

2C VIDEO TELEPHONE STATION CONNECTIONS

1. GENERAL

1.01 This section provides connection information for the 2C Video Telephone Station when used as a single line station or as part of the 1P2 Key Telephone System.

1.02 This section is reissued to revise Table A, Fig. 2 and 3, and to add Fig. 4.

1.03 Connect single line 2C video stations as shown in Fig. 1. A terminal board in the 1A service unit provides terminating points for the various components of a single line 2C Video Telephone Station.

1.04 Fig. 2 shows connections for a typical key telephone set when used as part of a 2C Video Telephone Station.

1.05 Connect key telephone system 2C video stations as shown in Fig. 3. When a 66E3-25 connecting block is used, note that the last four pairs (video and control leads) of the D inside wiring cable are split out to connect to the 1A service unit. Fig. 4 shows the connections using a 149B adapter.

1.06 Cable pair assignments are shown in Table A; however, these terminations and lead

designations may vary depending on the service required at each station. Where spare conductors are available, they may be used for audio and control leads. Video and audio leads must be paired. Use spare conductors according to local instructions. For cross connection of lamp, ringing, audio and video leads, twisted paired leads must be used.

1.07 Where a polarity guard is required in the telephone sets used, connect as shown in the connection section of the set involved.

2. CONNECTION INDEX

Table A—Inside Wiring Cable Connections, Key Telephone Station to 650A KSU or J53051A and B Bays.

Fig. 1—Single Line Video Telephone Station, Connections.

Fig. 2—Wiring of Typical Key Telephone Set used with Video Telephone Station.

Fig. 3—Key System Video Telephone Station, Connections Using 66E3-25 Connecting Block

Fig. 4—Key System Video Telephone Station, Connections Using 149B Adapter

→TABLE A←

**INSIDE WIRING CABLE CONNECTIONS, KEY TELEPHONE STATION TO
650A KSU OR J53051A AND B BAYS**

COLOR		CIRCUIT	LEAD DESIGNATION			66 TYPE CONN BLK (CLIP NO.)	149B* ADPT (TERM. NO.)
IW CABLE	MTG CORD OR CONN CABLE		VIDEO TELEPHONE STATION	AUDIO OR EXT STATION	TA SERVICE UNIT		
W-BL BL-W W-O O-W W-G G-W		1st Video Telephone Line	T R A A1 LG L	T R A† A1 LG L		1 2 3 4 5 6	A1
W-BR BR-W W-S S-W R-BL BL-R		2nd Video Telephone Line or CO, Centrex, or PBX Line	T R A LG L	T R A† LG L		7 8 9 10 11 12	
R-O O-R R-G G-R R-BR BR-R		CO, Centrex, or PBX Line, Inter- Com Line or Signaling	T R A LG L	T R A† LG L		13 14 15 16 17 18	
R-S S-R BK-BL BL-BK BK-O O-BK		CO, Centrex, or PBX Line, Inter- Com Line or Signaling	T R A, S, or S1 LG L	T R A, S, or S1† LG L		19 20 21 22 23 24	
BK-G G-BK BK-BR BR-BK BK-S S-BK		Conference CO, Centrex, or PBX Line, Inter- Com Line or Sig	T or Spare R or Spare A, S, or S1 LG or CLG L or CL	T R A, S, or S1† LG L		25 26 27 28 29 30	
Y-BL BL-Y Y-O O-Y		CALL-A- MATIC Power (When Req)	AC or Spare AC or Spare Spare Com or Spare	Spare		31 32 33 34	

