TELEPHONE SETS—F-58555

IDENTIFICATION, INSTALLATION, CONNECTIONS, AND MAINTENANCE

1. GENERAL

1.01 The F-58555 telephone set (Fig. 1 and 2) is a desk-type, 6-button key card dialer, providing for automatic, and manual calling.

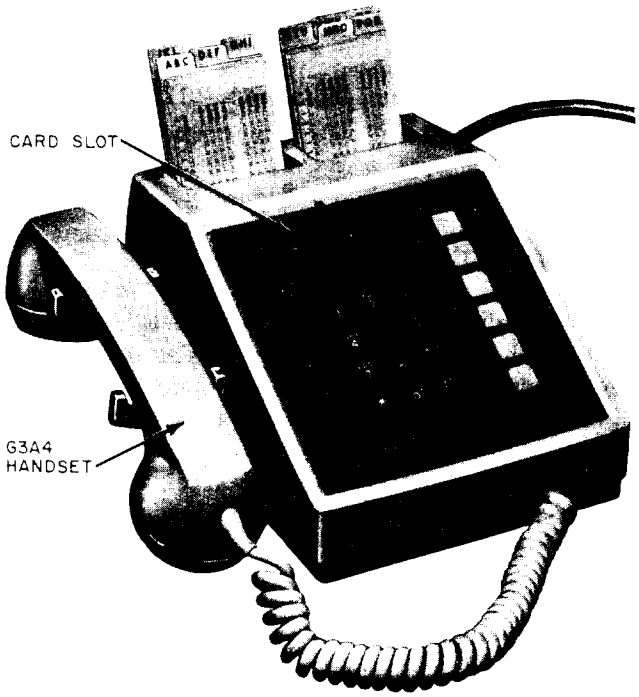


Fig. 1—F-58555 Telephone Set

1.02 It is equipped with a F-58553 dial which contains a manual RC 12-button TOUCH-TONE® dial, polarity guard, and reed switch card reader.

1.03 This set is similar to the 2662A1 telephone set and may be used to fill the demand for a card dialer that will provide extended life in high usage applications.

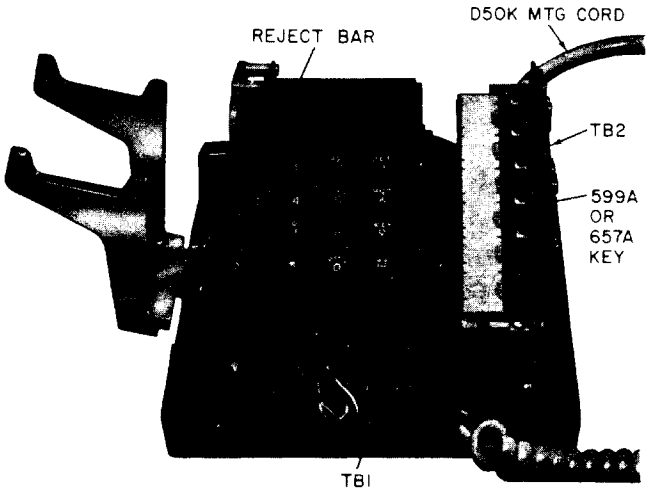


Fig. 2—F-58555 Telephone Set, Interior View

2. IDENTIFICATION

Ordering Guide

2.01 ***Basic Telephone Set:***

Set, Telephone, F-58555-*

2.02 ***Replaceable Common Components:***

- Card, Set, 840360564 (20 cards)
- Cord, Mounting, D50K-*
- Dial, F-58553
- Faceplate (see Table A)
- Key, 599A or 657A
- P-13E363 Card Index Set (9 cards)
- P-24E474 Retainer Card

- ●P-44E129 Designation Strip
- ●P-82B0* Housing Assembly
- ●Ringer, M1A
- ●Set, Hand, G3A4*†

* Add appropriate color suffix, see Table A.

† Same as G3AR handset, 4 indicates length of handset cord.

