

Catalog No. 1809622-05
Issued: March 1985

ADO
AMPEX DIGITAL OPTICS
VOLUME 1

PARTS LISTS AND SCHEMATICS

NOTICE

This manual has been revised to conform to current documentation. Pages containing revised material have the same catalog number suffix. (-05) as the title pages. Pages left unchanged from previous editions of this manual have suffixes lower than (-04) the current catalog number.

AMPEX CORPORATION
AUDIO-VIDEO SYSTEMS DIVISION

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INTRODUCTION

This manual contains parts lists and schematics for the ADO, Ampex Digital Optics, Ampex Assembly Number 1420200. This manual reflects the ADO 5.1 upgrade information.

Four indexes list the assemblies and schematics as follows:

- o **Indentured List of Assemblies** — List of assemblies in sequence of appearance in the manual.
- o **Numerical List of Assemblies** — List of assemblies in numeric sequence.
- o **Numerical List of Schematics** — List of schematics in numeric sequence.
- o **List of Schematics by PWA Number** — List of schematics in PWA number sequence.

RELATED DOCUMENTS

Catalog No.	Title
1809538-04	Product Description
1809551-03	Operators Guide
1809550-04	Service Manual

ORDERING INFORMATION

This manual is one of two manuals containing parts lists and schematics for the ADO, Ampex Digital Optics.

To order individual additional manuals, use the following catalog numbers:

**1809622 ADO Parts Lists and Schematics,
VOLUME 1**

**1809623 ADO Parts Lists and Schematics,
VOLUME 2**

If a complete set of manuals (Volumes 1 and 2) is to be ordered, use Catalog Number 1809621.

Note: This issue of the manual reflects the documentation as of 11 January 1985.

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





















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3	Input Reference PWA, PAL	1464228	3-93
4	D/A Converter PWA	1420426	3-107
5	Video Output Processor PWA, PAL	1464234	3-127
5	Video Output Processor PWA, NTSC	1464551	3-117
6	Output Reference PWA, NTSC	1420371	3-137
6	Output Reference PWA, PAL	1464231	3-145
7, 18	Color Processor PWA	1464300	3-210
8, 19	Chroma/Key Memory PWA	1464261	3-231
9, 20	Coefficient Store PWA	1420028	3-249
10, 24	Interpolator PWA	1420019	3-258
11	Vertical Processor PWA	1420031	3-271

VOLUME 2

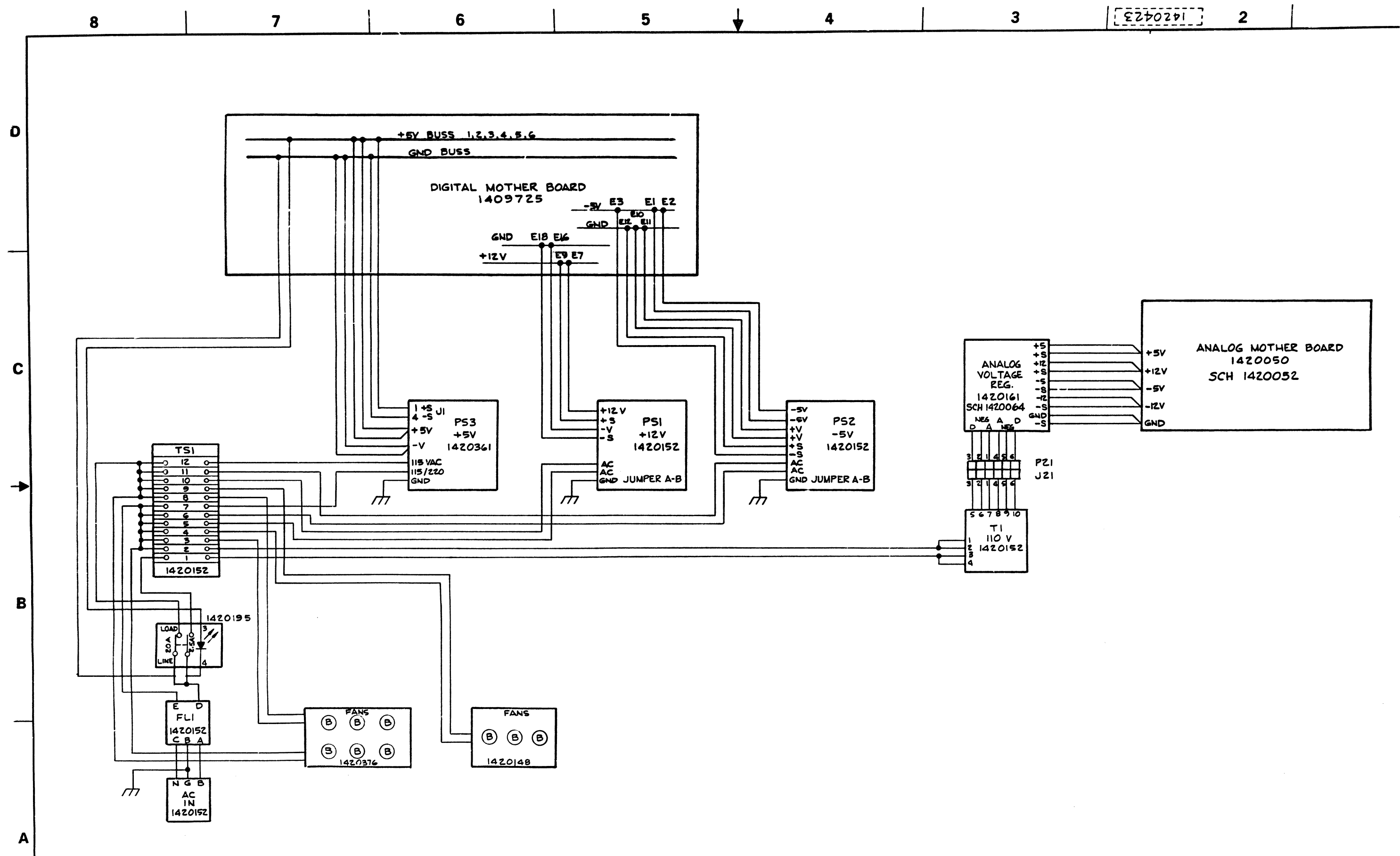
12, 23	Key Processor PWA	1464638	3-287
13, 24	Address Generator II PWA	1420037	3-305
14, 25	Address Generator I PWA	1420081	3-323
15	Output Control PWA	1464635	3-337
22	Horizontal Processor PWA, PAL	1464303	3-355
26	Low Level Controller PWA	1464285	3-371
27	High Level Controller PWA	1464288	3-393

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-00																
1	1420201-10	BASIC CHANNEL ASSEMBLY		1																
2																				
3	1420501-06	120V LINE VOLTAGE KIT		1																
4	1420502-04	230V LINE VOLTAGE KIT																		
5																				
6	1420503-07	NTSC KIT		1																
7	1420504-08	PAL KIT																		
8	1420505-01	PAL-M KIT																		
9																				
10	1464977-01	NTSC INPUT CONTROL KIT		-																
11	1464978-01	NTSC IVP KIT		-																
12																				
13	1465053-01	PAL INPUT CONTROL KIT		-																
14	1465054-01	PAL IVP KIT		-																
15																				
16	1464979-01	NTSC A/D CONVERTER KIT		1																
17	1464980-01	NTSC DIGI-MATTE KIT	 																	
18				1																
19	1465055-01	PAL A/D CONVERTER KIT																		
20	1465056-01	PAL DIGI-MATTE KIT	 																	
21																				
22	1420428-04	BASIC SIZE KIT		1																
23	1420204-04	ROTATION OPTION	 	1																
24	1420205-04	PERSPECTIVE WITH ROTATION																		
25																				
26	1464539-02	SINGLE CHANNEL KIT, 5.0		1																
27	1464540-02	MULTI-CHANNEL KIT, 5.0																		
28																				
29	1465091-02	120V CONTROL UNIT ASSEMBLY	 	1																
30	1465094-02	230V CONTROL UNIT ASSEMBLY																		
31	1420481-01	LENS, PLAIN		1																
32																				
33	1420203-02	FLOPPY DISC OPTION KIT	 	1																
34																				
35	1420458-01	PWA, DIGITAL TEST SIGNAL GENERATOR, NTSC		1																
36	1464371-02	PWA, DIGITAL TEST SIGNAL GENERATOR, PAL		1																
37	1464378-01	PWA, DIGITAL TEST SIGNAL GENERATOR, PAL-M		1																

LM-1420200

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
				-01	-02	-03	-04	-05	-06	-07	-08	-09	-10	
1	1420017-03	PWA, INTERPOLATOR	REF: XA10,21	2	2	2	2	2	2	2	2	2	2	2
2	1420020-04	PWA, INPUT CONTROL	REF: XA1	1		1	-	-	-	-	-	-	-	-
3	1420023-04	PWA, COLOR PROCESSOR	REF: XA7,18	2	2	2	-	-	-	-	-	-	-	-
4	1420026-02	PWA, COEFF STORE	REF: XA9,20	2	2	2	2	2	2	2	2	2	2	2
5	1420029-02	PWA, V PROCESSOR	REF: XA11	1		1	1	1	1	1	1	1	1	1
6	1420032-04	PWA, H PROCESSOR	REF: XA22	1		1	-	-	-	-	-	-	-	-
7	1420038-01	PWA, CHROMA/KEY MEMORY	REF: XA8,19	2	2	-	-	-	-	-	-	-	-	-
8	1420041-03	PWA, KEY PROCESSOR	REF: XA12,23	2	2	2	2	2	2	-	-	-	-	-
9	1420123-AD	LABEL, OPTIONAL, DOOR, DIGITAL						2	2	2	2	2	2	2
10	1420123-AE	LABEL, OPTIONAL, DOOR, DIGITAL						2	2	2	2	2	2	2
11	1420053-04	PWA, OUTPUT CONTROL	REF: XA15	1		1	-	-	-	-	-	-	-	-
12	1420056-04	PWA, LOW LEVEL CONTROLLER	REF: XA26	1		1	-	-	-	-	-	-	-	-
13	1420059-04	PWA, HIGH LEVEL CONTROLLER	REF: XA27	1		1	-	-	-	-	-	-	-	-
14	1420065-01	PWA, D/A CONVERTER	REF: XA4	1		-	-	-	-	-	-	-	-	-
15	1420068-01	PWA, A/D CONVERTER	REF: XA1	1		-	-	-	-	-	-	-	-	-
16	1420071-01	PWA, VIDEO OUTPUT PROCESSOR	REF: XA5	1		-	-	-	-	-	-	-	-	-
17	1420075-01	PWA, INPUT REFERENCE	REF: XA3	1		-	-	-	-	-	-	-	-	-
18	1420124-01	PWA, COMB FILTER	REF: XA2	1		-	-	-	-	-	-	-	-	-
19	1420128-03	PWA, Y MEMORY	REF: 17 XA2-6,16,	7	7	7	-	-	-	-	-	-	-	-
20	1420132-01	HOUSING ASSEMBLY												
21	1420177-01	MISCELLANEOUS PARTS KIT												
22	1420369-01	PWA, OUTPUT REFERENCE	REF: XA6	1		-	-	-	-	-	-	-	-	-
23	1420423	WIRING DIAGRAM, NTSC AC & DC INTERCONNECT		(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(-)
24	1420177-02	MISCELLANEOUS PARTS KIT												
25	1420132-02	HOUSING ASSEMBLY												
26	6000017-30	NAMEPLATE, IDENTIFICATION												
27	1420132-05	HOUSING ASSEMBLY												
28	1420424-06	PWA, D/A CONVERTER	REF: XA4											
29	1464262-01	PWA, Y MEMORY	REF: XA2-6,16,17											
30	1464265-03	PWA, HIGH LEVEL CONTROLLER	REF: XA27											
31	1464366-01	HOUSING ASSEMBLY, NTSC-PAL												
32	1464366-02	HOUSING ASSEMBLY, NTSC-PAL												
33	1464286-04	PWA, HIGH LEVEL CONTROLLER	REF: XA27											
34	1464283-02	PWA, LOW LEVEL CONTROLLER	REF: XA26											
35	1420035-08	PWA, ADDRESS GENERATOR 11	REF: XA13,24											
36	1420079-06	PWA, ADDRESS GENERATOR 1	REF: XA14,25											
37	1464636-01	PWA, KEY PROCESSOR	REF: XA12,23											

LM-1420201



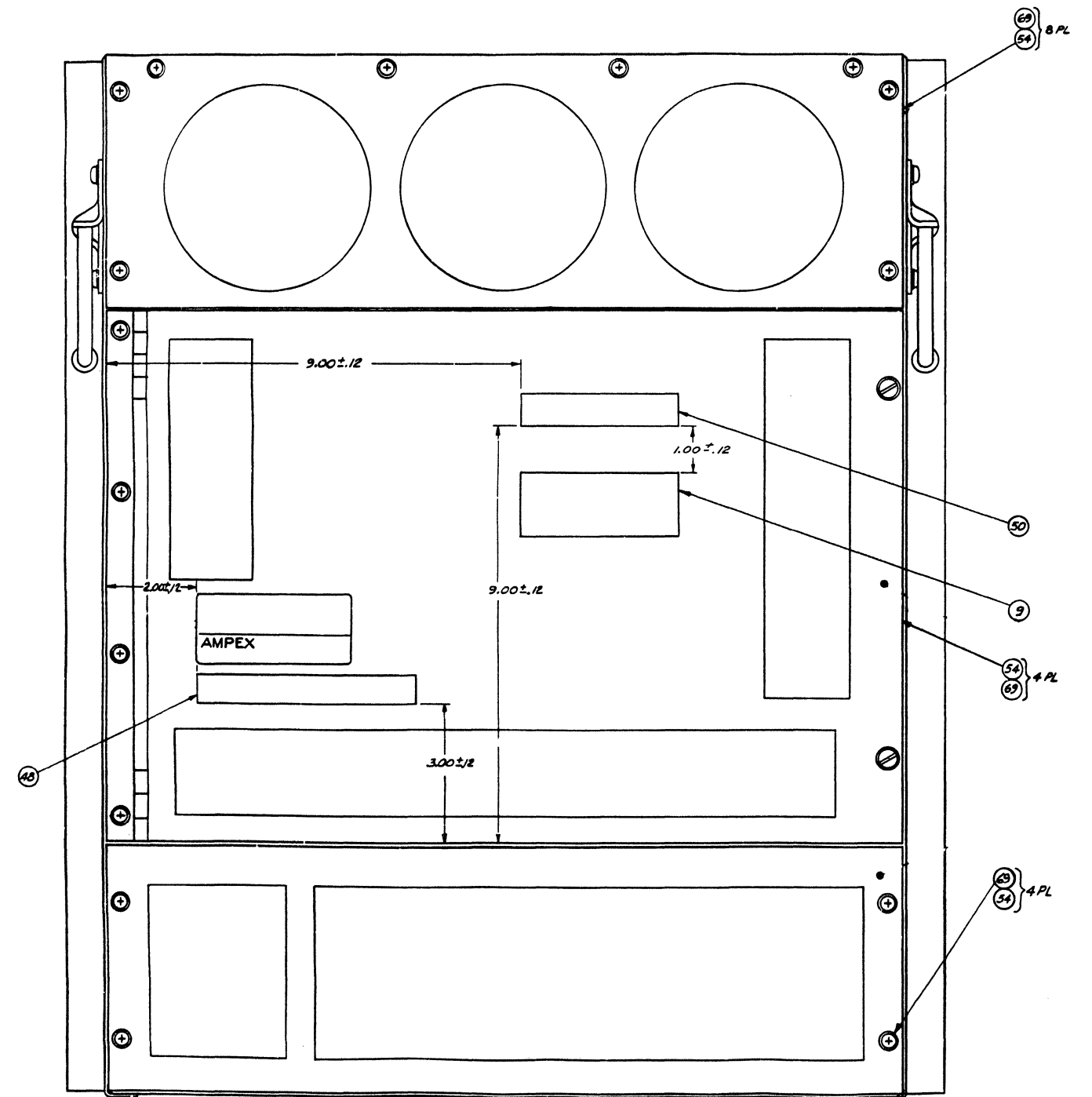
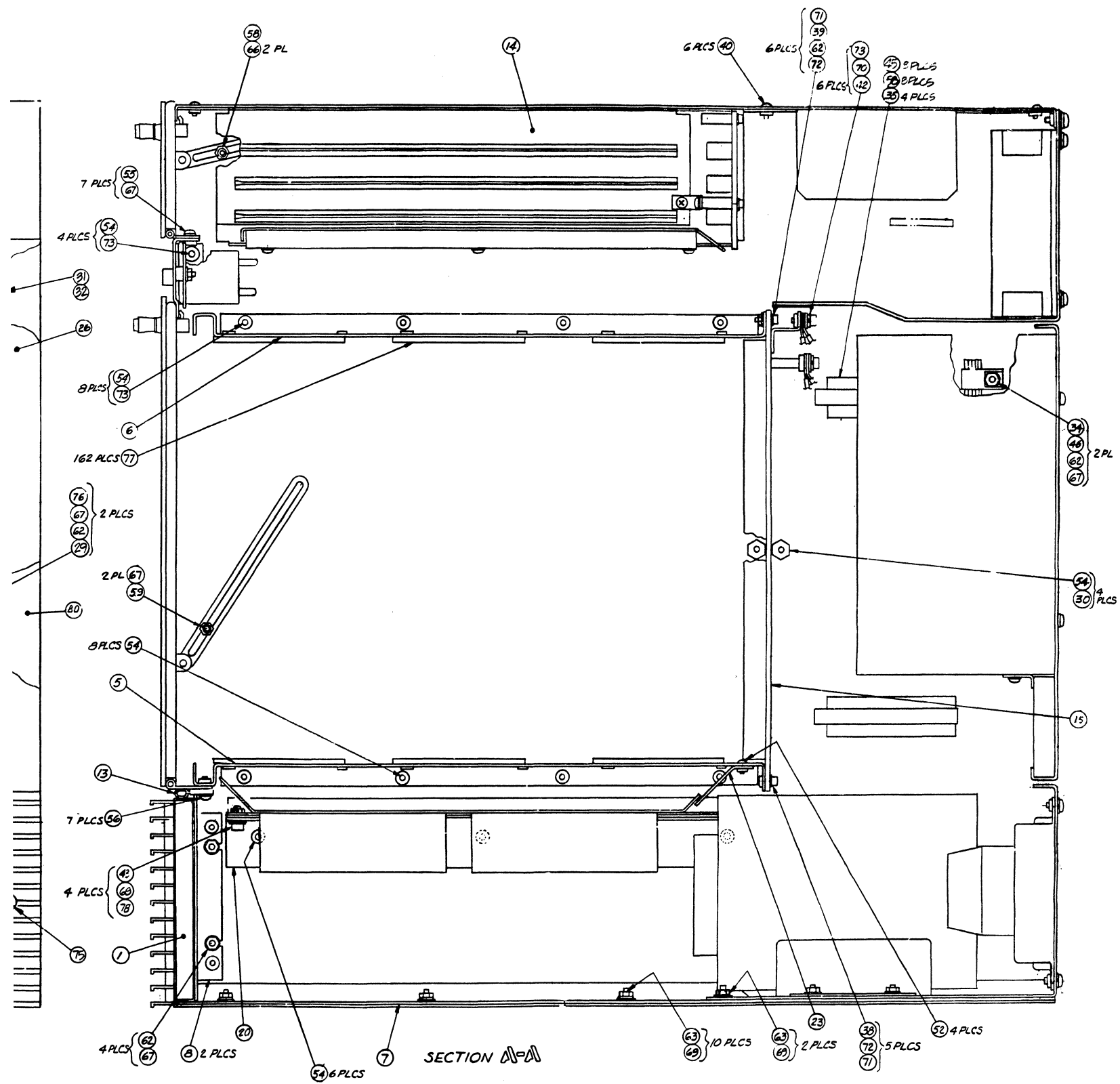
Wiring Diagram No. 1420423—
AC/DC Interconnect, NTSC

ITEM NO.	PART NUMBER	E	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER							
					-01	-02	-03	-04	-05	-06	-07	
1	1403031-AA		FILTER		1	1	1	1	1	1	1	
2	1409725-05		DIGITAL MOTHERBOARD ASSY		1	1	1	1	1	1	1	
3	1420133-AC		PANEL, SIDE		1	1	1	1	1	1	1	
4	1420133-AB		PANEL, SIDE		1	1	1	1	1	1	1	
5	1420134-AC		SUPPORT, DIGITAL CARD		1	1	1	1	1	1	1	
6	1420134-AD		SUPPORT, DIGITAL CARD		1	1	1	1	1	1	1	
7	1420135-01		PANEL, BOTTOM		1	1	1	1	1	1	1	
8	1420138-01		BRACKET, FILTER		2	2	2	2	2	2	2	
9	1464353-01		LABEL, SOFTWARE & OPTION		1	1	1	1	1	1	1	
10	1464325-01		POWER SUPPLY CHASSIS ASSY		1	1	1	1	1	1	1	
11	1464325-02		POWER SUPPLY CHASSIS ASSY		1	1	1	1	1	1	1	
12	1420154-01		ANALOG CHASSIS ASSY		1	1	1	1	1	1	1	
13	1420173-01		SHIELD, FRONT FAN BRACKET		1	1	1	1	1	1	1	
14	1420154-02		ANALOG CHASSIS ASSY.		1	1	1	1	1	1	1	
15	1409725-06		PWA, DIGITAL MOTHERBOARD ASSY		1	1	1	1	1	1	1	
16	1420217-01		CIRCUIT BREAKER PANEL ASSY		1	1	1	1	1	1	1	
17	1420247-01		GRILL, BLOWER		1	1	1	1	1	1	1	
18												
19	1420361-03		+5 VOLT POWER SUPPLY ASSY		1	1	1	1	1	1	1	
20	1465153-01		BRACKET, LOWER FAN PANEL		1	1	1	1	1	1	1	
21	1420377-AA		BRACKET, LOWER FAN PANEL		1	1	1	1	1	1	1	
22	1420377-AB		BRACKET, LOWER FAN PANEL		1	1	1	1	1	1	1	
23	1420378-01		BRACKET, AIR FLOW		1	1	1	1	1	1	1	
24	1420415-01		STRIP, AIR FLOW		1	1	1	1	1	1	1	
25	1420457		WIRING DIAGRAM: ANALOG MOTHERBOARD, DIGITAL MOTHERBOARD & CONNECTOR PANEL ASSEMBLY					8	8	8	8	
26	1420465-AA		DOOR ASSY, DIGITAL		1	1	1	1	1	1	1	
27	1420466-AA		DOOR ASSY, ANALOG		1	1	1	1	1	1	1	
28	269-292		STRIP, RUBBER, .75 WIDE, 25.25 IN LG	A/R								
29	302-105		CLAMP, CABLE, .875				2	2	2	2	2	
30	283-347		SPACER, HEX .500AF, 8-32		4	4	4	4	4	4	4	
31	302-335		CABLE STRAP, NYLON, .750 DIA. MAX.				A/R	A/R	A/R	A/R	A/R	
32	302-451		STRAP, ACCESSORY, MTG. PLATE, NYLON		1	1	1	1	1	1	1	
33	302-123		CLAMP, CABLE, .750" ID		2	2						
34	302-590		CLAMP, CABLE, TYPE H, .48 ID		2	4	2	2	2	2	2	
35	302-591		CLAMP, CABLE, FLAT CABLE		4	4	4	4	4	4	4	
36	302-379		CABLE STRAP, NYLON, 1.25 DIA. MAX.				A/R	A/R	A/R	A/R	A/R	
37	089-134		HANDLE, "U" SHAPED FOLDING		2	2	2	2	2	2	2	

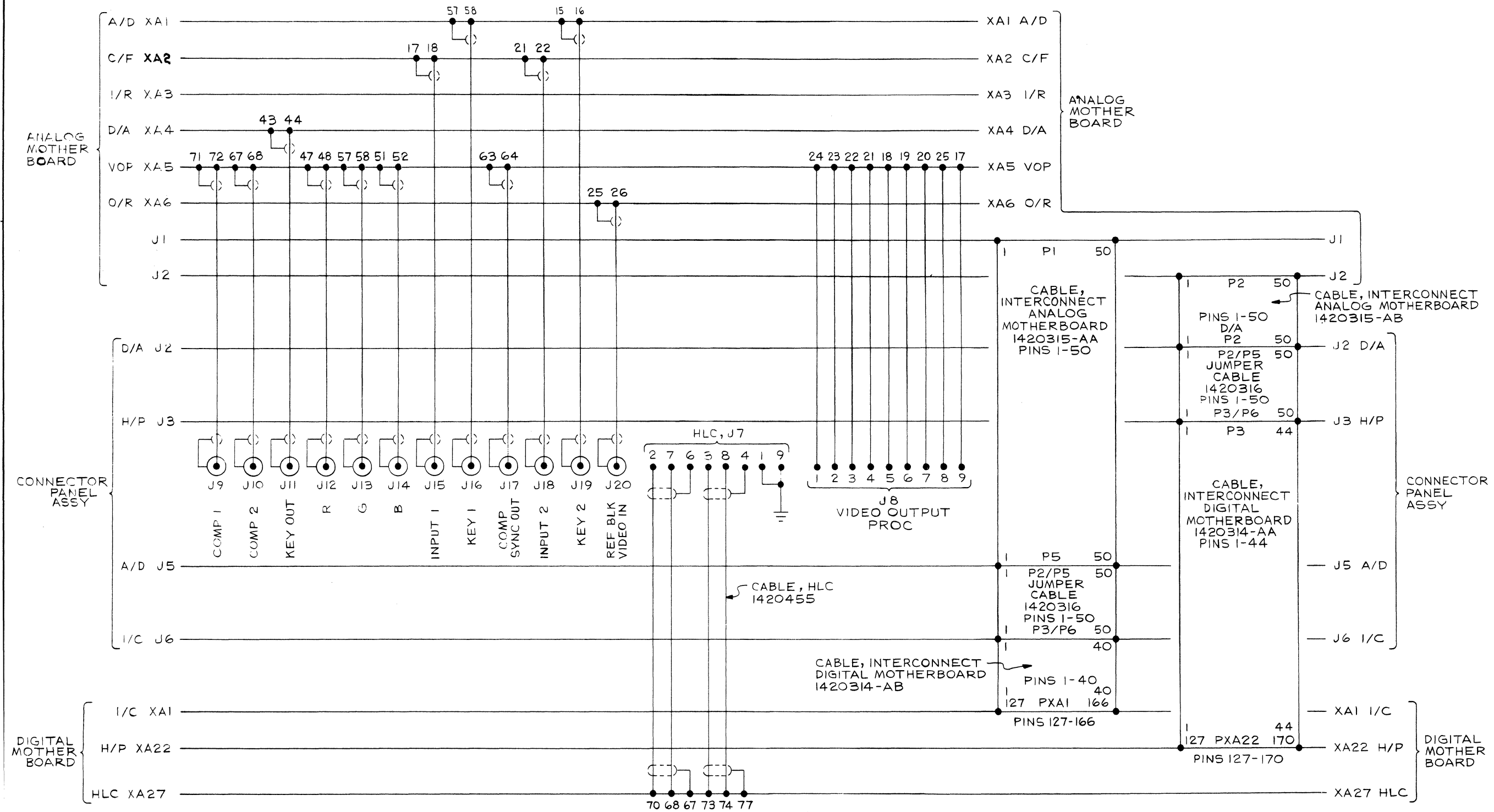
LM-1464366

AMPEX | Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1464366	SHEET 2 OF 2		L					
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER								
				-01	-02	-03	-04	-05	-06	-07		
38	470-018	SCREW, CAP., SOC HD, 6-32 X .38 LG		5	5	5	5	5	5	5		
39	470-020	SCREW, CAP., SOC HD, 6-32 X .50 LG		5	5	5	5	5	5	5		
40	470-658	SCREW, BUTTON HEAD, 8-32 X .31 LG		6	6	6	6	6	6	6		
41	470-037	SCREW, CAP., SOC HD, 10-32 X .44 LG		4	4	4	4	4	4	4		
42	470-028	SCREW, CAP, SOC, HD., 8-32 X .44 LG		4	5	5	6	6	6	6		
43	470-027	SCREW, CAP, SOC. HD., 8-32 X .38 LG									4	
44												
45	471-061	SCREW, PAN HD., #4-40 X .31 LG			8	8	8	8	8	8	8	
46	471-071	SCREW, PAN HD, 6-32 X .50 LG		6	4	4	4	4	4	4	2	
47												
48	1403328-AB	LABEL, WARNING		1	1	1	1	1	1	1	1	
49	1420429-01	LABEL, CARRYING HANDLE		2	2	2	2	2	2	2	2	
50	6000055-02	LABEL, CLASS A COMPLIANCE		1	1	1	1	1	1	1	1	
51	6000017-30	NAMEPLATE, IDENTIFICATION		1	-	-	-	-	-	-	-	
52	472-927	SCREW, BUTTON HD, 4-40 X .25 LG		4	4	4	4	4	4	4	4	
53	475-061	SCREW, SEMS, #8-32 X .50 LG			4	4	4	4	4	4	4	
54	475-044	SCREW, SEM, 8-32 X .38 LG		46	46	46	46	46	46	46	42	
55	475-058	SCREW, SEM, 6-32 X .38 LG		11	11	11	11	11	11	11	7	
56	473-331	SCREW, SEM, 6-32 X .50 LG		7	7	7	7	7	7	7	7	
57	473-928	SCREW, SEM, 10-32 X .38 LG		8	8	8	8	8	8	8	8	
58	493-005	NUT, LOCKING, 4-40		1	1	9	9	9	9	9	9	
59	493-006	NUT, LOCKING, 6-32		1	1	1	1	1	1	1	1	
60												
61												
62	496-005	NUT, KEP, 6-32		13	13	13	13	13	13	13	13	
63	496-006	NUT, KEP, 8-32		12	16	16	16	16	16	16	16	
64												
65												
66	501-008	WASHER, PLAIN #4		2	2	2	2	2	2	2	2	
67	501-009	WASHER, PLAIN #6		17	17	17	17	17	17	17	17	
68	501-070	WASHER, PLAIN #10		4	4	4	4	4	4	4	-	
69	501-205	WASHER, PLAIN #8		28	35	35	35	35	35	39	39	
70	502-004	WASHER, LOCK, #8, SPRING		4	4	4	6	6	6	6	6	
71	502-003	WASHER, LOCK, #6, SPRING		10	10	10	10	10	10	10	10	
72	501-188	WASHER, PLAIN, #6 SMALL PATTERN		10	10	10	10	10	10	10	10	
73	502-400	WASHER, PLAIN, #8 SMALL PATTERN		15	17	17	18	18	18	18	18	
74	502-016	WASHER, LOCK, #10 EXT TOOTH		4	4	4	4	4	4	4	-	
75	430-091	RETAINING RING, EXT. "E"			2	2	2	2	2	2	2	
76	506-016	WASHER, D. .50 WIDE		2	2	7	4	2	2	2	2	
77	530-324	ENCLOSURE PART, GUIDE, PC BOARD		162	152	152	162	162	162	162	62	
78	502-015	WASHER, LOCK, #8 EXT TOOTH									4	
79												
80	1420133-AF	PANEL, SIDE									1	
81	1420133-AG	PANEL, SIDE									1	

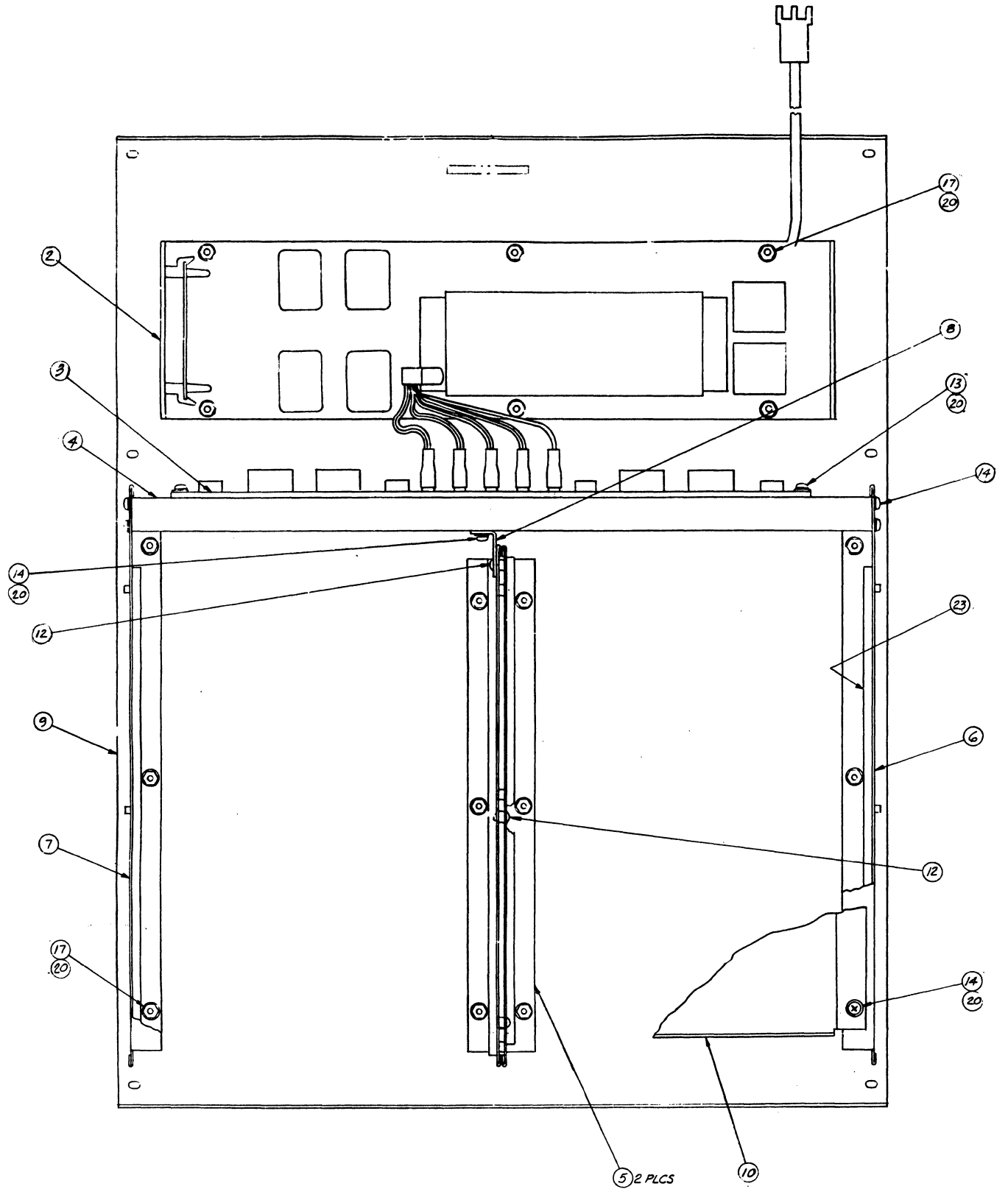
LM-1464366



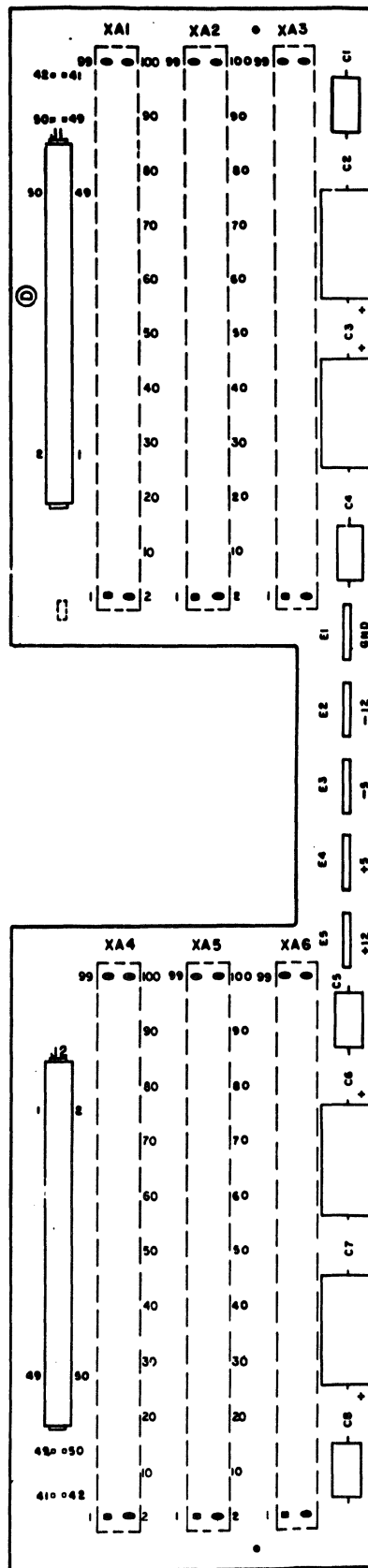
Assembly No. 1464366-07L.
Signal System Assembly



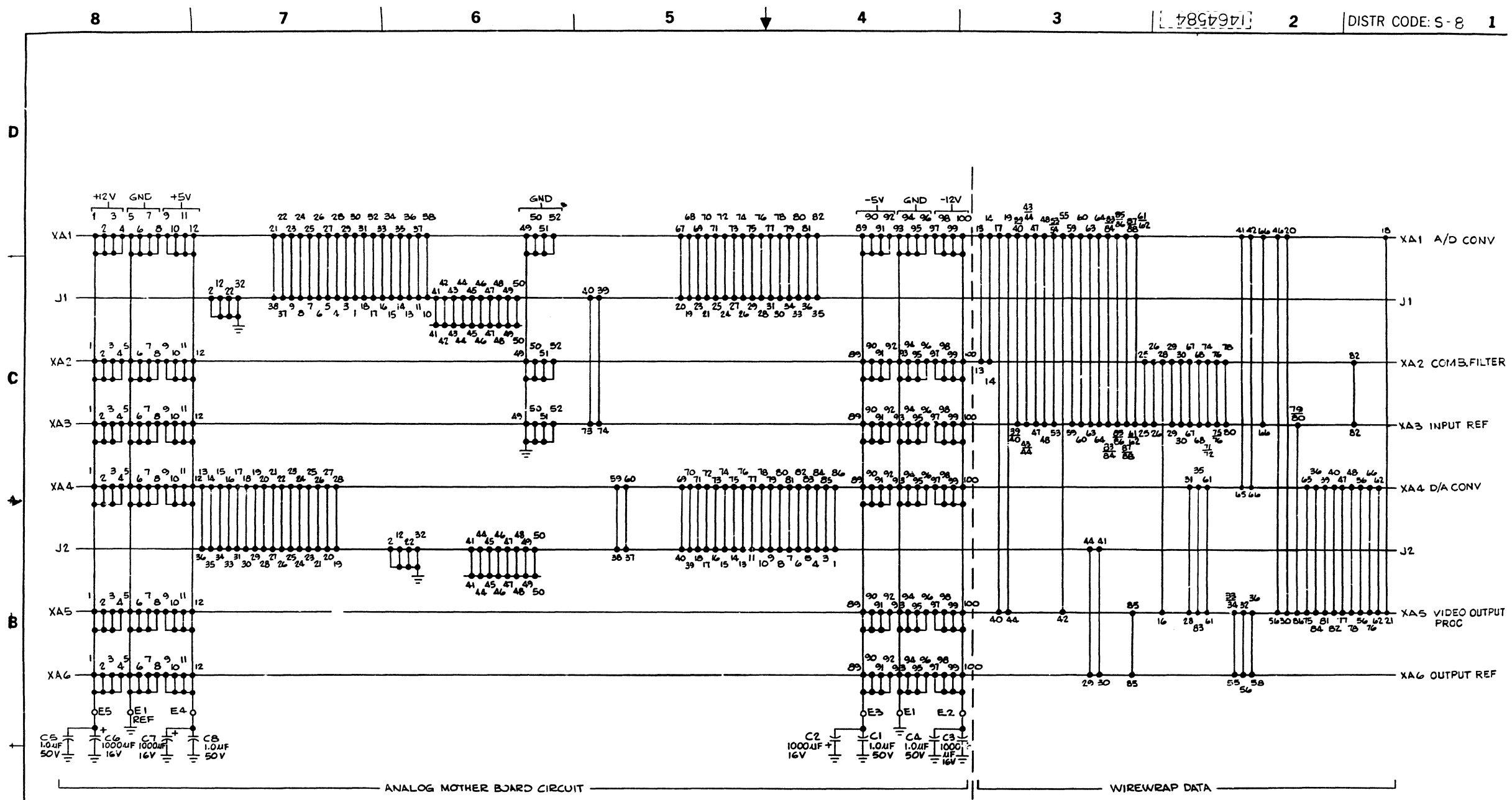
Wiring Diagram No. 1420457B.
Analog/Digital Motherboard
and Connector Panel



Assembly No. 1420154-02E. Analog Chassis Assembly



Assembly No. 1464582-01—. Analog Motherboard PWA

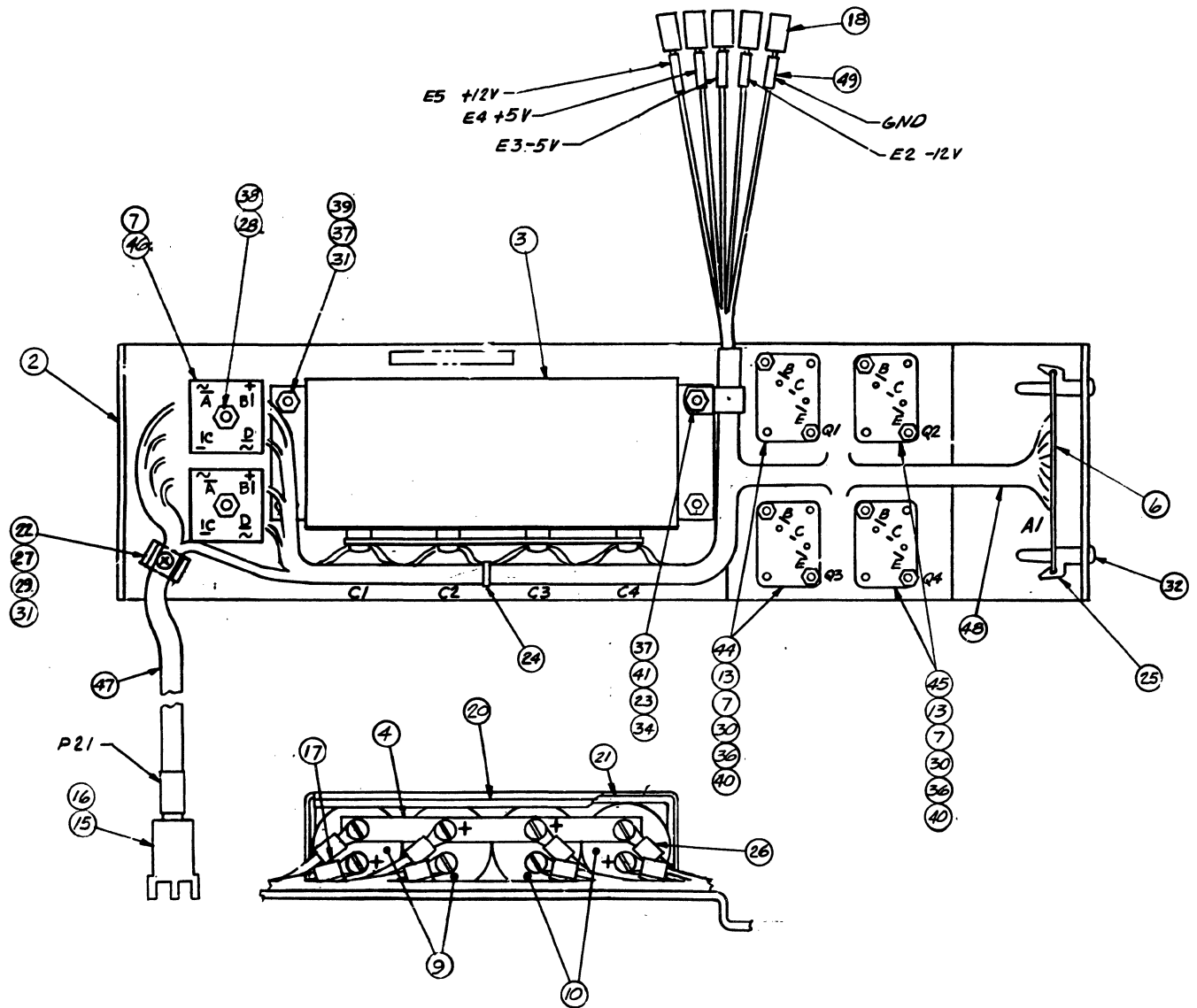


REF DES	
LAST USED	NOT USED
C8	
E5	
J2	
XA6	

Wiring Diagram/Schematic No. 1464584—
Analog Motherboard PWA

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER															
					-01	-02														
1	1420062-01		PWA, ANALOG VOLTAGE REGULATOR A1		1	-														
2	1420162-01		BRACKET, HEATSINK		1	1														
3	1420379-01		BRACKET, RETAINER, CAPACITOR		1	1														
4	1420398-01		BAR, BUS		1	1														
5	1420064		SCHEMATIC		(A)	C														
6	1420062-02		PWA, ANALOG VOLTAGE REGULATOR, A1			1														
7	087-388		HEATSINK COMPOUND		A/R	A/R														
8																				
9	063-339		CAPACITOR, AL, 5200uF C1,2		2	2														
10	063-417		CAPACITOR, AL, 11,000uF C3,4		2	2														
11																				
12																				
13	150-142		MOUHTING KIT, TRANSISTOR Q1,2,3,4		4	4														
14																				
15	167-022		CONNECTOR, PART, BODY, PLUG, RECT, 6 POS P21		1	1														
16	169-585		CONNECTOR PART, CONTACT, PIN P21		6	6														
17	171-007		TERMINAL, LUG, #10 RING		11	11														
18	187-395		TERMINAL, QUICK DISCON, FEMALE, 16-14 AWG		13	13														
19	172-212		TERMINAL LUG, SPADE, #10 RING, 22-18 AWG		1	-														
20	260-052		GROMMET, CATERPILLAR		A/R	A/R														
21	225-453		TAPE, ADHESIVE, SINGLE SIDED, FOAM, VINYL, .500WD		A/R	A/R														
22	280-995		SPACER, THD, 6-32 X .50 LG, .250 OD		1	1														
23	302-200		CLAMP, CABLE, 3/8 ID		2	1														
24	302-379		STRAP, CABLE		A/R	A/R														
25	283-354		SPACER, SNAP IN, SCREW MOUNT		4	4														
26	171-178		TERMINAL LUG, RING, #10 STUD, 22-18 AWG		-	1														
27	302-355		STRAP ACC, MTG PLATE, .585 LG, .375 WD, .270 HG, .180 MTG		-	1														
28	471-349		SCREW, FLAT HD, 8-32 X .75 LG		2	2														
29	471-067		SCREW, PAN HD., 6-32 X .25 LG		1	1														
30	471-062		SCREW, PAN HD., 4-40 X .38 LG		8	8														
31	471-336		SCREW, FLAT HD., 6-32 X .38 LG		4	4														
32	476-060		SCREW, PAN HD., SELF TAPPING, 6-20 X .312 LG		4	4														
33																				
34	471-338		SCREW, FLAT HD., 6-32 X .50 LG		1	1														
35																				
36	496-004		NUT, KEP, 4-40		8	8														
37	496-005		NUT, KEP, 6-32		5	5														

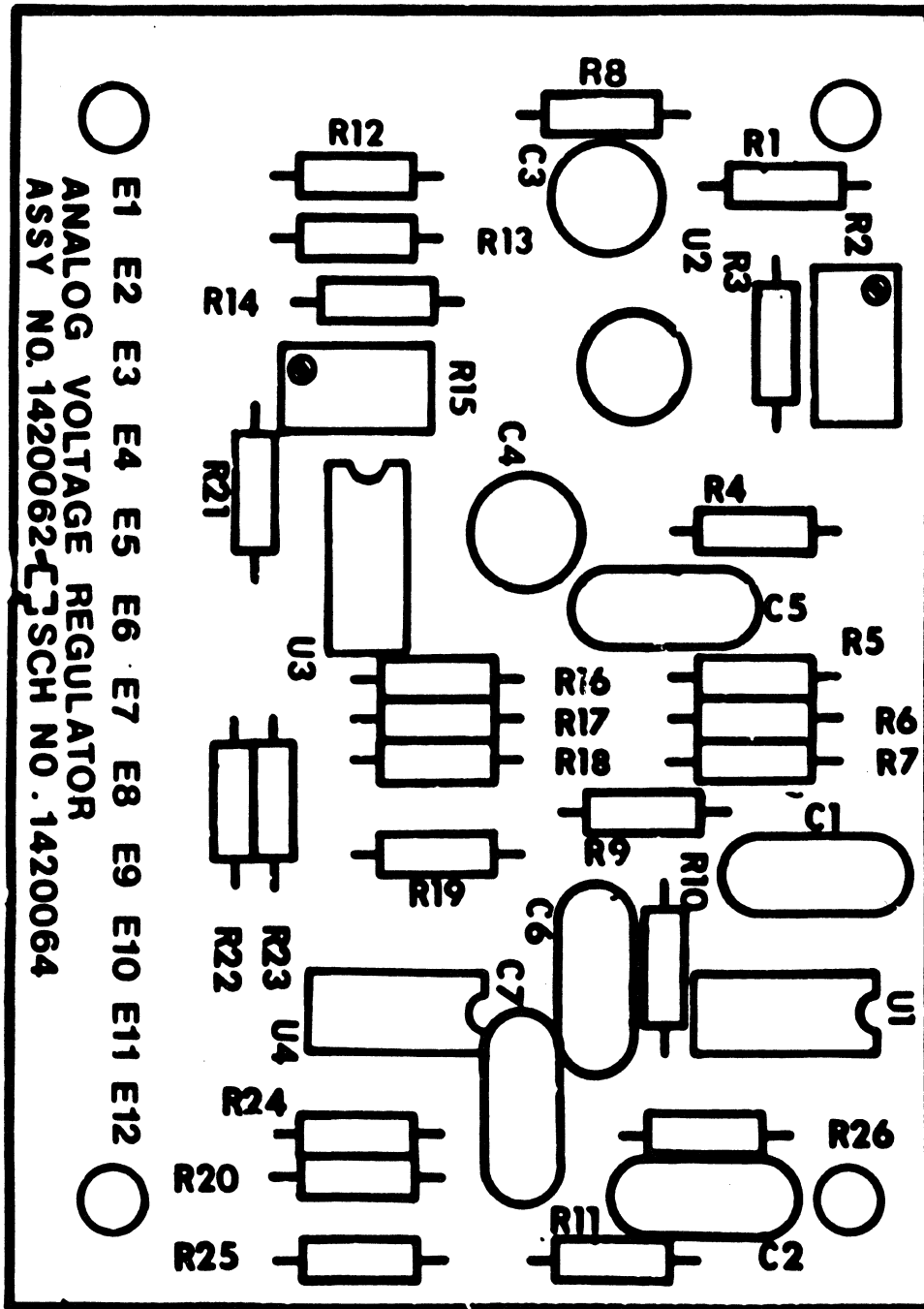
LM-1420161



Assembly No. 1420161-02J. Regulator Heatsink Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-01	-02															
1				-01																
2																				
3	1420064	SCHEMATIC		(-)	(C)															
4																				
5																				
6	034-177	CAPACITOR, MICA, 100pF, 500V, $\pm 5\%$	C5	1	1															
7	056-163	CAPACITOR, MICA, 470pF, 500V, $\pm 5\%$	C1,2,6,7	4	4															
8																				
9	037-812	CAPACITOR, TANT., 1 μ F, 25V, $\pm 20\%$	C3	1	1															
10	037-954	CAPACITOR, TANT., 22 μ F, 15V, $\pm 20\%$	C4	1	1															
11																				
12	586-321	INTEGRATED CIRCUIT, CA723CT	U2	1	1															
13	586-905	INTEGRATED CIRCUIT, MC1458CP	U1,3,4	3	3															
14																				
15	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, $\pm 5\%$	R7,10,17,18	4	4															
16	066-675	1.8K	R9,11,19,20	4	4															
17	066-810	10	R3	1	1															
18	066-818	470	R13,14	2	-															
19	066-838	330	R22	1	1															
20	066-841	RESISTOR, C.F., 1.3K OHMS, 1/4W, $\pm 5\%$	R8	1	1															
21	066-818	RESISTOR, C.F., 470 OHMS, 1/4W, $\pm 5\%$	R13,14,23-26		6															
22																				
23	062-639	RESISTOR, M.F., 3.01K OHMS, 1/4W, $\pm 1\%$	R1	1	1															
24	062-643	2K	R4,5	2	2															
25	062-940	2.1K	R21	1	1															
26	062-951	2.8K	R6	1	1															
27	062-952	2.87K	R16	1	1															
28	062-968	RESISTOR, M.F., 4.99K OHMS, 1/4W, $\pm 1\%$	R12	1	1															
29																				
30																				
31	058-452	RESISTOR, VAR., 200 OHMS, 1/2W, $\pm 10\%$	R15	1	1															
32	058-564	RESISTOR, VAR., 500 OHMS, 1/2W, $\pm 10\%$	R2	1	1															
33																				
34	582-329	I.C. MTG HDW, DUAL IN-LINE, 8 PINS	REF: U1,3,4	3	3															

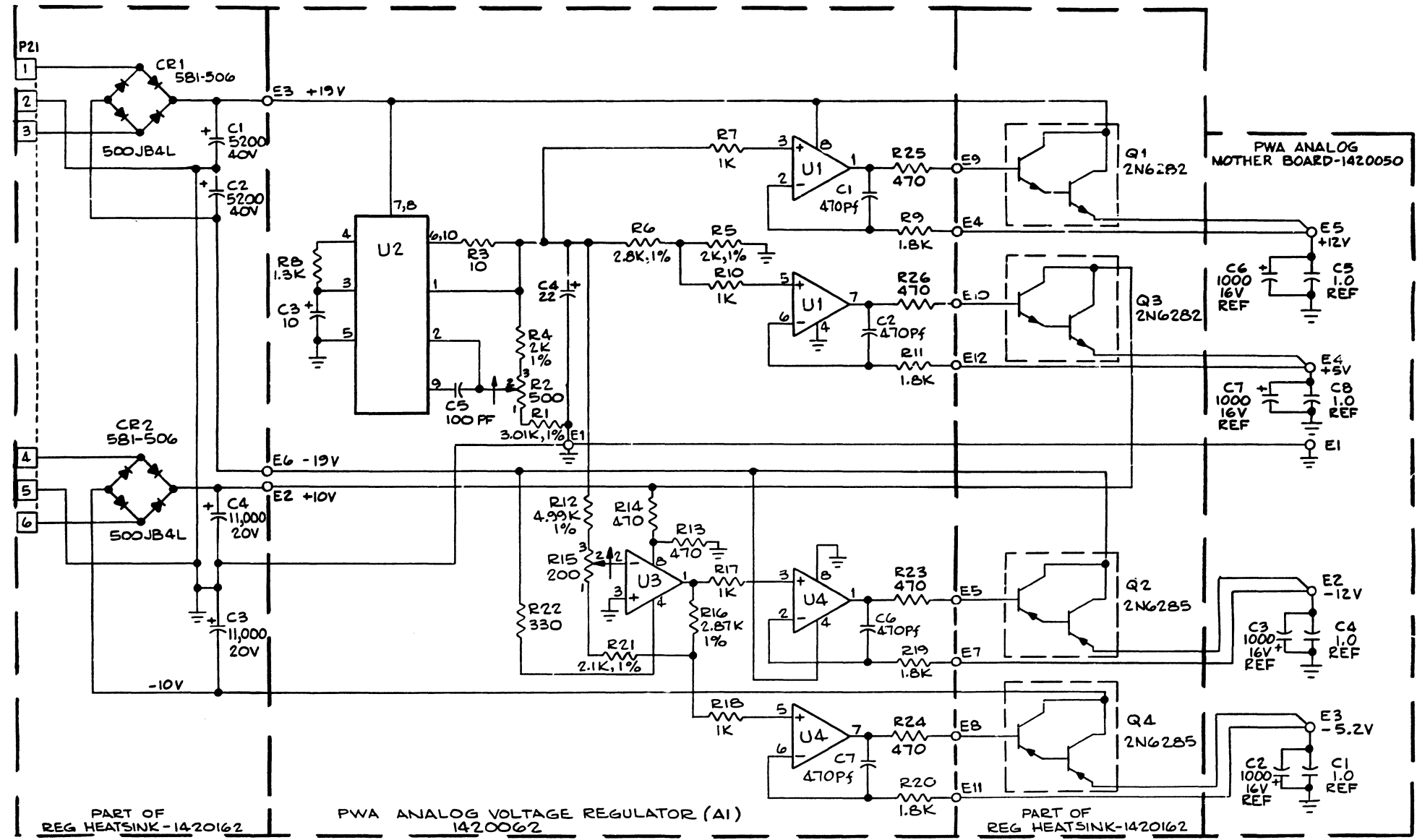
LM-1420062



Assembly No. 1420062-02G. Analog Voltage Regulator PWA

PWA ANALOG VOLTAGE REGULATOR 1420062	
REF DES	
LAST USED	NOT USED
C7	
E12	
R26	
U4	

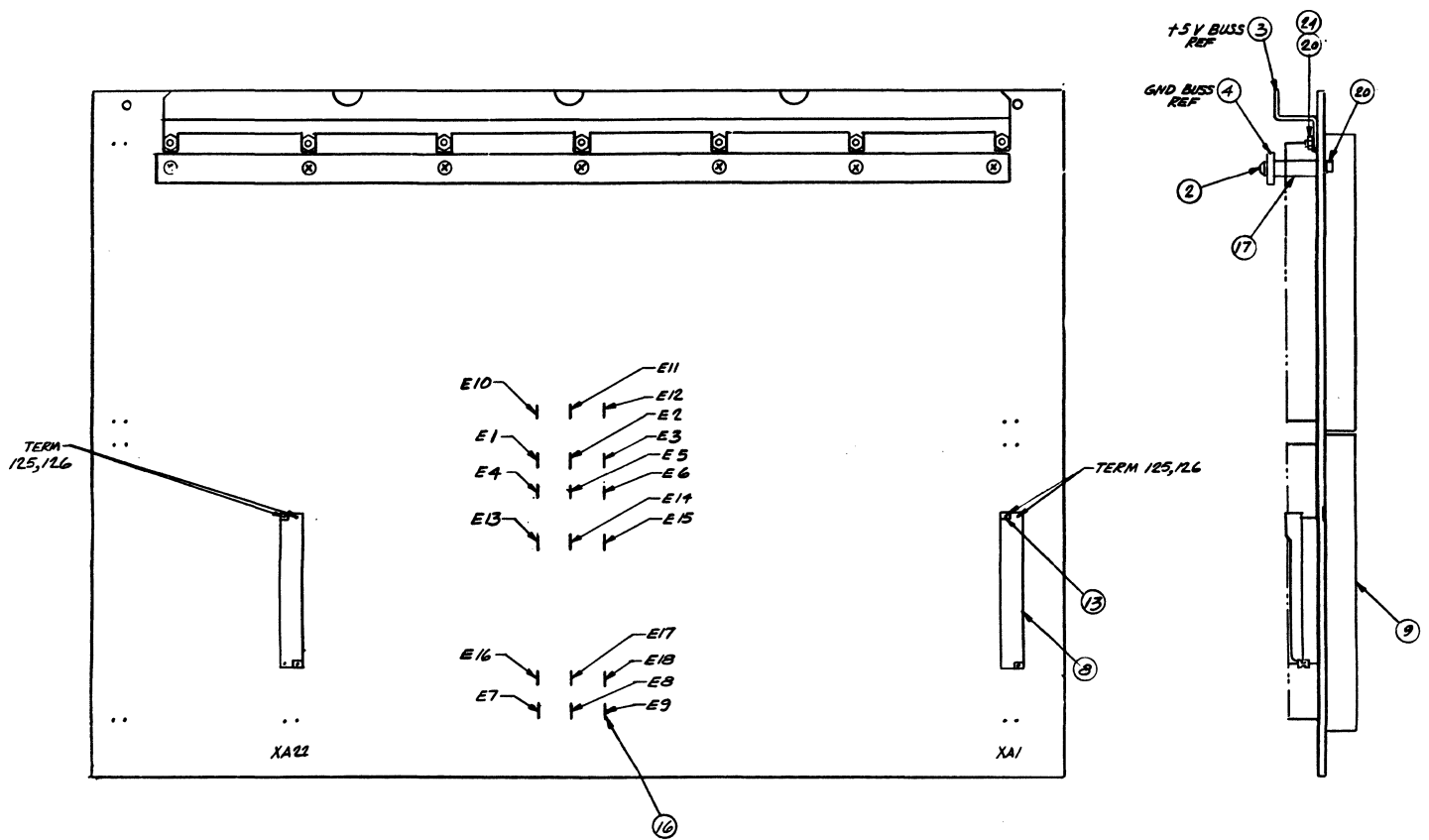
D
C
B
A



DEVICE TABLE, PWA ANALOG VOLTAGE REGULATOR					
POWER PINS	REF DES	UNUSED OUTPUT PINS	AMPEX P/N	VENDOR P/N	
8	4	5			
+19V - GND	U2		586-321	CA723CT	
+19V GND	U1		586-905	MC1458CP	
+19V -19V	U3	7			
+19V -19V	U4				

- NOTES: UNLESS OTHERWISE SPECIFIED
1. ALL GROUNDS ARE COMMON
 2. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%
 3. CAPACITANCE VALUES ARE IN MICROFARADS.

Schematic No. 1420064D.
Analog Voltage Regulator/
Regulator Heatsink PWA



E REF DESIG
GNDS, E10-E18
-5V, E1-E3
-12V, E4-E6
+12V, E7-E9

Assembly No. 1409725-06M. Digital Motherboard PWA

AMPEX		AMPEX CORPORATION REWOOD CITY CALIFORNIA		CODE IDENT NO 92739		WIRE ROUTING LIST			1409725 4 SHEET 50		M
WIRE NO	GAUGE/COND.	FROM			TO			REMARKS	LM ITEM NUMBER		
		STA	REF DES	TERM	STA	REF DES	TERM			-05	
1	30		XA1	125		XA2	196	TTL Y DATA		30	
2				124			194	TO INPUT MEM			
3				123			192				
4				122			190				
5				121			188				
6				120			186				
7				119			184				
8				118		XA2	182	LSB			
9			XA1	48		XA15	145				
10			XA2	196		XA3	196	TTL Y DATA			
11				194			194				
12				192			192				
13				190			190				
14				188			188				
15				186			186				
16				184			184				
17			XA2	182		XA3	182	LSB			
18											
19			XA3	196		XA4	196	TTL Y DATA			
20				194			194				
21				192			192				
22				190			190				
23				188			188				
24				186			186				
25				184			184				
26			XA3	182		XA4	182	LSB			
27											
28			XA4	196		XA5	196	TTL Y DATA			
29				194			194				
30				192			192				
31				190			190				
32				188			188				
33				186			186				
34				184			184				
35			XA4	182		XA5	182	LSB			
36											
37			XA5	196		XA6	196	TTL Y DATA			
38				194			194				
39				192			192				
40				190			190				
41				188			188				
42				186			186				
43				184			184				
44			XA5	182		XA6	182	LSB			
45	30									30	

1409725

AMPEX		AmpeX Corporation SHERMAN OAKS, CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725 5 SHEET 50	M	
WIRE NO	GAUGE/COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
46	30		XA2	166		XA11	90	LSB Y DATA FROM		30
47				164			80	MEM 1 5		
48				162			70	TO VPROC.		
49				160			50			
50				158			40	MEM 1		
51				156			30			
52				154			20			
53			XA2	152		XA11	10			
54										
55			XA3	166		XA11	88	LSB		
56				164			78			
57				162			68			
58				160			48			
59				158			38	MEM-2		
60				156			28			
61				154			18			
62			XA3	152		XA11	9			
63										
64			XA4	166		XA11	96	LSB		
65				164			86			
66				162			76			
67				160			56	MEM 3		
68				158			46			
69				156			36			
70				154			26			
71			XA4	152		XA11	16			
72										
73			XA5	166		XA11	94	LSB		
74				164			84			
75				162			74			
76				160			54	MEM 4		
77				158			44			
78				156			34			
79				154			24			
80			XA5	152		XA11	14			
81										
82			XA6	166		XA11	92	LSB		
83				164			82			
84				162			72			
85				160			52	MEM 5		
86				158			42			
87				156			32			
88				154			22			
89			XA6	152		XA11	12			
90	30									30

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AMPEX		AmpeX Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	WIRE ROUTING LIST			1409725 6 SHEET 50		RFV M
WIRE NO	GAUGE/COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
91	30		XA11	121		XA10	32	LSB Y DATA VPROC INTERP		30
92				123			33	(3) VERT.		
93				125			34			
94				128			35			
95				111			36			
96				113			38			
97				115			39			
98			XA11	119		XA10	40			
99										
100			XA11	146		XA10	68	LSB		
101				144			69	(1)		
102				142			70			
103				140			71			
104				136			72			
105				134			73			
106				132			74			
107			XA11	130		XA10	75			
108										
109			XA11	120		XA10	119	LSB		
110				122			120	(2)		
111				124			121			
112				126			122			
113				112			123			
114				114			124			
115				116			125			
116			XA11	118		XA10	126			
117										
118			XA11	145		XA10	162	LSB		
119				143			163	(3)		
120				141			164			
121				139			165			
122				135			166			
123				133			168			
124				131			169			
125			XA11	129		XA10	170			
126										
127										
128										
129										
130										
131										
132										
133										
134										
135	30									30

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AMPEX		Amplex Corporation INCORPORATED IN CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725	REV M	
							7 SHEET 50			
WIRE NO	GAUGE/ COND	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES	TERM	STA	REF DES	TERM			-05
136	30		XA9	45		XA10	18	LSB Y DATA A		30
137				44			19	V INTERP COEFF STORE		
138				43			20			
139				42			21			
140				41			22			
141				40			23			
142				39			24			
143				38			25			
144				35			26			
145				34			28			
146				33			29			
147			XA9	32		XA10	30			
148										
149			XA9	31		XA10	184	LSB Y DATA B		
150				30			183	V INTERP COEFF		
151				29			182			
152				28			181			
153				25			180			
154				24			179			
155				23			178			
156				22			176			
157				21			175			
158				20			174			
159				19			173			
160			XA9	18		XA10	172			
161										
162			XA10	31		XA9	26	ROUND A		
163			XA10	171		XA9	36	ROUND B		
164										
165			XA9	65		XA16	196			
166				64			194			
167				63			192			
168				62			190			
169				61			188	Y DATA		
170				60			186	TO MEM 4		
171				59			184			
172			XA9	58		XA16	182	LSB		
173			XA16	196		XA17	196			
174				194			194			
175				192			192	Y DATA		
176				190			190	TO MEM 5		
177				188			188			
178				186			186			
179				184			184			
180	30		XA16	182		XA17	182	LSB		30

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AMPEX		Amplex Corporation Redwood City California		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725 8 SHEET 50	RFV M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
181	30		XA16	166		XA22	75	LSB		30
182				164			74	Y DATA MEM 4		
183				162			73	TO H-PROC		
184				160			72			
185				158			71			
186				156			70			
187				154			69			
188			XA16	152		XA22	68			
189										
190			XA17	166		XA22	66	LSB		
191				164			65	Y DATA MEM 5		
192				162			64	TO H-PROC		
193				160			63			
194				158			62			
195				156			61			
196				154			60			
197			XA17	152		XA22	59			
198										
199			XA22	48		XA21	32	LSB		
200				49			33			
201				50			34	Y LOW DATA		
202				51			35	TO INT 0		
203				52			36			
204				53			38			
205				54			39			
206			XA22	55		XA21	40			
207										
208			XA22	48		XA21	119	LSB		
209				49			120	Y LOW DATA		
210				50			121	TO INT 2		
211				51			122			
212				52			123			
213				53			124			
214				54			125			
215			XA22	55		XA21	126			
216										
217			XA22	38		XA21	68	LSB		
218				39			69	Y HIGH DATA		
219				40			70	TO INT 1		
220				41			71			
221				42			72			
222				43			73			
223				44			74			
224			XA22	45		XA21	75			
225	30									30

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AMPEX		Amplex Corporation SERVICES OF CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725	RFV M	
WIRE NO	GAUGE/ COND	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES	TERM	STA	REF DES	TERM			-05
226	30		XA22	38		XA21	162	LSB		30
227				39			163	Y HIGH DATA		
228				40			164	TO INT 3		
229				41			165			
230				42			166			
231				43			168			
232				44			169			
233			XA22	45		XA21	170			
234										
235			XA21	18		XA20	45	LSB Y DATA 1		
236				19			44	H. INTE COEFF		
237				20			43			
238				21			42			
239				22			41			
240				23			40			
241				24			39			
242				25			38			
243				26			35			
244				28			34			
245				29			33			
246			XA21	30		XA20	32			
247										
248			XA21	184		XA20	31	LSB Y DATA 2		
249				183			30	H INT. COEFF		
250				182			29			
251				181			28			
252				180			25			
253				179			24			
254				178			23			
255				176			22			
256				175			21			
257				174			20			
258				173			19			
259			XA21	172		XA20	18			
260										
261			XA21	31		XA20	26	ROUND A		
262			XA21	171		XA20	36	ROUND B		
263			XA20	58		XA22	28	LSB OUTPUT TTL		
264				59			29	Y DATA		
265				60			30			
266				61			31			
267				62			32			
268				63			33			
269				64			34			
270	30		XA20	65		XA22	35			30

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A.MPEX		AmpeX Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739		WIRE ROUTING LIST		1409725 10 SHEET 50		RFV M
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
271	30		XA1	108		XA8	79	LSB CHROMA/KEY INPUT		30
272				109			80	DATA TO INPUT		
273				110			81	C/K MEMORY		
274				111			82			
275				112			83			
276				113			84			
277				114			85			
278			XA1	115		XA8	86			
279										
280			XA8	79		XA8	89	LSB		
281				80			90			
282				81			91			
283				82			92			
284				83			93			
285				84			94			
286				85			95			
287			XA8	86		XA8	96			
288										
289			XA8	89		XA8	109	LSB		
290				90			110			
291				91			111			
292				92			112			
293				93			113			
294				94			114			
295				95			115			
296			XA8	96		XA8	116			
297										
298			XA8	109		XA8	119	LSB		
299				110			120			
300				111			121			
301				112			122			
302				113			123			
303				114			124			
304				115			125			
305			XA8	116		XA8	126			
306										
307			XA8	178		XA8	177	CHR MEM ENABLES		
308			XA8	188		XA8	187			
309										
310			XA19	178		XA19	177			
311			XA19	188		XA19	187			
312										
313			XA19	62		XA19	66			
314			XA19	61		XA19	65			
315	30									30

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AMPEX		AmpeX Corporation Redwood City, California		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725 11 SHEET 50	REV. M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES	TERM	STA	REF DES	TERM			-05
316	30		XA8	189		XA7	89	LSB RED DATA		30
317				190			90	V CR/KEY MEM		
318				191			91	V CR PROC		
319				192			92			
320				193			93			
321				194			94			
322				195			95			
323			XA8	196		XA7	96			
324										
325			XA8	179		XA7	109	LSB BLU DATA		
326				180			110			
327				181			111			
328				182			112			
329				183			113			
330				184			114			
331				185			115			
332			XA8	186		XA7	116			
333										
334			XA7	138		XA19	119	LSB RED DATA		
335				139			120	V CR PROC		
336				140			121	H CR/KEY MEM		
337				141			122			
338				142			123			
339				143			124			
340				144			125			
341			XA7	145		XA19	126			
342										
343			XA7	128		XA19	109	LSB BLU DATA		
344				129			110			
345				130			111			
346				131			112			
347				132			113			
348				133			114			
149				134			115			
350			XA7	135		XA19	116			
351										
352			XA2	150		XA2	147			
353			XA3	150		XA3	147			
354			XA4	150		XA4	147			
355			XA5	150		XA5	147			
356			XA6	150		XA6	147			
357			XA16	150		XA16	147			
358			XA17	150		XA17	147			
359										
360	30									30

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AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	WIRE ROUTING LIST			1409725 12 SHEET 59	PTV M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
361	30		XA19	189		XA18	89	LSB RED DATA		30
362				190			90	H CR/KEY MEM		
363				191			91	H CROMA PROC		
364				192			92			
365				193			93			
366				194			94			
367				195			95			
368			XA19	196		XA18	96			
369										
370			XA19	179		XA18	109	LSB BLU DATA		
371				180			110			
372				181			111			
373				182			112			
374				183			113			
375				184			114			
376				185			115			
377			XA19	186		XA18	116			
378										
379			XA18	138		XA22	108	LSB RED DATA		
380				139			109	H CROMA PROC		
381				140			110	H PROC		
382				141			111			
383				142			112			
384				143			113			
385				144			114			
386			XA18	145		XA22	115			
387										
388			XA18	128		XA22	118	BLU DATA		
389				129			119			
390				130			120			
391				131			121			
392				132			122			
393				133			123			
394				134			124			
395			XA18	135		XA22	125			
396										
397										
398										
399										
400										
401										
402										
403										
404										
405	30									30

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AMPEX		AmpeX Corporation REDWOOD CITY CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725 13 SHEET 50	M	
WIRE NO	GAUGE/COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
406	30		XA8	169		XA8	159	LSB		30
407				170			160			
408				171			161			
409				172			162			
410				173			163			
411				174			164			
412				175			165			
413			XA8	176		XA8	166			
414										
415			XA8	159		XA12	26	LSB V KEY PR INPUT		
416				160			25			
417				161			24			
418				162			23			
419				163			22			
420				164			21			
421				165			20			
422			XA8	166		XA12	19			
423										
424			XA12	96		XA19	89	LSB		
425				95			90			
426				94			91			
427				93			92	Y KEY PROC OUTPUT		
428				92			93			
429				91			94			
430				90			95			
431			XA12	89		XA19	96			
432										
433			XA19	89		XA19	79	LSB		
434				90			80			
435				91			81			
436				92			82			
437				93			83			
438				94			84			
439				95			85			
440			XA19	96		XA19	86			
441										
442										
443										
444										
445										
446										
447										
448										
449										
450	30									30

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AMPEX		Amplex Corporation Redwood City, California		CODE IDENT NO. 92739		WIRE ROUTING LIST			1409725 14 SHEET 50		RFY M
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER		
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05	
451	30		XA19	169		XA19	159	LSB		30	
452				170			160	KEY TO			
453				171			161	H KEY PROC			
454				172			162				
455				173			163				
456				174			164				
457				175			165				
458			XA19	176		XA19	166				
459											
460			XA19	159		XA23	26	LSB KEY TO H			
461				160			25	KEY PROC			
462				161			24				
463				162			23				
464				163			22				
465				164			21				
466				165			20				
467			XA19	165		XA23	19				
468											
469			XA23	96		XA22	26	LSB KEY OUT			
470				95			25				
471				94			24				
472				93			23				
473				92			19				
474				91			20				
475				90			21				
476			XA23	89		XA22	22				
477											
478			XA23	108		XA24	172				
479				109		XA23	108				
480				110		XA23	109				
481			XA23	111		XA23	117				
482			XA12	108		XA12	109				
483											
484			XA12	109		XA1	86				
485			XA12	110		XA1	82				
486			XA12	111		XA12	108				
487											
488			XA1	84		XA8	158				
489			XA1	80		XA8	168				
490											
491											
492											
493											
494											
495	30									30	

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AMPEX		Amplex Corporation 25000 CRY CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725 15 SHEET 50	REV. M	
WIRE NO	GAUGE/COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES	TERM	STA	REF DES	TERM			-05
496	30		XA26	196		XA25	196	CDØ		30
497				195			195			
498				194			194			
499				193			193			
500				192			192			
501				191			191			
502				190			190	COMP BUS		
503				189			189	LLC TO PER I H		
504				188			188			
505				186			186			
506				185			185			
507				184			184			
508				183			183			
509				182			182			
510				181			181			
511			XA26	180		XA25	180	CD15		
512										
513			XA26	179		XA25	179	CAØ		
514				178			178			
515				176			176			
516				175			175			
517				174			174			
518			XA26	173		XA25	173	CAS		
519										
520			XA26	171		XA25	171	CSTB		
521										
522										
523										
524										
525										
526										
527										
528										
529										
530										
531										
532										
533										
534										
535										
536										
537										
538										
539										
540	30									30

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AMPEX		AmpeX Corporation Redwood City, California		CODE IDENT NO 92739		WIRE ROUTING LIST			1409725 16 SHEET 50		REV M
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER		
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05	
541	30		XA25	196		XA24	196	CDØ		30	
542				195			195				
543				194			194				
544				193			193				
545				192			192				
546				191			191				
547				190			190	COMP BUS			
548				189			189	TO PER 11 H			
549				188			188				
550				186			186				
551				185			185				
552				184			184				
553				183			183				
554				182			182				
555				181			181				
556			XA25	180		XA24	180	CD15			
557											
558			XA25	179		XA24	179	CAØ			
559				178			178				
560				176			176				
561				175			175				
562				174			174				
563			XA25	173		XA24	173	CAS			
564											
565			XA25	171		XA24	171	CSTB			
566											
567											
568											
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584											
585	30									30	

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WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
586	30		XA24	196		XA23	196	CDØ		30
587				195			195			
588				194			194			
589				193			193			
590				192			192			
591				191			191			
592				190			190	COMP BUS		
593				189			189	TO KEY PROC H		
594				188			188			
595				186			186			
596				185			185			
597				184			184			
598				183			183			
599				182			182			
600				181			181			
601			XA24	180		XA23	180	CD15		
602										
603			XA24	179		XA23	179	CAØ		
604				178			178			
605				176			176			
606				175			175			
607				174			174			
608			XA24	173		XA23	173	CA5		
609										
610			XA24	171		XA23	171	CSTB		
611										
612										
613										
614										
615										
616										
617										
618										
619										
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628										
629										
630	30									30

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AMPEX		Amplex Corporation Redwood City California		CODE IDENT NO 92739		WIRE ROUTING LIST			1409725 18 SHEET 50		REV M
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER		
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05	
631	30		XA23	196		XA22	196	CDØ		30	
632				195			195				
633				194			194				
634				193			193				
635				192			192				
636				191			191				
637				190			190	COMP BUS			
638				189			189	TO H PROC			
639				188			188				
640				186			186				
641				185			185				
642				184			184				
643				183			183				
644				182			182				
645				181			181				
646			XA23	180		XA22	180	CD15			
647											
648			XA23	179		XA22	179	CAØ			
649				178			178				
650				176			176				
651				175			175				
652				174			174				
653			XA23	173		XA22	173	CAS			
654											
655			XA23	171		XA22	171	CSTB			
656											
657											
658											
659											
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675	30									30	

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AMPEX		Amplex Corporation REMOVED BY CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725 19 SHEET 50	RFV M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
676	30		XA23	196		XA18	196	CDØ		30
677				195			195			
678				194			194			
679				193			193			
680				192			192			
681				191			191			
682				190			190	COMP BUS		
683				189			189	TO H COL PROC		
684				188			188			
685				186			186			
686				185			185			
687				184			184			
688				183			183			
689				182			182			
690				181			181			
691			XA23	180		XA18	180	CD15		
692										
693			XA23	179		XA18	179	CAØ		
694				178			178			
695				176			176			
696				175			175			
697				174			174			
698			XA23	173		XA18	173	CA5		
699										
700			XA23	171		XA18	171	CSTB		
701										
702										
703										
704										
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720	30									30

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AMPEX

AMPEX CORPORATION
REDWOOD CITY, CALIFORNIA

CODE IDENT NO
92739

WIRE ROUTING LIST

1409725
20 SHEET 50

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WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
721	30		XA18	196		XA15	196	CDØ		30
722				195			195			
723				194			194			
724				193			193			
725				192			192			
726				191			191			
727				190			190	COMP BUS		
728				189			189	TU OUT CONT		
729				188			188			
730				186			186			
731				185			185			
732				184			184			
733				183			183			
734				182			182			
735				181			181			
736			XA18	180		XA15	180	CD15		
737										
738			XA18	179		XA15	179	CAØ		
739				178			178			
740				176			176			
741				175			175			
742				174			174			
743			XA18	173		XA15	173	CA5		
744										
745			XA18	171		XA15	171	CSTB		
746										
747										
748										
749										
750										
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763										
764										
765	30									30

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AMPEX		AmpeX Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	WIRE ROUTING LIST			1409725	REV M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
766	30		XA15	196		XA14	196	CDØ		30
767				195			195			
768				194			194			
769				193			193			
770				192			192			
771				191			191			
772				190			190	COMP BUS		
773				189			189	TO V PER I		
774				188			188			
775				186			186			
776				185			185			
777				184			184			
778				183			183			
779				182			182			
780				181			181			
781			XA15	180		XA14	180	CD15		
782										
783			XA15	179		XA14	179	CAB		
784				178			178			
785				176			176			
786				175			175			
787				174			174			
788			XA15	173		XA14	173	CAS		
789										
790			XA15	171		XA14	171	CSTB		
791			XA15	126		XA22	116	A/B SWITCH		
792			XA15	92		XA22	106	PAL		
793										
794										
795										
796										
797										
798										
799										
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804										
805										
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809										
810	30									30

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AMPEX		AMPEX CORPORATION REDWOOD CITY CALIFORNIA		CODE IDENT NO. 92739	WIRE ROUTING LIST			1409725 22 SHEET 50	REV M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
811	30		XA14	196		XA13	196	CDØ		30
812				195			195			
813				194			194			
814				193			193			
815				192			192			
816				191			191			
817				190			190	COMP BUS		
818				189			189	TO V FER II		
819				188			188			
820				186			186			
821				185			185			
822				184			184			
823				183			183			
824				182			182			
825				181			181			
826			XA14	180		XA13	180	CD15		
827										
828			XA14	179		XA13	179	CAØ		
829				178			178			
830				176			176			
831				175			175			
832				174			174			
833			XA14	173		XA13	173	CA5		
834										
835			XA14	171		XA13	171	CSTB		
836										
837										
838										
839										
840										
841										
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843										
844										
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850										
851										
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855	30									30

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AMPEX		AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	WIRE ROUTING LIST			1409725 23 SHEET 50	REV M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
856	30		XA13	196		XA12	196	CDØ		30
857				195			195			
858				194			194			
859				193			193			
860				192			192			
861				191			191			
862				190			190	COMP BUS		
863				189			189	TO VERT KEY PROC		
864				188			188			
865				186			186			
866				185			185			
867				184			184			
868				183			183			
869				182			182			
870				181			181			
871			XA13	180		XA12	180	CD:5		
872										
873			XA13	179		XA12	179	CAØ		
874				178			178			
875				176			176			
876				175			175			
877				174			174			
878			XA13	173		XA12	173	CA5		
879										
880			XA13	171		XA12	171	CSTB		
881										
882										
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AMPEX		Amplex Corporation 46500 CRY CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725	RFV M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
901	30		XA12	196		XA11	196	CDØ		30
902				195			195			
903				194			194			
904				193			193			
905				192			192			
906				191			191			
907				190			190	COMP BUS		
908				189			189	TO V PROC		
909				188			188			
910				186			186			
911				185			185			
912				184			184			
913				183			183			
914				182			182			
915				181			181			
916			XA12	180		XA11	180	CD15		
917										
918			XA12	179		XA11	179	CAØ		
919				178			178			
920				176			176			
921				175			175			
922				174			174			
923			XA12	173		XA11	173	CA5		
924										
925			XA12	171		XA11	171	CSTB		
926										
927										
928										
929										
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931										
932										
933										
934										
935										
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941										
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943										
944										
945	30									30

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AMPEX		AMPEX CORPORATION SAN DIEGO, CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725 25 SHEET 50	REV. M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
946	30		XA11	196		XA7	196	CDØ		30
947				195			195			
948				194			194			
949				193			193			
950				192			192			
951				191			191			
952				190			190	COMP BUS		
953				189			189	TO COLOUR PROC V		
954				188			188			
955				186			186			
956				185			185			
957				184			184			
958				183			183			
959				182			182			
960				181			181			
961			XA11	180		XA7	180	CD15		
962										
963			XA11	179		XA7	179	CAØ		
964				178			178			
965				176			176			
966				175			175			
967				174			174			
968			XA11	173		XA7	173	CA5		
969										
970			XA11	171		XA7	171	CSTB		
971										
972										
973										
974										
975										
976										
977										
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979										
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981										
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989										
990	30									30

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AMPEX		Amplex Corporation REDWOOD CITY CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725	REV M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES	TERM			-05
991	30		XA7	196		XA1	196	CD8		30
992				195			195			
993				194			194			
994				193			193			
995				192			192			
996				191			191			
997				190			190	COMP BUS		
998				189			189	TO INPUT CTL		
999				188			188			
1000				186			186			
1001				185			185			
1002				184			184			
1003				183			183			
1004				182			182			
1005				181			181			
1006			XA7	180		XA1	180	CD15		
1007										
1008			XA7	179		XA1	179	CA8		
1009				178			178			
1010				176			176			
1011				175			175			
1012				174			174			
1013			XA7	173		XA1	173	CA5		
1014										
1015			XA7	171		XA1	171	CSTB		
1016										
1017										
1018										
1019										
1020										
1021										
1022										
1023										
1024										
1025										
1026										
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1031										
1032										
1033										
1034										
1035	30									30

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AMPEX		Amplex Corporation Redwood City California		CODE IDENT NO 92739		WIRE ROUTING LIST			1409725 27 SHEET 50		REV. M
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER		
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05	
1036	30		XA18	196		XA20	116	} CDB 3 WRAPS TOTAL ON THESE POSTS COMP BUS CD7 TO COEFF H		30	
1037				195			115				
1038				194			114				
1039				193			113				
1040				192			112				
1041				191			111				
1042				190			110				
1043			XA18	189		XA20	109				
1044											
1045											
1046											
1047											
1048											
1049											
1050											
1051											
1052											
1053			XA18	179		XA20	79	} CAP 3 WRAPS TOTAL ON THESE POSTS			
1054				178			78				
1055				176			76				
1056				175			75				
1057				174			74				
1058			XA18	173		XA20	73	CAS			
1059											
1060			XA18	171		XA20	71	CSTB			
1061											
1062											
1063											
1064											
1065											
1066											
1067											
1068											
1069											
1070											
1071											
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1073											
1074											
1075											
1076											
1077											
1078											
1079											
1080	30									30	

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AMPEX		Amplex Corporation REDWOOD CITY CALIFORNIA		CODE IDENT NO 92739		WIRE ROUTING LIST		1409725 28 SHEET 50		REF. M
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
1081	30		XA11	196		XA9	116	CDB		30
1082				195			115			
1083				194			114			
1084				193			113			
1085				192			112			
1086				191			111			
1087				190			110	COMP BUS		
1088			XA11	189		XA9	109			
1089										
1090										
1091										
1092										
1093										
1094										
1095										
1096										
1097										
1098			XA11	179		XA9	79	CAB		
1099				178			78			
1100				176			76			
1101				175			75			
1102				174			74			
1103			XA11	173		XA9	73	CAS		
1104										
1105			XA11	171		XA9	71	CSTB		
1106										
1107										
1108										
1109										
1110										
1111										
1112										
1113										
1114										
1115										
1116										
1117										
1118										
1119										
1120										
1121										
1122										
1123										
1124										
1125	30									30

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AMPEX		AmpeX Corporation SAN DIEGO, CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725 29 SHEET 50	RFV M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
1126	30		XA25	154		XA25	49	G		30
1127				153			52	HORIZ PERT		
1128				158			55	INTERCON		
1129				159			58			
1130				156			51			
1131				155			54			
1132				160			53			
1133				161			56			
1134				146			36			
1135				148			35			
1136				152			41			
1137				151			44			
1138				144			38			
1139				145			40			
1140				150			39			
1141				149			42			
1142				164			18			
1143				165			20			
1144				166			23			
1145				168			26			
1146				162			19			
1147				163			22			
1148				169			21			
1149			XA25	170		XA25	24	G23		
1150										
1151			XA14	68		XA14	36	VERT PER I		
1152				70			35	INTERCON		
1153				73			41			
1154				76			44			
1155				69			38			
1156				72			40			
1157				71			39			
1158				74			42			
1159				86			18			
1160				85			20			
1161				91			23			
1162				94			26			
1163				88			19			
1164				90			22			
1165				89			21			
1166				92			24			
1167				75			10			
1168				78			9			
1169				84			16			
1170	30		XA14	83		XA14	15			30

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AMPEX		Amplex Corporation REDWOOD CITY CALIFORNIA		CODE IDENT NO 92739		WIRE ROUTING LIST			1409725 30 SHEET 50		RFV M
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER		
		STA	REF DES.	TERM	STA	REF DES.	TERM			-06	
1171	30		XA14	80		XA14	12	V PER I		30	
1172				79			11	INTERCON			
1173				82			14				
1174			XA14	81		XA14	13				
1175											
1176			XA14	139		XA14	141	V PER I ADD JUMP			
1177			XA14	172		XA14	140				
1178											
1179			XA25	139		XA25	142	H PER I ADD JUMP			
1180			XA25	172		XA25	143				
1181											
1182			XA13	158		XA13	159	V PER II ADD JUMP			
1183											
1184			XA24	158		XA24	160	H PER II ADD JUMP			
1185											
1186			XA13	28		XA24	28	] OVERTEMP		
1187			XA24	28		XA15	153				
1188											
1189			XA15	159		XA27	132				
1190			XA15	160		XA27	129	COMP ADD			
1191			XA15	161		XA27	131				
1192											
1193			XA15	158		XA27	123				
1194				156			124	COMP INPUT			
1195				155			125	DATA			
1196			XA15	154		XA27	126				
1197											
1198			XA 7	165		XA 7	164	COL PROC ADD JUMP			
1199			XA18	166		XA18	164				
1200											
1201			XA 9	54		XA 9	53	COEFF ADD JUMP			
1202			XA20	55		XA20	53				
1203											
1204			XA15	105		XA19	158				
1205			XA15	106		XA19	168				
1206											
1207			XA15	148		XA26	116				
1208											
1209											
1210											
1211											
1212											
1213											
1214											
1215	30									30	

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AMPEX		Amplex Corporation REMOVED CITY CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725 31 SHEET 50	R.V. M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
1216	30		XA14	28		XA13	49	LSB		30
1217				30			50	V NUM MANT		
1218				29			51			
1219				33			52			
1220				34			53			
1221				31			54			
1222				32			55			
1223				60			56			
1224				59			59			
1225				62			60	PER I II		
1226				61			61	CONNECT V		
1227				65			62			
1228				66			63			
1229				63			64			
1230				64			65			
1231				46			19	LSB		
1232				43			20	V NUM EXP		
1233				48			21			
1234				45			22			
1235				50			23			
1236				121			29	LSB		
1237				129			30	V DEN MANT		
1238				128			31			
1239				124			32			
1240				123			33			
1241				126			34			
1242				125			35			
1243				113			36			
1244				112			39			
1245				120			40			
1246				119			41			
1247				115			42			
1248				114			43			
1249				116			44			
1250				135			45	U 15		
1251				131			9	LSB		
1252				138			10	V DEN EXP		
1253				132			11			
1254				130			12			
1255				136			13			
1256				133			14	COUT		
1257				134			15	V15		
1258			XA14	118		XA13	16	W15		
1259										
1260	30									30

1409725

AMPEXAmplex Corporation
NEWBURY CITY, CALIFORNIA

CODE IDENT NO.

