TELEPHONE SET — 3568HH/HT

CONNECTIONS

1. GENERAL

1.01 The 3568-type telephone set is a desk type 6-button key telephone set arranged for 2- and 4-wire service and is initially intended for use in the Automatic Voice Network (AUTOVON).

1.02 A 16-button TOUCH-TONE dial (66-type) is used, providing usual station-to-station dialing plus six special service signaling buttons.

1.03 The 6-button key (635A2 type) provides a hold and five line pickups with the pickups convertible for signaling (see Table A). The pickup keys are illuminated and serve as station busy, held line, and/or incoming call indicators. The hold button is also arranged for illumination. The key is arranged to permit the interchangeability of any line plug with any pickup position.

1.04 The 3568-type telephone set contains a printed circuit assembly which consists of the MA4 relay, a 460A bridge rectifier diode, and a 425D diode. The MA4 relay provides facilities for switching from 2- to 4-wire service. The 460A diode provides polarity guard for TOUCH-TONE dial and the 425D diode is used for surge protection.

1.05 Provisions for connecting speakerphone circuit are provided (see Table B).

1.06 Table C shows ringer and buzzer connections. The KS-8109, List 2 buzzer, ordered separately, shall be mounted in the set space provided so that the frame is insulated from the base of the set.

1.07 The 3568HH telephone set is equipped with a 66A4B dial. The dial is equipped with a pair of lamps which provide dial illumination. Dial connections are made by 13 spade-tipped leads.

1.08 The 3568HT telephone set is equipped with a 66A3A dial which is not illuminated. Dial connections are made by 11 spade-tipped leads.

TABLE A

PICKUP-SIGNALING KEY CONVERSION*
(CONNECTIONS TO TB1)

NO. OF PICKUP KEYS	NO. OF KEYS CONV FROM PICKUP	NO. OF PRIV AND INTERCOM LINES WITH COMMON SYSTEMS	KEY POSITION AND LEAD					
			B (O-W)	C (S-W)	D (G-R)	E (BL-BK)	F (BR-BK)	F (BR-W)
5	—	—	10	10	10	10	10	9
4	1	—	10	10	10	10	21	9
3	2	—	10	10	10	21	21	9
2	3	—	10	10	21	21	21	9
4	1	2	10	10	14	14	14	15
4	1	3	10	14	14	14	14	15

* All convertible key positions are arranged in the shop as pickup positions. To convert a key position from pickup (locking) to signal (nonlocking), remove the screw pin in the plunger. Store screw pins in telephone set by taping to base. Make connection changes. To convert from signaling to pickup, reverse procedures.

© American Telephone and Telegraph Company, 1965
Printed in U.S.A.

TABLE B

CONNECTIONS FOR SPEAKERPHONE CIRCUIT

WIRE OR LEAD	LEAD DESIG	CONNECT TO	
		TB1	NETWORK
(G-V)	R1	18	
(V-G)	T1		G
(BR-V)	IR	19	
(V-S)	AG	15	
(S-V)	LK		L1
(V-O)*	P3	16	
(O-V)*	P4	17	

* These leads are connected only when used on external rotary dial.