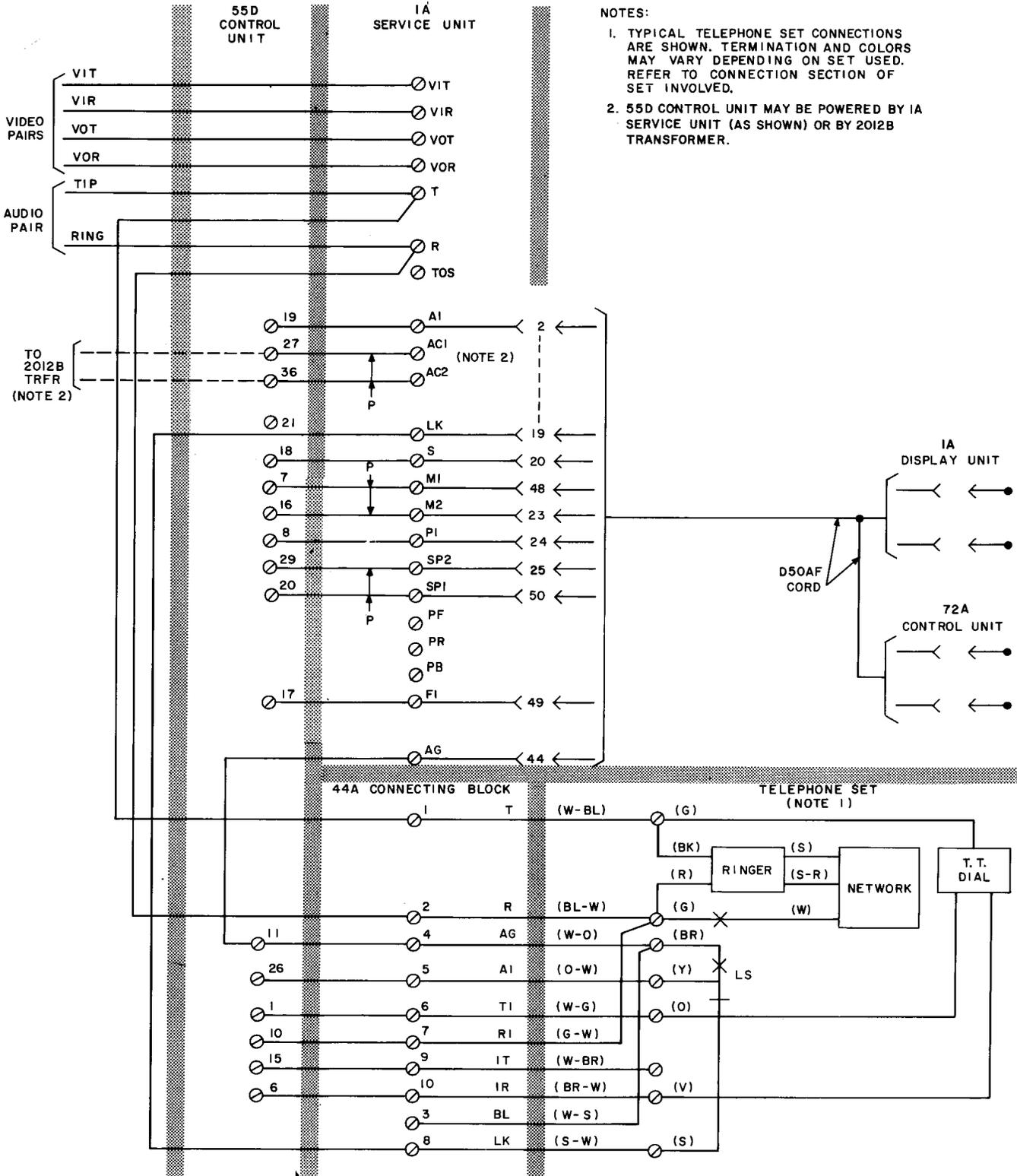
→TABLE A (Cont)←

COLOR		CIRCUIT	LEAD DESIGNATION			66 TYPE CONN BLK (CLIP NO.)	149B* ADPT (TERM. NO.)
IW CABLE	MTG CORD OR CONN CABLE		VIDEO TELEPHONE STATION	AUDIO OR EXT STATION	1A SERVICE UNIT		
Y-G G-Y		Hold Lamp	HLG HL	HLG HL		35 36	
Y-BR BR-Y		Sta Bsy Lp Sig Grd	BL SG	BL SG		37 38	
	Y-S S-Y	Com or Line Ringer	RT RR	RT RR		39 40	2A‡ 1A‡
Y-S S-Y			B1 R1	B1 R1		39 40	2B‡ 1B‡
V-BL BL-V		Buzzer	BZ BZ1	BZ BZ1		41 42	
	V-O O-V	Spare				43 44	
	V-G G-V V-BR BR-V V-S S-V	Speaker- phone*	T1 R1 IT IR AG LK	TI RI IT IR AG LK		45 46 47 48 49 50	8A 7A 10A 9A 12A 11A
	V-O O-V V-G G-V V-BR BR-V V-S S-V	Video Telephone*			PB PR VOT VOR TOS PF VIT VIR		6B 5B 8B 7B 10B 9B 12B 11B

*When using connector cable instead of D inside wiring cable, use 149B adapter in place of 66E3-25 connecting block to break out speakerphone and video leads.