TABLE A

COLOR ORDERING GUIDE

COLOR	SUFFIX	COORDINATED COLOR	FACEPLATE PIECE PART
Black	-03	Charcoal	840171706
Ivory	-50	Muted Ivory	840171805
Green	-51	Lt Green	840171714
Red	-53	Muted Red	840171691
Yellow	-56	Lt Yellow	840171722
White	-58	Lt Gray	840171730
Rose Pink	-59	Muted Pink	840171748
Lt Beige	-60	Muted Beige	840171755
Lt Gray	-61	Charcoal	840171706
Aqua Blue	-62	Muted Blue	840171763
Turquoise	-64	Muted Turq	840171771

2.03 ***Optional Apparatus or Equipment (ordered separately):***

- ●Buzzer, KS-20419L1

Design Features

2.04 Features of this set are:

- ●Slot for smaller size cards with rectangular holes
- ●Manual 12-button TOUCH-TONE dial
- ●Roller card feelers
- ●Sealed reed contacts
- ●Reject button, releases card without dialing, releases call bar for manual dialing when card is stuck
- ●Polarity guard for end-to-end signaling
- ●Expanded line switch for use with 3-type speakerphone
- ●Key telephone system use 1A, 1A1, or 1A2
- ●AC buzzer (optional)

Application

2.05 This set can be used on CO, PBX line circuits, and 1A, 1A1, or 1A2 key telephone systems.

3. INSTALLATION AND CONNECTIONS

3.01 Install the F-58555 telephone sets in accordance with standard practices for desk-type, 6-button key telephone sets. Refer to appropiate connection figures and tables for connections and wiring options.

3.02 One sheet of perforated blank designation strips (P-44E129) is supplied with each set. Remove faceplate (4.04) and install strip at key location.

Optional Features

3.03 ***Buzzer:*** A KS-20419L1 (10 volt AC only) buzzer (ordered separately) may be used in this set as an auxiliary signal. This is an insulated buzzer and may be mounted in any convenient location with a single screw. Space limitations do not permit use of a KS-8109 type buzzer.

3.04 ***Speakerphone:*** When speakerphone is required, make the necessary lead connections in accordance with Table B. Refer to appropriate connection figure for mounting cord lead connections to 66-type connecting block.

3.05 ***Signaling:*** To convert pickup keys from (locking) to (nonlocking) remove the P-10E837 screw from the key plunger at the key being converted, and refer to Table C for key lead connections.

3.06 ***Station Busy Lamp:*** Connections for this feature are shown in Fig. 6 for 1A KTS and Fig. 7 for 1A1 or 1A2 KTS.

3.07 ***I Hold:*** This feature can be provided for 1A1 and 1A2 KTS only, Fig. 7 provides the necessary connections.

Card Size

3.08 The card slot of the F-58553 dial will accept only the smaller size cards with rectangular holes (2-1/8 by 3-3/8 inch). These cards are slightly smaller in size than the cards used with 2662-type card dialers. Either the punchable card supplied with the set or prepunched cards (KS-20640) furnished by the customer may be used. Cards for this new dialer are not interchangeable with cards used with earlier model card dialers.

Coding Cards

3.09 Code cards as follows:

(1) Write name and telephone number in space provided as shown in Fig. 3 and 4.

(2) Convert exchange letters to numbers. For example: use 2 for A, B, or C; 7 for P, R, or S; etc.

Note: There are two groups of numbers 1 through 0 on the card (Fig. 3), plus 6 special characters, *, #, a, b, c, d. ***DO NOT*** confuse these with exchange letters.

(3) In Fig. 3 the first digit of the telephone number is 5. In row 1, locate digit 5 in the first group of numbers and punch out the perforation with a pencil or ballpoint pen. In the same row, locate digit 5 in the second group of numbers and again punch out the perforation.

(4) Repeat this procedure for each digit in the telephone number. The digit 0 must be punched out in each group of numbers just as any other digit.

