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53A-241 ARBITRARY WAVEFORM GENERATOR CARD

SERVICE MANUAL

BFGoodrich
Aerospace

JcAIR Test Systems

WARRANTY

BFGoodrich Aerospace JcAir Test Systems (TSD) warrants its CDSbus products (hardware and firmware) against defects in materials and workmanship, and are warranted to meet the performance specifications as listed in the current catalog and/or data sheet for the specific product being warranted. This warranty applies for three (3) years following the date of shipment. TSD will, at its option, repair or replace, at no cost to the customer, products which prove to be defective during the warranty period, provided the defect or failure is not due to misuse or abuse of the product. The customer is responsible for shipment of the defective product to the TSD factory. Software products are supplied on a site license basis subject to the same performance warranty provisions; the materials and distribution provision applies to the distribution media only. NO OTHER WARRANTY IS EXPRESSED OR IMPLIED, INCLUDING WARRANTY FOR FITNESS OF PURPOSE. TSD SHALL, IN NO CASE, BE LIABLE FOR CONSEQUENTIAL DAMAGES.

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1/20/00 8803-02-A through 9301-02-J

JcAIR INC.

NAME: ARBITRARY WAVEFORM GEN CARD 9301-02-J-00 ASSY NO: 53A-241

REVISION: 01 DATE: 09/09/1999

ITEM/ SYMBOL	JcAIR P/N	DESCRIPTION	U/M	QTY	MFG	MFG'S P/N
1	41530-24100	P.C. BOARD VERSION 4L 9301 4	EA	1.00	SAE CIRCUITS CO	41530-24100
					TEKTRONIX INC.	41530-24100
					UNICIRCUITS	41530-24100
2	53A-729	CABLE ADAPTER BNC MALE TO SMB SNAP-ON	EA	1.00	JcAIR	53A-729
3	53A-729-10	CABLE 10 FT LENGTH	EA	1.00	JcAIR	53A-729-10
C02	21018-15009	CAP FXD ELECT 150UF 75% -10% 16VDCW	EA	1.00	CORNELL-DUBILIE	NLW150-16
					MALLORY CAPACIT	TT16M150A
C03	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	25.00	AVX/KYOCERA	SR201E103MAA
					KEMET-UNION CAR	C322C103M5U5CA
					SPRAGUE/VISHAY	1C25Z5U103M050B
C05	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C07	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C23	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C25	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C27	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C31	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C45	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C47	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C52	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C53	21528-10003	CAP FXD MICA 100PF 5% 500VDCW	EA	1.00	ARCO ELEC INC.	CM04FD101J03
					CORNELL-DUBILIE	CD10FD101J03
C57	20128-10004	CAP FXD CER .001UF 10% STABLE 100VDCW	EA	3.00	AVX/KYOCERA	CK05BX102K
					KEMET-UNION CAR	CK05BX102K
C62	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C65	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C67	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C72	22022-20008	CAP FXD TA 22UF 10-20% 20-25VDCW	EA	2.00	KEMET-UNION CAR	T350G226M020AS
					SPRAGUE/VISHAY	199D226X9025CA1
					STANTEL COMPONE	226X9025
C74	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C75	20128-10004	CAP FXD CER .001UF 10% STABLE 100VDCW	EA	-		
C77	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C85	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C91	21528-50001	CAP FXD MICA 5PF 10% 500 VDCW	EA	2.00	ARCO ELEC INC.	DM10-050D-500VDCW
					CORNELL-DUBILIE	CD10CD050D03
C95	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C97	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C431	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C432	21528-10004	CAP FXD MICA 1000PF 5% 100VDCW	EA	3.00	ARCO ELEC INC.	DM15-102J
					CORNELL-DUBILIE	CD15FA102J03
C433	21528-10004	CAP FXD MICA 1000PF 5% 100VDCW	EA	-		
C711	21528-10004	CAP FXD MICA 1000PF 5% 100VDCW	EA	-		
C712	20129-10006	CAP FXD CER .1UF 10% STABLE 100VDCW	EA	2.00	AVX/KYOCERA	CKR06BX104K
					KEMET-UNION CAR	CK06BX104K
C713	22022-20008	CAP FXD TA 22UF 10-20% 20-25VDCW	EA	-		
C714	20129-10006	CAP FXD CER .1UF 10% STABLE 100VDCW	EA	-		
C812	21528-50001	CAP FXD MICA 5PF 10% 500 VDCW	EA	-		

NAME: ARBITRARY WAVEFORM GEN CARD 9301-02-J-00 ASSY NO: 53A-241

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ITEM/ SYMBOL	JcAIR P/N	DESCRIPTION	U/M	QTY	MFG	MFG'S P/N
C941	21528-75002	CAP FXD MICA 75PF 5% 500VDCW	EA	2.00	ARCO ELEC INC.	DM10-750J-500VDCW
					CORNELL-DUBILIE	CD10ED750J03
					SPRAGUE/VISHAY	CM04ED750J03
C942	21528-75002	CAP FXD MICA 75PF 5% 500VDCW	EA	-		
C1031	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C1061	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C1131	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C1141	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C1151	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
C1152	20128-10004	CAP FXD CER .001UF 10% STABLE 100VDCW	EA	-		
C1171	20128-10005	CAP FXD CER .01UF 20% 50VDCW	EA	-		
CR57	32000-04148	DIODE SILICON 75V 1A 5%	EA	1.00	NATIONAL SEMI /	1N4148
DS11	32000-00103	DIODE LED RED 50MA	EA	1.00	DIALIGHT	550-0103
					DIALIGHT	550-0406
					QUALITY TECHNOL	MV60538.MP7
DS121	32000-02003	DIODE LED RED W/RES	EA	5.00	DIALIGHT	547-2003
					EATON CORPORATI	134LIC
					QUALITY TECHNOL	MR5010.MP1
DS122	32000-02003	DIODE LED RED W/RES	EA	-		
DS123	32000-02003	DIODE LED RED W/RES	EA	-		
DS124	32000-02003	DIODE LED RED W/RES	EA	-		
DS125	32000-02003	DIODE LED RED W/RES	EA	-		
E1	40401-00241	STAMP 53A-241 STYLE B BLUE	EA	1.00	STU PHILLIPS CO	53A-241
E2	40401-10067	STAMP ARB STYLE D BLUE	EA	1.00	STU PHILLIPS CO	ARB
E3	45050-03302	DCL LED 5POS DRW 00000-00600	EA	1.00	GOOD DECAL	45050-03302
E4	45050-03240	DCL LED 5POS BLK DRW 00000 -00470	EA	1.00	GOOD DECAL	45050-03240
F07	42202-52001	FUSE SUB-MIN 2AMP	EA	1.00	LITTLEFUSE INC.	251002
					SAN-O	SP5-2A
F1171	42202-52101	FUSE SUB-MIN 1AMP	EA	2.00	LITTLEFUSE INC.	251001
F1172	42202-52101	FUSE SUB-MIN 1AMP	EA	-		
J411	45002-51053	CONNECTOR SMB RT. ANGLE PC BD MOUNT	EA	6.00	APPLIED ENGINEE	2010-1511-018
					RADIAL	R 114665
J412	45002-51053	CONNECTOR SMB RT. ANGLE PC BD MOUNT	EA	-		
J511	45002-51053	CONNECTOR SMB RT. ANGLE PC BD MOUNT	EA	-		
J512	45002-51053	CONNECTOR SMB RT. ANGLE PC BD MOUNT	EA	-		
J611	45002-51053	CONNECTOR SMB RT. ANGLE PC BD MOUNT	EA	-		
J612	45002-51053	CONNECTOR SMB RT. ANGLE PC BD MOUNT	EA	-		
Q011	51100-03646	TRANSISTOR NPN HIGH SPEED SWITCH	EA	3.00	MOTOROLA SEMICO	MPS3646
					NATIONAL SEMI /	MPS3646
					SEMICONDUCTORS,	MPS3646
Q012	51100-03906	TRANSISTOR PNP SWITCHING	EA	1.00	NATIONAL SEMI /	2N3906
Q021	51100-03646	TRANSISTOR NPN HIGH SPEED SWITCH	EA	-		
Q022	51100-03646	TRANSISTOR NPN HIGH SPEED SWITCH	EA	-		
Q911	51100-05943	TRANSISTOR HIGH SPEED NPN	EA	2.00	MOTOROLA SEMICO	2N5943
Q912	51100-05583	TRANSISTOR HIGH SPEED PNP	EA	2.00	MOTOROLA SEMICO	2N5583
Q1011	51100-05583	TRANSISTOR HIGH SPEED PNP	EA	-		
Q1012	51100-05943	TRANSISTOR HIGH SPEED NPN	EA	-		