92739**WIRE ROUTING LIST****1409725**

32 SHEET 50

RFV

M

WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER			
		STA	REF	DES.	TERM	STA	REF		DES.	TERM	-05	
1261	30		XA25		28		XA24		49	LSB		30
1262					30				50	H NUM MANT		
1263					29				51			
1264					33				52			
1265					34				53			
1266					31				54			
1267					32				55			
1268					60				56			
1269					59				59			
1270					62				60	PER I		
1271					61				61	PER II CONN H		
1272					65				62			
1273					66				63			
1274					63				64			
1275					64				65			
1276					46				19	LSB		
1277					43				20	H NUM EXP		
1278					48				21			
1279					45				22			
1280					50				23			
1281					121				29	LSB		
1282					129				30	H DEN MANT		
1283					128				31			
1284					124				32			
1285					123				33			
1286					126				34			
1287					125				35			
1288					113				36			
1289					112				39			
1290					120				40			
1291					119				41			
1292					115				42			
1293					114				43			
1294					116				44			
1295					135				45	U 15		
1296					131				9	LSB		
1297					138				10	H DEN EXP		
1298					132				11			
1299					130				12			
1300					136				13			
1301					133				14	C out		
1302					134				15	V 15		
1303			XA25		118		XA24		16	W 15		
1304												
1305	30											30

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AMPEX		Amper Corporation Redwood City California		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725 33 SHEET 50	DEV M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES	TERM	STA	REF DES	TERM			-05
1306	30		XA20	195		XA21	16	LSB		30
1307				194			15	H COEFF 0		
1308				193			14			
1309				192			13			
1310				191			12			
1311				190			11			
1312				189			10			
1313			XA20	188		XA21	9			
1314										
1315			XA20	185		XA21	49	LSB		
1316				184			48	H COEFF 1		
1317				183			46			
1318				182			45			
1319				181			44			
1320				180			43			
1321				179			42			
1322			XA20	178		XA21	41			
1323										
1324			XA20	175		XA21	58	LSB H COEFF 2		
1325				174			56			
1326				173			55			
1327				172			54			
1328				171			53			
1329				170			52			
1330				169			51			
1331			XA20	168		XA21	50			
1332										
1333			XA20	165		XA21	105	LSB H COEFF 3		
1334				164			96			
1335				163			95			
1336				162			94			
1337				161			93			
1338				160			92			
1339				159			91			
1340			XA20	158		XA21	90			
1341										
1342			XA20	155		XA21	114	LSB H COEFF 4		
1343				154			113			
1344				153			112			
1345				152			111			
1346				151			110			
1347				150			109			
1348				149			108			
1349			XA20	148		XA21	106			
1350	30									30

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AMPEX		AmpeX Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739		WIRE ROUTING LIST		1409725 34 SHEET 50		REV M
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
1351	30		XA20	145		XA21	152	LSB H COEFF 5		30
1352				144			151			
1353				143			150			
1354				142			149			
1355				141			148			
1356				140			146			
1357				139			145			
1358			XA20	138		XA21	144			
1359										
1360			XA20	135		XA21	161	LSB H COEFF 6		
1361				134			160			
1362				133			159			
1363				132			158			
1364				131			156			
1365				130			155			
1366				129			154			
1367			XA20	128		XA21	153			
1368										
1369			XA20	125		XA21	193	LSB H COEFF 7		
1370				124			192			
1371				123			191			
1372				122			190			
1373				121			189			
1374				120			188			
1375				119			186			
1376			XA20	118		XA21	185			
1377										
1378			XA9	195		XA10	16	LSB V COEFF 0		
1379				194			15			
1380				193			14			
1381				192			13			
1382				191			12			
1383				190			11			
1384				189			10			
1385			XA9	188		XA10	9			
1386										
1387			XA9	185		XA10	49	LSB V COEFF 1		
1388				184			48			
1389				183			46			
1390				182			45			
1391				181			44			
1392				180			43			
1393				179			42			
1394			XA9	178		XA10	41			
1395	30									30

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AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725	RFV M	
WIRE NO	GAUGE/COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
1396	30		XA9	175		XA10	58	LSB V COEFF 2		30
1397				174						
1398				173						
1399				172						
1400				171						
1401				170						
1402				169						
1403			XA9	168		XA10	50			
1404										
1405			XA9	165		XA10	105	LSB V COEFF 3		
1406				164						
1407				163						
1408				162						
1409				161						
1410				160						
1411				159						
1412			XA9	158		XA10	90			
1413										
1414			XA9	155		XA10	114	LSB V COEFF 4		
1415				154						
1416				153						
1417				152						
1418				151						
1419				150						
1420				149						
1421			XA9	148		XA10	106			
1422										
1423			XA9	145		XA10	152	LSB V COEFF 5		
1424				144						
1425				143						
1426				142						
1427				141						
1428				140						
1429				139						
1430			XA9	138		XA10	144			
1431										
1432			XA9	135		XA10	161	LSB V COEFF 6		
1433				134						
1434				133						
1435				132						
1436				131						
1437				130						
1438				129						
1439			XA9	128		XA10	153			
1440	30									30

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AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	WIRE ROUTING LIST			1409725	RFI M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
1441	30		XA9	125		XA10	193	LSB V COEFF 7		30
1442				124			192			
1443				123			191			
1444				122			190			
1445				121			189			
1446				120			188			
1447				119			186			
1448			XA9	118		XA10	185			
1449										
1450			XA21	76		XA24	146	BLOCK OFFSET H		
1451				78			145			
1452				79			144			
1453				80			143			
1454				131			142			
1455				132			141			
1456				133			140			
1457			XA21	134		XA24	139			
1458										
1459			XA21	81		XA24	156	LSB H READ ADD		
1460				82			155			
1461				83			154			
1462				84			153			
1463				85			152			
1464				86			151			
1465				88			150			
1466			XA21	89		XA24	149			
1467										
1468			XA20	81		XA24	88	LSB H FILT Ø		
1469				82			82			
1470				83			83			
1471				84			84			
1472				85			85			
1473			XA20	88		XA24	86			
1474										
1475			XA20	89		XA24	89	LSB MAG H		
1476				90			90			
1477				91			91			
1478				92			92			
1479				93			93	LSB ROT H		
1480				94			94			
1481			XA20	95		XA24	95			
1482										
1483			XA20	80		XA24	80	H BLANK		
1484										
1485	30									30

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AMPEX		AmpeX Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725 37 SHEET 50	RFV M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
1486	30		XA10	76		XA13	146	BLOCK OFFSET V		30
1487				78			145			
1488				79			144			
1489				80			143			
1490				131			142			
1491				132			141			
1492				133			140			
1493			XA10	134		XA13	139			
1494										
1495			XA10	81		XA13	156	LSB V READ ADD		
1496				82			155			
1497				83			154			
1498				84			153			
1499				85			152			
1500				86			151			
1501			XA10	88		XA13	150			
1502										
1503										
1504			XA9	81		XA13	88	LSB V FILT Ø		
1505				82			82			
1506				83			83			
1507				84			84			
1508				85			85			
1509			XA9	88		XA13	86			
1510										
1511			XA9	89		XA13	89	LSB MAG V		
1512				90			90			
1513				91			91			
1514				92			92			
1515				93			93	LSB ROT V		
1516				94			94			
1517				95			95			
1518			XA9	80		XA13	80	V BLANK		
1519			XA11	159		XA10	89	READ MSB V		
1520				158			128	W SELECT V		
1521				161			129	W 2 LSB V		
1522				160			130	W LSB V		
1523				163			59			
1524				162			60			
1525				170			61			
1526				169			62			
1527				165			63			
1528				164			64			
1529				168			65			
1530	30		XA11	166		XA10	66	MSB V WADD		30

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AMPEX		AMPEX Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739		WIRE ROUTING LIST			1409725 38 SHEET 50		DEV M
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER		
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05	
1531	30		XA10	59		XA10	143			30	
1532				60			142				
1533				61			141				
1534				62			140				
1535				63			139				
1536				64			138				
1537				65			136				
1538			XA10	66			135	MSB V W ADD			
1539			XA11	41		XA10	118	V FILT			
1540											
1541											
1542			XA22	76		XA21	128	W SEL H			
1543			XA22	94		XA21	129	W 2 LSB H			
1544			XA22	96		XA21	130	W LSB H			
1545											
1546			XA22	92		XA21	59				
1547				50			60				
1548				88			61	FILT			
1549				86			62	W ADD H			
1550				84			63				
1551				82			64				
1552				80			65				
1553			XA22	78		XA21	66				
1554											
1555			XA21	59		XA21	143				
1556				60			142				
1557				61			141				
1558				62			140	FILT			
1559				63			139	W ADD H			
1560				64			138				
1561				65			136				
1562			XA21	66		XA21	135				
1563											
1564			XA22	95		XA21	118	FILT (H)			
1565											
1566											
1567											
1568											
1569											
1570											
1571											
1572											
1573											
1574											
1575	30									30	

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WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES	TERM	STA	REF DES	TERM			-05
1576	30		XA24	130		XA23	154	LSB X2		30
1577				131			153	X3		
1578				132			152	X4		
1579				133			151	X5 C/K ADD		
1580				134			150	X6		
1581				135			149	X7 H PER II KEY PROC		
1582				136			148	X8		
1583				138			146	X9		
1584				110			155	S1		
1585				111			156	S2		
1586				112			135	S3		
1587				113			134	S4		
1588				114			133	S5		
1589				115			132	S6 Y WHOLE AX		
1590				116			131	S7 KEY WHOLE AX CHR V WHOLE PIX		
1591				118			130	S8 CHR H WHOLE PIX		
1592				119			129	S9		
1593				120			128	S10		
1594				121			126	S11		
1595				122			125	S12		
1596				123			124	S13		
1597				124			123	S14		
1598				125			122	S15		
1599				126			121	BLANK		
1600			XA24	129		XA23	136	LSB S2		
1601										
1602										
1603										
1604										
1605										
1606										
1607										
1608										
1609										
1610										
1611										
1612										
1613										
1614										
1615										
1616										
1617										
1618										
1619										
1620	30									30

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AMPEXAmplex Corporation
REDWOOD CITY, CALIFORNIA

CODE IDENT NO

92739**WIRE ROUTING LIST****1409725**

40 SHEET 50

REV

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WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
1621	30		XA23	156		XA18	88	1/16 LSP X0		30
1622				155			118	1/8		
1623				154			119	1/U		
1624				153			120	1/2		
1625				152			121	1		
1626				151			122	2 C/K AM		
1627				150			123	4		
1628				149			124	8 H KEY PROC H COL PROC		
1629				148			125	OVF		
1630				146			126	SGM		
1631				135			72	05		
1632				134			73	04		
1633				133			74	03		
1634				132			75	02		
1635				131			76	01 [CHR V WHOLE PIX - INTERNAL SHIFT]		
1636				130			78	D0 CHR H WHOLE PIX		
1637				129			79	D1		
1638				128			80	D2		
1639				126			81	D3		
1640				125			82	D4		
1641				124			83	D5		
1642				123			84	D6		
1643				122			85	D7		
1644			XA23	121			86	D8 NOT ACT BLANK CHANGE PCB		
1645			XA18	108			107	DECIM OFFSET ROMS		
1646			XA18	1		XA18	149	1/4, 1/8 ENABCR		
1647			XA23	170		XA23	167			
1648			XA18	160		XA18	159			
1649										
1650										
1651										
1652										
1653										
1564										
1655										
1656										
1657										
1658										
1659										
1660										
1661										
1662										
1663										
1664										
1665	30									30

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AMPEXAmpex Corporation
REMOVED BY CALIFORNIACODE IDENT NO
92739**WIRE ROUTING LIST****1409725**
41 SHEET 50PRV.
M

WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES	TERM	STA	REF DES	TERM			-05
1666	30		XA13	131		XA12	154	1/4 LSB		30
1667				132			153	1/2		
1668				133			152	1		
1669				134			151	2		
1670			XA13	135			150	4 C/K ADD		
1671			XA12	146			149	8		
1672			XA13	136			148	OVF V PER 11 KEY PROC		
1673				138			146	SIGN		
1674				130			155	1/8		
1675				110			156	1/10		
1676				112			135	A3		
1677				113			134	A4		
1678				114			133	A5		
1679				115			132	A6		
1680				116			131	A7		
1681				118			130	A8		
1682				119			129	A9		
1683				120			128	A10		
1684				121			126	A11		
1685				122			125	A12		
1686				123			124	A13		
1687				124			123	A14		
1688				125			122	A15		
1689			XA13	126			121	BLANK		
1690			XA12	136		XA12	137	A2		
1691										
1692										
1693										
1694										
1695										
1696										
1697										
1698										
1699										
1700										
1701										
1702										
1703										
1704										
1705										
1706										
1707										
1708										
1709										
1710	30									30

1409725

AMPEXAmper Corporation
REDWOOD CITY CALIFORNIACODE IDENT NO
92739**WIRE ROUTING LIST****1409725**
42 SHEET 50PFV
M

WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
1711	30		XA13	130		XA7	88	LSB		30
1712				131			118	1/8 CHROMA/KEY ADDRESSES		
1713				132			119	1/4 V KEY PROC		
1714				133			120	1/2 V CHROMA PROC		
1715				134			121	1		
1716			XA13	135			122	2		
1717			XA7	124			123	4		
1718			XA7	126			124	8		
1719			XA13	136			125	OVF		
1720			XA13	138			126	SIGN		
1721			XA12	135			72	A3		
1722				134			73	A4		
1723				133			74	A5		
1724				132			75	A6		
1725				131			76	A7		
1726				130			78	A8		
1727				129			79	A9		
1728				128			80	A10		
1729				126			81	A11		
1730				125			82	A12		
1731				124			83	A13		
1732				123			84	A14		
1733				122			85	A15		
1734			XA12	121			86	BLANK		
1735			XA7	108			1	DECIM OFFSET ROMS		
1736			XA7	147			149	1/4, 1/8 DISABLE		
1737			XA7	161		XA7	159			
1738										
1739										
1740										
1741										
1742										
1743										
1744										
1745										
1746										
1747										
1748										
1749										
1750										
1751										
1752										
1753										
1754										
1755	30									30

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AMPEX		CODE IDENT NO 92739		WIRE ROUTING LIST				1409725 43 SHEET 50		PFV M
WIRE NO	GAUGE/COND	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES	TERM	STA	REF DES	TERM			-05
1756	30		XA15	11		XA16	26	TWIST MEM 4 SC		30
1757			XA15	12		XA16	24			
1758										
1759			XA15	13		XA17	26	TWIST MEM 7 4 SC		
1760			XA15	14		XA17	24			
1761										
1762			XA15	15		XA2	26	TWIST MEM 1 4SC		
1763			XA15	16		XA2	24			
1764										
1765			XA15	19		XA3	26	TWIST MEM 2 4 SC		
1766			XA15	20		XA3	24			
1767										
1768			XA15	21		XA4	26	TWIST MEM 3 4 SC		
1769			XA15	22		XA4	24			
1770										
1771			XA15	23		XA23	105	TWIST H KEY PROC 4 SC		
1772			XA15	24		XA23	106			
1773										
1774			XA15	25		XA20	51	TWIST H COEFF 4 SC		
1775			XA15	26		XA20	50			
1776										
1777			XA15	29		XA21	115	TWIST H INTERP 4 SC		
1778			XA15	30		XA21	116			
1779										
1780			XA15	31		XA22	10	TWIST H PROC 4 SC		
1781			XA15	32		XA22	9			
1782										
1783			XA15	33		XA18	10	TWIST H CHR PROC 4 SC		
1784			XA15	34		XA18	9			
1785										
1786			XA15	35		XA6	26	TWIST MEM 5 4 SC		
1787			XA15	36		XA6	24			
1788										
1789			XA15	39		XA5	26	TWIST MEM 4 4 SC		
1790			XA15	40		XA5	24			
1791										
1792			XA15	41		XA24	168	TWIST H PER 11 4 SC		
1793			XA15	42		XA24	166			
1794										
1795			XA15	79		XA25	105	TWIST H PER 1 4 SC		
1796			XA15	80		XA25	106			
1797										
1798			XA15	81		XA19	26	TWIST H CHR/KEY MEM 4 SC		
1799			XA15	82		XA19	24			
1800	30									30

1409725

AMPEX		AmpeX Corporation REDWOOD CITY CALIFORNIA		CODE IDENT NO 92739		WIRE ROUTING LIST			1409725 44 SHEET 50		RFV. M
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER		
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05	
1801	30		XA15	83		XA8	26	TWIST V CHR/KEY MEM 4SC		30	
1802			XA15	84		XA8	24				
1803											
1804			XA15	85		XA1	9	TWIST IN CONT 4SC			
1805			XA15	86		XA1	10				
1806											
1807			XA15	45		XA4	18	TWIST MEM 3 12SC			
1808			XA15	46		XA4	20				
1809											
1810			XA15	49		XA3	18	TWIST MEM 2 12SC			
1811			XA15	50		XA3	20				
1812											
1813			XA15	51		XA19	18	TWIST H CHR/KEY MEM 12SC			
1814			XA15	52		XA19	20				
1815											
1816			XA15	53		XA8	18	TWIST V CHR/KEY MEM 12SC			
1817			XA15	54		XA8	20				
1818											
1819			XA15	55		XA2	18	TWIST MEM 1 12SC			
1820			XA15	56		XA2	20				
1821											
1822			XA15	59		XA6	18	TWIST MEM 5 12SC			
1823			XA15	60		XA6	20				
1824											
1825			XA15	61		XA17	18	TWIST MEM 7 12SC			
1826			XA15	62		XA17	20				
1827											
1828			XA15	63		XA5	18	TWIST MEM 4 12SC			
1829			XA15	64		XA5	20				
1830											
1831			XA15	65		XA16	18	TWIST MEM 6 12SC			
1832			XA15	66		XA16	20				
1833											
1834			XA15	69		XA18	11	TWIST H CHR PROC 24SC			
1835			XA15	70		XA18	12				
1836											
1837			XA15	71		XA7	11	TWIST V CHR PROC 24SC			
1838			XA15	72		XA7	12				
1839											
1840			XA15	75		XA11	109	TWIST V PROC 24SC			
1841			XA15	76		XA11	110				
1842											
1843											
1844											
1845	30									30	

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AMPEX		AMPEX CORPORATION REMOVED BY CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725 45 SHEET 50	RFV. M		
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER		
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05	
1846	30		XA1	11		XA11	105	]	TWIST	V PROC 4SC	30
1847			XA1	12		XA11	106]			
1848											
1849			XA1	13		XA10	115	]	TWIST	V INT 4SC	
1850			XA1	14		XA10	116]			
1851											
1852			XA1	15		XA9	51	]	TWIST	V COEFF 4SC	
1853			XA1	16		XA9	50]			
1854											
1855			XA1	18		XA13	168	]	TWIST	V PER 11 4SC	
1856			XA1	19		XA13	166]			
1857											
1858			XA1	20		XA14	105	]	TWIST	V PER 1 4SC	
1859			XA1	21		XA14	106]			
1860											
1861			XA1	22		XA7	9	]	TWIST	V CHR PROC 4SC	
1862			XA1	23		XA7	10]			
1863											
1864			XA1	24		XA12	105	]	TWIST	V KEY PROC 4SC	
1865			XA1	25		XA12	106]			
1866											
1867			XA1	163		XA15	93	]	TWIST	4SC REF	
1868			XA1	164		XA15	94]			
1869											
1870			XA1	165		XA15	95	]	TWIST	FRAME REF	
1871			XA1	166		XA15	96]			
1872											
1873			XA22	168		XA15	43			OUT REF	
1874			XA22	169		XA15	44				
1875											
1876											
1877											
1878											
1879											
1880											
1881											
1882											
1883											
1884											
1885											
1886											
1887											
1888											
1889											
1890	30										30

1409725

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739		WIRE ROUTING LIST		1409725 46 SHEET 50		RFV. M
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
1891	30		XA1	32		XA2	34	DIR		30
1892			|	31		|	32	LINE MEM 1 CTL		
1893			|	30		|	30	REF		
1894			XA1	29		XA2	148	RW		
1895										
1896			XA1	36		XA3	34	DIR		
1897			|	35		|	32	LINE MEM 2 CTL		
1898			|	34		|	30	REF		
1899			XA1	33		XA3	148	RW		
1900										
1901			XA1	42		XA4	34	DIR		
1902			|	41		|	32	LINE MEM 3 CTL		
1903			|	40		|	20	REF		
1904			XA1	39		XA4	148	RW		
1905										
1906			XA1	46		XA5	34	DIR		
1907			|	45		|	32	LINE MEM 4 CTL		
1908			|	44		|	30	REF		
1909			XA1	43		XA5	148	RW		
1910										
1911			XA1	52		XA6	34	DIR		
1912			|	51		|	32	LINE MEM 5 CTL		
1913			|	50		|	30	REF		
1914			XA1	49		XA6	148	RW		
1915										
1916			XA15	109		XA16	34	DIR		
1917			|	110		|	32	LINE MEM 6 CTL		
1918			|	111		|	30	REF		
1919			XA15	112		XA16	148	RW		
1920										
1921			XA15	116		XA17	34	DIR		
1922			|	115		|	32	LINE MEM 7 CTL		
1923			|	114		|	30	REF		
1924			XA15	113		XA17	148	RW		
1925										
1926			XA1	38		XA2	36	INPUT STORE VERY		
1927			XA2	36		XA3	36			
1928			XA3	36		XA4	36			
1929			XA4	36		XA5	36			
1930			XA5	36		XA6	36			
1931										
1932			XA15	108		XA16	36	OUTPUT STORE VERT		
1933			XA16	36		XA17	36			
1934										
1935	30									30

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AMPEX		AmpeX Corporation Redwood City, California		CODE IDENT NO 92739		WIRE ROUTING LIST			1409725 47 SHEET 50		RFV. M
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER		
		STA	REF DES	TERM	STA	REF DES	TERM			-05	
1936	30		XA15	170		XA26	160	COMP FIELD BIT		30	
1937			XA24	160		XA27	160	LLC, HLC, OUT CTL			
1938			XA15	168		XA1	126	INPUT GRID			
1939				169		XA22	13	OUTPUT GRID			
1940				128		XA22	16	OUT MEM SEL			
1941				129		XA22	15				
1942				118		XA1	68	OUT VERT			
1943				119			69	3H RW			
1944				120			70	3H REF			
1945				121			71	3H FAST			
1946				138		XA1	78	V RESET TO INPUT CTL			
1947			XA15	132		XA24	170	ADD GEN V			
1948			XA24	170		XA25	95				
1949			XA15	136		XA25	93	EARLY H TO PER I			
1950			XA15	135		XA24	172	NORM H TO PER II			
1951			XA15	134		XA20	10	LATE CK			
1952			XA20	10		XA22	11	COEF + H RPOC			
1953			XA15	131		XA22	12	H PROC V			
1954				133		XA22	105	SPG RESET			
1955				166		XA1	79	X POSE IN			
1956				139			53	H RW			
1957				140			54	H REF			
1958				141			55	H FAST			
1959				142		XA1	56	H RESET			
1960			XA15	123		XA19	42	CH RW			
1961			XA1	94		XA8	42				
1962			XA15	124		XA19	61	CH REF			
1963			XA1	96		XA8	61				
1964			XA15	125		XA19	62	CH FAST			
1965			XA1	95		XA8	62				
1966			XA15	164		XA19	72	CT0			
1967				163			74	CT1			
1968				162			76	CT2			
1969				151			58	O SET A			
1970				152		XA19	59	O SET B			
1971			XA15	150		XA26	156				
1972			XA1	74		XA11	151	2H CK			
1973				81		XA11	153	H/3H CK			
1974				72		XA11	149	PROC V RESET			
1975			XA1	73		XA13	169	CHR COL RESET			
1976			XA13	169		XA7	69	CHR COL RESET			
1977			XA13	170		XA7	68	VERT			
1978											
1979			XA7	69		XA7	70	90° RESET			
1980	30									30	

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AMPEX		AmpeX Corporation REDWOOD CITY CALIFORNIA		CODE IDENT NO 92739		WIRE ROUTING LIST			1409725 48 SHEET 50		REV. M
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER		
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05	
1981	30		XA25	96		XA25	97	H ADD GEN FUNCTS		30	
1982			XA24	96		XA24	1				
1983			XA14	96		XA14	1	V ADD GEN FUNCTS			
1984			XA13	96		XA13	97				
1985			XA1	62		XAB	72	CT0			
1986				61			74	CT1			
1987				60			76	CT2			
1988				59			58	O SETA			
1989			XA1	58		XAB	59	O SET B			
1990											
1991			XA1	63		XA19	46	RW			
1992				64		XAB	63	REF XP			
1993				64		XA19	63				
1994				65		XAB	64	FAST XP			
1995				65		XA19	64				
1996				66		XAB	68	VERT XP			
1997				66		XA19	68				
1998			XA1	72		XA13	170	ADD GEN VERT			
1999			XA13	170		XA14	95				
2000			XA1	76		XA14	93	EARLY RESET			
2001			XA1	75		XA13	172	NORM RESET			
2002			XA13	172		XA9	10				
2003			XA13	165		XA1	62				
2004			XA19	42		XA19	1				
2005			XA8	61		XA8	65	INPUT XP(N)			
2006			XA1	92		XA8	66				
2007											
2008			XA15	135		XA18	70	NORM RESET CD PROC			
2009			XA24	170		XA18	68	VERT COL PROC			
2010											
2011			XA18	71		XA18	13				
2012				13		XA18	105	NO XP IN CHR H PROC			
2013				105		XA18	107				
2014			XA18	106		XA15	164				
2015			XA7	71		XA7	105				
2016			XA7	13		XA7	1	VERT CHR XP = H			
2017			XA7	105		XA1	93				
2018											
2019			XA8	46		XA8	44	WRITE JAM HIGH			
2020			XA8	44		XA8	1				
2021											
2022			XA21	196		XA20	80				
2023			XA21	195		XA25	93	TEST CARA CONN			
2024			XA21	194		XA25	95				
2025	30									30	

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AMPEX		Amplex Corporation REDWOOD CITY CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725 49 SHEET 50	REV. M	
WIRE NO	GAUGE/ COND.	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
2026	30									30
2027										
2028										
2029										
2030										
2031			XA26	9		XA27	9	1ST0 (LSR)		
2032				10			10	1ST1		
2033				11			11	1ST2		
2034				12			12	1ST3		
2035				13			13	1ST4		
2036				14			14	1ST5		
2037				15			15	1ST6		
2038				16			16	1ST7 (INSB)		
2039				158			158	2ST0 (LSB)		
2040				159			159	2ST1		
2041				161			161	2ST2		
2042				162			162	2ST3		
2043				163			163	2ST4		
2044				164			164	2ST5		
2045				165			165	2ST6		
2046			XA26	166		XA27	166	2ST7 (INSB)		
2047										
2048										
2049										
2050										
2051			XA27	76		XA26	76	HLCCS		
2052				78			78	HLCSTRB		
2053				88			88	HLCTRL		
2054				79			79	HLD0		
2055				80			80	HLD1		
2056				81			81	HLD2		
2057				82			82	HLD3		
2058				83			83	HLD4		
2059				84			84	HLD5		
2060				85			85	HLD6		
2061				86			86	HLD7		
2062				89			89	HLD8		
2063				90			90	HLD9		
2064				91			91	HLD10		
2065				92			92	HLD11		
2066				93			93	HLD12		
2067				94			94	HLD13		
2068				95			95	HLD14		
2069			XA27	96		XA26	96	HLD15		
2070	30									30

1409725

AMPEX		Amplex Corporation REDWOOD CITY CALIFORNIA		CODE IDENT NO 92739	WIRE ROUTING LIST			1409725	DEV M	
WIRE NO	GAUGE/COND	FROM			TO			REMARKS	LM ITEM NUMBER	
		STA	REF DES.	TERM	STA	REF DES.	TERM			-05
2071	30		XA27	105		XA26	105	HLA1		30
2072				106			106	HLA2		
2073				108			108	HLA3		
2074				109			109	HLA4		
2075				110			110	HLA5		
2076				111			111	HLA6		
2077				112			112	HLA7		
2078			XA27	113		XA26	113	HLA8		
2079										
2080										
2081										
2082										
2083										
2084										
2085										
2086										
2087										
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2110										
2111										
2112										
2113										
2114										
2115	30									30

1409725

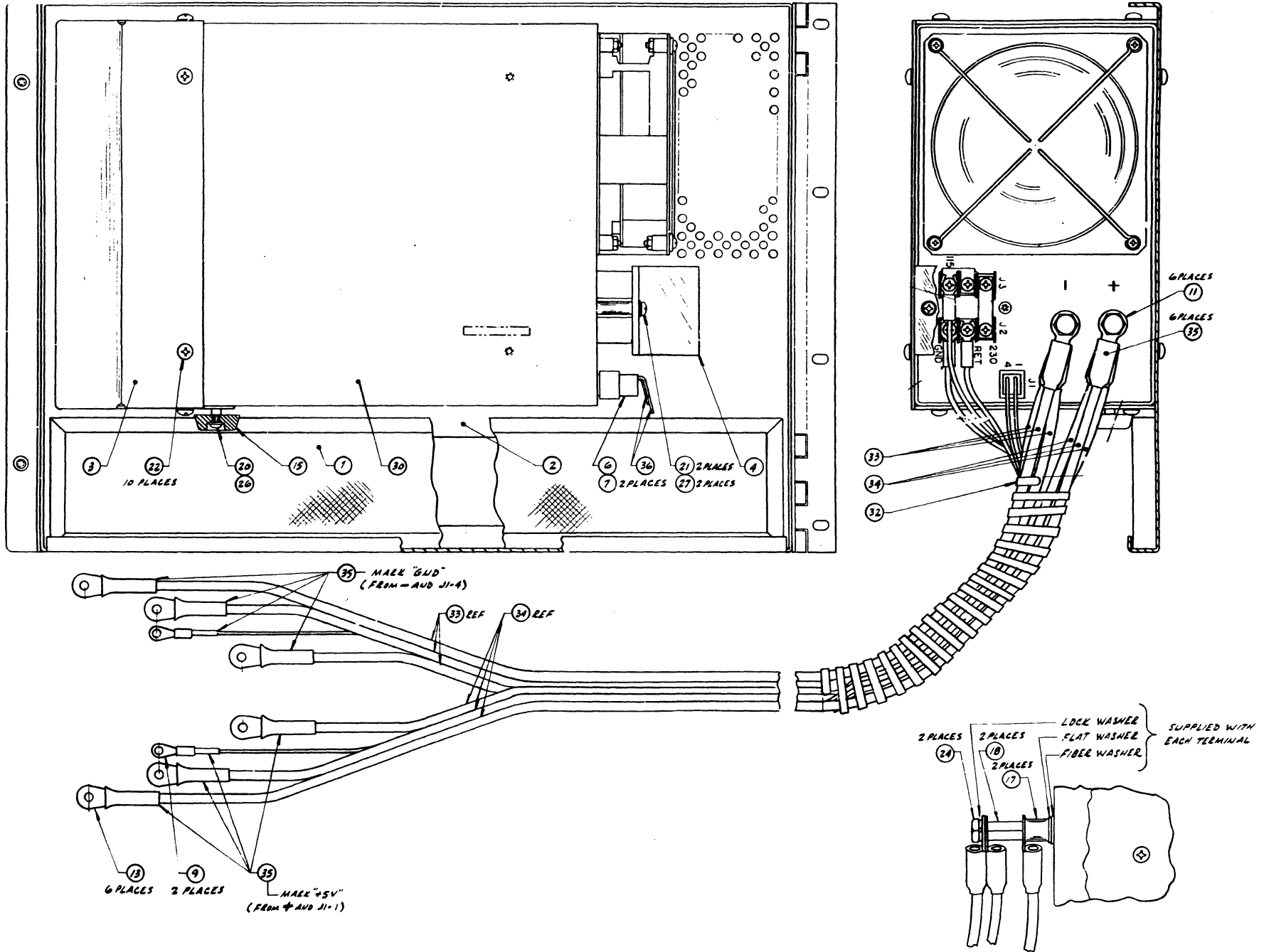
1465025-AC
1465025-AD

+5V POWER SUPPLY ASSEMBLY (120V)
+5V POWER SUPPLY ASSEMBLY (230V)

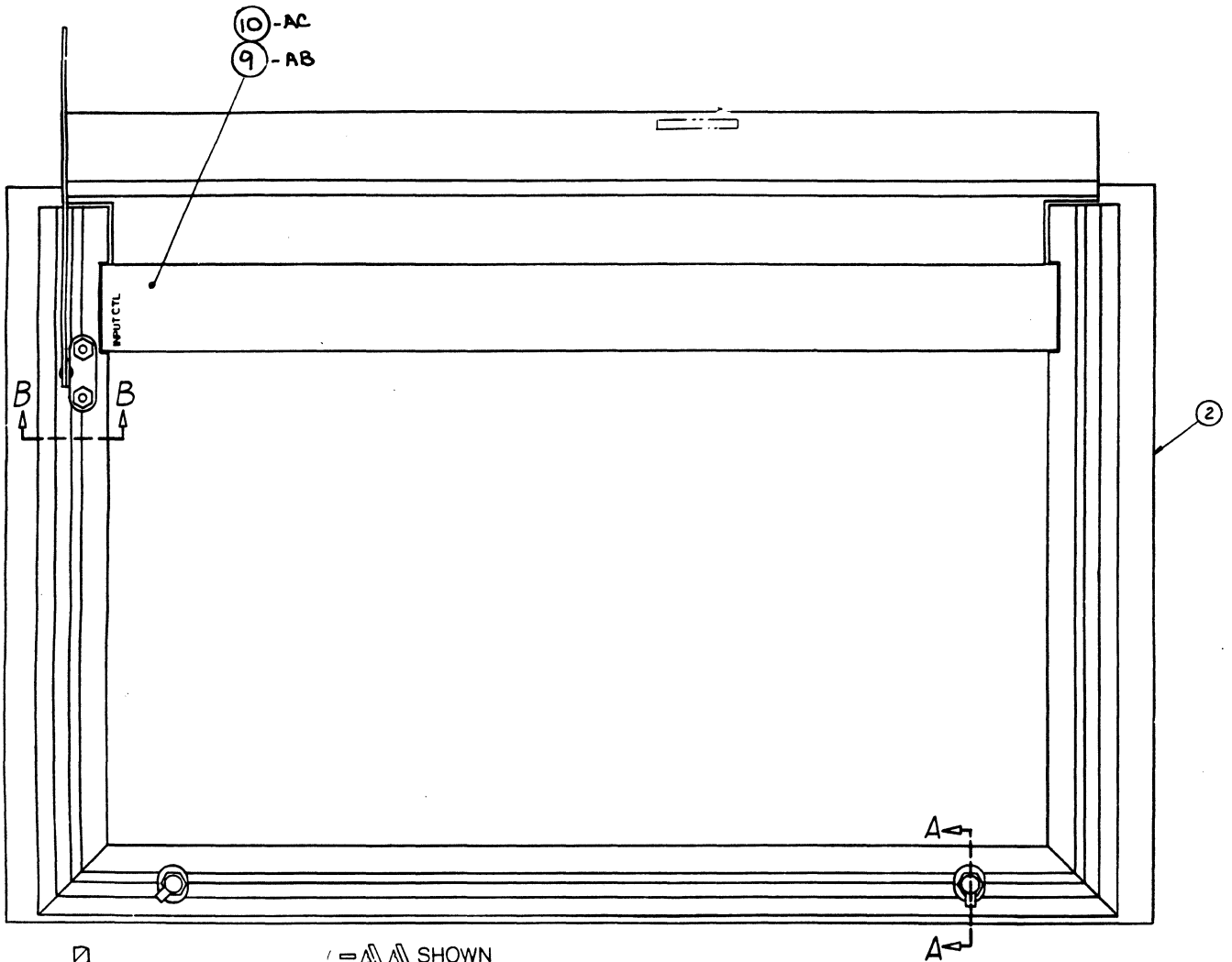
REV. B

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-AA	-AB	-AC	-AD						
1	1420401-01	FILTER, REAR		1	1	1	1						
2	1464567-01	DOOR, REAR		1	1	1	1						
3	1464983-01	DEFLECTOR, FAN EXHAUST		1	1	1	1						
4	1465000-01	GUARD, TERMINAL BLOCK		1	1	1	1						
5													
6	166-582	CONNECTOR PART, PLUG, RECTANGULAR, 6 POS		1	1	1	1						
7	167-555	CONNECTOR PART, CONTACT, PIN, MALE, 24-18 AWG		2	2	2	2						
8													
9	171-006	TERMINAL LUG, CRIMP, RING TONGUE, #8 STUD, 22-18 AWG, RED		2	2	2	2						
10	171-016	TERMINAL LUG, CRIMP, RING TONGUE, #10 STUD, 12-10 AWG, YEL		1	1	-	-						
11	172-374	TERMINAL LUG, CRIMP, RING TONGUE, 5/16 STUD, 6 AWG		6	6	6	6						
12	172-394	TERMINAL LUG, CRIMP, SPADE TONGUE, #6 STUD, 12-10 AWG, YEL		5	5	-	-						
13	172-396	TERMINAL LUG, CRIMP, RING TONGUE, #8 STUD, 6 AWG		6	6	-	-						
14													
15	250-173	BUMPER, RECESSED, RUBBER, .969 OD, .375 HIGH		1	1	-	-						
16													
17	280-187	SPACER, UNTHREADED, PLAIN, .315 ID, .437 OD, .500 LG		2	2	2	2						
18	283-529	SPACER, THREADED, PLAIN, 5/16-18, .375 AF HEX, .75 LG		2	2	2	2						
19													
20	473-326	SCREW, MACH, PAN HD., XREC DR, #4-40 X .375 LG, ASSEM WSHR		1	1	1	1						
21	473-330	SCREW, MACH, PAN HD., XREC DR, #6-32 X .250 LG, ASSEM WSHR		2	2	2	2						
22	475-072	SCREW, MACH, PAN HD., XREC DR, #8-32 X .250 LG, ASSEM WSHR		10	10	10	10						
23													
24	480-145	BOLT, MACH, HEX HD., 5/16-18, .500 LG, STEEL, CAD PLATE		2	2	2	2						
25													
26	501-008	WASHER, PLAIN, .125 ID, .312 OD, #4		1	1	1	1						
27	501-009	WASHER, PLAIN, .156 ID, .375 OD, #6		2	2	2	2						
28													
29													
30	570-584	POWER SUPPLY, SWITCHER, SINGLE OUTPUT, +5V, ±10%		1	1	1	1						
31													
32	600-070	SLEEVING, SPIRAL WRAP (22 INCHES)		A/R	A/R	A/R	A/R						
33	617-637	WIRE, STRANDED, INSULATED, 6 AWG, BLACK		A/R	A/R	A/R	A/R						
34	617-854	WIRE, STRANDED, INSULATED, 6 AWG, RED		A/R	A/R	A/R	A/R						
35		SLEEVING, SHRINKABLE		A/R	A/R	A/R	A/R						
36		WIRE, STRANDED, INSULATED, 22 AWG		A/R	A/R	A/R	A/R						
37		WIRE, STRANDED, INSULATED, 12 AWG		A/R	A/R	A/R	A/R						

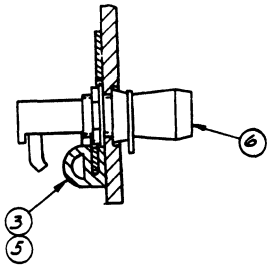
LM-1465025



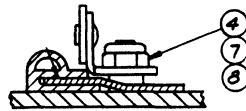
Assembly No. 1465025-AC B. +5V Power Supply Assembly (120V)
 Assembly No. 1465025-AD B. +5V Power Supply Assembly (230V)



SHOWN



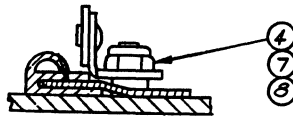
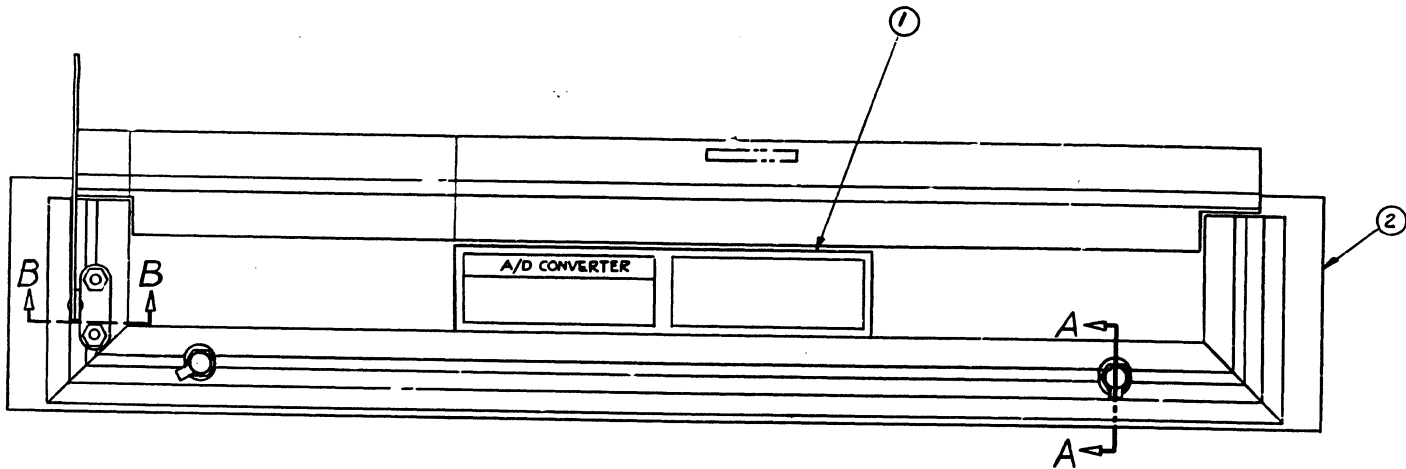
SECTION A-A



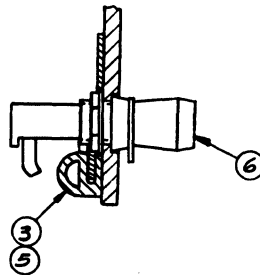
SECTION B-B

1	-	10	1420142-02	LABEL , DIGITAL DOOR	
-	1	9	1464599-01	LABEL , DIGITAL DOOR	
1	1	8	530-297	ENCLOSURE PART, SUPPORT BAR, 6.00LG	
2	2	7	493-006	NUT, LOCKING, NYLON, HEX, 6-32	
2	2	6	310-289	LATCH ASSY, ADJUSTABLE PAWL	
AR	AR	5	269-414	RUBBER, EXTRUSION, SILICONE, P SHAPE	
2	2	4	280-344	SPACER, UNTHREADED, PLAIN, #6, .250 OD, .75 LG	
AR	AR	3	087-614	ADHESIVE, BASE, SILICONE, SEALER, 1 PART, ACETIC AD	
1	1	2	1420448-02	DOOR, DIGITAL	
-	-	1	1420142-01	LABEL, DIGITAL DOOR	
AC	AB	AA	ITEM NO	PART NUMBER	DESCRIPTION
PARTS LIST					

Assembly No. 1460465-AB/AC F. Digital Door Assembly











SECTION B-B



SECTION A-A

1	1	8	530-502	ENCLOSURE PART, SUPPORT BAR, 4.31 LG
2	2	7	493-006	NUT, LOCKING, NYLON, HEX, 6-32
2	2	6	310-289	LATCH ASSY, ADJUSTABLE PAWL
AR	AR	5	269-414	RUBBER, EXTRUSION, SILICONE, P SHAPE
2	2	4	280-344	SPACER, UNTHREADED, PLAIN, 6, .250 OD, .125 LG
AR	AR	3	087-614	ADHESIVE, BASE, SILICONE, SEALER, 1 PART, ACETIC ACID
1	1	2	1420447-02	DOOR, ANALOG
-	1	1	1420443-01	LABEL, ANALOG DOOR
AB	AA	ITEM NO	PART NUMBER	DESCRIPTION
PARTS LIST				

Assembly No. 1420466-AA/AB E. Analog Door Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER					
				-01	-02	-03	-04	-05	-06
1	1420195-01	CIRCUIT BREAKER ASSY		1	-	-	-	-	-
2	1420148-01	REAR FAN ASSY		1	-	-	-	-	-
3	1420244-01	A.C. CABLE		1	-	-	-	-	-
4	1420376-01	LOWER FAN ASSY		1	-	-	-	-	-
5	1420148-02	REAR FAN ASSY 		-	1	-	-	-	-
6	1420376-02	LOWER FAN ASSY 		-	1	1	-	-	-
7	1420244-03	A.C. CABLE REF: P1		-	1	1	-	-	1
8	145-640	CONN. POWER RECPT, 3 MALE CONTACTS, 30 AMP, 125V J1		1	1	-	-	-	-
9	126-398	CIRCUIT BREAKER, 20 A, 120V 	CB1	-	1	-	-	-	-
10	070-412	FUSE PART, METRIC, CARRIER REF:F1		-	1	-	-	-	-
11	070-421	FUSE, SLO-BLO 1.5 AMP, 125V F1		-	1	-	-	-	-
12	1420195-01	120V CIRCUIT BREAKER PANEL ASSY		-	-	1	-	-	-
13	1464325-04	120V POWER SUPPLY CHASSIS ASSY		-	-	1	1	-	1
14	1420148-03	REAR FAN ASSY 		-	-	1	1	-	1
15	1465043-01	120V CIRCUIT BREAKER PANEL ASSEMBLY		-	-	-	-	-	1
16	1420376-03	120V LOWER FAN ASSEMBLY 		-	-	-	-	-	1
17	1465025-AA	+5V POWER SUPPLY ASSEMBLY 		-	-	-	-	-	-
18	1465025-AC	+5V POWER SUPPLY ASSEMBLY 		-	-	-	-	-	1
NOTES:									
		SHOWN PICTORIALY ON ASSY. 1464366.							

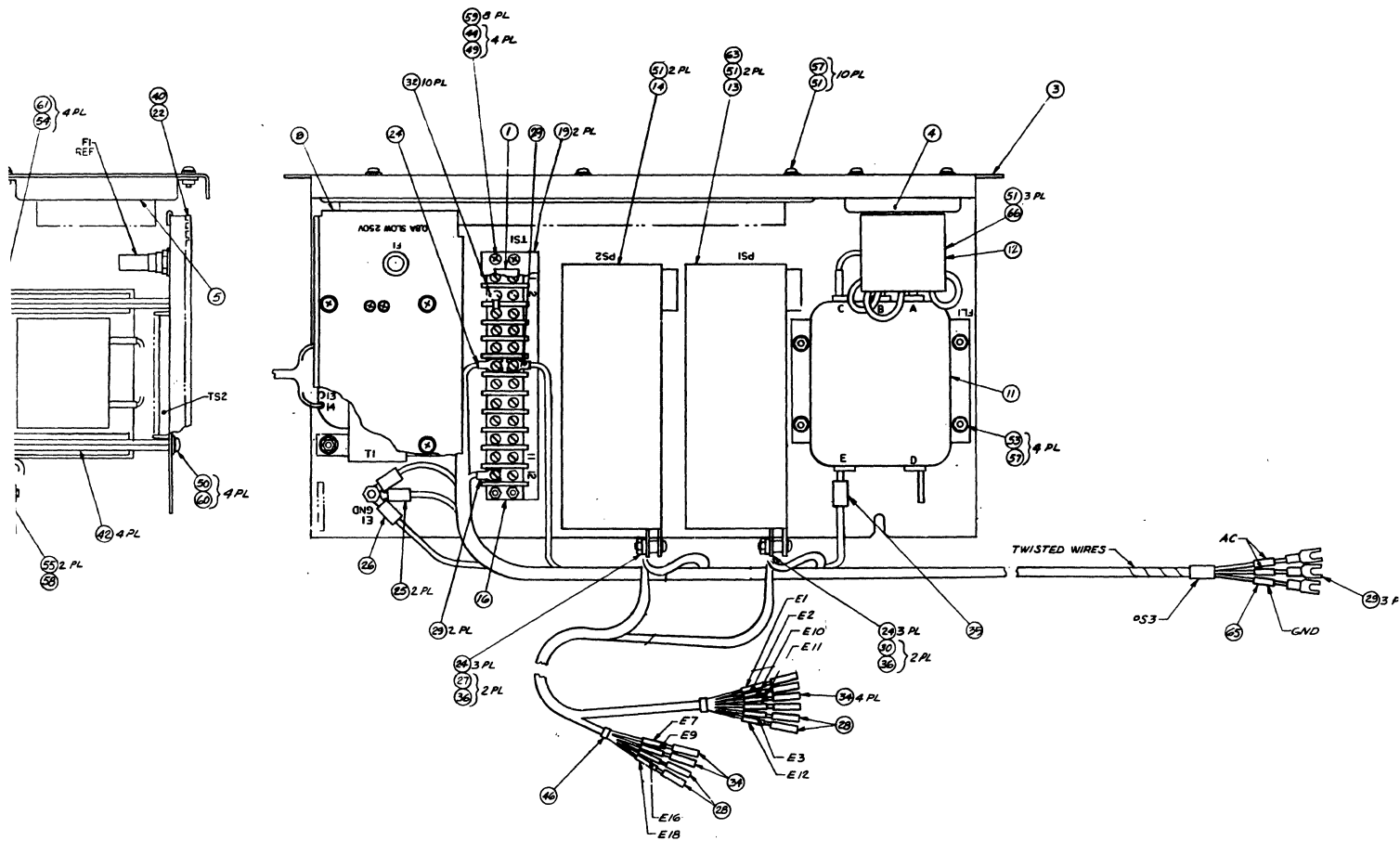
LM-1420501

ITEM NO.	PART NUMBER	E	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-01	-02	-03	-04						
1	1403328-AB		LABEL, CAUTION		1	1	1	1						
2	1420150-01		CONNECTOR PANEL ASSY											
3	1420153-01		TRAY, POWER SUPPLY		1	1	1	1						
4	1420196-01		BRACKET, POWER CONNECTOR		1	1	1	1						
5	1420150-02		CONNECTOR PANEL ASSY			1	1	1						
6	1464326-02		TRANSFORMER-TERMINAL ASSY		1	1								
7	1464327		WIRING DIAGRAM, AC & DC INTERCONNECT	(-)	(-)			C						
8	1464326-03		TRANSFORMER - TERMINAL ASSY					1						
9														
10														
11	052-259		FILTER, RF INTERFERENCE, 20 AMPS	FL1	1	1	1	1						
12	145-640		CONNECTOR POWER CIRCUIT					1						
13	570-554		POWER SUPPLY SWITCHER, 12V, 10 AMPS	PS1	1	1	1	1						
14	570-570		POWER SUPPLY SWITCHER, 5V, 20 AMPS	PS2	1	1	1	1						
15														
16	180-009		TERMINAL STRIP, BARRIER, 12 TERM	TS1	1	1	1	1						
17														
18														
19	180-392		TERMINAL STRIP PART, MARKER STRIP	TS1	2	2	2	2						
20														
21														
22	018-438		ADHESIVE, BASE, CYANOACRYLATE, 1 PART		A/R	A/R	A/R	A/R						
23														
24	171-004		TERMINAL LUG, CRIMP, 16-14 AWG, SPADE TONGUE #6		14	14	14	14						
25	171-007		TERMINAL LUG, CRIMP, 16-14 AWG, RING TONGUE #10		2	2	2	2						
26	171-016		TERMINAL LUG, CRIMP, 12-10 AWG, RING TONGUE #10			1	1	1						
27	171-019		TERMINAL LUG, CRIMP, 12-10 AWG, SPADE TONGUE #10		2	2	2	2						
28	172-363		TERMINAL QUICK DISCONNECT, 22-18 AWG, FEM		4	4	4	4						
29	172-394		TERMINAL LUG, CRIMP, 12-10 AWG, SPADE TONGUE #6		5	5	5	6						
30	172-213		TERMINAL LUG, CRIMP, 16-14 AWG, SPADE #10		2	2	2	2						
31														
32	180-142		TERMINAL STRIP PART, JUMPER CLIP		10	10	9	9						
33														
34	187-395		TERMINAL, QUICK DISCONNECT, 16-14 AWG, FEM		6	6	6	6						
35	187-396		TERMINAL, QUICK DISCONNECT, 12-10 AWG, FEM		3	3	4	4						
36	187-408		TERMINAL, QUICK DISCONNECT, 24-22 AWG, FEM		4	4	4	4						
37														

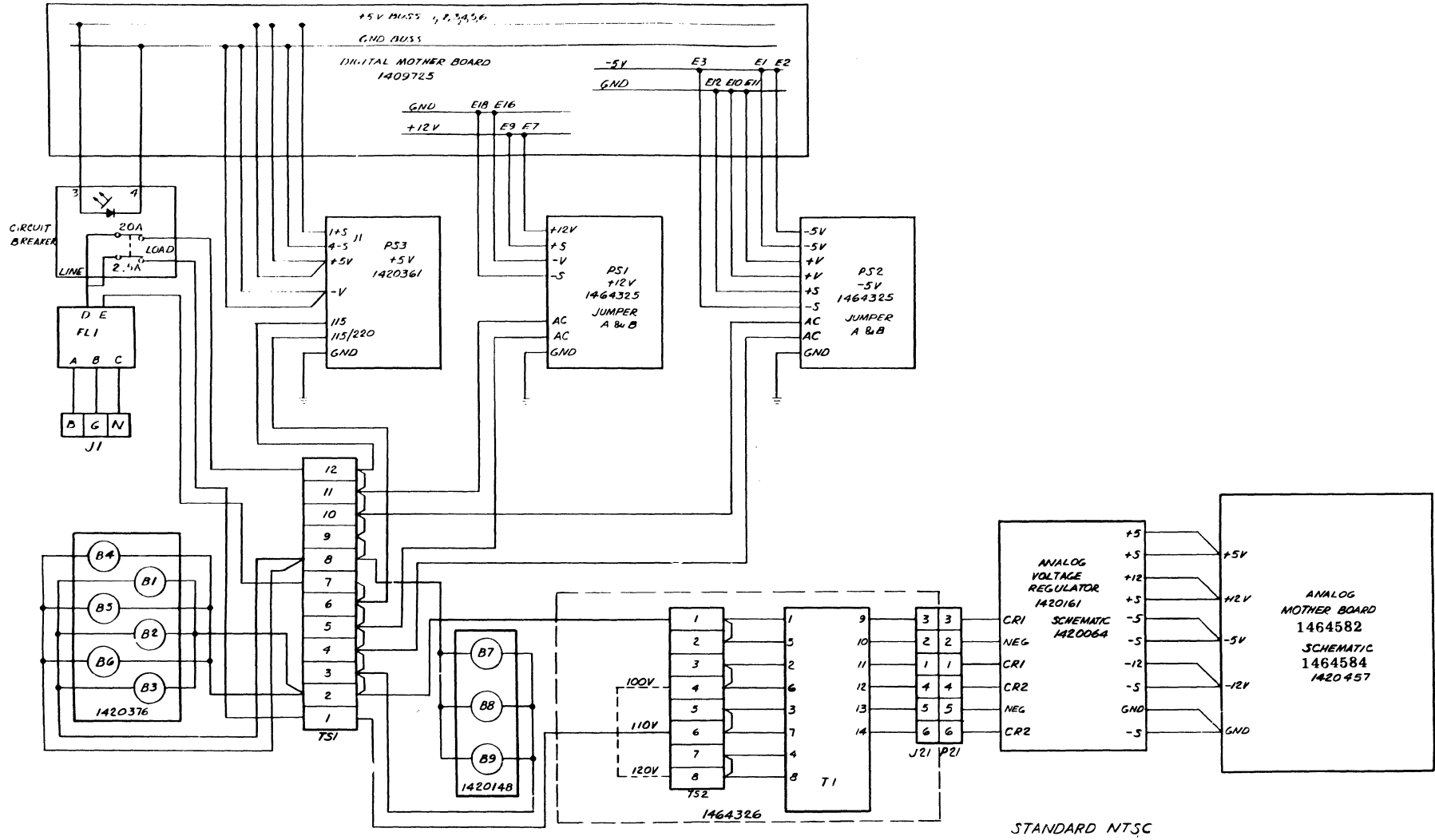
LM-1464325

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS				LM-1464325	SHEET 2 OF 3				M
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
				-01	-02	-03	-04							
38														
39														
40	260-052	GROMMET, CATERPILLAR		A	AR	A/R	A/R							
41														
42	283-464	SPACER, THD, PLAIN, HEX, 8-32 X 4.00 LG		4	4	4	4							
43														
44	280-043	SPACER, THD, PLAIN, HEX, 6-32 X .500 LG		4	4	4	4							
45														
46	302-335	STRAP, CABLE		AR	AR	A/R	A/R							
47														
48														
49	473-460	SCREW, SEM, 6-32 X .188 LG		4	4	4	4							
50	475-044	SCREW, SEM, 8-32 X .375 LG		4	4	4	4							
51	475-058	SCREW, SEM, 6-32 X .375 LG		17	17	17	17							
52														
53	496-005	NUT, KEP, 6-32		4	4	4	4							
54	496-006	NUT, KEP, 8-32		4	4	4	4							
55	496-007	NUT, KEP, 10-32		2	2	2	2							
56														
57	501-009	WASHER, PLAIN, #6		18	18	18	18							
58	501-070	WASHER, PLAIN, #10		1	1	1	1							
59	501-188	WASHER, PLAIN SMALL PATTERN, #6		8	8	8	8							
60	501-190	WASHER, PLAIN SMALL PATTERN, #8		4	4	4	4							
61	501-205	WASHER, PLAIN, #8		4	4	4	4							
62														
63	570-572	COVER, POWER SUPPLY		2	2	2	-							
64														
65				AR	AR	A/R	A/R							
66	600-143	SLEEVING, POLYOLEFIN, SHRINKABLE, 2.00 EXP, 1.D., (2.00 LG)		AR	AR	A/R	A/R							
67														
68														
69														
70														

LM-1464325



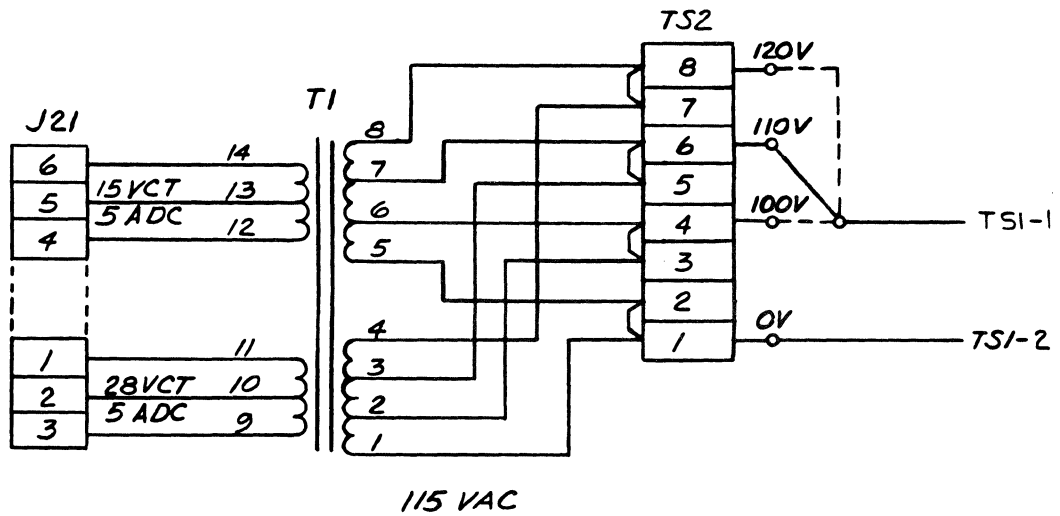
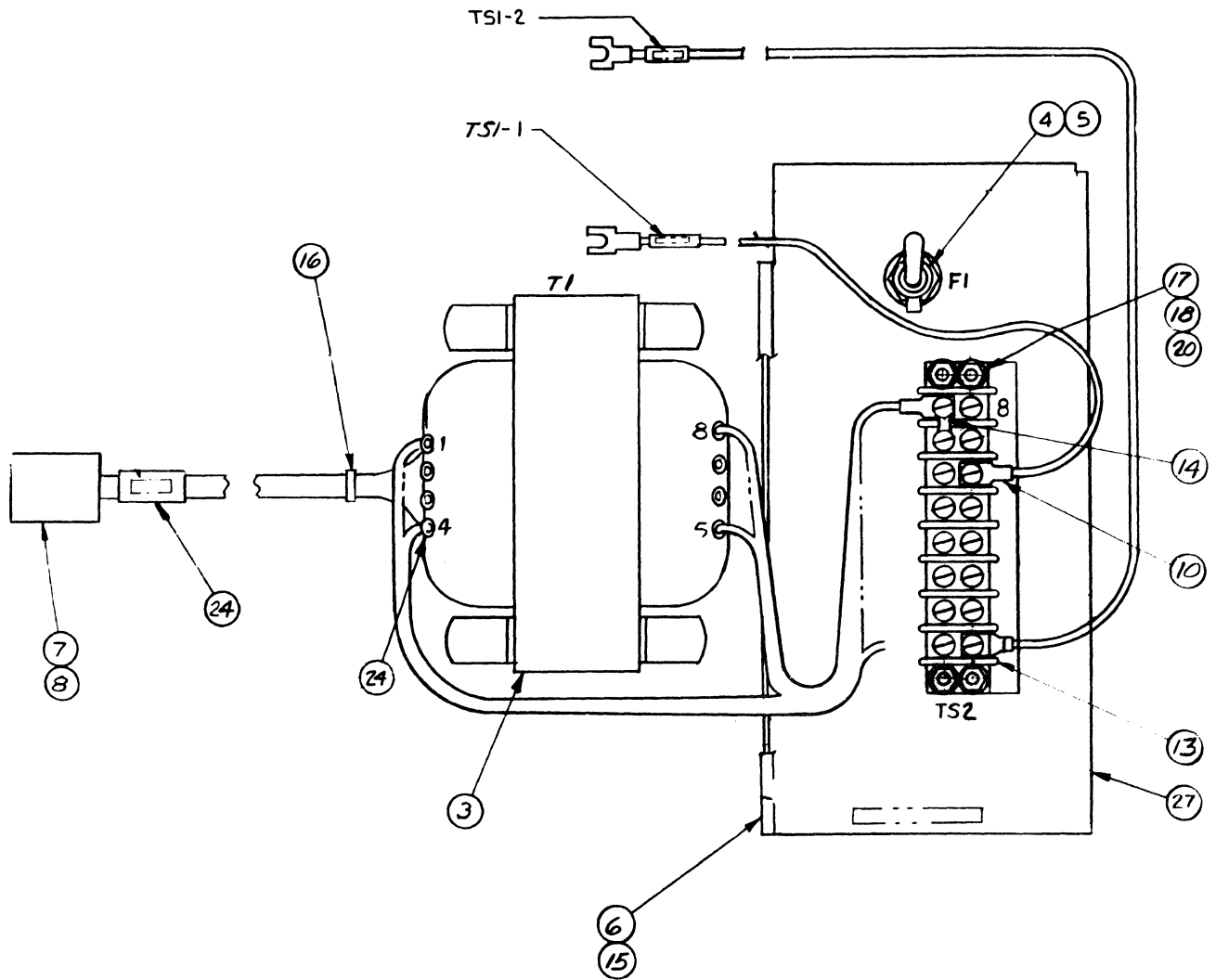
Assembly No. 1464325-04M. 120V Power Supply Chassis Assembly



Wiring Diagram No. 1464327C. AC/DC 120V Interconnect

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER															
					-01	-02	-03													
1	1420213-01		TRANSFORMER	T1			-	-												
2	1420483-01		COVER, TRANSFORMER				1	-												
3	1464374-01		TRANSFORMER	T1			1	1												
4	070-413		FUSE PART, CAP 5 X 20MM	F1				1												
5	070-411		FUSE PART, METRIC HOLDER	F1			1	1												
6	018-438		ADHESIVE, BASE CYANOARYLATE, 1 PART				A/R	A/R												
7	167-023		CONNECTOR PART, RECP, 6 POS	J21			1	1												
8	169-584		CONNECTOR PART, CONTACT, SOCKET, 16 AWG	J21	6		6	6												
9																				
10	171-004		TERMINAL LUG, CRIMP, 16 AWG, SPADE TONGUE #6			B	13	12												
11																				
12																				
13	180-162		TERMINAL STRIP, 8 POS BARRIER, W/MARKER STRIP	TS1			1	1												
14	180-673		TERMINAL, STRIP PART, JUMPER CLIP				4	4												
15	260-052		GROMMET, CATERPILLAR				A/R	A/R												
16	302-335		STRAP, CABLE				A/R	A/R	A/R											
17	471-064		SCREW, PAN HD, 4-40 X .50 LG				4	4	4											
18	496-004		NUT, KEP, 4-40				4	4	4											
19																				
20	501-008		WASHER, PLAIN, #4				4	4	4											
21																				
22																				
23																				
24			SLEEVING, SHRINKABLE				A/R	A/R	A/R											
25			WIRE, STRANDED, INSULATED 16 AWG				A/R	A/R	A/R											
26																				
27	1420483-02		COVER TRANSFORMER						1											

LM-1464326



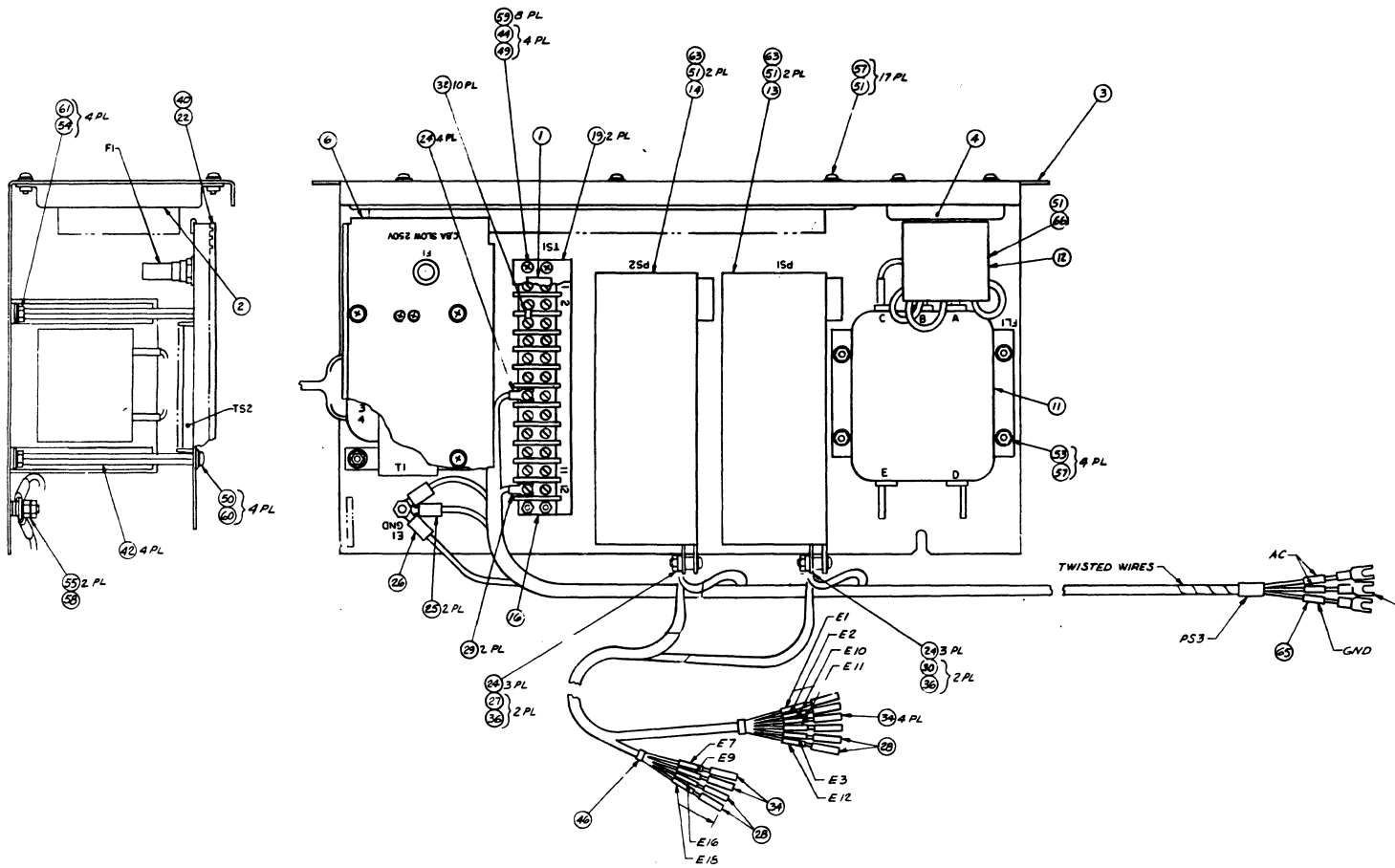
Assembly 1464326-03H. 120V Transformer Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-01																
1	1403328-AB	LABEL, CAUTION		1																
2	1420150-02	CONNECTOR PANEL ASSY		1																
3	1420153-01	TRAY, POWER SUPPLY		1																
4	1420196-01	BRACKET, POWER CONNECTOR		1																
5																				
6	1464565-01	TRANSFORMER-TERMINAL ASSY		1																
7	1464289	WIRING DIAGRAM, AC & DC INTERCONNECT	(A)																	
8																				
9																				
10																				
11	052-259	FILTER, RF INTERFERENCE, 20 AMPS	FL1	1																
12	145-636	CONN PWR RECEPT, 3 MALE CONTACTS, 30 AMP, 250V	J1	1																
13	570-554	POWER SUPPLY SWITCHER, 12V, 10 AMPS	PS1	1																
14	570-570	POWER SUPPLY SWITCHER, 5V, 20 AMPS	PS2	1																
15																				
16	180-009	TERMINAL STRIP, BARRIER, 12 TERM	TS1	1																
17																				
18																				
19	180-392	TERMINAL STRIP PART, MARKER STPIP	TS1	2																
20																				
21																				
22	018-438	ADHESIVE, BASE, CYANOACRYLATE, 1 PART		A/R																
23																				
24	171-004	TERMINAL LUG, CRIMP, 16-14 AWG, SPADE TONGUE #6		10																
25	171-007	TERMINAL LUG, CRIMP, 16-14 AWG, RING TONGUE #10		2																
26	171-016	TERMINAL LUG, CRIMP, 12-10 AWG, RING TONGUE #10		1																
27	171-019	TERMINAL LUG, CRIMP, 12-10 AWG, SPADE TONGUE #10		2																
28	172-363	TERMINAL QUICK DISCONNECT, 22-18 AWG, FEM		4																
29	172-394	TERMINAL LUG, CRIMP, 12-10 AWG, SPADE TONGUE #6		5																
30	172-213	TERMINAL LUG, CRIMP, 16-14 AWG, SPADE #10		2																
31																				
32	180-142	TERMINAL STRIP PART, JUMPER CLIP		10																
33																				
34	187-395	TERMINAL, QUICK DISCONNECT, 16-14 AWG, FEM		6																
35	187-396	TERMINAL, QUICK DISCONNECT, 12-10 AWG, FEM		3																
36	187-408	TERMINAL, QUICK DISCONNECT, 24-22 AWG, FEM		4																
37																				

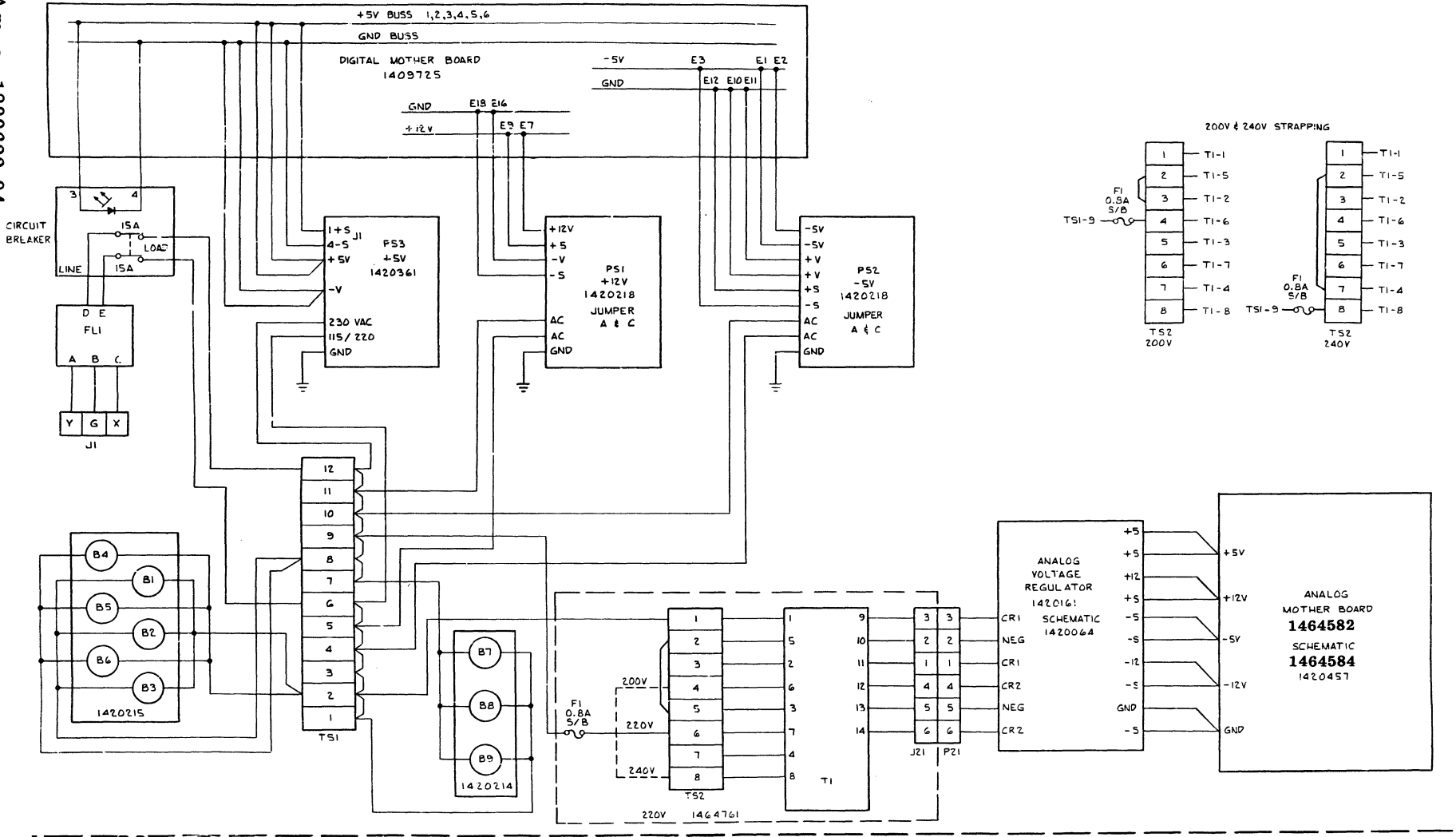
LM-1420218

AMPEX | Ampex Corporation Redwood City, California			CODE IDENT NO. 92739	LIST OF MATERIALS		LM-1420218	REV C															
					2 SHEET 3																	
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER																		
				-01																		
38																						
39																						
40	260-052	GROMMET, CATERPILLAR		AR																		
41																						
42	283-464	SPACER, THD, PLAIN, HEX, 6-32 X 4.00 LG		4																		
43																						
44	280-043	SPACER, THD, PLAIN, HEX, 6-32 X .500 LG		4																		
45																						
46	302-335	STRAP, CABLE		AR																		
47																						
48																						
49	473-460	SCREW, SEM, 6-32 X .188 LG		4																		
50	475-044	SCREW, SEM, 8-32 X .375 LG		4																		
51	475-058	SCREW, SEM, 6-32 X .375 LG		17																		
52																						
53	496-005	NUT, KEP, 6-32		4																		
54	496-006	NUT, KEP, 8-32		4																		
55	496-007	NUT, KEP, 10-32		2																		
56																						
57	501-009	WASHER, PLAIN, #6		17																		
58	501-070	WASHER, PLAIN, #10		1																		
59	501-188	WASHER, PLAIN SMALL PATTERN, #6		8																		
60	501-190	WASHER, PLAIN SMALL PATTERN, #8		4																		
61	501-205	WASHER, PLAIN, #8		4																		
62																						
63	570-572	COVER, POWER SUPPLY		-																		
64																						
65		SLEEVING, SHRINKABLE		AR																		
66	600-143	SLEEVING, POLYOLEFIN, SHRINKABLE, 2.00 EXP, I.D., (2.00LG)		AR																		
67		WIRE, STRANDED, INSULATED, 22 AWG		AR																		
68		WIRE, STRANDED, INSULATED, 12 AWG		AR																		
69		WIRE, STRANDED, INSULATED, 14 AWG		AR																		
70																						

