

SYNCHRONOUS "DATASPEED\*" 40/4

MAXI-CLUSTER AND MINI-CLUSTER STATION ARRANGEMENTS

WIRING DIAGRAMS

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BACK PANEL INTERNAL WIRING .....	14	1.01 This section provides wiring diagrams and cable components for the DATASPEED 40/4 equipment with the following exceptions:	
40PSU102 POWER SUPPLY .....	22	1. Monitor, see Section 582-213-400.	
OPCONS .....	24	2. Monitor Support Cabinet, see Section 582-212-400.	
A. 40K104/DAB (Early Design) Opcon .....	24	3. Printer Cabinet, see Section 582-210-400.	
B. 40K104/DAB (Late Design), 40K105/CAA, or 40K203/GAB Opcons .....	25	4. Printer, see Section 582-210-400.	
CABLE ASSEMBLIES .....	26	5. 40KDA101 Keyboard Display Amplifier, see Section 582-200-212.	
A. Data Set Cable Assemblies — SCC, MCC .....	26	6. Keyboard Disable Lock Feature for Attached KD, see Section 582-211-210.	
		1.02 This section is reissued to provide cover- age for the 40K203/GAB opcon.	

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This section is a general revision, therefore marginal arrows have been omitted.

1.03 Abbreviations in this section are defined in Section 582-200-101.

1.04 This information when used in conjunction with Testing and Troubleshooting Section 582-200-501 will aid in locating cabling faults.

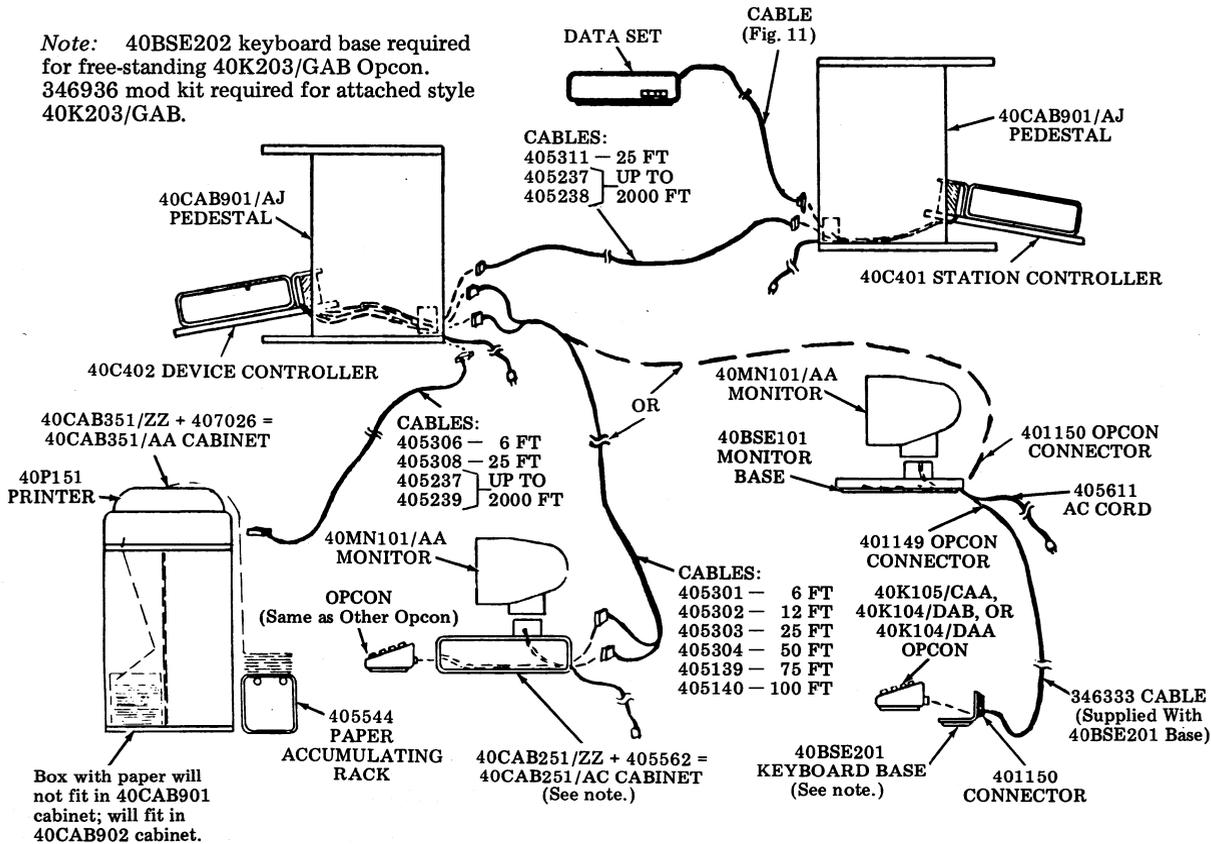
1.05 Voltage levels are provided in power supply diagrams only.

*Note:* When ordering replaceable components, unless otherwise specified, prefix each part number with the letters "TP" (ie, TP410055).

## 2. WIRING DIAGRAMS

## MAXI-CLUSTER (SCC/DCC) ARRANGEMENTS

*Note:* 40BSE202 keyboard base required for free-standing 40K203/GAB Opcon.  
346936 mod kit required for attached style 40K203/GAB.



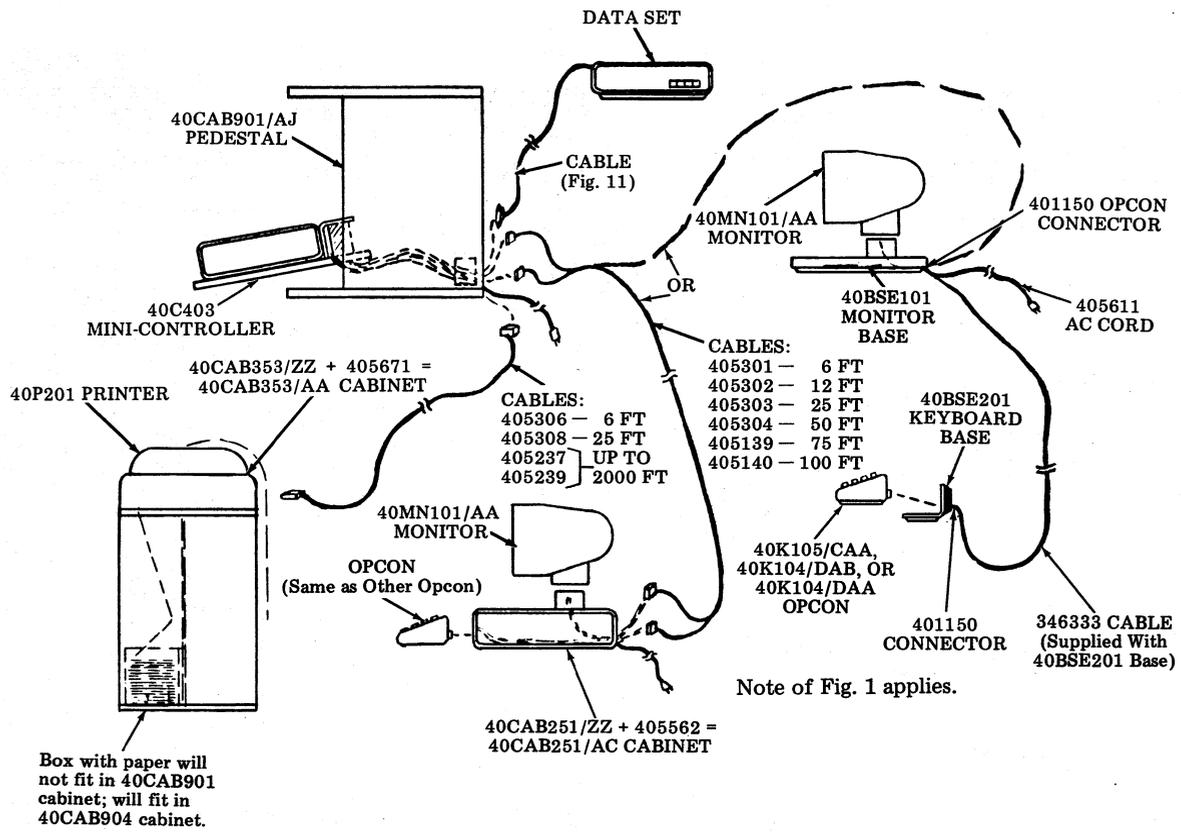


Fig. 2

410200 BACK PANEL (Early Design) — PHYSICAL LAYOUT

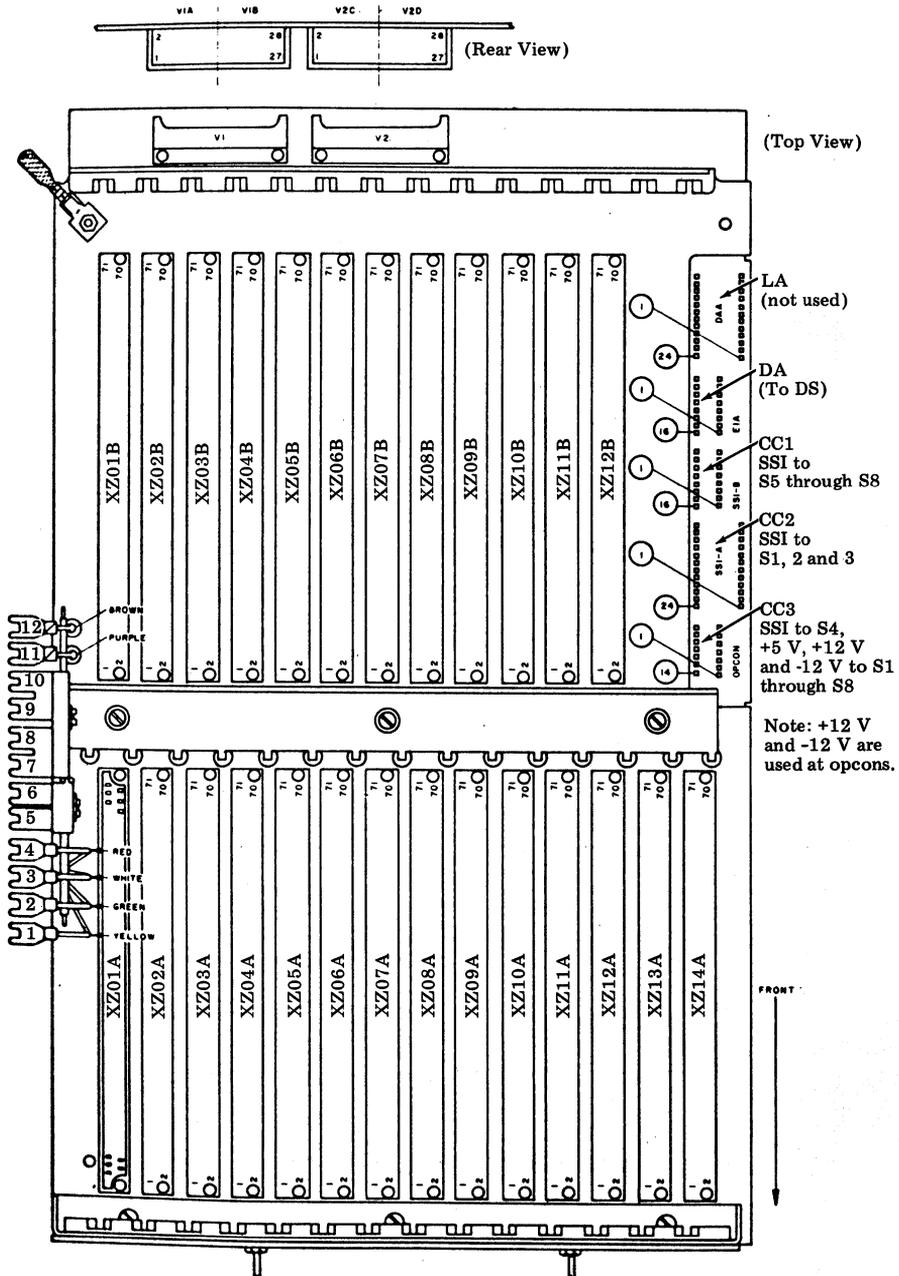


Fig. 3

410201 BACK PANEL (Late Design) – PHYSICAL LAYOUT

Note: The V1 and V2 pin numbers are the same as 410200 back panel (early design).