†If a video station and an audio station are wired from same key cable, A leads from audio station must be wired back to KSU on separate conductors.

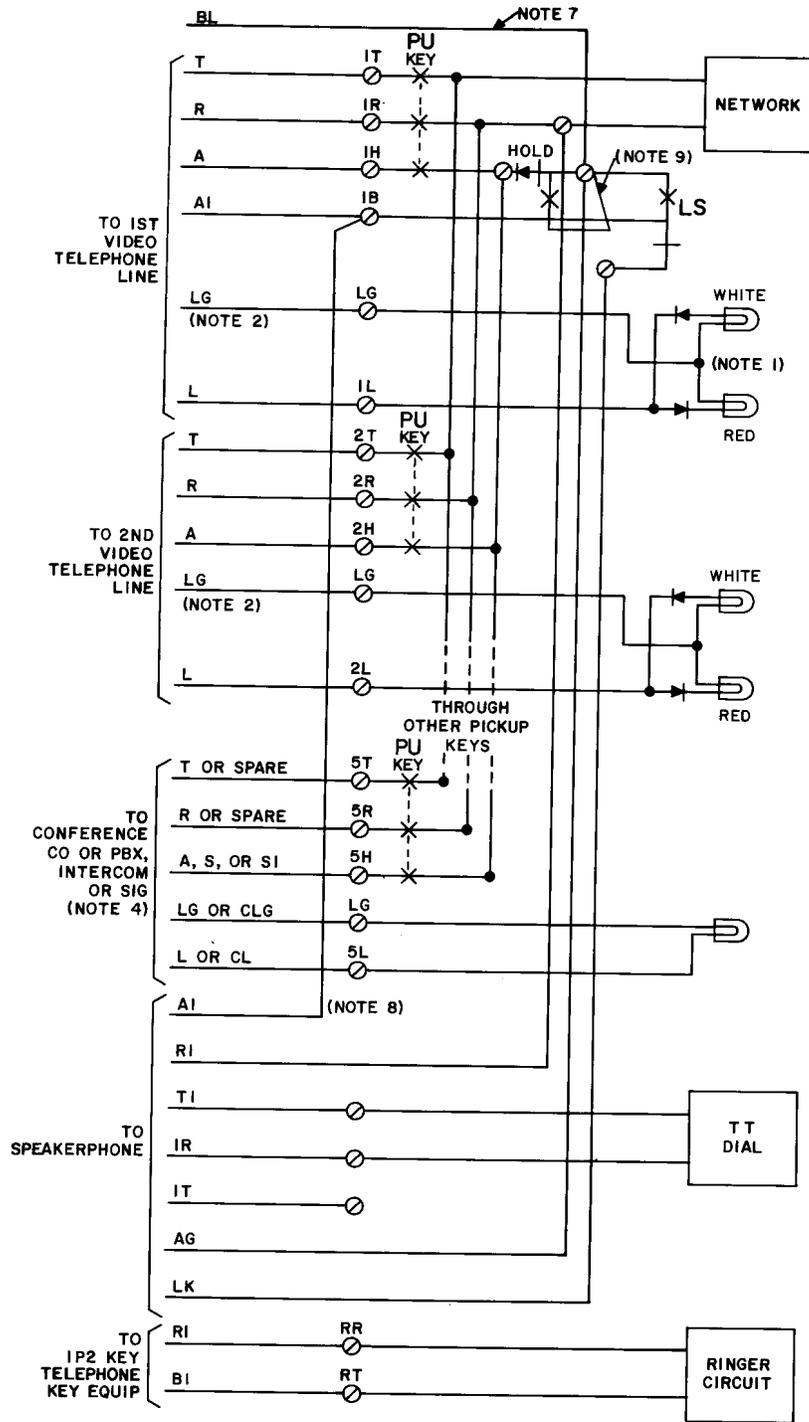
‡Strap 1A to 1B and 2A to 2B on 149B adapter.



NOTES:

1. TYPICAL TELEPHONE SET CONNECTIONS ARE SHOWN. TERMINATION AND COLORS MAY VARY DEPENDING ON SET USED. REFER TO CONNECTION SECTION OF SET INVOLVED.
2. 55D CONTROL UNIT MAY BE POWERED BY IA SERVICE UNIT (AS SHOWN) OR BY 2012B TRANSFORMER.