LM-1420218



Assembly No. 1420218-01C. 230V Power Supply Chassis Assembly

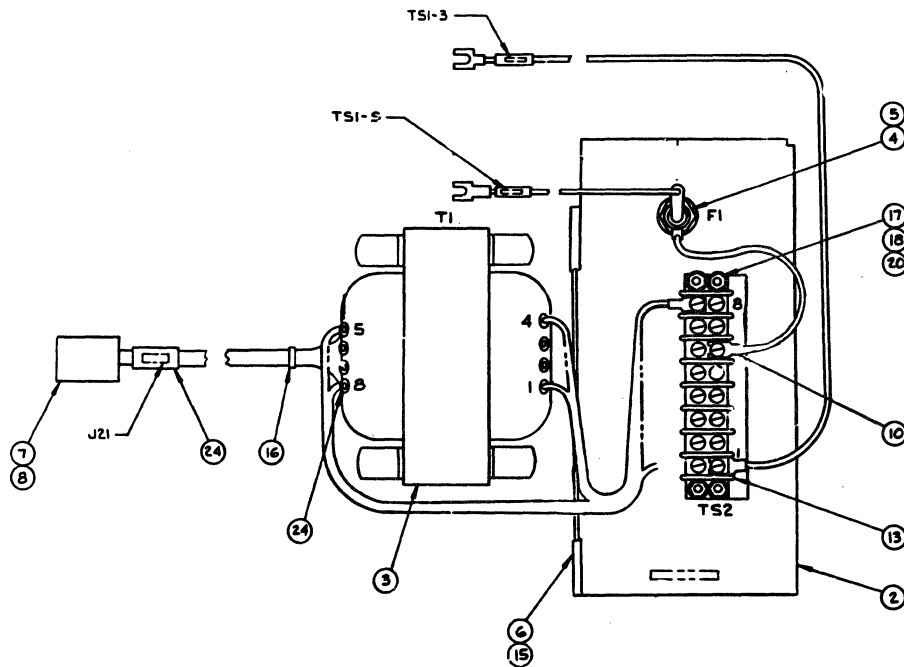
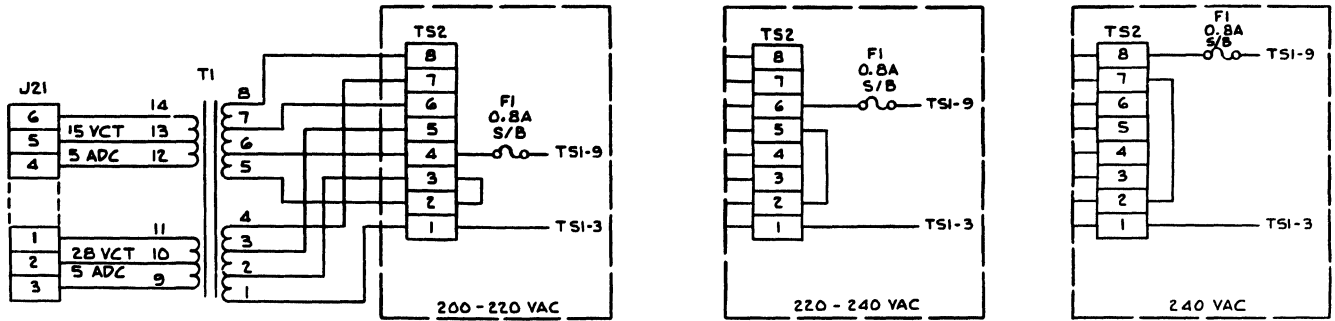


Wiring Diagram No. 1464289A. AC/DC 230V Interconnect

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01											
1															
2	1420483-02	COVER, TRANSFORMER		1											
3	1464374-01	TRANSFORMER	T1	1											
4	070-413	FUSE PART, CAP, 5 X 20mm	F1	1											
5	070-411	FUSE PART, METRIC HOLDER	F1	1											
6	018-438	ADHESIVE, BASE CYANOARYLATE, 1 PART		A/R											
7	167-023	CONNECTOR PART, RECP, 6 POS	J21	1											
8	169-584	CONNECTOR PART, CONTACT, SOCKET, 16 AWG	J21	6											
9	070-473	FUSE, SLO-BLO, 0.8 AMP, 250V		1											
10	171-004	TERMINAL LUG, CRIMP, 16 AWG, SPADE TONGUE #6		14											
11															
12															
13	180-162	TERMINAL STRIP, 8 POS BARRIER, W/MARKER STRIP	TS1	1											
14															
15	260-052	GROMMET, CATERPILLAR		A/R											
16	302-335	STRAP, CABLE		A/R											
17	471-064	SCREW, PAN HD., #4-40 X .50 LG		4											
18	496-004	NUT, KEP, #4-40		4											
19															
20	501-008	WASHER, PLAIN, #4		4											
21															
22															
23															
24		SLEEVING, SHRINKABLE		A/R											
25		WIRE, STRANDED, INSULATED 16 AWG		A/R											



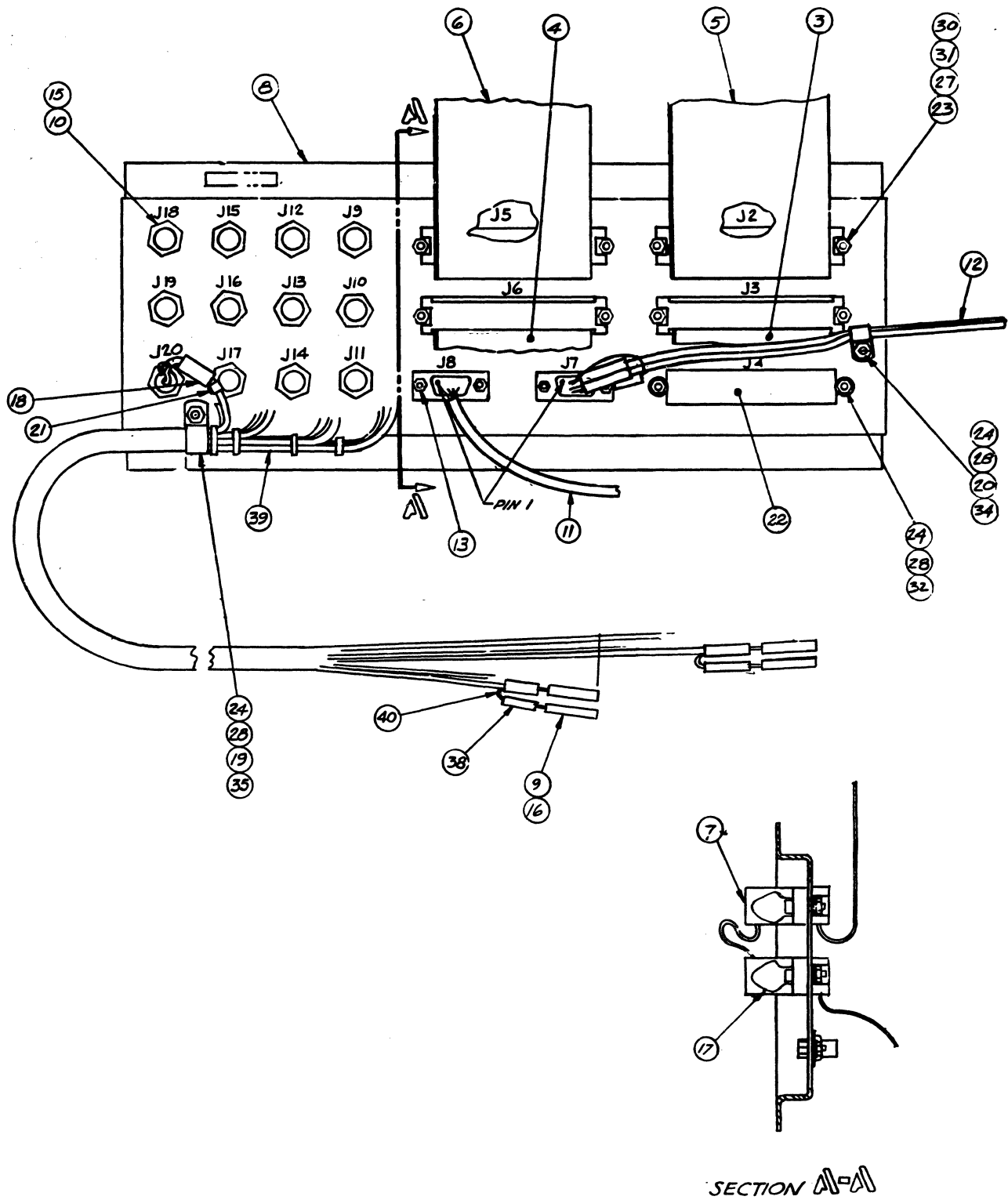
LM-1464565



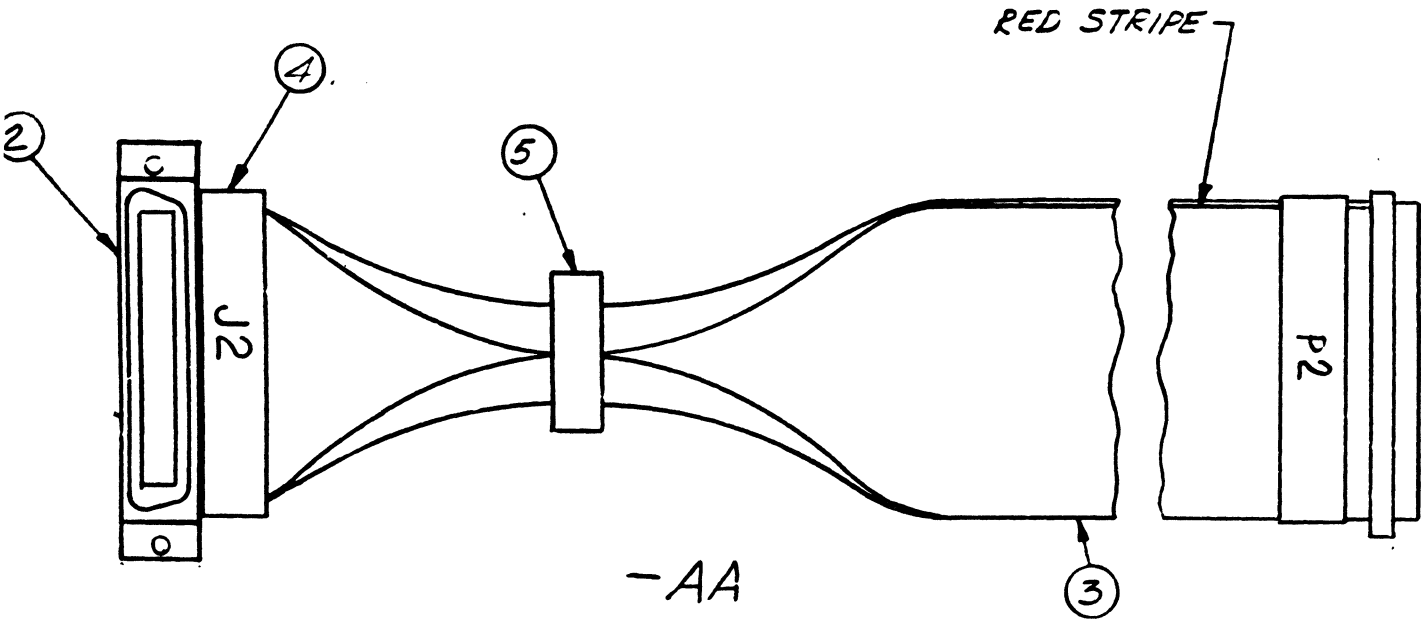
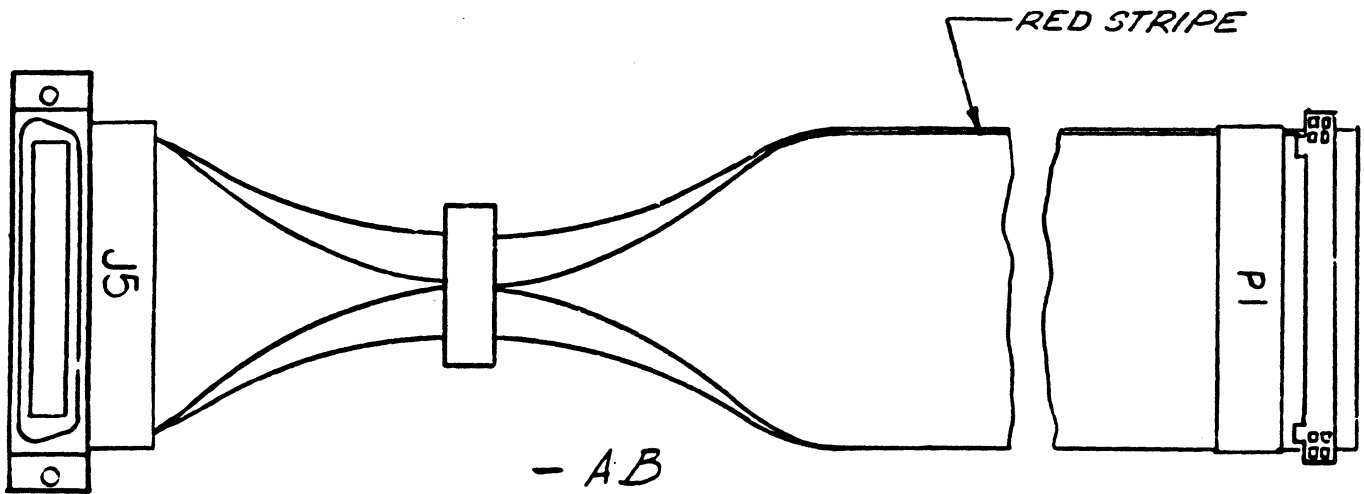
Assembly No. 1464565-01B. 230V Transformer Assembly

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER															
					-01	-02														
1	1420151-01		PANEL, CONNECTOR			-														
2	1420239-01		COVER, CONNECTOR HOLE			-														
3	1420314-AA		CABLE, INTERCONNECT, DIGITAL MOTHER BD.	J3		1														
4	1420314-AB		CABLE, INTERCONNECT, DIGITAL MOTHER BD.	J6		1														
5	1420315-AA		CABLE, INTERCONNECT, ANALOG MOTHER BD.	J2		1														
6	1420315-AB		CABLE, INTERCONNECT, ANALOG MOTHER BD.	J5		1														
7	1420316-01		CABLE, JUMPER		2	2														
8	1464492-01		PANEL, CONNECTOR			-	1													
9	139-747		CONNECTOR PART, BODY, PLUG, RECPT 1 POS		24	24														
10	139-918		CONNECTOR, SIG CIRCUIT, RECPT, BNC TYPE	J9-18	12	12														
11	1420454-02		CABLE, VIDEO OUTPUT PROC	J8	1	1														
12	1420455-02		CABLE, HI LEVEL CONTROL	J7	1	1														
13	167-077		CONNECTOR PART, KIT	J7,8	2	2														
14	1420457		ANALOG MOTHERBOARD, DIGITAL MOTHERBOARD WIRING DIAGRAM, AND CONNECTOR PANEL ASSEMBLY			B														
15	187-387		TERMINAL, QUICK DISCONNECT, MALE, 24/20 AWG		2	12														
16	167-227		CONNECTOR PART, CONTACT, SPRING, 26 AWG		24	24														
17	177-163		CONNECTOR PART, BAIL LOCK		4	4														
18	226-088		CORE, MAGNET, TOROIDAL		12	12														
19	302-200		CLAMP, CABLE, .38 I.D.		1	1														
20	302-308		CLAMP, CABLE, .19 I.D.		1	1														
21	302-335		STRAP, CABLE		A/R	AR														
22	1420239-AA		COVER, CONNECTOR HOLE			1														
23	470-011		SCREW, CAP. SOC. HD., 4-40 X .438 LG		8	8														
24	471-061		SCREW, PAN HD., 4-40 X .31 LG		4	4														
25																				
26																				
27	492-008		NUT, HEX, 4-40		8	8														
28	496-004		NUT, KEP, 4-40		4	4														
29																				
30	501-169		WASHER, PLAIN, SMALL, #4		8	8														
31	502-002		WASHER, SPRING LOCK, #4		8	8														
32	501-008		WASHER, PLAIN, #4		2	2														
33																				
34	506-027		WASHER D, #6, .438 WD X .406 LG			1														
35	506-013		WASHER D, #6, .578 WD X .516 LG			1														
36																				
37																				

LM-1420150

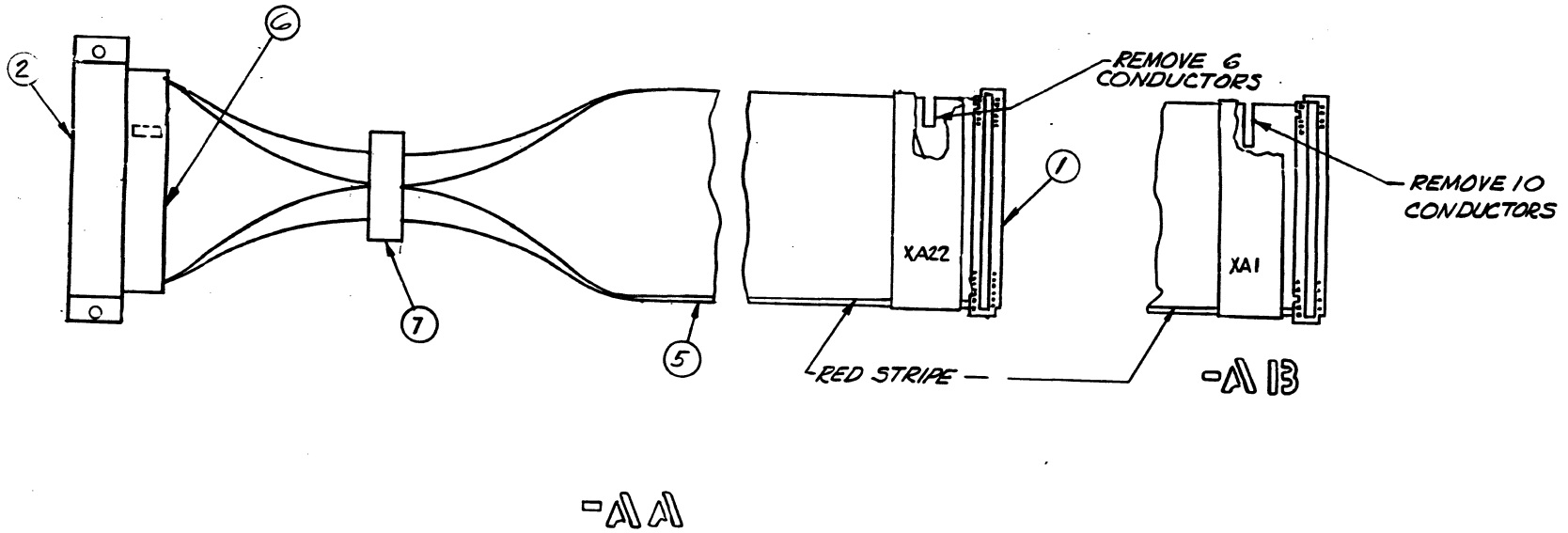


Assembly No. 1420150-02K. Connector Panel Assembly



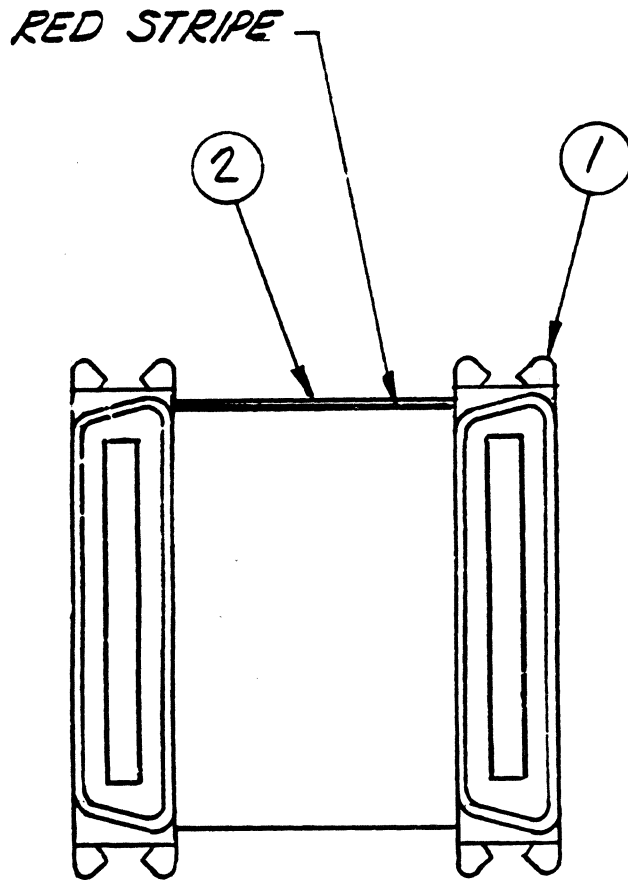
1	1	5	226-089	CORE, MAGNETIC, TOROIDAL
AR	AR	4		SLEEVING, SHRINKABLE
AR	AR	3	616-692	CABLE, RIBBON
1	1	2	140-689	CONN, SIG CKT, FLAT CABLE 50 CONTACTS
1	1	1	140-223	CONN, SIG CKT, FLAT CABLE 50 CONTACTS
AB/AA	ITEM NO	PART NUMBER		DESCRIPTION

Assembly No. 1420315-AA/AB C. Interconnect Analog Motherboard Cable



1	1	7	226-089	CORE, MAGNET, TOROIDAL
AK/A/R	6			SLEEVING, SHRINKABLE
AK/A/R	5	616-692		CABLE RIBBON
1	1	4	177-164	CONN PART, STRAIN RELIEF
		3		
1	1	2	140-689	CONN, SIG CKT, FLAT CABLE, 50 CONTACTS
1	1	1	140-276	CONN, SIG CKT, FLAT CABLE, 50 CONTACTS
AB/AA	ITEM NO.	PART NUMBER		DESCRIPTION

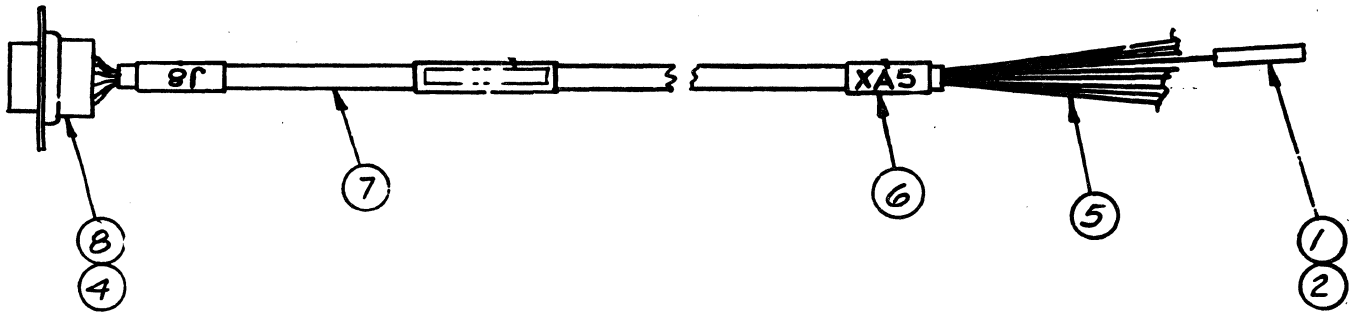
Assembly No. 1420314-AA/AB C. Interconnect Digital Motherboard Cable



AR	2	616-692	CABLE, RIBBON,
	2	140-690	CONN, SIG CKT, FLAT CABLE, 50 CONTACTS
01	ITEM NO.	PART NUMBER	DESCRIPTION

Assembly No. 1420316-01B. Jumper Cable

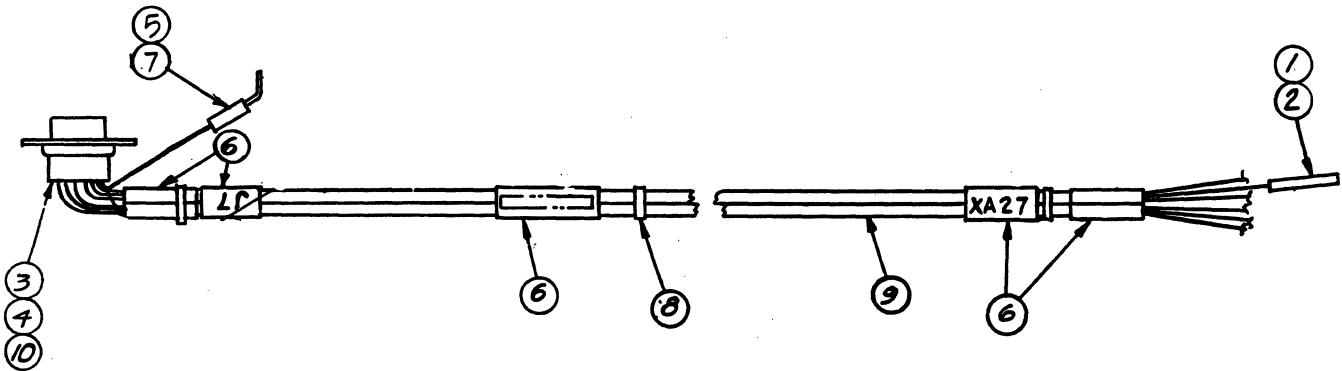
WIRE ROUTING LIST						REMARKS
WIRE NO	GAUGE/COND	FROM		TO		
		REF DES	TERM	REF DES	TERM	
1	24	JB	1	XA5	24	ANALOG MOTHER VIDEO OUTPUT PROC
2	↑	↑	2	↑	23	
3	↑	↑	3	↑	22	
4	↑	↑	4	↑	21	
5	↑	↑	5	↑	18	
6	↑	↑	6	↑	19	
7	↑	↑	7	↑	20	
8	↓	↓	8	↓	25	
9	24	JB	9	XA5	17	



9		8	167-479	CONNECTOR PART, CONTACT, SOC., .24-20AWG	JB
NR	AR	7	600-007	SLEEVING, PVC, BLACK	
NR	AR	6		SLEEVING, SHRINKABLE	
NR	AR	5		WIRE, STRANDED, INSULATED 24 AWG	
1	1	4	167-835	CONNECTOR PART, BODY, RECPT, 9 POS	JB
-	9	3	167-722	CONNECTOR PART, CONTACT, SOC, 28AWG	JB
9	9	2	167-227	CONNECTOR PART, CONTACT, SPRING, 26AWG	
9	9	1	139-747	CONNECTOR PART, BODY, PLUG, RECPT	
02	01	ITEM NO.	PART NUMBER	DESCRIPTION	

Assembly No. 1420454-02F. Video Output Processor Cable

WIRE ROUTING LIST						
WIRE NO	GAUGE/COND	FROM		TO		REMARKS
		REF	DES	TERM	REF		DES	TERM
1	COND	J7	2	XA27	70	DIGITAL MOTHER HI LEVEL CONTROL
	COND		7		68	
	SHIELD		6		67	
2	COND		3		73	HI LEVEL CONTROL
	COND		8		74	
	SHIELD		4	XA27	77	
3	24		1	J7	GND	GND AT
4	24	J7	9	J7	GND	J7 SHELL

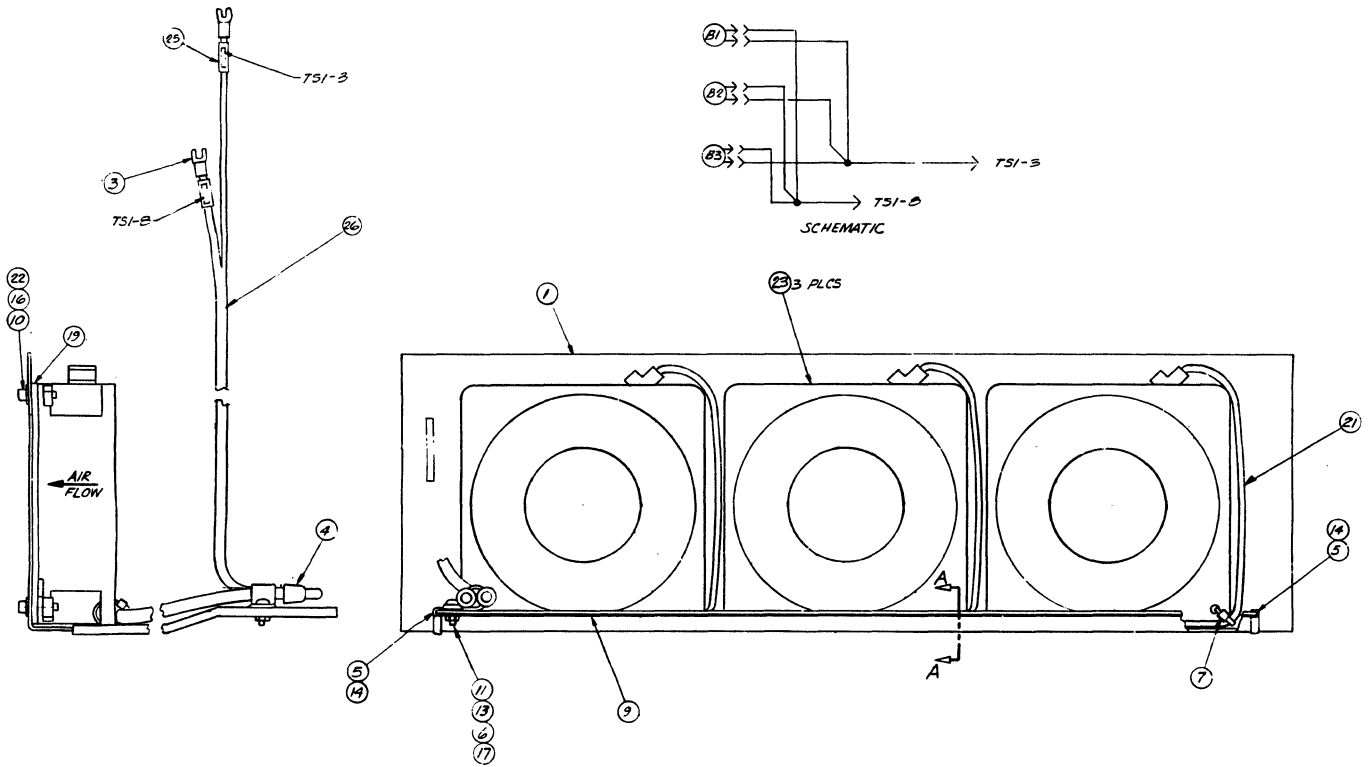


4	10	167-479	CONNECTOR PART, CONTACT, SOC., .24-20AWG	J7
NR	AP	9	616-720	CABLE, TWIN AXIAL, SHIELDED, 125 OHMS
NR	AP	8	302-335	STRAP, CABLE
2	7	172-215	TERMINAL, CRIMP, RING TONGUE, #4 STUD	
NR	AP	6		SLEEVING, SHRINKABLE
NR	AP	5		WIRE, STRANDED, INSULATED 24 AWG
1	4	167-835	CONNECTOR PART, BODY, RECPT, 9 POS	J7
4	3	167-722	CONNECTOR PART, CONTACT, SOC, 28-24AWG	J7
6	2	167-227	CONNECTOR PART, CONTACT, SPRING, 26AWG	
6	1	139-747	CONNECTOR PART, BODY, PLUG, RECT.	
02	01	ITEM NO.	PART NUMBER	DESCRIPTION

Assembly No. 1420455-02F. High Level Control Cable

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-01	-02	-03														
1	1420149-02	BRACKET, REAR FAN		1	1	1														
2																				
3	171-004	TERMINAL LUG, SPADE, #6, 16-14 AWG		2	2	2														
4	187-401	TERMINAL, SPLICE, 18-12 AWG		2	2	2														
5	260-052	GROMMET, CATERPILLAR		A/R	A/R	A/R														
6	302-200	CLAMP, CABLE, .375 ID		1	1	1														
7	302-379	STRAP, CABLE		5	5	5														
8																				
9	225-469	TAPE, POLYESTER, .007 THK, 1.00 WIDE, (32.00 IN)		A/R	A/R	A/R														
10	470-023	SCREW, CAP, HEX SOC., 6-32 X .875 LG, ALLOY STL		12	12	12														
11	471-070	SCREW, PAN HD., 6-32 X .44 LG		1	1	1														
12																				
13	496-005	NUT, KEP, 6-32		1	1	1														
14	018-438	ADHESIVE, BASE, CYANOACRYLATE, 1 PART		A/R	A/R	A/R														
15																				
16	501-009	WASHER, PLAIN, #6		12	12	12														
17	506-013	WASHER, D		1	1	1														
18																				
19	591-277	FAN PART, FINGER GUARD		3	3	3														
20	591-305	FAN UNIT, AXIAL, 115 CFM		3	-	-														
21	591-140	FAN PART, CORD SET		3	3	3														
22	591-280	FAN UNIT, MTG CLIP		12	12	12														
23	591-320	FAN UNIT, AXIAL, 115 CFM	B7,8,9	-	3	3														
24																				
25		SLEEVING, SHRINKABLE		A/R	A/R	A/R														
26	616-031	CABLE, MOLDED, 2 COND, 18 AWG		A/R	A/R	A/R														

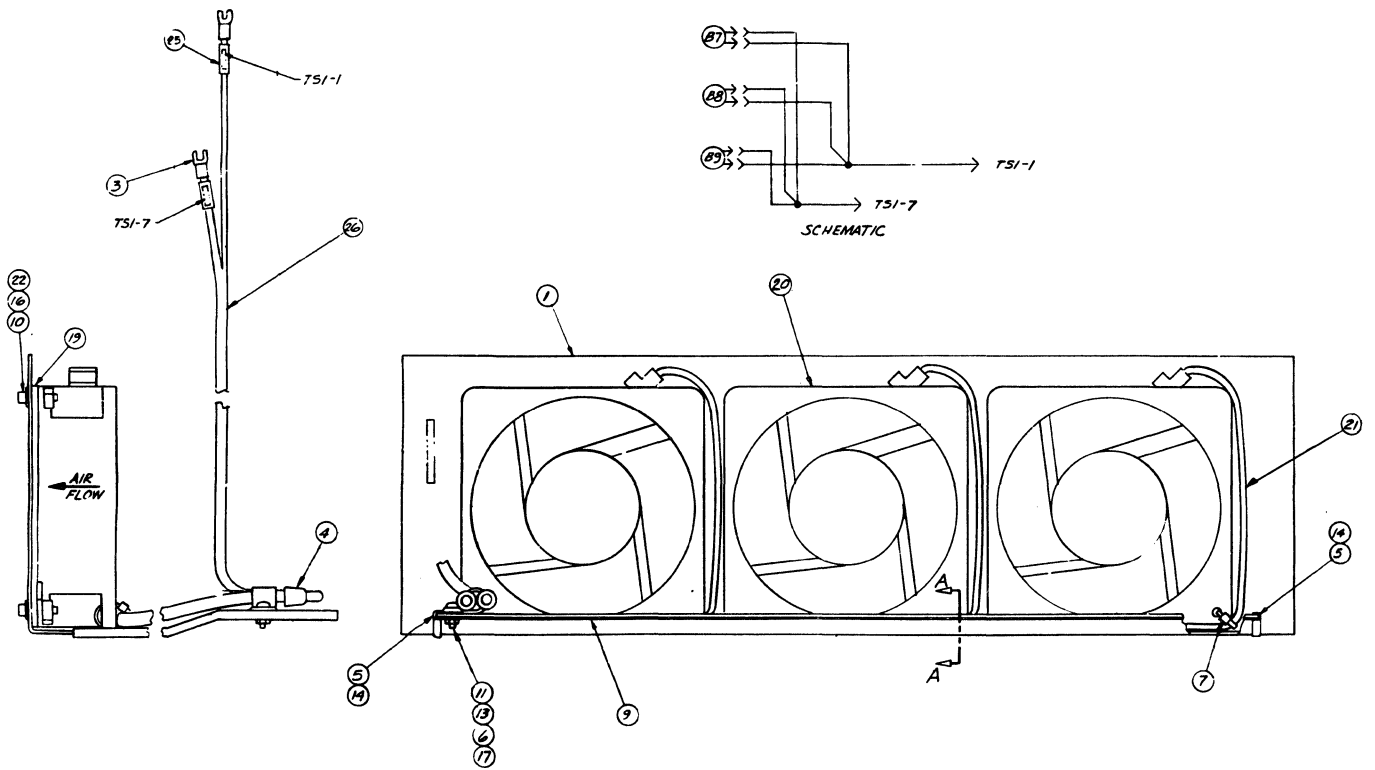
LM-1420148



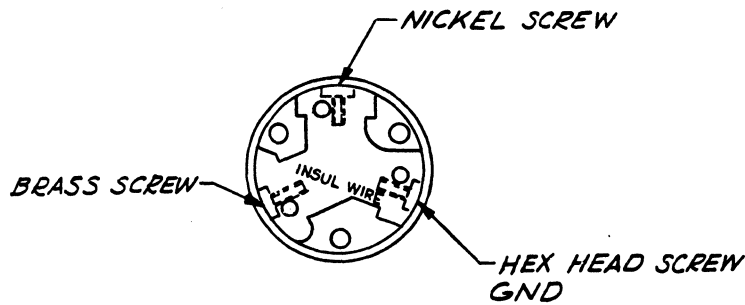
Assembly No. 1420148-03M, 120V Rear Fan Assembly

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER CASH NUMBER															
					-01															
1	1420149-02		BRACKET, REAR FAN		1															
2																				
3	171-004		TERMINAL LUG, SPADE, #6, 16-14 AWG		2															
4	187-401		TERMINAL, SPLICE, 18-12 AWG		2															
5	260-052		GROMMET, CATERPILLAR		A/R															
6	302-200		CLAMP, CABLE, .375 ID		1															
7	302-379		STRAP, CABLE		5															
8																				
9	225-469		TAPE, POLYESTER, .007 THK, 1.00 WIDE, (32.00 IN)		A/R															
10	470-023		SCREW, CAP, HEX SOC., 6-32 X .875 LG, ALLOY STL		12															
11	471-070		SCREW, PAN HD., 6-32 X .44 LG		1															
12																				
13	496-005		NUT, KEP, 6-32		1															
14	018-439		ADHESIVE, BASE, CYANOACRYLATE, 1 PART		A/R															
15																				
16	501-009		WASHER, PLAIN, #6		12															
17	506-013		WASHER, D		1															
18																				
19	591-277		FAN PART, FINGER GUARD		3															
20	591-317		FAN UNIT, AXIAL		3															
21	591-140		FAN PART, CORD SET		3															
22	591-280		FAN UNIT, MTG CLIP		12															
23																				
24																				
25			SLEEVING, SHRINKABLE		A/R															
26	616-031		CABLE, MOLDED, 2 COND, 18 AWG		A/R															

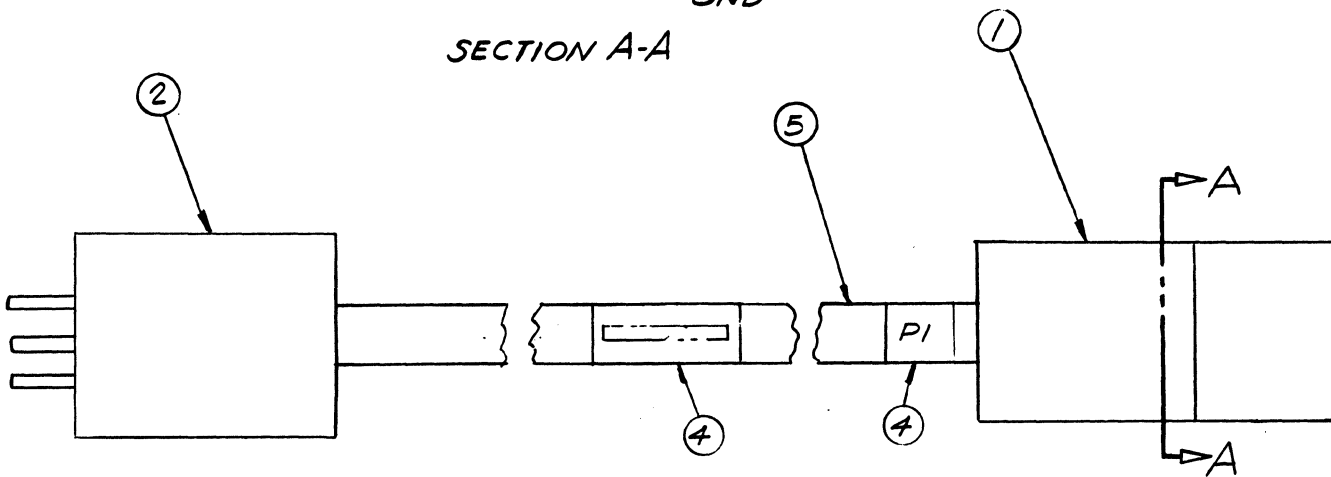
LM-1420214



Assembly No. 1420214-01C. 230V Rear Fan Assembly



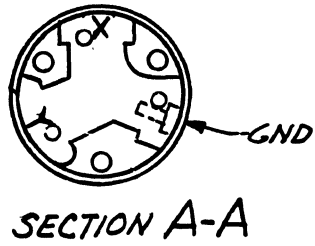
SECTION A-A



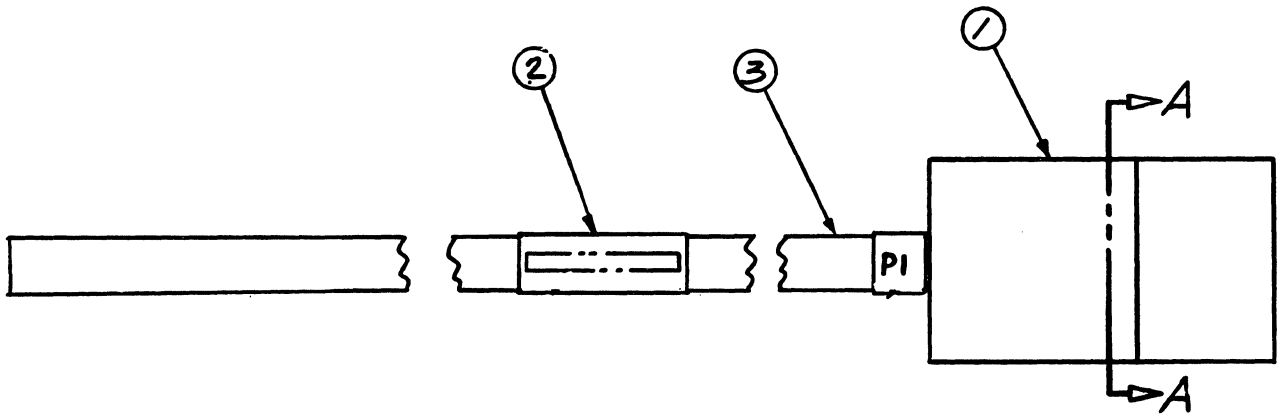
WIRE COLOR	PI	ITEM 2
0	BRASS	BRASS
9	NICKEL	NICKEL
5	GND	GND

A/2			-	5	616-015	CABLE, 3 COND., 10 AWG.
A/2	AR			4	600-097	TUBING, THERMOFIT, BLACK,
-	AR			3		CABLE, 3 COND., 12 AWG
1				2	145-639	CONNECTOR, MALE
1				1	145-637	CONNECTOR, FEMALE
-03	AR				ITEM NO.	PART NUMBER
						DESCRIPTION

Assembly No. 1420244-03E. 120V AC Cable Assembly



WIRE COLOR	PI
O	Y
X	X
5	GND

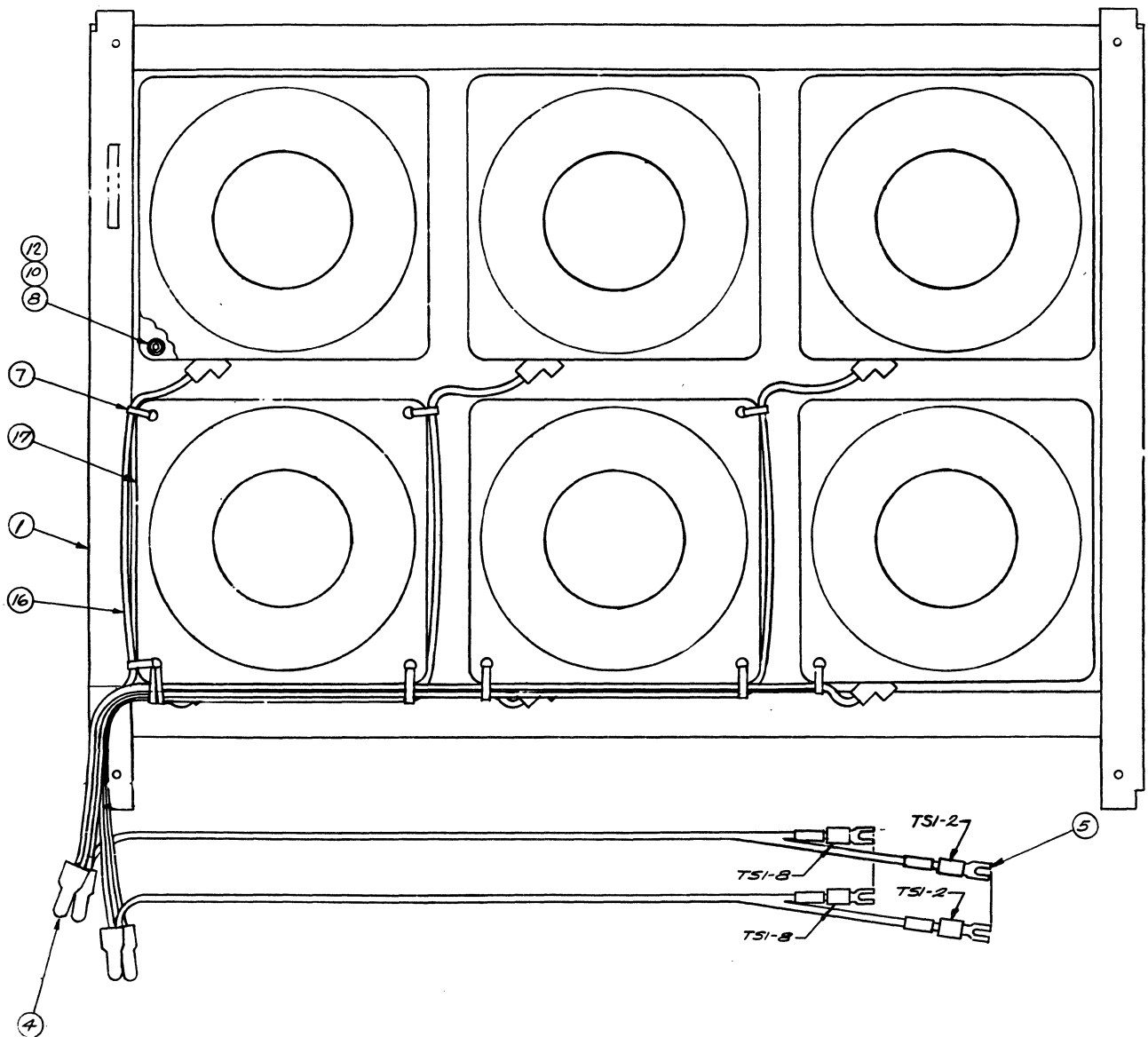
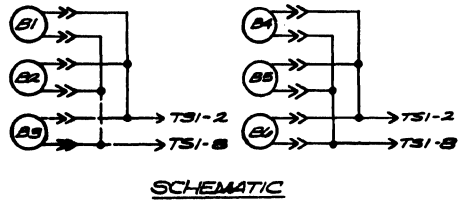


AR	3	616-042	CABLE, 3 COND, 12 AWG
AR	2	600-097	SLEEVING, SHRINKABLE, BLACK
	1	145-638	CONNECTOR, FEMALE
01	ITEM NO.	PART NUMBER	DESCRIPTION

Assembly No. 1420209-01A. 230V AC Cable Assembly

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER												
					-01	-02	-03										
1	1420375-01		PANEL, LOWER FAN		1	1	-										
2	1420375-02		PANEL, LOWER FAN				1										
3																	
4	187-401		TERMINAL, SPLICE, 18-12 AWG		4	4	4										
5	171-004		TERMINAL LUG, SPADE, #6, 16-14 AWG		4	4	4										
6																	
7	302-379		STRAP, CABLE		A/R	A/R	A/R										
8	470-021		SCREW, CAP, SOC HD., 6-32 X .62 LG		24	24	24										
9																	
10	501-009		WASHER, PLAIN #6		24	24	24										
11																	
12	502-003		WASHER, SPRING LOCK, #6		24	24	24										
13																	
14																	
15	591-305		FAN UNIT, AXIAL, 115 CFM		6	-	-										
16	591-140		FAN PART, CORD SET		6	6	6										
17	591-320		FAN UNIT, AXIAL, 115 CFM	B1-6	-	6	6										
18	616-031		CABLE, MOLDED, 2 COND, 18 AWG		A/R	A/R	A/R										
19																	
20			SLEEVING, SHRINKABLE		A/R	A/R	A/R										

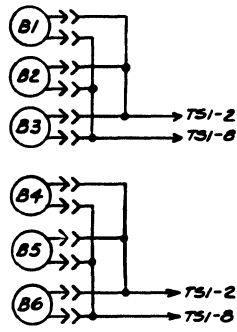
LM-1420376



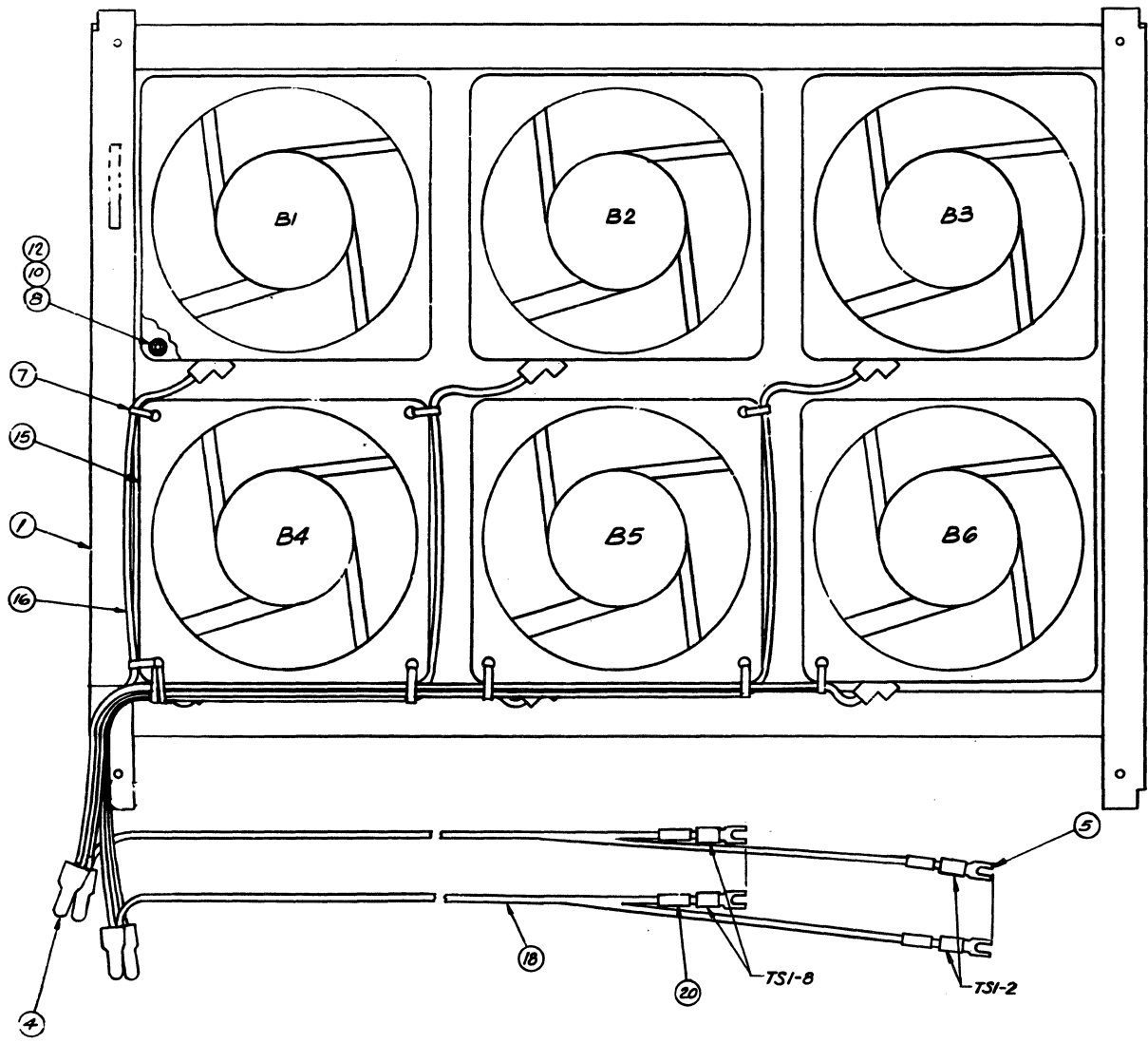
Assembly No. 1420376-03F. 120V Lower Fan Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER													
				-01	-02												
1	1420375-01	PANEL, LOWER FAN		1	-												
2	1420375-02	PANEL, LOWER FAN			1												
3																	
4	187-401	TERMINAL, SPLICE, 18-12 AWG		4													
5	171-004	TERMINAL LUG, SPADE, #6, 16-14 AWG		4													
6																	
7	302-379	STRAP, CABLE		A/R	A/R												
8	470-021	SCREW, CAP, SOC HD., 6-32 X .62 LG		24	24												
9																	
10	501-009	WASHER, PLAIN #6		24	24												
11																	
12	502-003	WASHER, SPRING LOCK, #6		24	24												
13																	
14																	
15	591-317	FAN UNIT, AXIAL	B1 THRU B6	6	6												
16	591-140	FAN PART, CORD SET		6	6												
17																	
18	616-031	CABLE, MOLDED, 2 COND, 18 AWG		A/R	A/R												
19																	
20		SLEEVING, SHRINKABLE		A/R	A/R												

LM-1420215



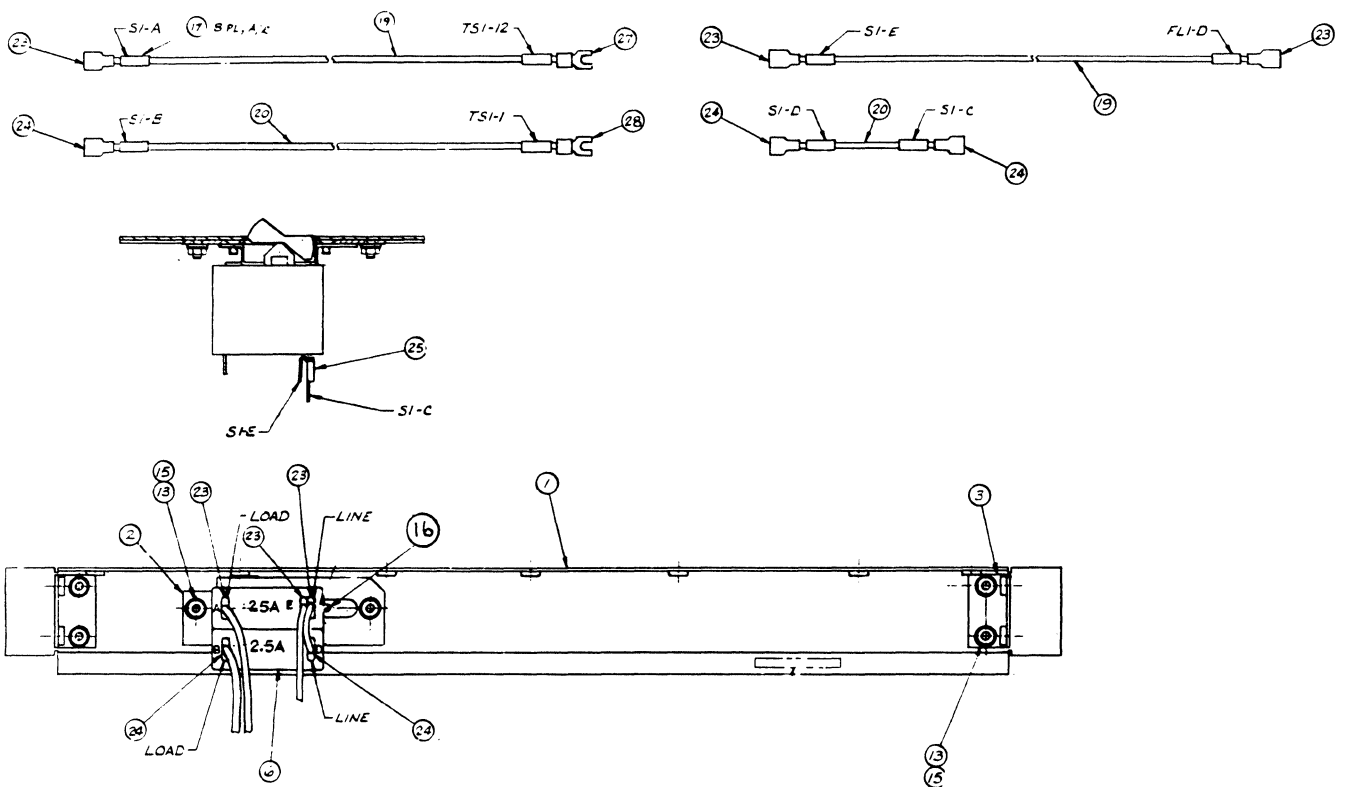
SCHMATIC



Assembly No. 1420215-02B. 230V Lower Fan Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER												
				-01												
1	1464597-01	PANEL, CIRCUIT BREAKER		1												
2	1464598-01	PLATE, MOUNT		1												
3	1420166-01	BRACKET, CIRCUIT BREAKER PANEL		2												
4																
5																
6	1465033-01	MAGNETIC, CIRCUIT BREAKER		1												
7																
8																
9																
10																
11																
12	302-379	STRAP, CABLE		A/R												
13	496-005	NUT, KEP, 6-32		6												
14	471-334	SCREW, FLAT, HD., 82°. XREC, #6-32 X .25 LG		-												
15	501-009	WASHER, PLAIN, #6		6												
16	473-309	SCREW, FLAT HD., 82°, XREC., UNDERCUT HD., 6-32 X .31 LG		2												
17	CD726	SLEEVING, SHRINKABLE		A/R												
18																
19	CD740	WIRE, STRANDED INSULATED, 10 AWG		A/R												
20	CD740	WIRE, STRANDED INSULATED, 14 AWG		A/R												
21																
22																
23	187-396	TERMINAL QUICK DISCONNECT, 10-12 AWG, YEL		3												
24	187-395	TERMINAL QUICK DISCONNECT, 14-16 AWG BLUE		3												
25	187-423	TERMINAL QUICK DISCONNECT ADAPTER		1												
26																
27	172-394	TERMINAL LUG CRIMP, SPADE, #6 STUD, #12-10 AWG		1												
28	171-004	TERMINAL LUG CRIMP, SPADE, #6 STUD, #16-14 AWG		1												

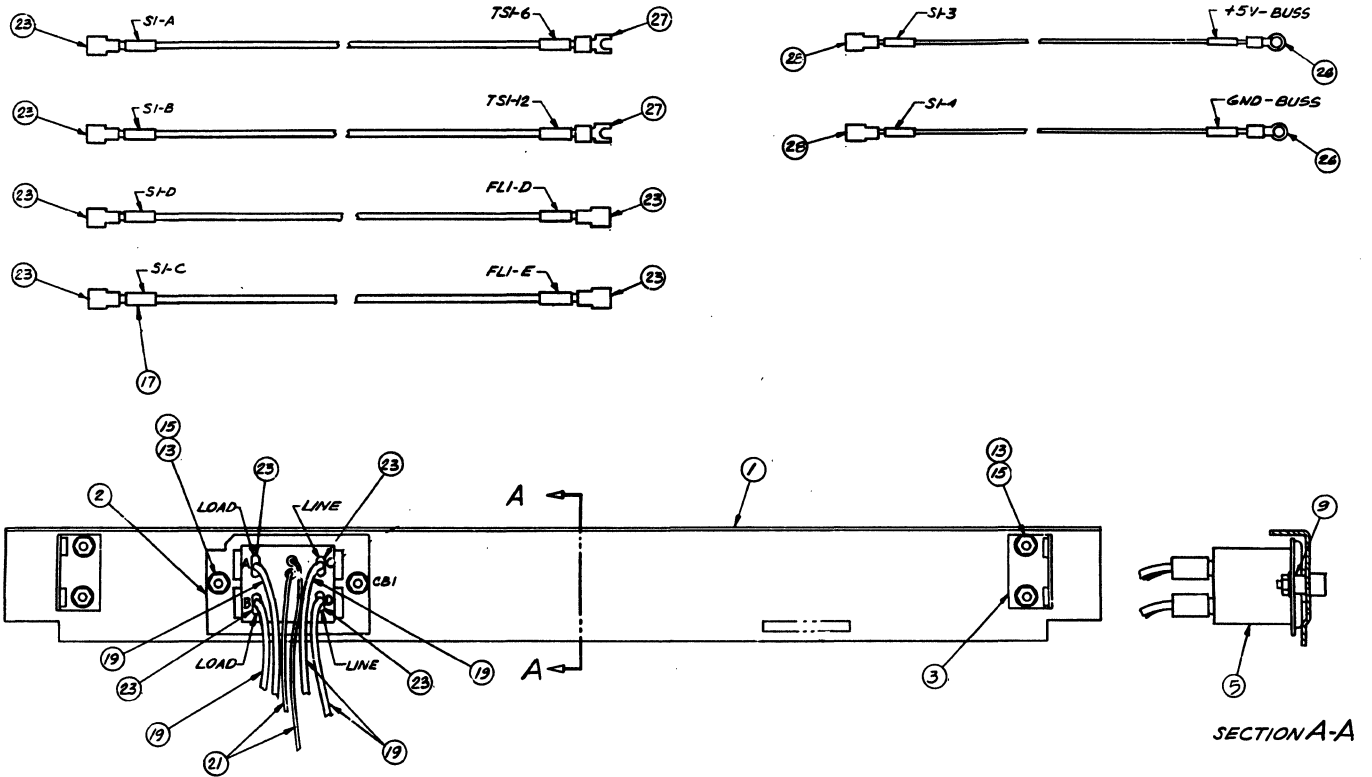
LM-1465043



Assembly No. 1465043-01A. 120V Circuit Breaker Assembly

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER															
					-01	-02														
1	1420141-01		PANEL, CIRCUIT BREAKER		1	1														
2	1420147-01		PLATE, MOUNT		1	1														
3	1420166-01		BRACKET, CKT BREAKER PANEL		2	2														
4																				
5	1464253-01		CIRCUIT BREAKER, 15 AMP, 250V	CB1		1														
6																				
7																				
8																				
9	283-400		SPACER, UNTHREADED PLAIN, .171 ID X .250 OD X .187 LG		2	2														
10																				
11																				
12	302-379		STRAP, CABLE		A/R	A/R														
13	496-005		NUT, KEP, 6-32		6	6														
14																				
15	501-009		WASHER, PLAIN, #6		6	6														
16																				
17			SLEEVING, SHRINKABLE		A/R	A/R														
18																				
19			WIRE, STRANDED INSULATED, 12 AWG		A/R	A/R														
20																				
21			WIRE, STRANDED INSULATED, 22 AWG		A/R	A/R														
22																				
23	187-396		TERMINAL QUICK DISCONNECT, 10-12 AWG, YEL		6	6														
24																				
25	187-399		TERMINAL QUICK DISCONNECT, 18-22 AWG, RED		2	-														
26	171-178		TERMINAL LUG CRIMP, RING, #10 STUD, #22-18 AWG		2	2														
27	172-394		TERMINAL LUG CRIMP, SPADE, #6 SUTD, #12-10 AWG		2	2														
28	187-358		TERMINAL, QUICK DISCONNECT, 18-22 AWG		-	2														

LM-1420217



Assembly No. 1420217-02F. 230V Circuit Breaker Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-01	-02	-03	-04	-05	-06	-07										
1																				
2																				
3	1464294	SCHEMATIC		(-)	A	B	D	E	F	J										
4	1465130-01	PWA, CLAMP DELAY					1	1	-	-	-									
5	103307-01	STAND-OFF	REF:R36,47,105,162,163	10	0	10	10	10	10	10										
6	1374388-AH	INDUCTOR, VARIABLE, 4.7 uH	L6	1	1	1	1	1	1	1										
7	1374388-AK		6.8	L1	1	1	1	1	1	1										
8	1374388-AM		12	L5	1	1	1	1	1	1										
9	1374388-AR		18	L4	1	1	1	1	1	1										
10	1374388-AT		27	L2	1	1	1	1	1	1										
11	1374388-AU	INDUCTOR, VARIABLE, 33 uH	L3	1	1	1	1	1	1	1										
12	1379491-AK	TRANSFORMER, VARIABLE, 67 uH	T1	1	1	1	1	1	1	1										
13	1400004-01	HANDLE, EXTRACTOR		1	1	1	1	1	1	1										
14	1420404-01	SHIELD, ANALOG, PWB		1	1	1	1	1	1	1										
15	1462928-AV	LABEL, HANDLE, EXTRACTOR		1	1	-	-	-	-	-										
16	1462928-AW	LABEL, HANDLE EXTRACTOR			-	1	1	1	1	1										
17	064-062	CAPACITOR, CER., .1 uF, 100V, ±20%	C3,28,62,64,85,111,112,128-130	10	0	10	10	10	10	10										
18	064-314		1 50V	C103,104	2	2	2	2	2	2										
19	064-316		2.2	C96	1	1	1	1	1	1										
20	064-652		.01	C7,51,52	3	3	3	3	3	3										
21	064-653	CAPACITOR, CER., .1 uF, 50V, ±20%	C1,2,5,9,14-16,19-22,25-27,30,31,33,40-43,48,50,53,54,57,58,60,61,63,67-69,71-73,75,79,82,83,89-92,97,100-102,105-107,109,116,120	54	54	54	54	54	54	54										
22	034-215	CAPACITOR, MICA, 10 pF, 500V, ±.5pF	C126	1	1	1	1	1	1	1										
23	034-220	CAPACITOR, MICA, 150 pF, 500V, ±1%	C29,38	2	2	2	2	2	2	2										
24	034-222		100	C32,74,84,99,110	5	5	5	5	5	5										
25	034-239		130 ±1%	C10,95	2	2	2	2	2	2										
26	034-259		56 500V ±1%	C35	1	1	1	1	1	1										
27	034-351		ø20 300V, ±1%	C127	1	1	1	1	1	1										
28	034-367		91 500V, ±1%	C122	1	1	1	1	1	1										
29	034-759		15 ±.5pF	C80,98	2	2	2	2	2	2										
30	034-919		270 ±1%	C123	1	1	1	1	1	1										
31	056-105		18 ±.5pF	C17,37,49	3	3	3	3	3	3										
32	056-164		22 ±.5pF	C77	1	1	1	1	1	1										
33	056-290		430 ±1%	C88	1	1	1	1	1	1										
34	056-291	CAPACITOR, MICA, 470 pF, 500V, ±1%	C94	1	1	1	1	1	1	1										

ILM-1464292

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1464292	REV M			
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER						
				-01	-02	-03	-04	-05	-06	-07
35	056-580	CAPACITOR, MICA, 12 pF, 500V, ±.5pF C4		1	1	1	1	1	1	1
36	056-603	CAPACITOR, MICA, 47 pF, 500V, ±.5pF C11,125		2	2	2	2	-	-	-
37	056-603	CAPACITOR, MICA, 47pF, 500V, ±.5pF C11,125,132						3	3	3
38	034-311	CAPACITOR, MICA, 1000pF, 100V, ±1% C131						1	1	1
39										
40	055-166	CAPACITOR, MYLAR, 1.000pF, 50V, ±5% C44,55,59,108,121		5	5	5	5	5	5	5
41										
42	037-591	CAPACITOR, TANT., 1.0 uF, 35V, ±20% C12,87,93,113		4	4	4	4	4	4	4
43	037-892	47 20V C13,23,24,47,65,114,124		7	7	7	7	7	7	7
44	037-901	100 20V C81		1	1	1	1	1	1	1
45	037-908	4.7 35V C118,119		2	2	2	2	2	2	2
46	037-933	10 35V C8,34,39,45,56,66,78,86,117		9	9	9	9	9	9	9
47	037-954	22 15V C36,70		2	2	2	2	2	2	2
48	037-965	CAPACITOR, TANT., 120 uF, 10V, ±20% C6,46,76,115		4	4	4	4	4	4	4
49										
50										
51	038-275	CAPACITOR, VAR., 5.5-18 pF C18		1	1	1	1	1	1	1
52										
53	013-599	DIODE, SWITCHING, CD458 CR1		1	1	1	1	1	1	1
54										
55	013-166	DIODE, ZENER, 3.3V, 1N746A VR1,3,4,6,7,9,10,11		8	8	8	8	8	8	8
56	013-312	7.5V, 1N755A VR2,5		2	2	2	2	2	2	2
57	013-313	DIODE, ZENER, 12V, 1N963B VR8		1	1	1	1	1	1	1
58										
59	051-770	FERRITE-CHOKE FL1-5		5	5	5	5	5	5	5
60										
61	000-152	INTEGRATED CIRCUIT, MC10125 U3,28,35,50		4	4	4	4	4	4	4
62	001-073	MC10101 U1		1	1	1	1	1	1	1
63	002-993	74F373 U29,56		2	2	2	2	2	2	2
64	586-204	CA3018 U46,58		2	2	2	2	2	2	2
65	586-321	CA723CT U38		1	1	1	1	1	1	1
66	587-550	MC10136 U6		1	1	1	1	1	1	1
67	589-465	LF357 U62		1	1	1	1	1	1	1
68										
69	589-685	TDS5233 U10,30,57		3	3	3	3	3	3	3
70	589-813	74LS00 U59		1	1	1	1	1	1	1
71	589-814	74LS04 U48,53		2	2	-	-	2	2	2
72	589-820	74LS74 U36,42,43,49		4	4	4	4	4	4	4
73	589-827	74LS164 U17,37		2	2	2	2	2	2	2
74	589-934	74LS221 U51		1	1	1	1	-	-	-
75	590-349	MC10145 U15,23		2	2	2	2	2	2	2
76	590-326	MC10131 U5,14,22,27,34,44		6	6	6	6	6	6	6
77	590-457	CD4053 U32,61		2	2	2	2	2	2	2
78	590-564	MC10124 U16,24,41,47		4	4	4	4	4	4	4
79	590-586	INTEGRATED, CIRCUIT, 74LS374 U8		1	1	1	1	1	1	1

LM-1464292

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1464292	SHEET 3 OF 7							REV M
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
				-01	-02	-03	-04	-05	-06	-07				
80	590-602	INTEGRATED CIRCUIT, TL082	U19,31,39,40,45,52 54,55,60	9	9	9	9	9	9	9				
81	590-606	74LS283	U7,9	2	2	2	2	2	2	2				
82	590-721	CA3046	U11,20,21,33,63	5	5	5	5	5	5	5				
83	590-734	INTEGRATED CIRCUIT, DAC08AQ	U2	1	1	1	1	1	1	1				
84	589-814	INTEGRATED CIRCUIT, 74LS04	U53			1	1							
85														
86	039-223	NETWORK, RESISTOR, 1K OHMS, 8 PIN	U4	1	1	1	1	1	1	1				
87	039-374	680 OHMS, 8 PIN	U13	1	1	1	1	1	1	1				
88	039-375	NETWORK, RESISTOR, 820 OHMS, 8 PIN	U12,18,25,26	4	4	4	4	4	4	4				
89														
90	066-660	RESISTOR, C.F., 22 OHMS, 1/4W, ±5%	R29,161,171,227	4	4	4	4	4	4	4				
91	066-662	200	R120	1	1	1	1	1	1	1				
92	066-663	220	R59,87,93,94,102,135 156,175,190,193	10	0	10	10	10	10	10				
93	066-665	1K	R16,66,80,81,85,99, 109,123,124,126,130, 142,189,219,221,232	16	6	16	16	16	16	16				
94	066-666	2.7K	R32,140,149,181,218, 220,225	7	7	7	7	7	7	7				
95	066-667	3.0K	R31,65	2	2	2	2	2	2	2				
96	066-668	4.7K	R151,152	2	2	2	2	2	2	2				
97	066-673	1 MEG	R178	1	1	1	1	1	1	1				
98	066-675	1.8K	R128,139,180	3	3	3	3	3	3	3				
99	066-689	2.2K	R18,76,160,165,214,239	6	6	6	6	6	6	6				
100	066-711	7.5K	R116	1	1	1	1	1	1	1				
101	066-712	22K	R168,174	2	2	2	2	2	2	2				
102	066-717	47K	R182,183,241	3	3	3	3	3	3	3				
103	066-810	10	R13,164	2	2	2	2	2	2	2				
104	066-811	51	R100,236	2	2	2	2	2	2	2				
105	066-812	100	R17,41, 72,73,82, 95,103,112,125,136, 138,147,169,172,176, 215,222,224,228,229	20	20	20	20	20	20	20				
106	066-813	150	R108,146,173	3	3	3	3	3	3	3				
107	066-817	430	R12	1	1	1	1	1	1	1				
108	066-818	470	R52,91,148,226	4	4	4	4	4	4	4				
109	066-821	820	R28,67,217	3	3	3	3	3	3	3				
110	066-822	910	R141	1	1	1	1	1	1	1				
111	066-824	1.5K	R19,22,84,154,210, 230	6	6	6	6							
112	066-827	3.9K	R71,86,111	3	3	3	3	3	3	3				
113	066-828	4.3K	R30	1	1	1	1	1	1	1				
114	066-829	6.8K	R88,208	2	2	2	2	2	2	2				
115	066-830	10K	R75,78,79,83,90,92, 98,110,113,114,122, 129,184,199,201,209, 231	17	17	17	17	17	17	17				
116	066-833	56K	R213	1	1	1	1	1	1	1				
117	066-838	330	R20,48	2	2	2	2	2	2	2				
118	066-839	560	R24,74,127,155,158, 216,234	7	7	7	7	7	7	7				
119	066-840	680	R15,101,104,131	4	4	4	4	4	4	4				
120	066-842	5.1K	R33,145,188	3	3	3	3	3	3	3				
121	066-849	RESISTOR, C.F., 100K OHMS, 1/4W, ±5%	R207	1	1	1	1	1	1	1				

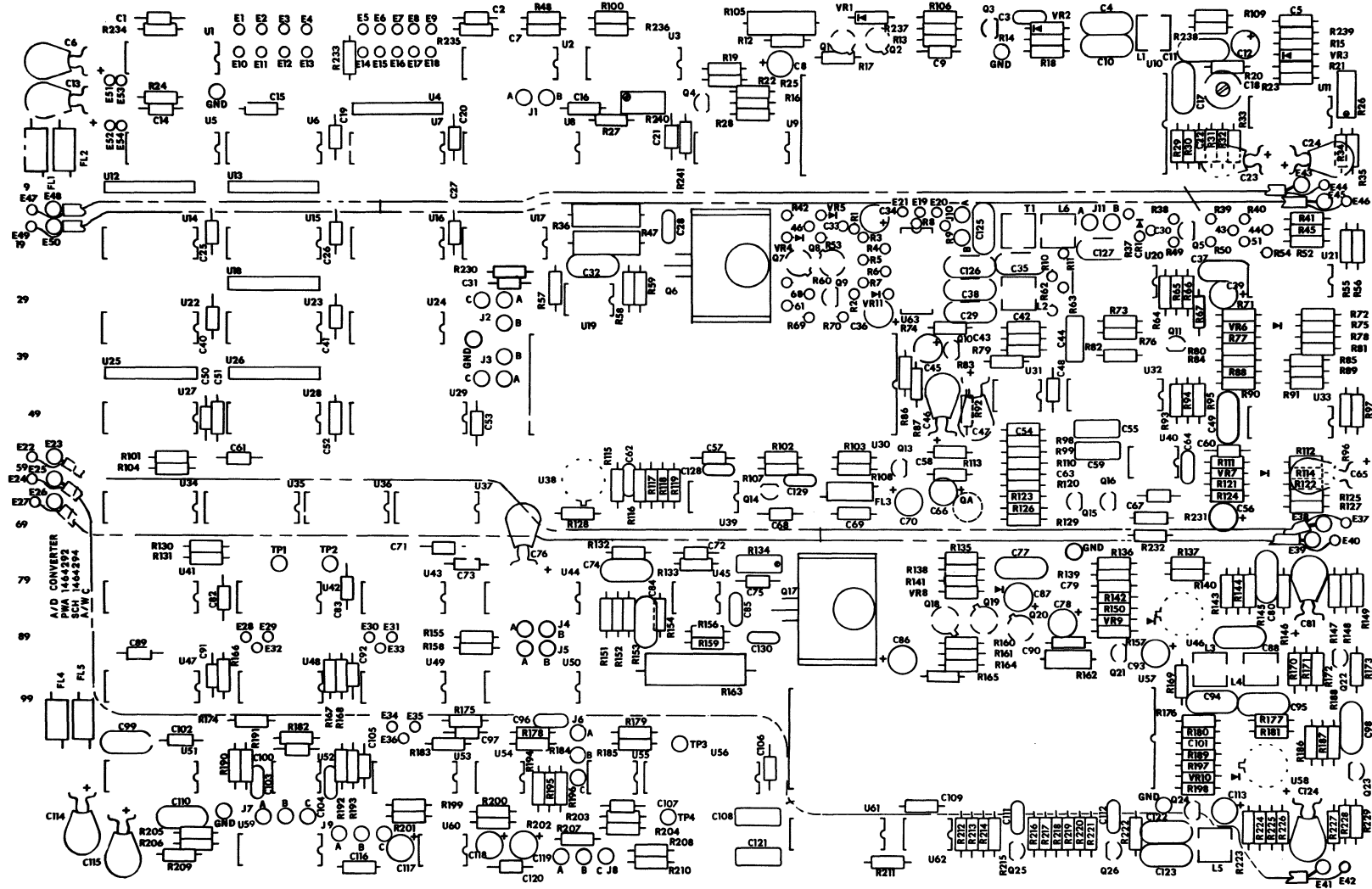
LM-1464292

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1464292	REV M				
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER							
				-01	-02	-03	-04	-05	-06	-07	
122	066-856	RESISTOR, C.F., 15K OHMS, 1/4W, ±5%	R212	1	1	1	1	1	1	1	
123	066-865	12K	R206	1	1	1	1	1	1	1	
124	066-873	20K	R64	1	1	1	1	1	1	1	
125	066-938	RESISTOR, C.F., 47 OHMS, 1/4W, ±5%	R14,25,106,107,137, 150,157,177,197,198, 211,237	12	12	12	12	12	12	12	
126	066-814	RESISTOR, C.F., 270 OHMS, 1/4W, ±5%	R244,246				2	2	2	2	
127	076-004	RESISTOR, C.F., 180 OHMS, 1/4W, ±5%	R245,247				2	2	2	2	
128											
129	066-498	RESISTOR, C.F., 430 OHMS, 1/4W, ±5%, STAND-UP	R42	1	1	1	1	1	1	1	
130	066-526	10	P68	1	1	1	1	1	1	1	
131	066-528	100	R8,39,49,54, 60	5	5	5	5	5	5	5	
132	066-534	330	R46	1	1	1	1	1	1	1	
133	066-541	1K	R63	1	1	1	1	1	1	1	
134	066-542	1.2K	R50	1	1	1	1	1	1	1	
135	066-544	2.2K	R2,37,43,69	4	4	4	4	4	4	4	
136	066-547	3K	R4	1	1	1	1	1	1	1	
137	066-549	4.7K	R3	1	1	1	1	1	1	1	
138	066-553	6.8K	R51	1	1	1	1	1	1	1	
139	066-561	22	R1	1	1	1	1	1	1	1	
140	066-562	47	R7,53,61,70	4	4	4	4	4	4	4	
141	066-571	10K	R38,44	2	2	2	2	2	2	2	
142	066-572	RESISTOR, C.F., 1.5K OHMS, 1/4W, ±5%, STAND-UP	R40	1	1	1	1	1	1	1	
143											
144											
145											
146	041-793	RESISTOR, COMP., 10 MEG OHMS, 1/4W, ±5%	R191,192	2	2	2	2	2	2	2	
147	041-801	RESISTOR, COMP., 22 MEG OHMS, 1/4W, ±5%	R202	1	1	1	1	1	1	1	
148											
149	041-404	RESISTOR, COMP., 510 OHMS, 1/2W, ±5%	R162	1	1	1	1	1	1	1	
150											
151	041-501	RESISTOR, COMP., 330 OHMS, 1W, ±5%	R105	1	1	1	1	1	1	1	
152	041-815	RESISTOR, COMP., 15 OHMS, 1W, ±5%	R36,47	2	2	2	2	2	2	2	
153											
154	059-880	RESISTOR, WIREWOUND, 4.64 OHMS, 5W, ±1%	R163	1	1	1	1	1	1	1	
155											
156	062-624	RESISTOR, M.F., 1K OHMS, 1/4W, ±1%	R117,179,204	3	3	3	3	3	3	3	
157	062-639	3.01K	R133	1	1	1	1	1	1	1	
158	062-643	2K	R27,143,144,186,187, 233	6	6	6	6	6	6	6	
159	062-694	15K	R118,119,205	3	3	3	3	-	-	-	
160	062-836	75	R56,97	2	2	2	2	2	2	2	
161	062-856	124	R35	1	1	1	1	1	1	1	
162	062-873	196	R5	1	1	-	-	-	-	-	
163	062-874	200	R34	1	1	1	1	1	1	1	
164	062-877	221	R21,170,223,238	4	4	4	4	4	4	4	
165	062-880	RESISTOR, M.F., 249 OHMS, 1/4W, ±1%	R132	1	1	1	1	1	1	1	




LM-1464292

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1464292	RFV M			
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER						
				-01	-02	-03	-04	-05	-06	-07
166	062-882	RESISTOR, M.F., 274 OHMS, 1/4W, ±1%	R10	1	1	1	1	1	1	1
167	062-887	332	R23	1	1	1	1	1	1	1
168	062-900	464	R9	1	1	1	1	1	1	1
169	062-902	499	R45,55,77,89,96,121	6	6	6	6	6	6	6
170	062-904	511	R62	1	1	1	1	1	1	1
171	062-941	2.21K	R57,153	2	2	2	2	2	2	2
172	062-968	4.99K	R235	1	1	1	1	1	1	1
173	062-969	5.11K	R185,203	2	2	2	2	2	2	2
174	062-972	5.62K	R115	1	1	1	1	1	1	1
175	062-983	10K	R194-196,200	4	4	4	4	4	4	4
176	066-020	121K	R166,167	2	2	2	2	2	2	2
177	066-703	487	R11	1	1	1	1	1	1	1
178	066-793	787	R6	1	1	1	1	1	1	1
179	076-071	RESISTOR, M.F., 5.36K OHMS, 1/4W, ±1%	R58,159	2	2	2	2	2	2	2
180	062-868	RESISTOR, H.F., 169 OHMS, 1/4W, ±1%	R5		-	1	1	1	1	1
181										
182										
183	058-452	RESISTOR, VAR., 200 OHMS, .5W, ±10%	R26	1	1	1	1	1	1	1
184	058-564	500	R134	1	1	1	1	1	1	1
185	058-575	RESISTOR, VAR., 100K OHMS, .5W, ±10%	R240	1	1	1	1	1	1	1
186										
187	602-044	SHORTING PLUG, RED	J1-9,11	1	10	10	10	10	-	-
188	602-044	SHORTING PLUG, RED	J1-4,6-9,11						10	10
189	173-024	TERMINAL, STUD, TURRET	GND	6	6	6	6	6	6	6
190	187-354	TERMINAL, TEST POINT	TP1-4	4	4	4	4	4	4	4
191										
192	014-780	TRANSISTOR, NPN, MPS6514-5	Q4,15,22,23,25,26	6	6	6	6	6	6	6
193	014-781	PNP, MPS6518-5	Q3,5,9,10,11,13,14,16,21,24	0	10	10	10	10	10	10
194	580-873	PNP, TIP125	Q6,17	2	2	2	2	2	2	2
195	580-918	TRANSISTOR, 2N5836	Q1,2,7,8,18-20	7	7	7	7	7	7	7
196										
197	143-981	CONN, SIGNAL CKT, P.C. TIP	REF: J1-A,B, J2-A,B,C, J3-A,B,C, J4-A,B, J5-A,B, J6-A,B,C, J7-A,B,C, J8-A,B,C, J9-A,B,C, J10-A,B, J11-A,B	28	28	28	28	28	28	28
198										
199	580-332	TRANSISTOR, MTG HDW, HEATSINK	REF: Q6,17	2	2	2	2	2	2	2
200	582-168	TRANSISTOR, MTG HDW, BUSHING, NYLON, #4	REF: Q6,17	2	2	2	2	2	2	2
201	582-330	I.C. MTG HDW, SOCKET, 14 PINS	REF: U42,43,49		-	3	3	3	3	-
202	582-195	SOCKET, I.C., 64 PIN, DIP	REF: U10,30,57	3	3	3	3	3	3	3
203	587-460	I.C. MTG HDW, SOCKET, DUAL IN-LINE, 14 PINS	REF: U48		-	1	1	1	1	-
204	283-105	SPACER, UNTHD, PLAIN, .140 ID X .125 LG		1	1	1	1	1	1	1
205	302-395	STRAP, CABLE, MOUSE TAIL		6	6	6	6	6	6	7
206										
207	473-324	SCREW, PAN HD, X-REC, 4-40 X .250 LG		5	5	5	5	5	5	5
208	473-326	SCREW, PAN HD, X-REC, 4-40 X .375 LG		3	3	3	3	3	3	3
209										

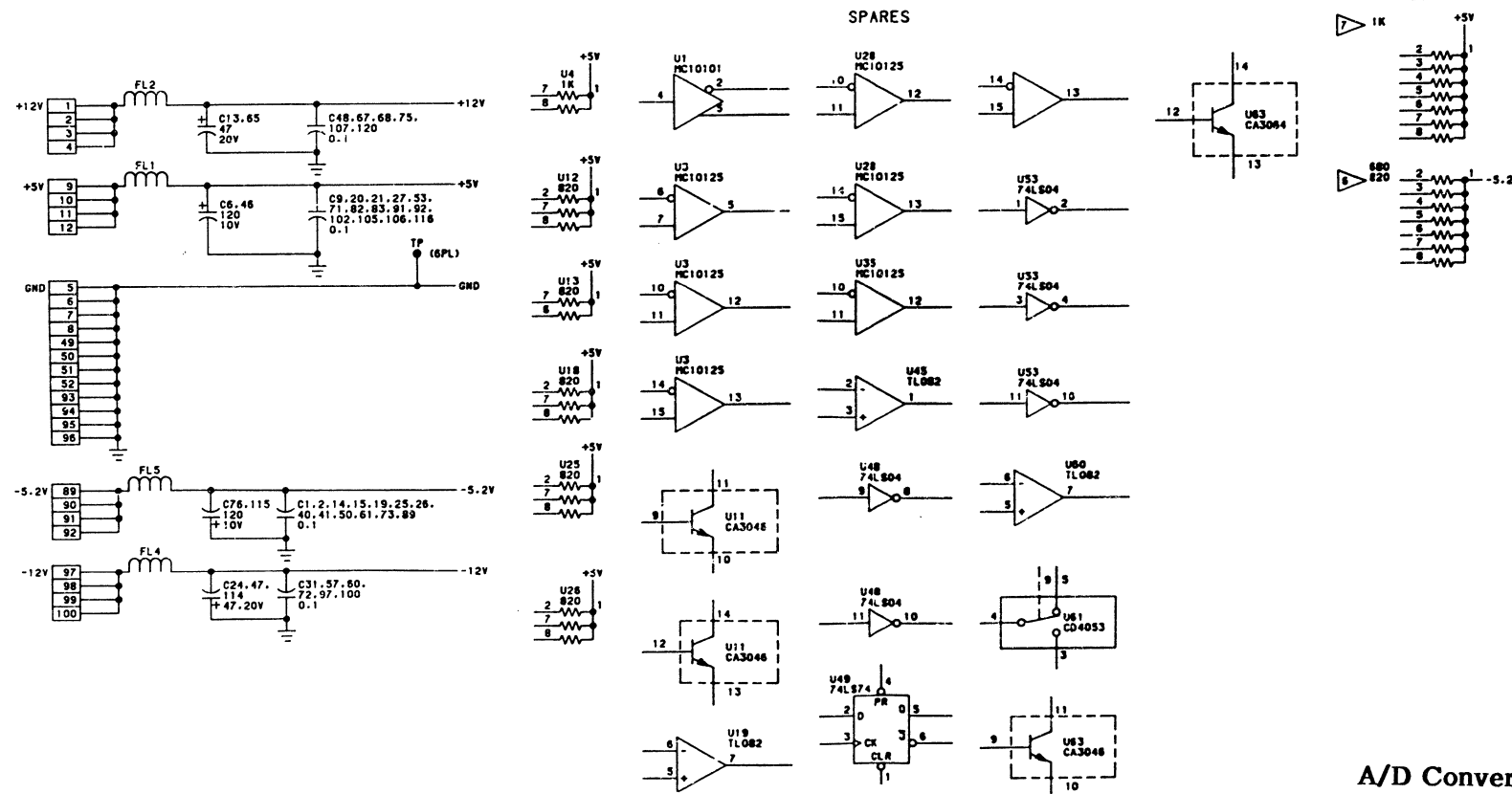
LM-1464292



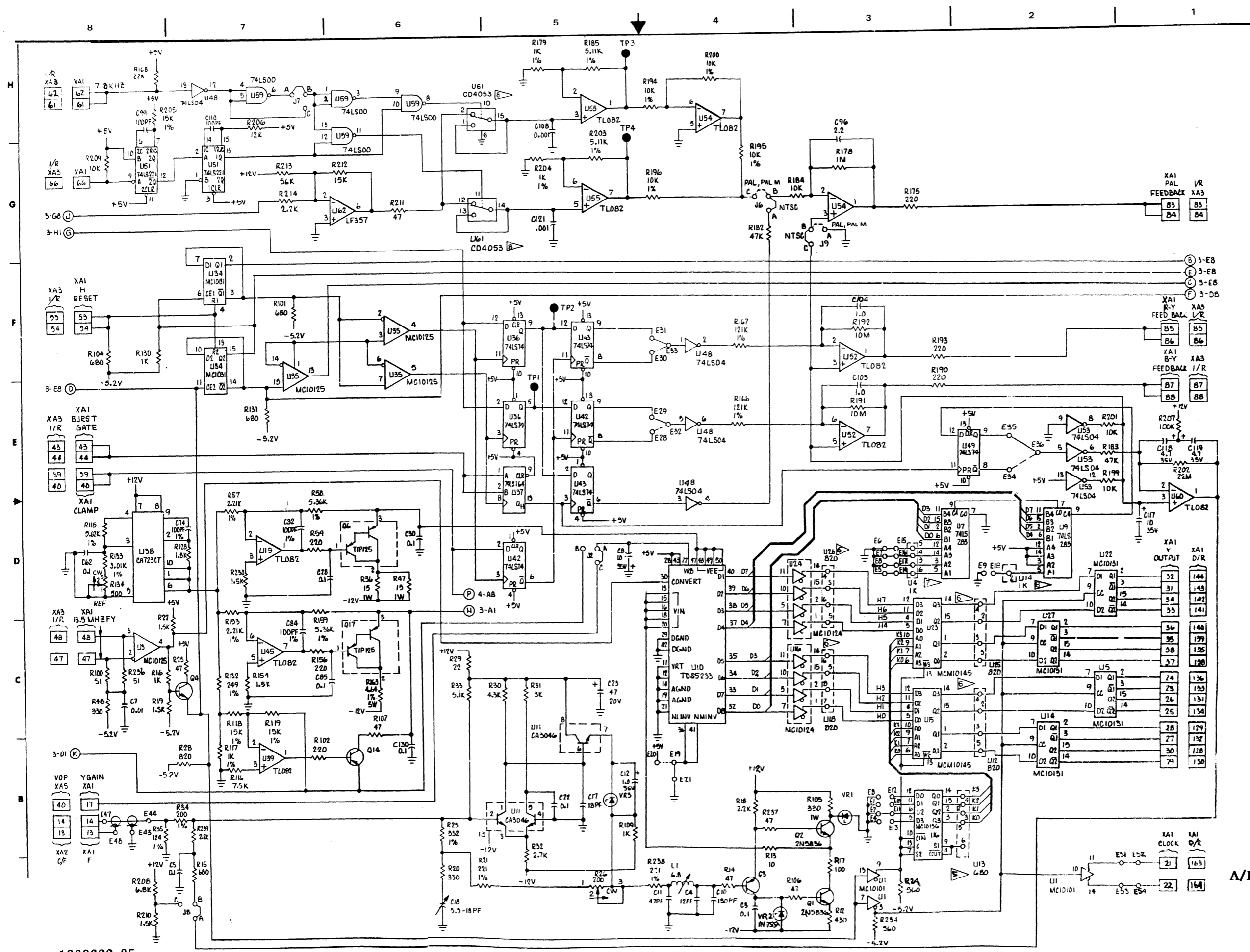
Assembly No. 1464292-01 - A/D Converter Digi-Matte PWA, A1 (OPTION)

- NOTE: UNLESS OTHERWISE SPECIFIED:
1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 3. PNP TRANSISTOR MPS6510.
 4. NPN TRANSISTOR MPS6514.
 5. INDUCTANCE VALUES ARE IN MICROHENRIES.
-  -O- DESIGNATES PULL DOWN RESISTOR CONNECTION. SEE DETAIL AND IC LIST.
 -O- DESIGNATES PULL UP RESISTOR CONNECTION. SEE DETAIL AND IC LIST.
 STATIC SENSITIVE DEVICE. SPECIAL HANDLING REQUIRED PER AMPEX STANDARD MEI-1.
9. ZENER DIODES ARE 1M746A, 3.3V.