TABLE C

RINGER AND BUZZER CONNECTIONS

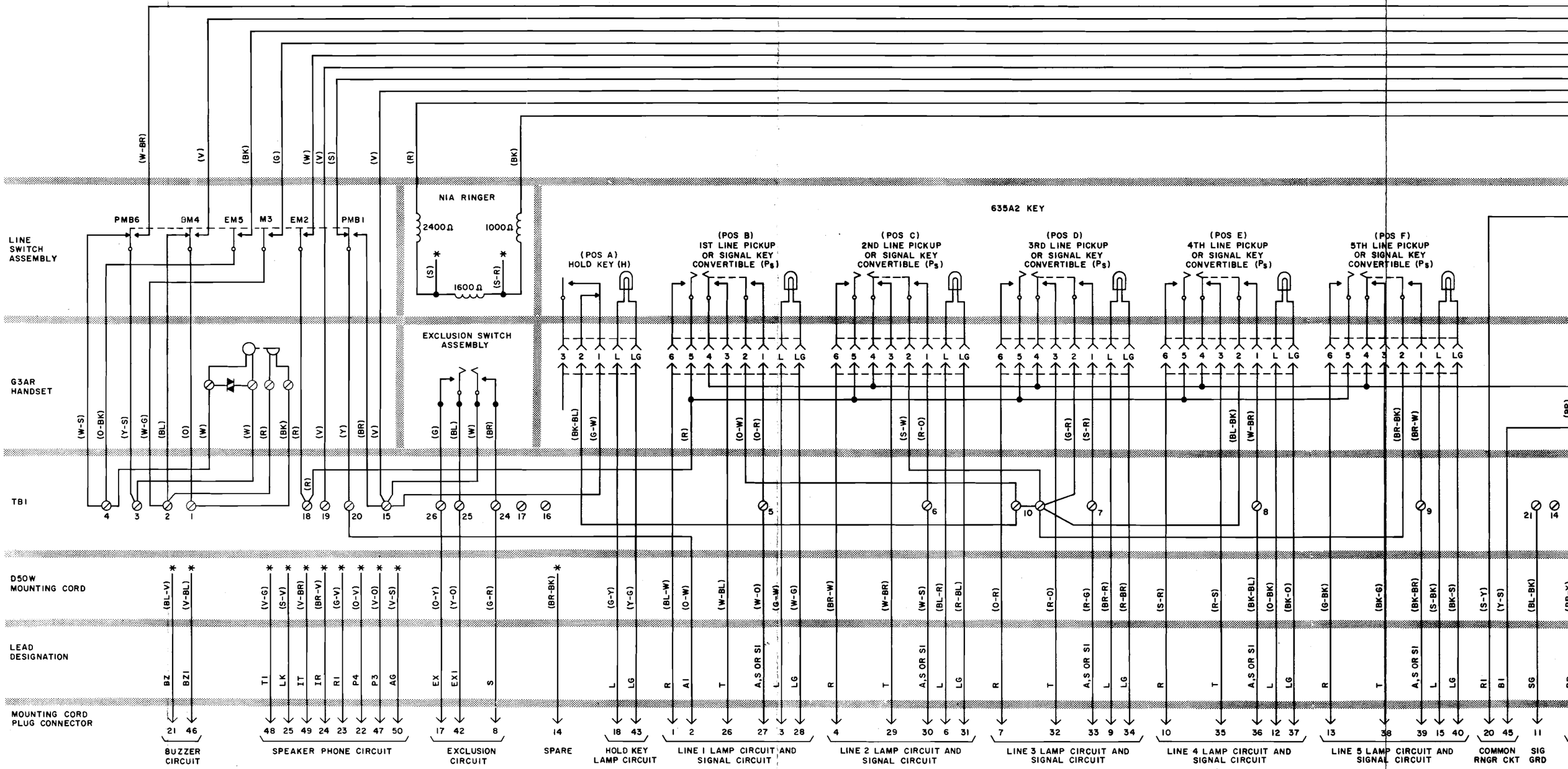
RINGER OPTION		WIRE OR LEAD		CONNECT TO	
				NETWORK	TB2
When used as bridged ringer on any one line (Note 1)		Ringer	(R)	K	
			(BK)		6
		D50W cord	(S-Y)	A	
			(Y-S)		6
When used as Private line, Common Signal, or other use (Note 2)	With Capacitor	Ringer	(R)	K	
			(BK)		6
		D50W cord	(S-Y)	A	
			(Y-S)		
	Without Capacitor	Ringer	(R)	A	6
			(BK)		
		D50W cord	(S-Y)	A	
			(Y-S)		6
Set ringer not used (Note 3)		Ringer	(R)	K	
			(BK)		6
		D50W cord	(S-Y)	A	
			(Y-S)		6
KS-8109, L2 buzzer option (Note 4)	AC operation	D50W cord	(BL-V)	Term. A of buzzer	
			(V-BL)	Term. C of buzzer	
	DC operation		(BL-V)	Buzzer frame	
			(V-BL)	Term. C of buzzer	

