

SYNCHRONOUS "DATASPEED\*" 40/4  
MAXI-CLUSTER AND MINI-CLUSTER STATION ARRANGEMENTS  
WIRING DIAGRAMS

CONTENTS	PAGE	CONTENTS	PAGE
1. GENERAL .....	1	B. 405311 and 405312 Controller/ Controller Cable Assemblies — SCC, DCC .....	28
2. WIRING DIAGRAMS .....	3	C. 405237 and 405238 Controller/ Controller Cable Assemblies — SCC, DCC .....	29
MAXI-CLUSTER (SCC/DCC) ARRANGEMENTS .....	3	D. Controller/Printer Cable Assemblies — DCC, MCC .....	30
MINI-CLUSTER (MCC) ARRANGEMENTS .....	4	E. 405237 and 405239 Controller/ Printer Cable Assemblies — DCC, MCC .....	31
410200 BACK PANEL (Early Design) — PHYSICAL LAYOUT .....	5	F. Opcon/Monitor Cable Assemblies — DCC, MCC (Controller-KD) .....	32
410201 BACK PANEL (Late Design) — PHYSICAL LAYOUT .....	6	G. 346333 Opcon Base Cable Assembly — DCC, MCC .....	34
405150 INTERCONNECTION MODULE — PHYSICAL LAYOUT .....	7	H. 40BSE101 Monitor Base — DCC, MCC .....	35
BACK PANEL AND INTERCON- NECTION MODULE WIRING .....	8	1. GENERAL	
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	(a) Monitor, see Section 582-213-400.	
OPCONS .....	24	(b) Monitor Support Cabinet, see Section 582-212-400.	
A. 40K104/DAB (Early Design) Opcon .....	24	(c) Printer Cabinet, see Section 582-210-400.	
B. 40K104/DAB (Late Design), 40K105/CAA, or 40K203/GAB Opcons .....	25	(d) Printer, see Section 582-210-400.	
CABLE ASSEMBLIES .....	26	(e) 40KDA101 Keyboard Display Amplifier, see Section 582-200-212.	
A. Data Set Cable Assemblies — SCC, MCC .....	26	(f) Keyboard Disable Lock Feature for Attached KD, see Section 582-211-210.	

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SECTION 582-200-401

(g) Keyboard Disable Lock Feature for Free-Standing KD, see Specification 50942S.

1.02 This section is reissued to provide coverage for the late design 346333 opcon base cable assembly (free-standing KD). 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 parts or 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.

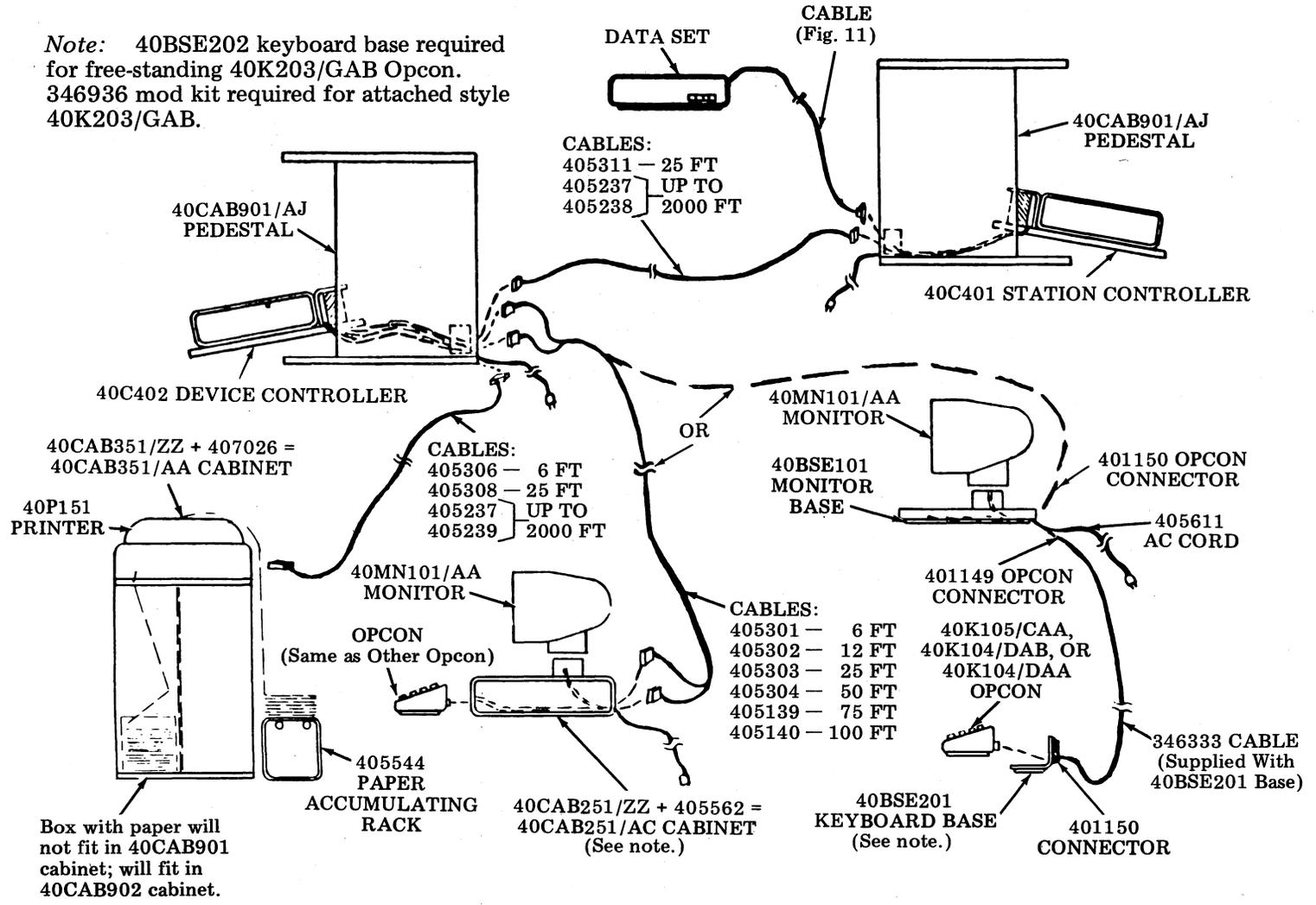


Fig. 1

Box with paper will not fit in 40CAB901 cabinet; will fit in 40CAB902 cabinet.