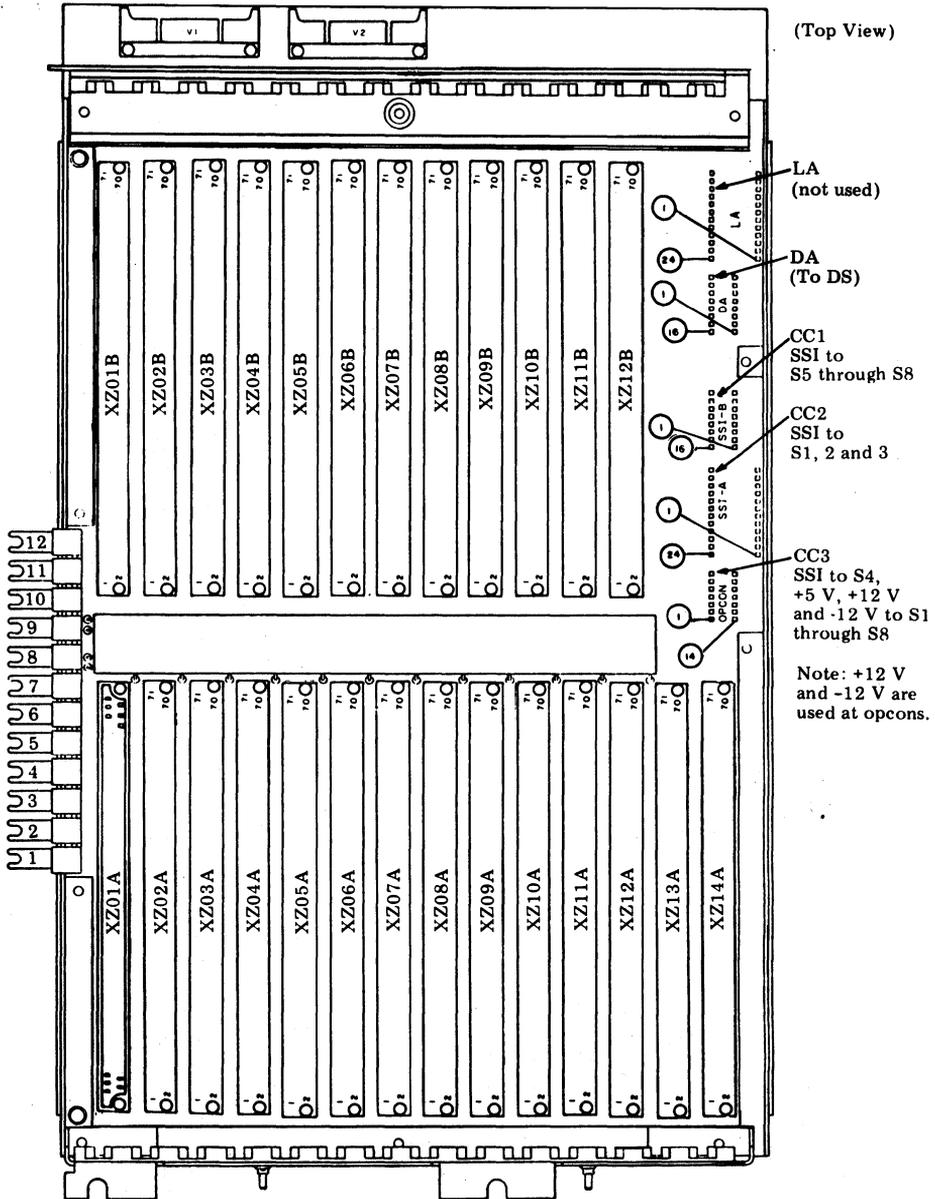


Fig. 4

405150 INTERCONNECTION MODULE — PHYSICAL LAYOUT

Note: A 405150 interconnection module for an SCC is illustrated. Interconnection modules not illustrated are 405151 for a DCC and 405152 for a MCC.

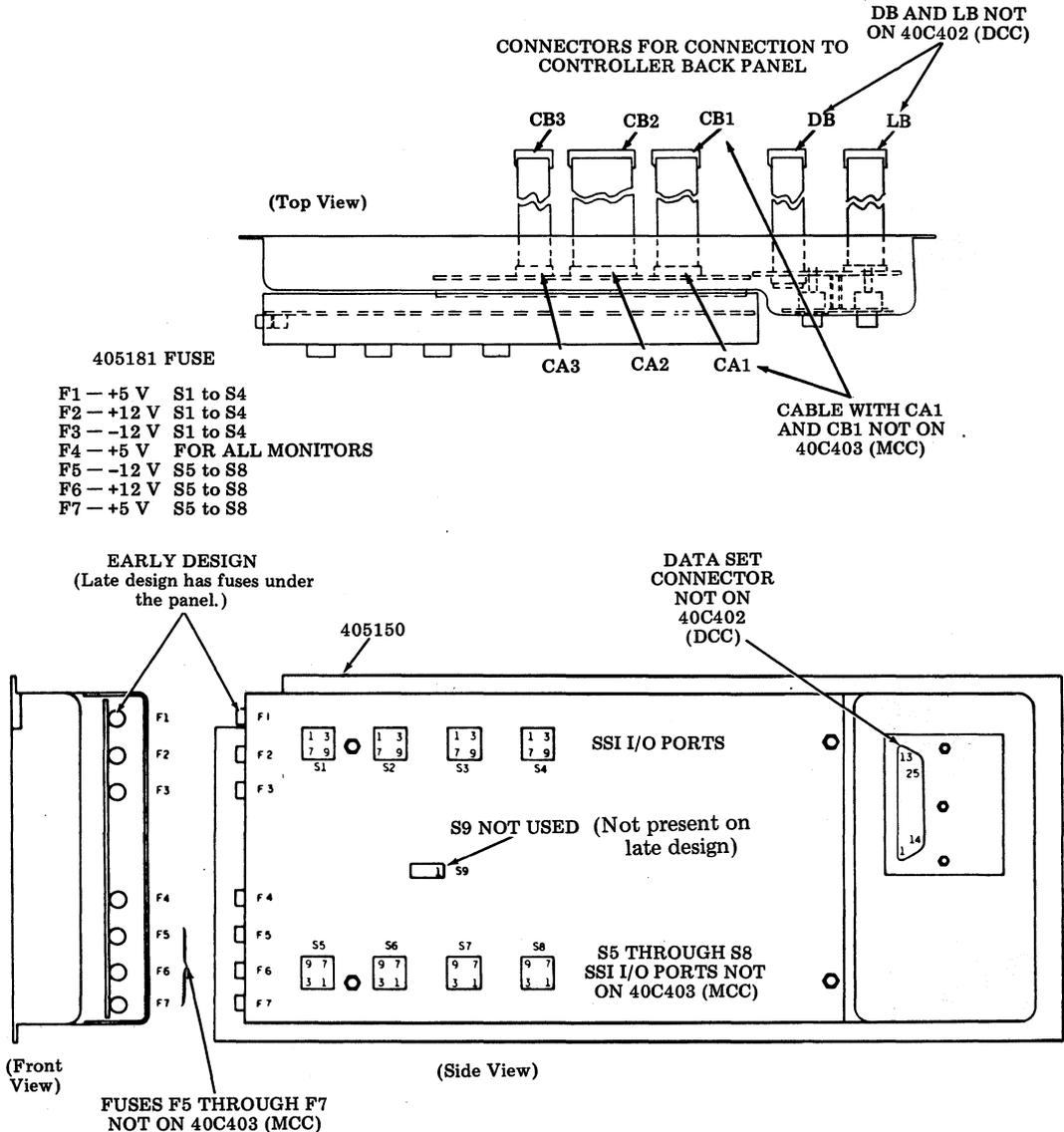


Fig. 5

BACK PANEL AND INTERCONNECTION MODULE WIRING (Continued on Pages 9 through 13)

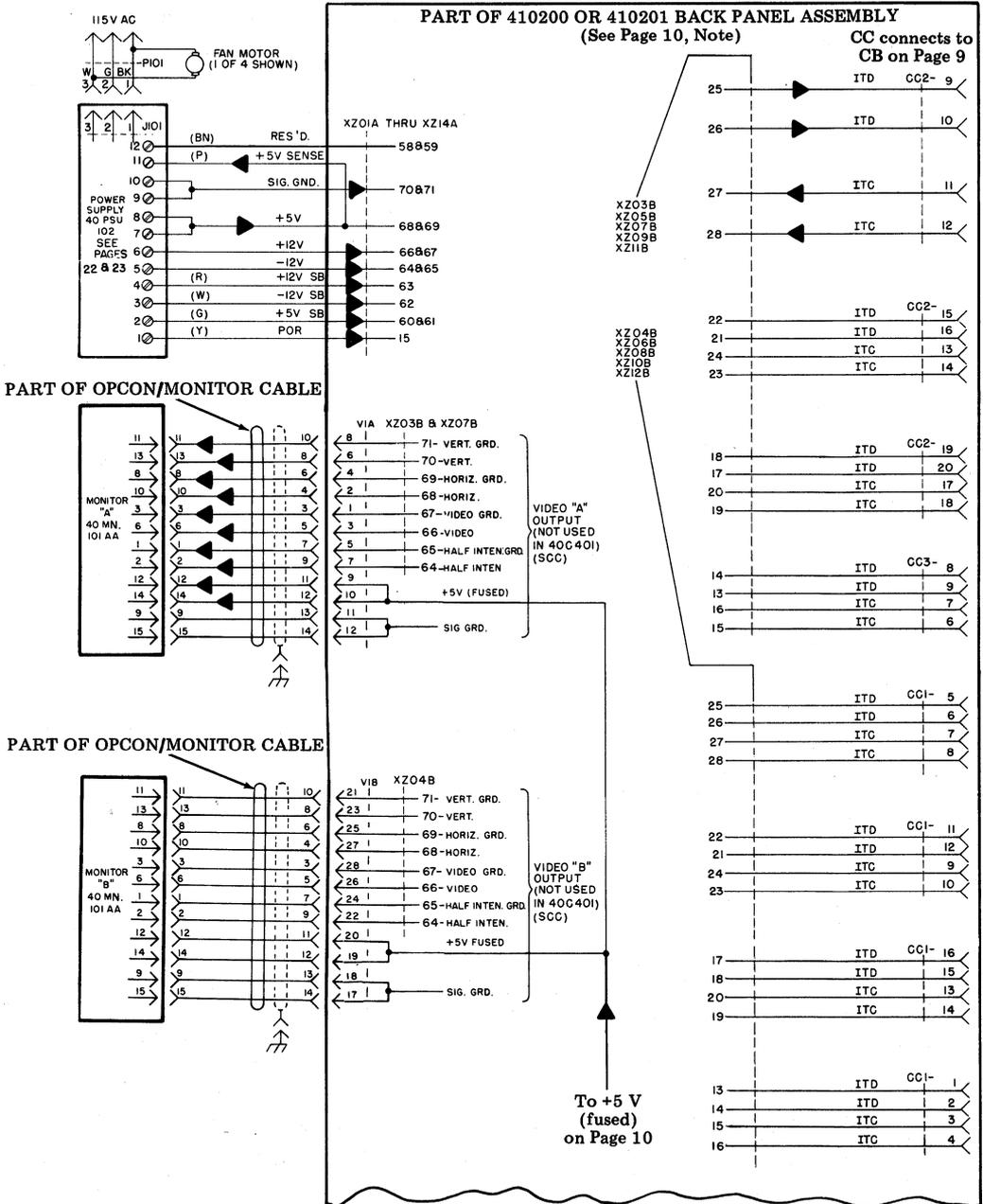


Fig. 6

(Back panel continued on Page 10)

BACK PANEL AND INTERCONNECTION MODULE WIRING (Cont)

