

[Return to Table of Contents](#)[Return to Module Map](#)

Table of Contents — Vacuum

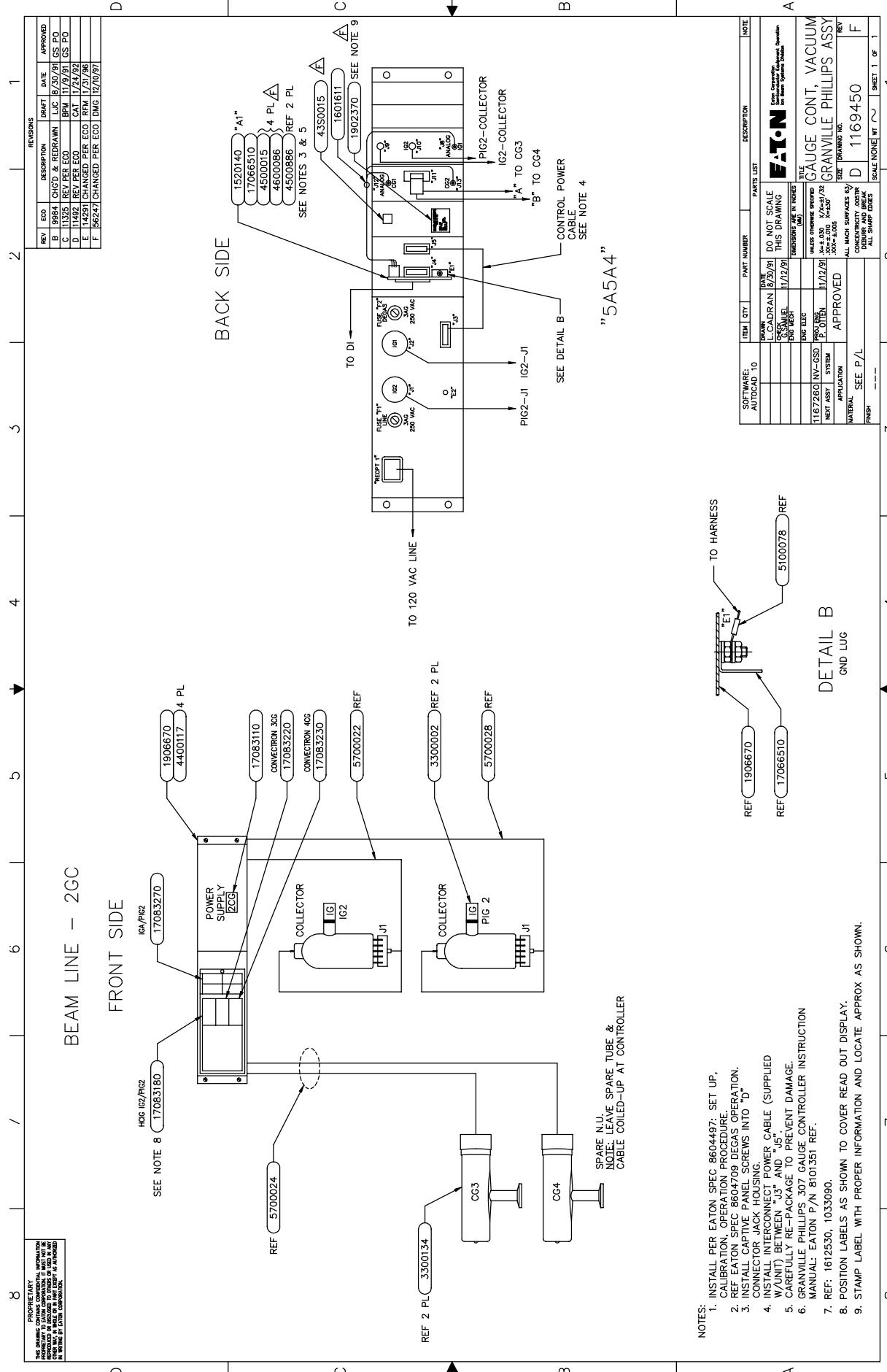
Gauge Cont, Vacuum Granville Phillips Assy. 1169450	Assy Linac DI PCB	1522320
Gauge Cont. Vacuum Grandville Phillips Assy. 1169460	Linac Vac Rear Panel Interconnect PCB	1522350
Gauge Control Vac. Grnv. Phil. Assy.....	Thermocouple DI Cryo Intlk PCB	1522920
Assembly Vacuum D.I.	TC DI/Cryo Intlk UTS Intfc PCB	1523060
Rough Line SF6 Assembly .	PCB V3 Control Board #2 .	15s0269
TC DI Cryo Intlk Assy.	Linac Air Interface #1 Module .	1909470
Manifold Resonator Rough Fill SF6 VHE .	Linac Air Interface #1 Module VHE .	1909760
Disk Vac D.I. Assembly .	Linac Air Interface #2 Module .	1913110
Schematic Air Interface DI .	System Schematic Disk TC DI .	8413400
Schematic General Interconnect	System Schematic V3 Control Box .	8414170
Schematic Vacuum Gauge Controller	Disk Vac D.I. System Schematic .	8415460
Interface B.D.	NV GSD/HE Vacuum Schematic .	8415830
Schematic Gen IO, DI Bd .	Sys. Schem Injector Vacuum DI .	8415870
Schematic, GSD V3 Controller BD .	System Schematic Linac Vacuum D.I. .	8415980
Schematic Linac Vacuum DI .	TC/Cryo Interlock D.I. System Schematic .	8416710
Schematic Vacuum Rear Panel Interconnect 1322350	Vacuum Schematic VHE .	8416730
Schematic TC/Cryo Interlock	System Schematic Linac Vacuum DI .	8416980
Interconnect PCB.	System Scheme, ATIC Linac Air Interface #1 8417180	
Schematic Thermocouple D.I. Cryo		
Interlock UTS Interface .	1323060	
Schematic V3 Control Board #2 .	13S0269	
PCB General Interconnect .	1510130	
Assembly, GSD V3 Controller .	1521330	

[Return to CD-ROM Table of Contents](#)

Return to Table of Contents

Return to Module Map

Gauge Cont, Vacuum Granville Phillips Assy. - 1169450

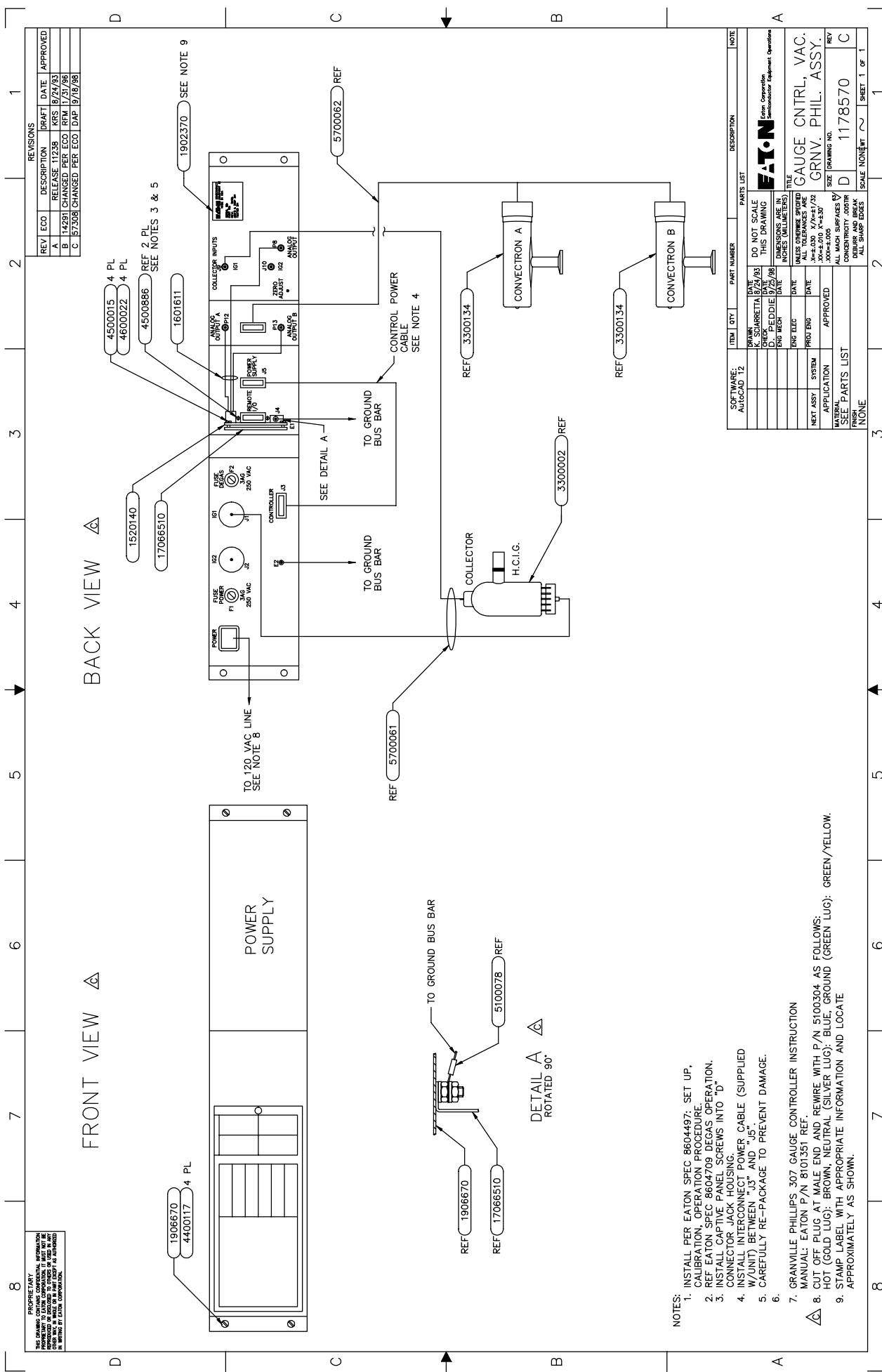


Return to CD-ROM Table of Contents

Return to Table of Contents

Return to Module Map

Gauge Control Vac. Grav. Phil. Assy. - 1178570



NOTES:

1. INSTALL PER EATON SPEC 8604497: SET UP, CALIBRATION, OPERATION PROCEDURE.
2. REF EATON SPEC 8604709 DEGAS OPERATION.
3. INSTALL CAPTIVE PANEL SCREWS INTO "D" CONNECTOR JACK HOUSING.
4. INSTALL INTERCONNECT POWER CABLE (SUPPLIED W/UNIT) BETWEEN "13" AND "15" CABLE.
5. CAREFULLY RE-PACKAGE TO PREVENT DAMAGE.
- 6.
7. GRANVILLE PHILLIPS 307 GAUGE CONTROLLER INSTRUCTION MANUAL: EATON P/N 8101351 REF.
8. CUT OUT PLUG AT MALE END AND REWIRE WITH P/N 510304 AS FOLLOWS:
HOT (GOLD LUG): BROWN, BLUE, GROUND (GREEN LUG); GREEN/YELLOW STAMP LABEL WITH APPROPRIATE INFORMATION AND LOCATE APPROXIMATELY V AS SHOWN

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	DRAWING	PARTS LIST	
2	1	MARSHETTA DRAFTING CO.	DO NOT SCALE	
3	1	THE FAX D. PEDDIE 9/25/98	THIS DRAWING	EATON Corporation Semiconductor Equipment Operations
4	1	NEC DATE	INDICATES THE DATE	
5	1	ENG. NECH	INCHES (MILLIMETERS)	
6	1	ENG. DATE	TIME	
7	1	ENG. SYSTEM	DATE	
8	1	TRIG. ENG.	DATE	
9	1	APPROVED		
10	1	SEE		
11	1	FINISH		
12	1	SEE PARTS LIST		
				REV C
				D 1178570

Return to CD-ROM Table of Contents

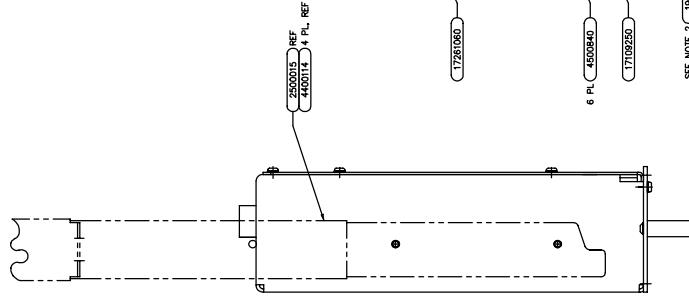
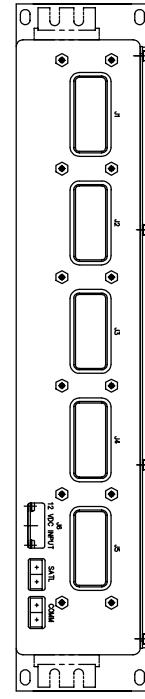
[Return to Table of Contents](#)

[Return to Module Map](#)

Assembly Vacuum D.I. - 1178620



KEY	ECN	DESCRIPTION	REF ID	QTY	TYPE	SIZE	APPROVED
A		FRONT PANEL		1	PCB	FRONT	REF ID: 1178620
B		HE3 LINAC	1105530/-	1	SWITCH	HE3 LINAC	REF ID: 1178620
C		HE3 LINAC	1125230/-	1	SWITCH	HE3 LINAC	REF ID: 1178620
D		HE3 LINAC	1192410/-	1	SWITCH	HE3 LINAC	REF ID: 1178620
E		HE3 LINAC	11005120/-	1	SWITCH	HE3 LINAC	REF ID: 1178620

REF
400114

4 PL

REF

2500015

4 PL

REF

17261060

6 PL

REF

17019250

4 PL

REF

1702370

2 PL

REF

17001690

4 PL

REF

17261170

4 PL

REF

17261050

5 PL

REF

1615530

11 PL

REF

1522320

A1 SEE NOTES 1, 5

REF

4400201

4 PL

REF

4400203

4 PL

REF

17261050

SEE NOTE 3

REF

17261170

SEE NOTE 3

REF

17261050

SEE NOTE 4

REF

1522350

12 PL

REF

4500040

11 PL

REF

17261050

SEE NOTE 2

REF

1902370

REF

17001690

REF

17019250

REF

1702370

REF

17261170

REF

17261050

REF

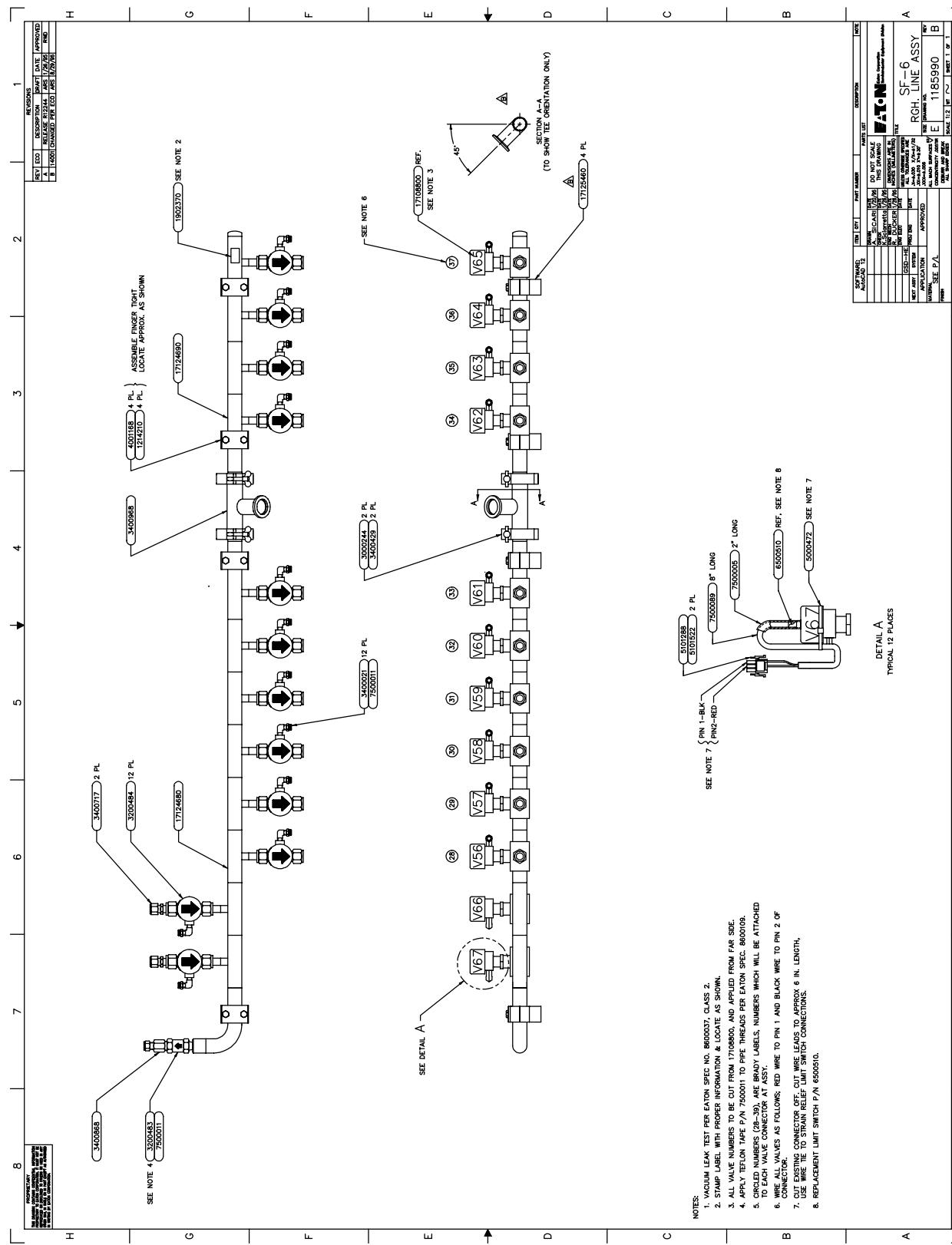
17261170

REF</div

Return to Table of Contents

[Return to Module Map](#)

Rough Line SF6 Assembly - 1185990



NOTES:

1. VACUUM LEAK TEST PER EATON SPEC NO. B90057, CLASS 2.
2. STICKY LABEL WITH PROPER IDENTIFICATION & LOCATE AS SHOWN.
3. ALL VALVES TO BE CUT FROM 170800, AND APPLIED FOR EATON.
4. APPLY TEFON TAPE P/N 750001 TO PIPE THREADS FOR EATON.
5. CIRCLED NUMBER (25-30) = BRAIDY LABELS, NUMBERS WHICH
6. WIRE ALL VALVES AS FOLLOWS: RED WIRE TO PIN 1 AND BLACK WIRE TO EACH VALVE CONNECTOR (OR ASST.).
7. USE EATING COUPLES ON DUTY AND UTILITY LEADS TO APPROX 6 IN.
8. USE EATING COUPLES ON DUTY AND UTILITY LEADS TO APPROX 6 IN.

NOTES:

1. VACUUM LEAK TEST PER EATON SPEC NO. B60047, CLASS 2.
2. STAMP LABEL WITH PROPER INFORMATION & LOCATE AS SHOWN.
3. ALL VALVE NUMBERS TO BE CUT FROM 1710000, AND APPLIED FROM FAR SIDE.
4. APPLY TEFLON TAPE P/N 750011 TO PIPE THREADS PER EATON SPEC 8600109.
5. CIRCLED NUMBER (28-39) ARE BAD LABELS, NUMBERS WHICH WILL BE ATTACHED
6. CONNECT VALVE AS FOLLOWS RED WIRE TO PIN 1 AND BLACK WIRE TO PIN 2 OF
WIRELESS VALVE CONNECTOR (SEE FIGURE).
7. USE PLIERS TO STRAIGHTEN LEADS OUT, AND TIN WIRE CONNECTIONS.
8. USE PLIERS TO STRAIGHTEN LEADS OUT, AND TIN WIRE CONNECTIONS.

Return to CD-ROM Table of Contents

Return to Table of Contents

Return to Module Map

TC DI Cryo Intlk Assy - 1187280

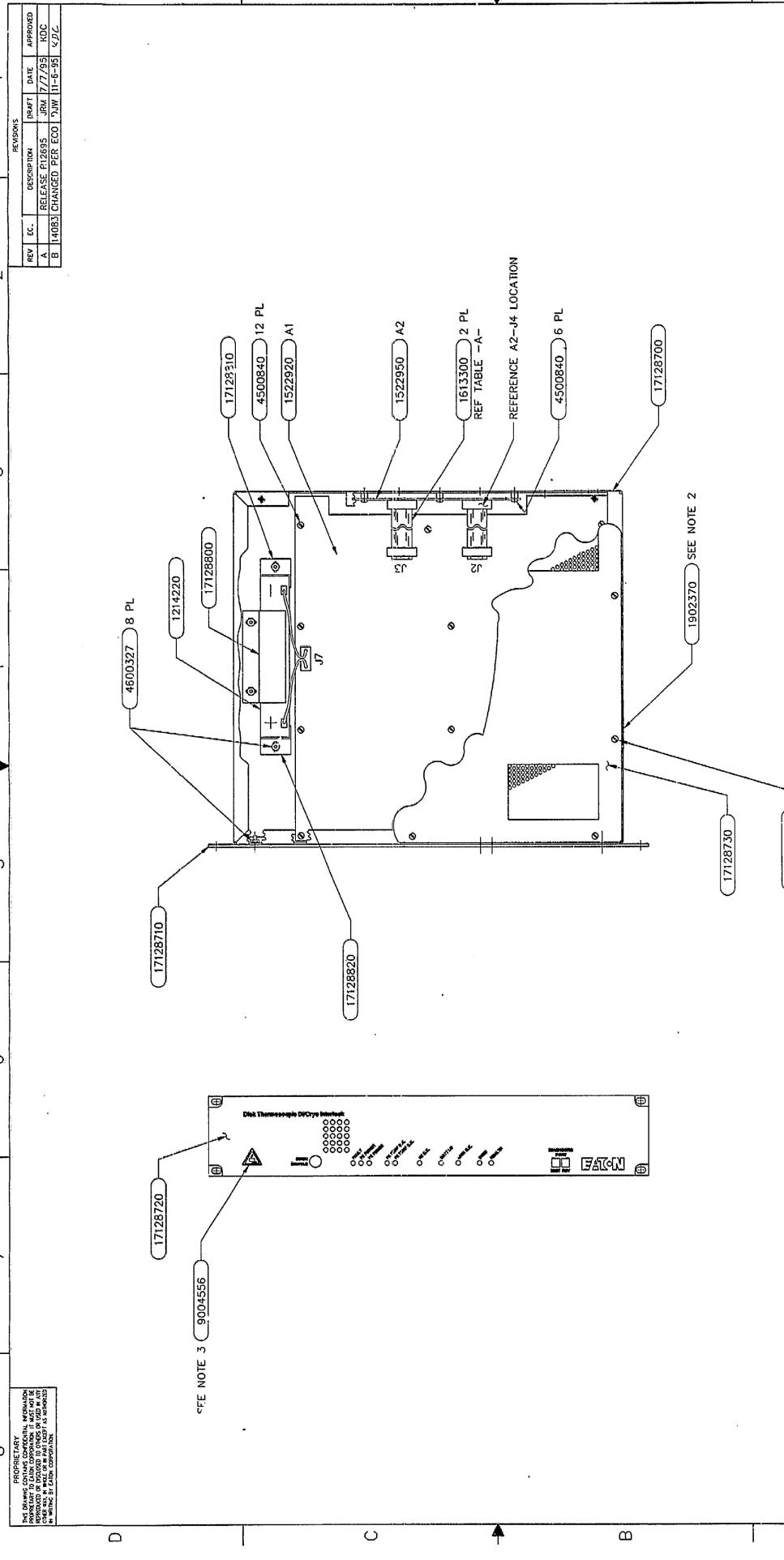


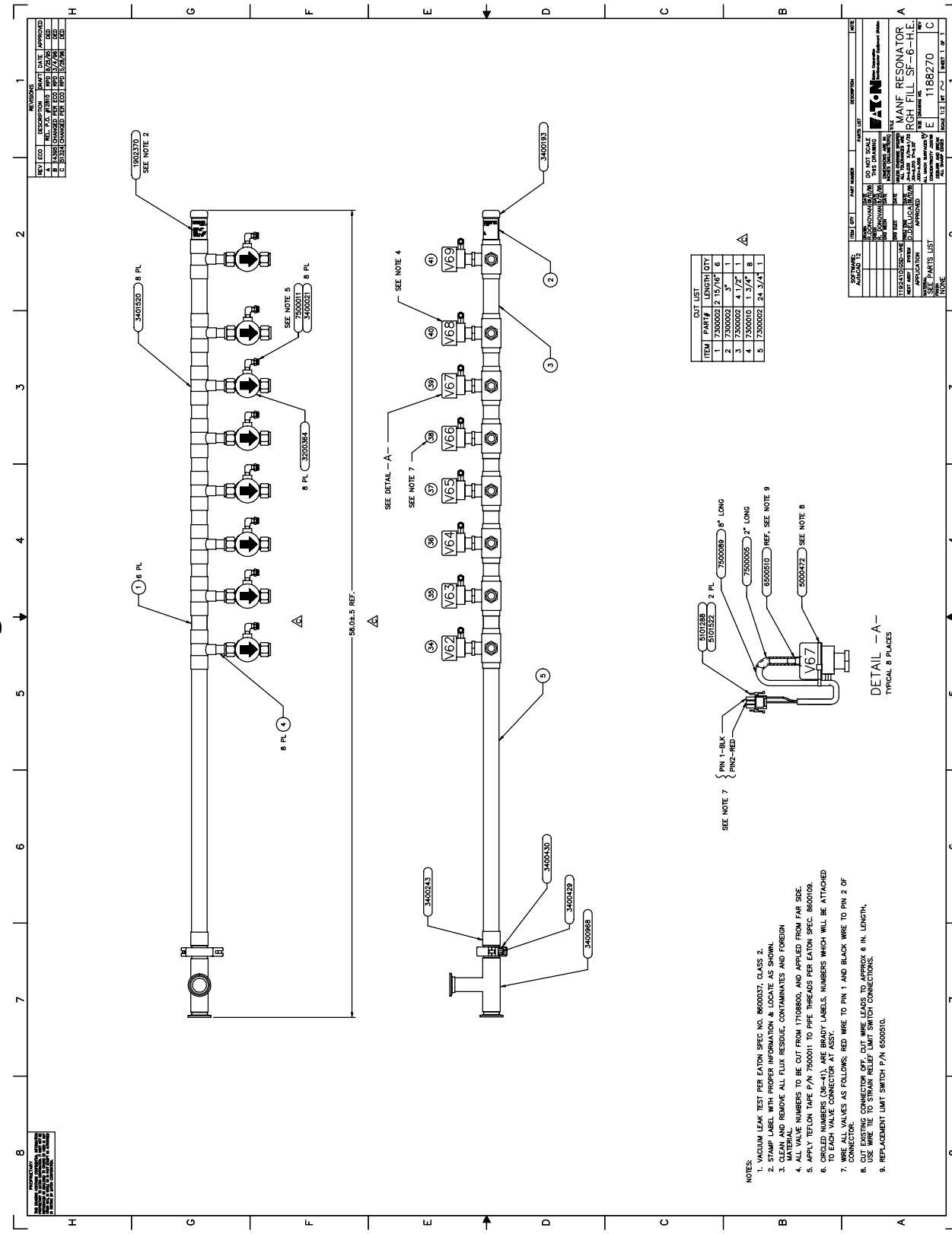
TABLE -A-		SOFTWARE: AUTOCAD 10	ITEM ORI	PART NUMBER	DESCRIPTION	NOTE
DRAWN	DATUM					
CABLE	A1	A2			DO NOT SCALE	
1613300	J1	J4			THIS DRAWING	
1613300	J3	J4			DIMENSIONS ARE IN INCHES (in.)	
					UNLESS OTHERWISE SPECIFIED	
					X = .030 Y = .014 Z = .030	
					ALL HOLE SIZES .030	
					ALL MACH SURFACES .030	
					COLOCATED HOLES .030	
					ALL REINFORCING AND BREAK EDGES	
					ALL SHARP EDGES	
					REV. A	
					SIZE 1/2 WT ~	
					SHEET 1 OF 1	

TABLE -B-

ITEM	DRAWN	PART NUMBER	DESCRIPTION	NOTE	
				ORI	REV.
1	1167260	NV-GSD	EATON		
2	1167260	NV-GSD	EATON		
3	1167260	NV-GSD	EATON		
4	1167260	NV-GSD	EATON		
5	1167260	NV-GSD	EATON		
6	1167260	NV-GSD	EATON		
7	1167260	NV-GSD	EATON		
8	1167260	NV-GSD	EATON		
9	1167260	NV-GSD	EATON		
10	1167260	NV-GSD	EATON		
11	1167260	NV-GSD	EATON		
12	1167260	NV-GSD	EATON		
13	1167260	NV-GSD	EATON		
14	1167260	NV-GSD	EATON		
15	1167260	NV-GSD	EATON		
16	1167260	NV-GSD	EATON		
17	1167260	NV-GSD	EATON		
18	1167260	NV-GSD	EATON		
19	1167260	NV-GSD	EATON		
20	1167260	NV-GSD	EATON		
21	1167260	NV-GSD	EATON		
22	1167260	NV-GSD	EATON		
23	1167260	NV-GSD	EATON		
24	1167260	NV-GSD	EATON		
25	1167260	NV-GSD	EATON		
26	1167260	NV-GSD	EATON		
27	1167260	NV-GSD	EATON		
28	1167260	NV-GSD	EATON		
29	1167260	NV-GSD	EATON		
30	1167260	NV-GSD	EATON		
31	1167260	NV-GSD	EATON		
32	1167260	NV-GSD	EATON		
33	1167260	NV-GSD	EATON		
34	1167260	NV-GSD	EATON		
35	1167260	NV-GSD	EATON		
36	1167260	NV-GSD	EATON		
37	1167260	NV-GSD	EATON		
38	1167260	NV-GSD	EATON		
39	1167260	NV-GSD	EATON		
40	1167260	NV-GSD	EATON		
41	1167260	NV-GSD	EATON		
42	1167260	NV-GSD	EATON		
43	1167260	NV-GSD	EATON		
44	1167260	NV-GSD	EATON		
45	1167260	NV-GSD	EATON		
46	1167260	NV-GSD	EATON		
47	1167260	NV-GSD	EATON		
48	1167260	NV-GSD	EATON		
49	1167260	NV-GSD	EATON		
50	1167260	NV-GSD	EATON		
51	1167260	NV-GSD	EATON		
52	1167260	NV-GSD	EATON		
53	1167260	NV-GSD	EATON		
54	1167260	NV-GSD	EATON		
55	1167260	NV-GSD	EATON		
56	1167260	NV-GSD	EATON		
57	1167260	NV-GSD	EATON		
58	1167260	NV-GSD	EATON		
59	1167260	NV-GSD	EATON		
60	1167260	NV-GSD	EATON		
61	1167260	NV-GSD	EATON		
62	1167260	NV-GSD	EATON		
63	1167260	NV-GSD	EATON		
64	1167260	NV-GSD	EATON		
65	1167260	NV-GSD	EATON		
66	1167260	NV-GSD	EATON		
67	1167260	NV-GSD	EATON		
68	1167260	NV-GSD	EATON		
69	1167260	NV-GSD	EATON		
70	1167260	NV-GSD	EATON		
71	1167260	NV-GSD	EATON		
72	1167260	NV-GSD	EATON		
73	1167260	NV-GSD	EATON		
74	1167260	NV-GSD	EATON		
75	1167260	NV-GSD	EATON		
76	1167260	NV-GSD	EATON		
77	1167260	NV-GSD	EATON		
78	1167260	NV-GSD	EATON		
79	1167260	NV-GSD	EATON		
80	1167260	NV-GSD	EATON		
81	1167260	NV-GSD	EATON		
82	1167260	NV-GSD	EATON		
83	1167260	NV-GSD	EATON		
84	1167260	NV-GSD	EATON		
85	1167260	NV-GSD	EATON		
86	1167260	NV-GSD	EATON		
87	1167260	NV-GSD	EATON		
88	1167260	NV-GSD	EATON		
89	1167260	NV-GSD	EATON		
90	1167260	NV-GSD	EATON		
91	1167260	NV-GSD	EATON		
92	1167260	NV-GSD	EATON		
93	1167260	NV-GSD	EATON		
94	1167260	NV-GSD	EATON		
95	1167260	NV-GSD	EATON		
96	1167260	NV-GSD	EATON		
97	1167260	NV-GSD	EATON		
98	1167260	NV-GSD	EATON		
99	1167260	NV-GSD	EATON		
100	1167260	NV-GSD	EATON		
101	1167260	NV-GSD	EATON		
102	1167260	NV-GSD	EATON		
103	1167260	NV-GSD	EATON		
104	1167260	NV-GSD	EATON		
105	1167260	NV-GSD	EATON		
106	1167260	NV-GSD	EATON		
107	1167260	NV-GSD	EATON		
108	1167260	NV-GSD	EATON		
109	1167260	NV-GSD	EATON		
110	1167260	NV-GSD	EATON		
111	1167260	NV-GSD	EATON		
112	1167260	NV-GSD	EATON		
113	1167260	NV-GSD	EATON		
114	1167260	NV-GSD	EATON		
115	1167260	NV-GSD	EATON		
116	1167260	NV-GSD	EATON		
117	1167260	NV-GSD	EATON		
118	1167260	NV-GSD	EATON		
119	1167260	NV-GSD	EATON		
120	1167260	NV-GSD	EATON		
121	1167260	NV-GSD	EATON		
122	1167260	NV-GSD	EATON		
123	1167260	NV-GSD	EATON		
124	1167260	NV-GSD	EATON		
125	1167260	NV-GSD	EATON		
126	1167260	NV-GSD	EATON		
127	1167260	NV-GSD	EATON		
128	1167260	NV-GSD	EATON		
129	1167260	NV-GSD	EATON		
130	1167260	NV-GSD	EATON		
131	1167260	NV-GSD	EATON		
132	1167260	NV-GSD	EATON		
133	1167260	NV-GSD	EATON		
134	1167260	NV-GSD	EATON		
135	1167260	NV-GSD	EATON		
136	1167260	NV-GSD	EATON		
137	1167260	NV-GSD	EATON		
138	1167260	NV-GSD	EATON		
139	1167260	NV-GSD	EATON		
140	1167260	NV-GSD	EATON		
141	1167260	NV-GSD	EATON		
142	1167260	NV-GSD	EATON		
143	1167260	NV-GSD	EATON		
144	1167260	NV-GSD	EATON		
145	1167260	NV-GSD	EATON		
146	1167260	NV-GSD	EATON		
147	1167260	NV-GSD	EATON		
148	1167260	NV-GSD	EATON		
149	1167260	NV-GSD	EATON		
150	1167260	NV-GSD	EATON		
151	1167260	NV-GSD	EATON		
152	1167260	NV-GSD	EATON		
153	1167260	NV-GSD	EATON		
154	1167260	NV-GSD	EATON		
155	1167260	NV-GSD	EATON		
156	1167260	NV-GSD	EATON		
157	1167260	NV-GSD	EATON		
158	1167260	NV-GSD	EATON		
159	1167260	NV-GSD	EATON		
160	1167260	NV-GSD	EATON		
161	1167260	NV-GSD	EATON		
162	1167260	NV-GSD	EATON		
163	1167260	NV-GSD	EATON		
164	1167260	NV-GSD	EATON		
165	1167260	NV-GSD	EATON		
166	1167260	NV-GSD	EATON		
167	1167260	NV-GSD	EATON		
168	1167260	NV-GSD	EATON		
169	1167260	NV-GSD	EATON		
170	1167260	NV-GSD	EATON		
171	1167260	NV-GSD	EATON		
172	1167260	NV-GSD	EATON		
173	1167260	NV-GSD	EATON		
174	1167260	NV-GSD	EATON		
175	1167260	NV-GSD	EATON		
176	1167260	NV-GSD	EATON		
177	1167260	NV-GSD	EATON		
178	1167260	NV-GSD	EATON		
179	1167260	NV-GSD	EATON		
180	1167260	NV-GSD	EATON		
181	1167260	NV-GSD	EATON		
182	1167260	NV-GSD	EATON		
183	1167260	NV-GSD	EATON		
184	1167260	NV-GSD	EATON		
185	1167260	NV-GSD	EATON		
186	1167260	NV-GSD	EATON		
187	1167260	NV-GSD	EATON		
188	1167260	NV-GSD	EATON		
189	1167260	NV-GSD	EATON		
190	1167260	NV-GSD	EATON		
191	1167260	NV-GSD	EATON		
192	1167260	NV-GSD	EATON		
193	1167260	NV-GSD	EATON		
194	1167260	NV-GSD	EATON		
195	1167260	NV-GSD	EATON		
196	1167260	NV-GSD	EATON		
197	1167260	NV-GSD	EATON		
198	1167260	NV-GSD	EATON		
199	1167260	NV-GSD	EATON		

[Return to Table of Contents](#)[Return to Module Map](#)

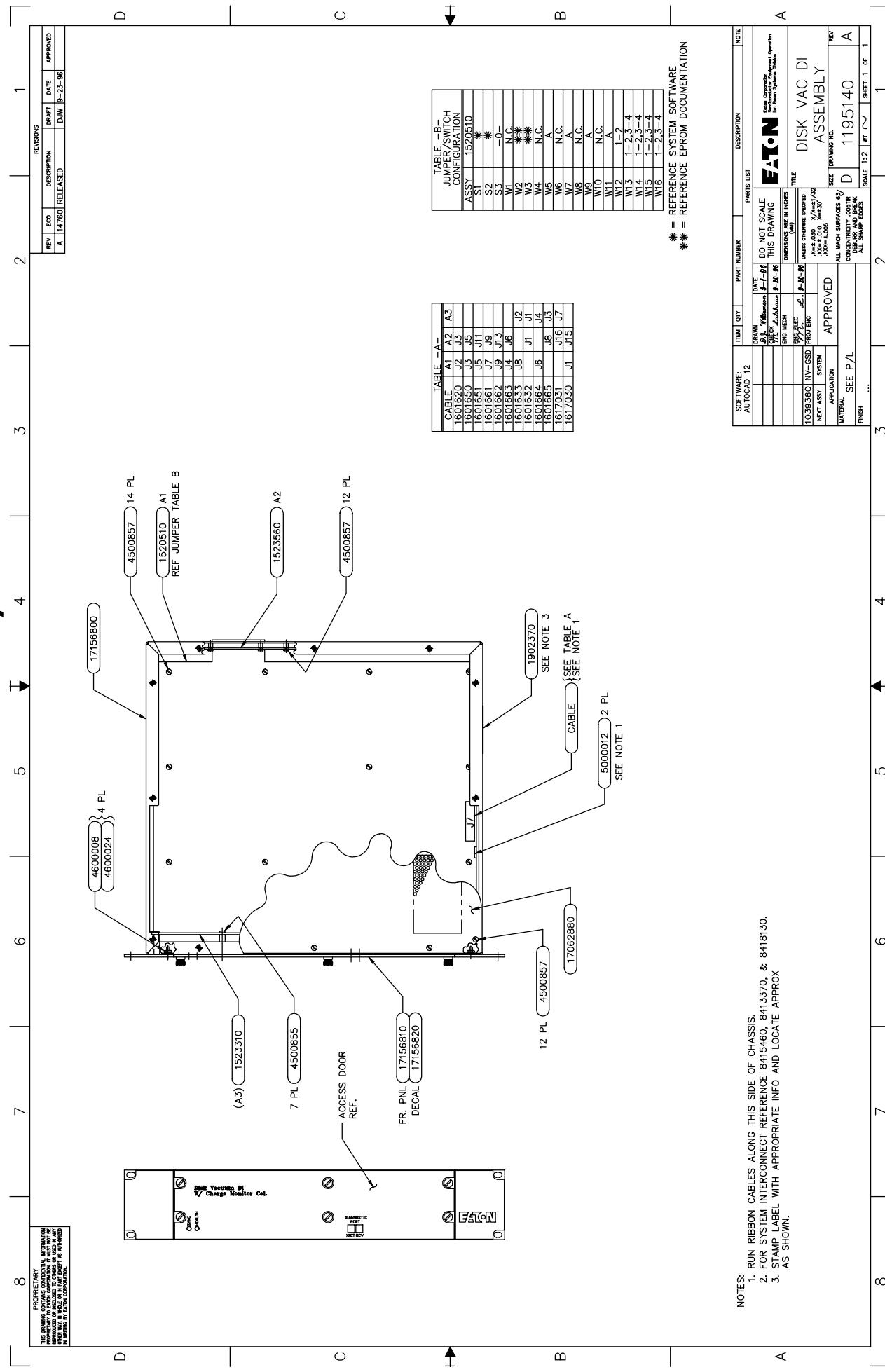
Manifold Resonator Rough Fill SF6 VHE - 1188270



