

“DATASPEED*” 40 CABINETS

WIRING

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1. GENERAL

- 1.01 This section provides actual and schematic wiring diagrams for DATASPEED 40 Cabinets, hereafter referred to as 40-type.
- 1.02 This section is reissued to include wiring for late design forms access printer cabinet. This is a general revision, therefore, marginal arrows have been omitted.
- 1.03 Testing of the cabinets consists primarily of making certain voltage and continuity checks using a volt-ohm-milliammeter (VOM) switched to appropriate range.
- 1.04 Whenever a check fails, refer to schematic diagrams to troubleshoot for point-to-point wiring information and refer to Section 582-212-700 for Disassembly/Reassembly and Parts information.
- 1.05 Schematics shown are for all cabinets in general. Detailed actual and schematic wiring diagrams and circuit descriptions for specific sets are referenced in 3. WIRING INDEX.

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1.06 Due to the large number of parts to be identified in composite drawings in this section, all part descriptions have not been shown. Refer to Section 582-212-700 for complete parts list with descriptions.

Note: When ordering replaceable parts or components, unless otherwise specified, prefix each part number with the letters “TP” (ie, TP410055).

2. TESTING

A. Power Cord (All Cabinets)

2.01 Check continuity between power cord plug grounding pin and cabinet or chassis ground connection (Fig. 1). The resistance reading should be essentially zero ohms with VOM RX1 range.

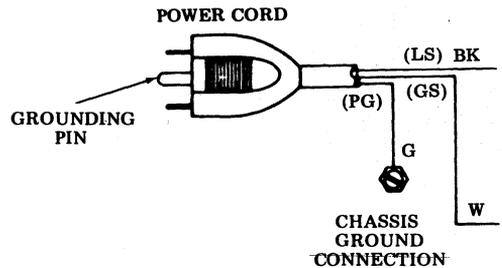


Fig. 1

B. Interlock Switch

•Friction Feed Printer Cabinet

2.02 The interlock switch has a three-position activator (Fig. 2). Check for continuity at interlock connector terminals 1 to 2 when the activator is lifted to its 1 position (maintenance)

and held down (audible click) in its 3 position. No continuity should be observed in its 2 position (Fig. 6).

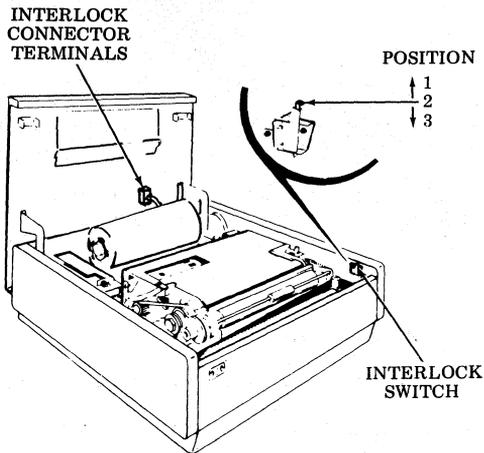


Fig. 2

• Tractor Feed Printer Cabinet

2.03 The interlock switch has a three-position activator (Fig. 3). Check for continuity at connector terminals 6 to 7 when the activator is lifted to its 1 position (maintenance) and held down (audible click) in its 3 position. No continuity should be observed in its 2 position (Fig. 7).

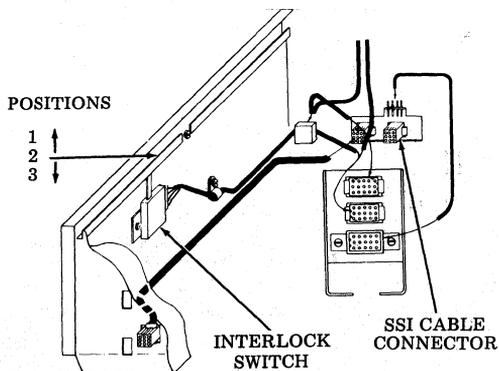


Fig. 3

• Forms Access Printer Cabinet (Early Design)

2.04 There are three interlock switches on this cabinet. Each switch has a three-position activator (Fig. 4). Check for continuity at connector terminals 6 to 7 when the activators are lifted to their 1 position (maintenance) and held down (audible click) in their 3 position. No continuity should be observed in their 2 position (Fig. 8). If cable continuity fails, check individual interlocks.

(Late Design)

2.05 There is one interlock switch on this cabinet. The interlock switch has a three-position activator (Fig. 5). Check for continuity at connector terminals 6 to 7 when the activator is lifted to its 1 position (maintenance) and held down (audible click) in its 3 position. No continuity should be observed in its 2 position (Fig. 8).

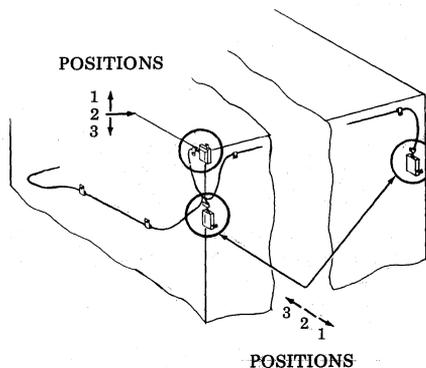


Fig. 4

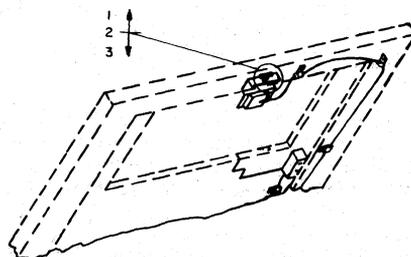


Fig. 5

C. SSI Cable Assembly

• Friction Feed Printer Cabinet

2.06 Check for continuity of the SSI cable at connector terminals 1 to 2 and 3 to 6 at the rear of the printer cabinet (Fig. 9).

• Tractor Feed and Forms Access Printer Cabinet

2.07 Check for continuity of the SSI cable connector terminals 1 to 2 and 3 to 6 at the rear of the printer cabinet (Fig. 10).

D. Switches and Lamps

• Tractor Feed Printer Cabinet

2.08 Check for continuity of the paper advance switch at connector terminals 3 to 4 when switch is depressed (Fig. 7).

2.09 Check for continuity of lamp in the paper switch at connector terminals 1 to 2 (Fig. 7).

• Forms Access Printer Cabinet

2.10 Check for continuity of the paper advance switch at connector terminals 3 to 4 when switch is depressed (Fig. 8).

2.11 Check for continuity of lamp in the paper switch at connector terminals 1 to 2 (Fig. 8).

2.12 Check for continuity of power on switch and lamp at connector terminals 4 and 6 when switch is depressed (Fig. 11).

E. AC Distribution Assembly

2.13 Check for 115 Vac ± 10 percent at all receptacles of the AC Distribution Assembly. (Figs. 12 through 17).

F. Simplified EIA-Like Interface

2.14 Check for continuity of connector terminals at P119 and P121 (Fig. 19, Page 10) and connector terminals at P115 and P116 (Fig. 20).

3. WIRING INDEX

WDP NUMBER	DESCRIPTION	WD	SD	CD
0436	Model 40 Tractor Feed RO Printer Set With Integrated Controller - 80 and 132 Cabinet	9436	1306	-
0441	Model 40 Friction Feed Printer Sets (SSI)	9441	1301	1301
0443	Model 40 Tractor Feed Printer Sets 80 and 132 Column (SSI and Simplified EIA-Like Interface)	9442	1303	1303
0481	Model 40 Friction Feed Printer Set (40P102) in 40CAB371/ZZ Cabinet (SSI and Integrated Controller)	9611	1312	1312
0487	Model 40 Friction Feed Printer Set (SSI)	9611	1301	1301
0516	Model 40 Tractor Feed ROP With Integrated Controller - 80 and 132 Column (Dual EIA)	9449	1318	-
0532	Model 40 Forms Access Printer Cabinet (SSI, Simplified EIA-Like and Integrated Controller)	9644	1322	-
-	Model 40 Friction Feed Printer Cabinetry 40CAB201/AA, AC, ZZ and 40CAB251/AA	9600	-	-
-	Model 40 Table Top Logic and Keyboard Display Cabinetry 40CAB251/AB, AC, AE, ZZ, 40CAB251/AB and 40CAB201/AB	9601	-	-
-	Model 40 Pedestal AC Power Distribution	9602	-	-
0508	346744 Modification Kit to Provide Simplified EIA-Like Interface Capabilities in a Model 40CAB371 Friction Feed Printer Cabinet	9629	4087	4087

WD = Wiring Diagram
SD = Schematic Diagram
CD = Circuit Description

4. SCHEMATIC WIRING DIAGRAMS

4.01 Following are the schematics related to 2. TESTING.

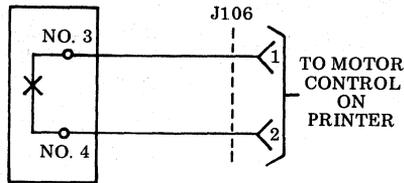


Fig. 6—Friction Feed Cabinet Interlock Cable Assembly

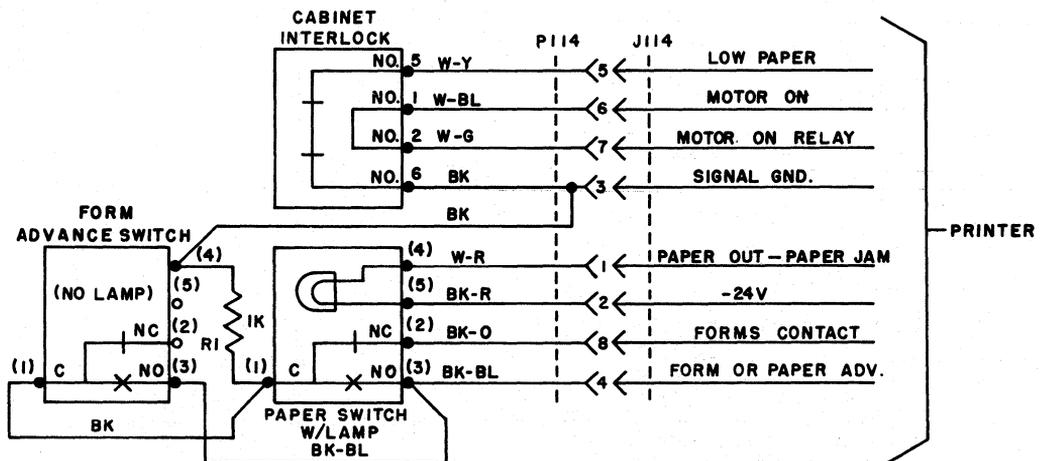
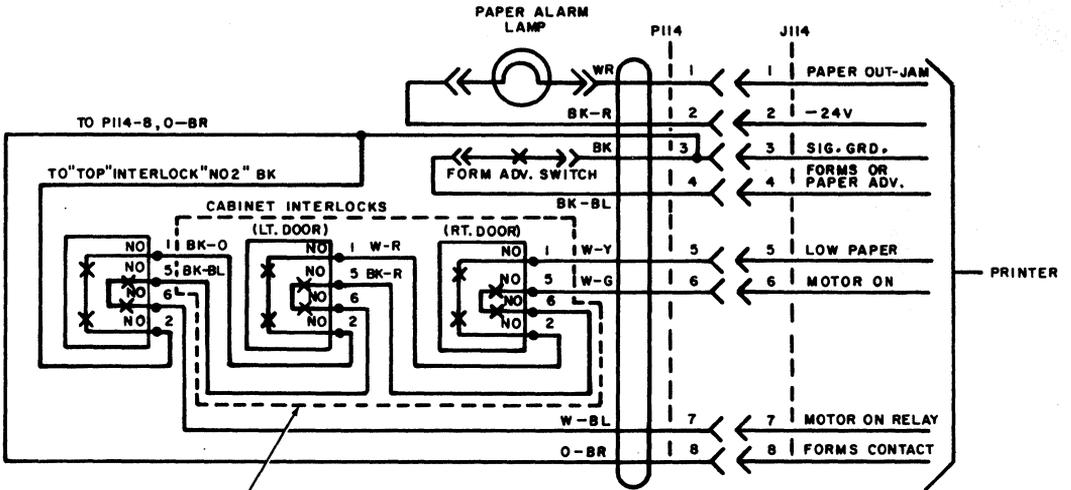


Fig. 7—Tractor Feed Cabinet Interlock, Form Advance and Paper Switches



Used only on cabinets with rail printer shelf and 406424 cable assembly (early design). On cabinets with solid printer shelf and 453358 cable assembly, single interlock terminals 1 and 5 are connected directly to P114 pins number 5 and 6 respectively (late design).

Fig. 8—Forms Access Printer Cabinet, Interlock, Form Advance and Paper Lamp

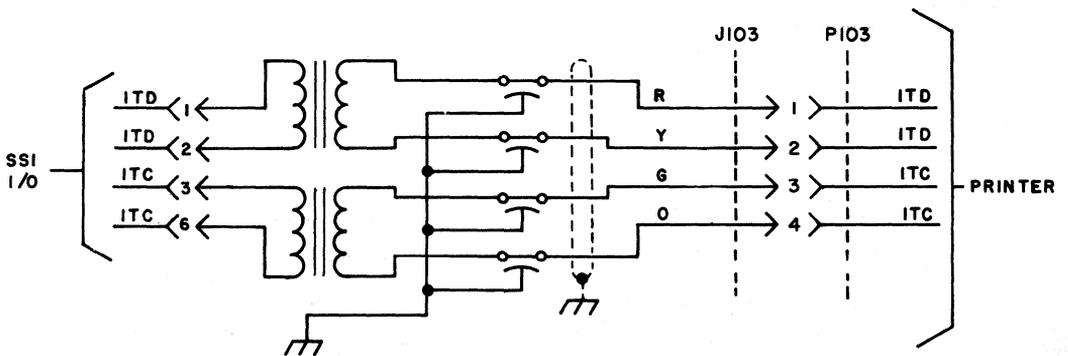


Fig. 9—Friction Feed Printer Cabinet SSI Cable Assembly

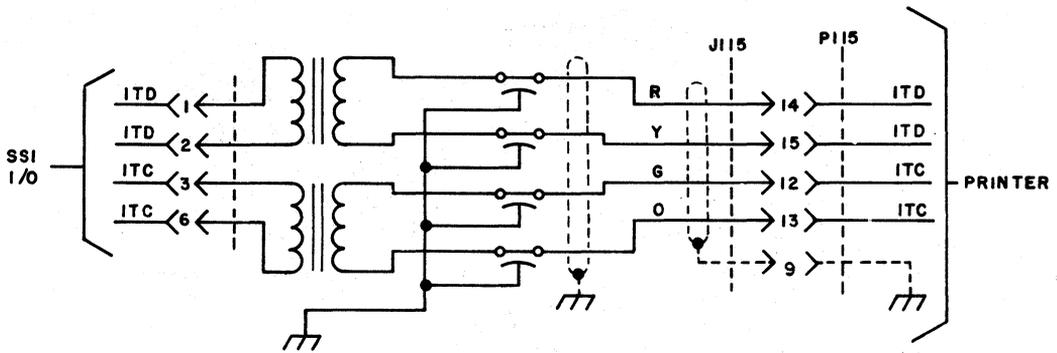


Fig. 10—Tractor Feed and Forms Access Printer Cabinet

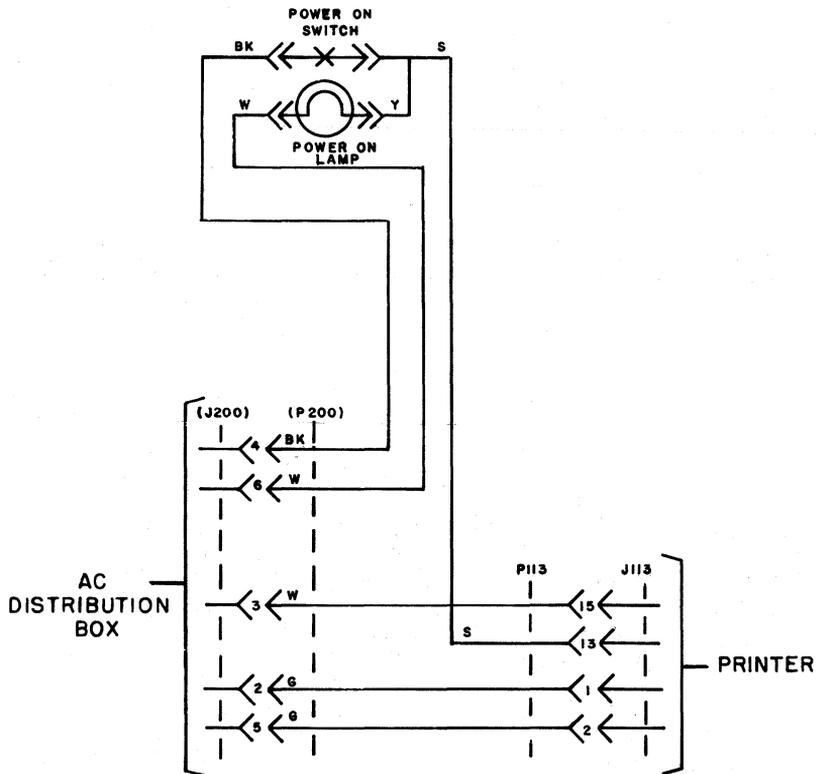


Fig. 11—Forms Access Printer Cabinet Power Switch and Lamp

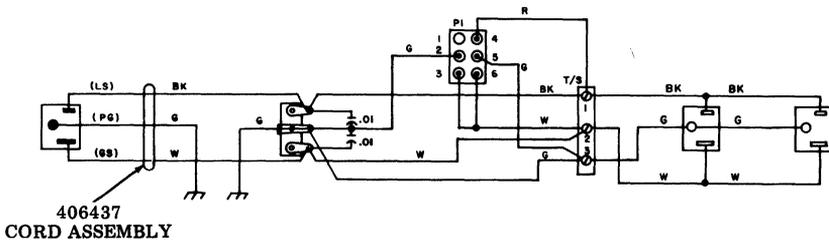


Fig. 12—406361 Forms Access Printer Cabinet AC Distribution Assembly (Early Design)