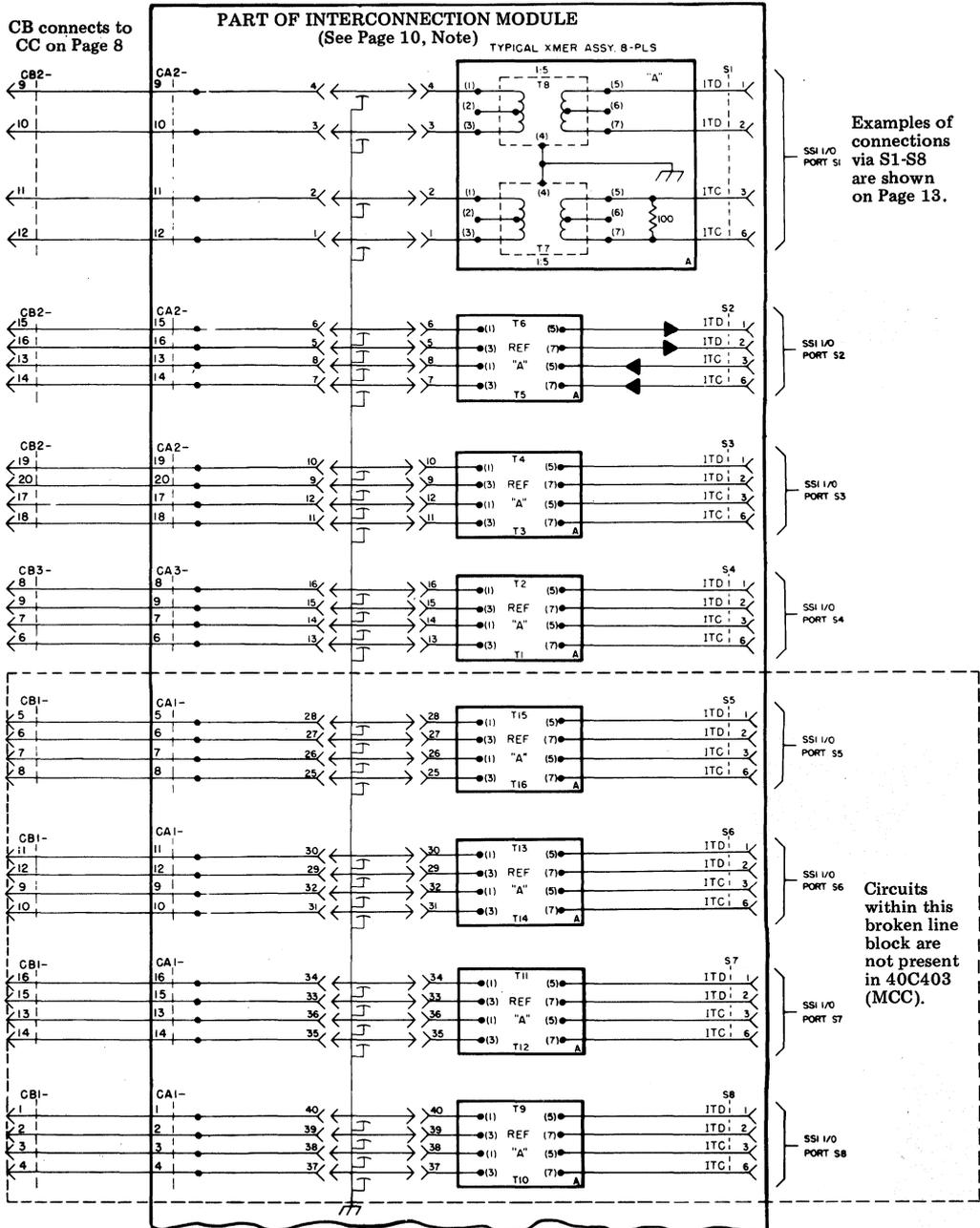


Fig. 6 (Cont)

(Interconnection module continued on Page 11)

BACK PANEL AND INTERCONNECTION MODULE WIRING (Cont)

(Back panel continued from Page 8)

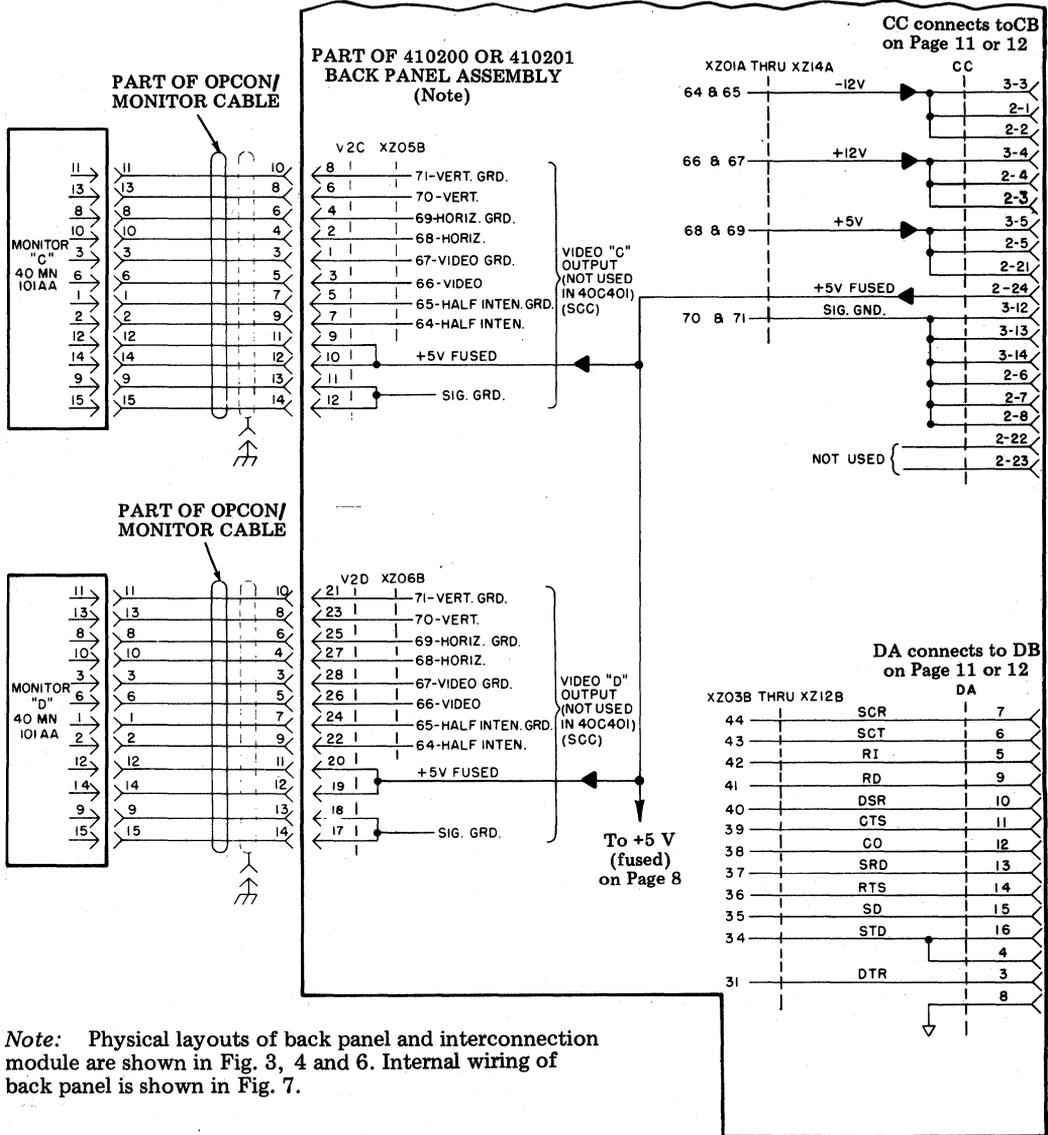
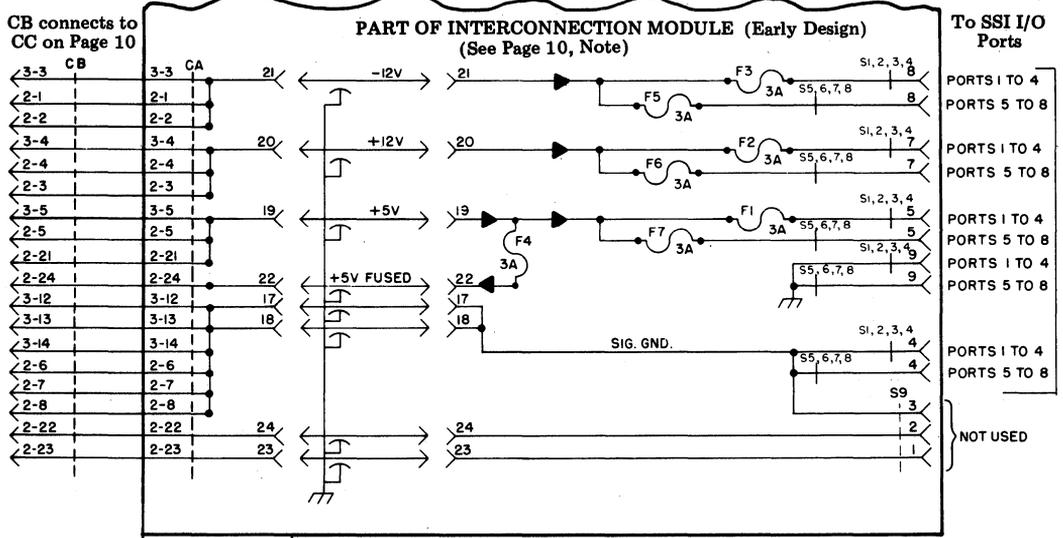


Fig. 6 (Cont)

BACK PANEL AND INTERCONNECTION MODULE WIRING (Cont)

(Interconnection module continued from Page 9)

Examples of connections via S1-S8 are shown on Page 13.



Page 12 shows the late design interconnection module circuits.

BACK PANEL AND INTERCONNECTION MODULE WIRING (Cont)

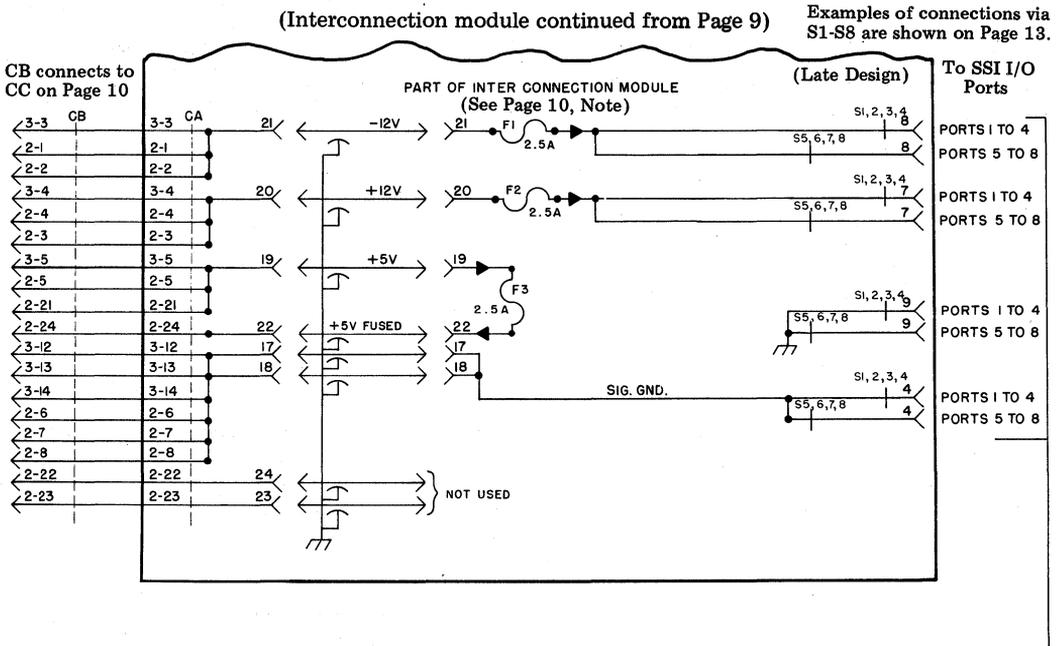


Fig. 6 (Cont)

Page 11 shows the early design interconnection module circuits.

