

## INTERPHONE SYSTEM—1A HOME

### 2754-TYPE TELEPHONE SETS

### CONNECTIONS AND MAINTENANCE

#### 1. GENERAL

1.01 This section contains conversion and connection information for the 2754-type telephone set for use with 1A home interphone system.

1.02 This section is reissued to change section reference in 3.01.



*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. CONNECTIONS

2.01 Operation with the 1A home interphone system requires installation of a 762A loudspeaker and 664B transmitter (ordered separately, Fig. 1 and 2).

**Note:** The loudspeaker and interphone transmitter are disconnected from the interphone system when the handset is in the off-hook position.

#### 2.02 Connection Index

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

Table B—Pickup-Signal Key Conversion

Table C—Ringer or Buzzer Connections

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

Fig. 3—2754-Type Telephone Set—Wired For 1A Home Interphone

Fig. 4—2754-Type Telephone Set Connections To 1A Home Interphone System

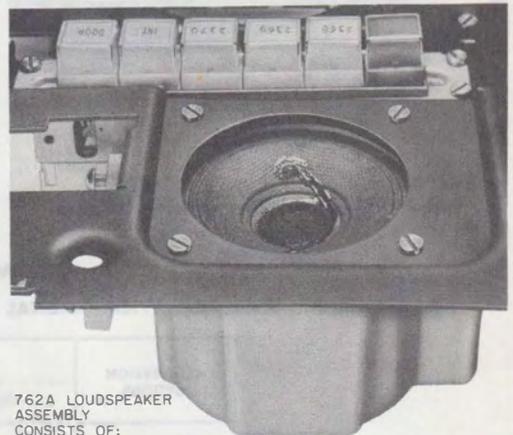
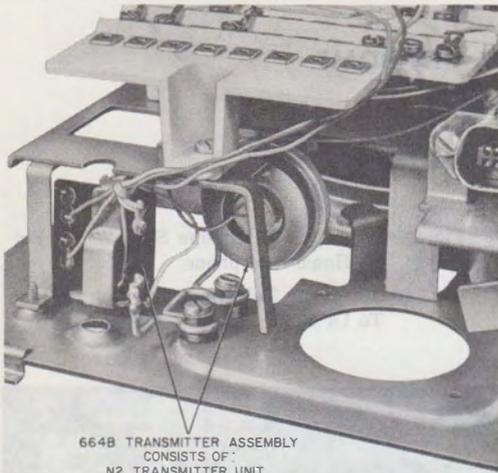


Fig. 1—762A Loudspeaker Assembly Installed

#### 3. MAINTENANCE

3.01 Refer to Division 502 for maintenance information for the 2754-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 and 2) is limited to replacement of defective units.



664B TRANSMITTER ASSEMBLY  
CONSISTS OF:  
N2 TRANSMITTER UNIT  
P-24E420 COMPONENT BOARD ASSEMBLY  
P-24E281 SCREW (2)  
P-24E282 GROMMET (2)

Fig. 2—664B Transmitter Assembly Installed

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

TEL SET LEADS		REMOVE FROM	CONNECT TO
Tel Set Plug	(G-BK)	5R	1
	(BK-G)	5T	2
	(BR-BK)	†	DC2
Key	(BR-BK)	X	4T
664B TRMTR (Added)	(W)	—	1
	(R)	—	2
	(S)	—	DC1
762A Loudspeaker (Added)	(G-Y)		4
	(Y-G)		S2

\* Convert 5th pickup key to signal (for door answering)  
† Insulated and stored.

TABLE B  
PICKUP-SIGNAL KEY CONVERSION

CONVERSION OPTIONS	635A2 KEY LEADS		
	(Y-BR)	(BR)	(BR-BK)
HPPPP <sub>1</sub> S <sub>A</sub>	M	M	4T
HPPSP <sub>1</sub> S <sub>A</sub>	M	SG	4T
HPSSP <sub>1</sub> S <sub>A</sub>	SG	SG	4T
HPP*S*P <sub>1</sub> S <sub>A</sub>	3H	SG	4T

P<sub>1</sub> — Home interphone pickup key

S<sub>A</sub> — Door answering signal key

\* See Note 2

Notes:

1. Convert 5th pickup key to signal (nonlocking) 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**  
**RINGER OR BUZZER CONNECTIONS**

OPTION		LEADS							
		RINGER					STRAP	BUZZER§	
		(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.