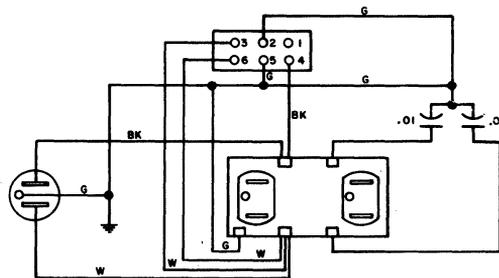


Fig. 13—453360 Forms Access Printer Cabinet AC Distribution Assembly (Late Design)

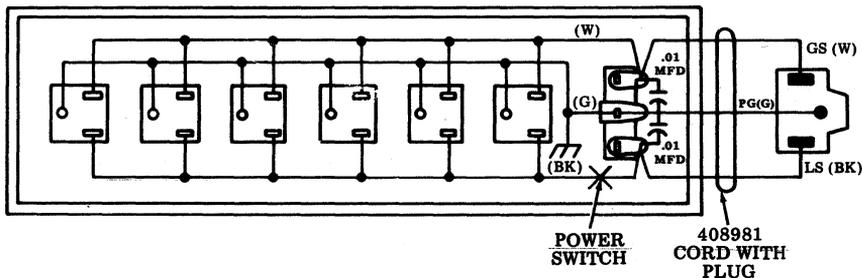


Fig. 14—407285 AC Distribution Panel Assembly (Late Design)

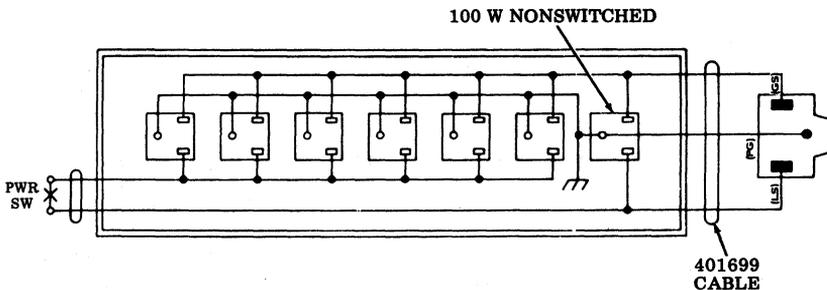


Fig. 15—401665 AC Distribution Panel Assembly (Early Design)

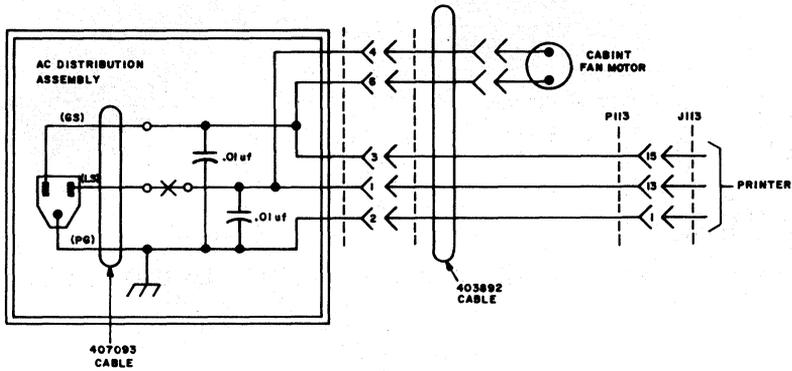
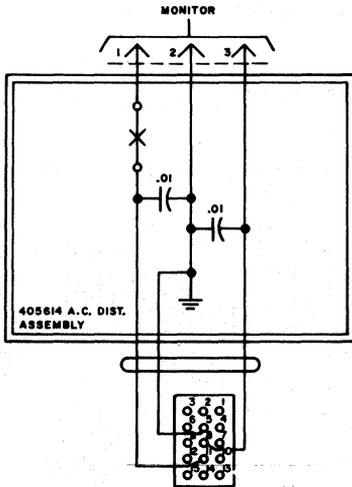


Fig. 16—Tractor Feed Cabinet, AC Distribution Assembly



Note: 405611 cable (not part of 40BSE101) is needed for ac power check.

Fig. 17—40BSE101 Circular Monitor Base, AC Distribution Assembly

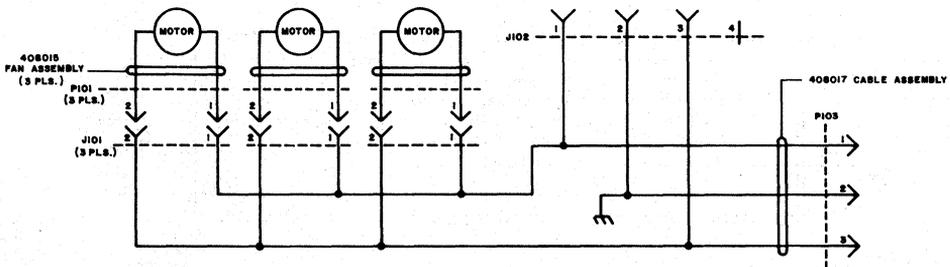


Fig. 18—408050 Ventilation Assembly

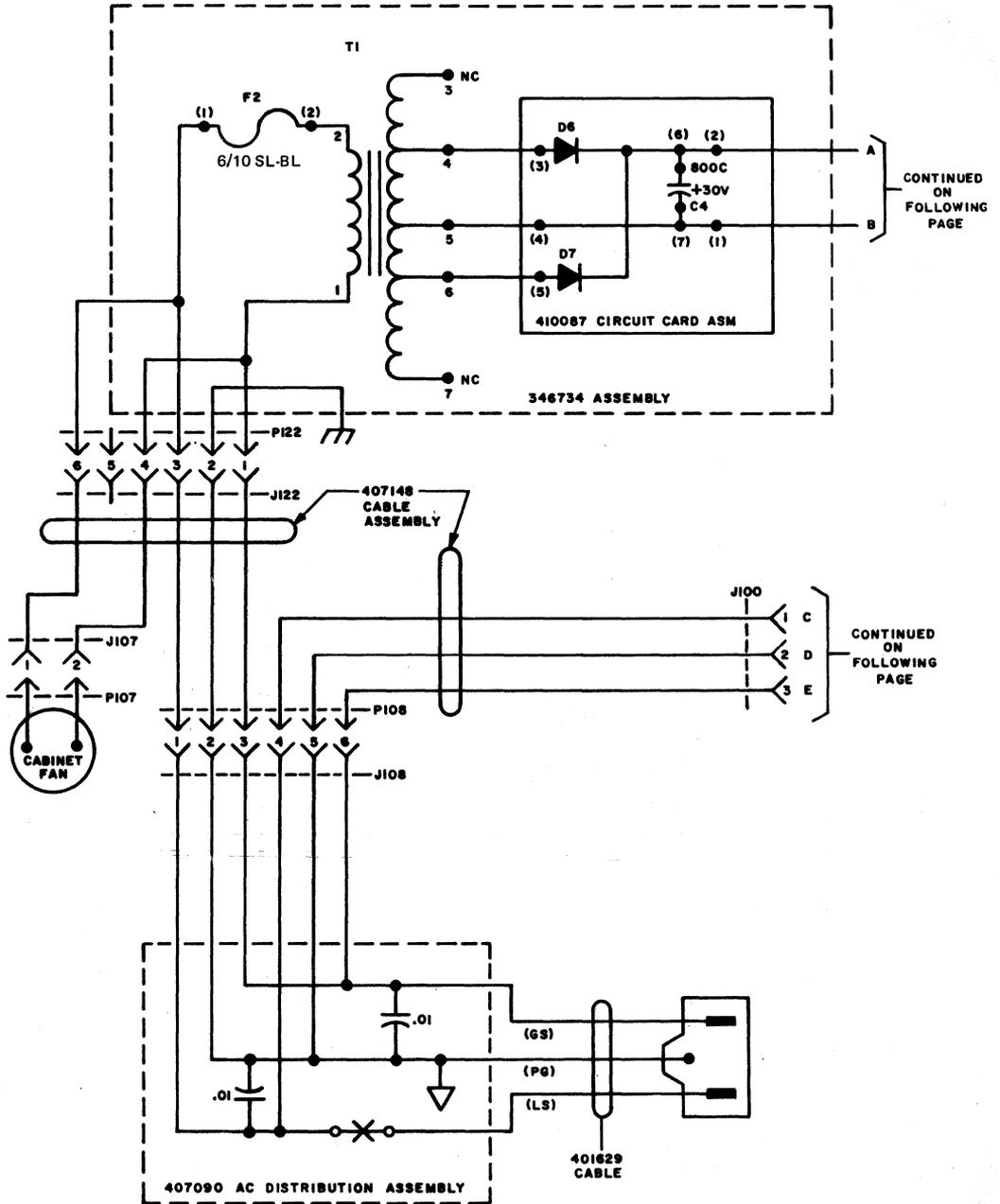


Fig. 19—40CAB371/AC Friction Feed Cabinet With Simplified EIA-Like Interface

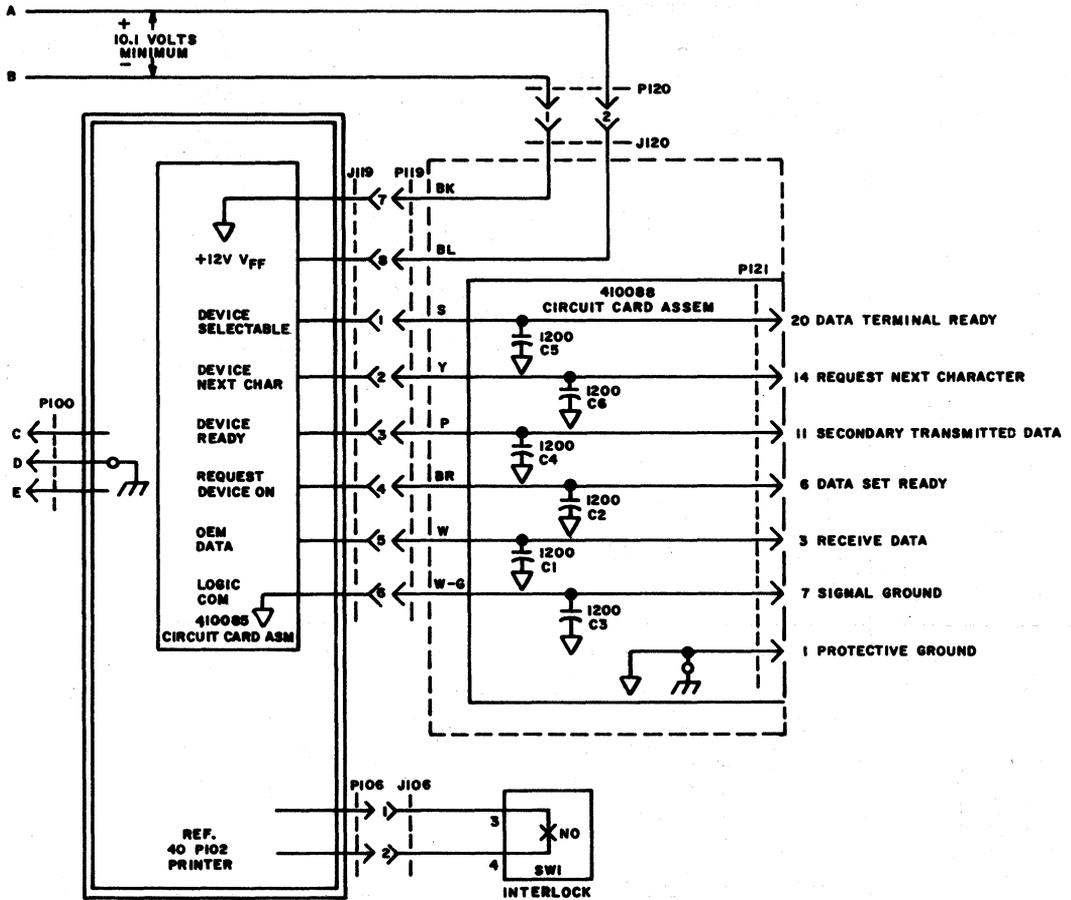


Fig. 19—40CAB371/AC Friction Feed Cabinet With Simplified EIA-Like Interface (Contd)

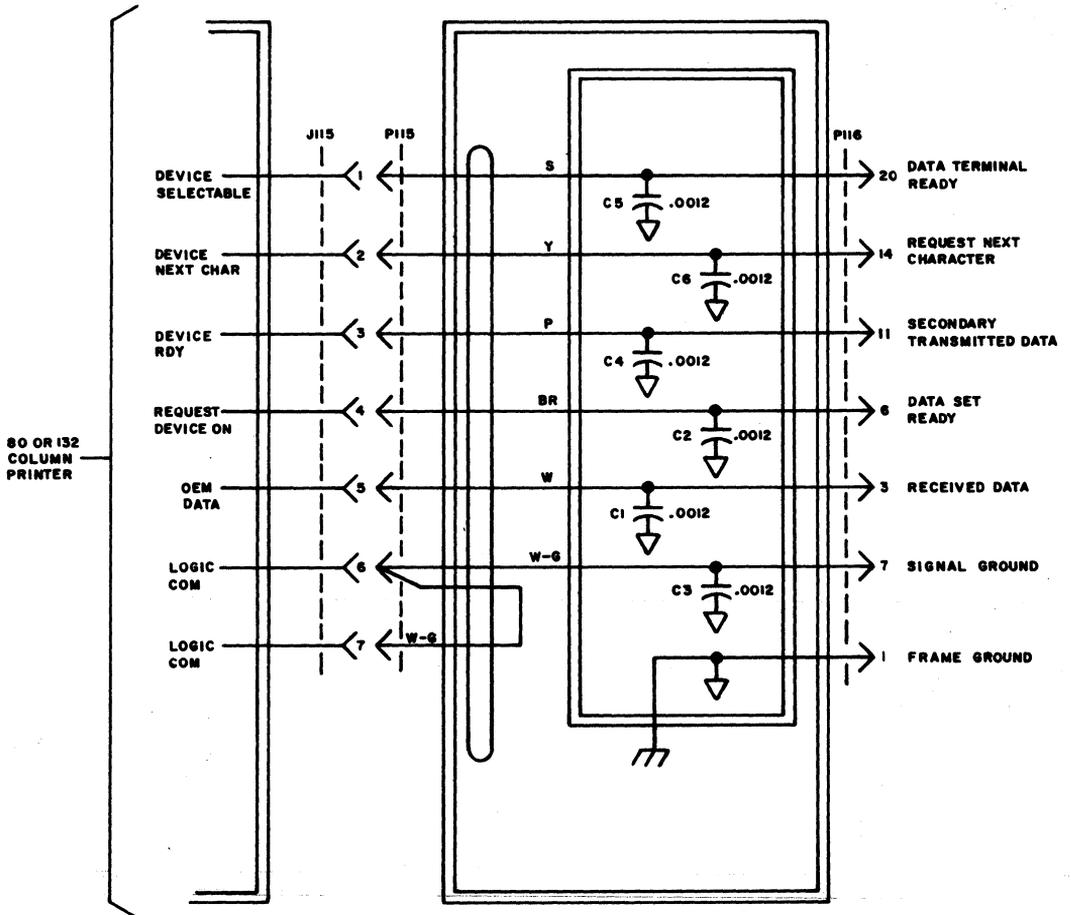


Fig. 20—Model 40 Tractor Feed Cabinet Simplified EIA-Like Interface (80- and 132-Column Printer and Forms Access Cabinet)

