

## **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** Single line station connections from the central office, 1A display unit, 55D control unit, and telephone set connecting block are made in the 1A service unit. A terminal board in the service unit provides the termination point for these connections.

**1.03** Connections between the various components of a 2C video telephone station are shown in Fig. 1. Telephone set termination points are shown for a typical single line set only. Refer to the appropriate connection section for the telephone set involved.

**1.04** Wiring of a typical key telephone set used with a 2C video telephone station is shown in Fig. 2. All terminating points are not shown since they may vary depending on the set used. Refer to the appropriate connection section for the set involved.

**1.05** Connections between the telephone set and the other units comprising a video station

are shown in Fig. 3. Typical cable pair assignments to the telephone set are shown in Table A. Again, these terminations and lead designations may vary depending on the services required at each station. Where spare conductors are available, they may be used for video, audio, and control leads. Video and audio must be paired. Local instructions will apply to the use of spare conductors.

**1.06** 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

**TABLE A**  
**INSIDE WIRING CABLE CONNECTIONS, KEY TELEPHONE STATION TO**  
**650A KSU OR J53051 A AND B BAYS**

COLOR		CIRCUIT	LEAD DESIGNATION			66 TYPE CONN BLK CLIP NO.	149- TYPE ADPT TERM. NO.
IW CABLE	MTG CORD		VIDEO TELEPHONE STATION	AUDIO OR EXT STATION	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 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 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 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 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	

BLUE-WHITE BINDER (NOTE 1)

TABLE A (Cont)

COLOR		CIRCUIT	LEAD DESIGNATION			66 TYPE CONN BLK CLIP NO.	149 TYPE ADPT TERM. NO.
IW CABLE	MTG CORD		VIDEO TELEPHONE STATION	AUDIO OR EXT STATION	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	
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 Note 2	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 Note 2			PB PR TOS PF VOT VOR VIT VIR		6B 5B 8B 7B 10B 9B 12B 11B

† 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.

**Notes:**

1. Connections shown for BL-W binder assume speakerphone control unit is located near service unit and exclusion is not provided allowing use of spares for PICTUREPHONE service.
2. When using connector cable (in place of 66E3-25 connecting block) use 149A adapter to break out speakerphone and video leads.

