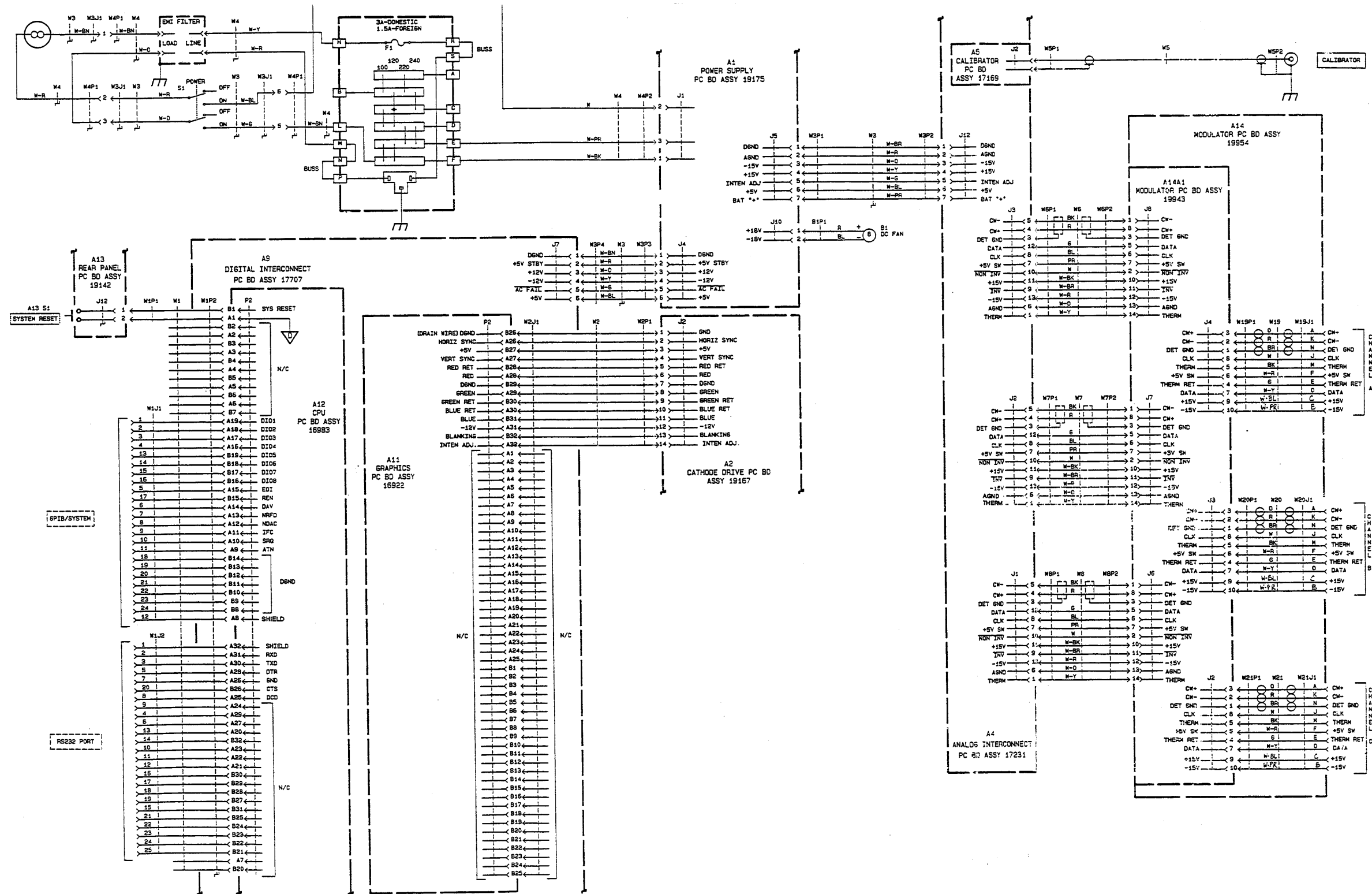
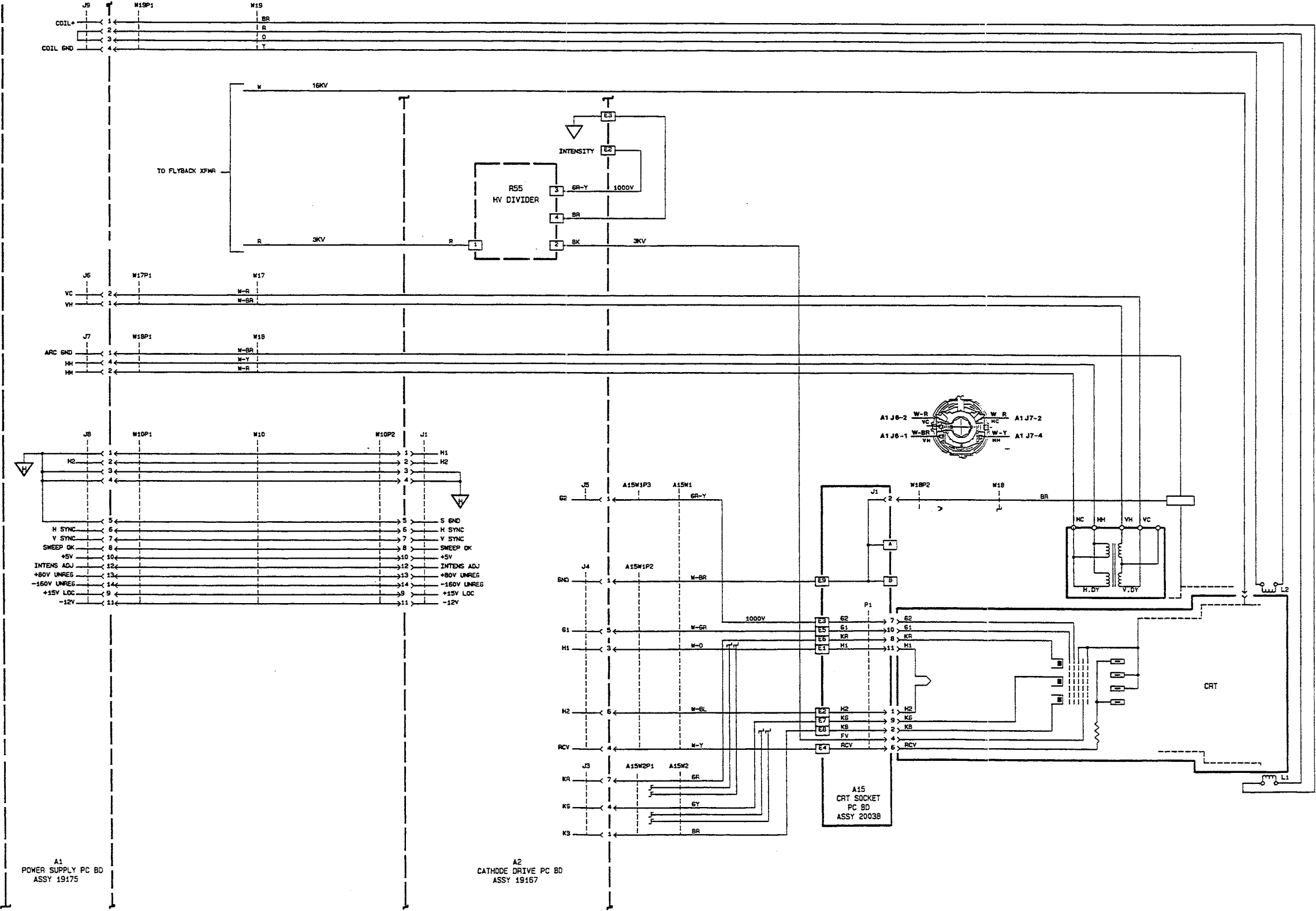
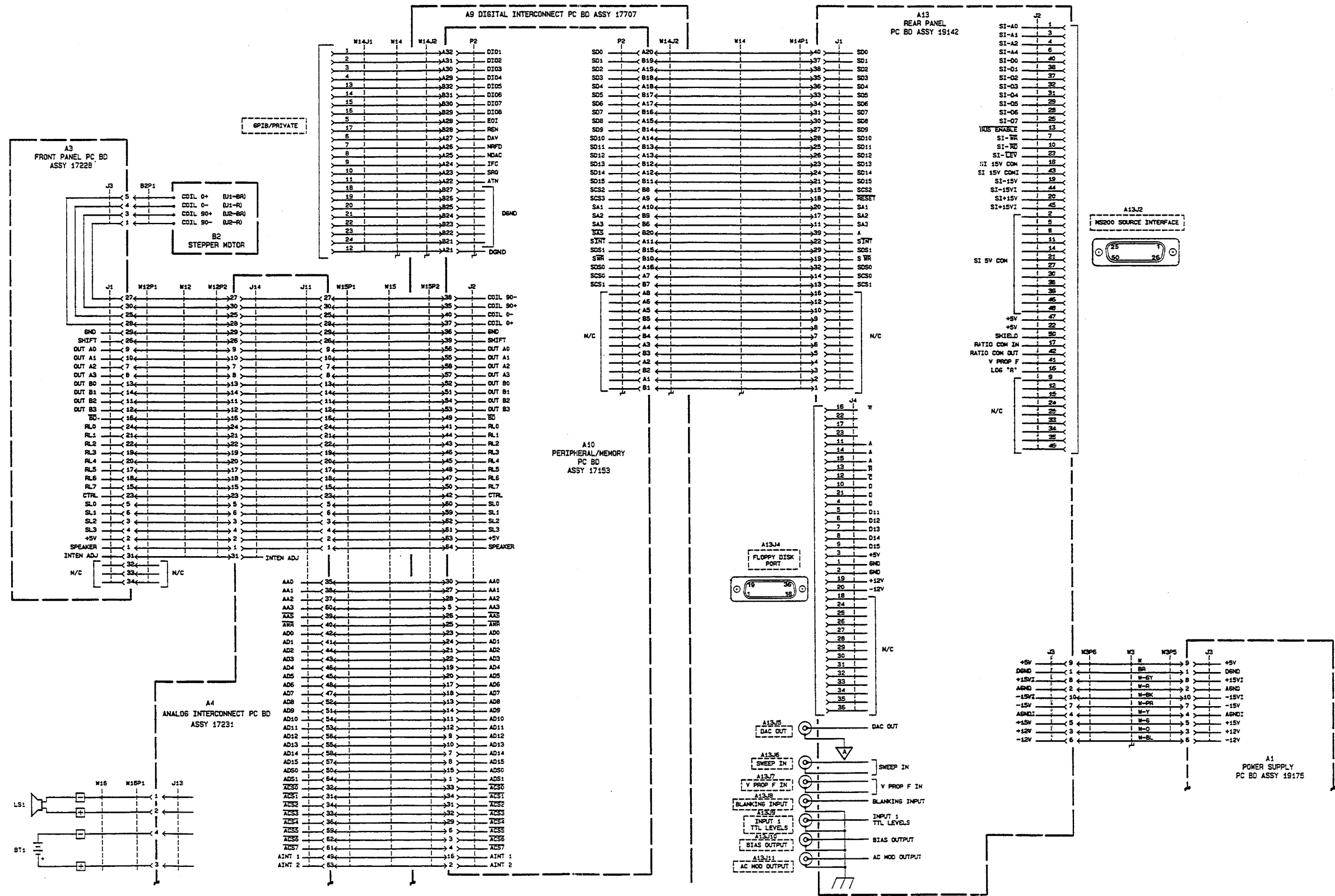