5. CABLE ROUTING

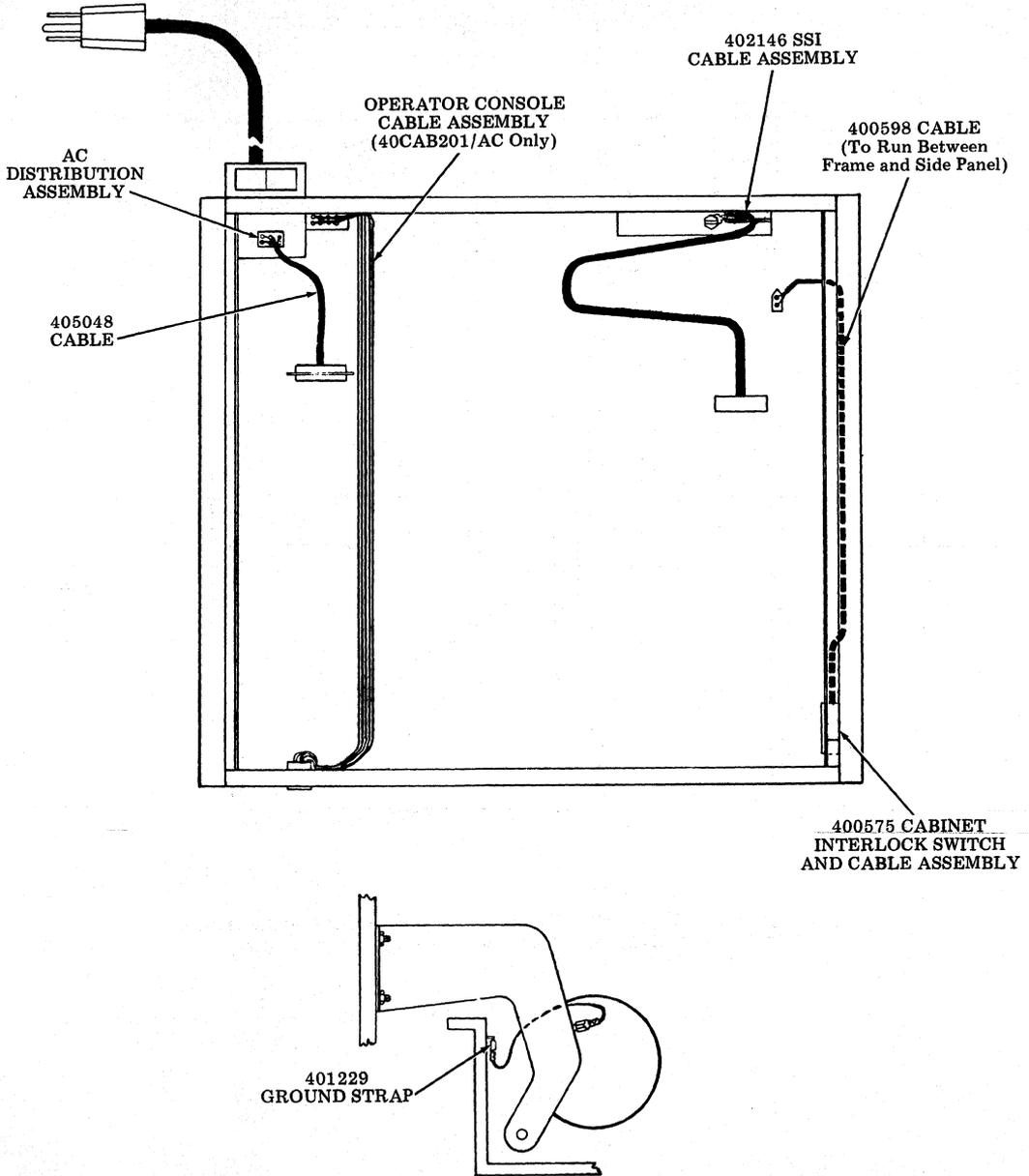


Fig. 21—40CAB201/AA, AC, ZZ Friction Feed Printer Cabinet

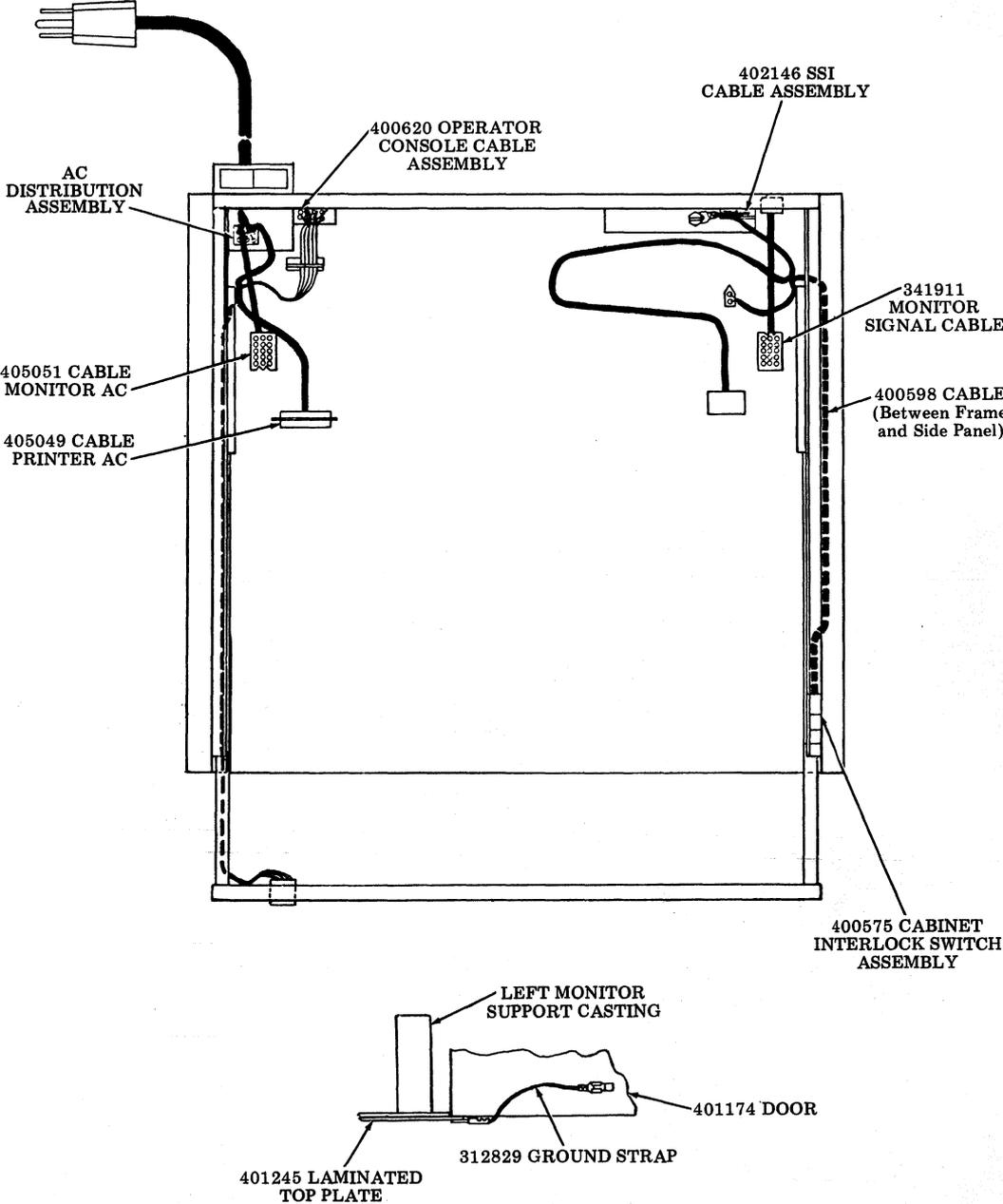


Fig. 22—40CAB251/AA Friction Feed Printer Cabinet Under Monitor

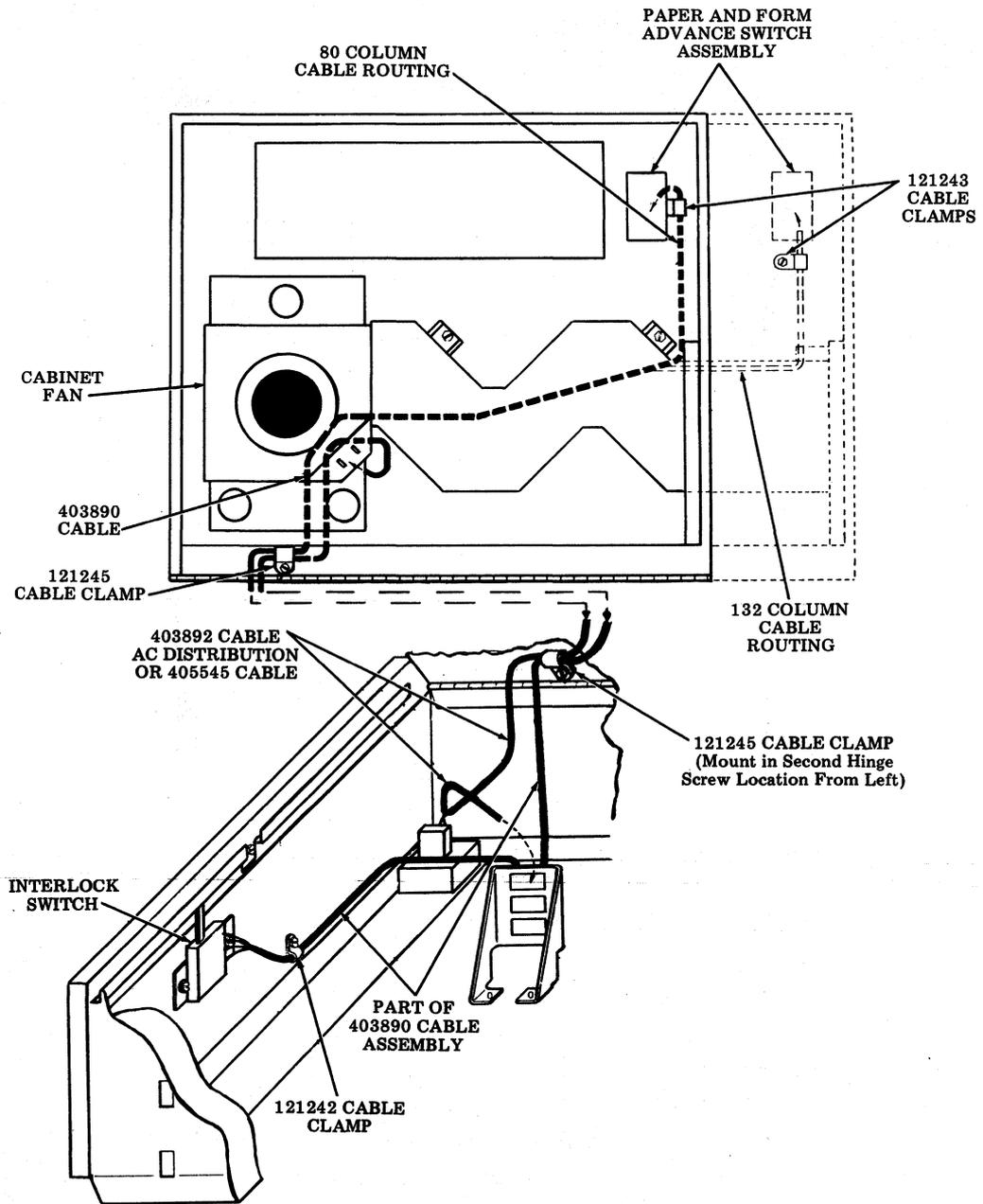


Fig. 23-40CAB351 and 40CAB353 Tractor Feed Cabinet Basic Cabling

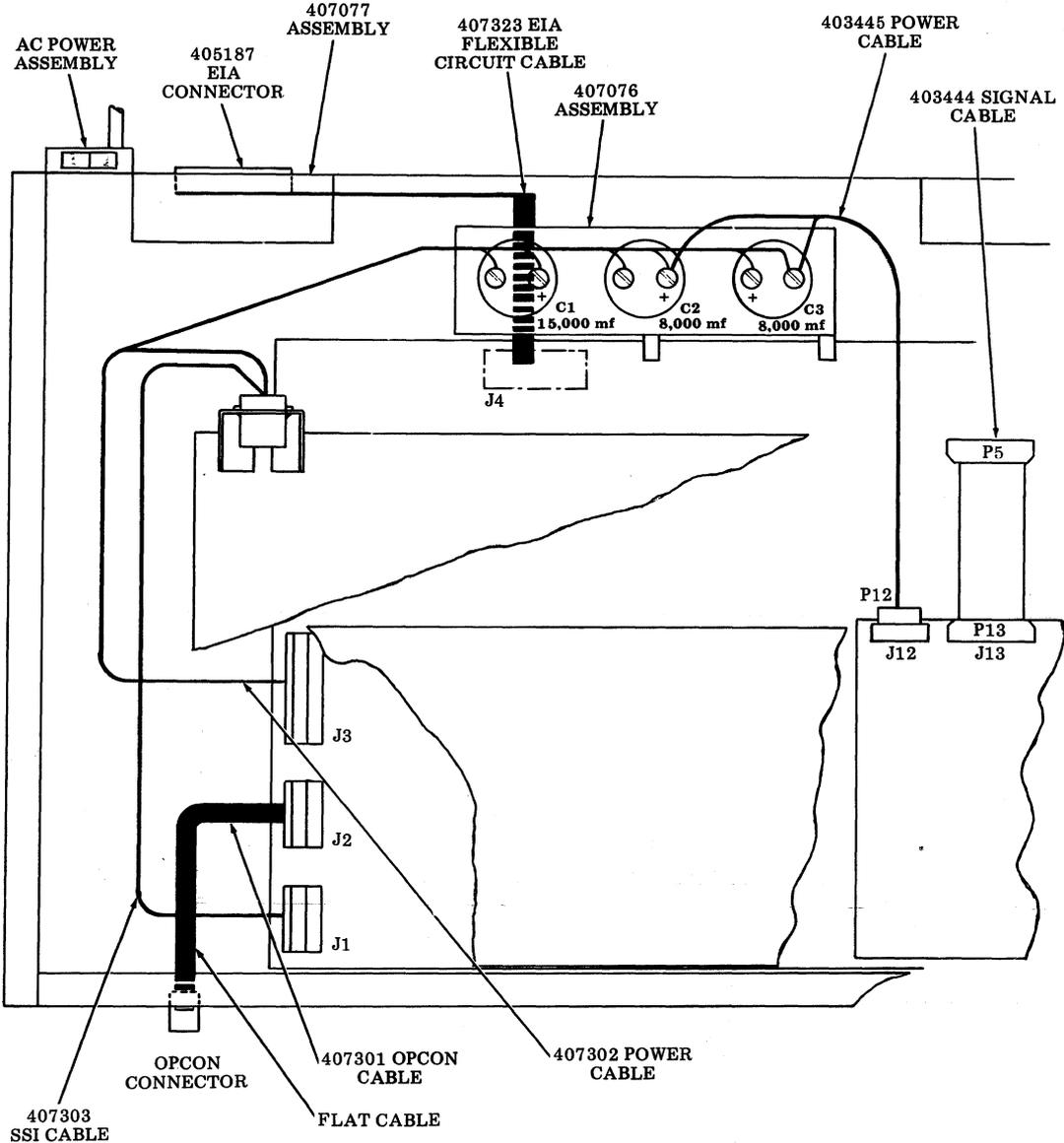


Fig. 24—40CAB351 or 40CAB353 Tractor Feed Cabinet With Provision for Integrated Controller (Used With 40C303AA/001 Controller)