BACK PANEL AND INTERCONNECTION MODULE WIRING (Cont)

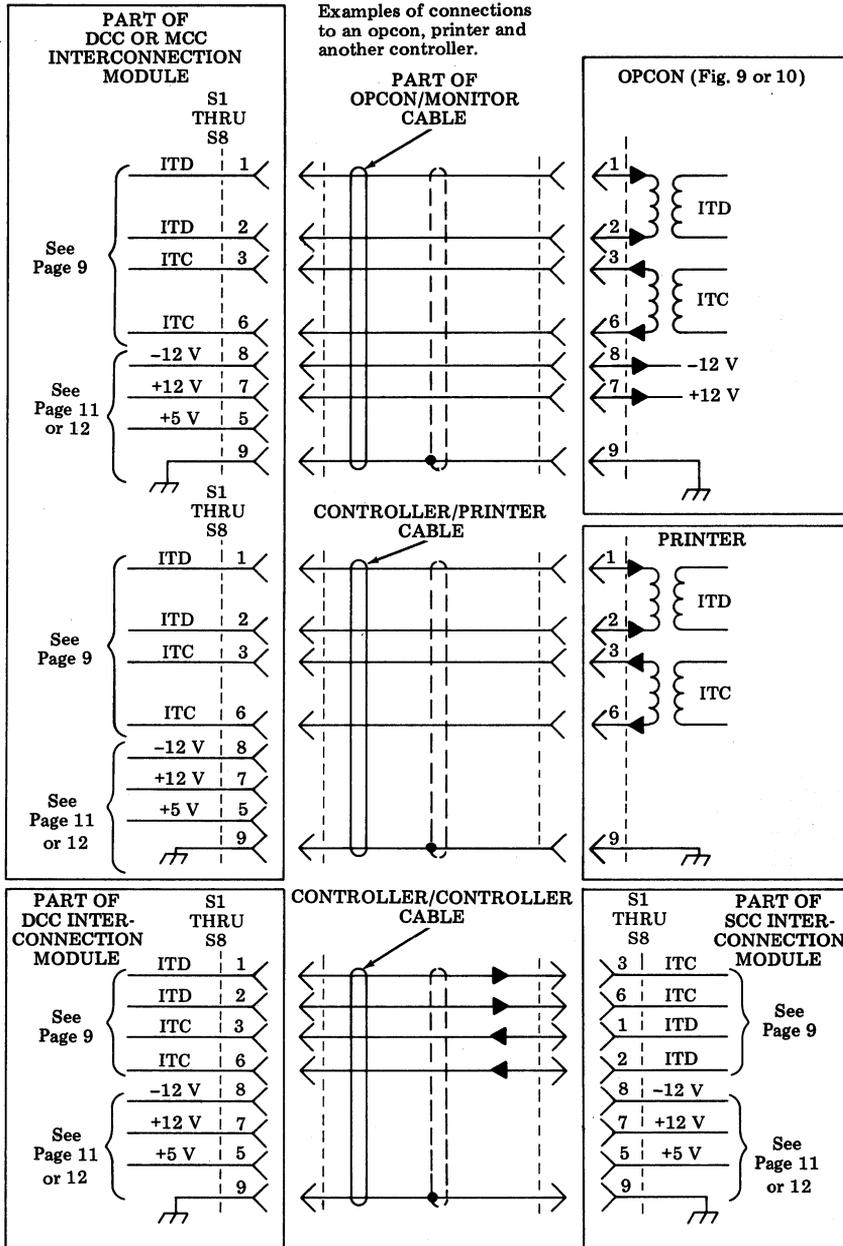
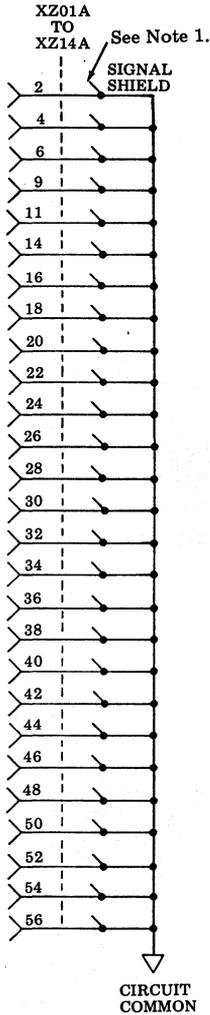


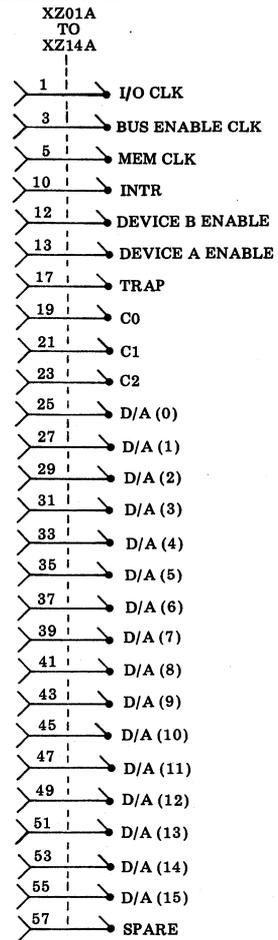
Fig. 6 (Cont)

BACK PANEL INTERNAL WIRING (Continued on Pages 15 through 21)

COMMON SHIELDING



COMMON BUSING



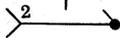
Note 1:  Indicates multiple connection, ie, terminal "2" is common to all connectors "01A" to "14A".

Fig. 7

BACK PANEL INTERNAL WIRING (Cont)

**INTERRUPT GRANT  
WIRING**

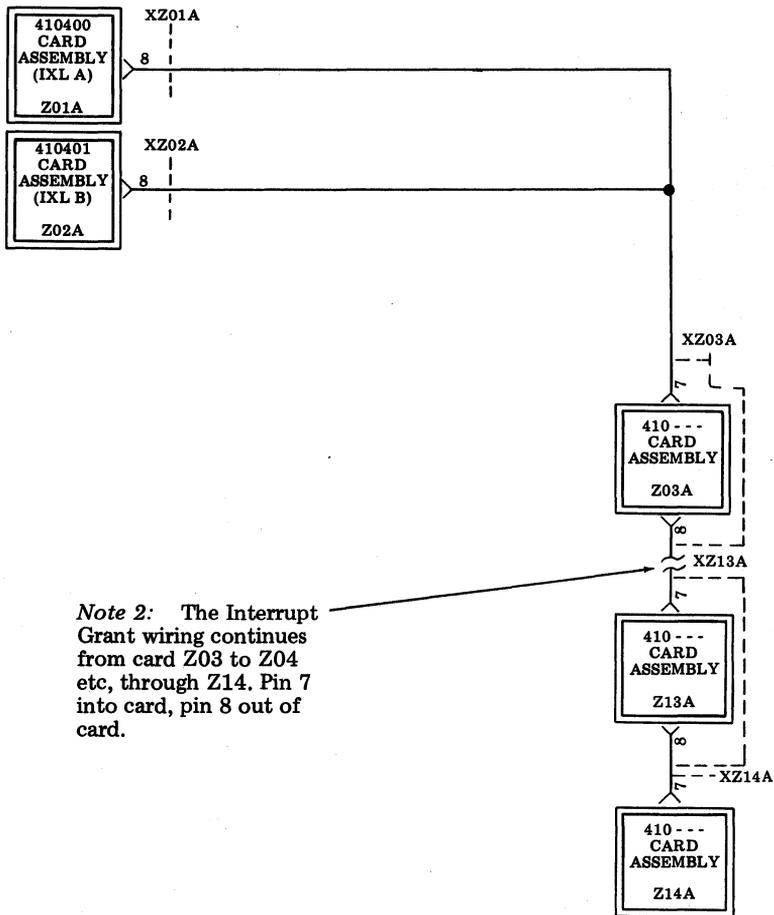


Fig. 7 (Cont)



BACK PANEL INTERNAL WIRING (Cont)

SSI

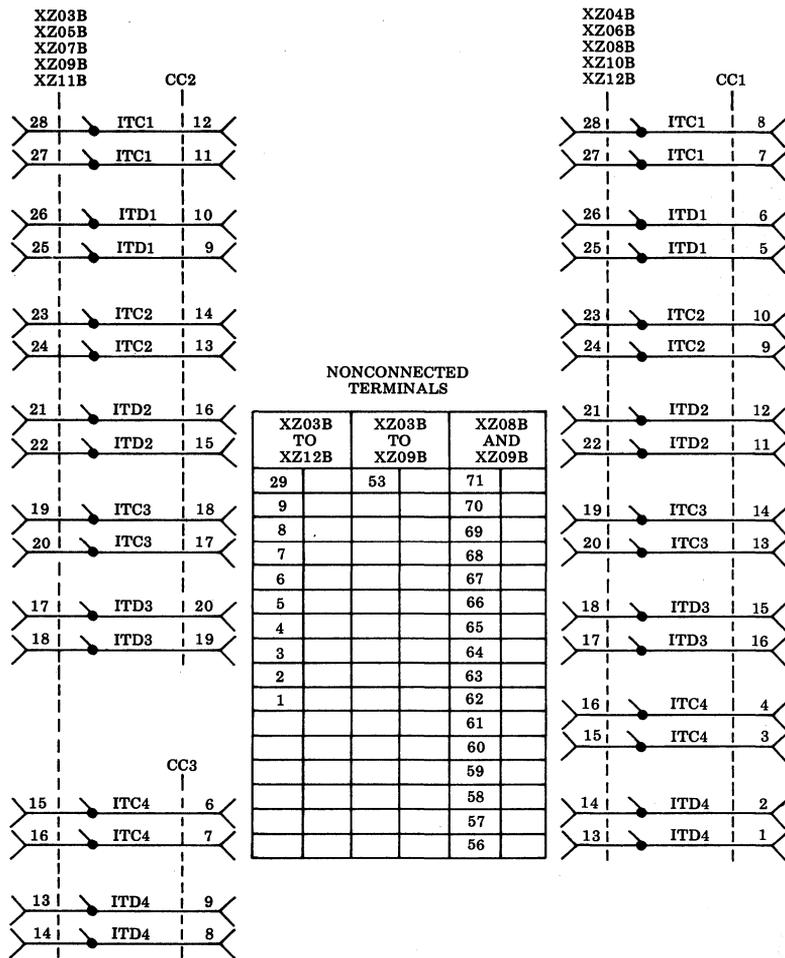


Fig. 7 (Cont)

BACK PANEL INTERNAL WIRING (Cont)

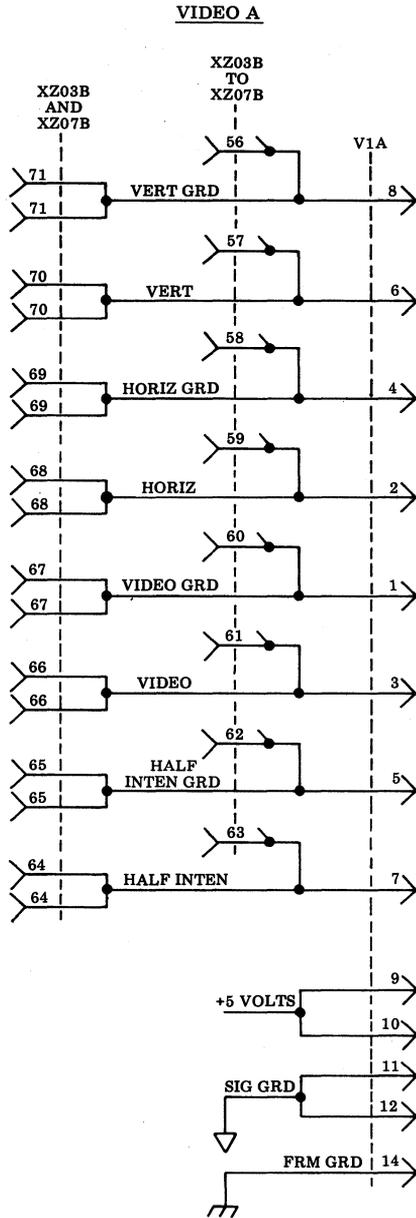
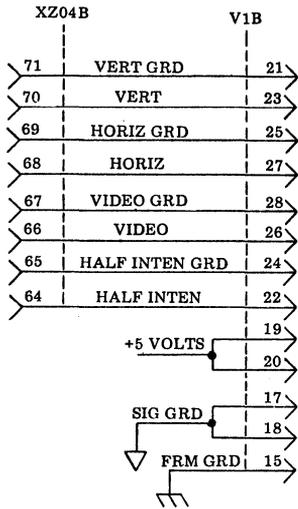


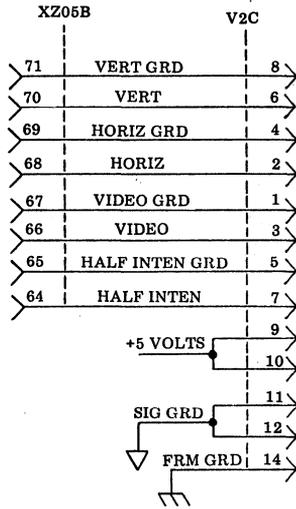
Fig. 7 (Cont)

BACK PANEL INTERNAL WIRING (Cont)

VIDEO B



VIDEO C



VIDEO D

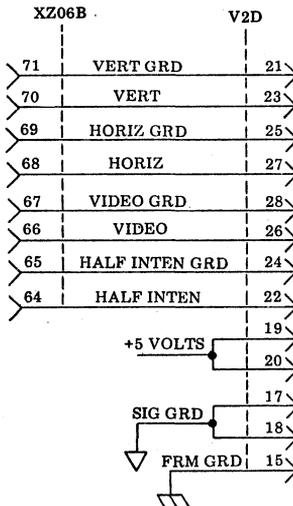


Fig. 7 (Cont)

## BACK PANEL INTERNAL WIRING (Cont)

IXL

XZ01B		XZ02B	XZ01B		XZ02B
1	LOAD	1	36	CY CTRL 1	36
2	OSC EN	2	37	CY CTRL *	37
3	MUX EN (L)	3	38	ACC CLK	38
4	R2	4	39	SEQ CTRL *	39
5	R3	5	40		40
6	R1	6	41		41
7	R0	7	42		42
8	DA *	8	43	M	43
9	BYTE	9	44		44
10	DA1	10	45		45
11	OUT ENABLE	11	46		46
12	DA2	12	47	Z	47
13	DA3	13	48	P	48
14	DA4	14	49	C	49
15	DA5	15	50		50
16	DA6	16	51		51
17	DA7	17	52	T	52
18		18	53		53
19		19	54	INTR	54
20	DA8	20	56		56
21		21	57	N	57
22		22	58	MPS *	58
23	WLB	23	59	MPS 1	59
24	DA9	24	60	MPS 2	60
25	DA10	25	61	MPS 3	61
26	DA11	26	62		62
27	DA12	27	63	MUX SEL 4	63
28	DA13	28	64		64
29	DA14	29	65	MUX SEL 3	65
30	DA15	30	66		66
31	STAT CTRL 3	31	67	MUX SEL 2	67
32	STAT CTRL 2	32	69	MUX SEL 1	69
33	STAT CTRL 1	33	70	RUN IN	70
34	STAT CTRL *	34	71	MUX SEL *	71
35	CNT EN	35			

Note 4: Two other circuits exist but are not used. One is XZ01B-55 to XZ02B-55. The other is XZ01B-68 to XZ02B-68.

