

A16

POWER DISTRIBUTION ASSEMBLIES

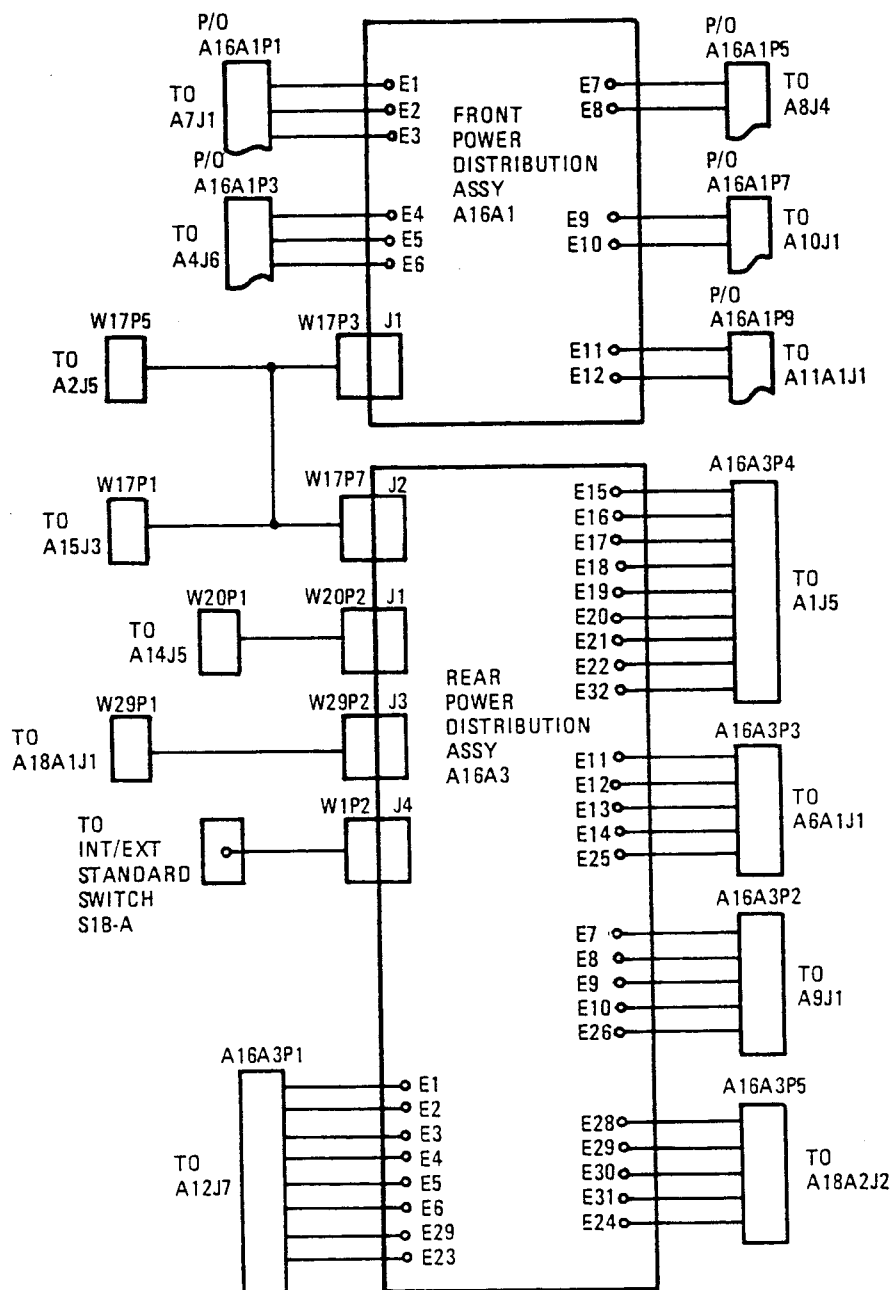


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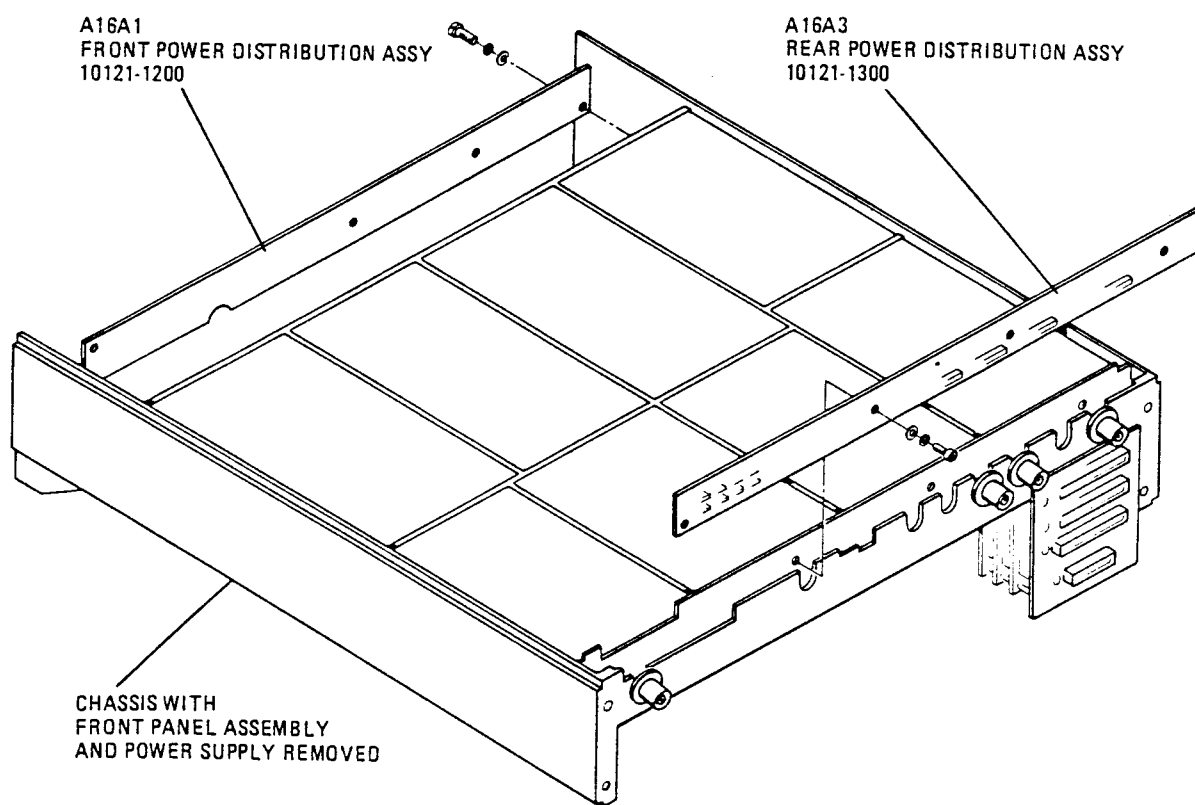
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POWER DISTRIBUTION ASSEMBLIES A16

1. GENERAL INFORMATION

Power distribution assemblies A16A1 and A16A3 are used to interface the power supply with other assemblies in the exciter. The two boards also distribute nonpower signals. Front Power Distribution Assembly A16A1 is located behind the front panel on the bottom side of the main chassis. Rear Power Distribution Assembly A16A3 is mounted on the bottom side of the main chassis inside the rear panel assembly. Figure 1 shows the locations of the two assemblies. The assemblies provide some filtering and have several connectors for making connections to other assemblies.



1310-041

Figure 1. Power Distribution Board Location

2. INTERCONNECTIONS

Connections with the power supply and the other assemblies are shown in figure 6 of the Major Assembly Location subsection.

3. PARTS LISTS, COMPONENT LOCATIONS, AND SCHEMATIC DIAGRAMS

Table 1 lists components of the A16A1 assembly. These components are shown in figure 2. The Front Power Distribution Assembly circuit is shown in figure 3. Table 2 lists the components of the A16A3 assembly. The components are shown in figure 4. The Rear Power Distribution circuit is shown in figure 5.