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R17	10117-33004	RES COMP 3.3K 1-4W 5%	EA	6.00	ALLEN-BRADLEY C	RC07GF332J
					ROHM CORP.	R25JE-3.3K-5%
R47	10117-33003	RES COMP 330 1-4W 5%	EA	2.00	ALLEN-BRADLEY C	RC07GF331J
					NIC	NIC-NCF25-330
					ROHM CORP.	R25JE-330-5%
R82	12008-22005	RES NETWORK SIP 22K 5% 1.5W 9-PKG	EA	1.00	BOURNS INC.	4310R-101-223
					CTS OF BERNE, I	750-101-R22K
					INTERNATIONAL R	610-1-223G
R021	10117-10005	RES COMP 10K 1-4W 5%	EA	3.00	ALLEN-BRADLEY C	RC07GF103J
					ROHM CORP.	R25JE-10K-5%
R022	10117-22005	RES COMP 22K 1-4W 5%	EA	1.00	ALLEN-BRADLEY C	RC07GF223J
					ROHM CORP.	R25JE-22K-5%
R023	10117-68004	RES COMP 6.8K 1-4W 5%	EA	1.00	ROHM CORP.	R25JE-6.8K-5%
R024	10117-33004	RES COMP 3.3K 1-4W 5%	EA	-		
R025	10117-33004	RES COMP 3.3K 1-4W 5%	EA	-		
R111	10117-33003	RES COMP 330 1-4W 5%	EA	-		
R112	10117-12005	RES COMP 12K 1-4W 5%	EA	1.00	ALLEN-BRADLEY C	RC07GF123J
					ROHM CORP.	R25JE-12K-5%
R211	10117-10005	RES COMP 10K 1-4W 5%	EA	-		
R212	10117-10005	RES COMP 10K 1-4W 5%	EA	-		
R421	10117-33004	RES COMP 3.3K 1-4W 5%	EA	-		
R422	10117-33004	RES COMP 3.3K 1-4W 5%	EA	-		
R521	10117-10004	RES COMP 1K 1-4W 5%	EA	3.00	ALLEN-BRADLEY C	RC07GF102J
					ROHM CORP.	R25JE-1K-5%
R522	10117-33004	RES COMP 3.3K 1-4W 5%	EA	-		
R711	14044-24902	RES FILM 24.9 1-4W .1%	EA	2.00	DALE/VISHAY	CMF60 24R9BT-2
R712	15117-20004	RES VAR CER 2K 1W 22TRN 100PPM	EA	1.00	SPECTROL ELECS.	43P-202
R713	14044-24902	RES FILM 24.9 1-4W .1%	EA	-		
R811	15117-10005	RES VAR CER 10K 22TRN 1W 100PPM	EA	1.00	SPECTROL ELECS.	43P-103
R812	10117-20004	RES COMP 2K 1-4W 5%	EA	2.00	ALLEN-BRADLEY C	RC07GF202J
					ROHM CORP.	R25JE-2K-5%
R813	10117-20004	RES COMP 2K 1-4W 5%	EA	-		
R911	14064-40201	RES FILM 4.02 1-2W 1% 300PPM	EA	2.00	DALE/VISHAY	CMF60 4R02F
R912	14064-40201	RES FILM 4.02 1-2W 1% 300PPM	EA	-		
R914	10117-51005	RES COMP 51K 1-4W 5%	EA	1.00	ALLEN-BRADLEY C	RC07GF513J
					ROHM CORP.	R25JE-51K-5%
R915	10117-51002	RES COMP 51 1-4W 5%	EA	6.00	ALLEN-BRADLEY C	RC07GF510J
					ROHM CORP.	R25JE-51-5%
R916	10117-10004	RES COMP 1K 1-4W 5%	EA	-		
R918	10117-51002	RES COMP 51 1-4W 5%	EA	-		
R1011	10117-51002	RES COMP 51 1-4W 5%	EA	-		
R1012	10117-10004	RES COMP 1K 1-4W 5%	EA	-		
R1013	10117-51002	RES COMP 51 1-4W 5%	EA	-		
R1014	10117-68005	RES COMP 68K 1-4W 5%	EA	1.00	ROHM CORP.	R25JE-68K-5%

JcAIR INC.

NAME: ARBITRARY WAVEFORM GEN CARD 9301-02-J-00 ASSY NO: 53A-241

REVISION: 01 DATE: 09/09/1999

ITEM/ SYMBOL	JcAIR P/N	DESCRIPTION	U/M	QTY	MFG	MFG'S P/N
R1015	10117-62005	RES COMP 62K 1-4W 5%	EA	1.00	ALLEN-BRADLEY C	RC07GF623J
					ROHM CORP.	R25JE-62K-5%
R1021	10117-51002	RES COMP 51 1-4W 5%	EA	-		
R1022	10117-51002	RES COMP 51 1-4W 5%	EA	-		
S21	42050-10101	SWITCH DIP 1POS SPST	EA	1.00	SMK ELECS CORP.	JS8750-01
S97	42050-10010	SWITCH 10POS.(SUB ASSY.)	EA	1.00	JcAIR	42050-10010
U03	71208-74160	IC HCMOS DECADE COUNTER 4-BIT	EA	5.00	RCA CORP. (HARR	CD74HC160E
					SIGNETICS/PHILL	74HC160N
					TOSHIBA	TC74HC160AP
U04	71208-74160	IC HCMOS DECADE COUNTER 4-BIT	EA	-		
U05	71208-74160	IC HCMOS DECADE COUNTER 4-BIT	EA	-		
U06	71208-74160	IC HCMOS DECADE COUNTER 4-BIT	EA	-		
U07	71208-74160	IC HCMOS DECADE COUNTER 4-BIT	EA	-		
U13	79814-00092	PAL PROGRAMMED 18CV8 REV B 53A-241	EA	1.00	JcAIR	79814-00092
U14	73304-07474	IC HCMOS DUAL D-TYPE FLIP-FLOP	EA	6.00	NATIONAL SEMI /	MM74HC74
					TEXAS INSTR. IN	74HC74
U15	79814-00089	PAL PROGRAMMED 18CV8 REV C 53A-241	EA	1.00	JcAIR	79814-00089
U16	76601-07438	IC TTL QUAD 2-INPUT NAND BUFFER W-OC	EA	1.00	NATIONAL SEMI /	DM7438
					TEXAS INSTR. IN	7438
U17	79814-00124	PAL PROGRAMMED 16L8L REV B 53A-241	EA	1.00	JcAIR	79814-00124
U21	73304-07474	IC HCMOS DUAL D-TYPE FLIP-FLOP	EA	-		
U22	79814-00095	PAL PROGRAMMED 16L8L REV B 53A-241	EA	1.00	JcAIR	79814-00095
U23	71208-74390	IC HCMOS DECADE COUNTER DUAL 4-BIT	EA	1.00	MOTOROLA SEMICO	MC74HC390
					NATIONAL SEMI /	DM74HC390
					TEXAS INSTR. IN	74HC390
U24	79814-00100	PAL PROGRAMMED 16L8L REV A 53A-241	EA	1.00	JcAIR	79814-00100
U25	73304-07474	IC HCMOS DUAL D-TYPE FLIP-FLOP	EA	-		
U26	79814-00090	PAL PROGRAMMED EP310 REV A 53A-241	EA	1.00	JcAIR	79814-00090
U27	73310-74240	IC TTL LS OCTAL BUFFER	EA	2.00	MOTOROLA SEMICO	SN74LS240
					NATIONAL SEMI /	DM74LS240
					TEXAS INSTR. IN	74LS240
U31	73304-07474	IC HCMOS DUAL D-TYPE FLIP-FLOP	EA	-		
U33	73304-07473	IC HCMOS DUAL J-K FLIP-FLOP	EA	1.00	NATIONAL SEMI /	MM74HC73
					RCA CORP. (HARR	CD74HC73
					TEXAS INSTR. IN	74HC73
U34	73304-07474	IC HCMOS DUAL D-TYPE FLIP-FLOP	EA	-		
U35	73004-74273	IC HCMOS OCTAL FLIP-FLOP D-TYPE	EA	4.00	TEXAS INSTR. IN	74HC273
U36	79814-00096	PAL PROGRAMMED 16L86 REV B 53A-241 AND 2	EA	1.00	JcAIR	79814-00096
U37	73310-74240	IC TTL LS OCTAL BUFFER	EA	-		
U42	73312-74240	IC TTL AS OCTAL BUFFER	EA	1.00	NATIONAL SEMI /	DM74AS240
					TEXAS INSTR. IN	74AS240
U43	79814-00091	PAL PROGRAMMED 18CV8 REV D 53A-241	EA	1.00	JcAIR	79814-00091
U44	79814-00094	PAL PROGRAMMED 16L8L REV A 53A-241	EA	1.00	JcAIR	79814-00094
U45	79814-00099	PAL PROGRAMMED 16L8L REV B 53A-241	EA	1.00	JcAIR	79814-00099
U46	79814-00097	PAL PROGRAMMED 16L8L REV A 53A-241 AND 2	EA	1.00	JcAIR	79814-00097

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U47	71201-74192	IC HC DECADE COUNTER UP-DOWN	EA	4.00	NATIONAL SEMI /	MM74HC192N
					TEXAS INSTR. IN	74HC192
U53	73310-74241	IC TTL LS OCTAL BUFFER NON-INVERTING	EA	4.00	MOTOROLA SEMICO	SN74LS241
					NATIONAL SEMI /	DM74LS241
					TEXAS INSTR. IN	74LS241
U54	79814-00098	PAL PROGRAMMED 16L8L REV A 53A-241	EA	1.00	JcAIR	79814-00098
U55	71201-74192	IC HC DECADE COUNTER UP-DOWN	EA	-		
U56	71201-74192	IC HC DECADE COUNTER UP-DOWN	EA	-		
U57	79814-00093	PAL PROGRAMMED 16L8L REV A 53A-241 AND 2	EA	1.00	JcAIR	79814-00093
U62	71200-74161	IC TTL COUNTER LS SYNCH 4-BIT	EA	4.00	MOTOROLA SEMICO	SN74LS161A
					NATIONAL SEMI /	DM74LS161A
					TEXAS INSTR. IN	74LS161A
U65	71201-74192	IC HC DECADE COUNTER UP-DOWN	EA	-		
U66	73004-74273	IC HCMOS OCTAL FLIP-FLOP D-TYPE	EA	-		
U67	73004-74574	IC HCMOS OCTAL LATCH D-TYPE INV TRISTATE	EA	2.00	NATIONAL SEMI /	MM74HC574
					TEXAS INSTR. IN	74HC574
U72	71200-74161	IC TTL COUNTER LS SYNCH 4-BIT	EA	-		
U75	71206-74161	IC TTL LS COUNTER SYNCH 4-BIT TI ONLY	EA	2.00	TEXAS INSTR. IN	74LS161A
U76	73004-74273	IC HCMOS OCTAL FLIP-FLOP D-TYPE	EA	-		
U77	73004-74574	IC HCMOS OCTAL LATCH D-TYPE INV TRISTATE	EA	-		
U81	61000-00032	OP AMP FET ULTRA FAST BUFFER	EA	1.00	NATIONAL SEMI /	LH0032CG
U82	20100-00565	IC CONVERTER D/A	EA	1.00	ANALOG DEVICES,	AD565AKD
U83	73002-74374	IC TTL AS OCTAL FLIP-FLOP D-TYPE	EA	4.00	NATIONAL SEMI /	DM74AS374
					TEXAS INSTR. IN	74AS374
U84	73002-74374	IC TTL AS OCTAL FLIP-FLOP D-TYPE	EA	-		
U85	73310-74241	IC TTL LS OCTAL BUFFER NON-INVERTING	EA	-		
U86	73001-74564	IC OCTAL TRISTATE LATCH INVERTING	EA	2.00	MOTOROLA SEMICO	MC74HC564N
U87	73004-74273	IC HCMOS OCTAL FLIP-FLOP D-TYPE	EA	-		
U93	73002-74374	IC TTL AS OCTAL FLIP-FLOP D-TYPE	EA	-		
U94	73002-74374	IC TTL AS OCTAL FLIP-FLOP D-TYPE	EA	-		
U95	73310-74241	IC TTL LS OCTAL BUFFER NON-INVERTING	EA	-		
U96	73001-74564	IC OCTAL TRISTATE LATCH INVERTING	EA	-		
U97	73304-07474	IC HCMOS DUAL D-TYPE FLIP-FLOP	EA	-		
U102	71200-74161	IC TTL COUNTER LS SYNCH 4-BIT	EA	-		
U105	73310-74241	IC TTL LS OCTAL BUFFER NON-INVERTING	EA	-		
U106	79813-00037	PROGRAMMED PROM U96 53A-241	EA	1.00	JcAIR	79813-00037
U107	79813-00038	PROGRAMMED PROM U97 53A-241	EA	1.00	JcAIR	79813-00038
U112	71200-74161	IC TTL COUNTER LS SYNCH 4-BIT	EA	-		
U115	71206-74161	IC TTL LS COUNTER SYNCH 4-BIT TI ONLY	EA	-		
U631	79805-00128	IC CMOS 2K X 8 SRAM 45NS 5	EA	8.00	CYPRESS SEMICON	CY7C128-45PC
					MICRON TECHNOLO	MT5C1608-45
					MOTOROLA SEMICO	MCM2018AN45P
U632	79805-00128	IC CMOS 2K X 8 SRAM 45NS 5	EA	-		
U641	79805-00128	IC CMOS 2K X 8 SRAM 45NS 5	EA	-		
U642	79805-00128	IC CMOS 2K X 8 SRAM 45NS 5	EA	-		
U1031	79805-00128	IC CMOS 2K X 8 SRAM 45NS 5	EA	-		
U1032	79805-00128	IC CMOS 2K X 8 SRAM 45NS 5	EA	-		
U1041	79805-00128	IC CMOS 2K X 8 SRAM 45NS 5	EA	-		