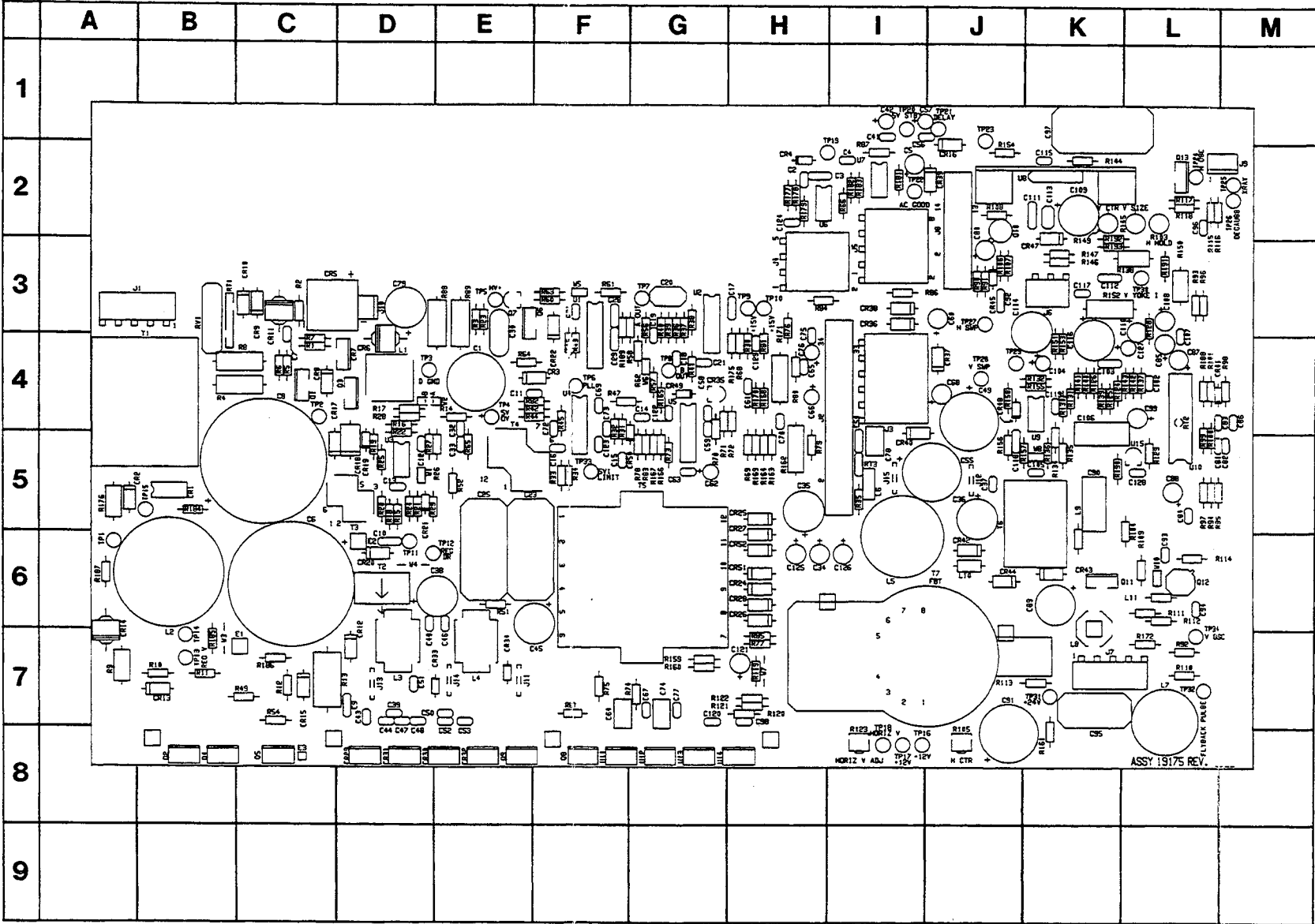




8003 Scalar Analyzer, DWG 19525, Rev. A (2 of 3)

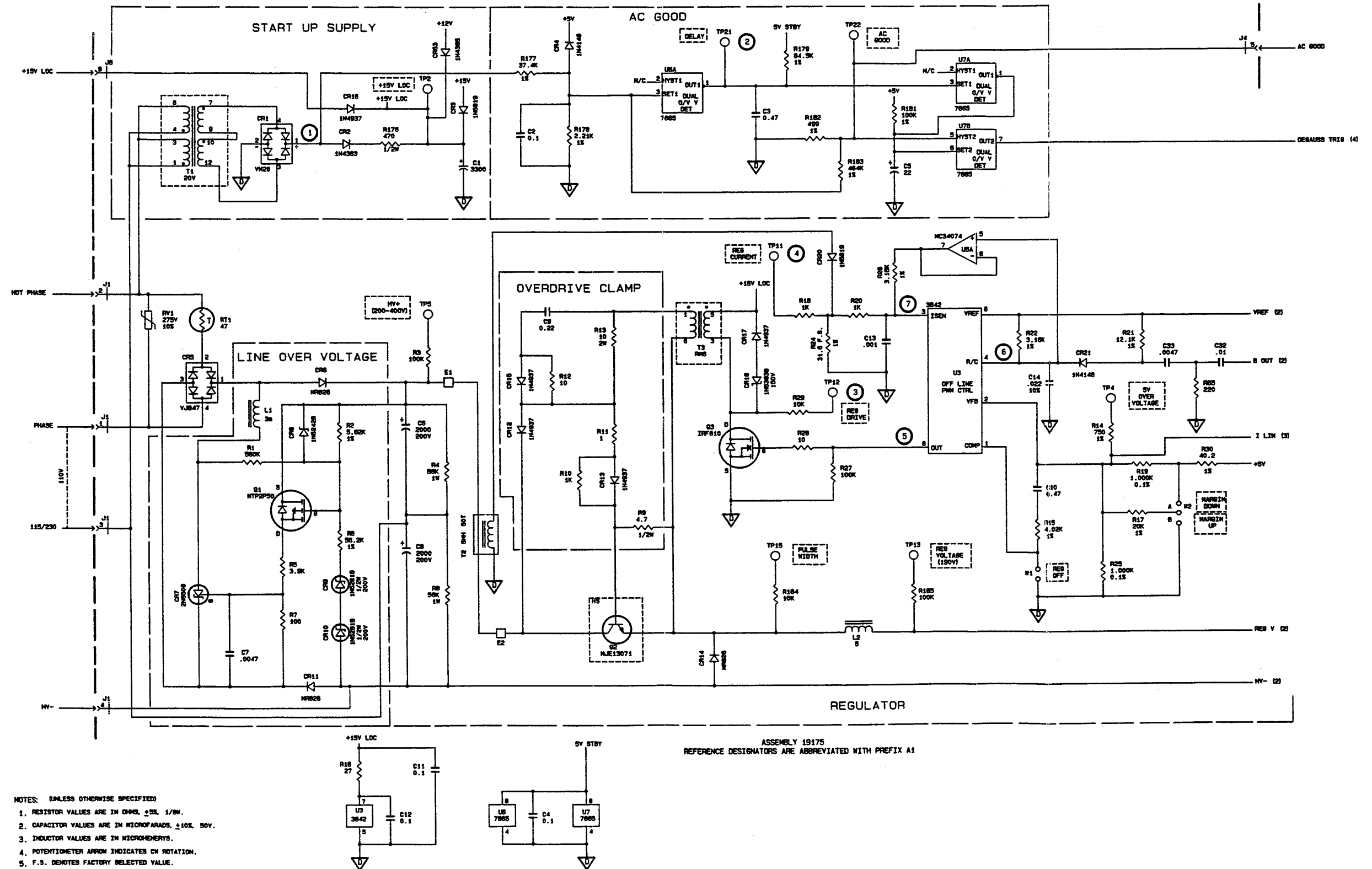


8003 Scalar Analyzer, DWG 19525, Rev. A (3 of 3)

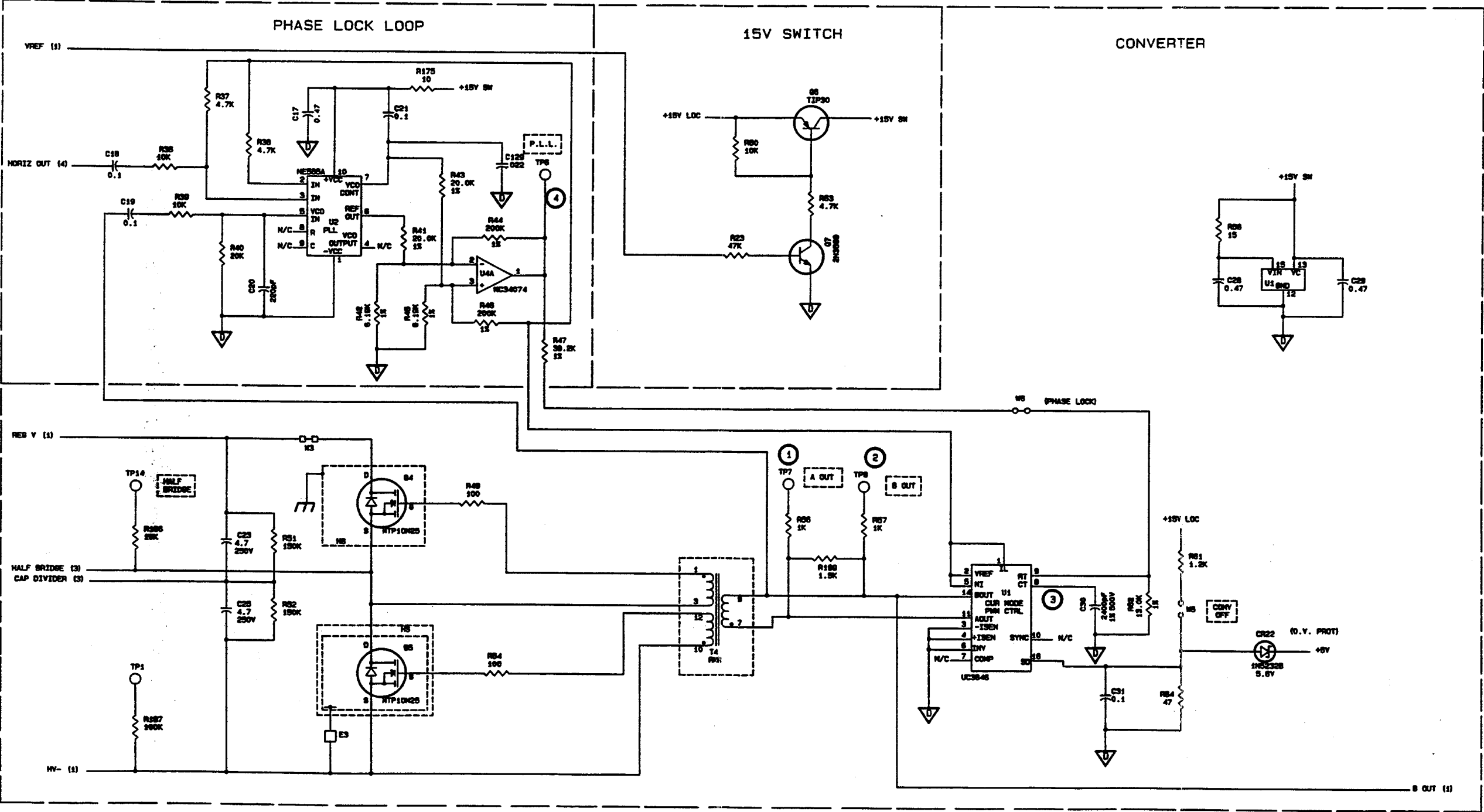


CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC
C1	E-4	C57	I-1	C112	K-3	CR31	D-8	Q1	C-4	R35	I-5	R92	L-7	R147	K-3
C2	H-2	C58	G-4	C113	K-2	CR32	E-8	Q2	B-8	R36	G-3	R93	L-3	R149	K-2
C3	I-2	C59	G-5	C114	K-3	CR33	D-7	Q3	D-4	R37	G-3	R94	L-5	R150	L-3
C4	I-2	C60	J-3	C115	K-2	CR34	E-7	Q4	B-8	R38	G-3	R95	L-5	R151	K-4
C5	I-2	C61	H-4	C116	K-4	CR35	G-4	Q5	C-8	R39	G-3	R96	L-3	R152	K-3
C6	C-5	C62	G-5	C117	K-3	CR36	I-3	Q6	F-3	R40	G-3	R97	L-5	R153	K-4
C7	C-4	C63	G-5	C118	J-5	CR37	J-4	Q7	E-3	R41	G-4	R98	M-4	R154	J-2
C8	C-4	C64	F-7	C119	K-4	CR38	I-3	Q8	F-8	R42	E-4	R99	L-5	R155	K-4
C9	D-7	C65	H-4	C120	G-7	CR39	J-2	Q9	E-8	R43	F-4	R100	L-5	R156	J-5
C10	D-6	C66	H-4	C121	H-7	CR40	I-5	Q10	J-2	R44	E-4	R101	L-4	R157	J-5
C11	E-4	C67	G-7	C122	G-4	CR41	L-4	Q11	K-6	R45	F-4	R103	L-2	R158	J-4
C12	D-5	C68	J-4	C123	F-5	CR42	J-6	Q12	L-6	R46	F-4	R104	L-6	R159	G-7
C13	D-5	C69	F-4	C124	H-2	CR43	K-6	Q13	L-2	R47	F-4	R105	J-8	R160	G-7
C14	G-4	C70	H-5	C125	H-6	CR44	J-6			R49	C-7	R106	J-3	R161	K-8
C15	F-5	C72	F-4	C126	I-6	CR45	J-3			R51	E-6	R107	J-3	R162	H-5
C16	F-5	C73	F-4	C127	L-4	CR47	K-3			R52	E-5	R108	J-2	R163	H-5
C17	H-3	C74	G-7	C128	L-5	CR48	J-4			R54	C-7	R109	L-6	R164	H-5
C18	G-4	C75	H-3	C129	H-4	CR49	G-4	R1	C-4	R56	G-3	R110	L-7	R165	G-4
C19	G-3	C76	H-4			CR50	G-5	R2	C-3	R57	G-4	R111	L-6	R166	G-5
C20	G-3	C77	G-7			CR51	H-6	R3	E-3	R58	G-4	R112	L-6	R167	G-5
C21	G-4	C78	I-5			CR52	H-6	R4	C-4	R60	F-3	R113	J-7	R168	H-4
C23	E-5	C79	D-3	CR1	B-5	J1	B-3	R5	C-4	R61	F-3	R114	L-6	R169	H-4
C25	E-5	C80	J-2	CR2	A-5	J2	H-4	R6	C-4	R62	G-4	R115	L-2	R170	H-4
C28	F-3	C81	L-5	CR3	F-4	J3	I-4	R7	C-4	R63	F-3	R116	L-2	R171	H-4
C29	F-4	C82	L-5	CR4	H-2	J4	H-3	R8	C-4	R64	E-4	R117	L-2	R172	L-7
C30	E-3	C83	M-4	CR5	C-3	J5	I-3	R9	A-7	R65	E-5	R118	L-2	R175	H-4
C31	F-3	C84	L-5	CR6	D-4	J6	K-3	R10	B-7	R66	I-2	R119	H-7	R176	A-5
C32	E-4	C85	L-4	CR7	D-4	J7	K-7	R11	B-7	R67	F-7	R120	H-7	R177	H-2
C33	E-5	C86	M-4	CR8	C-4	J8	J-2	R12	C-7	R68	H-4	R121	H-7	R178	H-2
C34	H-6	C87	L-4	CR9	C-3	J9	M-2	R13	D-7	R69	H-4	R122	H-7	R179	H-2
C35	H-5	C88	L-5	CR10	C-3	J10	D-3	R14	E-4	R70	G-5	R123	I-8	R181	I-2
C36	J-5	C89	K-6	CR11	C-3	J11	E-7	R15	D-5	R71	G-5	R124	K-4	R182	I-2
C37	J-5	C90	K-5	CR12	D-7	J12	J-5	R16	D-4	R72	H-5	R125	K-4	R183	I-2
C38	E-6	C91	J-7	CR13	B-7	J13	D-7	R17	D-4	R73	G-5	R126	K-4	R184	B-5
C39	D-7	C92	J-3	CR14	A-7	J14	E-7	R18	D-5	R74	G-7	R128	L-3	R185	B-7
C40	D-7	C93	L-6	CR15	C-7	J15	I-5	R19	D-5	R75	F-7	R129	L-5	R186	C-7
C41	I-1	C94	L-6	CR16	J-2			R20	D-5	R76	H-3	R130	K-4	R187	A-6
C42	I-1	C95	K-7	CR17	C-4			R21	D-5	R77	H-7	R131	K-4	R188	L-4
C43	D-7	C96	L-2	CR18	D-5	L1	D-4	R22	D-5	R78	G-5	R132	K-4	R189	F-4
C44	D-7	C97	K-1	CR19	D-5	L2	B-7	R23	E-3	R79	H-5	R134	K-5	R190	K-5
C45	F-7	C98	H-7	CR20	D-6	L3	D-7	R24	D-5	R80	H-4	R135	K-5	R191	L-3
C46	E-7	C99	L-4	CR21	D-5	L4	E-7	R25	D-5	R81	H-4	R136	K-5	R192	K-3
C47	D-7	C102	L-4	CR22	F-4	L5	I-6	R26	E-5	R82	E-4	R137	L-4	R193	K-3
C48	D-7	C103	K-4	CR24	H-6	L6	I-5	R27	D-5	R83	G-5	R138	K-3		
C49	J-4	C104	K-4	CR25	H-5	L7	L-7	R28	D-4	R84	H-3	R139	K-4		
C50	D-7	C105	K-5	CR26	H-6	L8	K-7	R29	E-5	R85	H-7	R140	K-4		
C51	D-7	C106	K-4	CR27	H-5	L9	K-5	R30	H-4	R86	I-3	R141	K-4		
C52	E-7	C107	L-4	CR28	H-6	L10	J-6	R31	F-4	R87	I-2	R142	L-4	RT1	B-3
C53	E-7	C108	L-3	CR29	D-8	L11	L-6	R32	F-4	R88	E-3	R143	K-4	RT2	L-4
C54	I-4	C109	K-2	CR30	D-8			R33	F-5	R89	E-3	R144	K-2	RT3	I-5
C55	J-5	C110	L-3					R34	F-5	R90	J-3	R145	L-2	RV1	B-3
C56	I-1	C111	K-2							R91	J-3	R146	K-3		

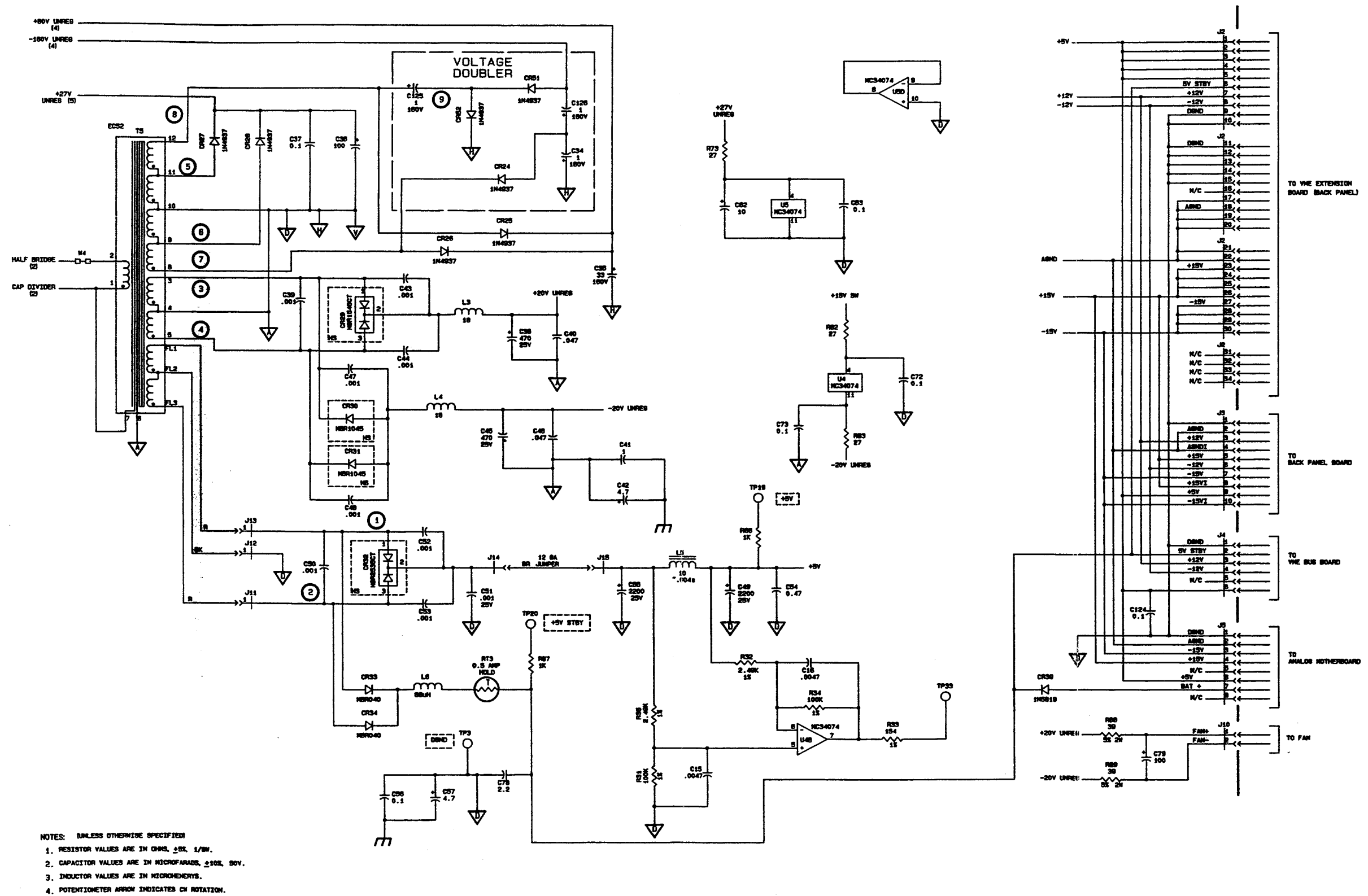
Power Supply PCB, DWG 19175



Power Supply, DWG 19176, Rev. X (1 of 7)

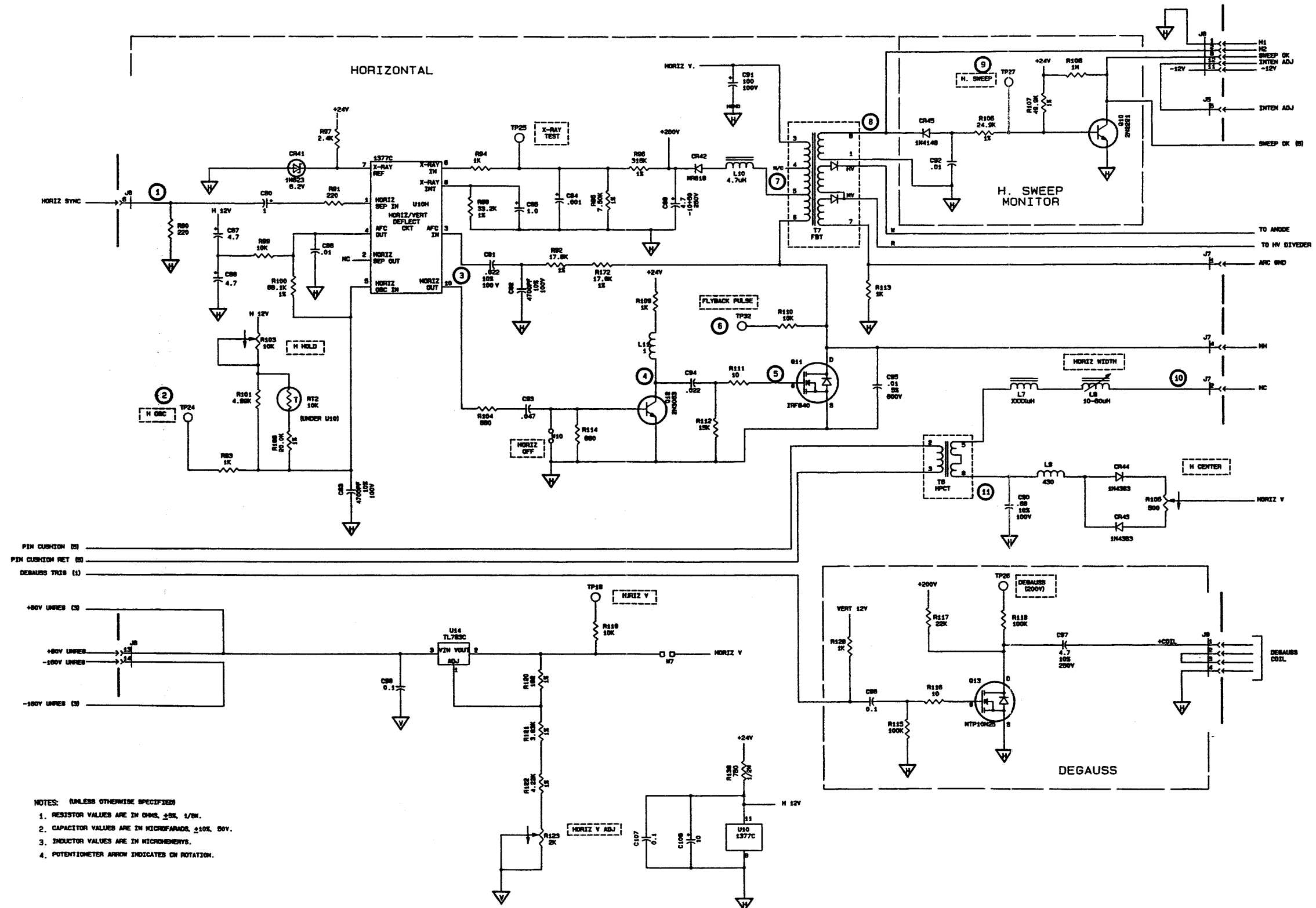


- NOTES: (UNLESS OTHERWISE SPECIFIED)
- 1. RESISTOR VALUES ARE IN OHMS, $\pm 5\%$, 1/8W.
 - 2. CAPACITOR VALUES ARE IN MICROFARADS, $\pm 30\%$, 50V.
 - 3. INDUCTOR VALUES ARE IN MICROHENRYS.
 - 4. POTENTIOMETER ARROW INDICATES CW ROTATION.

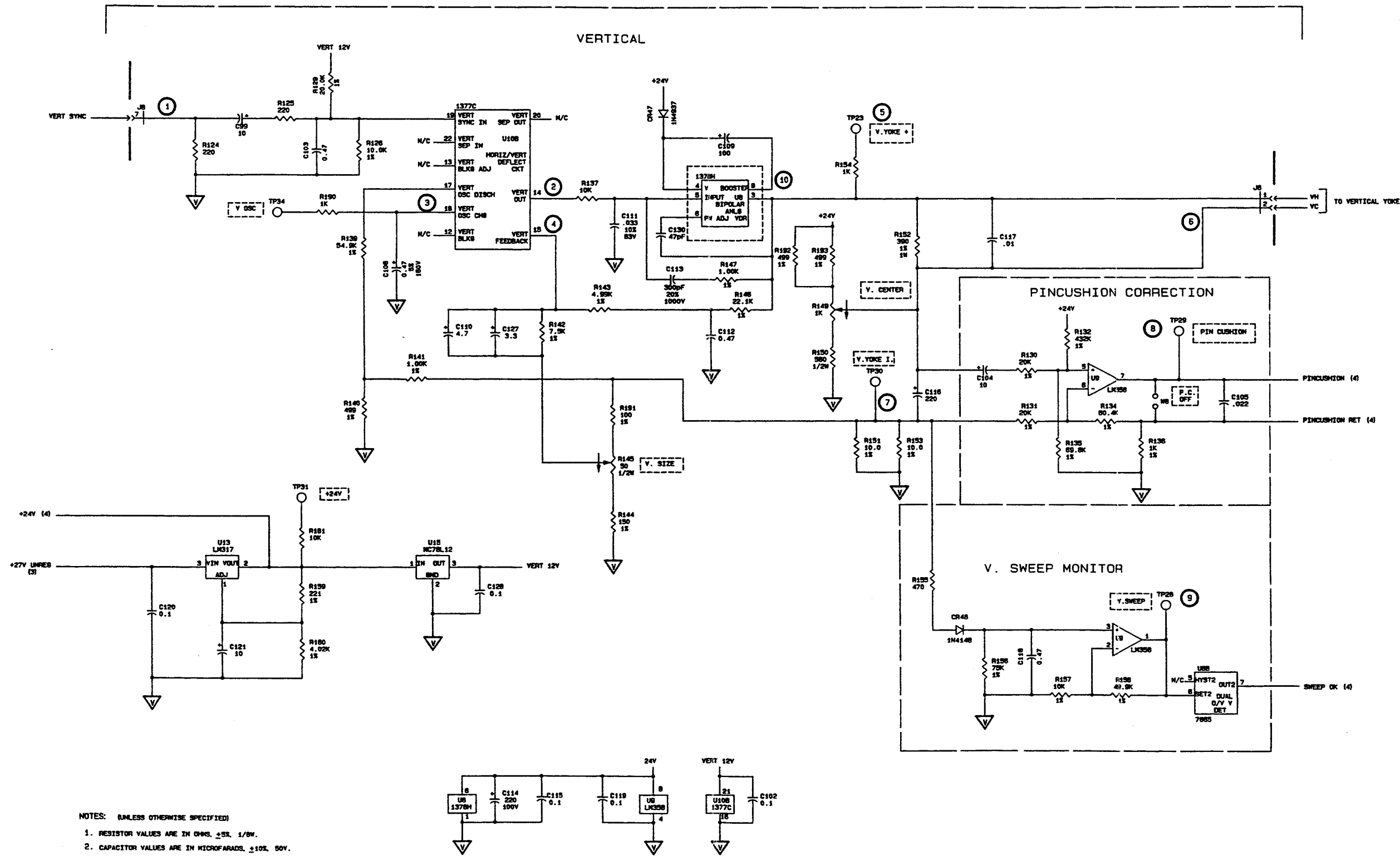


Power Supply, DWG 19176, Rev. X (3 of 7)

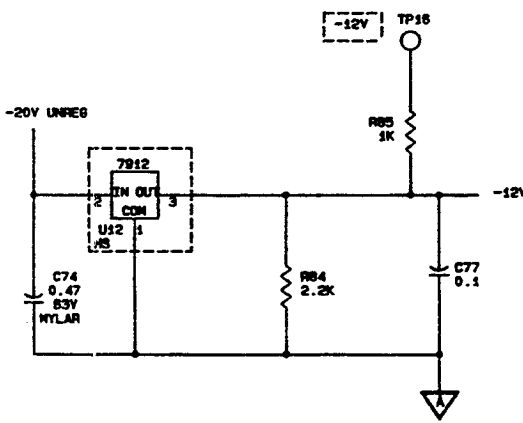
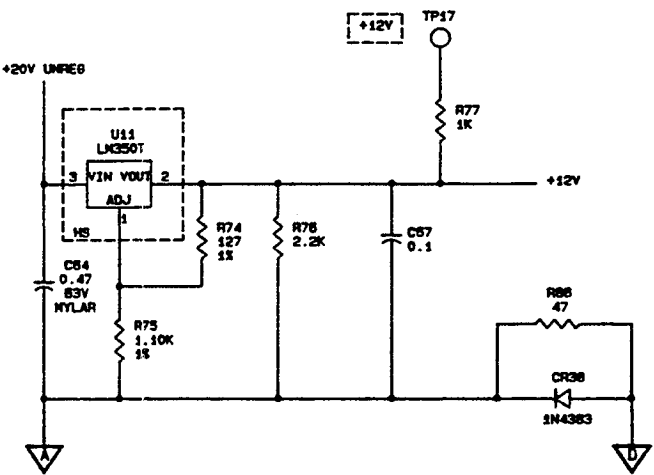
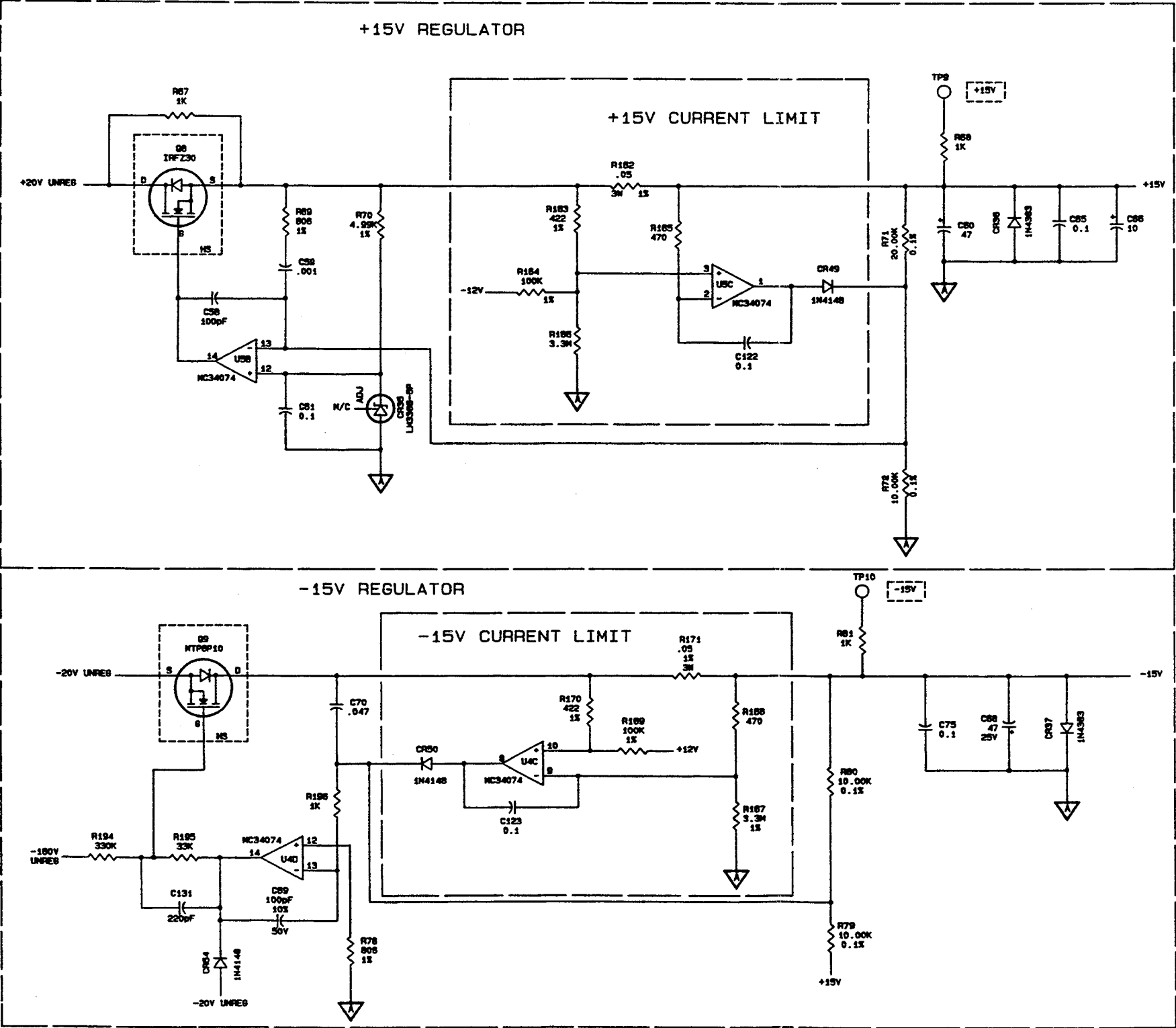
8003 Precision Scalar Analyzer



Power Supply, DWG 19176, Rev. X (4 of 7)

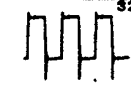
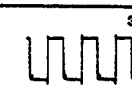
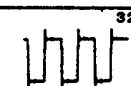
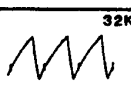
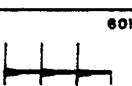
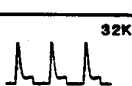
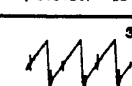
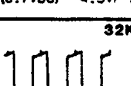
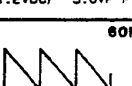
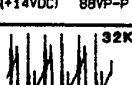
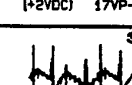
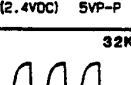
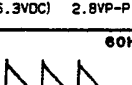
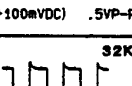
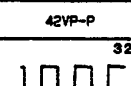
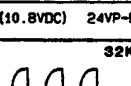
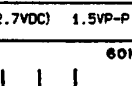
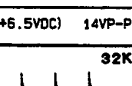
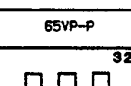
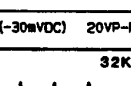
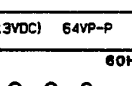
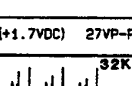
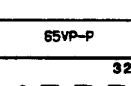
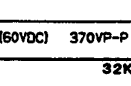
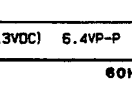
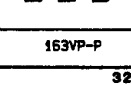
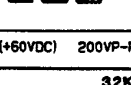
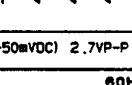
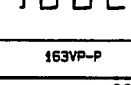
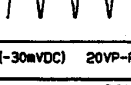
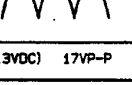
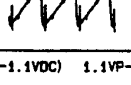
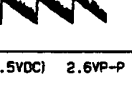