Table 1. Front Power Distribution Assembly A16A1 Parts List

Ref. Desig.	Part Number	Description
A16A1	10121-1200	FRONT POWER DISTRIBUTION ASSEMBLY
C1	CK05BX102K	CAP 1000PF 10% 200V CER
C2	CK05BX102K	CAP 1000PF 10% 200V CER
C3	CK05BX102K	CAP 1000PF 10% 200V CER
C4	CK05BX102K	CAP 1000PF 10% 200V CER
C5	CK05BX102K	CAP 1000PF 10% 200V CER
C6	CK05BX102K	CAP 1000PF 10% 200V CER
C7	CK05BX102K	CAP 1000PF 10% 200V CER
C8	CK05BX102K	CAP 1000PF 10% 200V CER
C9	CK05BX102K	CAP 1000PF 10% 200V CER
J1	J46-0033-008	CONN 8 PIN
P9	J46-0016-003	CONN ,3 PIN
W1	10073-7061	RIBBON CABLE, 7 COND
W2	10073-7057	RIBBON CABLE, 24 COND
W3	10073-7057	RIBBON CABLE, 24 COND
W6	10121-7282	CABLE, CONTROL/COMBINER

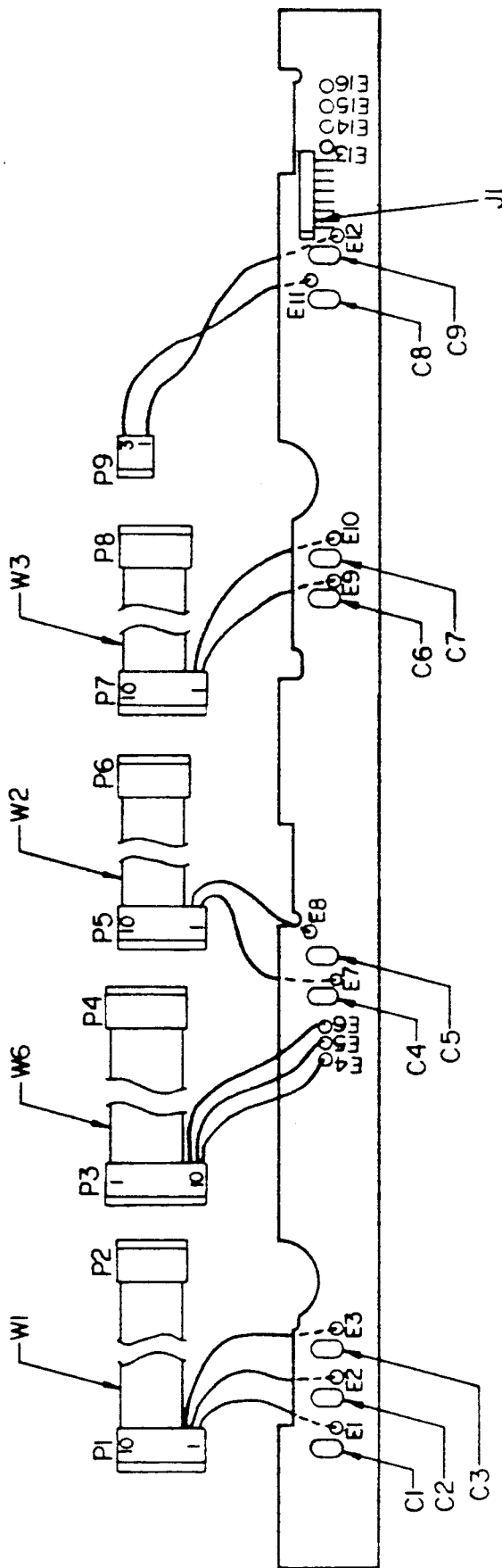
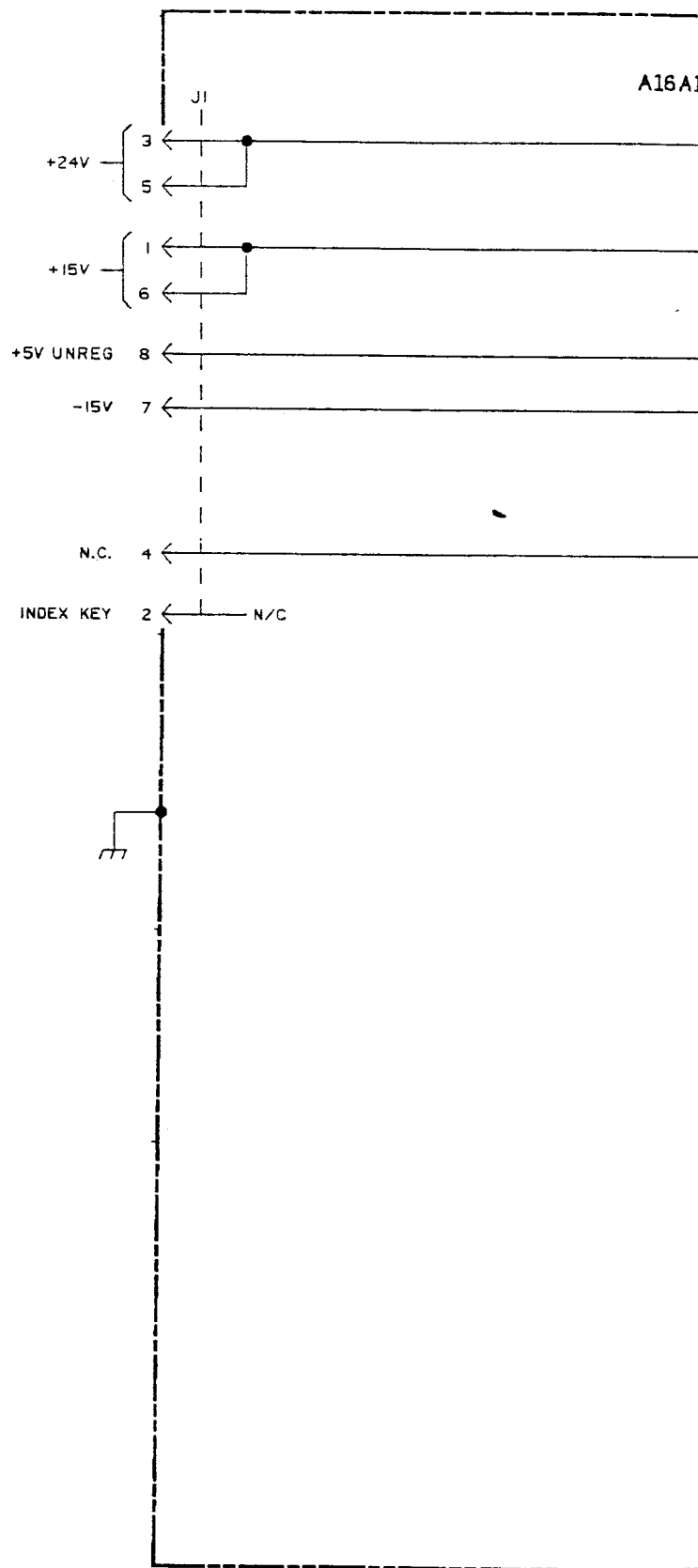