See Note 4.

Fig. 7 (Cont)

BACK PANEL INTERNAL WIRING (Cont)

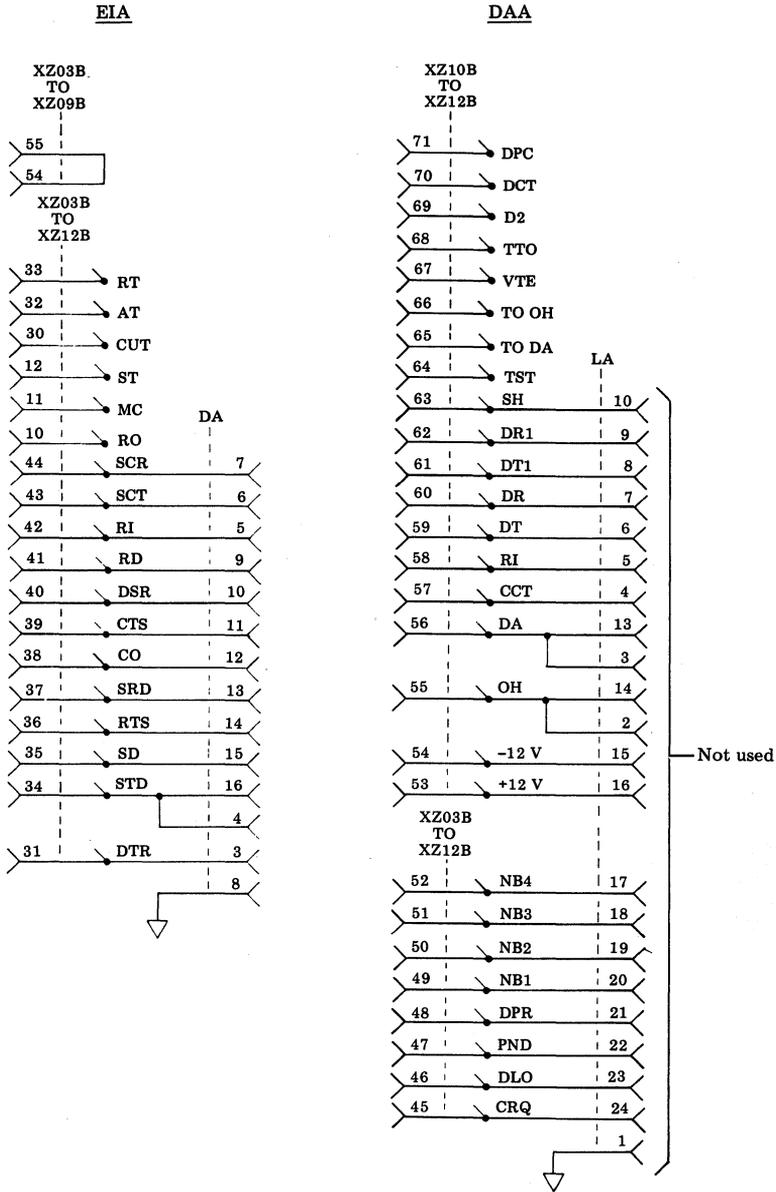
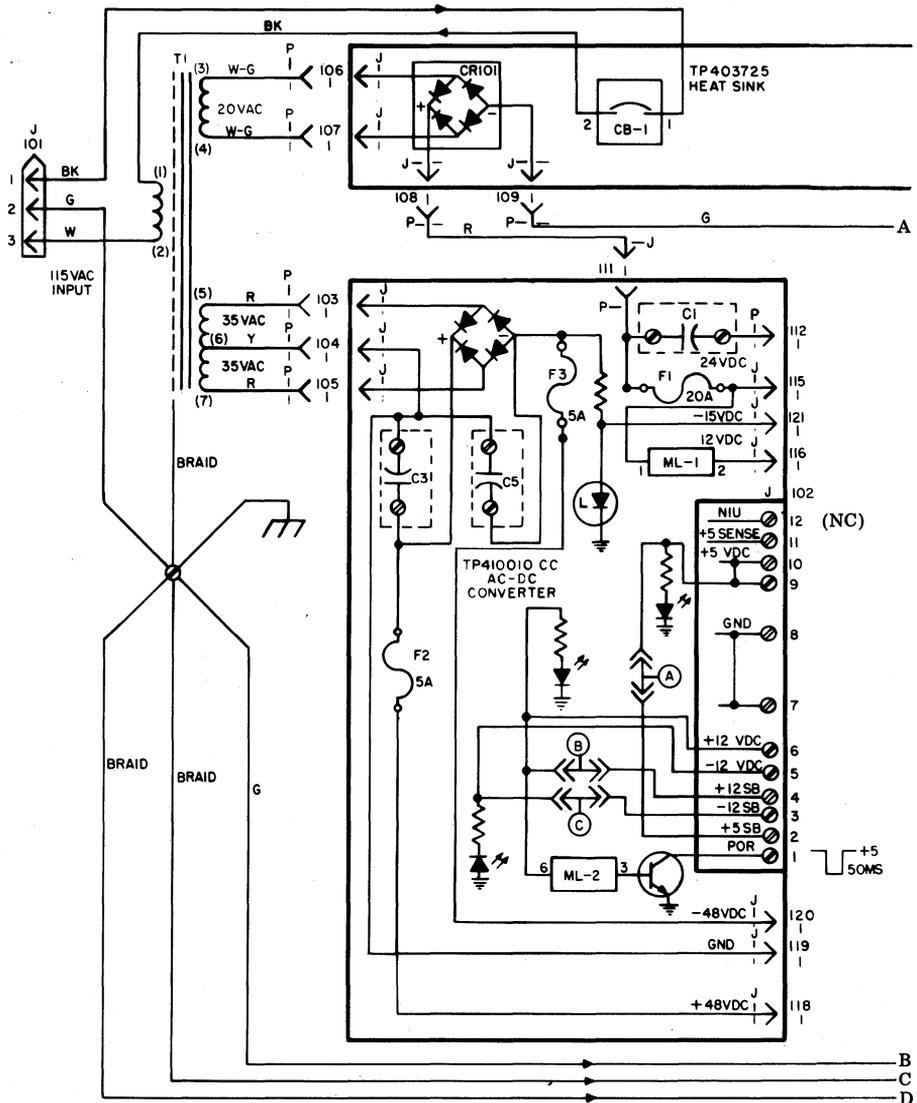


Fig. 7 (Cont)

40PSU102 POWER SUPPLY



Note 1: Straps A, B, and C must be left installed.

Note 2: ML-1 and ML-2 are components on 410010 circuit card.

Fig. 8

40PSU102 POWER SUPPLY (Cont)

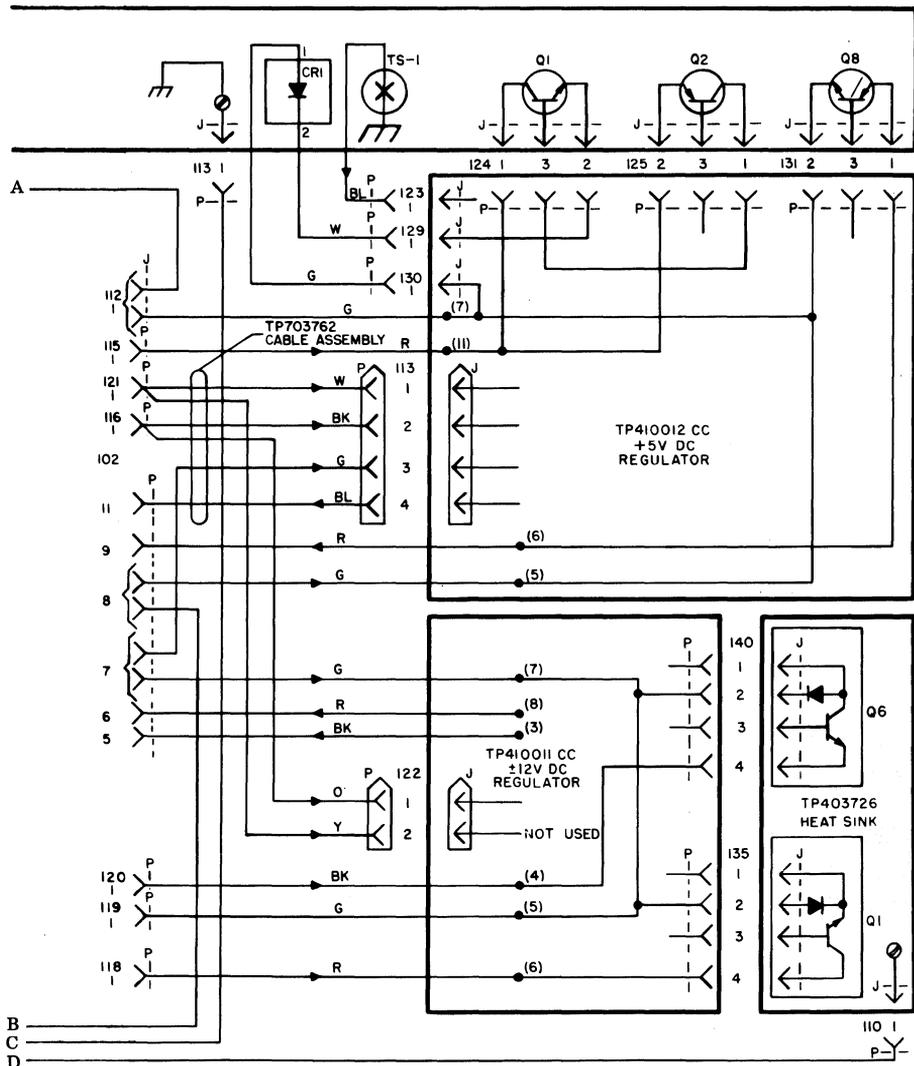


Fig. 8 (Cont)