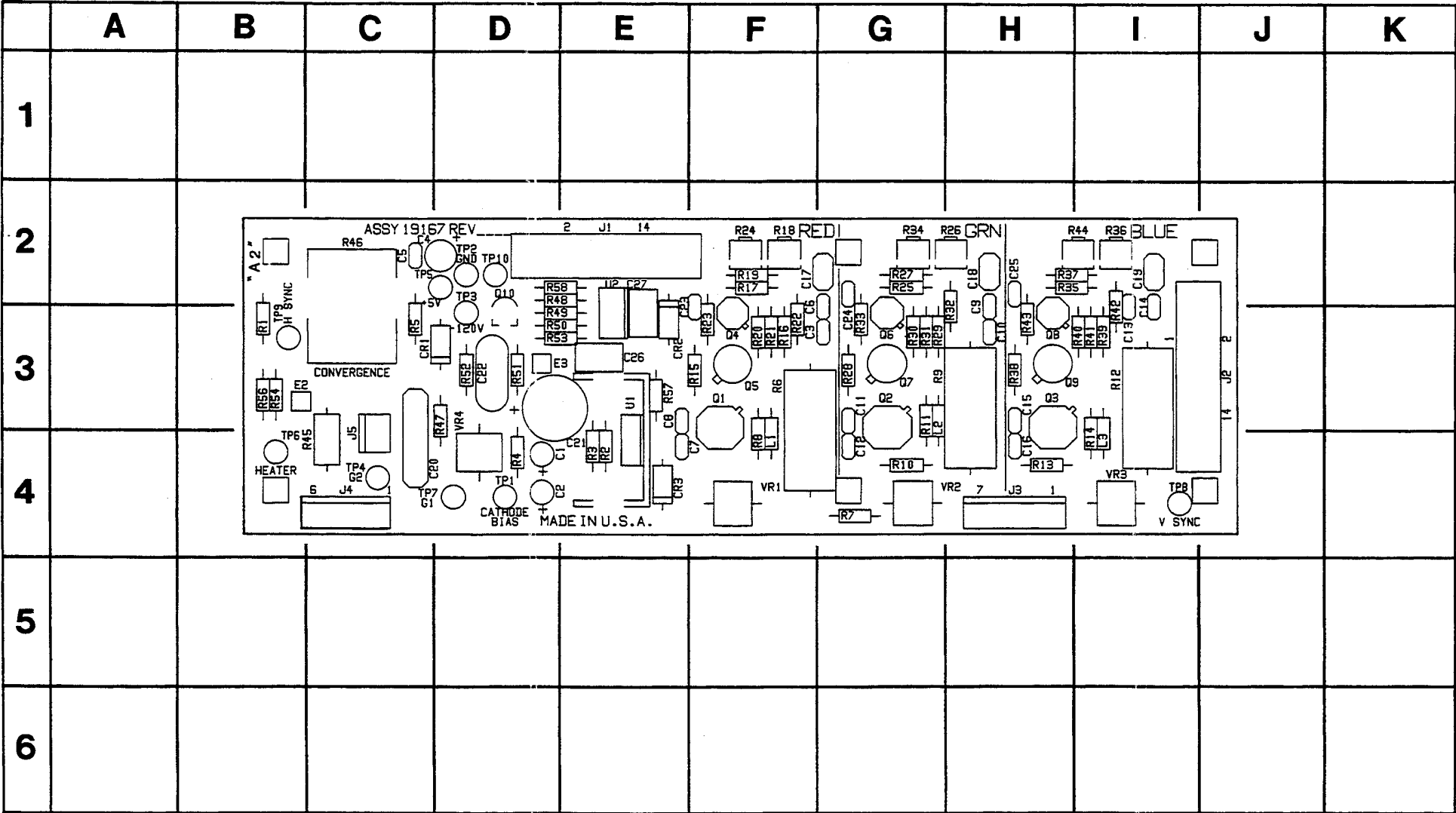
- NOTES: (UNLESS OTHERWISE SPECIFIED)
1. RESISTOR VALUES ARE IN OHMS, $\pm 5\%$, 1/8W.
 2. CAPACITOR VALUES ARE IN MICROFARADS, $\pm 10\%$, 50V.
 3. INDUCTOR VALUES ARE IN MICROHENRYS.
 4. POTENTIOMETER ARROW INDICATES CW ROTATION.



- NOTES: (UNLESS OTHERWISE SPECIFIED)
- 1. RESISTOR VALUES ARE IN OHMS, $\pm 5\%$, 1/8W.
 - 2. CAPACITOR VALUES ARE IN MICROFARADS, $\pm 10\%$, 50V.
 - 3. INDUCTOR VALUES ARE IN MICROHENRYS.
 - 4. POTENTIOMETER ARROW INDICATES CW ROTATION.

Power Supply, DWG 19176, Rev. X (6 of 7)

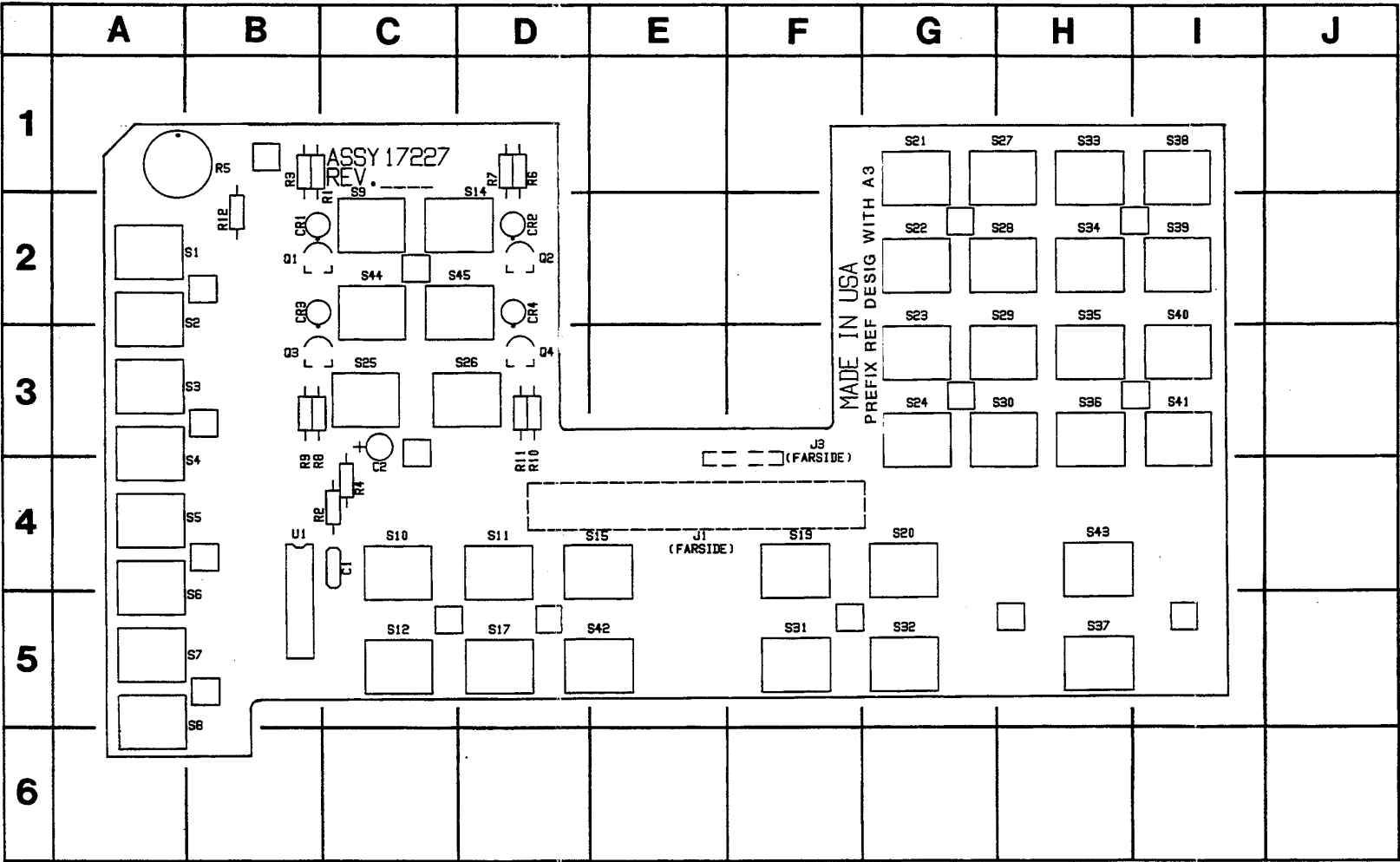
SHEET 1		SHEET 2		SHEET 3		SHEET 4		SHEET 5	
①	120Hz  (+22VDC) 34VP-P	①	32KHz  (+5.9VDC) 13VP-P	①	32KHz  12VP-P	①	32KHz  (3.1VDC) 3.5VP-P	①	60Hz  (1VDC) 3.5VP-P
②	120Hz  (+73mVDC) .5VP-P	②	32KHz  (+5.9VDC) 13VP-P	②	32KHz  12VP-P	②	32KHz  (6.7VDC) 4.5VP-P	②	60Hz  (1.2VDC) 3.6VP-P
③	32KHz  (+14VDC) 88VP-P	③	32KHz  (+2VDC) 17VP-P	③	32KHz  42VP-P	③	32KHz  (2.4VDC) 5VP-P	③	60Hz  (6.3VDC) 2.8VP-P
④	32KHz  (+100mVDC) .5VP-P	④	32KHz  (+5.9VDC) .5VP-P	④	32KHz  42VP-P	④	32KHz  (10.8VDC) 24VP-P	④	60Hz  (2.7VDC) 1.5VP-P
⑤	32KHz  (+6.5VDC) 14VP-P			⑤	32KHz  65VP-P	⑤	32KHz  (-30mVDC) 20VP-P	⑤	60Hz  (13VDC) 64VP-P
⑥	32KHz  (+1.7VDC) 27VP-P			⑥	32KHz  65VP-P	⑥	32KHz  (60VDC) 370VP-P	⑥	60Hz  (13VDC) 6.4VP-P
⑦	32KHz  (+.5VDC) .5VP-P			⑦	32KHz  163VP-P	⑦	32KHz  (+60VDC) 200VP-P	⑦	60Hz  (-50mVDC) 2.7VP-P
				⑧	32KHz  163VP-P	⑧	32KHz  (-30mVDC) 20VP-P	⑧	60Hz  (13VDC) 17VP-P
				⑨	32KHz  181VP-P	⑨	32KHz  (-1.1VDC) 1.1VP-P	⑨	60Hz  (3.5VDC) 2.6VP-P
						⑩	32KHz  (+60VDC) 27VP-P	⑩	60Hz  (1.4VDC) 24VP-P
						⑪	32KHz  (+60VDC) 5.9VP-P		



CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC
C1	D-4	E1		R7	G-4	R42	I-2	VR1	F-4
C2	D-4	E2	B-3	R8	F-4	R43	H-3	VR2	G-4
C3	G-3	E3	D-3	R9	H-3	R44	I-2	VR3	I-4
C4	D-2			R10	G-4	R45	C-4	VR4	D-4
C5	C-2			R11	G-3	R46	C-2		
C6	G-3	J1	E-2	R12	I-3	R47	D-3		
C7	E-4	J2	J-3	R13	H-4	R48	E-2		
C8	E-3	J3	H-4	R14	I-4	R49	E-3		
C9	H-3	J4	C-4	R15	F-3	R50	E-3		
C10	H-3	J5	C-4	R16	F-3	R51	D-3		
C11	G-3			R17	F-2	R52	D-3		
C12	G-4			R18	F-2	R53	E-3		
C13	I-3	L1	F-4	R19	F-2	R54	B-3		
C14	I-3	L2	G-4	R20	F-3	R55			
C15	H-3	L3	I-4	R21	F-3	R56	B-3		
C16	H-4			R22	F-3	R57	E-3		
C17	G-2			R23	F-3	R58	E-2		
C18	H-2	Q1	F-3	R24	F-2				
C19	I-2	Q2	G-3	R25	G-2				
C20	C-4	Q3	H-3	R26	H-2				
C21	D-3	Q4	F-3	R27	G-2	TP1	D-4		
C22	D-3	Q5	F-3	R28	G-3	TP2	D-2		
C23	F-3	Q6	G-3	R29	G-3	TP3	D-3		
C24	G-2	Q7	G-3	R30	G-3	TP4	C-4		
C25	H-2	Q8	H-3	R31	G-3	TP5	D-2		
C26	E-3	Q9	H-3	R32	H-2	TP6	B-4		
C27	E-3	Q10	D-3	R33	G-3	TP7	D-4		
				R34	G-2	TP8	I-4		
				R35	I-2	TP9	B-3		
				R36	I-2	TP10	D-2		
CR1	D-3	R1	B-3	R37	I-2				
CR2	E-3	R2	E-4	R38	H-3				
CR3	E-4	R3	E-4	R39	I-3	U1	E-4		
		R4	D-4	R40	I-3	U2	E-3		
		R5	C-3	R41	I-3				
		R6	F-3						

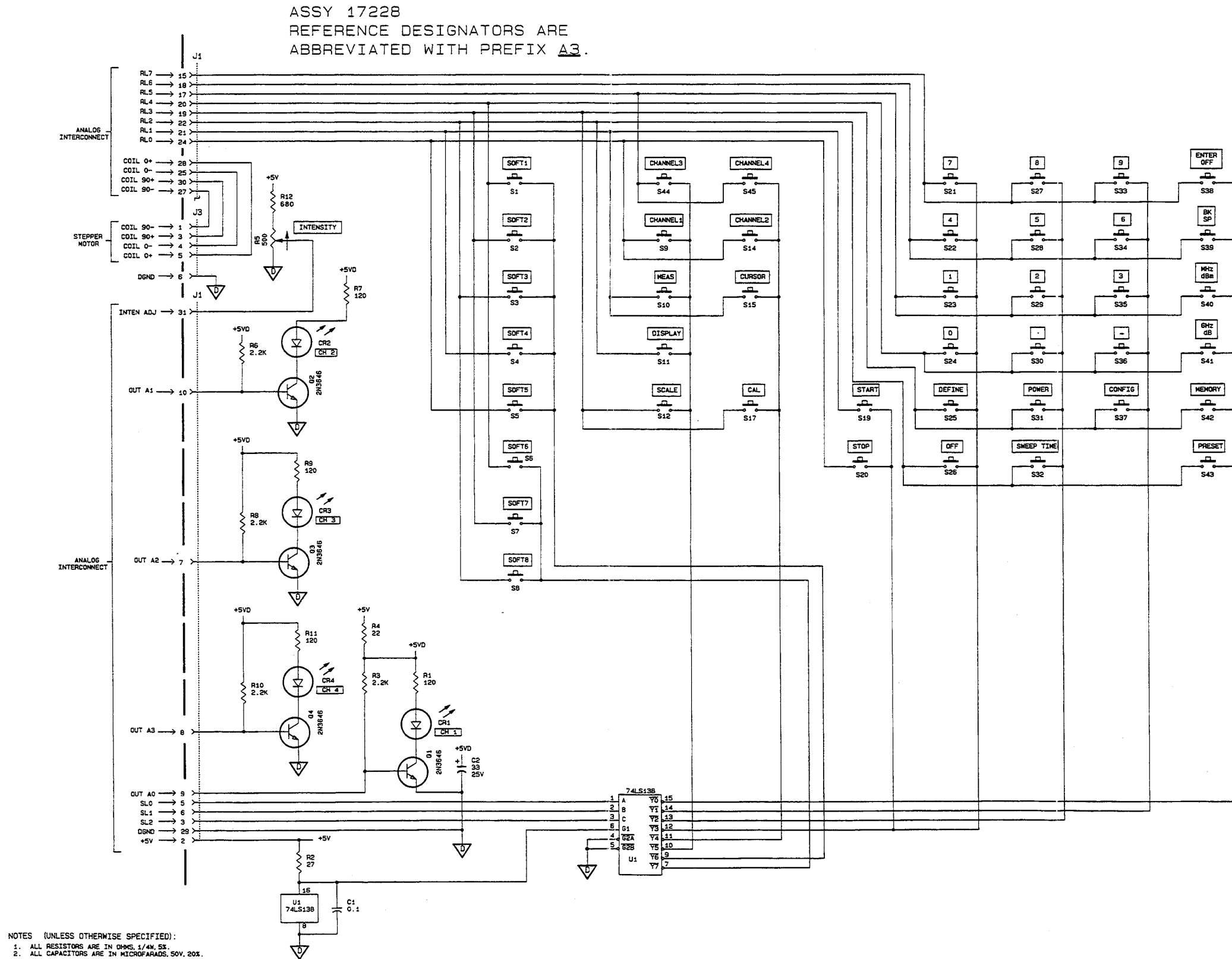
CRT Cathode PCB Assy, DWG 19167



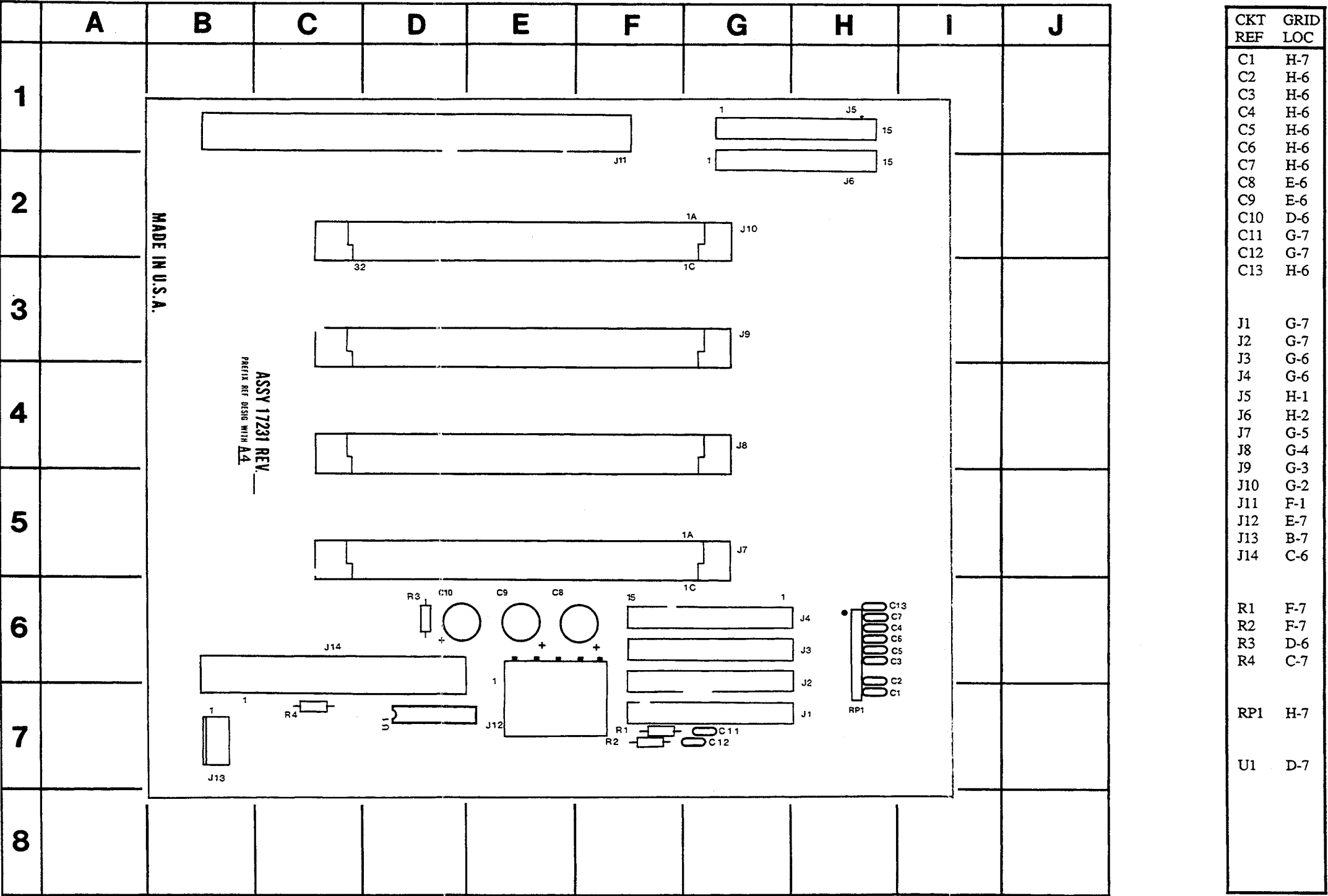


CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC
C1	C-4	J3	F-4	R4	C-4	S2	A-3	S14	D-2	S26	D-3	S38	I-1
C2	C-4			R5	B-1	S3	A-3	S15	E-4	S27	H-1	S39	I-2
				R6	D-1	S4	A-4	S16		S28	H-2	S40	I-3
		Q1	C-2	R7	D-1	S5	A-4	S17	D-5	S29	H-3	S41	I-3
CR1	C-2	Q2	D-2	R8	B-3	S6	A-5	S18		S30	H-3	S42	E-5
CR2	D-2	Q3	C-3	R9	B-3	S7	A-5	S19	F-4	S31	F-5	S43	I-4
CR3	C-3	Q4	D-3	R10	D-3	S8	A-6	S20	G-4	S32	G-5	S44	C-2
CR4	D-3			R11	D-3	S9	C-2	S21	G-1	S33	H-1	S45	D-2
				R12	B-2	S10	C-4	S22	G-2	S34	H-2		
J1	E-4	R1	B-2			S11	D-4	S23	G-3	S35	H-3		
J2		R2	C-4			S12	C-5	S24	G-3	S36	H-3	U1	B-4
		R3	B-2	S1	A-2	S13		S25	C-3	S37	H-5		