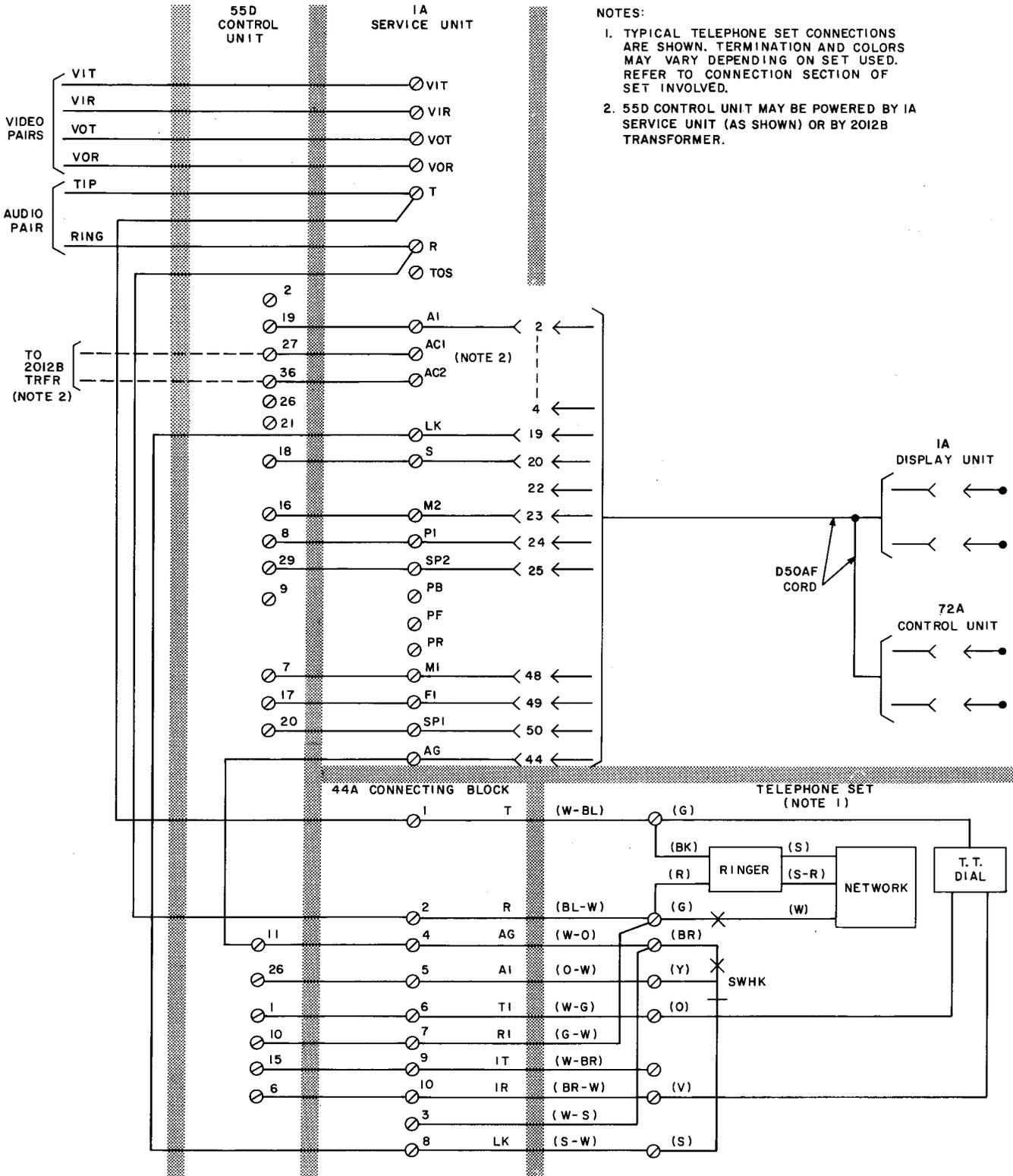
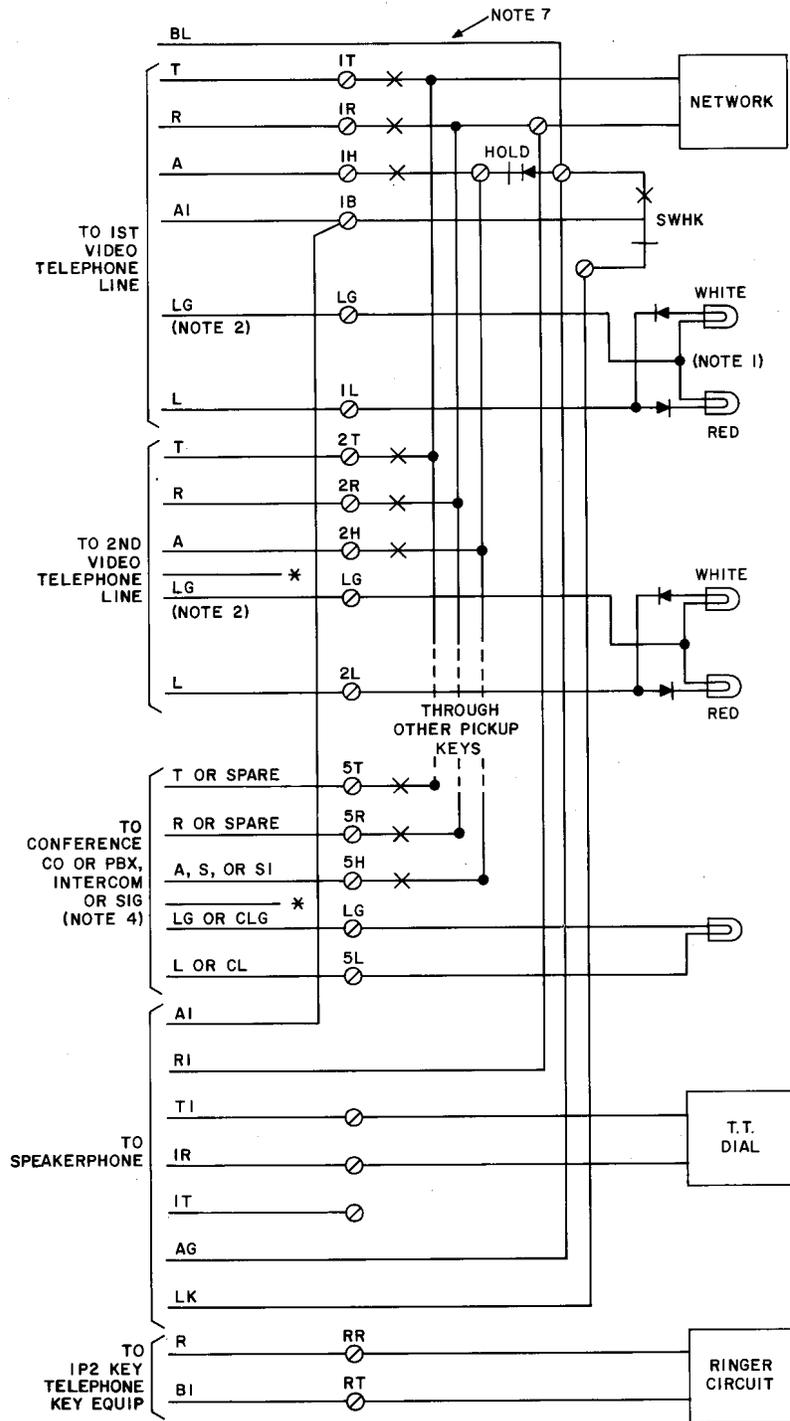