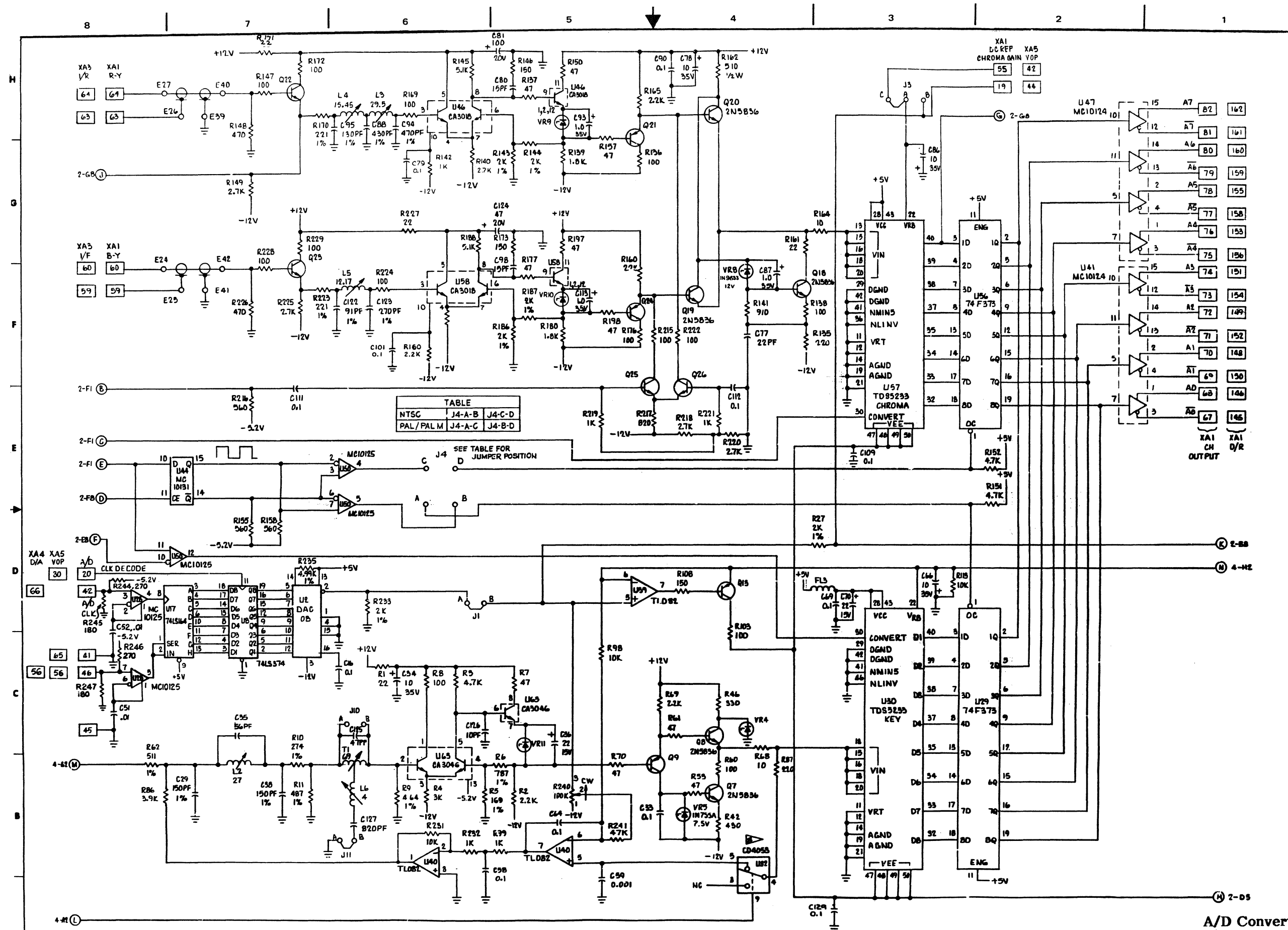
REFERENCE DESIGNATIONS		I.C. LIST								
LAST USED	NOT USED	REFERENCE DESIGNATION	AMPEX P/N	VENDOR P/N	GND PIN	POWER PINS				
						+5	-5.2	+12	-12	
C132										
CR1										
E54										
FL5		U3.28.35.50	000-152	MC10125	16	2	8			
J11		U1	001-073	MC10101	1.16		8			
L6		U29.56	002-993	74F373	10	20				
Q26	Q12	U46.58	586-204	CA3018						
R248		U38	586-321	CA723CT						
T1		U6	587-550	MC10136	1.16		8			
TP4		U62	589-465	LF357				7	4	
U64		U10.57	589-625	TDSS233						
VR11		U59	589-813	74LS00	7	14				
		U48.53	589-814	74LS04	7	14				
		U36.42.43.49	589-820	74LS74	7	14				
		U17.37	589-827	74LS164	7	14				
		U51.64	589-934	74LS221	8	16				
		U15.23	590-049	MCM10145	16		8			
		U5.14.22.27.34.44	590-326	MC10131	1.16		8			
		U32	590-457	CD4053	8	16			7	
		U16.24.41.47	590-564	MC10124	16	8	8			
		U8	590-586	74LS374	10	20				
		U19.31.39.40.45.52.54.55.60	590-602	TL082				8	4	
		U7.9	590-606	74LS283	8	16				
		U11.20.21.33.63	590-721	CA3046						
		U2	590-734	DAC08A0	1.4	13			3	
		U81	590-457	CD4053	8	16	7			
		RESISTOR NETWORK								
		U4	039-223			1				
		U13	039-374				1			
		U12.18.25.26	039-375				1			



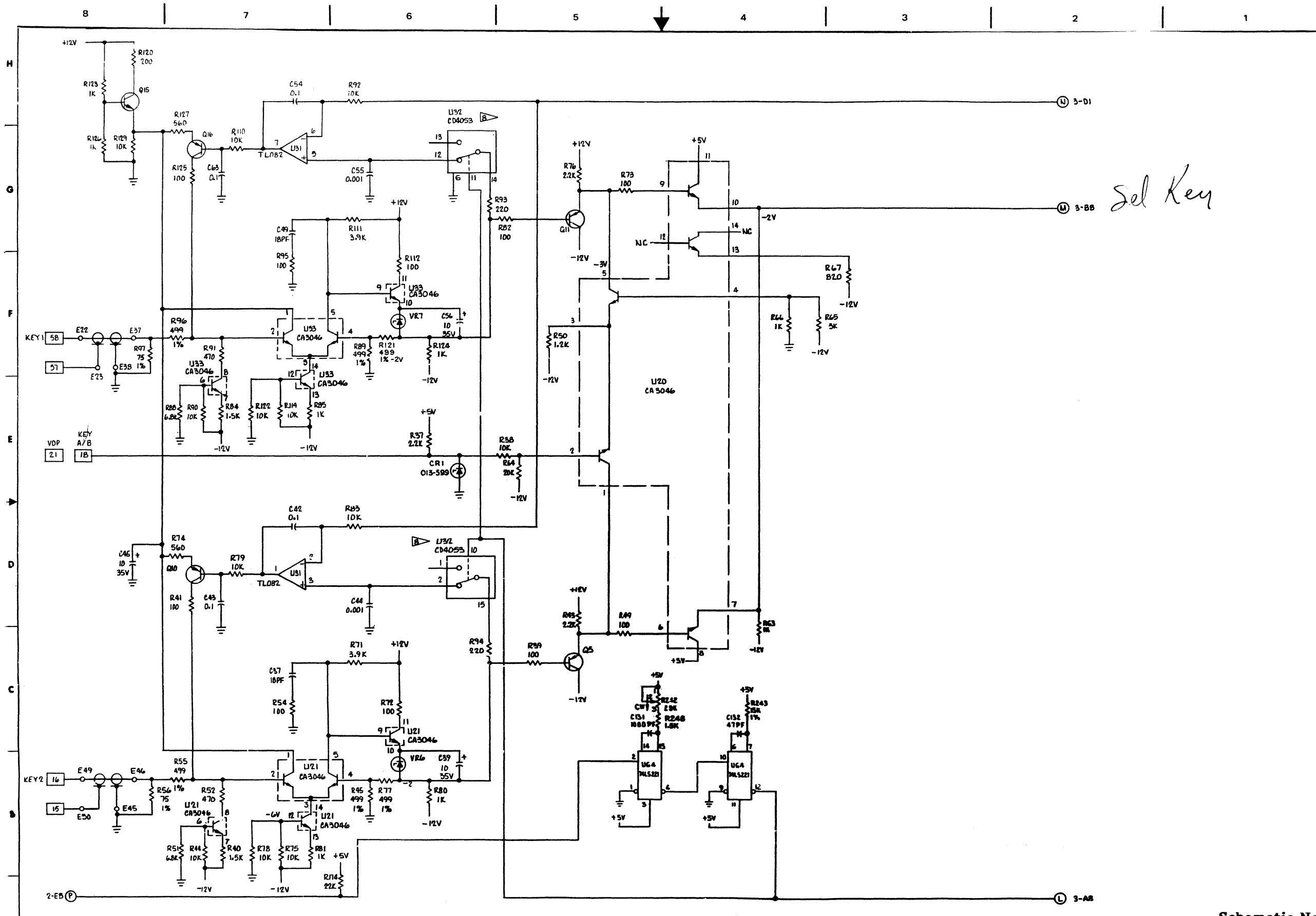
Schematic No. 1464294J.
 A/D Converter Digi-Matte, A1 (OPTION)
 (Sheet 1 of 4)



Schematic No. 1464294J.
A/D Converter Digi-Matte, A1 (OPTION)
(Sheet 2 of 4)



Schematic No. 1464294J.
A/D Converter Digi-Matte, A1 (OPTION)
(Sheet 3 of 4)



Key A-B Switcher

Sel Key

Schematic No. 1464294J.
A/D Converter Digi-Matte, A1 (OPTION)
(Sheet 4 of 4)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																	
				-03	-04	-05	-06	-07	-08												
1																					
2																					
3	1420070	SCHEMATIC		F	G	H	J	J	L												
4																					
5	013-166	DIODE, ZENER, 3.3V, IN746A	VR1,3,4,6	4	4	4	4	4	4												
6	013-312	DIODE, ZENER, 7.5V, IN755A	VR2	1	1	1	1	1	1												
7	013-313	DIODE, ZENER, 12V, IN963B	VR5	1	1	1	1	1	1												
8	034-540	CAPACITOR, MICA, 51pF, ±1%	C10	-	-	-	-	-	-												
9	034-759	CAPACITOR, MICA., 15pF, 500V, ±.5pF	C42,95	2	2	2	2	2	2												
10	056-105	18pF ±.5pF	C102	1	1	1	1	1	1												
11	056-164	22pF ±.5pF	C23	-	-	-	-	-	-												
12	056-920	430pF ±1%	C76	1	1	1	1	1	1												
13	034-222	100pF	C36,37,53	3	3	3	3	3	3												
14	034-239	130pF	C3,92	1	1	2	2	2	2												
15	034-367	91pF	C31	1	1	1	1	1	1												
16	034-919	270pF	C32	1	1	1	1	1	1												
17	034-224	160pF	C9	1	-	-	-	-	-												
18	034-540	51pF	C10	1	-	-	-	-	-												
19	056-291	470pF ±1%	C77	1	1	1	1	1	1												
20	056-164	CAPACITOR, MICA., 22pF, 500V, ±.5pF	C104	1	1	1	1	1	1												
21	064-062	CAPACITOR, MONO., CER., .1uF	C3,4,5,6,8,11,12,13,14,17-22,24-29,30,33,34,35,38-41,45,48-52,55,56,58,59,60,62,63,66-72,74,75,81,84,86,87,88,90,94,96,97	60	60	60	60	60	60												
22	064-298	MONO., CER., .01uF, 100V, ±20%	C65	1	1	1	1	1	1												
23	064-314	MONO., CER., 1uF, 50V, ±20%	C85,99	2	2	2	2	2	2												
24	037-591	TANT., 1.0uF, 35V, ±20%	C15,57,73,78	4	4	4	4	4	4												
25	037-908	TANT., 4.7uF, 35V, ±20%	C46,61,82,83	4	4	4	4	4	4												
26	037-933	TANT., 10uF, 35V, ±20%	C7,47,64,98	4	4	4	4	4	4												
27	037-892	TANT., 47uF, 20V, ±20%	C1,16,43,44,54,79	6	6	6	6	6	6												
28	037-901	TANT., 100uF, 20V, ±20%	C93	1	1	1	1	1	1												
29	037-965	CAPACITOR, TANT., 120uF, 10V, ±20%	C2,80,89,91	4	4	4	4	4	4												
30	062-863	RESISTOR, M.F., 147 OHMS, 1/4W, ±1%	R11	1	1	1	1	1	1												
31	062-856	RESISTOR, M.F., 124 OHMS, 1/4W, ±1%	R129	1	1	1	1	1	1												
32	062-877	RESISTOR, M.F., 221 OHMS, 1/4W, ±1%	R11,20,41,118	3	3	4	4	4	4												
33	062-880	RESISTOR, M.F., 249 OHMS, 1/4W, ±1%	R32	1	1	1	1	1	1												
34	062-887	RESISTOR, M.F., 332 OHMS, 1/4W, ±1%	R21	1	1	1	1	1	1												
35	034-224	CAPACITOR, MICA, 160pF, 500V, ±1%	C9	-	-	-	-	-	-												

LM-1420068

AMPEX		Amper Corporation REDWOOD CITY CALIFORNIA		CC.DE IDENT NO 92739	LIST OF MATERIALS	LM-1420068 SHEET 2 of 5	REV S						
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-03	-04	-05	-06	-07	-08				
36	062-624	RESISTOR, M.F., 1K OHMS, 1/4W, ±1%	R31	1	1	1	1	1	1	1			
37	062-643	2K	R44,70,105,109	4	4	4	4	4	4	4			
38	062-941	2.21K	R35,54	2	2	2	2	2	2	2			
39	062-632	3.01K	R34	1	1	1	1	1	1	1			
40	076-071	5.36K	R39,57	2	2	2	2	2	2	2			
41	062-972	5.62K	R15	1	1	1	1	1	1	1			
42	062-694	15K	R49,51	2	2	2	2	2	2	2			
43	062-874	RESISTOR, M.F., 200 OHMS, 1/4W, ±1%	R23	1	1	1	1	1	1	1			
44	066-810	RESISTOR, C.F., 10 OHMS, 1/4W, 5%	R4,94	2	2	2	2	2	2	2			
45	066-660	22	R12,42,87,106	4	4	4	4	4	4	4			
46	066-938	47	R6,8,10,53,65, 67,71,84,110, 125,126	11	11	11	11	11	11	11			
47	066-811	51	R78,79	2	2	2	2	2	2	2			
48													
49	066-812	100	R5,46,60,61,68, 88,95,96,104, 112,121,122	12	12	12	12	12	12	12			
50	066-813	150	R43,128	2	2	2	2	2	2	2			
51	066-663	220	R38,50,56,90, 100,114,115	7	7	7	7	7	7	7			
52	066-838	330	R18,80	2	2	2	2	2	2	2			
53	066-817	430	R17	1	1	1	1	1	1	1			
54	066-818	470	R59,120	2	2	2	2	2	2	2			
55	066-839	560	R1,2,63	3	3	3	3	3	3	3			
56	066-840	680	R64,85,103	3	3	3	3	3	3	3			
57	066-821	820	R83,91	2	2	2	2	2	2	2			
58	066-822	910	R89	1	1	1	1	1	1	1			
59	066-665	1K	R19,66,81,86, 92,97,127	7	7	7	7	7	7	7			
60	066-824	1.5K	R36,55,77,32	4	4	4	4	4	4	4			
61	066-675	1.8K	R33,73,108	3	3	3	3	3	3	3			
62	066-689	2.2K	R7,22,72,111	4	4	4	4	4	4	4			
63	066-666	2.7K	R 27,45,62,93, 98,119,123	7	7	7	7	7	7	7			
64	066-667	3.0K	R26	1	1	1	1	1	1	1			
65													
66	066-828	4.3K	R25	1	1	1	1	1	1	1			
67	066-842	5.1K	R69,124,130	3	3	3	3	3	3	3			
68	066-711	7.5K	R52	1	1	1	1	1	1	1			
69	066-830	10K	R74,75	2	2	2	2	2	2	2			
70													
71	066-717	47K	R47,99	2	2	2	2	2	2	2			
72	066-849	RESISTOR, C.F., 100K OHMS, 1/4W, 5%	R76,113	2	2	2	2	2	2	2			
73													
74													
75	041-793	RESISTOR, COMP., 10M OHMS, 1/4W, 5%	R116,117	2	2	2	2	2	2	2			
76	041-801	RESISTOR, COMP., 22M OHMS, 1/4W, 5%	R48	1	1	1	1	1	1	1			
77													

LM-1420068

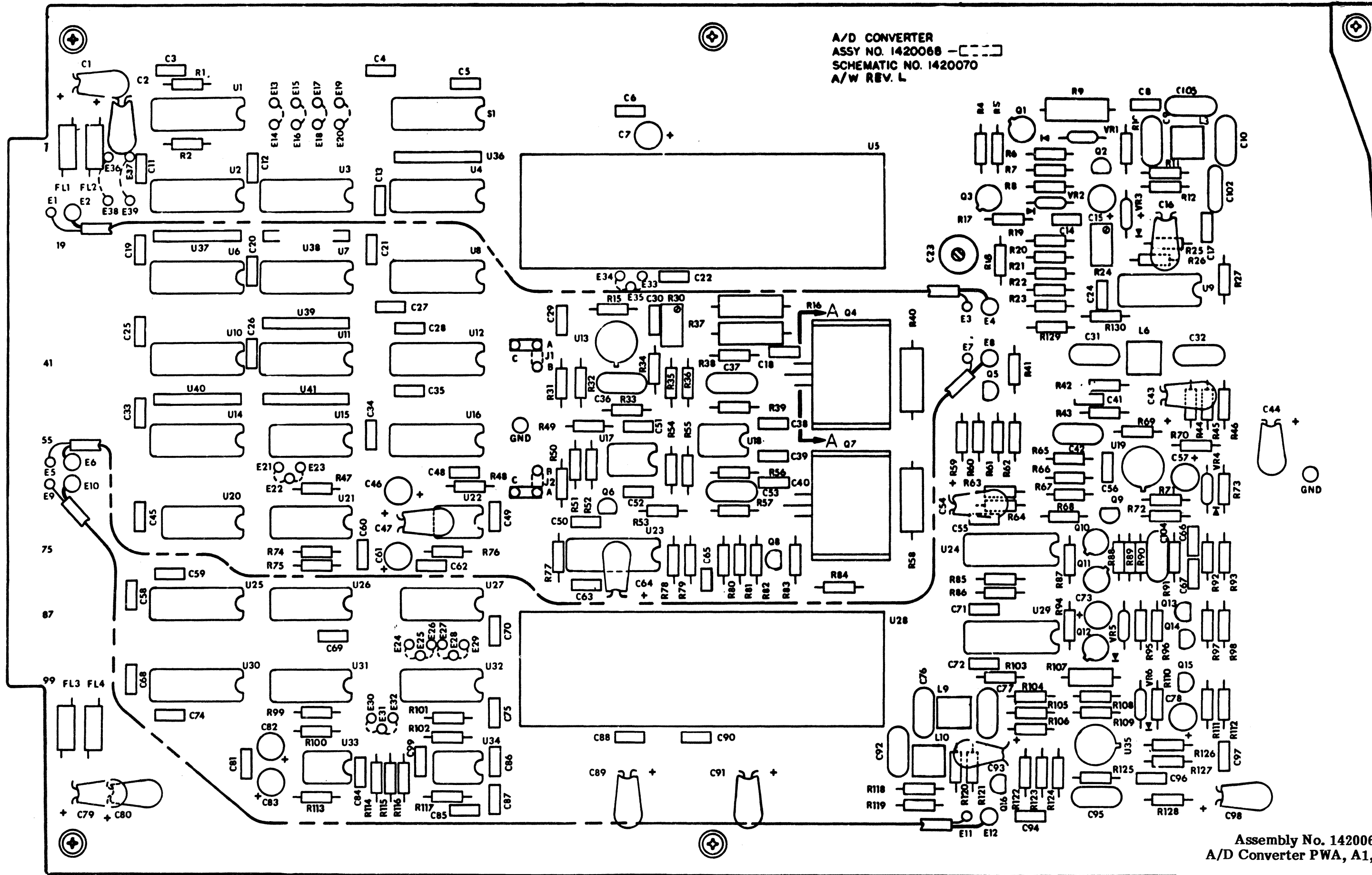
AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1420068 SHEET 3 of 5	REV S												
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER															
				-03	-04	-05	-06	-07	-08										
78																			
79	041-404	RESISTOR, COMP., 510 OHMS, 1/2W, 5%	R107					1	1	1	1								
80																			
81	066-020	RESISTOR, M.F., 121K OHMS, 1/4W, ±1%	R101,102		2	2	2	2	2	2	2								
82	041-815	RESISTOR, COMP., 15 OHMS, 1W, 5%	R16,37,40,58		4	4	4	4	4	4	4								
83	041-501	RESISTOR, COMP., 330 OHMS, 1W, 5%	R9		1	1	1	1	1	1	1								
84																			
85	058-452	RESISTOR, VARIABLE, 200 OHMS, .5W, 10%, 20-T	R24		1	1	1	1	1	1	1								
86	058-564	RESISTOR, VAR., 500 OHMS, .5W, ±10%, TOP ADJ	R30		1	1	1	1	1	1	1								
87	039-374	NETWORK, RESISTOR, 8 PIN SIP, 680 OHMS	U38		1	1	1	1	1	1	1								
88	039-375	NETWORK, RESISTOR, 8 PIN SIP, 820 OHMS	U37,39,40,41		4	4	4	4	4	4	4								
89	039-223	NETWORK, RESISTOR, 8 PIN SIP, 1K OHMS	U36		1	1	1	1	1	1	1								
90																			
91	051-770	FERRITE - CHOKE	FL1-4		4	4	4	4	4	4	4								
92	1374388-AP	INDUCTOR VARIABLE, (15.45uH), 15uH	L10		1	1	1	1	1	1	1								
93	1374388-AT	INDUCTOR VARIABLE, (29.5uH), 27uH	L9		1	1	1	1	1	1	1								
94	1374388-AK	INDUCTOR VARIABLE, 6.8uH	L3		1	-	-	-	-	-	-								
95	1374388-AK	INDUCTOR, VARIABLE, 6.8uH	L3		-	1	1	1	1	1	1								
96																			
97	1374388-AN	INDUCTOR VARIABLE, (12.17uH), 12uH	L6		1	1	1	1	1	1	1								
98	056-290	CAPACITOR, MICA, 430pF, 500V, ±1%	C76																
99	119-492	SWITCH ASSY, 8 X SPST	S1		1	1	1	1	1	1	1								
100																			
101	582-276	SOCKETS, I.C., 8 PIN DIP	REF:U17,18,22,33,34		5	5	5	5	5	5	-								
102	582-277	14 PIN DIP	U9,15,20,21,26,27,31,32		8	8	8	8	8	8	-								
103	587-451	16 PIN DIP	U1,2,3,4,6,7,8,10,11,12,14,16,23,24,25,29,30		17	17	17	17	17	17	-								
104	582-429	SOCKETS, I.C., 64 PIN DIP	REF:U5,28		2	2	2	2	2	2	2								
105	580-918	TRANSISTOR, 2N5836	Q1,3,10,11,12		5	5	5	5	5	5	5								
106	014-780	TRANSISTOR, NPN, MPS6514-5	Q5,8,13,14,16		5	5	5	5	5	5	5								
107	014-781	TRANSISTOR, PNP, MPS6518-5	Q2,6,9,15		4	4	4	4	4	4	4								
108	580-873	TRANSISTOR, PNP, TIP125	Q4,7		2	2	2	2	2	2	2								
109	590-612	INTEGRATED CIRCUIT, OP AMP, MC1458	U18		1	1	1	1	1	1	1								
110	590-602	OP AMP, TL082	U17,22,33,34		4	4	4	4	4	4	4								
111	586-321	REE, CA723CT	U13		1	1	1	1	1	1	1								
112	586-204	TRANSISTOR ARRAY, CA3018	U19,35		2	2	2	2	2	2	2								
113	590-721	TRANSISTOR ARRAY, CA3046	U9		1	1	1	1	1	1	1								
114	001-073	MC10101	U1		1	1	1	1	1	1	1								
115	590-564	MC10124	U8,12,25,30		4	4	4	4	4	4	4								
116	587-132	MC10125	U23,29		2	2	2	2	2	2	2								
117	587-550	MC10136	U3		1	1	1	1	1	1	1								
118	590-049	HCM101452	U7,11		2	2	2	2	2	2	2								
119	589-814	74LS04	U21,32		2	2	2	2	2	2	2								
120	589-820	74LS74	U15,26,27,31		4	4	4	4	4	4	4								
121	590-606	INTEGRATED CIRCUIT, 74LS283	U4,16		2	2	2	2	2	2	2								

LM-1420068

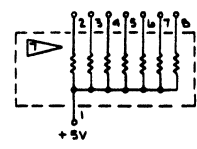
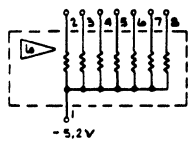
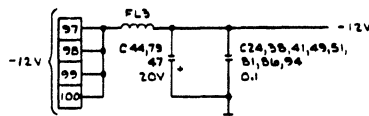
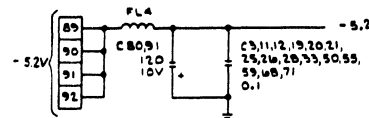
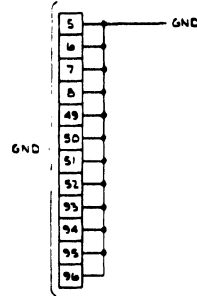
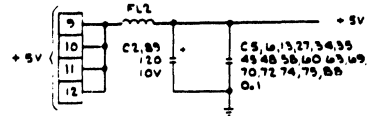
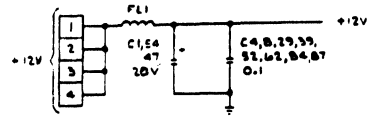
ITEM NO.	PART NUMBER	DESCRIPTION	REF. DESIGN.	QTY REQD PER DASH NUMBER									
				-03	-04	-10	-06	-07	-08				
122	589-685	INTEGRATED CIRCUIT, TDS5233	U5,28	2	2	2	2	2	2	2			
123	590-326	MC10131	U2,6,10,14,24	5	5	5	5	5	5	5			
124	589-827	INTEGRATED CIRCUIT, 74LS164	U20			1	1	1	1	1			
125													
126	173-024	TERMINAL STUD, TURRET	TP GND	2	2	-	-	-	-	-			
127	580-332	TRANSISTOR, MTG HDW., HEAT SINK	REF:Q4,7	2	2	2	2	2	2	2			
128	1400004-01	HANDLE, EXTRACTOR				1	1	1	1	1			
129	283-105	SPACER, UNTHD, PLAIN, .140 ID X .125 LG				1	1	1	1	1			
130	506-011	WASHER, BOWED, .257 MIN ID				1	1	1	1	1			
131	1420404-01	SHIELD, ANALOG PWB				1	1	1	1	1			
132	1462928-AK	LABEL, HANDLE EXTRACTOR				1	1	1	1	1			
133													
134	473-324	SCREW, PAN HD., X-REC, 4-40 X .250 LG		5	5	5	5	5	5	5			
135	473-326	SCREW, PAN HD., X-REC, 4-40 X .375 LG		3	3	3	3	3	3	3			
136	501-008	WASHER, PLAIN, .125 ID, #4				1	1	1	1	1			
137	501-169	WASHER, PLAIN, SM PATTERN, .125 ID		5	5	5	5	5	5	5			
138	143-091	CONN, SIGNAL CIRCUIT, JACK PC TIP	REF:J1,2	-	-	-	-	-	-	-			
139	602-044	SHORTING PLUG, RED, 2 PINS	J1,2	2	2	2	2	2	2	2			
140	143-981	CONN, SIGNAL CIRCUIT, JACK PC TIP	REF:J1-A,B,C, J2-A,B,C	6	6	6	6	6	6	6			
141	616-569	CABLE, COAXIAL, 75 OHM		A/R	A/R	A/R	A/R	A/R	A/R	A/R			
142	615-004	WIRE, SOLID, UNINSULATED, 24 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R			
143	600-036	SLEEVING, TEFLON, FLEXIBLE, .035 ID		A/R	A/R	A/R	A/R	A/R	A/R	A/R			
144	492-008	NUT, PLAIN, #4	REF:Q4,7	2	2	2	2	2	2	2			
145	502-002	WASHER, LOCK, HELICAL SPRING	REF:Q4,7	2	2	2	2	-	-	-			
146	582-296	TRANSISTOR, MTG HDW., INSULATOR	REF:Q4,7	-	-	-	-	-	-	-			
147	600-017	SLEEVING, PVC, FLEXIBLE, .106 ID	REF:Q4,7	-	-	-	-	-	-	-			
148	582-168	TRANSISTOR, MTG. HDWE, BUSHING, INSULATING, NYLON, #4	REF:Q4, Q7					-	2	2			
149	302-395	STRAP, CABLE, MOUSETAIL		6	6	6	6	6	6	6			
150													
151													
152													
153	056-580	CAPACITOR, MICA, 12pF, 500V, ±.5%	C105			1	1	1	1	1			
154	056-603	CAPACITOR, MICA, 47pF, 500V, ±.5%	C10			1	1	1	1	1			
155	038-309	CAPACITOR, VARIABLE, 5-5-18pF	C23			1	1	1	1	1			
156													
157													
158	582-329	SOCKET, I.C., 8 PIN DIP	REF:U17,18,22,33,34							5			
159	582-330	SOCKET, I.C., 14 PIN DIP	REF:U9,15,20,21,26, 27,31,32							8			
160	582-331	SOCKET, I.C., 16 PIN DIP	REF:U1-4,6-8,10-12, 14,16,23-25,29, 30							17			

LM-1420068

A/D CONVERTER
 ASSY NO. 1420068 - []
 SCHEMATIC NO. 1420070
 A/W REV. L



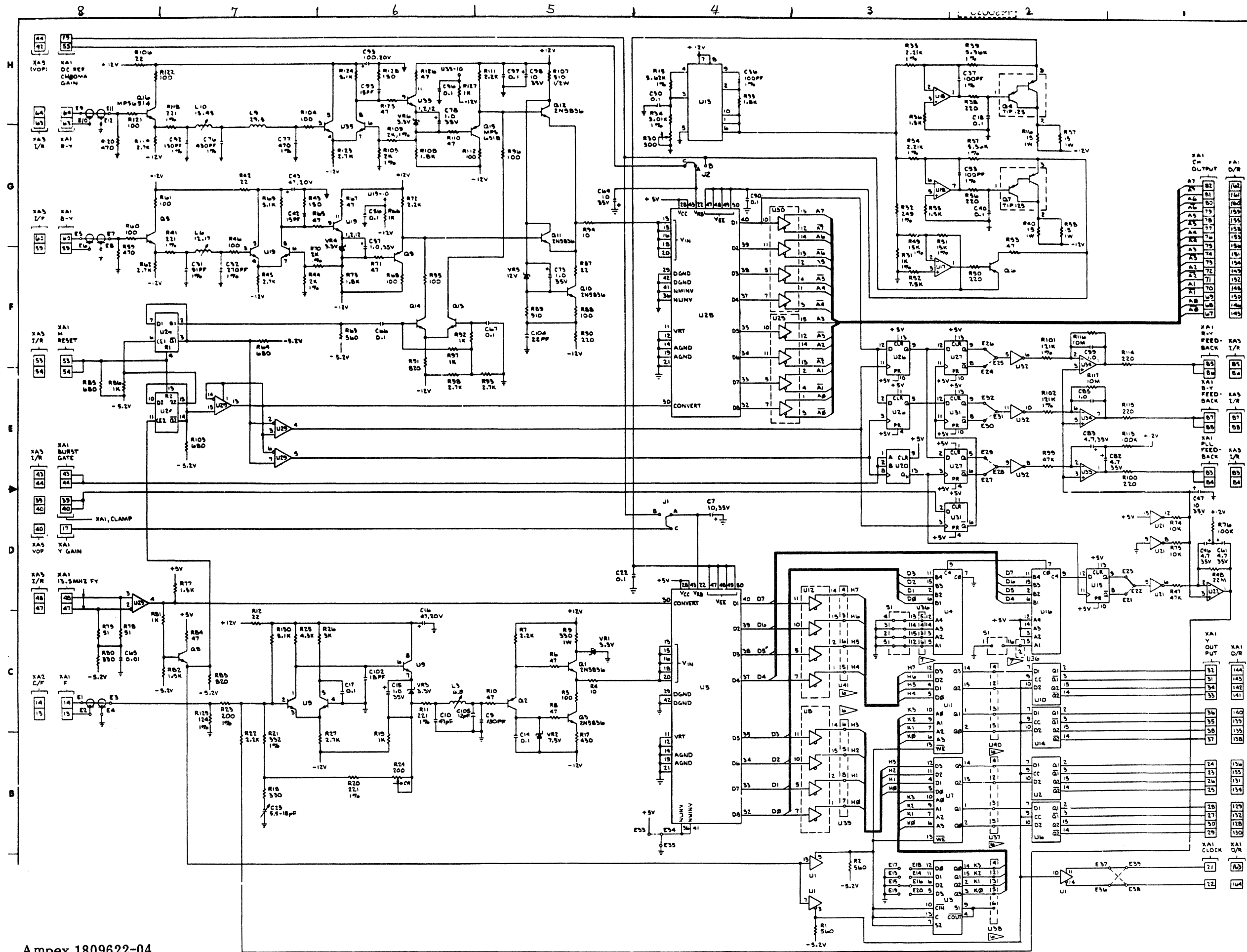
Assembly No. 1420068-085.
 A/D Converter PWA, A1, NTSC



NOTES: UNLESS OTHERWISE SPECIFIED.
 1. RESISTANCE VALUES ARE IN OHMS 1/4W, 5%
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 3. PNP TRANSISTOR MPS6518.
 4. NPN TRANSISTOR MPS6514.
 5. INDUCTANCE VALUES ARE IN MICROHENRIES.
 ▽ → DESIGNATES PULL DOWN RESISTOR CONNECTION, SEE DETAIL AND IC LIST SHEET 1.
 ▽ → DESIGNATES PULL UP RESISTOR CONNECTION, SEE DETAIL AND IC LIST SHEET 1.

IC LIST								REFERENCE DESIGNATION	
REF. DESIG.	U1	U2,6,10,14,24	U3	U4,16	U5,28	U7,11	U8,12,25,30	LAST USED	NOT USED
AMPEX P/N	001-073	590-326	587-550	590-606	589-685	590-049	590-564	C105	C100,101,103
VENDOR P/N	MC10101	MC10131	MC10136	74LS285	TP55235	MCM10145L	MC10124		
VOLTAGE (PIN)	-5.2V (8)	-5.2V (8)	-5.2V (8)	+5V (16)	+5V (16,23) -5V (47,51,59,80)	-5.2V (8)	+5V(9), -5.2V(8)		
GROUND (PIN)	(1,16)	(1,16)	(1,16)	(8)	(11,14,19,20,ANAL-03,43) DIGITAL	(16)	(16)		
REF. DESIG.	U9	U13	U15,26,27,31	U17,22,33,34	U18	U19,35	U20		
AMPEX P/N	590-721	586-321	589-820	590-602	590-612	586-204	589-827	E35	
VENDOR P/N	CA3046	CA723CT	74LS74	TLOB2	MC1458	CA3018	74LS164	FL4	
VOLTAGE (PIN)			+5V (14)	+12V(8), -12V(4)	+12V(8), -12V(4)		+5V(14)	J2	
GROUND (PIN)			(7)				(7)	L10	L1,2,4,5,7,8
REF. DESIG.	U21,32	U23,29	U36	U37,39,40,41	U38			Q16	
AMPEX P/N	589-814	587-132	039-223	039-375	039-374			R150	R3,13,14,28-29
VENDOR P/N	74LS04	MC10125	1KΩ,RES,51P	820Ω,RES,51P	680Ω,RES,51P			S1	
VOLTAGE (PIN)	+5V(14)	+5V(9), -5.2V(8)						U41	
GROUND (PIN)	(7)	(16)						VR6	

Schematic No. 1420070L. A/D Converter PWA, A1, NTSC (Sheet 1 of 2)



Schematic No. 1420070L.
A/D Converter PWA, A1, NTSC
(Sheet 2 of 2)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER				
				-01	-02	-03	-04	-05
1								
2								
3	1464204	SCHEMATIC	(-)	A	B	B	C	
4								
5	1374388-AK	INDUCTOR, VARIABLE, 6.8uH	L3	1	1	1	1	1
6	1374388-AN	(12.17uH) 12uH	L6	1	1	1	1	1
7	1374388-AP	(15.45uH) 15uH	L10	1	1	1	1	1
8	1374388-AT	INDUCTOR, VARIABLE, (29.5uH) 27uH	L9	1	1	1	1	1
9	1400004-01	HANDLE, EXTRACTOR		1	1	1	1	1
10	1420404-01	SHIELD, ANALOG, PWB		1	1	1	1	1
11	1462928-AK	LABEL, HANDLE, EXTRACTOR		1	1	1	1	1
12								
13	064-062	CAPACITOR, CER., MONO, .1uF, 50V, ±20%	C14,17,18,29,30,38,39,40,56,66,67	1	1	1	1	1
14	064-314	1uF,	C85,99	2	2	2	2	2
15	064-652	.01uF,	C65	1	1	1	1	1
16	064-653	CAPACITOR, CER., MONO, .1uF, 50V, ±20%	C3-6,8,11,12,13,19-22,24-28,33-35,41,45,48-52,55,58-60,62,63,68-72,74,75,86-88,90,94,97,108-112,115,116,119,96	56	56	56	56	56
17								
18	034-222	CAPACITOR, MICA, 100pF, 500V, ±.1%	C36,37,53,106,107	5	5	5	5	5
19	034-239	130pF, ±.1%	C9,92	2	2	2	2	2
20	034-367	91pF, ±.1%	C31	1	1	1	1	1
21	034-759	15pF, ±.5pF	C42,95	2	2	2	2	2
22	034-919	270pF, ±.1%	C32	1	1	1	1	1
23	056-105	18pF, ±.5pF	C102	1	1	1	1	1
24	056-164	22pF, ±.5pF	C104	1	1	1	1	1
25	056-291	470pF, ±.1%	C77	1	1	1	1	1
26	056-580	12pF, ±.5%	C105	1	1	1	1	1
27	056-603	47pF, ±.5%	C10	1	1	1	1	1
28	056-290	CAPACITOR, MICA, 430pF, 500V, ±.1%	C76	1	1	1	1	1
29								
30								
31								
32	055-166	CAPACITOR, MYLAR, .001	C113,114	2	2	2	2	2
33								
34	037-591	CAPACITOR, TANT, 1.0uF, 35V, ±20%	C15,57,73,78	4	4	4	4	4
35	037-892	CAPACITOR, TANT, 47uF, 20V, ±20%	C1,16,43,44,54,79	6	6	6	6	6
36	037-901	CAPACITOR, TANT, 100uF, 20V, ±20%	C93	1	1	1	1	1

LMI-1404202

AMPEX | Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1464202	REV M			
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER				
				-01	-02	-03	-04	-05
37	037-908	CAPACITOR, TANT, 4.7uF, 35V, ±20%	C46.61	2	2	2	2	2
38	037-933	10uF, 35V, ±20%	C7,47,64,98	4	4	4	4	4
39	037-965	CAPACITOR, TANT, 120uF, 10V, ±20%	C2,80,89,91	4	4	4	4	4
40								
41								
42	038-250	CAPACITOR, VARIABLE, 3-15 pF	C117	1	1	1	1	1
43	038-254	CAPACITOR, VARIABLE, 9-35 pF	C118	1	1	1	1	1
44	038-309	CAPACITOR, VARIABLE, 5.5-18 pF	C23	1	1	1	1	1
45								
46	013-166	DIODE, ZENER, 3.3V, IN746A	VR1,3,4,6	4	4	4	4	4
47	013-312	DIODE, ZENER, 7.5V, IN755A	VR2	1	1	1	1	1
48	013-313	DIODE, ZENER, 12V, IN963B	VR5	1	1	1	1	1
49								
50	051-770	FERRITE - CHOKE	FL1-4	4	4	4	4	4
51								
52	051-338	INDUCTOR, FIXED, 22uH	L11	1	1	1	1	1
53	540-005	INDUCTOR, FIXED, 47uH	L12	1	1	1	1	1
54								
55	586-204	INTEGRATED CIRCUIT, TRANSISTOR, ARRAY, CA3018	U19,35	2	2	2	2	2
56	586-321	REE, CA723CT	U13	1	1	1	1	1
57	587-132	MC10125	U23,29	2	2	2	2	2
58	001-073	MC10101	U1	1	1	1	1	1
59	587-550	MC10136	U3	1	1	1	1	1
60	589-465	LF357	U47	1	1	1	1	1
61	589-685	TDS5233	U5,28	2	2	2	2	2
62	589-813	74LS00	U43	1	1	1	1	1
63	589-814	74LS04	U21,32	2	2	2	2	2
64	589-820	74LS74	U15,26,27,31	4	4	4	4	4
65	589-827	74LS164	U20	1	1	1	1	1
66	589-934	74LS221	U42	1	1	1	1	1
67	590-049	MCM10145	U7,11	2	2	2	2	2
68	590-326	MC10131	U2,6,10,14,24	5	5	5	5	5
69	590-457	CD4053	U46	1	1	1	1	1
70	590-564	MC10124	U8,12,25,30	4	4	4	4	4
71	590-602	OP, AMP, TL082	U17,22,34,44,45	5	5	5	5	5
72	590-606	74LS283	U4,16	2	2	2	2	2
73	590-612	OP, AMP, MC1458	U18,	1	1	1	1	1
74	590-721	INTEGRATED CIRCUIT, TRANSISTOR, ARRAY, CA3046	U9	1	1	1	1	1
75								
76								
77								
78	039-223	NETWORK, RESISTOR, 8 PIN, SIP, 1K OHMS	U36	1	1	1	1	1
79	039-374	NETWORK, RESISTOR, 8 PIN, SIP, 680 OHMS	U38	1	1	1	1	1
80	039-375	NETWORK, RESISTOR, 8 PIN, SIP, 820 OHMS	U37,39,40,41	4	4	4	4	4
81								

LM-1464202

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1464202	REV M	
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIGN	QTY REQD PER DASH NUMBER				
				-01	-02	-03	-04	-05
82	066-660	RESISTOR, C.F., 22 OHMS, 1/4W, 5%	R12,42,87,106	4	4	4	4	4
83	066-663	220	R38,50,56,90, 114,115,134	7	7	7	7	7
84	066-665	1K	R19,66,81,86, 92,97,127	7	7	7	7	7
85	066-666	2.7K	R27,45,62,93, 98,119,123	7	7	7	7	7
86	066-667	3.0K	R26	1	1	1	1	1
87	066-673	1 MEG	R136	1	1	1	1	1
88	066-675	1.8K	R33,73,108	3	3	3	3	3
89	066-689	2.2K	R7,22,72,111, 146	5	5	5	5	5
90	066-712	22K	R147	1	1	1	1	1
91	066-717	47K	R47	1	1	1	1	1
92	066-810	10	R4,94	2	2	2	2	2
93	066-811	51	R78,79	2	2	2	2	2
94	066-812	100	R5,46,60,61,68, 38,95,96,104, 112,121,122	12	12	12	12	12
95	066-813	150	R43,128	2	2	2	2	2
96	066-817	430	R17	1	1	1	1	1
97	066-818	470	R59,120	2	2	2	2	2
98	066-821	820	R83,91	2	2	2	2	2
99	066-822	910	R89	1	1	1	1	1
100	066-824	1.5K	R36,55,77,82	4	4	4	4	4
101	066-830	10K	R74,75,131,135	4	4	4	4	4
102	066-829	6.8K	R151	1	1	1	1	1
103	066-833	56K	R145	1	1	1	1	1
104	066-838	330	R18,80	2	2	2	2	2
105	066-839	560	R1,2,63,148	4	4	4	4	4
106	066-840	680	R64,85,103,152	4	4	4	4	4
107	066-842	5.1K	R63,124,130,150	4	4	4	4	4
108	066-849	100K	R76	1	1	1	1	1
109	066-856	15K	R144	1	1	1	1	1
110	066-865	12K	R133	1	1	1	1	1
111	066-938	47	R6,8,10,53,65, 67,71,84,110, 125,126,143, 149	13	13	13	13	13
112	066-828	4.3K	R25	1	1	1	1	1
113	066-711	RESISTOR, C.F., 7.5K OHMS, 1/4W, 5%	R52	1	1	1	1	1
114								
115	041-404	RESISTOR, COMP, 510 OHMS, 1/2W, 5%	R107	1	1	1	1	1
116	041-501	330 OHMS, 1W, 5%	R9	1	1	1	1	1
117	041-793	10M OHMS, 1/4W, 5%	R116,117	2	2	2	2	2
118	041-801	22M OHMS, 1/4W, 5%	R48	1	1	1	1	1
119	041-815	RESISTOR, COMP, 15 OHMS, 1W, 5%	R16,37,40,58	4	4	4	4	4
120								
121	062-624	RESISTOR, M.F., 1K OHMS, 1/4W, ±1%	R31,139,142	3	3	3	3	3
122	062-639	3.01K	R34	1	1	1	1	1
123	062-643	2K	R44,70,105,109	4	4	4	4	4
124	062-694	RESISTOR, M.F., 15K OHMS, 1/4W, ±1%	R49,51,132	3	3	3	3	3

LM-1464202

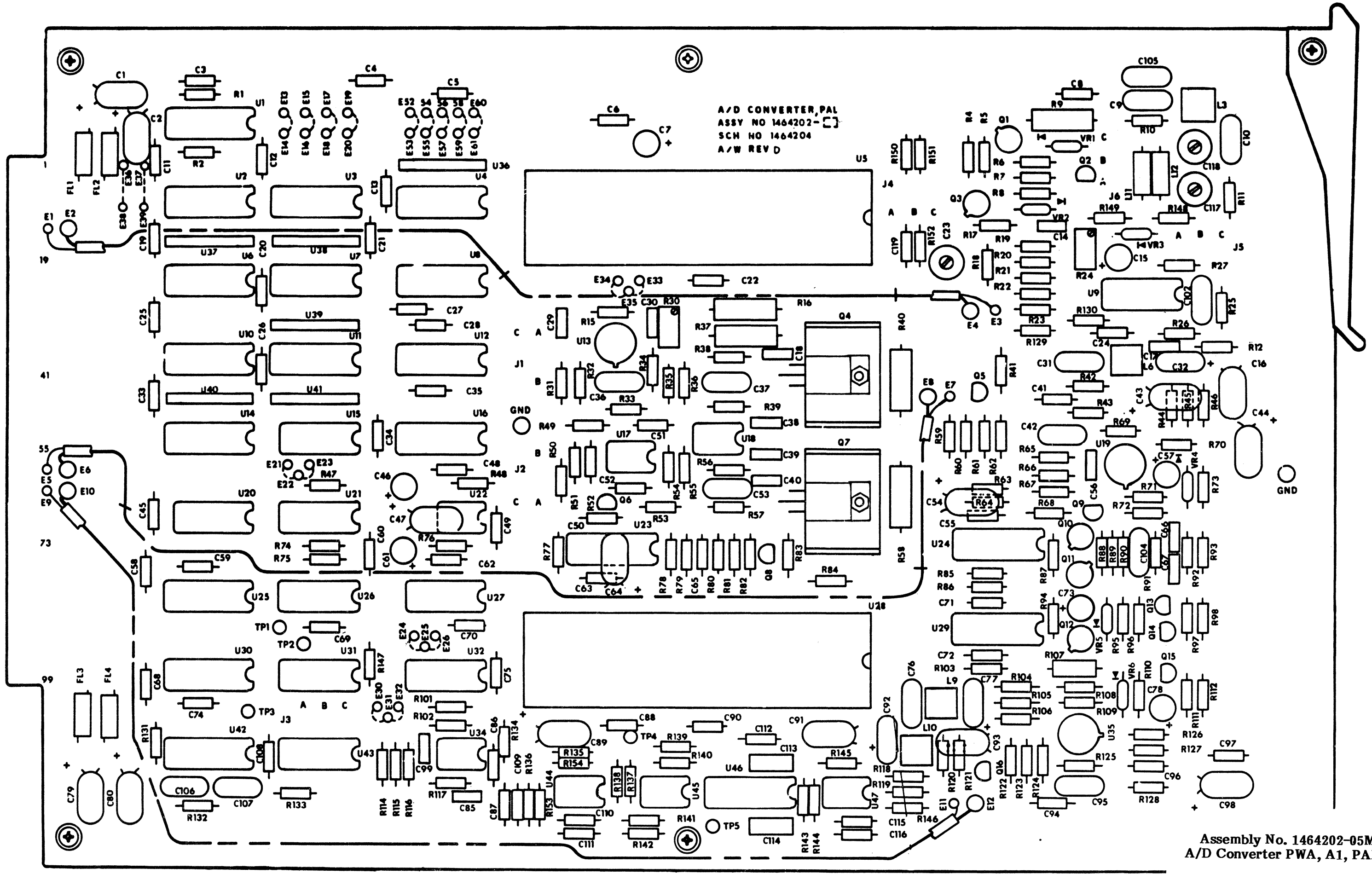
AMPX		AMPX CORPORATION REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1464202	REV M	
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER				
				-01	-02	-03	-04	-05
125	062-856	RESISTOR, M.F., 124 OHMS, 1/4W, ±1%	R129	1	1	1	1	1
126	062-874	200	R23	1	1	1	1	1
127	062-877	221	R11,20,41,118	4	4	4	4	4
128	062-880	249	R32	1	1	1	1	1
129	062-887	332	R21	1	1	1	1	1
130	062-941	2.21K	R35,54	2	2	2	2	2
131	062-969	5.11K	R140,141	2	2	2	2	2
132	062-972	5.62K	R15	1	1	1	1	1
133	062-983	1.7K	R137,138,153,154	4	4	4	4	4
134	066-020	121K	R101,102	2	2	2	2	2
135	076-071	RESISTOR, M.F., 5.36K OHMS, 1/4W, ±1%	R39,57	2	2	2	2	2
136								
137								
138								
139	058-452	RESISTOR, VARIABLE, 200 OHMS, .5W, 10%	R24	1	1	1	1	1
140	058-564	RESISTOR, VARIABLE, 500 OHMS, .5W, ±10%	R30	1	1	1	1	1
141								
142	602-044	SHORTING, PLUG, RED, 2 PINS	J1-6	6	6	6	6	6
143								
144								
145								
146	187-354	TERMINAL, TEST POINT	TP1-5	5	5	5	5	5
147								
148	014-780	TRANSISTOR, NPN, MPS6514-5	Q58,13,14,16	5	5	5	5	5
149	014-781	TRANSISTOR, PNP, MPS6518-5	Q2,6,9,15	4	4	4	4	4
150	580-873	TRANSISTOR, PNP, TIP125	Q4,7	2	2	2	2	2
151	580-918	TRANSISTOR, 2N5836	Q1,3,10,11,12	5	5	5	5	5
152								
153	143-981	CONN, SIGNAL CIRCUIT, JACK, P.C. TIP REF: J1-A,B,C-J6-A,B,C		18	18	18	18	18
154								
155	582-429	SOCKETS, I.C., 64 PIN, DIP		2	2	2	2	2
156								
157								
158								
159								
160	580-332	TRANSISTOR, MTG HDW, HEATSINK REF: Q4,7		2	2	2	2	2
161								
162	616-569	CABLE, COAXIAL, 75 OHM		A/R	A/R	A/R	A/R	A/R
163	600-036	SLEEVING, TEFLON, FLEXIBLE, .035 ID		A/R	A/R	A/R	A/R	A/R
164								
165	302-395	STRAP, CABLE, MOUSETAIL		6	6	6	6	6
166								
167	615-004	WIRE, SOLID, UNINSULATED, 24 AWG		A/R	A/R	A/R	A/R	A/R
168	283-105	SPACER, UNTHD, PLAIN, .140 ID X .125 LG		1	1	1	1	1
169								

LM-1464202

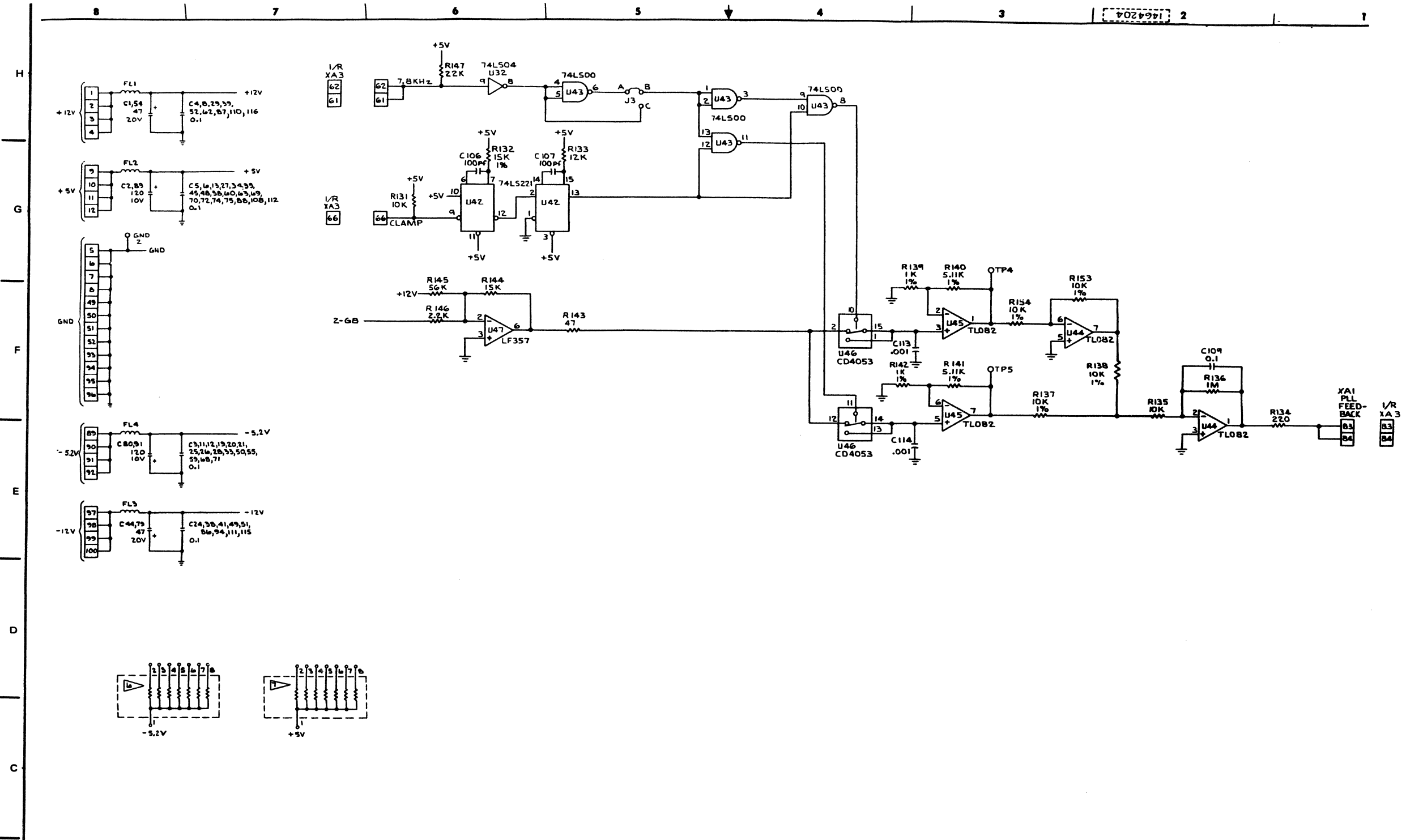
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER					
				101	102	103	104	105	

170	492-008	NUT, PLAIN, #4		2	2	2	2	2									
171																	
172	473-324	SCREW, PAN HD, X-REC, 4-40 X .250 LG		5	5	5	5	5									
173	473-326	SCREW, PAN HD, X-REC, 4-40 X .375 LG		3	3	3	3	3									
174																	
175	501-008	WASHER, PLAIN, .125 ID, #4		1	1	1	1	1									
176	501-169	WASHER, PLAIN, S/I PATTERN, .125 ID		5	5	5	5	5									
177	502-002	WASHER, LOCK, HELICAL, SPRING		2	2	2											
178	506-011	WASHER, BOWED, .257 MIN, ID		1	1	1	1	1									
179																	
180	582-168	TRANSISTOR, MTG. HDW., BUSHING, NYLON, #4 REF:Q4.7								-	2	2					

LM-1464202



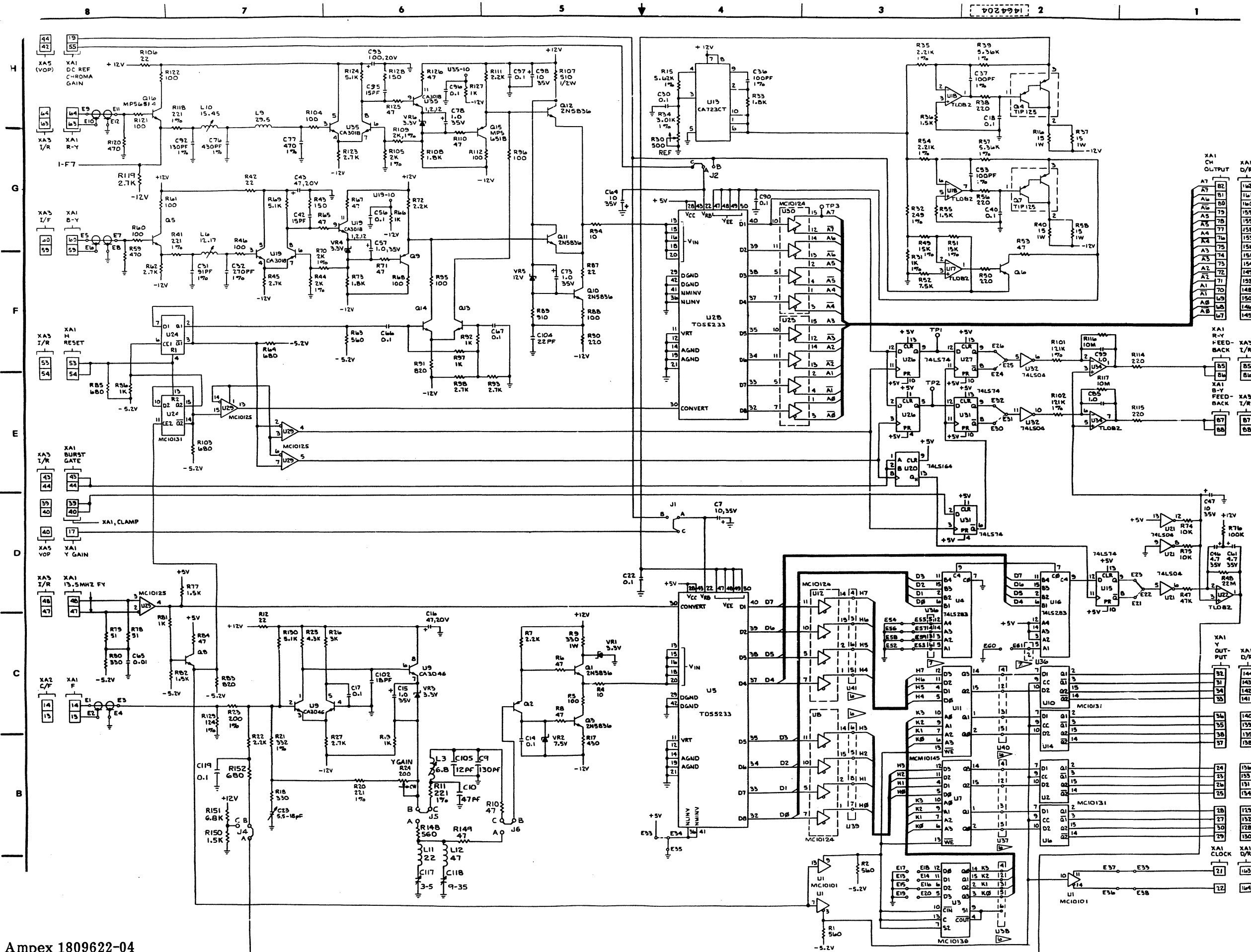
Assembly No. 1464202-05M.
 A/D Converter PWA, A1, PAL



NOTES: UNLESS OTHERWISE SPECIFIED.
 1. RESISTANCE VALUES ARE IN OHMS 1/4W, 5%
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 3. PNP TRANSISTOR MPS6518.
 4. NPN TRANSISTOR MPS6514.
 5. INDUCTANCE VALUES ARE IN MICROHENRIES.
 ▽ DESIGNATES PULL DOWN RESISTOR CONNECTION, SEE DETAIL AND IC LIST SHEET 1.
 ▽ DESIGNATES PULL UP RESISTOR CONNECTION, SEE DETAIL AND IC LIST SHEET 1.

REF. DESIGNATION	IC LIST								REFERENCE DESIGNATION	
	U1	U2,6,10,14,24	U3	U4,16	U5,28	U7,11	U8,12,25,30	LAST USED	NOT USED	
AMPEX P/N	001-073	590-326	587-550	590-606	589-685	590-049	590-564	C119	C81-84,100,101,103	
VENDOR P/N	MC10101	MC10131	MC10136	74LS285	TP5255	MCM10145	MC10124			
VOLTAGE (PIN)	-5.2V (8)	-5.2V (8)	-5.2V (8)	+5V (16)	+5V(8,45) -5V(47,49,50)	-5.2V (8)	+5V(9),-5.2V(8)			
GROUND (PIN)	(1,16)	(1,16)	(1,16)	(8)	(11,14,15,16) (12,13,17)	(16)	(16)			
REF. DESIGN.	U9	U13	U15,26,27,31	U17,22,34,44,45	U18	U19,35	U20	TP5	E27-29,40-51	
AMPEX P/N	590-721	586-321	589-820	590-602	590-612	586-204	589-827	E61		
VENDOR P/N	CA5046	CA725CT	74LS74	TLOB2	MC1458	CA5018	74LS164	FL4	U1,2,4,5,7,8	
VOLTAGE (PIN)			+5V (14)	+12V(8),-12V(4)	+12V(8),-12V(4)		+5V(14)	J6		
GROUND (PIN)			(7)				(7)	L12	U1,2,4,5,7,8	
REF. DESIGN.	U47	U46	U21,32	U23,29	U36	U37,39,40,41	U38	U42	U43	
AMPEX P/N	589-465	590-457	589-814	587-132	039-223	039-375	039-374	589-934	589-813	U47
VENDOR P/N	LF357	CD4053	74LS04	MC10125	1K.A.RES,5IP	820.A.RES,5IP	680.A.RES,5IP	74LS221	74LS00	VR16
VOLTAGE (PIN)	+12V(7),-12V(4)	+5V(16),-5.2V(7)	+5V(14)	+5V(16),-5.2V(8)				+5V(14)	+5V(14)	
GROUND (PIN)	(6,8)	(7)	(7)	(16)				(8)	(7)	

Schematic No. 1464204C.
 A/D Converter PWA, A1, PAL
 (Sheet 1 of 2)



Schematic No. 1464204C.
A/D Converter PWA, A1, PAL
(Sheet 2 of 2)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER							
				-05	-06	-07	-08	-09	-10	-11	
1				-03	-04	-05			5		
2											
3	1420126	SCHEMATIC		F	G	H		J	K	N	
4											
5											
6	1374190-07	ADJUSTABLE INDUCTOR ASSEMBLY, 3.9uH	L24	1	1			1	1	1	
7	1374190-09	ADJUSTABLE INDUCTOR ASSEMBLY, 2.6uH	L43	1	1			1	1	1	
8	1374191-01	TRANSFORMER, TAPPED, ADJUSTABLE, 45.7uH	T9	1	1			1	1	1	
9	1374191-03	TRANSFORMER, TAPPED, ADJUSTABLE, 30.1uH	T8	1	1			1	1	1	
10											
11	1374388-AD	INDUCTOR, VARIABLE, 2.2uH	L32	1	1			1	1	1	
12	1374388-AK	6.8uH	L7,9,11	3	3	3		3	3	3	
13	1374388-AL	8.2uH	L5	1	1			1	1	1	
14	1374388-AM	10uH	L6	1	1			1	1	1	
15	1374388-AP	15uH	L26,27	2	2	2		2	2	2	
16	1374388-AS	22uH	L4,23,28,29,42,47	6	6	6		6	6	6	
17	1374388-AW	INDUCTOR, VARIABLE, 47uH	L3	1	1			1	1	1	
18											
19	1420400-04	DELAY LINE, DUAL	DL1					1	1	1	
20	1379491-AD	TRANSFORMER, VARIABLE, 14.4uH	T7,10	2	2	2		2	2	2	
21	1379491-AF	TRANSFORMER, VARIABLE, 76.5uH	T3,11	2	2	2		2	2	2	
22	1400004-01	HANDLE, EXTRACTOR		1	1			1	1	1	
23	1420127-01	INDUCTOR, TAPPED, 3.36uH	L15-17,37-39	6	6	6					
24	1420400-02	DELAY, LINE	DL1	1	1						
25	1420404-01	SHIELD, ANALOG PWB		1	1			1	1	1	
26	1462928-AJ	LABEL, HANDLE EXTRACTOR		1	1			1	1	1	
27	1420400-03	DELAY LINE, DUAL	DL1								
28	1464237-01	INDUCTOR, FIXED, TAPPED, 2.58uH	L15-18,37-40					8	8	8	
29	030-963	CAPACITOR, CER., MONO, .1uF, 100V, ±10%	C149,150	2	2	2		2	2	2	
30	064-062	CAPACITOR, CER., MONO, .1uF, 100V, ±20%	C1,6,11,12,13,15,16,21,22,25,26,30,31,35,38,39,40,43,47,67,71,72,75,78,80-84,86,87,93-93,94,95,96,97,100,101,102,119,121,123,124,127,128,134-137,140,144,145,146,155,157,158,160,163-166,170,171,174,178-183,185,186,187,190-193,195,201,202,207	84	84	84		84	84	84	
31	064-298	CAPACITOR, CER., MONO, .01uF, 100V, ±20%	C18,44,46,73,74,85,125,130,131,132,138,139,172,173,184,208,210,211	18	18	18		18	18	18	

CANCELLED

LM-1420124

AMPEX		Amplex Corporation Redwood City, California		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1420124 2 of 8	REV W							
ITEM NO	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER								
						-05	-06	-07	-08	-09	-10	-11		
32	064-314	CAPACITOR, CER., MONO, 1.0uF, 50V, ±20%			C45,216	2				2	2	2		
33														
34	038-250	CAPACITOR, CER., VAR, 3-15pF, 100V			C88,122,203,206	4				4	4	4		
35	038-309	CAPACITOR, CER., VAR, 5.5-18pF, 350V			C109,147	2				2	2	2		
36														
37	034-156	CAPACITOR, MICA, 5pF, 500V, ±.5pF			C70,169,214	3				3	3	3		
38	034-157	2pF,	±.5pF		C141	1				1	1	1		
39	034-220	150pF,	±1%		C153,154,156	3				3	3	3		
40	034-221	200pF,	±1%		C27,28	2				2	2	2		
41	034-222	100pF,	±1%		C19,89,99,143,154, 162,189,212,213	9				9	9	9		
42	034-224	160pF,	±1%		C104,105	2				2	2	2		
43	034-225	220pF,	±1%		C111,112	2				2	2	2		
44	034-241	360pF,	±1%		C63,66	2				2	2	2		
45	034-248	50pF,	±1%		C55	1				1	1	1		
46	034-251	39pF,	±.5pF		C17	1				1	1	1		
47	034-252	82pF,	±1%		C41,133	2				2	2	2		
48	034-254	1300pF,	±1%		C62,65	2				2	2	2		
49	034-259	56pF,	±1%		C58	1				1	1	1		
50	034-260	110pF,	±1%		C199	1				1	1	1		
51	034-285	75pF,	±1%		C129	1				1	1	1		
52	034-309	560pF,	±1%		C69	1				1	1	1		
53	034-329	1000pF,	±1%		C61,64	2				2	2	2		
54	034-351	820pF,	±1%		C113,116	2				2	2	2		
55	034-360	24pF,	±.5pF		C76,175	2				-	-	-		
56	034-367	91pF,	±1%		C20,98,188,197, 198	5				5	5	5		
57	034-371	510pF,	±1%		C106	1				1	1	1		
58	034-376	33pF,	±.5pF		C52	1				1	1	1		
59	034-517	910pF,	±1%		C194	1				1	1	1		
60	034-540	51pF,	±1%		C48,59	2				2	2	2		
61	034-541	62pF,	±1%		C49	1				1	1	1		
62	034-543	240pF,	±1%		C200	1				1	1	1		
63	034-688	30pF,	±.5pF		C53,54,56,60, 108,148	6				6	6	6		
64	034-759	15pF,	±.5pF		C103,110,126	3				3	3	3		
65	034-918	68pF,	±1%		C114,117,142	3				3	3	3		
66														
67	056-022	6.8pF,	±.5pF		C196	1				1	1	1		
68	056-105	18pF,			C7,36,51	3				3	3	3		
69	056-140	20pF,			C217	1				1	1	1		
70	056-164	22pF,			C68,167	2				2	2	2		
71	056-204	16pF,			C218,219	2				2	2	2		
72	056-291	470pF,			C115,118	2				2	2	2		
73	056-580	12pF,			C50	1				1	1	1		
74	056-679	CAPACITOR, MICA, 27pF, 500V, ±.5pF			C57,215	2				2	2	2		
75														
76														

CANCELLED

LM-1420124

AMPEX | Ampex Corporation Redwood City, California		CODE IDENT NO 92739	LIST OF MATERIALS		LM-1420124		SHEET 3 of 8		REV W		
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER							
				-05	-06	-07	-08	-09	-10	-11	
77											
78	035-814	CAPACITOR, MYLAR, .033uF, 50V, ±5%	C9,10	2	2	2		2	2	2	
79	035-828	CAPACITOR, MYLAR, .022uF, 50V, ±5%	C8,37	2	2	2		2	2	2	
80	037-591	CAPACITOR, TANT, 1uF, 35V, ±20%	C205	1	1			1	1	1	
81	037-620	100uF, 20V, ±10%	C77,176	2	2	2		2	2	2	
82	037-746	47uF, 20V, ±10%	C3,4,5,23,32,33,34,107,152	9	9	9		9	9	9	
83	037-812	10uF, 25V, ±20%	C79,177,204	3	3	3		3	3	3	
84	037-892	47uF, 20V	C2,42,161	3	3	3		3	3	3	
85	037-954	22uF, 15V	C24,159	2	2	2		2	2	2	
86	037-965	CAPACITOR, TANT, 120uF, 10V, ±20%	C29,120	2	2	2		2	2	2	
87											
88											
89	570-386	DELAY LINE, 100 NS, T2B66-10	DL2	1	1			1	1	1	
90	570-511	DELAY LINE, 150 NS, SP526	DL3	1	1			1	1	1	
91											
92	013-962	DIODE, HOT CARRIER	CR6,7,11,12	4	4	4		4	4	4	
93	013-599	DIODE, SWITCHING	CR9,18	2	2	2		2	-	-	
94	581-810	DIODE, VARACTOR, MV2301	CR2-4,13-15	6	6			-	-	-	
95	013-166	DIODE, ZENER, 3.3V, IN746A	VR1-4,6,8,9	7	7	7		7	7	7	
96	013-167	DIODE, ZENER, 8.2V, IN756A	VR5	1	1			1	-	-	
97	013-224	DIODE, ZENER, 8.8V, IN754A	VR7	1	1			1	1	1	
98	581-810	DIODE, VARACTOR, MV2301	CR2-5,13-16					8	8	8	
99											
100	051-770	FERRITE - CHOKE	FL1-4	4	4	4		4	4	4	
101											
102	051-872	INDUCTOR, FIXED, 22uH, ±5%	L48	1	1			1	1	1	
103	051-899	91uH, ±10%	L20,33	2	2	2		2	2	2	
104	051-967	3.3uH, ±10%	L13,14,52,53	4	4	4		4	4	4	
105	068-008	68uH, ±10%	L49	1	1			1	1	1	
106	068-023	47uH, ±5%	L50,51,54	3	3	3		3	3	3	
107	068-057	.82uH, ±20%	L12,36	2	2	2		2	-	-	
108	068-128	INDUCTOR, FIXED, 4.7uH, ±10%	L21,22,34,35,55	5	5	5		5	5	5	
109											
110											
111	586-204	INTEGRATED CIRCUIT, CA3018	U7,12,20,26,28,35	6	6	6		6	6	6	
112	586-289	LM733CH	U13,29	2	2	2		2	2	2	
113	586-335	LM306	U36	1	1	1		1	1	1	
114	586-959	MC1496G	U16,27	2	2	2		2	2	2	
115	587-932	CA3080	U15,30	2	2	2		2	2	2	
116	589-814	74LS04	U21	1	1	1		1	1	1	
117	590-326	MC10131	U19,31	2	2	2		2	2	2	
118	590-450	CD4053	U3,9,23,39	4	4	4		4	4	4	
119	590-540	CA3054	U11,37	2	2	2		2	2	2	
120	590-543	MC10116	U8,18,22,32,34	5	5	5		5	5	5	
121	590-602	INTEGRATED CIRCUIT, TL082CP	U4,14,38	3	3	3		3	3	3	