Figure 2. Front Power Distribution Assembly A16A1 Component Location Diagram (10121-1200)

NOTE: UNLESS OTHERWISE SPECIFIED:

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN.
FOR A COMPLETE DESIGNATION, PREFIX WITH
UNIT NO. AND/OR ASSEMBLY NO. DESIGNATION.

2. ALL CAPACITOR VALUES ARE .001 MICROFARADS.



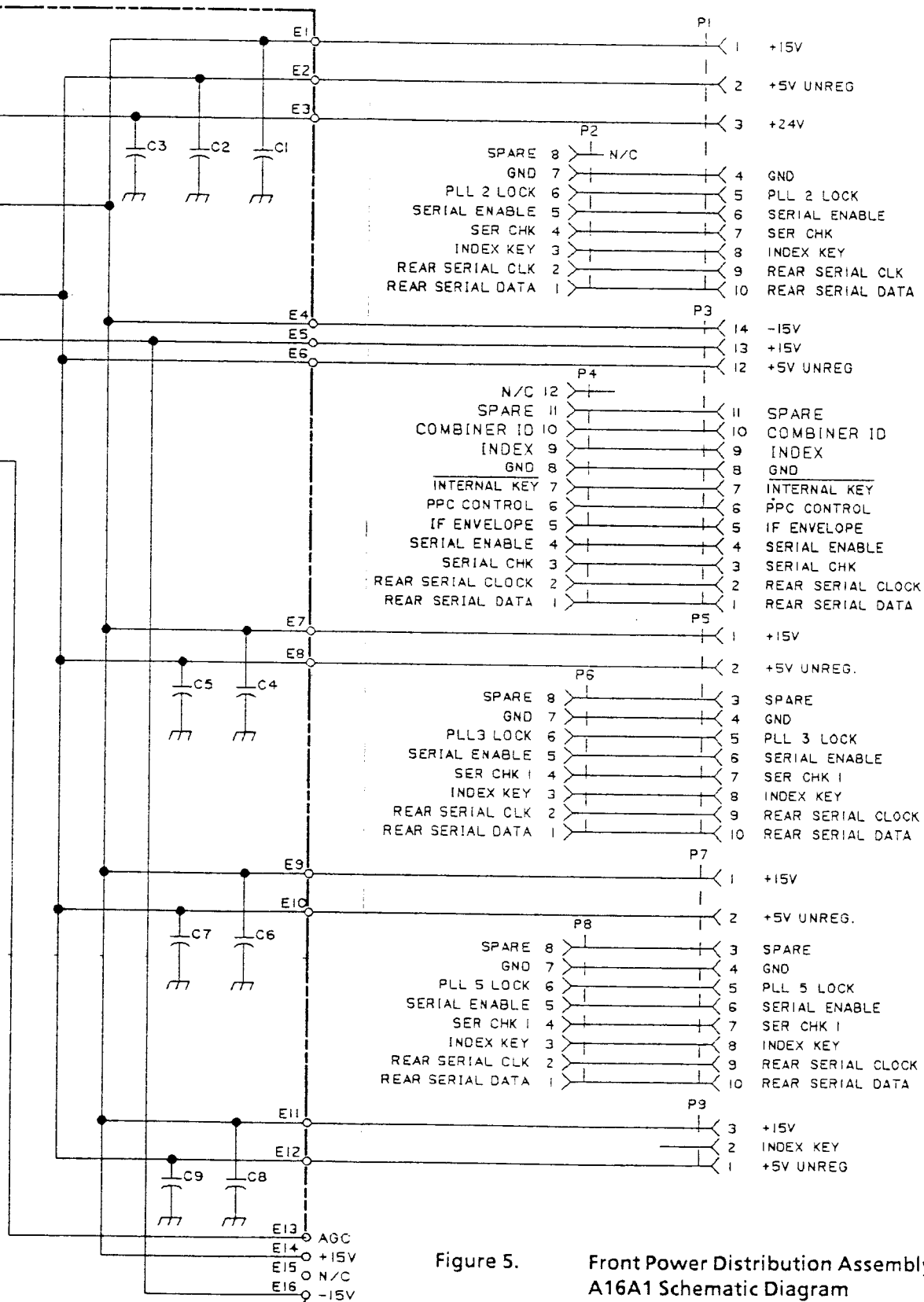


Figure 5.

Front Power Distribution Assembly
A16A1 Schematic Diagram
(10121-1201 Rev. D)

Table 2. Rear Power Distribution Assembly A16A3 Parts List

Ref. Desig.	Part Number	Description
A16A3	10121-1300	REAR POWER DISTRIBUTION ASSEMBLY
C1	CK05BX102K	CAP 1000PF 10% 200V CER
C2	CK05BX102K	CAP 1000PF 10% 200V CER
C3	CK05BX102K	CAP 1000PF 10% 200V CER
C4	CK05BX102K	CAP 1000PF 10% 200V CER
C5	CK05BX102K	CAP 1000PF 10% 200V CER
C6	CK05BX102K	CAP 1000PF 10% 200V CER
C7	CK05BX102K	CAP 1000PF 10% 200V CER
C8	CK05BX102K	CAP 1000PF 10% 200V CER
C9	CK05BX102K	CAP 1000PF 10% 200V CER
C10	CK05BX102K	CAP 1000PF 10% 200V CER
C11	CK05BX102K	CAP 1000PF 10% 200V CER
C12	CK05BX102K	CAP 1000PF 10% 200V CER
C13	CK05BX102K	CAP 1000PF 10% 200V CER
C14	CK05BX102K	CAP 1000PF 10% 200V CER
C15	CK05BX102K	CAP 1000PF 10% 200V CER
C16	CK05BX102K	CAP 1000PF 10% 200V CER
C17	CK05BX102K	CAP 1000PF 10% 200V CER
C18	CK05BX102K	CAP 1000PF 10% 200V CER
C19	CK05BX102K	CAP 1000PF 10% 200V CER
C20	CK05BX102K	CAP 1000PF 10% 200V CER
C21	CK05BX102K	CAP 1000PF 10% 200V CER
C22	CK05BX102K	CAP 1000PF 10% 200V CER
C23	CK05BX102K	CAP 1000PF 10% 200V CER
J1	J46-0033-006	CONN, 6 PIN
J2	J46-0033-006	CONN, 6 PIN
J3	J46-0033-008	CONN 8 PIN
J4	J46-0033-003	CONN 3 PIN
P1	J46-0016-010	CONN, 10 PIN
P2	J46-0016-006	CONN, 6 PIN
P3	J46-0016-006	CONN, 6 PIN
P4	J46-0016-010	CONN, 10 PIN
P5	J46-0016-006	CONN, 6 PIN