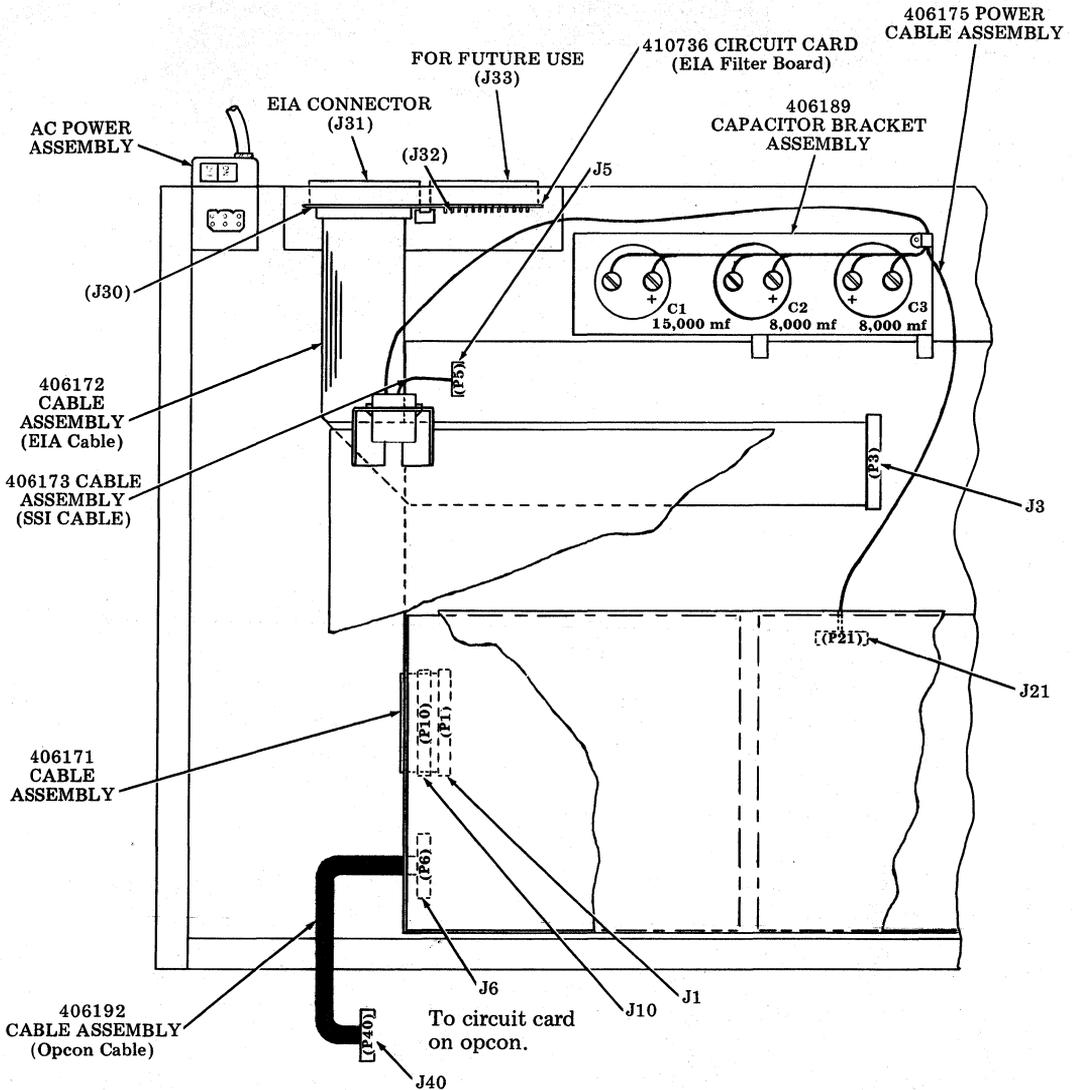


Fig. 25—40CAB351 or 40CAB353 Tractor Feed Cabinet With Provision for Integrated Controller and Dual EIA Interface (Use With 40C303/AC or 40C303/AD Controller)

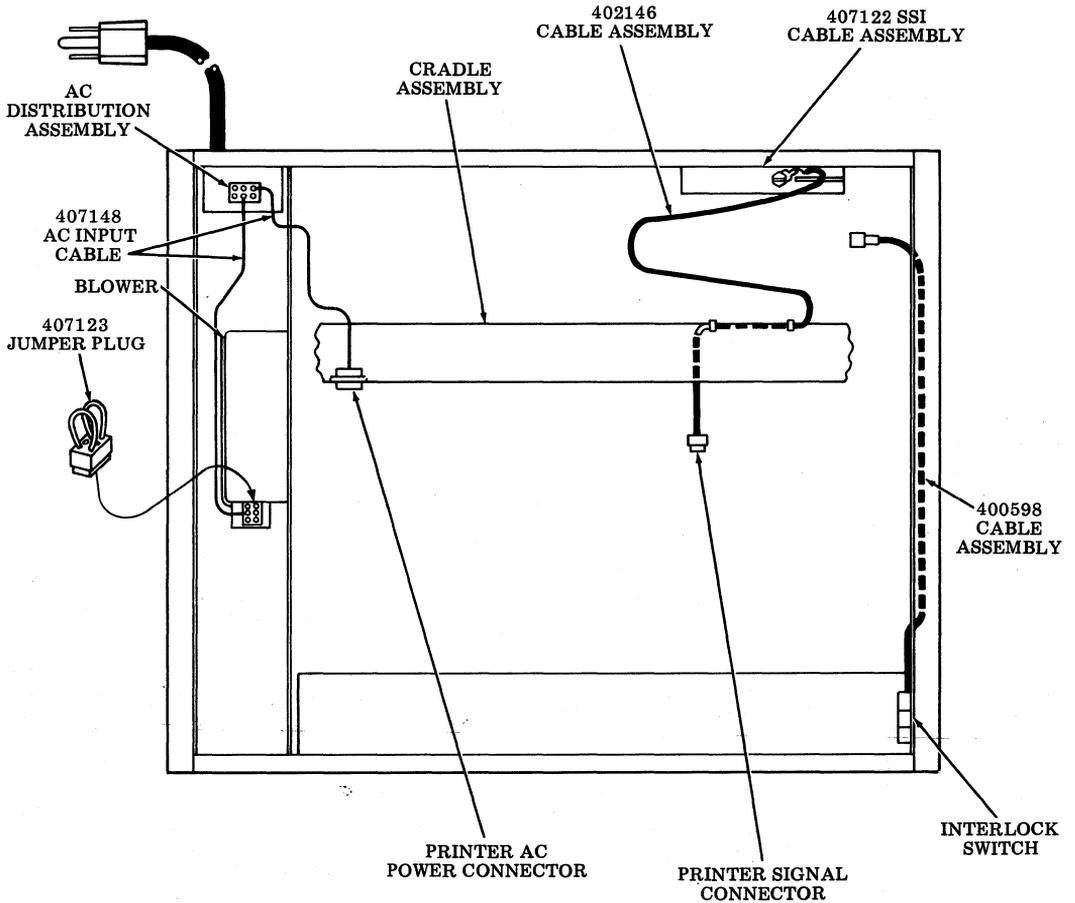


Fig. 26—40CAB371/AA Friction Feed Printer Cabinet

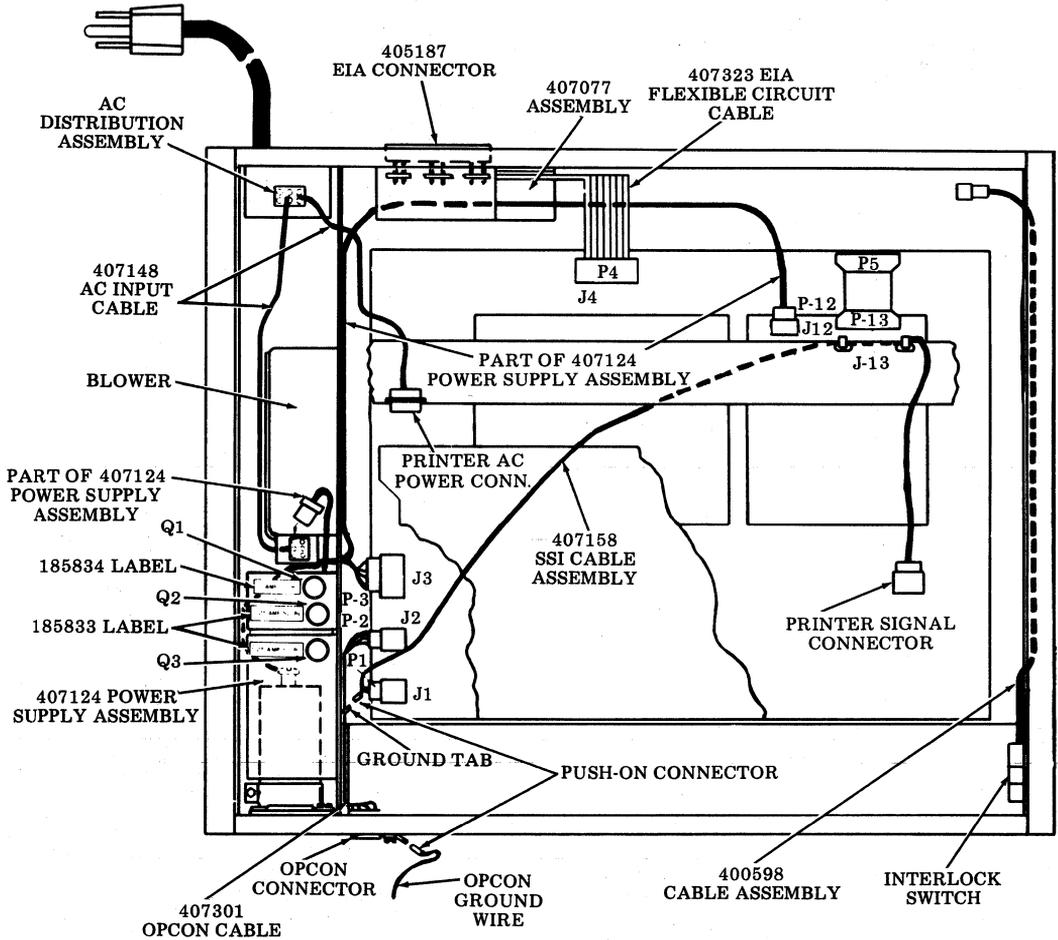


Fig. 27—40CAB371/AB Friction Feed Printer Cabinet With Provision for Integrated Controller (Use With 40C303AA/001 Controller)