CANCELLED

LM-1420124

AMPEX		Ampex Corporation Redwood City, California		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1420124	REV W				
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER							
				-05	-06	-07	-08	-09	-10	-11	
122	590-612	INTEGRATED CIRCUIT, MC1458	U17,33	2	2	2		2	2	2	
123	590-721	INTEGRATED CIRCUIT, CA3046	U1,2,5,6	4	4	4		4	4	4	
124	590-735	INTEGRATED CIRCUIT, TL082ACP	U10	1	1	1		1	1	1	
125											
126											
127											
128	039-223	NETWORK, RESISTOR, 1K OHMS, ±2%	U40-42	3	3	3		3	3	3	
129											
130	066-660	RESISTOR, C.F., 22 OHMS, 1/4W, ±5%	R42,274	2	2	2		2	2	2	
131	066-663	220	R118,135,189,220,228,237	6	6	6		6	6	6	
132	066-665	1K	R44,51,55,58,60,64,110,117,144,158,185,206,232,240,251,260,282,283,285,299,305	21	21	21		21	21	21	
133	066-666	2.7K	R65,113,157,210,234	5	5	5		5	5	5	
134	066-667	3K	R4,5,10,11,71,119,120,151,238,239,256,267	12	12	12		12	12	12	
135	066-668	4.7K	R67,128,146,167,248	5	5	5		5	5	5	
136	066-669	8.2K	R259	1	1	1		1	1	1	
137	066-675	1.8K	R115,188,241,292	4	4	4		4	4	4	
138	066-677	68	R3,9,27,28,35,36,41,48,53,59,141,142,177,178	14	14	14		14	14	14	
139	066-689	2.2K	R33,34,52,104,226	5	5	5		5	5	5	
140	066-711	7.5K	R127,249	2	2	2		2	2	2	
141	066-715	1.2K	R191,193	2	2	2		2	2	2	
142	066-717	47K	R72,122,148,246,255	5	5	5		5	5	5	
143	066-720	3.3K	R121,145,247	3	3	3		3	3	3	
144	066-810	10	R68,74,116,155,194,204,242	7	7	7		7	7	7	
145	066-811	51	R165,166	2	2	2		2	2	2	
146	066-812	100	R25,26,81,114,233,273,286,294,303	9	9	9		9	-	-	
147	066-813	150	R49,62,133,134,170,171,270,293,308,309	10	10	10		10	10	10	
148	066-817	430	R82,173,216	3	3	3		3	3	-	
149	066-818	470	R69,108,124,139,140,164,172,175,179,182,186,187,224,225,230,244,258,310,311	19	19	19		19	19	19	
150	066-820	750	R77	1	1	1		1	1	1	
151	066-823	1.1K	R160	1	1	1		1	1	1	
152	066-824	1.5K	R16,21,50,126,212,250	6	6	6		6	6	6	
153	066-825	1.6K	R7,13	2	2	2		2	2	2	
154	066-826	2K	R168,183,184	3	3	3		3	-	-	
155	066-827	3.9K	R38,88,89,137,221,276,277,302	8	8	8		8	-	-	
156	066-828	4.3K	R75,112,136,205,222,236,280	7	7	7		7	7	7	
157	066-829	6.8K	R288,290	2	2	2		2	2	2	
158	066-830	10K	R30,31,46,125,243,261,269	7	7	7		7	7	7	
159	066-832	18K	R109,231	2	2	2		2	2	2	
160	066-834	33	R86,87,278,279	4	4	4		4	-	-	
161	066-838	330	R15,20	2	2	2		2	2	2	
162	066-839	560	R307	1	1	1		1	1	1	
163	066-840	680	R37,39,138,174,223,257	6	6	6		6	6	6	
164	066-842	RESISTOR, C.F., 5.1K OHMS, 1/4W, ±5%	R13,24,47,63,80,130,131,159,217,219,304	11	11	11		11	-	-	

CANCELLED

LM-1420124

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1420124	REV W					
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER								
				-05	-06	-07	-08	-09	-10	-11		
165	066-849	RESISTOR, C.F., 100K OHMS, 1/4W, ±5%	R8,14	2	2	2		2	2	2		
166	066-852	62K	R61	1	1			1	1	1		
167	066-856	15K	R56	1	1			1	1	1		
168	066-913	220K	R287,289	2	2	2		2	2	2		
169	066-938	47	R143,176	2	2	2		2	2	2		
170	PENDING		R271	2	1			1	1	1		
171	076-004	180	R153	1	1			1	1	1		
172	076-022	2.7	R163,180,181	3	3	3		3	3	3		
173	076-036	12	R6,12	2	2	2		2	2	2		
174	076-045	RESISTOR, C.F., 75 OHMS, 1/4W, ±5%	R291	1	1			1	1	1		
175	066-817	RESISTOR, C.F., 430 OHMS, 1/4W, ±5%	R173,216								2	
176	062-898	RESISTOR, M.F., 432 OHMS, 1/4W, ±1%	R82								1	
177												
178	041-793	RESISTOR, COMP., 10 MEG OHMS, 1/4W, ±5%	R312	1	1	1		1	1	1		
179	062-862	RESISTOR, M.F., 143 OHMS, 1/4W/±.1%	R105,227			2		2	2	2		
180	062-624	RESISTOR, M.F., 1K OHMS, 1/4W, ±1%	R54,85,93,98,275	5	5	5		5	5	5		
181	062-624	1K	R195,196,201,203,208,209	6	6							
182	062-642	6.81K	R300	1	1	1		1	1	1		
183	062-643	2K	R18,23	2	2	2		2	2	2		
184	062-694	15K	R147,149,252,254	4	4	4		4	4	4		
185	062-833	71.5	R95,97,100,102	4	4	4		4	4	4		
186	062-836	75	R73,272	2	2	2		2	2	2		
187	062-837	76.8	R1,2	2	2	2		2	2	2		
188	062-856	124	R199	1	1	1		1	1	1		
189	062-861	140	R105,227	2	2							
190	062-864	150	R111,235,295,296,297,298	6	6	6		6	6	6		
191	062-866	162	R162	1	1	1		1	1	1		
192	062-872	191	R94,99	2	2	2		2	2	2		
193	062-874	200	R190,192,200	3	3	3		3	3	3		
194	062-875	210	R66	1	1	1		1	1	1		
195	062-877	221	R17,22	2	2	2		2	2	2		
196	062-884	301	R91,161	2	2	2		2	2	2		
197	062-886	316	R152	1	1	1		1	1	1		
198	062-887	332	R156	1	1	1		1	1	1		
199	062-898	432	R90,92	2	2	2		2	2	2		
200	062-902	499	R107,229,263,264,265,266	6	6	6		6	6	6		
201	062-902	499	R202,211	2	2							
202	062-905	536	R45	1	1	1		1	1	1		
203	062-912	649	R132,169	2	2	2		2				
204	062-913	681	R96,101	2	2	2		2	2	2		
205	062-934	1.62K	R281	1	1	1		1	1	1		
206	062-948	2.55K	R83	1	1	1		1				
207	062-961	3.92K	R301	1	1	1		1	1	1		
208	062-964	4.53K	R215	1	1	1		1				
209	062-966	RESISTOR, M.F., 4.75K OHMS, 1/4W, ±1%	R314	1	1	1		1	1	1		

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LM-1420124

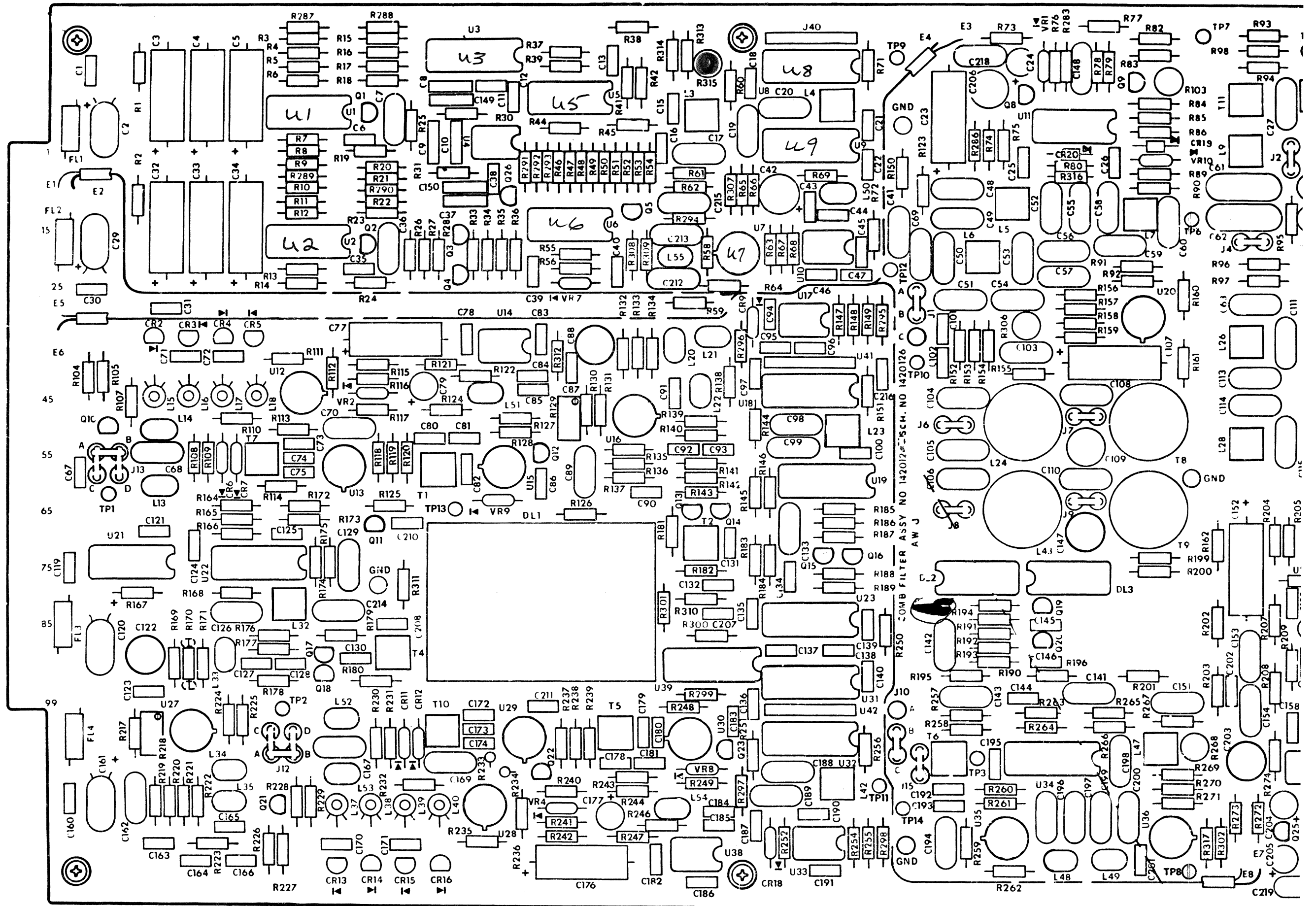
AMPEX Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS		LM-1420124	SHEET 6 of 3		REV W				
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESG	QTY REQD PER DASH NUMBER								
				-05	-06	-07	-08	-09	-10	-11		
210	062-969	RESISTOR, M.F., 5.11K OHMS, 1/4W, ±1%	R79,214	2	2	2		2	2	2		
211	062-987	13.3K	R123	1	1	1		1	1	1		
212	066-022	200K	R84	1	1	1		1	1	1		
213	066-078	3.24K	R284	1	1	1		1	1	1		
214	066-158	11.3K	R150	1	1	1		1	1	1		
215	066-160	6.04K	R76,78	2	2	2		2	2	2		
216	066-194	324	R207,213	2	2	2		2	2	2		
217	066-288	590	R262	1	1	1		1	1	1		
218	066-791	1370	R154	1	1	1		1	1	1		
219	076-347	RESISTOR, M.F., 82.5K OHMS, 1/4W, ±1%	R313	1	1	1		1	1	1		
220	066-992	RESISTOR, M.F., 1K OHMS, 1/4W, ±1%	R195,196,201, 203,208,209			5		6	6	6		
221	079-252	RESISTOR, M.F., 499 OHMS, 1/4W, ±1%	R202,211			2		2	2	2		
222												
223	044-941	RESISTOR, VAR., 100 OHMS, .5W, ±20%	R306	1	1	1		1	1	1		
224	058-004	1K 1W, ±10%	R268	1	1	1		1	1	1		
225	058-564	500 1/2W, ±10%	R129,218	2	2	2		2	2	2		
226	058-610	RESISTOR, VAR., 20K OHMS, 1/2W, ±20%	R103,315	2	2	2		2	2	2		
227												
228	560-471	TRANSFORMER, WIDEBAND	T1,2,4-6	5	5	5		5	5	5		
229												
230	014-780	TRANSISTOR, NPN, MPS6514	Q1,2,8-10,13-19, 21,24,25	15	15	15		15	15	15		
231	014-781	TRANSISTOR, PNP, MPS6518	Q3-5,12,20,23, 26	7	7	7		7	7	7		
232	579-096	TRANSISTOR, FET, MPF970	Q11,22	2	2	2		2	2	2		
233												
234	187-354	TERMINAL PUSH-IN	TP1-14	14	14	14		14	14	14		
235	143-981	CONN. SIGNAL CKT, JACK, P.C., TIP	REF: J1-10,12,13,14, 15	36	36	36		36	36	36		
236												
237	283-105	SPACER, UNTHD, .140 ID		1	1	1		1	1	1		
238												
239	473-324	SCREW, PAN HD., XREC, 4-40 X .250 LG		5	5	5		5	5	5		
240	473-326	SCREW, PAN HD., XREC, 4-40 X .375 LG		1	1	1		1	1	1		
241												
242	501-008	WASHER, PLAIN, #4		1	1	1		1	1	1		
243	501-169	WASHER, PLAIN, SM PATTERN, .125 ID		5	5	5		5	5	5		
244	506-011	WASHER, BOWED, .257 MIN. ID		1	1	1		1	1	1		
245												
246	582-329	I.C., MTG HDW, 8 PIN	REF: U4,10,14,17,33, 38	6	6	6		6	6	6		
247	582-330	I.C., MTG HDW, 14 PIN	REF: U1,2,5,6,11,21, 37	7	7	7		7	7	7		
248	582-331	I.C., MTG HDW, 16 PIN	REF: U3,8,9,18,19,22, 23,31,32,34,39	11	11	11		11	11	11		
249												
250	602-044	PLUG, SHORTING, RED	J1-10,12-15	14	14	14		14	14	14		
251												
252	615-004	WIRE, SOLID, UNINSULATED, 24 AWG		AR	AR	AR		AR	AR	AR		
253	615-154	WIRE, INSULATED, 30 AWG, GRN		AR	AR	AR		AR	AR	AR		
254	018-407	ADHESIVE, SILICONE, SEALING	REF: L15-18,37-40								A/R	

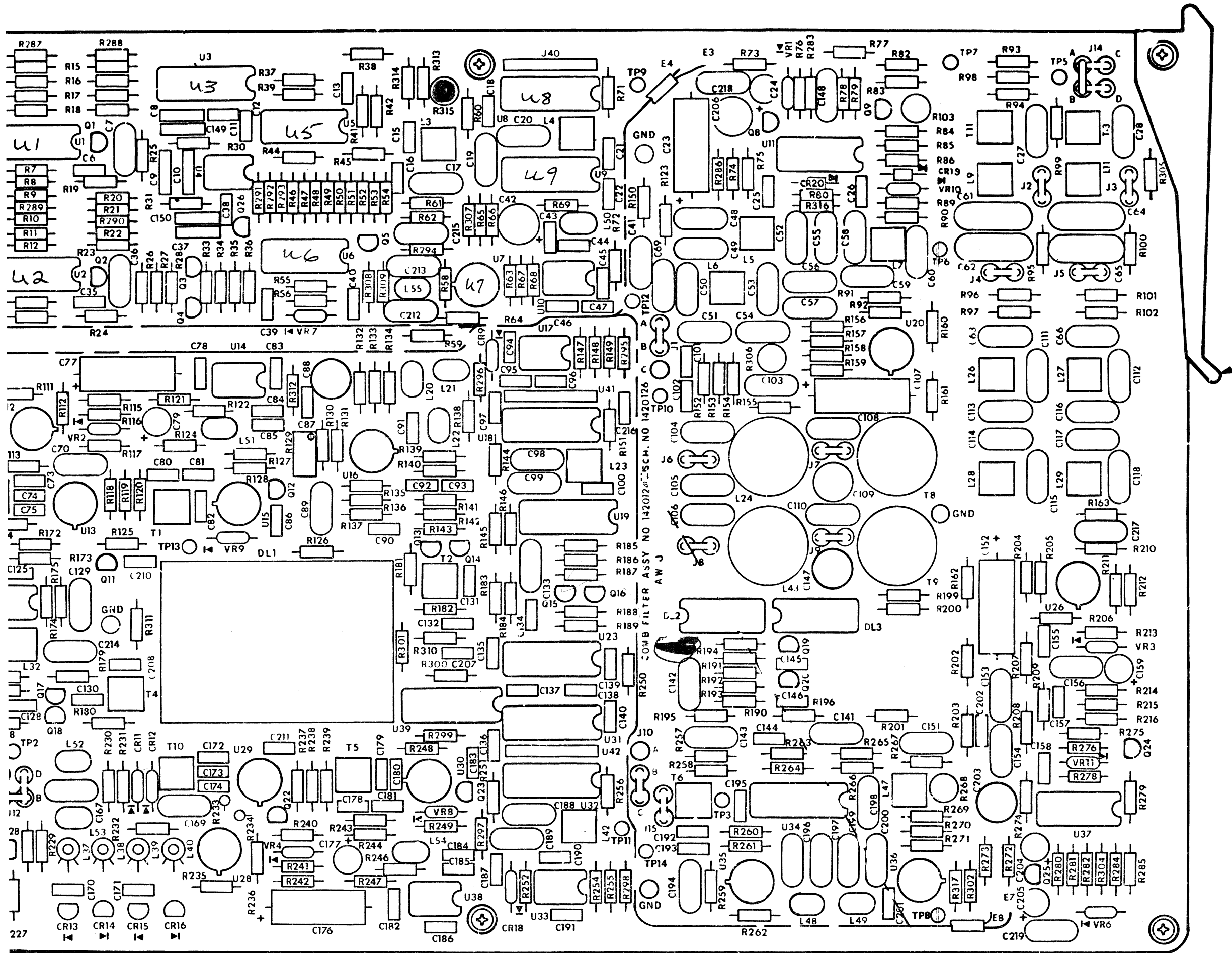
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LM-1420124

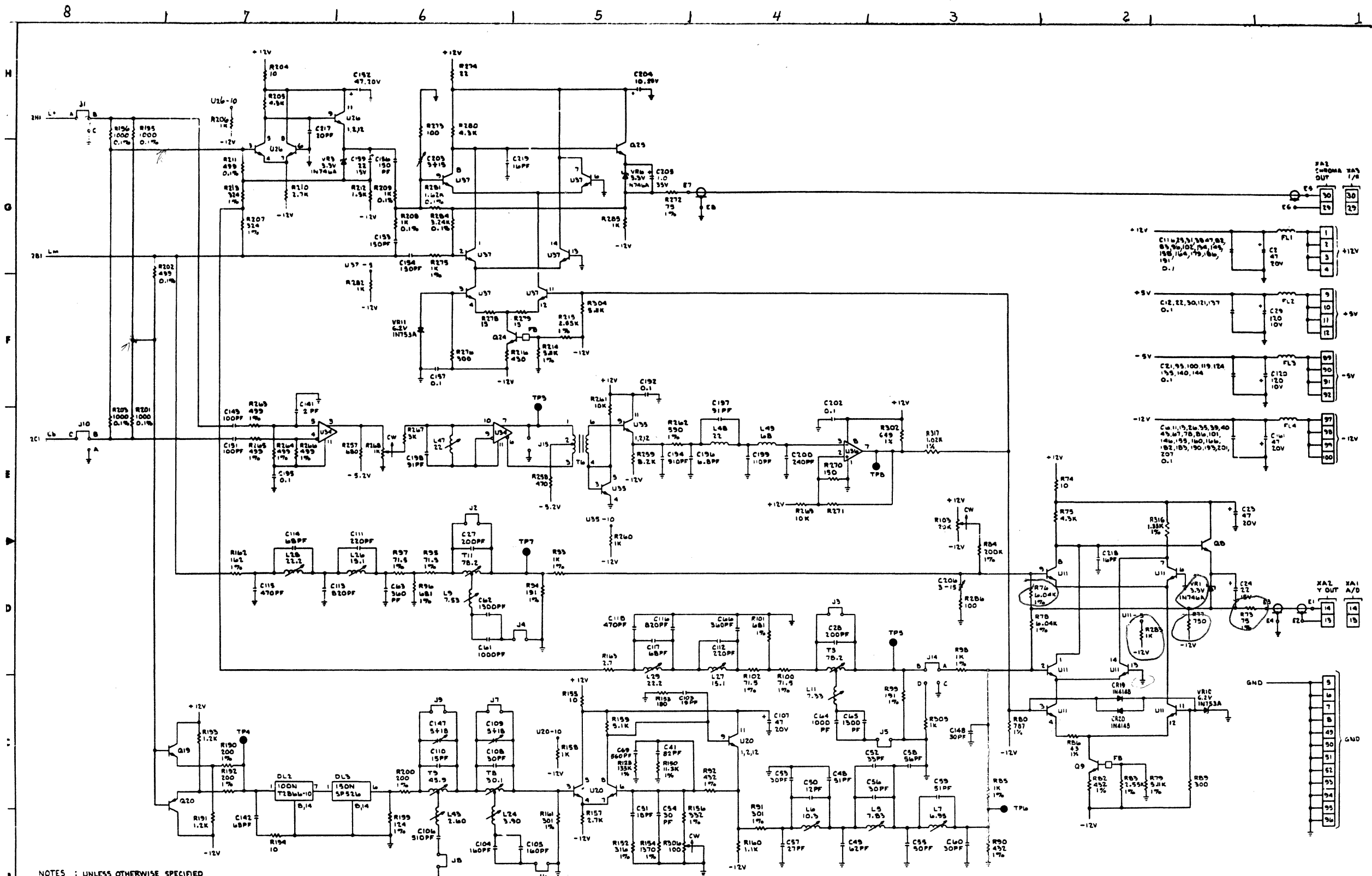
AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1420124	REV W					
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER D/SH NUMBER								
				-05	-06	-07	-08	-09	-10	-11		
255	616-569	CABLE, COAX		AR	AR	AR	AR	AR	AR			
256												
257	932-035	SHIELDED BEAD, .118 LG	BASE OF- 09,10,24,R170	5	5	5		5	5	5		
258												
259	581-105	DIODE, SWITCHING, 1N4148	CR19,20					-	-	-		
260	013-257	DIODE, ZENER, 6.2V	VR10,11					-	2	2		
261												
262	066-815	RESISTOR, COMP, 300 OHMS, 1/4W, 5%	R89,276					-	2	2		
263	066-826	RESISTOR, COMP, 2K OHMS, 1/4W, 5%	R168,183,184,316					-	4	-		
264	066-935	RESISTOR, COMP, 15 OHMS, 1/4W, 5%	R278,279					-	2	2		
265	066-826	RESISTOR, COMP, 2K OHMS, 1/4W, ±5%	R168,183,184								3	
266	062-813	RESISTOR, M.F., 43.2 OHMS, 1/4W, 1%	R86					-	1	1		
267	062-948	2.55K	R215					-	-	-		
268	062-912	649	R302					-	-	-		
269	066-706	1.02K	R317					-	1	1		
270	066-793	RESISTOR, M.F., 787 OHMS, 1/4W, 1%	R80					-	1	1		
271	066-812	RESISTOR, C.F., 100 OHMS, 1/4W, ±5%	R25,26,114,233,273,286,294					-	7	7		
272	066-827	RESISTOR, C.F., 3.9K OHMS, 1/4W, ±5%	R38,137,221					-	3	3		
273	066-842	RESISTOR, C.F., 5.1K OHMS, 1/4W, ±5%	R19,24,47,63,130,131,159,217,219,304					-	10	10		
274	013-599	DIODE, SWITCHING, 1N4148	CR9,18-20					-	4	4		
275	062-948	RESISTOR, M.F., 2.55K OHMS, 1/4W, ±1%	R83,215					-	2	2		
276	062-912	RESISTOR, M.F., 649 OHMS, 1/4W, ±1%	R132,169,302					-	3	3		
277	062-931	RESISTOR, C.F., 1.33K OHMS, 1/4W, ±1%	R316								1	
NOTES:												
1 MATCH TO ±.1%												
2 FOR FUTURE USE												
3 STATIC SENSITIVE DEVICE, SPECIAL HANDLING												
REQUIRED PER AMPEX STD HE1-1.												

LM-1420124





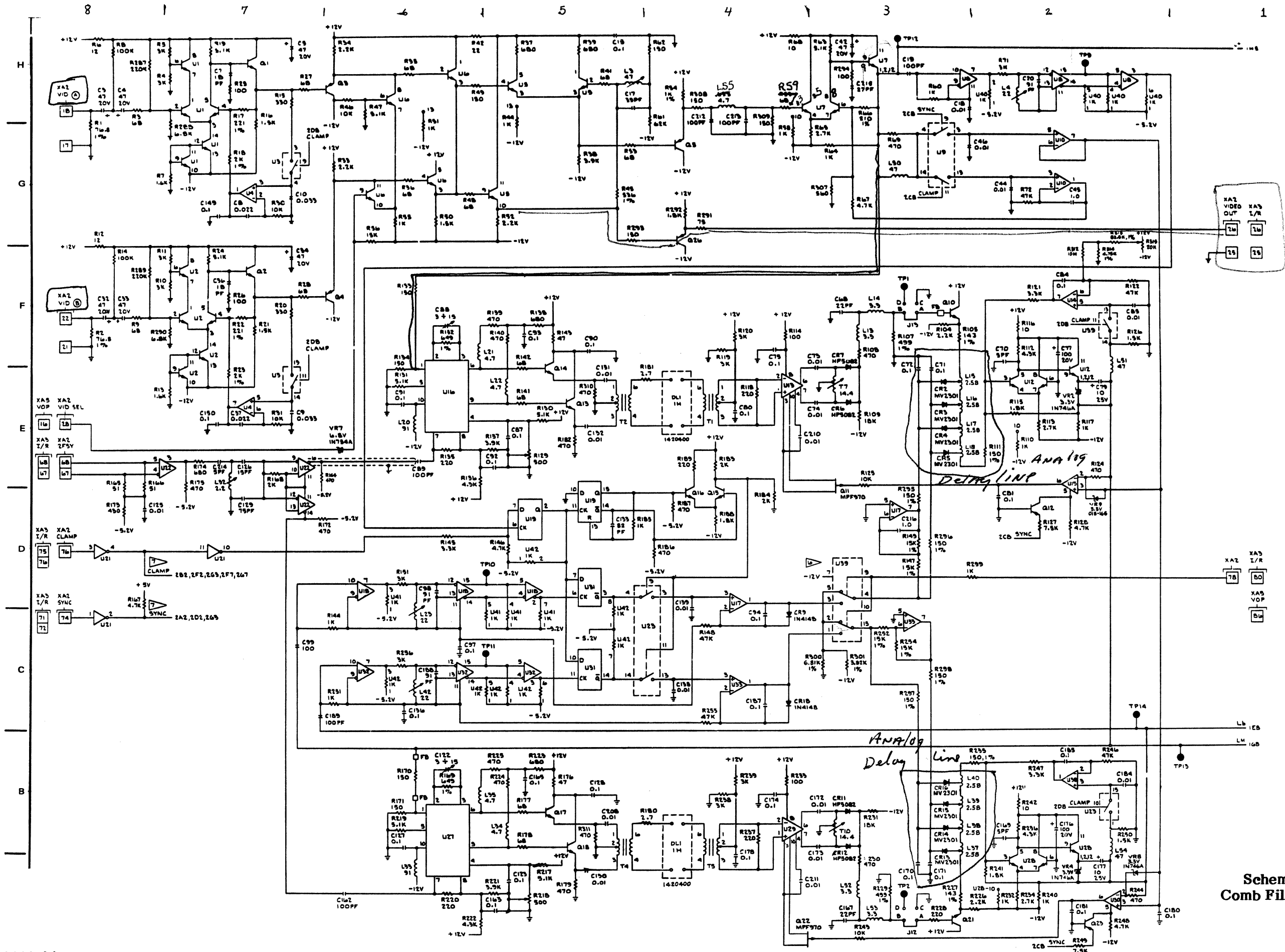
Assembly No. 1420124-11W.
Comb Filter PWA, A2, NTSC



- NOTES : UNLESS OTHERWISE SPECIFIED
1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 3. INDUCTANCE VALUES ARE IN MICROHENRIES.
 4. NPN TRANSISTORS ARE MPS4514.
 5. PNP TRANSISTORS ARE MPS451B.
- ▢ IC VOLTAGES PER TABLE
 ▽ SYNC, SPL.
 ▽ CLAMP, SPL.
 ▢ STATIC SENSITIVE DEVICE, SPECIAL HANDLING REQUIRED PER AMPEX STD HBI-1

REF. DES.		I.C. TABLE						
LAST USED	NOT USED	REF. DES.	U1, 2, 5, 6	U3, 9, 23, 35	U4, 10, 14, 38	U7, 12, 20, 26, 28, 35	U8, 18, 22, 32, 34	U11, 37
C215	C16, 168, 229, C76, C175, C81, 810, 17	AMPEX P/N	590-721	590-450	590-602	586-204	590-543	590-540
CR20		VENDOR P/N	CA5046	CD4053	TLOB2CP	CA5018	MC10116	CA5054
E11		VOLTAGE PIN	(1)+5V(7)-5V	(1)+5V(7)-5V	(8)+12V(4)-12V	(8)+12V(4)-12V	(8)-5V	(8)+12V(4)-12V
J15		GROUND PIN	(16, 8)	(16, 8)	(16, 8)	(16, 8)	(16, 8)	(16, 8)
L55		REF. DES.	U13, 29	U15, 30	U16, 27	U17, 33	U19, 31	U21
Q16		VENDOR P/N	586-289	587-932	586-959	590-612	590-326	589-814
Q17		VENDOR P/N	LM733CH	CA5080	MC14966	MC1458	MC10131	74LS04
DL3		VOLTAGE PIN	(8)+12V	(7)+12V(4)-12V	(8)+12V(4)-12V	(8)+12V(4)-12V	(8)-5V	(14)+5V
T1		GROUND PIN	(7)	(7)	(7)	(7)	(7)	(1)
TP14								
U42								
VR11								

Schematic No. 1420126N.
Comb Filter PWA, A2, NTSC
(Sheet 1 of 2)





Schematic No. 1420126N.
Comb Filter PWA, A2, NTSC
(Sheet 2 of 2)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																		
				-01	-02																	
1																						
2																						
3	1465004	SCHEMATIC																				
4																						
5																						
6	1374388-AD	INDUCTOR, VARIABLE, 2.2uH	L44		1	1																
7	1374388-AE	2.7uH	L24,31		2	2																
8	1374388-AF	3.3uH	L33,43		2	2																
9	1374388-AH	4.7uH	L10,11,27		3	3																
10	1374388-AJ	5.6uH	L9		1	1																
11	1374388-AK	6.8uH	L5,7		2	2																
12	1374388-AM	10uH	L6		1	1																
13	1374388-AR	18uH	L4,23,42		3	3																
14	1374388-AS	22uH	L25,28		2	2																
15	1374388-AU	33uH	L26,29		2	2																
16	1374388-AV	INDUCTOR, VARIABLE, 39uH	L1		1	1																
17																						
18																						
19	1379491-AD	TRANSFORMER, VARIABLE, 14.4uH	T2,10		2	2																
20	1379491-AE	35.2uH	T4		1	1																
21	1379491-AF	76.5uH	T7,12,13		3	3																
22	1379491-AK	67uH	T1		1	1																
23	1379491-AL	TRANSFORMER, VARIABLE, 26.9uH	T5,6		2	2																
24																						
25	1420404-01	SHIELD, ANALOG PWB			1	1																
26	1462928-AJ	LABEL, HANDLE EXTRACTOR			1	1																
27	1464218-01	EJECTOR, PWB			1	1																
28	1464237-01	INDUCTOR, FIXED, TAPPED, 2.58uH	L13-16,38-41		8	8																
29	1464362-01	DELAY LINE, DUAL	DL1		1	1																
30																						
31																						
32	030-963	CAPACITOR, CER., MONO., .1uF, 100V, ±10%	C148,149		2	2																
33	064-062	CAPACITOR, CER., MONO., .1uF, 100V, ±20%	C1,3,11,12,14,17,18,19,22,24-29,38,41,43,44,46-50,59,65,76,78,79,82,86-91,93,95,97-104,109,133,134,137,138,140,142,143,145,146,154,157,161,164-168,171,172,173,174,176,177,179,180,183,184,185,188,196,197,198,204,208,214,215,216		84	84																

LM-1465002

AMPEX | Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS		LM-1465002	SHEET 2 OF 8		D											
ITEM NO.	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER													
						-01	-02												
34	064-298	CAPACITOR, CER., MONO., .01uF, 100V, ±20%			C34,39,40,80,81, 92,147,152,155, 156,159,160,162, 169,170,175,186, 187,201,233,206	21	21												
35	064-314	CAPACITOR, CER., MONO., 1.0uF, 50V, ±20%			C42,107,191, 192	4	4												
36																			
37	034-156	CAPACITOR, MICA, 5pF, 500V, ±.5pF			C84,151,158	3	3												
38	034-215	10pF	±.5pF		C114	1	1												
39	034-219	120pF	±1%		C62	1	1												
40	034-220	150pF			C119,126,211, 212,220	5	5												
41	034-222	100pF			C32,33,35,45, 96,106,141,182	8	8												
42	034-225	220pF			C51,63	2	2												
43	034-237	750pF			C70	1	1												
44	034-252	82pF			C178	1	1												
45	034-253	330pF			C110,111,189	3	3												
46	034-259	56pF			C74,122,195	3	3												
47	034-260	110pF			C55	1	1												
48	034-285	75pF			C36,150	2	2												
49	034-297	180pF			C127,200	2	2												
50	034-298	390pF			C199,202	2	2												
51	034-351	820pF	±1%		C73	1	1												
52	034-360	24pF	±.5pF		C120,131	2	2												
53	034-367	91pF	±1%		C61,105,181	3	3												
54																			
55	034-376	33pF	±.5pF		C194	1	1												
56	034-517	910pF	±1%		C75,125	2	2												
57	034-540	51pF	±1%		C58	1	1												
58	034-541	62pF	±1%		C60	1	1												
59	034-543	240pF	±1%		C121,129	2	2												
60	034-688	30pF	±.5pF		C64	1	1												
61	034-759	15pF	±.5pF		C144,207	2	2												
62	034-918	68pF	±1%		C52,67,69,72, 118,130,190	7	7												
63																			
64																			
65																			
66	056-105	18pF	±.5pF		C13,15	2	2												
67	056-140	20pF	±.5pF		C71,117,128, 213	4	4												
68	056-164	22pF	±.5pF		C77,153	2	2												
69	056-204	16pF	±.5pF		C56,219	2	2												
70	056-291	470pF	±1%		C123,205	2	2												
71	056-580	12pF	±.5pF		C53	1	1												
72	056-603	47pF	±.5pF		C66	1	1												
73	056-679	CAPACITOR, MICA, 27pF, 500V, ±.5pF			C30,31,112,193	4	4												
74	069-090	" Polyester 1000pF 50V ±5%			C226	1	1												
75	035-814	CAPACITOR, MYLAR, .033uF, 50V, ±5%			C20,21	2	2												
76	035-828	CAPACITOR, MYLAR, .022uF, 50V, ±5%			C16,23	2	2												

LM1465002

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1465002	REV D	SHEET 3 OF 8											
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER															
				-01	-02														
77	037-591	CAPACITOR, TANT., 1uF, 35V, ±20%	C218	1	1														
78	037-812	CAPACITOR, TANT., 10uF, 25V, ±20%	C85,116,132, 217,223,225	6	6														
79	037-892	CAPACITOR, TANT., 47uF, 20V, ±20%	C2,5-10,37,54, 108,136,210	2	12														
80	037-901	CAPACITOR, TANT., 100uF, 20V, ±10%	C83,163	2	2														
81	037-954	CAPACITOR, TANT., 22uF, 15V, ±20%	C57,68,124, 221,224	5	5														
82	037-965	CAPACITOR, TANT., 120uF, 10V, ±20%	C4,135	2	2														
83																			
84																			
85	038-250	CAPACITOR, CER., VAR., 3-15pF	C94,139,209, 222	4	4														
86																			
87																			
88	570-386	DELAY LINE, 100 NS, T2866-10	DL2	1	1														
89	570-511	DELAY LINE, 150 NS, SP526	DL3	1	1														
90																			
91	013-599	DIODE, SWITCHING	CR7,14	2	2														
92	013-962	DIODE, HOT CARRIER	CR5,6,8,9	4	4														
93																			
94	581-810	DIODE, VARACTOR, MV2301	CR1-4,10-13	8	8														
95																			
96	013-166	DIODE ZENER, 3.3V, 1N746A 	VR2,4-11	9	9														
97	013-224	DIODE ZENER, 6.8V, 1N754A	VR1	1	1														
98	013-983	DIODE, ZENER, 5.6V, 1N752A	VR3	1	1														
99																			
100	051-770	FERRITE CHOKE	FL1-4	4	4														
101																			
102	051-899	INDUCTOR, FIXED, 91uH, ±10%	L20,30	2	2														
103	051-967	INDUCTOR, FIXED, 3.3uH, ±10%	L17,18,36,37	4	4														
104	068-023	INDUCTOR, FIXED, 47uH, ±5%	L3,19,32	3	3														
105	068-128	INDUCTOR, FIXED, 4.7uH, ±10%	L2,21,22,34,35	5	5														
106																			
107	000-147	INTEGRATED CIRCUIT, NE521NB	U13,29	2	2														
108	002-936	CA3080	U22,43	2	2														
109	586-204	CA3018	U10,19,28,39, 41	5	5														
110	586-289	LH733CH	U20,42	2	2														
111	586-959	MC1496G	U23,40	2	2														
112	589-813	74LS00	U17	1	1														
113	589-814	74LS04	U33	1	1														
114	589-934	74LS221	U16	1	1														
115																			
116	590-326	MC10131	U27,37	2	2														
117	590-329	74LS123	U12	1	1														
118	590-450	CD4053 	U3,9,14,35,36	5	5														
119	586-778	CA3054	U15,48,49,50 U8,26,34,38,	4	4														
120	590-543	MC10116	46	5	5														
121	530-602	INTEGRATED CIRCUIT, TLO82CP	U4,21,44	3	3														

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AMPEX Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS		LM-1465002	SHEET 4 OF 8		D											
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER															
				-01	-02														
122	590-612	INTEGRATED CIRCUIT, MC1458	U24,47	2	2														
123	590-721	INTEGRATED CIRCUIT, CA3046	U1,2,5,6,18, 30,31,32	8	8														
124	590-735	INTEGRATED CIRCUIT, TL082ACP	U11		1														
125																			
126																			
127																			
128	039-223	NETWORK, RESISTOR, 1K OHMS, 2%	U7,25,45	3	3														
129																			
130	066-935	RESISTOR, COMP, 15 OHMS, 1/4W, ±5%	R375,376	2	2														
131																			
132	066-660	RESISTOR, C.F., 22 OHMS, 1/4W, ±5%	R43,198,219, 345,346,367	6	6														
133	066-663	220	R148,163,204,254, 295,303,312	7	7														
134	066-665	1K	R47,56,60,67,69, 70,97,105,118,121, 142,147,173,183, 250,271,272,273, 276,282,286,307, 315,324,327,334, 338,339,343,344, 351,357,358,359, 379,382	36	36														
135	066-666	2.7K	R72,140,192, 288,310,360	6	6														
136	066-667	3K	R5,6,17,18,78,149, 150,180,205,218, 313,314,440	13	13														
137	066-668	4.7K	R75,126,130,155, 175,200,220,222, 325,347,348,384	12	12														
138	066-675	1.8K	R49,128,145, 213,253,316	6	6														
139	066-677	68	R4,15,33,34,37,38, 42,53,58,68,168, 169,232,233	14	14														
140	066-689	2.2K	R35,36,57,77,135, 301,335,340,365	9	9														
141	066-711	7.5K	R154,326	2	2														
142	066-715	1.2K	R262,264,353, 355	4	4														
143	066-717	47K	R80,152,177, 323,332	5	5														
144	066-720	3.3K	R151,174,320	3	3														
145	066-810	10	R76,94,146,181, 261,283,317,383	8	8														
146	066-811	51	R228,229	2	2														
147	066-812	100	R29,32,66,93,143, 160,197,199,206, 217,224,287,309, 336,337,341,342, 363	18	18														
148	066-813	150	R50,62,63,65,161, 162,225,226	8	8														
149	066-817	430	R235,371	2	2														
150	066-818	470	R79,138,153,166, 167,227,234,237, 238,241,245,246, 251,252,281,299, 300,305,319	19	19														
151	066-820	750	R98	1	1														
152	066-823	1.1K	R185	1	1														
153	066-824	1.5K	R10,24,55,84, 85,242,255,290	8	8														
154	066-825	1.6K	R13,20	2	2														
155	066-826	RESISTOR, C.F., 2K, OHMS, 1/4W, ±5%	R230	1	1														

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AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1465002	REV D													
						SHEET 5 OF 8														
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-01	-02															
156	066-827	RESISTOR, C.F., 3.9K OHMS, 1/4W, ±5%	R39,165,296, 373,374	5	5															
157	066-828	4.3K	R95,144,164, 284,297,311,377	7	7															
158	066-829	6.8K	R8,25,81,82	4	4															
159	066-830	10K	R30,31,51,240, 318,361	6	6															
160	066-832	18K	R139,306	2	2															
161	066-838	330	R9,23	2	2															
162	066-839	560	R71	1	1															
163	066-840	680	R40,41,171,236 298,354	6	6															
164	066-841	1.3K	R352,356	2	2															
165	066-842	5.1K	R22,28,52,74,157,158, 182,292,294,380	10	10															
166	066-849	100K	R14,21	2	2															
167	066-851	510K	R44	1	1															
168	066-852	62K	R64	1	1															
169	066-856	15K	R61	1	1															
170	066-860	39K	R187,188	2	2															
171	066-865	12K	R88,91	2	2															
172	066-866	27K	R196	1	1															
173	066-913	220K	R3,16,321	3	3															
174	066-938	47	R87,90,170,215, 231,274,277, 349,350	9	9															
175	066-940	2.2 MEG	R256,257	2	2															
176																				
177	076-004	180	R184	1	1															
178	076-022	2.7	R239,243	2	2															
179	076-036	12	R7,19	2	2															
180	076-045	RESISTOR, C.F., 75 OHMS, 1/4W, ±5%	R48	1	1															
181																				
182																				
183	057-872	RESISTOR, M.F., 562 OHMS, 1/4W, ±1%	R122	1	1															
184	062-562	12.4K	R104	1	1															
185	062-601	100K	R109	1	1															
186	062-624	1K	R59,110,372	3	3															
187	062-642	6.81K	R247	1	1															
188	062-643	2K	R12,27	2	2															
189	062-684	243	R268	1	1															
190																				
191	062-694	15K	R176,178,329, 331	4	4															
192	062-880	249	R134	1	1															
193	062-836	75	R92,264	2	2															
194	062-837	76.8	R1,2	2	2															
195	062-856	124	R269	1	1															
196	062-862	143	R136,302	2	2															
197	062-864	150	R54,141,172,179, 308,328,333	7	7															
198	062-868	RESISTOR, M.F., 169 OHMS, 1/4W, ±1%	R120,210	2	2															
199																				

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AMPEX

Ampex Corporation
REDWOOD CITY, CALIFORNIA

CODE IDENT NO.
92739






LIST OF MATERIALS

LM-1465002
SHEET 6 OF 8

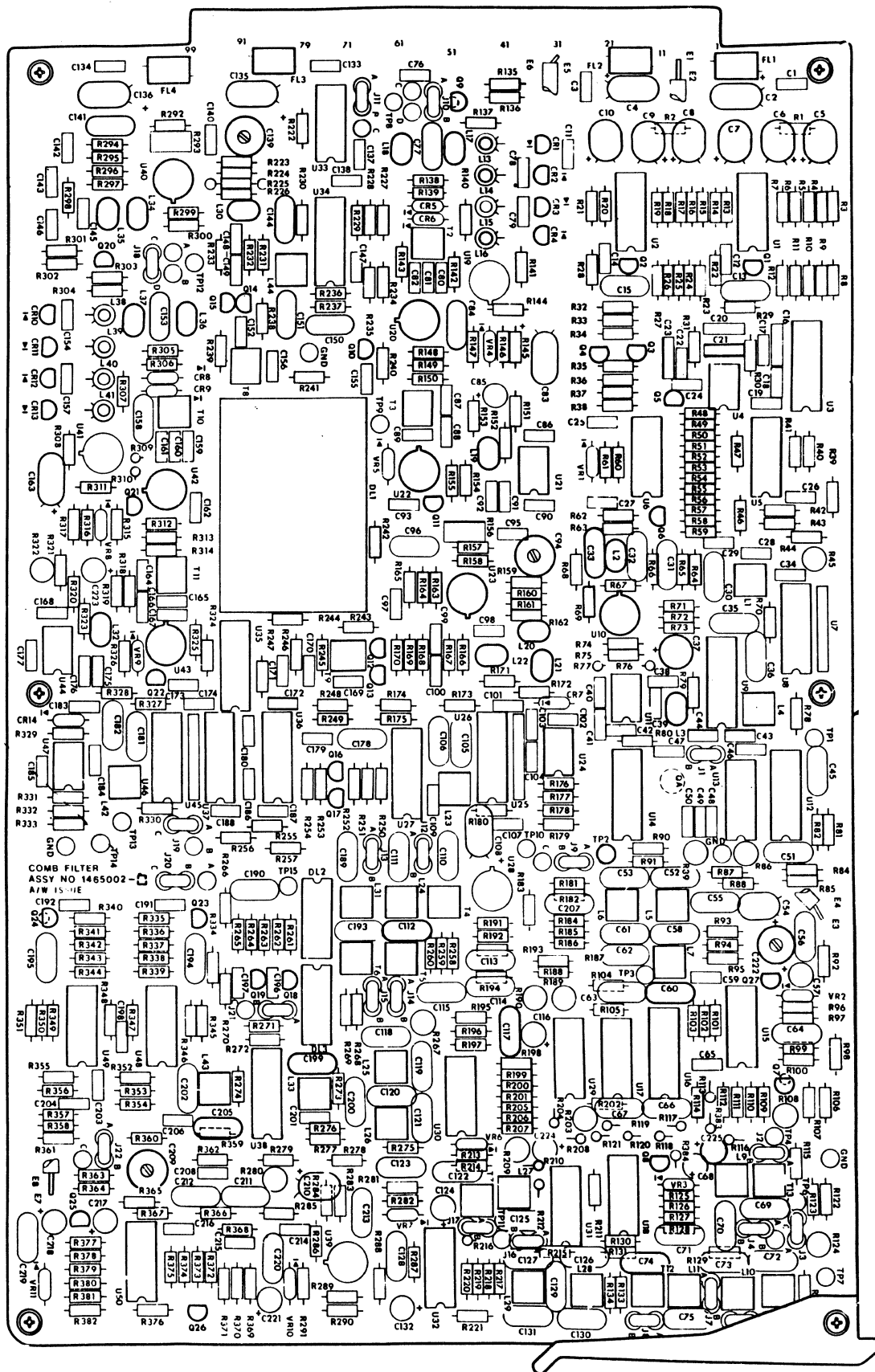
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ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-01	-02															
200	062-874	RESISTOR, M.F., 200 OHMS, 1/4W, ±1%	R263,265	2	2															
201	062-875	210	R73		1															
202	062-876	215	R125,127,131,211	4	4															
203	062-877	221	R11,26,201	3	3															
204	062-882	274	R214,216	2	2															
205	062-883	287	R221	1	1															
206	062-884	301	R129,186,191	3	3															
207	062-887	332	R115,119,212	3	3															
208	062-890	365	R259		1															
209	062-897	422	R195,275,278	3	3															
210	062-898	432	R106,116,193	3	3															
211	062-900	464	R132,133	2	2															
212	062-902	499	R137,304	2	2															
213	062-905	536	R46	1	1															
214	062-912	649	R159,223	2	2															
215	062-916	750	R291		1															
216	062-918	825	R207		1															
217	062-931	1.33K	R101		1															
218	062-932	1.5K	R202		1															
219	062-934	1.62K	R378		1															
220	062-937	1.82K	R113,114	2	2															
221	062-941	2.21K	R102,103,258	3	3															
222	062-948	2.55K	R107,370	2	2															
223	062-954	3.16K	R123		1															
224	062-961	3.92K	R244		1															
225	062-969	5.11K	R100,369	2	2															
226																				
227	066-078	3.24K	R381		1															
228	066-152	1.47K	R249		1															
229	066-160	6.04K	R96,99	2	2															
230																				
231	066-441	698	R285		1															
232	066-653	22.1	R111,112	2	2															
233	066-703	487	R117,208	2	2															
234	076-157	1.96K	±1% R248		1															
235																				
236	066-992	1K	±.1% R266,270,279,362	4	4															
237	079-252	RESISTOR, M.F., 499 OHMS, 1/4W, ±.1%	R289,366,368	3	3															
238																				
239																				
240																				
241	044-891	RESISTOR, VAR., 200 OHMS, .5W, ±20%	R124		1															
242	044-927	500	R89,209	2	2															
243	044-941	100	R280		1															
244	058-001	RESISTOR, VAR., 50K OHMS, .5W, ±20%	R267		1															

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AMPEX Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1465002 SHEET 7 OF 8	REV D								
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02								
245	058-004	RESISTOR, VAR., 1K OHMS, .5W, ±30%	R86,189,190		3								
246	058-251	RESISTOR, VAR., 100K OHMS, 1/2W, ±20%	R45,322		2								
247	058-564	RESISTOR, VAR., 500 OHMS, 1/2W, ±10%	R156,293		2								
248	058-610	RESISTOR, VAR., 20K OHMS, 1/2W, ±20%	R108			1							
249	058-611	RESISTOR, VAR., 10K OHMS, 1/2W, ±20%	R203			1							
250													
251													
252													
253	602-044	SHORTING PLUG, RED 	J1,3-4,6,7,9-13,16,18-22		6	16							
254													
255	187-354	TERMINAL PUSH-IN	TP1-4,6-15		4	14							
256	173-024	TERMINAL, TURRET	GND		4	4							
257	560-471	TRANSFORMER, WIDEBAND	T3,8,9,11		4	4							
258													
259	014-780	TRANSISTOR, NPN, MPS6514	Q1,2,7-9,12-18,20,23-27		18	18							
260	014-781	TRANSISTOR, PNP, MPS6518	Q3-6,11,19,22		7	7							
261	579-096	TRANSISTOR, FET, MPF970	Q10,21		2	2							
262													
263	143-981	CONN, SIGNAL CKT, P.C. TIP	REF: J1-A, B, J8-A, B, J9-A, B, C, J10-A, B, C, D, J11-A, B, C, J12-A, B, J17-A, B, J18-A, B, C, D, J19-A, B, C, J22-A, B, C		54	54							
264	932-035	SHIELDING, BEAD, .188 LG.	REF: R225, Q7B, 9B, 24B		5	5							
265	616-569	CABLE, COAX		AR		A/R							
266													
267													
268	473-324	SCREW, PAN HD., XREC, 4-40 X .250 LG			5	5							
269	473-326	SCREW, PAN HD., XREC, 4-40 X .375 LG			1	1							
270													
271													
272	283-105	SPACER, UNTHD, .140 ID			1	1							
273													
274	501-008	WASHER, PLAIN, #4			1	1							
275	501-169	WASHER, PLAIN, SM PATT, .125 ID			5	5							
276	506-011	WASHER, BOWED			1	1							
		NOTES:											
		 PRESET TO 30.1uH											
		 USE MOTOROLA ONLY											
		 J2,5,8,14,15,17 SHORING PLUGS USED AT TEST ONLY. NOT REQUIRED AT ASSEMBLY.											
		 STATIC SENSITIVE DEVICE, SPECIAL HANDLING REQUIRED PER AMPEX STANDARD HE1-1.											

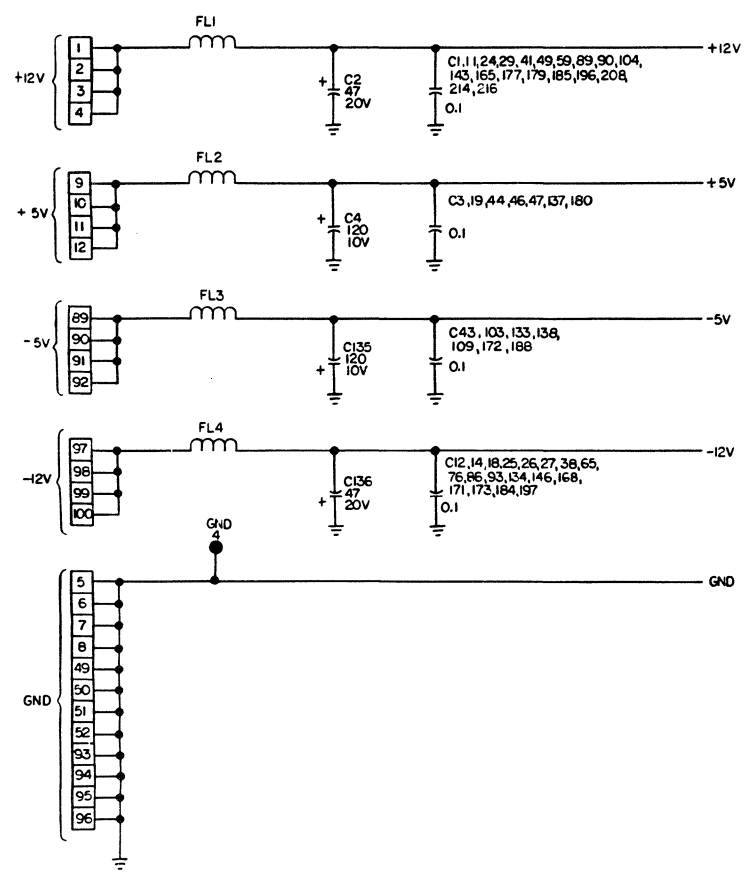
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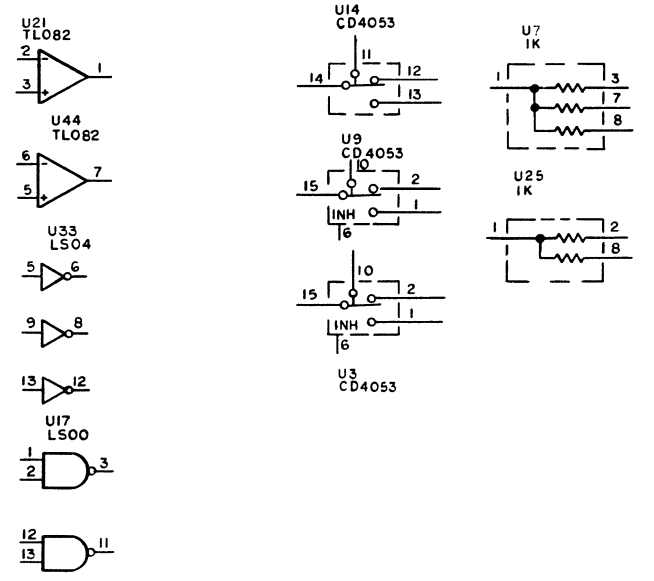
Assembly No. 1465002-02D. Comb Filter PWA, A2, PAL

NOTE: UNLESS OTHERWISE SPECIFIED:
 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 3. INDUCTANCE VALUES ARE IN MICRORHENRIES.
 ⚠️ STATIC SENSITIVE DEVICE, SPECIAL HANDLING REQUIRED PER AMPEX STANDARD HEI-1.

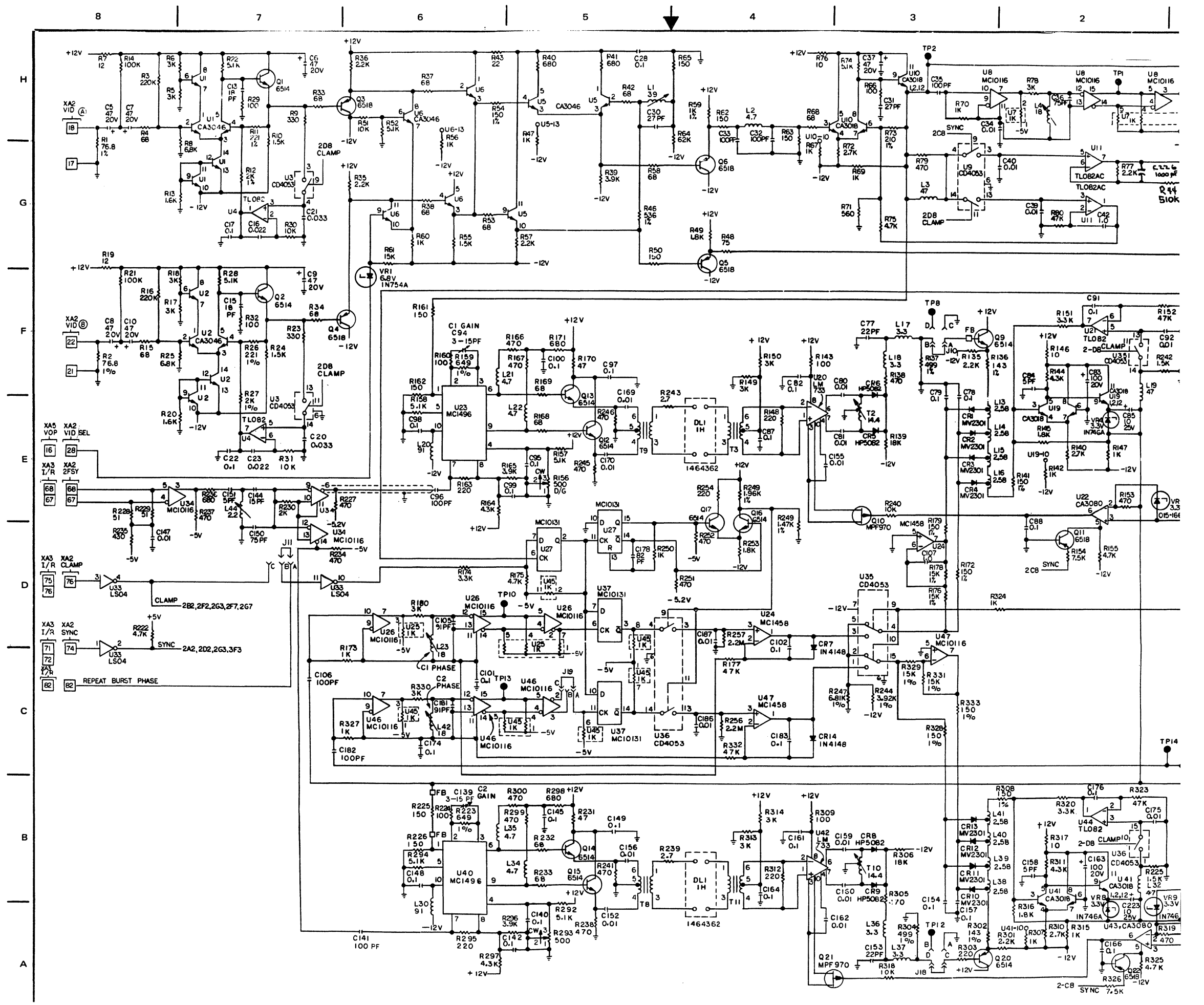
REFERENCE DESIGNATIONS		I.C. LIST								I.C. LIST							
LAST USED	NOT USED	REFERENCE DESIGNATION	AMPEX P/N	VENDOR P/N	GND PIN	POWER PINS				REFERENCE DESIGNATION	AMPEX P/N	VENDOR P/N	GND PIN	POWER PINS			
						+5V	-5V	+12V	-12V					+5V	-5V	+12V	-12V
C225	C113, 115	U1, 2, 5, 6, 18, 30, 31, 32	590-721	CA3046						U15, 48, 49, 50	586-776	CA3054					
Ch14		U3, 9, 14, 36	590-450	CD4053	8	16	7			U20, 42	586-289	LM733CH	5				8
DL3		U4, 21, 44	590-602	TLO82CP				8	4	U22, 43	002-936	CA3080					7 4
FL4		U8, 26, 34, 38, 46	590-543	MC10116	1, 16					U23, 40	586-959	MC1496G					8 4
J22		U10, 19, 28, 39, 41	586-204	CA3018						U24, 47	590-612	MC1458					8 4
L44	L8, 12	U11	590-735	TLO82ACP				8	4	U27, 37	590-326	MC10131	1, 16				8
R384	R23, R173, 194 R260, 266, 263, 341	U12	590-329	74LS123	8	16				U33	589-814	74LS04	7	14			
TI3		U13, 29	000-147	NES21N	7	14	13			U7	589-813	74LS00	7	14			
TP15		U35	590-450	CD4053	8	16			7	U16	589-934	74LS221	8	16			
U50										U7, 25, 45	039-223	RES. NET					1
VR11																	
Q27																	



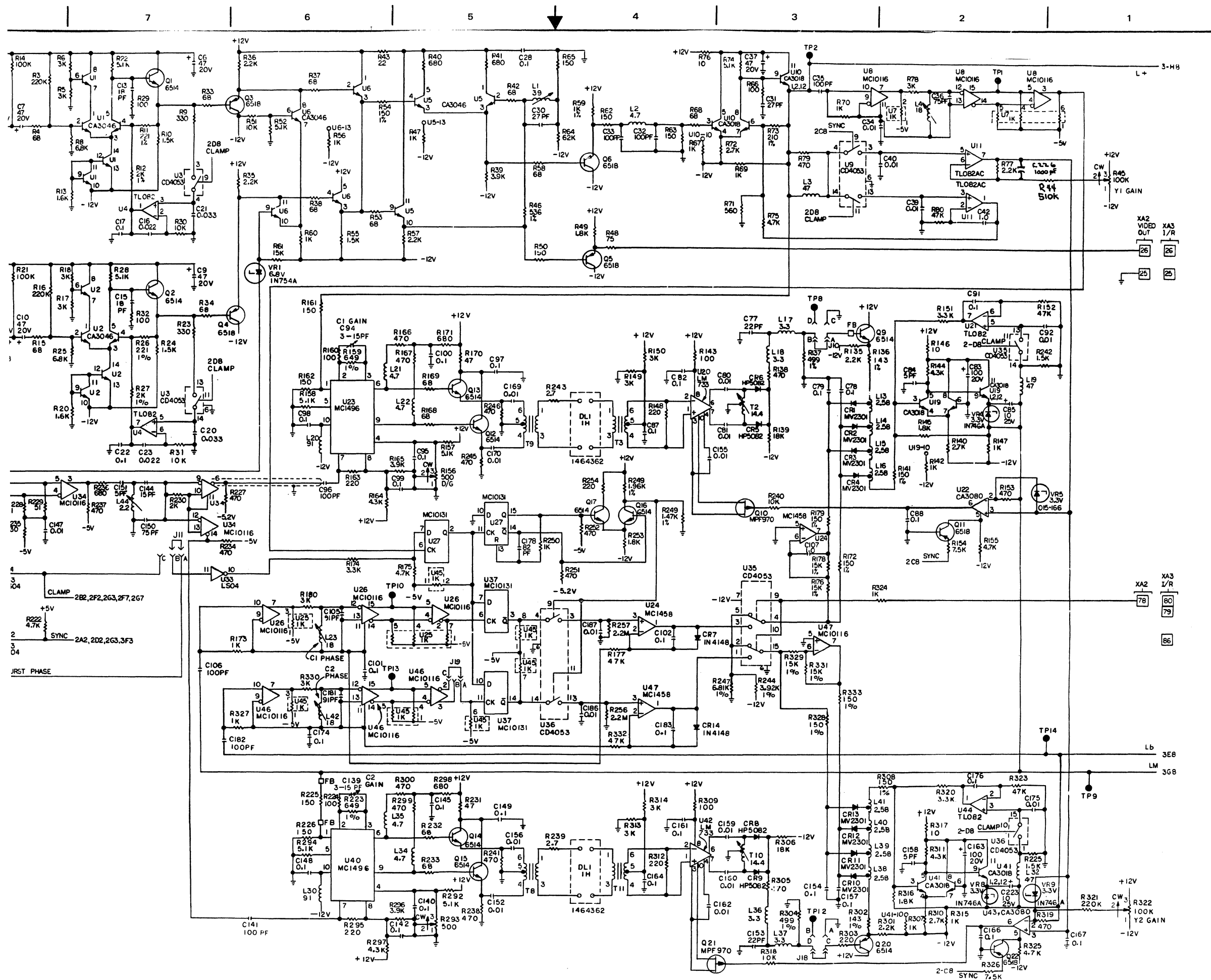
SPARES



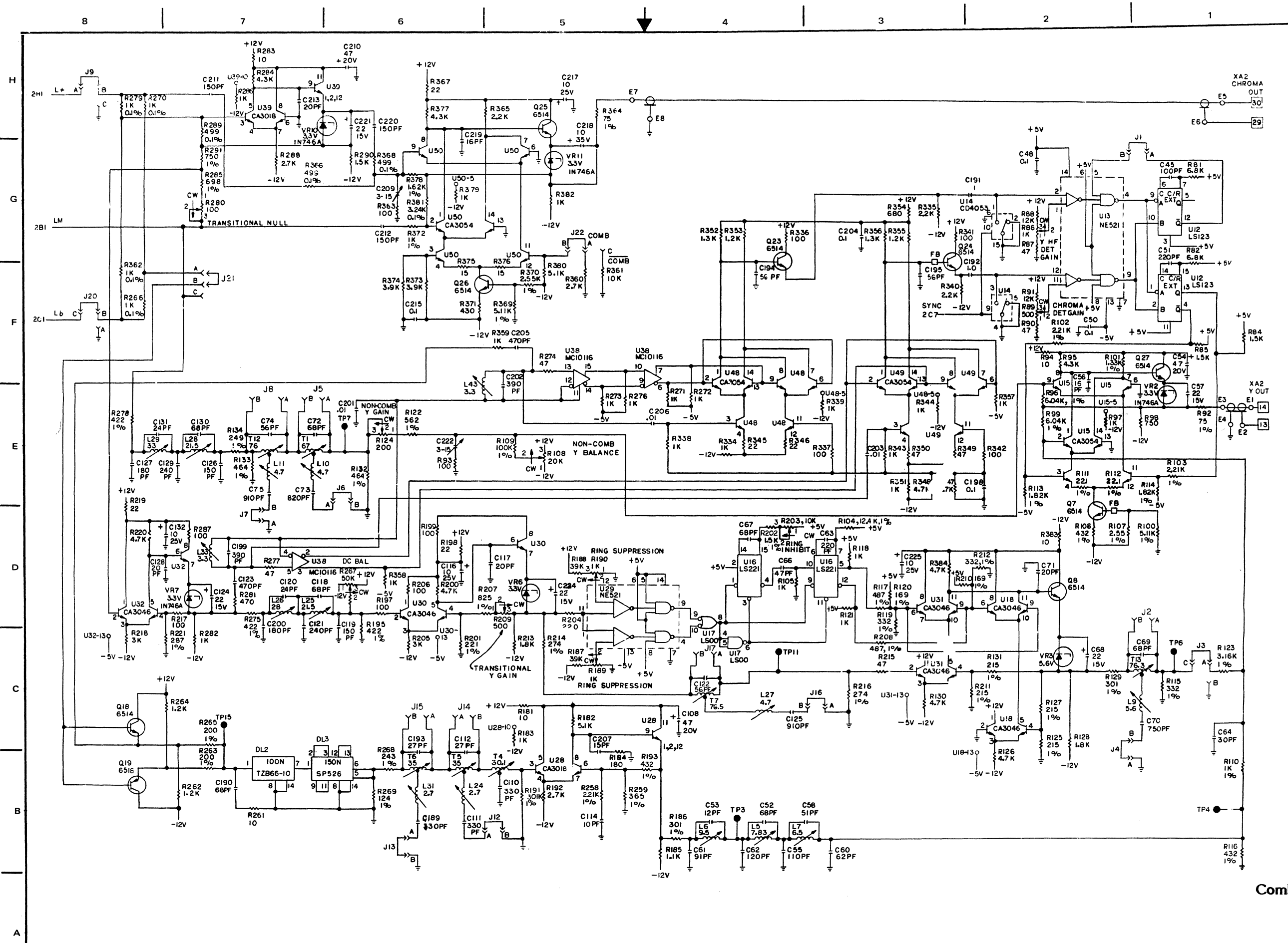
Schematic 1465004C.
 Comb Filter PWA, A2, PAL
 (Sheet 1 of 3)



Ampex 1809622-05



Schematic 1465004C.
Comb Filter PWA, A2, PAL
(Sheet 2 of 3)



Schematic 1465004C.
Comb Filter PWA, A2, PAL
(Sheet 3 of 3)

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER						
					-05	-06	-07	-08			
1											
2											
3	1420077		SCHEMATIC		(F)	(G)	(H)	(J)	(K)	(M)	
4	1462928-AR		LABEL		1	1	1	1	1	1	
5	1400004-01		HANDLE EXTRACTOR		1	1	1	1	1	1	
6	1420404-01		SHIELD, ANALOG		1	1	1	1	1	1	
7											
8											
9	064-652		CAPACITOR, CER., TUBULAR, .01uF, 50V, ±20%	C35,44,60,62,80 81,82,129,138	9	9	9	9	9	9	
10	064-653		CAPACITOR, CER., TUBULAR, .1uF, 50V, ±20%	C2,9,10,14,24,25 30,32-34,38-43, 45,50-53,61,63, 84,86,88-91,94,95 98,111-116,119,120, 122-124,130-137,141	52	52	52	52	52	52	
11	056-022		CAPACITOR, MICA, 6.8pF, 500V, ±.5pF	C4	1	1	1	1	1	1	
12	034-360		24pF	C19	1	1	1	1	1	1	
13	034-759		15pF	C3	1	1	1	1	1	1	
14	056-105		18pF	C75,110	2	2	2	2	2	2	
15	056-679		27pF	C37,140	2	2	2	2	2	2	
16	034-376		33pF	C65,100	2	2	2	2	2	2	
17	056-412		36pF	C55-57,59	4	4	4	4	4	4	
18	056-680		43pF	C54,58,74,109	4	4	4	4	4	4	
19	056-603		47pF, 500V, ±.5pF	C22,31	2	2	2	2	2	2	
20	034-259		56pF, 500V, ±1%	C71,73,106,108	4	4	4	4	4	4	
21	034-918		68pF	C69,104	2	2	2	2	2	2	
22	056-164		22pF	C139	1	1	1	1	1	1	
23	034-252		82pF	C93	1	1	1	1	1	1	
24	034-367		91pF	C5,83	2	2	2	2	2	2	
25	034-222		100pF	C72,78,95,107, 117	5	5	5	5	5	5	
26	034-260		110pF	C6,70,105	3	3	3	3	3	3	
27	034-297		180pF	C18,46,48,66,102	5	5	5	5	5	5	
28	034-225		220pF	C27,36	2	2	2	2	2	2	
29	034-543		240pF	C7,67,68,101,103	5	5	5	5	5	5	
30	034-253		330pF	C92	1	1	1	1	1	1	
31	034-241		360pF	C79	1	1	1	1	1	1	
32	056-291		470pF	C118	1	1	1	1	1	1	
33	056-297		4700pF, 500V, ±1%	C12	1	1	1	1	1	1	
34	034-219		CAPACITOR, MICA, 120pF, 100V, ±1%	C23	1	1	1	1	1	1	
35	064-314		CAPACITOR, CER., MONO, 1uF	C8	1	1	1	1	1	1	

LM-1420075

AMPEX		AmpeX Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1420075	T							
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
				-03	-04	-05	-06	107	-08					
36	034-251	CAPACITOR, MICA, .39uF, 500V, ±.5pF	C85		1	1	1	1	1	1				
37														
38	055-166	CAPACITOR, MYLAR, .001uF, 50V, 5%	C126		1	1	1	1	1	1				
39	035-729	.0015uF	C13		1	1	1	1	1	1				
40	055-604	.0018uF	C125		1	1	1	1	1	1				
41	055-133	.0022uF	C15,16,21		3	3	3	3	3	3				
42	035-814	.033uF	C49		1	1	1	1	1	1				
43	055-131	.039uF	C47		1	1	1	1	1	1				
44	035-598	.047uF	C11		1	1	1	1	1	1				
45	035-596	CAPACITOR, MYLAR, .082uF, 50V, 5%	C26,28,97		3	3	3	3	3	3				
46														
47														
48	037-790	CAPACITOR, TANT., 2.2uF, 20V, ±20%	C64,99		2	2	2	2	2	2				
49	037-892	47uF, 20V, ±20%	C1,121,127,128		4	4	4	4	4	4				
50	037-965	120uF, 10V, ±20%	C29,87		2	2	2	2	2	2				
51	037-812	CAPACITOR, TANT., 10uF, 25V, ±20%	C76		1	1	1	1	1	1				
52	051-770	CHOKE, FERRITE	FL1-4		4	4	4	4	4	4				
53	017-228	CRYSTAL, 27.000 MHZ	Y1		1	1	1	1	1	1				
54	017-161	CRYSTAL, 14.31818 MHZ	Y2		1	1	1	1	1	1				
55	013-723	DIODE, FD777	CR8-11		4	4	4	4	4	4				
56	013-599	DIODE, 1N4531	CR1-7,12-23,27		20	20	20	20	20	20				
57	581-784	LED, RED	DS1-4		4	4	4	4	4	4				
58	013-166	DIODE, ZENER, 3.3V, 1N746A	VR3		1	1	1	1	1	1				
59	013-983	DIODE, ZENER, 5.6V, 1N752A	VR2,5		2	2	2	2	2	2				
60	581-555	VARICAP, MV3103	CR24-26		3	3	3	3	3	3				
61														
62	932-035	FERRITE BEAD	U34-1,4,U41-1,4 BASE OF Q8,9,10,11,615		9	9	9	9	9	9				
63	051-871	INDUCTOR, FIXED, 12uH, ±5%	L4		1	1	1	1	1	1				
64	051-872	22uH, ±5%	L2		1	1	1	1	1	1				
65	068-008	68uH, ±10%	L3		1	1	1	1	1	1				
66	068-059	36uH, ±5%	L8,10		2	2	2	2	2	2				
67	068-125	6.8uH, ±10%	L19		1	1	1	1	1	1				
68	051-897	INDUCTOR, FIXED, 2.2uH, ±10%	L7		-	-	-	-	-	-				
69	068-087	INDUCTOR, FIXED, 1.2uH, ±10%	L7		-	1	1	1	1	1				
70	1374388-AA	INDUCTOR, VAR., 1.2uH	L6		1	1	1	1	1	1				
71	1374388-AD	2.2uH	L18		1	1	1	1	1	1				
72	1374388-AS	22uH	L11,12		2	2	2	2	2	2				
73	1374388-AU	33uH	L9		1	1	1	1	1	1				
74	1374388-AW	47uH	L14,21		2	2	2	2	2	2				
75	1374388-BB	122uH	L17,24		2	2	2	2	2	2				
76	1374388-BC	INDUCTOR, VAR., 150uH	L15,16,22,23		4	4	4	4	4	4				
77	051-966	INDUCTOR, FIXED, 1.0uH, ±10%	L7		-	1	1	1	1	1				
78	068-114	INDUCTOR, FIXED, 1.5uH, ±10%	L7		-	1	1	1	1	1				
79	068-168	INDUCTOR, FIXED, 1.8uH, ±10%	L7		-	1	1	1	1	1				
80	068-109	INDUCTOR, FIXED, 2.0uH, ±10%	L7		-	1	1	1	1	1				

LM-1420075

AMPEX		AmpeX Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1420075 SHEET 3	T			
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER						
				-08	-04	-05	-06	-07	-08	
81	051-897	INDUCTOR, FIXED, 2.2uH, ±10%	2	L7						
82	051-900	INDUCTOR, FIXED, 2.7uH, ±10%	2	L7						
83	590-721	INTEGRATED CIRCUIT, CA3046		U38						
84	590-610	74121		U18						
85	589-837	74500		U22,37						
86	586-959	MC1496		U34,41						
87	590-543	10116		U29						
88	590-326	10131		U35						
89	589-938	745175		U24						
90	589-846	74574		U15,23,27,42						
91										
92	590-329	74LS123		U5						
93	589-934	74LS221		U7,19,25						
94	590-443	74502		U28						
95	590-450	CD4053	3	U6,40,48						
96	589-931	74LS30		U26						
97	589-827	74LS164		U20,39						
98	589-850	74S163		U9-11						
99	590-602	TL082		U8,12,21,43-47						
100	590-252	10216		U13,33						
101	590-327	NE529		U16,17,32						
102	590-333	74LS163		U1-3,30,31						
103	589-838	INTEGRATED CIRCUIT, 74S04		U4,14,36						
104										
105										
106										
107										
108	041-793	RESISTOR, CARB., COMP., 10 M OHMS, 1/4W, ±5%	R27,149							
109										
110	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, 5%	R45,48,66,83,93,94,137,140,146,153,161,174,189							
111	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, 5%	R45,48,66,83,93,94,137,140,146,153,161,174							
112	066-666	2.7K	R63,68,110							
113	066-667	3K	R29,50,59,61,115,176							
114	066-668	4.7K	R12,106,152							
115	066-673	1 MEG	R44,130,167							
116	066-675	1.8K	R15,30							
117	066-689	2.2K	R18,51,60,62,85							
118	066-663	220	R42,81,100,150							
119	066-711	7.5K	R69,108,183							
120	066-712	22K	R53,56,57,148,172,178,181							
121	066-715	1.2K	R90,99,134							
122	066-717	47K	R17,24,185							
123	066-718	5.6K	R49,177							
124	066-720	RESISTOR, C.F., 3.3K OHMS, 1/4W, 5%	R113,121,154							

LM-1420075

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1420075	T											
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER														
				-01	-02	-03	-04	-05	-06	-07	-08							
125	066-812	RESISTOR, C.F., 100 OHMS, 1/4W, 5% R10,11,31,43,84, 88,92,116,126, 131,132,136,141, 171		14	14	14	14	14	14									
126	066-669	RESISTOR, C.F., 8.2K OHMS, 1/4W, 5% R168		1	1													
127	066-813	150 R4,13		2	2	2	2	2	2									
128	066-818	470 R28,101,125,142, 144,147,162		7	7	7	7	7	7									
129	066-819	620 R9		1	1					1	1							
130	066-829	6.8K R138,139,145,184			4	4	4	4	4									
131	066-821	820 R103,166		2	2													
132	066-824	1.5K R8,38,87,109,173, 182		6	6	6	6	6	6									
133	066-826	2K R6,7,32,33,54,55, 159,160		8	8	8	8	8	8									
134	066-827	3.9K R70,80,107,180		4	4	4	4	4	4									
135	066-829	6.8K R138,139,145,165, 184		5														
136	066-830	10K R22,23,39,91,135		5	5	5	5	5	5									
137	066-838	330 R34,41,120,151		4	4	4	4	4	4									
138	066-839	560 R40,65,102,117, 118,119		6	6	6	6	6	6									
139	066-840	680 R104,112		2	2	2	2	2	2									
140	066-841	1.3K R52,86		2	2	2	2	2	2									
141	066-842	5.1K R5,143,188		3	3	3	3	3	3									
142	066-660	22 R82		1	1					1	1							
143	066-846	30K R16,72,74		3	3	3	3	3	3									
144	066-849	100K R47,67,128,173		4	4	4	4	4	4									
145	066-856	15K R36,37,71		3														
146	066-863	3.6K R58,111		2	2	2	2	2	2									
147	066-856	15K R36,37			2	2	2	2	2									
148	066-865	12K R187		1	1					1	1							
149	066-866	27K R35,73		2	2	2	2	2	2									
150	066-873	20K R21		1	1					1	1							
151	066-912	82K R105		1	1					1	1							
152	066-913	220K R175		1	1					1	1							
153	066-928	2.4K R19,20,64		3	3	3	3	3	3									
154	066-940	2.2M R46		1	1	1	1	1	1									
155	066-720	3.3K R113,121,154,168								4	4							
156	076-045	75 R89,133		2	2	2	2	2	2									
157	066-974	150K R14,163		2	2	2	2	2	2									
158	066-847	RESISTOR, C.F., 33K OHMS, 1/4W, 5% R186		1	1	1	1	1	1									
159	062-998	RESISTOR, M.F., 18.7K OHMS, 1/4W, ±1% R71																
160	062-624	RESISTOR, M.F., 1K OHMS, 1/4W, 1% R170		1	1	1	1	1	1									
161	062-831	68.1 R98,123,124,157, 158		5	5	5	5	5	5									
162	062-840	82.5 R127		1	1	1	1	1	1									
163	062-843	88.7 R76		1	1	1	1	1	1									
164	062-902	499 R77,79		2	2	2	2	2	2									
165	066-103	232 OHMS, 1/4W, 1% R122		1	1	1	1	1	1									
166	062-884	RESISTOR, M.F., 301 OHMS, 1/4W, ±1% R155		1	1	1	1	1	1									
167	044-941	RESISTOR, VAR., 100 OHMS, 1/4W, 20% R156		1	1	1	1	1	1									
169	044-943	RESISTOR, VAR., 2K OHMS, 1/4W, 20% R78		1	1	1	1	1	1									

LM-1420075

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1420075	SHEET 5		REV T												
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																	
				-03	-04	-05	-06	-07	-08												
170	062-694	RESISTOR, M.F., 15K OHMS, 1/4W, ±1%	R71						1	1											
171	066-821	RESISTOR, C.F., 820 OHMS, 1/4W, ±5%	R103							1	1										
172	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, ±5%	R45,46,66,83,93,94,137,140,146,153,161,174,189,190																	14	
173	066-717	RESISTOR, C.F., 47K OHMS, 1/4W, ±5%	R17,24,185,191																	4	
174																					
175	039-179	RESISTOR, NETWORK, 220 OHMS, SIP	U55	1	1	1	1	1	1	1											
176	039-312	2.2K	U49-51,52-54	6	6	6	6	6	6	6											
177	039-379	2.2K	U56	1	1	1	1	1	1	1											
178	039-380	RESISTOR, NETWORK, 10K OHMS, SIP	U57	1	1	1	1	1	1	1											
179	058-335	RESISTOR, VAR., 50K OHMS, .5W, ±20%	R192																	1	
180																					
181	560-471	TRANSFORMER, RF T1-1T	T4,6,8	3	3	3	3	3	3	3											
182	1403221-01	TRANSFORMER	T1,5	2	2	2	2	2	2	2											
183	1420246-01	TRANSFORMER, VAR., 406μH	T3,7	2	2	2	2	2	2	2											
184																					
185																					
186																					
187	014-780	TRANSISTOR, NPN, MPS6514-5	Q1-4,6-10,13,15-18,20-22,24-27	2	2	2	2	2	2	2											
188	014-781	TRANSISTOR, PNP, MPS6518-5	Q5,11,14	3	3	3	3	3	3	3											
189																					
190	435-122	COMPONENT CLIP, CRADLE	Y1,2	2	2	2	2	2	2	2											
191	460-011	TUBULAR RIVET	Y1,2	4	4	4	4	4	4	4											
192	173-024	TERMINAL TURRET	REF: GND	5	5	5	5	5	5	5											
193	602-044	SHORTING PLUG, 2 PINS, RED	J1-6	6	6	6	6	6	6	6											
194	143-981	CONN, SIGNAL CIRCUIT, JACK, PC TIP	J6-A,B,C REF: J1-4(2), J5-A,B,C	14	14	14	14	14	14	14											
195	187-354	TERMINAL, PUSH-IN	TP1-8	8	8	8	8	8	8	8											
196	506-011	WASHER, BOWED		1	1	1	1	1	1	1											
197	283-105	SPACER, UNTHREADED, PLAIN, .140 ID. X .125 LG		1	1	1	1	1	1	1											
198	473-324	SCREW, PAN HD., XREC, 4-40 X .250 LG		5	5	5	5	5	5	5											
199	473-326	SCREW, PAN HD., XREC, 4-40 X .375 LG		1	1	1	1	1	1	1											
200	501-008	WASHER, PLAIN, #4		1	1	1	1	1	1	1											
201	501-169	WASHER, PLAIN, SM PATTERN, .125 ID, #4		5	5	5	5	5	5	5											
202	616-569	CABLE, COAXIAL, SINGLE CKT, 2 NOM=75 OHM		A/R	A/R	A/R	A/R	A/R	A/R	A/R											
203																					
204	582-329	I.C., MTG HDW, SOCKET, 8 PINS	REF: U8,12,21,43,44,45,46,47	8	8	8	8	8	8	8											
205	582-331	16 PINS	REF: U1,2,3,5,6,7,9,10,11,13,19,24,25,29,30,31,33,35,40,48	20	20	20	20	20	20	20											
206	582-330	I.C., MTG HDW, SOCKET, 14 PINS	REF: U4,14,15,18,20,22,23,26,27,28,36,37,38,39,42	15	15	15	15	15	15	15											
207																					
208	615-004	WIRE, SOLID, UNINSULATED, 24 AWG		A/R	A/R	A/R	A/R	A/R	A/R	A/R											

LM-1420075

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER				

NOTES:

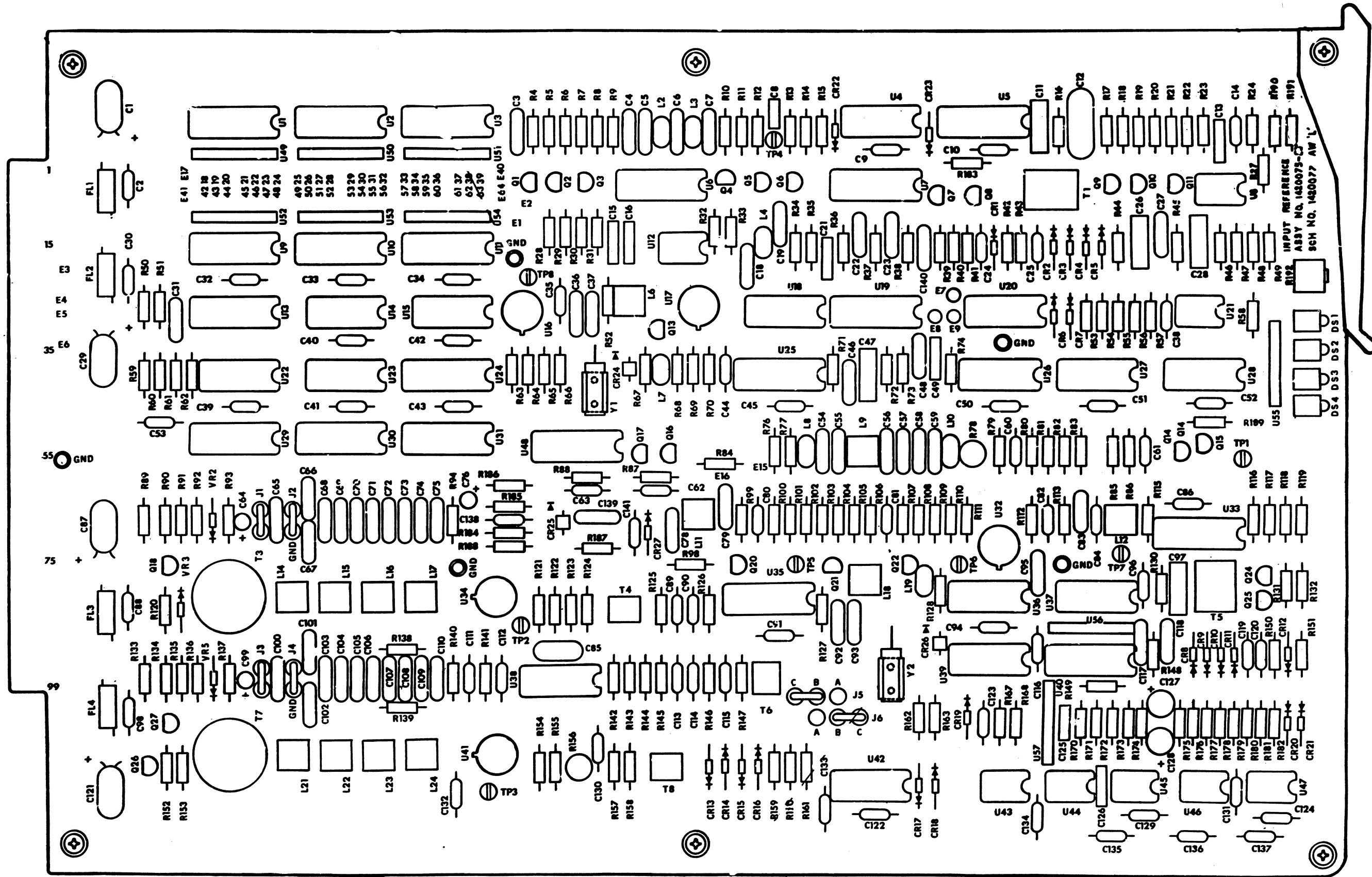
- 1
- 2
- 3

USE THIS ITEM AT ASSEMBLY.