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U1042	79805-00128	IC CMOS 2K X 8 SRAM 45NS 5	EA	-		
VR71	32000-05243	DIODE ZENER 13V .5W 5%	EA	2.00	MOTOROLA SEMICO	1N5243B
					NATIONAL SEMI /	1N5243B
					SGS/THOMPSON MO	1N5243B
VR81	32000-05243	DIODE ZENER 13V .5W 5%	EA	-		
X01	45001-05100	CONNECTOR SIP 5 PIN	EA	2.00	CIRCUIT ASSEMBL	CAS-05VSC-12B
X02	45001-05100	CONNECTOR SIP 5 PIN	EA	-		
X13	45012-20095	SOCKET 20 PIN FOR PALS EXTRA LOW PROFILE	EA	13.00	ANDON	104-320-835-P29
					ROBINSON NUGENT	ICT-203-SP95-TG
X15	45012-20095	SOCKET 20 PIN FOR PALS EXTRA LOW PROFILE	EA	-		
X17	45012-20095	SOCKET 20 PIN FOR PALS EXTRA LOW PROFILE	EA	-		
X22	45012-20095	SOCKET 20 PIN FOR PALS EXTRA LOW PROFILE	EA	-		
X24	45012-20095	SOCKET 20 PIN FOR PALS EXTRA LOW PROFILE	EA	-		
X26	45012-20095	SOCKET 20 PIN FOR PALS EXTRA LOW PROFILE	EA	-		
X36	45012-20095	SOCKET 20 PIN FOR PALS EXTRA LOW PROFILE	EA	-		
X43	45012-20095	SOCKET 20 PIN FOR PALS EXTRA LOW PROFILE	EA	-		
X44	45012-20095	SOCKET 20 PIN FOR PALS EXTRA LOW PROFILE	EA	-		
X45	45012-20095	SOCKET 20 PIN FOR PALS EXTRA LOW PROFILE	EA	-		
X46	45012-20095	SOCKET 20 PIN FOR PALS EXTRA LOW PROFILE	EA	-		
X54	45012-20095	SOCKET 20 PIN FOR PALS EXTRA LOW PROFILE	EA	-		
X57	45012-20095	SOCKET 20 PIN FOR PALS EXTRA LOW PROFILE	EA	-		
X106	45012-28128	SOCKET 28-PIN DIP MACHINED	EA	2.00	AUGAT	528-AG11D-ES
					AUGAT	528-AG19ES
					ROBINSON NUGENT	ICA-286-S-TG30
X107	45012-28128	SOCKET 28-PIN DIP MACHINED	EA	-		
Y21	89499-02000	CRYSTAL OSC 2.000MHZ 50PPM	EA	1.00	CTS OF BERNE, I	MXO55GB-3C-2MHZ
					DALE/VISHAY	XO-43A-2.000
REF0	53A-241	ARBITRARY WAVEFORM GEN CARD 9301-02-J-00	EA	-		

JcAIR INC.

NAME: CABLE ADAPTER BNC MALE TO SMB SNAP-ON ASSY NO: 53A-729

REVISION: 00 DATE: 07/20/1995

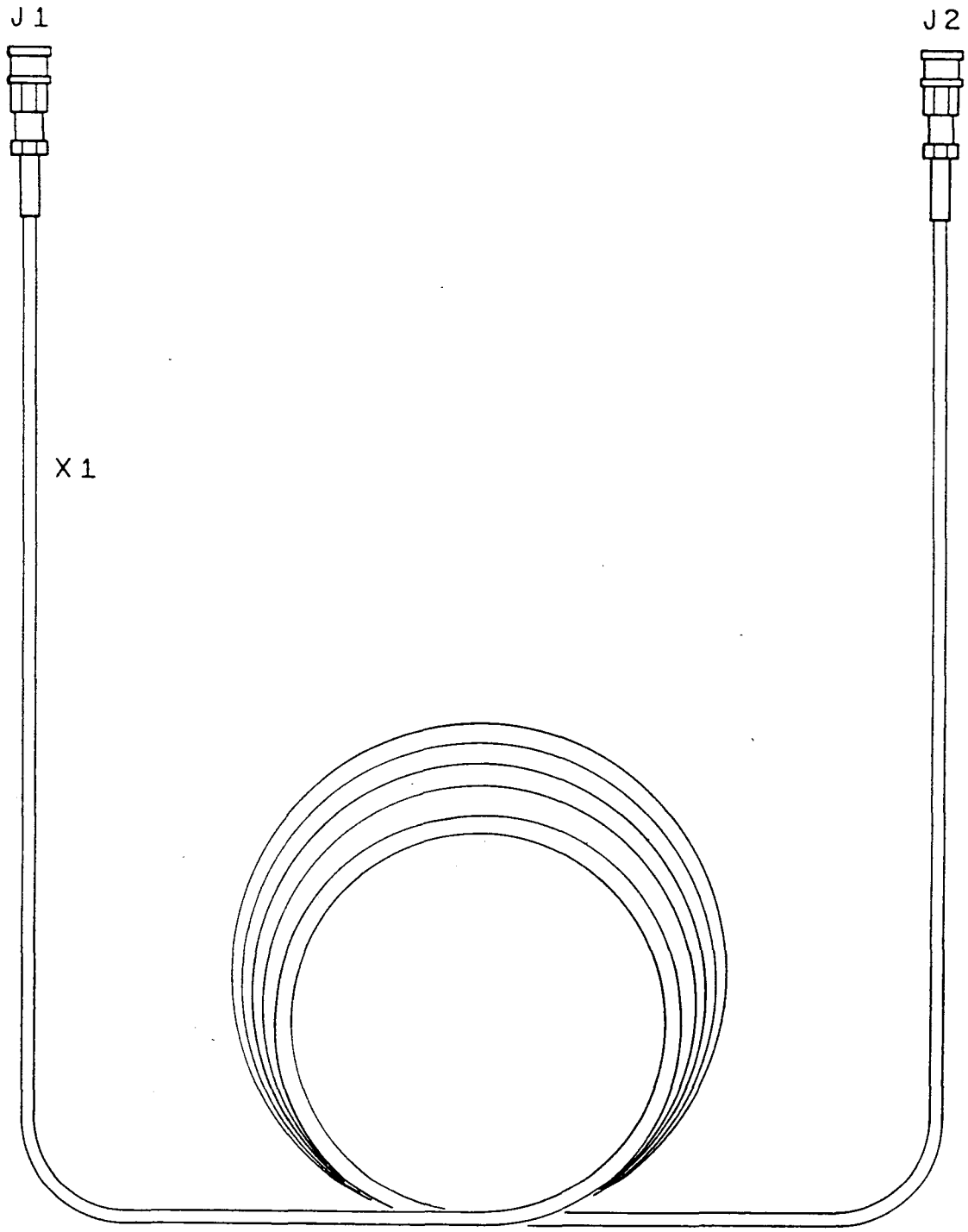
ITEM/ SYMBOL	JcAIR P/N	DESCRIPTION	U/M	QTY	MFG	MFG'S P/N
1	45002-33105	CONNECTOR BNC MALE RG188 CRIMP	EA	1.00	AMP INC.	2-330061-1
2	45002-51024	CONNECTOR SMB SNAP ON PLUG RG188 CRIMP	EA	1.00	AMPHENOL	131-1403-001
					RADIAL	R114-075-134
					SEALECTRO-BICC	51-024-0000-220
REFO	53A-729	CABLE ADAPTER BNC MALE TO SMB SNAP-ON	EA	-		

JcAIR INC.