OPCONS

A. 40K104/DAB (Early Design) Opcon

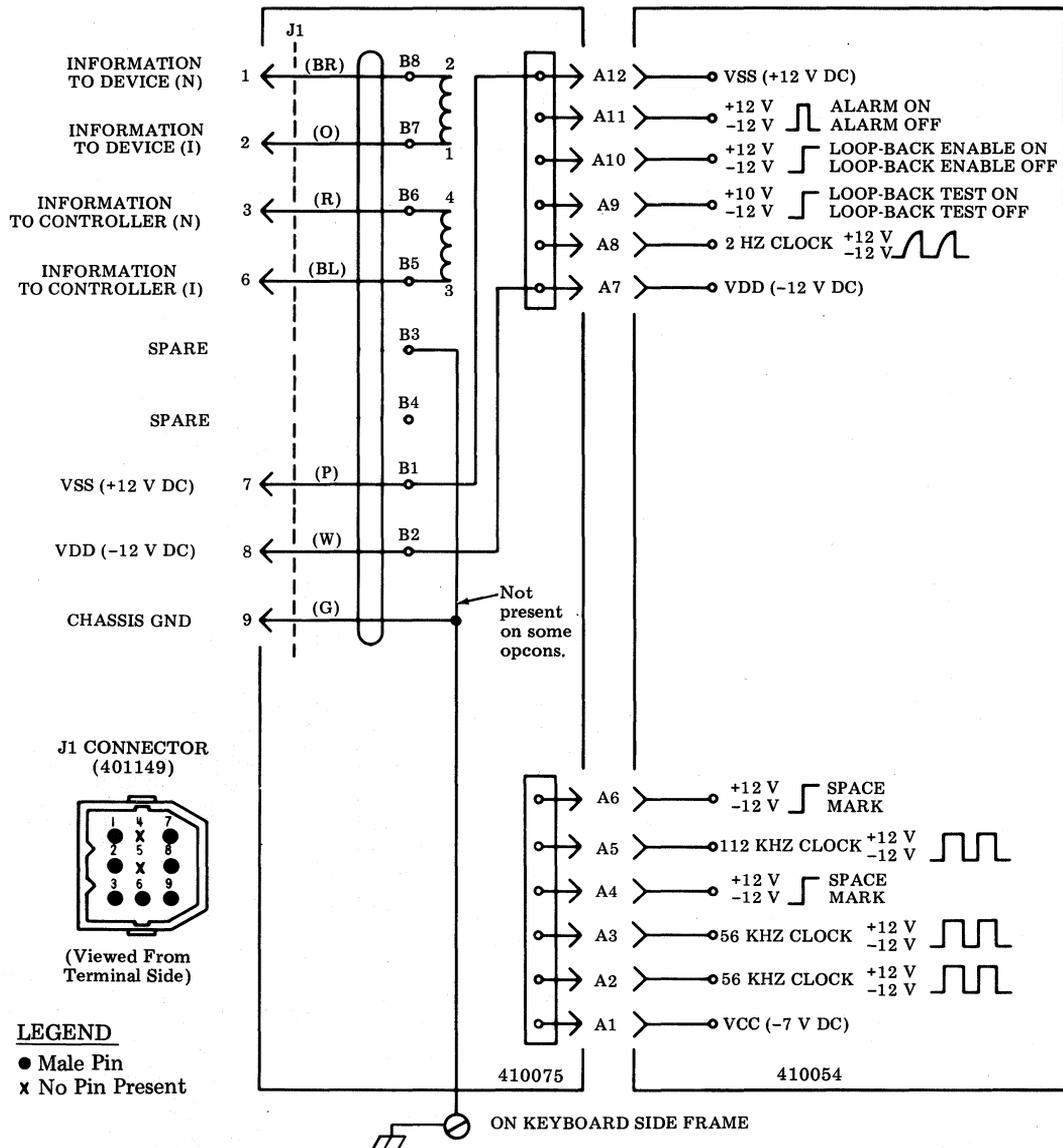


Fig. 9

B. 40K104/DAB (Late Design), 40K105/CAA, or 40K203/GAB Opcons

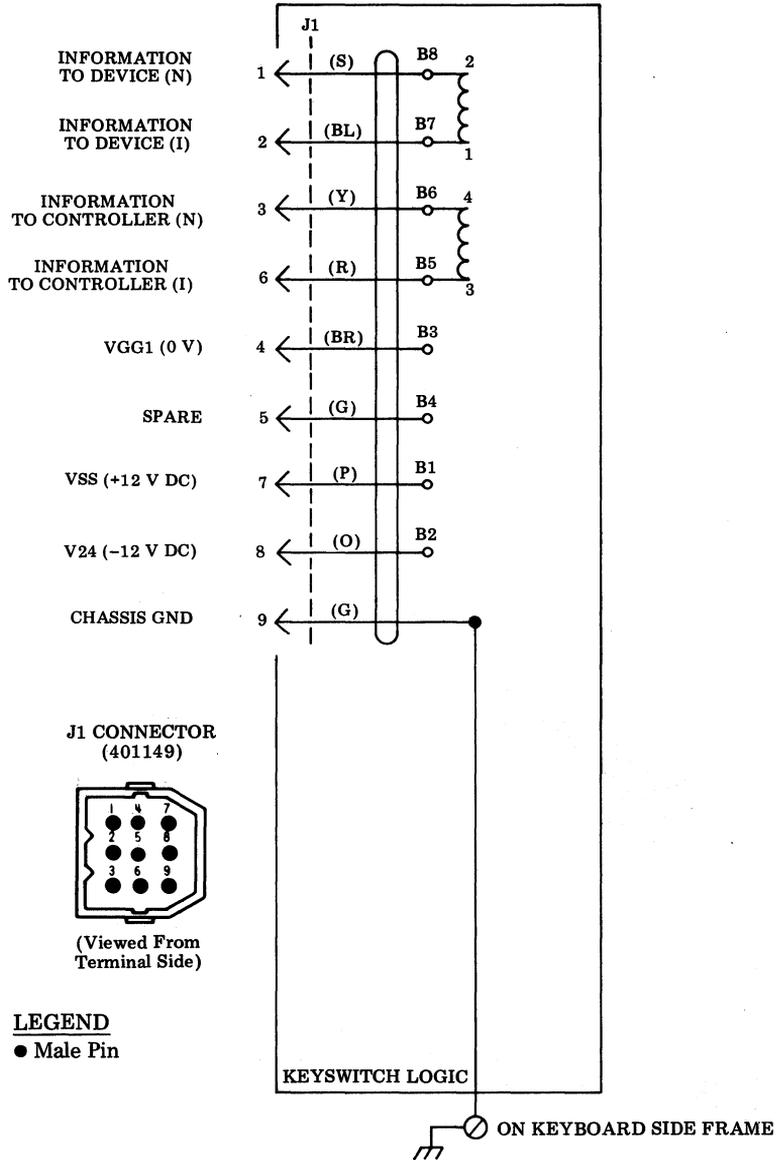


Fig. 10

CABLE ASSEMBLIES

A. Data Set Cable Assemblies – SCC, MCC

PART NUMBER	LENGTH
341896	5 Ft
408065	7 Ft
408066	12 Ft
408067	25 Ft
408068	50 Ft

These cables are shown on following page.

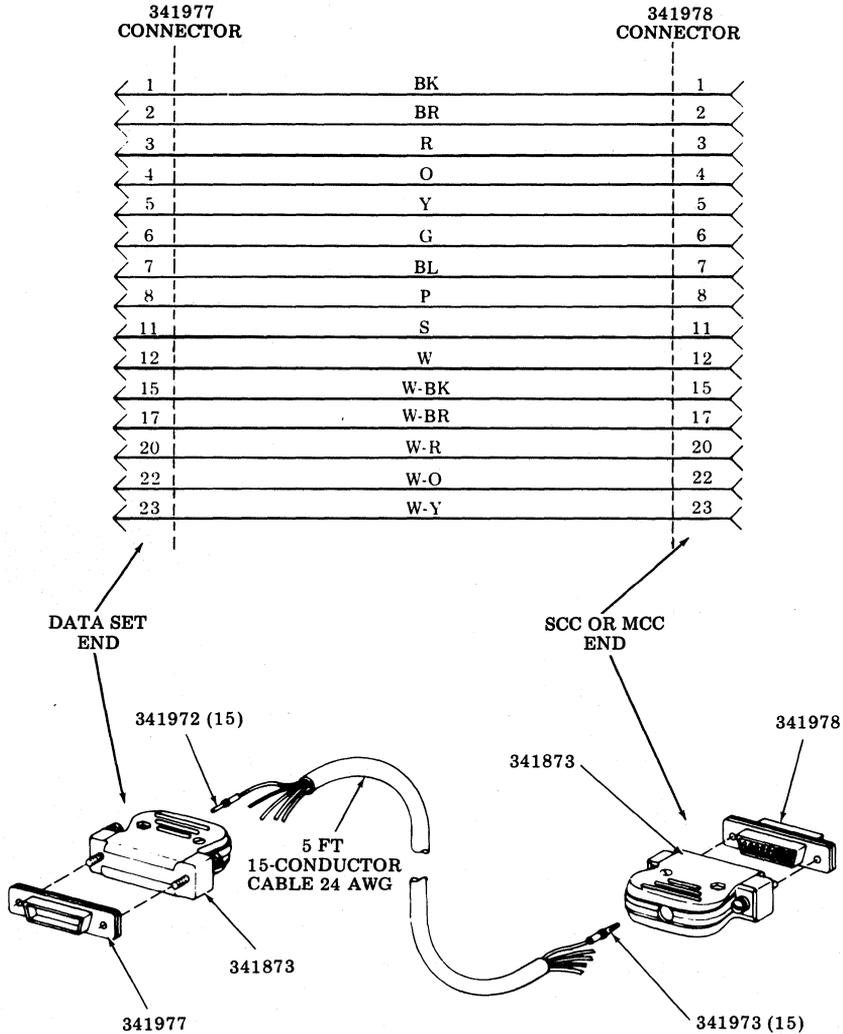


Fig. 11

A. Data Set Cable Assemblies — SCC, MCC (Cont)

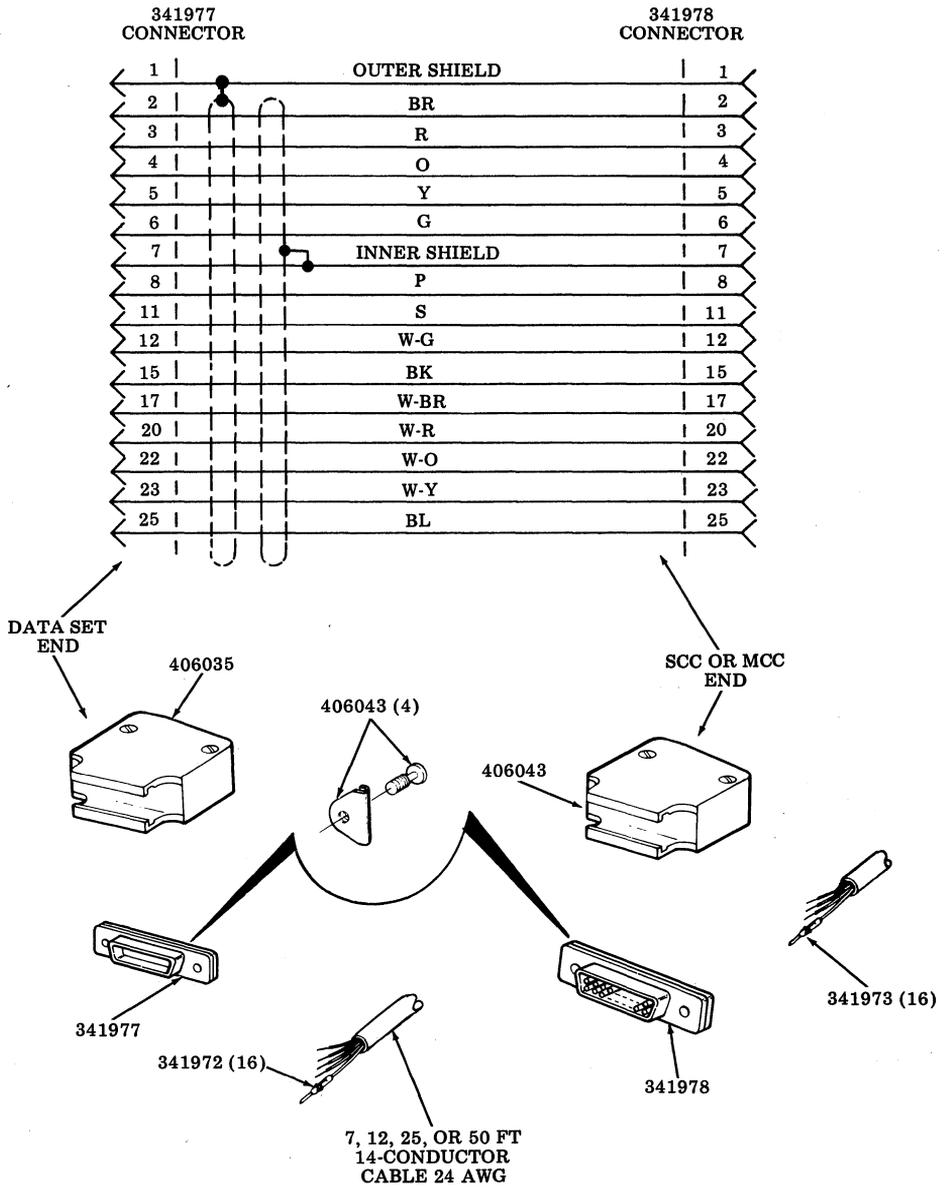
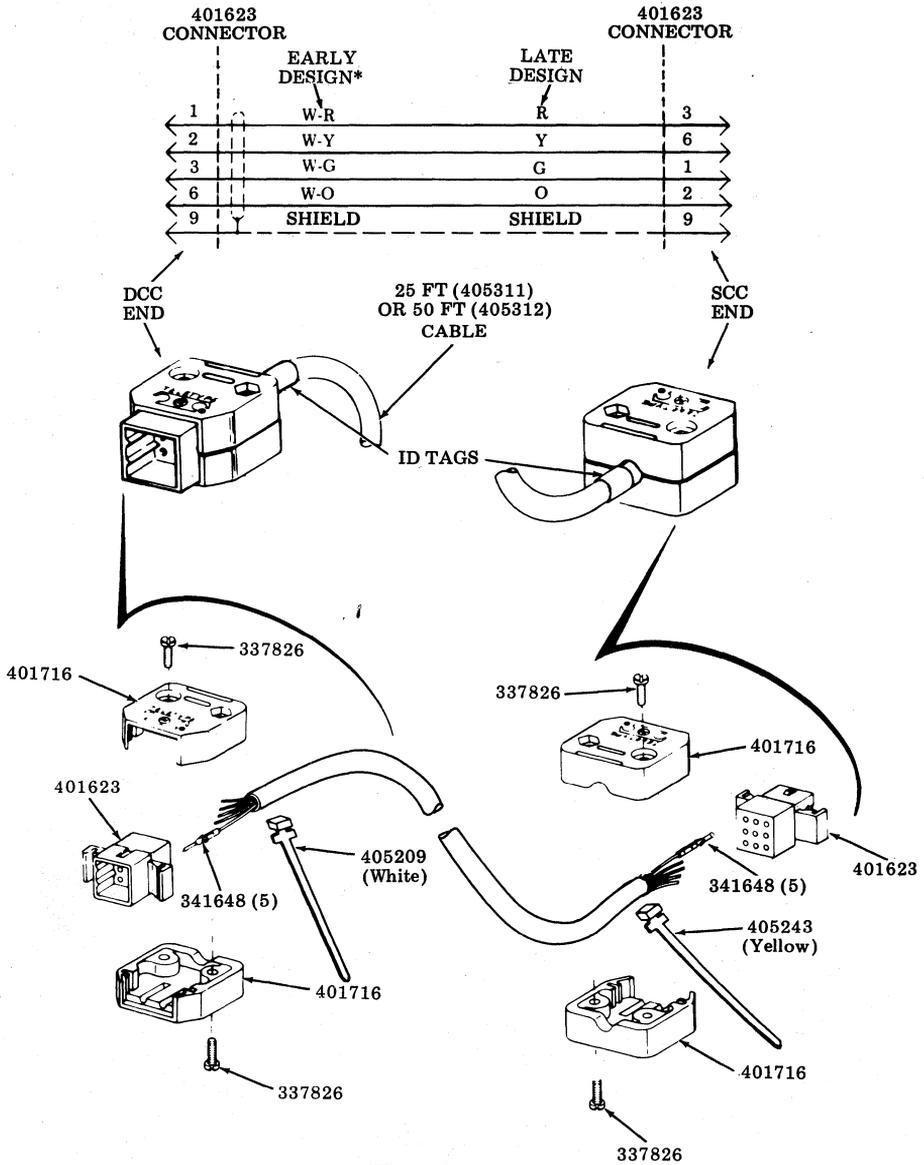