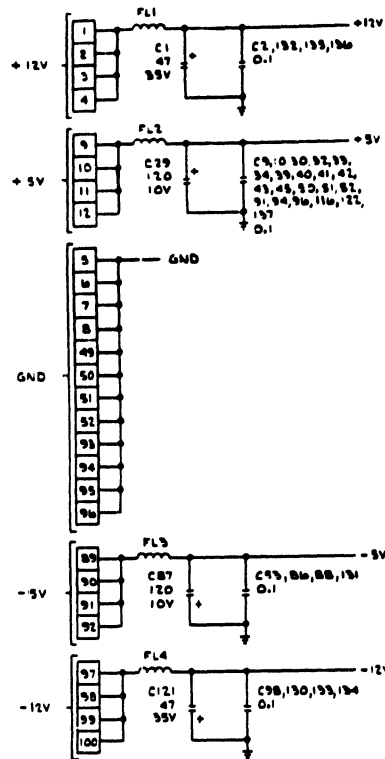
IF ITEM 69 DOES NOT MEET TEST PROCEDURE REQUIREMENT. SELECT ONE OF ITEMS 77,78,79,80, 81 AND 82. SO THAT PWA MEETS TEST PROCEDURE REQUIREMENT.

STATIC SENSITIVE, SPECIAL HANDLING REQUIRED PER AMPEX STD. HE1-1.

LM-1420075



Assembly No. 1420075-08T.
 Input Reference PWA, A3, NTSC

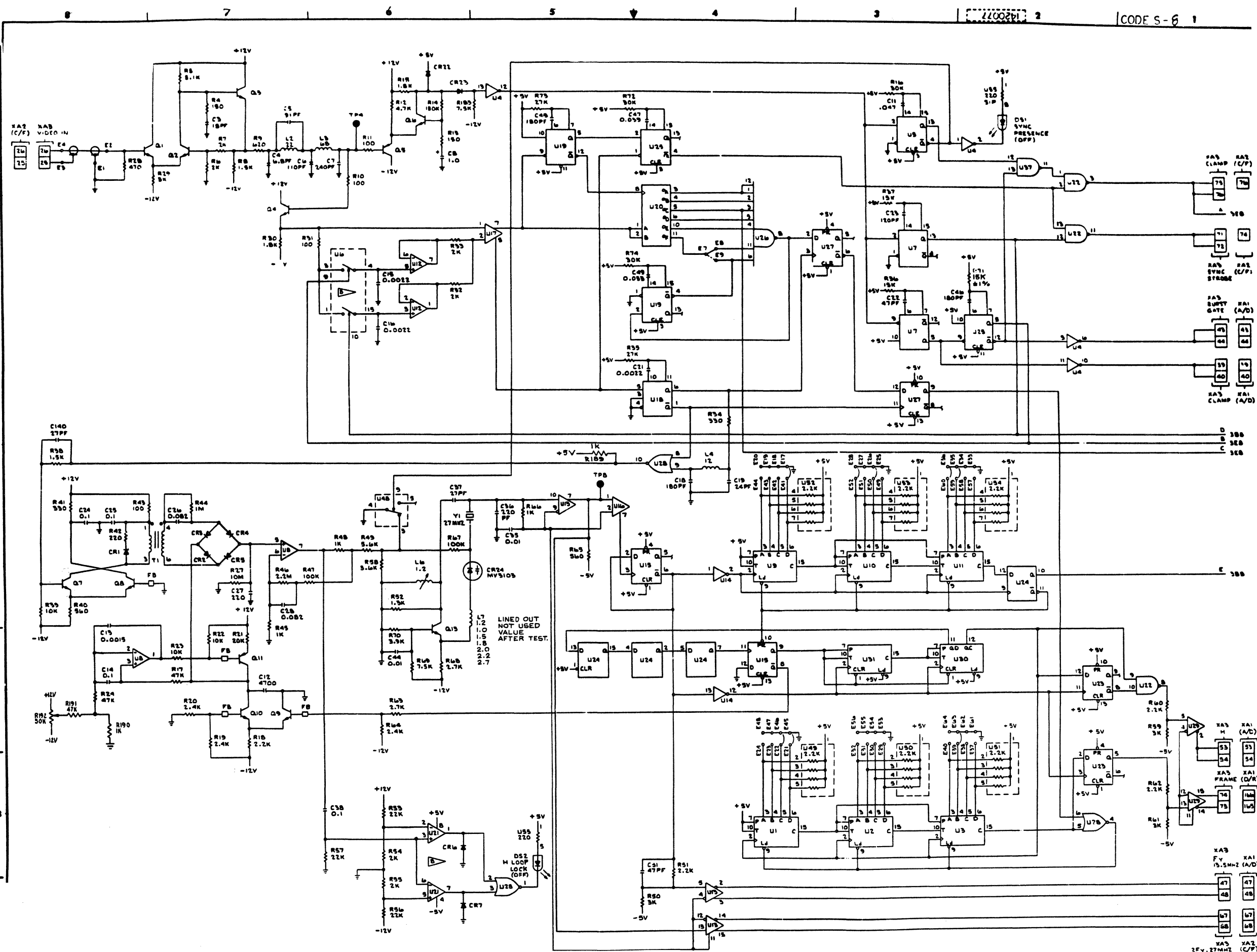


- NOTES: UNLESS OTHERWISE SPECIFIED.
1. RESISTANCE VALUES ARE IN OHMS 1/4W, 5%.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 3. DIODES ARE CD45B.
 4. NPN TRANSISTORS ARE MPS6514-S.
 5. PNP TRANSISTORS ARE MPS651B-S.
 6. I.C. VOLTAGES PER TABLE.
 7. INDUCTANCE VALUES ARE IN MICRONEHERIES.
 8. STATIC SENSITIVE SPECIAL HANDLING REQUIRED PER WEI-1.

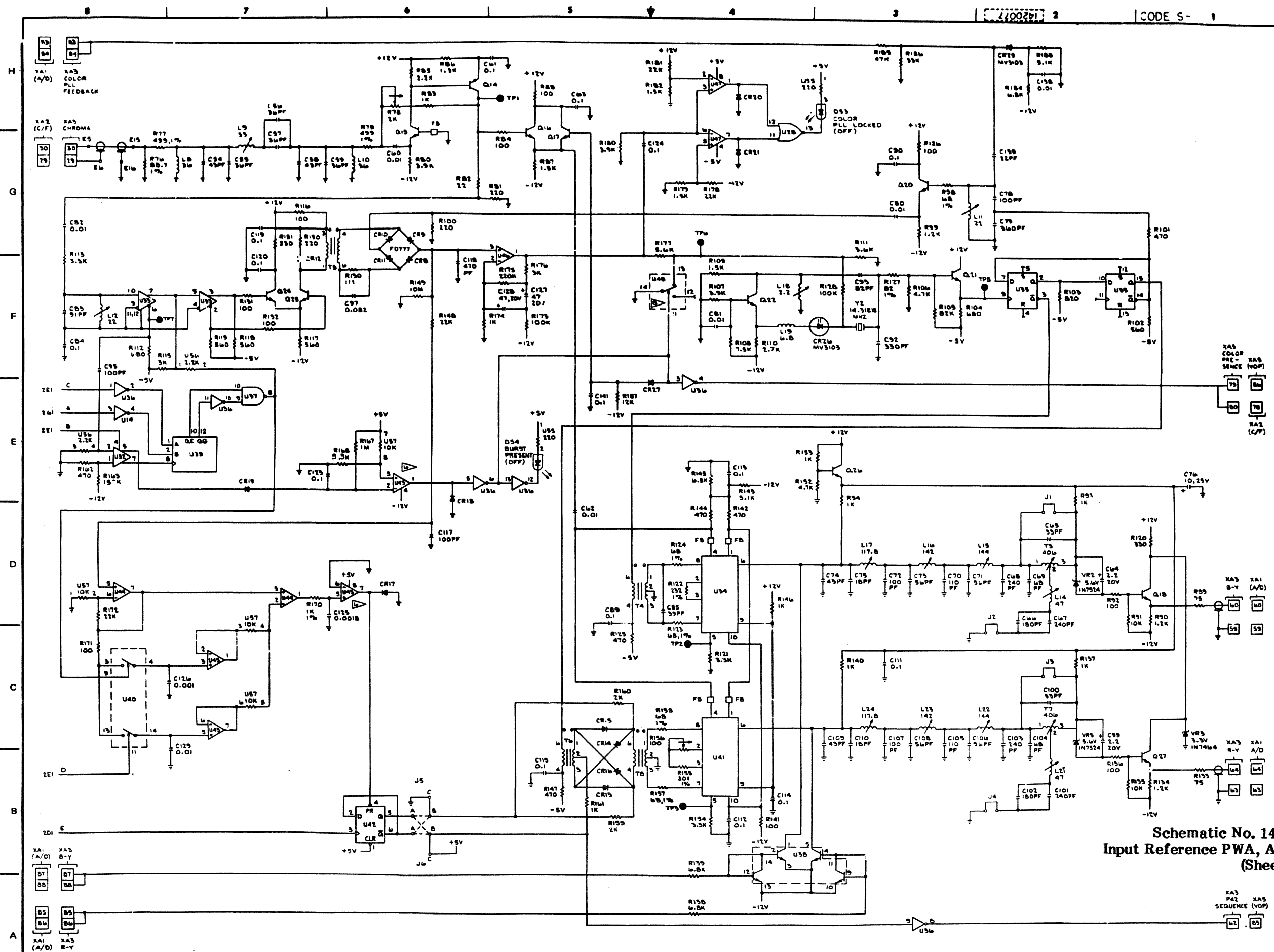
REFERENCE DESIGNATIONS	
LAST USED	NOT USED
C141	C17,20,77,
CR27	
E64	E10-14
FL4	
J6	L1,3,13,20,
L24	Q12,19,23,
Q17	R1-3,25-26,
R192	95-97,114,123,
	164,165,166,
	169
D54	
T8	T2
U57	
VR5	VR1,4
Y2	
TP8	

I.C. LIST									
REF DESIG	U1-3,30,31	U4,14,36	U5	U6,40,48	U7,19,25	U8,12,43-46	U9-11	U13,35	U57
AMPEX P/N	590-333	589-838	590-329	590-450	589-934	590-602	589-850	590-252	039-380
VENDOR P/N	74LS163	74504	74LS123	CD4053	74LS221	TL082	745163	10216	10KA SIP RES.
VOLTAGE (PIN)	+5V (16)	+5V (14)	+5V (16)	+5V(16);-5V(7)	+5V (16)	+12V(8);-12V(4)	+5V (16)	-5V (8)	
GROUND (PIN)	(8)	(7)	(8)	(6,8)	(8)		(8)	(1,16)	
REF DESIG	U15,23,27,42	U16,17,32	U18	U20,39	U22,37	U21,47	U24	U26	
AMPEX P/N	589-846	590-327	590-610	589-827	589-837	590-602	589-938	589-931	
VENDOR P/N	74574	HE529	74121	74LS164	74500	TL082	745175	74LS90	
VOLTAGE (PIN)	+5V (14)	-5V(9,10);-12V(3)	+5V(14)	+5V (14)	+5V (14)	+5(8)-5(4)	+5V (16)	+5V (14)	
GROUND (PIN)	(7)	(6)	(7)	(7)	(7)		(8)	(7)	
REF DESIG	U28	U29	U34,41	U35	U38	U49-51,52-54	U55	U56	
AMPEX P/N	590-443	590-543	586-959	590-326	590-721	039-312	039-179	039-379	
VENDOR P/N	74502	10116	MC1496	10131	CA3046	2.2KA, SIP RES.	220A, SIP RES	2.2KA, SIP RES	
VOLTAGE (PIN)	+5V (14)	-5V(8)		-5V(8)		+5V(1)	+5V(1)		
GROUND (PIN)	7	(1,16)		(1,16)					

Schematic No. 1420077M. Input Reference PWA, A3, NTSC (Sheet 1 of 3)



Schematic No. 1420077M.
 Input Reference PWA, A3, NTSC
 (Sheet 2 of 3)



Schematic No. 1420077M.
 Input Reference PWA, A3, NTSC
 (Sheet 3 of 3)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04	-05	-06	-07	-08		
1													
2													
3	1464228	SCHEMATIC		(-)	B	C	E	F	G	J	K		
4													
5	1374388-AA	VARIABLE INDUCTOR, STD, 1.2uH	L2	1	1	1	1	1	1	1	1	1	1
6	1374388-AC		1.8uH	L14	1	1	1	1	1	1	1	1	1
7	1374388-AL		8.2uH	L8	1	1	1	1	1	1	1	1	1
8	1374388-AP		15uH	L13	1	1	1	1	1	1	1	1	1
9	1374388-AR		18uH	L18	1	1	1	1	1	1	1	1	1
10	1374388-AT		27uH	L7	1	1	1	1	1	1	1	1	1
11	1374388-AW		47uH	L3,9	2	2	2	2	2	2	2	2	2
12	1374388-BB		122uH	L5,10	2	2	2	2	2	2	2	2	2
13	1374388-BC	VARIABLE INDUCTOR, STD, 150uH	L4,6,11,12	4	4	4	4	4	4	4	4	4	4
14													
15	1400004-01	EJECTOR, PWB		1	1	1	1	1	1	1	1	1	1
16	1403221-01	TRANSFORMER	T1,4	2	2	2	2	2	2	2	2	2	2
17	1420246-01	TRANSFORMER, VAR, 406uH	T2,3	2	2	2	2	2	2	2	2	2	2
18	1420404-01	SHIELD, ANALOG		1	1	1	1	1	1	1	1	1	1
19	1462928-AR	LABEL		1	1	1	1	1	1	1	1	1	1
20													
21	064-307	CAPACITOR, CER, MONO, .22uF, 100V, ±20%	C11	1	1	1	1	1	1	1	1	1	1
22	064-652	CAPACITOR, CER, TUB, .01uF, 50V, ±20%	C13,46,50,56,80,90,93,97, 106,133,135,148,149,159,160	15	15	15	15	15	15	15	15	15	15
23	064-653	CAPACITOR, CER, TUB, .1uF, 50V, ±20%	C35,6,7,8,12, 17,19,20,23,25, 29,30,32-35,37-39,41-45,49,51-55,57,59,61, 62,76,78,81,86,87,88,91,92,94,95,98, 99-104,107,108,113,124,125,126,128, 129,130,132,136,139,146,147,150-158	73	74	75	-	-	-	-	-	-	-
24	034-215	CAPACITOR, MICA, 10pF, 500V, ±.5%	C31	1	1	1	1	1	1	1	1	1	1
25	034-222	100pF, ±1%	C4,14,15,70, 118,141	6	6	6	-	-	-	-	-	-	-
26	034-224	160pF, ±1%	C96	1	1	1	1	1	1	1	1	1	1
27	034-225	220pF, ±1%	C36,48,105	3	3	3	3	3	3	3	3	3	3
28	034-252	82pF, ±1%	C142	1	1	1	1	1	1	1	1	1	1
29	034-259	56pF, ±1%	C71,73,119,123	4	4	4	4	4	4	4	4	4	4
30	034-260	110pF, ±1%	C72,122	2	2	2	2	2	2	2	2	2	2
31	034-222	100pF, ±1%	C4,14,15,70, 98,118,141				7	7	7	7	7	7	7
32	034-287	300pF, ±1%	C140	1	1	1	1	1	1	1	1	1	1
33	034-297	180pF, ±1%	C16,67,115	3	3	3	3	3	3	3	3	3	3
34	034-367	CAPACITOR, MICA, 91pF, 500V, ±1%	C21,22	2	2	2	2	2	2	2	-	-	-

LM-1464226

AMPEX | Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS		LM-1464226 SHEET 2 OF 7	REV M							
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-01	-02	-03	-04	-05	-06	-07	-08		
35	034-376	CAPACITOR, MICA, 33pF, 500V, ±.5%	C63,112	2	2	2	2	2	2	2	2	2	
36	034-532	1pF, ±.5%	C77,84,134	3	3	3	3	3	3	3	3	3	
37	034-541	62pF, ±1%	C79,85	2	2	2	2	2	2	2	2	2	
38	034-543	240pF, ±1%	C65,68,114,116	4	4	4	4	4	4	4	4	4	
39	034-918	68pF, ±1%	C28,66,117,137	4	4	4	4	4	4	4	4	4	
40	034-919	270pF, ±1%	C138	1	1	1	1	1	1	1	1	1	
41	056-105	18pF, ±.5%	C75,121,161	3	3	3	-	-	-	-	-	-	
42	056-164	22pF, ±1%	C143	1	1	1	1	-	-	-	-	-	
43	056-291	470pF, ±1%	C127	1	1	1	1	1	1	1	1	1	
44	056-297	4700pF, ±1%	C58	1	1	1	1	1	1	1	1	1	
45	056-580	12pF, ±.5%	C83	1	1	1	1	1	1	1	1	1	
46	056-603	47pF, ±.5%	C82	1	1	1	1	1	1	1	1	1	
47	056-679	27pF, ±.5%	C40,47	2	2	2	-	-	-	-	-	-	
48	056-680	43pF, ±.5%	C74,120	2	2	2	2	2	2	2	2	2	
49	056-679	CAPACITOR, MICA, 27pF, 500V ±.5pF	C40,47,89	3	3	3	3	3	3	3	3	3	
50	056-105	CAPACITOR, MICA, 18pF, 500V, ±.5pF	C75,121				-	2	2	2	2	2	
51	056-164	CAPACITOR, MICA, 22pF, 500V, ±.5pF	C143,162					-	2	2	2	2	
52	034-259	CAPACITOR, MICA, 56pF, 500V, ±1%	C21							-	1	1	
53	035-598	CAPACITOR, MYLAR, .047uF, 50V, ±5%	C24	1	1	1	1	1	1	1	1	1	
54	035-729	.0015,	C60	1	1	1	1	1	1	1	1	1	
55	035-814	.033uF,	C27	1	1	1	1	1	1	1	1	1	
56	055-131	.039uF,	C26	1	1	1	1	1	1	1	1	1	
57	055-133	.0022uF,	C9,10,18	3	3	3	3	3	-	-	-	-	
58	055-166	CAPACITOR, MYLAR, .001uF, 50V, ±5%	C131,144,145	3	3	3	3	3	3	3	3	3	
59	055-133	CAPACITOR, MYLAR, .0022uF, 50V, ±5%	C9,10,18,163						-	4	4	4	
60													
61	037-790	CAPACITOR, TANT., 2.2uF, 20V, ±20%	C64,111	2	2	2	2	2	2	2	2	2	
62	037-812	10uF, 25V, ±20%	C69	1	1	1	1	1	1	1	1	1	
63	037-892	47uF, 20V, ±20%	C2,109	2	2	2	2	2	2	2	2	2	
64	037-965	CAPACITOR, TANT., 120uF, 10V, ±20%	C1,110	2	2	2	2	2	2	2	2	2	
65													
66													
67													
68	051-770	CHOKE, FERRITE	FL1-4	4	4	4	4	4	4	4	4	4	
69													
70	017-271	CRYSTAL UNIT, 27.000MHz	Y1	1	1	1	1	1	1	1	1	1	
71	017-266	CRYSTAL UNIT, 17.734475	Y2	1	1	1	1	1	1	1	-	-	
72													
73	013-599	DIODE, IN4531	CR5,8-11,16,17,19-21,24,25	12	12	12	12	12	12	12	12	12	
74	013-723	DIODE, FD777	CR1,2,3,4,12,13,14,15	8	8	8	8	8	8	8	8	8	
75	581-555	DIODE, VARICAP, MV3103	CR7,22,23	3	3	3	3	3	3	3	3	3	
76													
77	013-166	DIODE, ZENER, 3.3V, IN746A	VR1,4	2	2	2	2	2	2	2	2	2	
78	013-983	DIODE, ZENER, 5.6V, IN752A	VR2,3	2	2	2	2	2	2	2	2	2	
79	068-168	INDUCTOR, FIXED, 1.8uH, ±5%	L19	1	1	1	1	1	1	1	1	1	

LM-1464226

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1464226	REV M					
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER								
				-01	-02	+03	-04	-05	+06	-07	-08	
80	068-170	INDUCTOR, FIXED, 30uH, ±5%	L16,17	2	2	2	2	2	2	2	2	2
81	068-128	INDUCTOR, FIXED, 4.7uH, ±5%	L15	1	1	1	1	1	1	1	1	1
82	540-006	INDUCTOR, FIXED, 100uH, ±5%	L1	1	1	1	1	1	1	-	-	-
83	000-146	INTEGRATED CIRCUIT, NE529K	U5,34,38	3	3	3	3	3	3	3	3	3
84	586-959	MC1496	U37,44	2	2	2	2	2	2	2	2	2
85	589-806	MC10117	U41	1	1	1	1	1	1	1	1	1
86	589-813	74LS00	U8,48	2	2	2	2	2	2	2	2	2
87	589-814	74LS04	U1,36	2	2	2	2	2	2	2	2	2
88	589-817	74LS164	U3	1	1	1	1	1	1	1	1	1
89	589-837	74S00	U25	1	1	1	1	1	1	1	1	1
90	589-846	74S74	U12,16,28,47	4	4	4	4	4	4	4	4	4
91	589-850	74S163	U14	1	1	1	1	1	1	1	1	1
92	589-931	74LS30	U4	1	1	1	1	1	1	1	1	1
93	589-934	74LS221	U2,10,11,13	4	4	4	4	4	4	4	4	4
94	589-938	74S175	U21	1	1	1	1	1	1	1	1	1
95	590-252	MC10216	U29	1	1	1	1	1	1	1	1	1
96	590-326	10131	U42	1	1	1	1	1	1	1	1	1
97	590-329	74LS123	U9	1	1	1	1	1	1	1	1	1
98	590-333	74LS163	U18-20,22,23,26,27	7	7	7	7	7	7	7	7	7
99	590-443	74S02	U17,39	2	2	2	2	2	2	2	2	2
100	590-450	CD4053	U7,52	2	2	2	2	2	2	2	2	2
101	590-464	MC10125	U30	1	1	1	1	1	1	1	1	1
102	590-543	MC10116	U43	1	1	1	1	1	1	1	1	1
103	590-564	MC10124	U24	1	1	1	1	1	1	1	1	1
104	590-602	TL082	U6,31-33,35,45,49,50,51	9	9	9	9	9	9	9	9	9
105	590-616	74221	U46	1	1	1	1	1	1	1	1	1
106	590-721	INTEGRATED CIRCUIT, CA3046	U15,40	2	2	2	2	2	2	2	2	2
107												
108												
109												
110	581-784	L.E.D., RED	DS1-4	4	4	4	4	4	4	4	4	4
111												
112	041-793	RESISTOR, C.C., 10M OHMS, 1/4W, 5%	R46	1	1	1	1	1	1	1	1	1
113												
114	066-652	RESISTOR, C.F., 470K OHMS, 1/4W, 5%	R125,196,215	3	3	3	3	3	3	3	3	3
115	066-663	220	R56	1	1	1	-	-	-	-	-	-
116	066-664	510	R42	1	1	1	1	1	1	1	1	1
117	066-665	1K	R18,26,29,36,38,78,79,95,101,119,122,131,132,134,147,149,150,153,169,170,171,189,190,216,218	25	25	25	25	25	25	25	25	25
118	066-666	2.7K	R54,200,212	3	3	3	3	3	3	3	3	3
119	066-667	3K	R181	1	1	1	1	1	1	1	1	1
120	066-668	4.7K	R11,40,118,148,156,160,179	7	7	7	7	7	7	7	7	7
121	066-673	1 MEG	R43,48,128,177	4	4	-	-	-	-	-	-	-
122	066-675	RESISTOR, C.F., 1.8K OHMS, 1/4W, 5%	R8,172	2	2	2	2	2	2	2	2	2


LM-1464226

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1464226	REV M					
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER								
				-01	-02	-03	-04	-05	-06	-07	-08	
123	066-689	RESISTOR, C.F., 2.2K OHMS, 1/4W, 5%	R22,24,28,66, 105,112,173	7	7	7	7	7	7	7	7	
124	066-711	7.5K	R192,213	2	2	2	2	2	2	2	2	
125	066-712	22K	R1947,50,52,60,108, 123,202,205,208	10	10	10	10	10	10	10	10	
126	066-715	1.2K	R74,113,133, 145	4	4	4	4	4	4	4	4	
127	066-717	47K	R57,69,198, 217,219	5	5	5	5	5	5	5	5	
128	066-718	5.6K	R15,201	2	2	2	2	2	2	2	2	
129	066-720	3.3K	R17,88,94,129, 152	5	5	5	5	5	5	5	5	
130	066-812	100	R7,9,10,12, 16,53,77,84, 97,98,111,116,117, 124,136,146	16	16	16	-	-	-	-	-	
131	066-816	390	R58	1	1	1	1	1	1	1	1	
132	066-818	470	R85,86,141,142, 176,183	6	6	6	6	6	6	6	6	
133	066-821	820	R109	1	1	1	1	1	1	1	1	
134	066-822	910	R93	1	1	1	1	1	1	1	1	
135	066-824	1.5K	R31,59,87,120, 165,166,199	7	7	7	7	7	7	7	7	
136	066-825	1.6K	R158,159	2	2	2	2	2	2	2	2	
137	066-826	2K	R45,27,49,51	5	5	5	5	5	5	5	5	
138	066-827	3.9K	R100,191, 214	3	3	3	3	3	3	3	3	
139	066-829	6.8K	R83,151,154, 204	4	4	4	4	4	4	4	4	
140	066-830	10K	R45,65,68,75,114,130, 143,194,203,206,207,209	12	12	12	12	12	12	12	12	
141	066-838	330	R67,76,115	3	3	3	3	3	3	3	3	
142	066-839	560	R62,70-72	4	4	4	4	4	4	4	4	
143	066-840	680	R89,91,103,110,162, 164,167,168,174, 175,182	11	11	11	11	11	11	11	11	
144	066-841	1.3K	R37,106	2	2	2	2	2	2	2	2	
145	066-842	5.1K	R137,155	2	2	2	2	2	2	2	2	
146	066-846	30K	R20,21,23,157	4	4	4	4	4	4	4	4	
147	066-847	33K	R197	1	1	1	1	1	1	1	1	
148	066-849	100K	R39,44,188, 195	4	4	4	4	4	4	4	4	
149	066-864	13K	R2	1	1	1	1	1	1	-	-	
150												
151	066-859	240	R96	1	1	1	1	1	1	1	1	
152	066-863	3.6K	R193	1	1	1	1	1	1	1	1	
153	066-865	12K	R135	1	1	1	1	1	1	1	1	
154	066-866	27K	R3,25	2	2	2	2	2	2	2	2	
155	066-873	20K	R61	1	1	1	1	1	1	1	1	
156	066-912	82K	R178	1	1	1	1	1	1	1	1	
157	066-928	2.4K	R55,63,64	3	3	3	3	3	3	3	3	
158	066-938	47	R102,104,107,121, 126,138	6	6	6	6	6	6	6	6	
159	076-009	68K	R184,185	2	2	2	2	2	2	2	2	
160	076-045	RESISTOR, C.F., 75 OHMS, 1/4W, 5%	R73,144	2	2	2	2	2	2	2	2	
161	066-810	RESISTOR, C.F., 10 OHMS, 1/4W, 5%	R14	1	1	1	1	1	1	1	1	
162	066-913	RESISTOR, C.F., 220K OHMS, 1/4W, 5%	R13	1	1	1	1	1	1	1	1	
163	066-858	RESISTOR, C.F., 4.7M OHMS, 1/4W, 5%	R41	1	1	1	1	1	1	1	1	
164	042-379	RESISTOR, M.F., 5.90K OHMS, 1/4W, 1%	R32	1	1	1	1	1	1	1	1	
165	062-694	RESISTOR, M.F., 15K OHMS, 1/4W, 1%	R1	1	1	1	1	1	1	1	1	

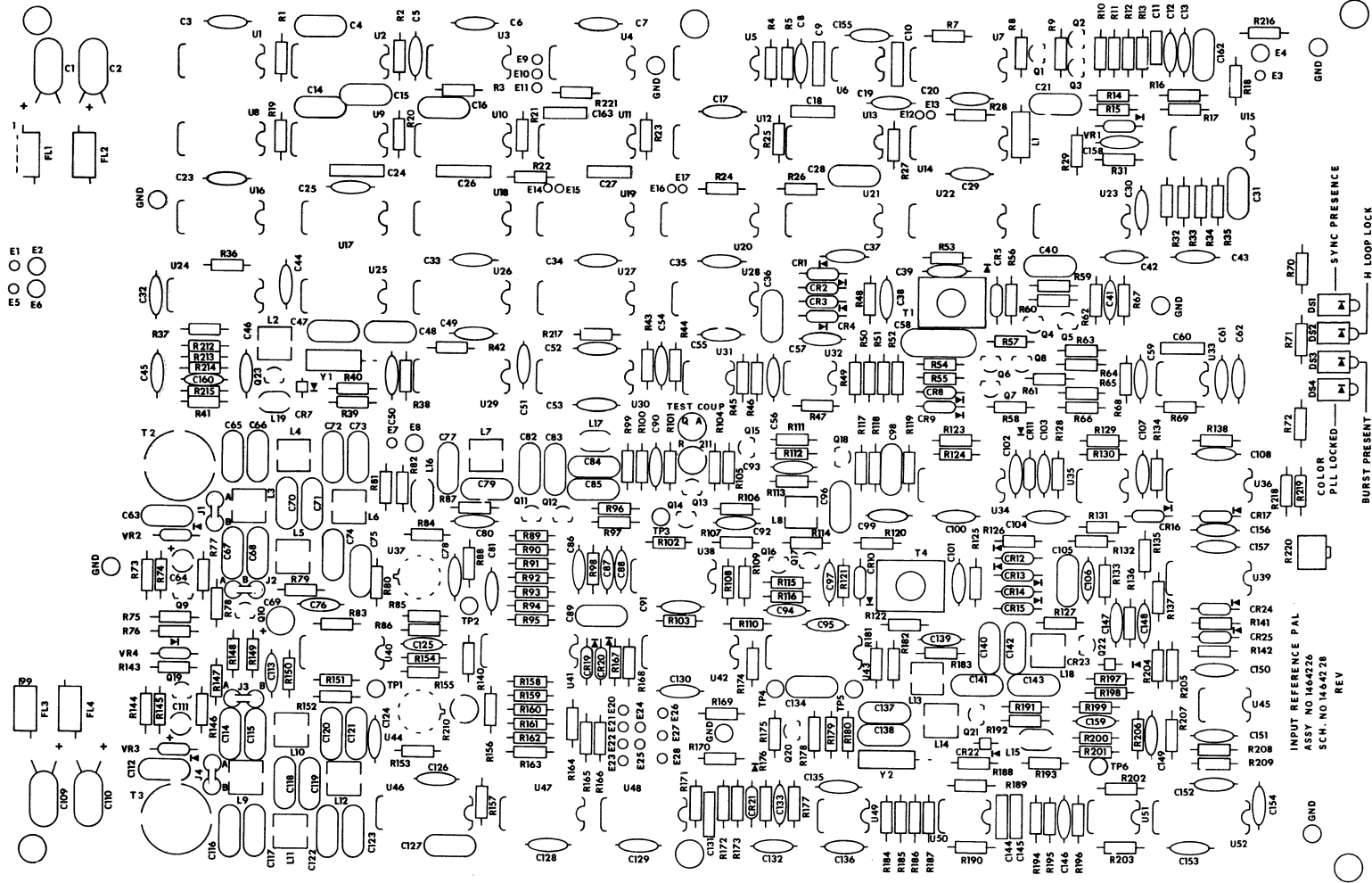
LM-1464226

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1464226	SHEET 5 OF 7		RFV M			
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER								
				-01	-02	-03	-04	-05	-06	-07	-08	
166	062-831	RESISTOR, M.F., 68.1 OHMS, 1/4W, 1%	R90,92,127,161,163	5	5	5	5	5	5	5	5	
167	062-840	82.5	R180	1	1	1	1	1	1	1	1	
168	062-843	88.7	R81	1	1	1	1	1	1	1	1	
169	062-884	301	R140	1	1	1	1	1	1	1	1	
170	062-902	499	R82,99	2	2	2	2	2	2	2	2	
171	062-983	10K	R186,187	2	2	2	2	2	2	2	2	
172	066-078	3.24K	R35	1	1	1	1	1	1	1	1	
173	066-103	232	R80	1	1	1	1	1	1	1	1	
174	066-324	442	R34	1	1	1	1	1	1	1	1	
175	076-157	RESISTOR, M.F., 1.96K OHMS, 1/4W, 1%	R33	1	1	1	1	1	1	1	1	
176	066-673	RESISTOR, C.F., 1 MEG, 1/4W, ±5%	R43,48,128		-	3	3	3	3	3	3	3
177	076-015	RESISTOR, C.F., 3.3 MEG, 1/4W, ±5%	R177		-	1	1	1	1	1	1	1
178	066-181	RESISTOR, M.F., 28.7K OHMS, 1/4W, ±1%	R221					-	1	1	1	1
179	044-941	RESISTOR, VAR, 100 OHMS, .5W, 20%	R210	1	1	1	1	1	1	1	1	1
180	044-943	RESISTOR, VAR, 2K OHMS, .5W, 20%	R211	1	1	1	1	1	1	1	1	1
181	058-335	RESISTOR, VAR, 50K OHMS, .5W, 20%	R220	1	1	1	1	1	1	1	1	1
182	932-035	SHIELDING BEAD, .118 LG	REF: Q5-8,13,18, U37,44	10	0	10	10	10	10	10	10	10
183												
184	602-044	SHORTING PLUG, 2 PINS RED	J2, J3	2	2	2	2	2	2	2	2	2
185												
186	187-354	TERMINAL, PUSH-IN	TP1-6	6	6	6	6	6	6	6	6	6
187	173-024	TERMINAL, TURRET	GND	7	7	7	7	7	7	7	7	7
188												
189	014-780	TRANSISTOR, NPN, MPS6514-5	Q1,2,4-7,9-13,16-23	19	9	19	19	19	19	19	19	19
190	014-781	TRANSISTOR, PNP, MPS6518-5	Q3,8,14,15	4	4	4	4	4	4	4	4	4
191												
192	435-122	CLIP, CRADLE	REF:Y1,2	2	2	2	2	2	2	2	2	2
193	460-011	RIVET, OVAL HD, TUBULAR	REF:Y1,2	4	4	4	4	4	4	4	4	4
194												
195	143-981	CONN, SIGNAL CKT, JACK P.C. TIP	REF: J1-A,B, J2-A,B, J3-A,B, J4-A,B	8	8	8	8	8	8	8	8	8
196												
197	473-324	SCREW, PAN HD, XREC, 4-40 X .250 LG		5	5	5	5	5	5	5	5	5
198	473-326	SCREW, PAN HD, XREC, 4-40 X .375 LG		1	1	1	1	1	1	1	1	1
199												
200	283-105	SPACER, UNTHD, PLAIN, .140 ID X .125 LG		1	1	1	1	1	1	1	1	1
201												
202	506-011	WASHER, BOWED		1	1	1	1	1	1	1	1	1
203	501-008	WASHER, PLAIN, #4		1	1	1	1	1	1	1	1	1
204	501-169	WASHER, PLAIN, SM PATTERN, .125 ID, #4		5	5	5	5	5	5	5	5	5
205												
206	600-232	SLEEVING, TEFLON, 24 AWG		AR	AR	AR	AR	AR	AR	AR	AR	AR
207	615-004	WIRE, SOLID, UNINS, 24 AWG		AR	AR	AR	AR	AR	AR	AR	AR	-
208	616-569	CABLE, COAXIAL, 75 OHMS		AR	AR	AR	AR	AR	AR	AR	AR	AR
209												
210												

LM-1464226

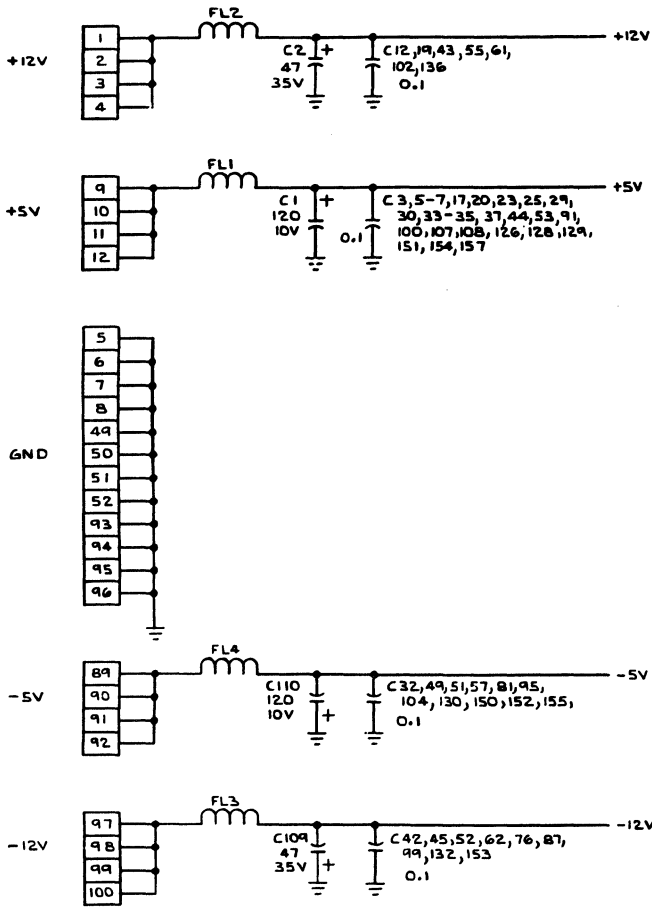
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-04	-05	-06	-07	-08							
211	066-663	RESISTOR, C.F., 220 OHMS, 1/4W, ±5% R56,124		2	2	2	2	2							
212	066-812	RESISTOR, C.F., 100 OHMS, 1/4W, ±5% R7,9,10,12,16, 53,77,84,97,98, 111,116,117,136, 146		15	15	15	15	15							
213	064-653	CAPACITOR, CER., TUB, .1uF, 50V, ±20% C3,5-8,12,17,19, 20,23,25,29,30, 32-35,37-39,41-45,49,51-55,57, 59,61,62,76,78,81,86-88,91,92, 94,95,99-104,107,108,113,124- 126,128-130,132,136,139,146, 147,150-158		74	74	74	74	74							
214	540-011	INDUCTOR, FIXED, 22uH, ±5% L1						1	1						
215	062-989	RESISTOR, M.F., 14K OHMS, 1/4W, ±1% R2						1	1						
216	017-270	CRYSTAL UNIT 17.734475MHz, ±.001% Y2						1	1						
		NOTES:													
		 J1, J4 SHORTING PLUGS USED AT TEST ONLY. NOT REQUIRED AT ASSEMBLY.													

LM-1464226



Assembly No. 1464226-08M. Input Reference PWA, A3, PAL

INPUT REFERENCE PAL
 ASSY NO 1464226
 SCH. NO 1464228
 REV



NOTES: UNLESS OTHERWISE SPECIFIED.

1. RESISTANCE VALUES ARE IN OHMS
1/4 W 5%.
2. CAPACITANCE VALUES ARE IN MICROFARADS.
3. DIODES ARE CD45B.
4. NPN TRANSISTORS ARE MPS6514-5.
5. PNP TRANSISTORS ARE MPS6518-5.
6. INDUCTANCE VALUES ARE IN MICROHENRIES.

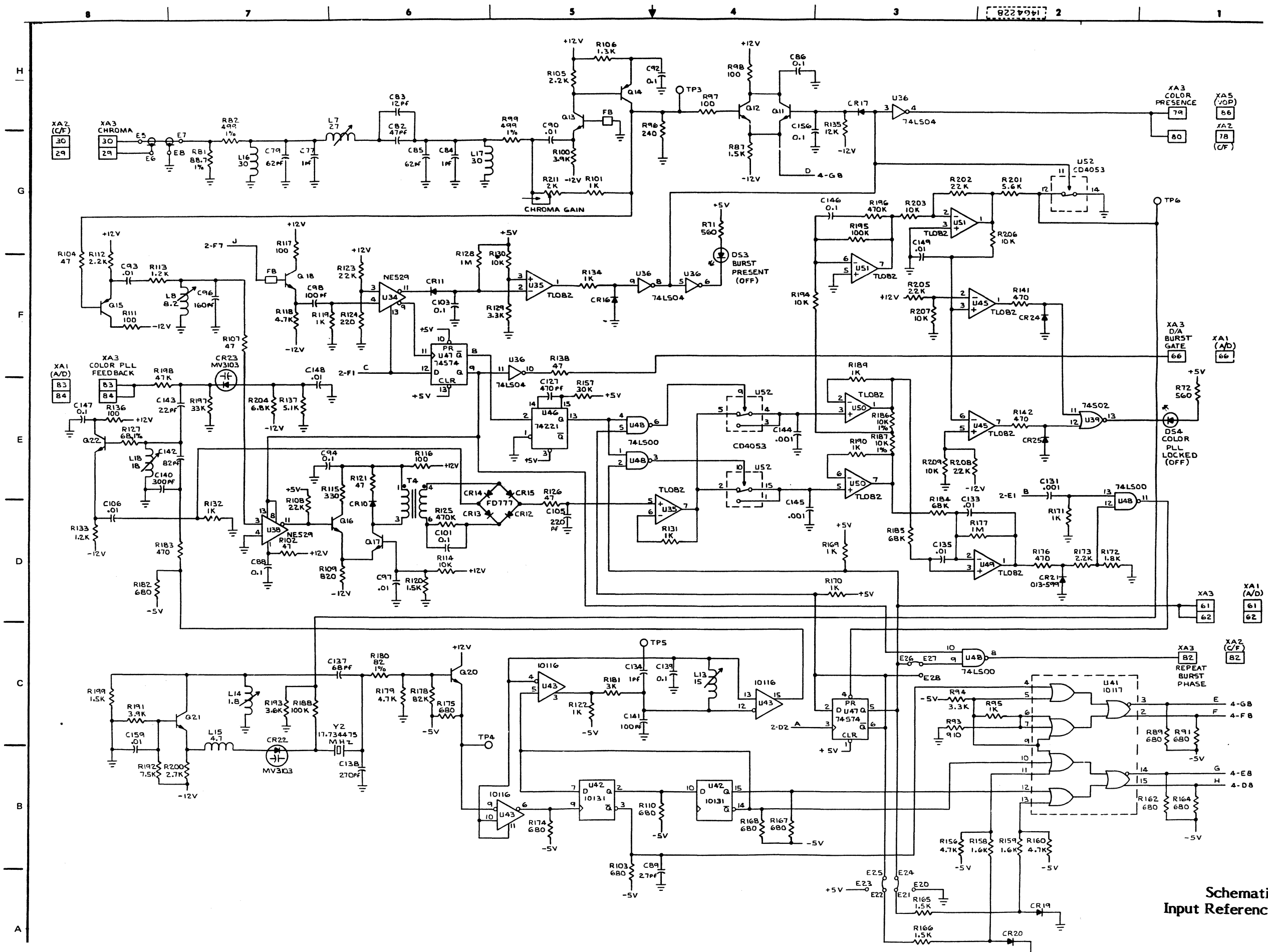
▶ STATIC SENSITIVE DEVICE,
SPECIAL HANDLING REQUIRED
PER AMPEX STANDARD HE1-1.

REFERENCE DESIGNATIONS	
LAST USED	NOT USED
C163	C22, 161
CR25	CR6, 18
DS4	
E2B	
J4	
L19	
Q23	
R221	R6, 30, 139
T4	
TP6	
U52	
VR4	
Y2	

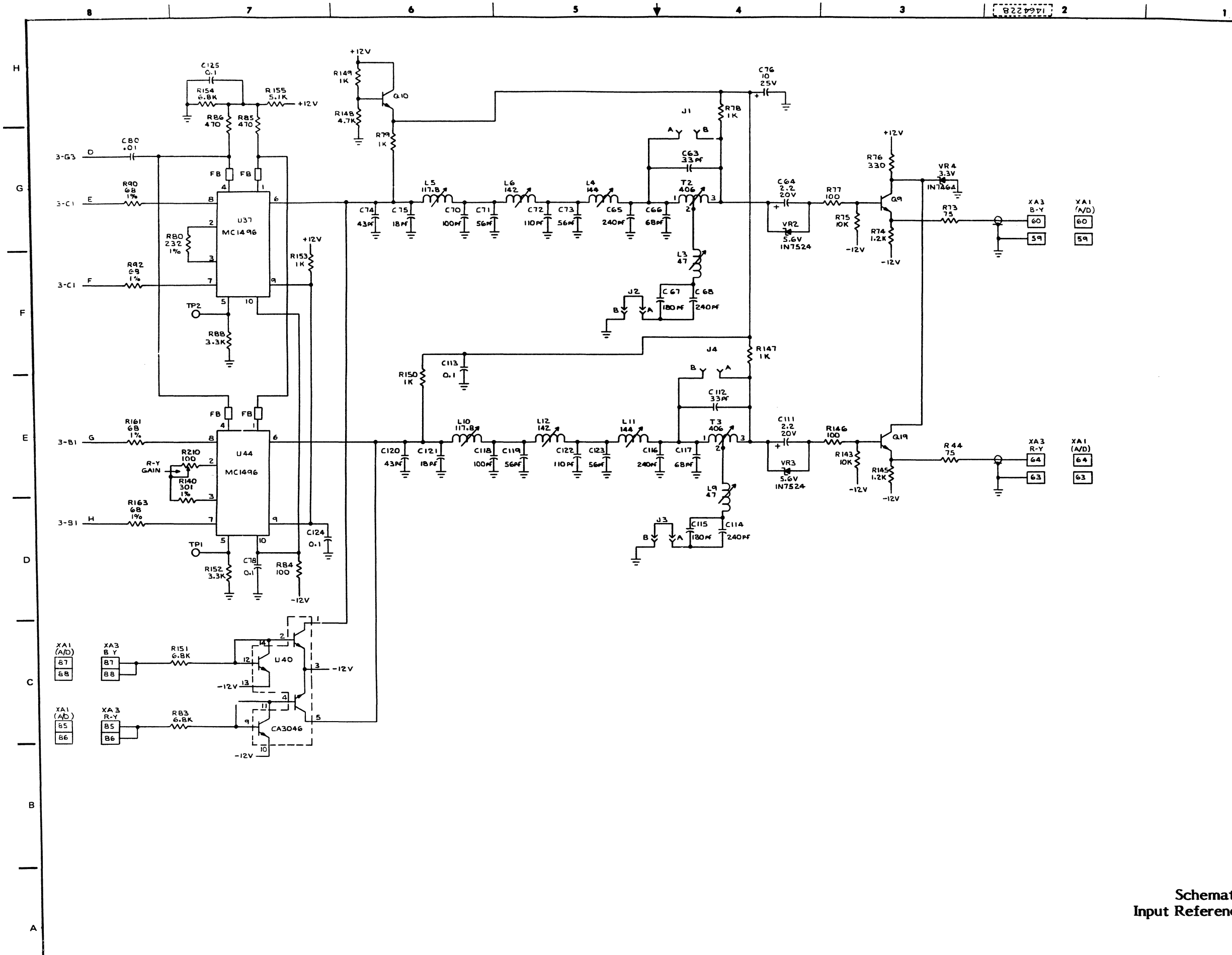
IC LIST														
REFERENCE DESIGNATION	VENDOR P/N	AMPEX P/N	GND PINS			POWER PINS								
			A	D	E	5VA	5VD	5V	12VA	12VD	12V			
U5	NES29K	000-146	10								6			
U37,44	MC1496	586-959	-	-	-	-	-	-	-	-	-	-	-	-
U41	MC10117	589-806	1,16											
U8,48	74LS00	589-813	7			14								
U1,36	74LS04	589-814	7			14								
U3	74LS164	589-827	7			14								
U25	74S00	589-837	7			14								
U12,16,28,47	74S74	589-846	7			14								
U14	74S163	589-850	8			16								
U4	74LS30	589-931	7			14								
U2,10,11,13	74LS221	589-934	8			16								
U21	74S175	589-938	8			16								
U29	MC10216	590-252	1,16								8			

IC LIST														
REFERENCE DESIGNATION	VENDOR P/N	AMPEX P/N	GND PINS			POWER PINS								
			A	D	E	5VA	5VD	5V	12VA	12VD	12V			
U42	MC10131	590-326	1,16								8			
U9	74LS123	590-329	8			16								
U18-20,22,23,26,27	74LS163	590-333	8			16								
U17,39	74S02	590-443	7			14								
U7,52	CD4053	590-450	6,8			16			7					
U30	MC10125	590-464	16			9			8					
U43	MC10116	590-543	1,16						8					
U24	MC10124	590-564	16			9			8					
U32,35,45	TLOB2	590-602				8			4					
U6,31,33,49-51	TLOB2	590-602							8		4			
U46	74221	590-616	8			16								
U15,40	CA3046	590-721	-	-	-	-	-	-	-	-	-	-	-	-
U34	NES29K	000-146	10			8,14			1		6			
U38	NES29K	000-146	10			14					6			

Schematic No. 1464228K. Input Reference PWA, A3, PAL (Sheet 1 of 4)



Schematic No. 1464228K.
 Input Reference PWA, A3, PAL
 (Sheet 3 of 4)



Schematic No. 1464228K.
 Input Reference PWA, A3, PAL
 (Sheet 4 of 4)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER							
				-04	-05	-06					
1											
2											
3	1420426	SCHEMATIC		D	S	H					
4											
5	1374388-AE	INDUCTOR, VARIABLE, 2.7uH, ±10%	L17,18	2	2	2					
6	1374388-AJ	5.6uH	L20	1	1	1					
7	1374388-AL	8.2uH	L15	1	1	1					
8	1374388-AM	10uH	L3,8,14	3	3	3					
9	1374388-AN	12uH	L5,10	2	2	2					
10	1374388-AP	15uH	L12,16	2	2	2					
11	1374388-AS	22uH	L11	1	1	1					
12	1374388-AU	33uH	L2,7	2	2	2					
13	1374388-AV	39uH	L1,6	2	2	2					
14	1374388-AX	56uH	L4,9	2	2	2					
15	1374388-AH	4.8uH	L13	1	1	1					
16	1374388-AT	INDUCTOR, VARIABLE 27.5uH, ±10%	L19	1	1	1					
17	1379491-AF	TRANSFORMER, BIFILIAR, VAR., 76.5uH	T3	1	1	1					
18	1379491-AG	TRANSFORMER, BIFILIAR, VAR., 38.0uH	T4	1	1	1					
19	1400004-01	HANDLE, EXTRACTOR, PWB		1	1	1					
20	1420404-01	SHIELD, ANALOG		1	1	1					
21	1420243-AB	TRANSFORMER	T1,2	2	2	2					
22	1462928-AG	LABEL, EXTRACTOR		1	1	1					
23											
24	064-652	CAPACITOR, CER., .01uF, 50V, ±20%	C5,6,7,8,37,38,39,40,68,70,72,77,78,80,81,108,109,110,111,140	20	20	20					
25	064-653	CAPACITOR, CER., .1uF, 50V, ±20%	C3,4,9,10,11,33,34,36,41-44,66,67,69,71,73-76,79,82,83,103,105,107,112-115,136,137,138,143,147,148	36	36	36					
26	038-249	CAPACITOR, CER., VAR., 2.8pF	C135								
27	034-156	CAPACITOR, MICA., 5pF 500V, ±.5pF	C130,132	2	2	2					
28	034-157	2pF ±.5pF	C19,52,117,120	4	4	4					
29	034-215	10pF ±.5pF	C17,50,121	3	3	3					
30	034-219	120pF ±1%	C95,144	2	2	2					
31	034-221	200pF ±1%	C22,55,127	3	3	3					
32	034-224	160pF ±1%	C16,24,49,57,122	5	5	5					
33	034-239	130pF ±1%	C28,61,85	3	3	3					
34	034-241	CAPACITOR, MICA., 360pF, 500V, ±1%	C13,46	2	2	2					

LM-1420424

AMPEX | Ampex Corporation Redwood City, California		CODE IDENT NO. 92739	LIST OF MATERIALS		LM-1420424 SHEET 2 of 5	DTV M			
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER					
				-04	-05	-06			
35	034-251	CAPACITOR, MICA., 39pF, 500V, ±.5pF	C123	1	1	1			
36	034-252	82pF ±1%	C89,99	2	2	2			
37	034-253	330pF ±1%	C91	1	1	1			
38	034-259	56pF ±1%	C86	1	1	1			
39	034-287	300pF ±1%	C21,54	2	2	2			
40	034-309	560pF ±1%	C133	1	1	1			
41	034-311	1000pF ±1%	C25,27,58,60,98	5	5	5			
42	034-345	3pF ±.5pF	C90,128	2	2	2			
43	034-360	24pF ±.5pF	C96	1	1	1			
44	034-367	91pF ±1%	C118	1	1	1			
45	034-371	510pF ±1%	C20,53	2	2	2			
46	034-532	1pF ±.5pF	C97	1	1	1			
47	034-540	51pF ±1%	C14,47	2	2	2			
48	034-543	240pF ±1%	C30,63	2	2	2			
49	034-677	680pF ±1%	C18,51	2	2	2			
50	034-688	30pF ±.5pF	C131	1	1	1			
51	034-918	CAPACITOR, MICA., 68pF, 500V, ±1%	C23,56,84,126	4	4	4			
52									
53	038-250	CAPACITOR, CER., VAR., 3-15pF	C135	1	1	1			
54	056-022	CAPACITOR, MICA., 6.8pF, 500V, ±.5pF	C15,48	2	2	2			
55	056-140	20pF ±.5pF	C88	1	1	1			
56	056-412	36pF ±.5pF	C129	1	1	1			
57	056-486	4pF ±.5pF	C124,125	2	2	2			
58	056-580	CAPACITOR, MICA., 12pF 500V, ±.5pF	C12,29,45,62,119	5	5	5			
59									
60	056-649	CAPACITOR, MICA., 6pF 500V, ±.5pF	C26,59	2	2	2			
61	056-650	11pF, ±.5pF	C92	1	1	1			
62	034-298	390pF ±1%	C93	1	1	1			
63	056-204	16pF ±.5pF	C94	1	1	1			
64	034-248	50pF ±1%	C101	1	1	1			
65	056-140	20pF ±.5pF	C102	1	1	1			
66	056-602	CAPACITOR, MICA., 9.1pF, 500V, ±.5pF	C87	1	1	1			
67									
68									
69									
70	037-812	CAPACITOR, TANT., 10uF, 25V, ±20%	C32,65,134,142,146	5	5	5			
71	037-892	47uF, 20V, ±20%	C1,35,104,139,141	5	5	5			
72	037-936	22uF, 35V, ±20%	C31,64,145	3	3	3			
73	037-965	CAPACITOR, TANT., 120uF, 10V, ±20%	C2,106	2	2	2			
74	570-590	DELAY LINE, TZB 92-10, 350NS	DL1,2			2			
75	570-590	DELAY LINE, TZB 92-10, 350NS	DL1	1	1				
76	570-591	DELAY LINE, TZB 94-10, 400NS	DL2	1	1				
77	570-511	DELAY LINE, SP526, 150NS	DL3	1	1	1			
78	570-386	DELAY LINE, TZB 66-10, 100NS	DL4	1	1	1			
79									

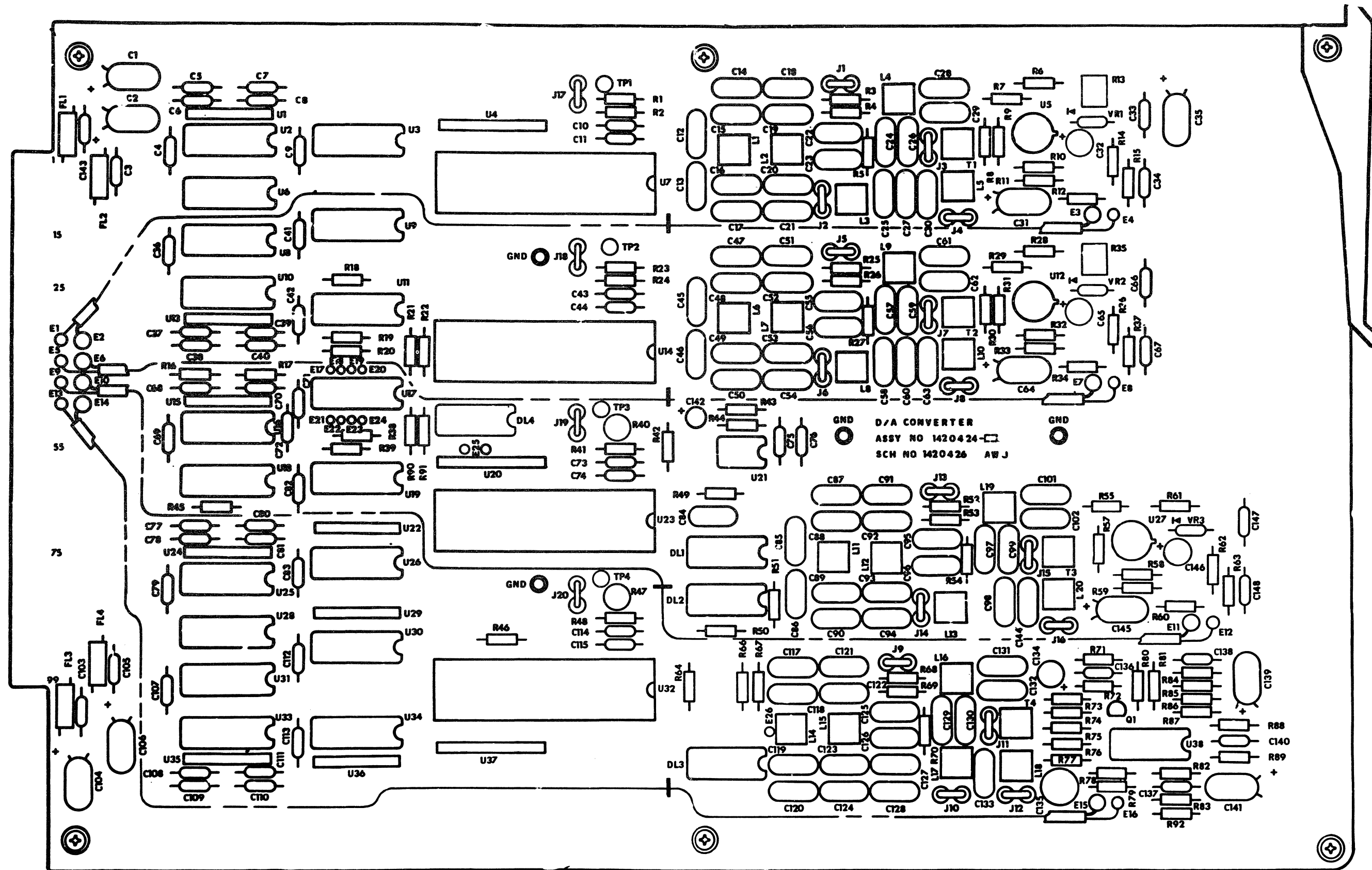
LM-1420424

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1420424	SHEET 3 OF 5		RFV JM										
ITEM NO.	PART NUMBER	DESCRIPTION			REF DESIG	QTY REQD PER DASH NUMBER													
						-04	-05	-06											
80																			
81	013-166	DIODE, ZENER, 3.3V, IN746A			VR1,2,3	3	3	3											
82																			
83	051-770	FERRITE - CHOKE			FL1,2,3,4	4	4	4											
84																			
85	586-204	INTEGRATED CIRCUIT, CA3018			U5,12,27	3	3	3											
86	586-764		741		U21	1	1	1											
87	586-276		CA3046		U38	1	1	1											
88	587-133		10116		U18	1	1	1											
89	587-139		10131		U3,11	2	2	2											
90	587-549		10104		U19	1	1	1											
91	587-550		10136		U17	1	1	1											
92	587-630		10115		U6,8,28,31	4	4	4											
93	590-049		10145		U26,30,34	3	3	3											
94	590-811		TDC1016J-9		U32	1	1	1											
95	590-971		TDC1016J-8		U7,14,23	3	3	3											
96	590-982	INTEGRATED CIRCUIT, 10186			U9	1	1	1											
97																			
98																			
99																			
100	039-163	NETWORK, RESISTOR, 470 OHMS			U4,20	2	2	2											
101	039-223		1K		U22,29,36	3	3	3											
102	039-283		50		U2,10,16,25,32	5	5	5											
103	039-294		1K		U37	1	1	1											
104	039-300	NETWORK, RESISTOR, 330 OHMS			U1,13,15,24,35	5	5	5											
105																			
106	066-661	RESISTOR, C.F., 120 OHMS, 1/4W, ±5%			R16	1	1	1											
107	066-662		200		R17	1	1	1											
108	066-663		220		R2,24,41,48,82,91	6	6	6											
109	066-665		1K		R12,14,19,21,34,36,38,38,39,45,60,83	11	11	11											
110	066-666		2.7K		R10,32,58	3	3	3											
111	066-668		4.7K		R85	1	1	1											
112	066-689		2.2K		R84	1	1	1											
113	066-715		1.2K		R62	1	1	1											
114	066-810		10		R11,33,42,49,59,64,88	7	7	7											
115	066-818		470		R18,20,22,46	4	4	4											
116	066-819		620		R89	1	1	1											
117																			
118																			
119	066-828		4.3K		R9,31,57	3	3	3											
120	066-838		330		R73	1	1	1											
121	066-863		3.6K		R71	1	1	1											
122																			
123																			
124	076-004	RESISTOR, C.F., 180 OHMS, 1/4W, ±5%			R1,23,90	3	3	3											

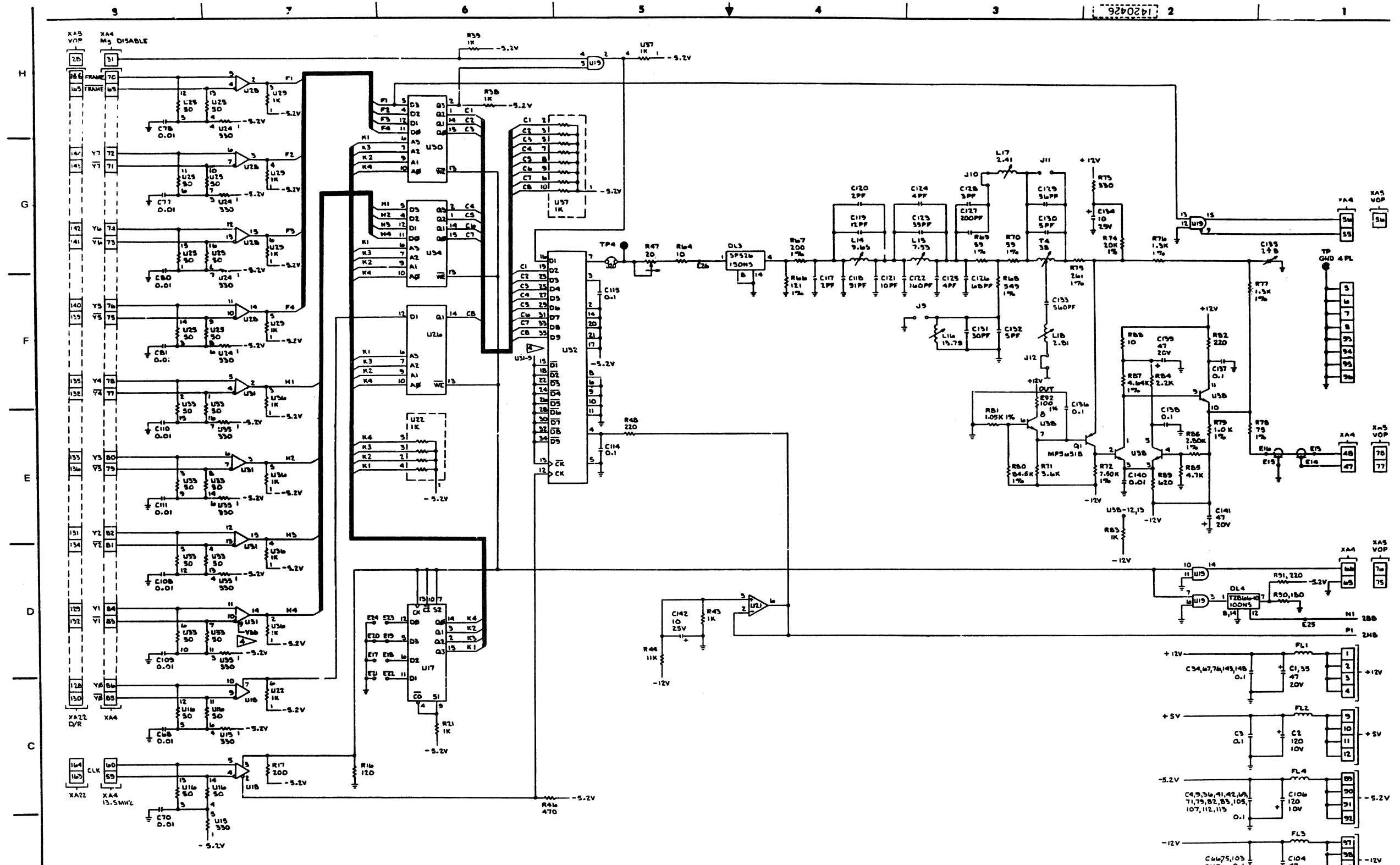
LM-1420424

AMPEX | Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1420424 SHEET 4 OF 5	REV M				
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER					
				-04	-05	-06			
125	062-624	RESISTOR, M.F., 1.0K, OHMS, 1/4W, ±1%	R43,79	2	2	2			
126	062-693	20K	R8,30,74	1	3	3			
127	062-847	100	R92	1	1	1			
128	062-599	1.3K	R76.77	2	2	2			
129	062-600	11K	R44	1	1	1			
130	062-948	2.55K	R61	1	1	1			
131	062-625	1.21K	R61						
132	062-693	20K	R8,30,56,74	1					
133	062-836	75	R15,37,63,78	4	4	4			
134	062-855	121	R50,66	2	2	2			
135	062-874	200	R51,67	2	2	2			
136	062-881	261	R7,29,55,75	4	4	4			
137	062-906	549	R3,25,52,68	4	4	4			
138	062-977	7.50K	R72	1	1	1			
139	062-951	2.80K	R86	1	1	1			
140	062-965	4.64K	R87	1	1	1			
141	066-986	84.5K	R80	1	1	1			
142	076-341	59	R4,5,26,27,53,54,69,70	8	8	8			
143	062-936	1.74K	R28	1	1	1			
144	062-925	1.05K	R81	1	1	1			
145	066-751	RESISTOR, M.F., 1.13K, OHMS, 1/4W, ±1%	R6	1	1	1			
146	058-498	RESISTOR, VAR., 500 OHMS	R13,35	2	2	2			
147	058-584	RESISTOR, VAR., 20 OHMS	R40,47	2	2	2			
148	173-024	TERMINAL, STUD, TURRET	TP, GND	4	4	4			
149	602-044	PLUG, SHORTING	J2,4,6,8,10,12,14,16-20	2	2	2			
150	187-354	TERMINAL, PUSH-IN	TP1-4	4	4	4			
151	014-781	TRANSISTOR, 6518	Q1	1	1	1			
152									
153	143-981	CONN., SIGNAL CIRCUIT, JACK, P.C., TIP	REF:J1-20	40	40	40			
154	582-282	I.C., MTG HDW., 40 PINS	REF:U7,14,23,32	4	4	4			
155	582-329	8 PINS	REF:U21	1	1	1			
156	582-330	14 PINS	REF:U38	1	1	1			
157	582-331	I.C., MTG HDW., 16 PINS	REF:U3,6,8,9,11,17,18,19,26,28,30,31,34	13	13	13			
158									
159									
160	283-105	SPACER		1	1	1			
161	473-324	SCREW, PAN HD., X-REC, 4-40 X .250 LG		5	5	5			
162	473-326	SCREW, PAN HD., X-REC, 4-40 X .375 LG		1	1	1			
163	501-008	WASHER, PLAIN #4		1	1	1			
164	501-169	WASHER, PLAIN, SM PATTERN, #4		5	5	5			
165	506-011	WASHER, BOWED, .257 MIN ID		1	1	1			
166	600-618	SLEEVING, TEFLON		A/R	A/R	A/R			
167	615-004	WIRE, SOLID, UNINSULATED, 24 AWG		A/R	A/R	A/R			
168	616-569	CABLE, COAXIAL, 75 OHM		A/R	A/R	A/R			
169	302-395	STRAP, CABLE, MOUSETAIL		4	4	4			

LM-1420424

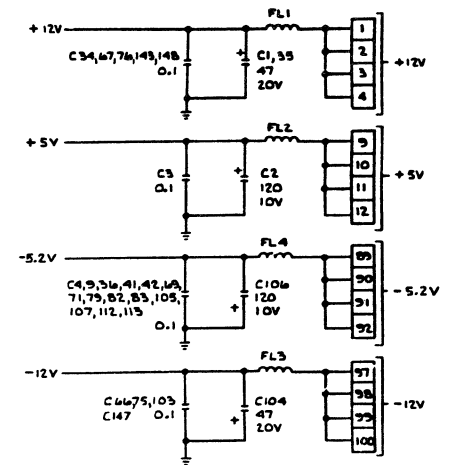


Assembly No. 1420424-06M.
D/A Converter PWA, A4

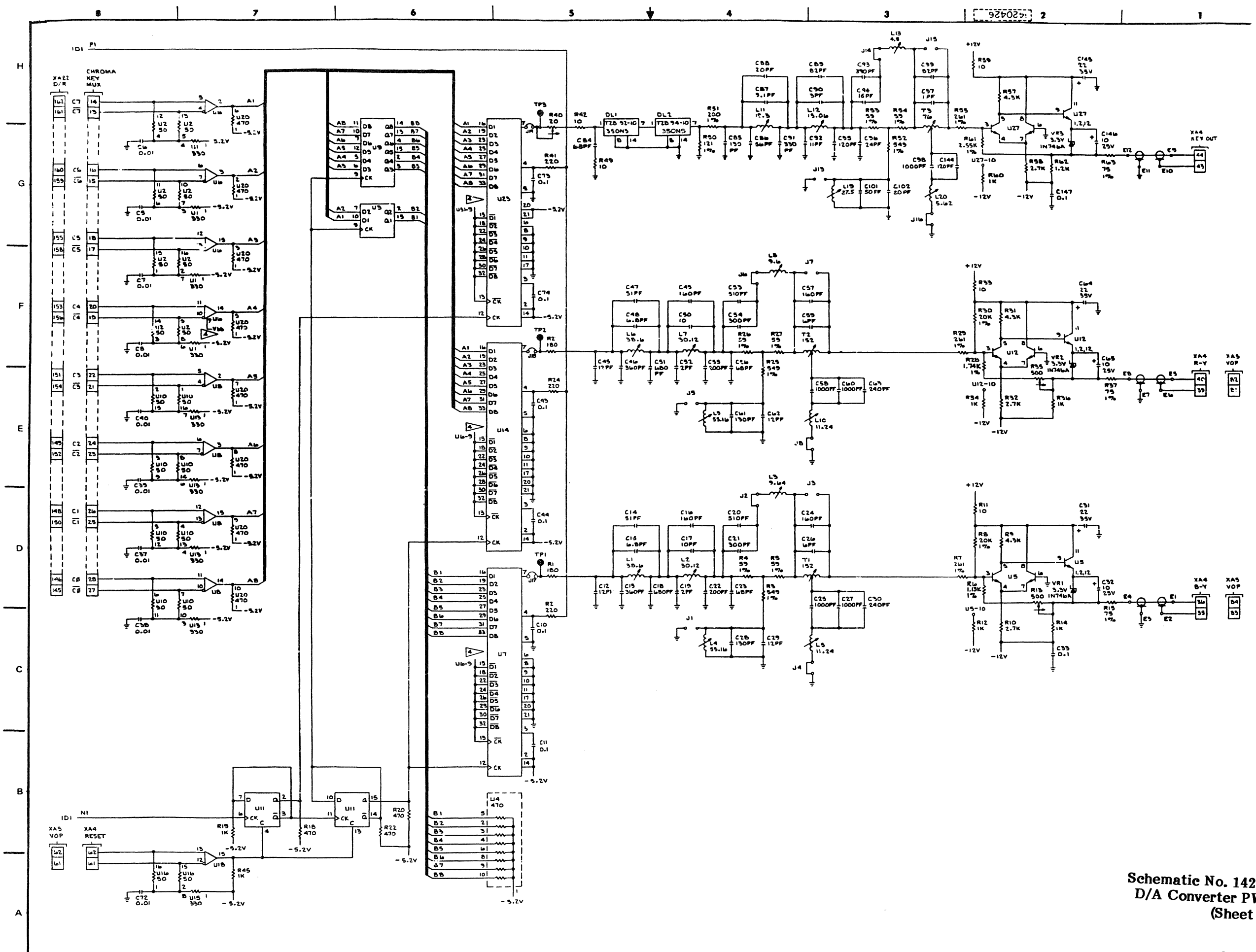


NOTES: UNLESS OTHERWISE SPECIFIED.
 1. RESISTANCE VALUES ARE IN OHMS 1/4W, 5%.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 3. INDUCTANCE VALUES ARE IN MICROHENRIES.
 CK DI TO D5 TO Vbb.