Return to Table of Contents

Return to Module Map

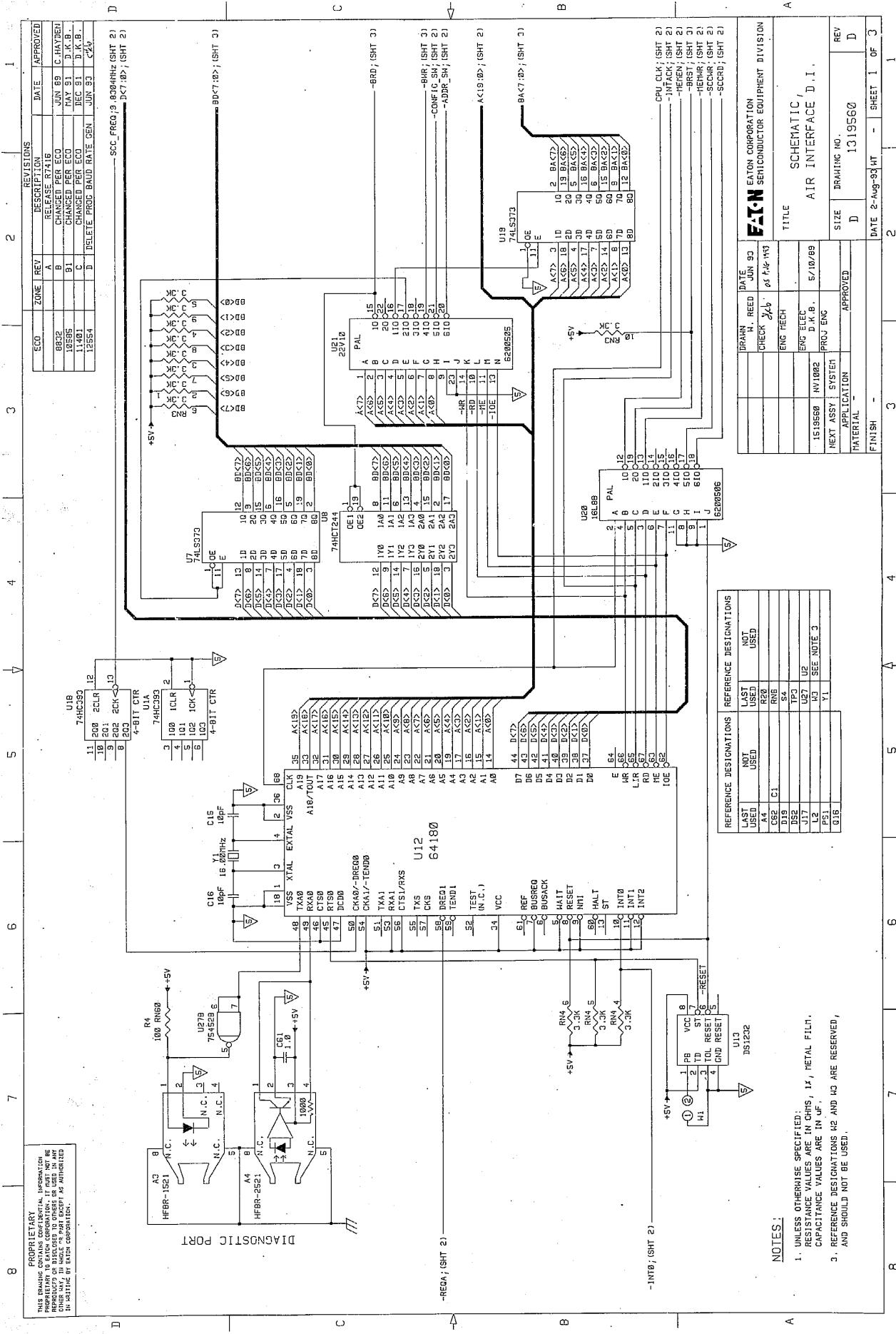
Disk Vac D.I. Assembly - 1195140



Return to CD-ROM Table of Contents

Schematic Air Interface DI - 1319560

PROPRIETARY
THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION
PROPRIETARY TO EATON CORPORATION. IT MUST NOT BE
REPRODUCED OR DISCLOSED TO OTHERS OR USED IN ANY
OTHER WAY, IN WHOLE OR PART EXCEPT AS AUTHORIZED
IN WRITING BY EATON CORPORATION.



NOTES

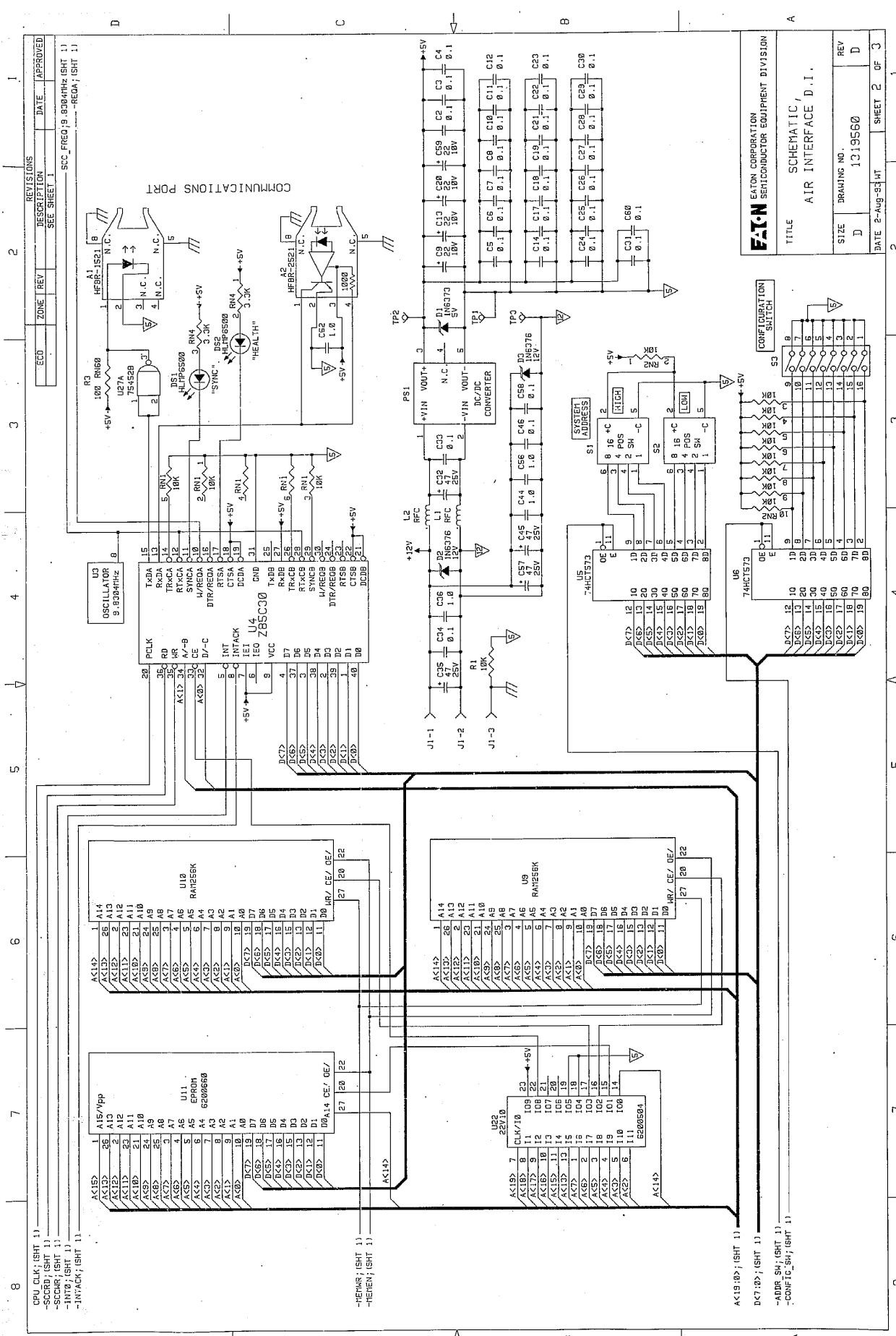
1. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS, $1X$, METAL FILM,
CAPACITANCE VALUES ARE IN UF,
 3. REFERENCE DESIGNATIONS #2 AND #3 ARE RESERVED,
AND CIRCUIT NOT USED.

FOR EQUIPMENT DIVISION

4

Return to **CD-ROM Table of Contents**

Schematic Air Interface DI - 1319560

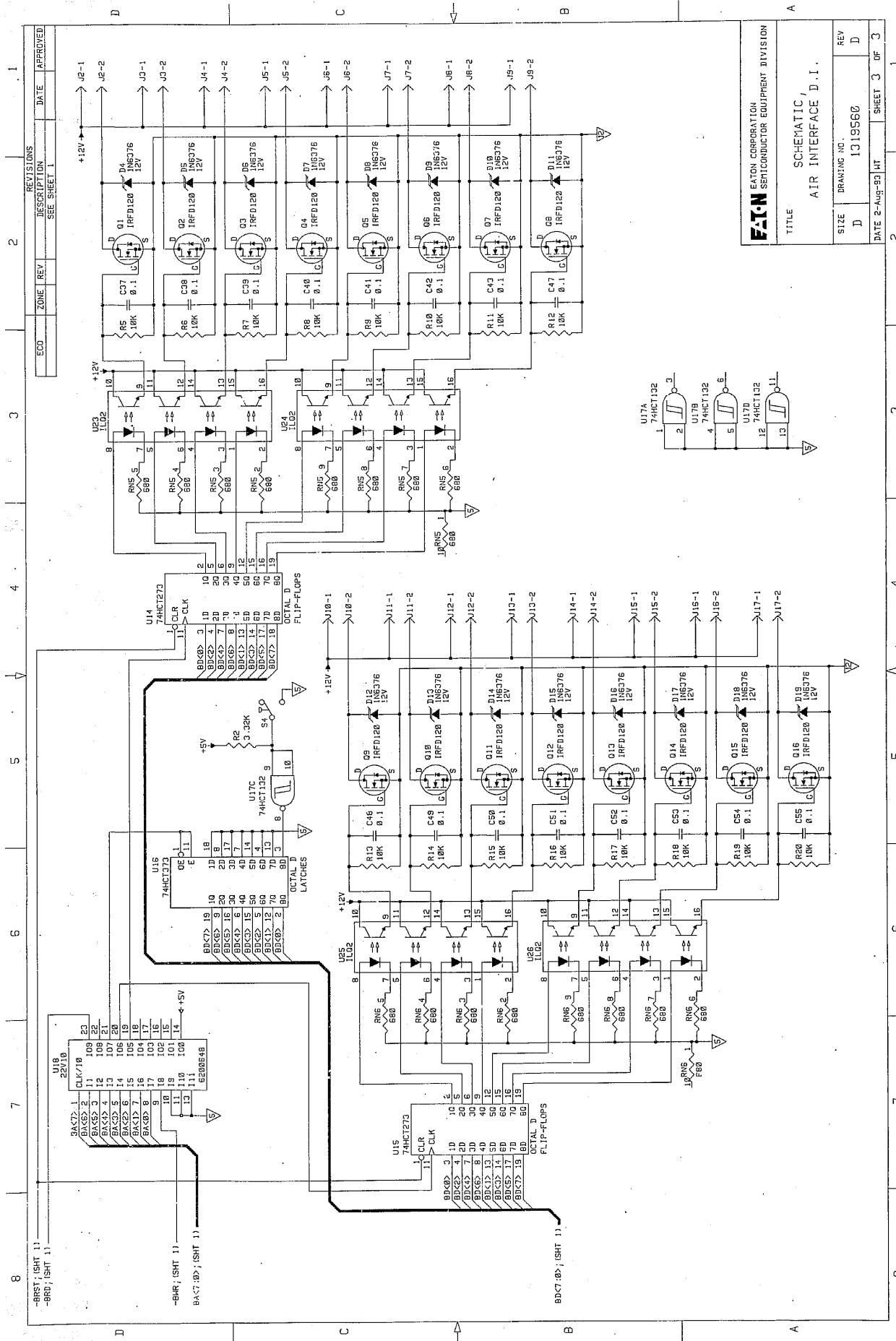


Return to CD-ROM Table of Contents

[Return to Table of Contents](#)

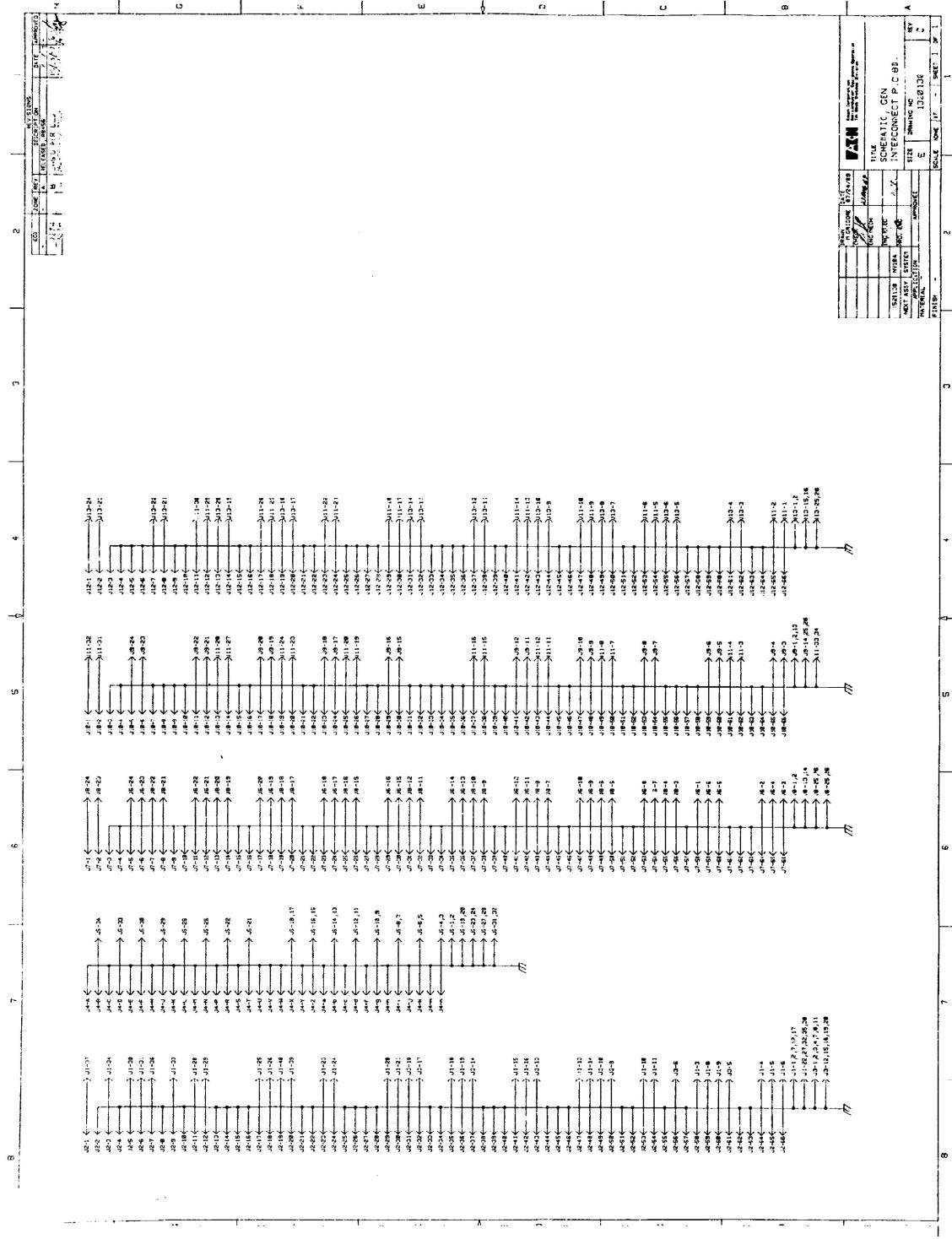
Schematic Air Interface DI - 1319560

Return to Module Map



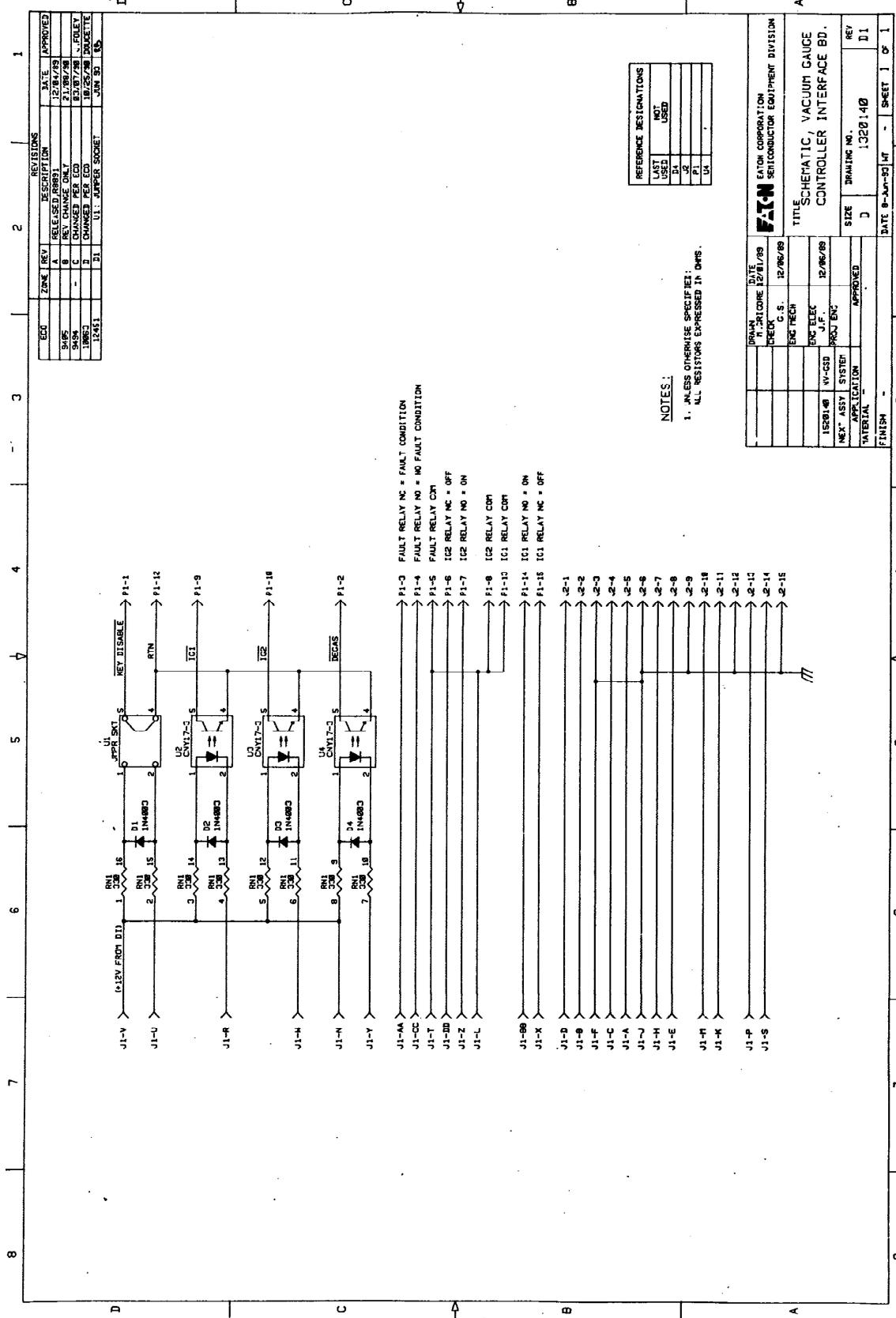
Return to CD-ROM Table of Contents

Schematic General Interconnect - 1320130



[Return to Table of Contents](#)[Return to Module Map](#)

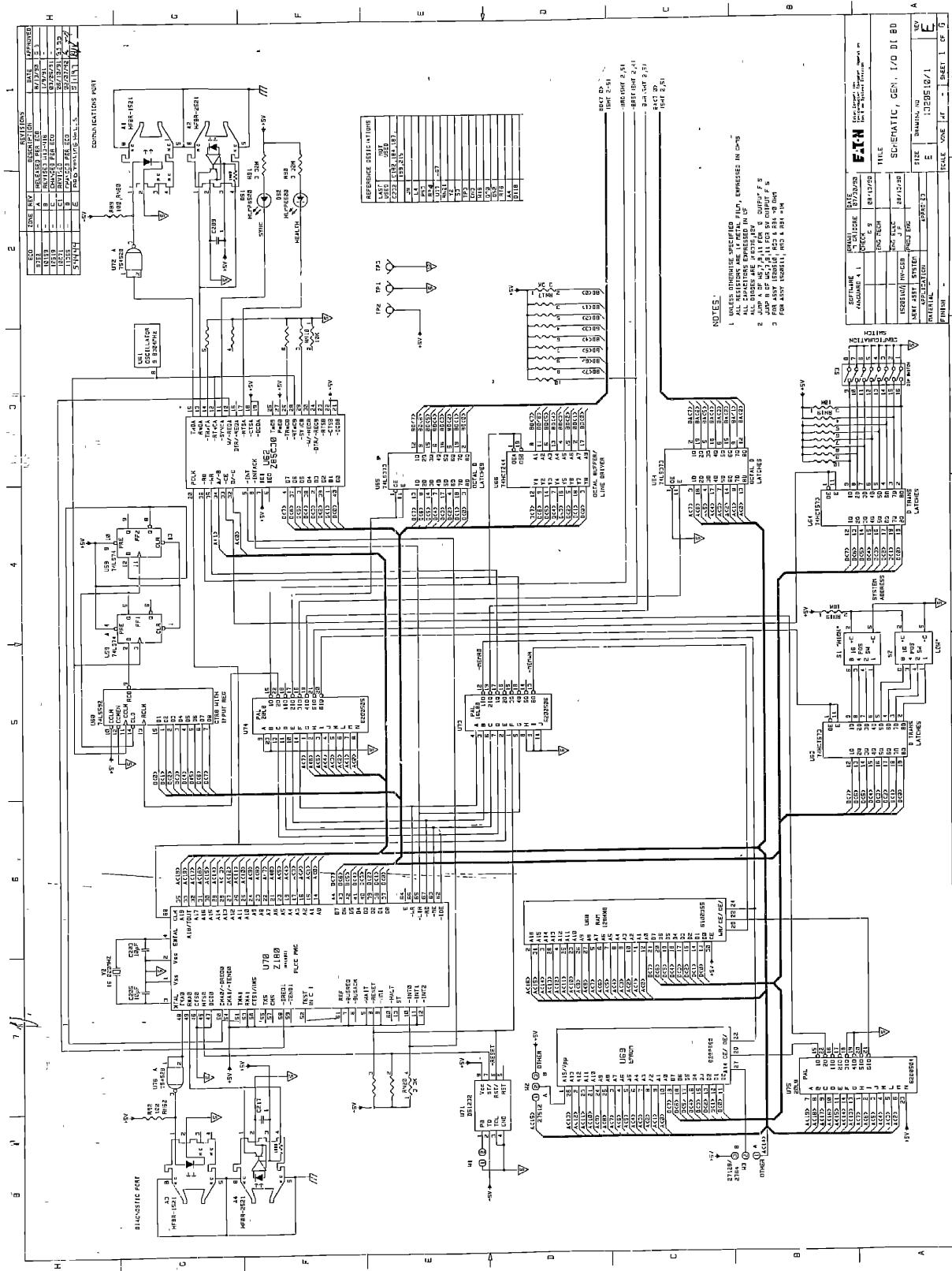
Schematic Vacuum Gauge Controller Interface B.D. - 1320140

[Return to CD-ROM Table of Contents](#)

Return to Table of Contents

Schematic Gen 10, DI Bd - 1320510

Return to Module Map

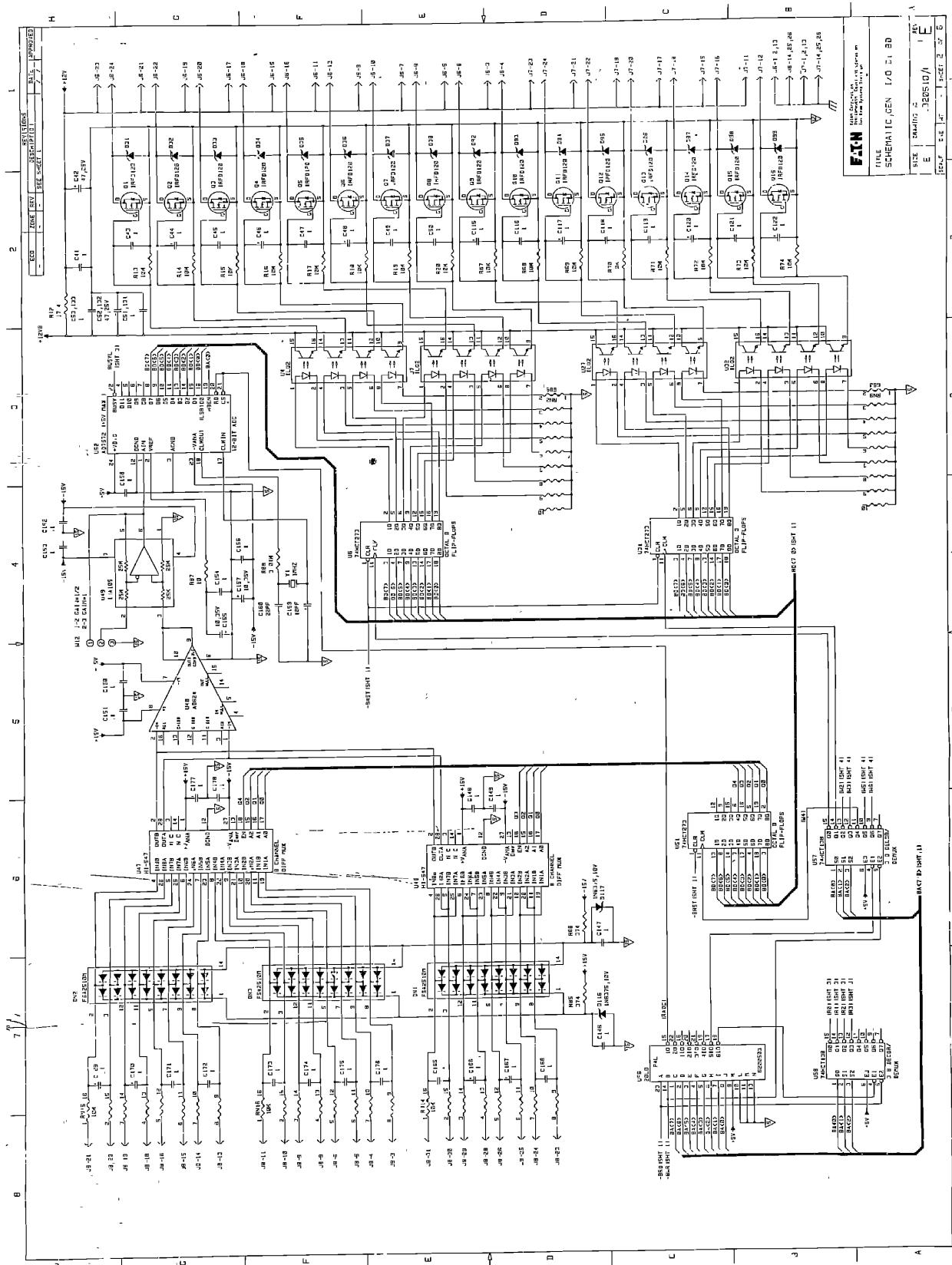


Return to CD-ROM Table of Contents

[Return to Table of Contents](#)

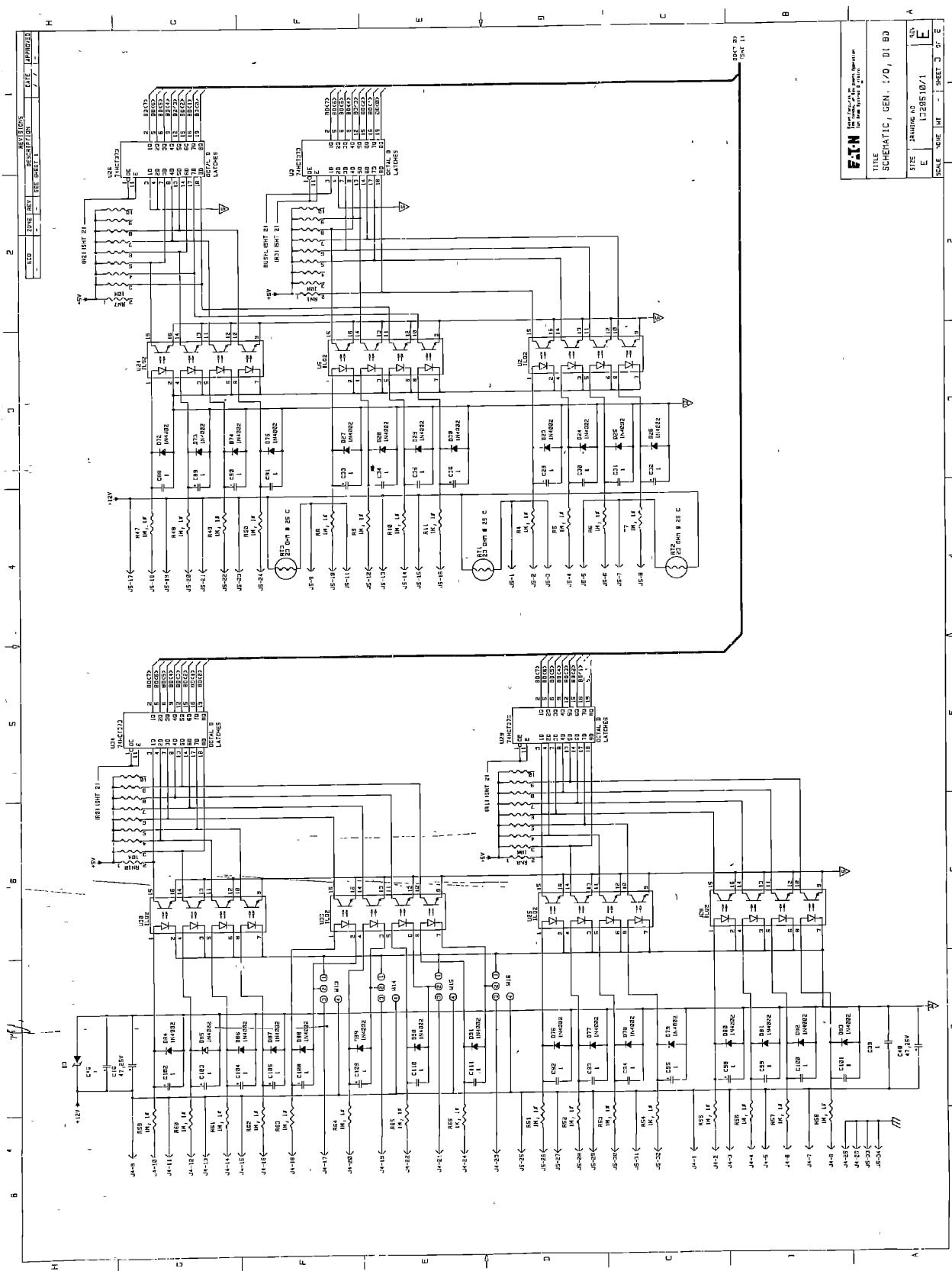
Schematic Gen 10, DI Bd - 1320510

Return to Module Map



[Return to CD-ROM Table of Contents](#)

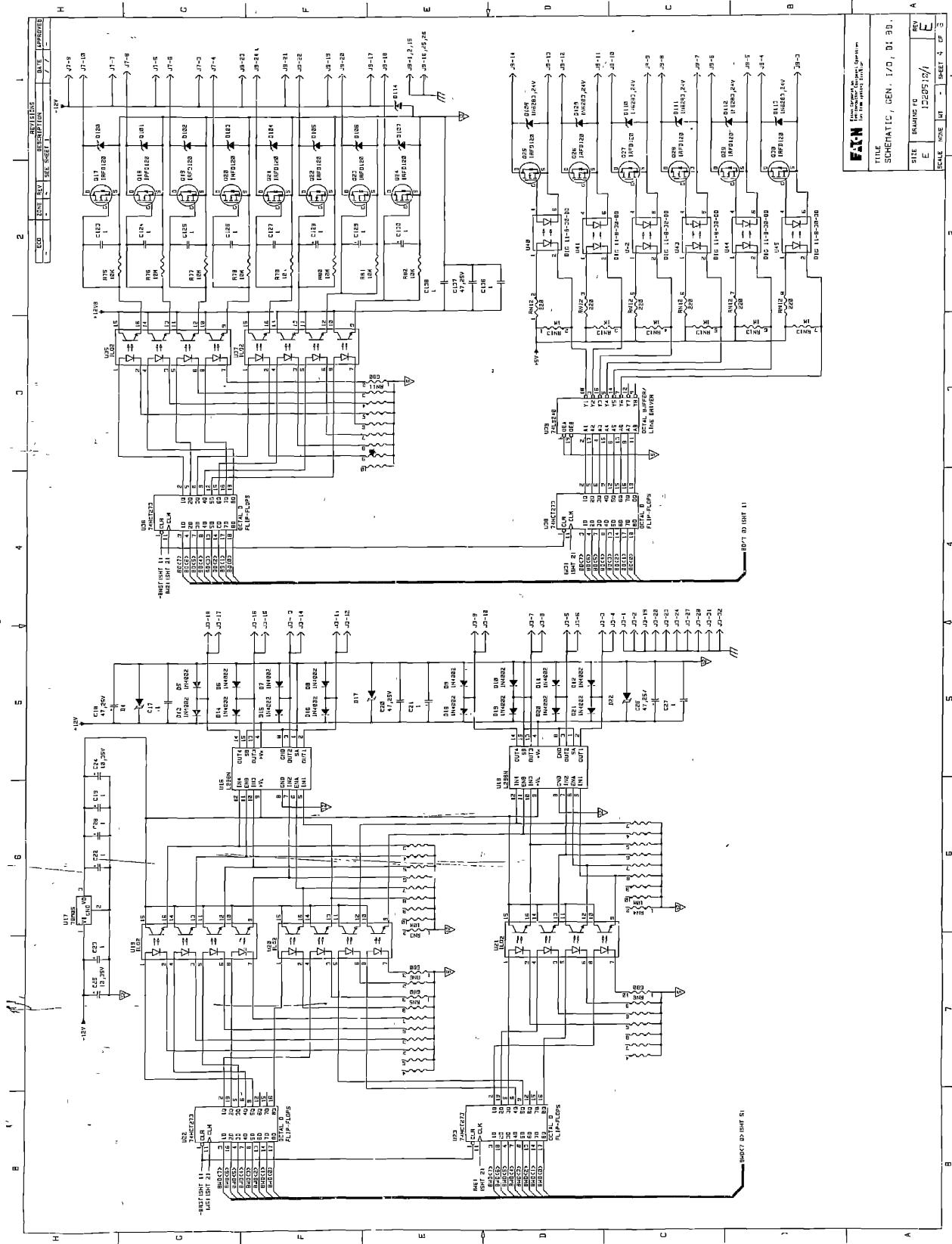
Schematic Gen IO, DI Bd - 1320510



[Return to Table of Contents](#)