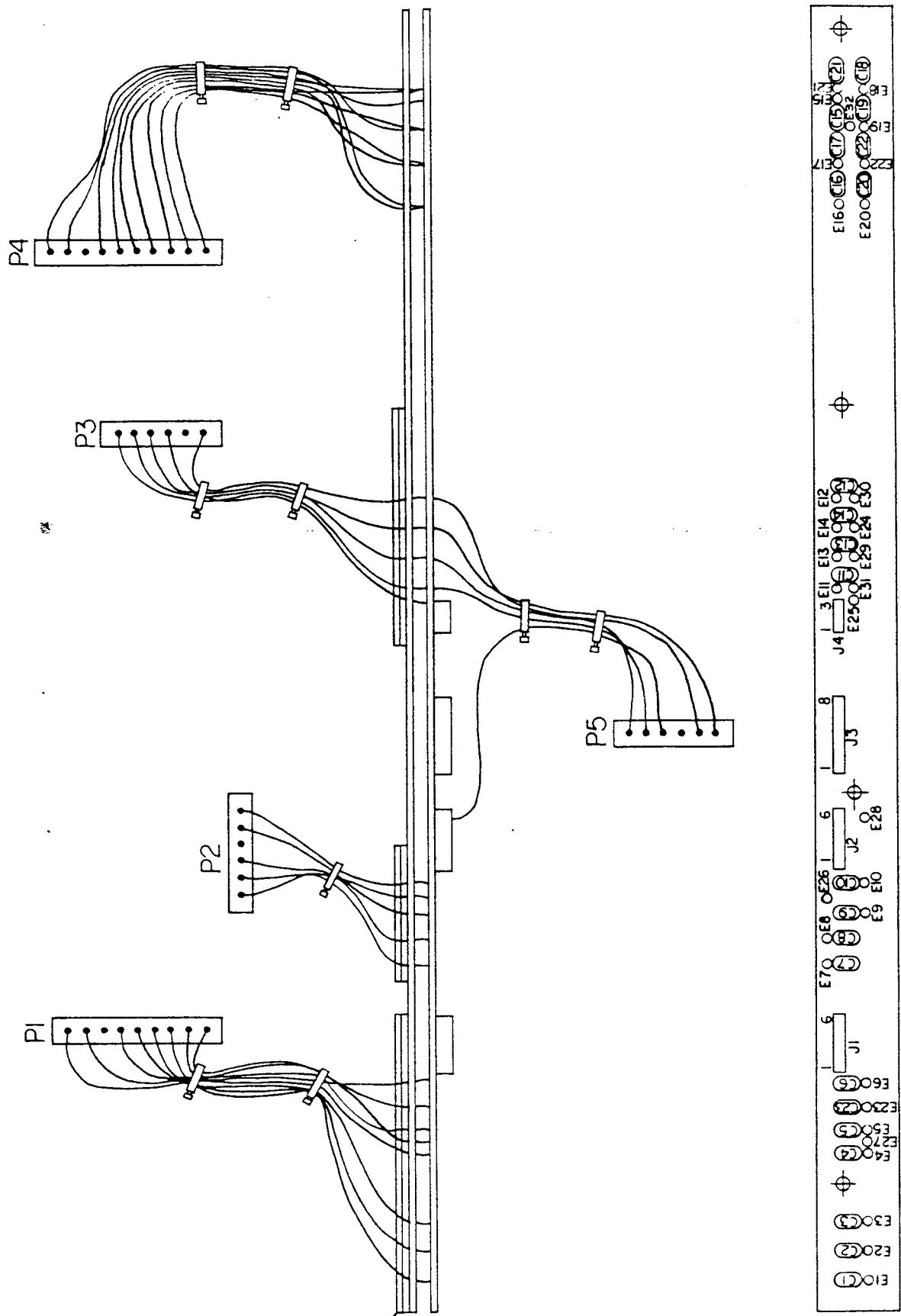
