

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

1. GENERAL

1.01 A 762A loudspeaker (Fig. 1) and 664B transmitter (Fig. 2) must be ordered and installed separately for operation with the 1A home interphone system. The loudspeaker and interphone transmitter are disconnected from the interphone system when the handset is in the off-hook position.

1.02 This section is reissued to:

- Change section reference in 3.01
- Change dial pulse lead color, Fig. 3

2. CONNECTION INDEX

Fig. A—Conversion of Telephone Set for 1A Home Interphone

Table B—Pickup-Signal Key Conversion

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

Table D—Ringer or Buzzer Connections

Table E—Ringer or Buzzer Cutoff by Exclusion Key

Fig. 3—754-Type Telephone Set, Wired for 1A Home Interphone

Fig. 4—754-Type Telephone Set, Connections to 1A Home Interphone System

3. MAINTENANCE

3.01 Refer to Division 502 for maintenance information for the 754-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.

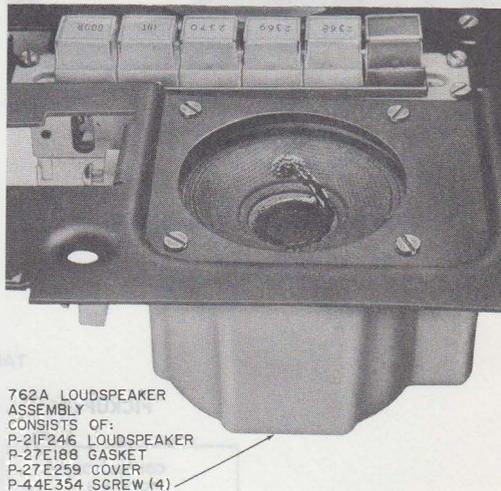
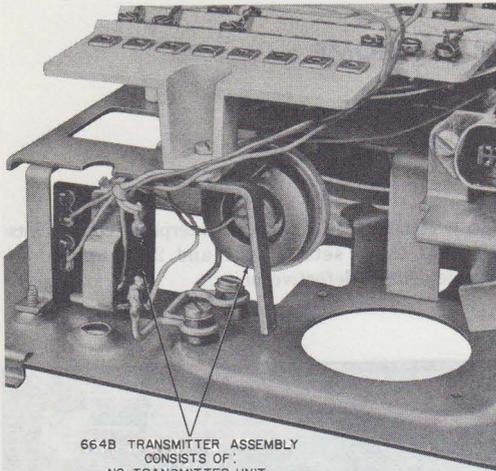


Fig. 1—762A Loudspeaker Assembly Installed



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\*

LEAD OR CONDUCTOR		REMOVE FROM	CONNECT TO
Telephone Set Plug	(G-BK)	5R	1
	(BK-G)	5T	2
	(BR-BK)	†	DC2
664B Transmitter (added)	(W)		1
	(R)		2
	(S)		DC1
762A Loudspeaker (added)	(G-Y)		4
	(Y-G)		S2
Key	(BR-BK)	X	4T

\* 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>(I)</sub> S <sub>(A)</sub>	M	M	4T
HPPSP <sub>(I)</sub> S <sub>(A)</sub>	M	SG	4T
HPSSP <sub>(I)</sub> S <sub>(A)</sub>	SG	SG	4T
HPP*S*P <sub>(I)</sub> S <sub>(A)</sub>	3H	SG	4T

P(I) — Home interphone line key.

S(A) — Door answering signal key.

\* See Notes 2 and 3, Fig. 3.

TABLE C

**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	2	1B		2	2	O-W	4
LG1	28	LG1	3	28	W-G	5	W-G
L1	3	L1		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	LG2	6	31	R-BL	11	R-BL
L2	6	L2		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	LG3	9	34	R-BR	17	R-BR
L3	9	L3		9	9	BR-R	18
2T	35	4T	10	35	R-S	19	R-S
2R	10	4R		10	10	S-R	20
	36	4H	11	36	BK-BL	21	BK-BL
	11	†		11	11	BL-BK	22
	37	LG4	12	37	BK-O	23	BK-O
	12	L4		12	12	O-BK	24
M2	38	5T	13	38	BK-G	25	BK-G
M1	13	5R		13	13	G-BK	26
SW	39	5H	14	39	BK-BR	27	BK-BR
DC	14	†		14	14	BR-BK	28
LG5	40	LG5	15	40	BK-S	29	BK-S
L5	15	L5		15	15	S-BK	30
	41	S	16	41	Y-BL	31	Y-BL
	16	F1		16	16	BL-Y	32
	42	M1	17	42	Y-O	33	Y-O
	17	P1		17	17	O-Y	34
	43	S2	18	43	Y-G	35	Y-G
	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
B1	45	RT	20	45	Y-S	39	Y-S
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
	48	†	23	48	V-G	45	V-G
	23	†		23	23	G-V	46
	49	†	24	49	V-BR	47	V-BR
	24	†		24	24	BR-V	48
	50	†	25	50	V-S	49	V-S
	25	M2		25	25	S-V	50