Schematic Gen 10, DI Bd - 1320510

Return to Module Map

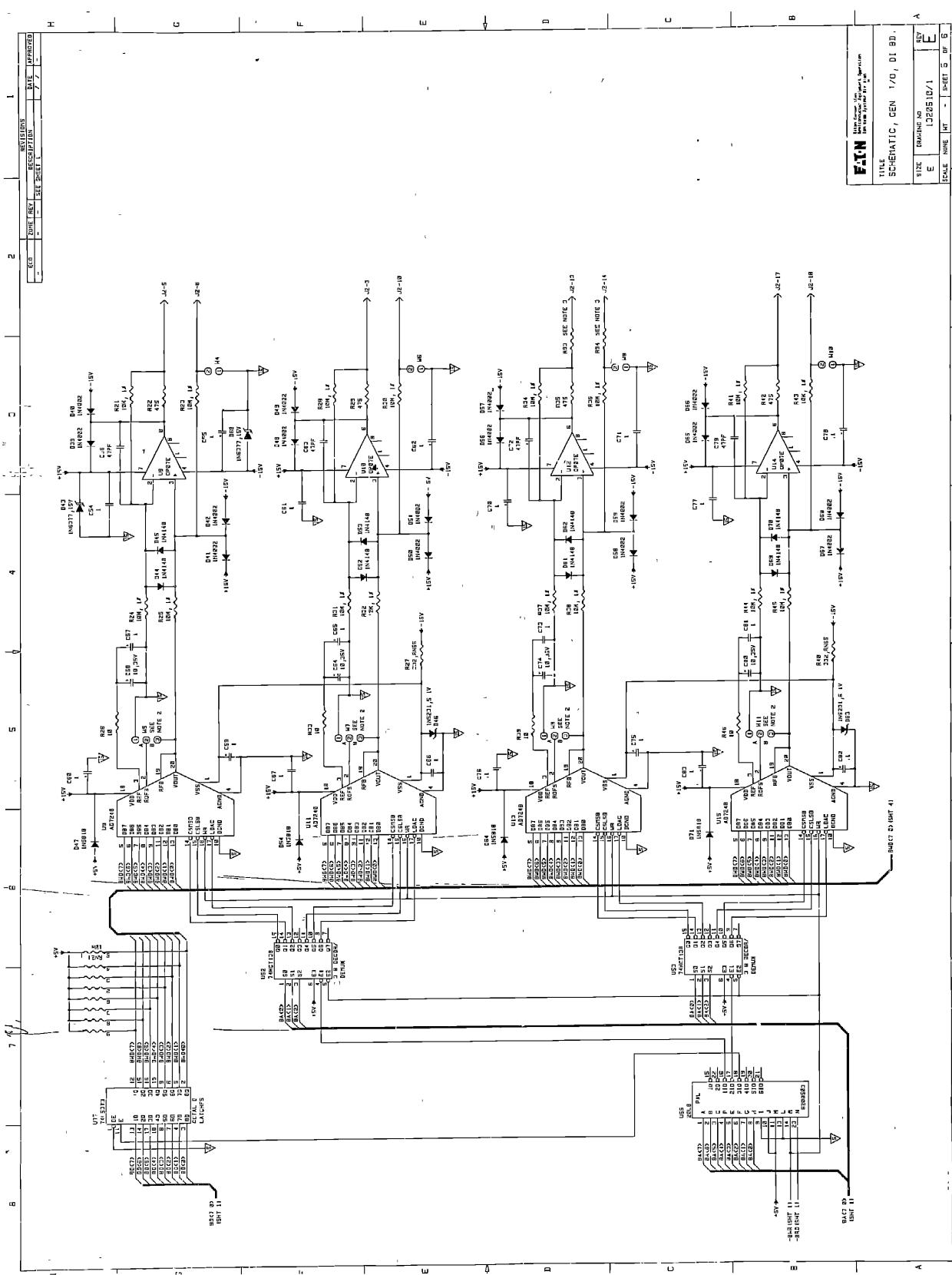


Return to CD-ROM Table of Contents

Return to Table of Contents

Schematic Gen 10, DI Bd - 1320510

Return to Module Map

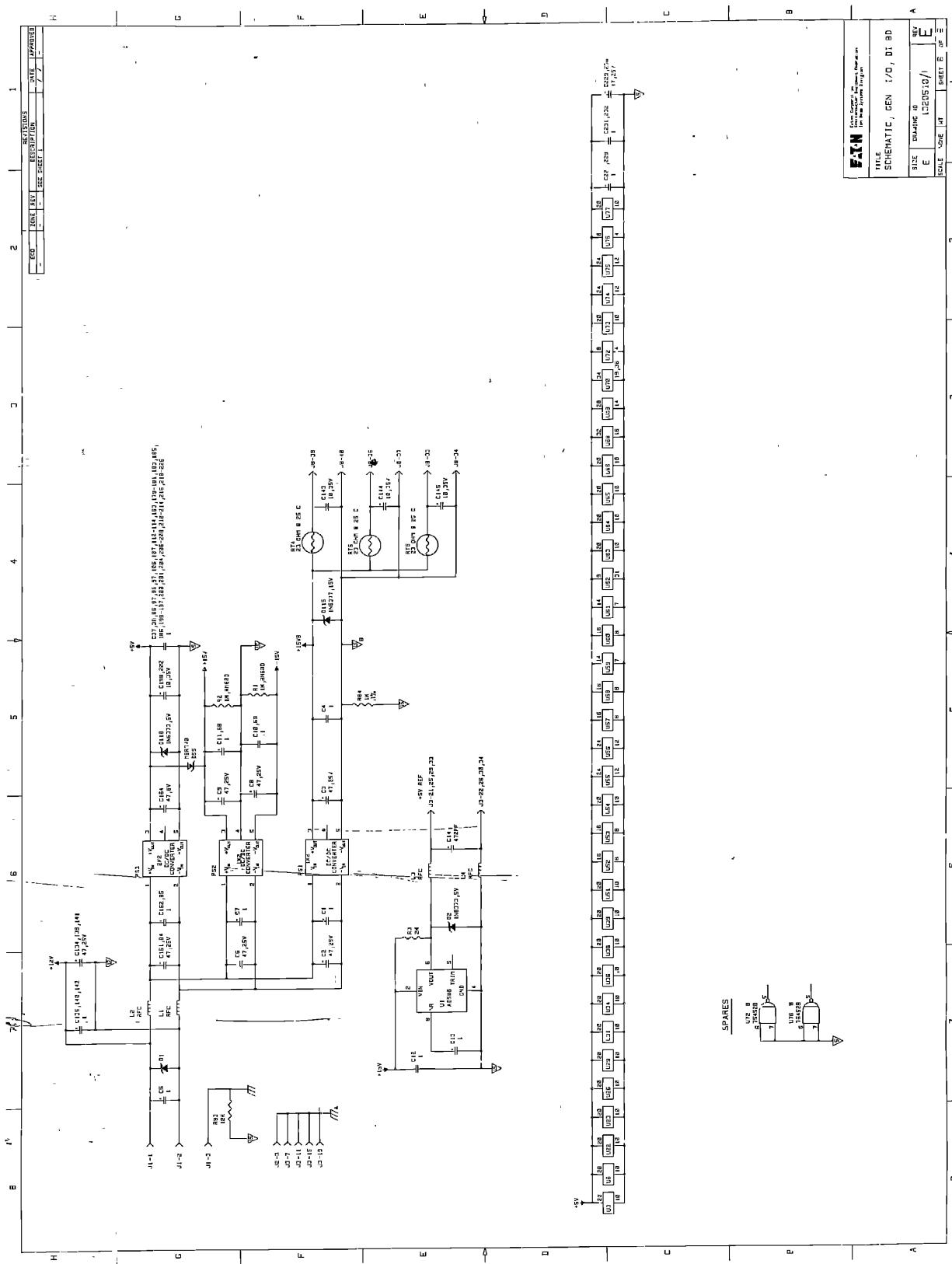


Return to CD-ROM Table of Contents

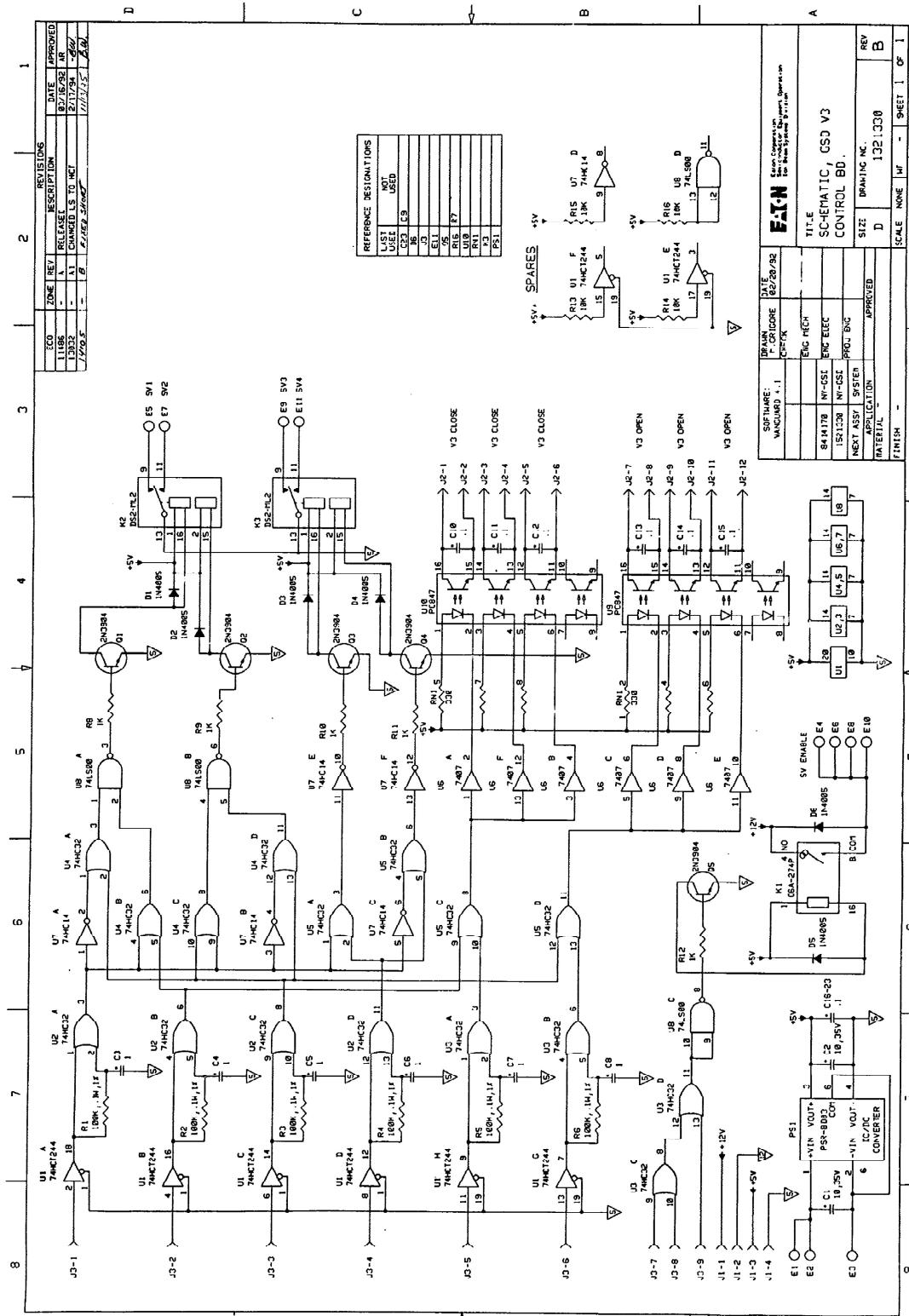
Return to Table of Contents

Schematic Gen IO, DI Bd - 1320510

[Return to Module Map](#)



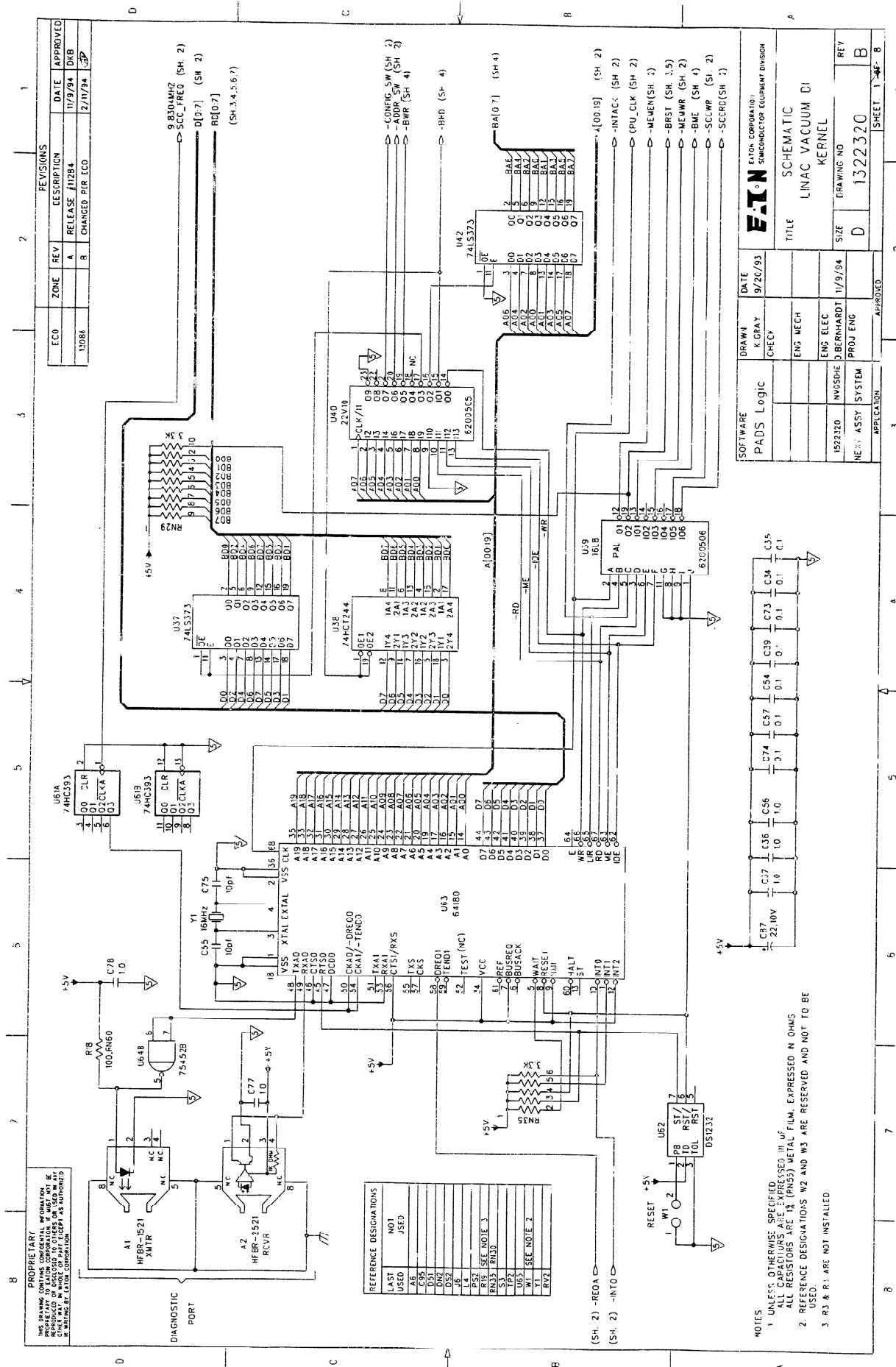
Schematic, GSD v3 Controller BD - 1321330



[Return to Table of Contents](#)

Schematic Linac Vacuum DI - 1322320

Return to Module Map



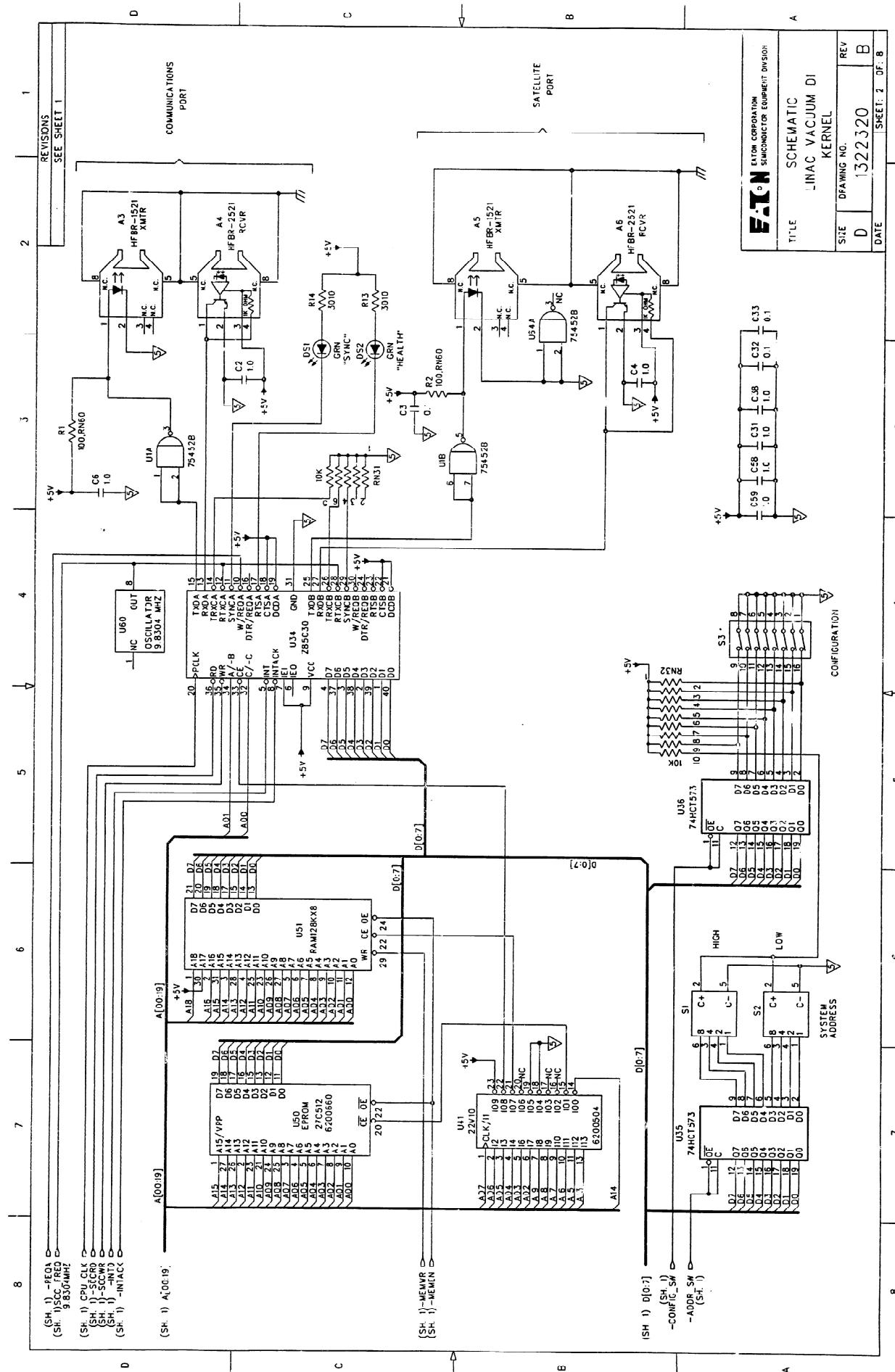
NOTES

1. UNLESS OTHERWISE SPECIFIED, IN U.S. UNITS,
ALL SCAFFOLDS ARE EXPRESSED IN FEET.
2. ALL SEATORS ARE IN RADIUS METRIC FILM, EXPRESSED IN CM'S.
3. REFERENCE DESIGNATIONS W2 AND W3 ARE RESERVED AND NOT TO BE USED.
4. R & R : ARE NOT INSTALLED.

14

Return to CD-ROM Table of Contents

Schematic Linac Vacuum DI - 1322320

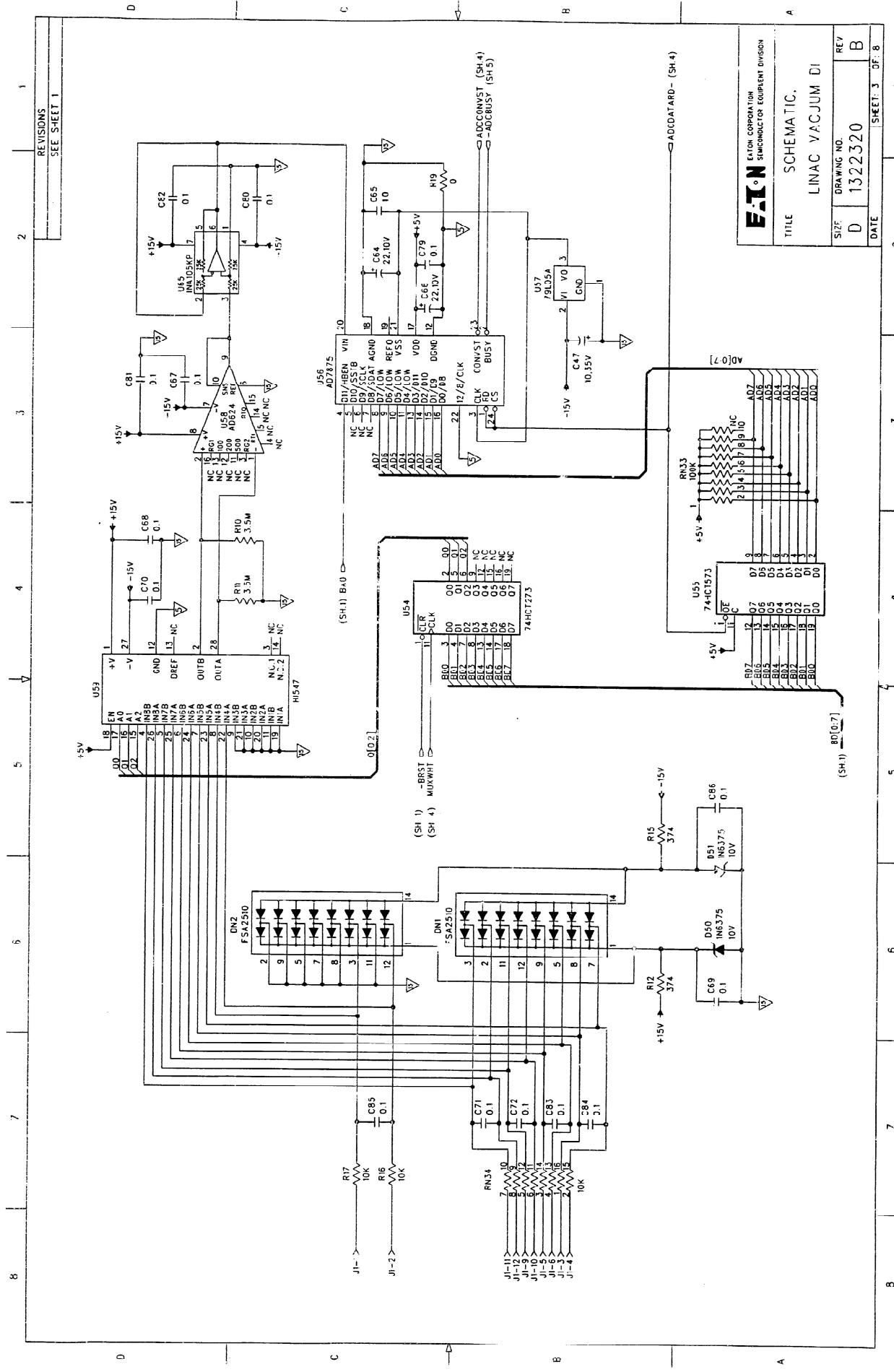


Return to CD-ROM Table of Contents

[Return to Table of Contents](#)

[Return to Module Map](#)

Schematic Linac Vacuum DI - 1322320



[Return to CD-ROM Table of Contents](#)

Schematic Linac Vacuum DI - 1322320

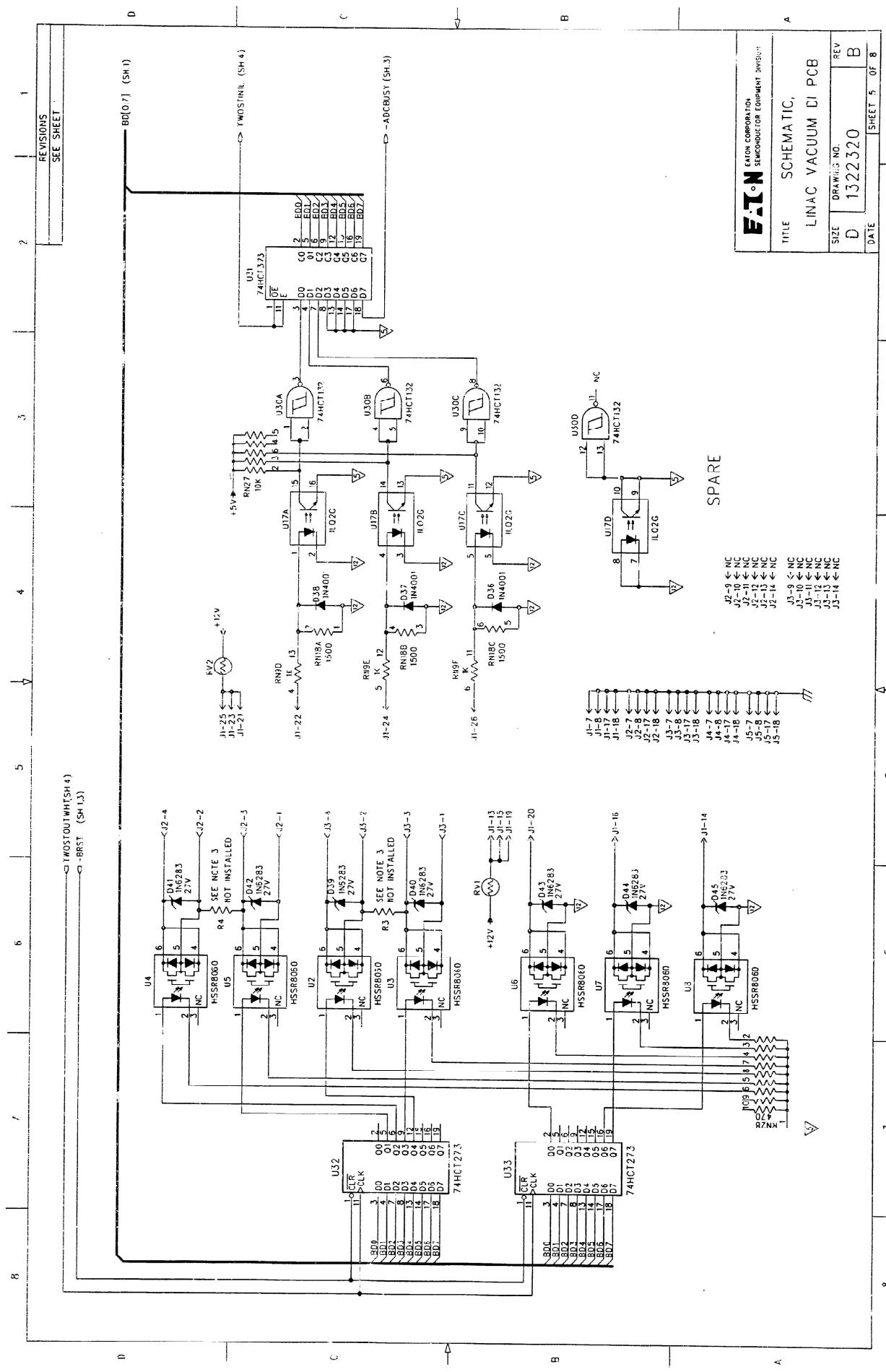
This circuit diagram illustrates a complex digital control system, likely for a counter or timer application. The design utilizes several integrated circuits (ICs) and discrete components to achieve its functionality.

Key Components and Labels:

- 74LS593 Counter:** This IC is used as the primary counter component, with its outputs labeled **(SH.1)**, **(SH.2)**, **(SH.3)**, and **(SH.4)**.
- 74HC152 Latches:** Two latches are present, one controlled by **U45** and another by **U46**. Their outputs are labeled **(SH.5)** and **(SH.6)** respectively.
- 74HC1493 Hex Inverter:** This IC is connected to the **U45** latch's control inputs.
- Logic Gates:** Various logic gates (74HC108, 74HC106A, 74HC106B, 74HC105, 74HC104, 74HC103, 74HC102, 74HC101, 74HC100) are used for signal processing and timing generation.
- Operational Amplifiers:** Four operational amplifiers (**U45**, **U46**, **U47**, **U48**) are configured with feedback capacitors (**C44**, **C45**, **C46**, **C47**, **C48**) and resistors (**R5**, **R68**) to provide specific voltage levels.
- Power Supply:** The circuit is powered by a **+5V** supply.
- Counting and Timing Labels:** Labels such as **COUNTERINL**, **TWOSTINL (SH.6)**, **TWOSTINL (SH.5)**, **TWOSTINL (SH.4)**, **TWOSTINL (SH.3)**, **MUXHAT (SH.3)**, **ADCDATARD-(SH.3)**, **-BWR (SH.1)**, and **620050-4** indicate the function of different sections of the circuit.

EATON CORPORATION SEMICONDUCTOR EQUIPMENT DIVISION		A
TITLE SCHEMATIC,		
LINAC VACUUM DI PCF		
SIZE	DRAWING NO.	REV
D	1322320	B
DATE	SHEET: 4 OF 8	
8	7	6
5	4	3
2	1	

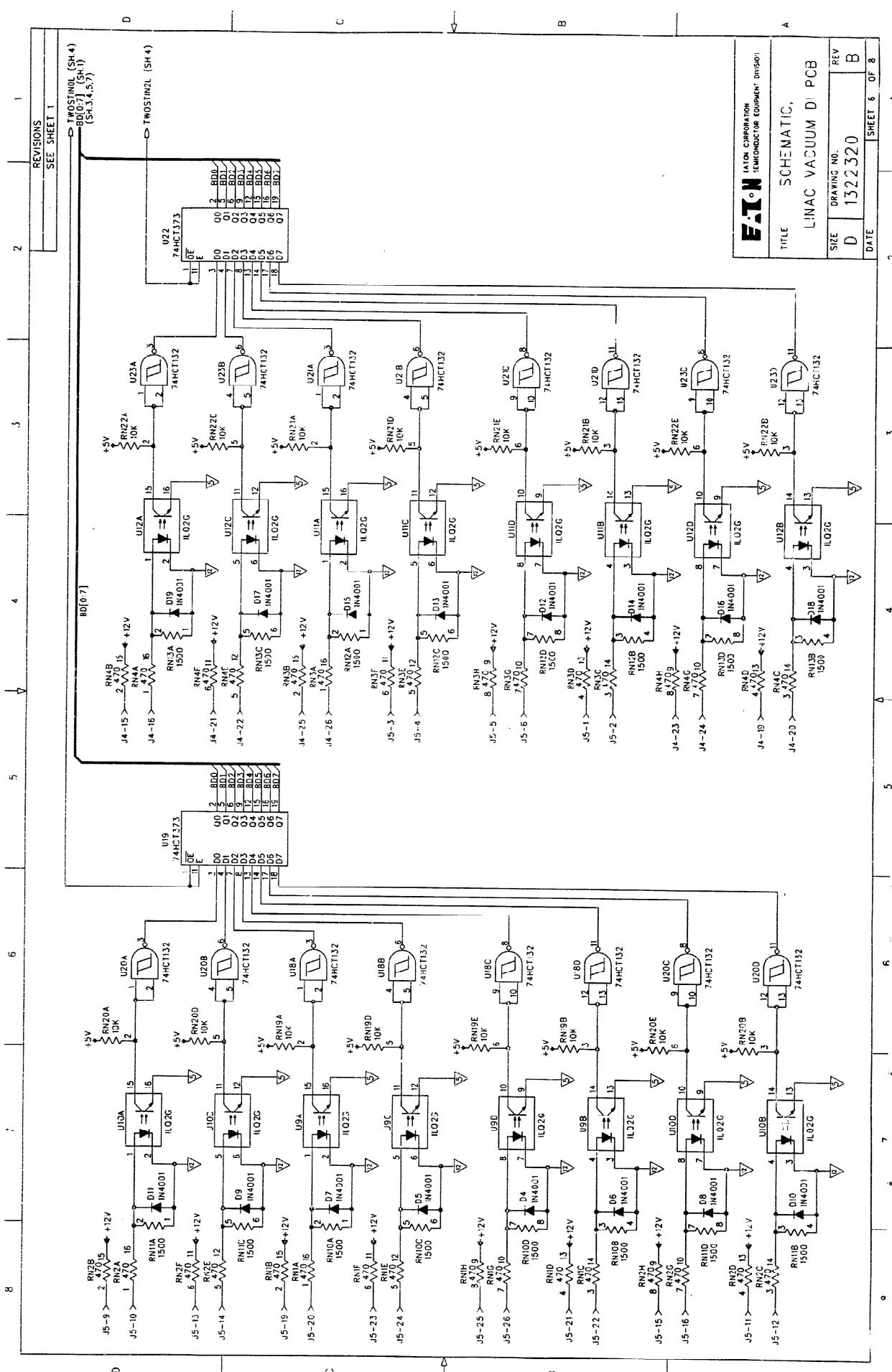
Return to CD-ROM Table of Contents



Return to Table of Contents

Schematic Linac Vacuum DI- 1322320

Return to Module Map

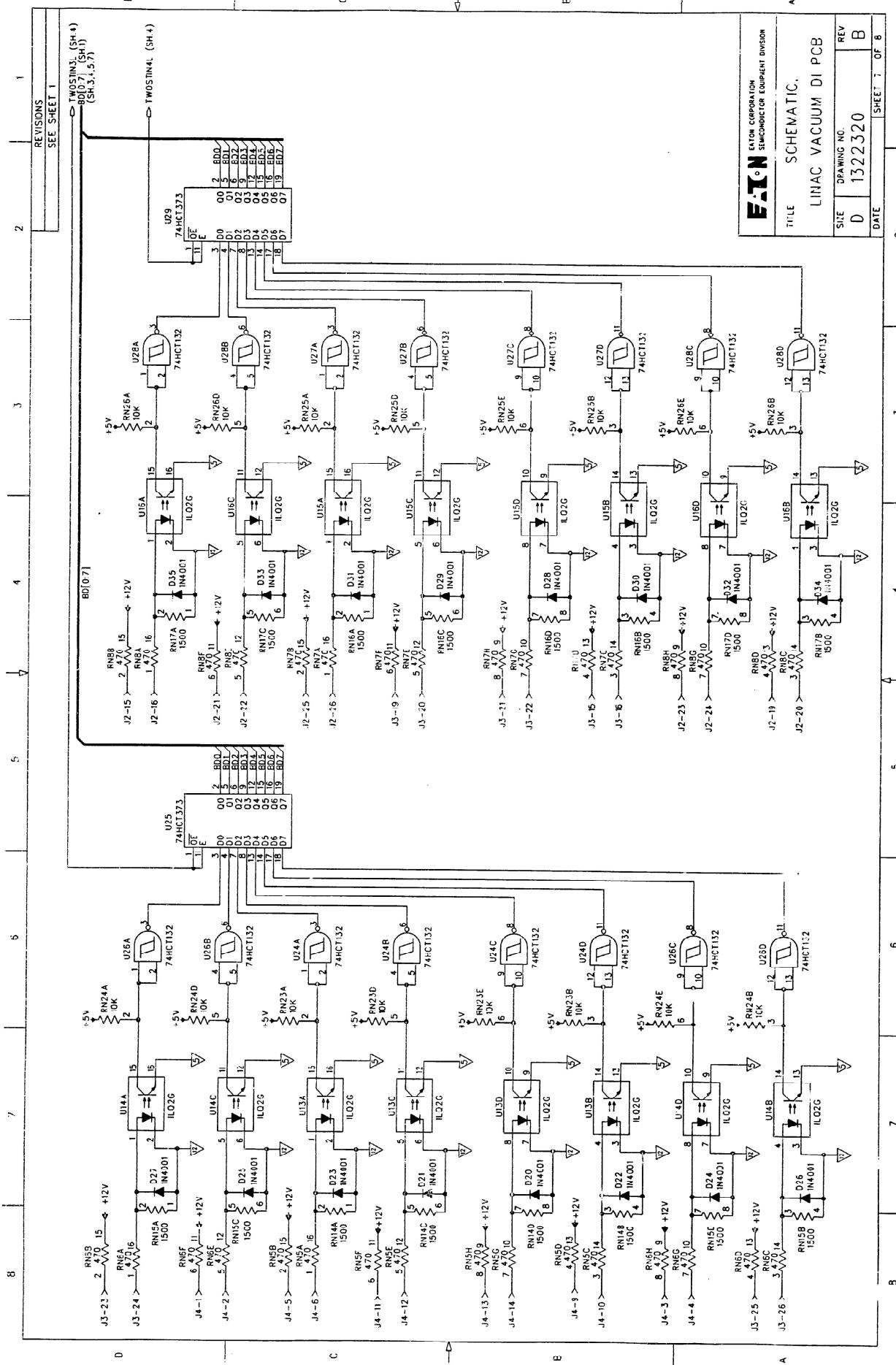


Return to CD-ROM Table of Contents

[Return to Table of Contents](#)