MINI-CLUSTER (MCC) ARRANGEMENTS

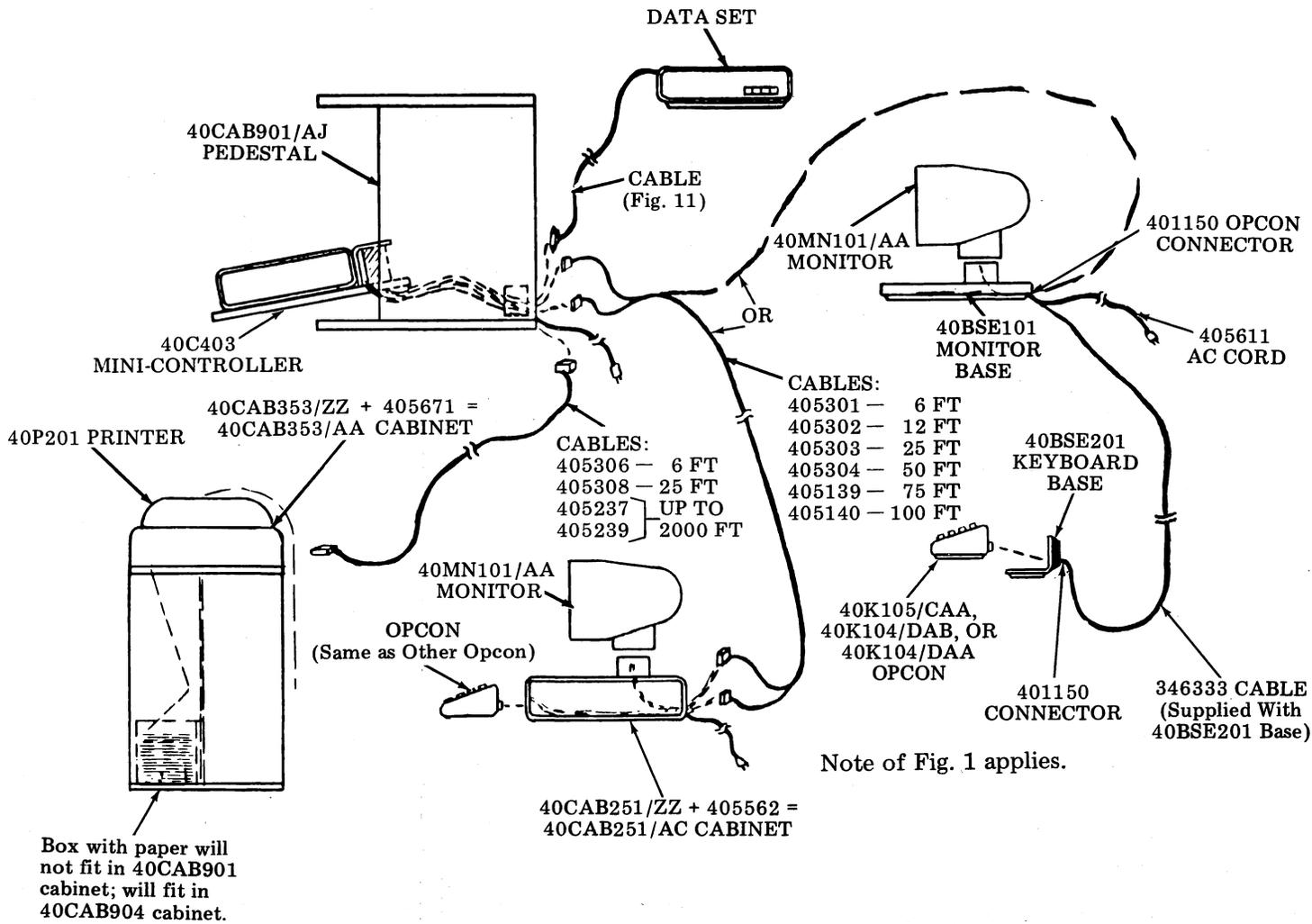


Fig. 2

410200 BACK PANEL (Early Design) — PHYSICAL LAYOUT

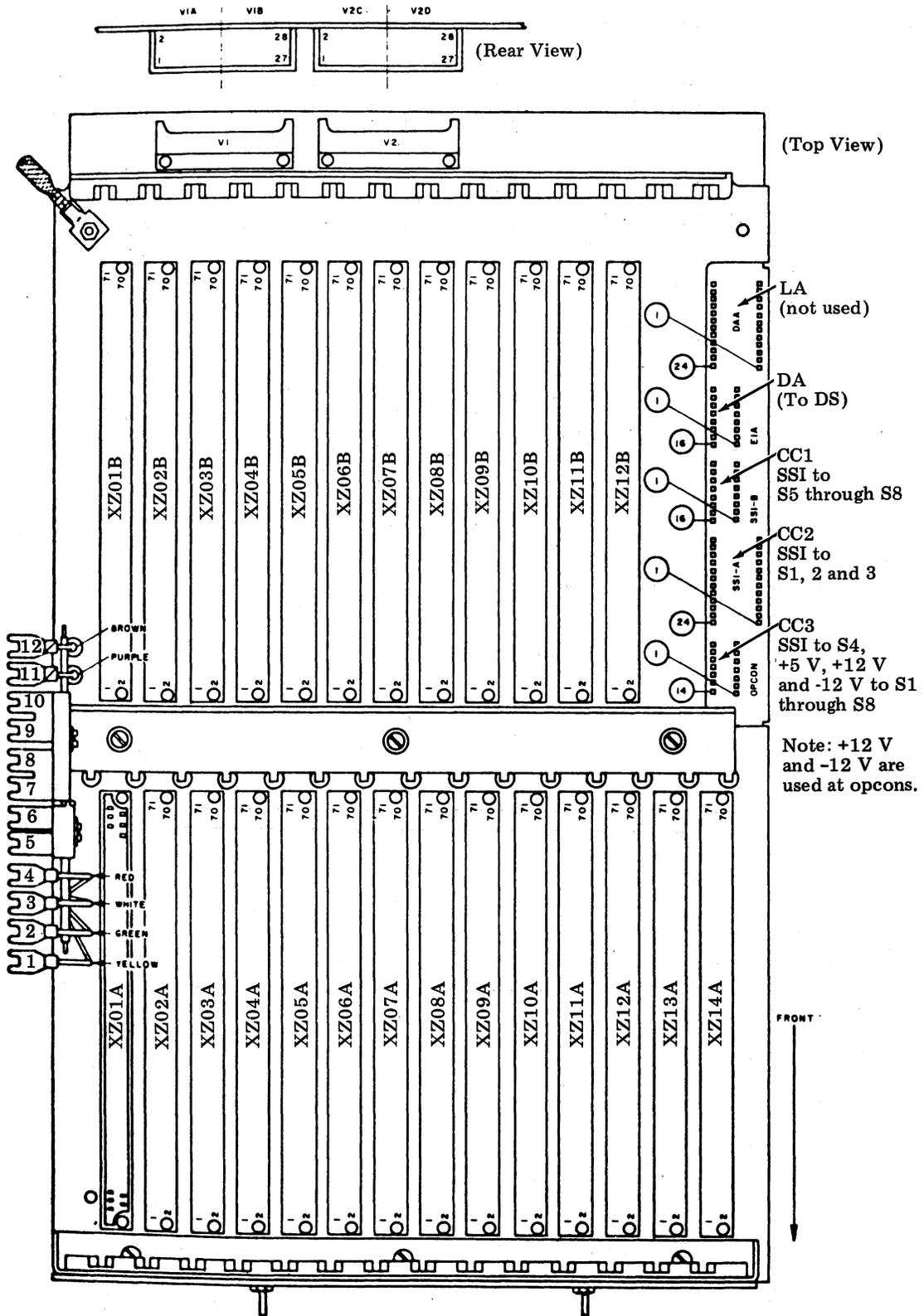


Fig. 3

410201 BACK PANEL (Late Design) — PHYSICAL LAYOUT

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

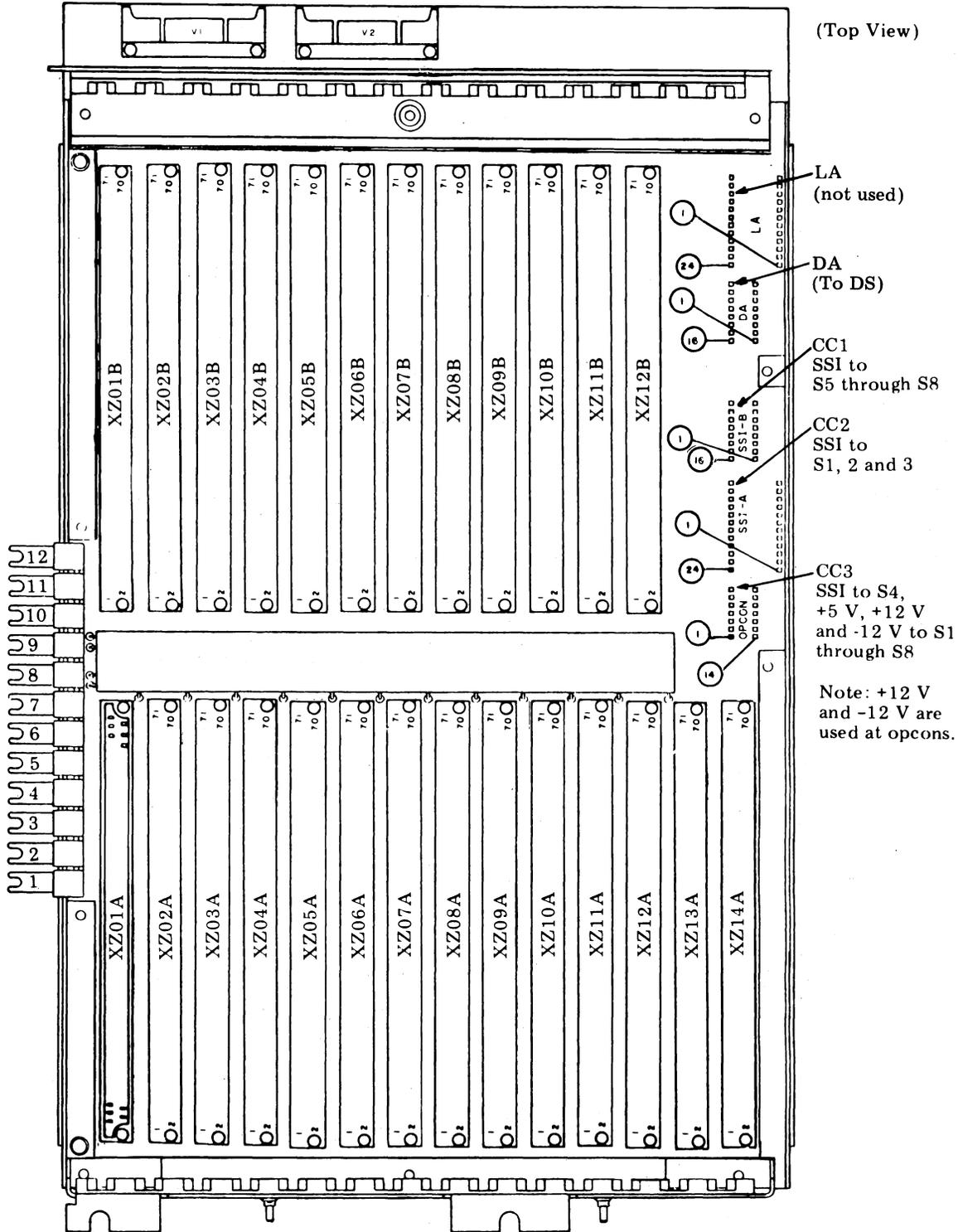


Fig. 4

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.

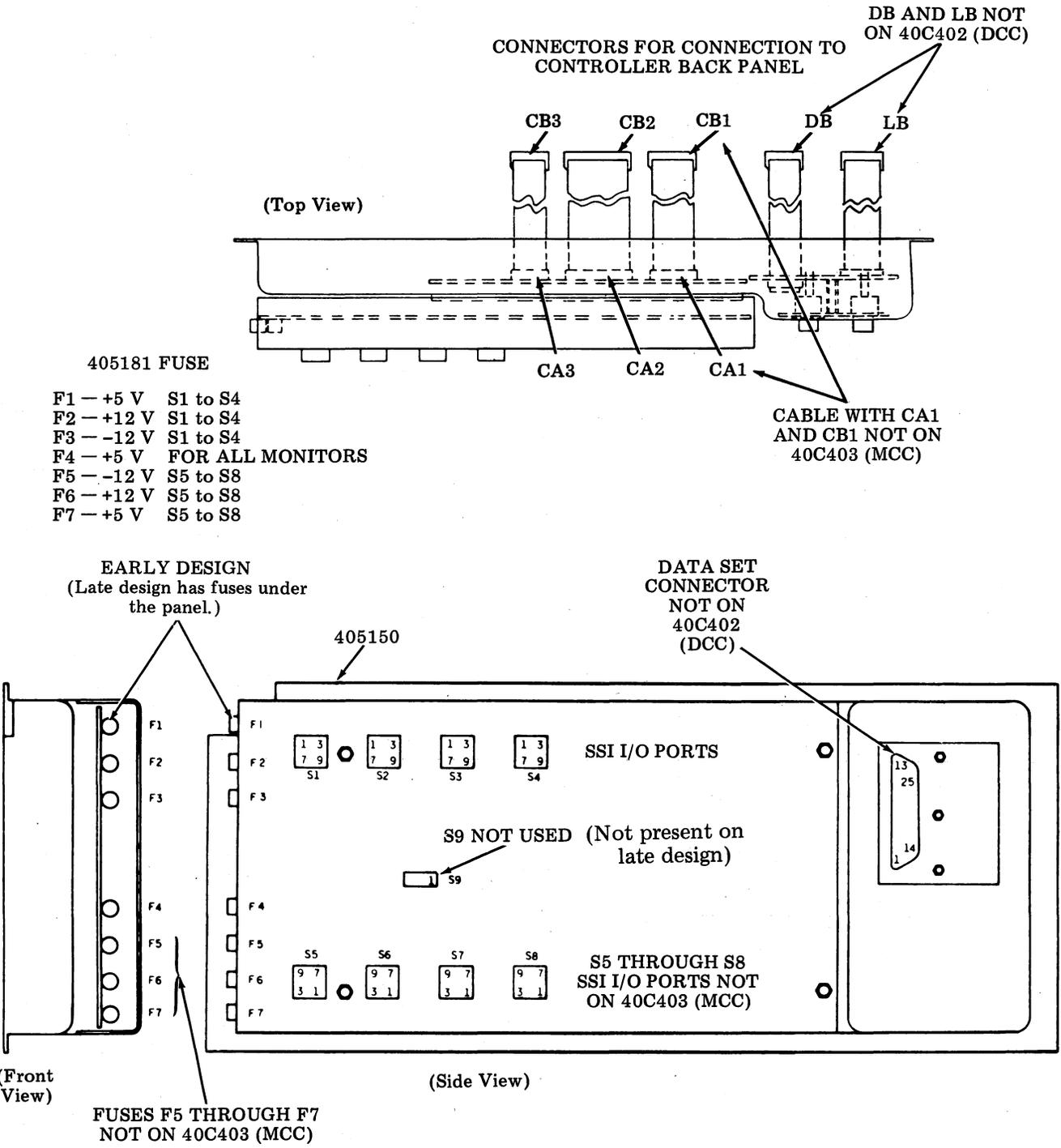


Fig. 5

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

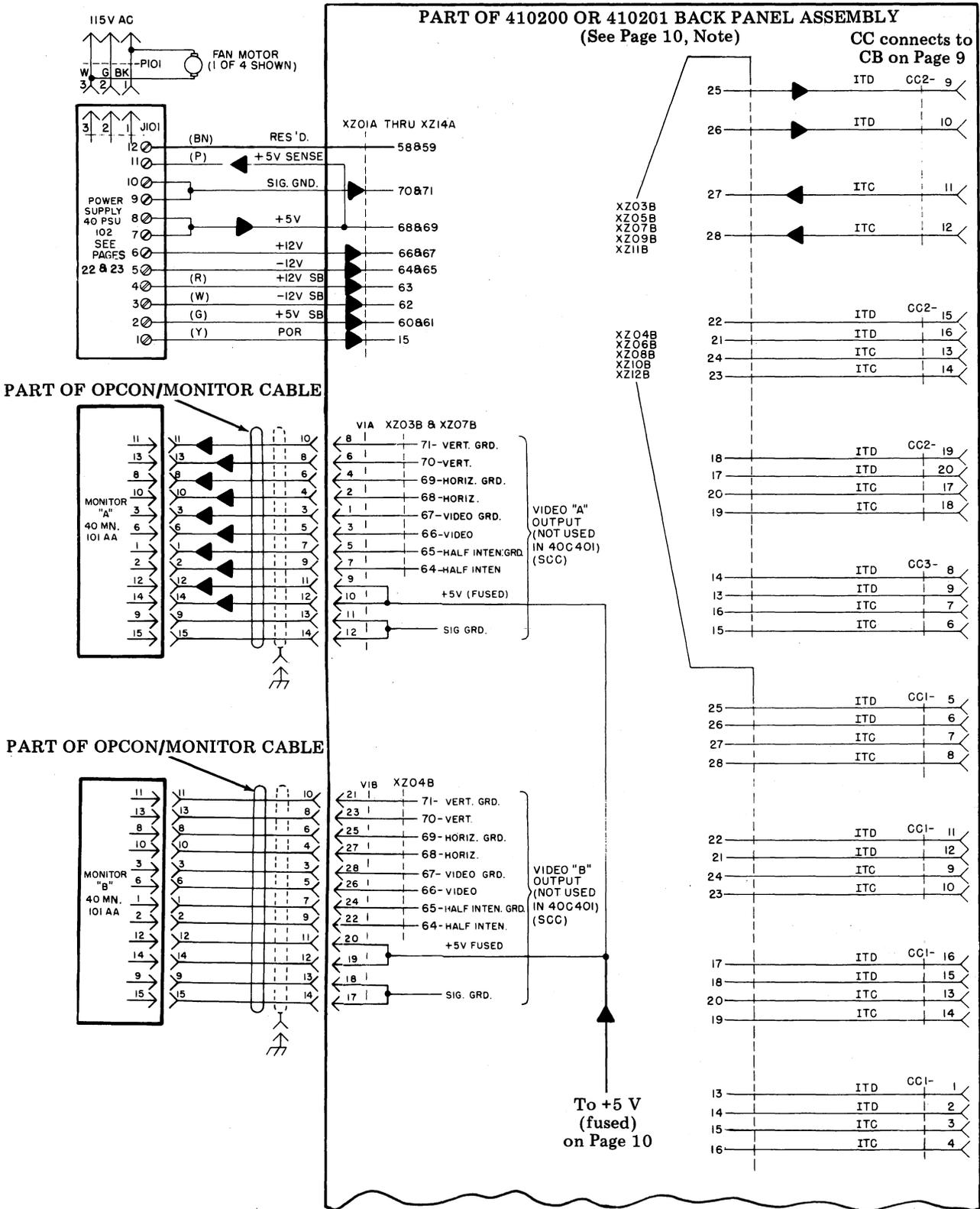


Fig. 6

(Back panel continued on Page 10)

BACK PANEL AND INTERCONNECTION MODULE WIRING (Cont)

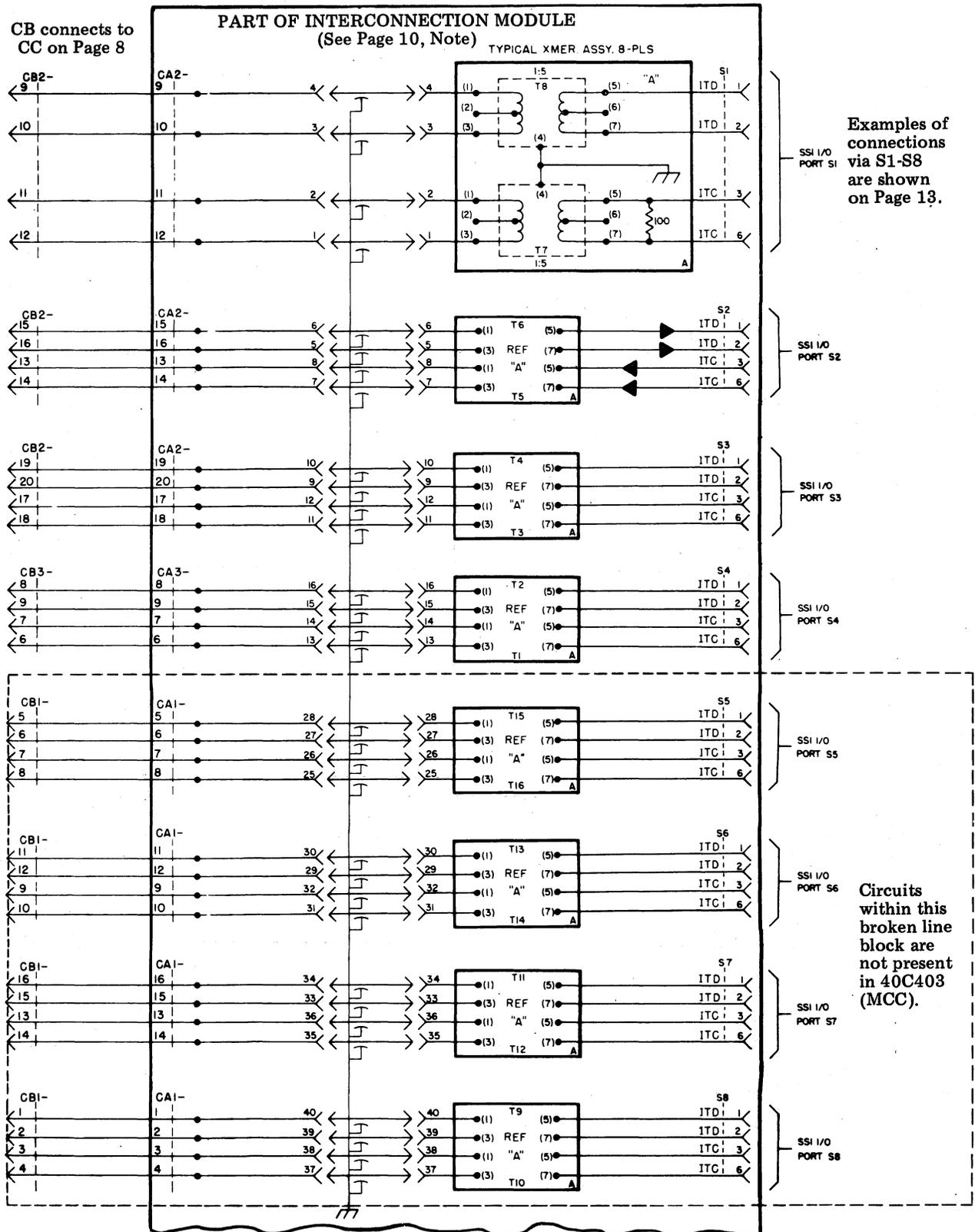
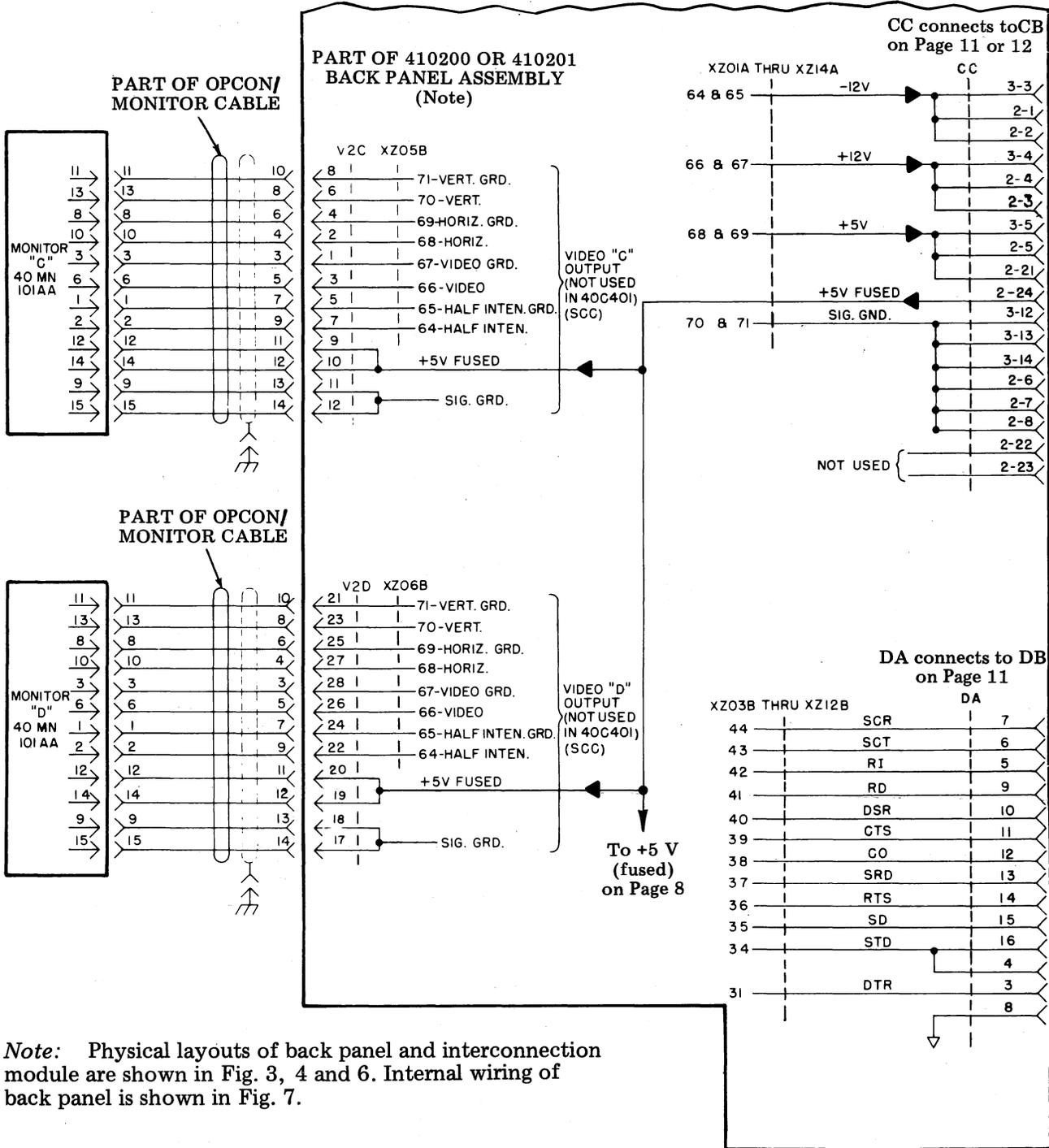