Fig. 1—Single Line Video Telephone Station, Connections

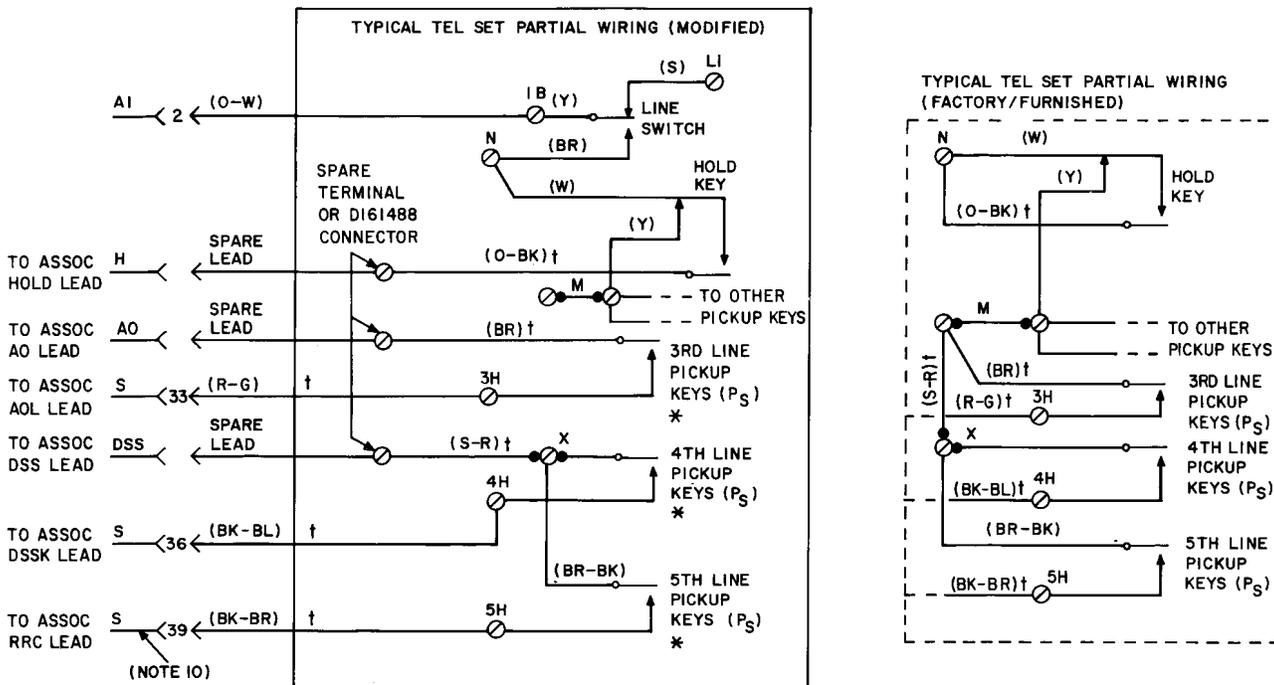


◆ Fig. 2—Wiring of Typical Key Telephone Set Used With Video Telephone Station (Sheet 1) ◆