(5) It is not necessary to punch a stop following the last telephone number digit, except in certain operations where transmission of a single 697 Hz frequency transmission after the last digit dialed is undesirable.

(6) If a stop is punched after the last telephone number digit, the R bar must be operated to release the card.

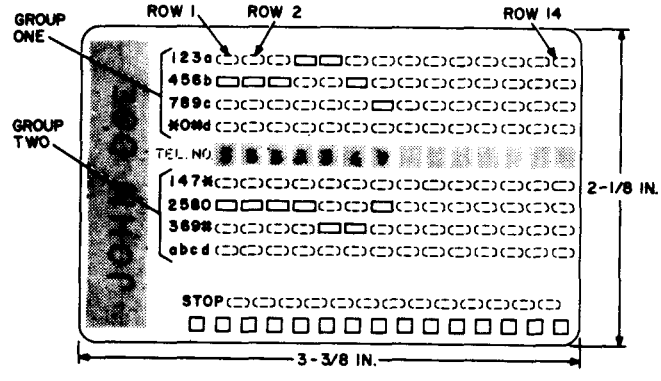


Fig. 3—Dial Card Coded for 7-Digit Telephone Number

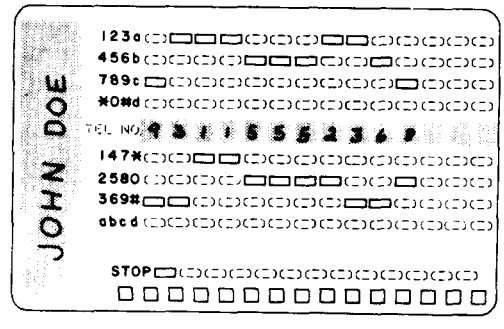


Fig. 4—Dial Card Coded for Access Code (9), Stop, Area Code (311), and 7-Digit Telephone Number

3.10 In certain PBX systems, it may be necessary to dial an access code to obtain central office dial tone. To prepare a card, proceed as follows (Fig. 4):

(1) Punch out the access code in row 1.

(2) If a second dial tone is required, punch out the STOP in the appropriate row. Punching out the first STOP will result in a wait after the first digit.

(3) Beginning in row 2, punch out in the regular manner the directory or area code, if any, and telephone number.

3.11 For DDD calling, punch out the access code, if required, area code, and the complete telephone number.

3.12 Check card before using to be sure it is properly punched for the number desired. There should be two punched holes in each row plus a STOP, if required. Holes should be punched out completely and neatly.

Station Number Card

3.13 To install station number card, remove faceplate (4.04) by releasing latch located above card slot and slide number card behind number card retainer. Replace faceplate.

4. MAINTENANCE

4.01 Refer to appropriate sections for maintenance of components, such as handset, key, ringer, dial, etc.

4.02 Maintenance of this card dialer is limited to the following:

(1) ***Sticking Cards:*** Make visual inspection of dial for loose parts or wires which might interfere with the dial mechanism.

(2) ***Foreign Material:*** Check for material such as paper clips, hairpins, etc. lodged in card slot.

(3) ***Faulty Cards:*** Check cards for proper size by comparing with a working card. Replace bent or mutilated cards. Depress R bar to release any stuck cards.

(4) ***Wrong Numbers:*** Verify coding of card. Check at least twice on line with a test code card. Check operation of TOUCH-TONE dial in the normal manner.

4.03 If tests indicate trouble in the F-58553 dial, replace the dial.

Note: Do not make any adjustments on the F-58553 dial in the field.

Faceplate Removal

4.04 To remove faceplate:

(1) Place point of KS-16750 type releaser or equivalent at edge of faceplate catch.

(2) Push catch toward rear of set until releaser enters notched portion of faceplate.

(3) Turn point of releaser under faceplate and raise.

Note: When replacing faceplate, use releaser to hold catch until faceplate is in position.

Housing Removal

4.05 To remove housing:

(1) Loosen four captive screws through access holes in base of set.