Fig. 6 (Cont)

(Interconnection module continued on Page 11)

BACK PANEL AND INTERCONNECTION MODULE WIRING (Cont)

(Back panel continued from Page 8)



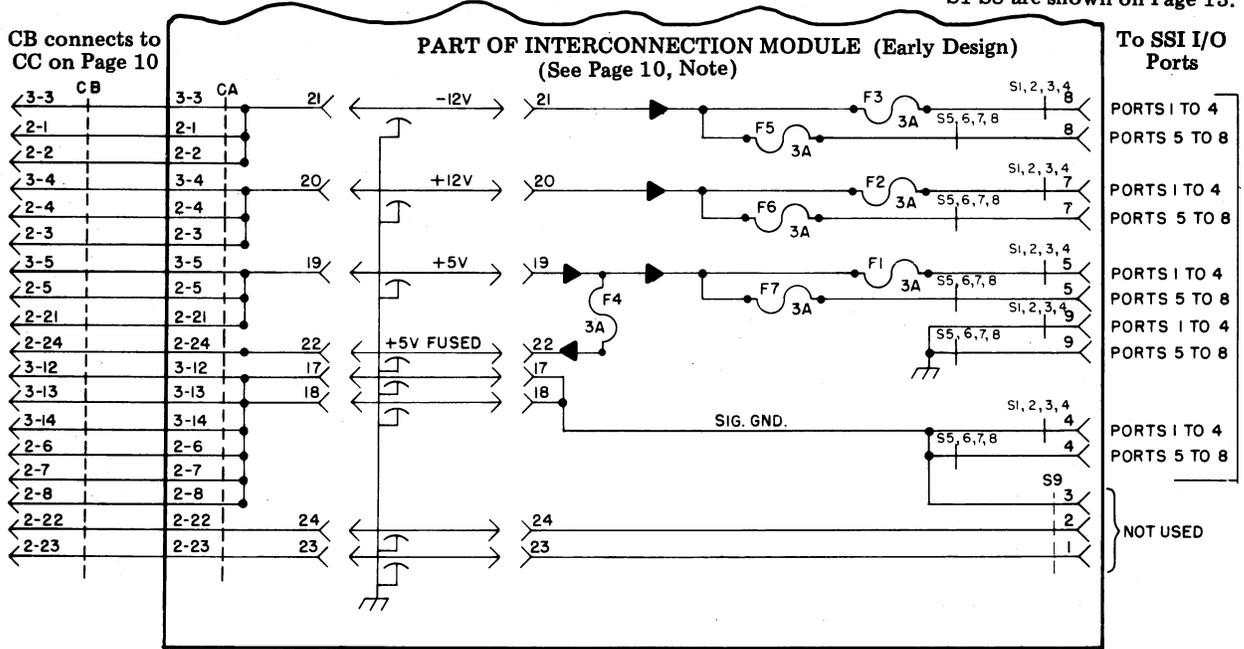
Note: Physical layouts of back panel and interconnection module are shown in Fig. 3, 4 and 6. Internal wiring of back panel is shown in Fig. 7.

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.

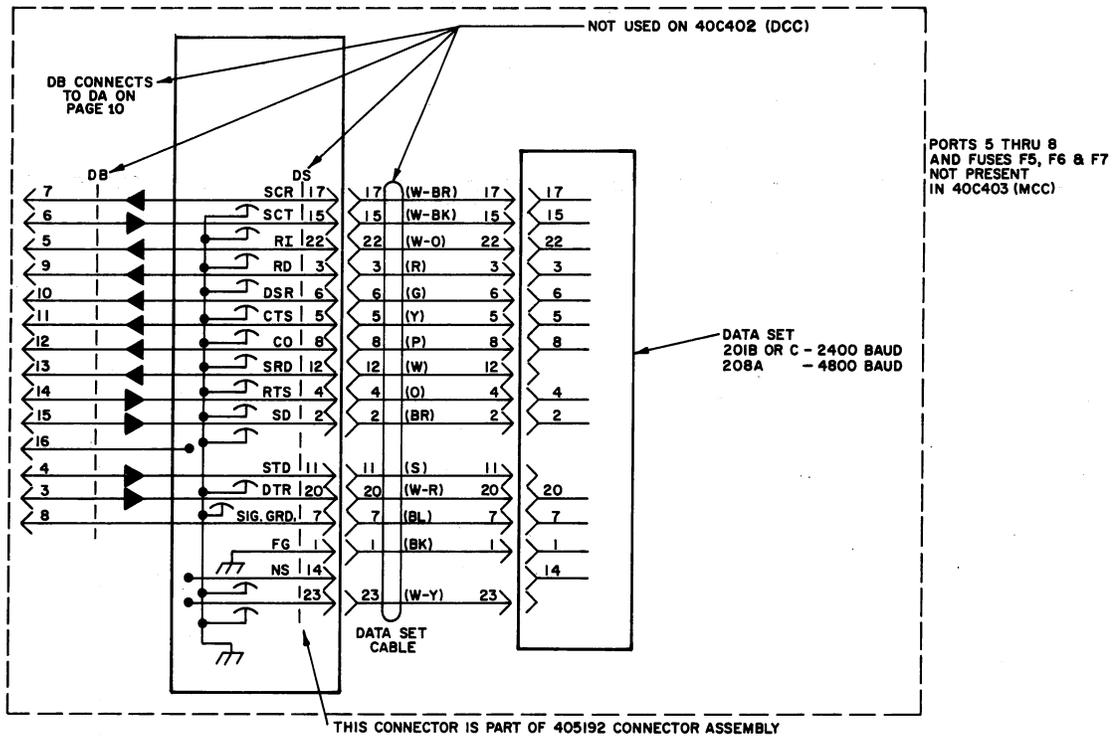


Fig. 6 (Cont)

BACK PANEL AND INTERCONNECTION MODULE WIRING (Cont)

(Interconnection module continued from Page 9)

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

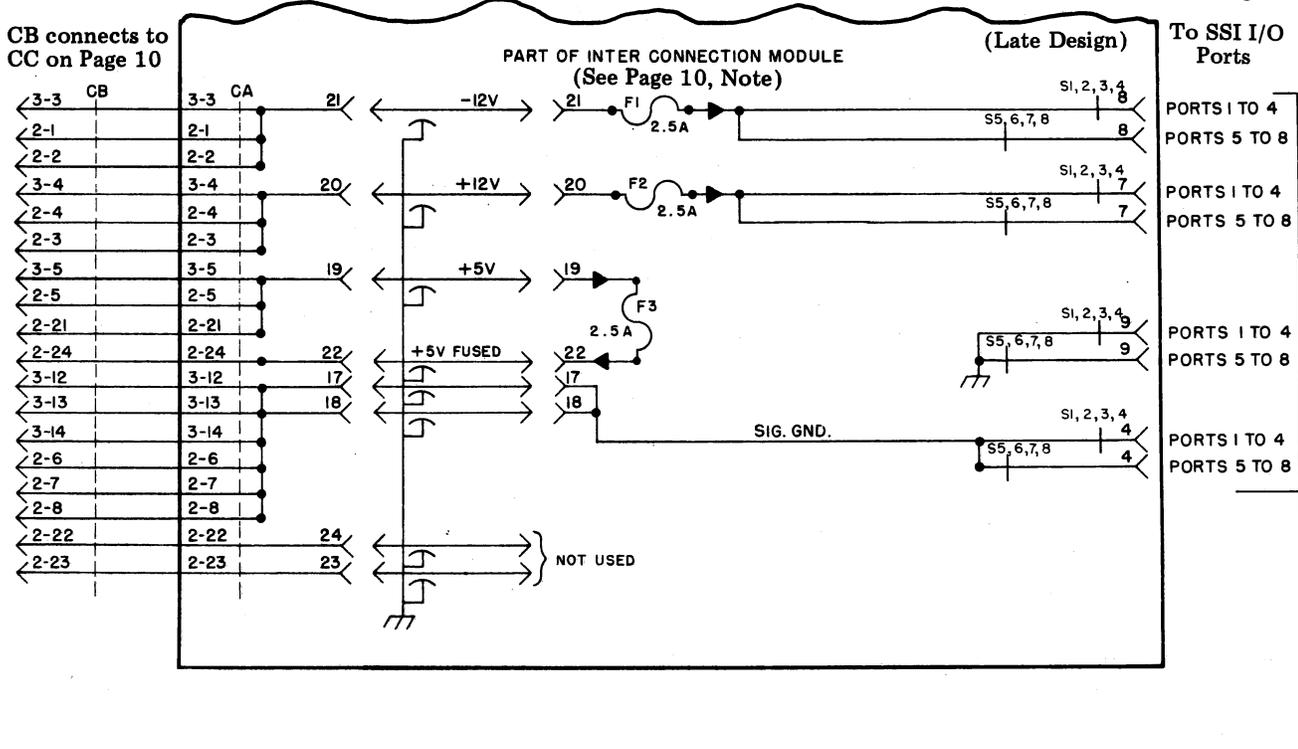


Fig. 6 (Cont)

Page 11 shows the early design interconnection module circuits.

BACK PANEL AND INTERCONNECTION MODULE WIRING (Cont)

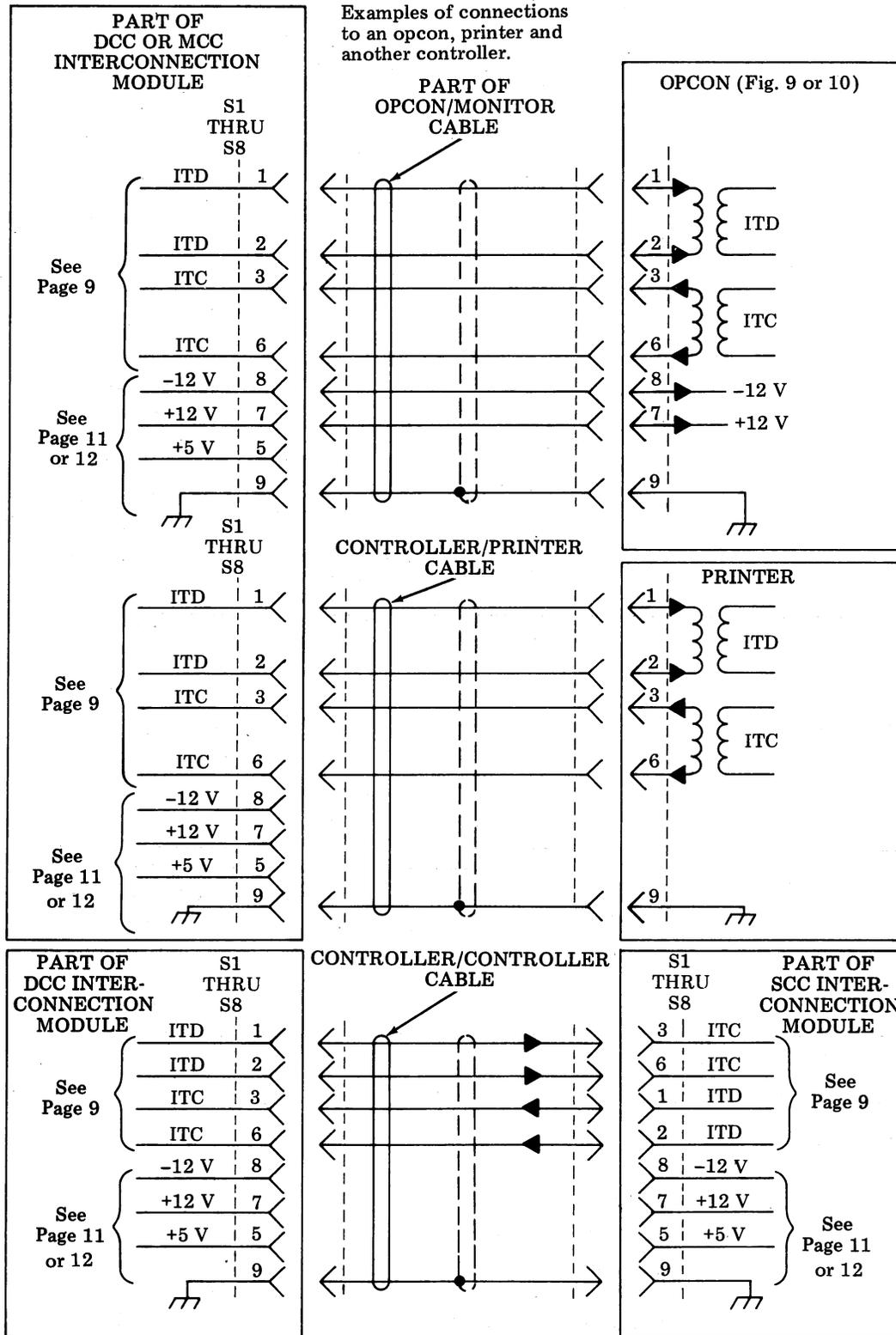
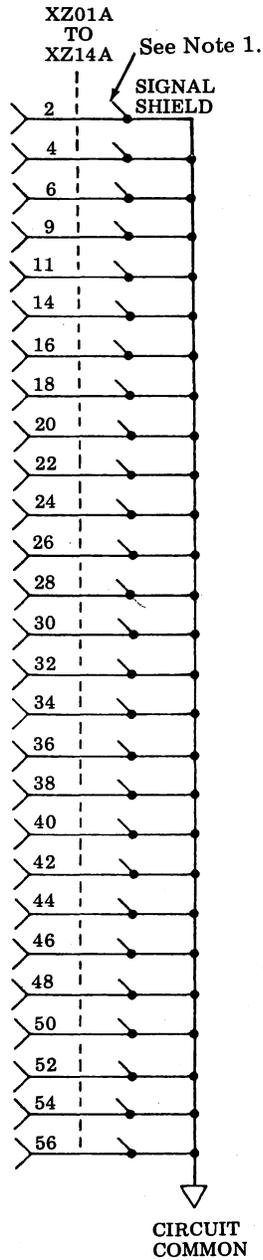