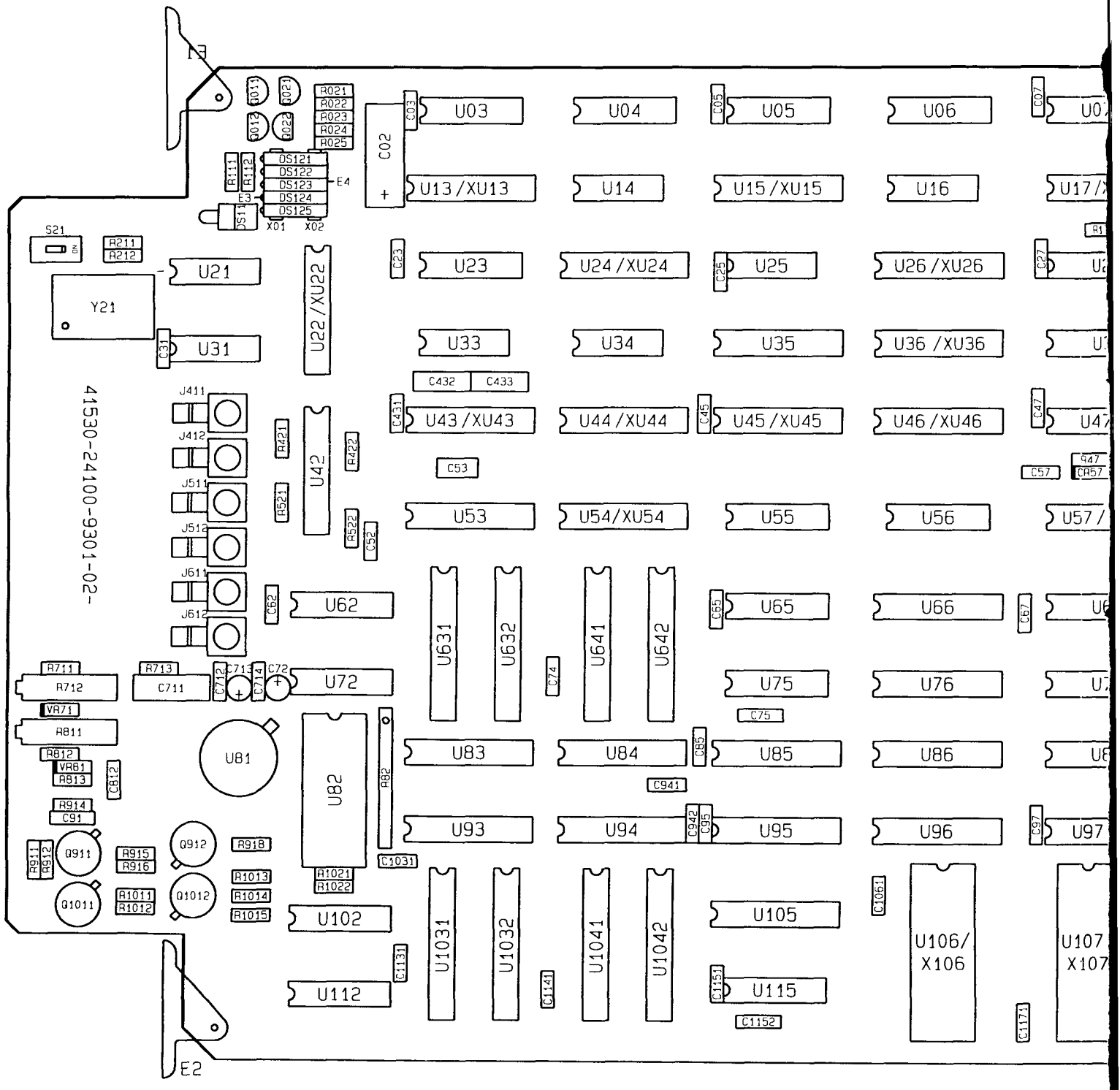
NAME: CABLE 10 FT LENGTH ASSY NO: 53A-729-10

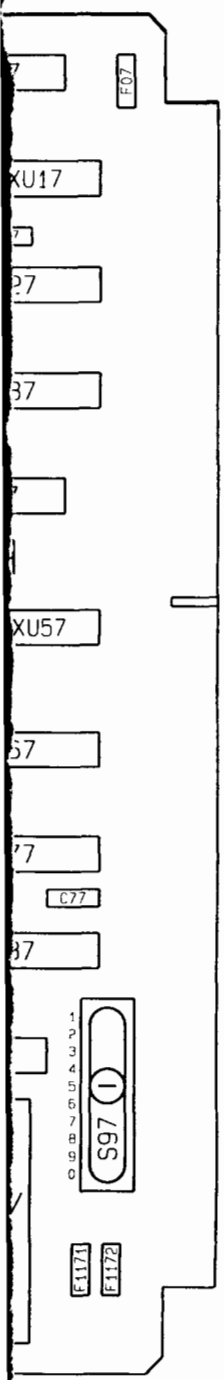
REVISION: 00 DATE: 11/03/1995

ITEM/ SYMBOL	JcAIR P/N	DESCRIPTION	U/M	QTY	MFG	MFG'S P/N
1	46000-00023	CABLE 50 OHM COAX RG188	FT	10.00	ALPHA WIRE CORP	9188A
REF0	53A-729-10	CABLE 10 FT LENGTH	EA	-		



53A - 729
ADAPTER CABLE


41530-24100-9301-02-
U03
U04
U05
U06
U13/XU13
U14
U15/XU15
U16
U21
U22/XU22
U23
U24/XU24
U25
U26/XU26
Y21
U31
U33
U34
U35
U36/XU36
U42
U43/XU43
U44/XU44
U45/XU45
U46/XU46
U53
U54/XU54
U55
U56
U62
U631
U632
U641
U642
U65
U66
U72
U75
U76
U81
U82
U83
U84
U85
U86
U93
U94
U95
U96
U97
U102
U1031
U1032
U1041
U1042
U105
U106/X106
U107/X107
U112
U115
E2



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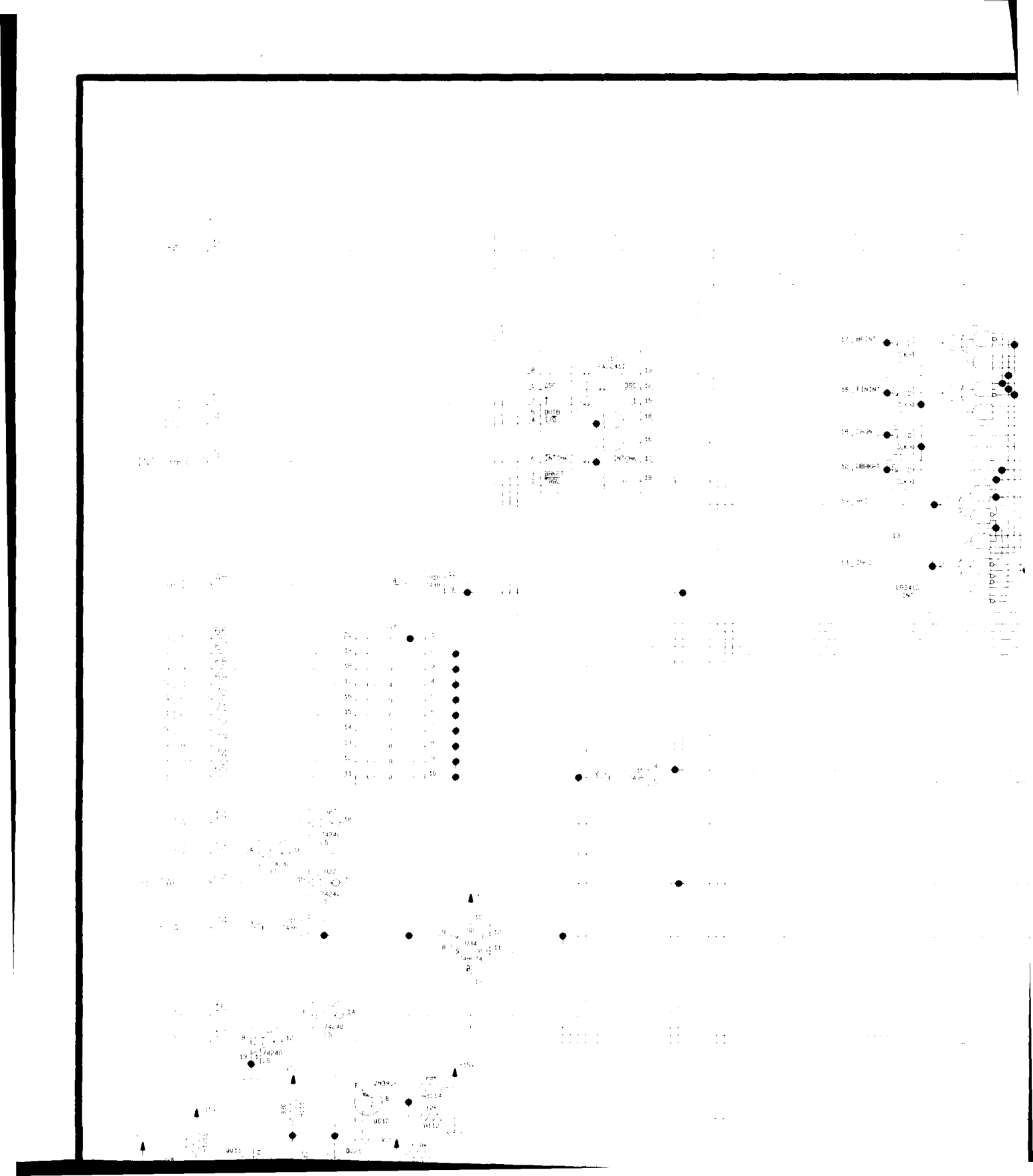
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ISSUED	