Front Panel PCB Assy, DWG 17228

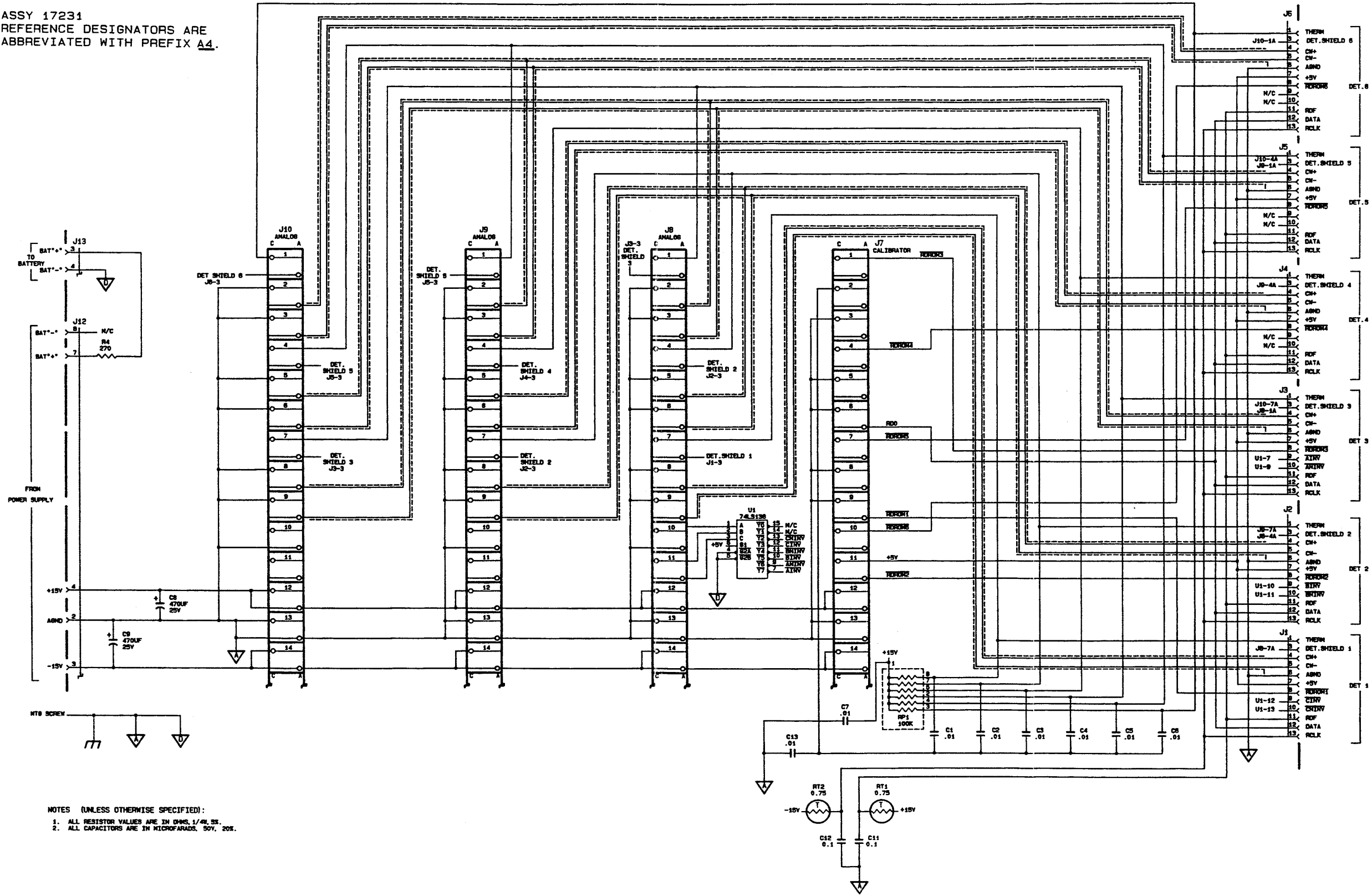


Front Panel, DWG 17229, Rev. A

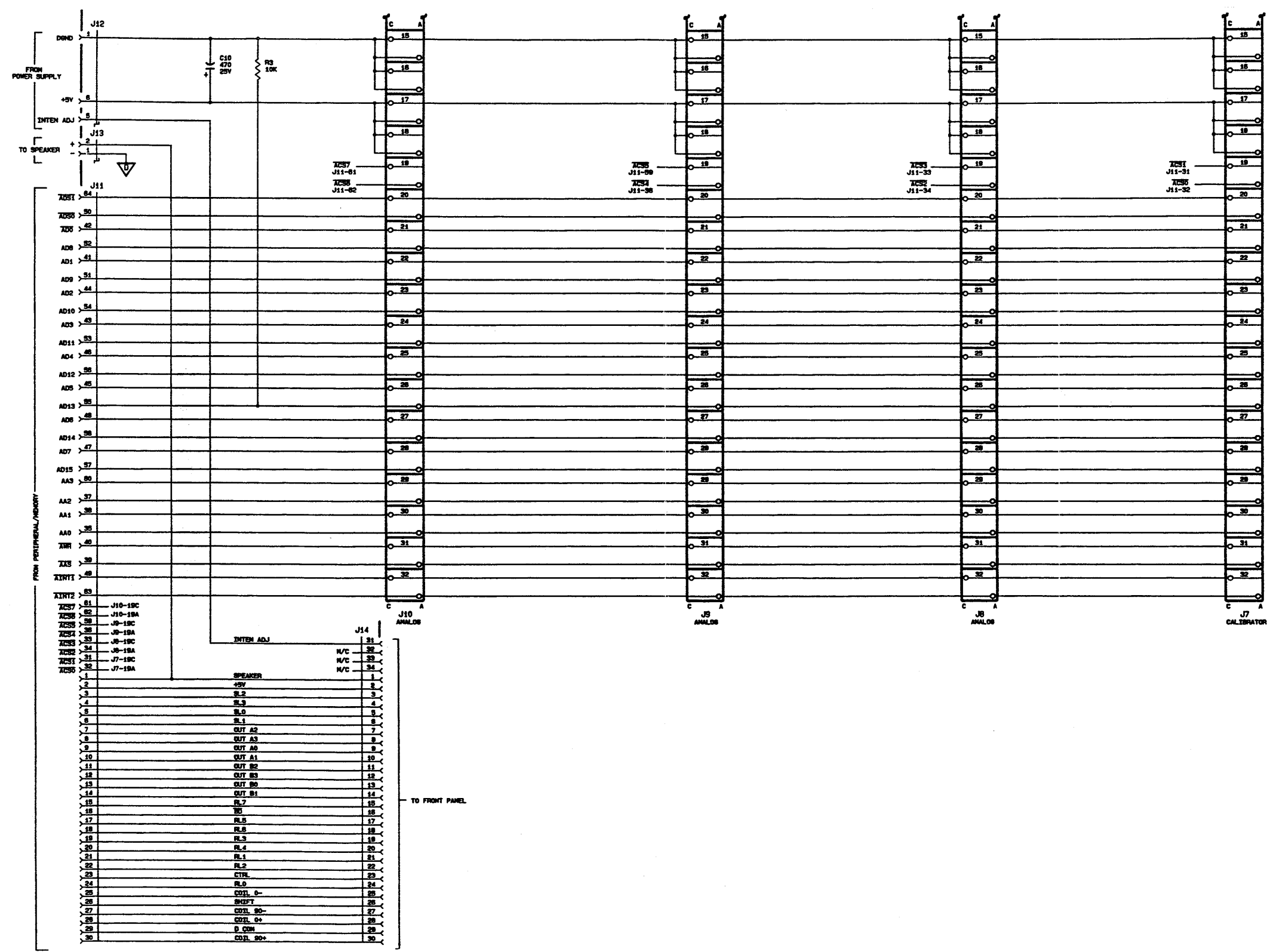


Analog Interconnect PCB Assy, DWG 17231

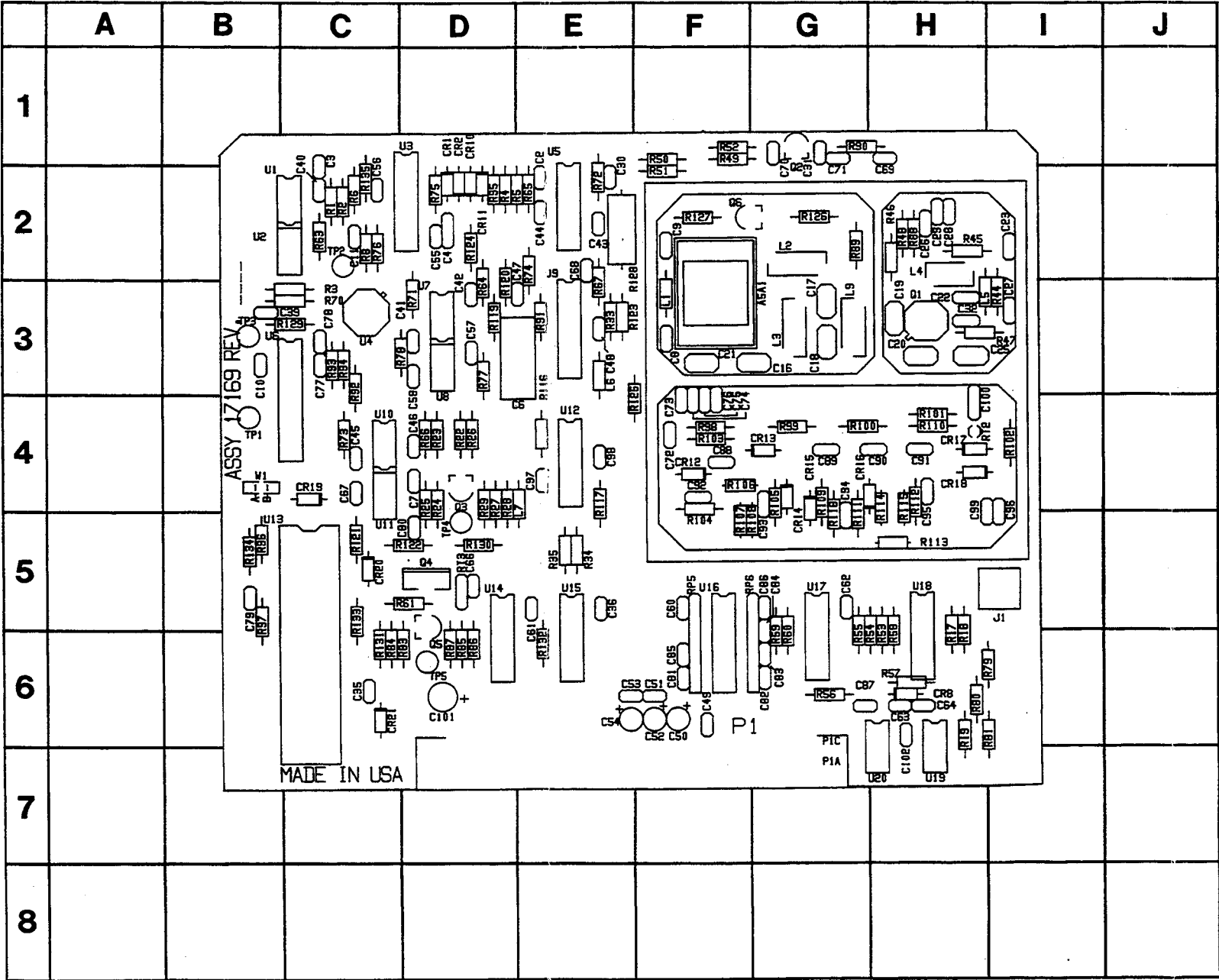
ASSY 17231
REFERENCE DESIGNATORS ARE
ABBREVIATED WITH PREFIX A4.



Analog Interconnect, DWG 17232, Rev. B (1 of 2)



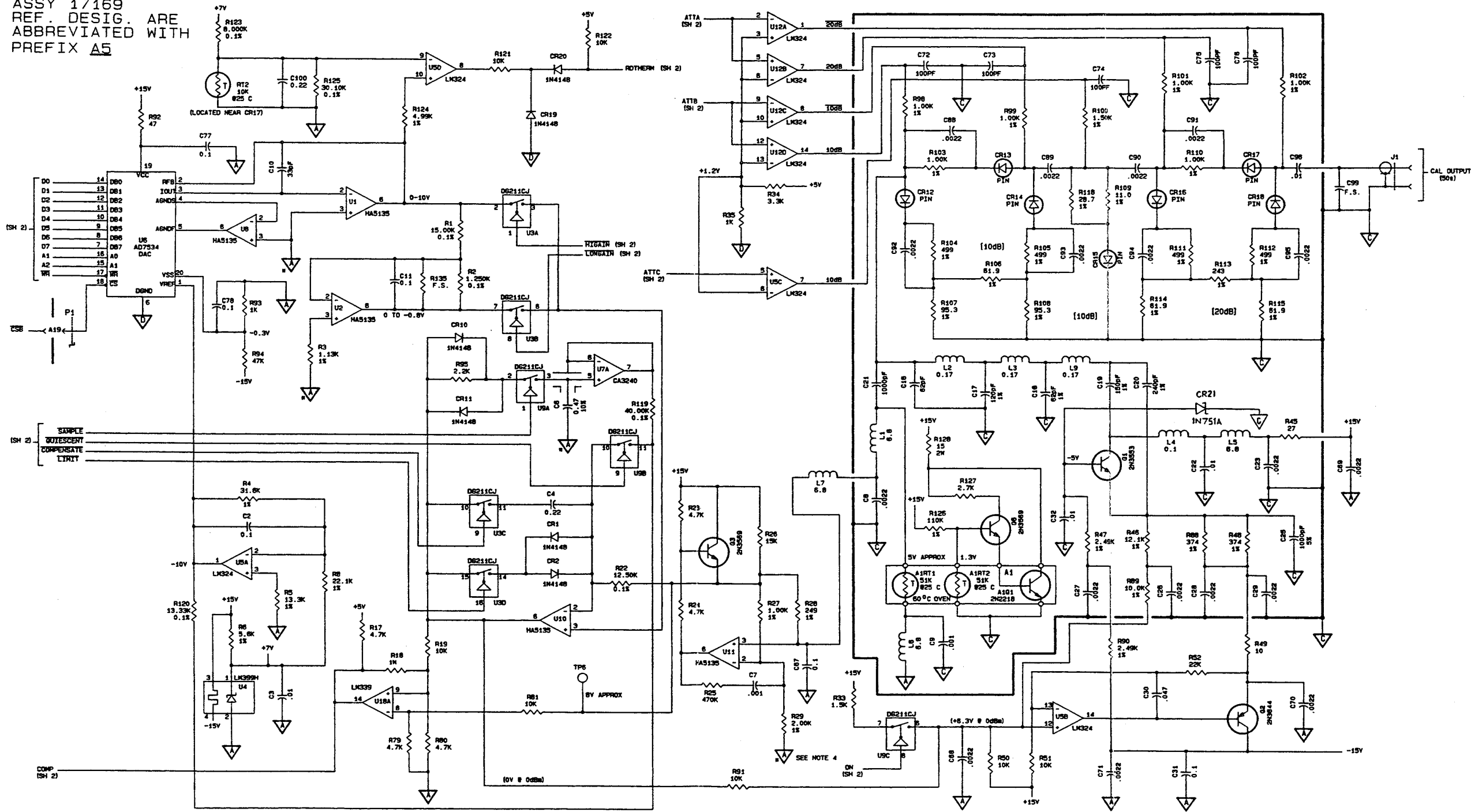
Analog Interconnect, DWG 17232, Rev. B (2 of 2)



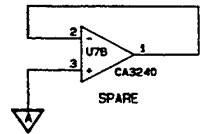
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A1	F-3	C47	E-3	C94	G-5	Q1	H-3	R37		R84	C-6	R131	C-6
C1		C48	E-3	C95	H-4	Q2	G-1	R38		R85	D-6	R132	E-6
C2	E-2	C49	F-6	C96	I-5	Q3	D-4	R39		R86	D-6	R133	C-5
C3	C-2	C50	F-6	C97	E-4	Q4	D-5	R40		R87	D-6	R134	B-5
C4	D-2	C51	F-6	C98	E-4	Q5	D-6	R41		R88	H-2	R135	C-2
C5		C52	F-6	C99	I-5	Q6	F-2	R42		R89	G-2		
C6	E-3	C53	E-6	C100	H-4			R43		R90	G-1		
C7	D-4	C54	E-6	C101	D-6			R44	I-3	R91	E-3		
C8	F-3	C55	D-2	C102	H-6	P1	G-7	R45	H-2	R92	C-4		
C9		C56	C-2					R46	H-2	R93	C-3	RP1	
C10	B-3	C57	D-3			R1	C-2	R47	I-3	R94	C-3	RP2	
C11	C-2	C58	D-3			R2	C-2	R48	H-2	R95	D-2	RP3	
C12		C59		CR1	D-2	R3	C-3	R49	F-1	R96	B-5	RP4	
C13		C60	F-5	CR2	D-2	R4	D-2	R50	F-1	R97	B-5	RP5	F-6
C14		C61	E-5	CR3		R5	E-2	R51	F-2	R98	F-4	RP6	G-6
C15		C62	G-5	CR4		R6	C-2	R52	F-1	R99	G-4		
C16	G-3	C63	H-6	CR5		R7		R53	H-6	R100	H-4		
C17	G-3	C64	H-6	CR6		R8	C-2	R54	H-6	R101	H-4	RT1	
C18	G-3	C65		CR7		R9		R55	G-6	R102	I-4	RT2	H-4
C19	H-3	C66	D-5	CR8	H-6	R10		R56	G-6	R103	F-4	RT3	D-5
C20	H-3	C67	C-4	CR9		R11		R57	H-6	R104	F-4		
C21	F-3	C68	E-2	CR10	D-2	R12		R58	H-6	R105	G-4	TP1	B-4
C22	H-3	C69	H-1	CR11	D-2	R13		R59	G-6	R106	F-4	TP2	C-2
C23	I-2	C70	G-1	CR12	F-4	R14		R60	G-6	R107	F-5	TP3	B-3
C24		C71	G-1	CR13	G-4	R15		R61	D-5	R108	G-5	TP4	D-5
C25	H-3	C72	F-4	CR14	G-4	R16		R62		R109	G-4	TP5	D-6
C26	H-2	C73	F-4	CR15	G-5	R17	H-6	R63	C-2	R110	H-4		
C27	I-3	C74	F-4	CR16	H-4	R18	H-6	R64	D-3	R111	G-5		
C28	H-2	C75	F-4	CR17	H-4	R19	H-6	R65	E-2	R112	H-4	U1	C-2
C29	H-2	C76	F-4	CR18	H-4	R20		R66	D-4	R113	H-5	U2	C-2
C30	E-2	C77	C-3	CR19	C-4	R21		R67	E-3	R114	H-4	U3	D-2
C31	G-1	C78	C-3	CR20	C-5	R22	D-4	R68		R115	H-4	U4	C-3
C32	H-3	C79	B-5	CR21	C-6	R23	D-4	R69		R116	E-4	U5	E-2
C33		C80	D-5			R24	D-4	R70	C-3	R117	E-4	U6	C-3
C34		C81				R25	D-4	R71	D-3	R118	G-5	U7	D-3
C35	C-6	C82	G-6	J1	I-5	R26	D-4	R72	E-2	R119	D-3	U8	D-3
C36	E-5	C83	G-6			R27	D-4	R73	C-4	R120	D-3	U9	E-3
C37		C84	G-6			R28	D-4	R74	E-2	R121	C-5	U10	C-4
C38		C85		L1	F-3	R29	D-4	R75	D-2	R122	D-5	U11	C-4
C39	B-2	C86	G-5	L2	G-2	R30		R76	C-2	R123	E-3	U12	E-4
C40	C-2	C87	G-6	L3	G-3	R31		R77	D-3	R124	D-2	U13	C-5
C41	D-3	C88	F-4	L4	H-3	R32		R78	D-3	R125	F-4	U14	D-5
C42	D-3	C89	G-4	L5	H-3	R33	E-3	R79	I-6	R126	G-2	U15	E-5
C43	E-2	C90	H-4	L6	E-3	R34	E-5	R80	H-6	R127	F-2	U16	F-5
C44	E-2	C91	H-4	L7	D-4	R35	E-5	R81	I-6	R128	E-2	U17	G-5
C45	C-4	C92	F-4	L8		R36		R82		R129	C-3	U18	H-5
C46	D-4	C93	G-4	L9	G-3			R83	D-6	R130	D-5	U19	H-7

Calibrator PCB Assy, DWG 17169

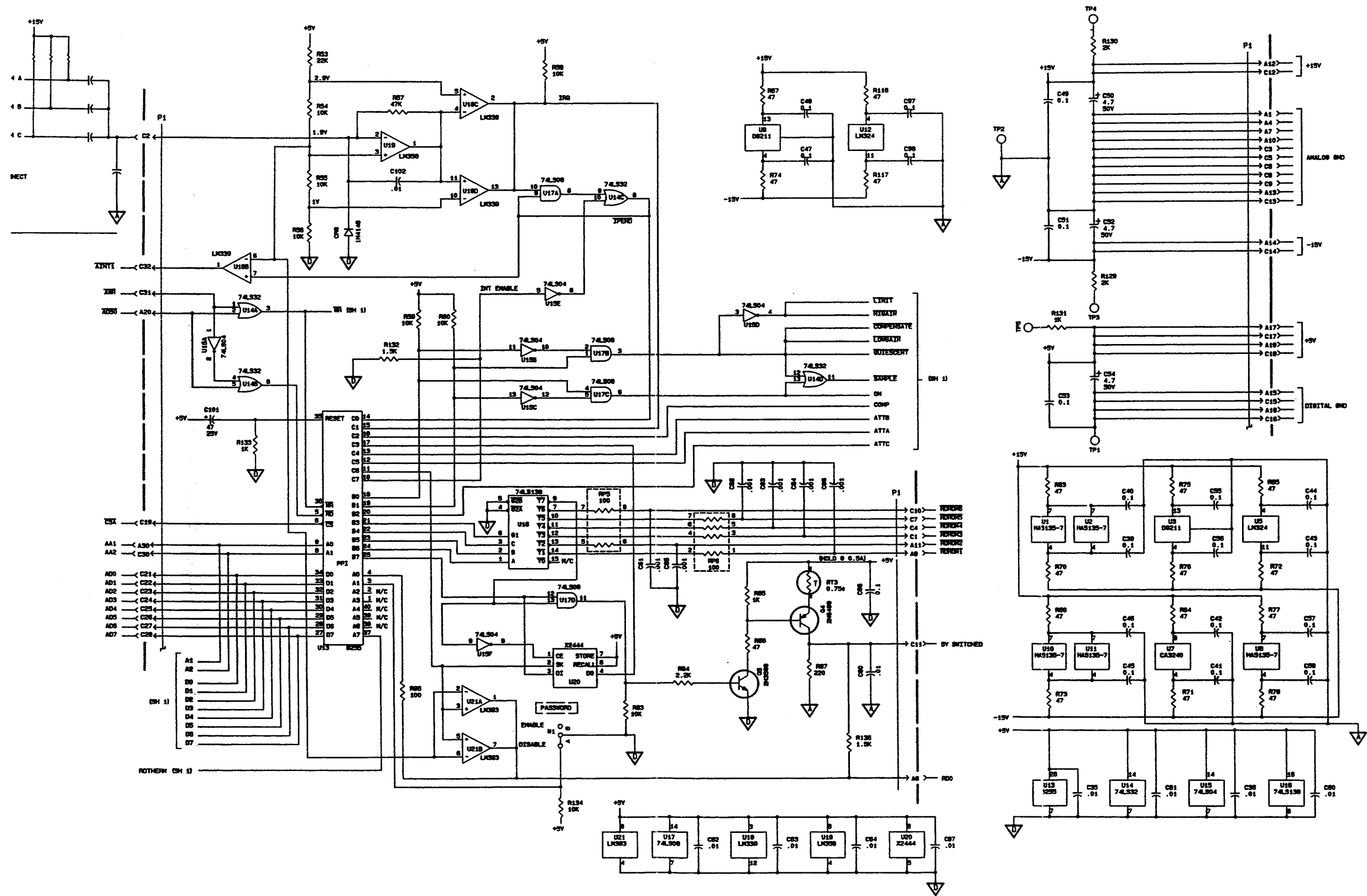
ASSY 17169
REF. DESIG. ARE
ABBREVIATED WITH
PREFIX A5



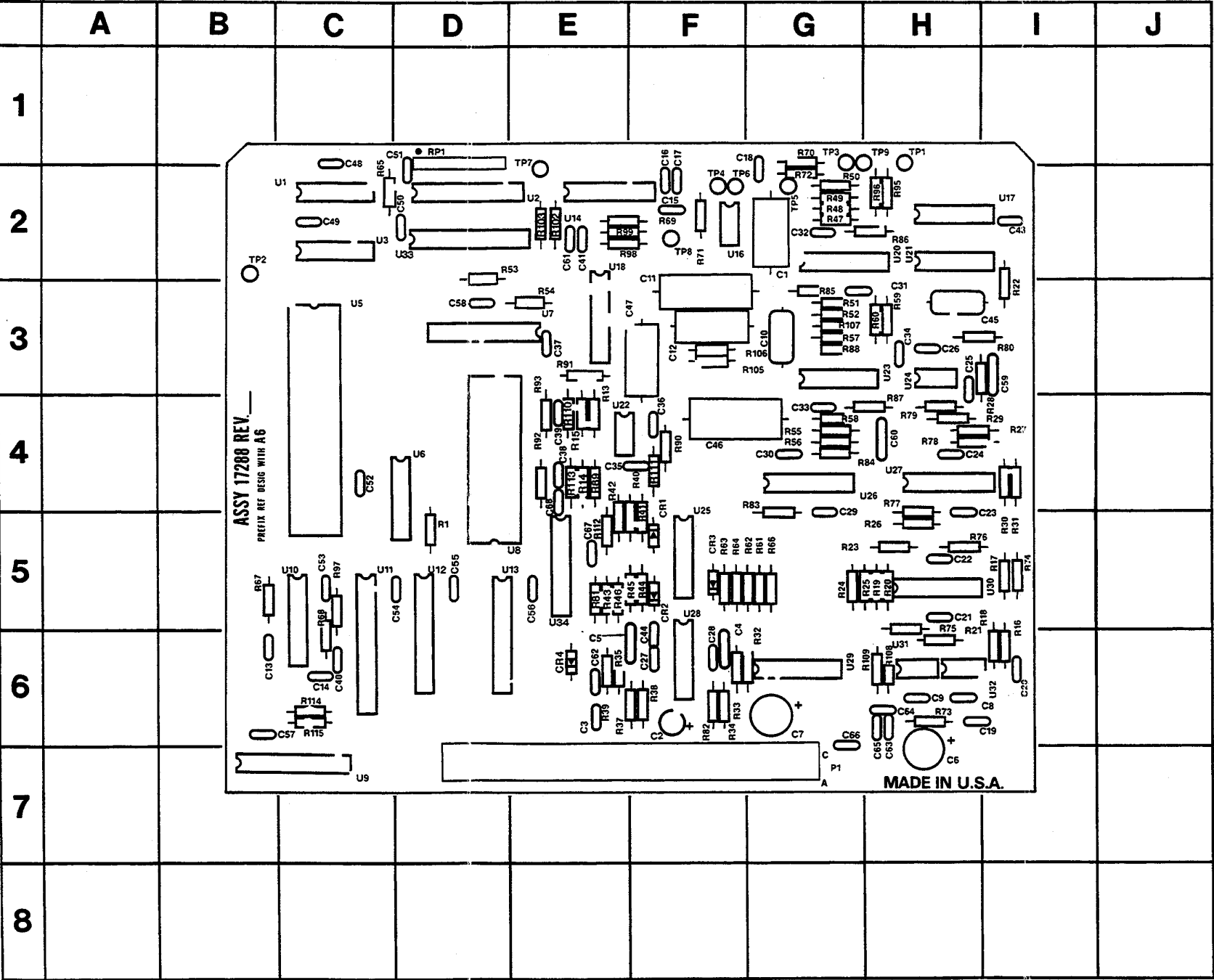
- NOTES: (UNLESS OTHERWISE SPECIFIED)
1. ALL RESISTOR VALUES ARE IN OHMS, SX, 1/4W.
 2. ALL CAPACITOR VALUES ARE IN MICROFARADS, 50V, 20%.
 3. ALL INDUCTOR VALUES ARE IN MICROHENRYS.
 4. ALL GNDs LABELED ARE TIED TO AT THIS POINT.
 5. ALL REFERENCE DESIGNATORS MARKED WITH AN "F.S." ARE FACTORY SELECTED.
 6. PIN DESIGNATES PIN DIODE.