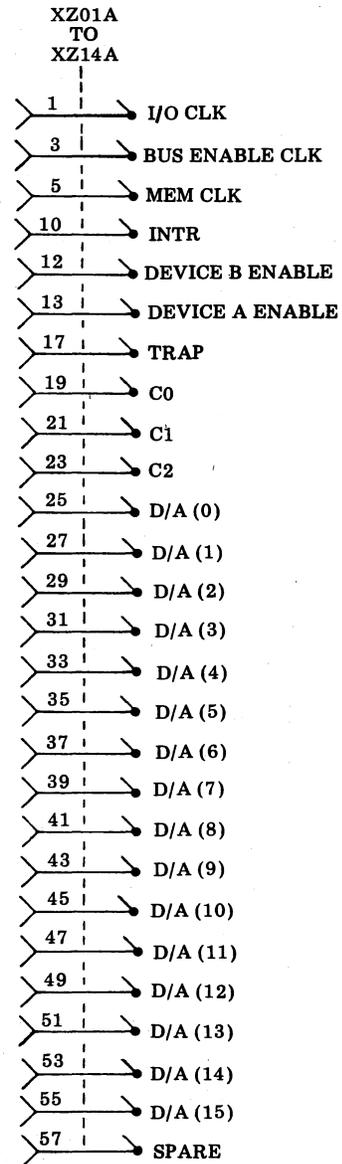
Fig. 6 (Cont)

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

**COMMON SHIELDING**



**COMMON BUSING**



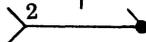
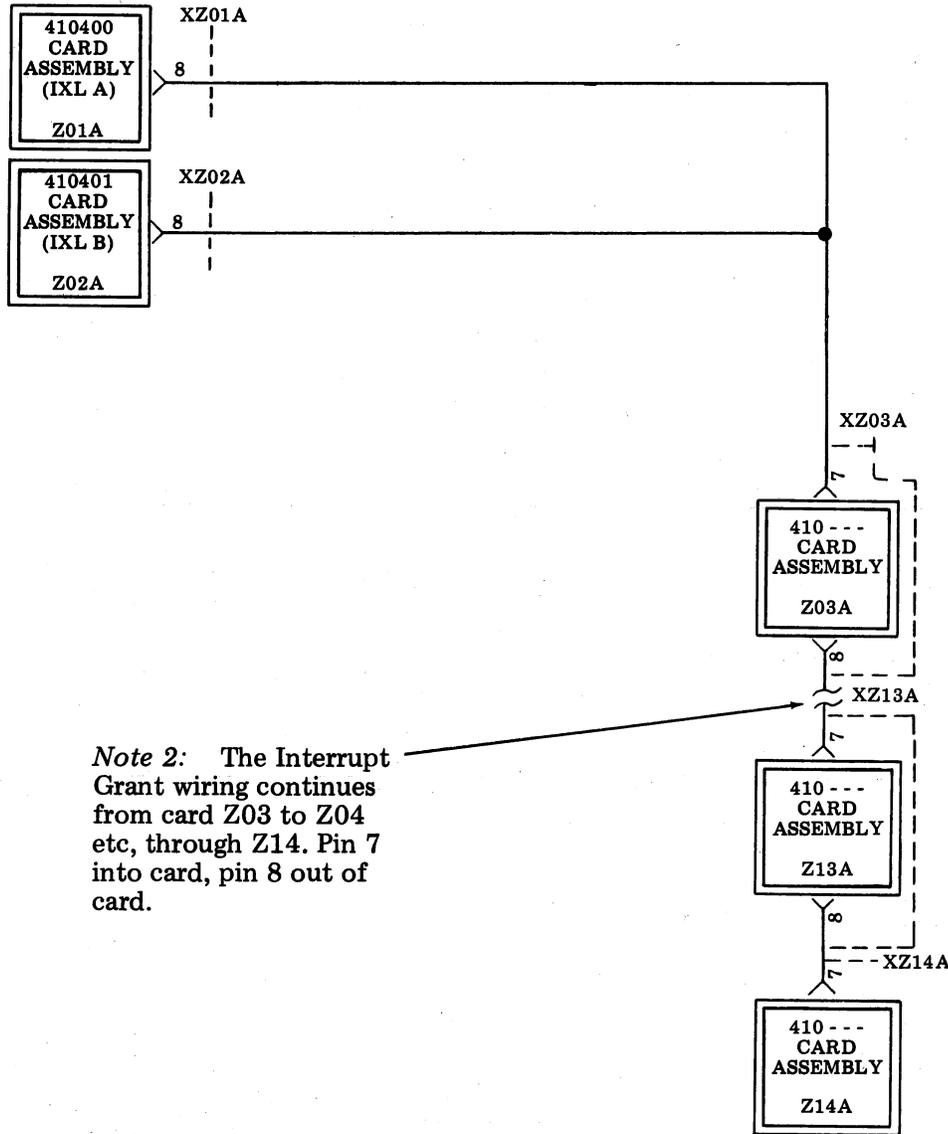
Note 1:  Indicates multiple connection, ie, terminal "2" is common to all connectors "01A" to "14A".

Fig. 7

BACK PANEL INTERNAL WIRING (Cont)

INTERRUPT GRANT  
WIRING



Note 2: The Interrupt Grant wiring continues from card Z03 to Z04 etc, through Z14. Pin 7 into card, pin 8 out of card.

Fig. 7 (Cont)

BACK PANEL INTERNAL WIRING (Cont)

POWER AND MISCELLANEOUS WIRING

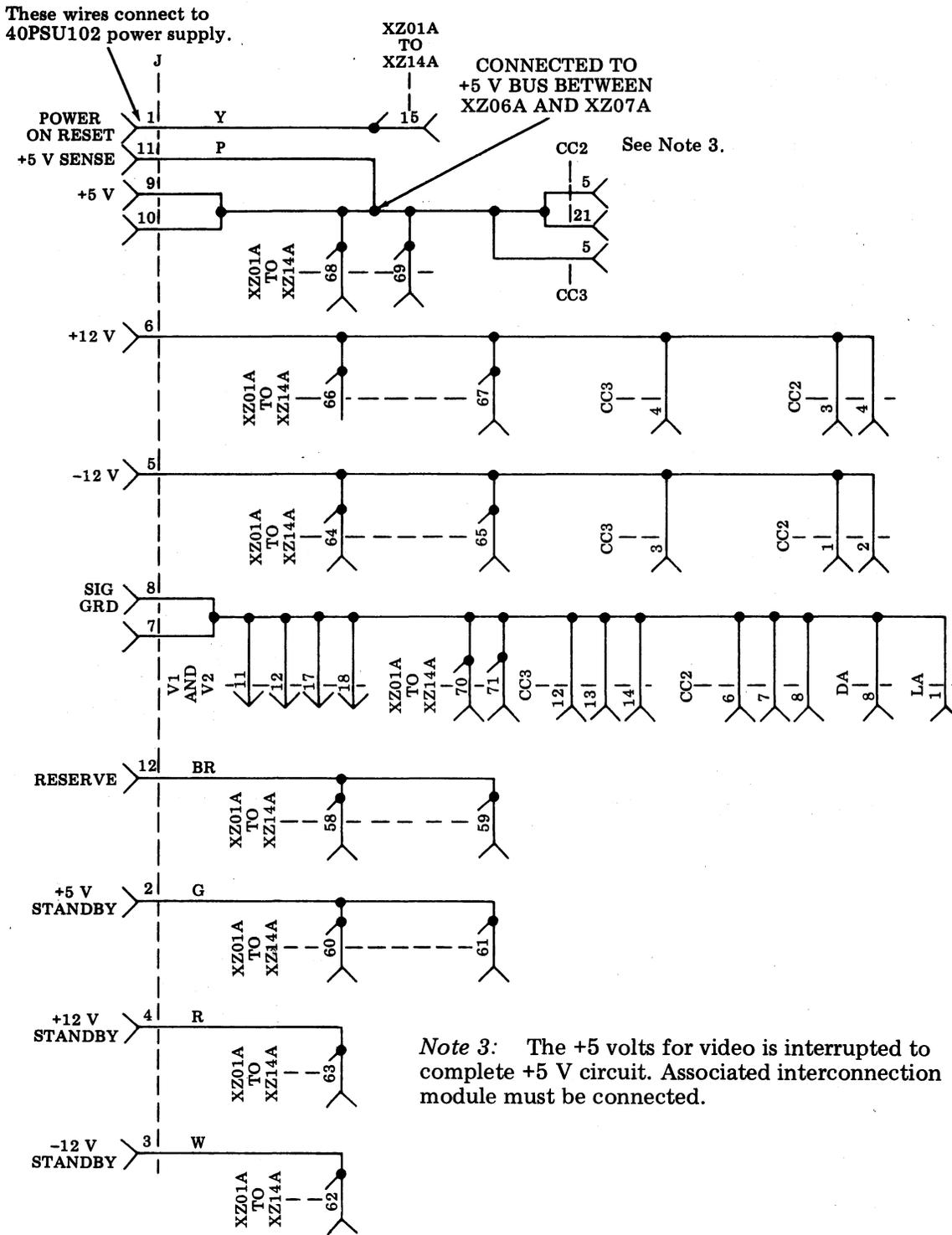


Fig. 7 (Cont)

BACK PANEL INTERNAL WIRING (Cont)

SSI

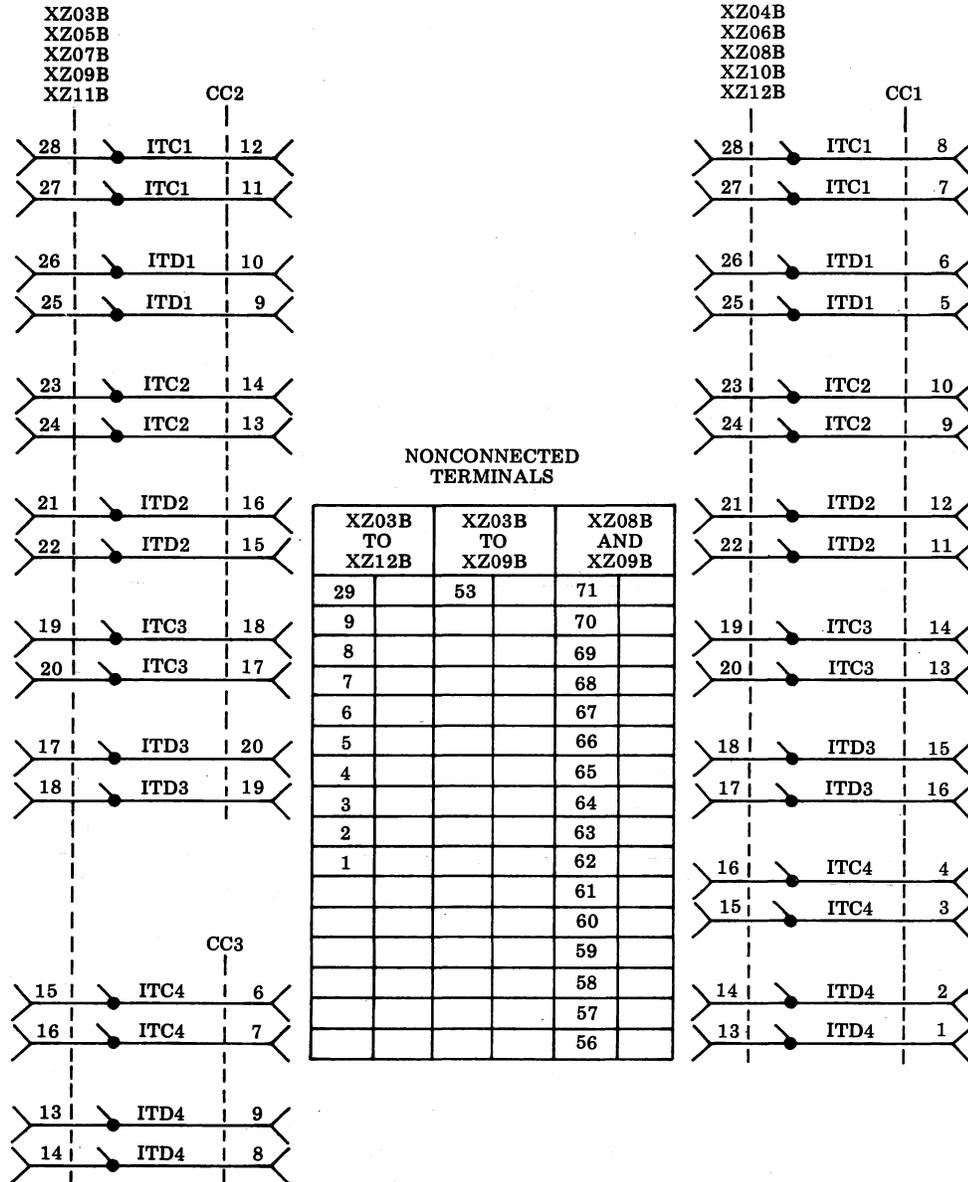


Fig. 7 (Cont)

BACK PANEL INTERNAL WIRING (Cont)