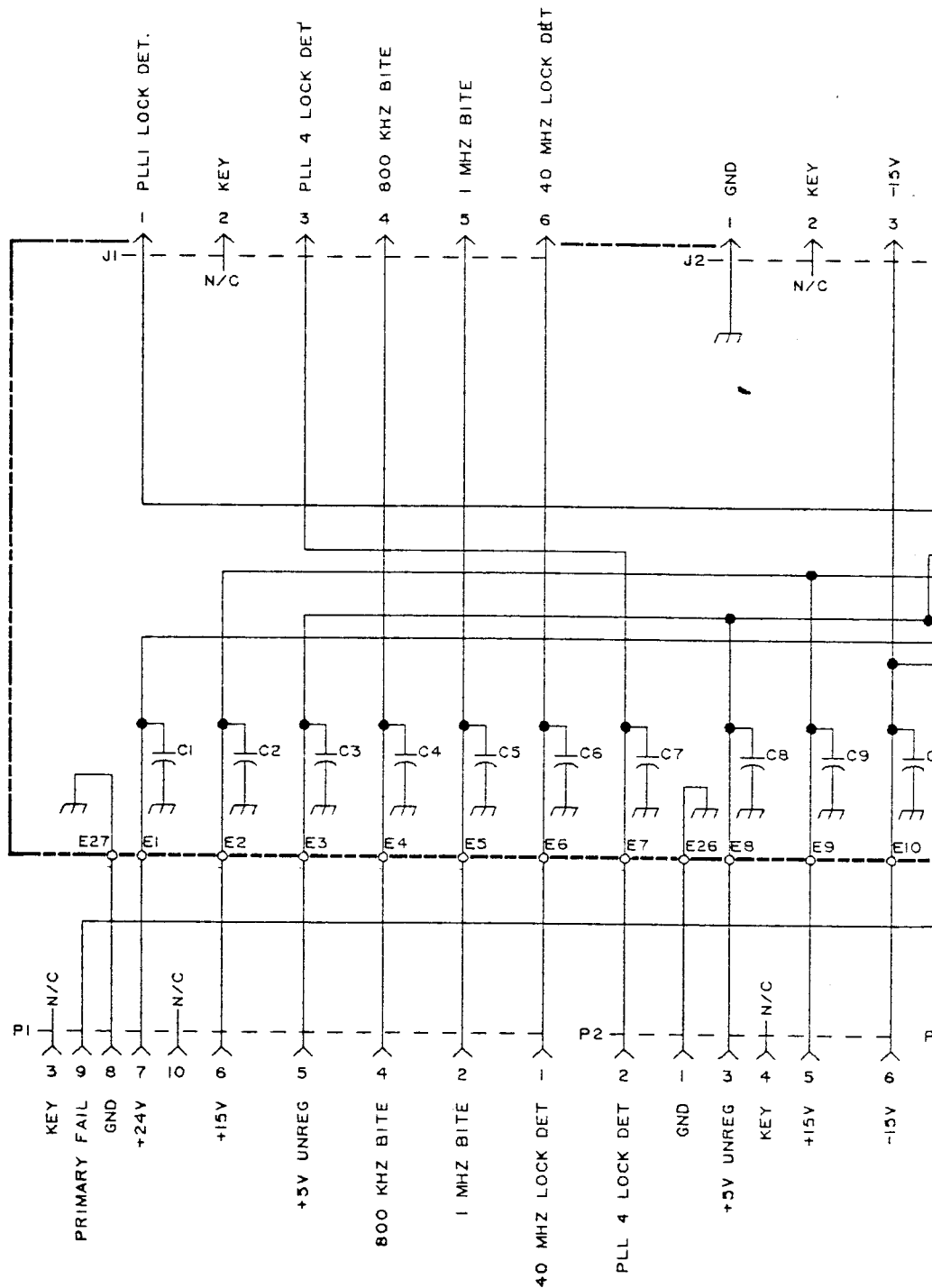