Fig. 1—Single Line Video Telephone Station, Connections



NOTES:

1. REPLACE 51A LAMP WITH KS-20673 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 CONFERRING MAY BE USED FOR OTHER KEY SYSTEM SERVICES.
  4. WHEN USED FOR CONFERRING 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 A SECONDARY TELEPHONE SET ARE THE SAME AS SHOWN EXCEPT THE CONFERRING 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.
- \* INSULATE AND STORE.

Fig. 2—Wiring of Typical Key Telephone Set Used With Video Telephone Station

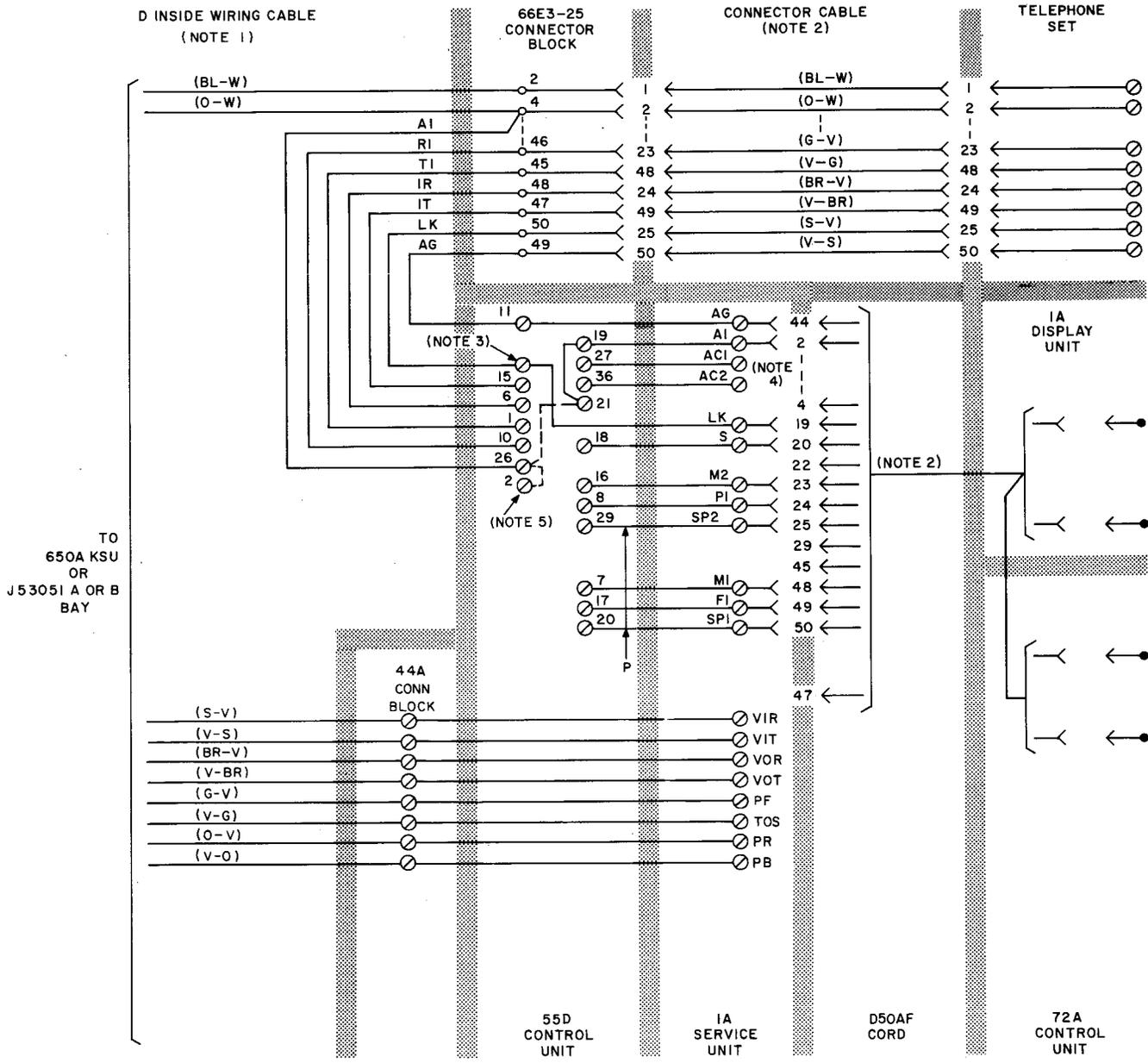


Fig. 3—Key System Video Telephone Station, Connections