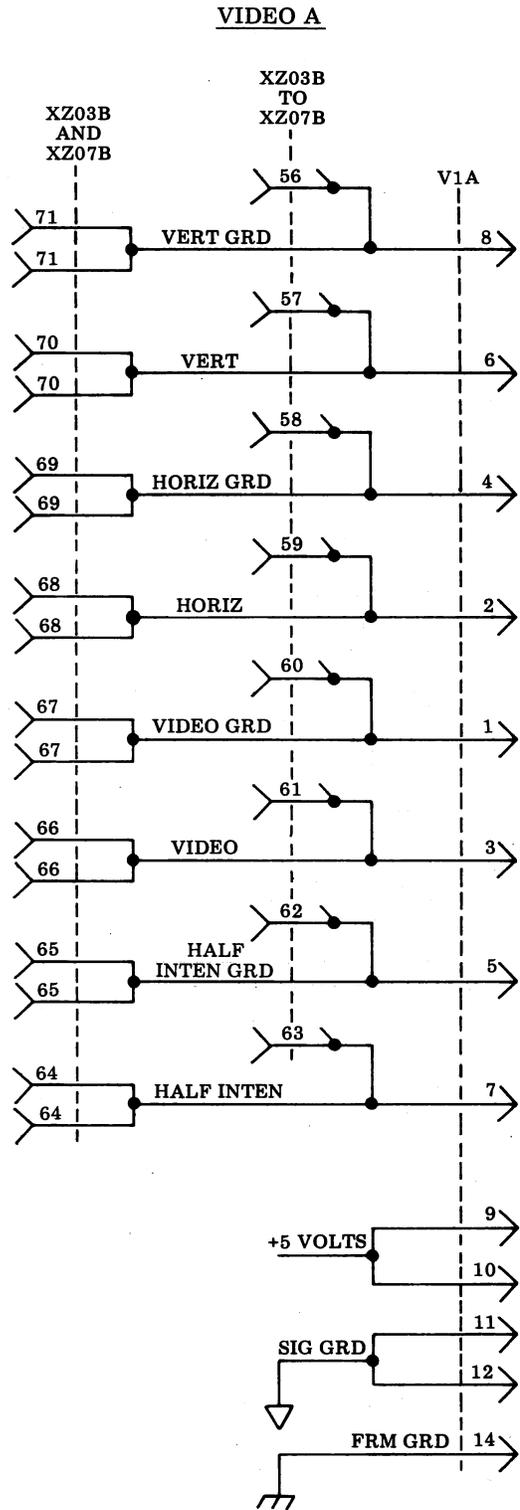
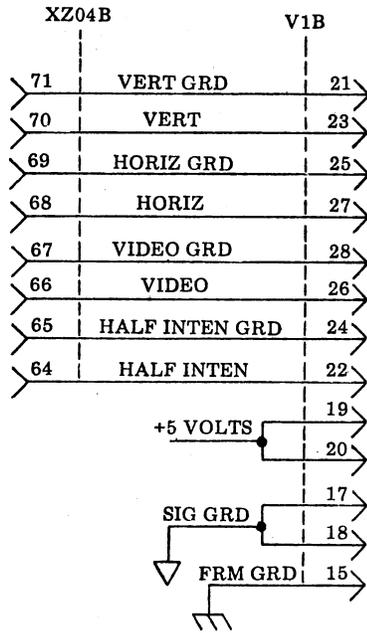


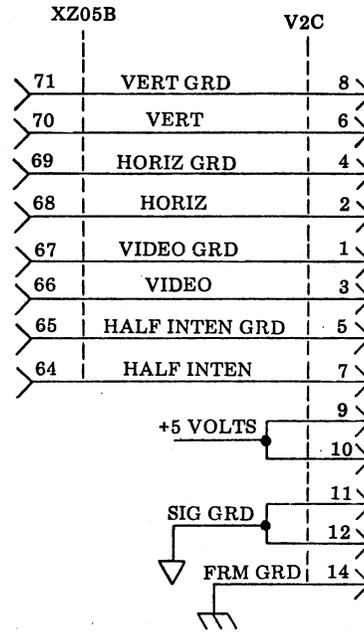
Fig. 7 (Cont)

BACK PANEL INTERNAL WIRING (Cont)

VIDEO B



VIDEO C



VIDEO D

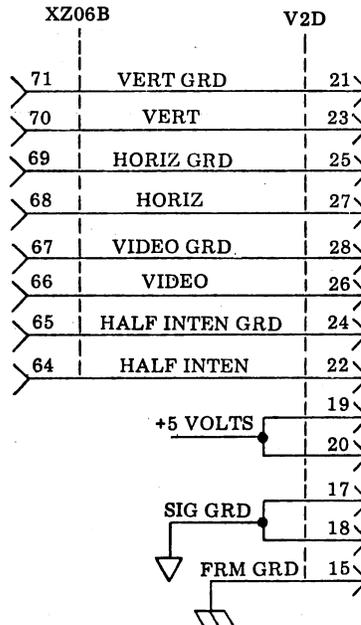


Fig. 7 (Cont)

## 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 $\phi$	37
3	MUX EN (L)	3	38	ACC CLK	38
4	R2	4	39	SEQ CTRL $\phi$	39
5	R3	5	40		40
6	R1	6	41		41
7	R0	7	42		42
8	DA $\phi$	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 $\phi$	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 $\phi$	34	71	MUX SEL $\phi$	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)

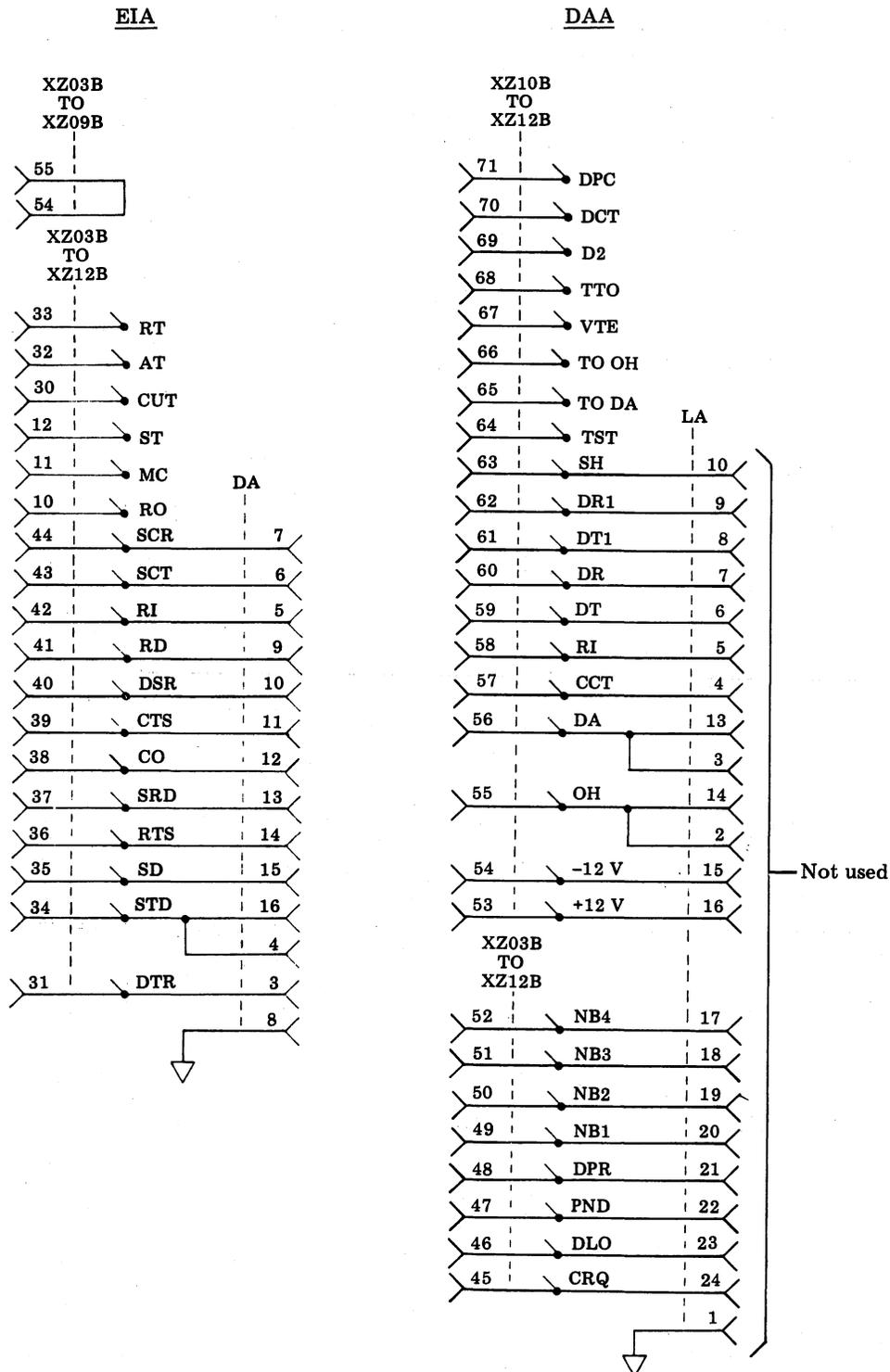
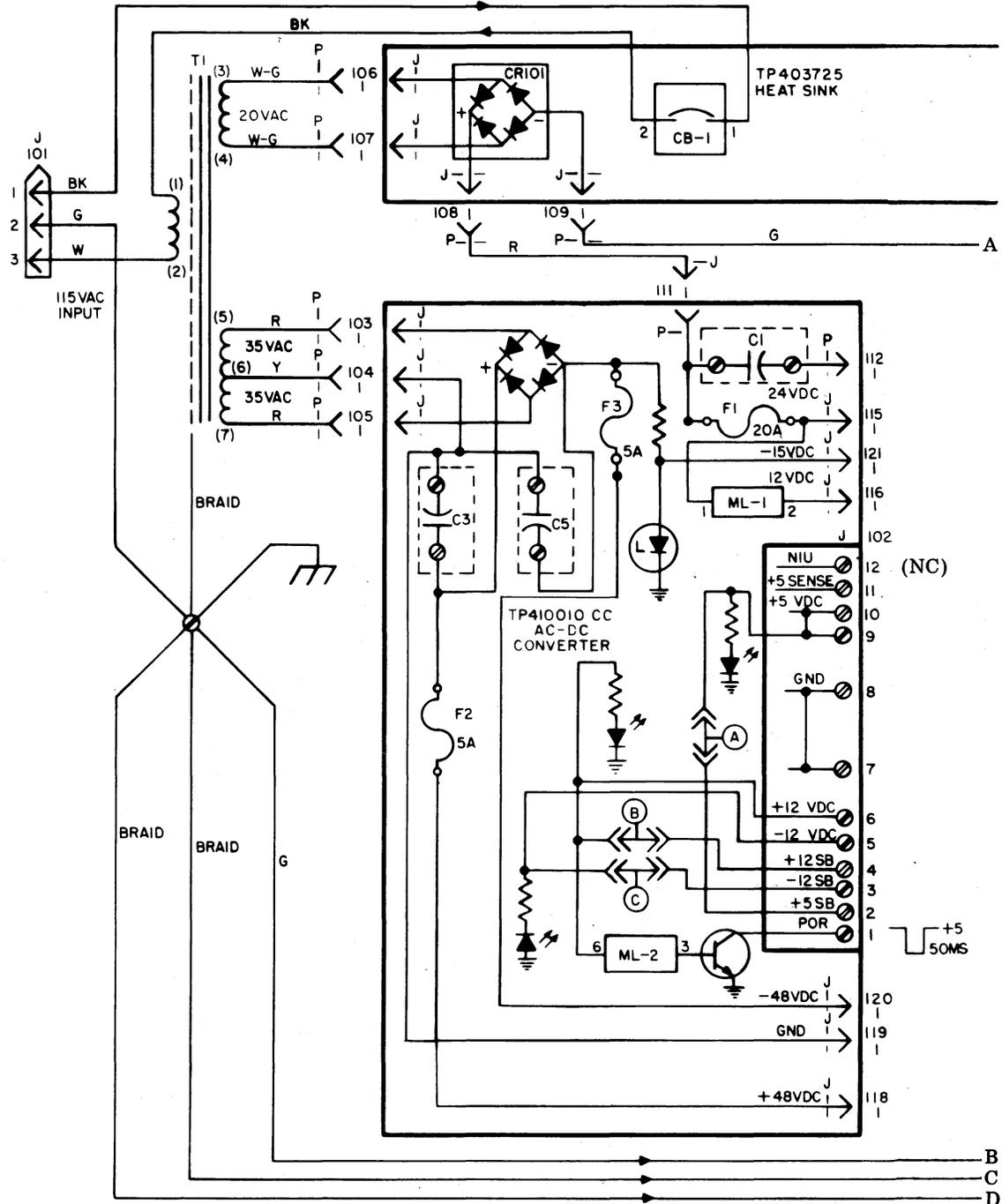


Fig. 7 (Cont)

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)

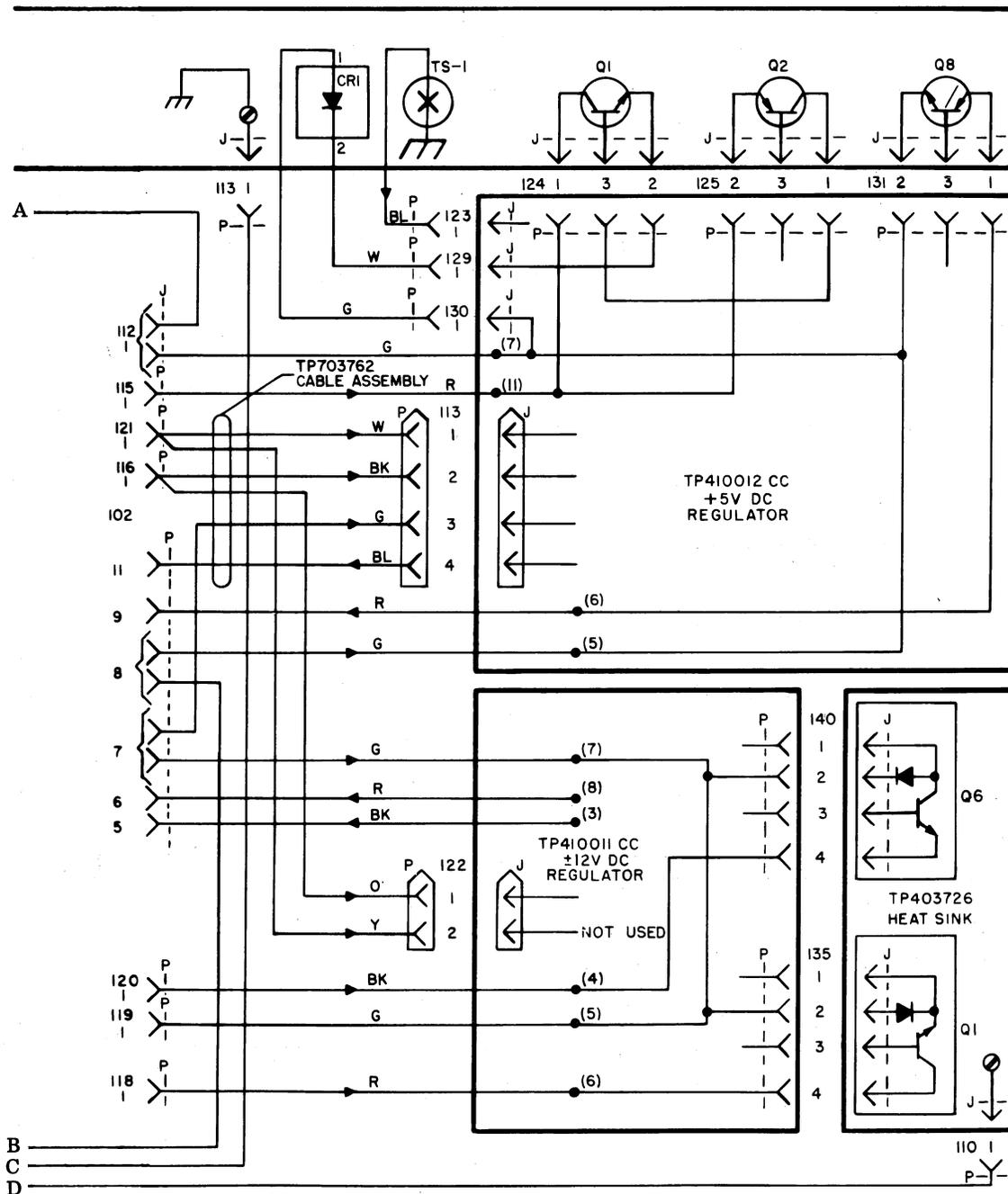


Fig. 8 (Cont)