Figure 4. Rear Power Distribution Assembly A16A3 Component Location Diagram (10121-1300)

NOTE: UNLESS OTHERWISE SPECIFIED:

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN.
FOR A COMPLETE DESIGNATION, PREFIX WITH
UNIT NO. AND/OR ASSEMBLY NO. DESIGNATION.

2. ALL CAPACITOR VALUES ARE 1500 PICOFARADS.



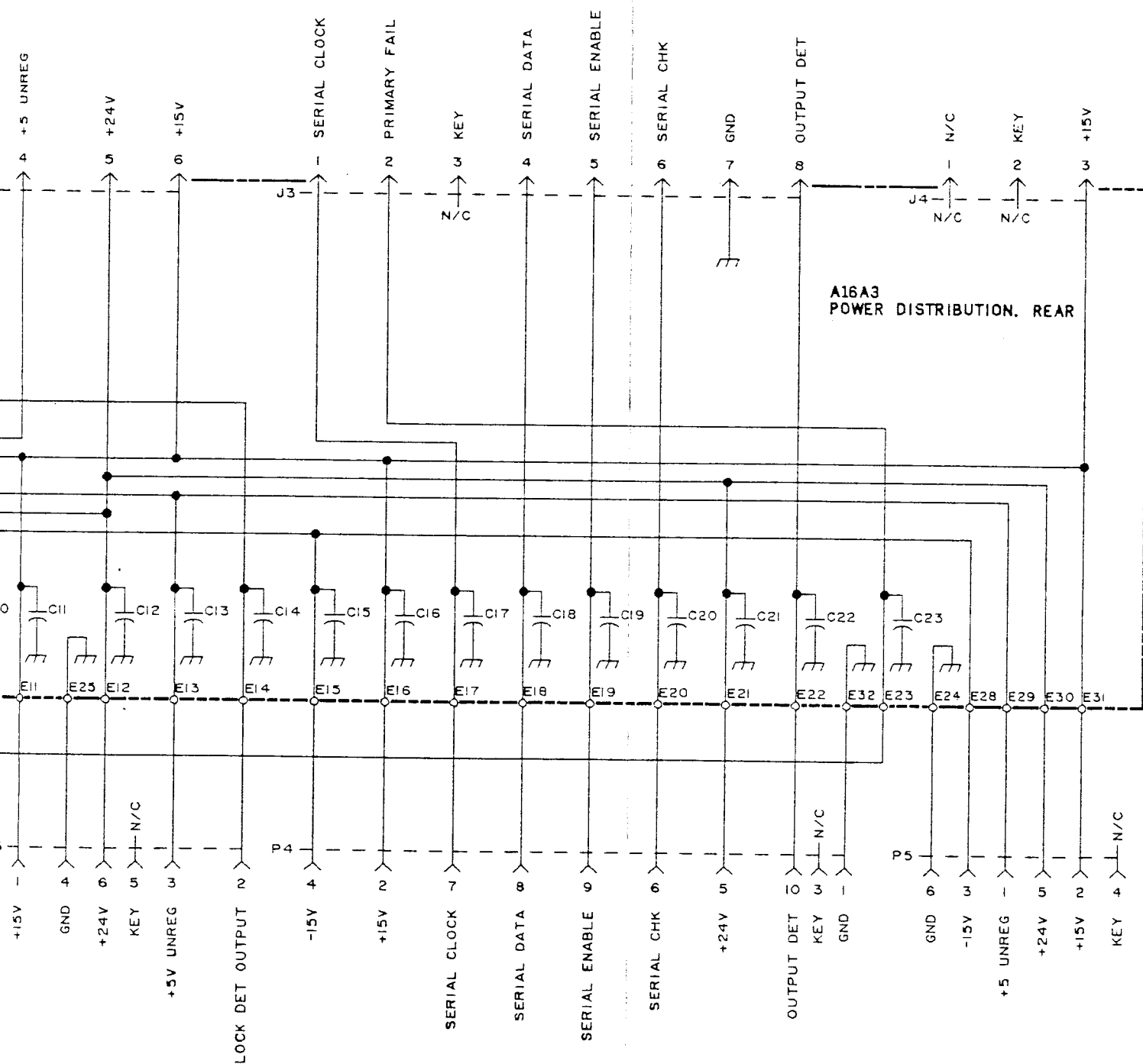


Figure 5. Rear Power Distribution Assembly
A16A3 Schematic Diagram
(10121-1301 Rev. D)