(2) Lift housing straight off.

Dial Replacement

4.06 To remove F-58553 dial:

(1) Remove faceplate and housing, 4.04 and 4.05.

(2) Disconnect spade-tipped dial leads from network and terminal board.

(3) Turn set on side, remove dial mounting screws and lift dial away from base.

(4) To replace dial, reverse procedure.

Caution: Handle dial with care so as not to bend or damage reed leads.

(5) Check manual and credit card dial operations.

Ringer Replacement

4.07 To remove M1A ringer:

(1) Remove faceplate and housing, 4.04 and 4.05.

(2) Disconnect ringer leads from terminal board.

(3) Remove dial mounting screws and lay dial aside to gain access to ringer. ***Do not disconnect dial leads.***

(4) Remove screws holding ringer to base and remove ringer.

(5) To replace ringer, reverse procedure used to remove ringer.

TABLE B

SPEAKERPHONE CONNECTIONS

WIRE OR LEAD		REMOVE FROM STORED LOCATION	CONNECT TO
Mtg Cord	T1 V-G	•	TB2-9
	R1 G-V	•	TB2-R
	IR BR-V	•	TB1-4
	AG V-S	•	TB2-A
	LK S-V	•	TB2-LK
Dial	O	•	TB2-T
	V	•	TB2-9

TABLE C

PICKUP-SIGNAL KEY CONVERSION

CONVERSION OPTIONS	599A KEY LEADS					
	(O-W)	(S-W)	(G-R)	(BL-BK)	(BR-BK)	(BR-W)
HPPPPP (Note)	A2	A2	A2	A2	A2	5
HPPPPS	A2	A2	A2	A2	SG	5
HPPPSS	A2	A2	A2	SG	SG	5
HPPSSS	A2	A2	SG	SG	SG	5
HPPPP*S*	A2	A2	A2	S1	A†	S1
HPPP*P*S*	A2	A2	S1	S1	A†	S1
HPP*P*P*S*	A2	S1	S1	S1	A†	S1

* These arrangements use line switch controlled ground for common signal key used with private or intercommunicating lines. Common signal key should be used to operate a signal relay.

† For 1A KTS connect (BR-BK) key lead to BL terminal.

Note: To convert from pickup (locking) to signal (nonlocking) remove the P-10E837 screw from the plunger at the key position being converted.