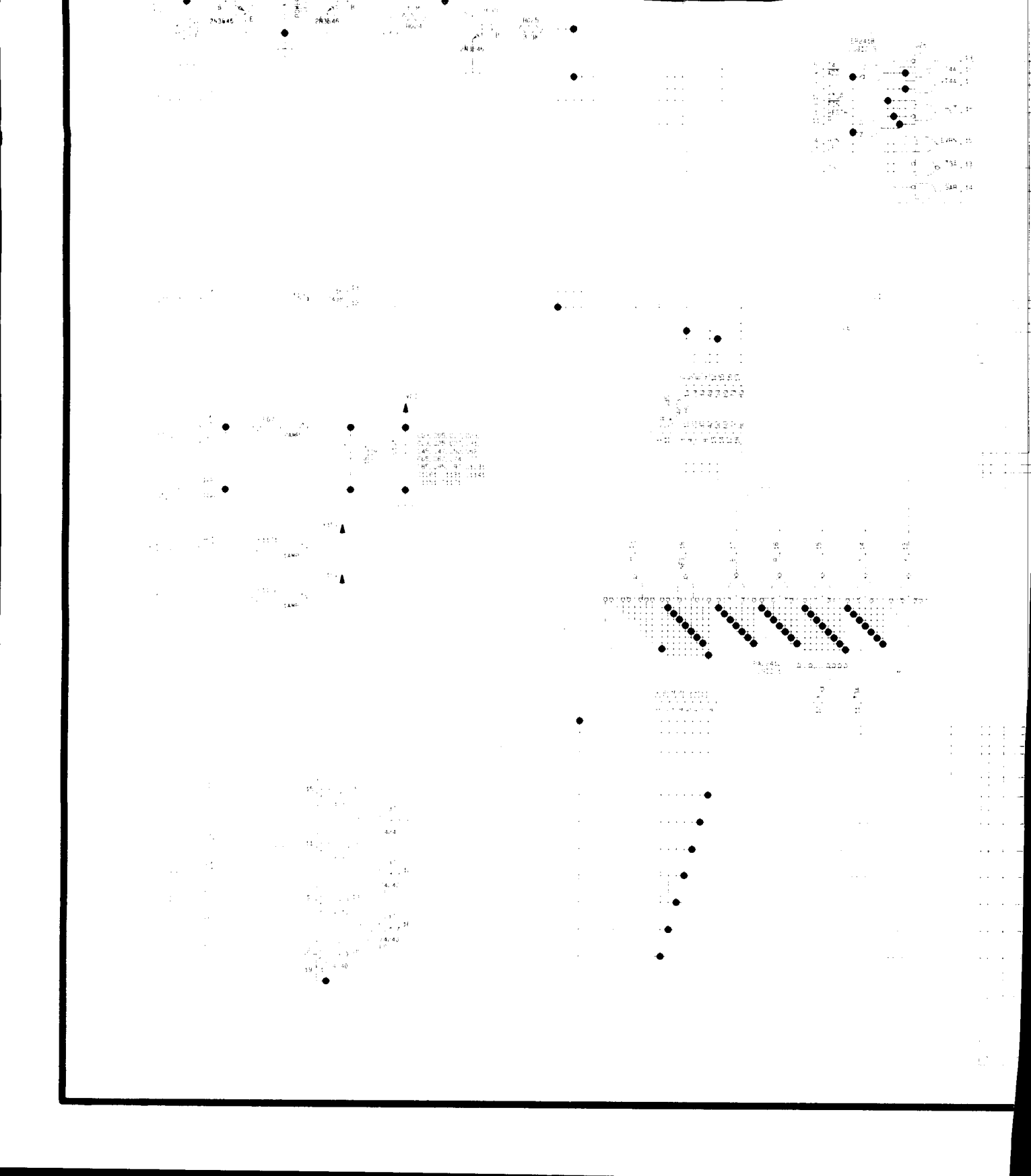
JcAIR INC.
400 INDUSTRIAL PARKWAY
INDUSTRIAL AIRPORT, KS USA 66031

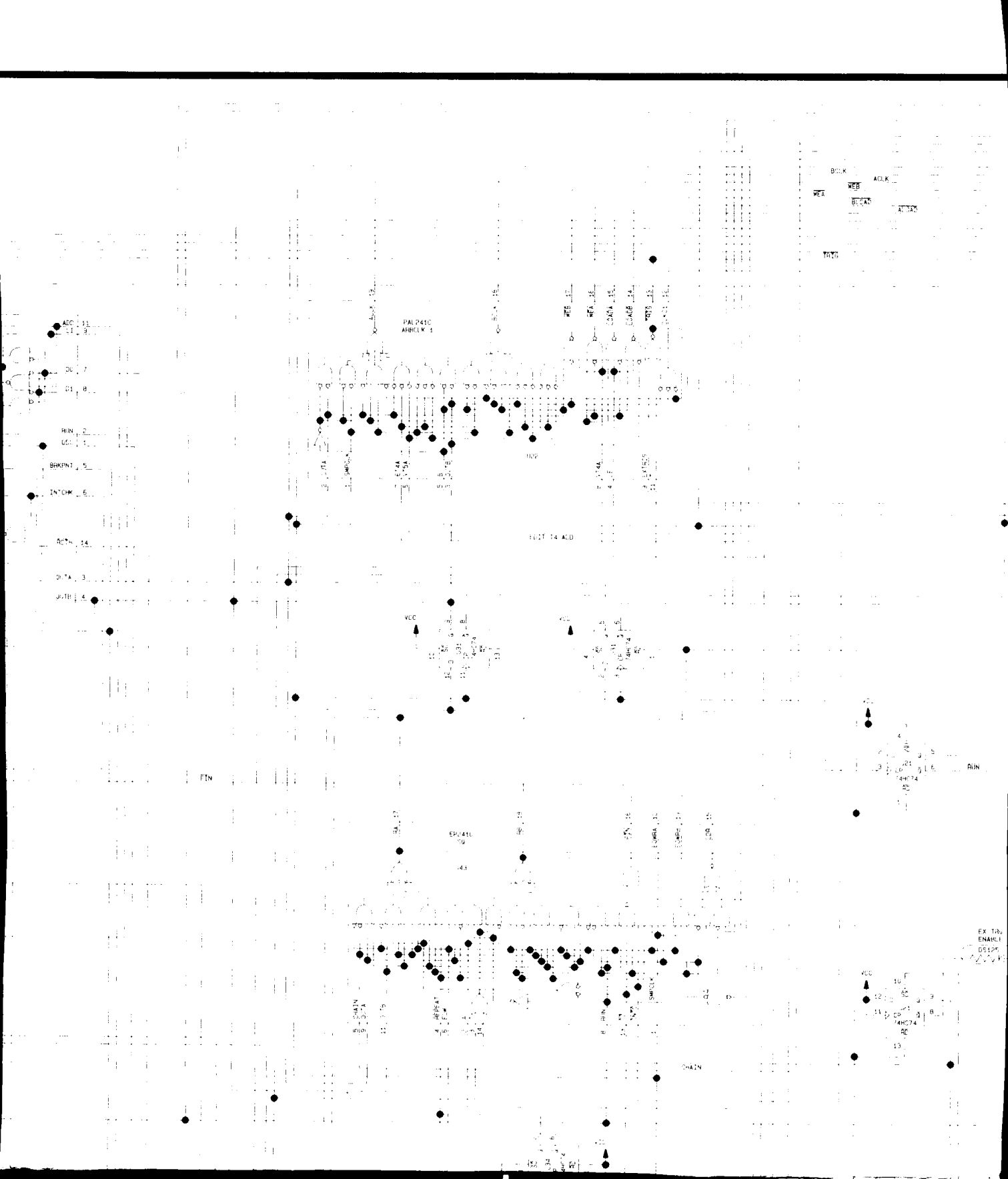
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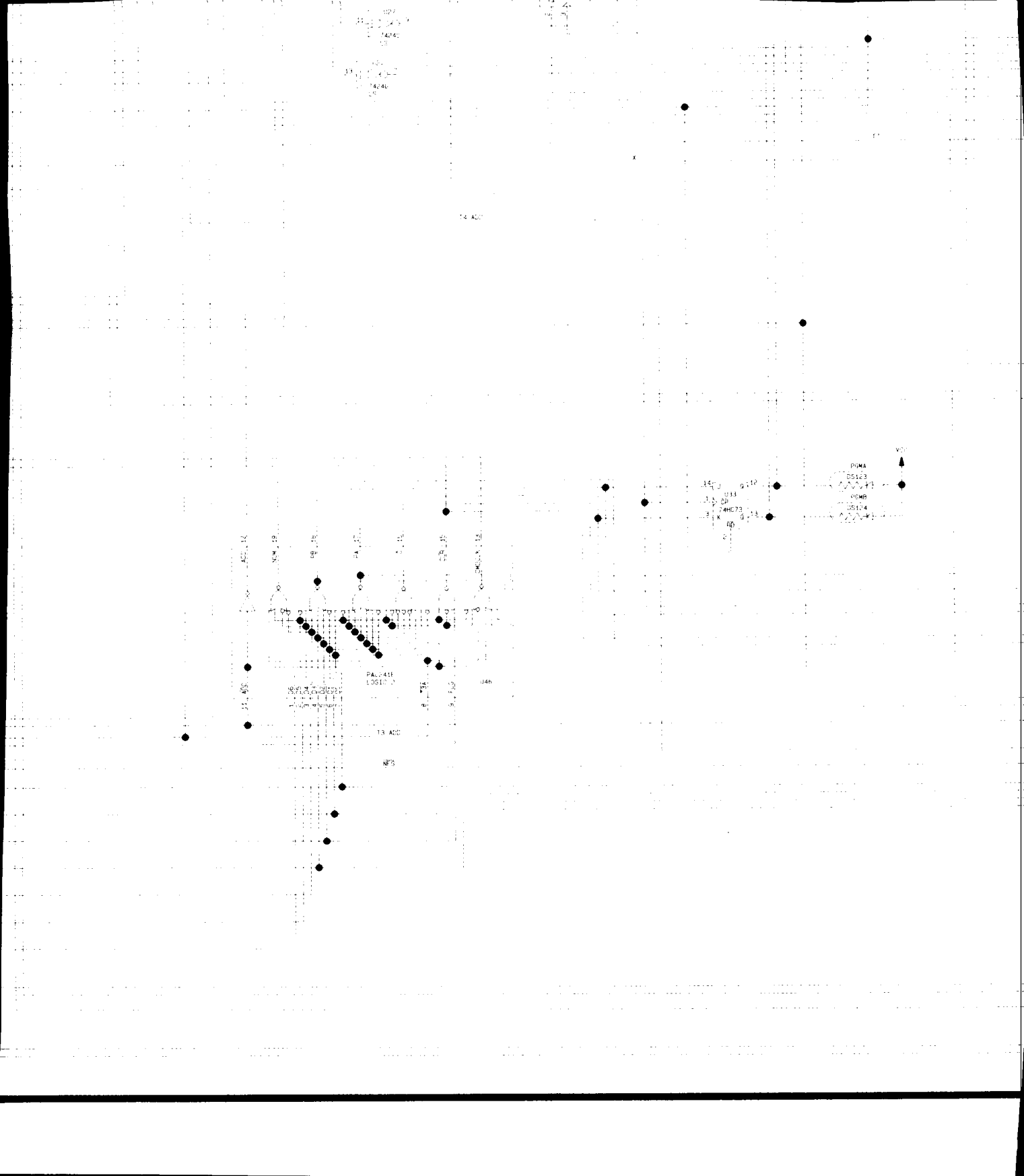
SIZE	FSCM NO.	DWG. NO.	REV.
B	41364	41530-24100 ASSY	9301