I.C. LIST										REF. DES.	
REF. DES.	U1,13,15,24,35	U2,10,16,25,33	U3,11	U4,20	U5,12,27	U6,8,28,31	U7,14,23	U9	U17	LAST USED	NOT USED
AMPEX P/N	039-300	039-283	587-139	039-163	586-204	587-630	590-971	590-982	587-550	C149	C100, 116, C149
VENDOR P/N	RES. NET	RES. NET	10191	RES. NET	CA301B	10115	TDC1016J-B	10186	10196		
VOLTAGE (PIN)	(1) -5.2V		-5.2V (8)	(1) -5.2V	-5.2V (8)		-5.2V (8)	-5.2V (8)	(1,16)		
GROUND (PIN)			(1,16)		(1,16)		(1,16)		(1,16)		
REF. DES.	U18	U19	U21	U22,23,34	U26,30,34	U32	U37	U38			
AMPEX P/N	58-133	587-549	586-764	039-754	590-043	590-811	039-223	586-276			R56, 65
VENDOR P/N	10116	10104	741	RES. NET	10145	TDC1016J-B	RES. NET	CA3046			
VOLTAGE (PIN)	-5.2V (8)	-5.2V (8)	+12V (7)		-5.2V (8)		-5.2V (1)				
GROUND (PIN)	(1,16)	(1,16)	-12V (4)		(1,16)						



Schematic No. 1420426H.
 D/A Converter PWA, A4
 (Sheet 1 of 2)



Schematic No. 1420426H.
 D/A Converter PWA, A4
 (Sheet 2 of 2)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																		
				-01	-02																	
1																						
2																						
3	1464551	SCHEMATIC		A	B																	
4																						
5	1374388-AE	INDUCTOR, VARIABLE, 2.7uH	L5	1	1																	
6	1374388-AL	INDUCTOR, VARIABLE, 8.2uH	L3,4	2	2																	
7	1374388-AS	INDUCTOR, VARIABLE, 22uH	L2	1	1																	
8	1379491-AL	BIFILIAR, TRANSFORMER, VAR., 26.9uH	T4,5	2	2																	
9																						
10	1400004-01	EJECTOR, PWB		1	1																	
11	1420404-01	SHIELD, ANALOG, PWB		1	1																	
12	1462928-AL	LABEL, PWB, EJECTOR ANALOG		1	1																	
13																						
14	064-652	CAPACITOR, CER., MONO, .01uF, 100V, ±20%	C30,37,40,50,57,88	6	6																	
15	064-653	CAPACITOR, CER., MONO, .1uF, 100V, ±20%	C1-6,8-13,15-20,22-29,31,33-35,41,42,45,46,48,51,52,59,60,64,67,77,78,83,85,87,90-95,98	53	53																	
16																						
17	034-215	CAPACITOR, MICA, 10pF, 500V, ±5pF	C55,65,71,72,76,79	6	6																	
18	034-221	200pF, ±1%	C66	1	1																	
19	034-222	100pF, ±1%	C89	1	1																	
20	034-252	82pF, ±1%	C58,74	2	2																	
21	034-297	180pF, ±1%	C21,39,43,44	4	4																	
22	034-311	1000pF, ±1%	C54,82,86	3	3																	
23	034-313	250pF, ±1%	C38,49,62,63	4	4																	
24	034-367	91pF, ±1%	C47	1	1																	
25	056-105	18pF, ±5pF	C61,73,81	3	3																	
26	056-650	CAPACITOR, MICA, 11pF, 500V, ±5pF	C80	1	1																	
27																						
28																						
29																						
30	035-598	CAPACITOR, MYLAR, .047uF, 50V, ±5%	C36	1	1																	
31	035-734	CAPACITOR, MYLAR, .01uF, 50V, 15%	C32,56,68	3	3																	
32	035-893	CAPACITOR, MYLAR, .1uF, 50V, ±5%	C69,70	2	2																	
33																						
34	037-812	CAPACITOR, TANT., 10uF, 25V, ±20%	C96,97	2	2																	
35	037-892	CAPACITOR, TANT., 47uF, 20V, ±20%	C14,84	2	2																	
36	037-965	CAPACITOR, TANT., 120uF, 10V, ±20%	C7,53	2	2																	

LM-1464549

AMPEX | Ampex Corporation REDWOOD CITY CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS		LM-1464549	REV B														
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-01	-02															
37																				
38	038-250	CAPACITOR, VARIABLE, 3-15pF	C75	1	1															
39																				
40	013-599	DIODE, SWITCHING	CR1-6	6	6															
41																				
42	051-770	FERRITE - CHOKE	FL1-4	4	4															
43																				
44	000-152	INTEGRATED CIRCUIT, MC10125	U21	1	1															
45	586-959	↑ ↑ MC1496G	U30,31,36,39	4	4															
46	587-626	74502	U26	1	1															
47	589-813	74LS00	U10	1	1															
48	589-820	74LS74	U3	1	1															
49	589-823	74LS138	U11	1	1															
50	589-838	74504	U8,34	2	2															
51	589-844	74530	U1	1	1															
52	589-846	74574	U5	1	1															
53	589-850	745163	U2,6,9,13,19	5	5															
54	590-450	CD4053BE	U37	1	1															
55	590-535	74164	U4	1	1															
56	590-543	MC10116	U29,32	2	2															
57	590-564	MC10124	U42	1	1															
58	590-586	74LS374	U14-18	5	5															
59	590-602	TL082	U27,28,38	3	3															
60	590-616	74221	U33	1	1															
61	590-734	DAC08AQ	U22-25	4	4															
62	590-923	745133	U12	1	1															
63	590-991	INTEGRATED CIRCUIT, CA3094AT	U35,40,41	3	3															
64																				
65																				
66																				
67	039-312	NETWORK, RESISTOR, 2.2K	U7,20	2	2															
68																				
69	066-661	RESISTOR, C.F., 120 OHMS, 1/4W, ±5%	R5,6,158,159	4	-															
70	066-665	↑ ↑ 1K ↑ ↑ ↑	R3,4,31,45,130	5	5															
71	066-666	2.7K	R66,122	2	2															
72	066-667	3K	R2,61,94,119,141	5	5															
73	066-668	4.7K	R60,64,91,116,120,138,142	7	7															
74	066-675	1.8K	R38,62,77,112,118,140	6	6															
75	066-677	68	R40-43,73,74,102,104,145,150	10	10															
76	066-689	2.2K	R63,117,139,157	4	4															
77	066-711	7.5K	R84,99,110	3	3															
78	066-720	3.3K	R78,133,134	3	3															
79	066-812	100	R28,143,148	3	3															
80	066-813	↓ ↓ 150 ↓ ↓ ↓	R24,65,90,115,137,167	6	6															
81	066-815	RESISTOR, C.F., 300 OHMS, 1/4W, ±5%	R146,151	2	2															

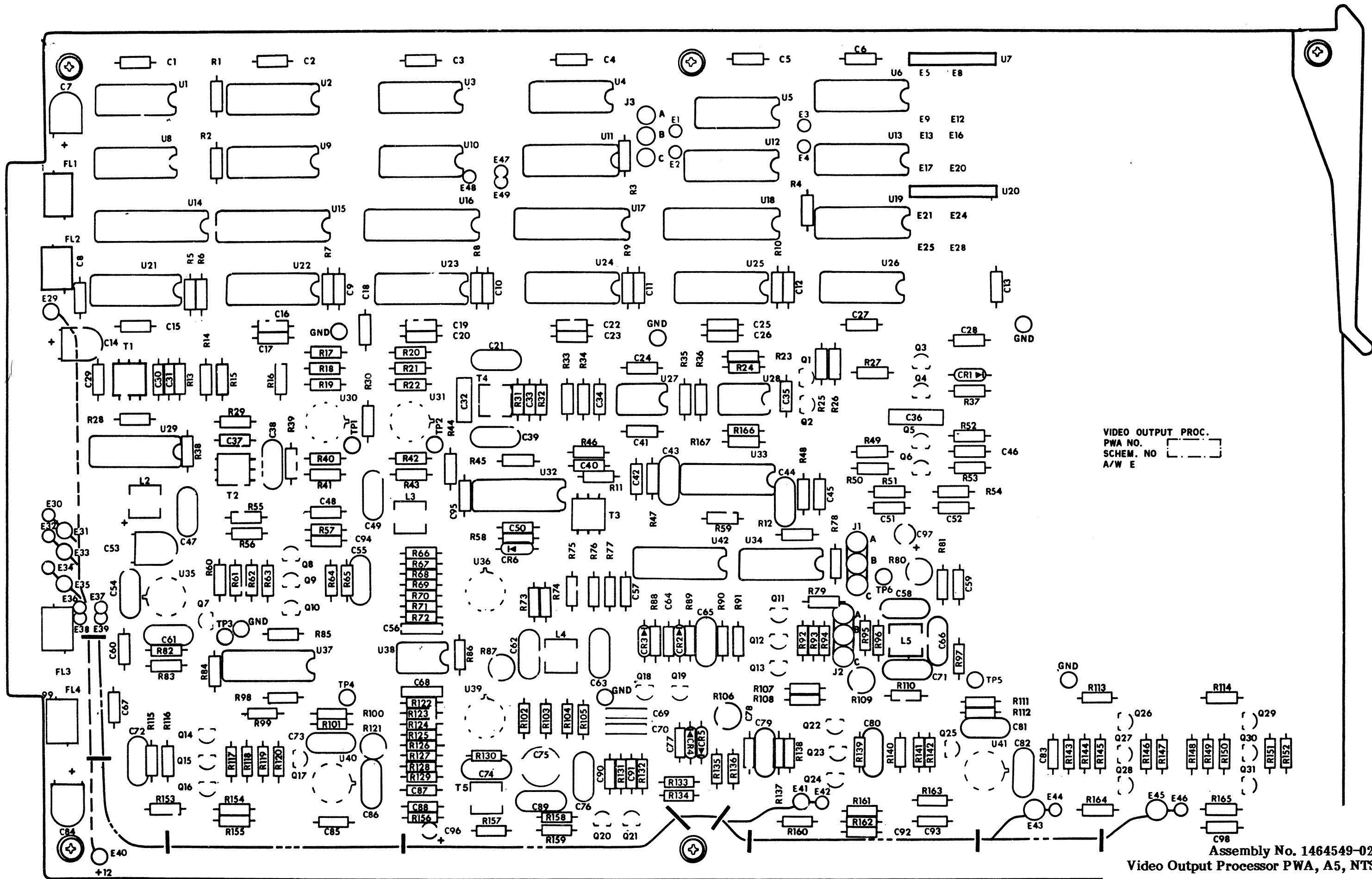
LM-1464549

AMPEX		Amplex Corporation REDWOOD CITY CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1464549	REV B
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER			
				-01	-02		
82	066-817	RESISTOR, C.F., 430 OHMS, 1/4W, ±5%	R135,136	2	2		
83	066-818	↑ ↑ 470 ↑ ↑ ↑	R32,96,156	3	3		
84	066-821	820	R13	1	1		
85	066-824	1.5K	R76,82,83,100,101,111, 144,149	8	8		
86	066-826	2K	R1,16,30	3	3		
87	066-827	3.9K	R27,50	2	2		
88	066-830	10K	R23,51,55,56,88,89, 154,155,161,163,166	11	11		
89	066-832	18K	R53	1	1		
90	066-838	330	R17,18,20,21,75	5	5		
91	066-839	560	R29,46,93	3	3		
92	066-846	30K	R47	1	1		
93	066-847	33K	R37	1	1		
94	066-849	100K	R52,54,81,97	4	4		
95	066-855	39	R25,26	2	2		
96	066-856	15K	R48	1	1		
97	066-865	12K	R49	1	1		
98	066-872	360	R19,22	2	2		
99	066-873	20K	R86,129	2	2		
100	066-938	47	R85,98,131,132,147, 152	6	6		
101	076-004	↓ ↓ 180 ↓ ↓ ↓	R14,15,113,114	4	-		
102	076-045	RESISTOR, C.F., 75 OHMS, 1/4W, ±5%	R57,79,153	3	3		
103	066-661	RESISTOR, C.F., 120 OHMS, 1/4W, ±5%	R158,159		2		
104	066-814	RESISTOR, C.F., 270 OHMS, 1/4W, ±5%	R14,15		2		
105	076-004	RESISTOR, C.F., 180 OHMS, 1/4W, ±5%	R5,6,113,114		4		
106	062-624	RESISTOR, M.F., 1K OHMS, 1/4W, ±1%	R12,33-36	5	5		
107	062-814	↑ ↑ 44.2 ↑ ↑ ↑	R160	1	1		
108	062-822	51.1	R107	1	1		
109	062-836	75	R164,165	2	2		
110	062-847	100	R108,162	2	2		
111	062-863	147	R95	1	1		
112	062-877	221	R44,69,70,103,105, 125,126	7	7		
113	062-878	226	R67,71,123,128	4	4		
114	062-882	274	R59	1	1		
115	062-887	332	R39	1	1		
116	062-901	475	R68,72,92,124,127	5	5		
117	062-906	549	R58	1	1		
118	062-933	1.54K	R11	1	1		
119	062-948	↓ ↓ 2.55K ↓ ↓ ↓	R7,8	2	2		
120	062-968	RESISTOR, M.F., 4.99K OHMS, 1/4W, ±1%	R9,10	2	2		
121							
122							
123							
124	044-927	RESISTOR, VARIABLE, 500 OHMS	R106	1	1		
125	044-941	RESISTOR, VARIABLE, 100 OHMS	R109	1	1		
126	058-610	RESISTOR, VARIABLE, 20K OHMS	R80,87,121	3	3		

LM-1464549

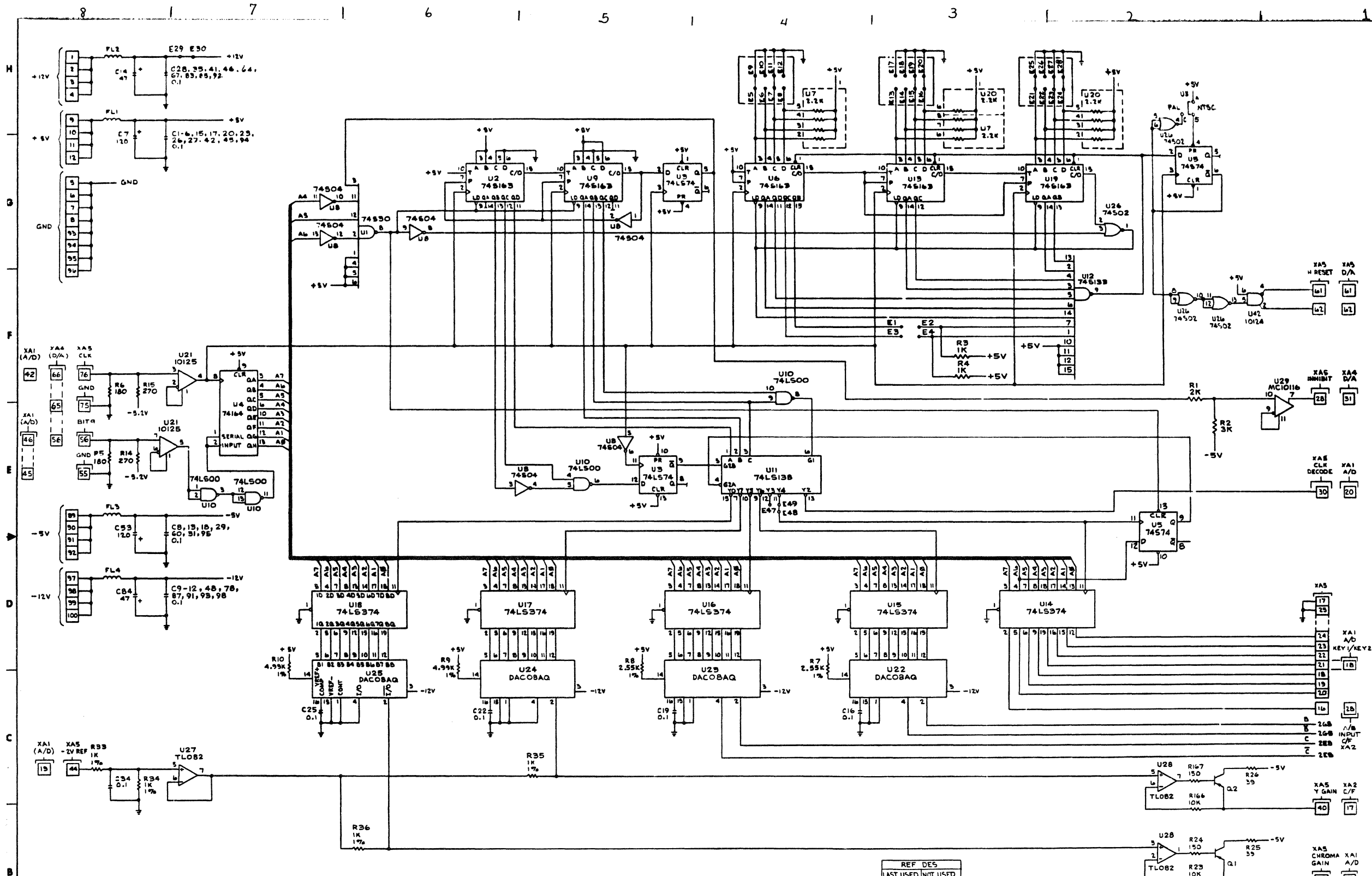
AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1464549	REV B												
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER															
				-01	-02														
127																			
128	932-035	SHIELDING BEAD, .118 LG	BASE OF: Q27,28,30,31	4	4														
129																			
130	602-044	SHORTING PLUG, RED	J1-3	3	3														
131																			
132	187-354	TERMINAL, PUSH-IN	TP1-6	6	6														
133																			
134	560-471	TRANSFORMER, RF	T1-3	3	3														
135																			
136	014-780	TRANSISTOR, NPN, MPS6514	Q3-6,8-16,18,19, 21-24,27,28,30,31	23	23														
137	014-781	TRANSISTOR, PNP, MPS6518	Q1,2,7,17,20,25,26, 29	8	8														
138																			
139	143-981	CONN, SIGNAL CIRCUIT, JACK, P.C. TIP	REF: J1-A,B,C,J2-A, B,C,J3-A,B,C.	9	9														
140																			
141	600-036	SLEEVING, TEFLON, .035 ID		AR	AR														
142	615-004	WIRE, SOLID, INSULATED, 24 AWG		AR	AR														
143	616-569	CABLE, COAXIAL, 75 OHM		AR	AR														
144		WIRE, STRD, INS, 24 AWG		AR	AR														
145																			
146	283-105	SPACER		1	1														
147																			
148	473-324	SCREW, PAN HD, XREC, 4-40 X .250 LG		5	5														
149	473-326	SCREW, PAN HD, XREC, 4-40 X .375 LG		1	1														
150																			
151	302-395	STRAP, CABLE, MOUSE TAIL		9	9														
152																			
153	501-008	WASHER, PLAIN, #4		1	1														
154	501-169	WASHER, PLAIN, SM PATTERN, #4		5	5														
155	506-011	WASHER, BOWED		1	1														

LM-1464549



VIDEO OUTPUT PROC.
 PWA NO. []
 SCHEM. NO. []
 A/W E

Assembly No. 1464549-02B.
 Video Output Processor PWA, A5, NTSC

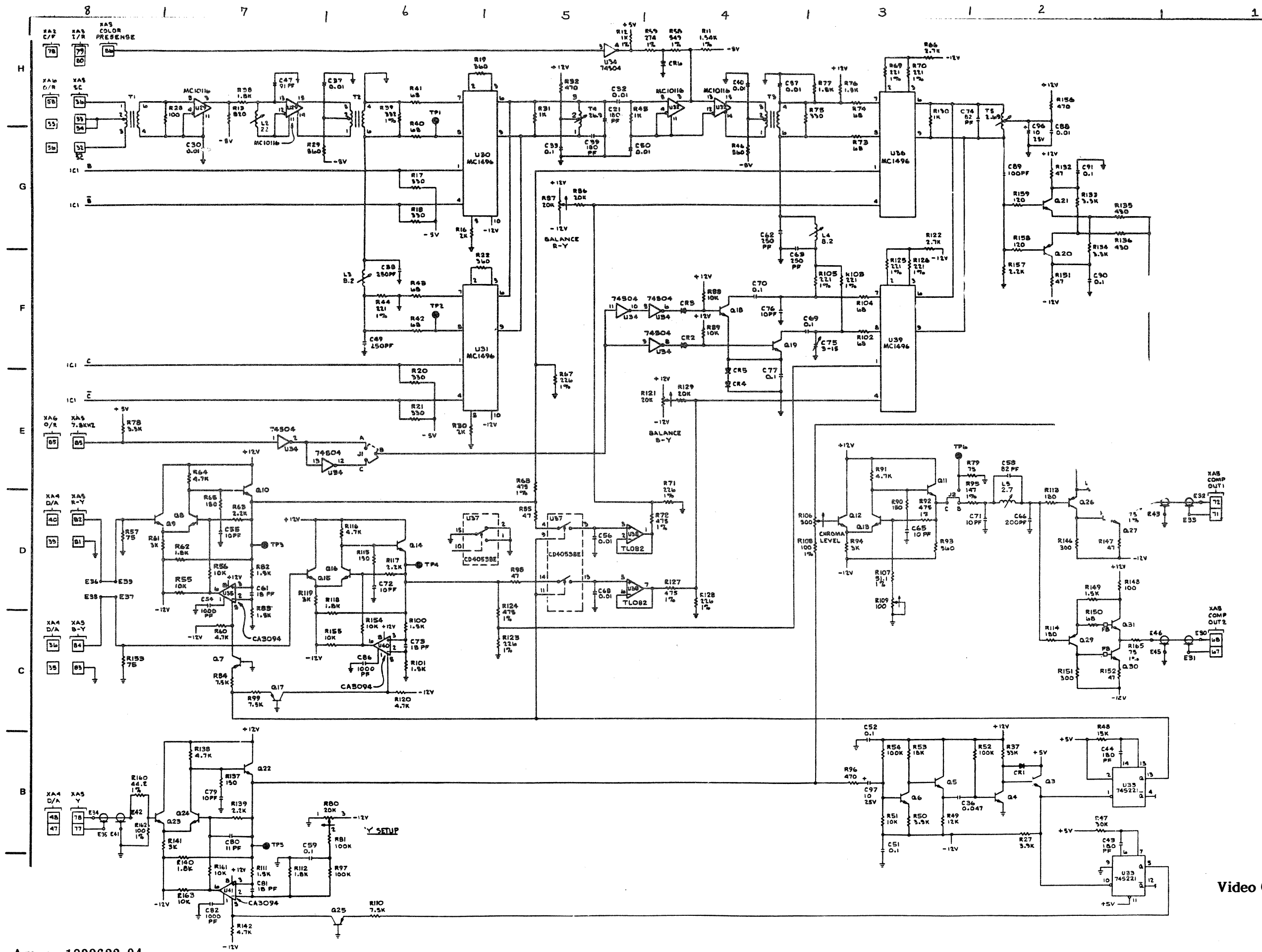


- NOTES: UNLESS OTHERWISE SPECIFIED
1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 3. DIODES ARE CD45B.
 4. NPN TRANSISTORS ARE MPS4514.
 5. PNP TRANSISTORS ARE MPS451B.
 6. INDUCTANCE VALUES ARE IN MICRONHENRIES.

I.C. LIST											
REF. DES.	U1	U2, 6, 9, 13, 19	U5	U8, 34	U10	U11	U4	U14-18	U21	U42	
AMPEX P/N	589-844	589-850	589-846	589-838	589-813	589-823	590-535	590-586	000-152	590-544	
VENDOR P/N	74590	74513	74574	74504	74LS00	74LS138	74164	74LS374	MC10125	MC10124	
VOLTAGE PIN	+5V(14)	+5V(16)	+5V(14)	+5V(14)	+5V(14)	+5V(16)	+5V(14)	+5V(20)	+5V(9), -5V(8)	-5V(8)	
GROUND PIN	(7)	(8)	(7)	(7)	(7)	(8)	(7)	(10)	(16)	(16)	
REF. DES.	U22, 23, 24, 25	U26	U29, 32	U30, 31, 36, 39	U27, 28, 38	U33	U35, 40, 41	U37	U7, 20	U3	U12
AMPEX P/N	590-734	587-474	590-543	586-959	590-602	590-616	590-931	590-450	039-312	589-820	590-923
VENDOR P/N	DAC08AQ	74502	MC10116	MC14966	TLO82	74221	CA3054AT	CD4053BE	2.2K 51P	74LS74	74LS133
VOLTAGE PIN	+5V(15), -12V(3)	+5V(14)	-5V(8)	---	+12V(7), -12V(4)	+5V(16)	+12V(7), -12V(4)	+5V(1)	+5V(1)	+5V(14)	+5V(16)
GROUND PIN	---	(7)	(1), (16)	---	---	(8)	---	(8, 16)	---	(7)	(8)

REF. DES.	LAST USED	NOT USED
C38		
CR6		
E49		
FL4		
J3		
L5		
Q31		
K17		
T5		
TP6		
U42		

Schematic No. 146451C.
Video Output Processor PWA, A5, NTSC
(Sheet 1 of 2)



Schematic No. 146451C.
Video Output Processor PWA, A5, NTSC
(Sheet 2 of 2)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER				
				-01	-02	-03	-04	-05
1								
2								
3	1464234	SCHEMATIC	(-)	A	B	D	E	
4								
5	1374388-AD	INDUCTOR, VARIABLE, 2.2uH	L5	1	1	1	1	1
6	1374388-AK	INDUCTOR, VARIABLE, 6.8uH	L3,4	2	2	2	2	2
7	1374388-AR	INDUCTOR, VARIABLE, 18uH	L2	1	1	1	1	1
8	1379491-AL	BIFILIAR, TRANSFORMER, VAR, 26.9uH	T4,5	2	2	2	2	2
9								
10	1400004-01	EJECTOR, PWB		1	1	1	1	1
11	1420404-01	SHIELD, ANALOG, PWB		1	1	1	1	1
12	1462928-AL	LABEL, PWB, EJECTOR ANALOG		1	1	1	1	1
13								
14	064-652	CAPACITOR, CER., MONO, .01uF, 100V, ±20%	C30,37,40,50,57,88	6	6	6	6	6
15	064-653	CAPACITOR, CER., MONO, .1uF, 100V, ±20%	C1-6,9-13,15-20,22-29,31,33-35,41,42,45,46,48,51,52,59,60,67,77,78,83,85,87,90-95,98,8,6,4	53	53	53	53	53
16								
17	034-215	CAPACITOR, MICA, 10pF, 500V, ±5pF	C55,65,72,76,79	5	5	5	5	5
18	034-221	200pF, ±1%	C38,49,62,63	4	4	4	4	4
19	034-222	100pF, ±1%	C89	1	1	1	1	1
20	034-224	160pF, ±1%	C66	1	1	1	1	1
21	034-285	75pF, ±1%	C47	1	1	1	1	1
22	034-297	180pF, ±1%	C43,44	2	2	2	2	2
23	034-311	1000pF, ±1%	C54,82,86	3	3	3	3	3
24	034-367	91pF, ±1%	C21,39	2	2	2	2	2
25	034-918	68pF, ±1%	C58	1	1	1	1	1
26	056-650	11pF, ±5pF	C80	1	1	1	1	1
27	056-105	18pF, ±5pF	C61,73,81	3	3	3	3	3
28	056-680	43pF, ±5pF	C74	1	1	1	1	1
29	056-696	CAPACITOR, MICA, 8pF, 500V, ±5pF	C71	1	1	1	1	1
30								
31								
32								
33	035-598	CAPACITOR, MYLAR, .047uF, 50V, ±5%	C36	1	1	1	1	1
34	035-734	CAPACITOR, MYLAR, .01uF, 50V, ±5%	C32,56,68	3	3	3	3	3
35	035-893	CAPACITOR, MYLAR, .1uF, 50V, ±5%	C69,70	2	2	2	2	2
36								

LM-1464232

AMPEX | Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS			LM-1464232	REV K	
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER				
				-01	-02	-03	-04	-05
37	037-812	CAPACITOR, TANT, 10uF, 25V, ±20%	C96.97	2	2	2	2	2
38	037-892	CAPACITOR, TANT, 47uF, 20V, ±20%	C14.84	2	2	2	2	2
39	037-965	CAPACITOR, TANT, 120uF, 10V, ±20%	C7.53	2	2	2	2	2
40								
41	038-250	CAPACITOR, VARIABLE, 3-15pF	C75	1	1	1	1	1
42								
43	013-599	DIODE, SWITCHING	CR1-5	5	5	5	-	-
44	013-599	DIODE, SWITCHING	CR1-6				6	6
45	051-770	FERRITE - CHOKE	FL1-4	4	4	4	4	4
46	590-564	INTEGRATED CIRCUIT, MC10124	U42				1	1
47	000-152	INTEGRATED CIRCUIT, MC10125	U21	1	1	1	1	1
48	586-959	MC1496G	U30,31,36,39	4	4	4	4	4
49	587-626	74S02	U26	1	1	1	1	1
50	589-813	74LS00	U10	1	1	1	1	1
51	589-820	74LS74	U3	1	1	1	1	1
52	589-823	74LS138	U11	1	1	1	1	1
53	589-838	74S04	U8,34	2	2	2	2	2
54	589-844	74S30	U1	1	1	1	1	1
55	589-846	74S74	U5	1	1	1	1	1
56	589-850	74S163	U2,6,9,13,19	5	5	5	5	5
57	590-450	CD4053BE	U37	1	1	1	1	1
58	590-535	74164	U4	1	1	1	1	1
59	590-543	MC10116	U29,32	2	2	2	2	2
60	590-586	74LS374	U14-18	5	5	5	5	5
61	590-602	TL082	U27,28,38	3	3	3	3	3
62	590-616	74221	U33	1	1	1	1	1
63	590-734	DAC08AQ	U22-25	4	4	4	4	4
64	590-991	INTEGRATED CIRCUIT, CA3094AT	U35,40,41	3	3	3	3	3
65	590-923	INTEGRATED CIRCUIT, 74S133	U12	1	1	1	1	1
66								
67								
68	039-312	NETWORK, RESISTOR, 2.2K	U7,20	2	2	2	2	2
69								
70	066-838	RESISTOR, C.F., 330 OHMS, 1/4W, ±5%	R17,18,20,21,75	5	5	5	5	5
71	066-661	120	R5,6,158,159	4	4	4	4	-
72	066-665	1K	R3,4,31,45,130	5	5	5	5	5
73	066-666	2.7K	R66,122	2	2	2	2	2
74	066-667	3K	R2,12,61,94,119,141	6	6	6	-	-
75	066-668	4.7K	R60,64,91,116,120,138,142	7	7	7	7	7
76	066-675	1.8K	R38,62,77,112,118,140	6	6	6	6	6
77	066-677	68	R40-43,73,74,102,104,145,150	10	10	10	10	10
78	066-689	2.2K	R63,117,139,157	4	4	4	4	4
79	066-711	7.5K	R84,99,110	3	3	3	3	3
80	066-720	RESISTOR, C.F., 3.3K OHMS, 1/4W, ±5%	R78,133,134	3	3	3	3	3

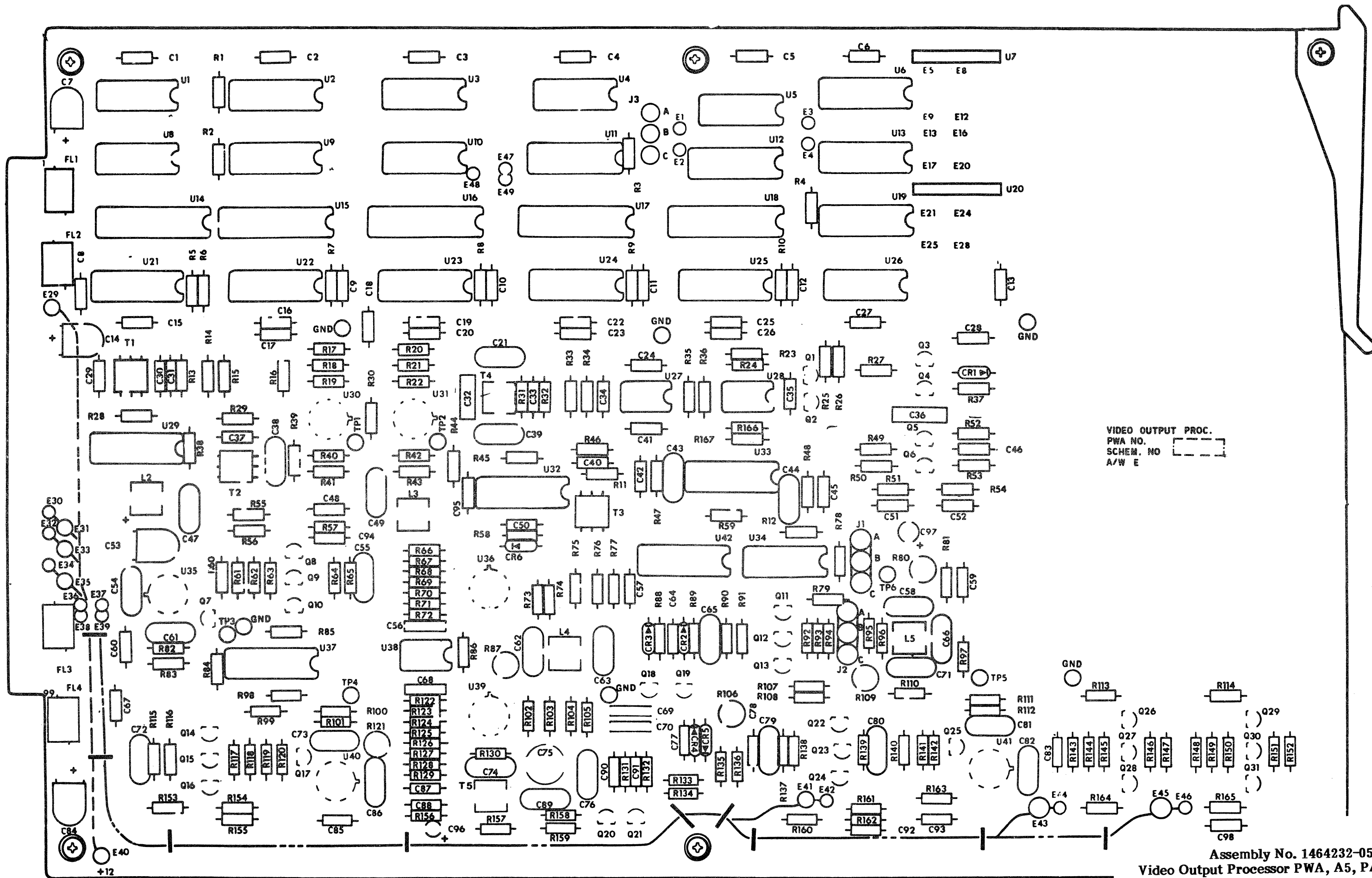
LM-1464232

AMPEX		AmpeX Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1464232	REV K		
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER					
				-01	-02	-03	-04	-05	
81	066-812	RESISTOR, C.F., 100 OHMS, 1/4W, ±5%	R28,143,148	3	3	3	3	3	
82	066-813	150	R24,65,90,115,137,167	6	6	6	6	6	
83	066-815	300	R146,151	2	2	2	2	2	
84	066-817	430	R135,136	2	2	2	2	2	
85	066-818	470	R32,96,156	3	3	3	3	3	
86	066-821	820	R13	1	1	1	1	1	
87	066-823	1.1K	R59	1	1	1	-	-	
88	066-824	1.5K	R58,76,82,83,100,101,111,144,149	9	9	9	-	-	
89	066-826	2K	R1,11,16,30	4	4	4	-	-	
90	066-827	3.9K	R27,50	2	2	2	2	2	
91	066-830	10K	R23,51,55,56,88,89,154,155,161,163,166	11	11	11	11	11	
92	066-832	18K	R53	1	1	1	1	1	
93	066-839	560	R29,46,93	3	3	3	3	3	
94	066-846	30K	R47	1	1	1	1	1	
95	066-847	33K	R37	1	1	1	1	1	
96	066-849	100K	R52,54,81,97	4	4	4	4	4	
97	066-855	39	R25,26	2	2	2	2	2	
98	066-856	15K	R48	1	1	1	1	1	
99	066-865	12K	R49	1	1	1	1	1	
100	066-872	360	R19,22	2	2	2	2	2	
101	066-873	20K	R86,129	2	2	2	2	2	
102	066-938	47	R85,98,131,132,147,152	6	6	6	6	6	
103	076-004	180	R14,15,113,114	4	4	4	4	-	
104	076-045	RESISTOR, C.F., 75 OHMS, 1/4W, ±5%	R57,79,153	3	3	3	3	3	
105	066-667	RESISTOR, C.F., 3K OHMS, 1/4W, ±5%	R2,61,94,119,141				5	5	
106	066-824	RESISTOR, C.F., 1.5K OHMS, 1/4W, ±5%	R76,82,83,100,101,111,144,149				8	8	
107	066-826	RESISTOR, C.F., 2K OHMS, 1/4W, ±5%	R1,16,30				3	3	
108	062-624	RESISTOR, M.F., 1K OHMS, 1/4W, ±1%	R33-36	4	4	4	-	-	
109	062-814	44.2	R160	1	1	1	1	1	
110	062-822	51.1	R107	1	1	1	1	1	
111	062-836	75	R164,165	2	2	2	2	2	
112	062-847	100	R108,162	2	2	2	2	2	
113	062-863	147	R95	1	1	1	1	1	
114	062-877	221	R44,69,70,103,105,125,126	7	7	7	7	7	
115	062-878	226	R67,71,123,128	4	4	4	4	4	
116	062-887	332	R39	1	1	1	1	1	
117	062-901	475	R68,72,92,124,127	5	5	5	5	5	
118	062-948	2.55K	R7,8	2	2	2	2	2	
119	062-968	RESISTOR, M.F., 4.99K OHMS, 1/4W, ±1%	R9,10	2	2	2	2	2	
120	062-882	274	R59				1	1	
121	062-906	549	R58				1	1	
122	062-933	RESISTOR, M.F., 1.54K OHMS, 1/4W, ±1%	R11				1	1	
123	044-927	RESISTOR, VAR., 500 OHMS	R106	1	1	1	1	1	

LM-1464232

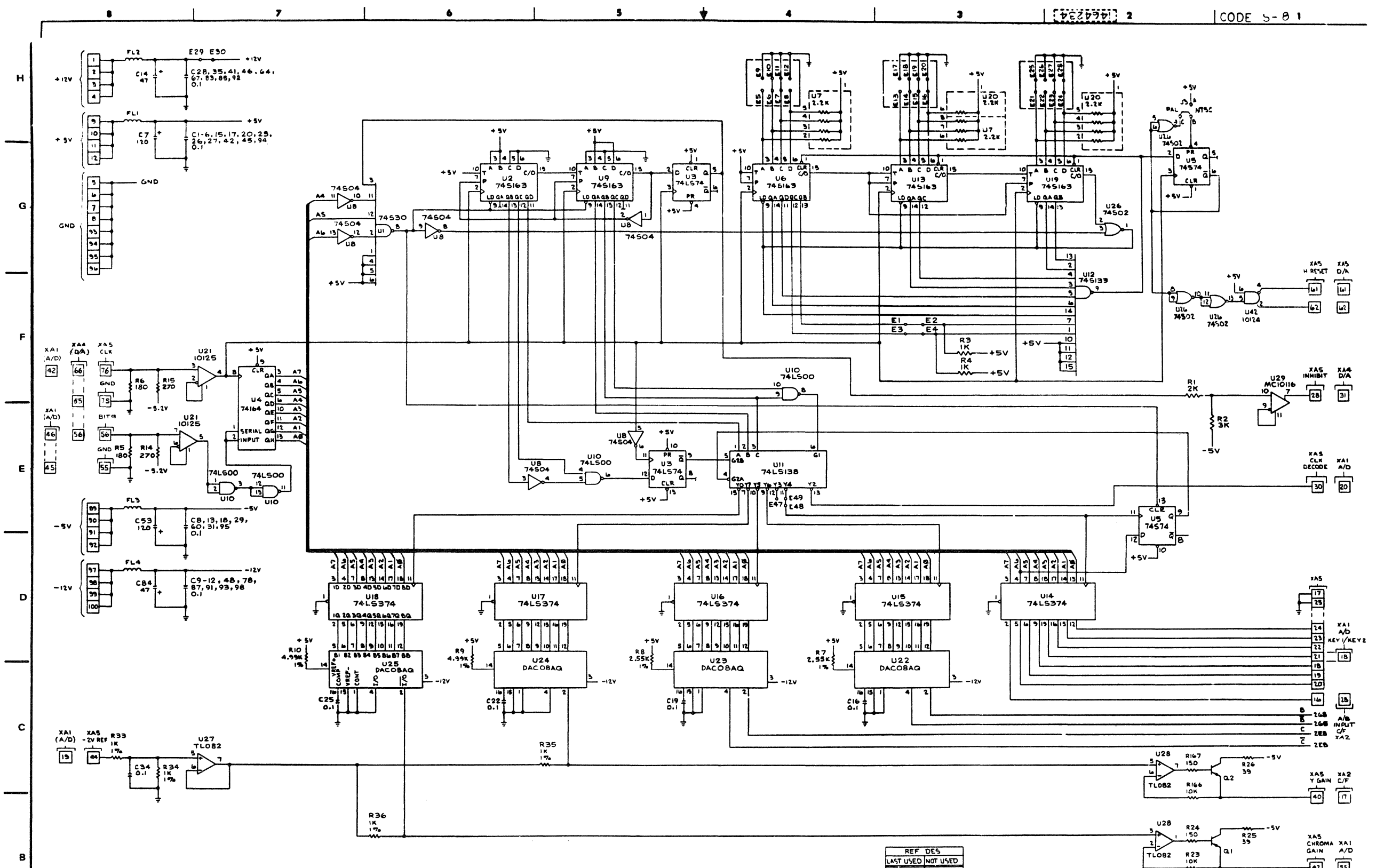
AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1464232	REV K										
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER													
				-01	-02	-03	-04	-05									
124	044-941	RESISTOR, VAR., 100 OHMS	R109	1	1	1	1	1									
125	058-610	RESISTOR, VAR., 20K OHMS	R80,87,121	3	3	3	3	3									
126																	
127	932-035	SHIELDING BEAD, .118 LG	BASE OF:Q27,28,30,31	4	4	4	4	4									
128																	
129	602-044	SHORTING PLUG, RED	J1,2	2	2	2	-	-									
130	602-044	SHORTING PLUG, RED	J1-3				3	3									
131	187-354	TERMINAL, PUSH-IN	TP1-6	6	6	6	6	6									
132																	
133	560-471	TRANSFORMER, RF	T1-3	3	3	3	3	3									
134																	
135	014-780	TRANSISTOR, NPN, MPS6514	Q3-6,8-16,18,19 21-24,27,28,30,31	23	23	23	23	23									
136	014-781	TRANSISTOR, PNP, MPS6518	Q1,2,7,17,20, 25,26,29	8	8	8	8	8									
137																	
138	143-981	CONN. SIGNAL CIRCUIT, JACK, P.C. TIP	REF: J1A,B,C J2A,B,C	6	6	6	-	-									
139	143-981	CONN. SIGNAL CIRCUIT, JACK, P.C. TIP	REF: J1-A,B,C,J2-A, B,C,J3-A,B,C				9	9									
140																	
141	062-624	RESISTOR, M.F., 1K OHMS, 1/4W, ±1%	R12,33-36				5	5									
142																	
143	600-036	SLEEVING, TEFLON, .035 ID					AR	AR									
144	615-004	WIRE, SOLID, UNINSULATED, 24 AWG					AR	AR									
145	616-569	CABLE, COAXIAL, 75 OHM		AR	AR	AR	AR	AR									
146		WIRE, STRD, INS, 24 AWG		AR	AR	AR	AR	AR									
147																	
148	283-105	SPACER		1	1	1	1	1									
149																	
150	473-324	SCREW, PAN HD., XREC, 4-40 X .250 LG		5	5	5	5	5									
151	473-326	SCREW, PAN HD., XREC, 4-40 X .375 LG		1	1	1	1	1									
152	302-395	STRAP, CABLE, MOUSE TAIL					9	9									
153	501-008	WASHER, PLAIN, #4		1	1	1	1	1									
154	501-169	WASHER, PLAIN, SM PATTERN, #4		5	5	5	5	5									
155	506-011	WASHER, BOWED		1	1	1	1	1									
156																	
157	066-661	RESISTOR, C.F., 120 OHMS, 1/4W, ±5%	R158,159						2								
158	066-814	RESISTOR, C.F., 270 OHMS, 1/4W, ±5%	R14,15						2								
159	076-004	RESISTOR, C.F., 180 OHMS, 1/4W, ±5%	R5,6,113,114						4								

LM-1464232



VIDEO OUTPUT PROC.
 PWA NO. []
 SCHEM. NO. []
 A/W E

Assembly No. 1464232-05K.
 Video Output Processor PWA, A5, PAL



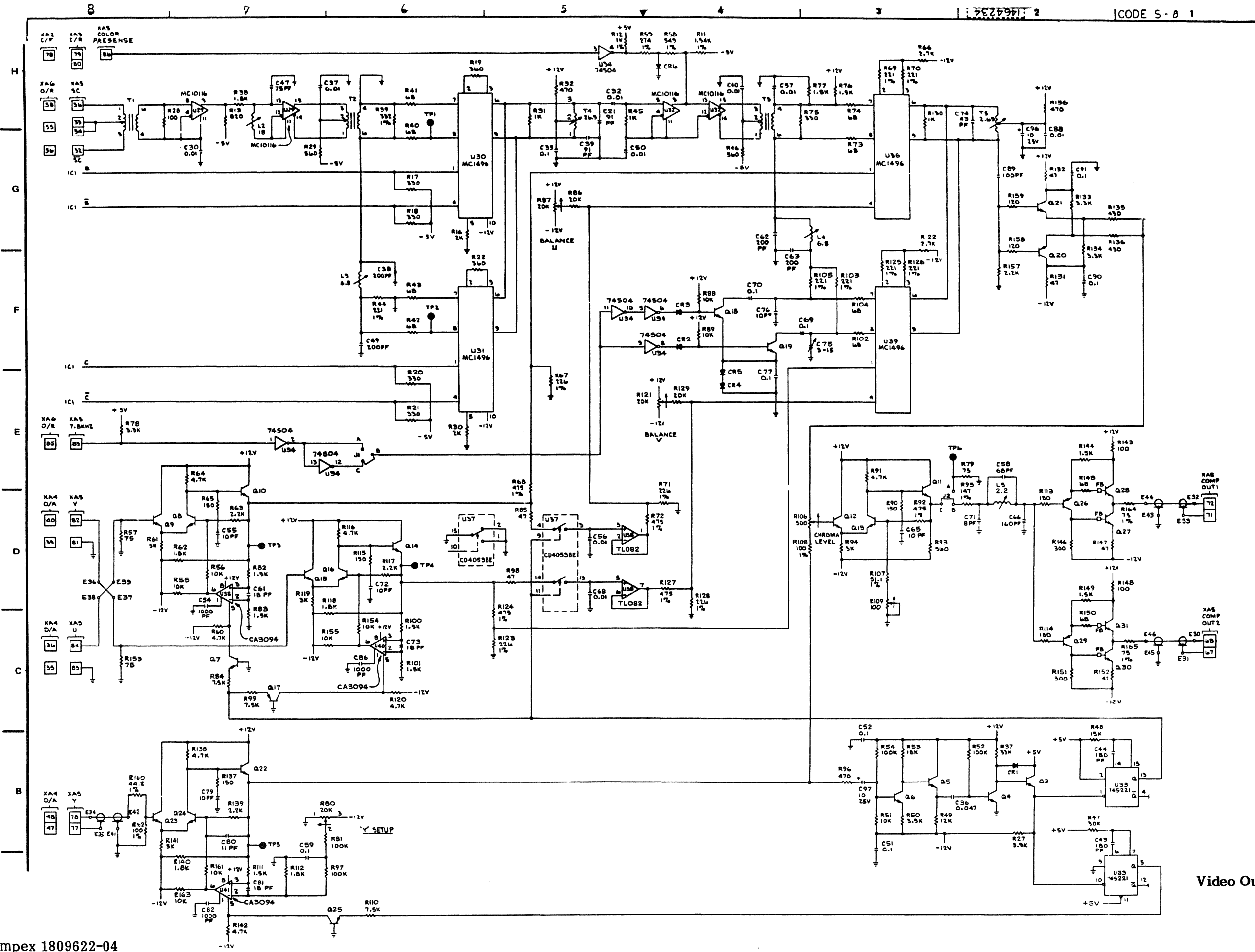
- NOTES: UNLESS OTHERWISE SPECIFIED
1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 3. DIODES ARE CD45B.
 4. NPN TRANSISTORS ARE MPS6514.
 5. PNP TRANSISTORS ARE MPS6518.
 6. INDUCTANCE VALUES ARE IN MICROMHENRIES.

I.C. LIST										
REF. DES.	U1	U2, 6, 9, 13, 19	U5	U8, 34	U10	U11	U4	U14-18	U21	U42
AMPEX P/N	589-844	589-850	589-846	589-838	589-813	589-823	590-535	590-506	000-152	590-514
VENDOR P/N	74530	745163	74574	74504	74LS00	74LS138	74164	74LS374	MC10125	MC10124
VOLTAGE PIN	+5V (14)	+5V (16)	+5V (14)	+5V (14)	+5V (14)	+5V (16)	+5V (14)	+5V (20)	+5V(9), -5V(8)	-5V (8)
GROUND PIN	(7)	(8)	(7)	(7)	(7)	(8)	(7)	(10)	(16)	(16)

REF. DES.	U22, 23, 24, 25	U26	U29, 32	U30, 31, 36, 39	U27, 28, 38	U33	U35, 40, 41	U37	U7, 20	U3	U12
AMPEX P/N	590-734	587-126	590-543	586-959	590-602	590-616	590-991	590-450	039-312	589-820	590-923
VENDOR P/N	DAC080A	74502	MC10116	MC14566	TLO82	74221	CA3094AT	CD4055BE	2.2K SIP	74LS74	745133
VOLTAGE PIN	+5V(15), -12V(3)	+5V (14)	-5V (8)		+12V(8), -12V(4)	+5V (16)	+12V(7), -12V(4)	-5V (7), +5V(16)	+5V (1)	+5V (14)	+5V (16)
GROUND PIN		(7)	(1, 16)			(8)		(8, 16)		(7)	(8)

REF DES	LAST USED	NOT USED
C9B		
CRU		
E49		
FL4		
J5		
L5		
Q31		
K167		
T5		
TP6		
U42		L1

Schematic No. 1464234E.
Video Output Processor PWA, A5, PAL
(Sheet 1 of 2)




Schematic No. 146234E.
 Video Output Processor PWA, A5, PAL
 (Sheet 2 of 2)

ITEM NO.	PART NUMBER	D	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER															
					-03															
1																				
2																				
3	1420371		SCHEMATIC		J															
4																				
5																				
6	1374388-AS		INDUCTOR VARIABLE, 22uH	L6,8	2															
7																				
8	1400004-01		HANDLE EXTRACTOR		1															
9																				
10	1403221-01		TRANSFORMER	T1	1															
11																				
12	1420404-01		SHIELD		1															
13																				
14	1462928-AT		LABEL, PWB EJECTOR, ANALOG		1															
15																				
16																				
17	064-314		CAPACITOR, CER., MONO., 1uF 50V, ±20%	C8	1															
18	064-652		.01uF	C43	1															
19	064-653		CAPACITOR, CER., MONO., .1uF, 50V, ±20%	C1,3,10,17,18,19,21,22,25,26,28,30,31,36,37,38,41,43,49,51,53	21															
20																				
21	034-219		CAPACITOR, MICA, 120pF, 500V, ±1%	C20	1															
22	034-222		100pF, 500V	C27	1															
23	034-250		600pF, 300V	C46	1															
24	034-252		82pF, 500V	C32,34	2															
25	034-260		110pF	C15	1															
26	034-253		330pF	C11	1															
27	034-367		91pF	C16,35	2															
28	034-543		240pF ±1%	C7	1															
29	034-759		15pF, 500V, ±.5pF	C14	1															
30	034-287		CAPACITOR, MICA, 300pF, 500V, ±1%	C47,55	2															
31																				
32																				
33	056-022		CAPACITOR, MICA, 6.8pF, 500V, ±.5pF	C6	1															
34	056-291		470pF ±1%	C42	1															
35	056-412		36pF ±.5pF	C33,54	2															
36	056-603		CAPACITOR, MICA, 47pF, 500V, ±.5pF	C12	1															

LM-1420369

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS			LM-1420369 SHEET 2 OF 5	REV K
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER					
				-03					
37	017-164	CRYSTAL UNIT, 3.579545 MHZ	Y1	1					
38									
39	013-599	DIODE, CD458	CR1-7	7					
40	581-555	DIODE VARACTOR, MV3103	CR12	1					
41	013-723	DIODE, FD777	CR8-11	4					
42	051-770	FERRITE CHOKE	FL1-4	4					
43									
44	051-872	INDUCTOR, FIXED, 22uF, ±5%	L1	1					
45									
46	068-008	INDUCTOR, FIXED, 68uH, ±10%	L2	1					
47	068-059	36uH, ±5%	L4,5	2					
48	068-079	82uH, ±5%	L7	1					
49	068-170	INDUCTOR, FIXED, 30uH, ±5%	L3	1					
50									
51									
52	586-109	INTEGRATED CIRCUIT, 7402	U16	1					
53	590-271	CA3046	U4	1					
54	589-837	74500	U9	1					
55	589-838	INTEGRATED CIRCUIT, 74504	U5	1					
56									
57									
58	590-327	INTEGRATED CIRCUIT, NE529K	U7,13	2					
59	589-934	74LS221	U2,6	2					
60	590-450	CD4053BE	U12	1					
61	590-329	74LS123	U1	1					
62	589-827	INTEGRATED CIRCUIT, 74LS164	U8	1					
63									
64									
65	590-602	INTEGRATED CIRCUIT, TL082CP	U11,14,15,18	4					
66	590-252	INTEGRATED CIRCUIT, 10216	U17	1					
67	581-784	LED, RED, DIFFUSED	DS1-3	3					
68	041-793	RESISTOR, CARB., COMP., 10M, 1/4W, ±5%	R72	1					
69	066-663	RESISTOR, C.F., 220 OHMS, 1/4W, ±5%	R43,58,77,78,79	5					
70	066-664	510	R26,49	2					
71	066-665	1K	R10,41,61	3					
72	066-666	2.7K	R73	1					
73	066-667	3.0K	R5,30,33,50,63	5					
74	066-668	4.7K	R19,70	2					
75	066-673	1M	R40,60	2					
76	066-675	1.8K	R16,22	2					
77	066-689	2.2K	R31,34,35,42,51	5					
78	066-712	22K	R7,46,48	3					
79	066-717	47K	R44	1					
80	066-718	RESISTOR, C.F., 5.6K OHMS, 1/4W, ±5%	R64	1					
81									

LM-1420369

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1420369 SHEET 3 of 5	RFV K
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER			
				-03			
82	066-812	RESISTOR, C.F., 100 OHMS, 1/4W, ±5%	R17,18,29,53, 55,59	6			
83	066-813	150	R12,21	2			
84	066-818	470	R36	1			
85	066-819	620	R15	1			
86	066-824	1.5K	R14,45,47,75	4			
87	066-826	2.0K	R9,13,27,28	4			
88	066-830	10K	R6,8,23	3			
89	066-835	82	R3,71	2			
90	066-838	330	R57,68	2			
91	066-839	560	R52,54,56	3			
92	066-840	680	R32,69	2			
93	066-842	5.1K	R11	1			
94	066-829	6.8K	R2	1			
95	066-846	30K	R1	1			
96	066-856	15K	R24,25	2			
97	066-863	3.6K	R65	1			
98	066-849	100K	R4,37,66,67	4			
99							
100	066-913	220K	R62	1			
101	076-054	430K	R20	1			
102	066-827	3.9K	R76	1			
103	066-711	7.5K	R74	1			
104	066-912	RESISTOR, C.F., 82K OHMS, 1/4W, ±5%	R38	1			
105							
106	560-471	TRANSFORMER, T1-1T	T2	1			
107							
108	014-780	TRANSISTOR, NPN MPS6514	Q1,3-7	6			
109	014-781	TRANSISTOR, PNP MPS6518	Q2	1			
110							
111	187-354	TERMINAL, PUSH-IN 	TP1-4	4			
112							
113							
114							
115	473-324	SCREW, PAN HD., X-REC, 4-40 X .250 LG		5			
116	473-326	SCREW, PAN HD., X-REC, 4-40 X .375 LG		1			
117							
118	283-105	SPACER UNTHD., .140 ID X .125 LG		1			
119							
120	501-008	WASHER, PLAIN, #4, .125 ID		1			
121	501-169	WASHER, PLAIN, SM PATTERN, #4, .125 ID		5			
122							
123	506-011	WASHER, BOWED, .257 MIN ID		1			
124							
125							
126							

LM-1420369

AMPEX

Ampex Corporation
REDWOOD CITY, CALIFORNIA

CODE IDENT NO
92739

LIST OF MATERIALS

LM-1420369
SHEET 4 of 5

REV
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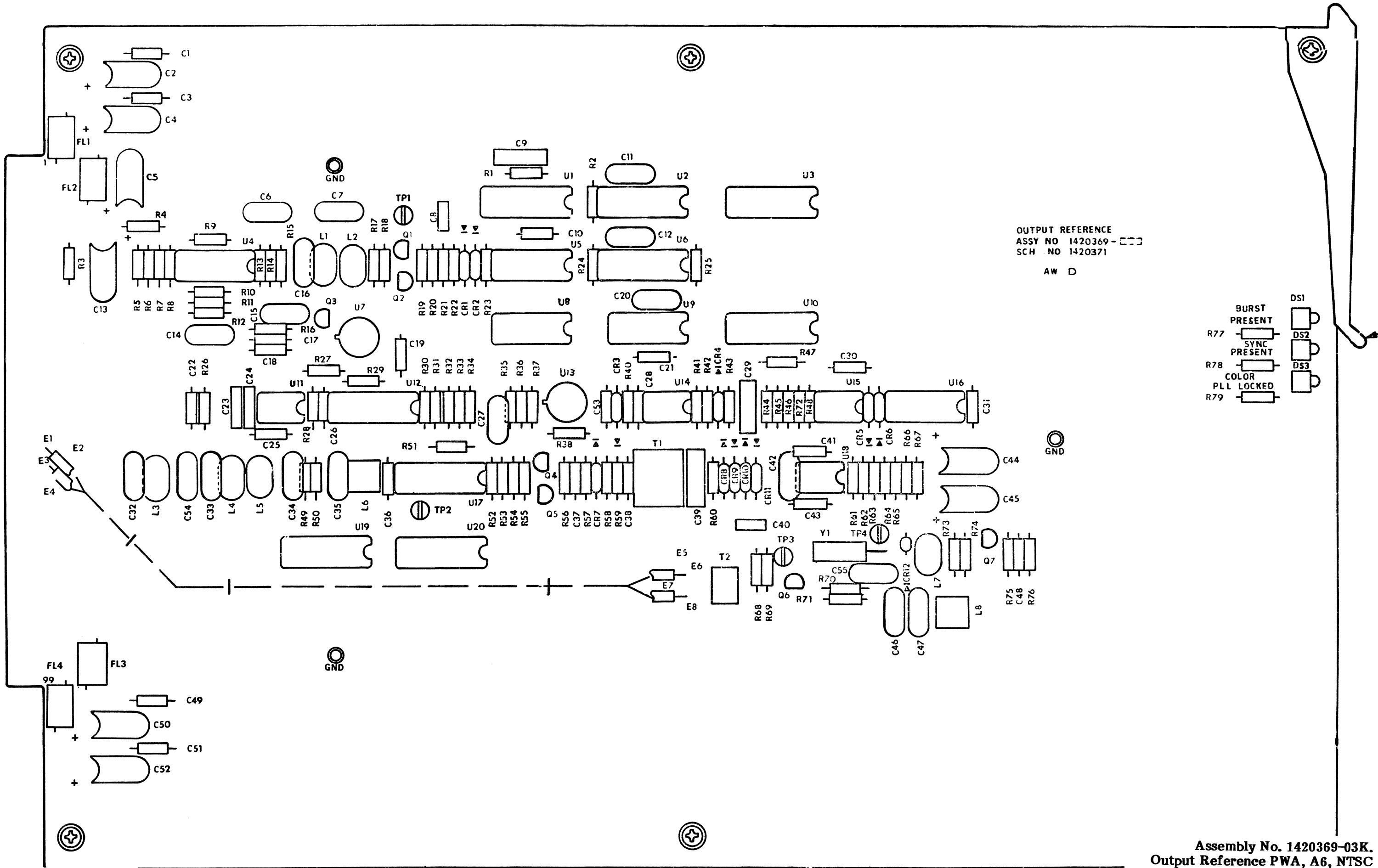
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-03																
127	582-329	I.C., MTG HDW., 8 PIN	REF:U11,14,15,18	4																
128	582-330	14 PIN	REF:U4,5,8,9,16	5																
129	582-331	I.C., MTG HDW., 16 PIN	REF:U1,2,6,12,17	5																
130																				
131																				
132	302-395	STRAP, CABLE		3																
133																				
134	616-569	CABLE, COAX		A/R																
135																				
136	037-892	CAPACITOR, TANT., 47uF, 20V, ±20%	C2,5,13,44,45,52	6																
137	037-965	CAPACITOR, TANT., 120uF, 10V, ±20%	C4,50	2																
138																				
139	035-596	CAPACITOR, MYLAR, .082uF, 50V, ±5%	C39	1																
140	035-598	.047uF	C9	1																
141	035-734	.01uF	C40	1																
142	035-893	.1uF	C29	1																
143	055-133	CAPACITOR, MYLAR, 2200pF, 50V, ±5%	C23,24	2																
144																				
145																				
146	435-122	CLIP, CRADLE	REF:Y1	1																
147	460-011	RIVET, OVAL HD	REF:Y1	2																

NOTES:

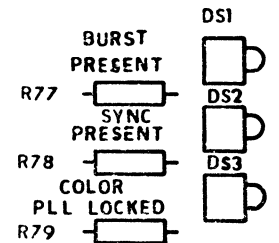


AW B MAY USE R72 & TP1-4
AW C AND ABOVE WILL USE R72 & TP1-4.

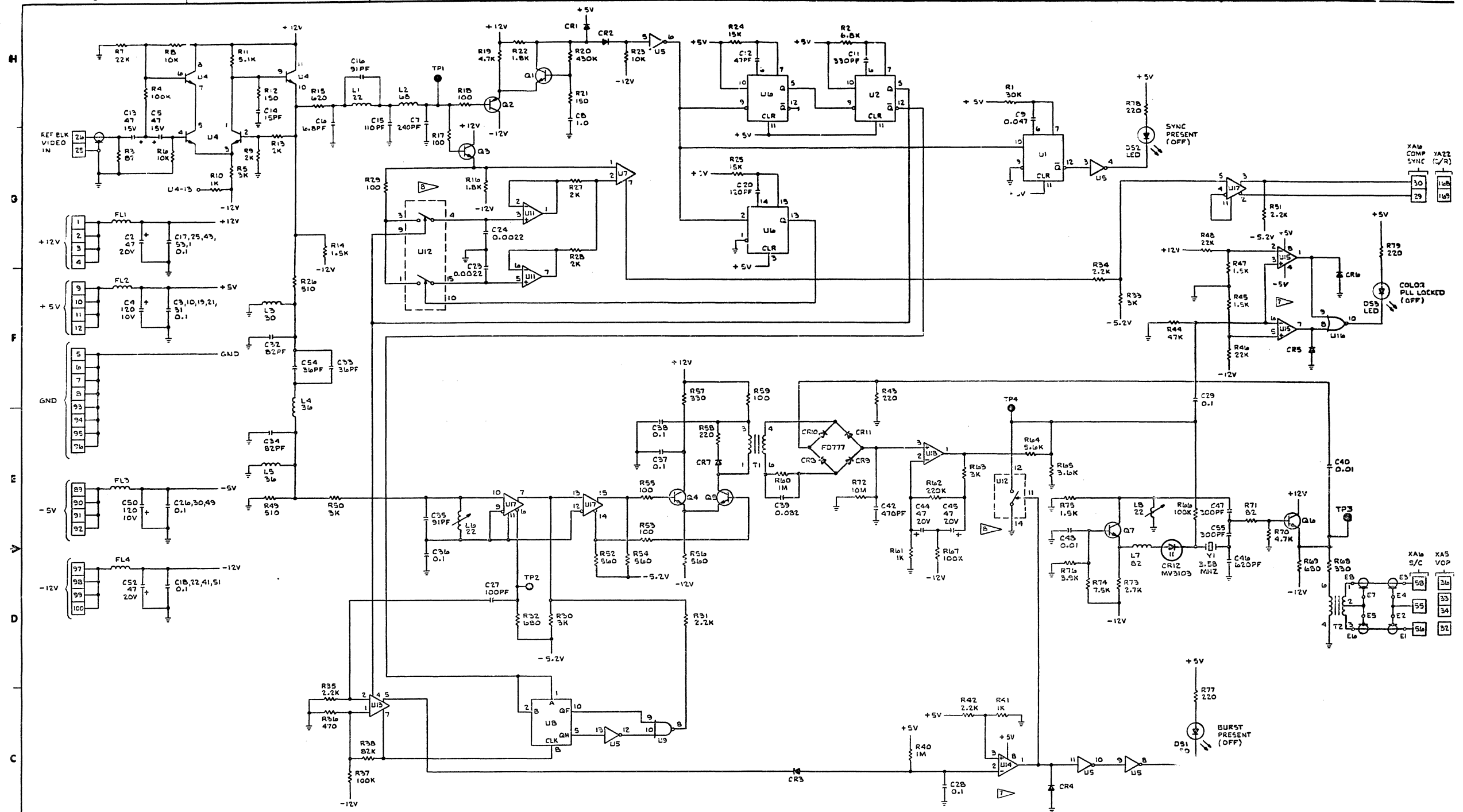
LM-1420369



OUTPUT REFERENCE
 ASSY NO 1420369-
 SCH NO 1420371
 AW D



Assembly No. 1420369-03K.
 Output Reference PWA, A6, NTSC



NOTES: UNLESS OTHERWISE SPECIFIED -

1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%. (R)
 2. CAPACITANCE VALUES ARE IN MICROFARADS. (C)
 3. NPN TRANSISTORS ARE P/N Q14-780, MPS6514.
 4. PNP TRANSISTORS ARE P/N Q14-781, MPS6518.
 5. INDUCTANCE VALUES ARE IN MICROHENRIES. (L)
 6. DIODES ARE CD45B.
- 7 I.C. VOLTAGE PER TABLE.
8 STATIC SENSITIVE SPECIAL HANDLING REQUIRED PER HEI-1.

REF. DESIG.	I.C. LIST						REF. DESIG.	
	U1	U2, 6	U4	U5	U7, 13	U12	LAST USED	NOT USED
AMPEX P/N	590-329	589-934	590-721	589-838	590-327	590-450	C55	
VENDOR P/N	74LS123	74LS221	CA3046	74504	NE529K	CD4053BE	CR12	
VOLTAGE PIN	+5V (16)	+5V (16)	—	+5V (14)	+5V(10),+2(1)	+5V(16)-5V(7)	D53	
GROUND PIN	(8)	(8)	—	(7)	(16)	(8, 6)	EB	
REF. DESIG.	U8	U9	U11, 8	U16	U17		R79	R39
AMPEX P/N	589-827	589-837	590-602	586-109	590-252		T2	
VENDOR P/N	74LS164	74500	TLOB2CP	7402	10216		TP4	
VOLTAGE PIN	+5V (14)	+5V (14)	+12V(8)-12(4)	+5V (14)	-5V (8)		U18	
GROUND PIN	(7)	(7)	—	(7)	(1, 16)		Y1	

Schematic No. 1420371J.
Output Reference PWA, A6, NTSC

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-01	-02	-03														
1					1	2														
2																				
3	1464231	SCHEMATIC	(-)		C	F														
4																				
5	1374388-AM	INDUCTOR, VARIABLE, 10uH	L1	1	1	1														
6	1374388-AR	INDUCTOR, VARIABLE, 18uH	L3	1	1	1														
7																				
8	1400004-01	HANDLE, EXTRACTOR		1	1	1														
9																				
10	1403221-01	TRANSFORMER	T1	1	1	1														
11	1420404-01	SHIELD		1	1	1														
12	1462928-AT	LABEL, PWB, EJECTOR, ANALOG		1	1	1														
13																				
14	064-314	CAPACITOR, CER., MONO, 1uF, 50V	C10	1	1	1														
15	064-319	CAPACITOR, CER., MONO, 4.7uF, 50V	C5	1	1	1														
16	064-652	CAPACITOR, CER., TUB, .01uF, 50V, ±20%	C29,41,54,62,63,68	6	6	6														
17	064-653	CAPACITOR, CER., TUB, .1uF, 50V, ±20%	C4,7,9,13,16-18,20,23,25-28,30-40,42-44,48-50,52,53,55,57,59-61	37	37	37														
18																				
19	034-215	CAPACITOR, MICA, 10pF 500V, ±1%	C3	1	1	1														
20	034-220	150pF,	C11	1	1	1														
21	034-222	100pF,	C6,19,24	3	3	3														
22	034-225	220pF,	C12,45	2	2	2														
23	034-367	91pF,	C14	1	1	1														
24	034-371	510pF,	C64	1	1	1														
25	034-543	240pF,	C65,67	2	2	2														
26	056-291	CAPACITOR, MICA, 470pF, 500V, ±1%	C56	1	1	1														
27	034-297	CAPACITOR, MICA, 180pF, 500V, ±1%	C15	1	1	1														
28																				
29																				
30	035-893	CAPACITOR, MYLAR, .1uF, 50V, ±5%	C8	1	1	1														
31	055-133	2200pF,	C21,22,58	3	3	3														
32	055-166	CAPACITOR, MYLAR, .001uF, 50V, ±5%	C46,47,51	3	3	3														
33																				
34	037-892	CAPACITOR, TANT, 47uF, 20V, ±20%	C1,69	2	2	2														
35	037-965	CAPACITOR, TANT, 120uF, 10V, ±20%	C2,70	2	2	2														
36																				

LM-1464229

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1464229	REV K
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER			
				01	02	03	
37	017-264	CRYSTAL, UNIT, 4.43361875 MHZ	Y1	1	1	1	
38							
39	013-599	DIODE, CD458	CR1,6-11	7	7	7	
40	013-723	DIODE, FD777	CR2-5	4	4	4	
41	581-555	DIODE, VARACTOR, MV3103	CR12	1	1	1	
42	013-166	DIODE, ZENER, IN746A	VR1	1	1	1	
43							
44	051-770	FERRITE - CHOKE	FL1-4	4	4	4	
45							
46	068-124	INDUCTOR, FIXED, 62uH, ±5%	L7	1	1	1	
47	540-006	INDUCTOR, FIXED, 100uH, ±5%	L2	1	1	1	
48							
49	000-146	INTEGRATED CIRCUIT, NE529NB	U5,8,11	3	3	3	
50	589-813	74LS00	U10,19	2	2	-	
51	589-814	74LS04	U2,13	2	2	2	
52	589-820	74LS74	U18	1	1	1	
53	589-934	74LS221	U3,20	2	2	2	
54	590-252	10216	U17	1	1	1	
55	590-329	74LS123	U4	1	1	1	
56	590-450	CD4053	U7,15	2	2	2	
57	590-602	TLO82CP	U6,9,12,14, 16,21,22	7	7	7	
58	590-721	INTEGRATED CIRCUIT, CA3046	U1	1	1	1	
59	587-626	INTEGRATED CIRCUIT, 74S02	U10	-	-	1	
60	589-813	INTEGRATED CIRCUIT, 74LS00	U19	-	-	1	
61							
62	581-784	LED, RED, DIFFUSED	DS1-3	3	3	3	
63							
64	041-793	RESISTOR, CARB, COMP, 10M, 1/4W, ±5%	R5,55	2	2	2	
65							
66	066-652	RESISTOR, C.F., 470K OHMS, 1/4W, ±5%	R4,43	2	2	2	
67	066-663	220	R42	1	1	1	
68	066-665	1K	R9,27,54,57, 66,67,86	7	7	7	
69	066-666	2.7K	R91	1	1	1	
70	066-668	4.7K	R2,63,89	3	3	3	
71	066-673	1M	R59,81	2	-	-	
72	066-675	1.8K	R30,84	2	2	2	
73	066-677	68	R51	1	1	1	
74	066-689	2.2K	R8,36,58,62,83	5	5	5	
75	066-711	7.5K	R92	1	1	1	
76	066-712	22K	R20,48,49,53,72	5	5	5	
77	066-715	1.2K	R23	1	1	1	
78	066-717	47K	R44,74	2	2	2	
79	066-718	5.6K	R14,71	2	2	2	
80	066-720	3.3K	R24	1	1	1	
81	066-812	RESISTOR, C.F., 100 OHMS, 1/4W, ±5%	R7,13,15,16,21,26, 29,31,35,38,41	11	11	11	

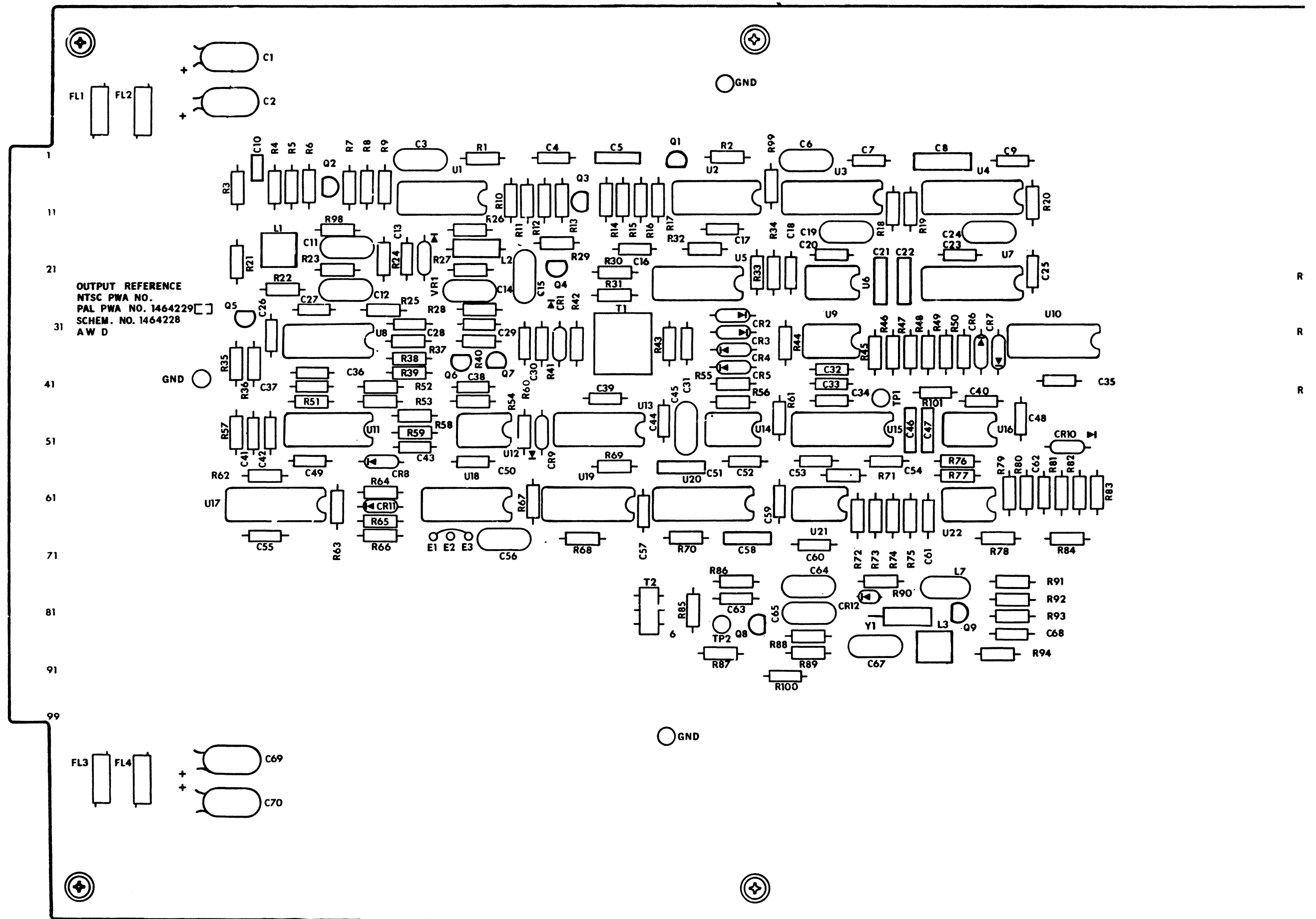
LM-1464229

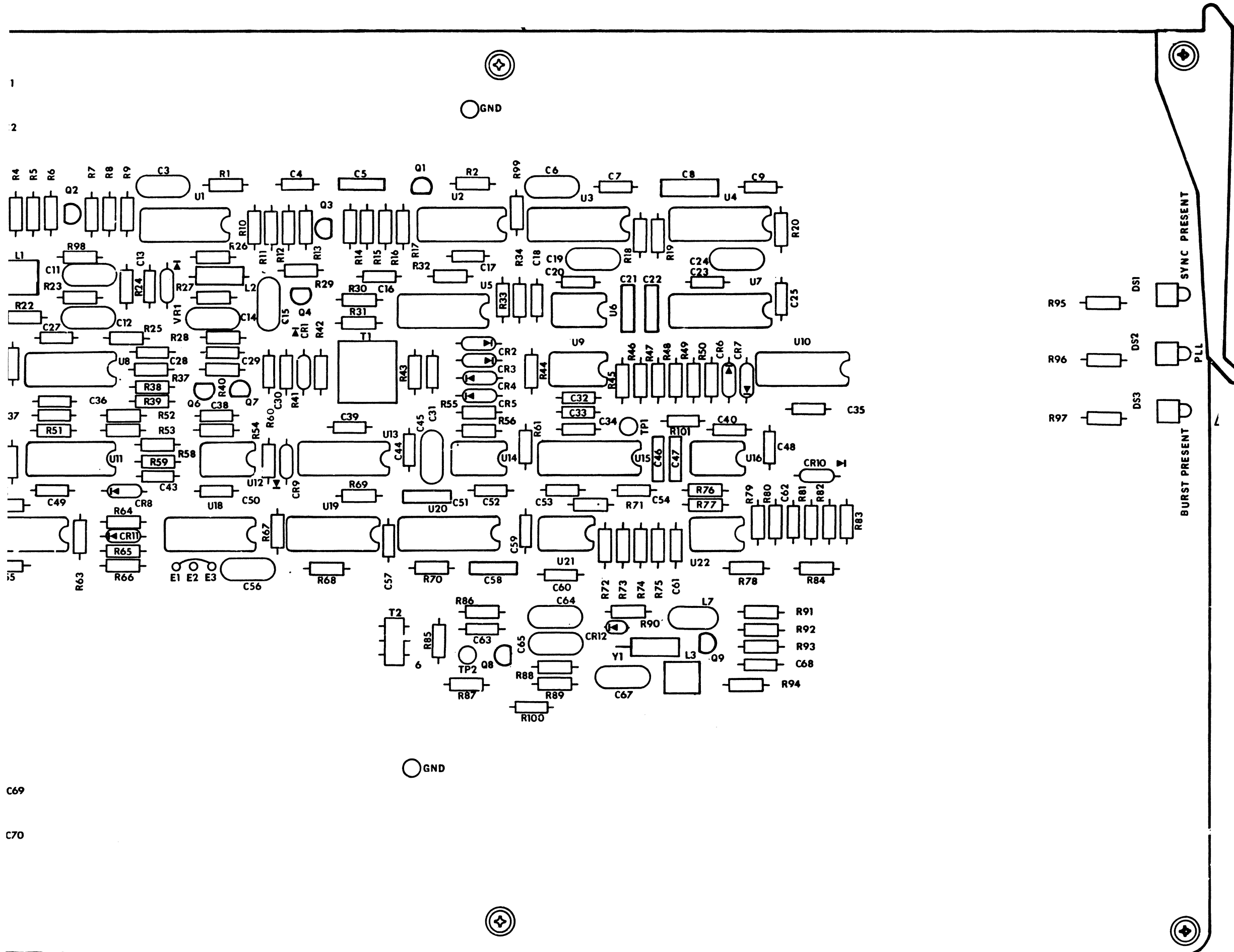
AMPEX | Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS			LM-1464229	REV K
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER			
				101	102	103	
82	066-818	RESISTOR, C.F., 470 OHMS, 1/4W, ±5%	R45,46,60,82	4	4	4	
83	066-821	820	R39	1	1	1	
84	066-824	1.5K	R40,47,50,64, 65,94,98	7	7	7	
85	066-826	2.0K	R33,34	2	2	2	
86	066-827	3.9K	R93	1	1	1	
87	066-830	10K	R28,73,78	3	3	3	
88	066-835	82	R88	1	1	1	
89	066-838	330	R37,85	2	2	2	
90	066-839	560	R95-97	3	3	3	
91	066-840	680	R87	1	1	1	
92	066-849	100K	R17,90	2	2	2	
93	066-852	62K	R19	1	1	1	
94	066-856	15K	R18,69	2	2	2	
95	066-863	3.6K	R100	1	1	1	
96	066-864	13K	R99	1	1	1	
97	066-938	47	R6,22,25,32, 52,56,61,68	8	8	8	
98	066-974	150K	R75	1	1	1	
99	076-009	RESISTOR, C.F., 68K OHMS, 1/4W, ±5%	R76,77	2	2	2	
100	066-673	RESISTOR, C.F., 1M OHMS, 1/4W, ±5%	R59,81	-	2	2	
101	041-801	RESISTOR, COMP., 22 MEG, 1/4W, ±5%	R101		1	1	
102							
103	042-379	RESISTOR, M.F., 5.90K OHMS, 1/4W, 1%	R10	1	1	1	
104	062-983	10K	R79,80	2	2	2	
105	062-836	75	R3	1	1	1	
106	066-078	3.24K	R1	1	1	1	
107	066-324	442	R12	1	1	1	
108	066-656	30.1K	R70	1	1	1	
109	076-157	RESISTOR, M.F., 1.96K OHMS, 1/4W, 1%	R11	1	1	1	
110							
111	932-035	SHIELDING BEAD, .118 LG	BASE OF: Q3,4	2	2	2	
112	014-780	TRANSISTOR, NPN, MPS6514	Q1,4-9	7	7	7	
113	014-781	TRANSISTOR, PNP, MPS6518	Q3	1	1	1	
114	580-837	TRANSISTOR, JFET, J309	Q2	1	1	1	
115	187-354	TERMINAL, PUSH-IN	TP1,2	2	2	2	
116	560-471	TRANSFORMER, T1-IT	T2	1	1	1	
117	302-395	STRAP, CABLE		3	3	3	
118							
119	435-122	CLIP, CRADLE	REF:Y1	1	1	1	
120	460-011	RIVET, OVAL, HD	REF:Y1	2	2	2	
121	283-105	SPACER, UNTHD, PLAIN, .140 ID X .125 LG				1	
122	473-324	SCREW, PAN HD, X-REC, 4-40 X .250 LG		5	5	5	
123	473-326	SCREW, PAN HD, X-REC, 4-40 X .375 LG		1	1	1	
124							
125	501-008	WASHER, PLAIN, #4, .125 ID		1	1	1	
126	501-169	WASHER, PLAIN, SM. PATTERN, #4, .125 ID		5	5	5	

LM-1464229

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																		
				-01	-02	-03																
127	506-011	WASHER, BOWED, .257 MIN, ID		1	1	1																
128																						
129																						
130																						
131	615-004	WIRE, SOLID, UNINS, 24 AWG			AR	AR																
132	600-036	SLEEVING, TEFLON, FLEXIBLE, .035 ID			AR	AR																
133																						
134																						
135																						

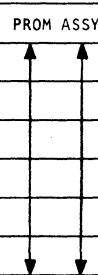
LM-1464229





Assembly No. 1464229-03L.
Output Reference PWA, A6, PAL

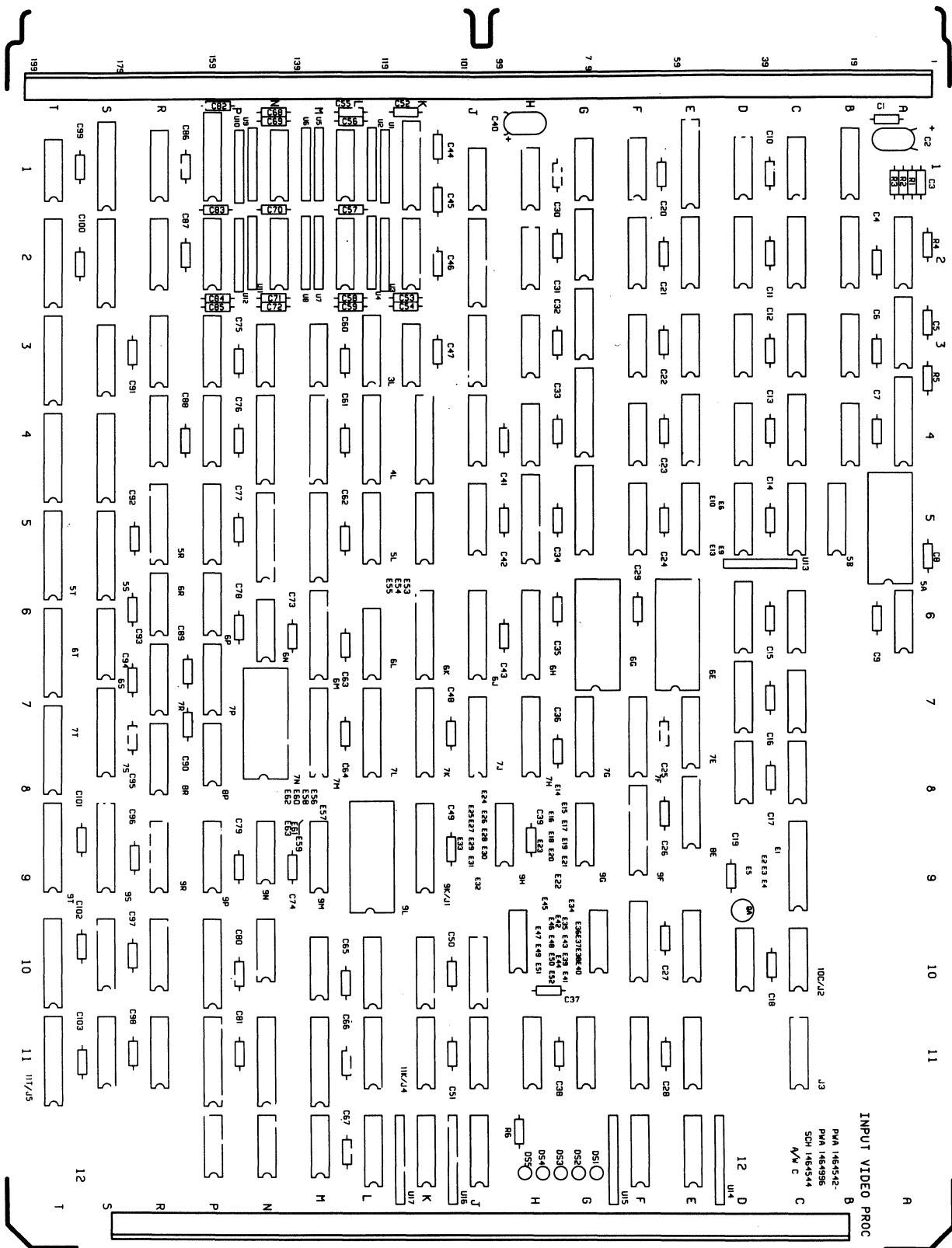
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-01																
1																				
2																				
3	1464544	SCHEMATIC		(-)																
4																				
5	1409670-CE	LABEL		1																
6	1409976-AA	INSULATOR, STIFFENER		1																
7	1409976-AB	INSULATOR, STIFFENER		1																
8	1409997-AA	STIFFENER, PWB		1																
9	1409997-AB	STIFFENER, PWB		1																
10																				
11	1464572-01	PROM ASSY	REF: 589-940 TBP28S42	4G	1															
12	1464573-01		REF: 589-715 2716	5A	1															
13	1464574-01		REF: 589-940 TBP28S42	5G	1															
14	1464575-01		REF: 003-016 PAL16L8	11P	1															
15	1465070-01		REF: 002-887 AM27S191	6E	1															
16	1465071-01		REF: AM27S191	6G	1															
17	1465072-01		REF: AM27S191	7N	1															
18	1465073-01	PROM ASSY	REF: AM27S191	9L	1															
19																				
20																				
21																				
22	064-652	CAPACITOR, CER., .01uF, 50V, ±20%	C3,44,52-54,56-59, 68-72,83-85		17															
23	064-653	CAPACITOR, CER., .1uF, 50V, ±20%	C1,4-39,41-43,45-51, 55,60-67,73-82,86-103		84															
24																				
25	037-965	CAPACITOR, TANT., 120uF, 10V, ±20%	C2,40		2															
26	000-007	INTEGRATED CIRCUIT, 25S10	6L		1															
27	000-128		74S283	5K,L	2															
28	000-152		10125	1L,N,2L,N,3A	5															
29	001-073		10101	1B,2B	2															
30	002-165		74LS684	4S,5S,7S,9S	4															
31	002-181		74F283	7E,8E,10E	3															
32	003-025		2147H-3	10F	1															
33	589-814		74LS04	3E,4D	2															
34	589-820		74LS74	3B,C	2															
35	589-823		74LS138	1R,2R,3G,9M	4															
36	589-827		74LS164	9G,H,10G,H	4															
37	589-837	INTEGRATED CIRCUIT, 74S00	3M,4H,10D,12P		4															



LM-1464542

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1464542 SHEET 2 OF 4	REV —										
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER													
				-01													
38	589-838	INTEGRATED CIRCUIT, 74S04	1C, 6, J, 2H, 3K, 6C, 6R, 7C, 9N, 10C	10													
39	589-839	↑ ↑ 74S08	1D, F, H, 4F, 8P, 12N	6													
40	589-840	74S10	6N	1													
41	589-846	74S74	1T, 3H, N, 8C, 10M, N	6													
42	589-847	74S86	8D	1													
43	589-850	74S163	3R, 4C, E, P, R, 5C, D, E, F, 7P, R, 8R, 10J, K, R, S, 11E, F, G, H, J, K, 11R, S	24													
44	589-935	74LS393	4B, 6A	2													
45	590-227	25S09	2K, 3L, 4J, 5J, 6Q, 7D	6													
46	590-328	74LS32	3D, F	2													
47	590-335	74LS273	1S, 2T, 3T, 4A, T, 5T, 6T, 7T, 9T, 10T, 11M, N, T	13													
48	590-443	74S02	12M	1													
49	590-461	74LS112	2P	1													
50																	
51	590-543	10116	2A	1													
52	590-584	74LS244	2S, 5M	2													
53	590-615	74LS139	5B	1													
54	590-842	74S157	2C, D, E, F, G, 3P, 10L, 11L, 12L	9													
55	590-843	74S85	3S, 6S, 9P, R	4													
56	590-845	74S32	6P	1													
57	590-855	74S374	4K, M, N, 5H, N, 6H, J, K, M, 7K, L, 7M, 9C, F, K, 10P	16													
58	590-868	74S244	1E, K, P, 2J, 4L	5													
59	590-945	74F157	3J	1													
60	590-967	INTEGRATED CIRCUIT, 2148H-3	1 ▷ 5P, R, 7F, G, H, J	6													
61																	
62																	
63																	
64	581-567	LIGHT EMITTING DIODE, RED	DS1-5	5													
65																	
66																	
67	039-223	NETWORK, RESISTOR, 1K OHMS, 8 PIN SIP	U13	1													
68	039-300	↑ ↑ 330 OHMS, 8 PIN SIP	U1, 3, 10, 12	4													
69	039-348	↓ ↓ 1K OHMS, 10 PIN SIP	U14-17	4													
70	039-381	NETWORK, RESISTOR, 56 OHMS, 8 PIN SIP	U2, 4-9, 11	8													
71																	
72																	
73	066-811	RESISTOR, C.F., 51 OHMS, 1/4W, ±5%	R2, 3	2													
74	066-818	RESISTOR, C.F., 470 OHMS, 1/4W, ±5%	R4-6	3													
75	066-838	RESISTOR, C.F., 330 OHMS, 1/4W, ±5%	R1	1													
76																	
77																	
78	119-492	SWITCH, DIP, 16 PIN	12E, F, J, K	4													
79																	
80																	
81																	

LM-1464542



Assembly No. 1464542-01-. Input Video Processor PWA, A1, NTSC

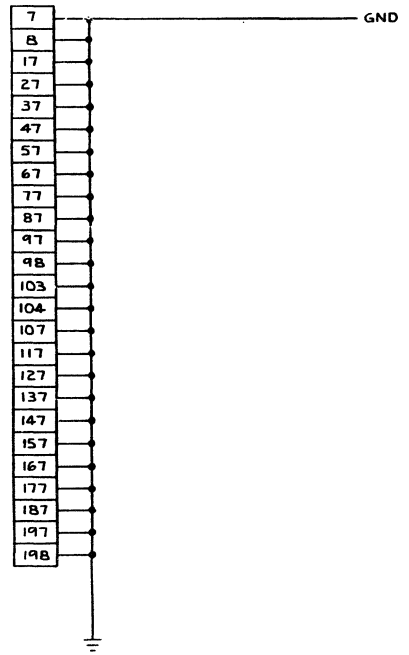
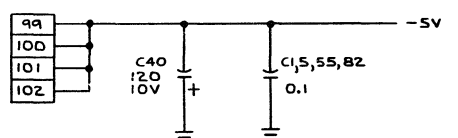
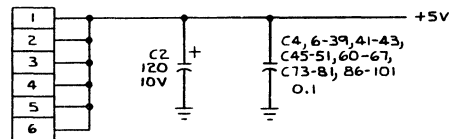
NOTE: UNLESS OTHERWISE SPECIFIED:
 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.