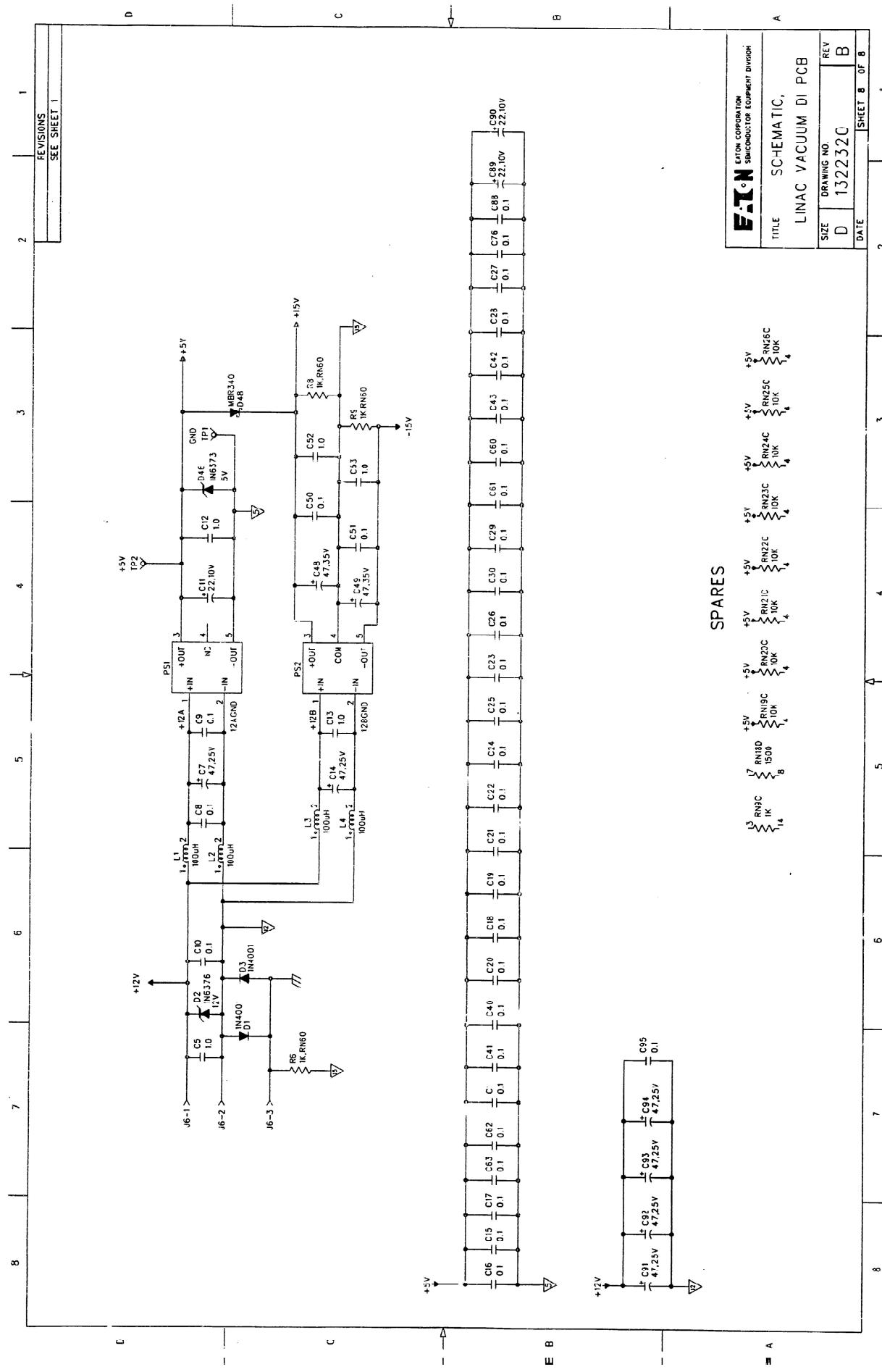
Schematic Linac Vacuum DI-1322320

Return to Module Map



Return to CD-ROM Table of Contents

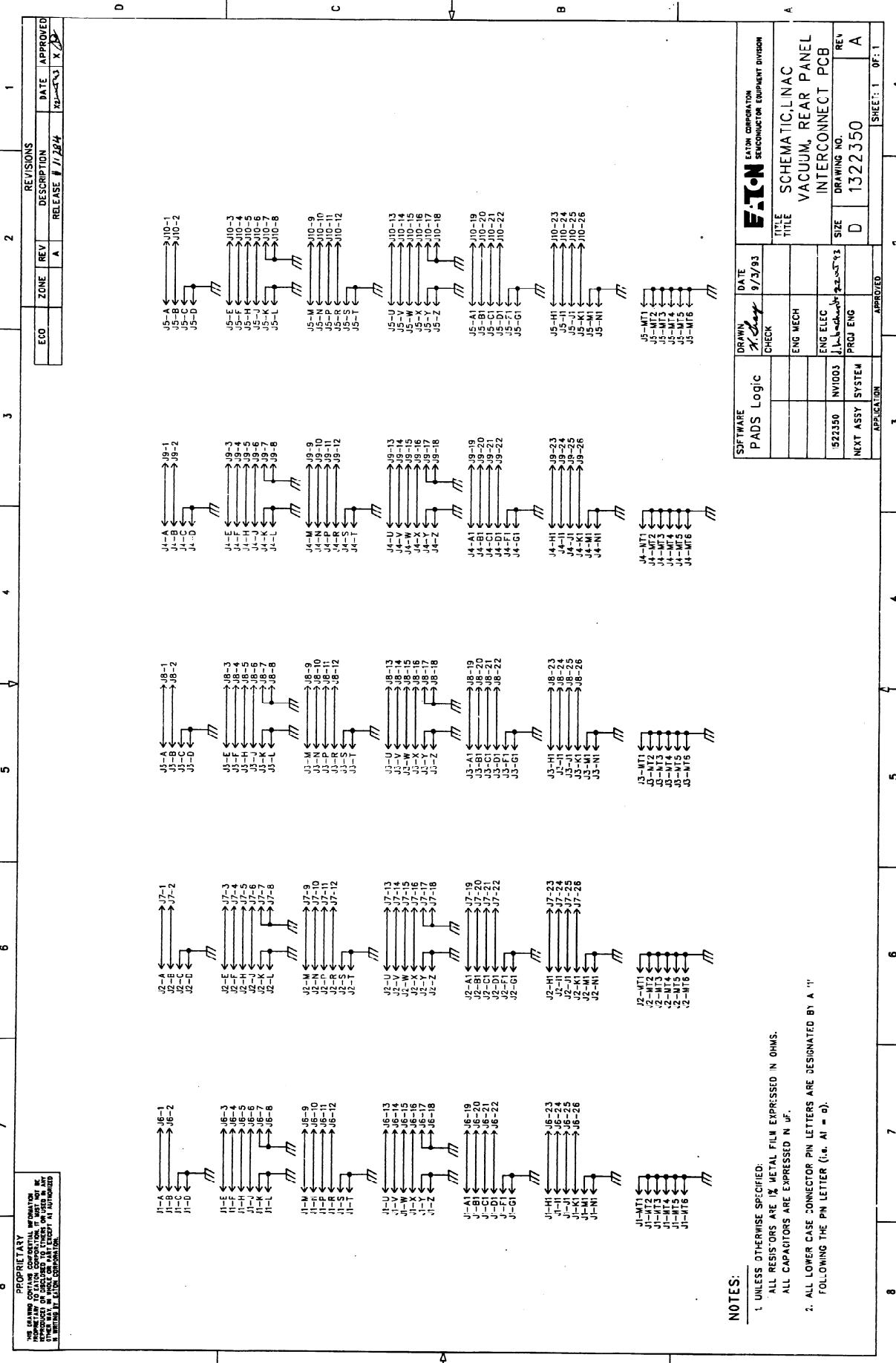
Schematic Linac Vacuum DI-1322320



Return to Table of Contents

Return to Module Map

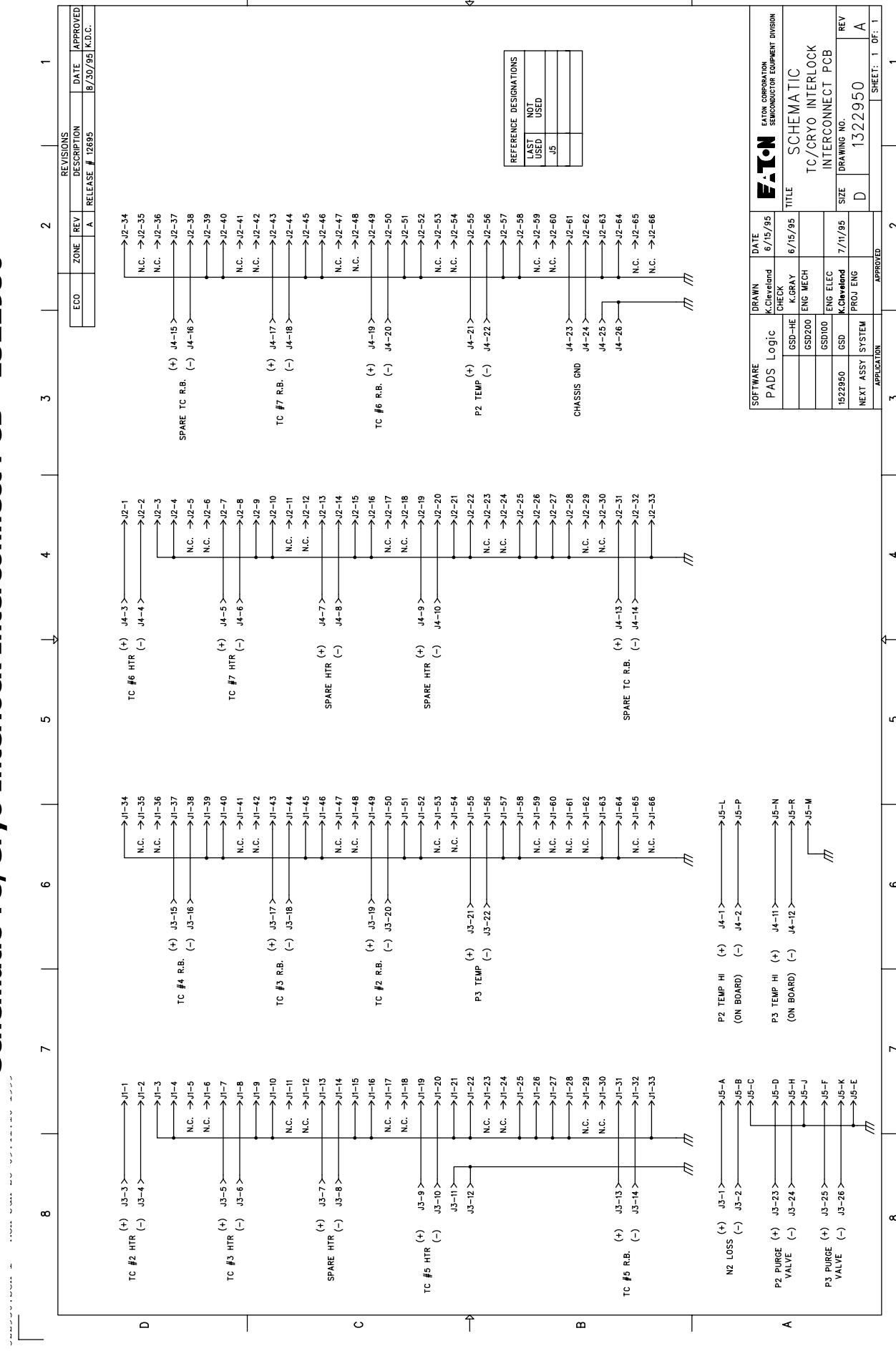
Schematic Vacuum Rear Panel Interconnect - 1322350



Return to Table of Contents

Return to Module Map

Schematic TC/Gryo Interconnect PCB - 1322950

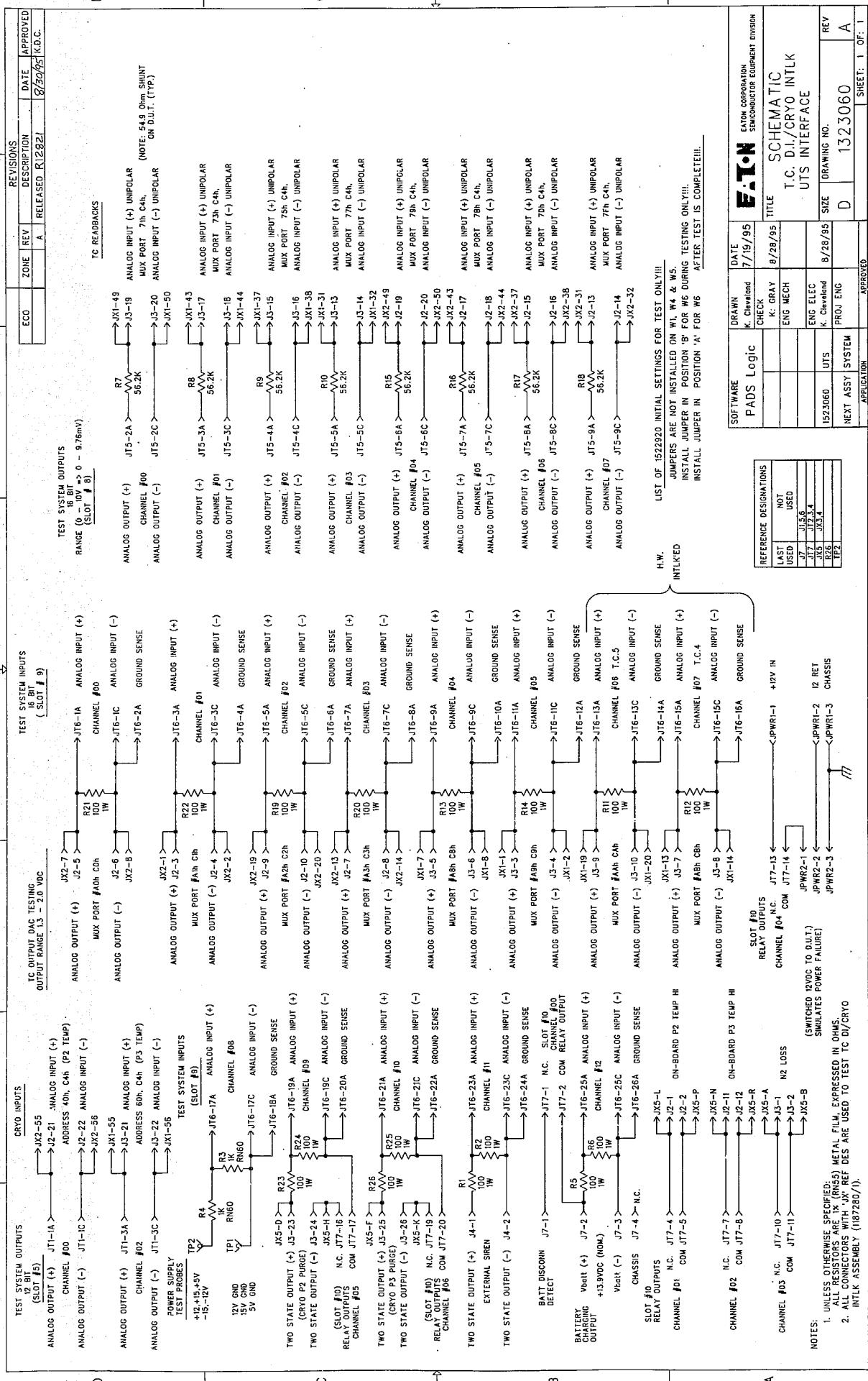


Return to CD-ROM Table of Contents

Return to Table of Contents

[Return](#)

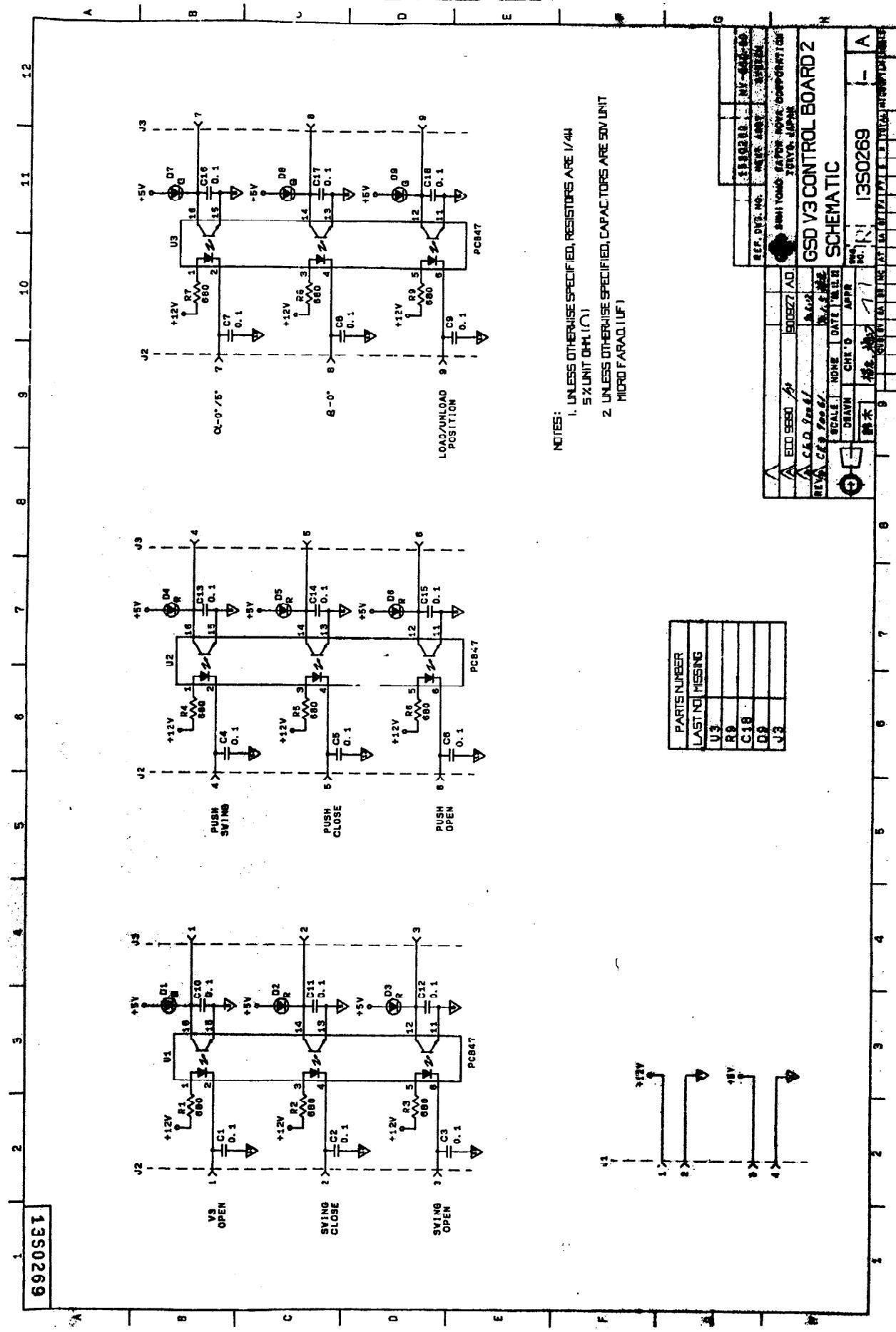
Return to Module M



Return to **CD-BOM Table of Contents**

[Return to Table of Contents](#)[Return to Module Map](#)

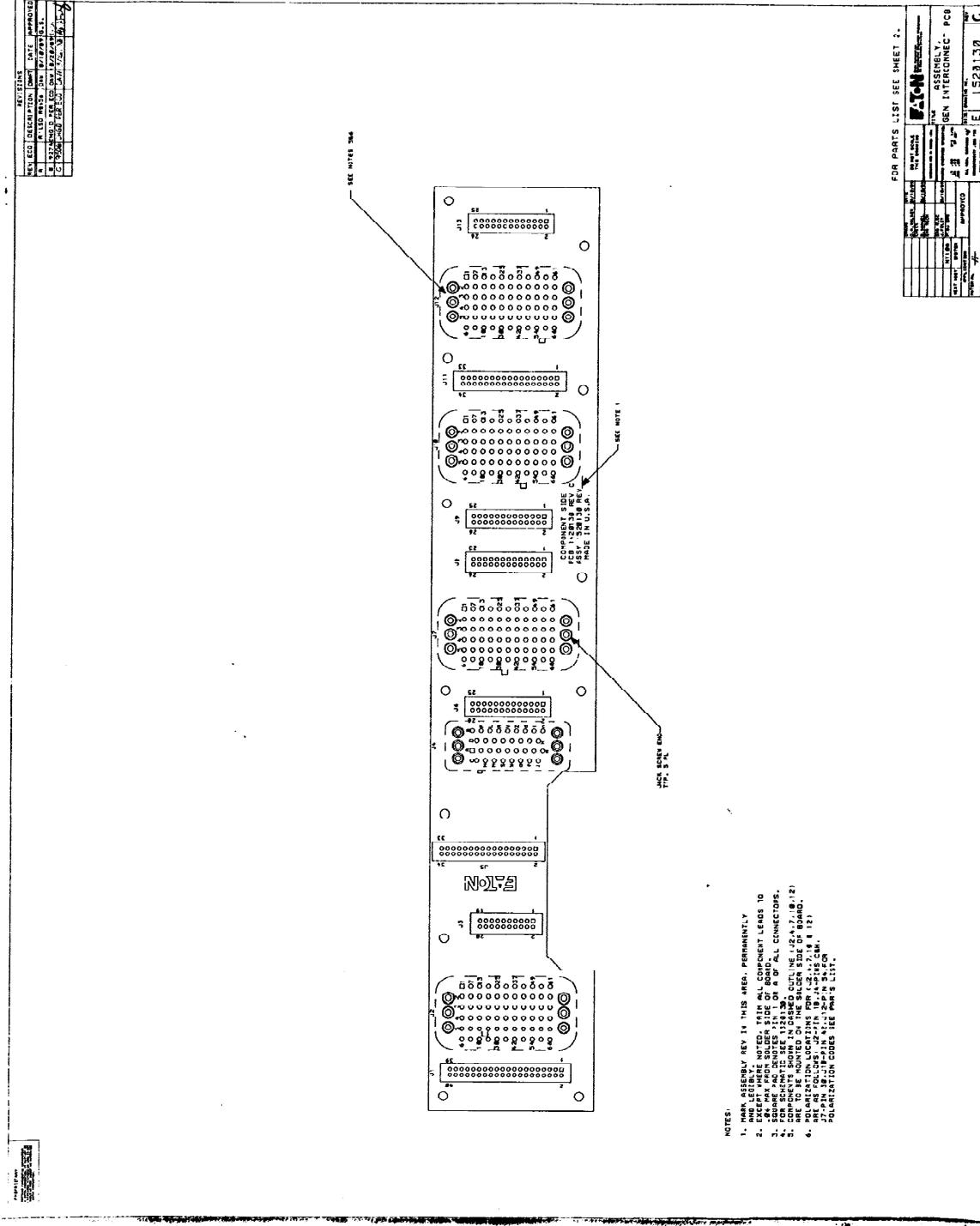
Schematic V3 Control Board #2 - 13s0269

[Return to CD-ROM Table of Contents](#)

[Return to Table of Contents](#)

[Return to Module Map](#)

PCB General Interconnect - 1510130

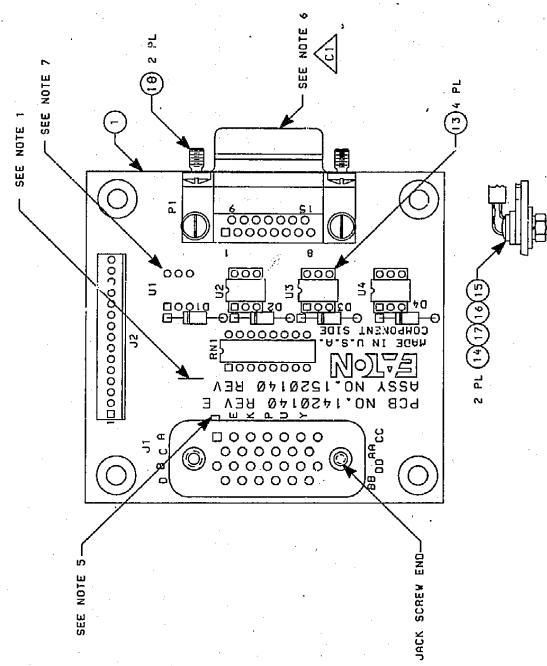


[Return to CD-ROM Table of Contents](#)

Assembly Vacuum Gauge Controller Interface PCB - 1520140

PROPRIETARY

This document contains confidential information.
It is intended for Eaton Corporation employees
and contractors or others who have a valid
need-to-know. It must be kept secure and
not distributed outside of Eaton's facilities
or to anyone other than those specifically
authorized by Eaton.



60

- MARK ASSEMBLY REV IN THIS AREA, PERMANENTLY AND
LEGIBLY.
EXCEPT WHERE NOTED, TRIM ALL COMPONENT LEADS TO
SOLDER SIDE OF BOARD.
1. 650W FROM SOLDER SIDE OF BOARD.
2. SQUARE PAD DEPICTS PIN 1 OF I.C.'S
3. NETWORK CONNECTOR FOR DIODES AND A F
4. FOR SCHEMATIC SEE 1220149.
5. POLARIZATION LOCATION FOR J1 IS PIN A,
6. FOR POLARIZATION CODE SEE PARTS LIST.
7. REMOVE AND DISCARD CROSSES SUPPLIED WITH P1.

REV.	ECO	DESCRIPTION	DRAFT	DATE	APPROVED
		REVISIONS			
A	A	RLE, R891	DAN	1/10/89	
B	9-405	REVISED JI	K.O.	1/8/90	G.S.
C	9-94	REVISED	DAN	3/28/90	G.S.
C	9-139	REVISED	DAN	8/20/90	T.D.
D	109-63	REVISED	KG	11/22/90	T.D.
D	9984	REVISED	KG	8/22/91	G.S.
D	124-51	REVISED U1	KG	6/7/93	G.S.
D	03149	P/L UPDATE	KG	11/21/94	
E	119-31	DEL. UPHR(U1)	KRG	11/7/96	V.REED

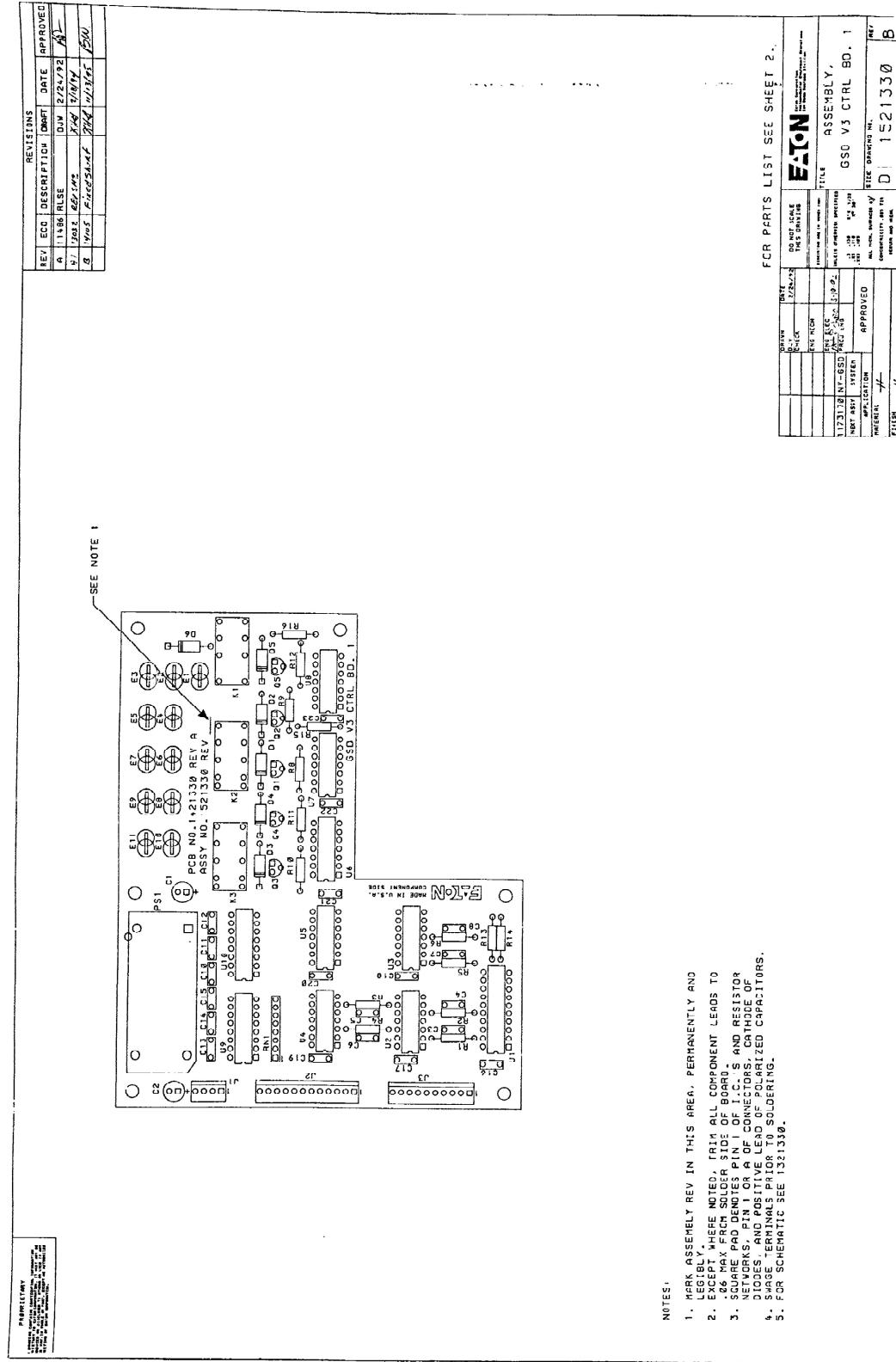
W01E3:

Return to CD-ROM Table of Contents

[Return to Table of Contents](#)

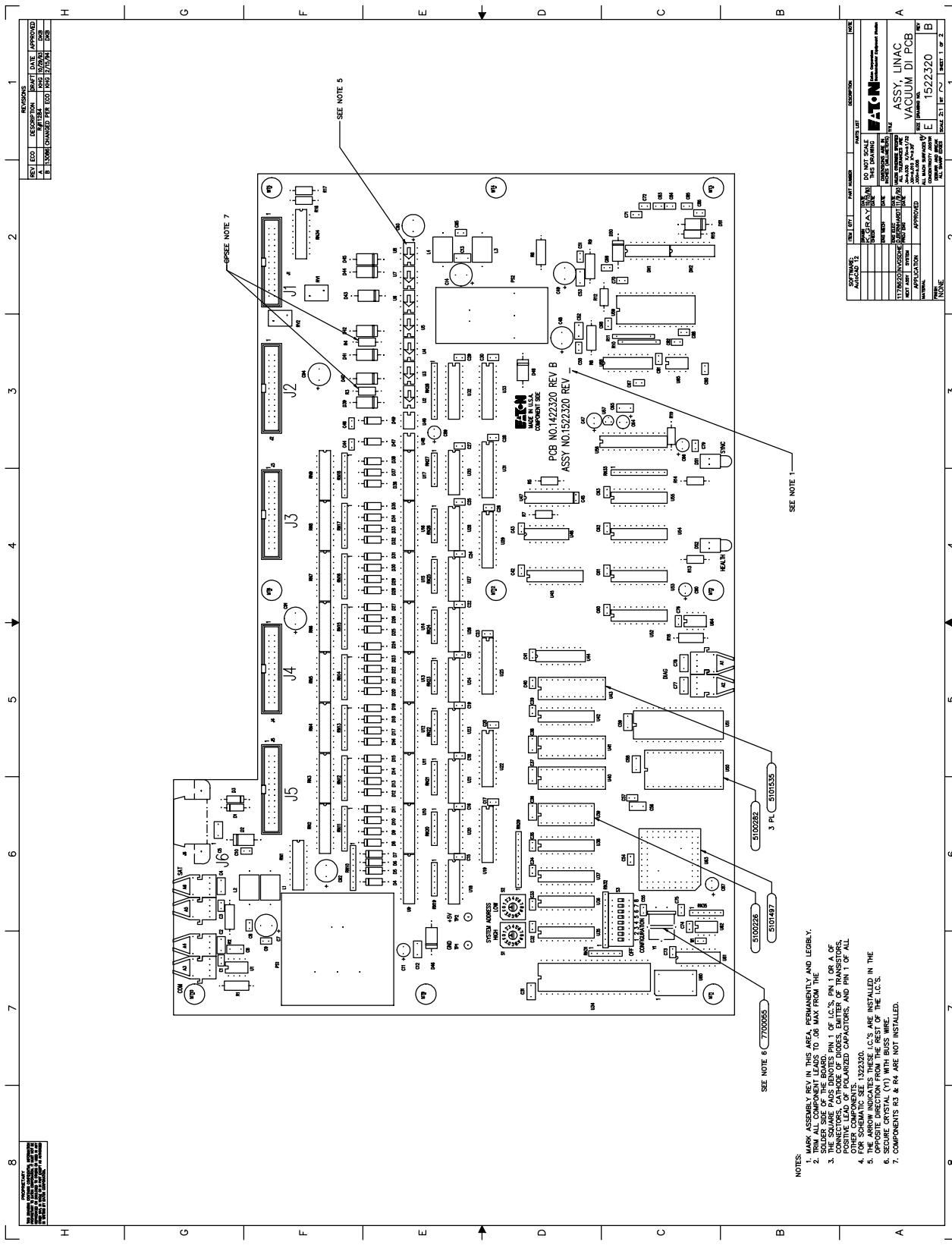
[Assembly, GSD V3 Controller - 1521330](#)

[Return to Module Map](#)



[Return to CD-ROM Table of Contents](#)

Assy Linac DI PCB - 1522320



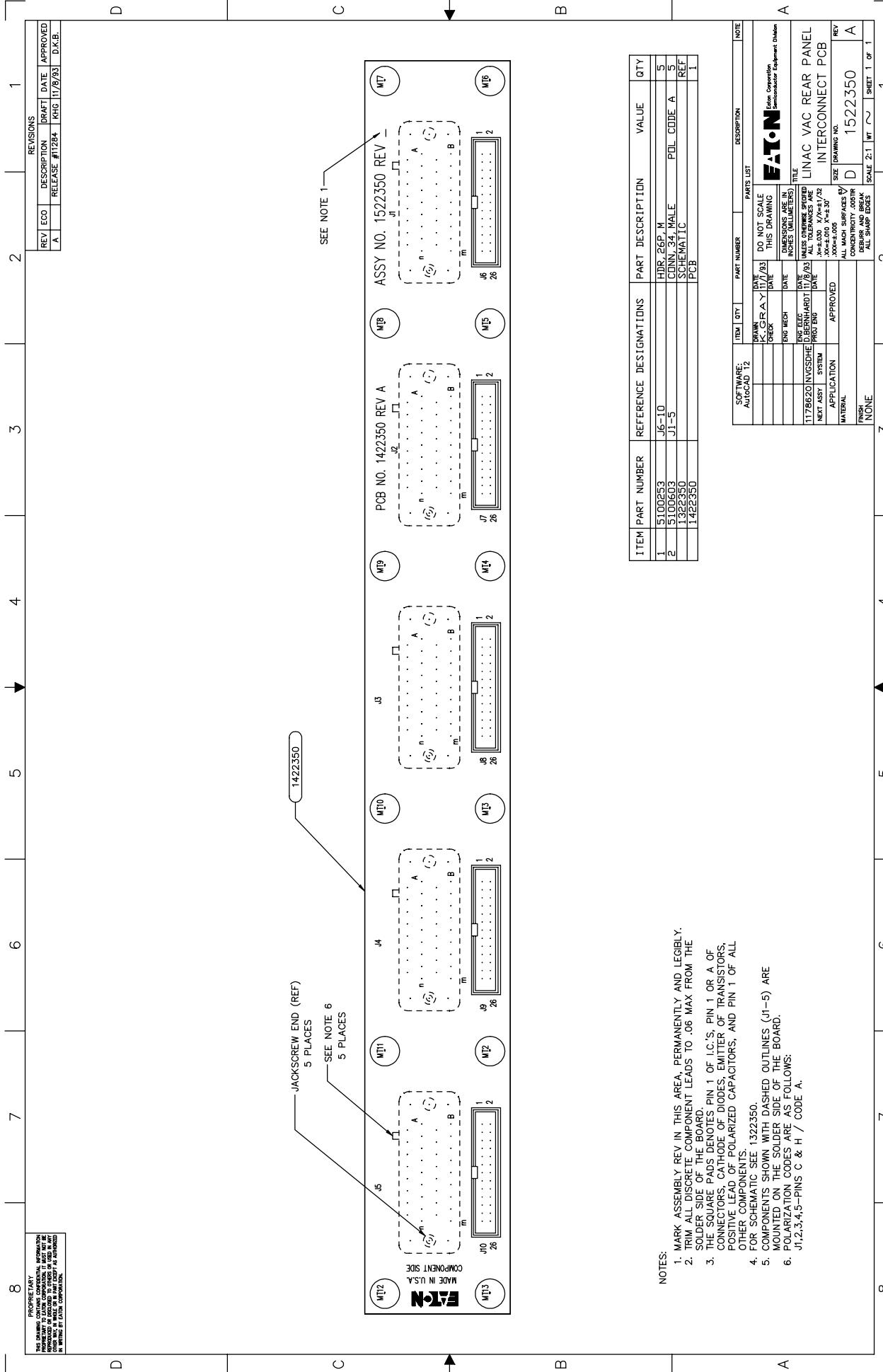
Return to Table of Contents

Return to Module Map

Linac Vac Rear Panel Interconnect PCB - 1522350

Proprietary
Information
The drawings contain confidential information
and are the sole property of EATON Corporation.
They are to be used only by authorized personnel
of EATON Corporation or its subcontractors.
Reproduction or disclosure to others is prohibited
without written permission from EATON Corporation.
EATON and the Eaton logo are registered trademarks
of Eaton Corporation. All other trademarks are
the property of their respective owners.

REVISIONS			
REV	ECO	DESCRIPTION	DRAFT DATE / APPROVED
A		RELEASE #17254 KMG	11/6/93 D.K.B.



ITEM	PART NUMBER	REFERENCE DESIGNATIONS	PART DESCRIPTION	VALUE	QTY
1	5100253	J6-10	HHR 26P M CONN, 34, MALE	5	
2	5100533	J1-5	SCHMATIC	1	
	1322350		PCB		
	1422350				

SOFTWARE	ITEM	ITEM	PART NUMBER	REFERENCE DESIGNATION	PART DESCRIPTION	VALUE	QTY	NOTE
AutoCAD 12	BRK	BRK	DATE	DO NOT SCALE				
	CHECK	CHECK	DATE	THIS DRAWING				
				IS DRAWING				
				DIMENSIONS ARE IN				
				INCHES. UNLESS OTHERWISE SPECIFIED				
				UNLESS OTHERWISE SPECIFIED				
				ALL MACH SURFACES				
				CONCENTRIC, COIN				
				LINEAR, SHARP EDGES				
				PROT BIG				
				APPROVED				
				MATERIAL				
				RESIN				
				NONE				

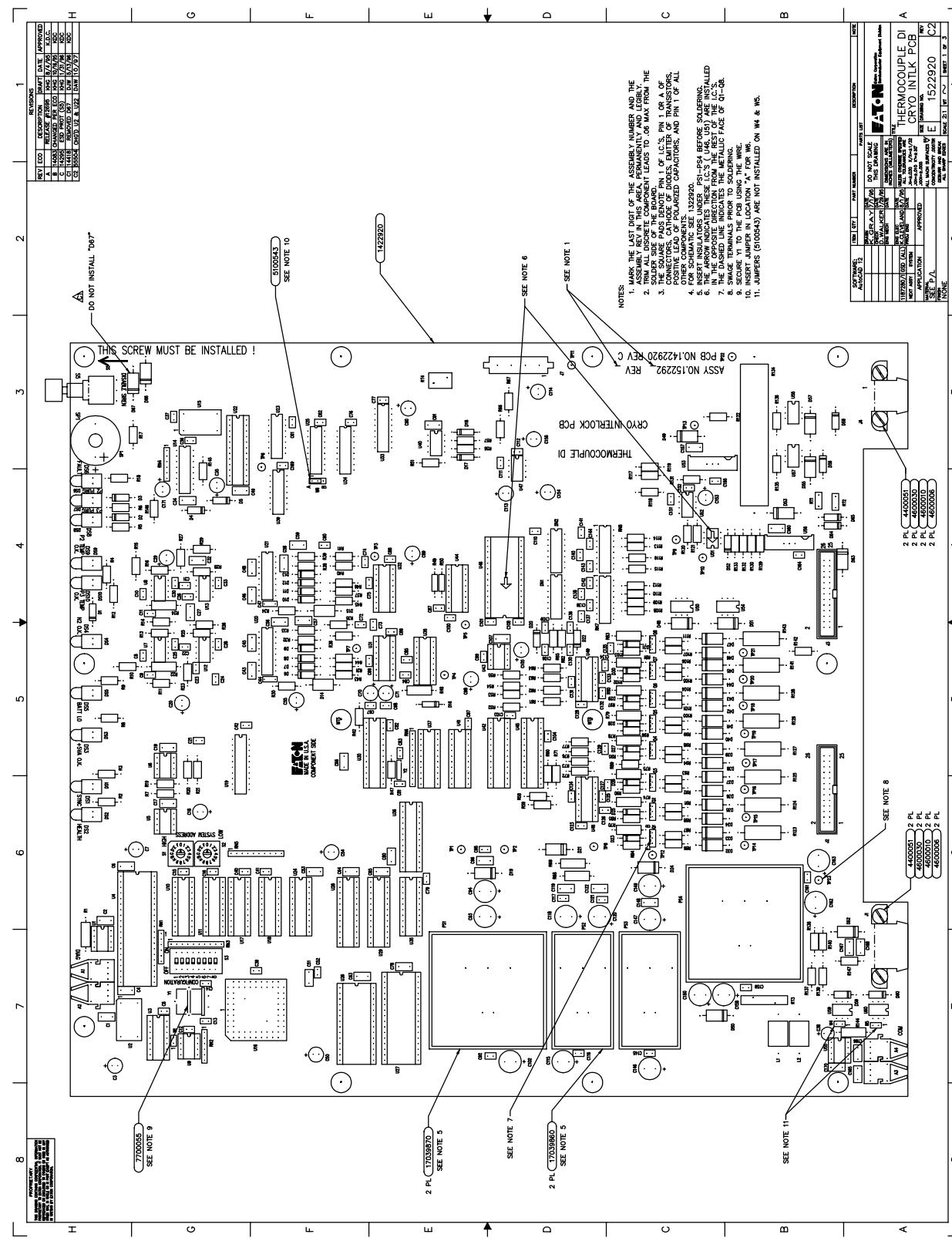
- NOTES:
1. MARK ASSEMBLY REV IN THIS AREA, PERMANENTLY AND LEGIBLY.
 2. TRIM ALL DISCRETE COMPONENT LEADS TO .06 MAX FROM THE SOLDER SIDE OF THE BOARD.
 3. THE SQUARE PADS DENOTES PIN 1 OF IC'S, PIN 1 OR A OF CONNECTORS, CATHODE OF DIODES, Emitter OF TRANSISTORS, POSITIVE LEAD OF POLARIZED CAPACTIORS, AND PIN 1 OF ALL OTHER COMPONENTS.
 4. FOR SCHEMATIC SEE 1322350.
 5. COMPONENTS SHOWN WITH DASHED OUTLINES (J1-5) ARE MOUNTED ON THE SOLDER SIDE OF THE BOARD.
 6. POLARIZATION CODES ARE AS FOLLOWS:
J1,2,3,4,5-PINS C & H / CODE A.