† Insulated and stored.

‡ RR terminal on terminal board.

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



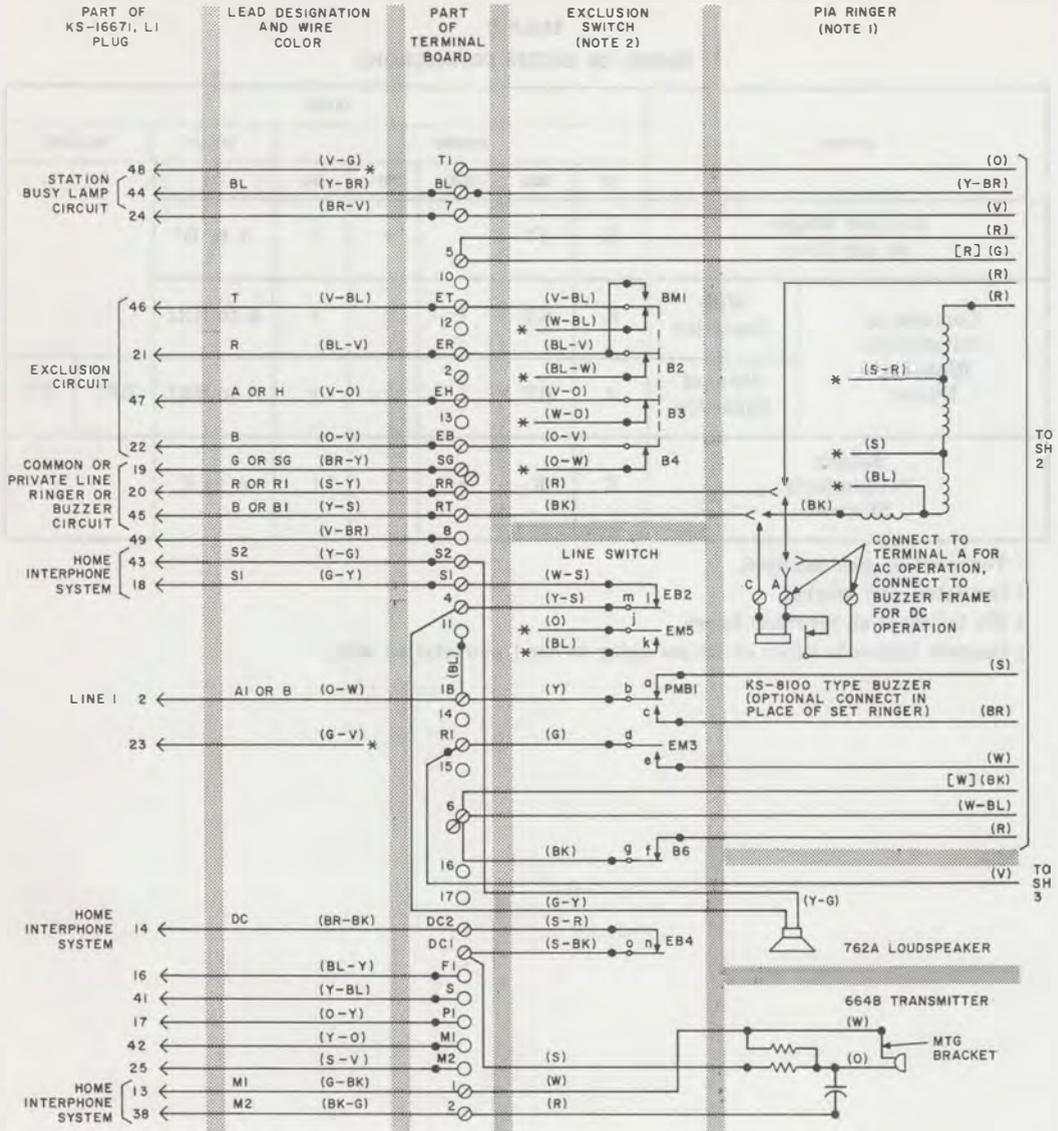
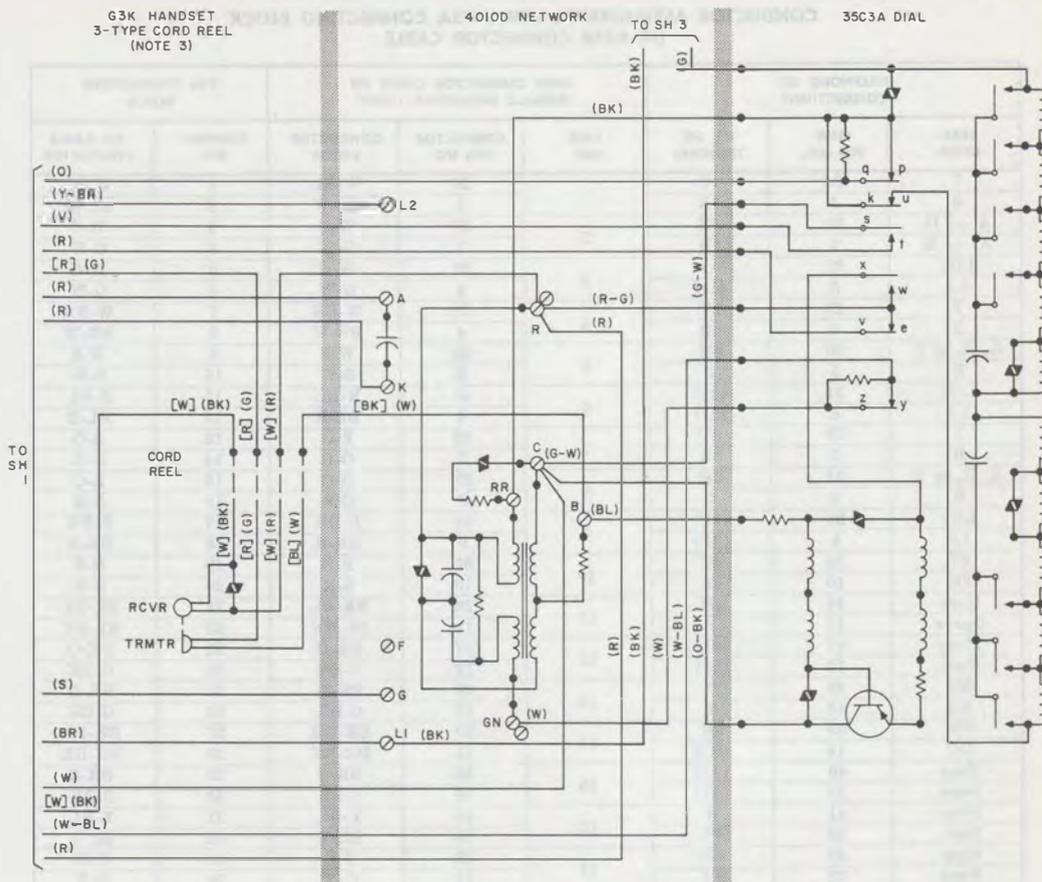


Fig. 3—2754-Type Telephone Set—Wired For 1A Home Interphone (Sheet 1 or 3)



## NOTES:

- REFER TO TABLE C 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.
- REFER TO APPROPRIATE SECTION IN DIVISION 502 FOR EXCLUSION SWITCH CONNECTIONS IF REQUIRED.
- [ ] DENOTES 3A CORD REEL LEAD COLORS.  
( ) DENOTES 3B CORD REEL LEAD COLORS.