OPCONS

A. 40K104/DAB (Early Design) Opcon

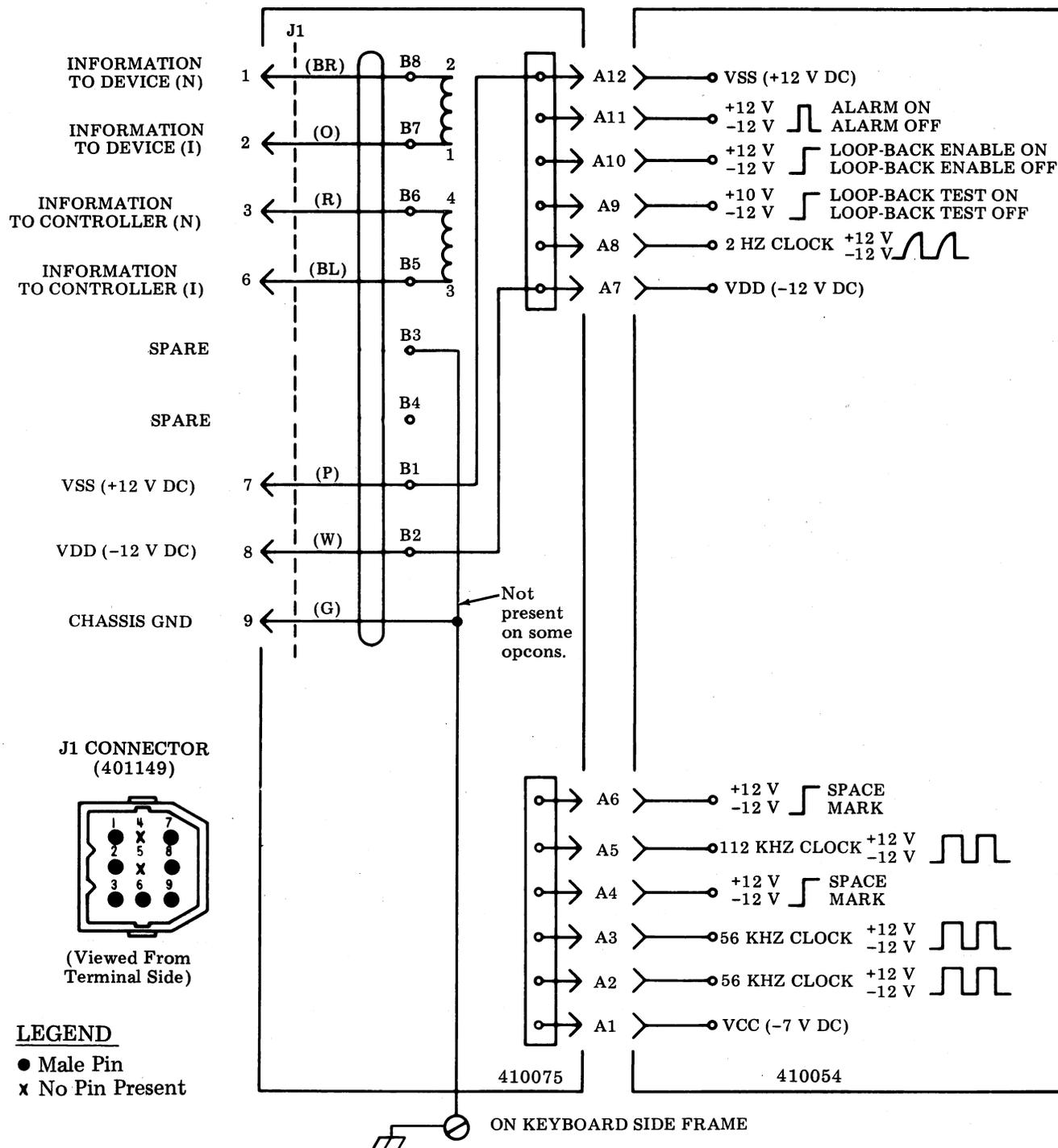


Fig. 9

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

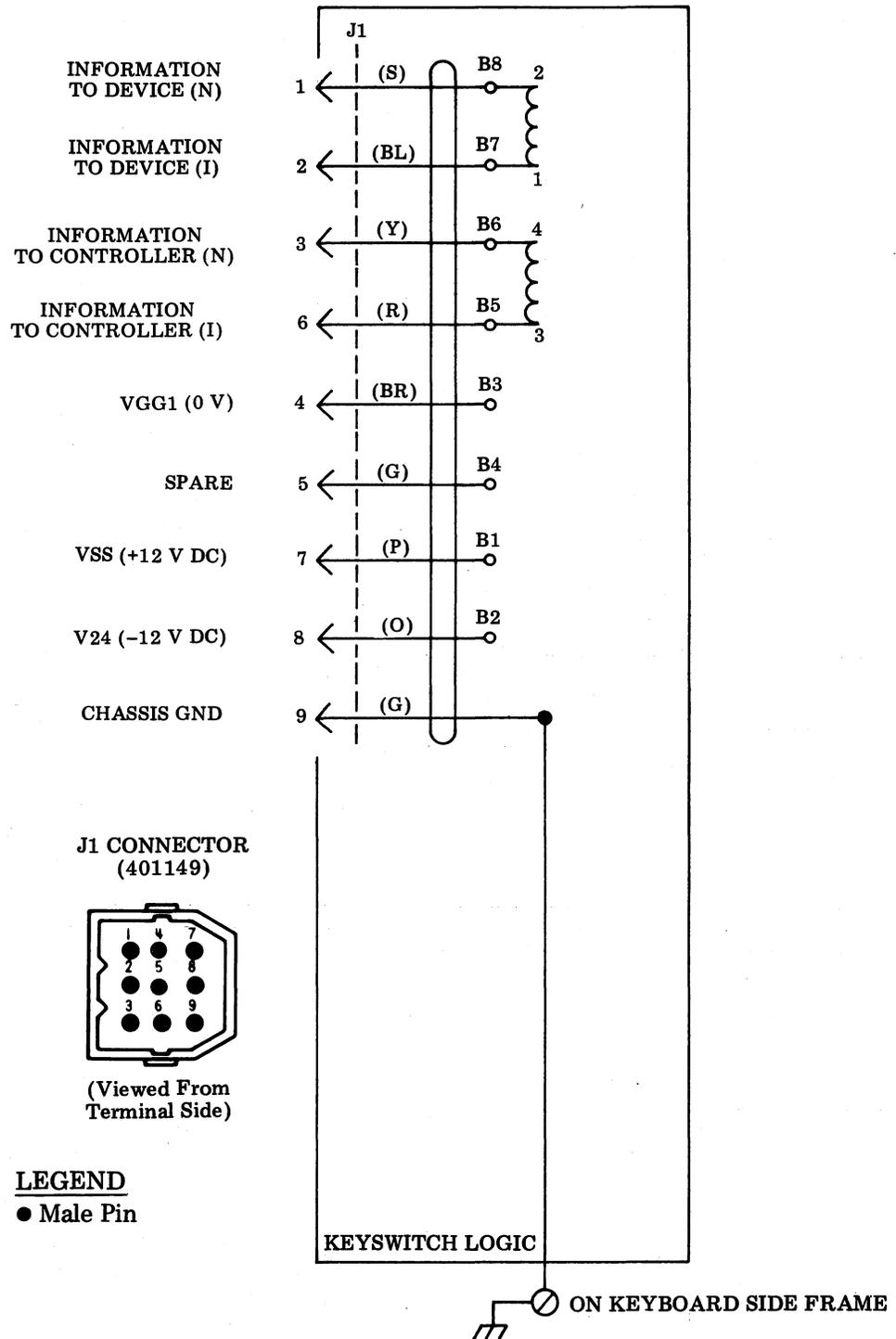


Fig. 10

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.

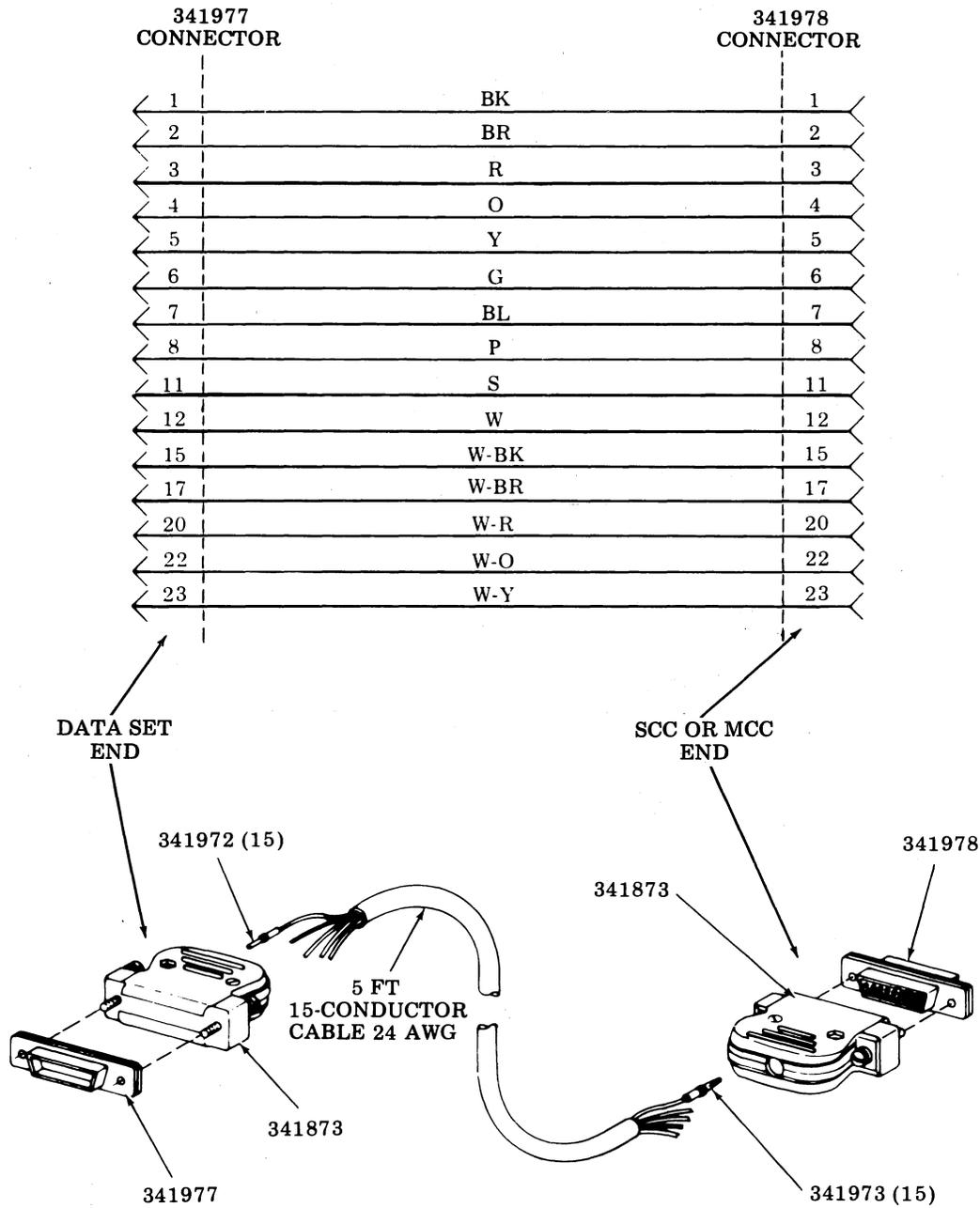
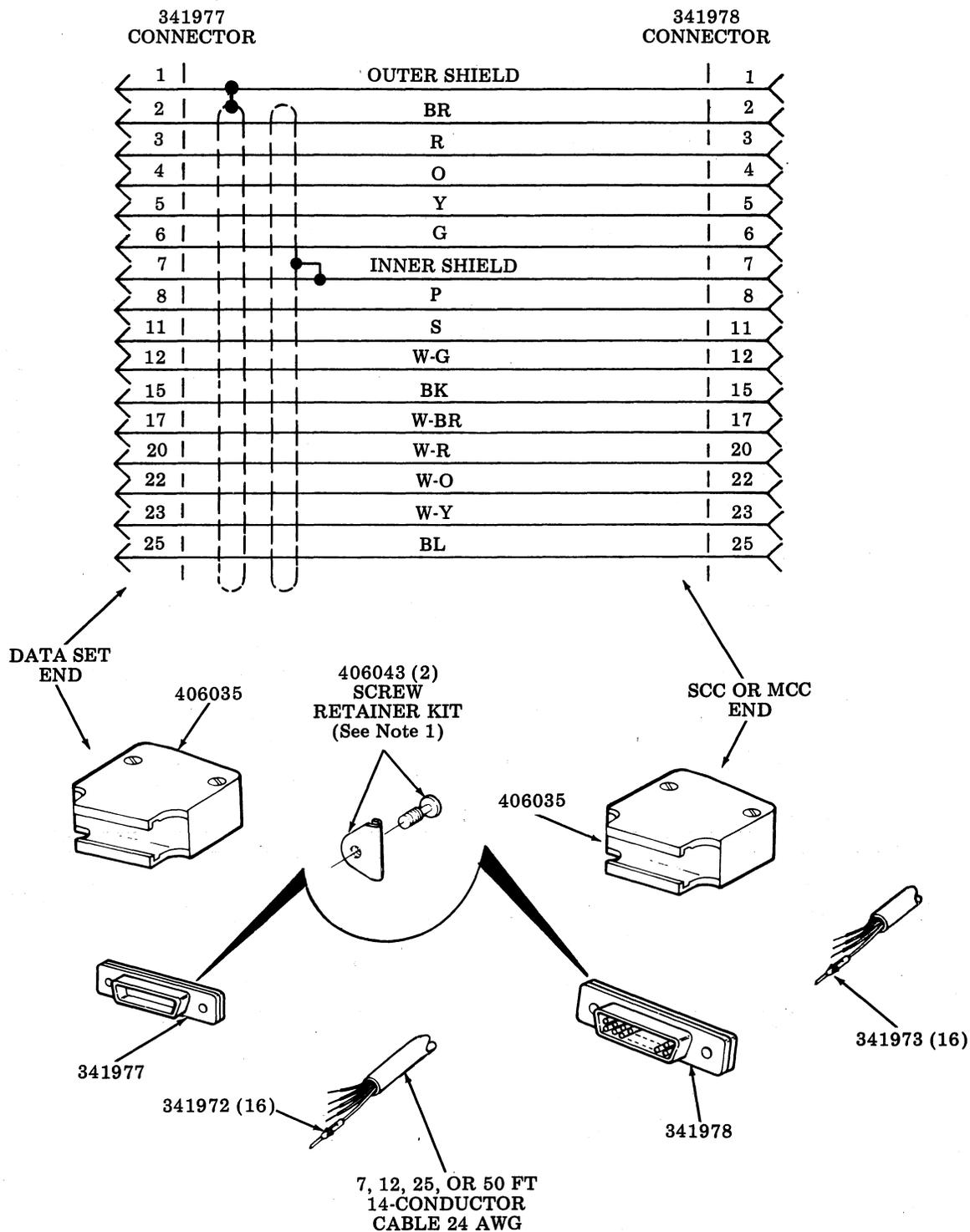