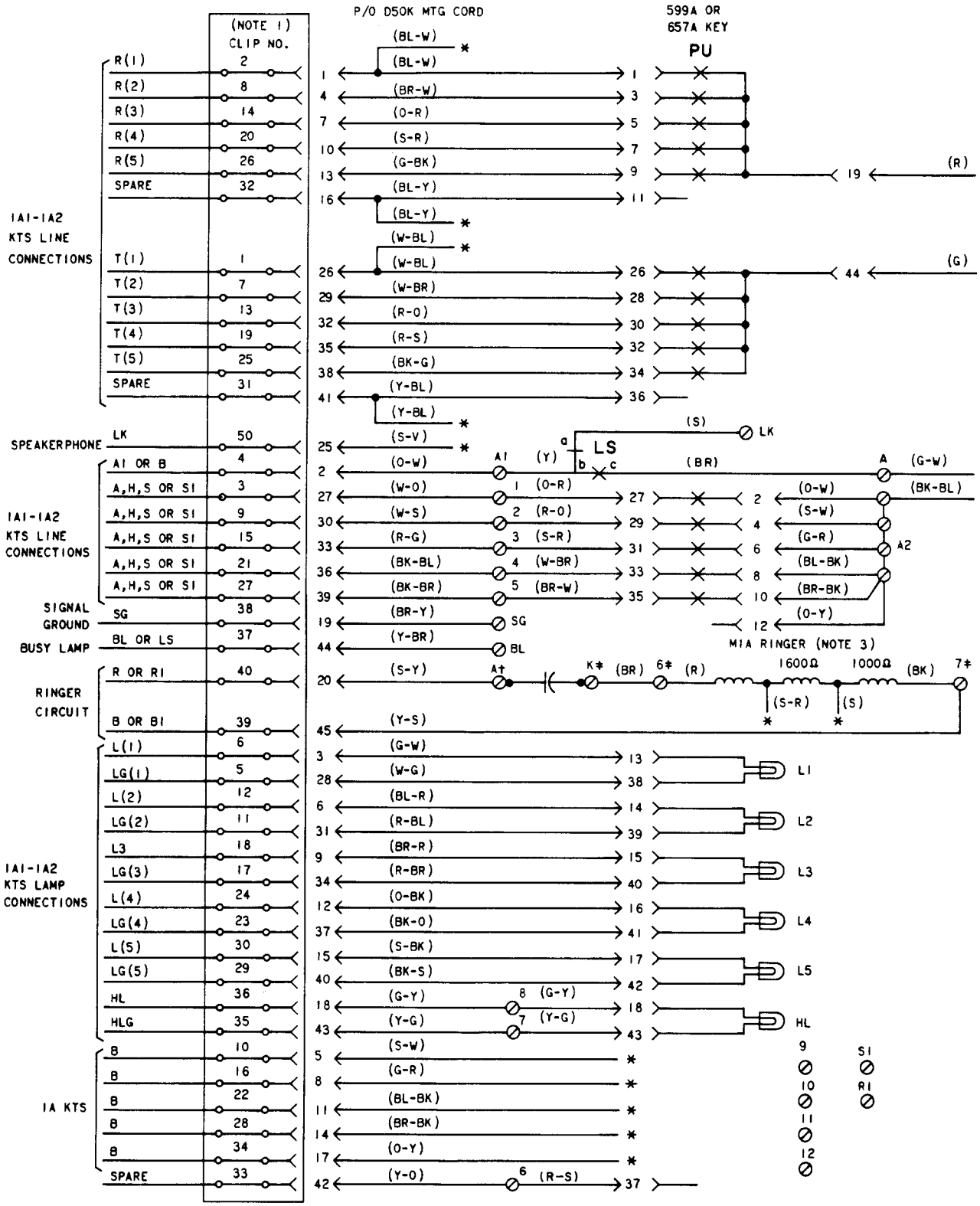