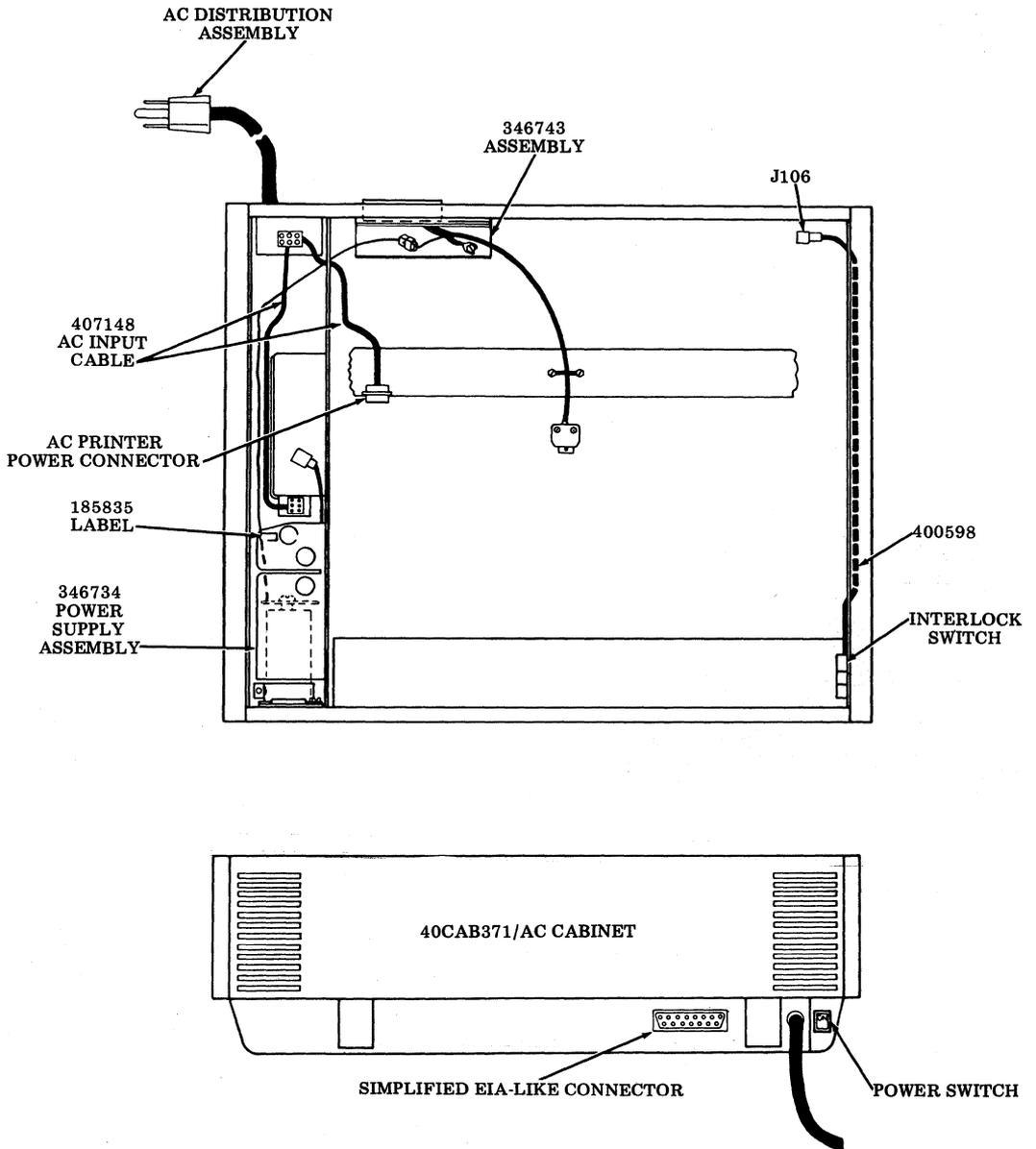


Fig. 28—40CAB371/AC Friction Feed Cabinet With Simplified EIA-Like Interface

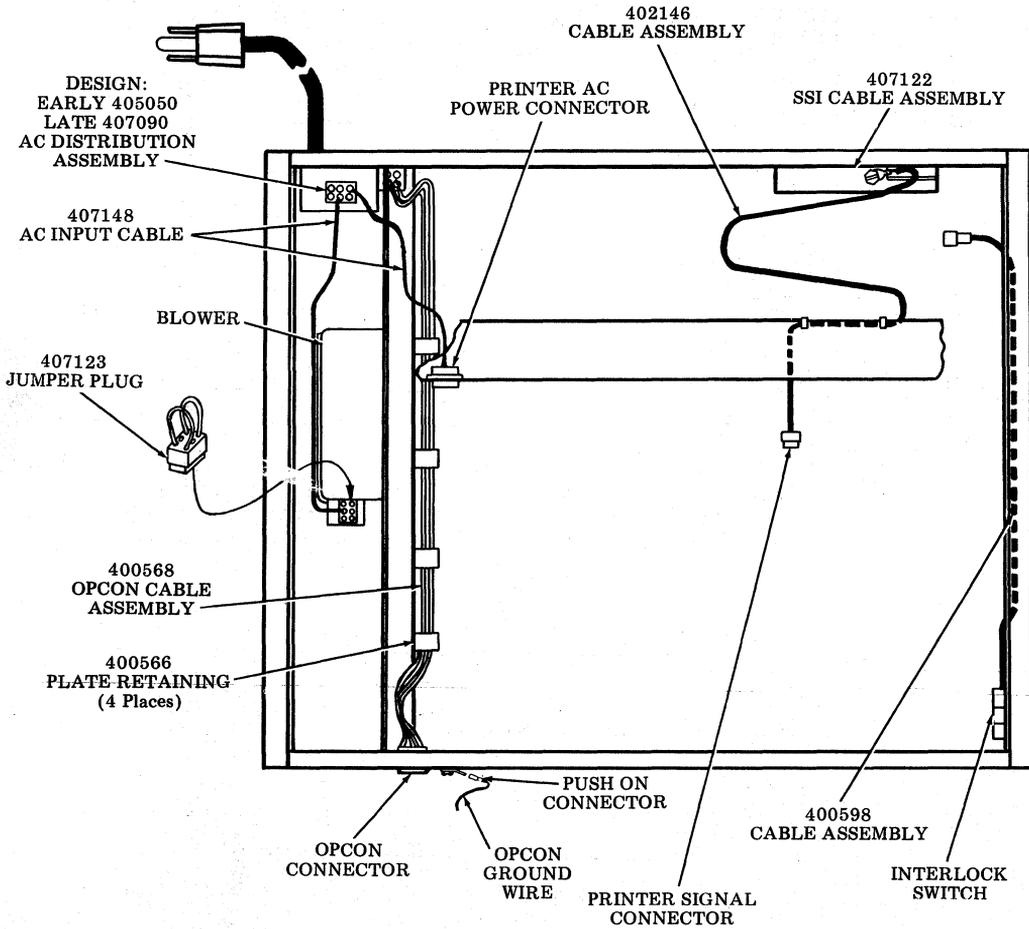


Fig. 29—40CAB371/ZZ Friction Feed Printer Cabinet With 407102 Modification Kit

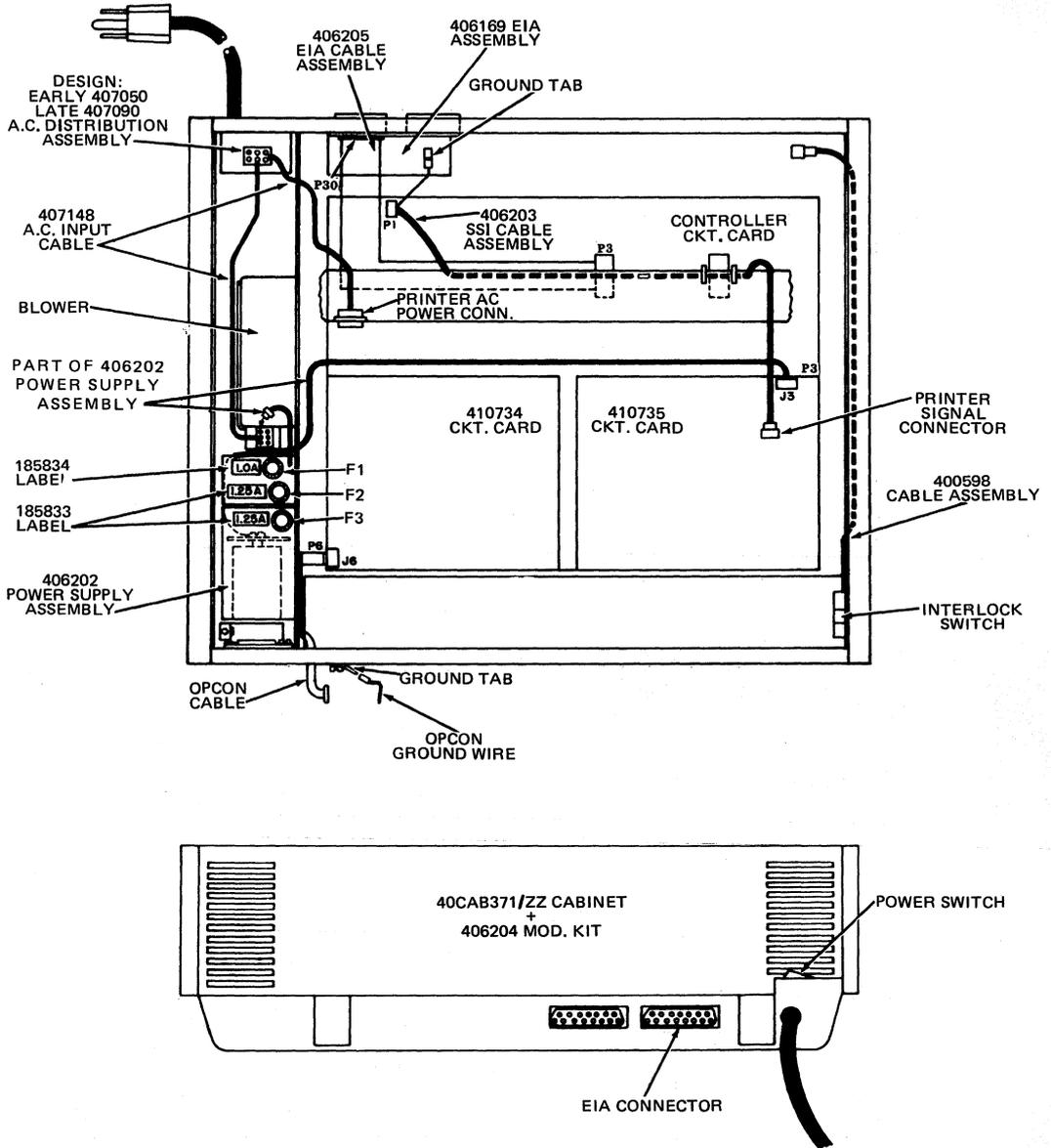


Fig. 30—40CAB371/ZZ Friction Feed Printer Cabinet With 406204 Modification Kit (Use With 40C303/AC or AD Controller)

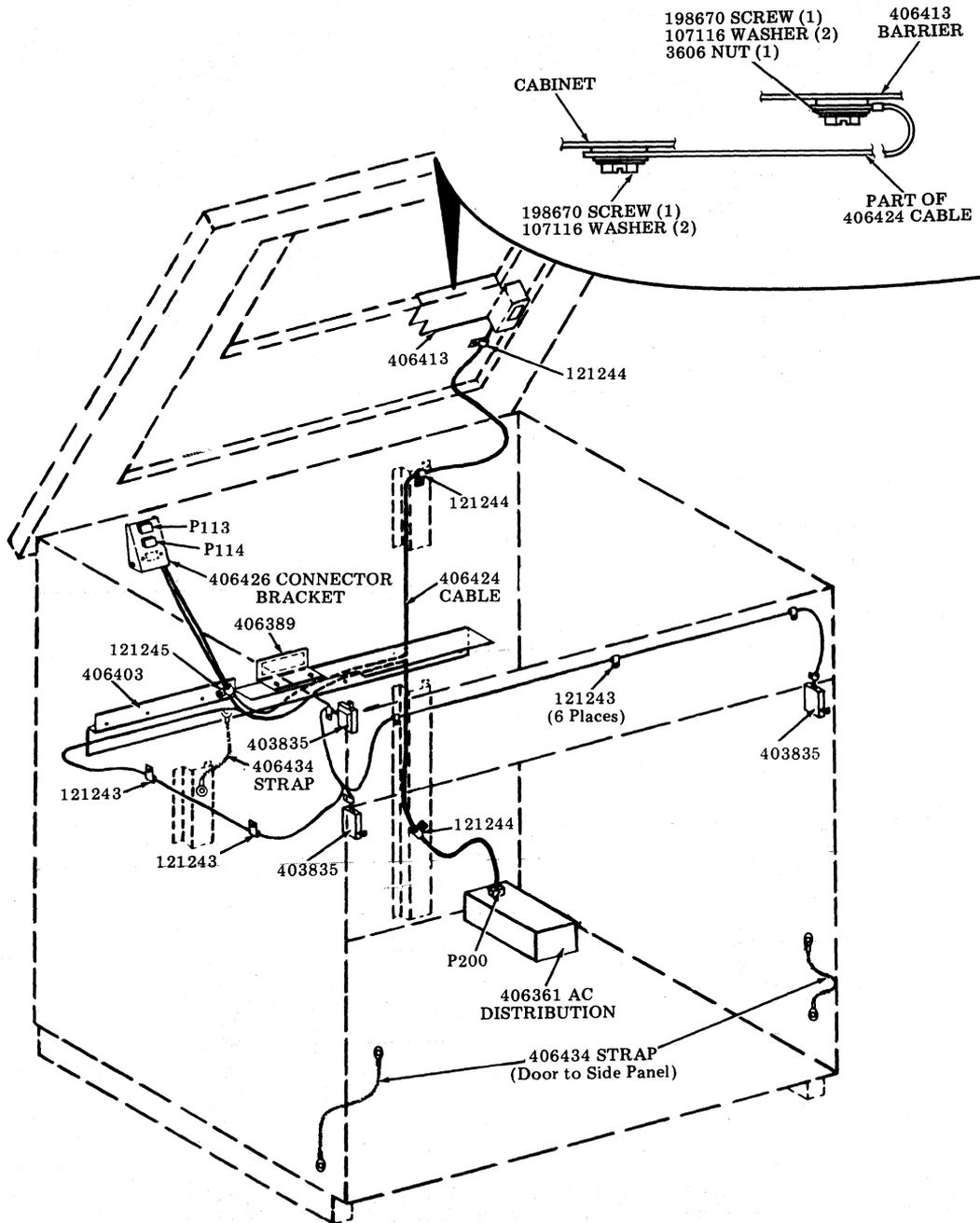


Fig. 31—40CAB302 Forms Access Printer Cabinet Basic Wiring (Early Design)

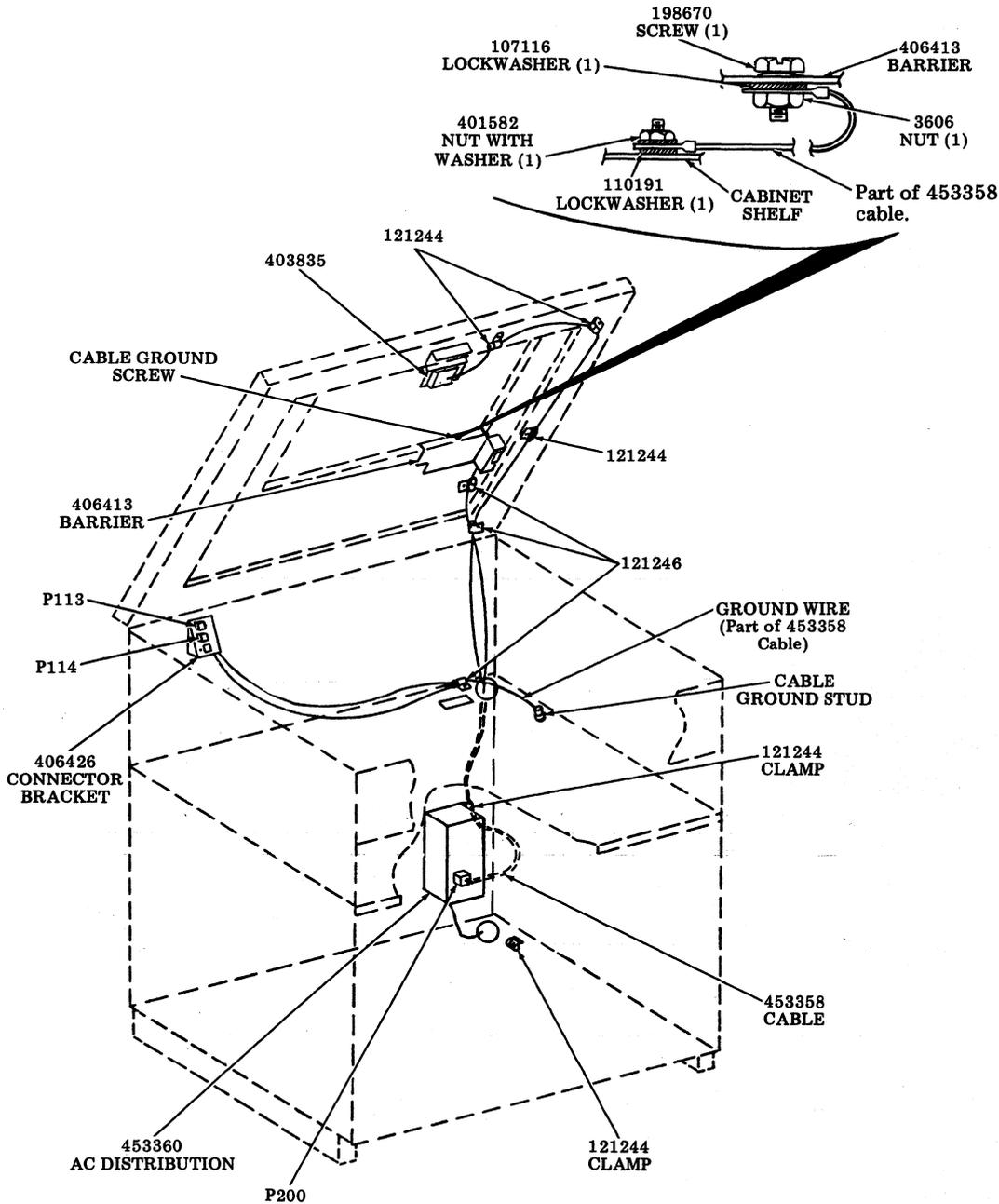
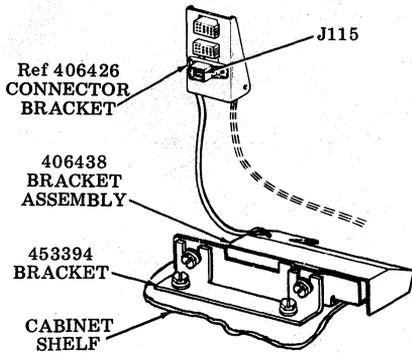
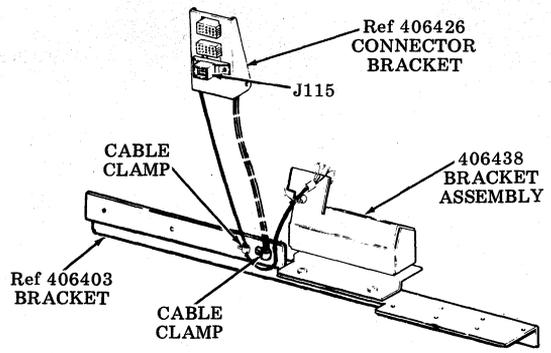


Fig. 32—40CAB302 Forms Access Printer Cabinet Basic Wiring (Late Design)

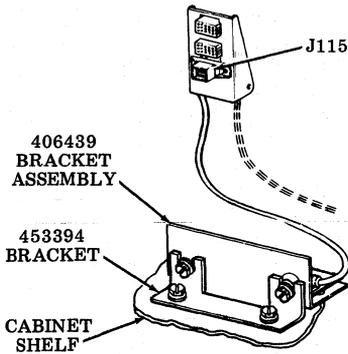


Late Design Cabinet

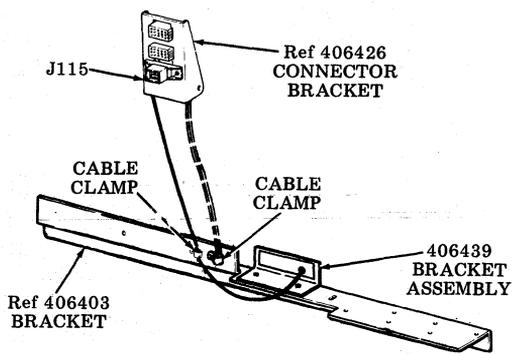


Early Design Cabinet

Fig. 33—40CAB302 Forms Access Printer Cabinet With SSI Interface



Late Design Cabinet



Early Design Cabinet

Fig. 34—40CAB302 Forms Access Cabinet With Simplified EIA-Like Interface

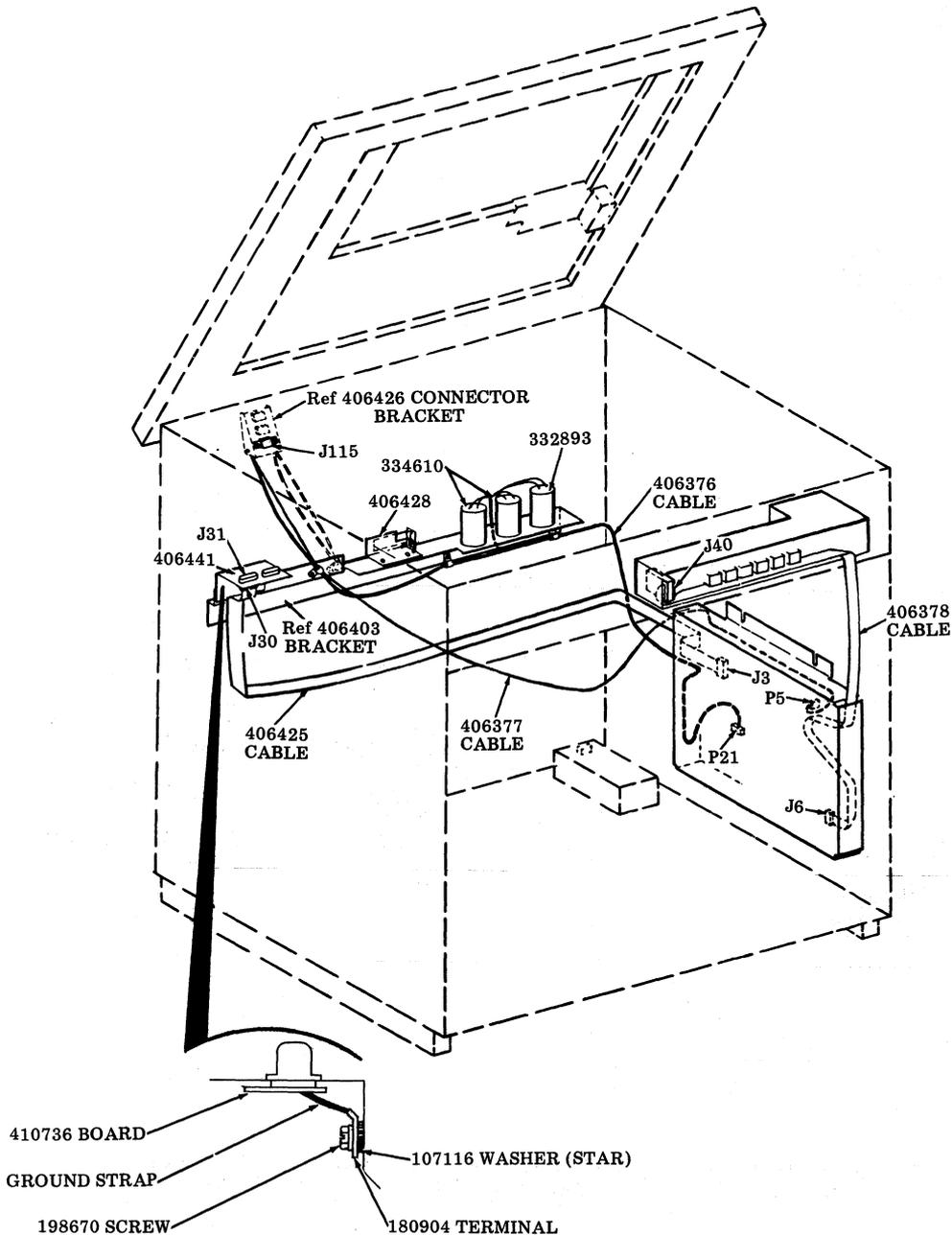


Fig. 35—40CAB302 Forms Access Printer Cabinet With Provisions for Integrated Controller (Used With 40C303/AC or 40C303/AD Controller — Early Design)