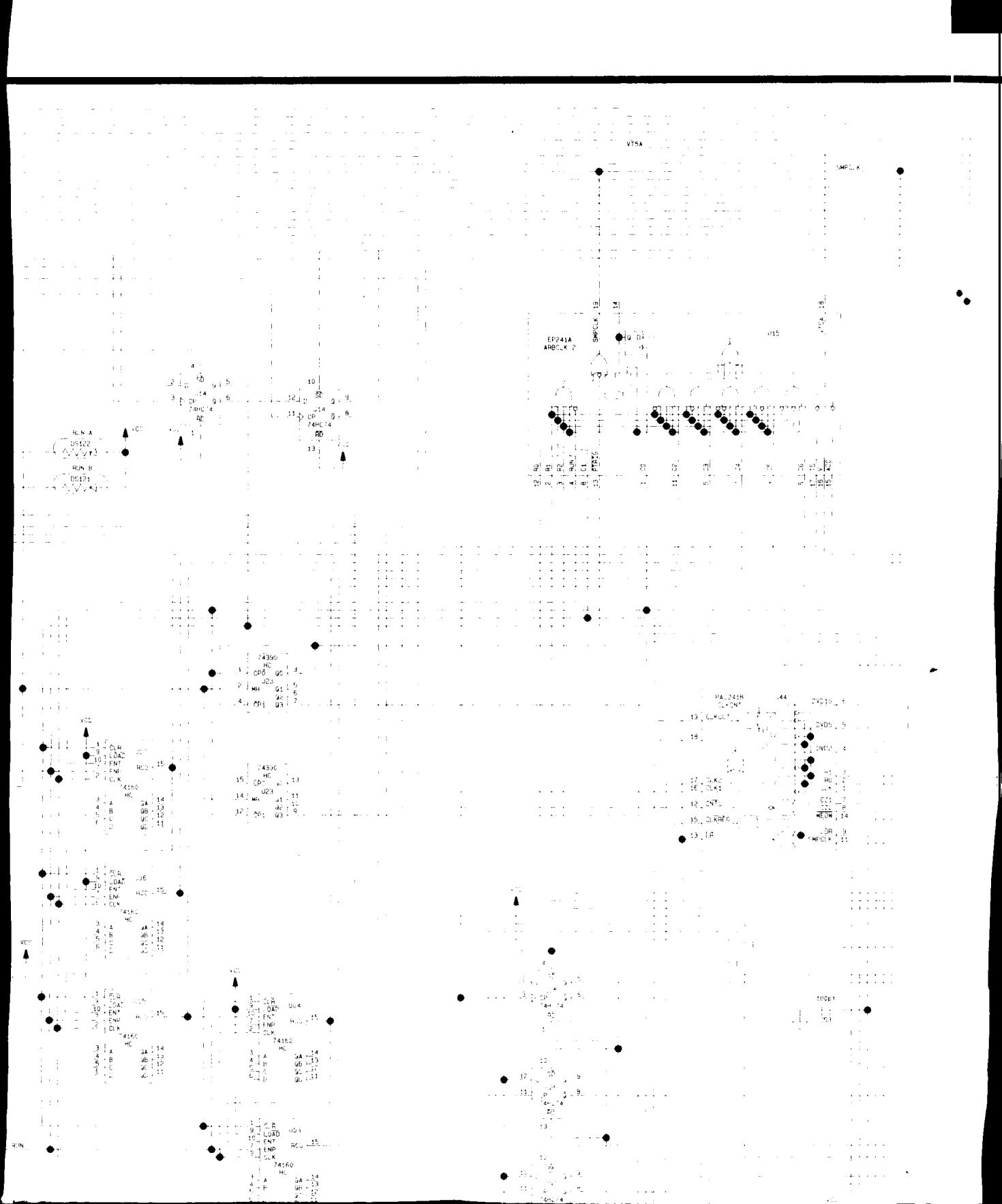
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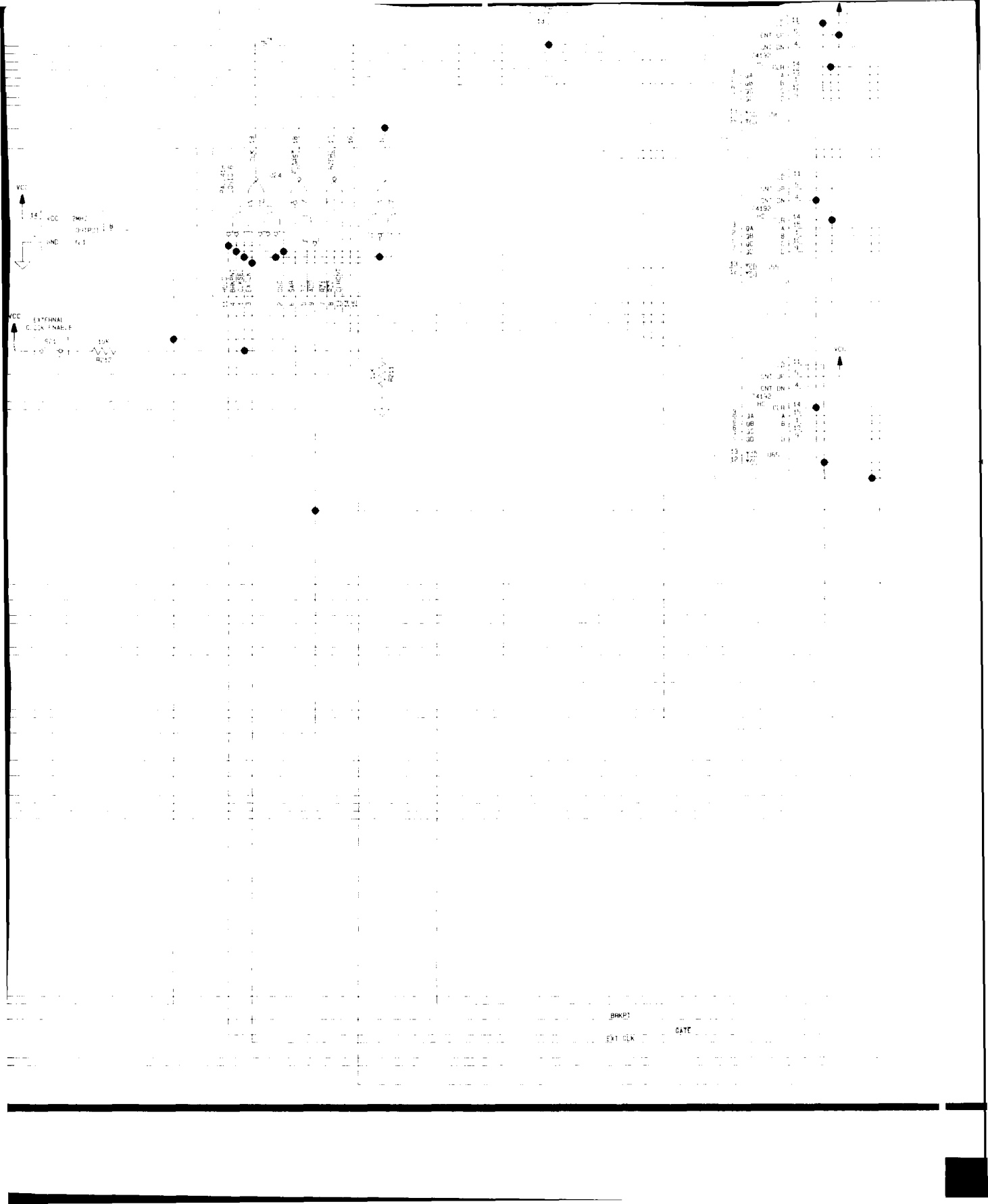