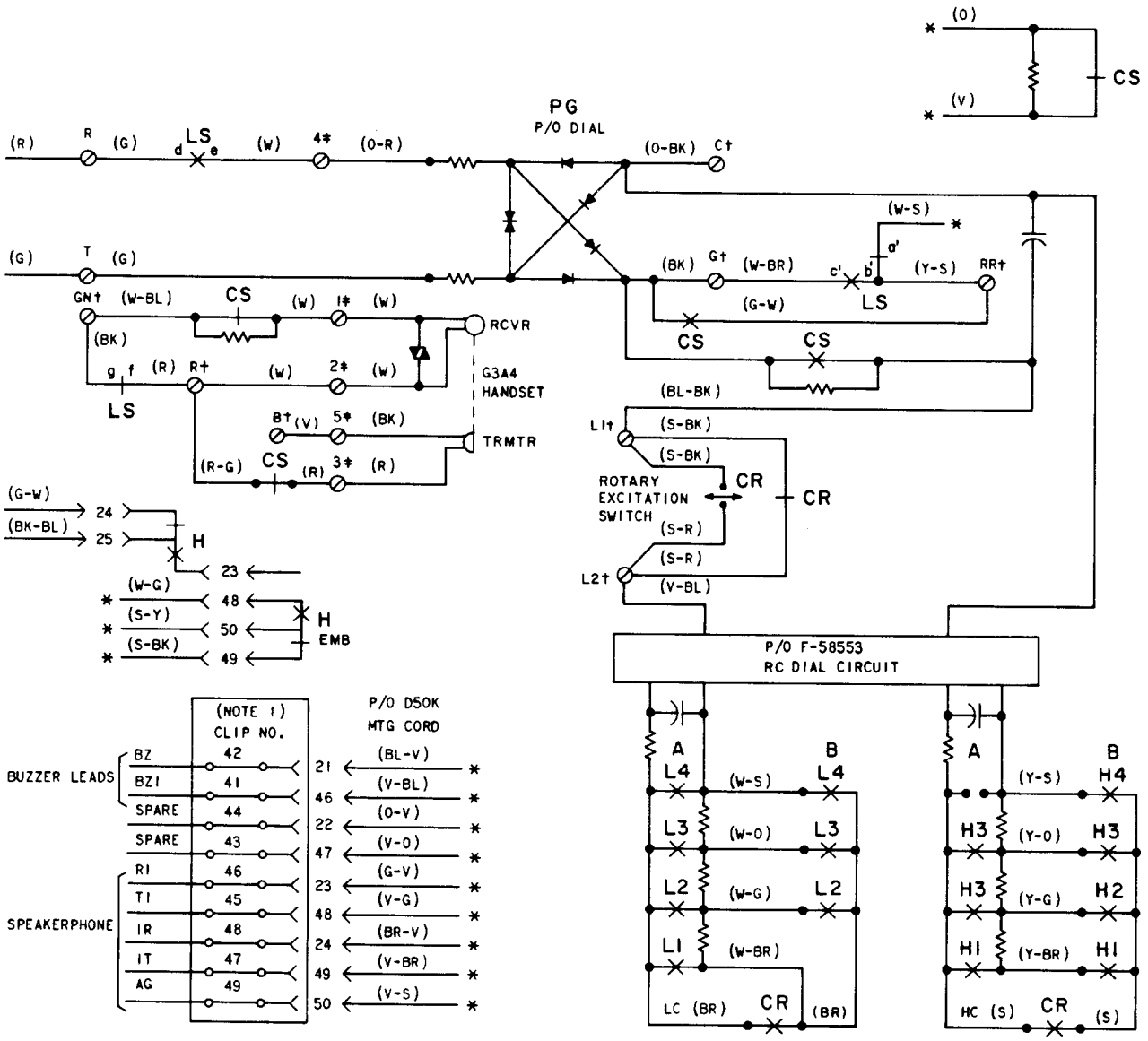