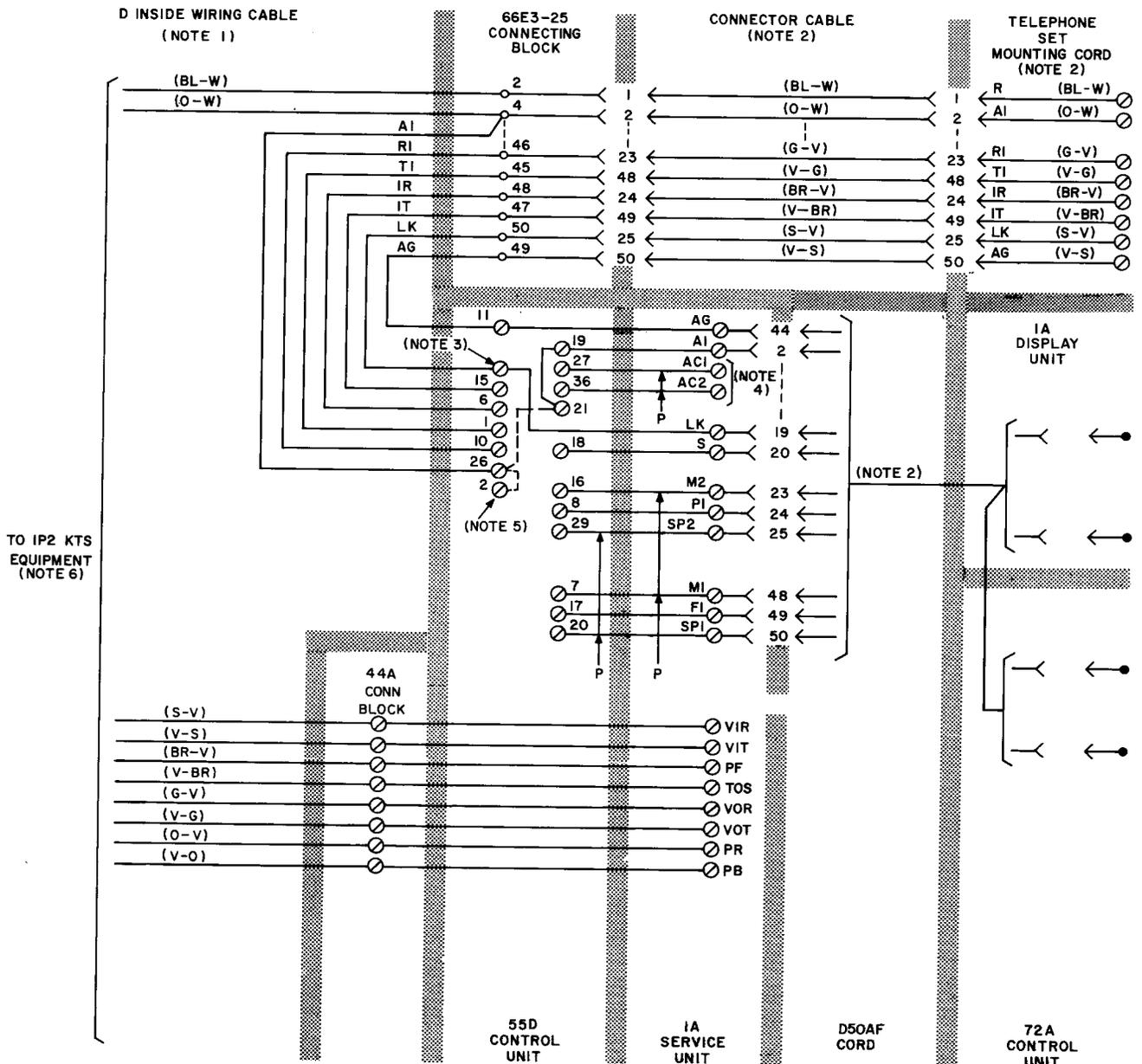
NOTES:

1. REPLACE 51A LAMP WITH KS-20673,LI LAMP IN ALL KEY POSITIONS HAVING VIDEO TELEPHONE SERVICE.
2. CONNECT LAMP GROUNDS FOR ALL VIDEO TELEPHONE LINES TO POWER SUPPLY GROUND.
3. ALL PICKUP BUTTONS NOT USED FOR VIDEO TELEPHONE SERVICE OR CONFERENCING MAY BE USED FOR OTHER KEY SYSTEM SERVICES.
4. WHEN USED FOR CONFERENCING OR SIGNALING, CONVERT BUTTON TO NONLOCKING.
5. TERMINATING POINTS MAY VARY DEPENDING ON TELEPHONE SET USED. REFER TO CONNECTION SECTION OF SET INVOLVED.
6. CONNECTIONS FOR AN AUDIO TELEPHONE SET ARE THE SAME AS SHOWN EXCEPT THE CONFERENCING KEY IS NOT REQUIRED.
7. BL LEAD AND DIODE (446F) MUST BE PROVIDED WHEN ADD-ON CONFERENCE OR BRIDGED HUNTING (INTERCOM) IS USED. REFER TO APPROPRIATE CONNECTION SECTION.
8. AI LEAD TO SPEAKERPHONE MAY BE OBTAINED FROM 66-TYPE CONNECTING BLOCK OR 149-TYPE ADAPTER.
9. WHEN FURNISHING GROUND TO HOLD CIRCUIT (H LEAD) IN 2-OR 3-LINK INTERCOM ARRANGEMENT CONNECT LEAD COMING FROM HOLD KEY MAKE CONTACT TO SPARE MOUNTING CORD CONDUCTOR USING SPARE TERMINAL OR A D-161488 CONNECTOR. SEE BELOW FOR MODIFICATION OF TYPICAL TELEPHONE SET FOR HOLD, DIRECT STATION SELECTION AND REGISTER RECALL.
10. IF REQUIRED, A NUMBER OF RRC LEADS CONNECTING TO AN S LEAD MAY BE BUNCHED AT AN EXTERNALLY MOUNTED 66-TYPE CONNECTING BLOCK OR EQUIVALENT.