Calibrator, DWG 17170, Rev. D (1 of 2)



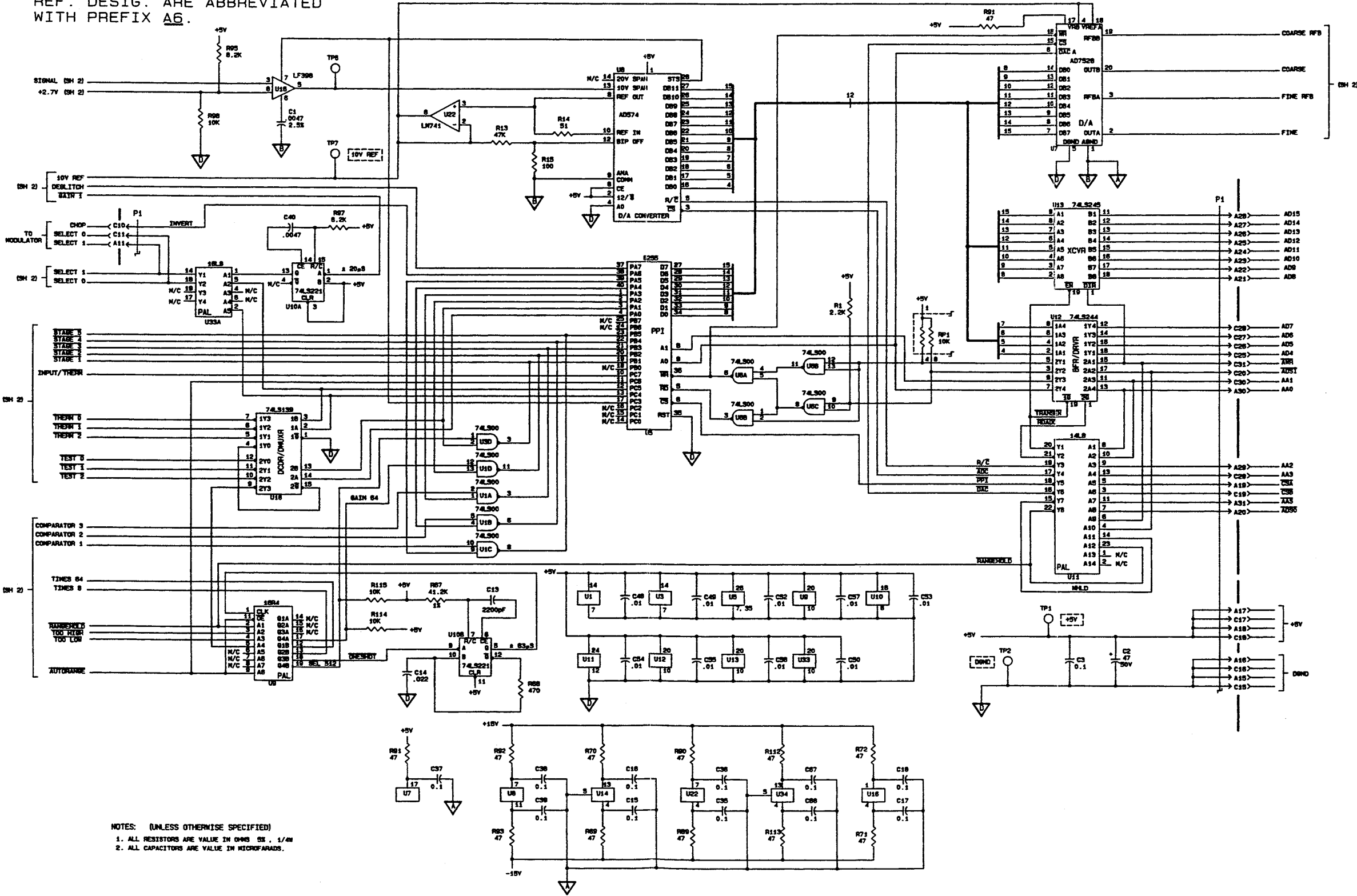
Calibrator, DWG 17170, Rev. D (2 of 2)



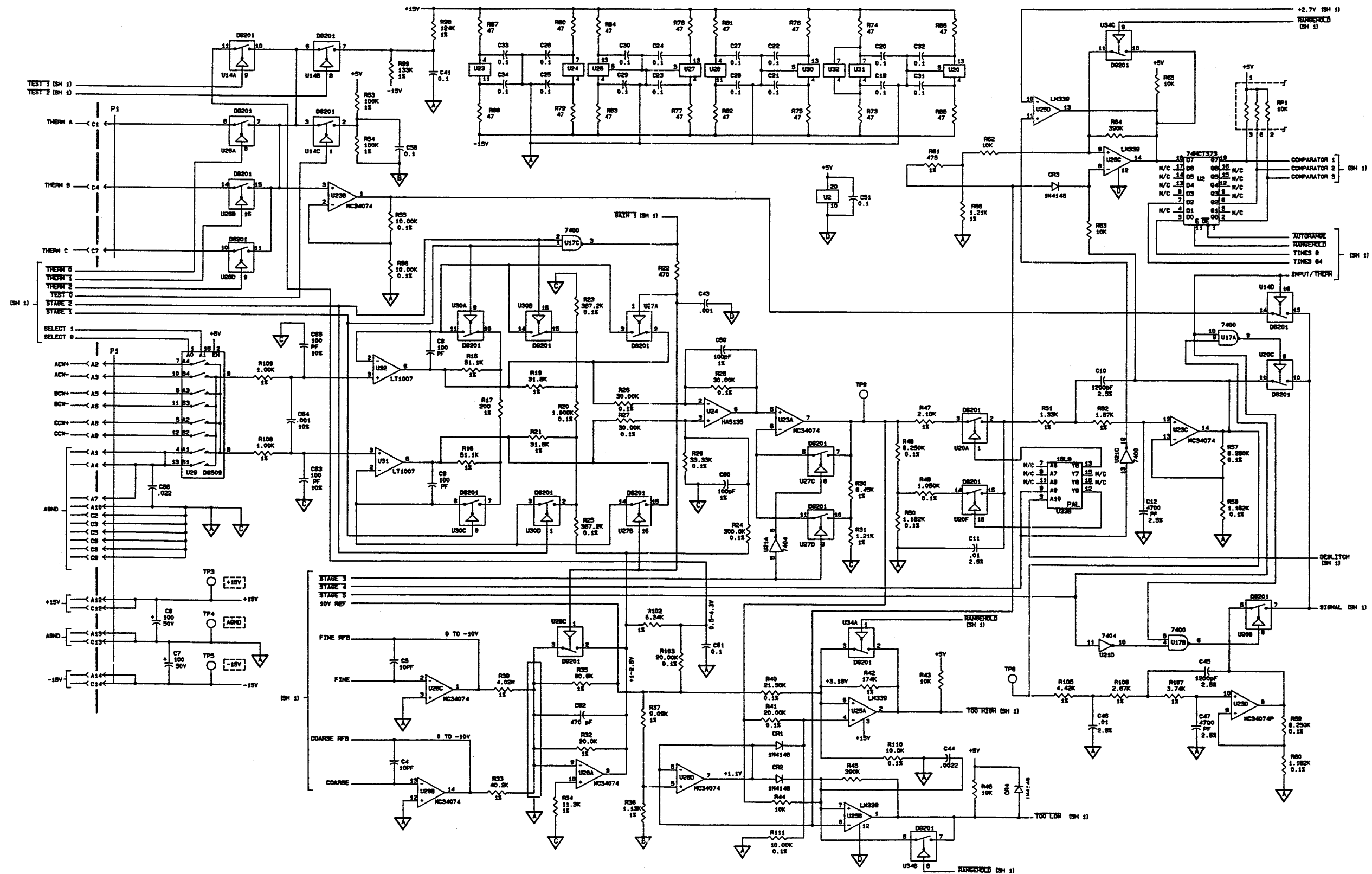
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C1	G-2	C48	C-2	R17	I-5	R64	F-5	R111	F-4	U27	H-4
C2	F-6	C49	C-2	R18	I-6	R65	D-2	R112	E-5	U28	F-6
C3	E-6	C50	D-2	R19	H-5	R66	G-5	R113	E-4	U29	G-6
C4	F-6	C51	D-2	R20	H-5	R67	C-5	R114	C-6	U30	H-5
C5	F-6	C52	C-4	R21	H-6	R68	C-6	R115	C-6	U31	H-6
C6	H-7	C53	C-5	R22	I-3	R69	F-2			U32	H-6
C7	G-6	C54	D-5	R23	H-5	R70	G-2			U33	D-2
C8	H-6	C55	D-5	R24	G-5	R71	F-2	RP1	D-2	U34	E-5
C9	H-6	C56	E-5	R25	H-5	R72	G-2				
C10	G-3	C57	B-6	R26	H-5	R73	H-6				
C11	F-3	C58	D-3	R27	I-4	R74	I-5	TP1	H-2		
C12	F-3	C59	I-3	R28	I-3	R75	H-6	TP2	B-2		
C13	C-6	C60	H-4	R29	H-4	R76	H-5	TP3	G-2		
C14	C-6	C61	E-2	R30	I-4	R77	H-5	TP4	F-2		
C15	F-2	C62	E-6	R31	I-4	R78	I-4	TP5	G-2		
C16	F-2	C63	H-6	R32	G-6	R79	H-4	TP6	F-2		
C17	F-2	C64	H-6	R33	F-6	R80	I-3	TP7	E-2		
C18	G-2	C65	H-6	R34	F-6	R81	E-5	TP8	F-2		
C19	I-6	C66	G-7	R35	E-6	R82	F-6	TP9	H-2		
C20	I-6	C67	E-5	R36		R83	G-5				
C21	H-5	C68	E-4	R37	F-6	R84	G-4				
C22	H-5			R38	F-6	R85	G-3	U1	C-2		
C23	H-5			R39	E-6	R86	H-2	U2	D-2		
C24	H-4	CR1	F-5	R40	F-5	R87	H-4	U3	C-2		
C25	H-3	CR2	F-5	R41	F-5	R88	G-3	U4			
C26	H-3	CR3	F-5	R42	E-5	R89	E-4	U5	C-3		
C27	F-6	CR4	E-6	R43	E-5	R90	F-4	U6	D-4		
C28	F-6			R44	F-5	R91	E-3	U7	E-3		
C29	G-5	P1	G-7	R45	F-5	R92	E-4	U8	D-5		
C30	G-4			R46	E-5	R93	E-4	U9	C-7		
C31	H-3			R47	G-2	R94		U10	C-5		
C32	G-2	R1	D-5	R48	G-2	R95	H-2	U11	C-5		
C33	G-4	R2		R49	G-2	R96	H-2	U12	D-5		
C34	H-3	R3		R50	G-2	R97	C-5	U13	E-5		
C35	F-4	R4		R51	G-3	R98	F-2	U14	E-2		
C36	F-4	R5		R52	G-3	R99	F-2	U15			
C37	E-3	R6		R53	D-3	R100		U16	F-2		
C38	E-4	R7		R54	E-3	R101		U17	H-2		
C39	E-4	R8		R55	G-4	R102	E-2	U18	E-3		
C40	C-6	R9		R56	G-4	R103	E-2	U19			
C41	E-2	R10		R57	G-3	R104		U20	G-2		
C42		R11		R58	G-4	R105	F-3	U21	H-2		
C43	I-2	R12		R59	H-3	R106	F-3	U22	E-4		
C44	F-6	R13	E-4	R60	H-3	R107	G-3	U23	H-3		
C45	H-3	R14	E-4	R61	G-5	R108	H-6	U24	H-3		
C46	F-4	R15	E-4	R62	G-5	R109	H-6	U25	F-5		
C47	F-3	R16	I-6	R63	F-5	R110	E-4	U26	G-4		

Analog PCB Assy, DWG 17288

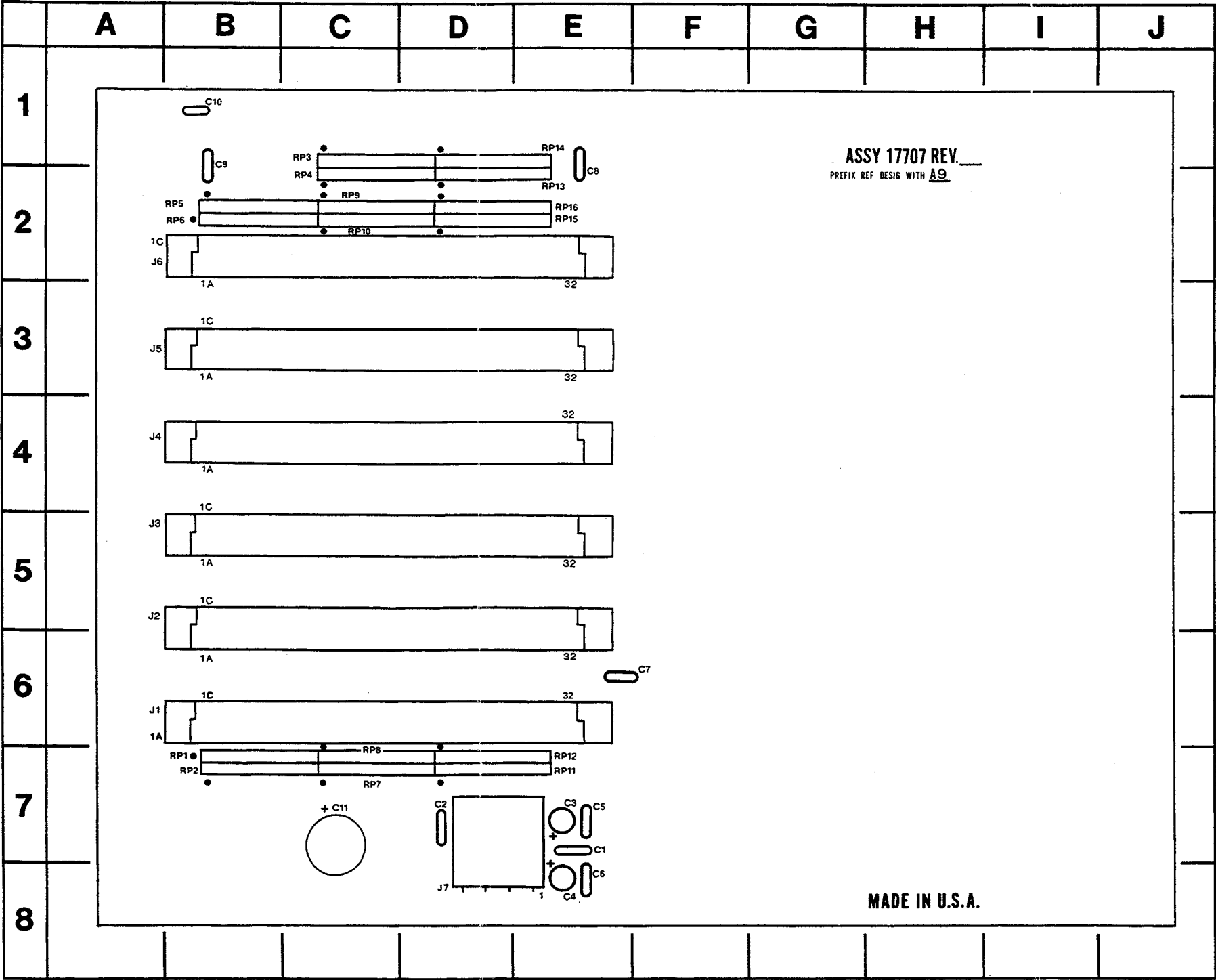
ASSY 17288
REF. DESIG. ARE ABBREVIATED
WITH PREFIX A6.



8003 Precision Scalar Analyzer



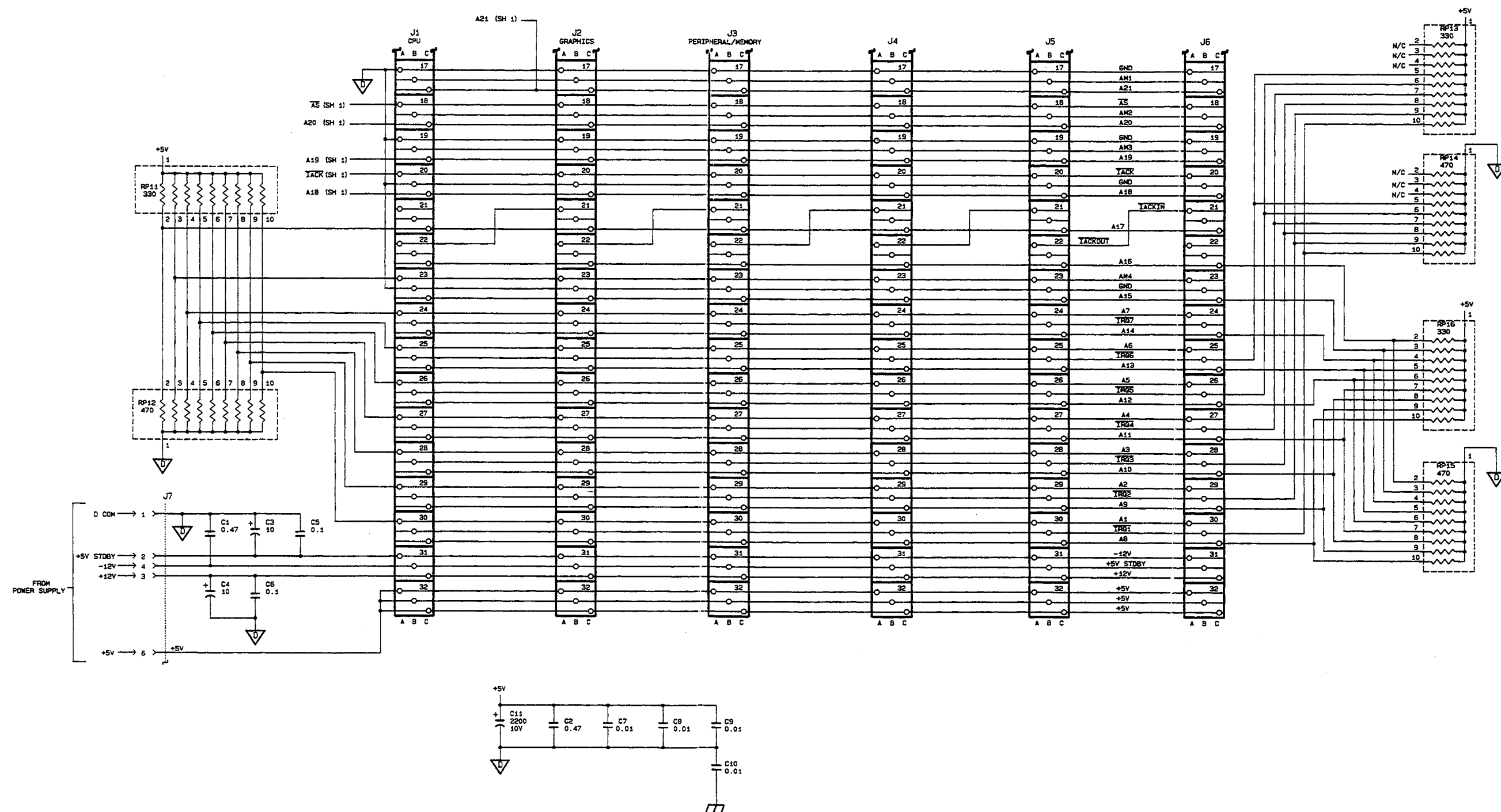
Analog, DWG 17289, Rev. E (2 of 2)



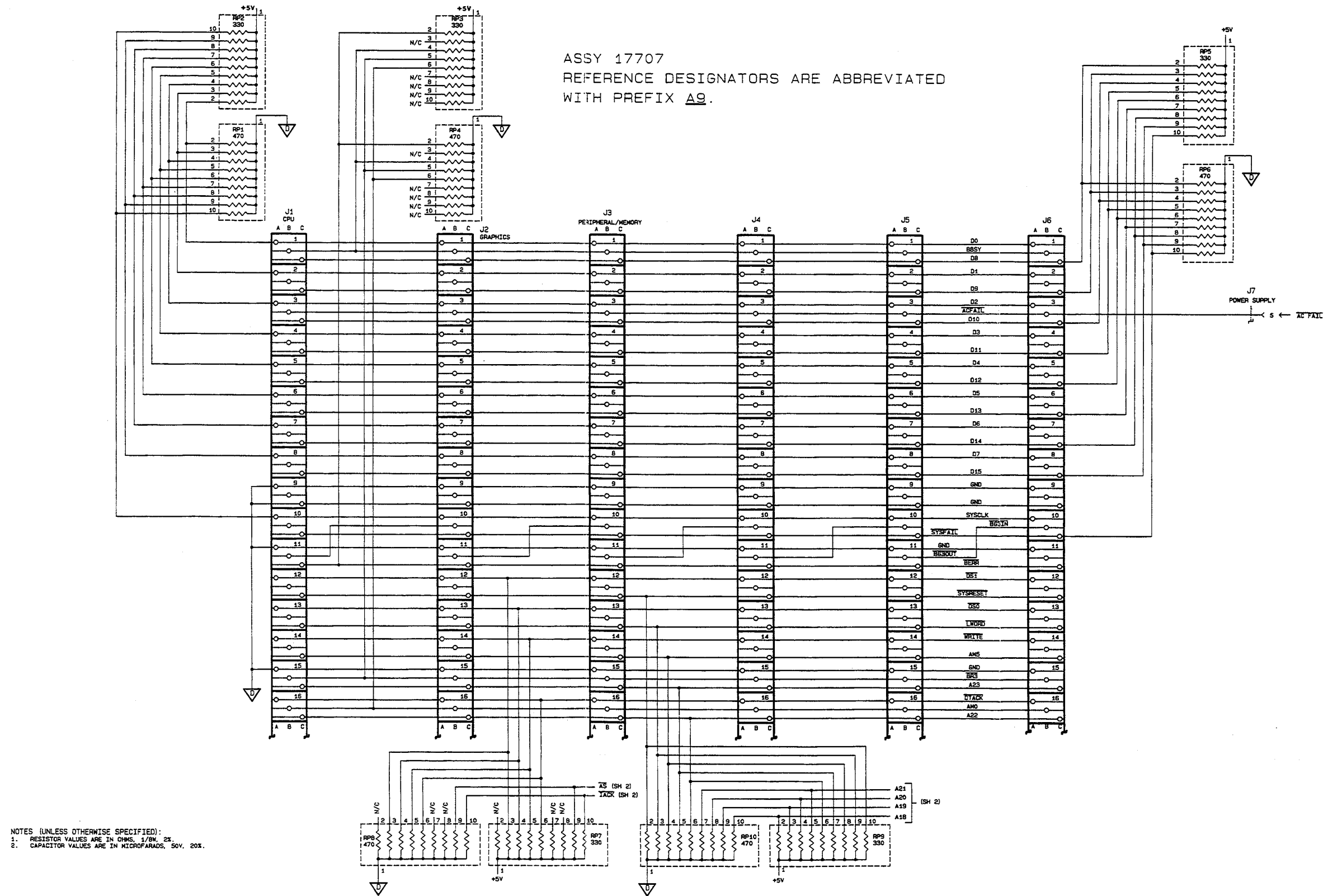
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C2	D-7
C3	E-7
C4	E-8
C5	E-7
C6	E-8
C7	E-6
C8	E-2
C9	B-2
C10	B-1
C11	C-7
J1	B-6
J2	B-5
J3	B-5
J4	B-4
J5	B-3
J6	B-2
J7	D-8
RP1	B-7
RP2	B-7
RP3	C-2
RP4	C-2
RP5	B-2
RP6	B-2
RP7	C-7
RP8	C-7
RP9	C-2
RP10	C-2
RP11	E-7
RP12	E-7
RP13	E-2
RP14	E-2