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

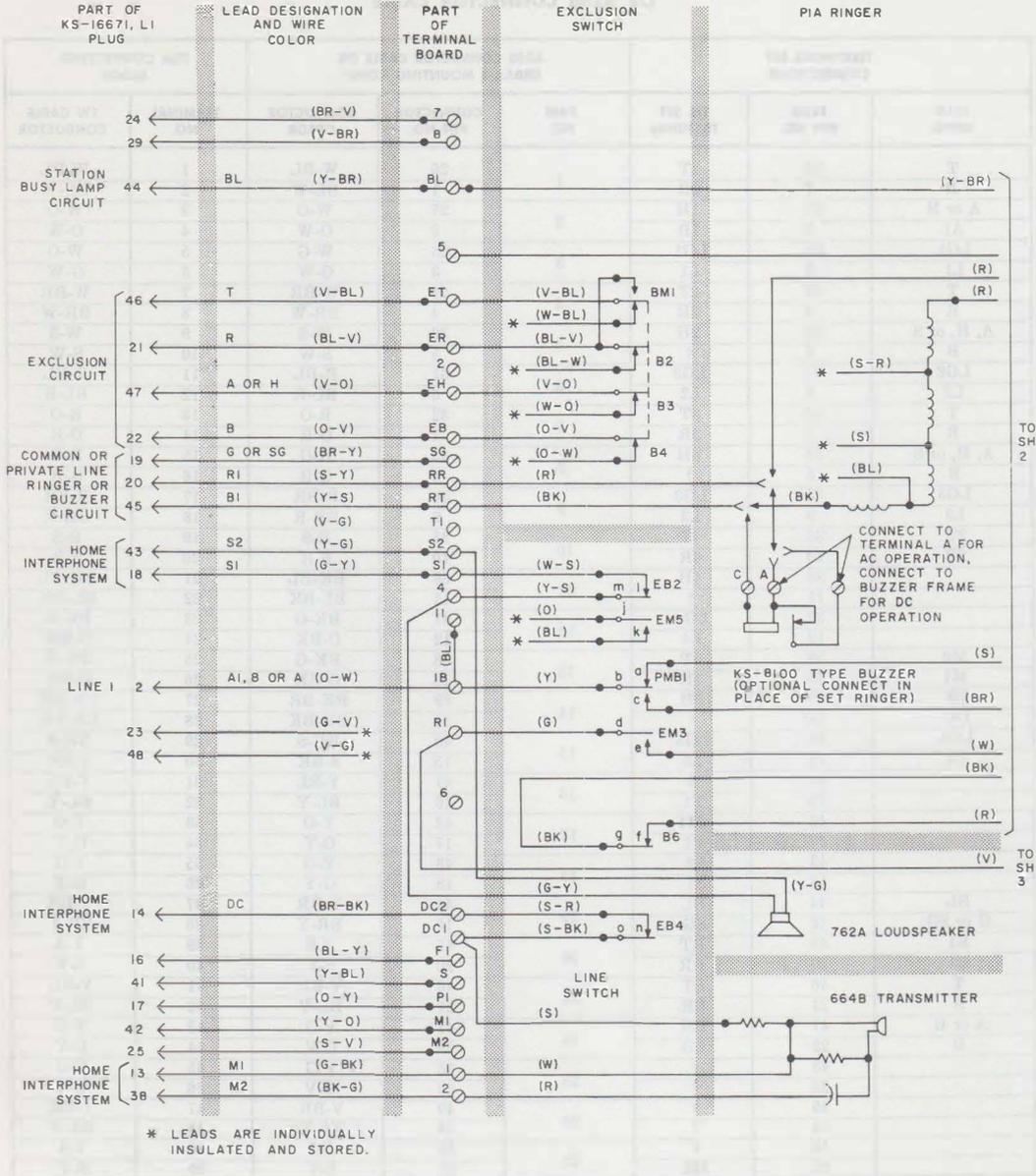
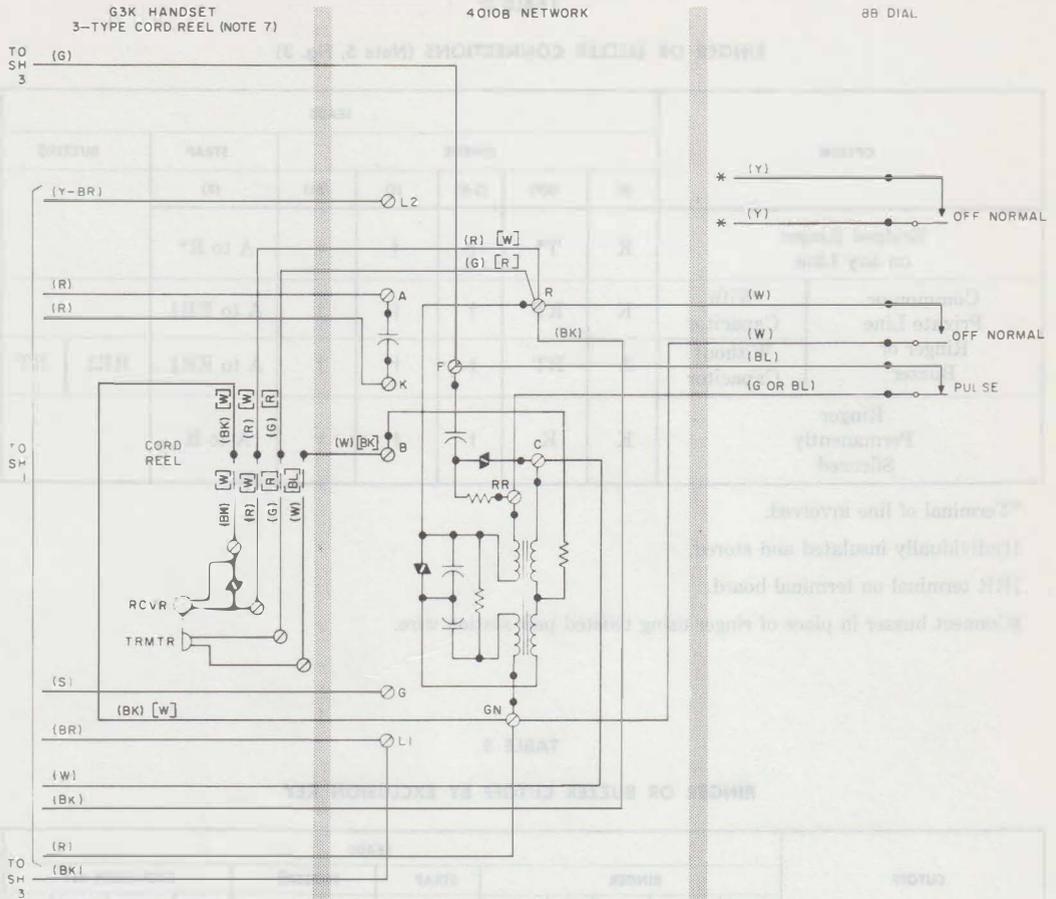