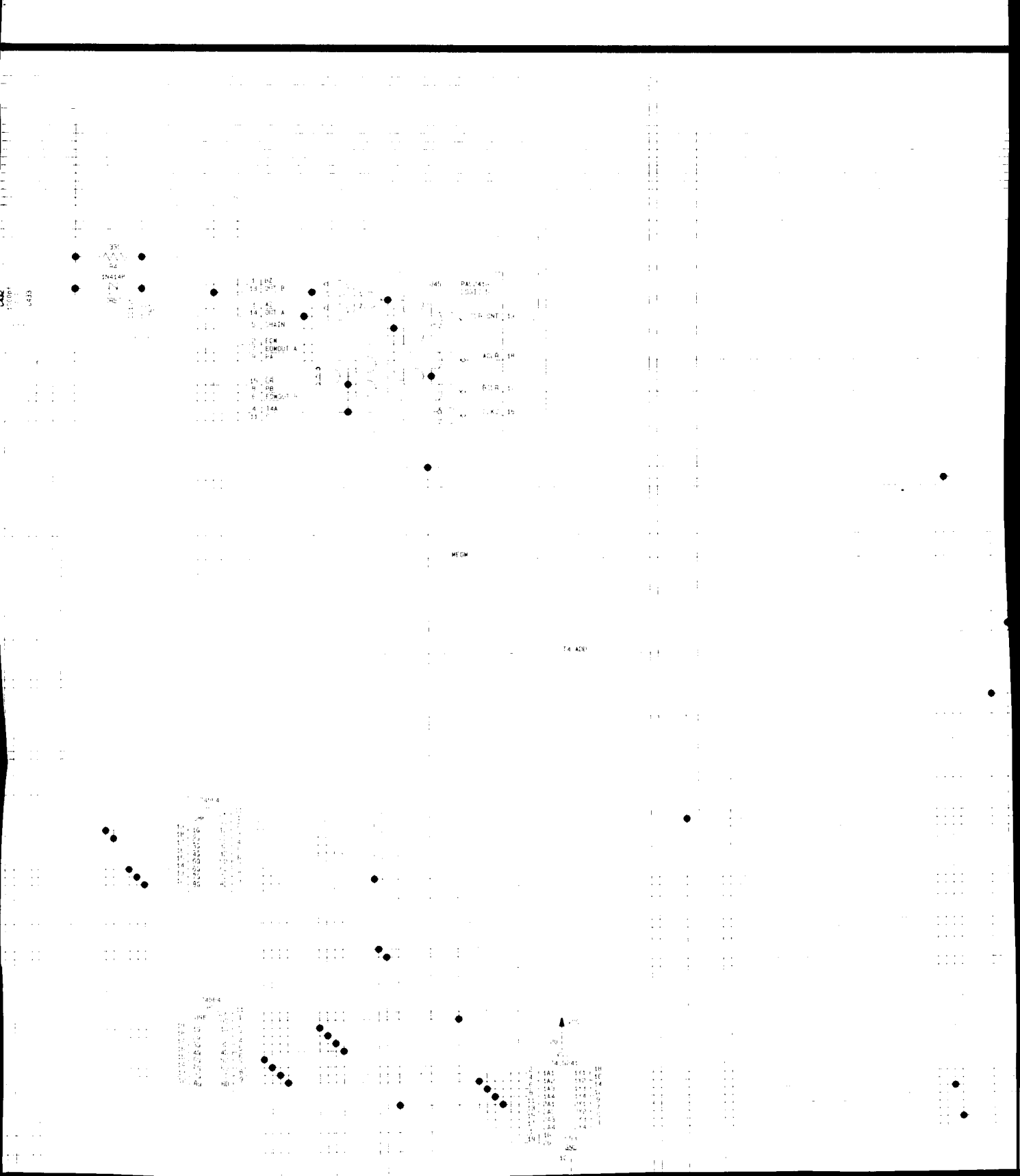


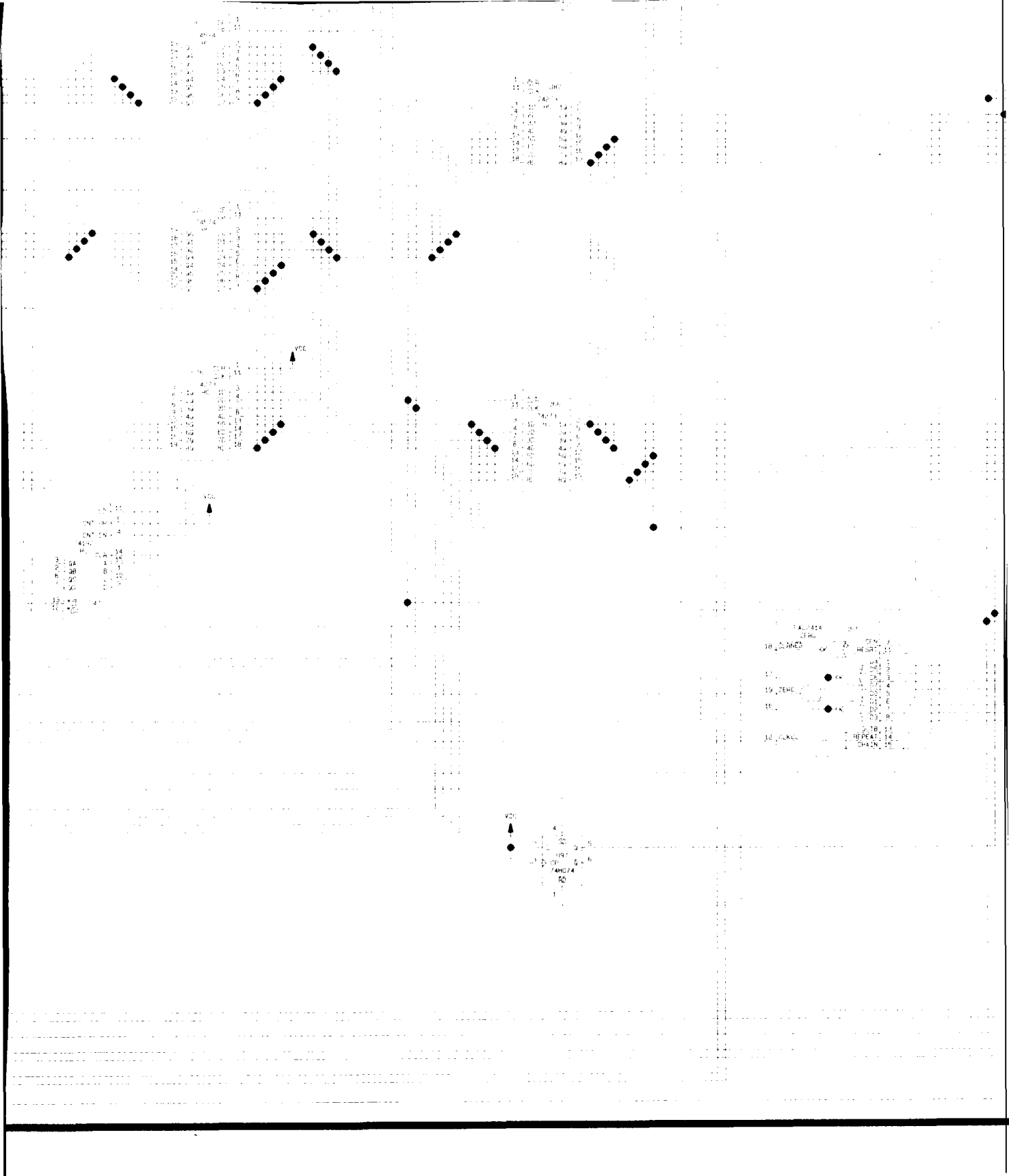


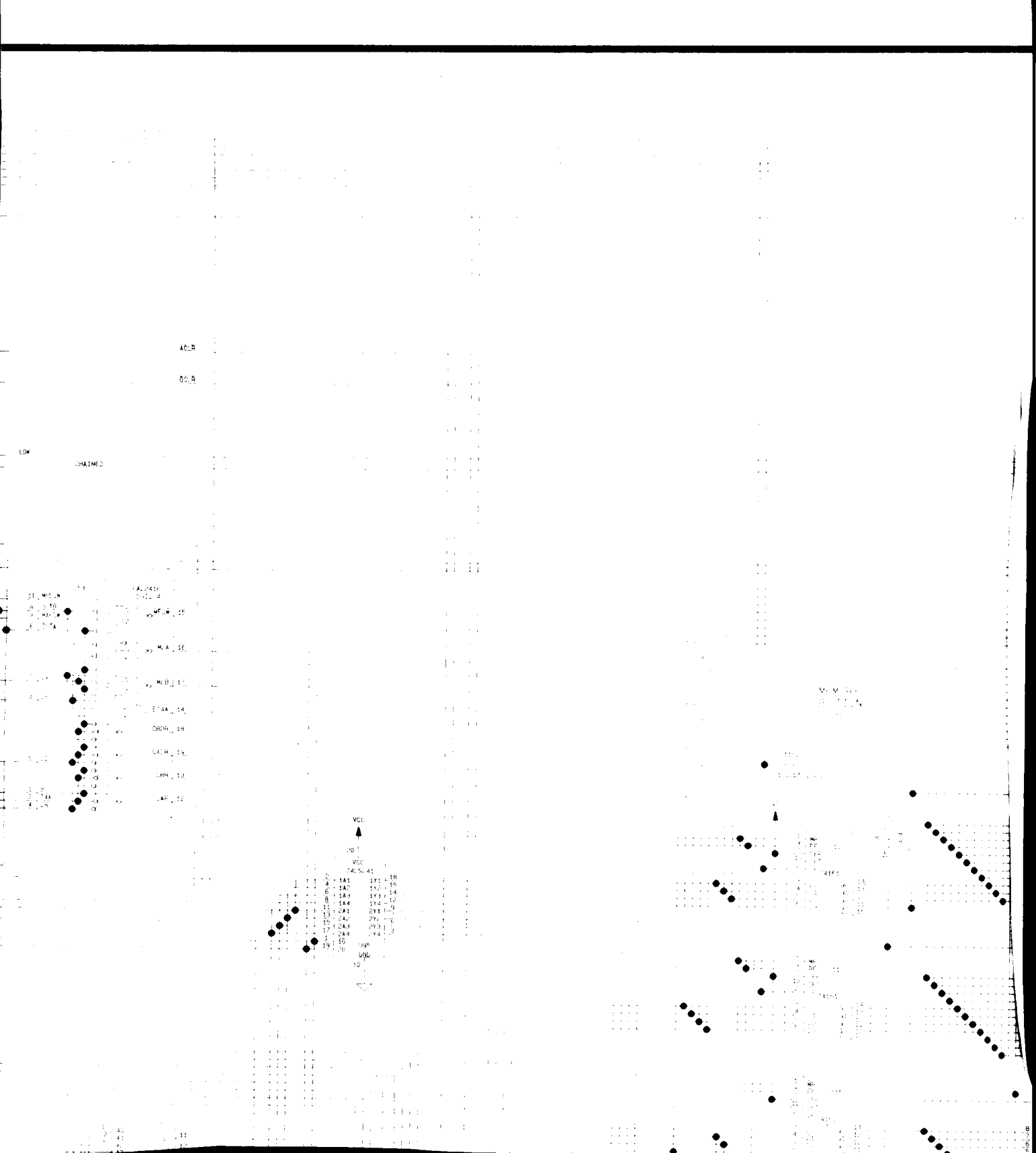

74HC74
74HC74
74 ACC
PALC41R
LOGIC
U46
13 ACC
NP3
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PIMA
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PIMB
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VCC