Return to CD-ROM Table of Contents

[Return to Table of Contents](#)

[Return to Module Map](#)

Thermocouple DI Cryo Intlk PCB - 1522920



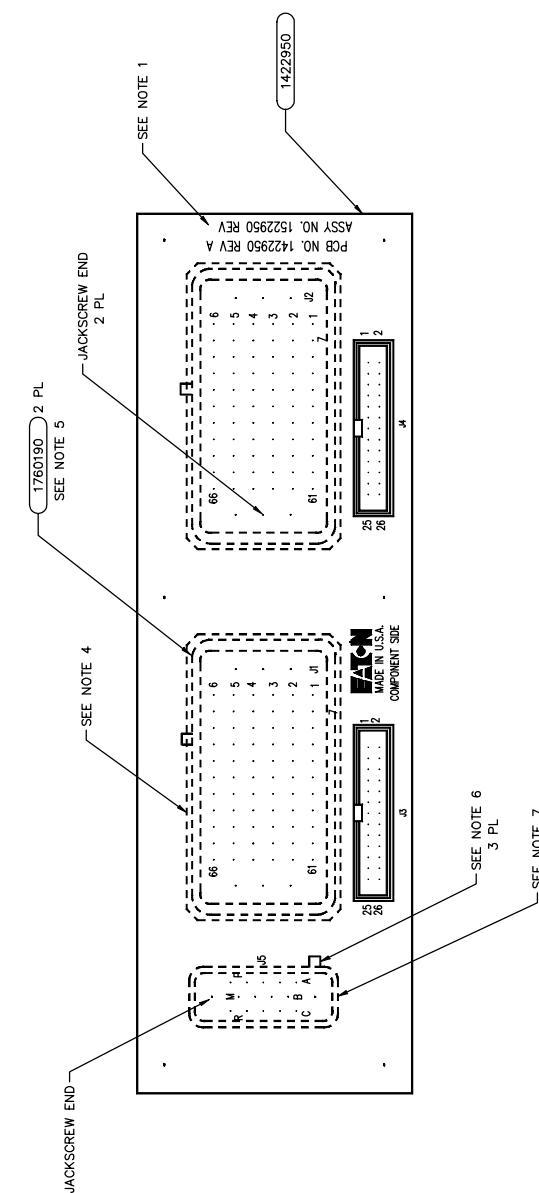
[Return to CD-ROM Table of Contents](#)

Return to Table of Contents

Return to Module Map

TC/Cryp Interlock Interconnect PCB - 1522950

PROPRIETARY
THIS DRAWING CONTAINS CONFIDENTIAL INFORMATION
PROPRIETARY TO EATON CORPORATION. IT MUST NOT BE
REPRODUCED OR DISCLOSED TO OTHERS OR USED IN ANY
OTHER WAY, IN WHOLE OR IN PART EXCEPT AS AUTHORIZED
IN WRITING BY EATON CORPORATION.



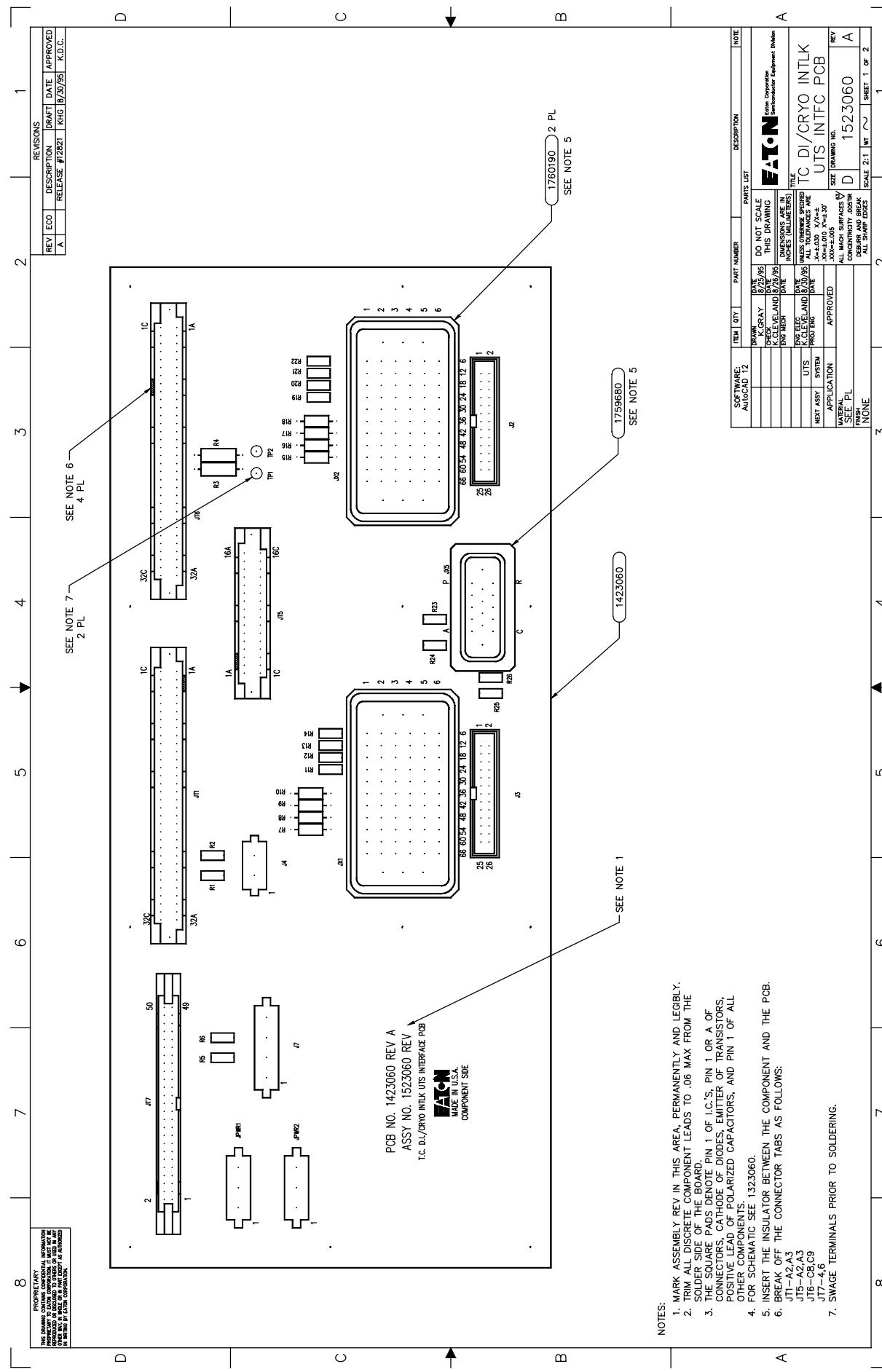
ITEM	PART NUMBER	REFERENCE DESIGNATIONS	PART DESCRIPTION	VALUE	QTY
1	5100733	J1	CONN, M, 6GP, POL A	1	
2	5100734	J2	CONN, M, 6GP, POL B	1	
3	5100835	J3-4	CONN, 4P, M, POL A	2	
4	5101750		HDR, 26P, N		
			SCHEMATIC		REF
			PCB		1
			INSULATOR		2
			J1 & J2		
			FOR		

Return to CD-ROM Table of Contents

Return to Table of Contents

TC DI/cryo Intlk UTs Intfc PCB - 1523060

[Return to Module Map](#)



Return to Table of Contents

PCB V3 Control Board #2-15s0269

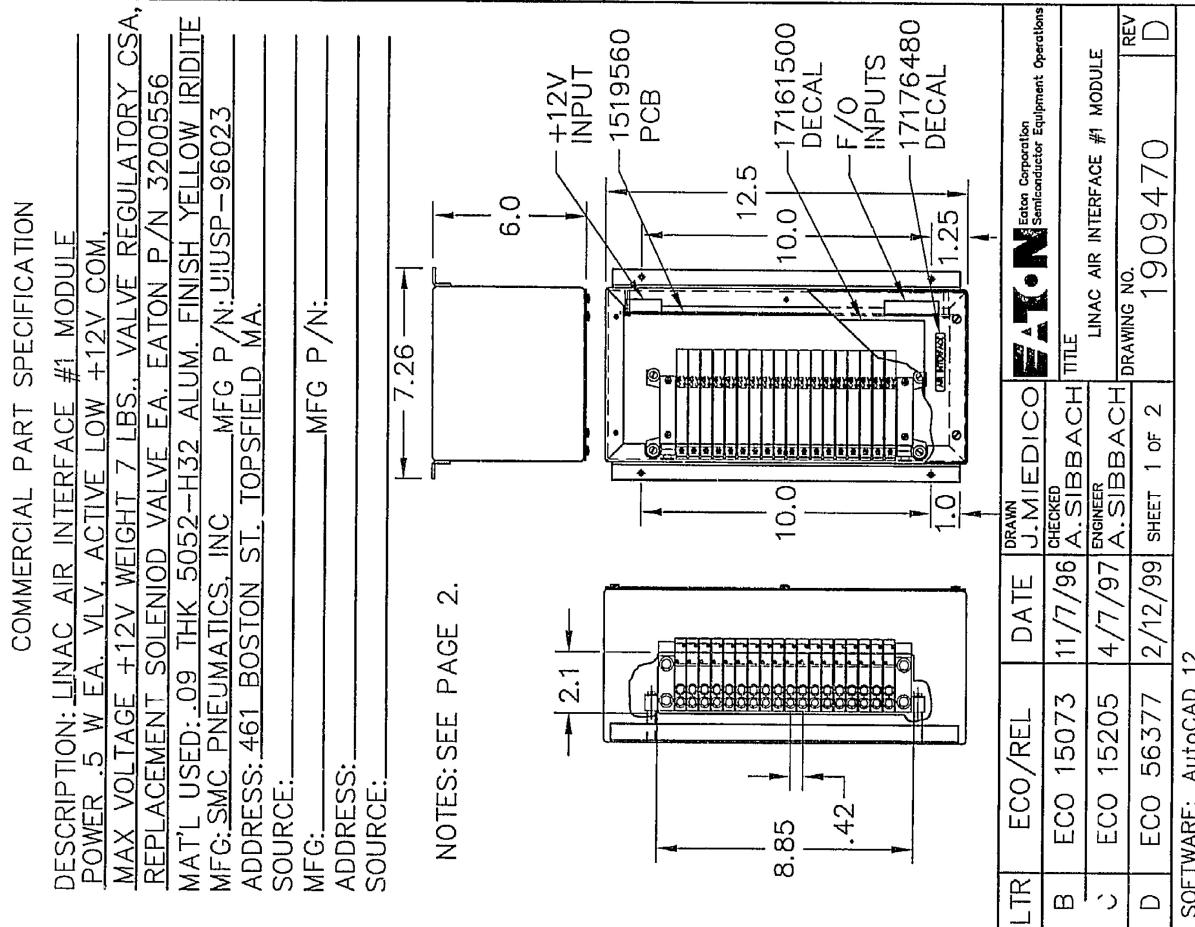
[Return to Module Map](#)

Return to CD-ROM Table of Contents

[Return to Table of Contents](#)

[Return to Module Map](#)

Linac Air Interface #1 Module - 1909470



Linac Air Interface #1 Box/Cable—configuration

△

Signal Name/ Valve Designation	Connector	P1 Manifold Station	Port A Port B	Wire Color
SV10-V65 open	J5-1	1	N7	PP
SV9-V64 open	J6-1	14	N7	PP
SV8-V63 open	J7-1	2	N7	PP
SV7-V62 open	J8-1	15	N7	PP
SV6-V61 open	J9-1	3	N7	PP
SV5-V60 open	J10-1	6	N7	PP
SV4-V59 open	J11-1	4	N7	PP
SV3-V58 open	J12-1	17	N7	PP
SV2-V57 open	J13-1	5	N7	PP
SV1-Injector Faraday Cup	J14-1	18	10	N7
Blanking Plate	-	11	PP	PP
Blanking Plate	-	12	PP	PP
Blanking Plate	-	13	PP	PP
Blanking Plate	-	14	PP	PP
Blanking Plate	-	15	PP	PP
Blanking Plate	-	16	PP	PP
Blanking Plate	-	17	PP	PP
Blanking Plate	-	18	PP	PP
+12V Bus Supply	J5-2	9		Gray/Black
+12V Bus Supply	J14-2	22		Pink/Red
+12V Discrete Supply-SV9				

Terminal— The reference 2 pin connector and pin number on the interface circuit card assembly
P1—25 pin D-type connector to valve manifold.
N7—One Touch Poly-flo fitting for 1/4" OD tubing.
PP—Port Plug.

Note: manifold Station 1 is closest to the D connector, station 18 is furthest away.
Set address of Station 1 to jumper from PCB #1519560 at S1=2 and S2=6.
Remove W1 jumper from PCB #1519560.
MAX. PRESSURE = 100 PSI.

△

EATON Eaton Corporation Semiconductor Equipment Operations
1909470 REV D DRAWING NO. 2 OF 2 D

SOFTWARE: AutoCAD 12

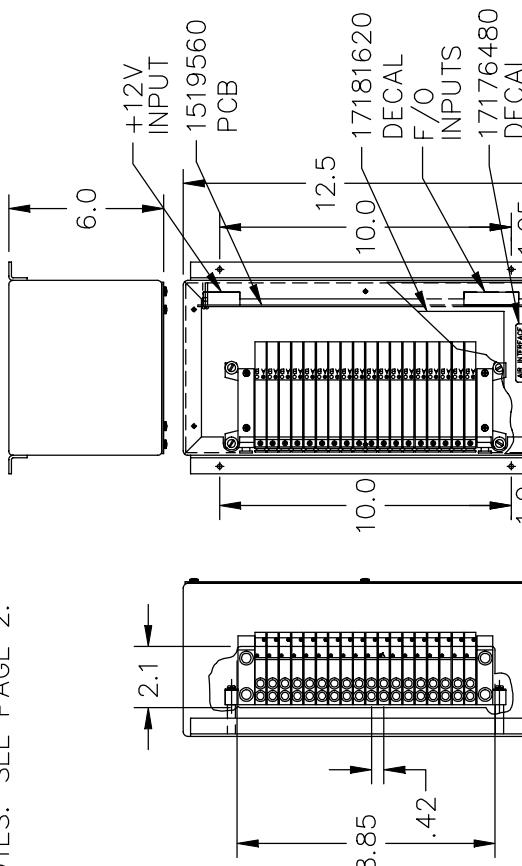
Return to CD-ROM Table of Contents

Linac Air Interface #1 Module VHE - 1909760

COMMERCIAL PART SPECIFICATION

DESCRIPTION: LINAC AIR INTERFACE #1 MODULE VHE
 POWER .5 W EA. VLV, ACTIVE LOW +12V COM.
 MAX VOLTAGE +12V WEIGHT 7 LBS., VALVE REGULATORY CSA,
 REPLACEMENT SOLENIOD VALVE EA. EATON P/N 3200556
 MATE'L USED: .09 THK 5052-H32 ALUM. FINISH YELLOW IRIDITE
 MFG: SMC PNEUMATICS, INC MFG P/N: UUUSP-97008
 ADDRESS: 461 BOSTON ST. TOPSFIELD MA.

SOURCE: _____ MFG: _____ ADDRESS: _____ SOURCE: _____ NOTES: SEE PAGE 2



EATON Corporation
Semiconductor Equipment Operations

SOFTWARE: AutoCAD 12						
3	ECO 15205	4/7/97	A. SIBBACH	TITLE LINEAC AIR INTERFACE #1 MODULE VHE		
3	ECO 56118	11/6/97	ENGINEER A. SIBBACH	DRAWING NO.	REV	
3	ECO 56377	2/12/99	SHEET 1 OF 2	1909760		D

△ D

△ D

△ D

△ D

△ D

Signal Name/ Valve Designation	Connector P1	Manifold Station	Port A N.C.	Port B N.O.	Wire Color
SV10-V65 open	J5-1	1	N7	PP	Black
SV9-V64 open	J6-1	14	N7	PP	Yellow/Black
SV8-V63 open	J7-1	2	N7	PP	Brown
SV7-V62 open	J8-1	15	N7	PP	Pink/Black
SV6-V61 open	J9-1	3	N7	PP	Red
SV5-V60 open	J10-1	16	N7	PP	Blue/White
SV4-V59 open	J11-1	4	N7	PP	Orange
SV3-V58 open	J12-1	17	N7	PP	Purple
SV2-V57 open	J13-1	5	N7	PP	Yellow
SV11-V68 open	J4-1	18	N7	PP	Grey/Red
SV12-V69 open	J3-1	6	N7	PP	Pink
SV13-V70 open	J17-1	19	N7	PP	Orange/Blk
SV14-V71 open	J16-1	7	N7	PP	Blue
SV1-Injector Faraday Cup	J14-1	20	N7	N7	Gray
Blanking Plate		15	PP	PP	
Blanking Plate		16	PP	PP	
Blanking Plate		17	PP	PP	
Blanking Plate		18	PP	PP	
+12V Bus Supply	J5-2	9			Gray/Black
+12V Bus Supply	J14-2	22			Pink/Red
+12V Discrete Supply-SV9					

MAX. PRESSURE = 100 PSI.

Terminal— The reference 2 pin connector and pin number on the interface circuit card assembly

P1-25 pin D-type connector to valve manifold.

N7—One Touch Poly-fit fitting for 1/4" OD tubing.

PP—Port Plug.

Note: manifold Station 1 is closest to the D connector, station 18 is furthest away.

Set address on PCB #1519560 at S1=2 and S2=6.

Remove W1 jumper from PCB #1519560.

REV D

EATON Eaton Corporation Semiconductor Equipment Operations SHEET 2 OF 2 DRAWING NO. 1909760 SOFTWARE: AutoCAD 12

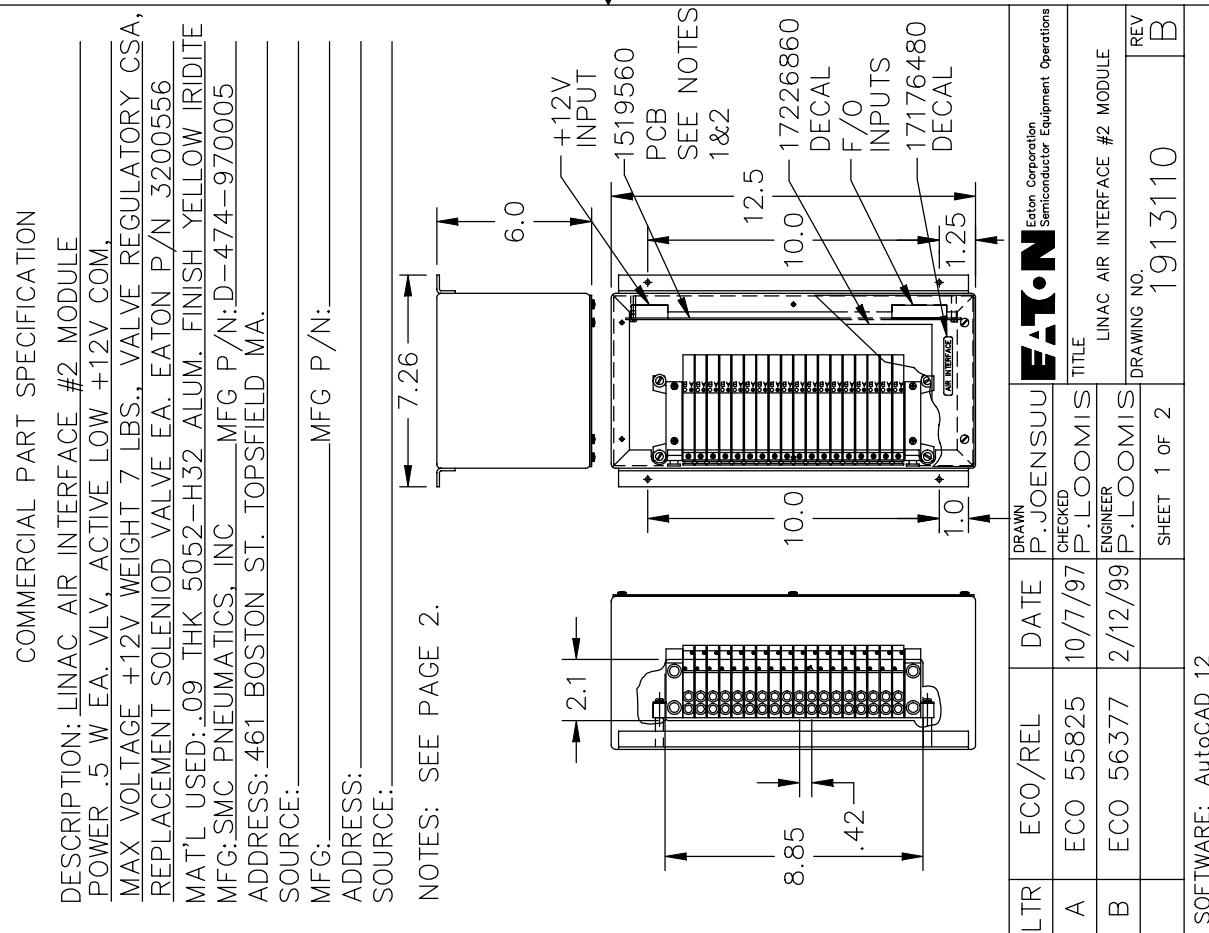
1

Return to CD-BOM Table of Contents

Return to Table of Contents

Return to Module Map

Linac Air Interface #2 Module - 1913110



Linac Air Interface #2 Box/Cable—configuration

△ B

Signal Name/ Valve Designation	Connector P1	Manifold Station	Port A	Port B	Wire Color
SV10-N2 on/off	J5-1	1	N7	PP	Black
SV9-SF6 on/off	J6-1	14	N7	PP	Yellow/Black
SV8-P5 N2 on/off	J7-1	2	N7	PP	Brown
SV7-P4 N2 on/off	J8-1	15	N7	PP	Pink/Black
SV6-P1 N2 on/off	J9-1	3	N7	PP	Red
SV5-Source Roughing/ Source Housing Exhaust	J10-1	6	N7	N7-BP	Blue/White
SV4-P4/P5 Roughing	J11-1	4	N7	PP	Orange
SV3-SF6 Roughing	J12-1	17	N7	PP	Purple
SV2-CAV #1 Isolation	J13-1	5	N7	PP	Yellow
Blanking Plate	J14-1	18	N7	N7	Gray
Blanking Plate		11	PP	PP	
Blanking Plate		12	PP	PP	
Blanking Plate		13	PP	PP	
Blanking Plate		14	PP	PP	
Blanking Plate		15	PP	PP	
Blanking Plate		16	PP	PP	
Blanking Plate		17	PP	PP	
+12V Bus Supply	J5-2	9	PP	PP	Gray/Black
+12V Bus Supply	J14-2	22			Pink/Red
+12V Discrete Supply-SV9					

Terminal— The reference 2 pin connector and pin number on the interface circuit card assembly
P1-25 pin D-type connector to valve manifold.
N7—One Touch Poly-flo fitting for 1/4" OD tubing. Replacement Eaton P/N 3402590.
PP—Port Plug. Replacement Eaton P/N 3402561.
N7-BP—One Touch Poly-flo fitting for 1/4" OD tubing with a blanking plug.
Note: manifold Station 1 is closest to the D connector, station 18 is furthest away.
Set address on PCB #1519560 at S1=2 and S2=7.
Remove WI Jumper from PCB #1519560.
MAX. PRESSURE = 100 PSI.

△ B

EATON Eaton Corporation Semiconductor Equipment Operations

1913110 REV B

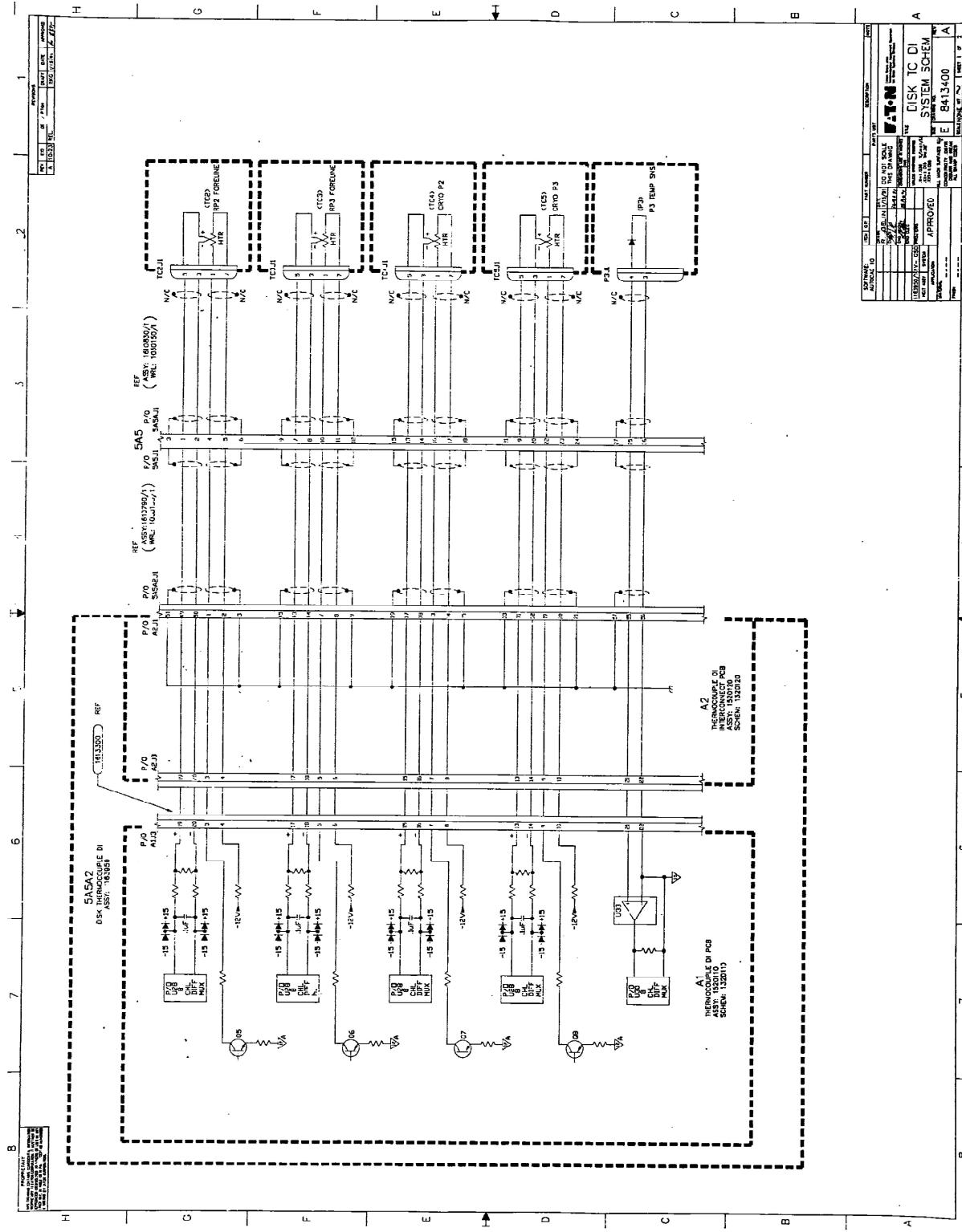
DRAWING NO. SHEET 2 OF 2 DRAWING NO. 1913110 REV B

Return to CD-ROM Table of Contents

[Return to Table of Contents](#)

System Schematic Disk TC DI-8413400

[Return to Module Map](#)



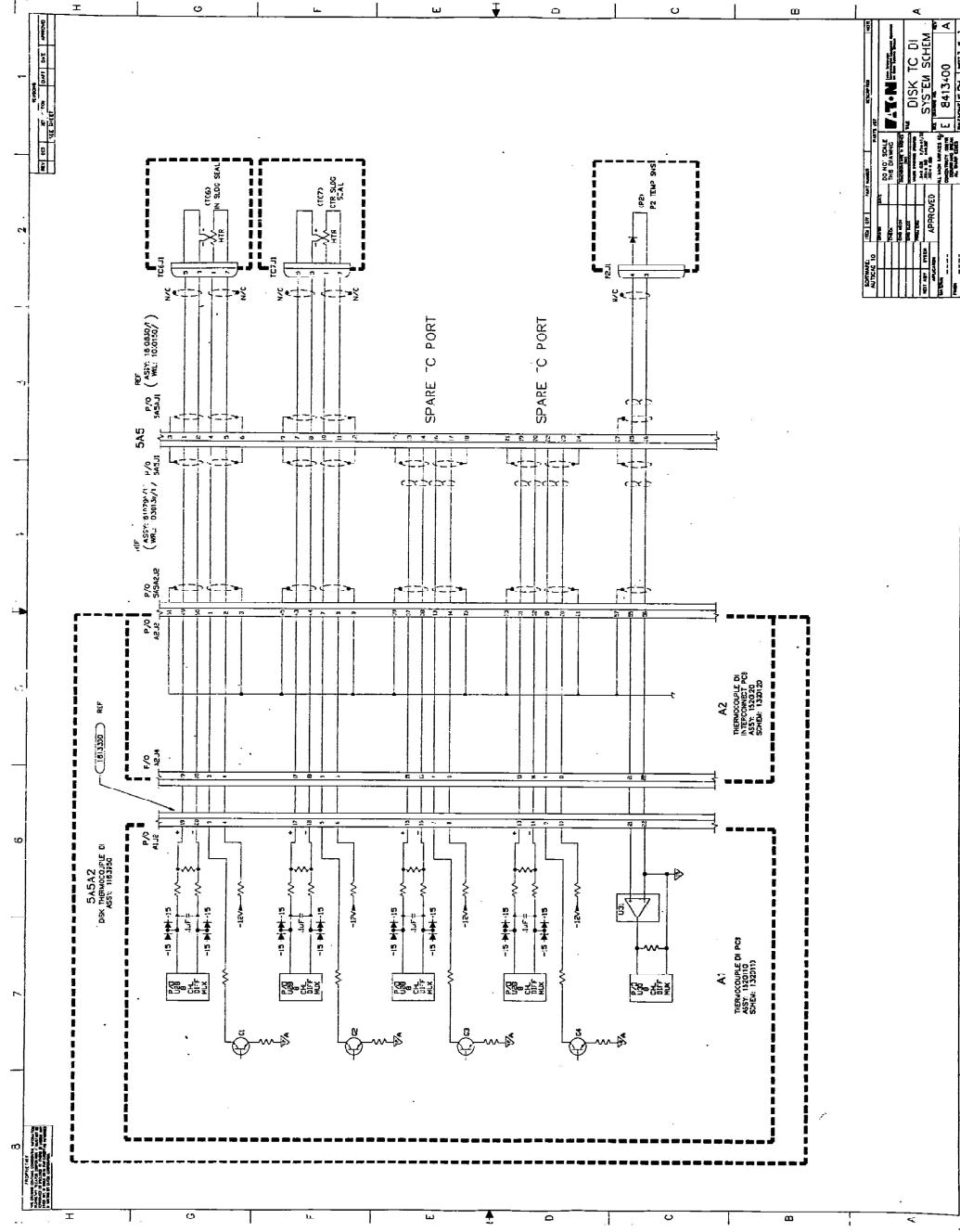
[Return to CD-ROM Table of Contents](#)

[Return to Table of Contents](#)

System Schematic Disk TC DI-8413400

[Return to Module Map](#)

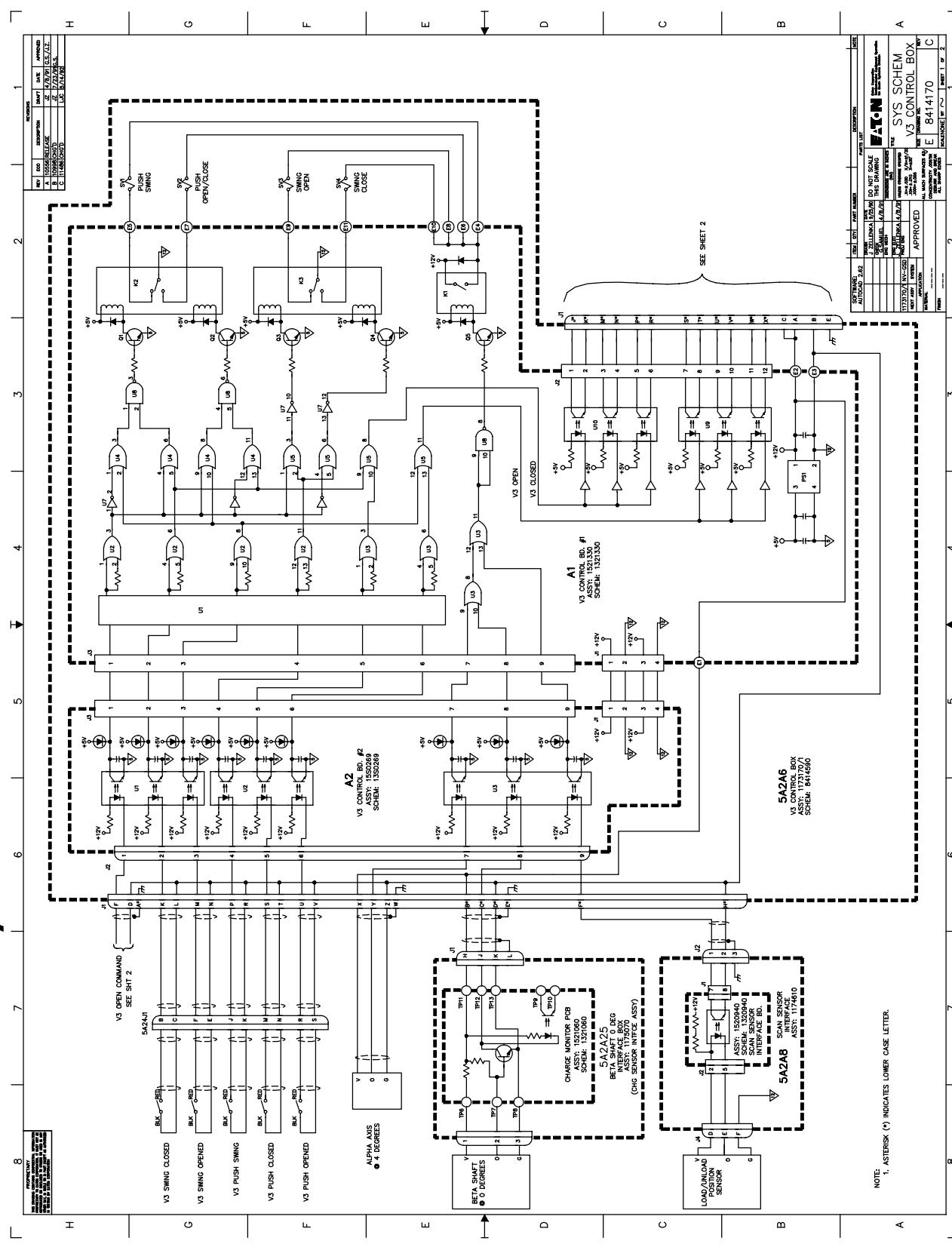
[Return to CD-ROM Table of Contents](#)



[Return to Table of Contents](#)

System Schematic V3 Control Box - 8414170

Return to Module Map



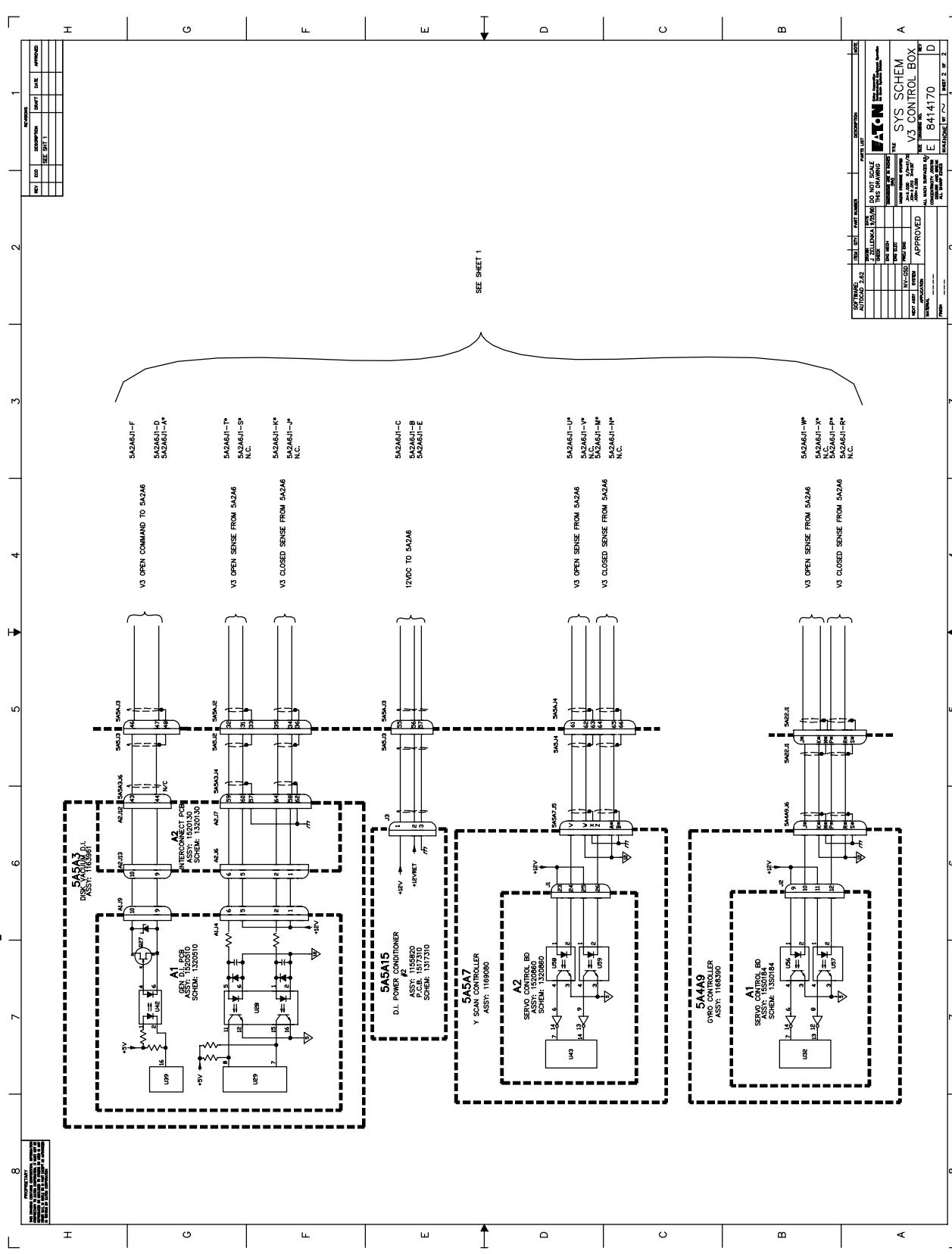
NOTE:

Return to CD-ROM Table of Contents

Return to Table of Contents

Return to Module Map

System Schematic V3 Control Box - 8414170

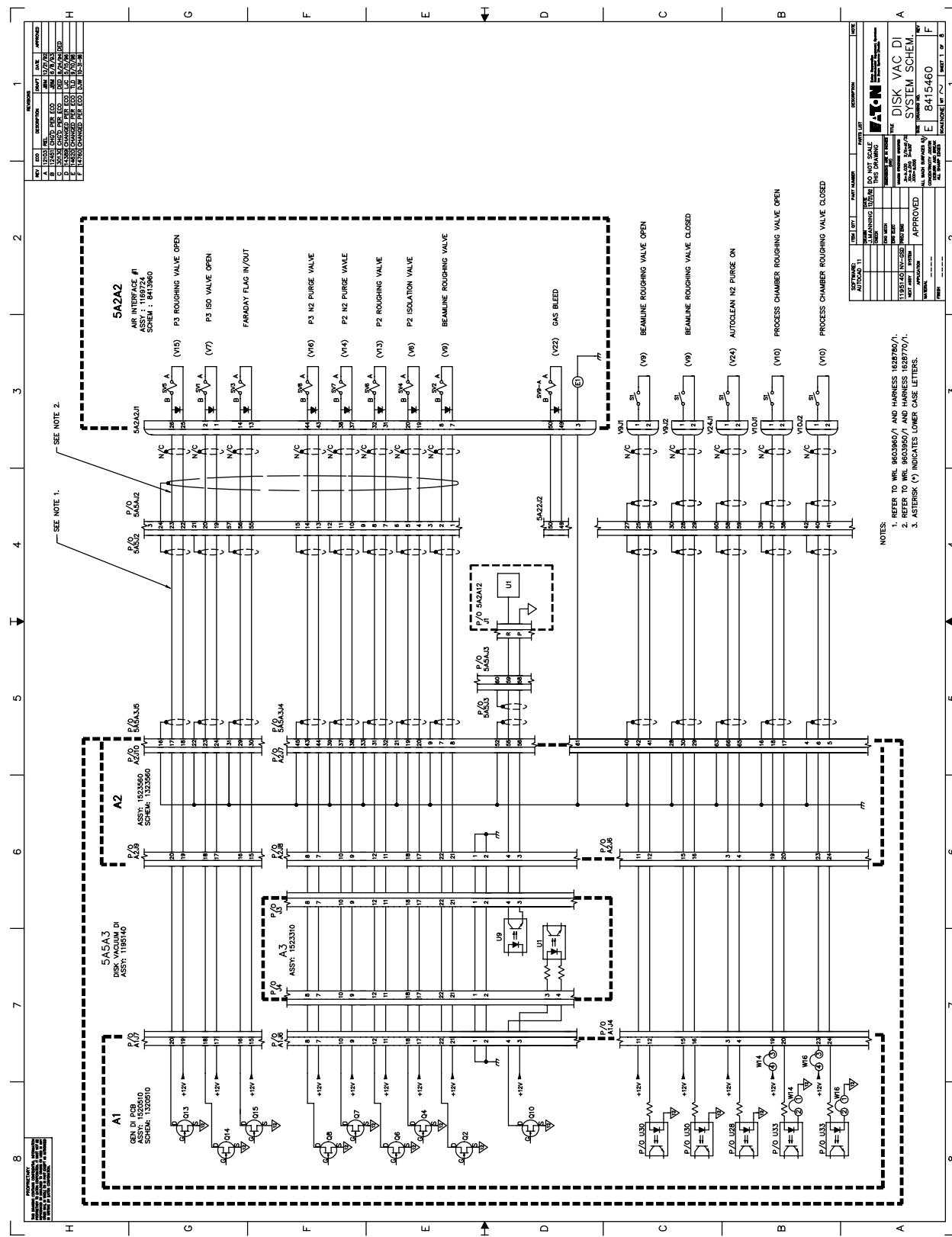


Return to CD-ROM Table of Contents

Return to Table of Contents

Disk Vac D.I. System Schematic - 8415460

Return to Module Map

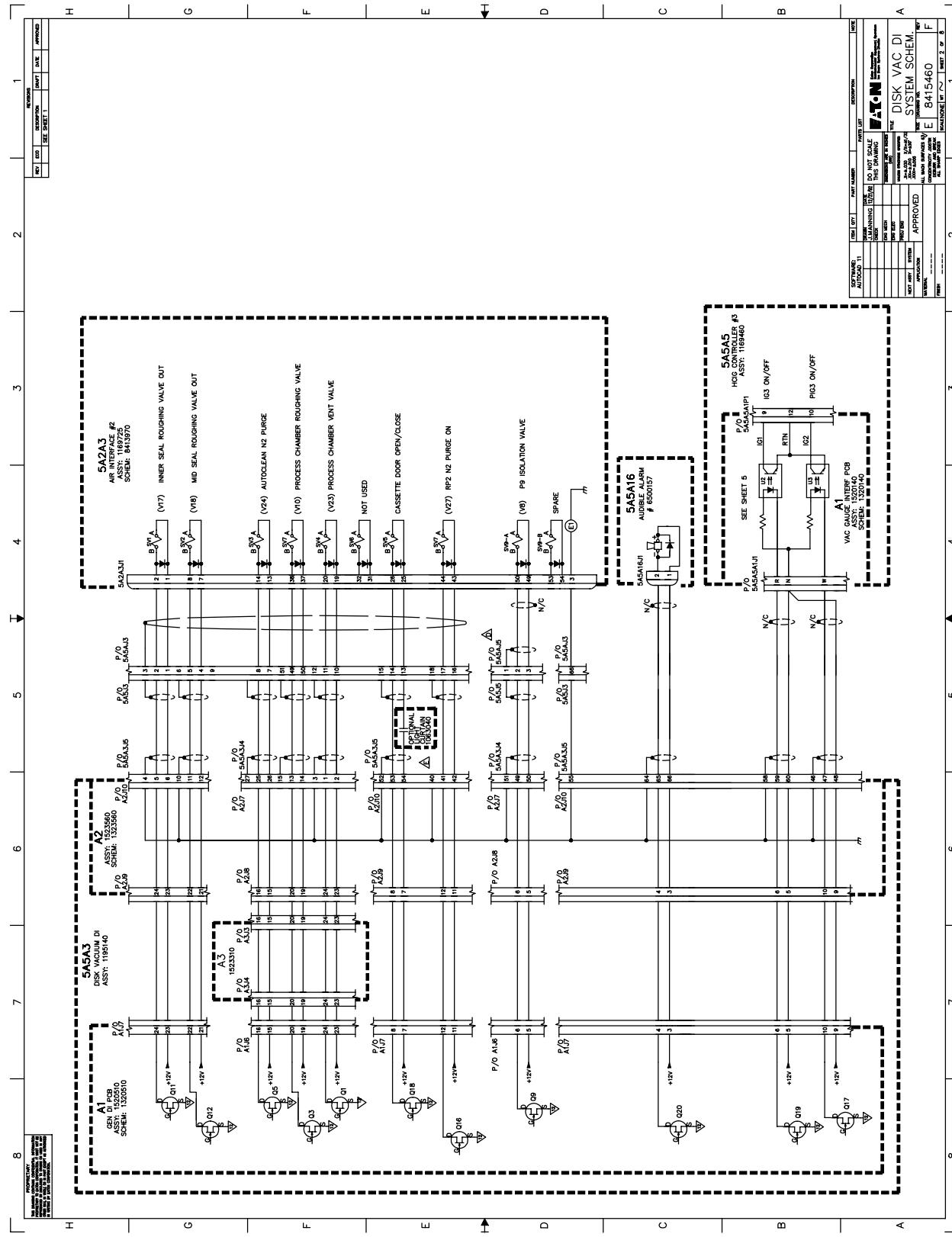


Return to CD-ROM Table of Contents

[Return to Table of Contents](#)

[Return to Module Map](#)

Disk Vac D.I. System Schematic - 8415460

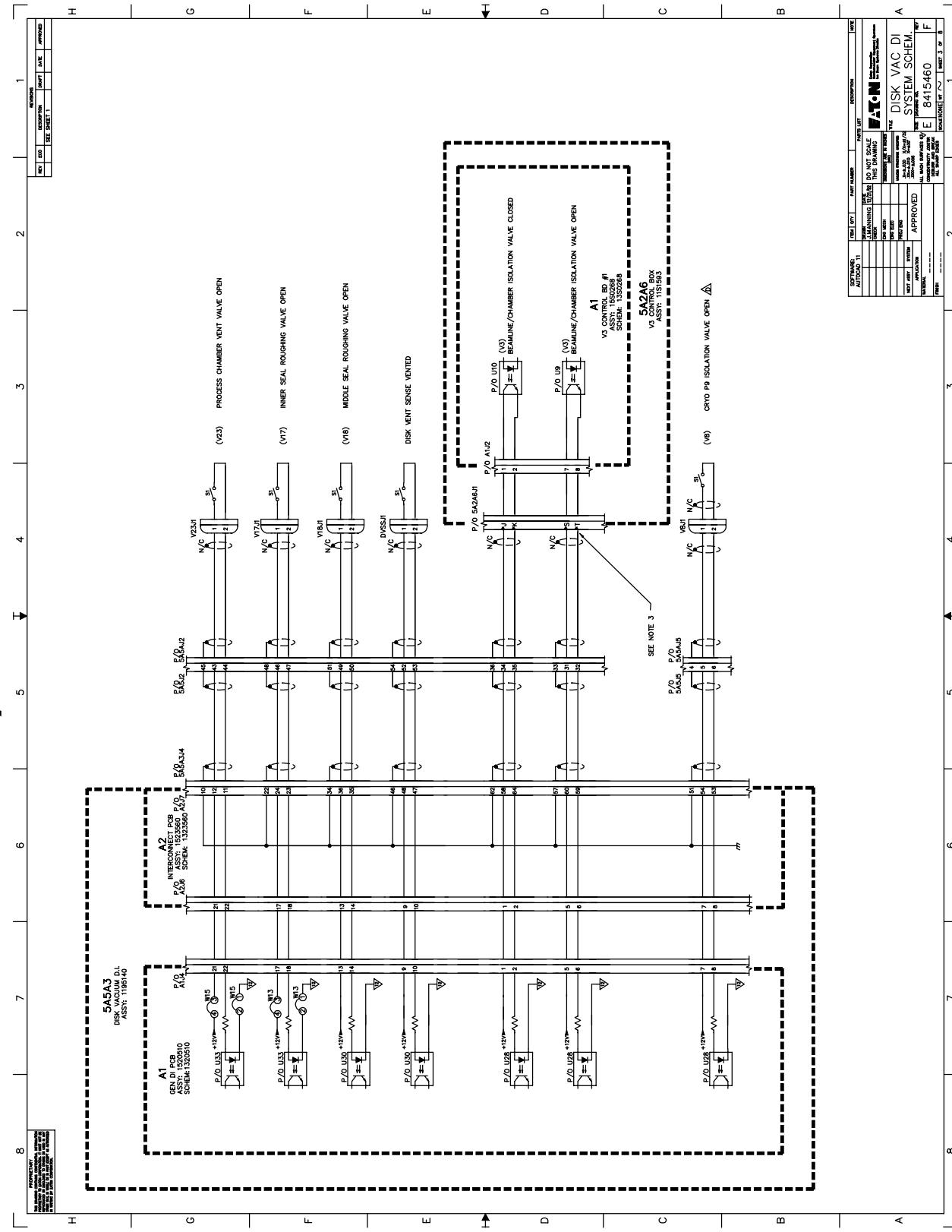


[Return to CD-ROM Table of Contents](#)

[Return to Table of Contents](#)

[Return to Module Map](#)

Disk Vac D.I. System Schematic - 8415460

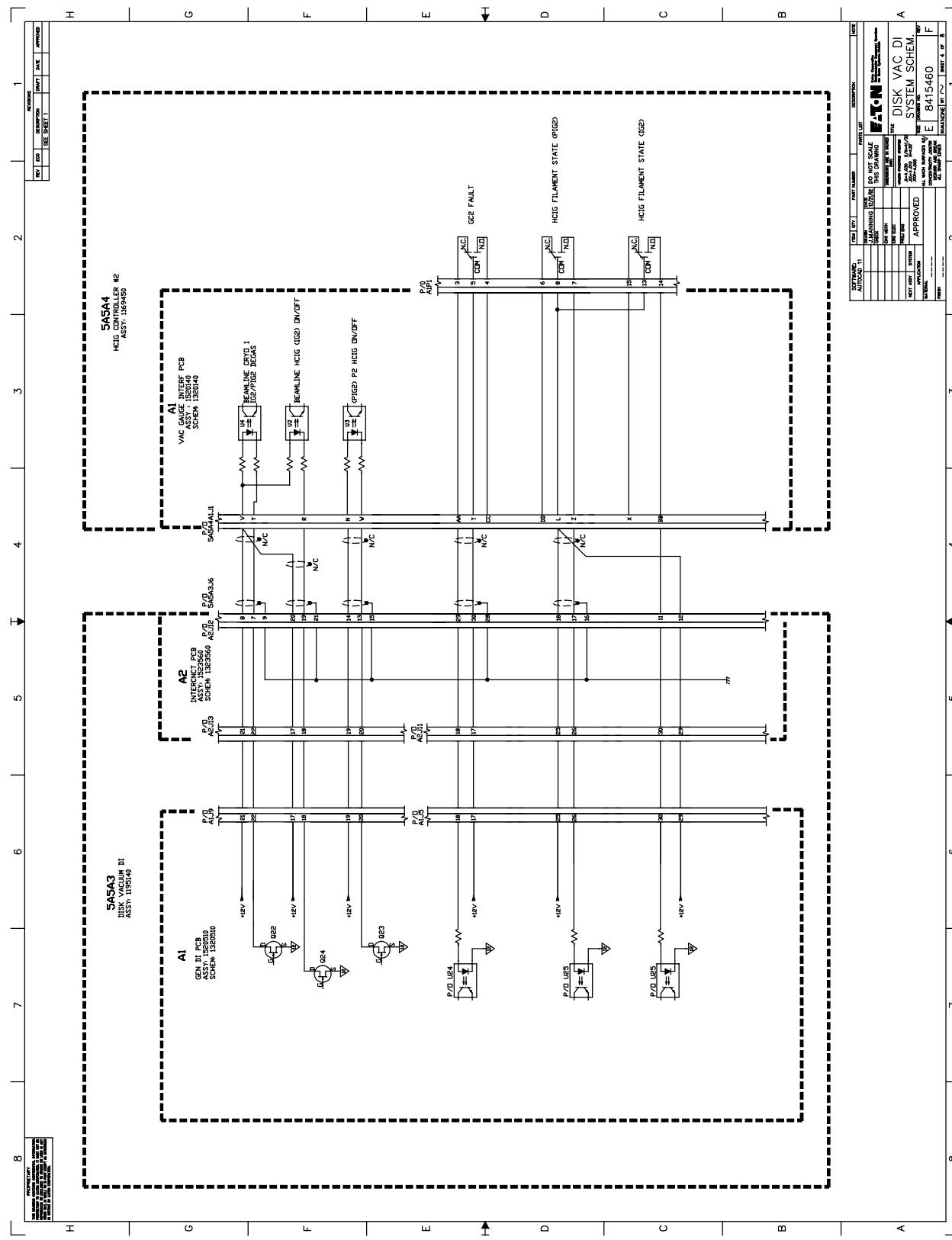


[Return to CD-ROM Table of Contents](#)

Return to Table of Contents

[Return to Module Map](#)

Disk Vac D.I. System Schematic - 8415460

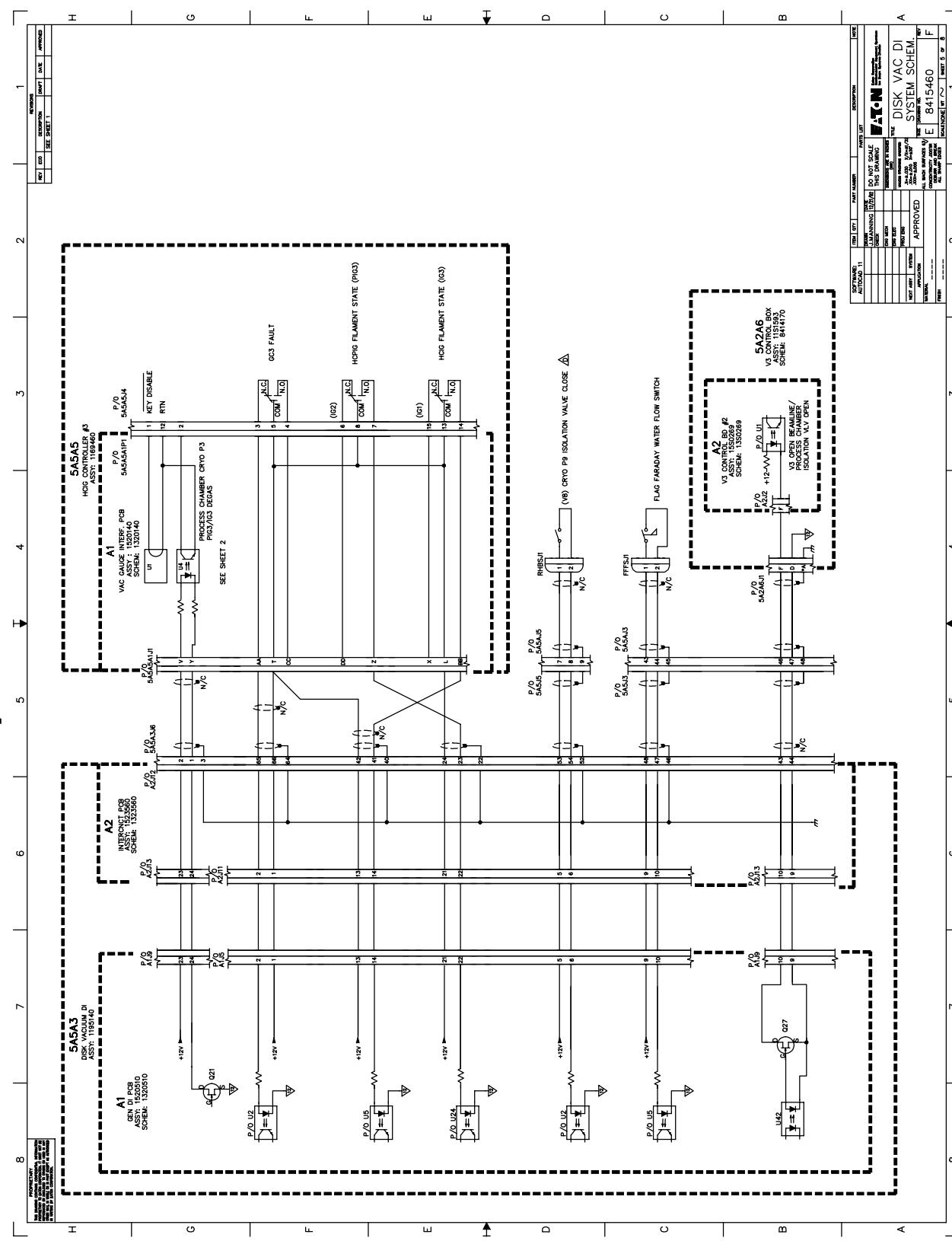


Return to CD-ROM Table of Contents

[Return to Table of Contents](#)

Return to Module Map

Disk Vac D.I. System Schematic - 8415460

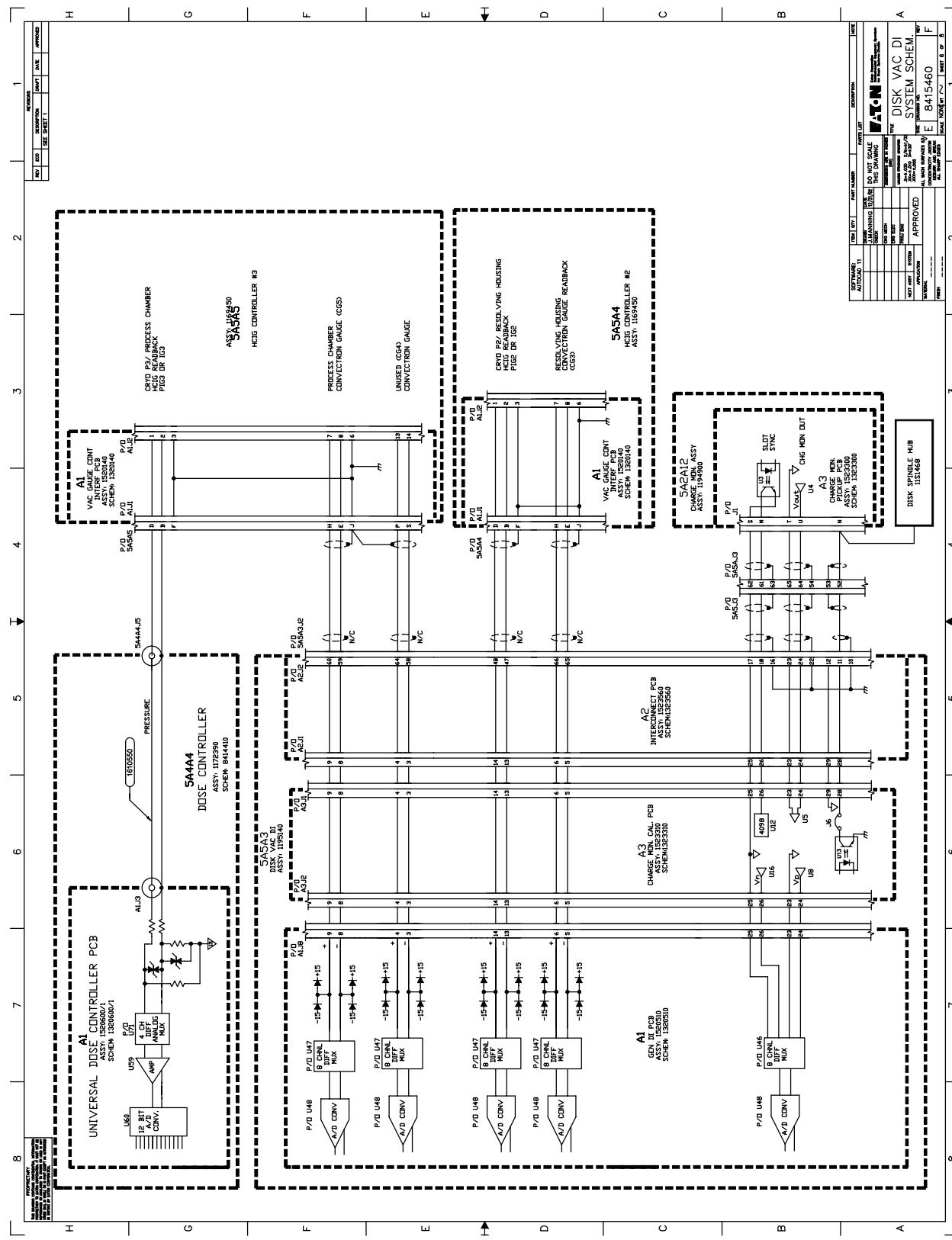


Return to CD-ROM Table of Contents

Return to Table of Contents

[Return to Module Map](#)

Disk Vac D.I. System Schematic - 8415460

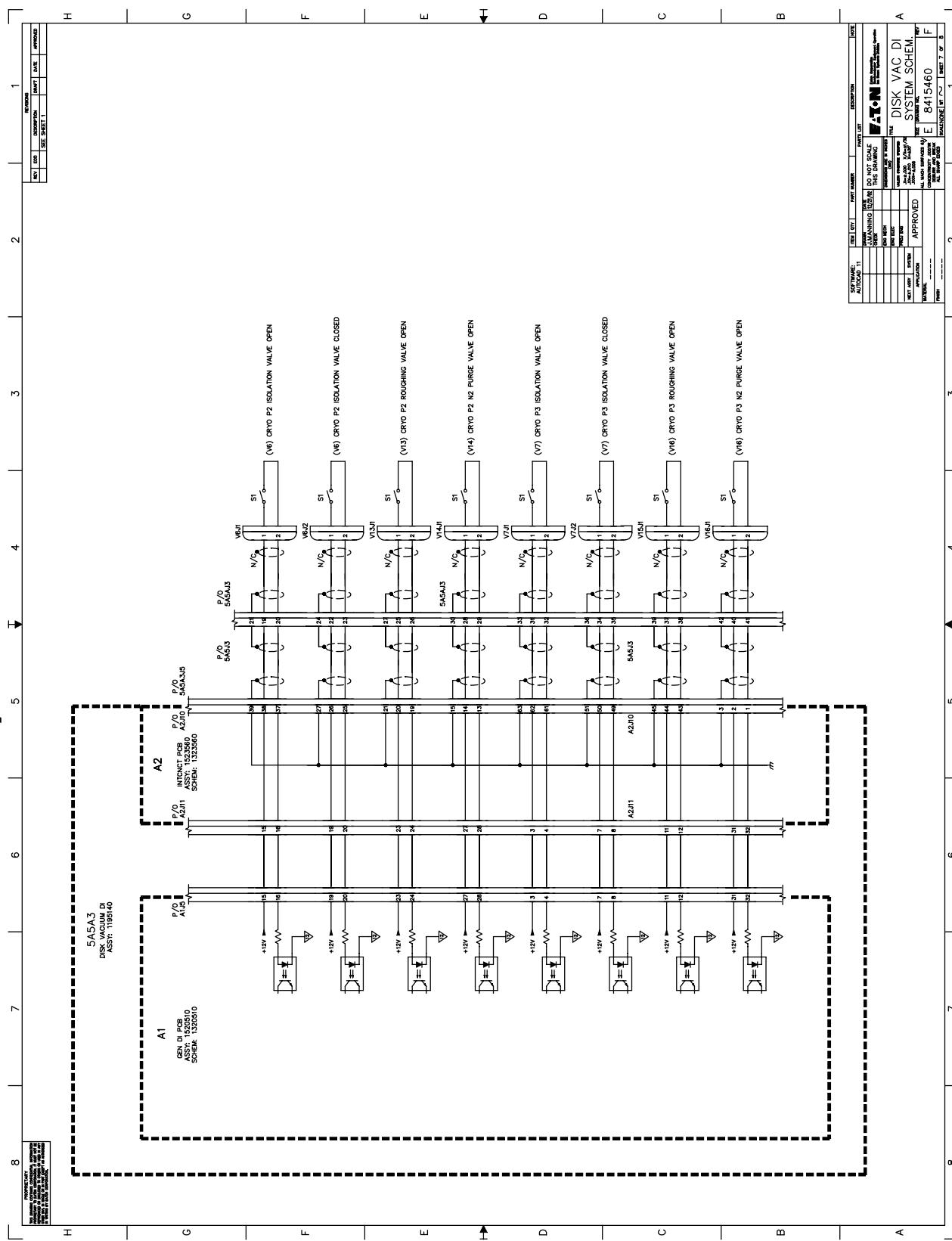


Return to CD-ROM Table of Contents

Return to Table of Contents

[Return to Module Map](#)

Disk Vac D.I. System Schematic - 8415460

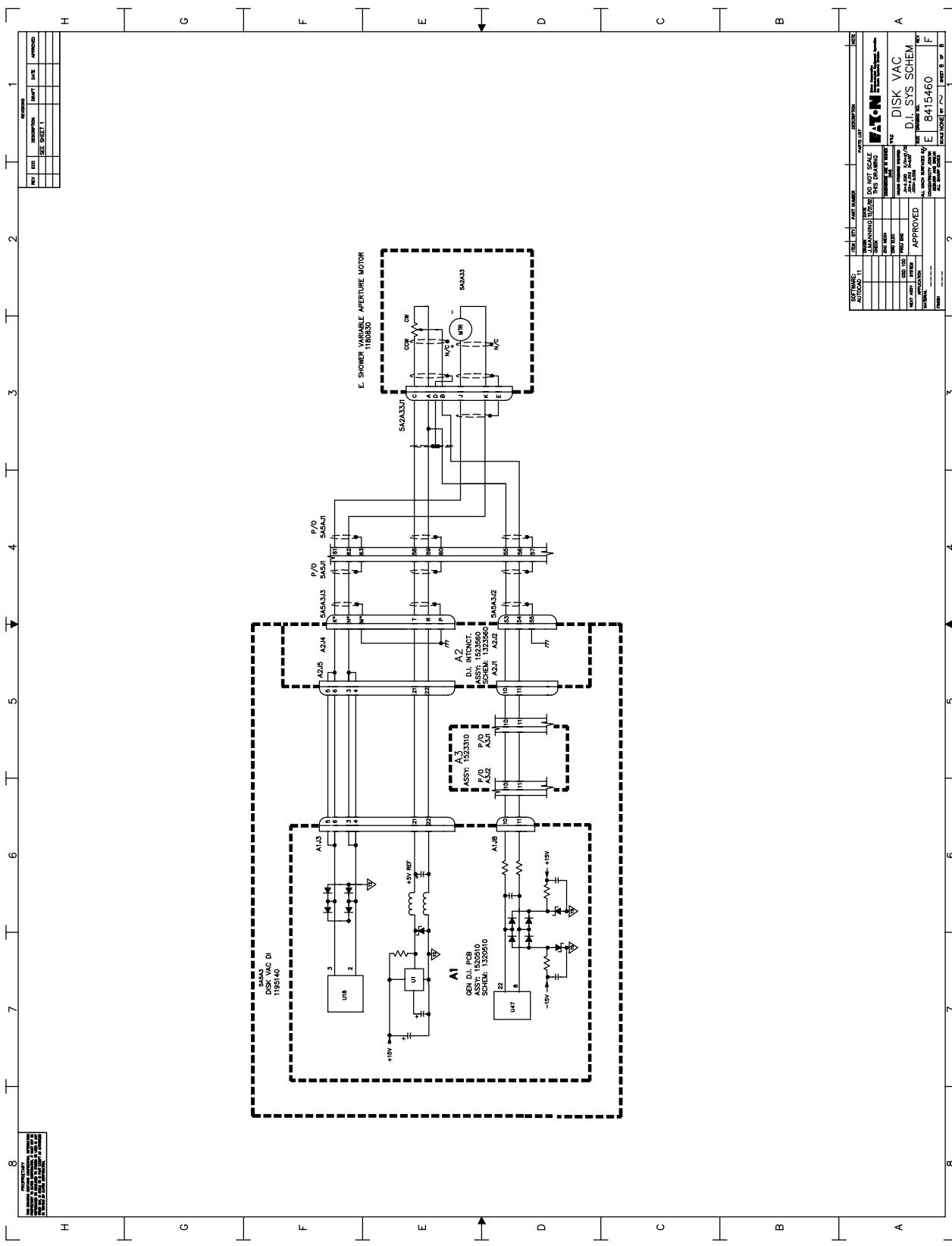


[Return to CD-ROM Table of Contents](#)