Fig. 3—754-Type Telephone Set Wired for 1A Home Interphone (Sheet 1 of 3)



## NOTES:

1. WITH IA KEY TELEPHONE SYSTEM WHEN OTHER THAN LINE 1 IS EXCLUDED, REMOVE O-W CORD CONDUCTOR FROM TERMINAL IB; INSULATE AND STORE. CONNECT BALANCE LEAD CORD CONDUCTOR OF LINE INVOLVED TO TERMINAL IB.
2. THESE PICKUP KEY OPTIONS ARE USED ON PRIVATE OR INTERCOMMUNICATING LINES WITH THE SIGNAL KEY COMMON. THE SIGNAL KEY WILL OPERATE THE SIGNAL CIRCUIT OF EACH LINE WHEN THE ASSOCIATED PICKUP KEY IS DEPRESSED. USE S LEAD ON 2ND, 3RD, OR 4TH PICKUP KEY AS REQUIRED, AND G LEAD FOR COMMON SIGNAL GROUND.
3. ALL CONVERTIBLE KEY POSITIONS ARE ARRANGED IN THE FACTORY AS PICKUP POSITIONS TO CONVERT A KEY POSITION FROM PICKUP (LOCKING) TO SIGNAL (NONLOCKING), REMOVE THE P2BE773 LOCKING PIN FROM PLUNGER AT THE KEY POSITION TO BE CONVERTED. MAKE NECESSARY CONNECTION CHANGES AS SHOWN IN TABLE B. TO CONVERT A KEY POSITION FROM NONLOCKING TO LOCKING, INSERT P2BE773 LOCKING PIN.
4. WHEN KEYS ARE CONVERTED FOR SIGNALING, THE S LEAD OF KEY INVOLVED PROVIDES THE SIGNAL CIRCUIT AND THE G LEAD PROVIDES THE COMMON SIGNAL GROUND.
5. RINGER IS FACTORY WIRED WITH CAPACITOR IN SERIES; RED LEAD TO RR TERMINAL, BLACK LEAD TO RT TERMINAL. RINGERS 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.
6. DO NOT PULL INSULATORS OFF WITH LONG-NOSE PLIERS. CUT INSULATORS OFF WITH ELECTRICIAN SCISSORS OR DIAGONAL PLIERS TO PREVENT BREAKING CONDUCTORS OR STRIPPING OFF CORD TIPS.
7. [ ] DENOTES 3A CORD REEL COLORS; ( ) DENOTES 3B CORD REEL LEAD COLORS.