Digital Interconnect PCB Assy, DWG 17707

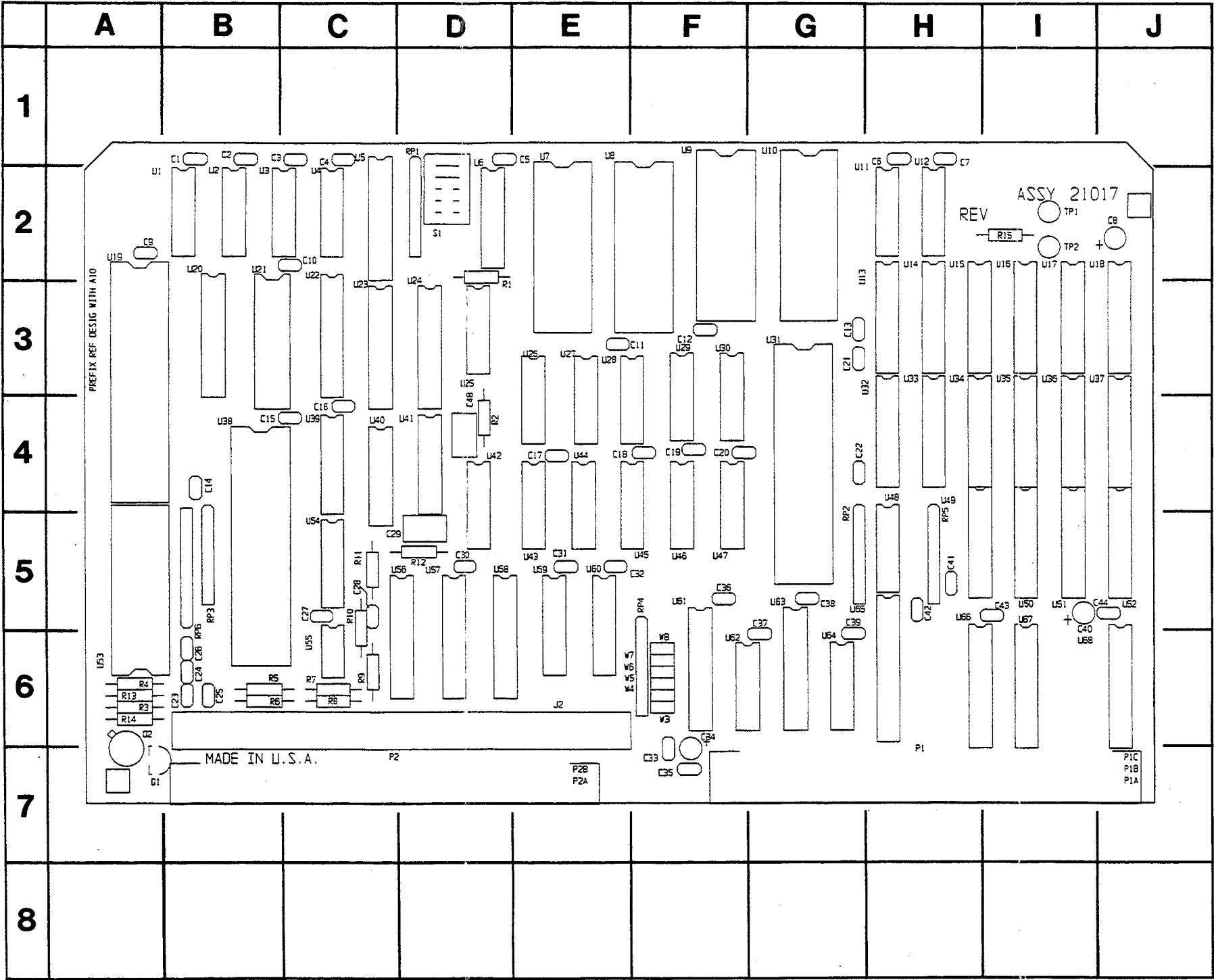
8003 Precision Scalar Analyzer



Digital Interconnect, DWG 17708, Rev. A (1 of 2)



Digital Interconnect, DWG 17708, Rev. A (2 of 2)

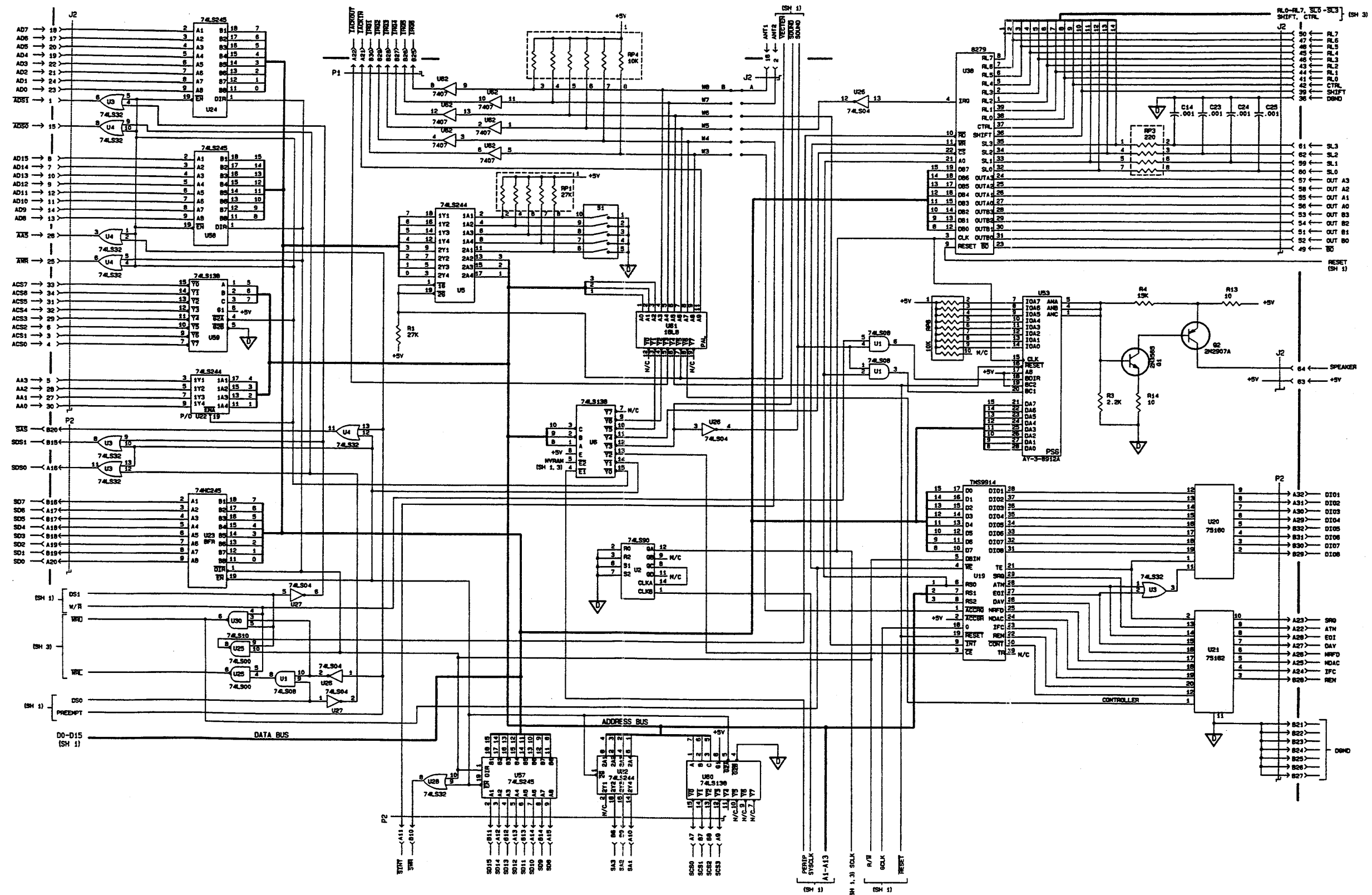


CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC
C1	B-1	C48	D-4	U1	B-2	U48	H-5
C2	B-1			U2	B-2	U49	H-5
C3	C-1			U3	C-2	U50	I-5
C4	C-1			U4	C-2	U51	I-5
C5	D-1	J1		U5	C-2	U52	J-5
C6	H-1	J2	E-6	U6	D-2	U53	A-5
C7	H-1			U7	E-2	U54	C-5
C8	J-2			U8	F-2	U55	C-6
C9	A-2	P1	H-7	U9	F-2	U56	D-5
C10	C-2	P2	C-7	U10	G-2	U57	D-5
C11	E-3			U11	H-2	U58	D-5
C12	F-3			U12	H-2	U59	E-5
C13	G-3	Q1	A-7	U13	H-3	U60	E-5
C14	B-4	Q2	A-6	U14	H-3	U61	F-6
C15	C-4			U15	H-3	U62	F-6
C16	C-4			U16	I-3	U63	G-6
C17	E-4	R1	D-3	U17	I-3	U64	G-6
C18	F-4	R2	D-4	U18	J-3	U65	H-6
C19	F-4	R3	A-6	U19	A-3	U66	I-6
C20	F-4	R4	A-6	U20	B-3	U67	I-6
C21	G-3	R5	B-6	U21	B-3	U68	J-6
C22	G-4	R6	B-6	U22	C-3		
C23	B-6	R7	C-6	U23	C-3		
C24	B-6	R8	C-6	U24	D-3	W1	F-6
C25	B-6	R9	C-6	U25	D-3	W2	F-6
C26	B-6	R10	C-6	U26	E-3	W3	F-6
C27	C-5	R11	C-6	U27	E-3	W4	F-6
C28	C-5	R12	D-5	U28	F-3	W5	F-6
C29	D-5	R13	A-6	U29	F-3	W6	F-6
C30	D-5	R14	A-6	U30	F-3	W7	F-6
C31	E-5	R15	I-2	U31	G-3	W8	F-6
C32	E-5			U32	H-4		
C33	F-7			U33	H-4		
C34	F-7	RP1	D-2	U34	I-4		
C35	F-7	RP2	G-5	U35	I-4		
C36	F-5	RP3	B-5	U36	I-4		
C37	G-6	RP4	F-6	U37	J-4		
C38	G-5	RP5	H-5	U38	B-4		
C39	G-6	RP6	B-5	U39	C-4		
C40	I-5			U40	C-4		
C41	H-5			U41	D-4		
C42	H-5	S1	D-2	U42	D-4		
C43	I-5			U43	E-4		
C44	J-5			U44	E-4		
C45		TP1	I-2	U45	F-4		
C46		TP2	I-2	U46	F-4		
C47				U47	F-4		

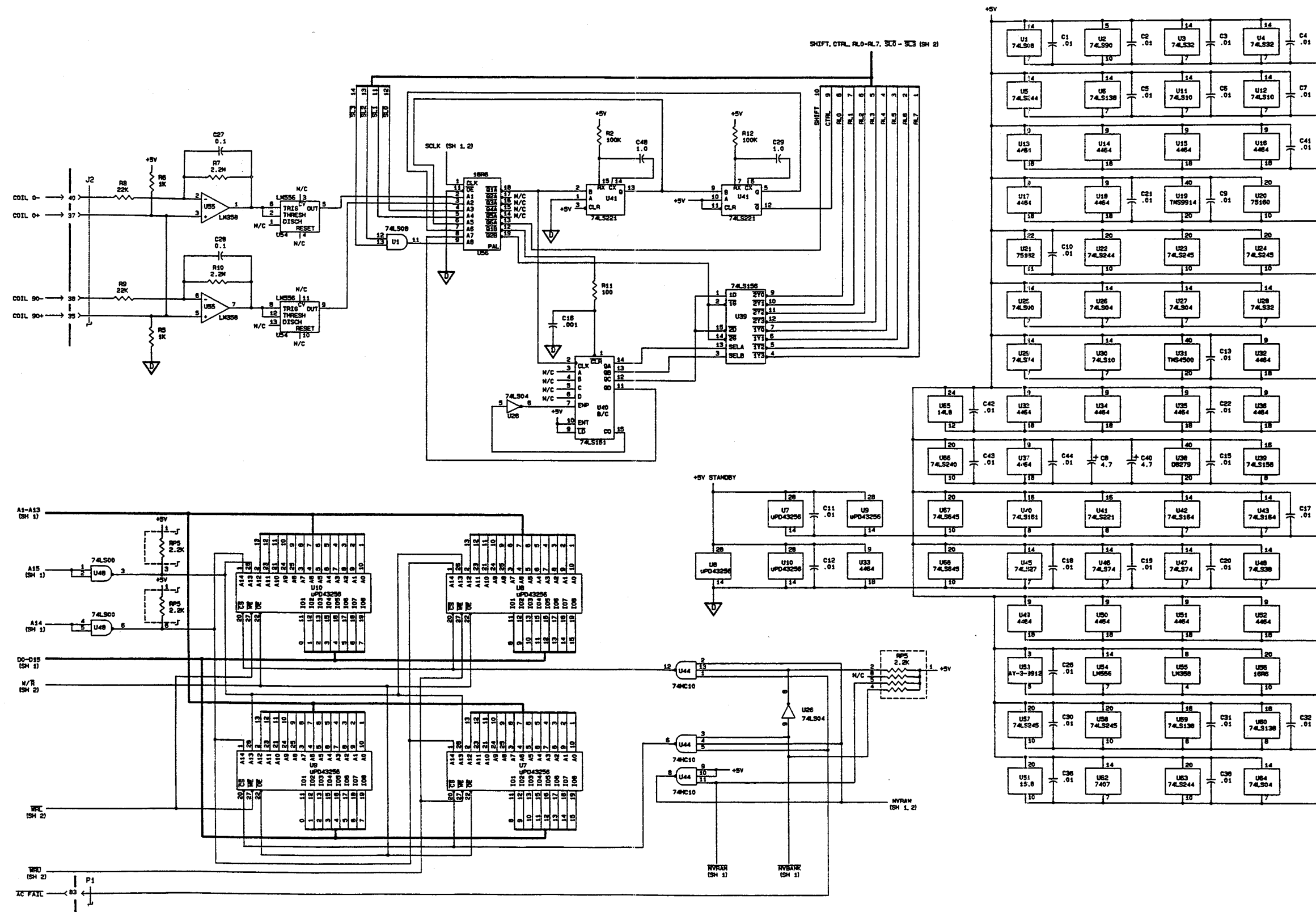
Peripheral/Memory PCB Assy, DWG 21017



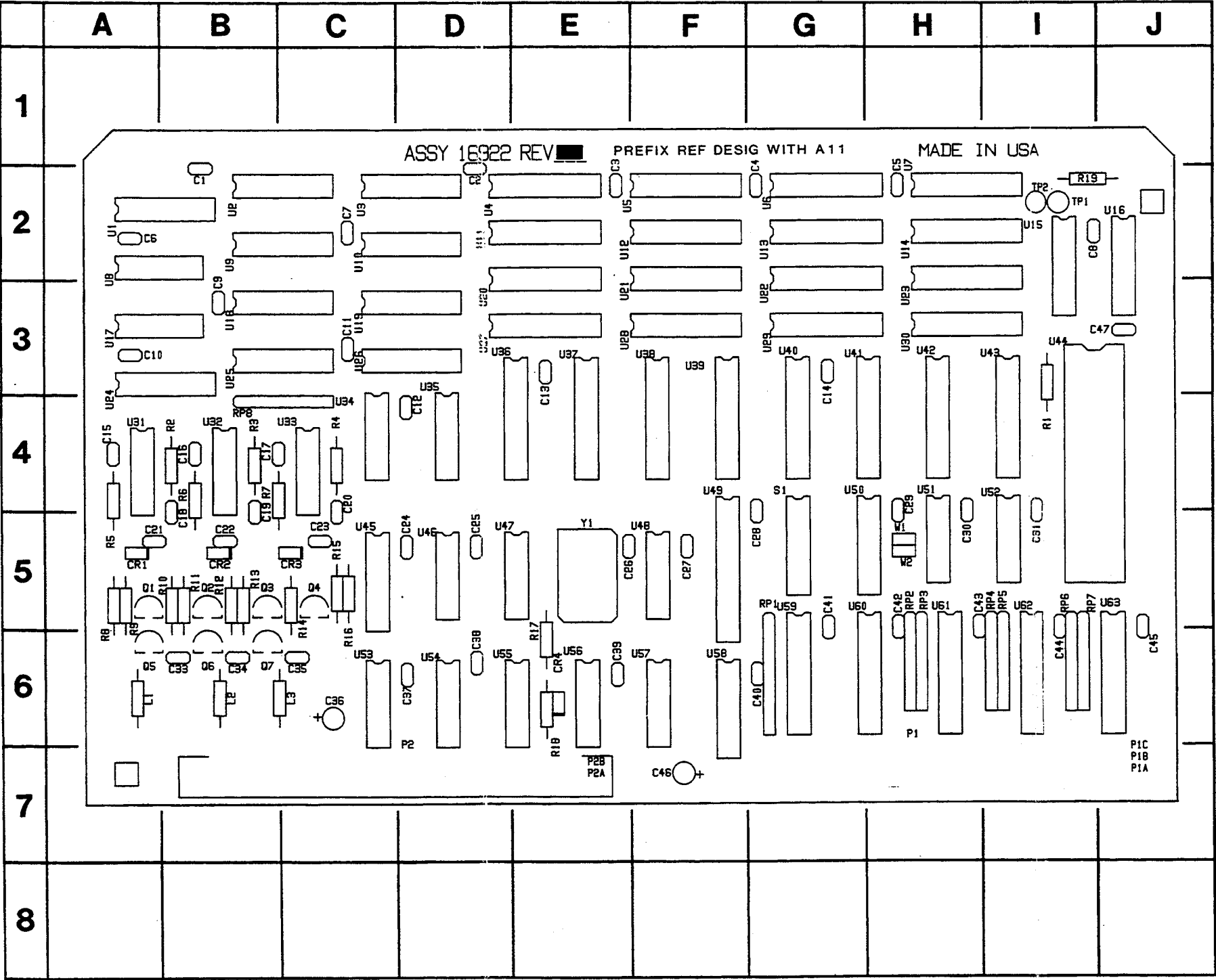
8003 Precision Scalar Analyzer



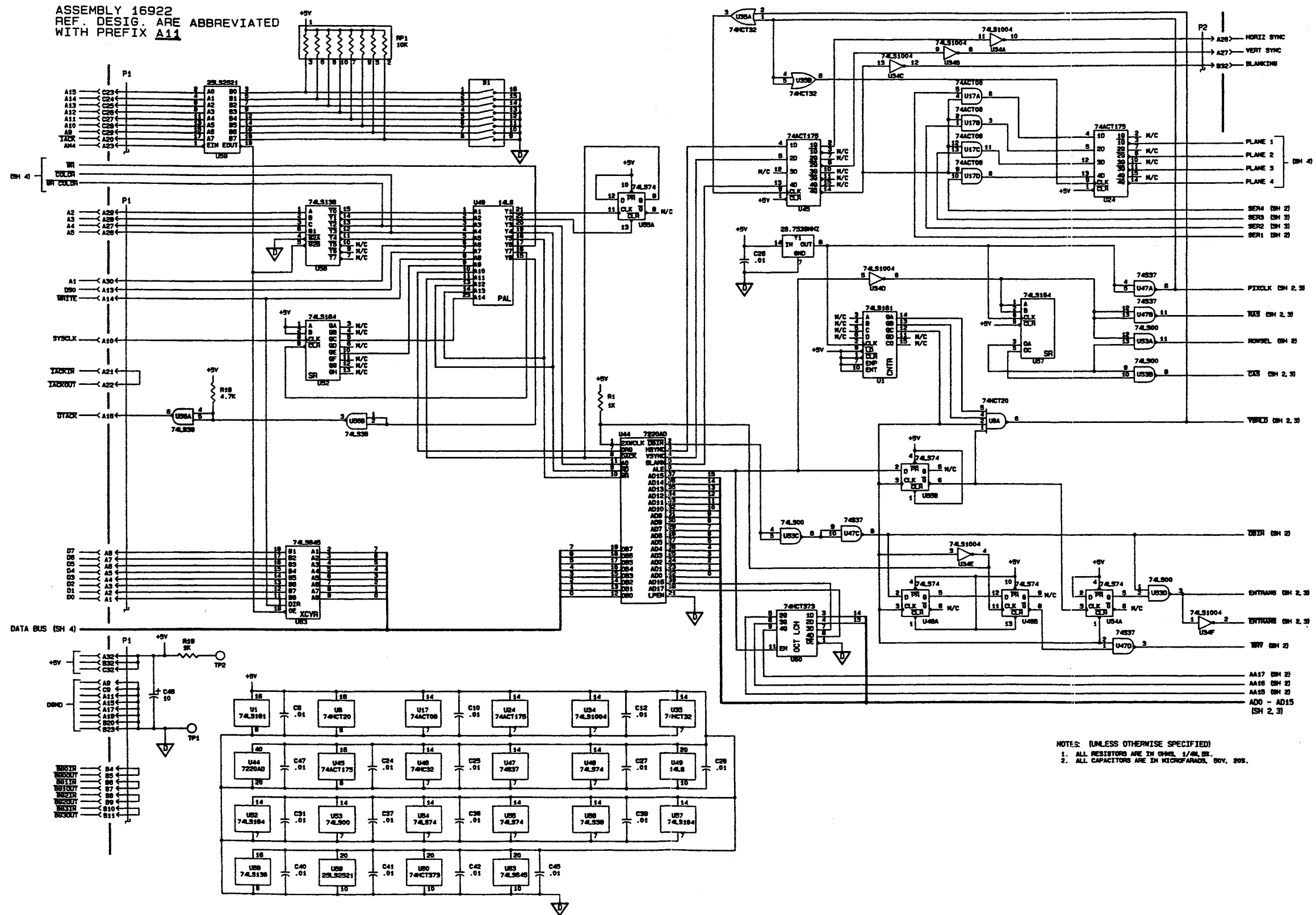
Peripheral/Memory, DWG 21018, Rev. A (2 of 3)