Fig. 11

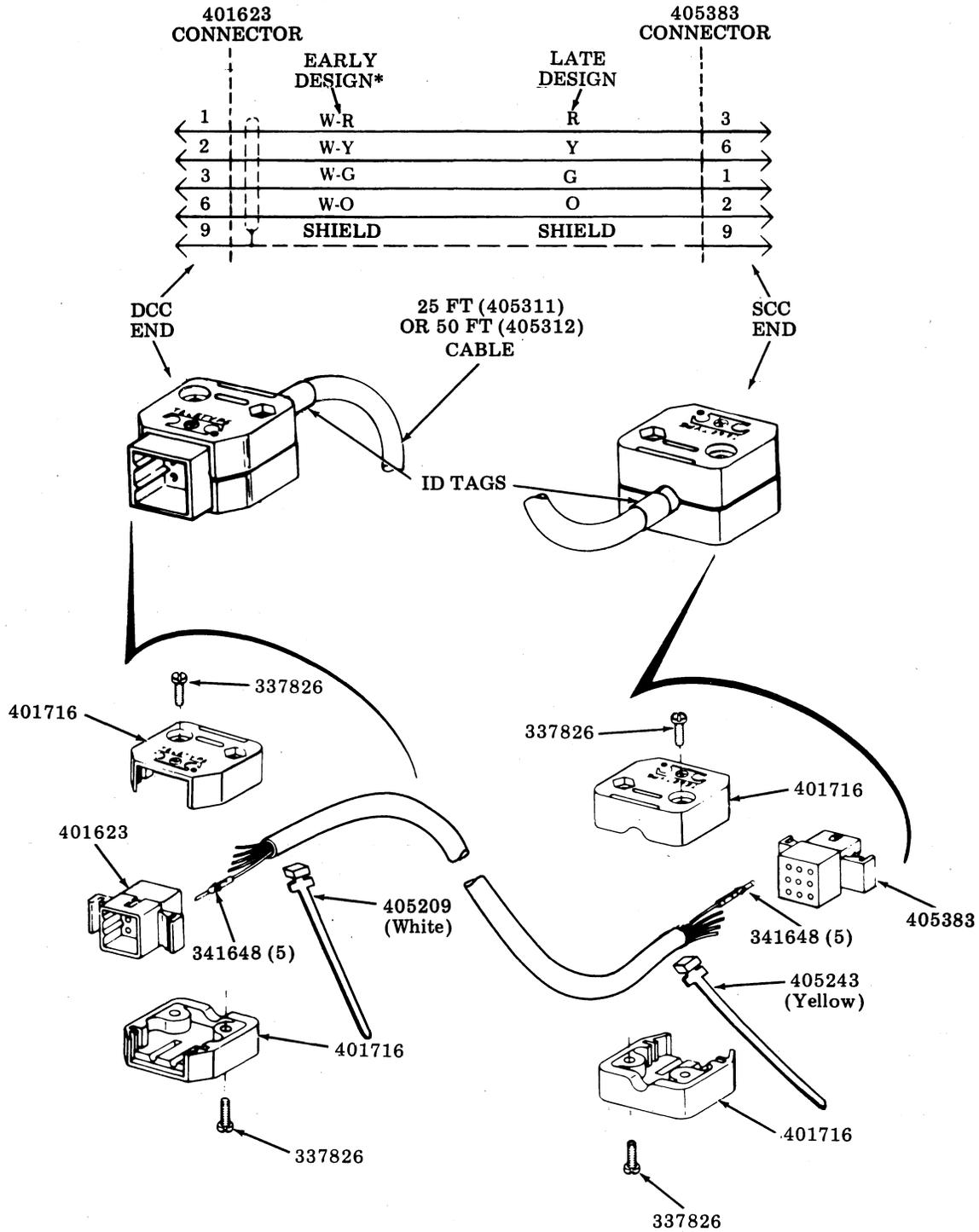
A. Data Set Cable Assemblies — SCC, MCC (Cont)



Note: Each 406043 screw retainer kit contains two screws and two retainers.