Fig. 3—754-Type Telephone Set Wired for 1A Home Interphone (Sheet 2 of 3)

TABLE D

RINGER OR BUZZER CONNECTIONS (Note 5, Fig. 3)

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.

†Individually insulated and stored.

‡RR terminal on terminal board.

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

TABLE E

RINGER OR BUZZER CUTOFF BY EXCLUSION KEY

CUTOFF		LEADS											
		RINGER					STRAP	BUZZER§		EXCLUSION KEY			
		(R)	(BK)	(S-R)	(S)	(BL)	(R)			(BL-W)	(W-BL)	(O-W)	(W-O)
Bridged Ringer on any Line		K	ET	†	†	†	A to ER			R*	T*	†	†
Common or Private Line Ringer or Buzzer (Note 5, Fig. 3)	With Capacitor	K	ET	†	†	†	A to ER			RR†	RT	†	†
	Without Capacitor	ER	ET	†	†	†	A to K	ER	ET	RR†	RT	†	†

\*Terminal of line involved.

†Individually insulated and stored.

‡RR terminal on terminal board.

§Connect buzzer using twisted pair station wire.

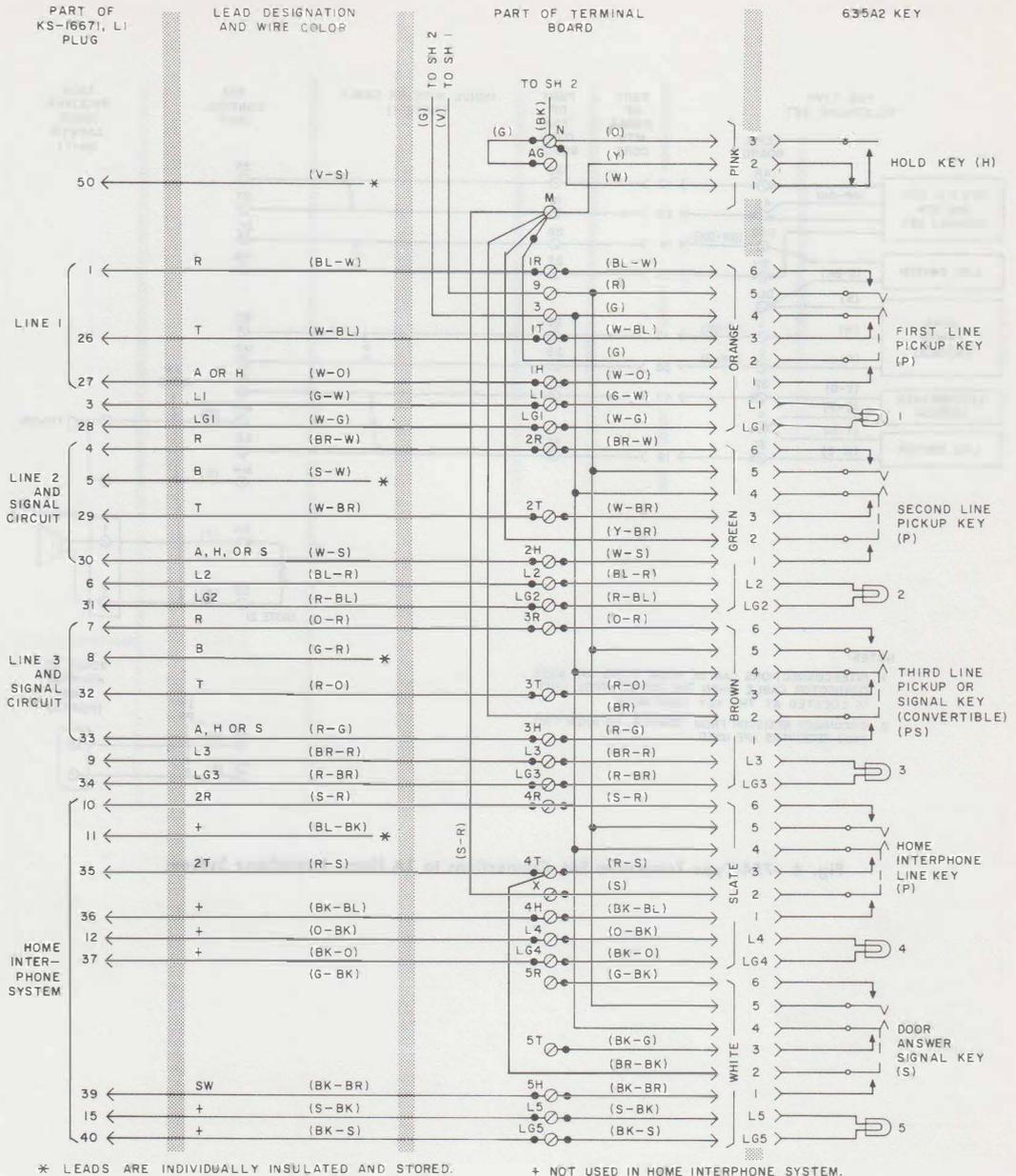


Fig. 3—754-Type Telephone Set Wired for 1A Home Interphone (Sheet 3 of 3)

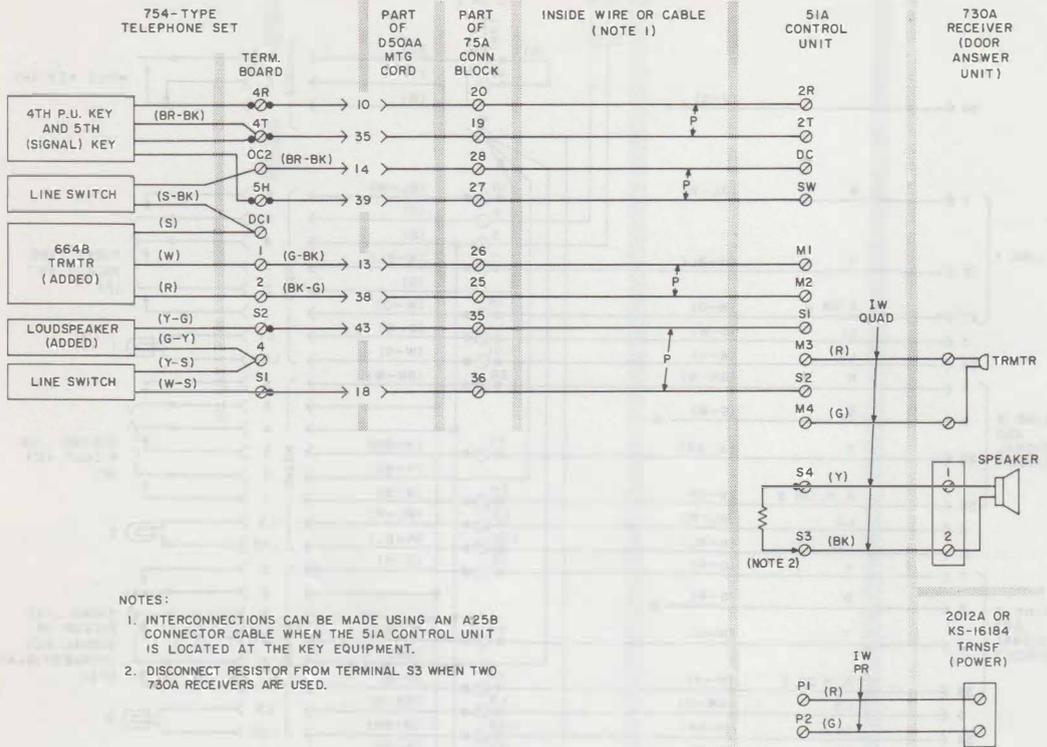


Fig. 4—754-Type Telephone Set, Connections to 1A Home Interphone System