Fig. 11 (Cont)

B. 405311 and 405312 Controller/Controller Cable Assemblies — SCC, DCC



\*Early design cables contain two unused wires (W-BR and W-BK).

Fig. 12

C. 405237 and 405238 Controller/Controller Cable Assemblies — SCC, DCC

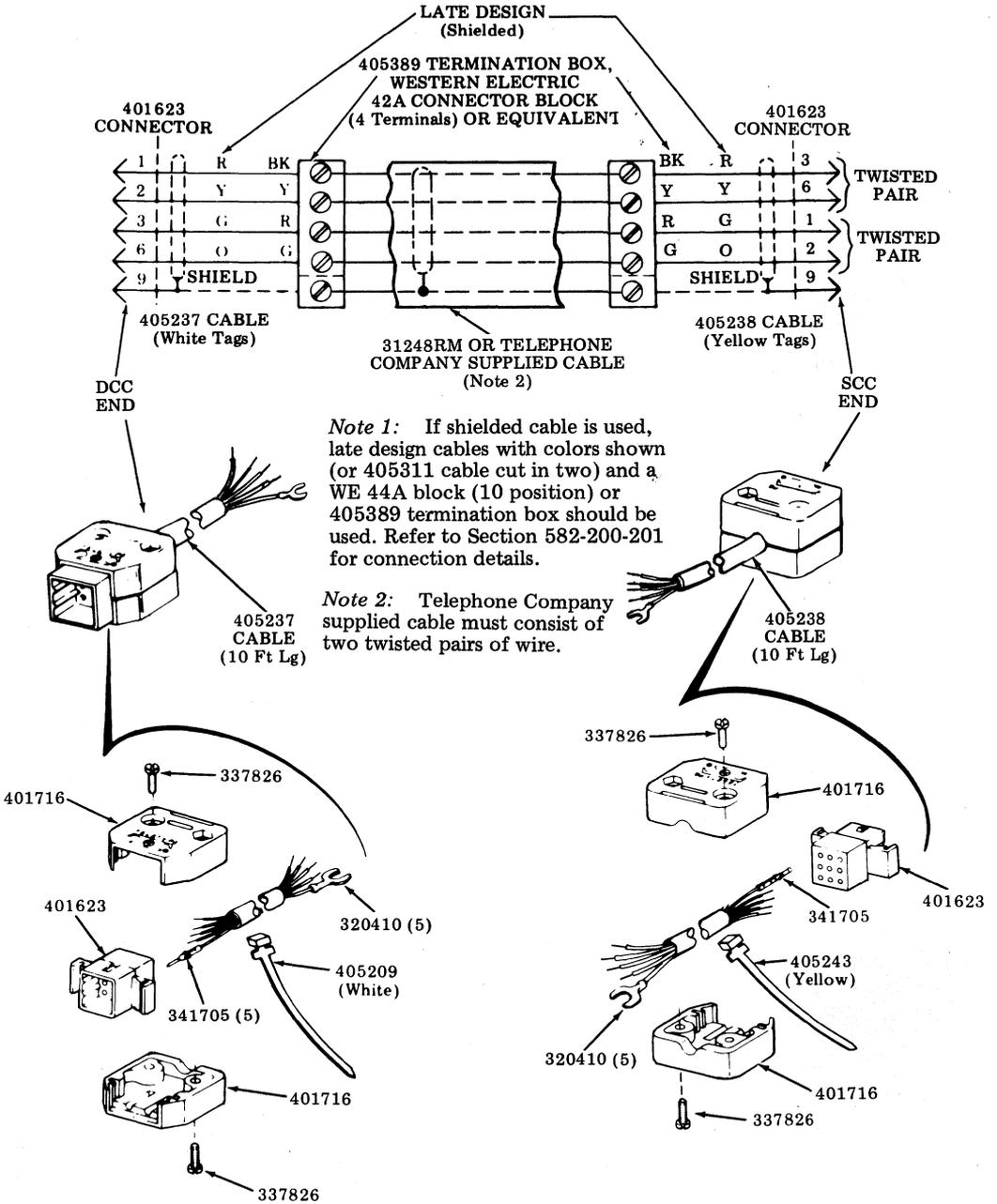


Fig. 13

D. Controller/Printer Cable Assemblies — DCC, MCC

PART NUMBER	LENGTH
405306	6 Ft
405308	25 Ft

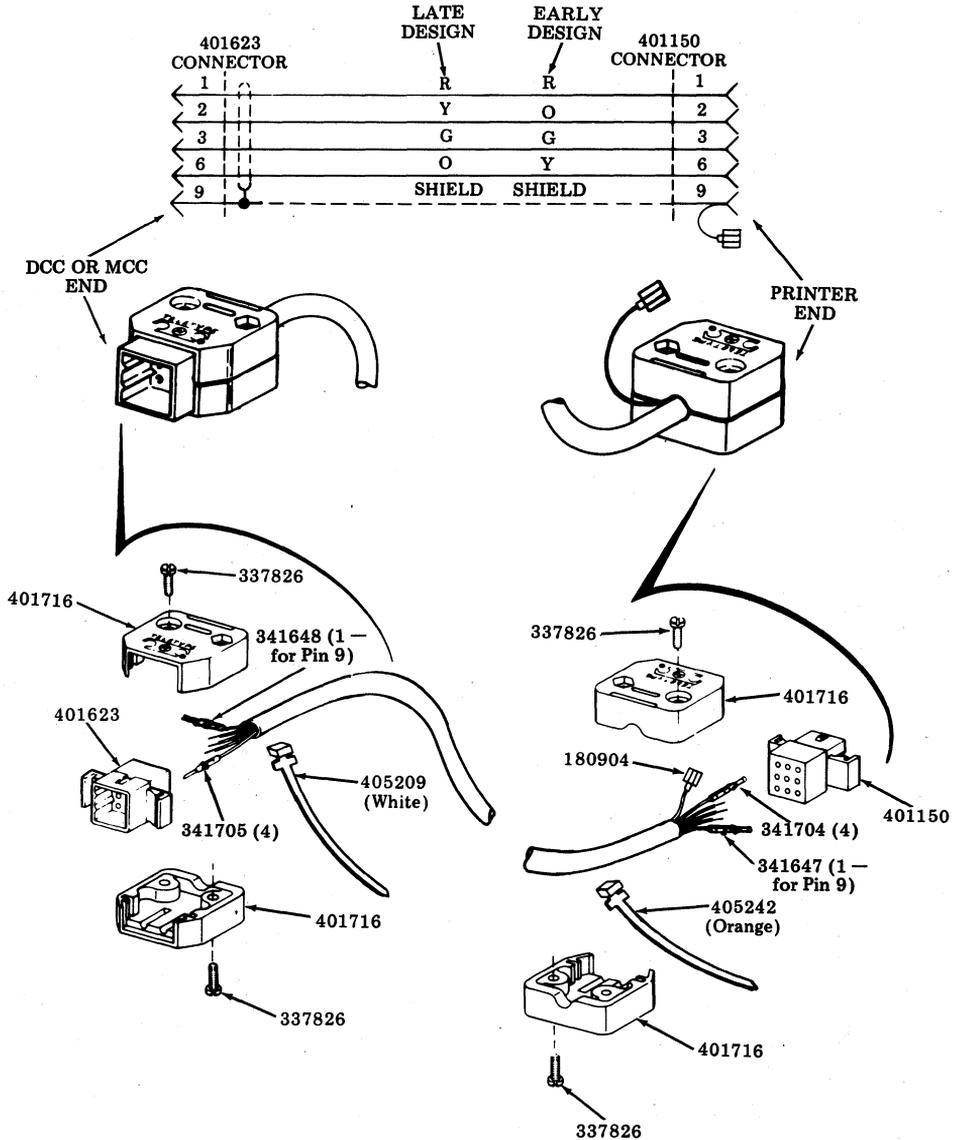


Fig. 14

E. 405237 and 405239 Controller/Printer Cable Assemblies — DCC, MCC

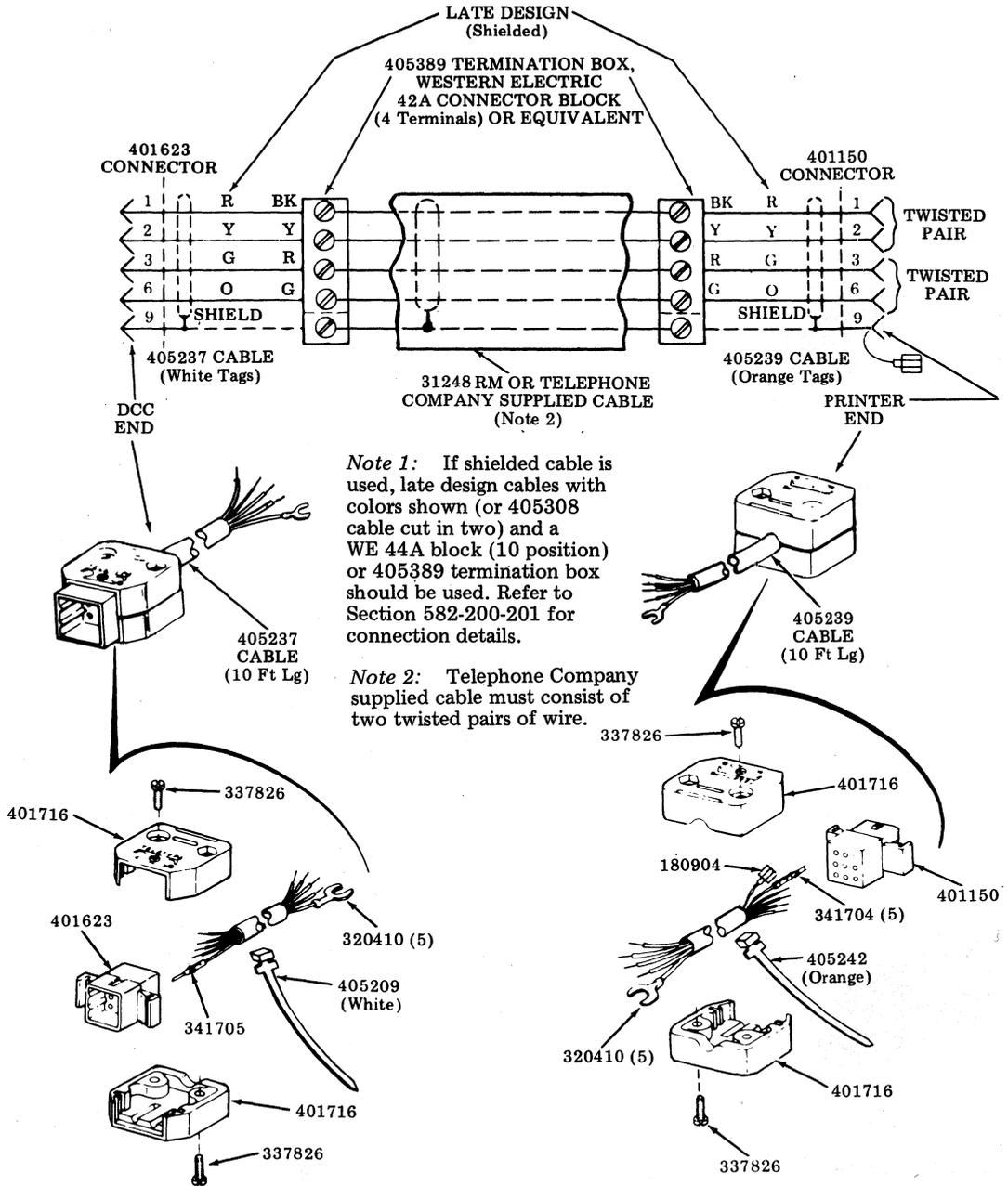
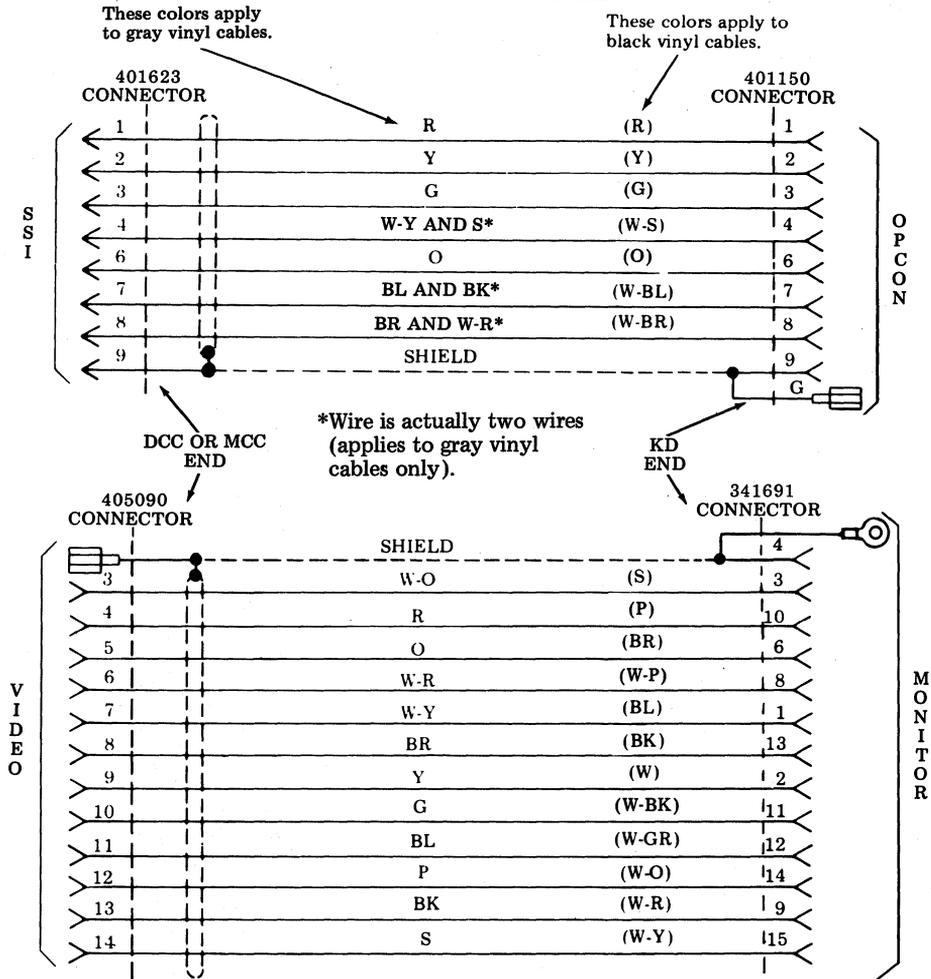


Fig. 15

F. Opcon/Monitor Cable Assemblies — DCC, MCC (Controller-KD)

PART NUMBER	LENGTH
405301	6 Ft
405302	12 Ft
405303	25 Ft