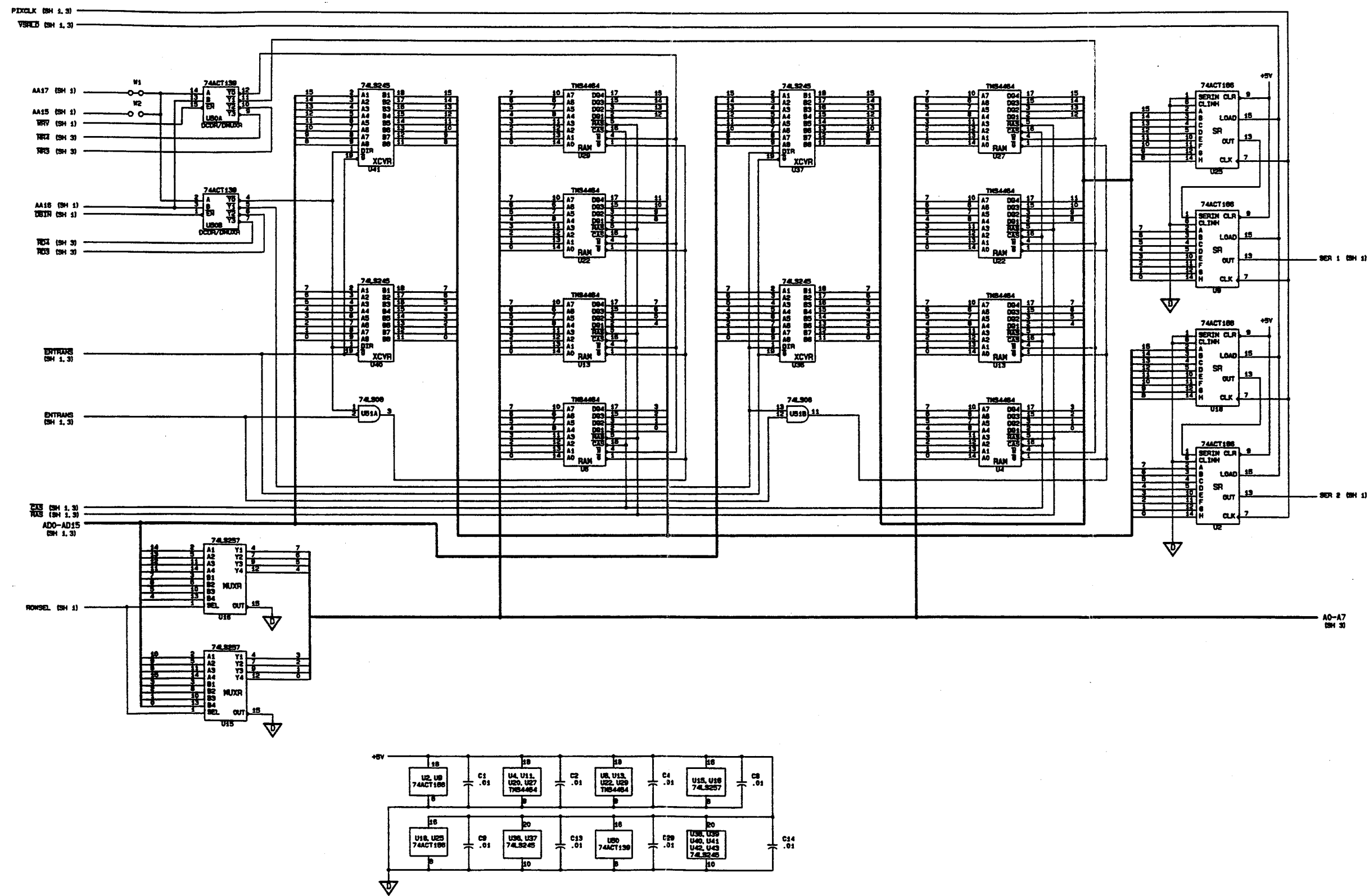
Peripheral/Memory, DWG 21018, Rev. A (3 of 3)



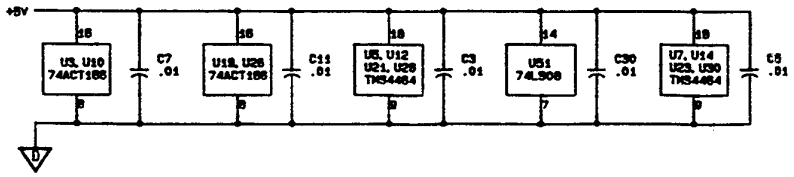
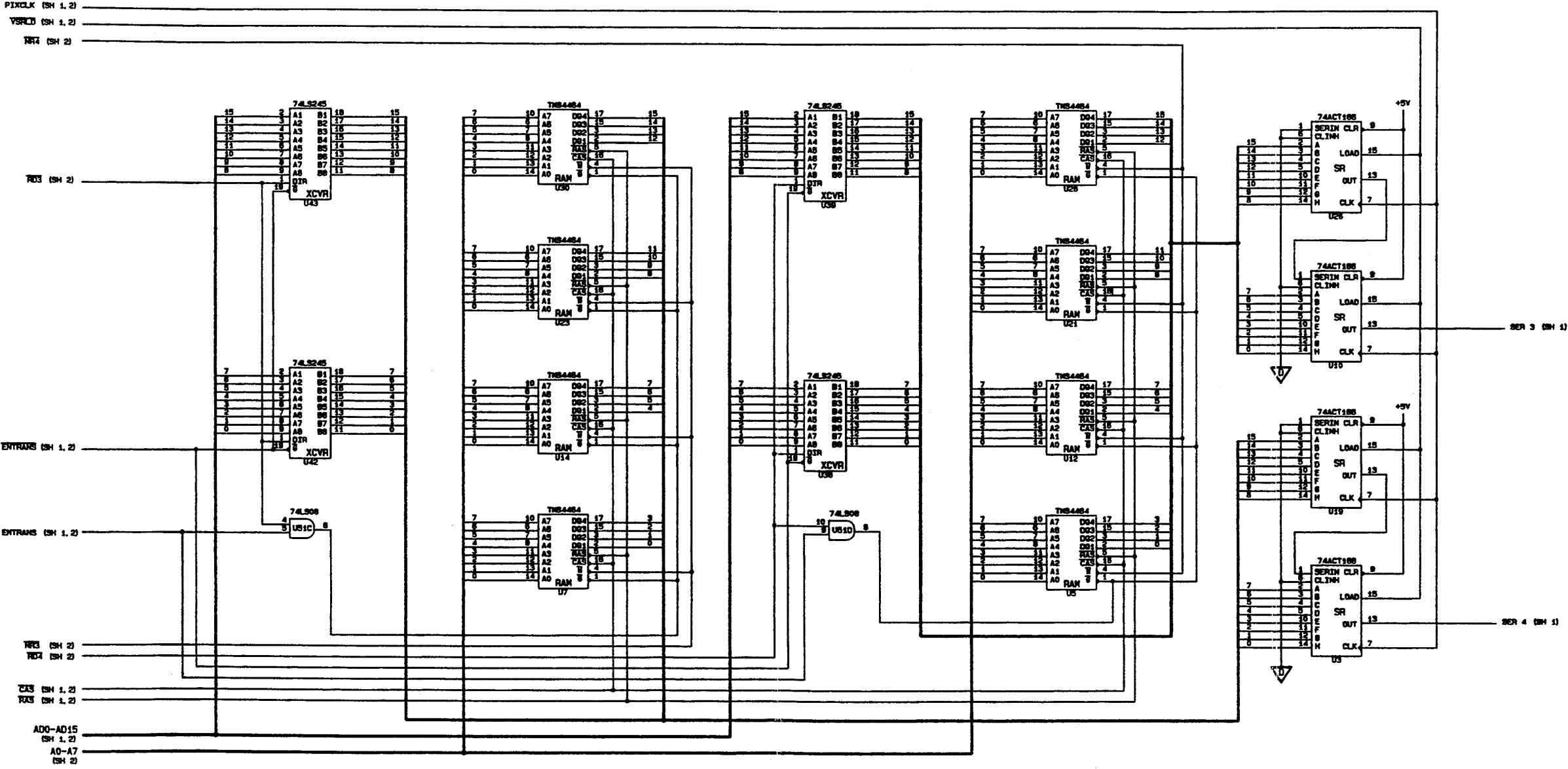
Graphics PCB Assy, DWG 16922

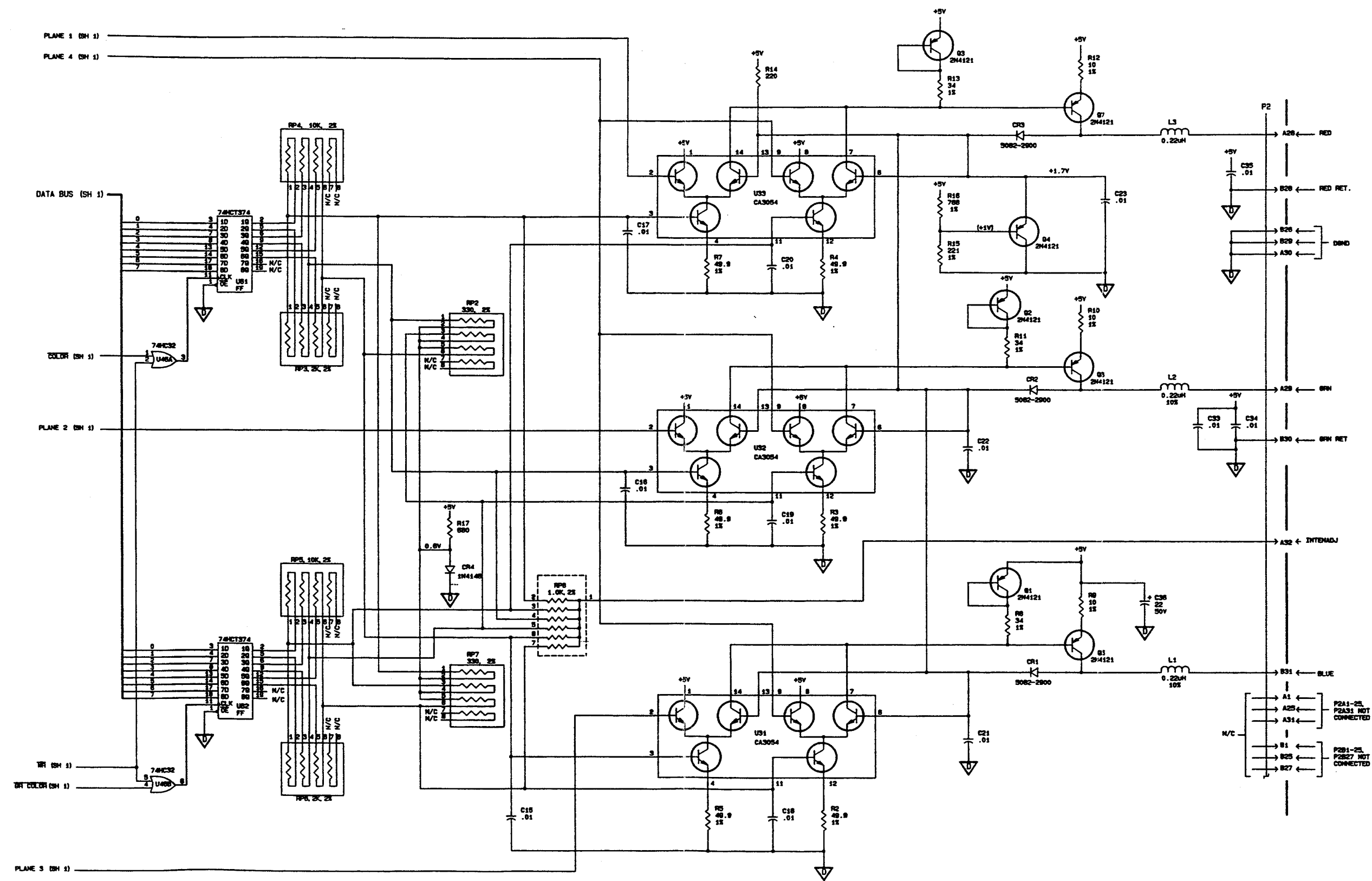


Graphics, DWG 16923, Rev. J (1 of 4)

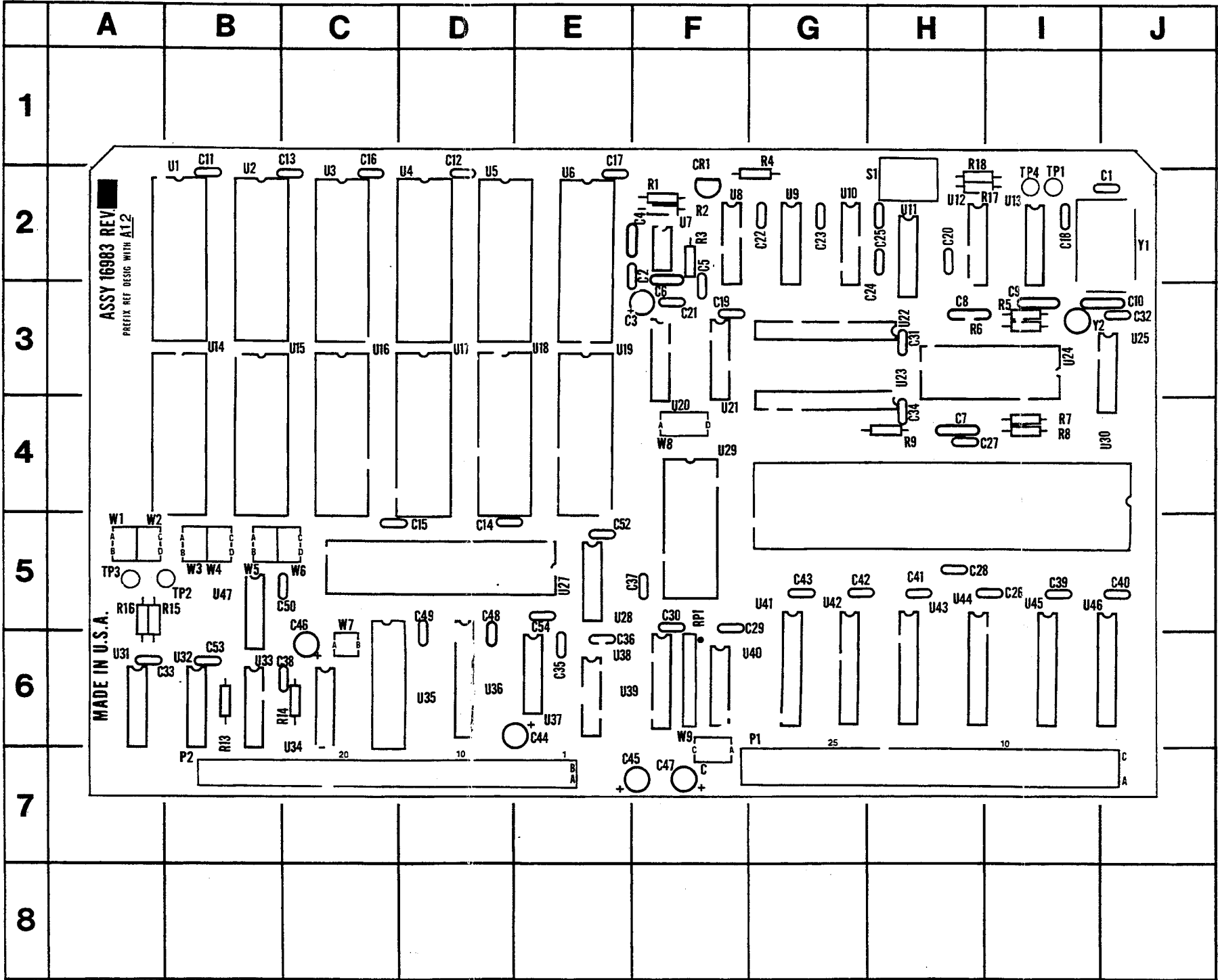


Graphics, DWG 16923, Rev. J (2 of 4)





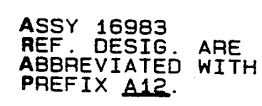
Graphics, DWG 16923, Rev. J (4 of 4)

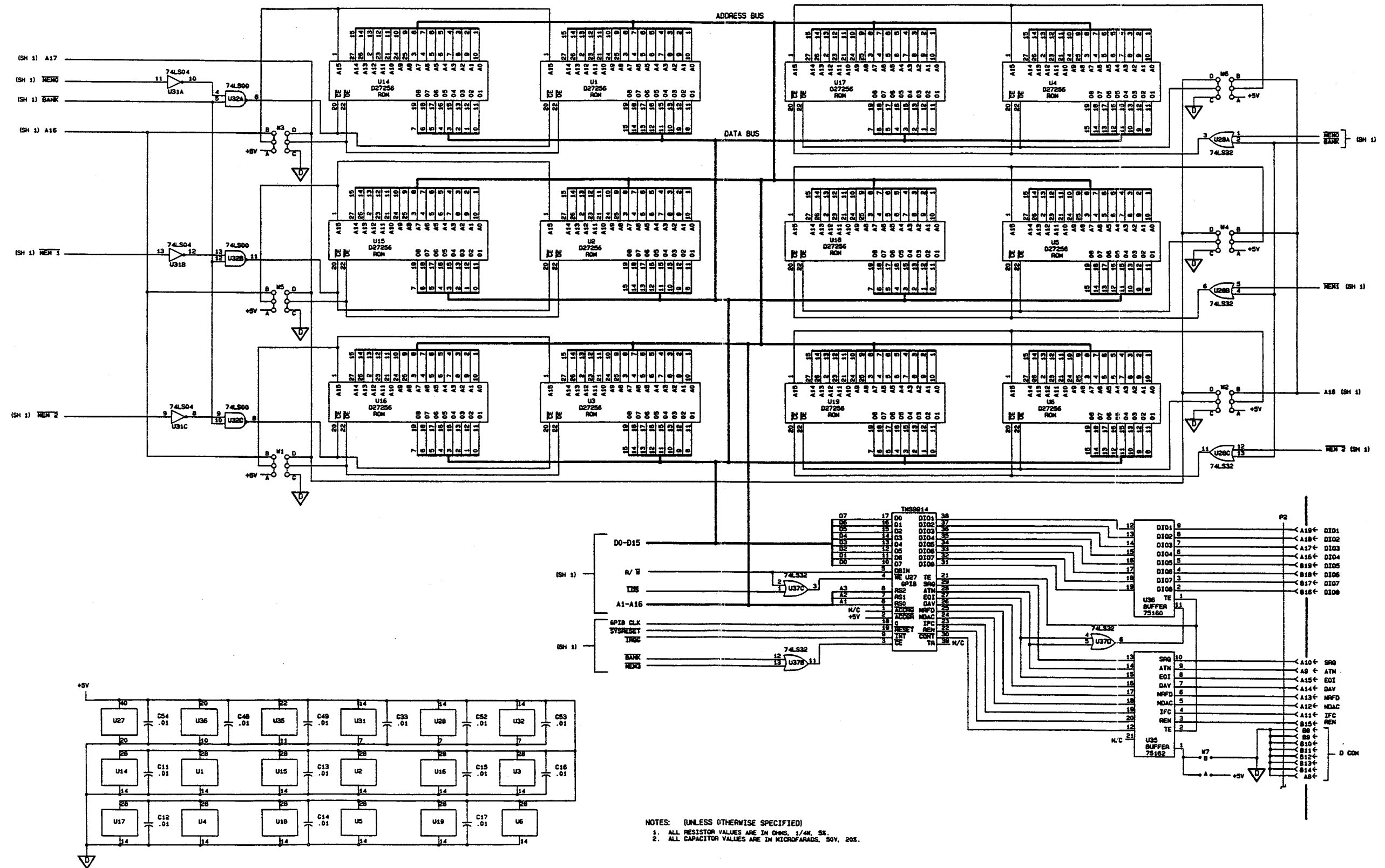


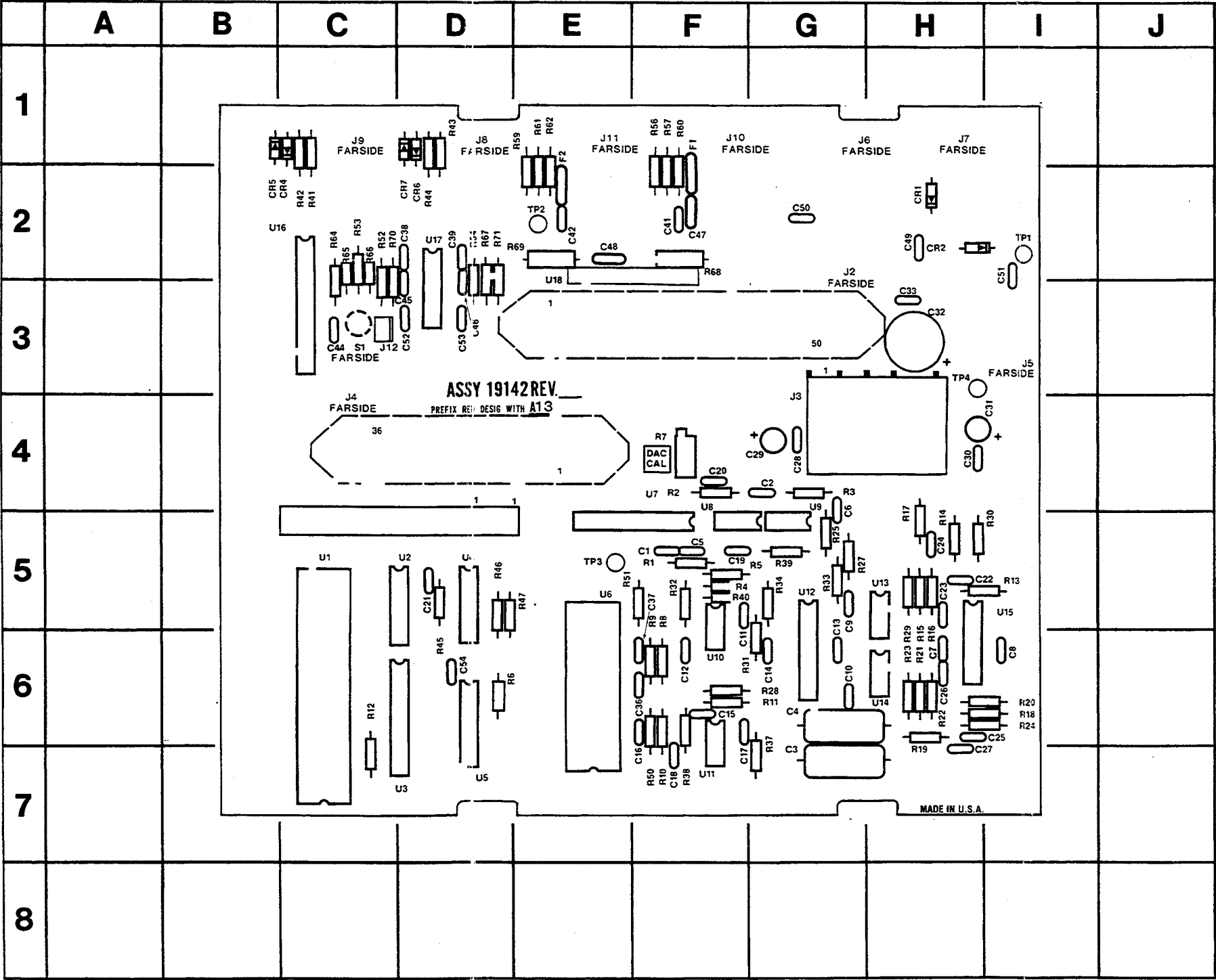
CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC
C1	J-2	C48	D-6	U1	B-2	Y1	J-2
C2	F-2	C49	D-6	U2	B-2	Y2	I-3
C3	F-3	C50	B-5	U3	C-2		
C4	F-2	C51		U4	D-2		
C5	F-3	C52	E-5	U5	D-2	W1	A-5
C6	F-3	C53	B-6	U6	E-2	W2	A-5
C7	H-4	C54	E-5	U7	F-2	W3	B-5
C8	H-3			U8	F-2	W4	B-5
C9	I-3			U9	G-2	W5	B-5
C10	J-3	CR1	F-2	U10	G-2	W6	C-5
C11	B-2			U11	H-2	W7	C-6
C12	D-2			U12	H-2	W8	F-4
C13	C-2	P1	G-7	U13	I-2	W9	F-7
C14	D-5	P2	B-7	U14	B-4		
C15	C-5			U15	B-4		
C16	C-2			U16	C-4		
C17	E-2	R1	F-2	U17	D-4		
C18	I-2	R2	F-2	U18	D-4		
C19	F-3	R3	F-2	U19	E-4		
C20	H-2	R4	G-2	U20	F-3		
C21	F-3	R5	I-3	U21	F-3		
C22	G-2	R6	I-3	U22	G-3		
C23	G-2	R7	I-4	U23	G-4		
C24	H-2	R8	I-4	U24	I-3		
C25	H-2	R9	H-4	U25	J-3		
C26	I-5	R10		U26			
C27	H-4	R11		U27	E-5		
C28	H-5	R12		U28	E-5		
C29	F-6	R13	B-6	U29	F-4		
C30	F-6	R14	C-6	U30	J-4		
C31	H-3	R15	A-5	U31	A-6		
C32	J-3	R16	A-5	U32	B-6		
C33	A-6	R17	H-2	U33	B-6		
C34	H-4	R18	H-2	U34	C-6		
C35	E-6			U35	C-6		
C36	E-6			U36	D-6		
C37	F-5	RP1	F-6	U37	E-6		
C38	B-6			U38	E-6		
C39	I-5			U39	F-6		
C40	J-5	S1	H-2	U40	F-6		
C41	H-5			U41	G-6		
C42	G-5			U42	G-6		
C43	G-5	TP1	I-2	U43	H-6		
C44	E-6	TP2	B-5	U44	H-6		
C45	F-7	TP3	A-5	U45	I-6		
C46	C-6	TP4	I-2	U46	J-6		
C47	F-7			U47	B-5		