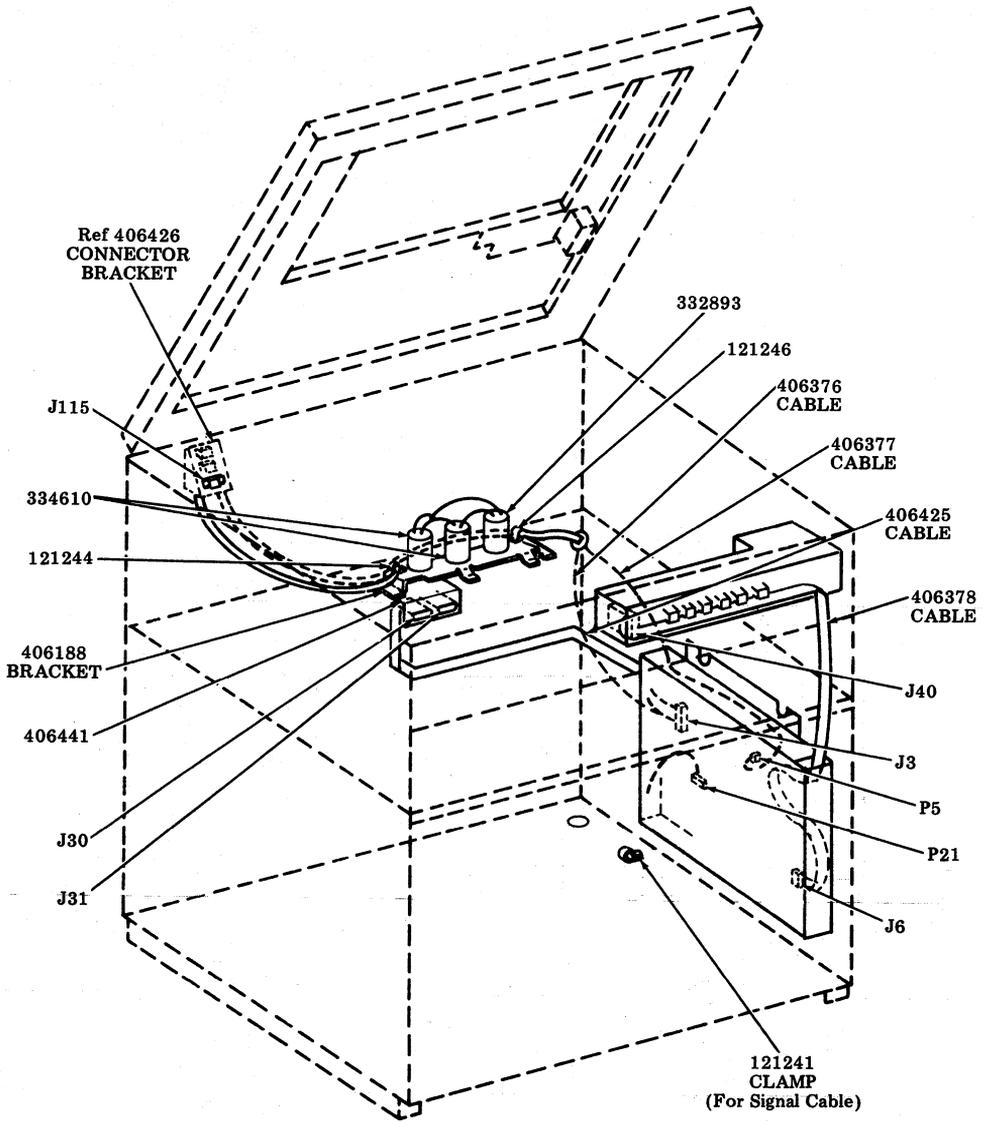


Fig. 36—40CAB302 Forms Access Printer Cabinet With Provisions for Integrated Controller (Used With 40C303/AC or 40C303/AD Controller — Late Design)

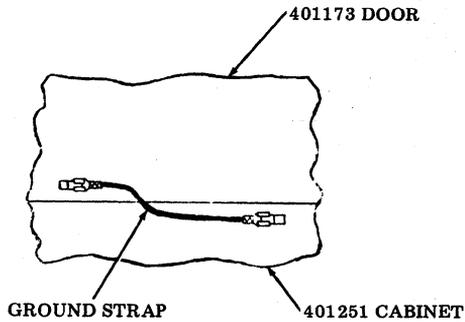
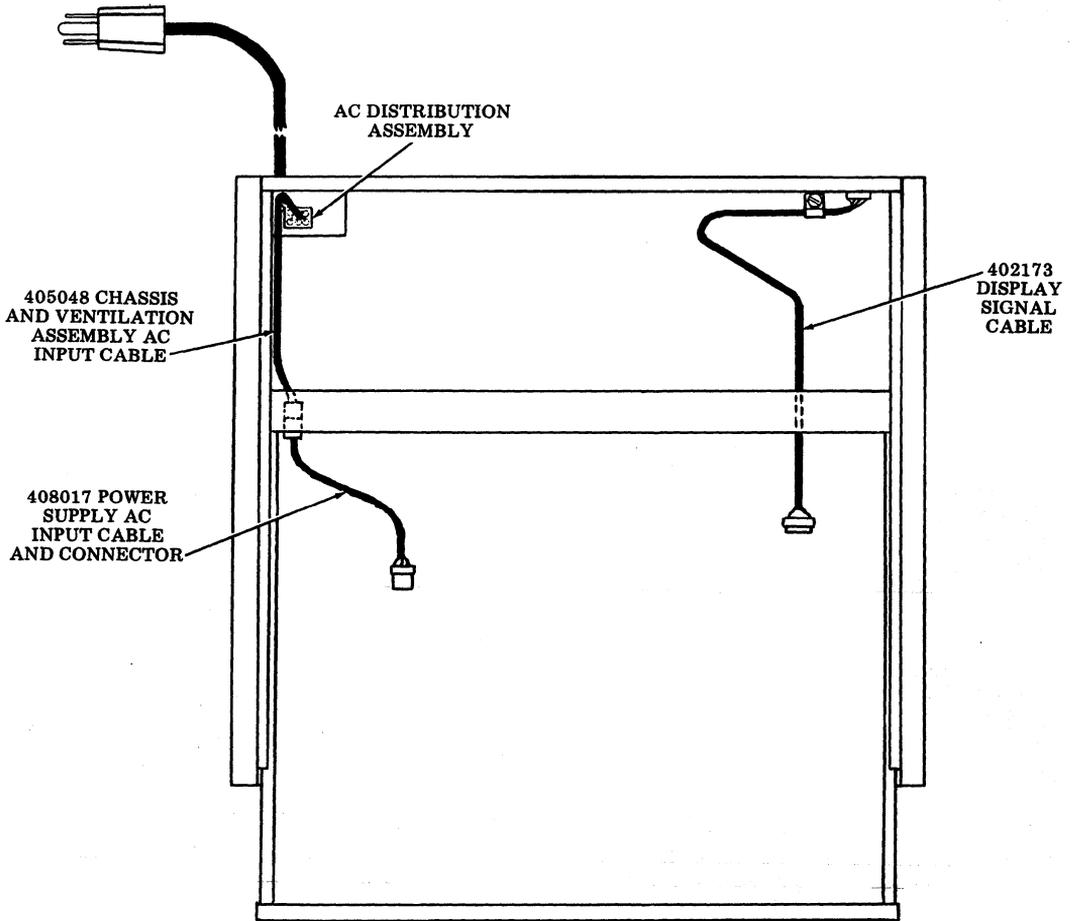


Fig. 37-40CAB201/AB Logic Cabinet

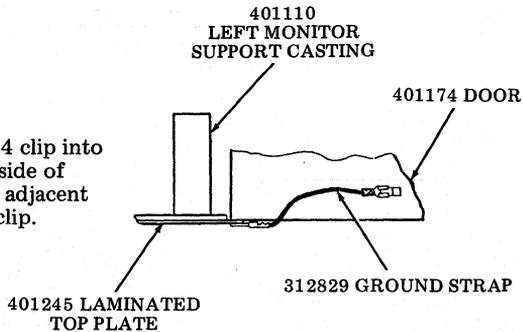
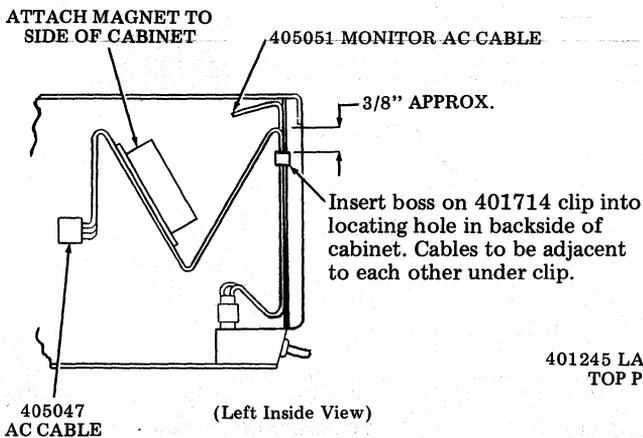
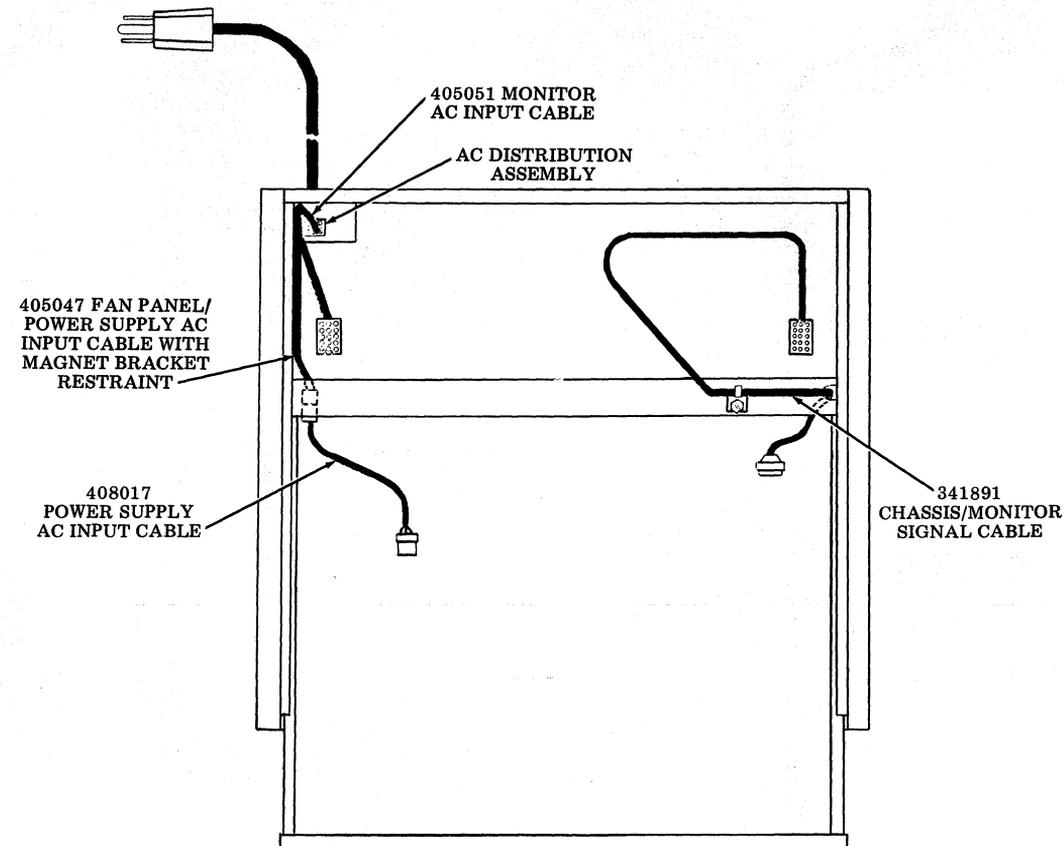


Fig. 38—40CAB251/AB Keyboard Display Cabinet

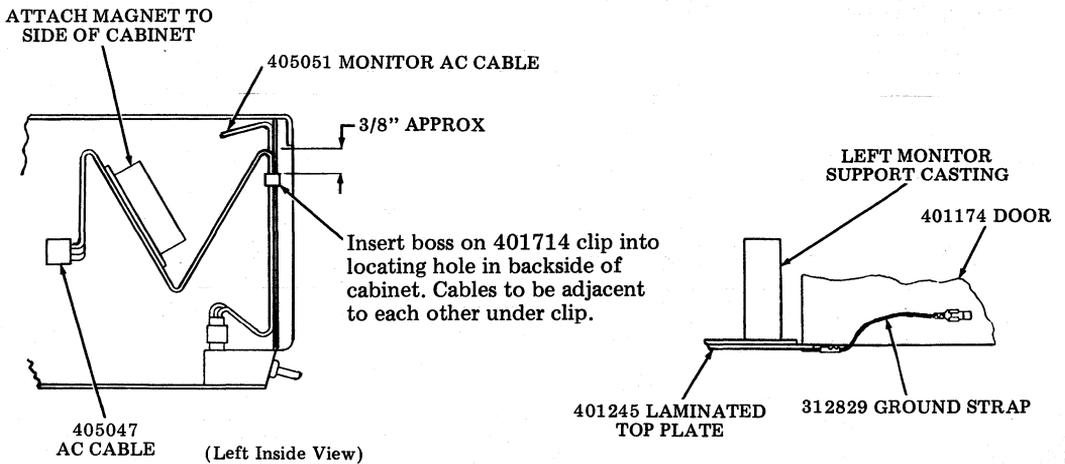
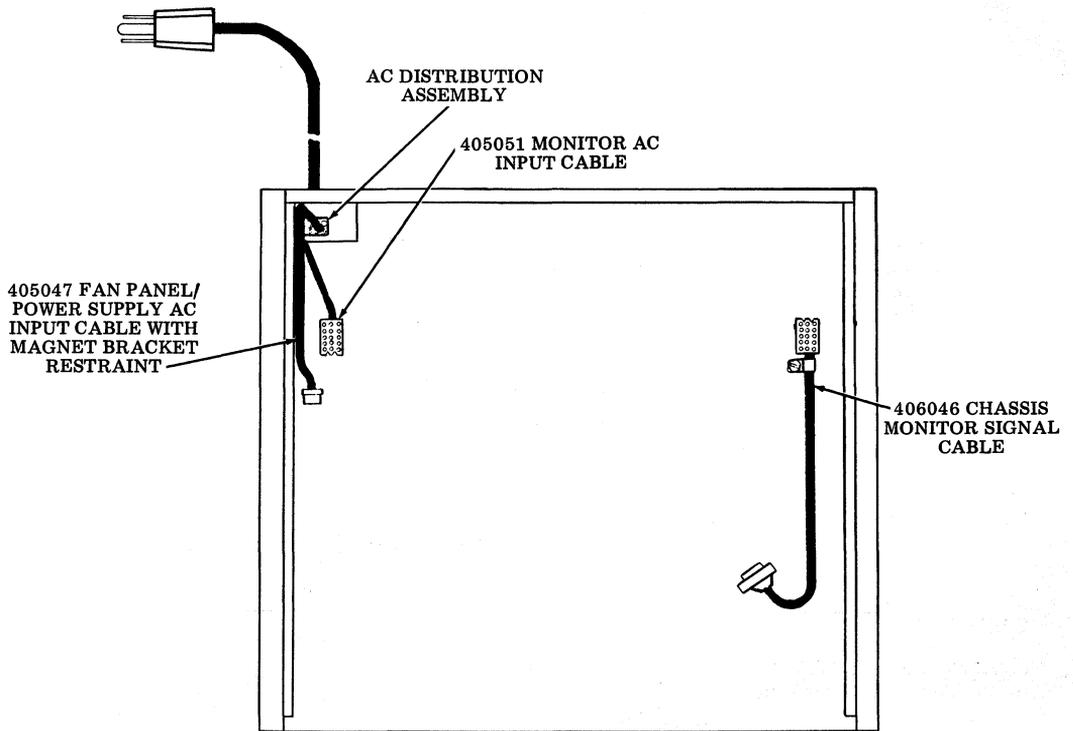