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

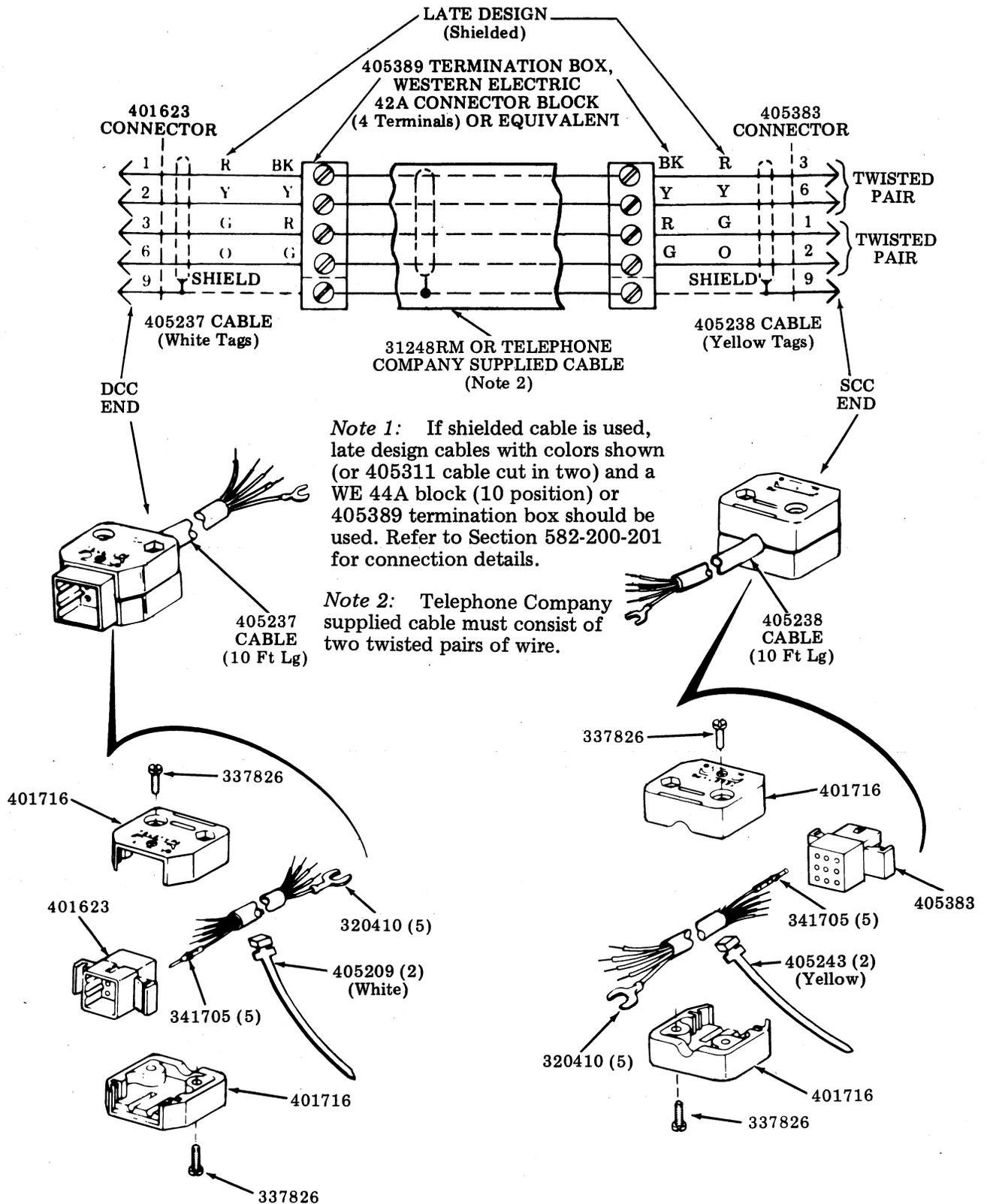


Fig. 13

D. Controller/Printer Cable Assemblies — DCC, MCC

PART NUMBER	LENGTH	PART NUMBER	LENGTH
405306	6 Ft	405308	25 Ft
405307	12 Ft	405309	50 Ft

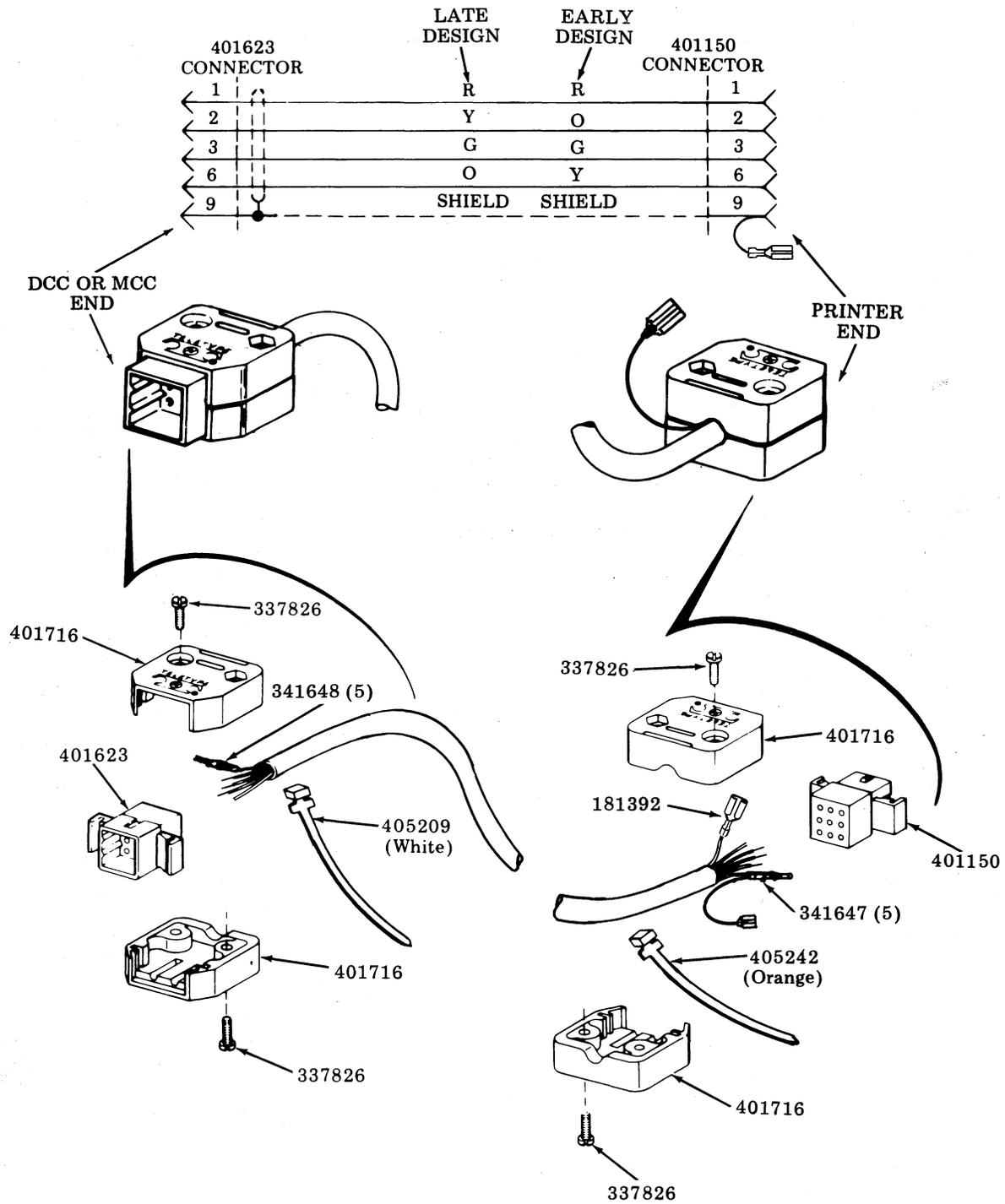


Fig. 14

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

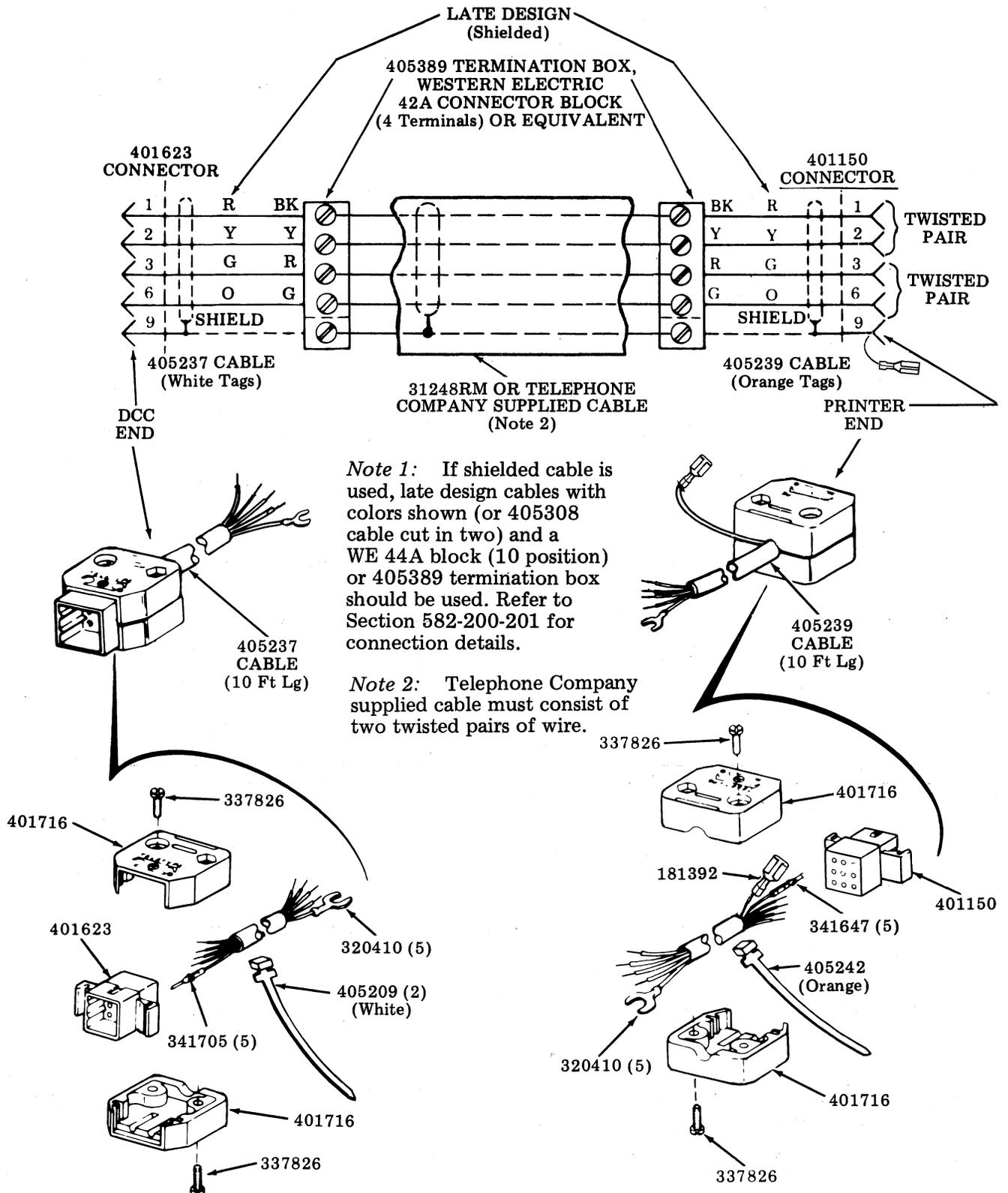
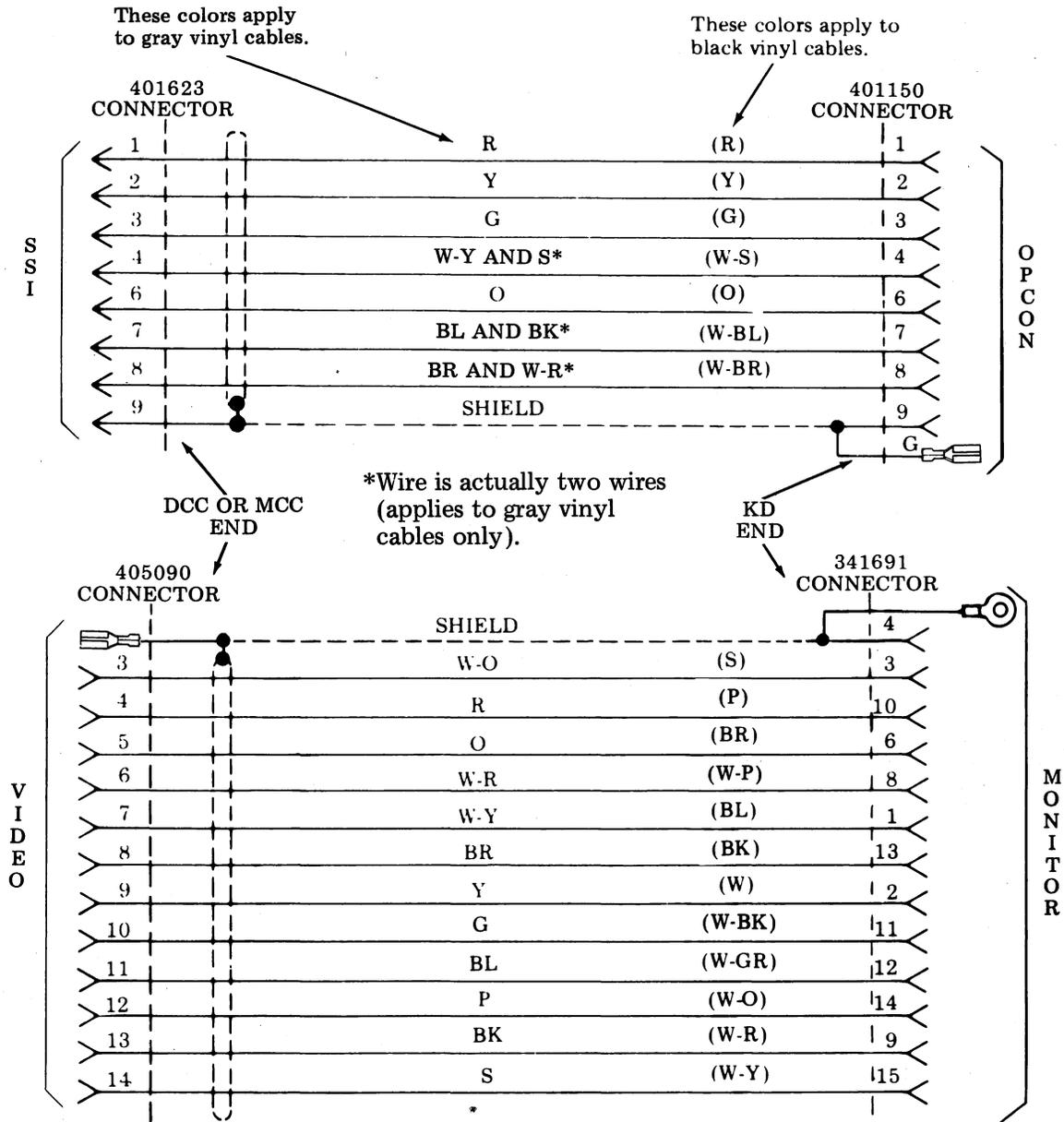


Fig. 15

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)

*Note:* To remove damaged 400602 terminals from 405090 connector, lift retaining tab (part of connector) just enough to remove pin. To install a pin, merely push in pin.

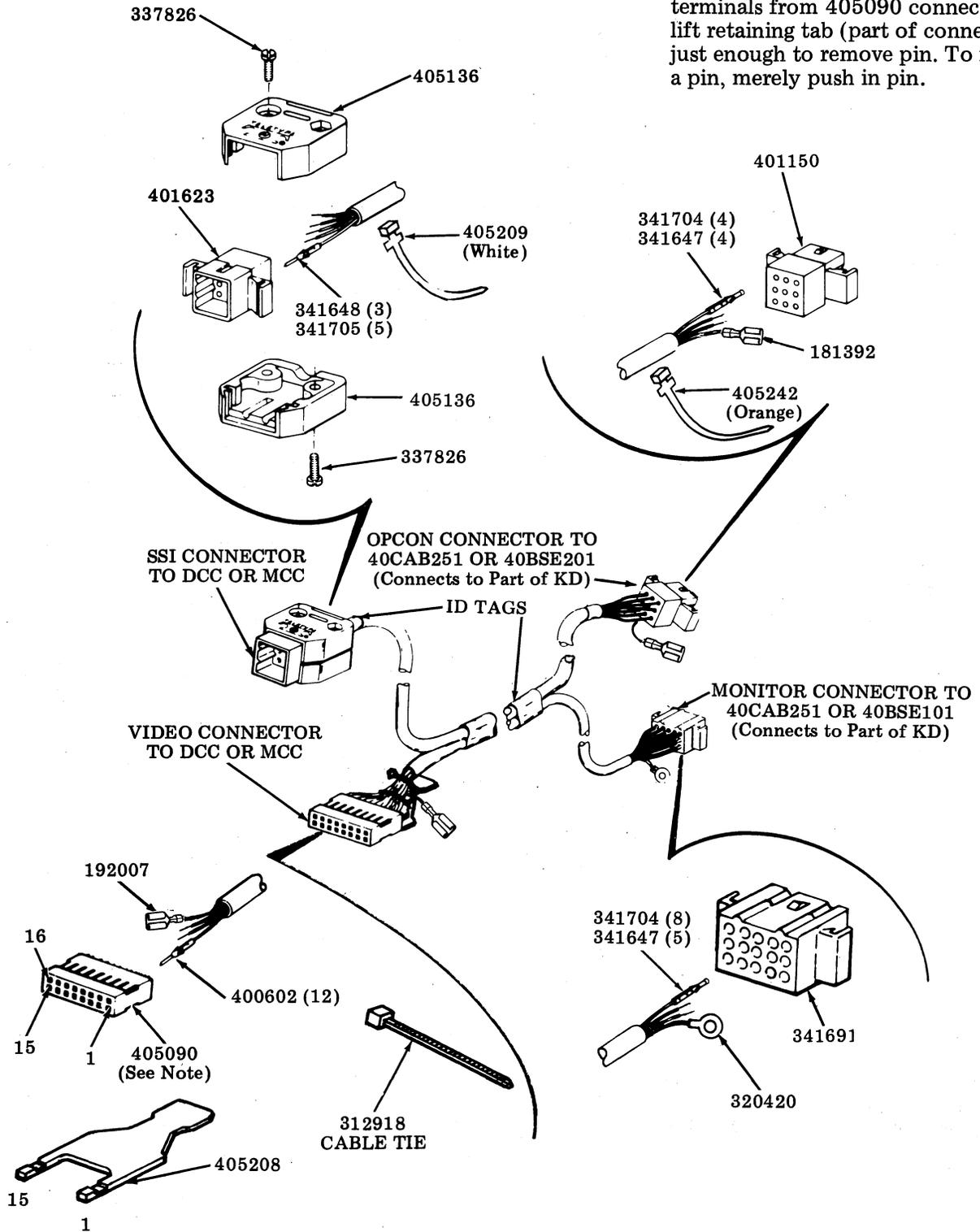
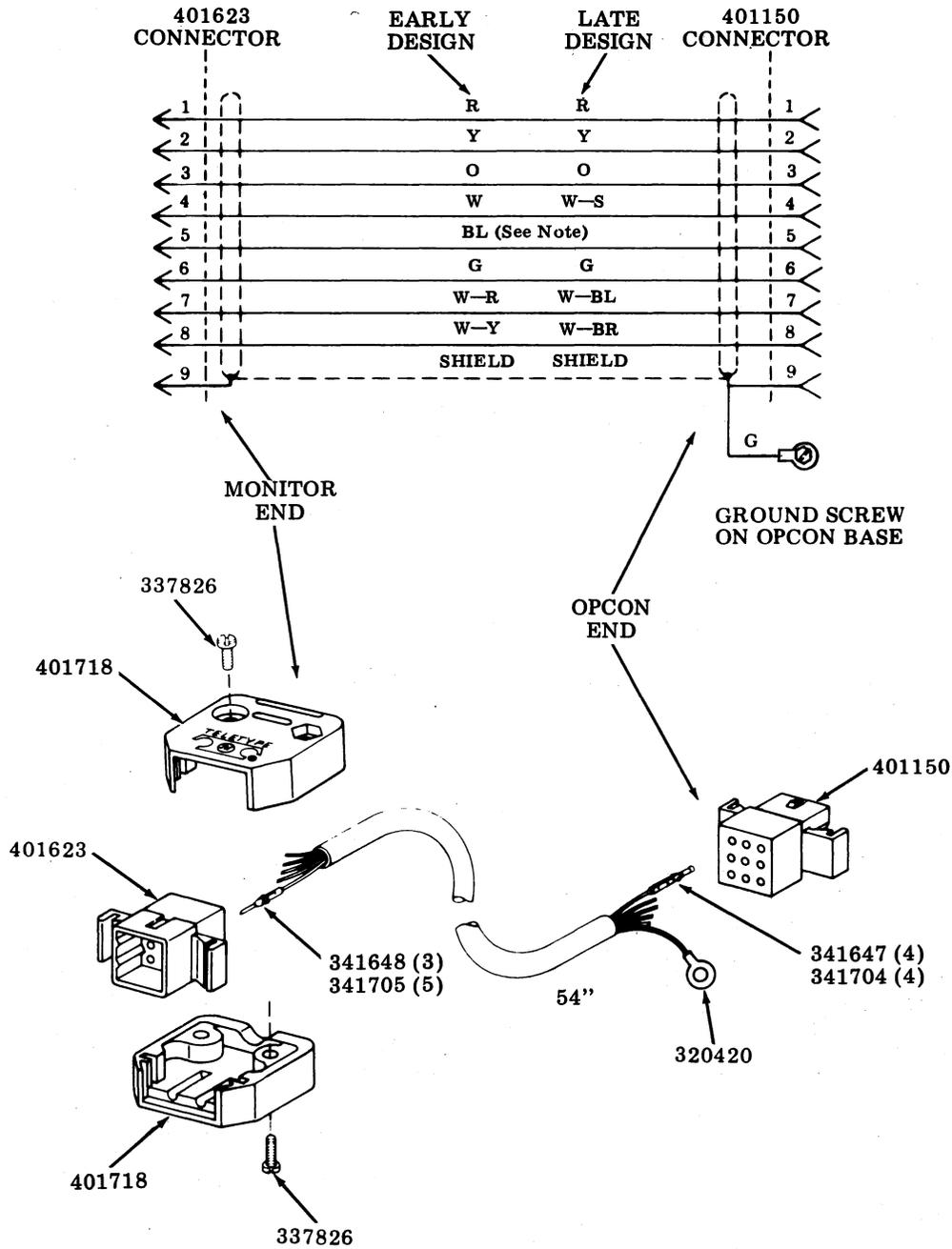


Fig. 16 (Cont)

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



**Note:** Later design cables do not have unused blue lead in terminal 5.

Fig. 17

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

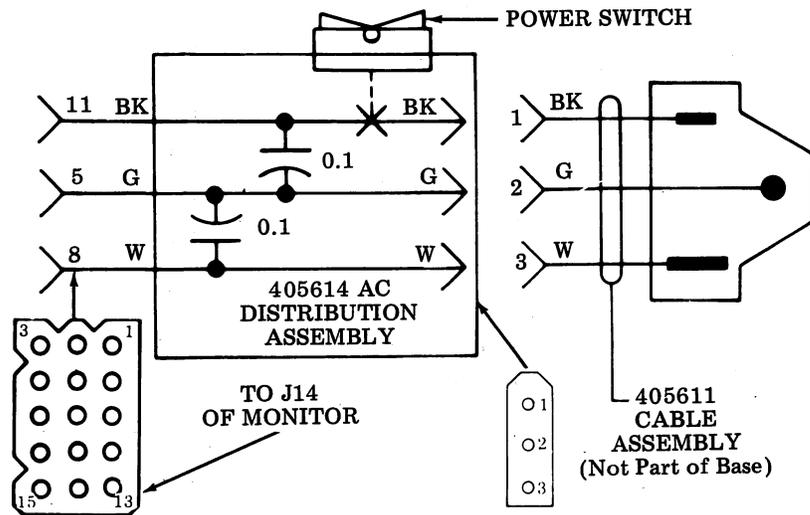


Fig. 18