CPU PCB Assy, DWG 16983

CPU, DWG 16984, Rev. F (1 of 2)

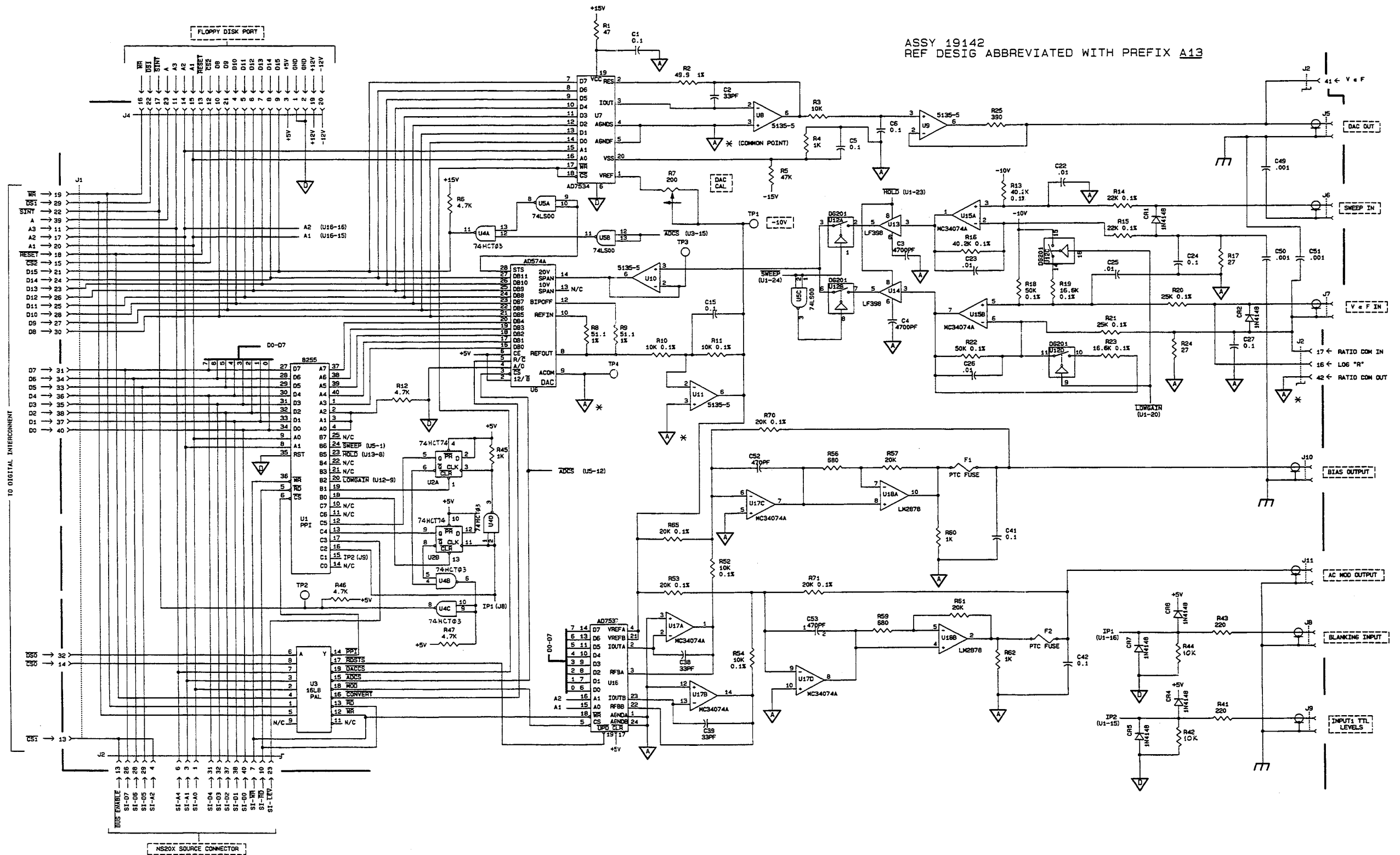




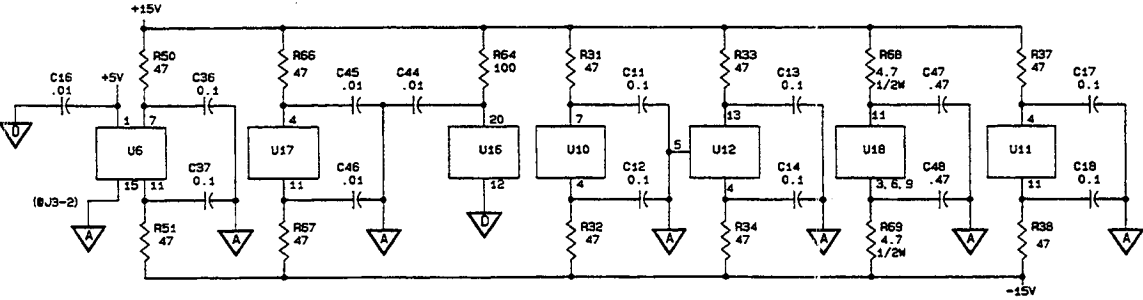
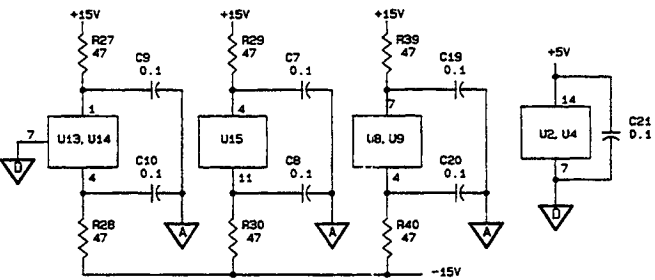
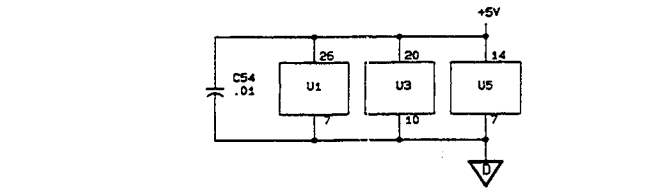
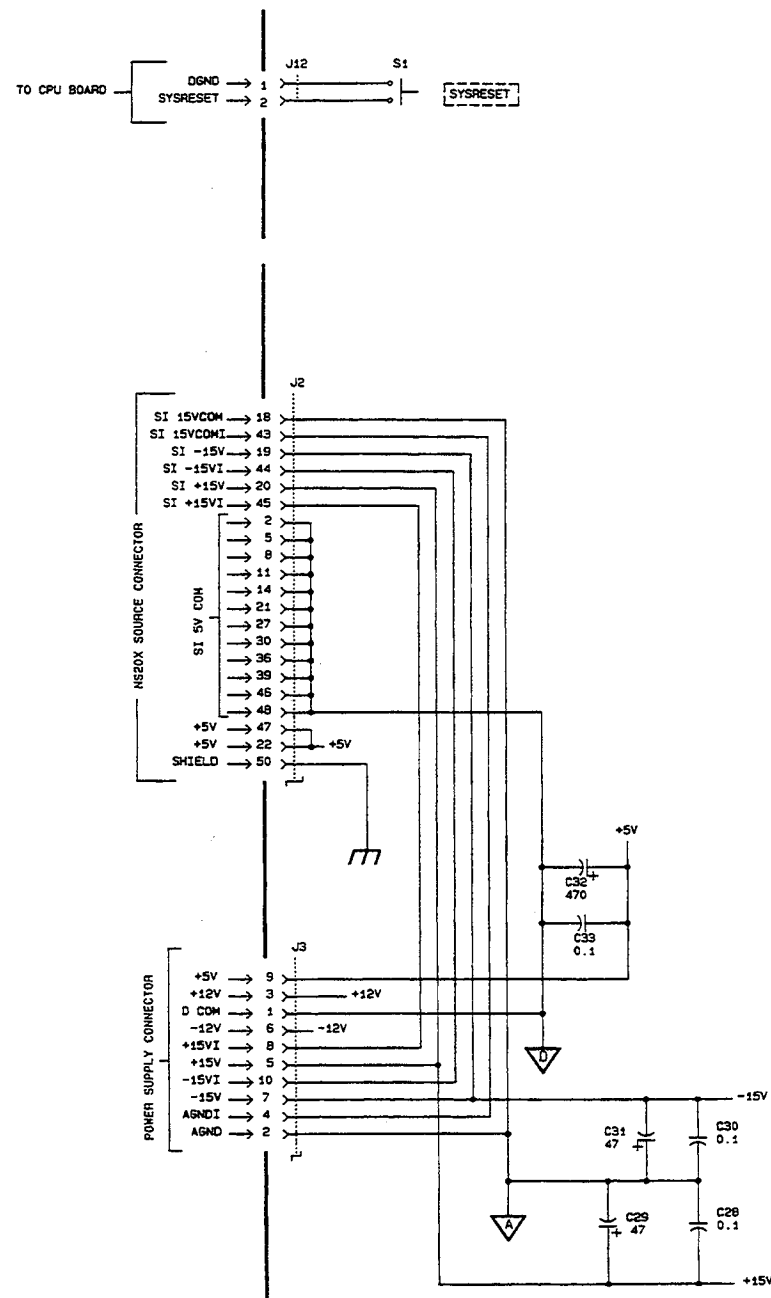


CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC
C1	F-5	C48	E-2	R12	C-7	R59	E-2
C2	G-4	C49	H-2	R13	I-5	R60	F-2
C3	G-7	C50	G-2	R14	H-5	R61	E-2
C4	G-6	C51	I-3	R15	H-5	R62	E-2
C5	F-5	C52	D-3	R16	H-5	R63	
C6	G-5	C53	D-3	R17	H-5	R64	C-3
C7	H-6	C54	D-6	R18	I-6	R65	C-2
C8	I-6			R19	I-6	R66	C-2
C9	G-5			R20	I-6	R67	D-3
C10	G-6	CR1	H-2	R21	H-6	R68	F-2
C11	F-5	CR2	H-2	R22	H-6	R69	E-2
C12	F-6	CR3		R23	H-6	R70	C-3
C13	G-6	CR4	C-1	R24	I-6	R71	D-3
C14	G-6	CR5	B-1	R25	G-5		
C15	F-6	CR6	D-1	R26			
C16	F-6	CR7	D-1	R27	G-5	S1	C-3
C17	F-6			R28	F-6		
C18	F-7			R29	H-5		
C19	F-5	F1	F-2	R30	H-5	TP1	I-2
C20	F-4	F2	E-2	R31	G-6	TP2	E-2
C21	D-5			R32	F-5	TP3	E-5
C22	H-5			R33	G-5	TP4	H-4
C23	H-5	J1	D-5	R34	G-5		
C24	H-5	J2	F-3	R35			
C25	H-6	J3	G-4	R36		U1	C-5
C26	H-6	J4	C-4	R37	G-7	U2	C-5
C27	H-7	J5	I-3	R38	F-6	U3	C-6
C28	G-4	J6	G-2	R39	G-5	U4	D-5
C29	G-4	J7	H-2	R40	F-5	U5	D-6
C30	H-4	J8	D-2	R41	C-1	U6	E-6
C31	H-4	J9	C-2	R42	C-1	U7	F-5
C32	H-3	J10	F-2	R43	D-1	U8	F-5
C33	H-3	J11	E-1	R44	D-1	U9	G-5
C34		J12	C-3	R45	D-5	U10	F-6
C35				R46	D-5	U11	F-7
C36	F-6			R47	D-5	U12	G-6
C37	F-6	R1	F-5	R48		U13	H-5
C38	D-2	R2	F-4	R49		U14	H-6
C39	D-2	R3	G-4	R50	F-6	U15	H-5
C40		R4	F-5	R51	F-5	U16	C-2
C41	F-2	R5	F-5	R52	D-3	U17	D-3
C42	E-2	R6	D-6	R53	C-2	U18	E-3
C43		R7	F-4	R54	D-3		
C44	C-3	R8	F-6	R55			
C45	D-3	R9	F-6	R56	F-2		
C46	D-3	R10	F-6	R57	F-2		
C47	F-2	R11	F-6	R58			

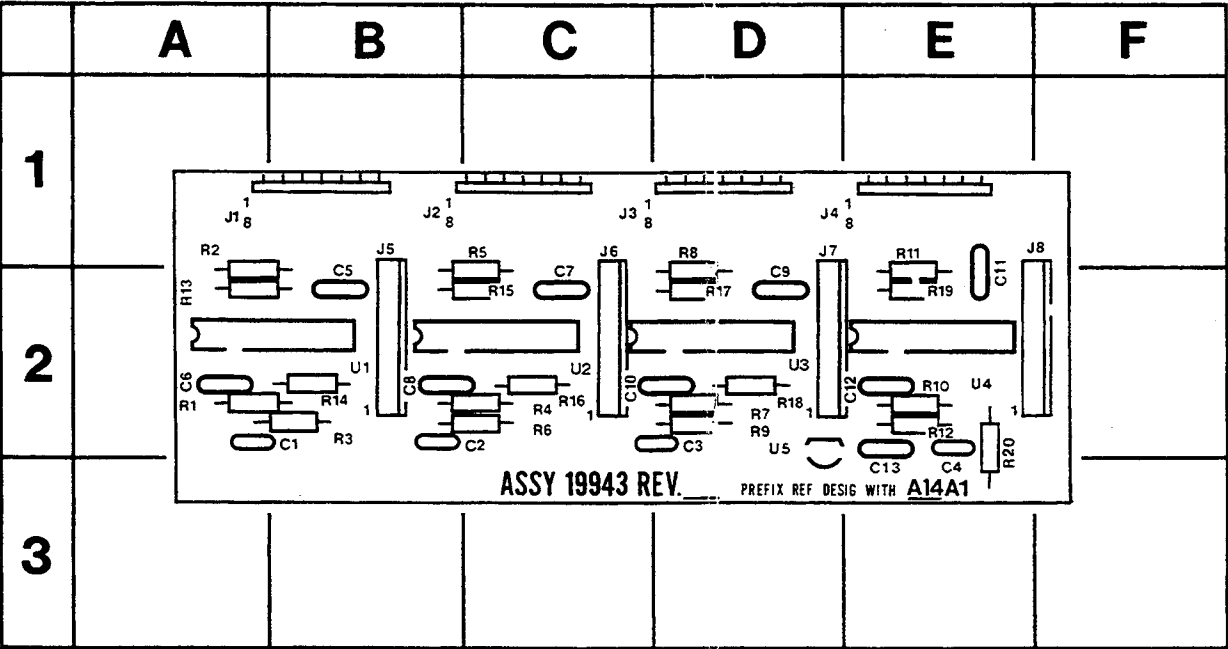
Rear Panel PCB Assy, DWG 19142



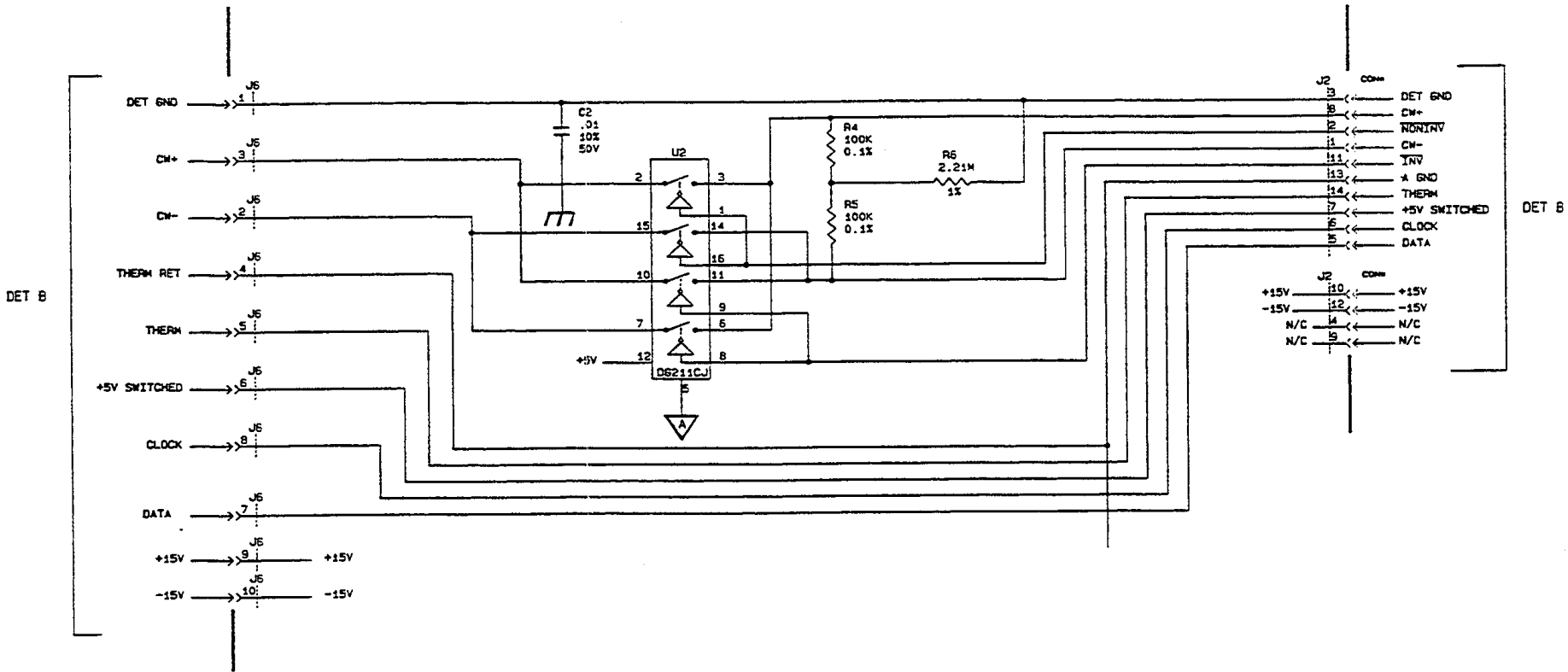
Rear Panel, DWG 19143, Rev. D (1 of 2)



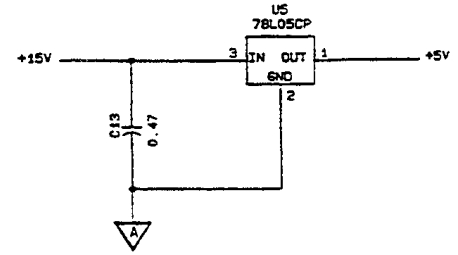
Rear Panel, DWG 19143, Rev. D (2 of 2)

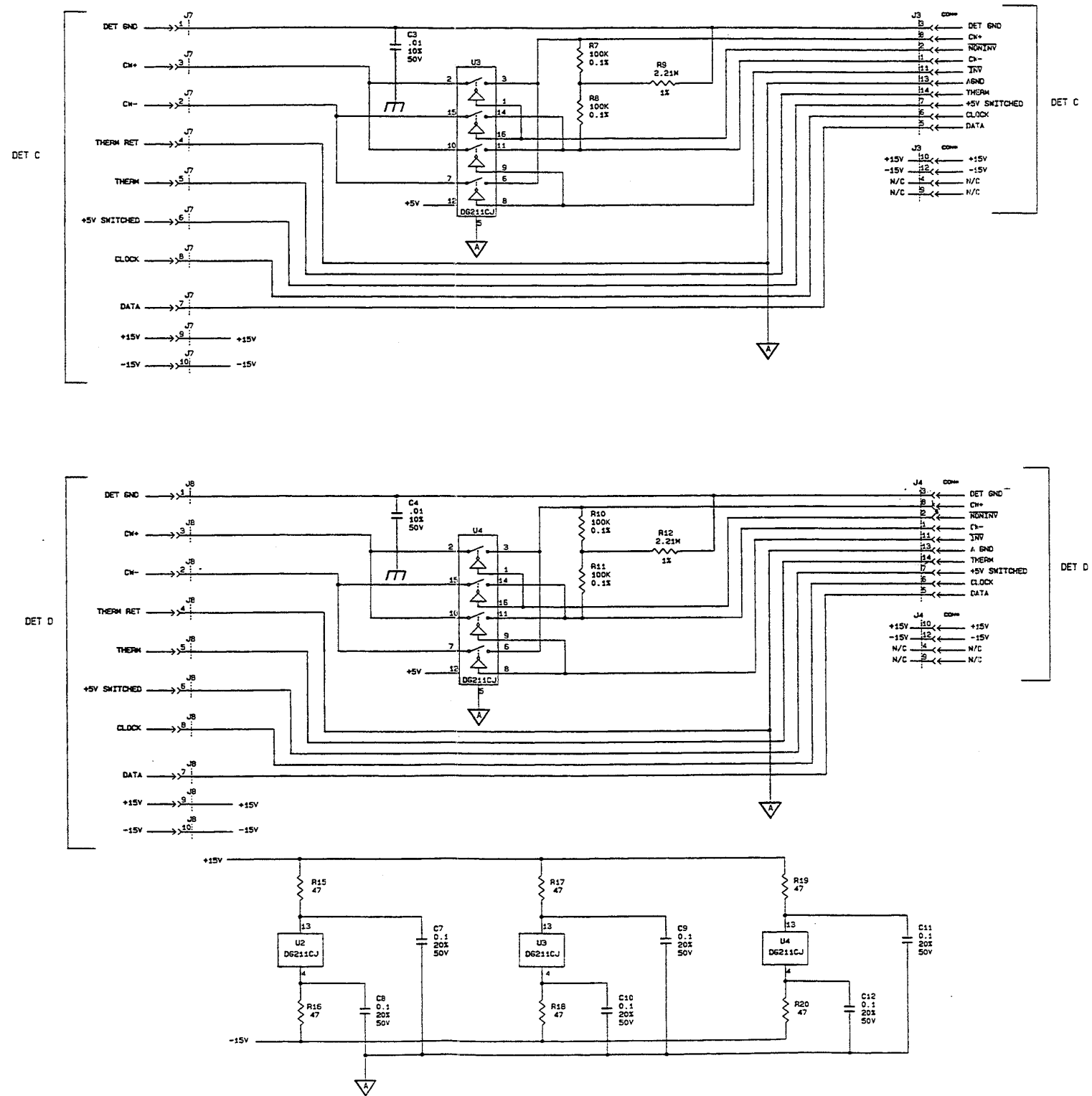


CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC	CKT REF	GRID LOC
C1	A-2	C13	E-2	R1	A-2	R13	A-2	U3	D-2
C2	B-2			R2	A-2	R14	B-2	U4	E-2
C3	D-2			R3	B-2	R15	C-2	U5	D-2
C4	E-2	J1	B-1	R4	C-2	R16	C-2		
C5	B-2	J2	C-1	R5	C-2	R17	D-2		
C6	A-2	J3	D-1	R6	C-2	R18	D-2		
C7	C-2	J4	E-1	R7	D-2	R19	E-2		
C8	B-2	J5	B-2	R8	D-2	R20	E-2		
C9	D-2	J6	C-2	R9	D-2				
C10	D-2	J7	D-2	R10	E-2				
C11	E-2	J8	F-2	R11	E-2	U1	B-2		
C12	E-2			R12	E-2	U2	C-2		



- NOTES: (UNLESS OTHERWISE SPECIFIED)
1. RESISTOR VALUES ARE IN OHMS $\pm 5\%$ 1/8W.
 2. CAPACITOR VALUES ARE IN MICROFARADS $\pm 10\%$ 50V.
 3. INDUCTOR VALUES ARE IN MICROHENRYS
 4. POTENTIOMETER ARROW INDICATES CW ROTATION





Modulator, DWG 19944, Rev. A (2 of 2)