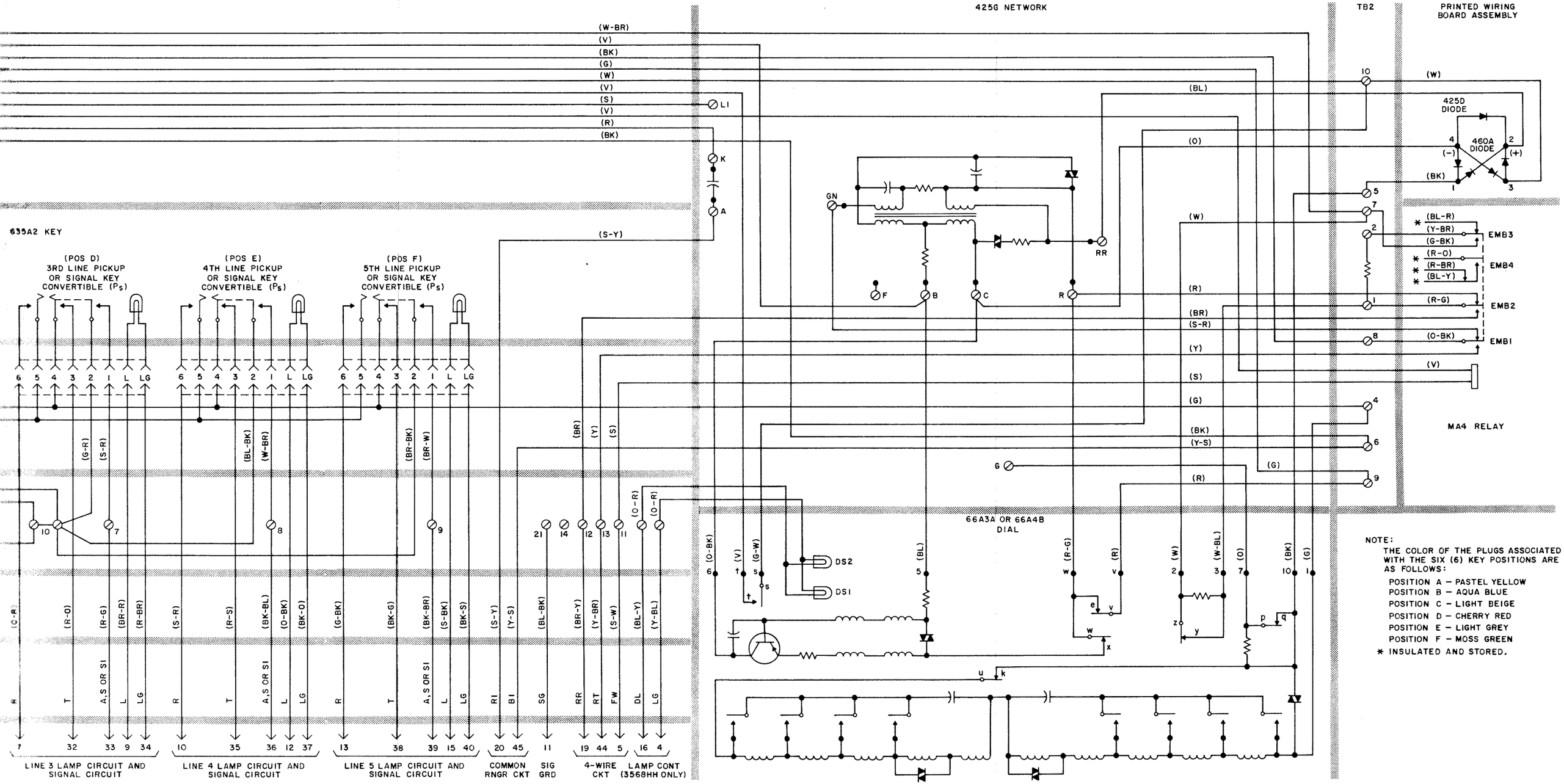
Note 1: Connect cable pair associated with R or R1 (S-Y) and B or B1 (Y-S) to the desired 2-wire line.

Note 2: The ringer may be connected with or without capacitor for private line, common, or intercom line signals as desired. When power failure feature is provided, a capacitor is required.

Note 3: Do not terminate associated cable pair at distribution terminal if set ringer is not used.

Note 4: Buzzer leads BZ (BL-V) and BZ1 (V-BL) may be connected to the R, R1, or BZ and B, B1, or BZ1 terminals, respectively, at the distribution terminal to provide the required type of buzzer operation.


LINE SWITCH ASSEMBLY
PMB6
BM4
EM5
M3
EM2
PMB1
NIA RINGER
2400Ω
1000Ω
1600Ω
(S)
(S-R)
EXCLUSION SWITCH ASSEMBLY
635A2 KEY
(POS A) HOLD KEY (H)
(POS B) 1ST LINE PICKUP OR SIGNAL KEY CONVERTIBLE (Ps)
(POS C) 2ND LINE PICKUP OR SIGNAL KEY CONVERTIBLE (Ps)
(POS D) 3RD LINE PICKUP OR SIGNAL KEY CONVERTIBLE (Ps)
(POS E) 4TH LINE PICKUP OR SIGNAL KEY CONVERTIBLE (Ps)
(POS F) 5TH LINE PICKUP OR SIGNAL KEY CONVERTIBLE (Ps)
3 2 1 L LG
6 5 4 3 2 1 L LG
G3AR HANDSET
TBI
4 3 2 1 18 19 20 15 26 25 24 17 16 5 6 10 7 8 9 21 14
D50W MOUNTING CORD
LEAD DESIGNATION
MOUNTING CORD PLUG CONNECTOR
21 46
48 25 49 24 23 22 47 50
17 42 8
14
18 43
1 2 26 27 3 28
4 29 30 6 31
7 32 33 9 34
10 35 36 12 37
13 38 39 15 40
20 45
11
BUZZER CIRCUIT
SPEAKER PHONE CIRCUIT
EXCLUSION CIRCUIT
SPARE
HOLD KEY LAMP CIRCUIT
LINE 1 LAMP CIRCUIT AND SIGNAL CIRCUIT
LINE 2 LAMP CIRCUIT AND SIGNAL CIRCUIT
LINE 3 LAMP CIRCUIT AND SIGNAL CIRCUIT
LINE 4 LAMP CIRCUIT AND SIGNAL CIRCUIT
LINE 5 LAMP CIRCUIT AND SIGNAL CIRCUIT
COMMON RNGR CKT
SIG GRD



NOTE:
THE COLOR OF THE PLUGS ASSOCIATED WITH THE SIX (6) KEY POSITIONS ARE AS FOLLOWS:

POSITION A – PASTEL YELLOW
POSITION B – AQUA BLUE
POSITION C – LIGHT BEIGE
POSITION D – CHERRY RED
POSITION E – LIGHT GREY
POSITION F – MOSS GREEN

* INSULATED AND STORED.

Fig. 1 — 3568HH/HT Telephone Set — Connections