Fig. 5—F-58555 Telephone Set Connections (Sheet 1 of 2)



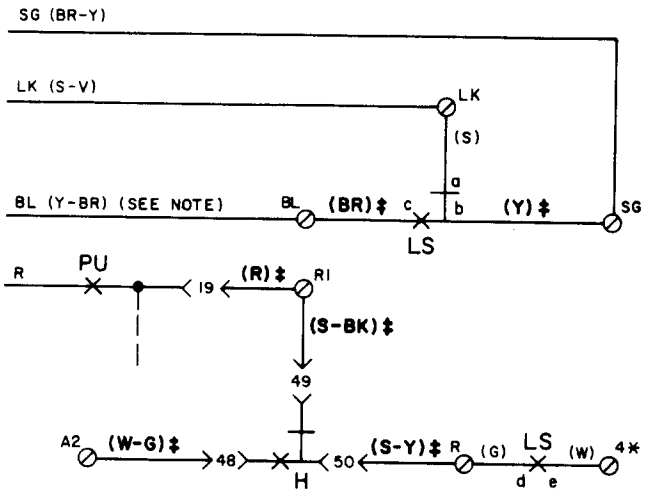
NOTES:

1. 66E-TYPE CONNECTING BLOCK SHOWN. MOUNTING CORD MAY BE PLUGGED DIRECTLY INTO CONNECTOR CABLE. COLORS AND PIN NUMBERS FOR CONNECTOR CABLE ARE SAME AS MOUNTING CORD.
2. AUXILIARY BUZZER MAY BE INSTALLED. USE SPARE LEADS AND TERMINALS TO CONNECT TO EQUIPMENT.
3. FOR BRIDGED RINGING ON 1ST LINE, CONNECT (R) RINGER LEAD TO (BL-W) AND (BK) RINGER LEAD TO (W-BL) INSULATED AND STORED LEADS. CONNECT (S) RINGER LEAD TO K AND (S-R) RINGER LEAD TO A OF NETWORK.
4. LINE SWITCH OFF-HOOK SEQUENCE:
   bc CLOSES
   de AND b'c' CLOSE
   ab AND a'b' OPEN
   fg OPENS

LEGEND

A – MANUAL DIAL CONTACTS
B – CARD READER DIAL CONTACTS
CR – CARD READER SWITCH
CS – COMMON SWITCH (DIAL)
LS – LINE SWITCH
PU – PICKUP KEY
H – HOLD KEY
PG – POLARITY GUARD
* – INSULATED AND STORED
† – 401OD NETWORK TERMINALS
‡ – SCREW TERMINALS LOCATED ON TB1, UNMARKED SCREW TERMINALS LOCATED ON TB2.

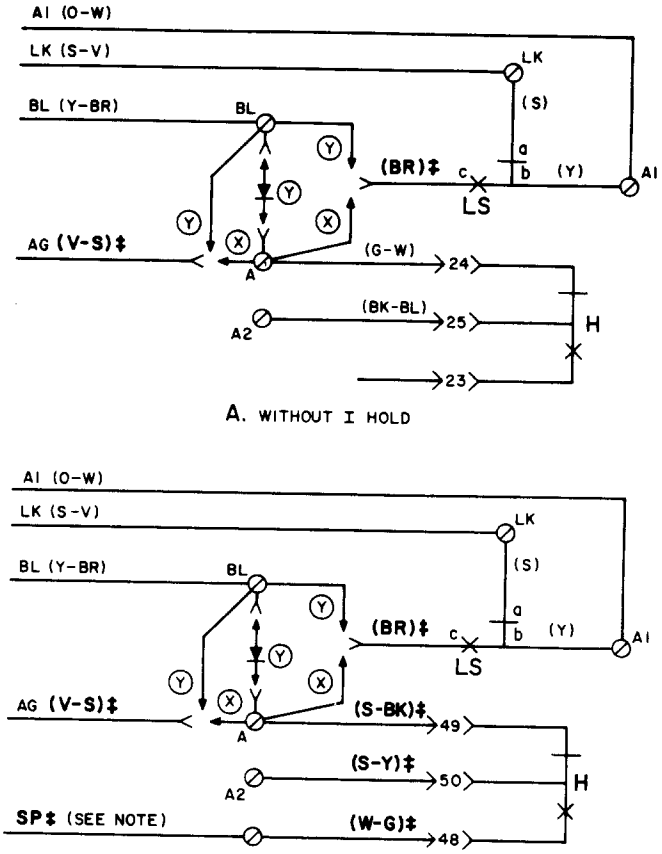
Fig. 5—F-58555 Telephone Set Connections (Sheet 2 of 2)



NOTE:
INSULATE AND STORE (Y-BR) MTG CORD LEAD WHEN STATION BUSY LAMP IS NOT REQUIRED

LS - LINE SWITCH
PU - PICKUP KEY
H - HOLD KEY
* - TERMINAL LOCATED ON TBI
‡ - LEADS INVOLVED IN MODIFICATION

Fig. 6—1A KTS and Station Busy Lamp Modifications



NOTE:
TERMINATE SP LEAD AS SHOWN USING SPARE MTG CORD LEAD AND SPARE TERMINAL.

LS - LINE SWITCH
H - HOLD KEY
‡ - LEADS INVOLVED IN MODIFICATION
(X) - WITHOUT BUSY LAMP
(Y) - WITH BUSY LAMP, USE KS-15724, L1 DIODE

Fig. 7—1A1-1A2 KTS I Hold and/or Station Busy Lamp Modifications