405304	50 Ft
405139	75 Ft
405140	100 Ft



Note 1: Gray vinyl cables (SSI side) have two spare wires (W-O and P). Refer to Section 582-200-210 for application of an opcon/monitor cable when a KDA is part of the station.

Note 2: See Page 33 for cable parts.

Fig. 16

F. Opcon/Monitor Cable Assemblies — DCC, MCC (Controller-KD) (Cont)

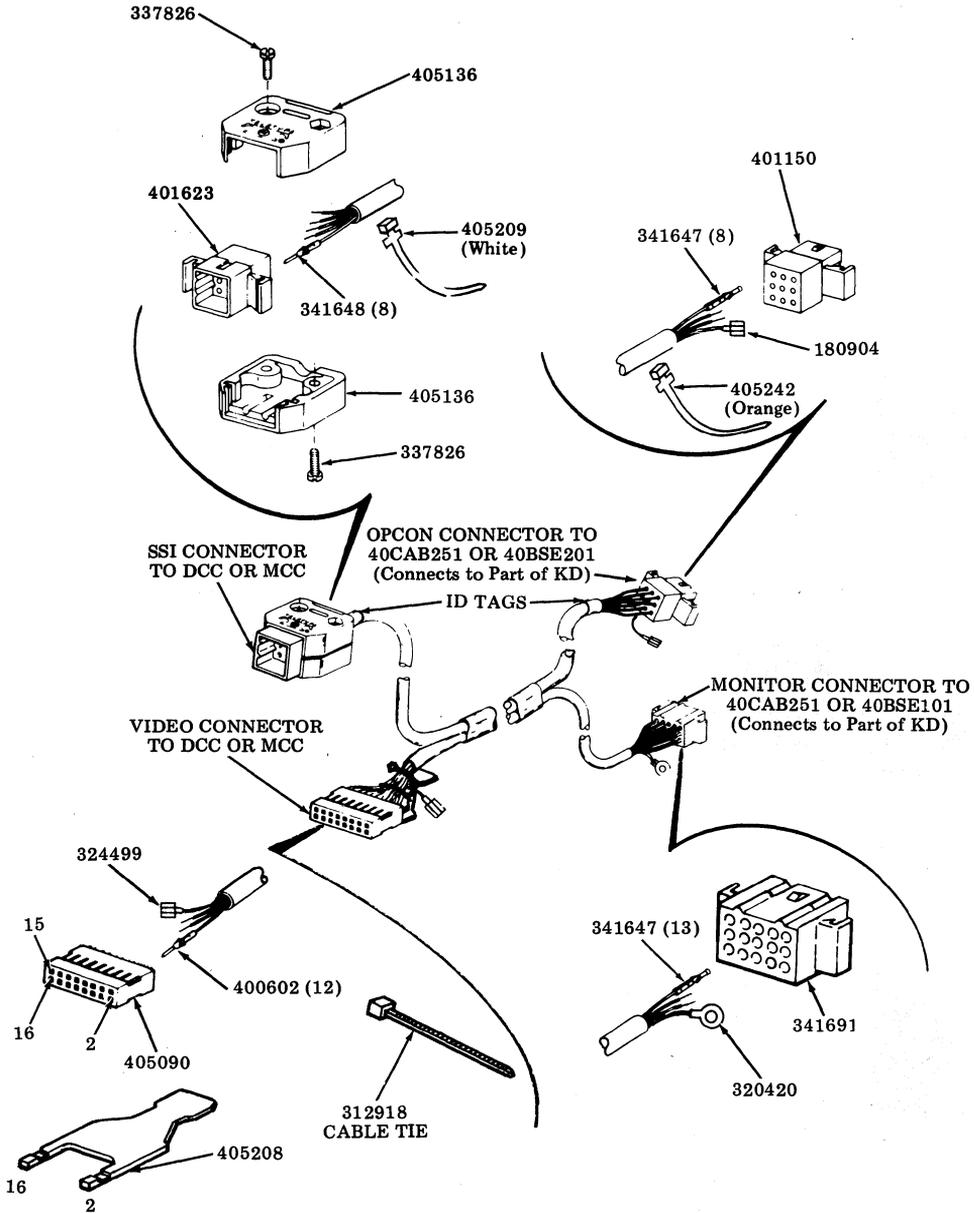
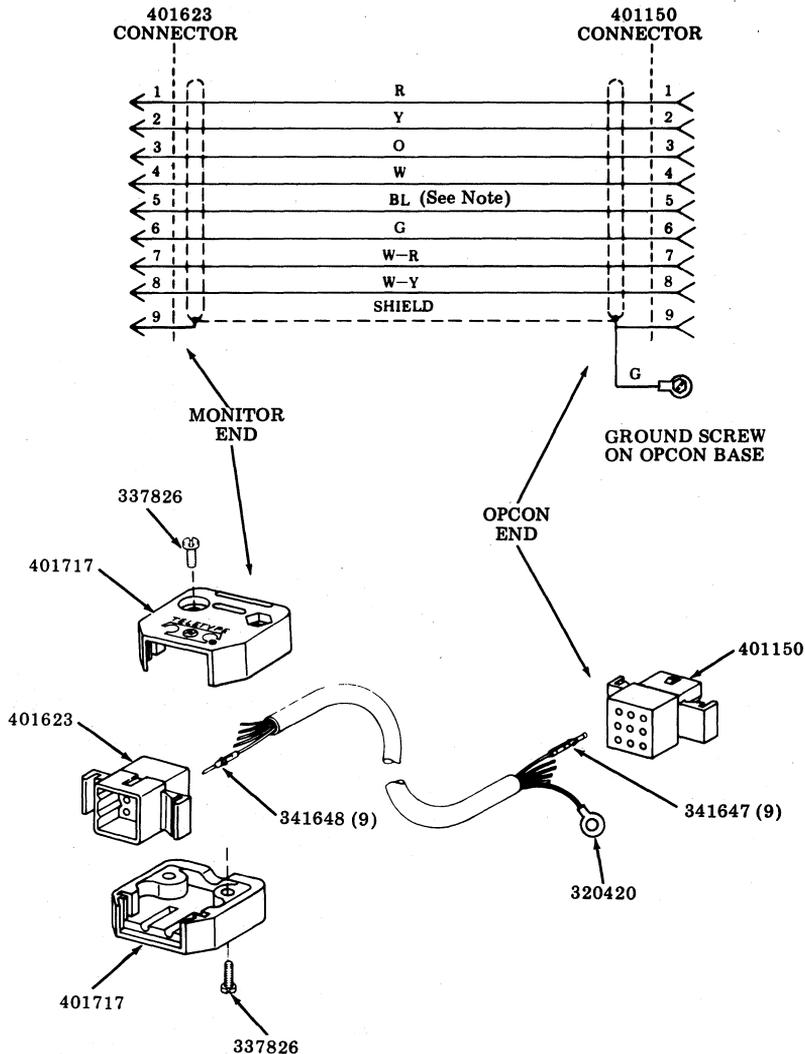


Fig. 16 (Cont)

G. 346333 Opcon Base Cable Assembly — DCC, MCC  
 (Application: Free-Standing KD)



Note: Late design cables may not have unused blue lead.

Fig. 17

H. 40BSE101 Monitor Base — DCC, MCC  
 (Application: Free-Standing KD)

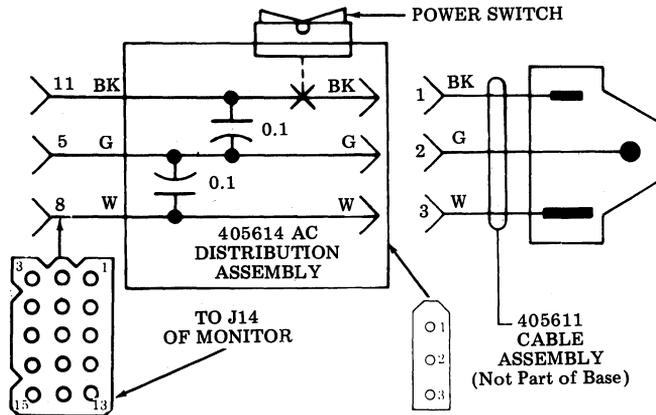


Fig. 18