Fig. 39—40CAB251/AE Keyboard Display Cabinet

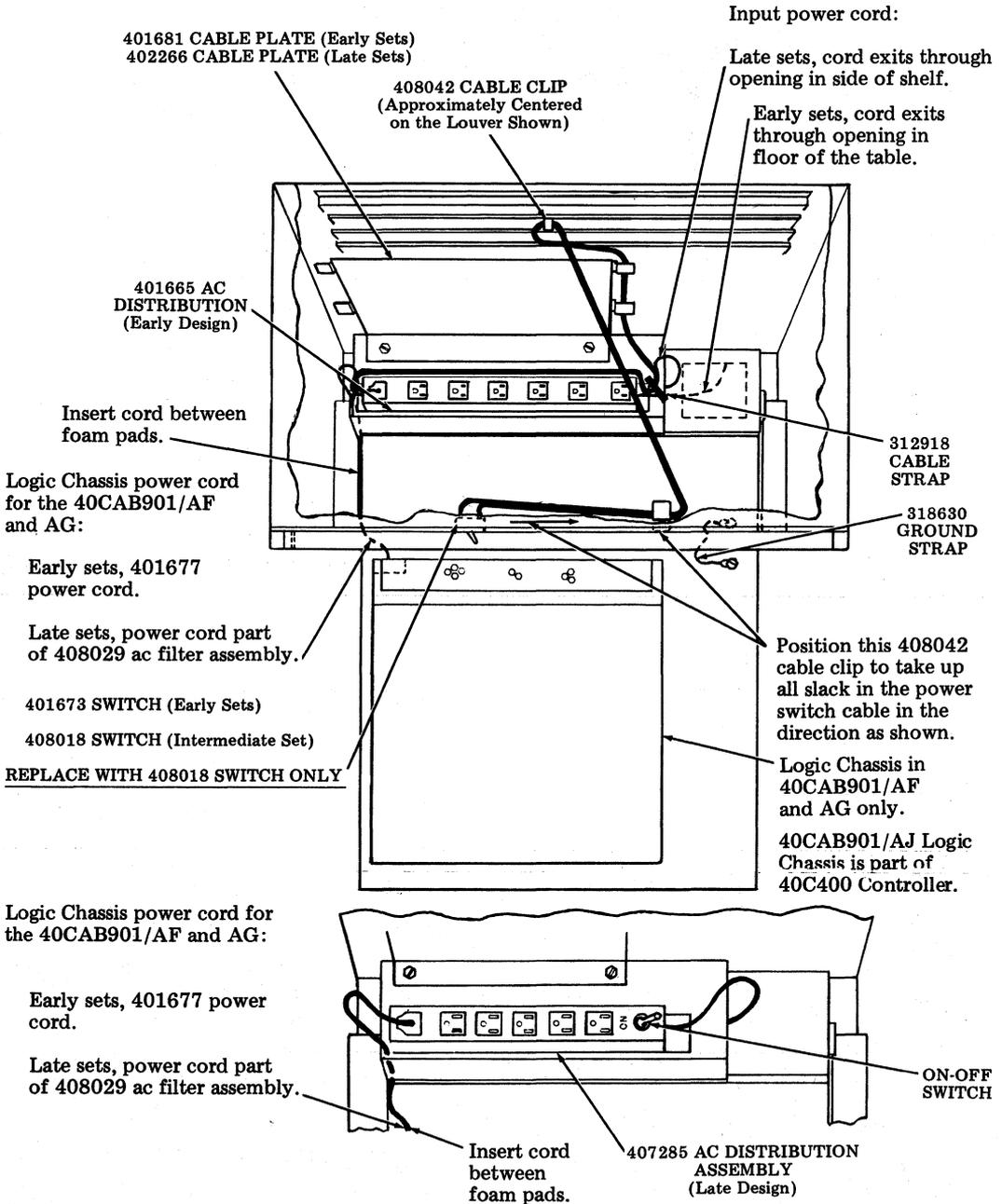


Fig. 40—40CAB901/AF, AG and AJ

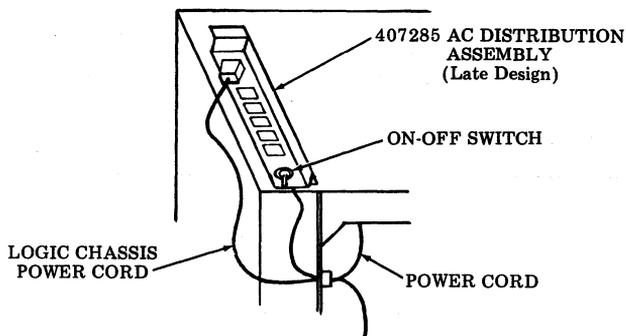
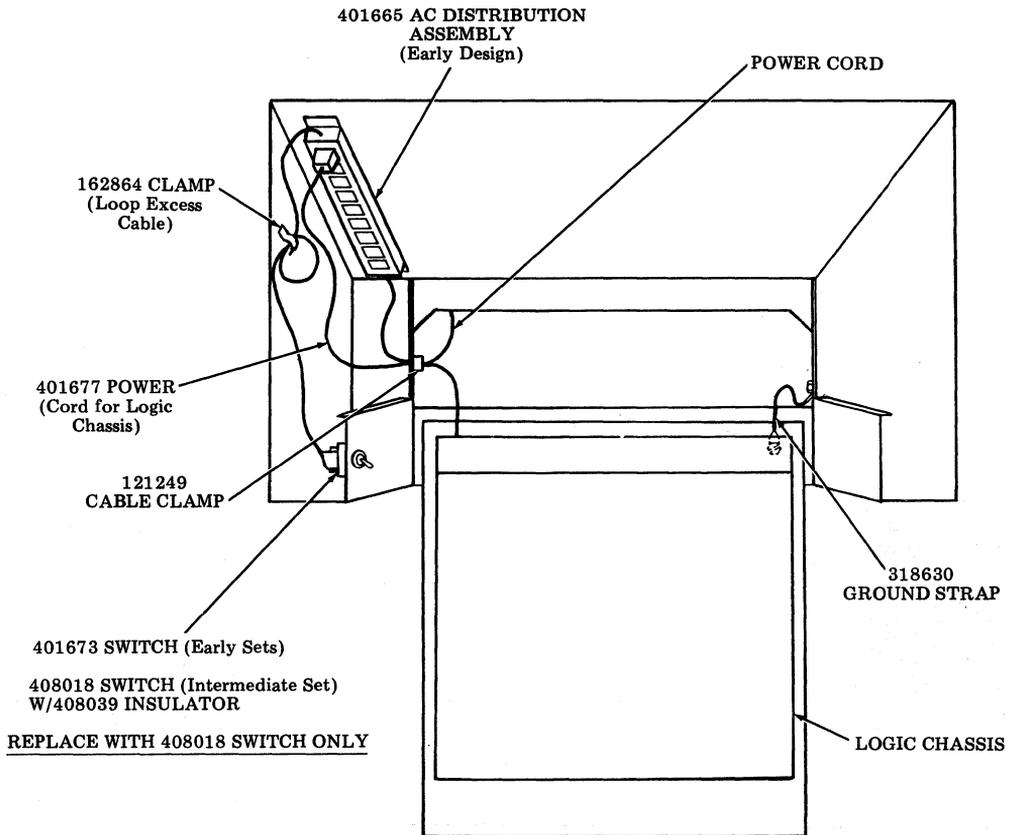


Fig. 41-40CAB902/AB

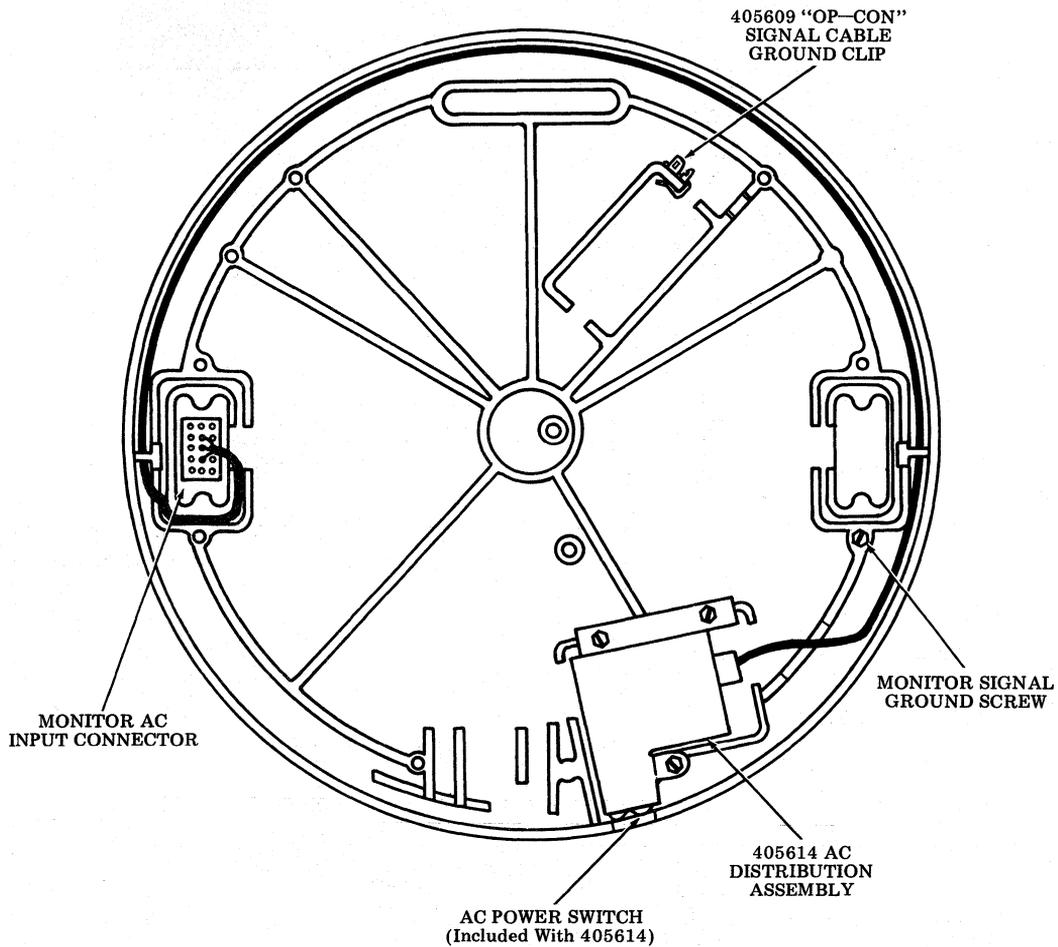
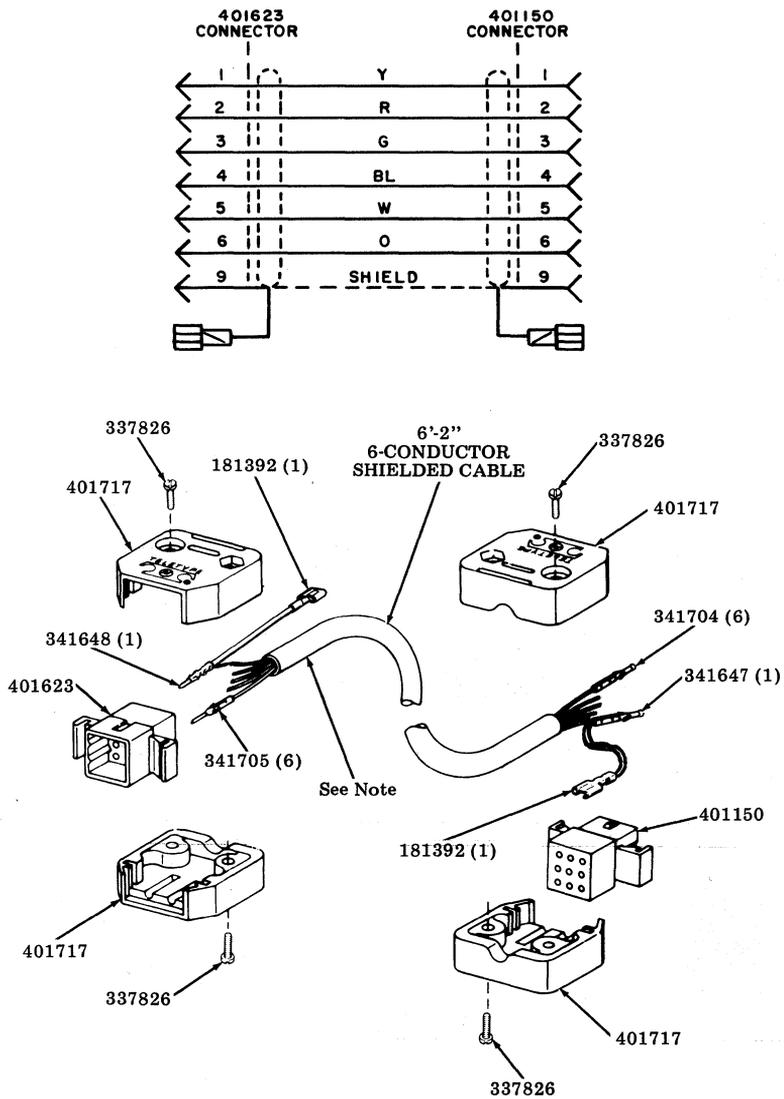


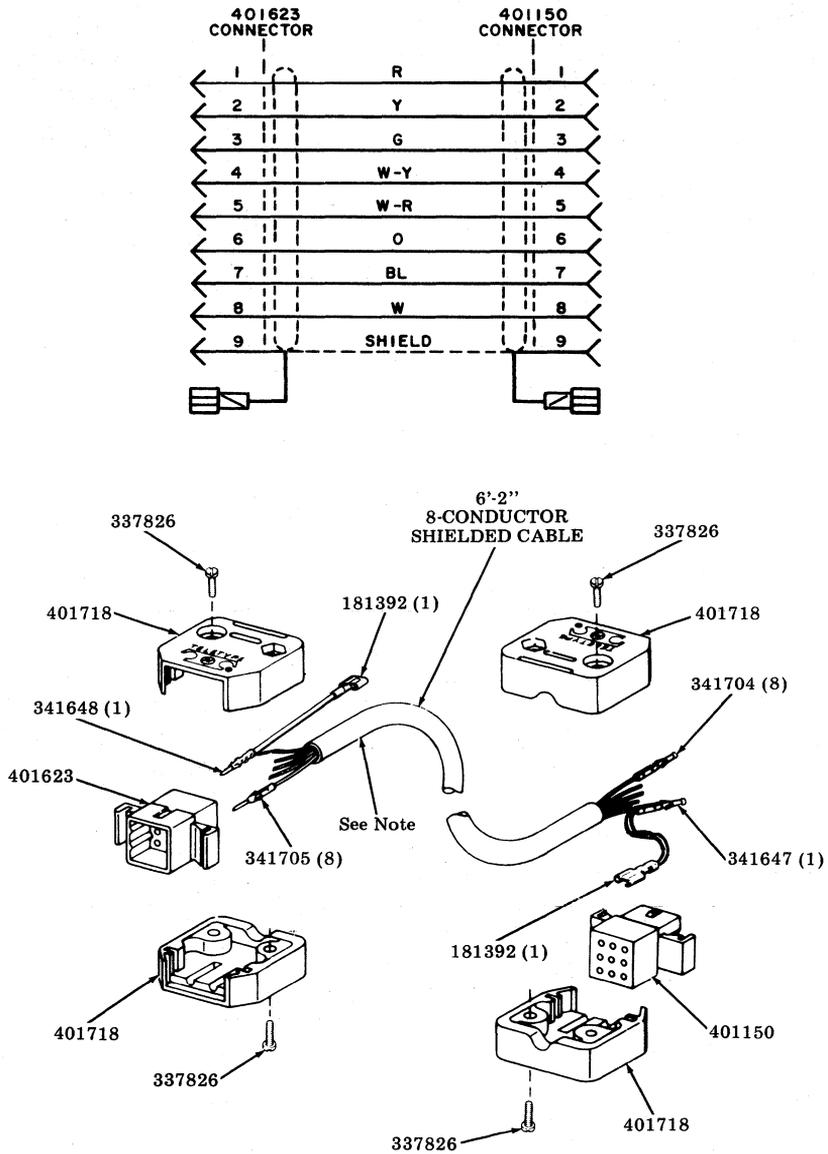
Fig. 42-40BSE101 Circular Monitor Base

6. ACTUAL WIRING



Note: Cable marker at each end identifies number of cable.

Fig. 43-401640 Printer Extension Cable Assembly (ROP Terminal)



Note: Cable marker at each end identifies number of cable.