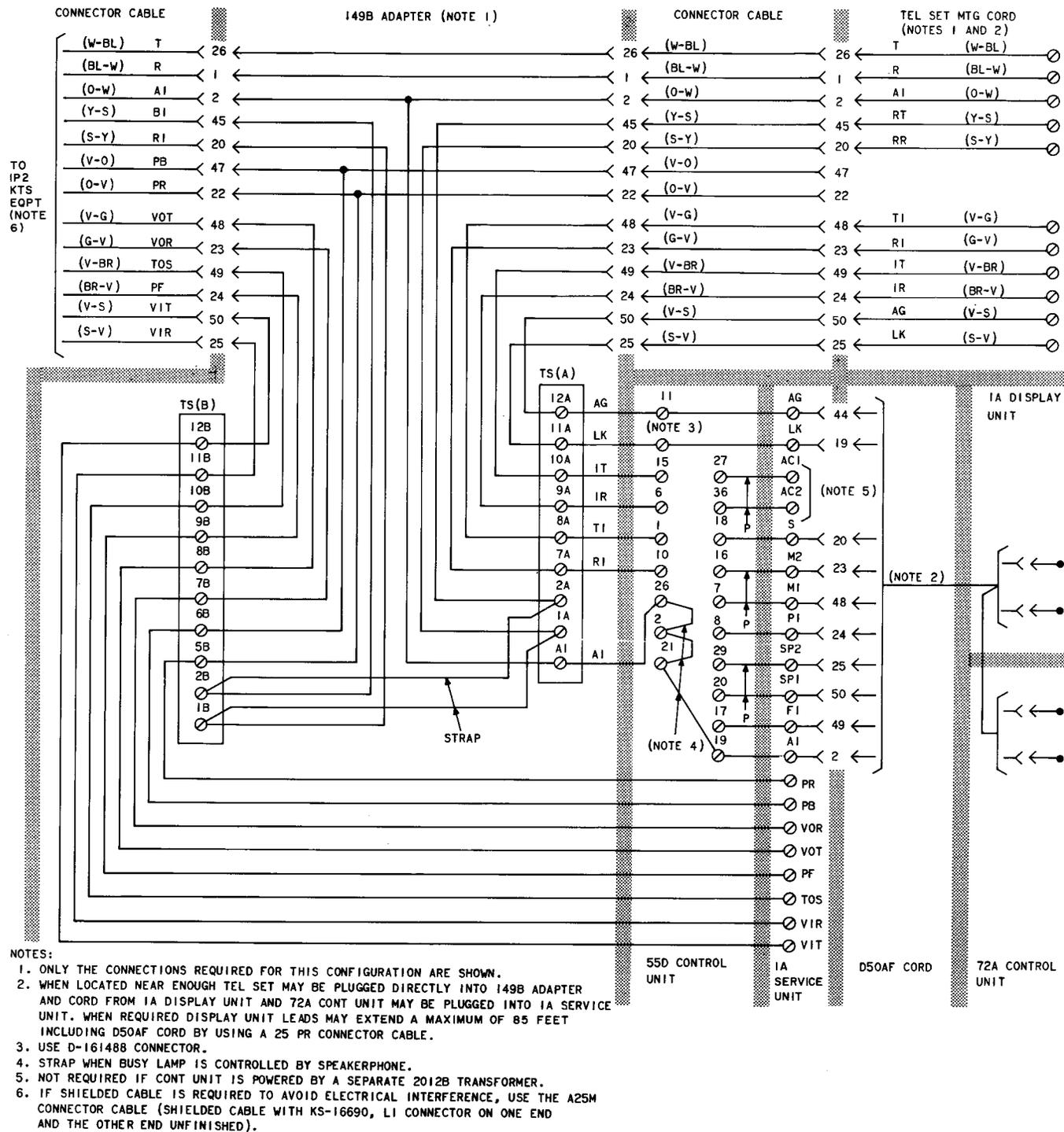
* CONVERT PICKUP KEY TO SIGNALING KEY
 † LEAD INVOLVED IN MODIFICATION



◆ Fig. 2—Wiring of Typical Key Telephone Set Used With Video Telephone Station (Sheet 2) ◆



◆ Fig. 3—Key System Video Telephone Station, Connections Using 66E3-25 Connecting Block ◆



◆ Fig. 4—Key System Video Telephone Station Connections Using 149B Adapter ◆