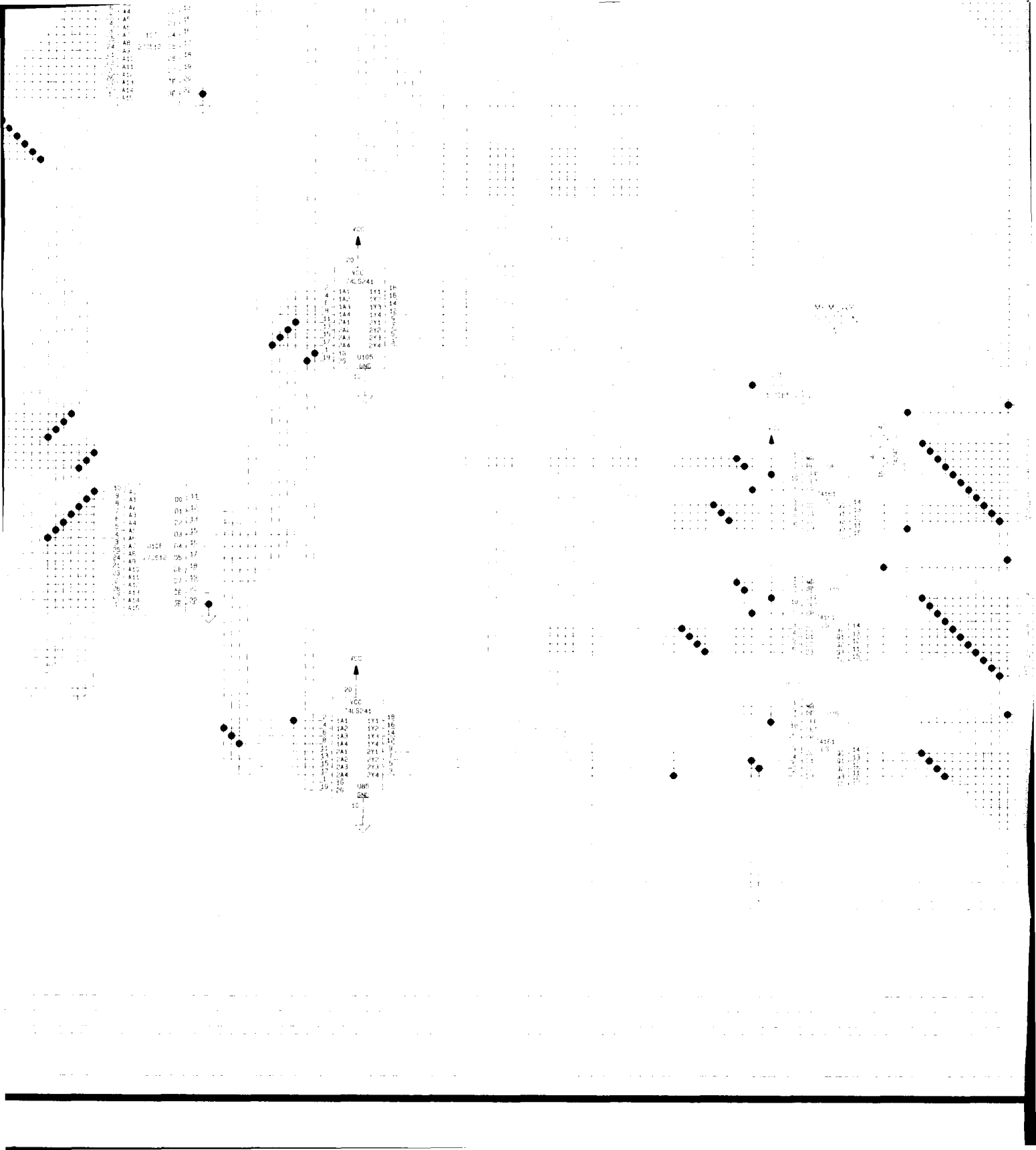


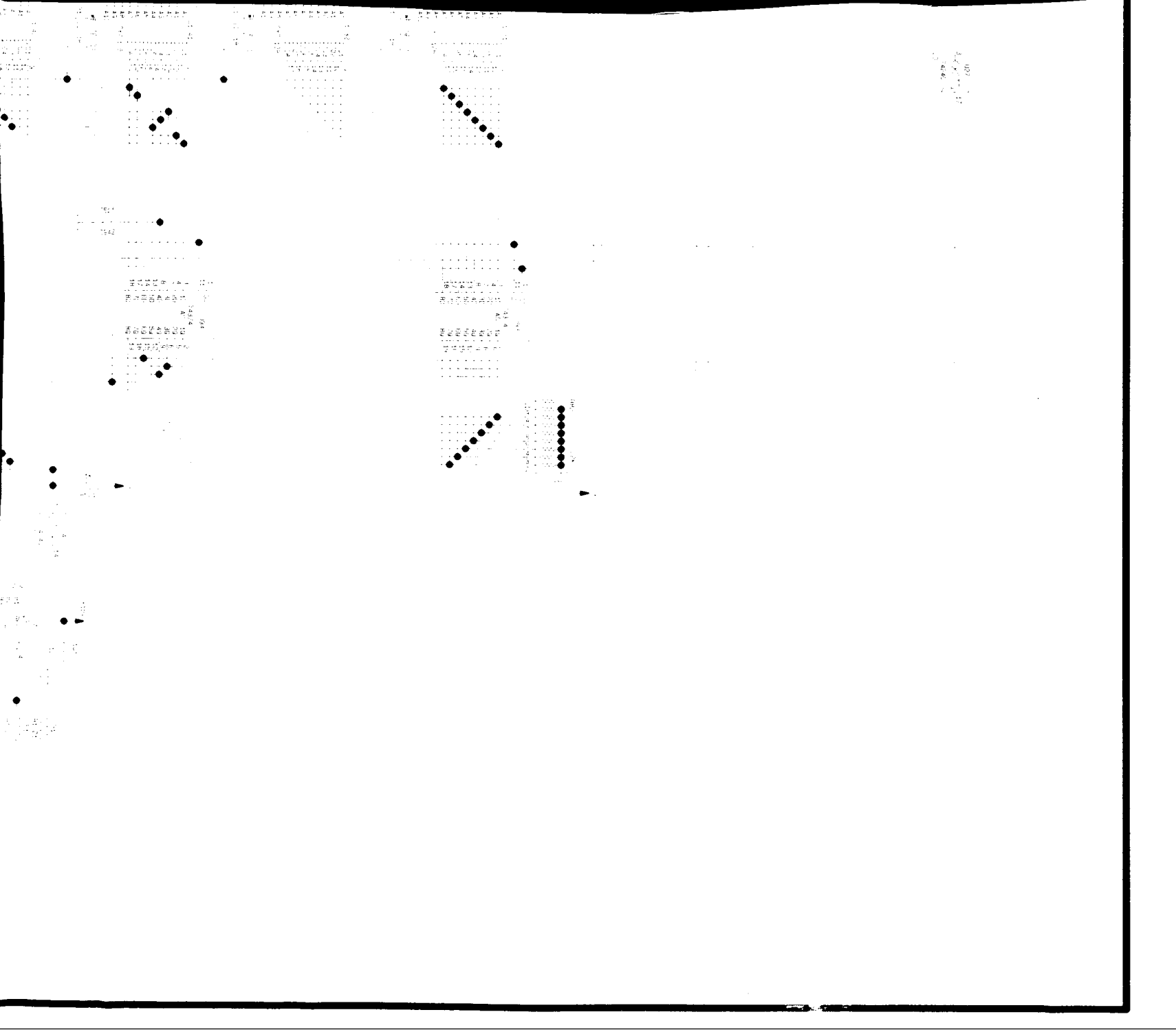

VCC
EXTERNAL
CLOCK ENABLE
10K
RL15
BRKPT
EXT CLK
GATE

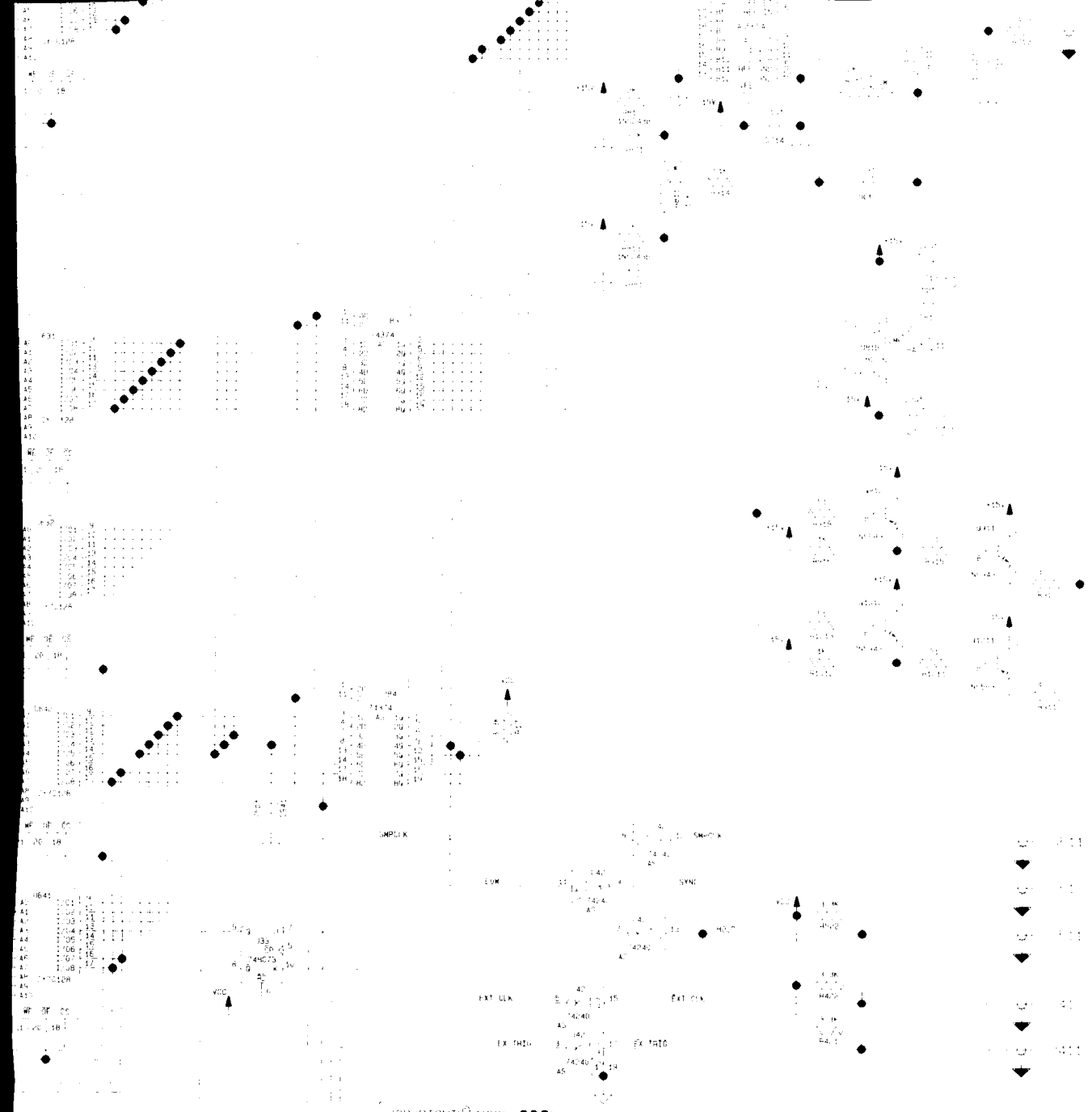





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LOW
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VCC
GND







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REVISION LEVEL	ECO#
9103-02-A	1898
9110-02-B	1863
9110-02-C	1904
9110-02-D	2071
9301-02-A	2226

REVISION LEVEL	ECO#
8904-01-A	1856/E8
8904-01-B	4502
8904-01-C	5620
8805-01-A	6210
8805-01-B	6271
8805-01-B	7485
8805-02-D	8983
8805-02-E	1526

COLORADO DATA SYSTEMS

PART NO

DESCRIPTION

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