- \* INSULATED AND STORED  
† NOT USED HOME INTERPHONE SYSTEM  
⊙ TERMINAL WITH SCREW  
○ TERMINAL WITHOUT SCREW

**Fig. 3—2754-Type Telephone Set—Wired For 1A Home Interphone (Sheet 2 of 3)**

**TABLE D**  
**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	2d	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	23	(1)†	3	23	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
None	41	S	16	41	Y-BL	31	Y-BL
None	16	F1		16	16	BL-Y	32
None	42	M1	17	42	Y-O	33	Y-O
None	17	P1		17	17	O-Y	34
S2	43	S2	18	43	Y-G	35	Y-G
S1	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	EB	22	47	V-O	43	V-O
B	22	EH		22	22	O-V	44
Spare	48	‡	23	48	V-G	45	V-G
Spare	23	‡		23	23	G-V	46
None	49	‡	24	49	V-BR	47	V-BR
None	24	7		24	24	BR-V	48
Spare	50	‡	25	50	V-S	49	V-S
None	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.

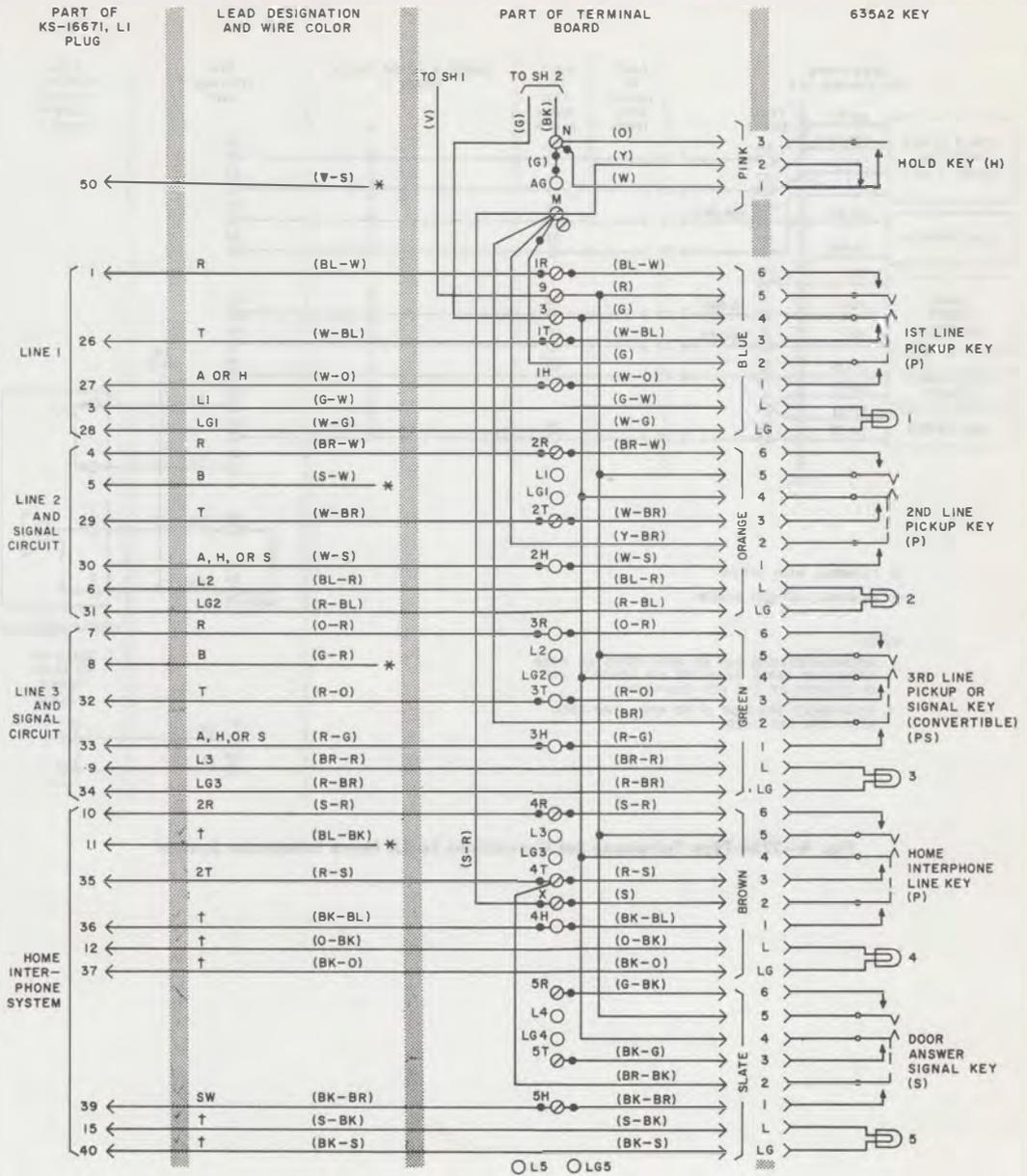


Fig. 3—2754-Type Telephone Set—Wired For 1A Home Interphone (Sheet 3 of 3)

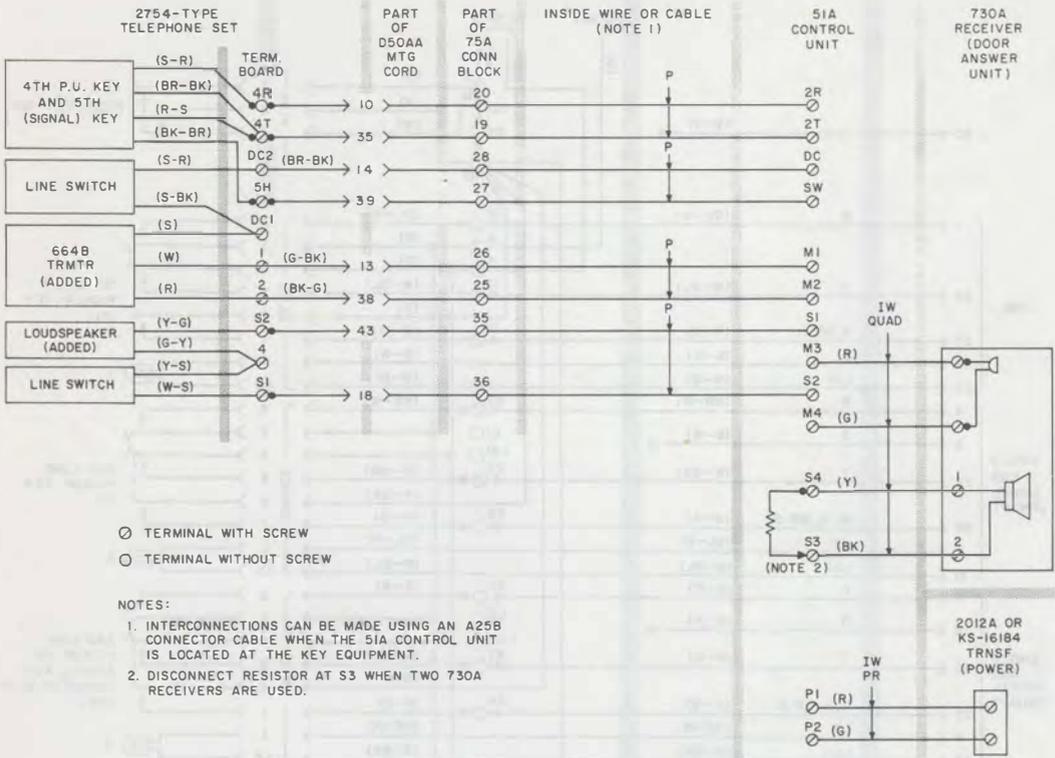


Fig. 4—2754-Type Telephone Set Connections To 1A Home Interphone System