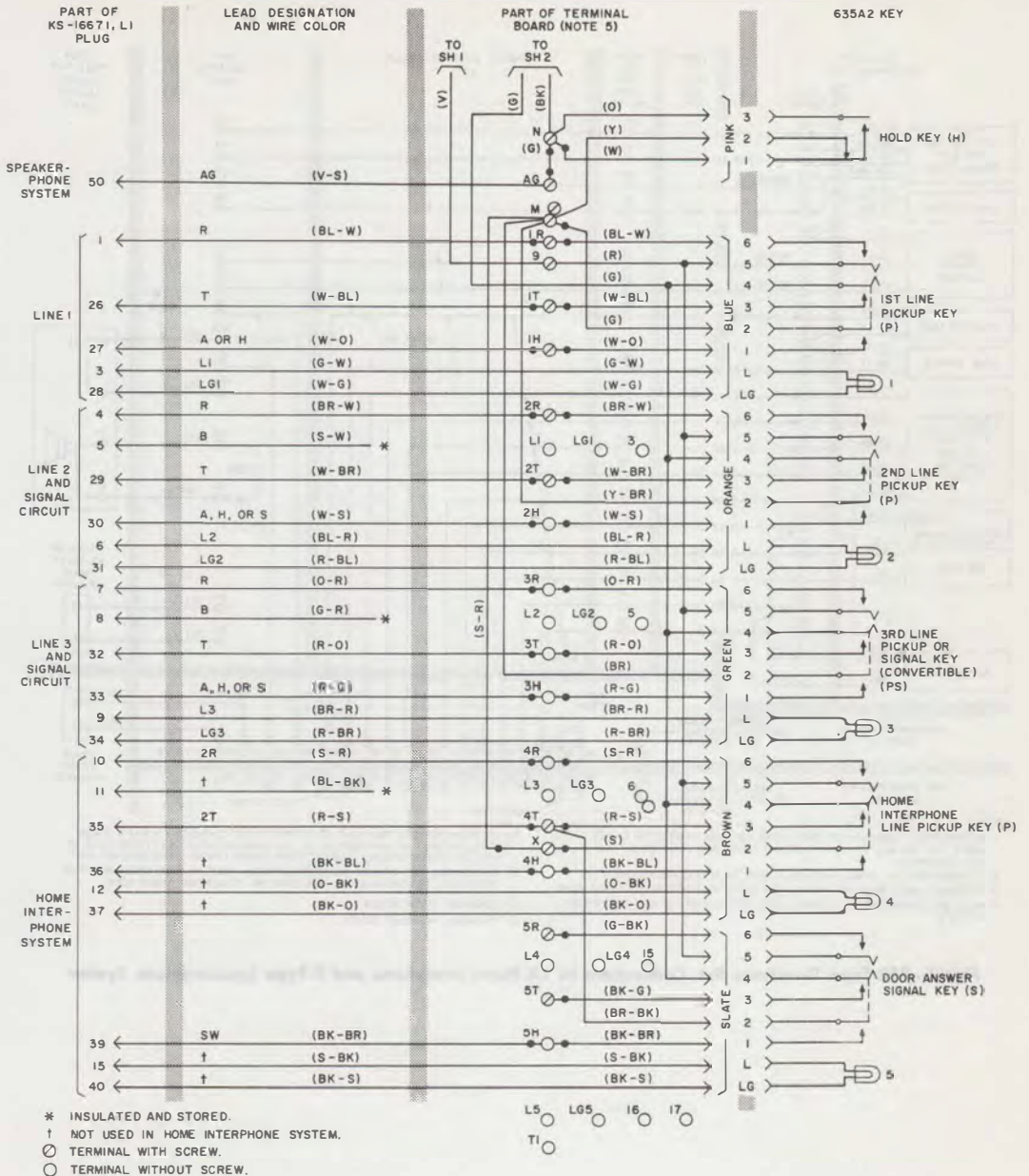


Fig. 2—752-Type Telephone Set Connections, Wired for 1A Home Interphone (Sheet 3 of 3)

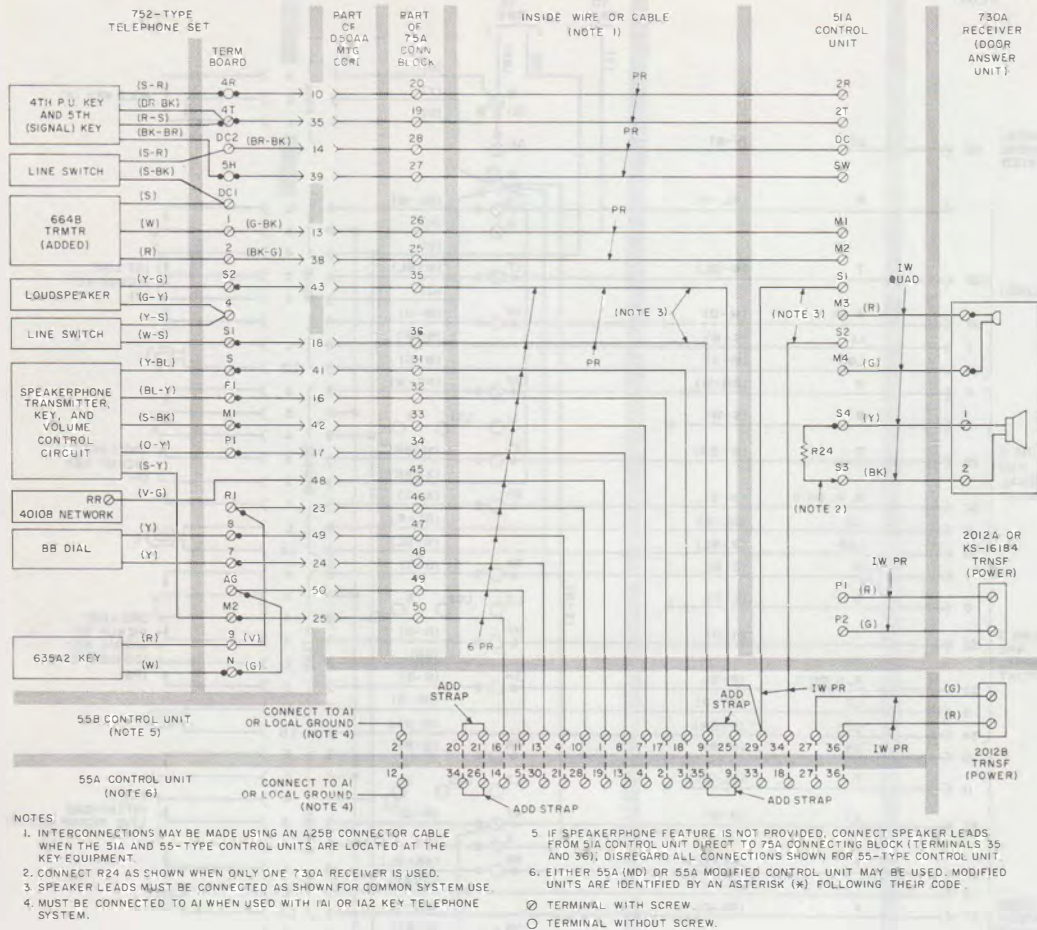


Fig. 3—752-Type Telephone Set, Connections to 1A Home Interphone and 3-Type Speakerphone System