Return to Table of Contents

Return to Module Map

Disk Vac D.I. System Schematic - 8415460

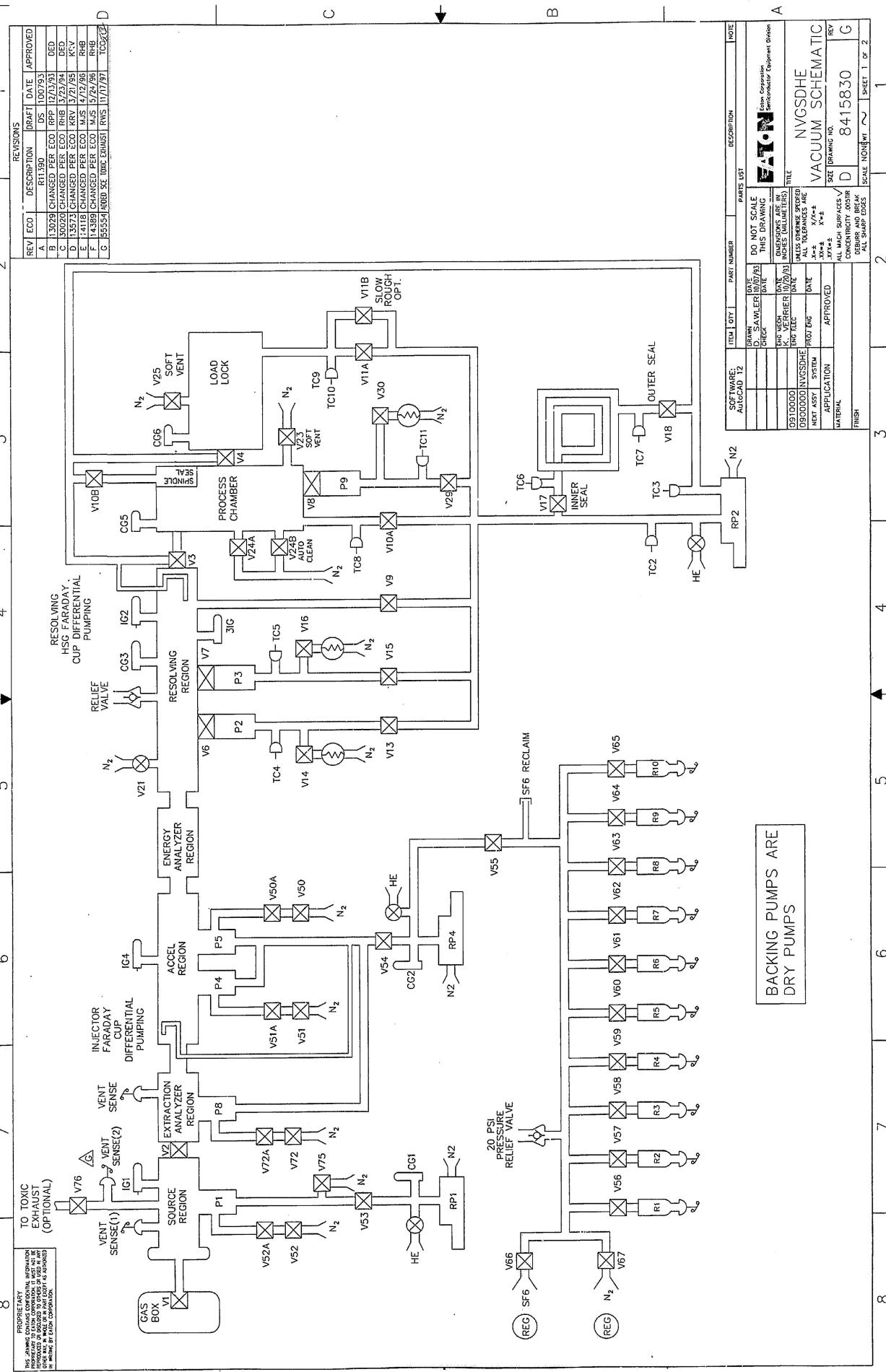


Return to CD-ROM Table of Contents

Return to Table of Contents

Return to Module Map

NV GSD/HE Vacuum Schematic - 8415830

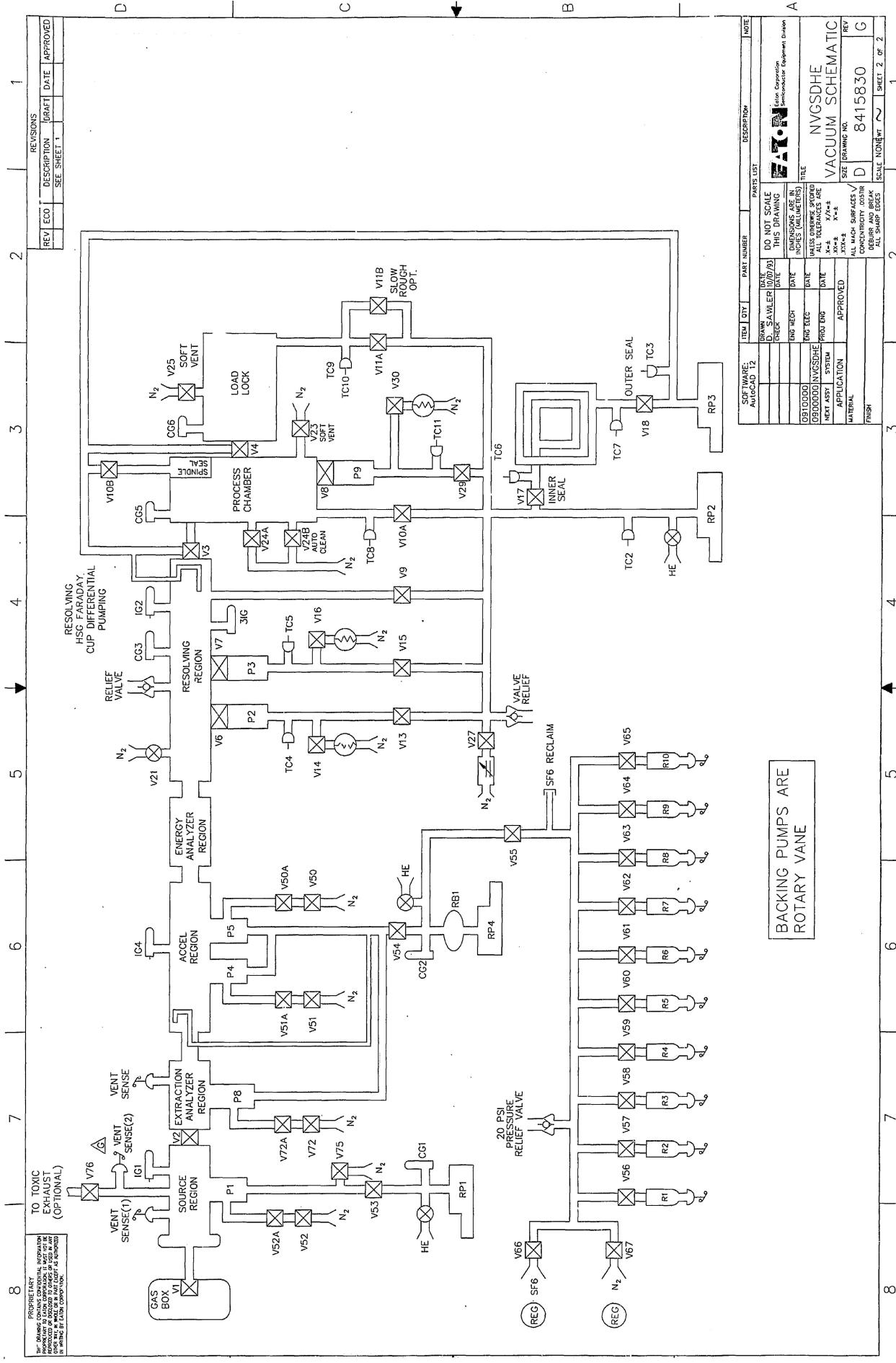


Return to CD-BOM Table of Contents

Return to Table of Contents

Return to Module Map

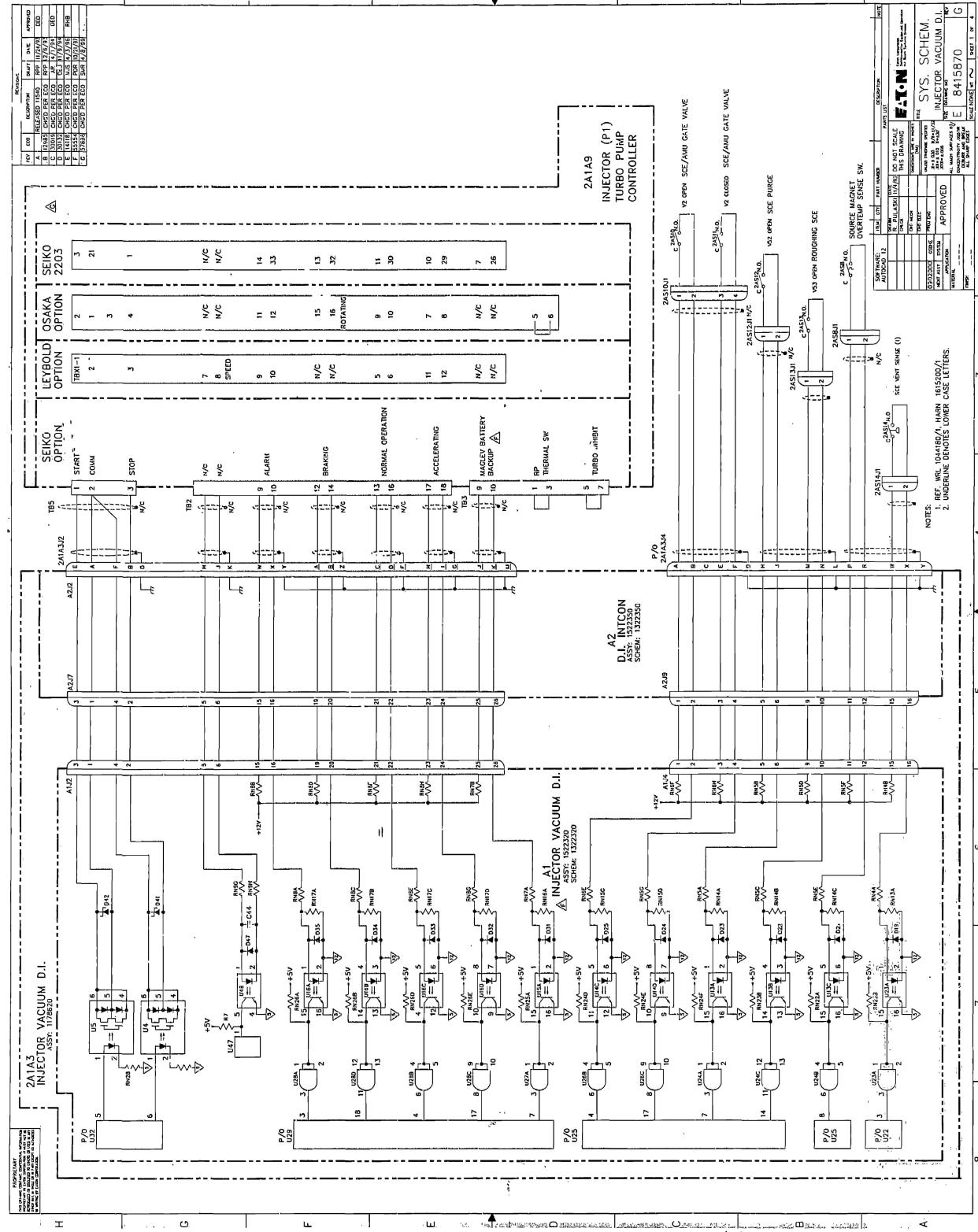
NV GSD/HE Vacuum Schematic - 8415830



Return to Table of Contents

Sys. Schem Injector Vacuum DI - 8415870

Return to Module Map

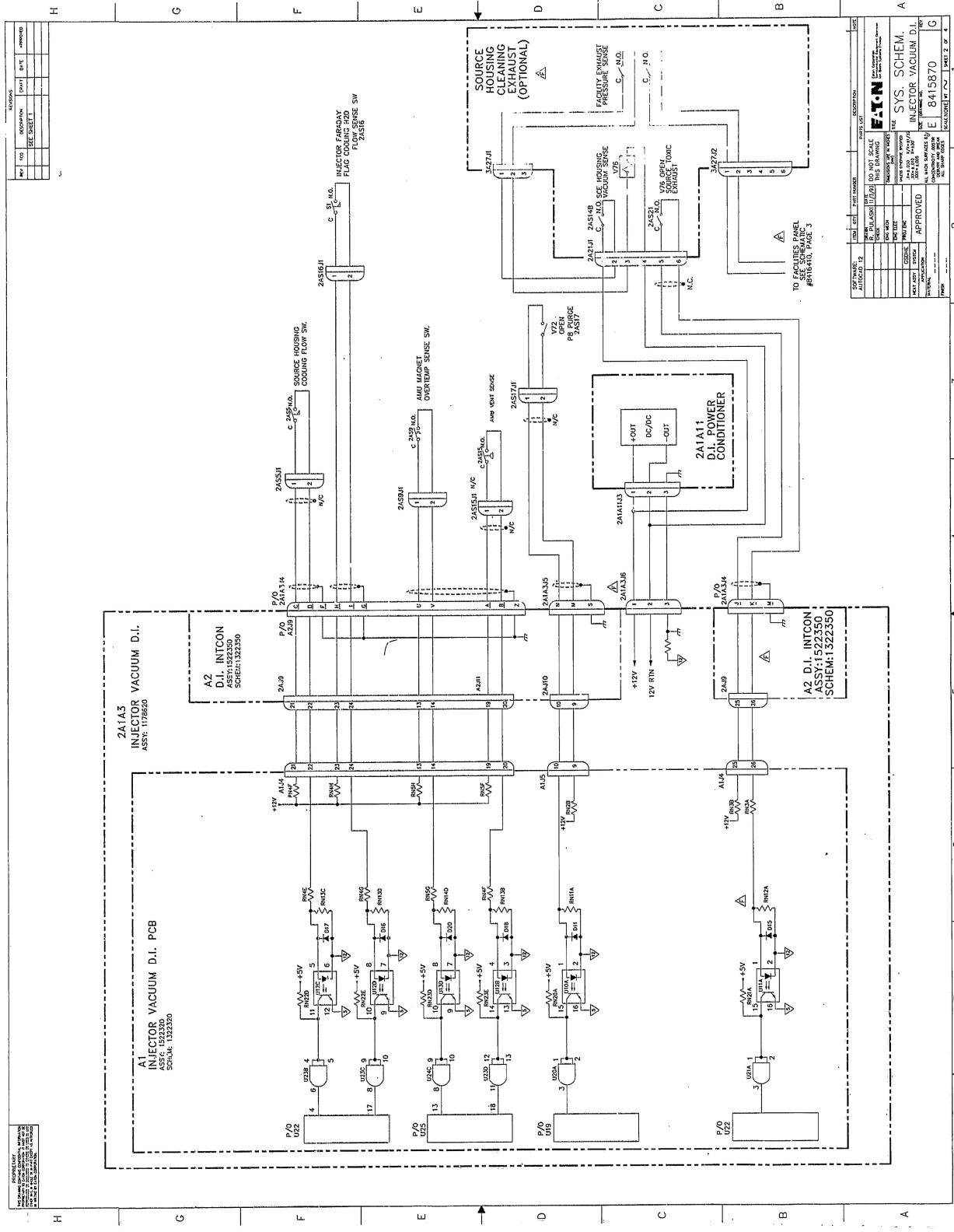


Return to CD-ROM Table of Contents

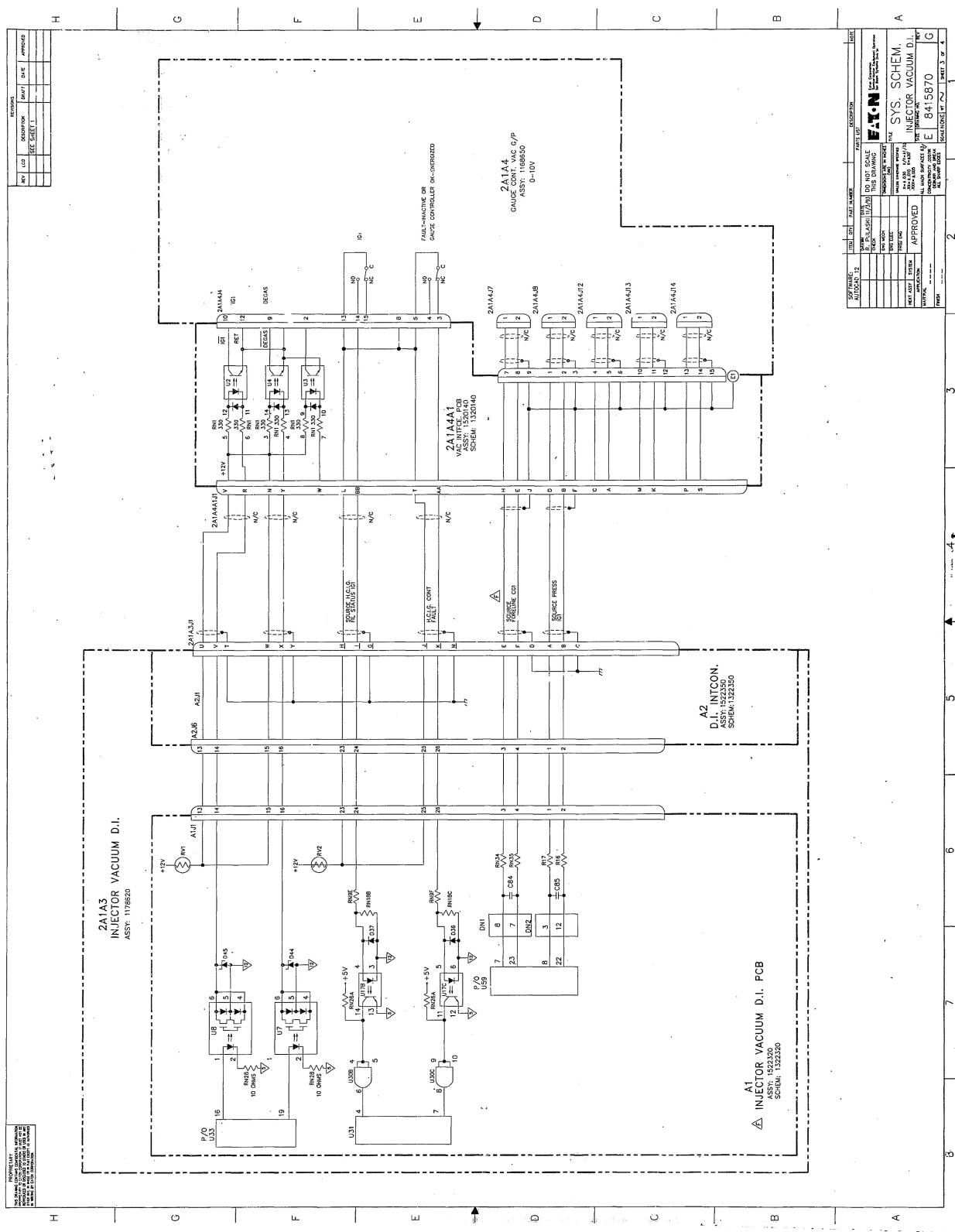
[Return to Table of Contents](#)

[Return to Module Map](#)

Sys. Schem Injector Vacuum DI - 8415870

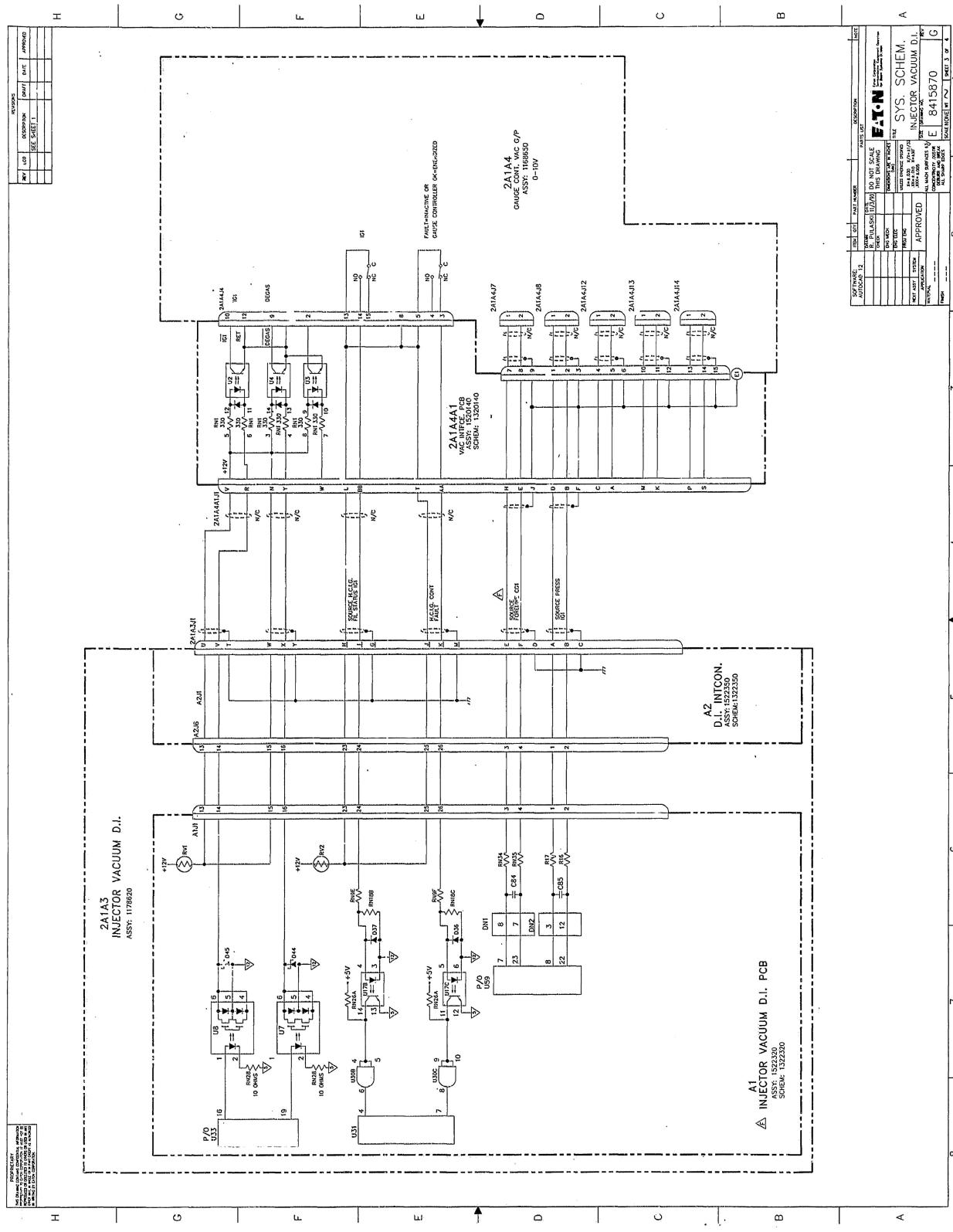


Sys. Schem Injector Vacuum DI - 8415870



Return to CD-ROM Table of Contents

Sys. Scheme Injector Vacuum DI - 8415870

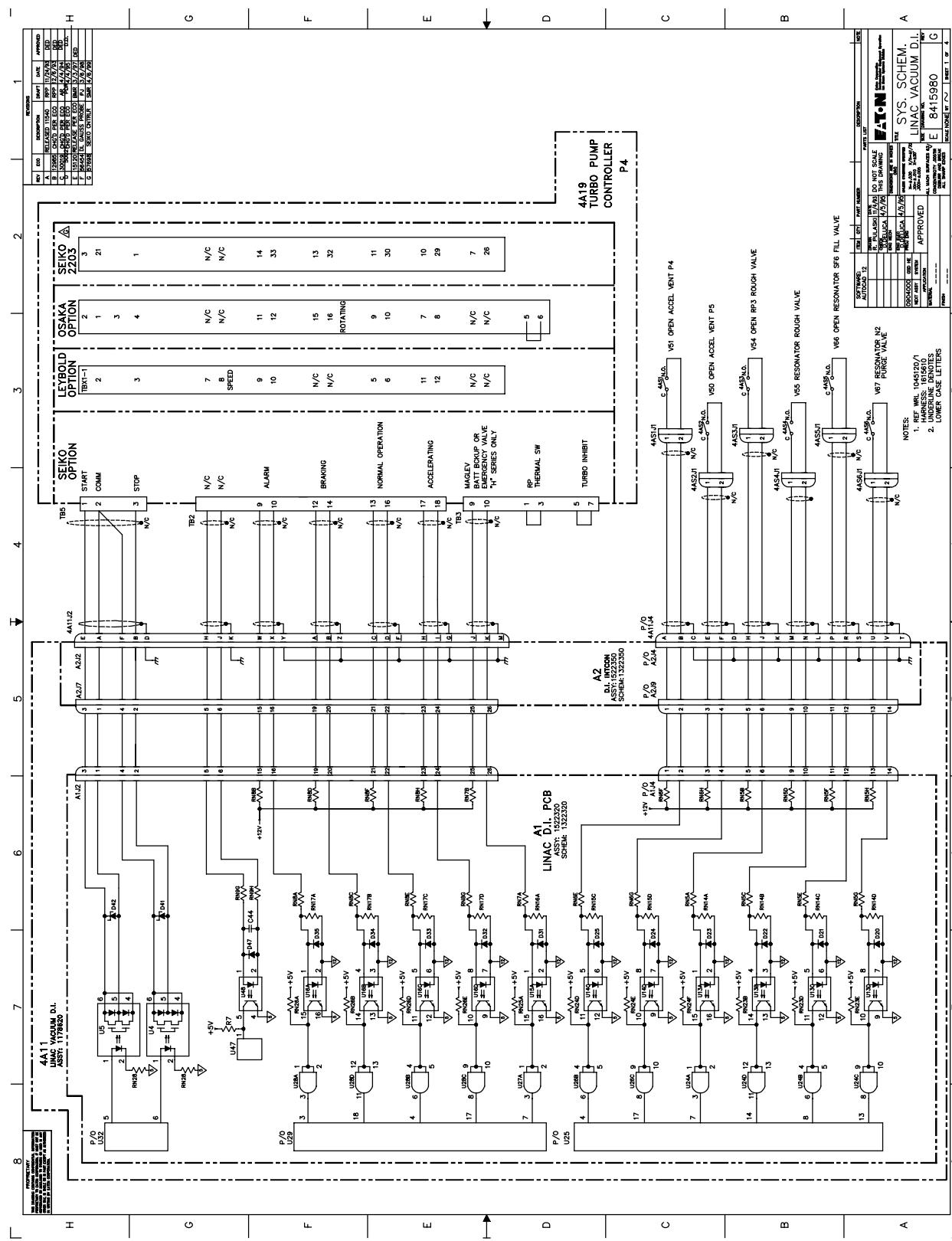


[Return to CD-ROM Table of Contents](#)

Return to Table of Contents

Return to Module Map

System Schematic Linac Vacuum D.I. - 8415980

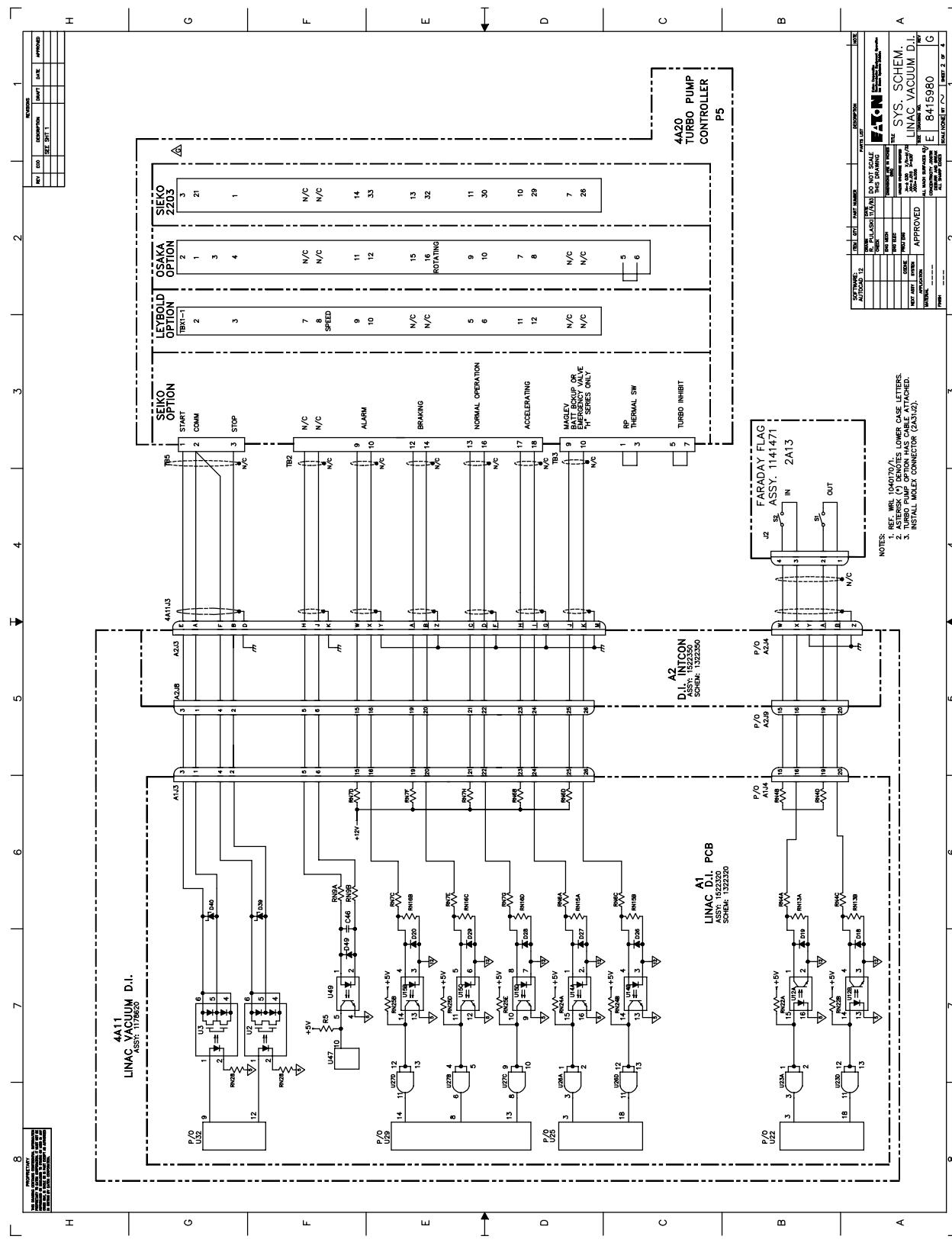


Return to CD-ROM Table of Contents

[Return to Table of Contents](#)

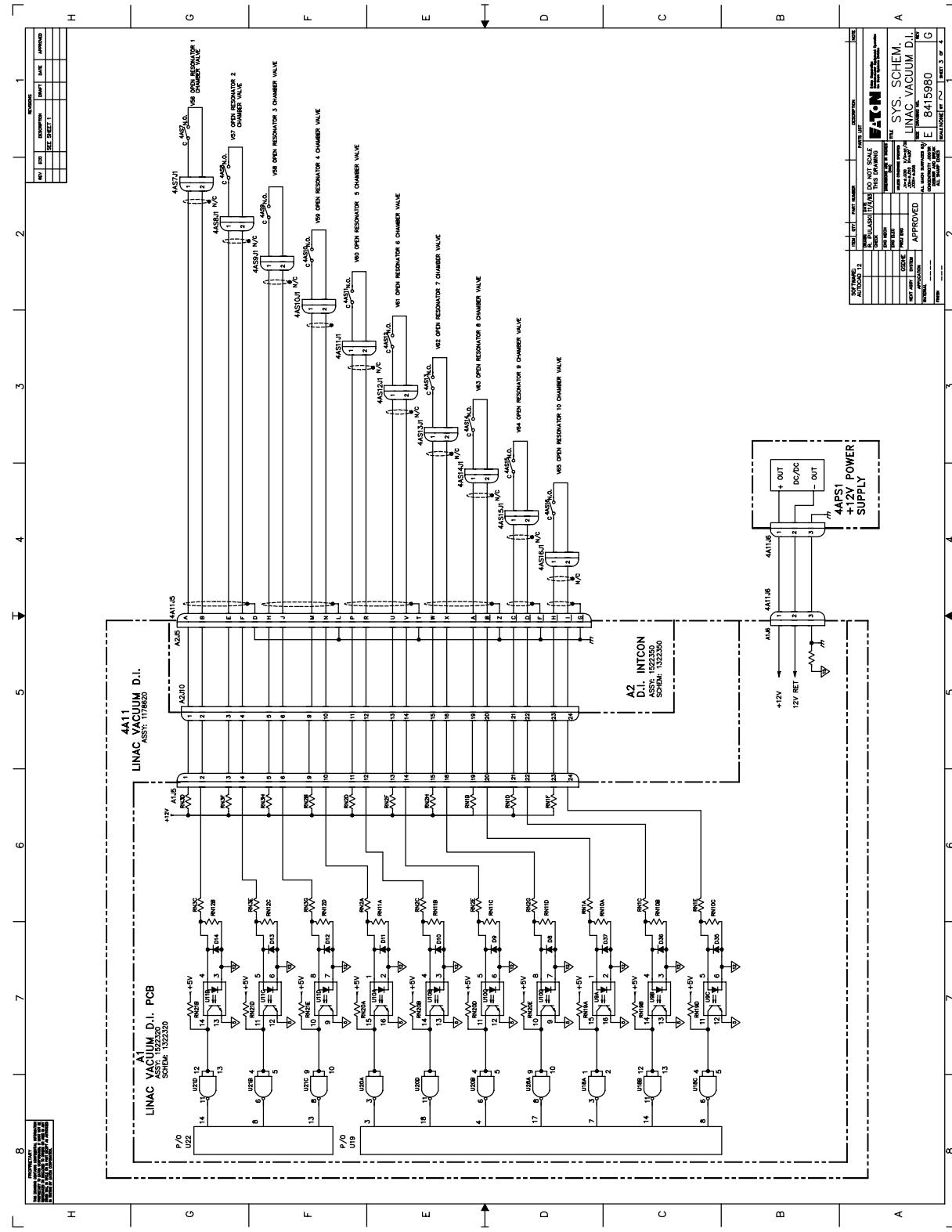
Return to Module Map

System Schematic Linac Vacuum D.I. - 8415980



Return to CD-ROM Table of Contents

System Schematic Linac Vacuum D.I. - 8415980

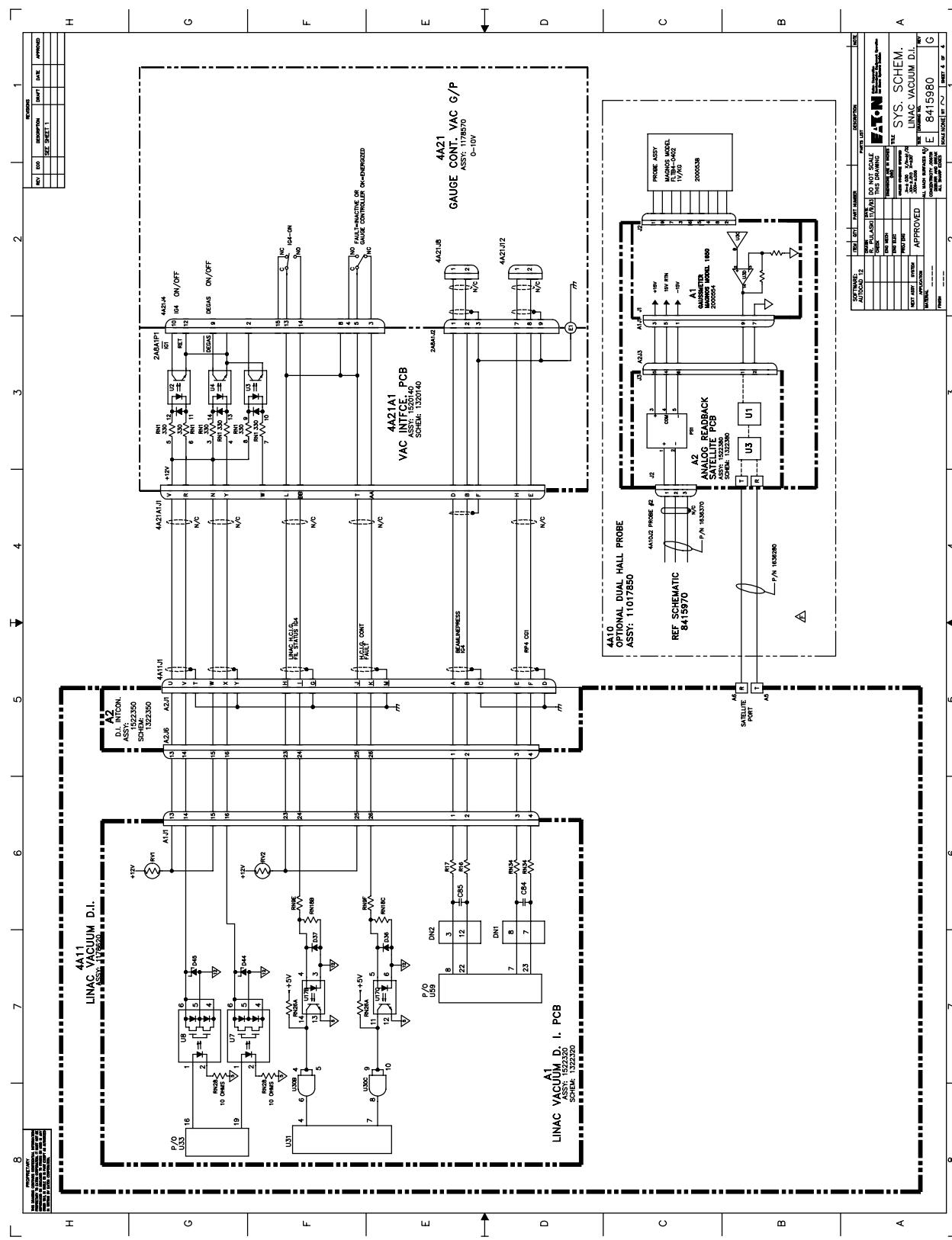


Return to CD-ROM Table of Contents

Return to Table of Contents

Return to Module Map

System Schematic Linac Vacuum D.I. - 8415980

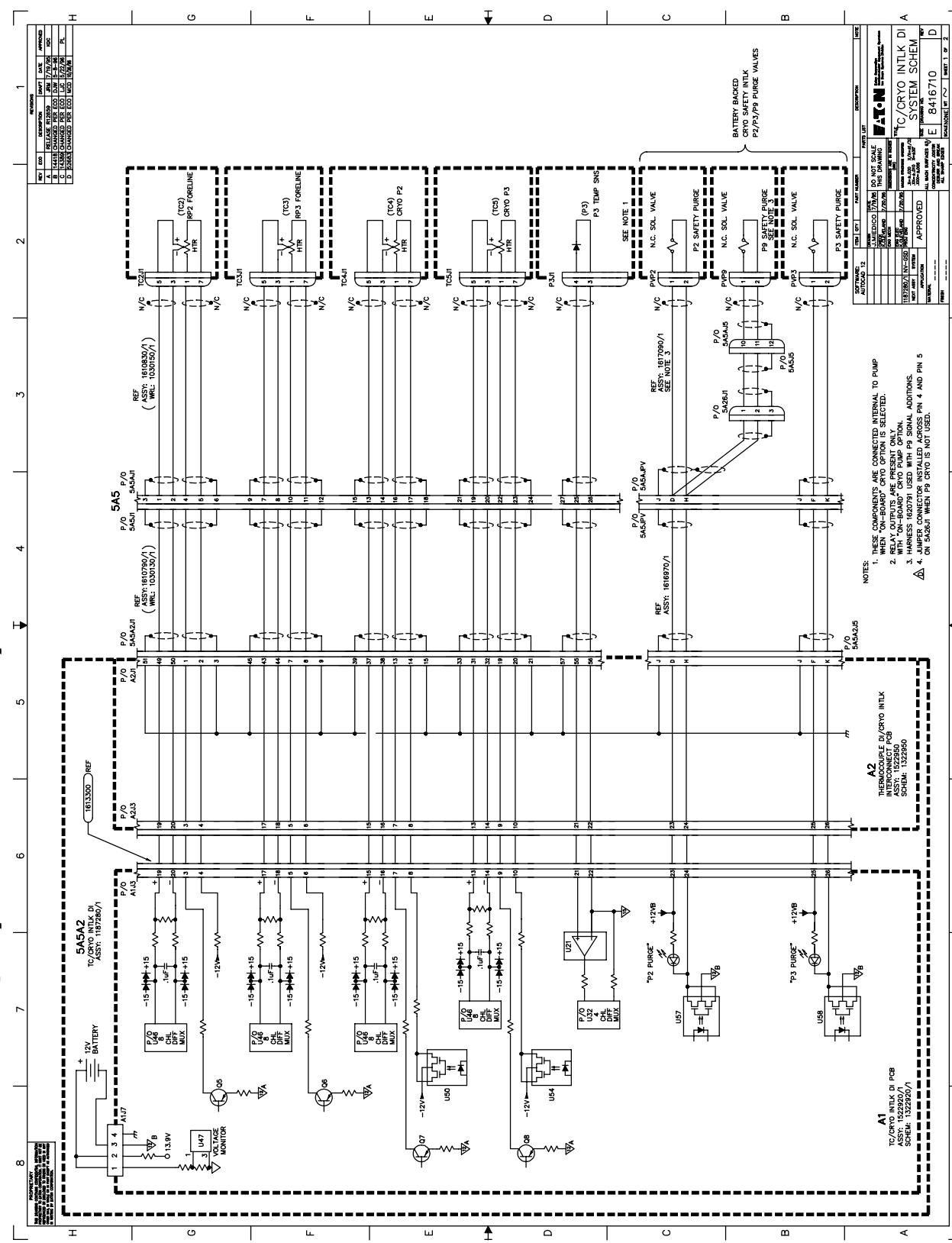


Return to CD-ROM Table of Contents

Return to Table of Contents

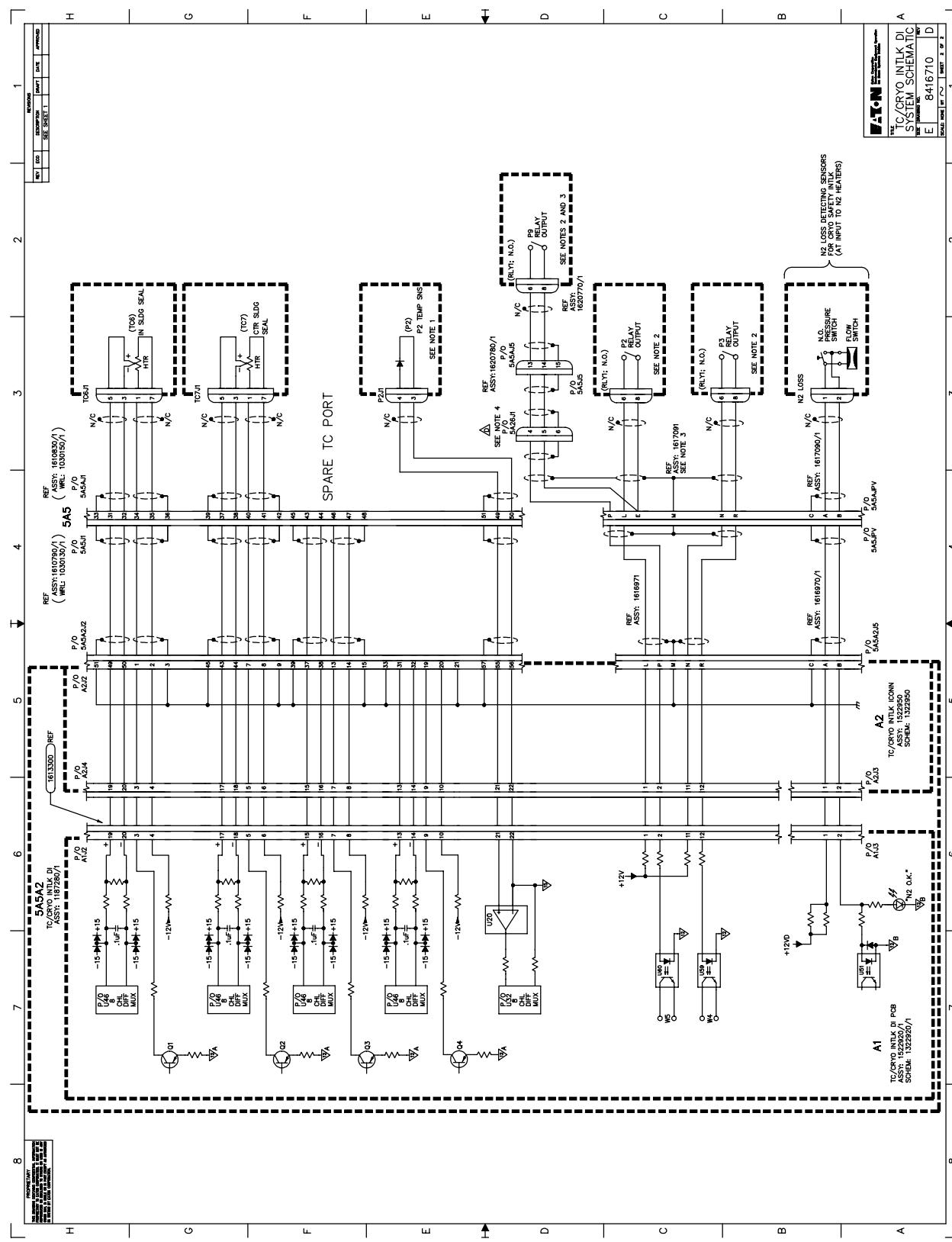
Return to Module Map

TC/Cryo Interlock D.I. System Schematic - 8416710



Return to **CD-ROM Table of Contents**

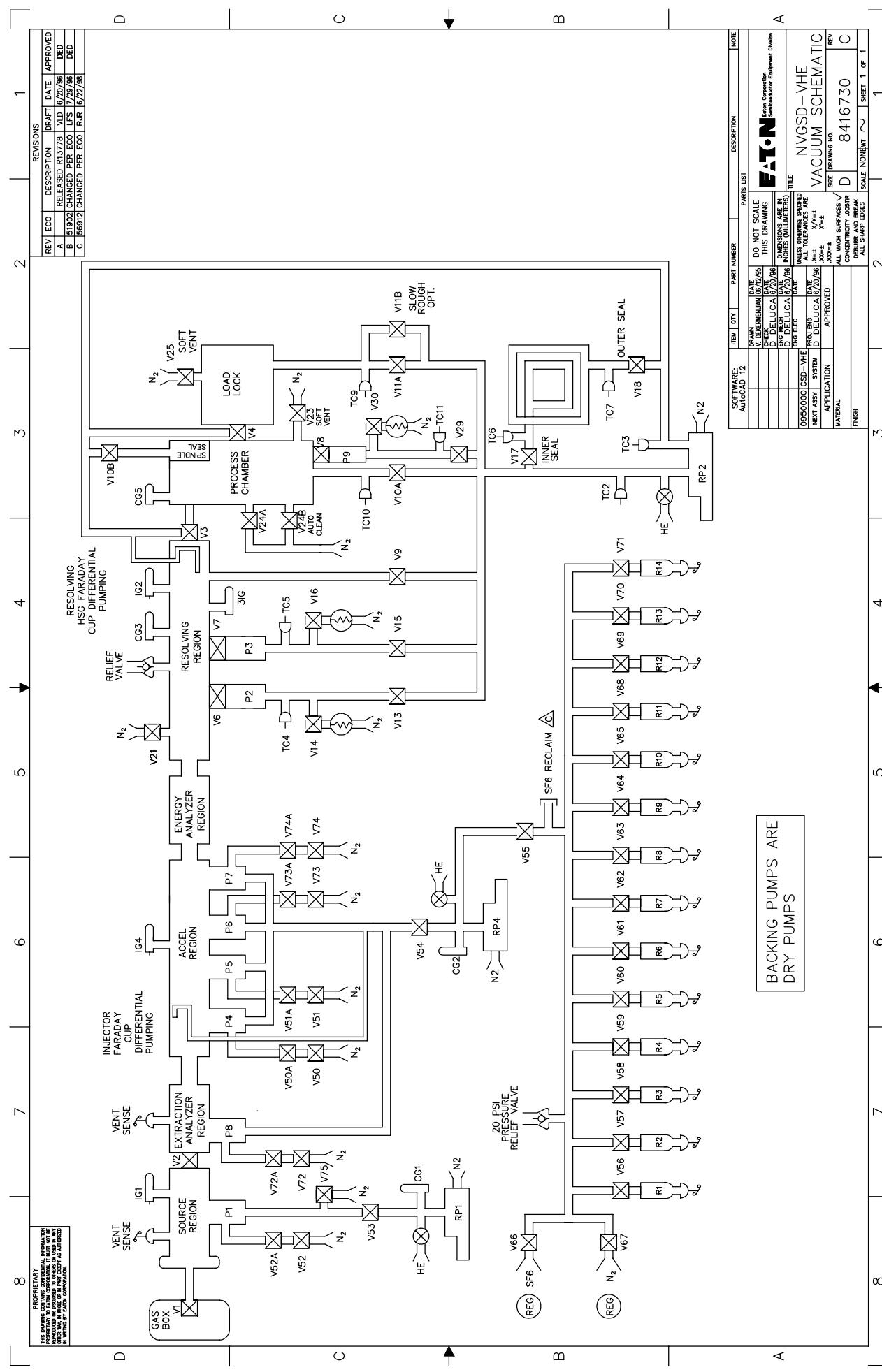
TC/Cryo Interlock D.I. System Schematic - 8416710