Fig. 44-401641 Opcon Extension Cable Assembly

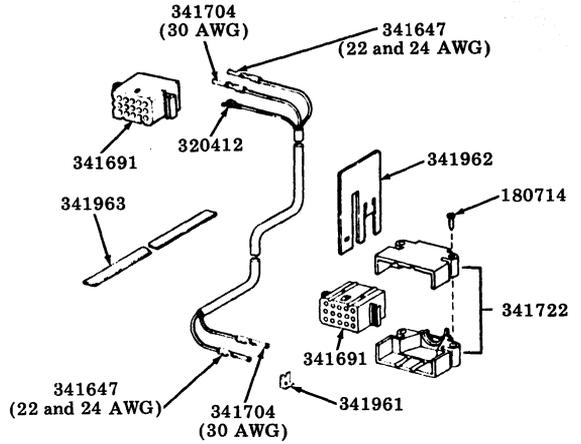
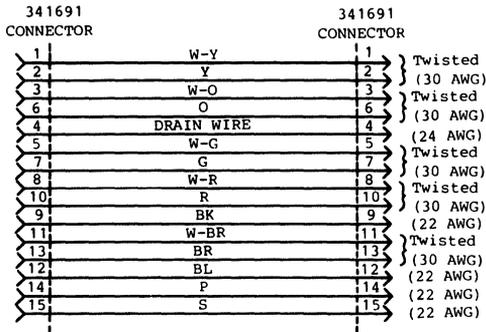


Fig. 45—341891 Monitor Cable — Logic Cabinet (Right Side)

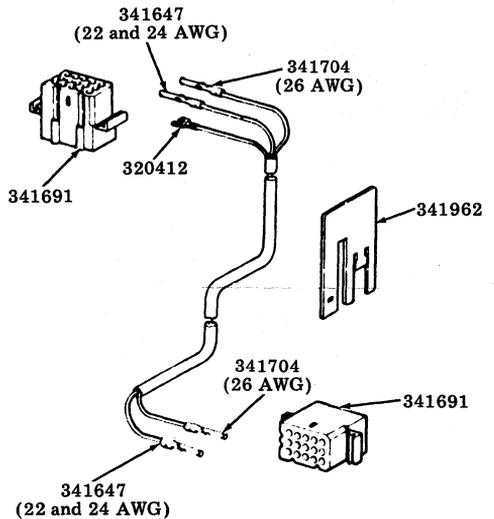
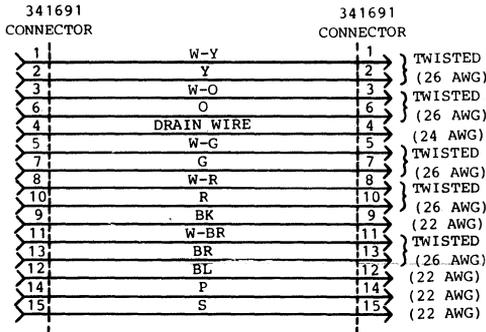


Fig. 46—341911 Monitor Cable — Printer Cabinet (Right Side)

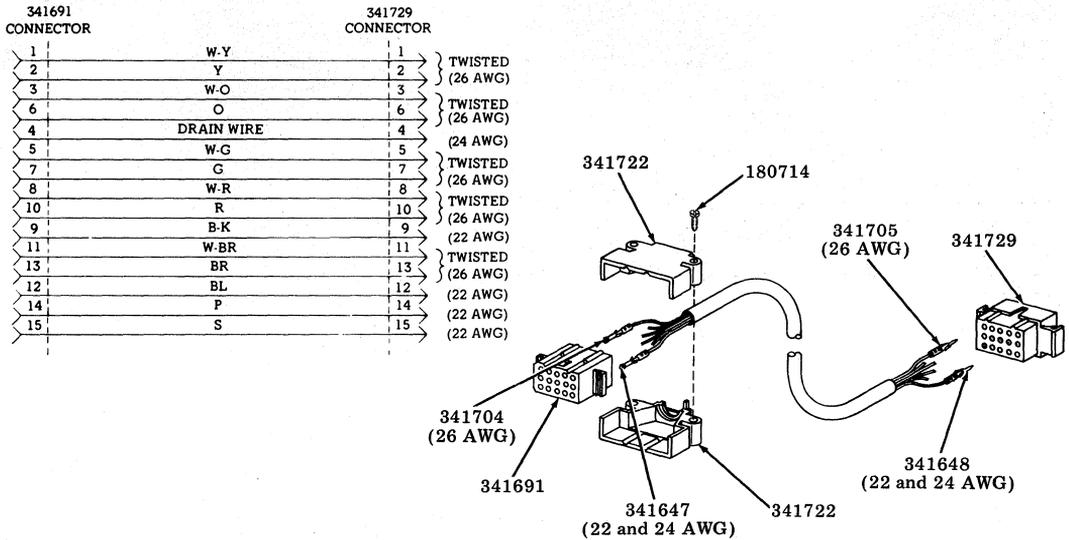
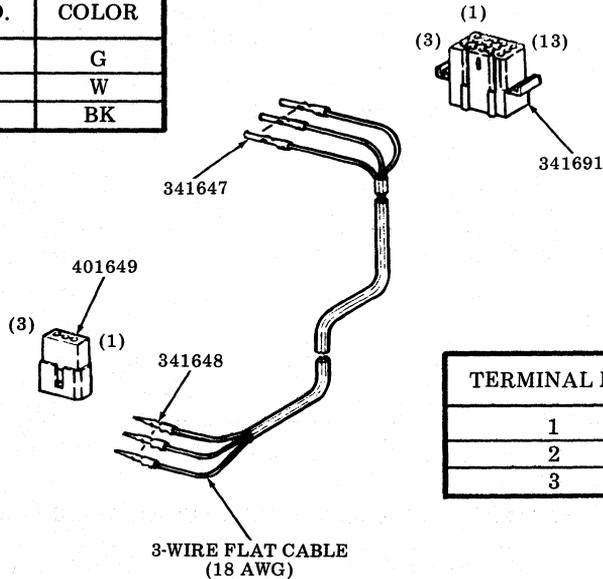


Fig. 47—402173 Monitor Cable (Logic Cabinet Adjacent)

TERMINAL NO.	COLOR
5	G
8	W
11	BK



TERMINAL NO.	COLOR
1	BK
2	G
3	W

Fig. 48--401633 Monitor Cable Assembly (Left Side)

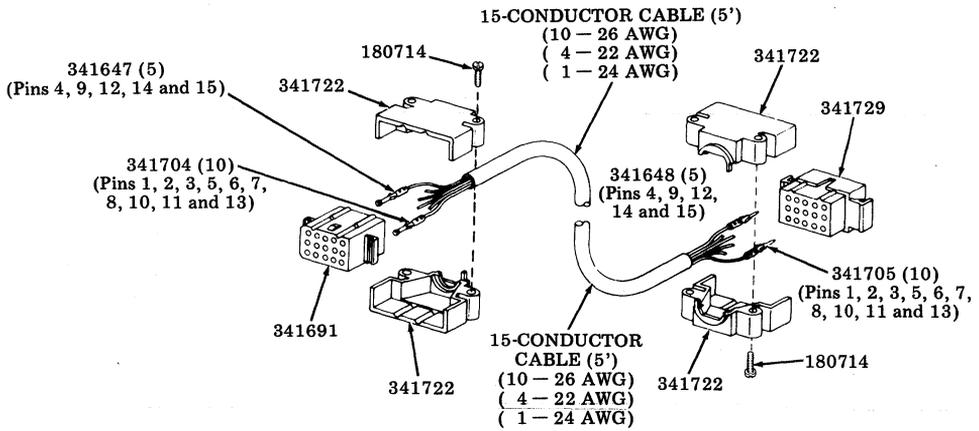
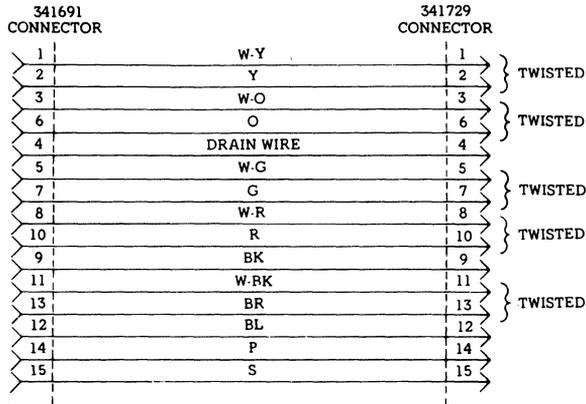


Fig. 49—341893 Monitor Extension Cable Assembly

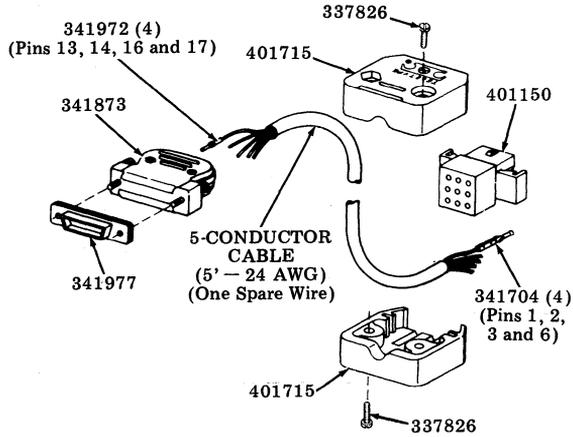
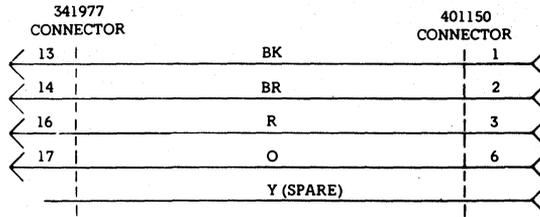
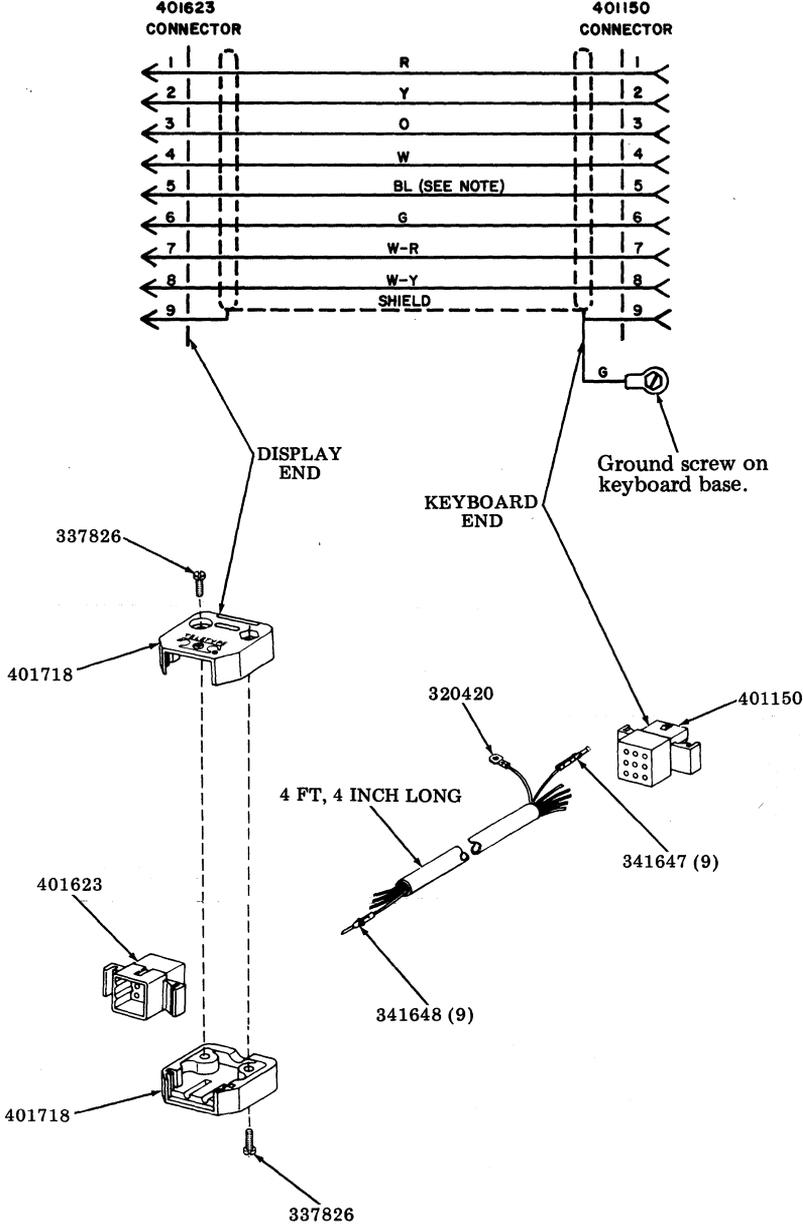


Fig. 50—341895 Printer Extension Cable Assembly (KDP Terminal)



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

Fig. 51-346333 Keyboard Base Cable Assembly (40BSE201 and 40BSE202)

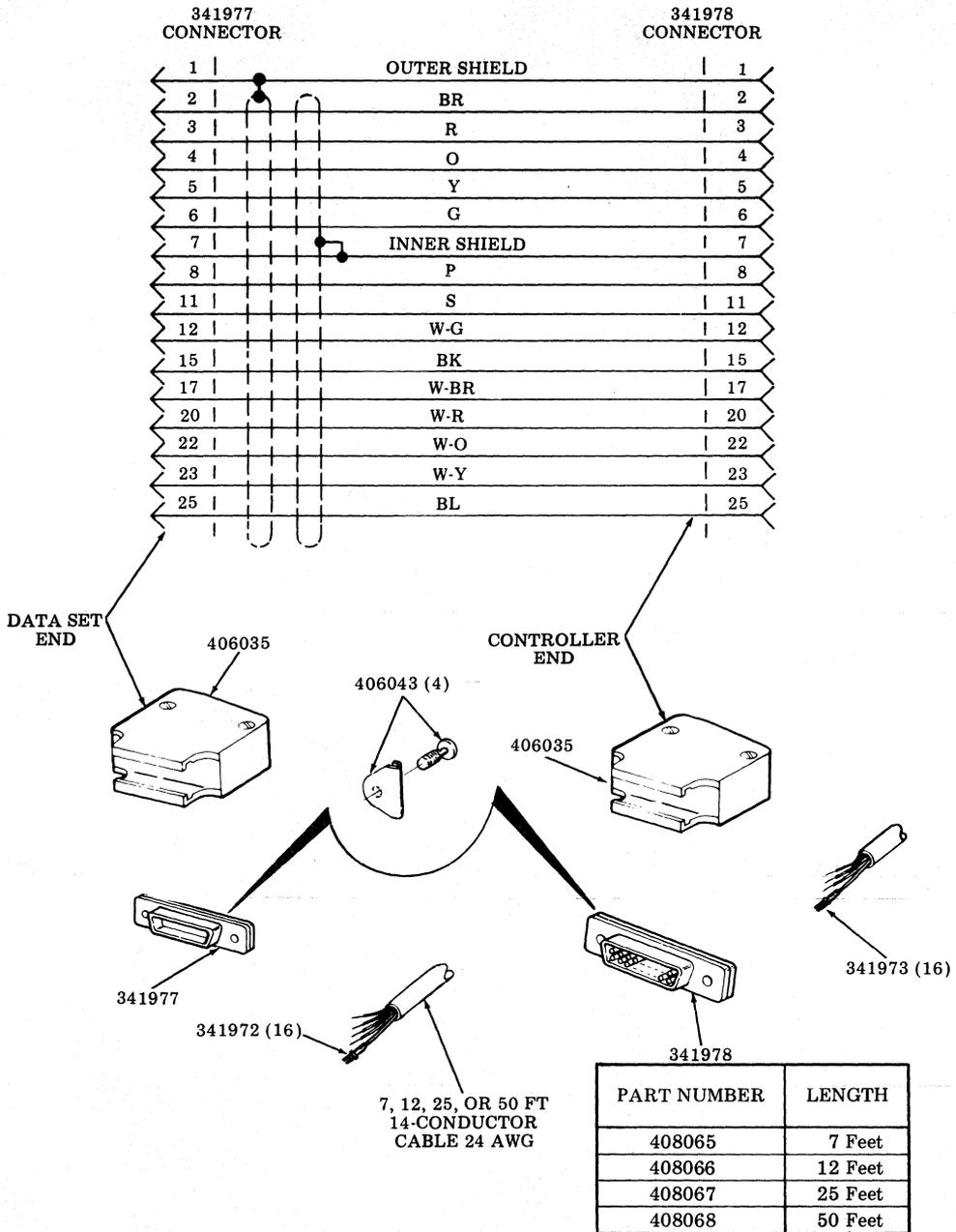


Fig. 52—Data Set Extension Cable Assemblies