[Return to Table of Contents](#)

Vacuum Schematic VHE - 8416730

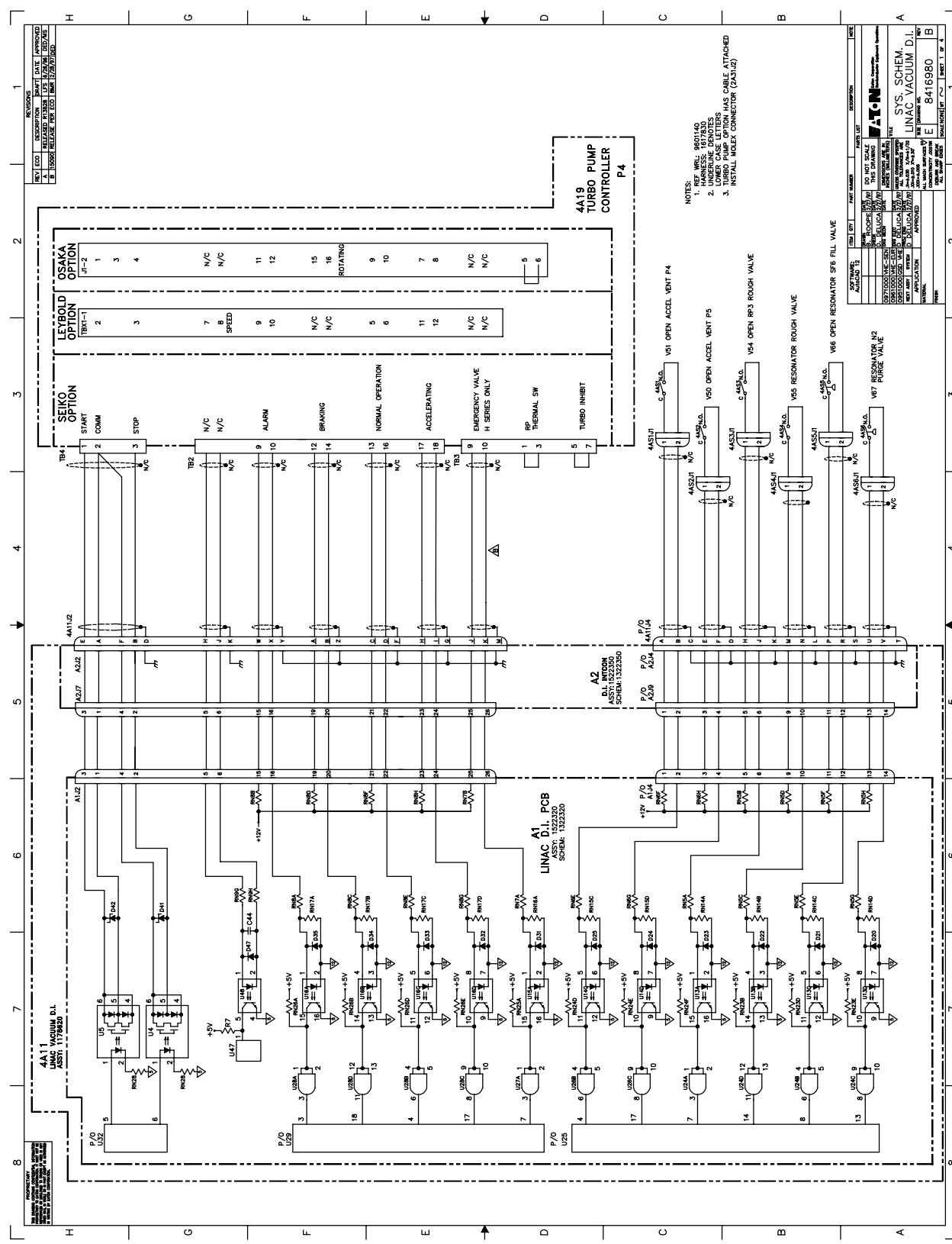
Return to Module Map



Return to Table of Contents

System Schematic Linac Vacuum DI - 8416980

Return to Module Map

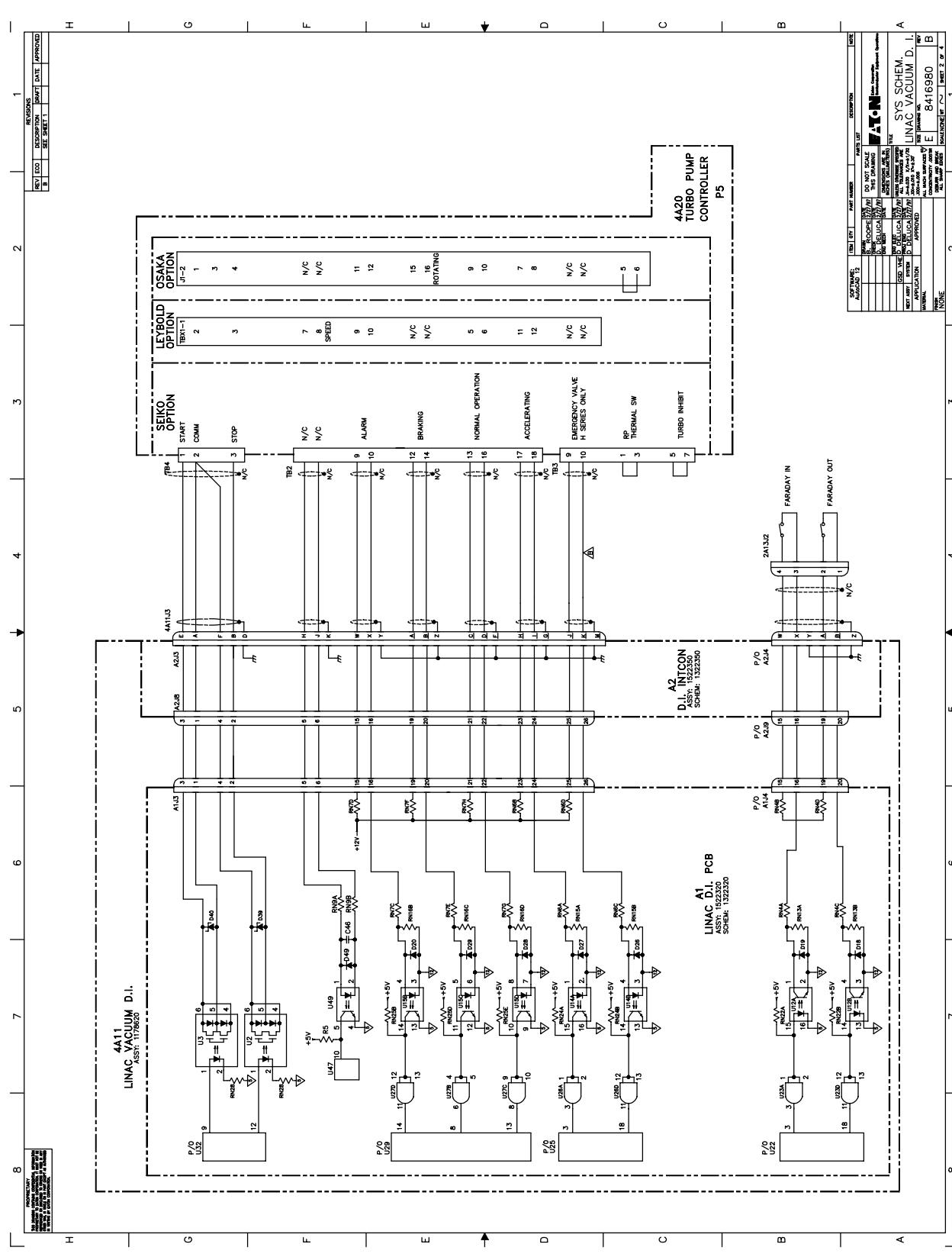


Return to CD-ROM Table of Contents

[Return to Table of Contents](#)

[Return to Module Map](#)

System Schematic Linac Vacuum DI - 8416980

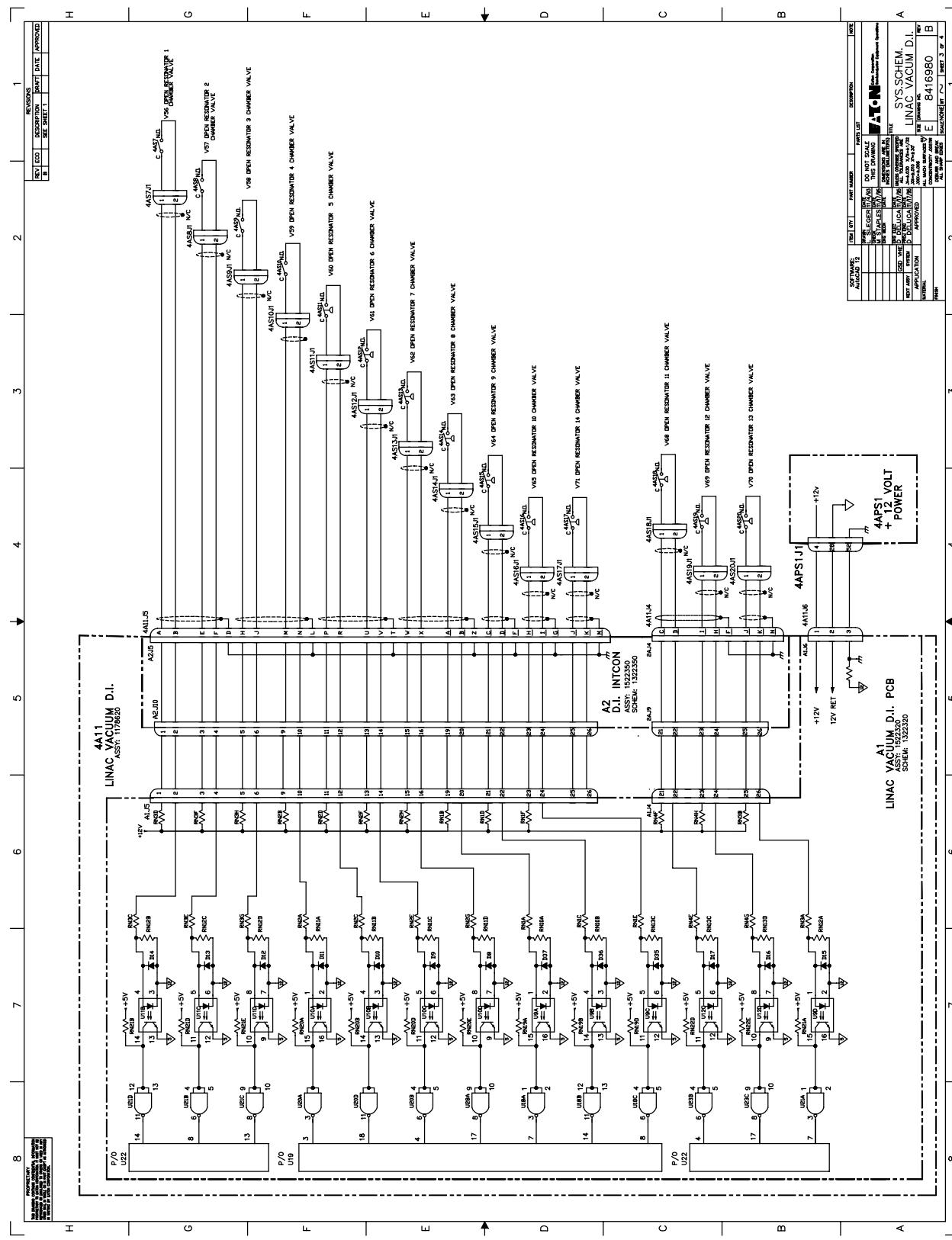


[Return to CD-ROM Table of Contents](#)

[Return to Table of Contents](#)

[Return to Module Map](#)

System Schematic Linac Vacuum DI - 8416980

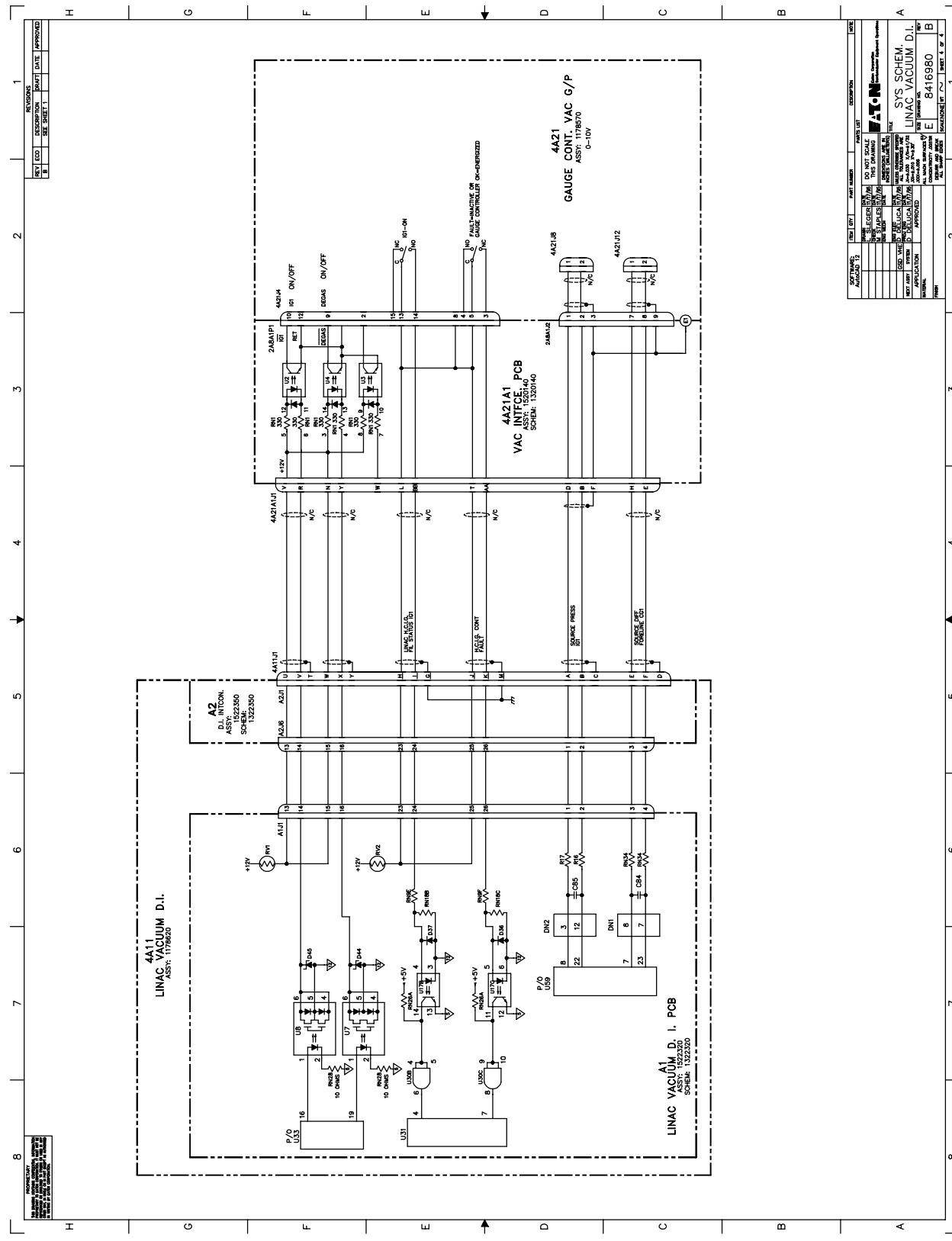


[Return to CD-ROM Table of Contents](#)

[Return to Table of Contents](#)

Return to Module Map

System Schematic Linac Vacuum DI - 8416980

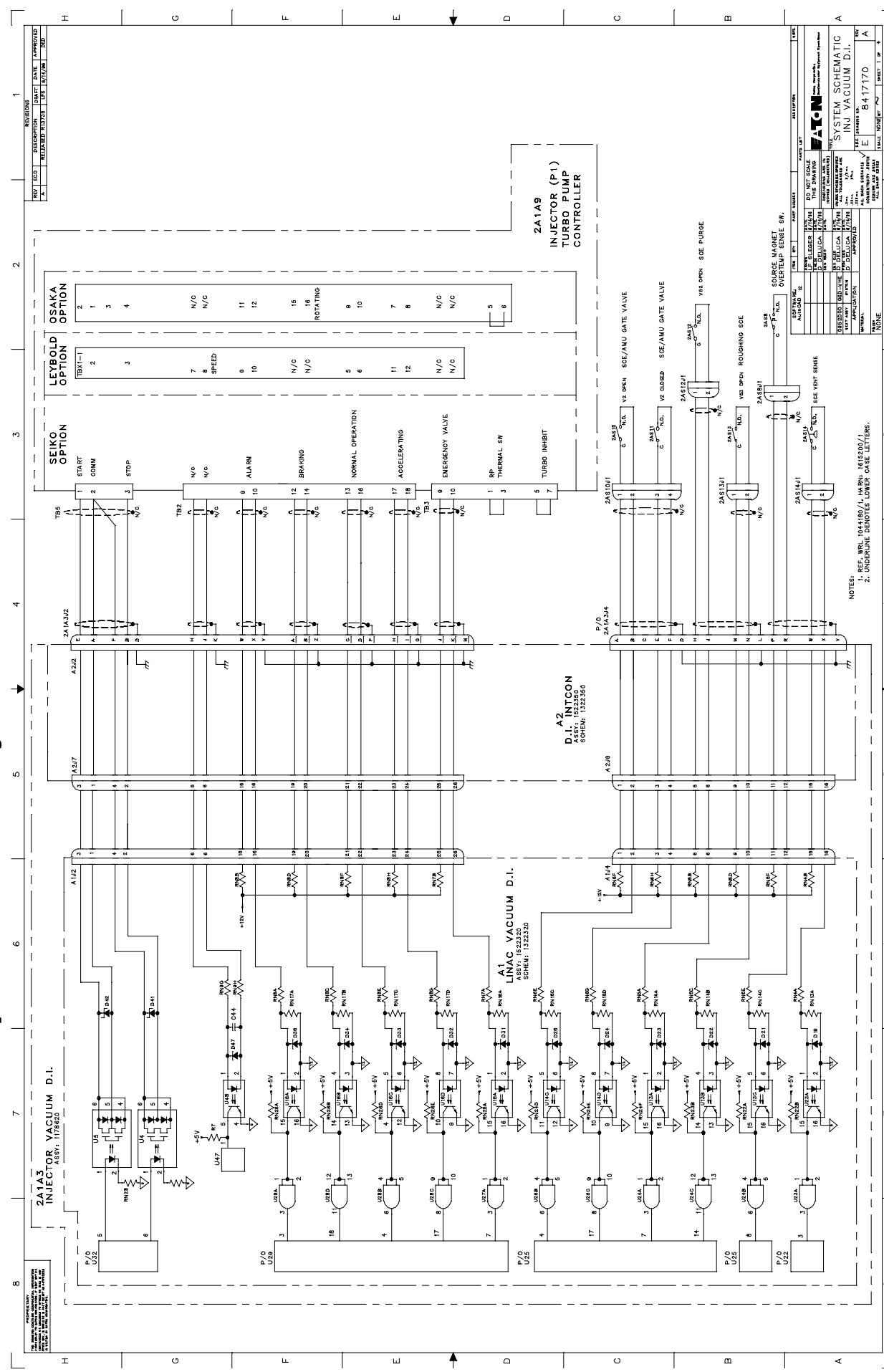


[Return to CD-ROM Table of Contents](#)

[Return to Table of Contents](#)

System Schematic Injector Vacuum D.I. - 8417170

Return to Module Map

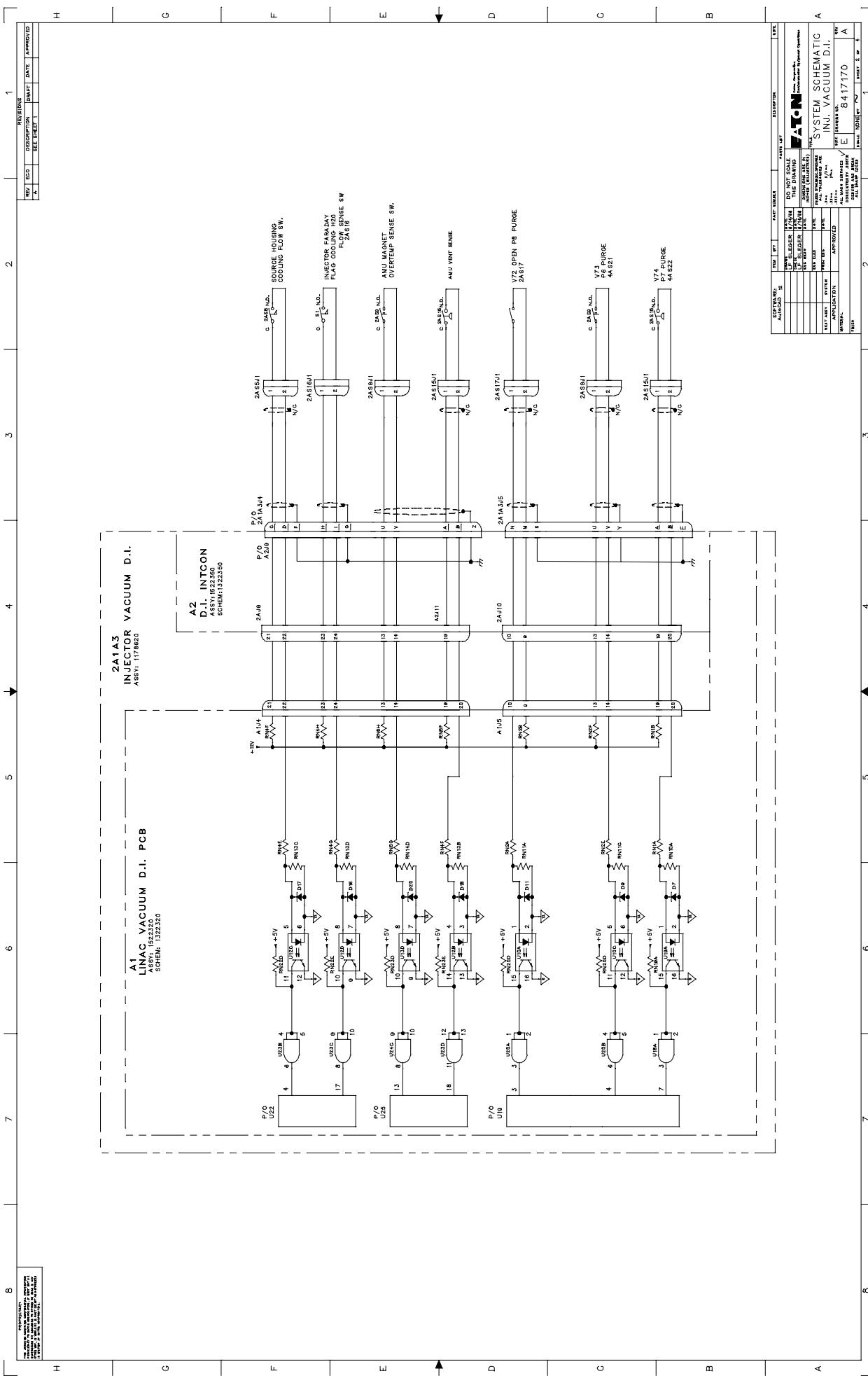


Return to CD-ROM Table of Contents

Return to Table of Contents

Return to Module Map

System Schematic Injector Vacuum D.I. - 8417170

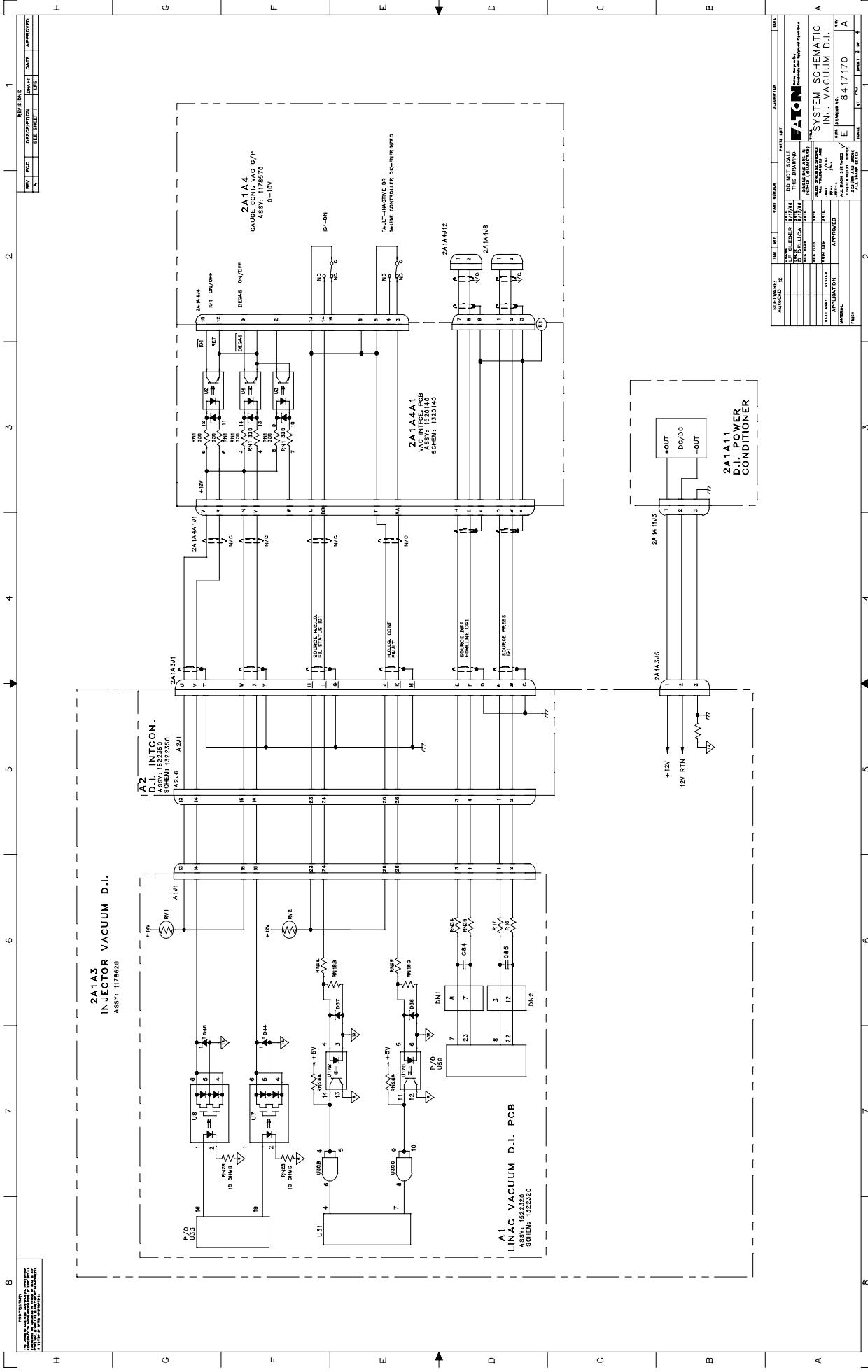


Return to CD-ROM Table of Contents

[Return to Table of Contents](#)

[Return to Module Map](#)

System Schematic Injector Vacuum D.I. - 8417170

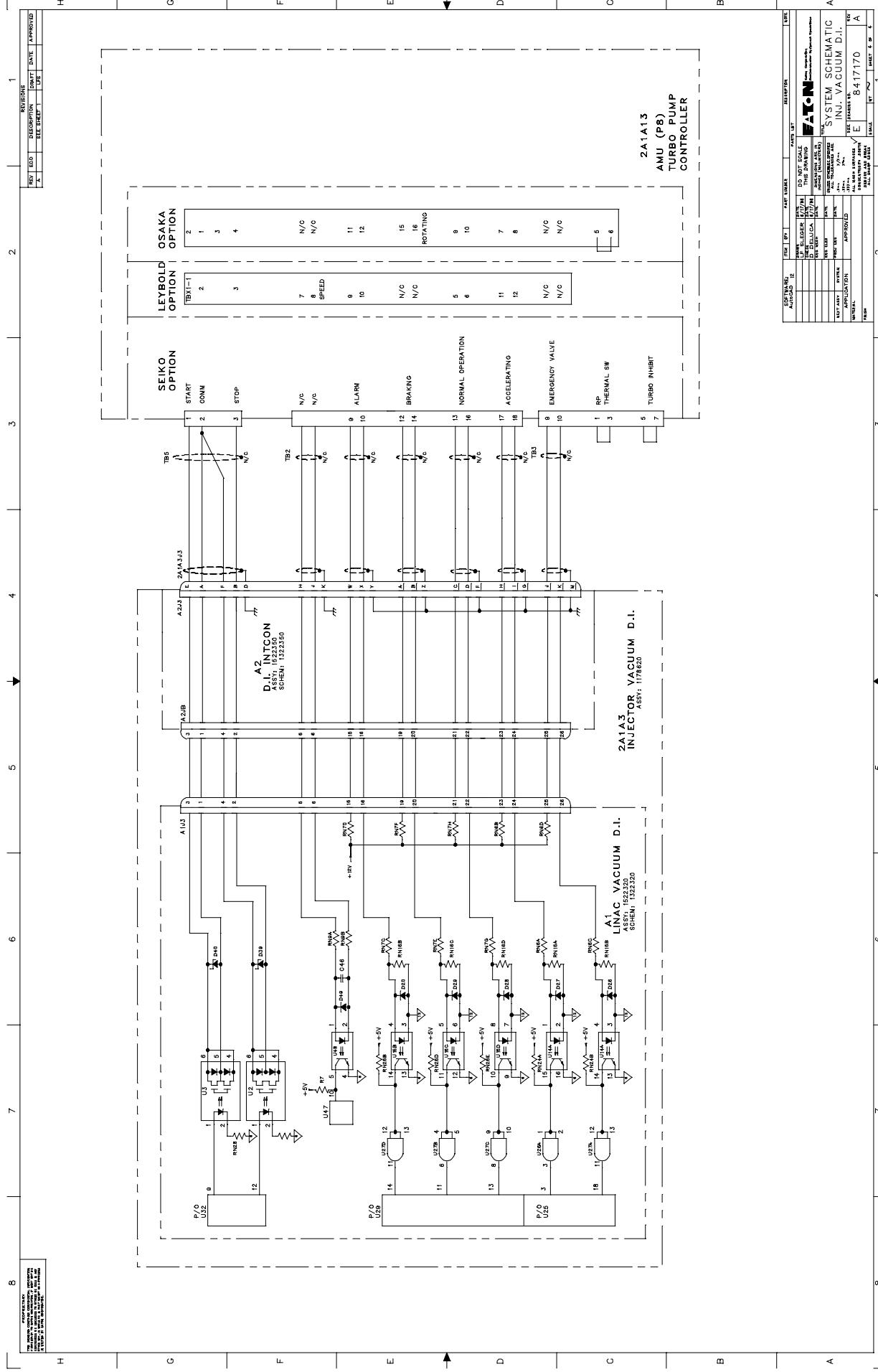


[Return to CD-ROM Table of Contents](#)

Return to Table of Contents

System Schematic Injector Vacuum D.I. - 8417170

Return to Module Map

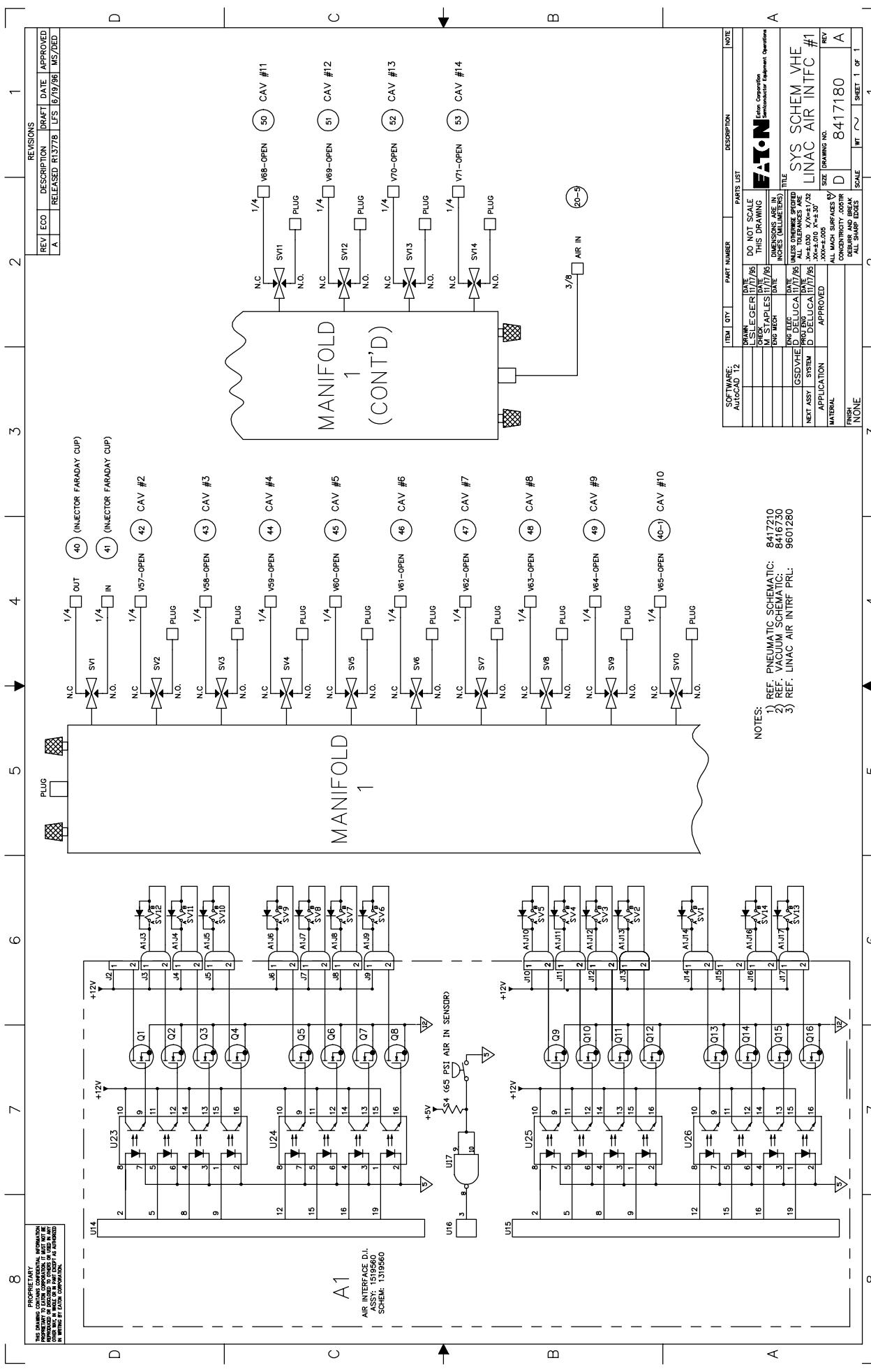


Return to CD-ROM Table of Contents

Return to Table of Contents

Return to Module Map

System Scheme, ATIC Linac Air Interface #1 - 8417180



Return to CD-ROM Table of Contents