△ STATIC SENSITIVE DEVICE, SPECIAL HANDLING REQUIRED PER AMPEX STANDARD HEI-1.

▲ PROMS USED WITH NTSC PWA 1464542.

▽ PROMS USED WITH PAL PWA 1465074.

REFERENCE DESIGNATIONS		I.C. LIST						I.C. LIST					
LAST USED	NOT USED	REFERENCE DESIGNATION	AMPEX P/N	VENDOR P/N	GND PIN	POWER PINS	REFERENCE DESIGNATION	AMPEX P/N	VENDOR P/N	GND PIN	POWER PINS		
						+5V -5V					+5V -5V		
C103		6L	000-007	25510	8	16	5B	590-615	74LS139	8	16		
D55		5K,L	000-128	74S283	8	16	2C,D,E,F,G,3P,10L,11L,12L	590-842	74S157	8	16		
E63		1L,N,2L,N,3A	000-152	10125	16	8	35,65,9P,R	590-843	74S85	7	14		
R6		1B,2B	001-073	10101	1	16	6P	590-845	74S32	7	14		
U17		4S,5S,7S,9S	002-165	74LS684	10	20	4K,M,N,5H,N,6H,J,K,6M,7K,J,M,9C,F,X,10P	590-855	74S374	10	20		
		7E,8E,10E	002-181	74F283	8	16	1E,K,P,2J,AL	590-868	74S244	10	20		
		10F	003-025	2147H-3	9	18	3J	590-945	74F157	8	16		
		3E,4D	589-814	74LS04	7	14	5P,R,7F,6H,J	590-967	2148H-3	9	18		
		3B,C	589-820	74LS74	7	14							
		1R,2R,3G,9M	589-823	74LS138	8	16							
		9G,H,10G,H	589-827	74LS164	8	16							
		3M,4H,10D,12P	589-837	74S00	7	14							
		1C,G,J,2H,3K,6C,R,7C,9N,10C	589-838	74S04	7	14							
		10F,H,4F,8P,12N	589-839	74S08	7	14							
		6N	589-840	74S10	7	14							
		1T,3H,N,8C,10M,N	589-846	74S74	7	14							
		8D	589-847	74S86	7	14							
		3R,4C,E,P,R,5C,D,E,F,7P,7R,8R,10A,11A,12S,11E,5,6,11J,K,8,5	589-850	74S163	8	16	4G	1464572-01	TBP28542	10	20		
		4B,6A	589-935	74LS393	7	14	5A	1464573-01	2716	12	24		
		2K,3L,4J,5J,6D,7D	590-227	25509	8	16	5G	1464574-01	TBP28542	10	20		
		3D,F	590-328	74LS32	7	14	11P	1464575-01	PAL16LB	10	20		
		1S,2T,3T,4A,T,5T,6T,7T,9T,10T,11M,N,T	590-335	74LS273	10	20	6E	1465070-01	275191	12	24		
		12M	590-443	74S02	7	14	6G	1465071-01	275191	12	24		
		2P	590-461	74LS112	8	16	7N	1465072-01	275191	12	24		
		2A	590-543	10116	1	16	9L	1465073-01	275191	12	24		
		2S,5M	590-584	74LS244	10	20	4G	1465075-01	TBP28542	10	20		
							5A	1465076-01	2716	12	24		
							5G	1465077-01	TBP28542	10	20		



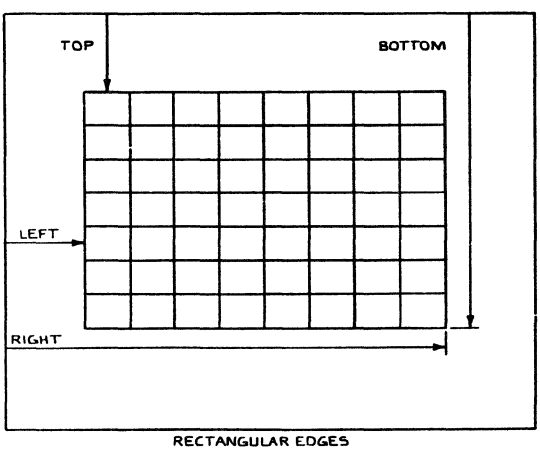
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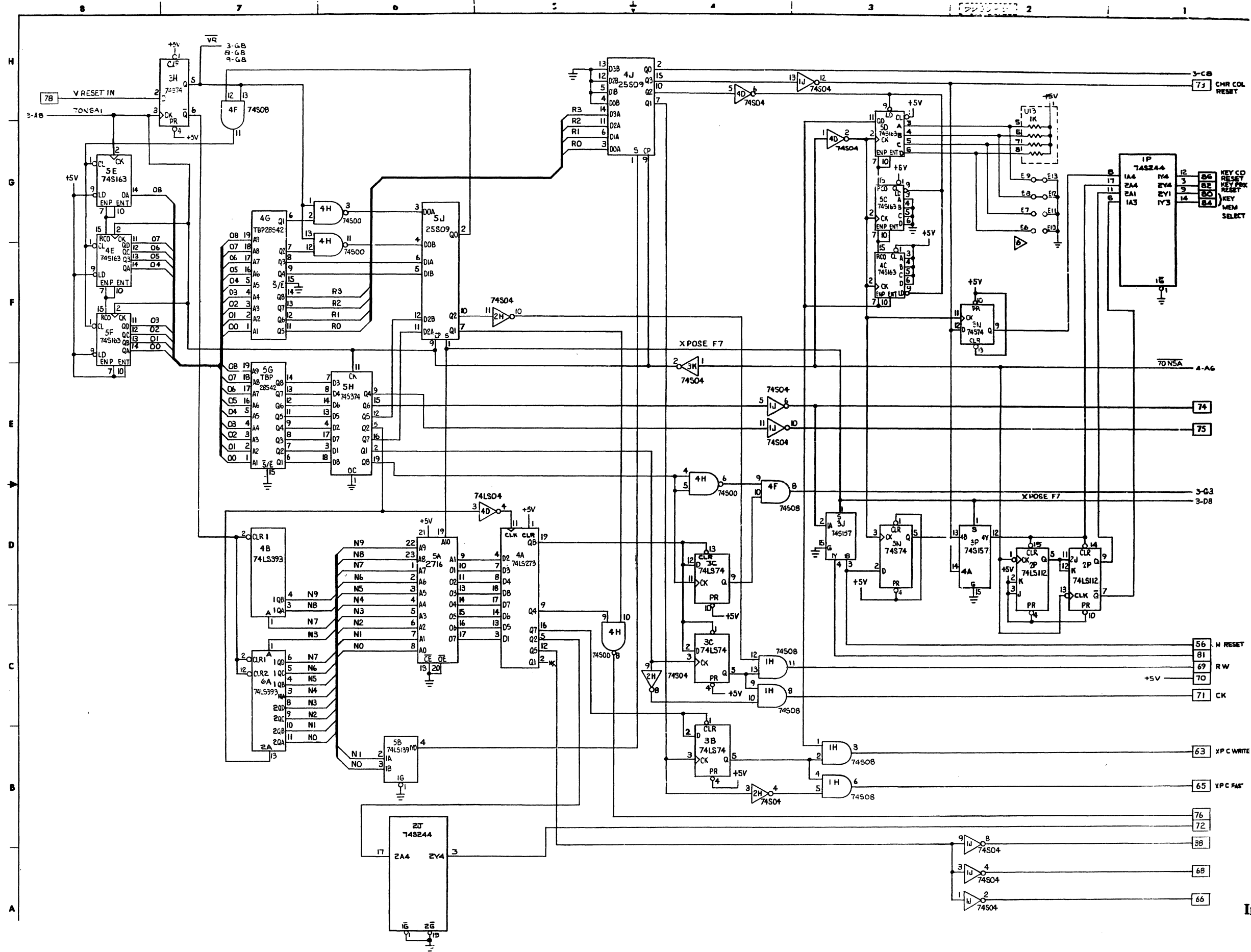
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- VRW VERT. RECT. WINDOW NO CONNECTION
- MWE MOSAIC WINDOW ENABLE HI= BOUNDED BY WINDOW
- MWS MOSAIC WINDOW SENSE HI= INSIDE LO= OUTSIDE
- SWE SOLAR WINDOW ENABLE HI= BOUNDED BY WINDOW
- SWS SOLAR WINDOW SENSE HI= INSIDE LO= OUTSIDE
- P7 MSB OF LUMINANCE
- D7 MSB OF KEY
- EME EXTERNAL MOSAIC ENABLE HI= ENABLE EXTERNAL
- EMS EXTERNAL MOSAIC SENSE HI= INVERT MSB
- PKNY POSTER KEY NOT Y HI= USE KEY MSB

OUTPUTS:

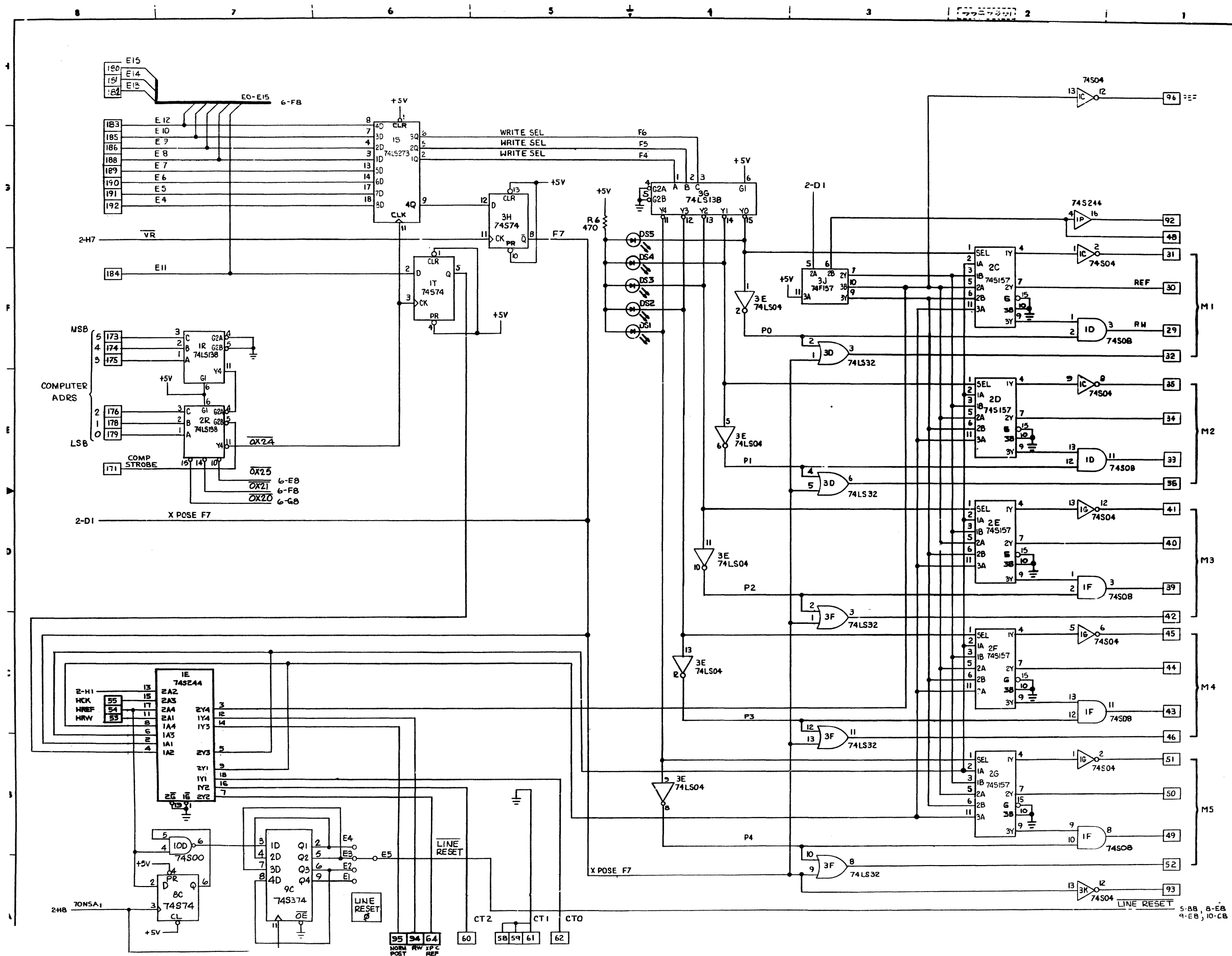
- ESW EXTERNAL SOLAR WINDOW
- EMW EXTERNAL MOSAIC WINDOW
- IPS INHIBIT POSTERIZATION SOLARIZATION HI= INHIBIT
- IM INHIBIT MOSAICS HI= INHIBIT



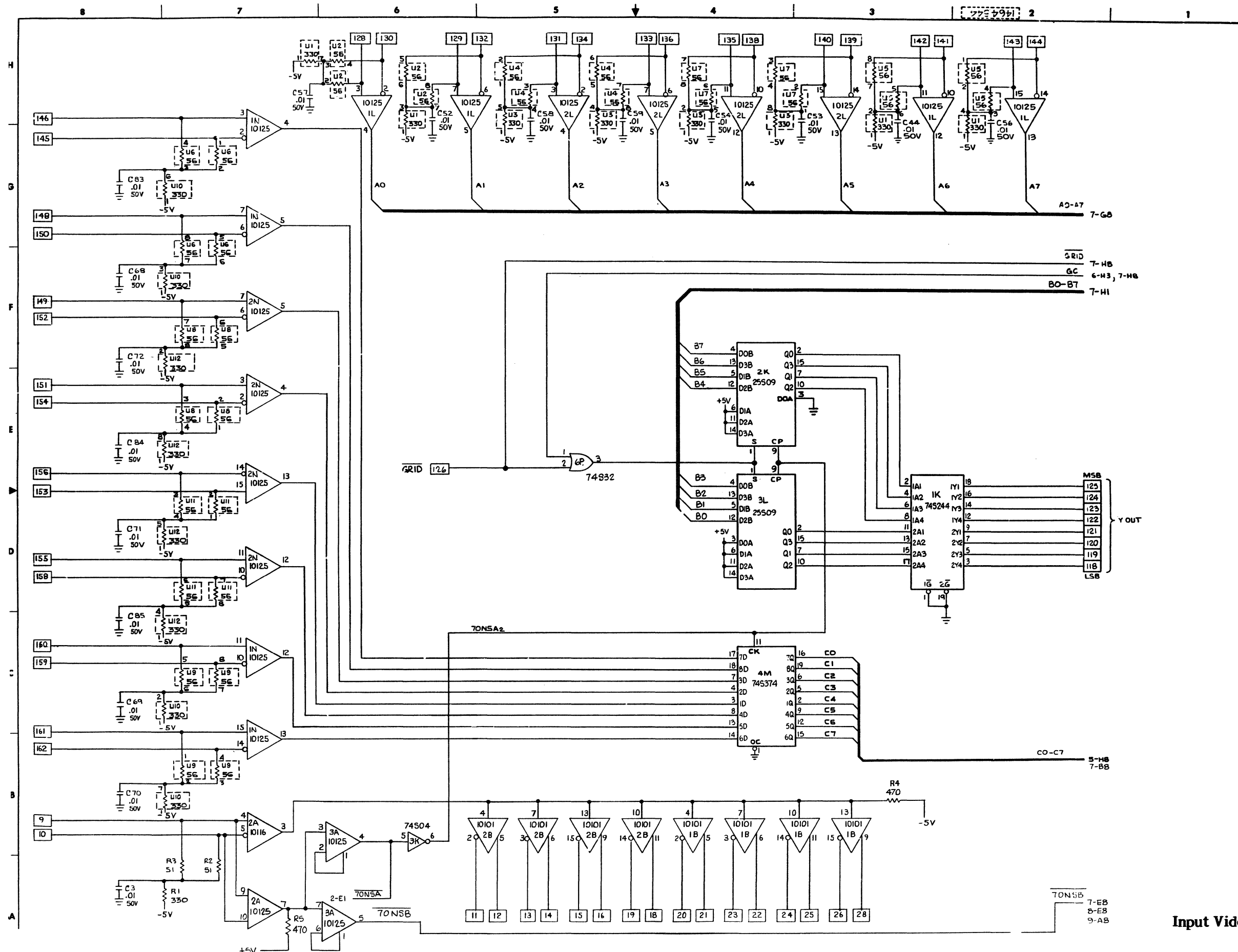
Schematic No. 1464544—
 Input Video Processor PWA, A1, NTSC
 (Sheet 1 of 10)



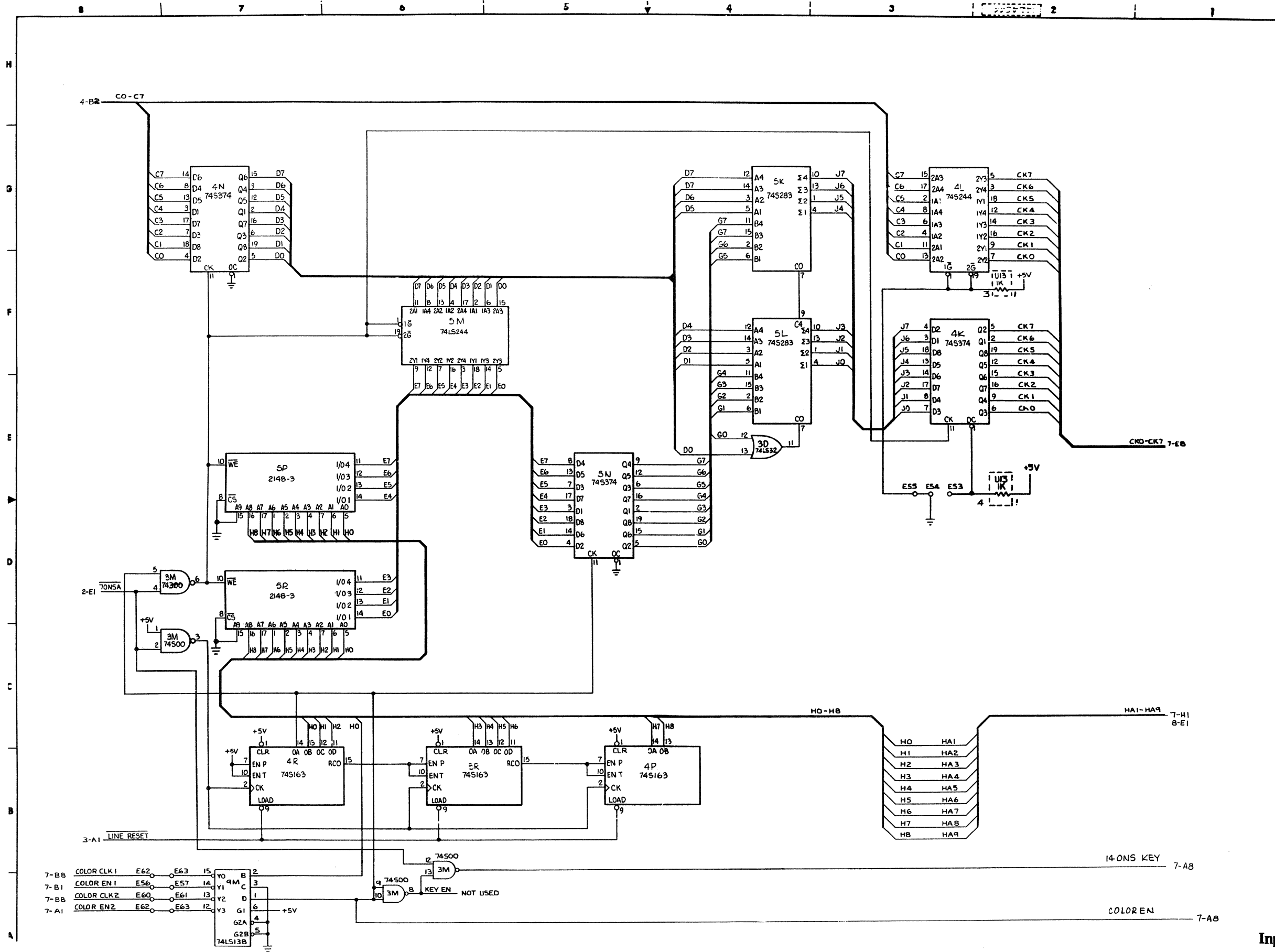
Schematic No. 1464544—
 Input Video Processor PWA, A1, NTSC
 (Sheet 2 of 10)



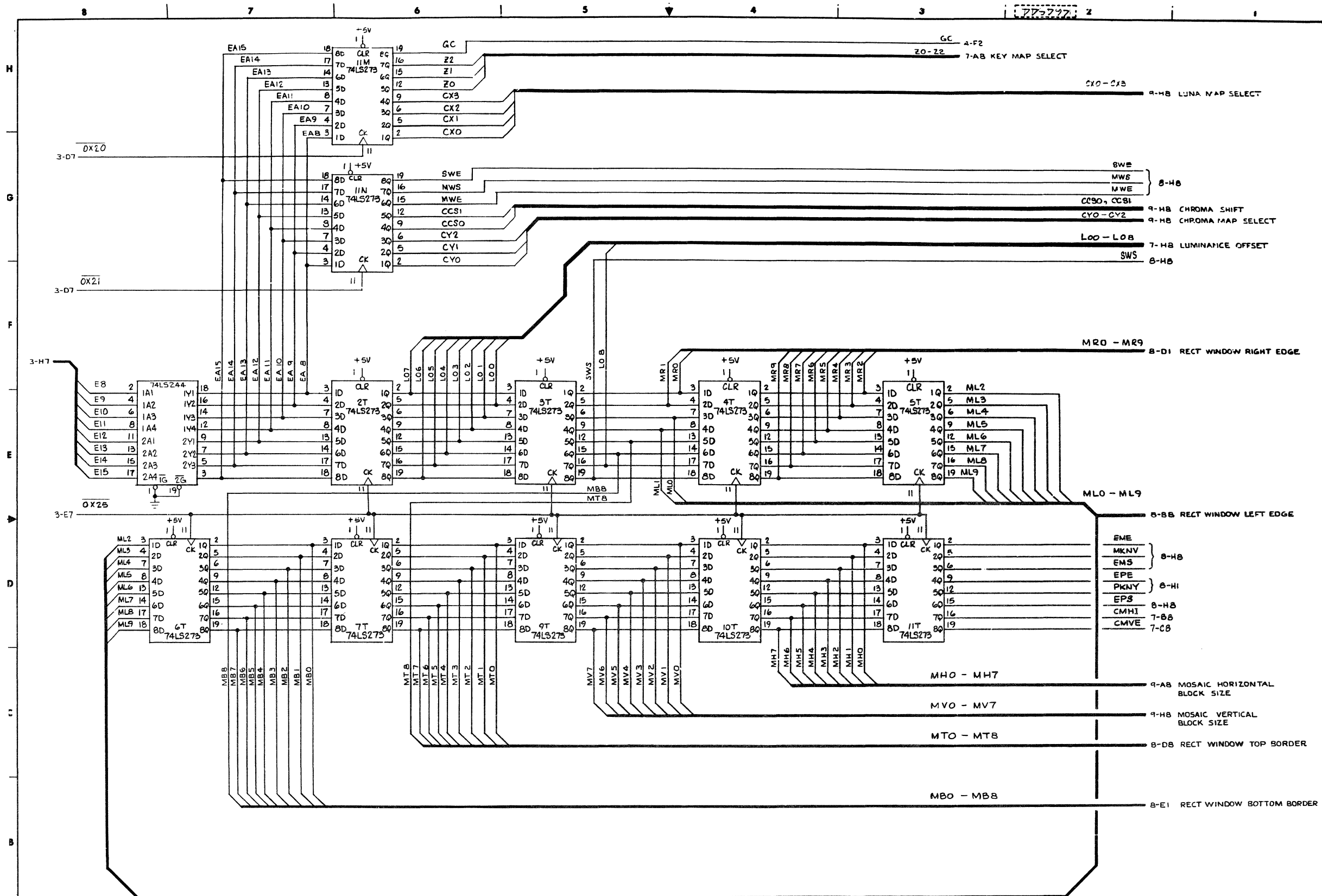
Schematic No. 1464544-
 Input Video Processor PWA, A1, NTSC
 (Sheet 3 of 10)



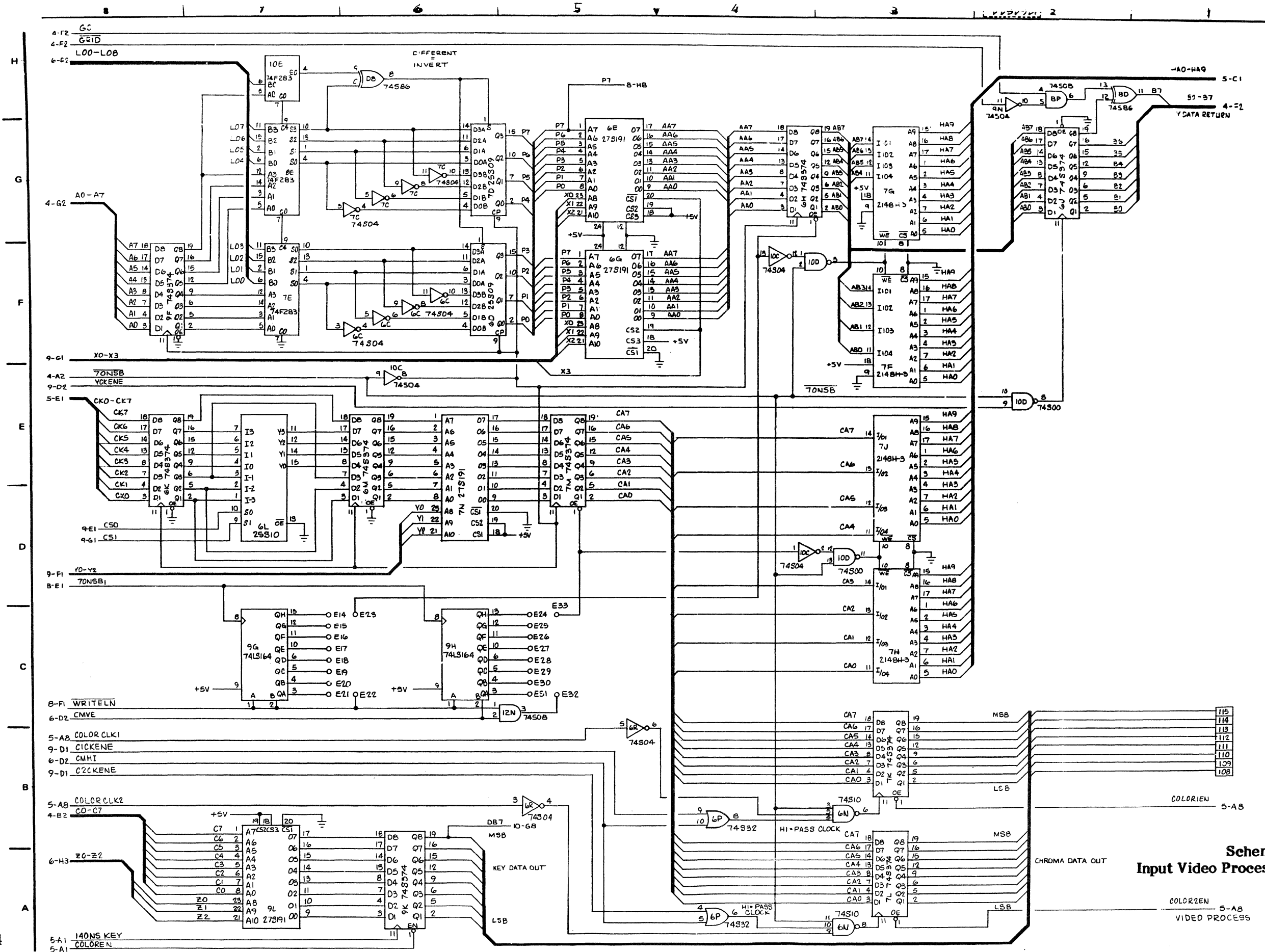
Schematic No. 1464544-
 Input Video Processor PWA, A1, NTSC
 (Sheet 4 of 10)



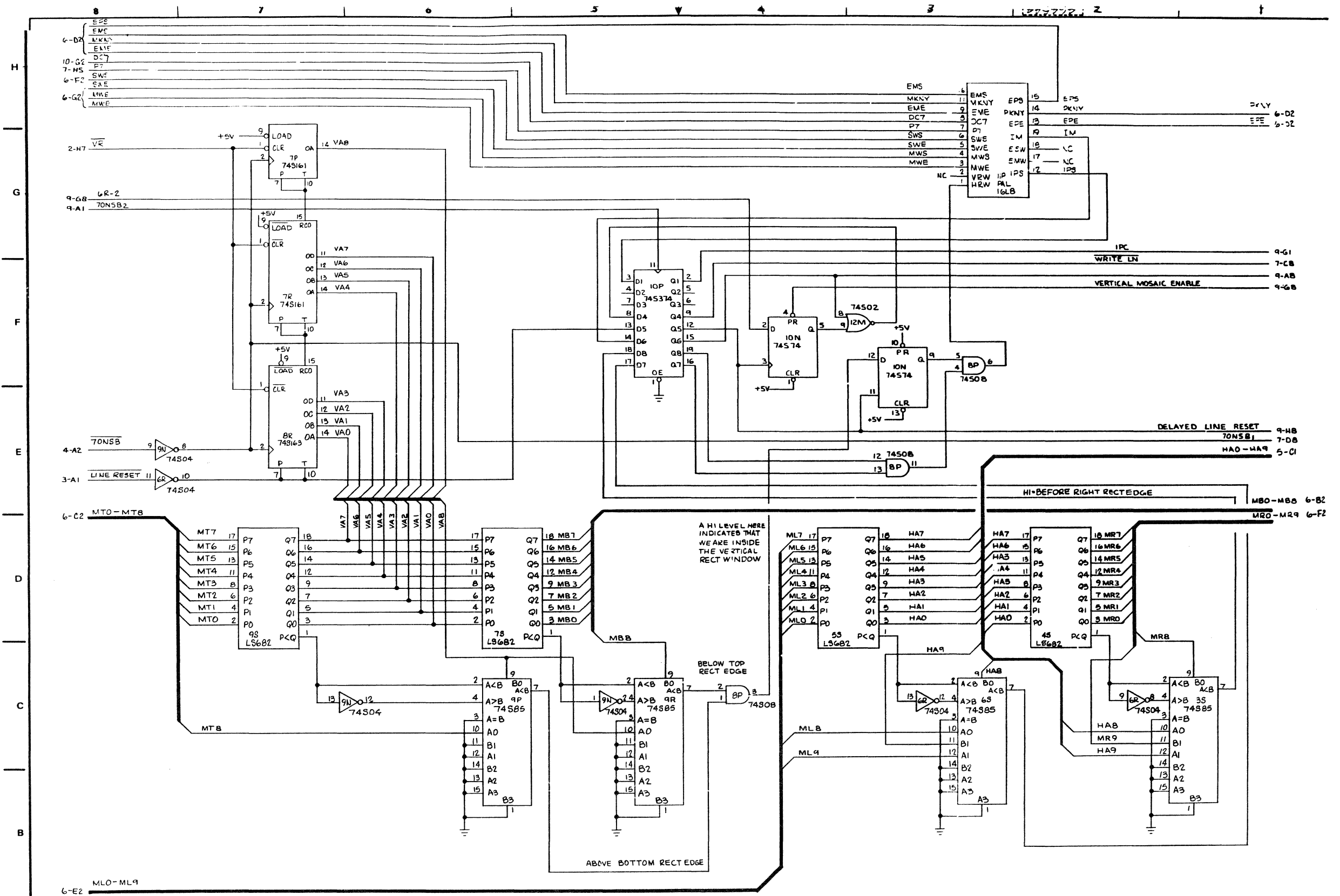
Schematic No. 1464544—
Input Video Processor PWA, A1, NTSC
 (Sheet 5 of 10)



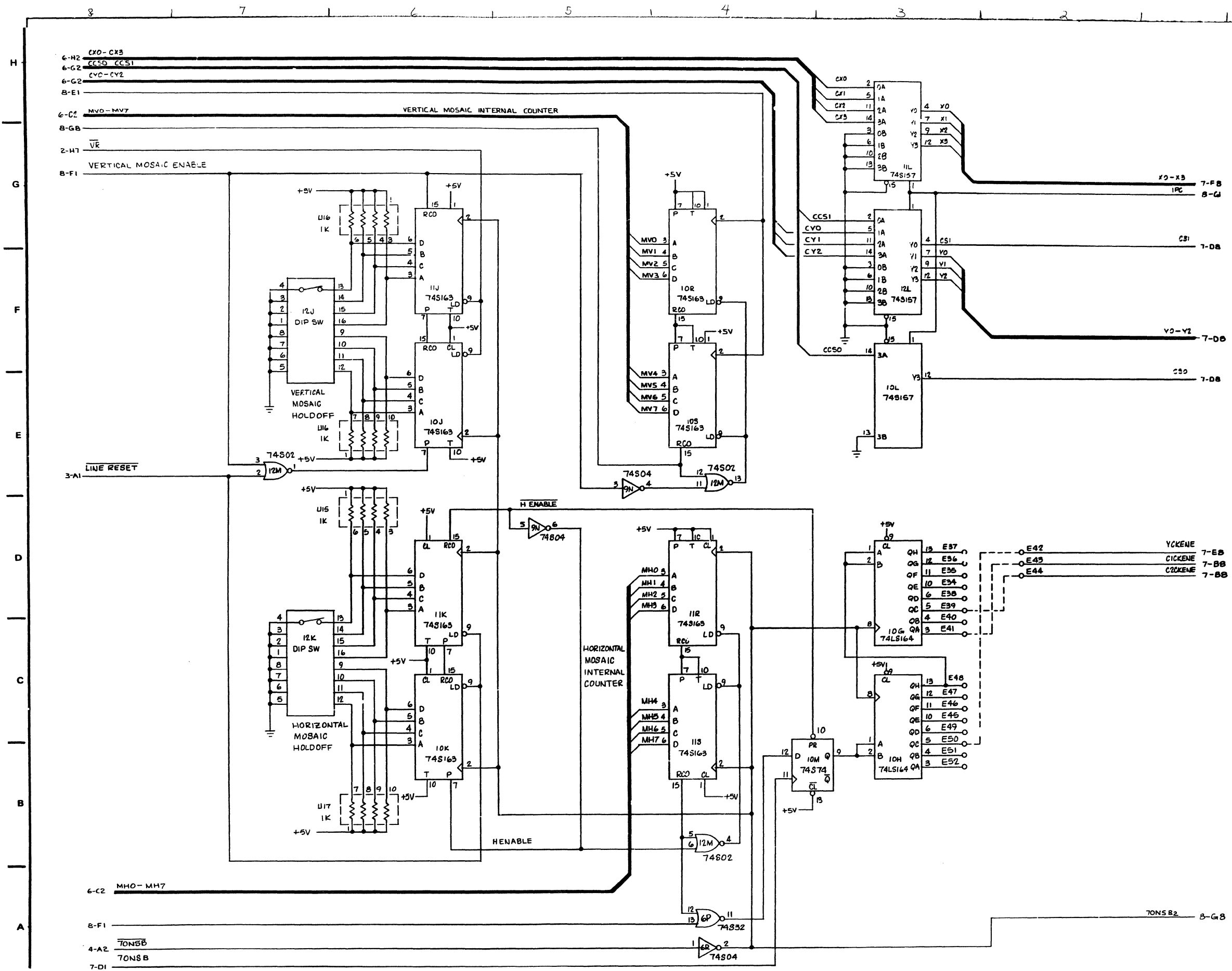
Schematic No. 1464544-
 Input Video Processor PWA, A1, NTSC
 (Sheet 6 of 10)



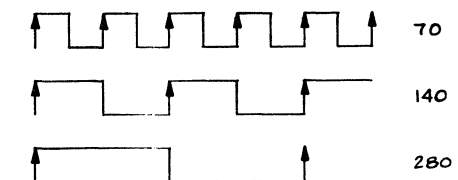
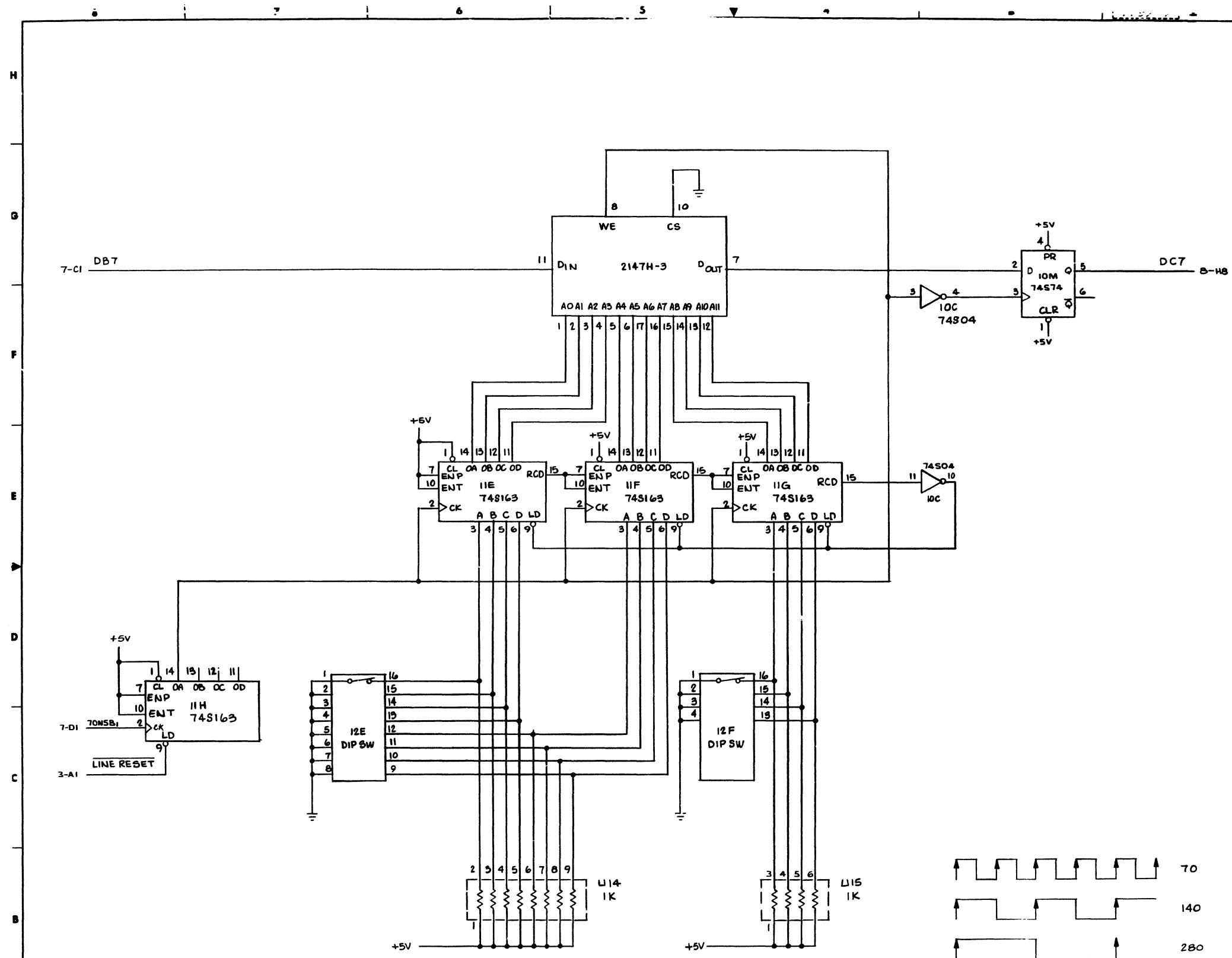
Schematic No. 1464544-
Input Video Processor PWA, A1, NTSC
(Sheet 7 of 10)




Schematic No. 1464544-
 Input Video Processor PWA, A1, NTSC
 (Sheet 8 of 10)




Schematic No. 1464544-
 Input Video Processor PWA, A1, NTSC
 (Sheet 9 of 10)



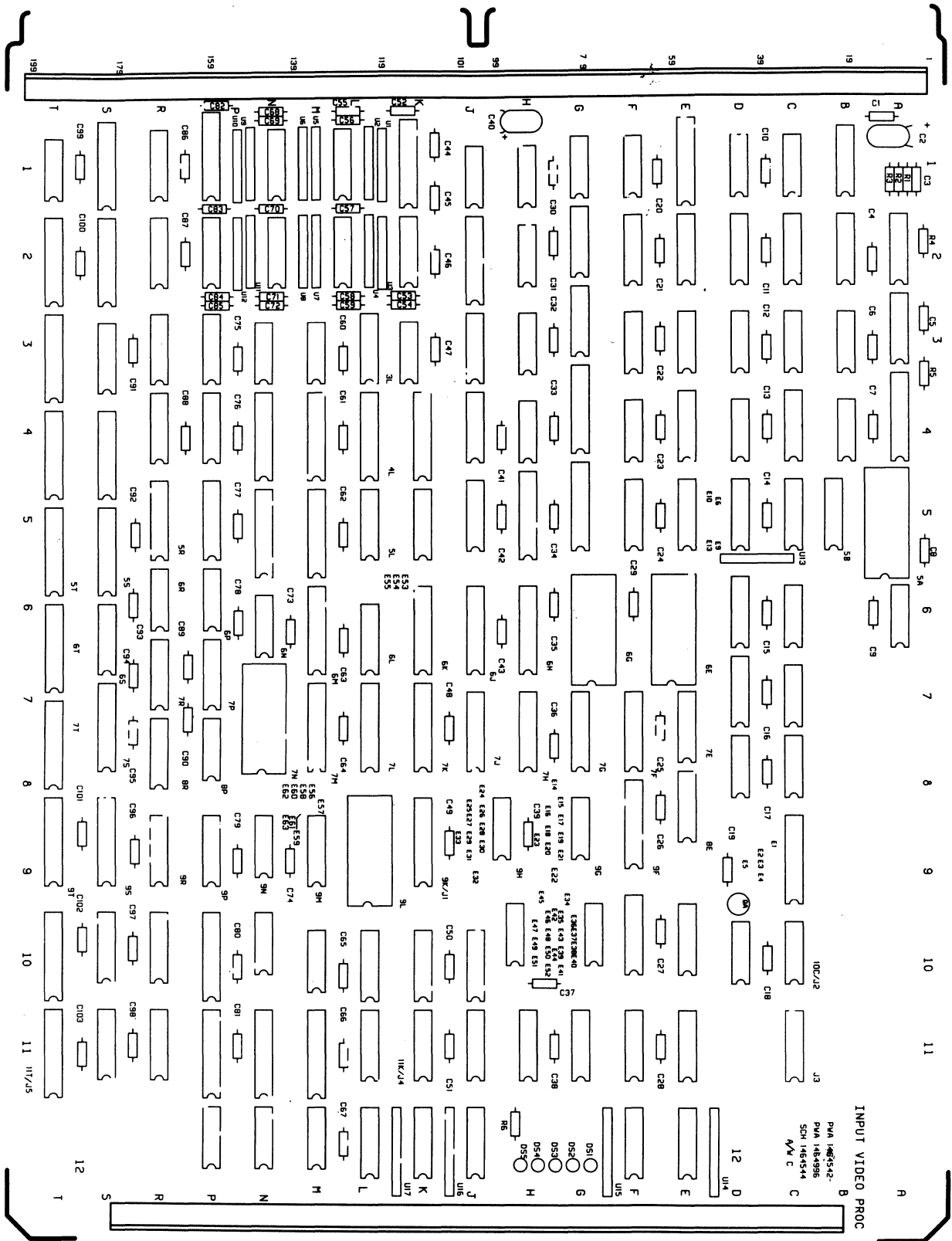
Schematic No. 1464544—
 Input Video Processor PWA, A1, NTSC
 (Sheet 10 of 10)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-01																
1																				
2																				
3	1464544	SCHEMATIC	B																	
4																				
5	1409670-CD	LABEL, EXTRACTOR ARM, DIGITAL	1																	
6	1409976-AA	INSULATOR, STIFFENER	1																	
7	1409976-AB	INSULATOR, STIFFENER	1																	
8	1409997-AA	STIFFENER, PWB	1																	
9	1409997-AB	STIFFENER, PWB	1																	
10																				
11	1464575-01	PROM ASSEMBLY	003-016 REF: PAL16L8	11P	1															
12	1465070-01		002-887 AM27S191	6E	1															
13	1465071-01			6G	1															
14	1465072-01			7N	1															
15	1465073-01		002-887 AM27S191	9L	1															
16	1465125-01		589-940 TBP28S42	4G	1															
17	1465126-01		589-715 2716	 5A	1															
18	1465127-01	PROM ASSEMBLY	REF: 589-940 TBP28S42	5G	1															
19																				
20																				
21																				
22	064-652	CAPACITOR, CER., .01uF, 50V, ±20%	C3,44,52-54,56-59, 68-72,83-85		17															
23	064-653	CAPACITOR, CER., .1uF, 50V, ±20%	C1,4-39,41-43,45-51, 55,60-67,73-82,86-103		84															
24																				
25	037-965	CAPACITOR, TANT, 120uF, 10V, ±20%	C2,40		2															
26																				
27	000-007	INTEGRATED CIRCUIT, 25S10	6L		1															
28	000-128		74S283	5K,L	2															
29	000-152		10125	1L,N,2L,N,3A	5															
30	001-073		10101	1B,2B	2															
31	002-165		74LS684	4S,5S,7S,9S	4															
32	002-181		74F283	7E,8E,10E	3															
33	003-025		2147H-3	10F	1															
34	589-814		74LS04	3E,4D	2															
35	589-820		74LS74	3B,C	2															
36	589-823		74LS138	1R,2R,3G,9M	4															
37	589-827	INTEGRATED CIRCUIT, 74LS164	9G,H,10G,H		4															

LM

AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1464996	REV -										
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER													
				-01													
38	589-837	INTEGRATED CIRCUIT, 74S00	3M, 4H, 10D, 12P	4													
39	589-838	74S04	1C, G, J, 2H, 3K, 6C, 6R, 7C, 9M, 10C	10													
40	589-839	74S08	1D, F, H, 4F, 8P, 12N	6													
41	589-840	74S10	6N	1													
42	589-846	74S74	1T, 3H, N, 8C, 10M, N	6													
43	589-847	74S86	8D	1													
44	589-850	74S163	3R, 4C, E, P, R, 5C, D, E, F, 7P, R, 8R, 10J, K, R, S, 11E, F, G, H, J, K, 11R, S	24													
45	589-935	74LS393	4B, 6A	2													
46	590-227	25S09	2K, 3L, 4J, 5J, 6D, 7D	6													
47	590-328	74LS32	3D, F	2													
48	590-335	74LS273	1S, 2T, 3T, 4A, T, 5T, 6T, 7T, 9T, 10T, 11M, N, T,	13													
49	590-443	74S02	12M	1													
50	590-461	74LS112	2P	1													
51	590-543	10116	2A	1													
52	590-584	74LS244	2S, 5M	2													
53	590-615	74LS139	5B	1													
54	590-842	74S157	2C, D, E, F, G, 3P, 10L, 11L, 12L	9													
55	590-843	74S85	3S, 6S, 9P, R	4													
56	590-845	74S32	6P	1													
57	590-855	74S374	4K, M, N, 5H, N, 6H, J, K, M, 7K, L, 7M, 9C, F, K, 10P	16													
58	590-868	74S244	1E, K, P, 2J, 4L	5													
59	590-945	74F157	3J	1													
60	590-967	INTEGRATED CIRCUIT, 2148H-3	 5P, R, 7F, G, H, J	6													
61																	
62																	
63																	
64	581-567	LIGHT EMITTING DIODE, RED	DS1-5	5													
65																	
66																	
67	039-223	NETWORK, RESISTOR, 1K OHMS, 8 PIN SIP	U13	1													
68	039-294	1K OHMS, 10 PIN SIP	U14-17	4													
69	039-300	330 OHMS, 8 PIN SIP	U1, 3, 10, 12														
70	039-381	NETWORK, RESISTOR, 56 OHMS, 8 PIN, SIP	U2, 4-9, 11	8													
71																	
72																	
73	066-811	RESISTOR, C.F., 51 OHMS, 1/4W, ±5%	R2, 3	2													
74	066-818	RESISTOR, C.F., 470 OHMS, 1/4W, ±5%	R4-6	3													
75	066-838	RESISTOR, C.F., 330 OHMS, 1/4W, ±5%	R1	1													
676																	
77																	
78	119-492	SWITCH, DIP, 16 PIN	12E, F, J, K	4													
79																	
80																	
81																	

LM-



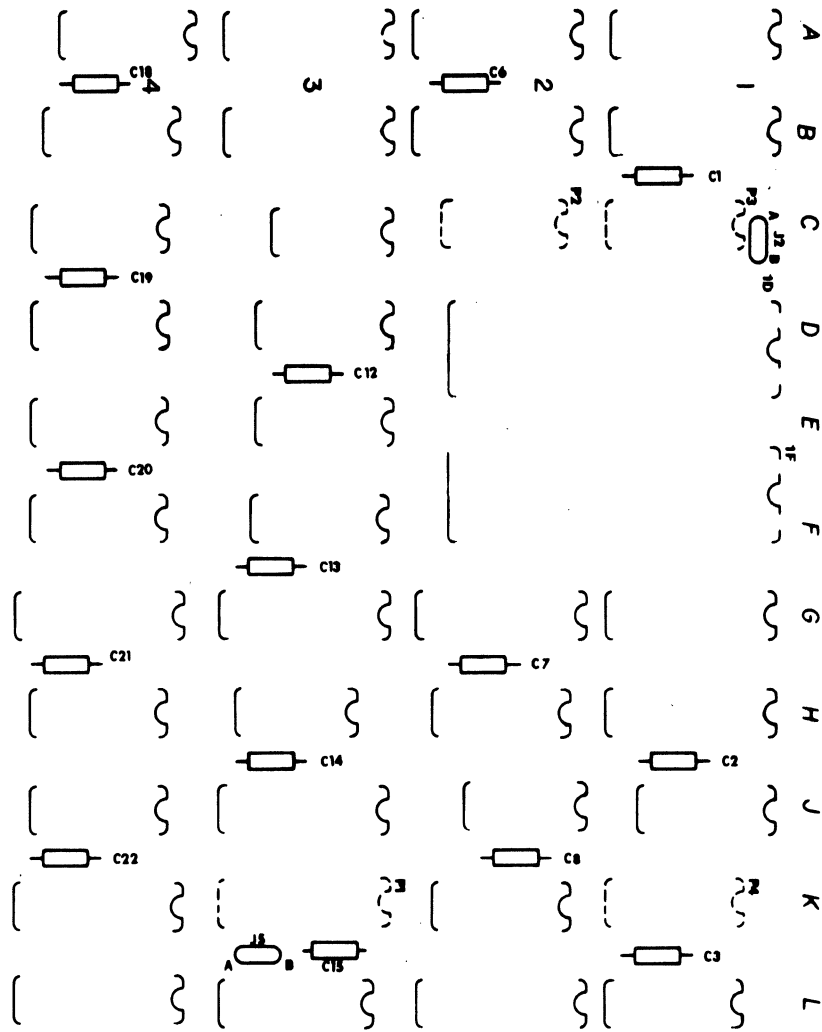
Assembly No. 1464996-01— Input Video Processor PWA, A1, PAL

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																		
				-01																		
1																						
2																						
3	1464991	SCHEMATIC.		(-)																		
4																						
5	1465061-01	PROM ASSY	REF: 589-940 TBP28S42	1A	1																	
6	1465062-01	PROM ASSY	REF: TBP28S42	1B	1																	
7	1465063-01	PROM ASSY	REF: TBP28S42	2R	1																	
8	1465064-01	PROM ASSY	REF: TBP28S42	2S	1																	
9	1464621-AA	SPACER, DIP PLUG		REF:P2	2																	
10	1464621-AB	SPACER, DIP PLUG		REF:P3,4	4																	
11	1464621-AC	SPACER, DIP PLUG		REF:P1,5	4																	
12	064-653	CAPACITOR, CER., .1uF, 50V, ±20%		C1-25	25																	
13	001-091	INTEGRATED CIRCUIT, 74S112		2H,K	2																	
14	002-181		74F283	1L,M,3D,E,F, 4A,B,C,D,E,F	11																	
15	002-929		74F163	1J,2N,3N,P,R, 3S,4M	7																	
16	589-838		74S04	2J,3C	2																	
17	589-847		74S86	3H	1																	
18	590-227		AM25S09	4H,J	2																	
19	590-335		74LS273	1N,P,R	3																	
20	590-584		74LS244	2M	1																	
21	590-845		74S32	2P	1																	
22	590-855		74S374	3J,4K	2																	
23	590-947		74F374	1G,H,2A,B,G,L, 3A,B,G,4G,L	11																	
24	590-987		MPY8HJ-1	1D,F	2																	
25	590-967	INTEGRATED CIRCUIT, 2148H-3		3L,M,4N,P,R, 4S	6																	
26																						
27																						
28																						
29	143-981	JACK, P.C., TIP		J1-A,B,C,J2-A,B,J3-A,B, J4-A,B,J5-A,B,J6-A,B, J7-A,B,J8-A,B,J9-A,B	19																	
30																						
31	166-342	ADAPTOR, DIP PLUG, 16 PIN		P3,4	2																	
32	177-279	ADAPTOR, DIP PLUG, 20 PIN		P1,5	2																	
33	586-433	ADAPTOR, DIP PLUG, 14 PIN		P2	1																	
34																						
35	582-332	I.C., MTG. HDW., SOCKET, 18 PIN		REF:3L,M,4N,P,R,S	6																	
36	582-282	I.C., MTG. HDW., SOCKET, 40 PIN		REF:1D,F	2																	
37	582-330	I.C., MTG. HDW., SOCKET, 14PIN		REF:2J,P,3C,H	4																	

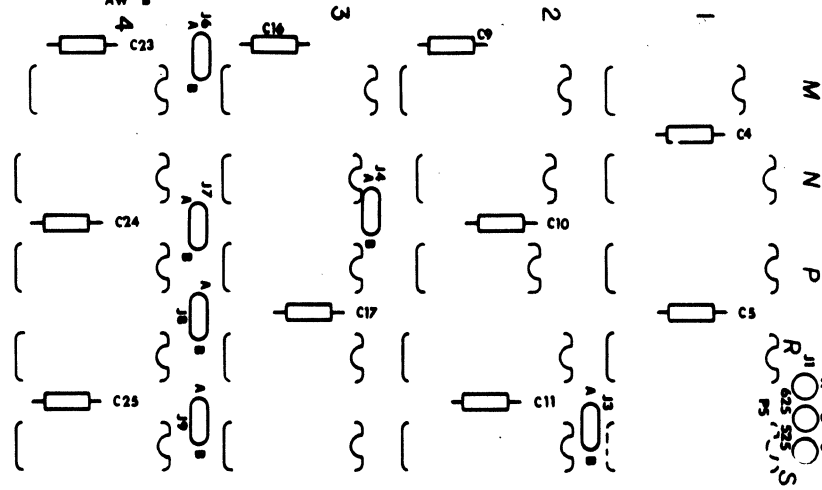
LM-1464989

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER												
				-01												
38	582-331	I.C., MTG. HDW., SOCKET, 16 PIN	REF: 1J,L,M,2H,K,N, 3D,E,F,N,P,R, 3S,4A,B,C,D,E,F,H,J,M	22												
39	582-333	I.C., MTG. HDW., SOCKET, 20 PIN	REF: 1A,B,G,H,N,P, 1R,2A,B,G,L,M, 2R,S,3A,B,G,J,4G,K,L	21												
40																
41																
42	602-044	PLUG, SHORTING, RED	J1-9	9												

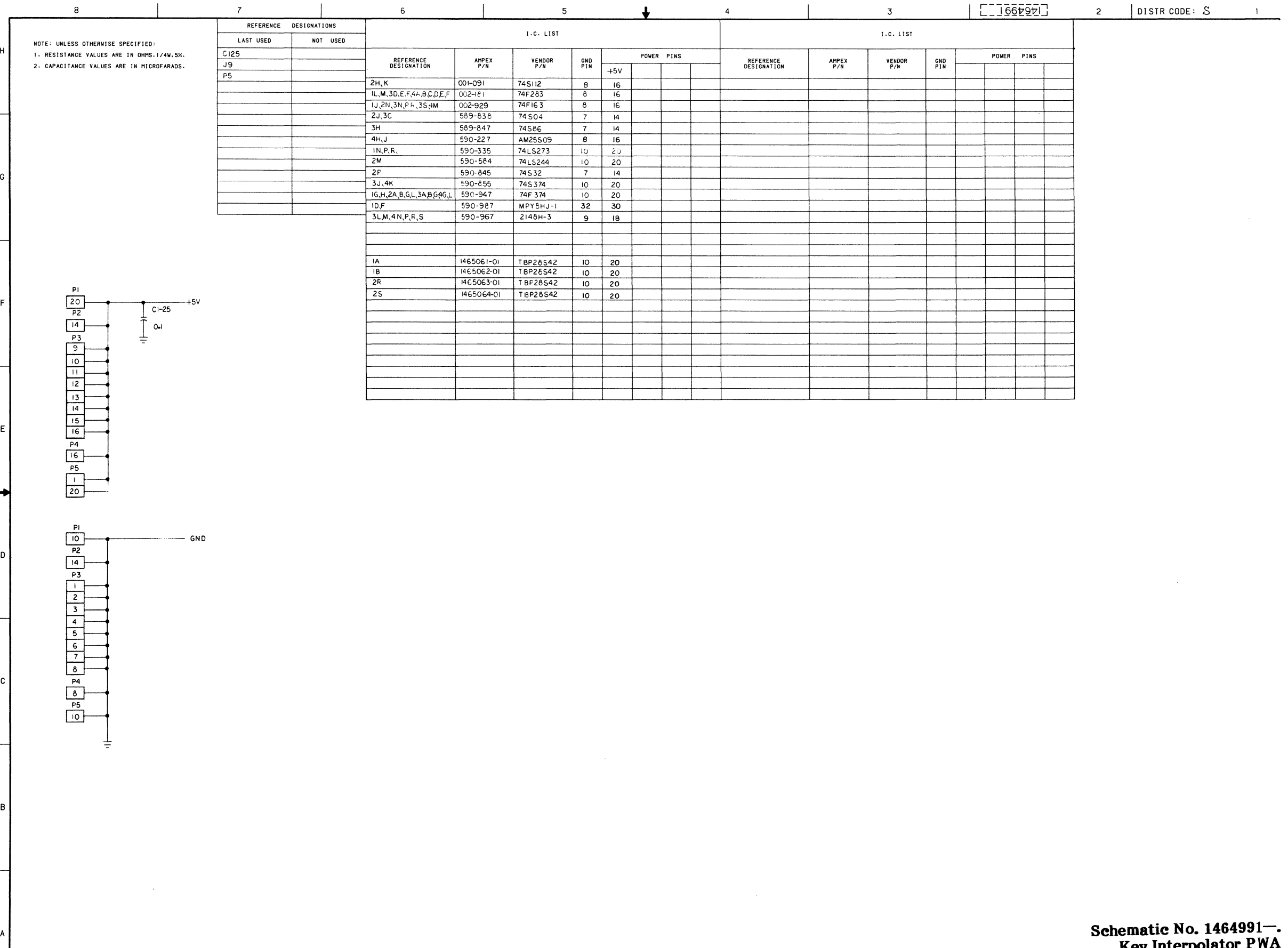
LM-1464989



KEY INTERPOLATOR
 PWA 1464989
 SCHEM 1464991
 AW B

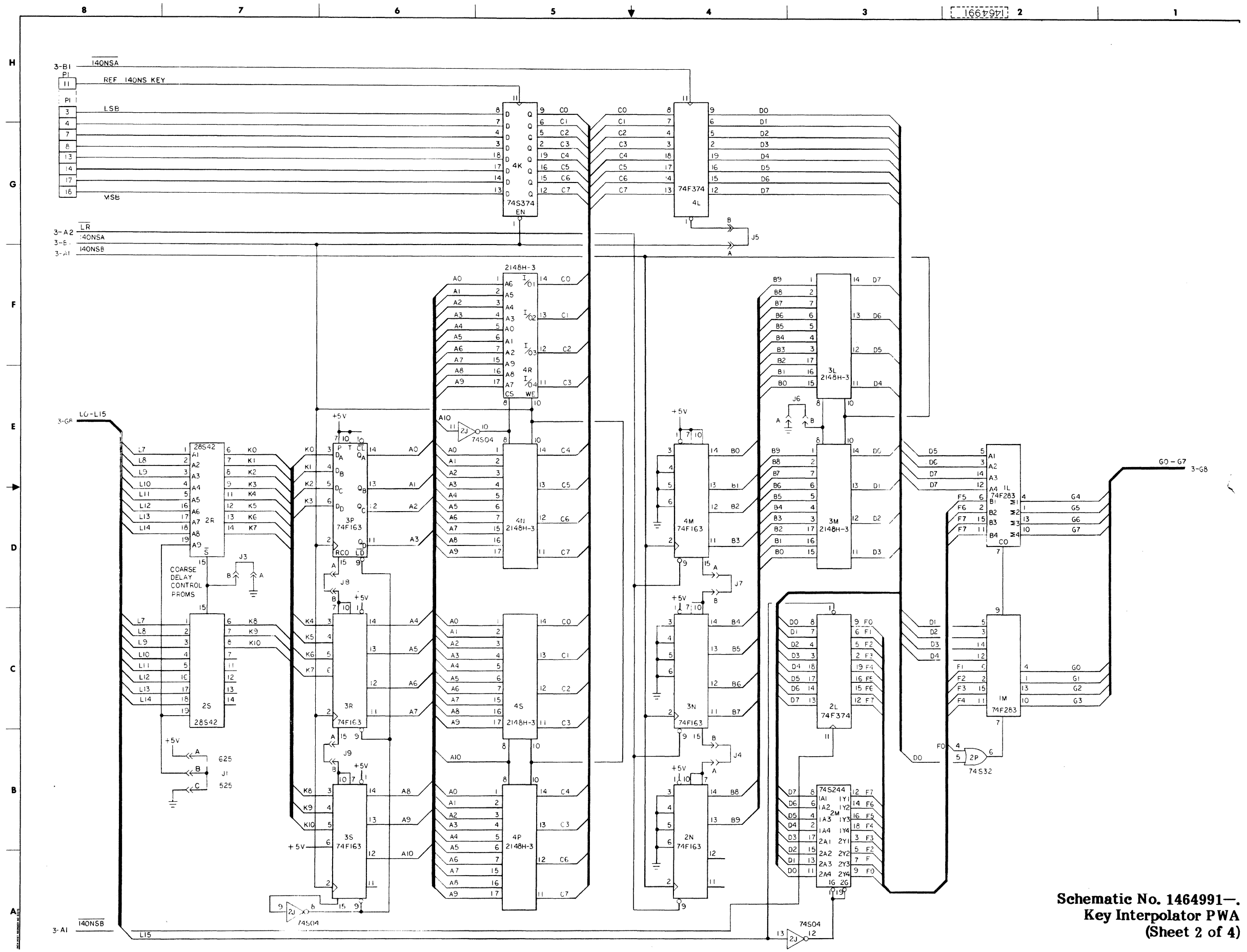


Assembly No. 1464989-01—. Key Interpolator PWA

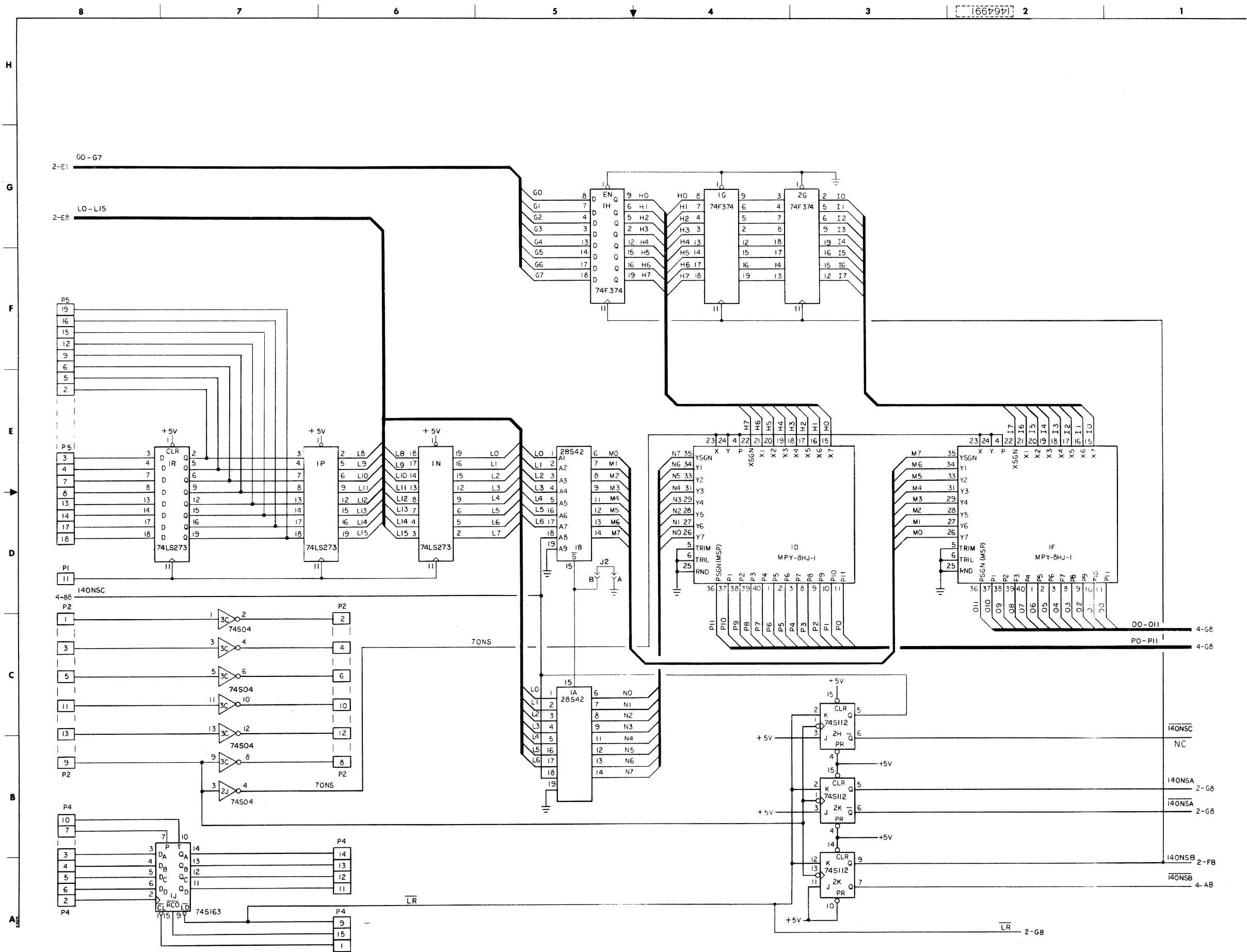


REFERENCE DESIGNATIONS		I.C. LIST						I.C. LIST					
LAST USED	NOT USED	REFERENCE DESIGNATION	AMPEX P/N	VENDOR P/N	GND PIN	POWER PINS		REFERENCE DESIGNATION	AMPEX P/N	VENDOR P/N	GND PIN	POWER PINS	
						+5V							
C125		2H,K	001-091	74S112	8	16							
J9		1L,M,3D,E,F,4A,B,C,D,E,F	002-881	74F283	8	16							
P5		1J,2N,3N,P,R,3S,H	002-929	74F163	8	16							
		2J,3C	589-838	74S04	7	14							
		3H	589-847	74S66	7	14							
		4H,J	590-227	AM25S09	8	16							
		1N,P,R	590-335	74LS273	10	20							
		2M	590-584	74LS244	10	20							
		2P	590-845	74S32	7	14							
		3J,4K	590-855	74S374	10	20							
		1G,H,2A,B,G,L,3A,B,G,G,L	590-947	74F374	10	20							
		1D,F	590-987	MPY5HJ-1	32	30							
		3L,M,4N,P,R,S	590-967	2148H-3	9	18							
		1A	1465061-01	T8P28S42	10	20							
		1B	1465062-01	T8P28S42	10	20							
		2R	1465063-01	T8P28S42	10	20							
		2S	1465064-01	T8P28S42	10	20							

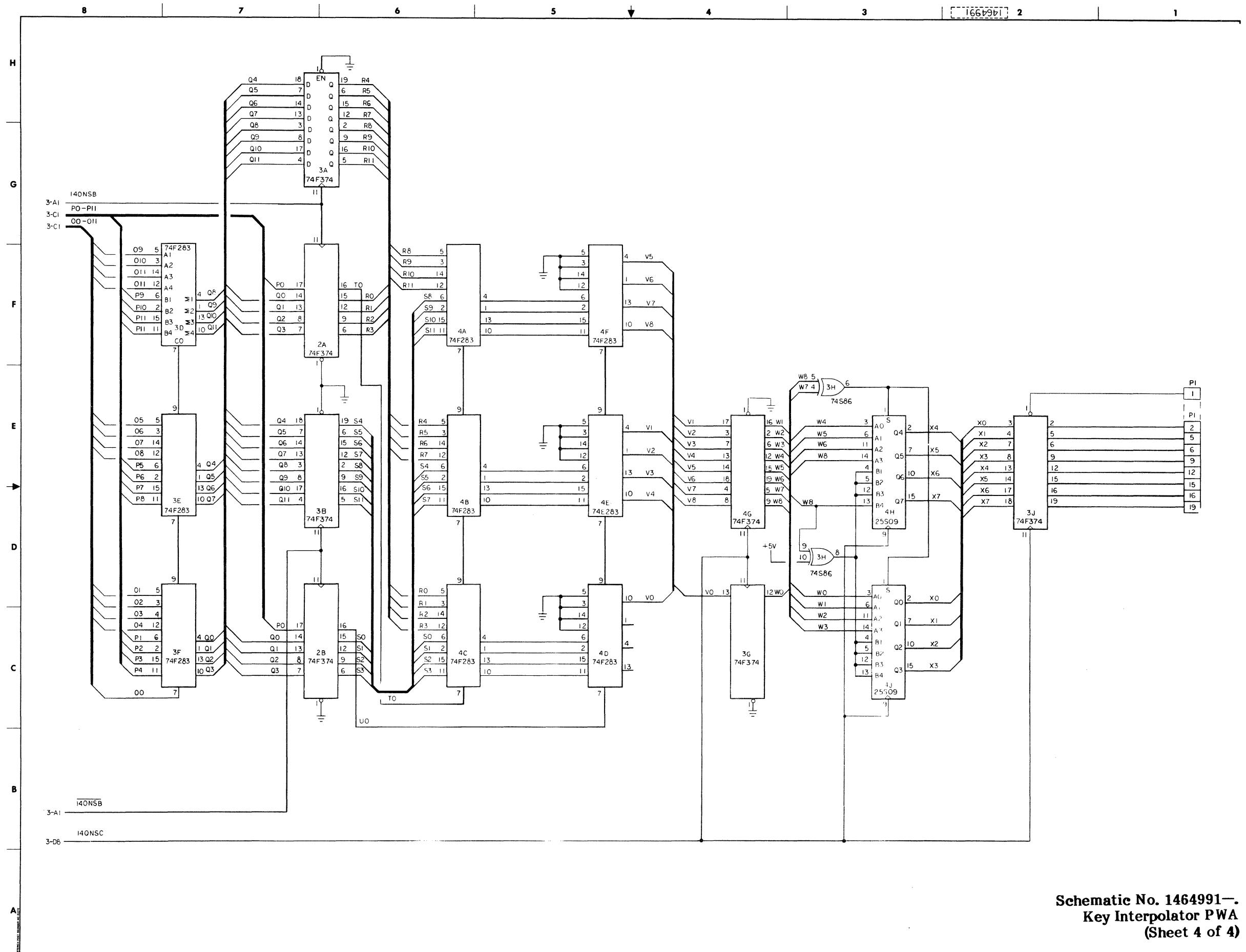
Schematic No. 1464991-
 Key Interpolator PWA
 (Sheet 1 of 4)



Schematic No. 1464991—
Key Interpolator PWA
(Sheet 2 of 4)



Schematic No. 1464991—
 Key Interpolator PWA
 (Sheet 3 of 4)



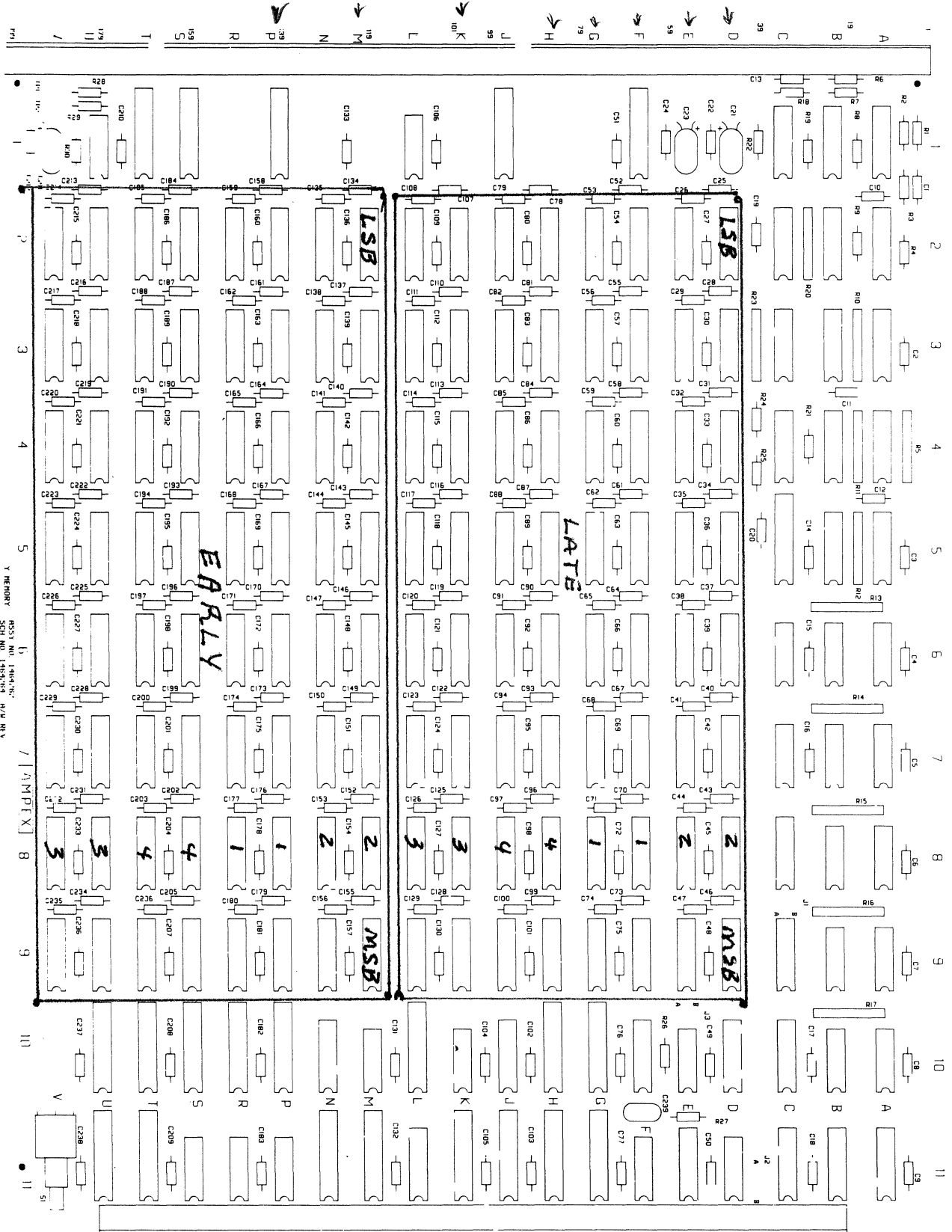
Schematic No. 1464991—
Key Interpolator PWA
(Sheet 4 of 4)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER CASH NUMBER																	
				-01	-02																
1				-01																	
2																					
3	1464264	SCHEMATIC		(-)	A																
4																					
5	1409570-AW	LABEL, EXTRACTOR ARM, PWA		1	1																
6	1409976-AA	INSULATOR, STIFFENER		1	1																
7	1409976-AB	INSULATOR, STIFFENER		1	1																
8	1409997-AA	STIFFENER, PWB		1	1																
9	1409997-AB	STIFFENER, PWB		1	1																
10																					
11	1420282-01	PROM ASSY	REF: 10139	3A	1	1															
12	1420283-01		REF: 10139	3B	1	1															
13	1420283-01	PROM ASSY	REF: T8P180030	3C	1	1															
14																					
15	064-652	CAPACITOR, CER., .01uF, 50V, ±20%		C1,13	2	2															
16	064-653	CAPACITOR, CER., .1uF, 50V, ±20%		C2-12,14-20,22, 24-210,212-238	233	233															
17																					
18	034-177	CAPACITOR, MICA., 100pF, 500V, 5%		C239	1	1															
19																					
20	037-892	CAPACITOR, TANT., 47uF, 20V, ±20%		C211	1	1															
21	037-965	CAPACITOR, TANT., 120uF, 10V, ±20%		C21,23	2	2															
22																					
23	000-127	INTEGRATED CIRCUIT, 74S381		11J,K,M,N	4	4															
24	000-148		AM2966	5C,10G,H,R, S	5	5															
25	000-152		10125	3C,4C,5A,B	4	4															
26	001-077		10176	4A,B	2	2															
27	587-550		10136	2A,B	2	2															
28	589-823		74LS138	11E	1	1															
29	589-837		74S00	11D,11S	2	2															
30	589-838		74S04	1L,6B,7C, 10K,M	5	5															
31	589-839		74S08	10E,11R	2	2															
32	589-840		74S10	1U	1	1															
33	589-845		74S37	6A,7B,8B,9B, 10B	5	5															
34	589-846		74S74	7A,8A,9A,10A, 11F	5	5															
35	589-850		74S163	8C,10J,N,11A, B,C	6	6															
36	589-933		74LS161	10C	1	1															
37	589-934	INTEGRATED CIRCUIT, 74LS221		10F	1	1															

LM-1464262

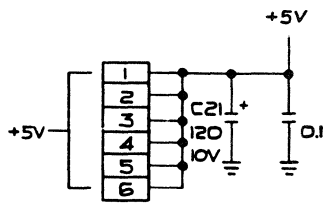
AMPEX | Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS		LM-1464262	SHEET 2 OF 3	REV E		
PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER						
			-01	-02					
38	589-935	INTEGRATED CIRCUIT, 74LS393	11P	1	1				
39	590-183	HK4116N-3	2D,E,F,G,H, J,K,L,M,N,P, R,S,T,U,V,3D,E,F,G,H,J,K,L, M,N,P,R,S,T,U,V,4D,E,F,G,H, J,K,L,P,Q,R,S,T,U,V,5D,E, F,G,H,J,K,L,M,N,P,R,S,T,U,V, 6D,E,F,G,H,J,K,L,M,N,P,R,S, T,U,V,7D,E,F,G,H,J,K,L,M,N, P,R,S,T,U,V,8D,E,F,G,H,J,K, L,M,N,P,R,S,T,U,V,9D,E,F,G, H,J,K,L,M,N,P,R,S,T,U,V	28	128				
40	590-326	10131	1C,2C	2	2				
41	590-330	10115	1A	1	1				
42	590-564	10124	1B	1	1				
43	590-842	74S157	10D	1	1				
44	590-855	74S374	1F,J,P,S,T,10L,P,T,U, 11G,H,T,U	13	13				
45	590-859	INTEGRATED CIRCUIT, 74S182	11L	1	1				
46	589-814	INTEGRATED CIRCUIT, 74LS04	6C	1	1				
47									
48									
49	039-288	NETWORK, RESISTOR, 22 OHMS	R13-17	5	5				
50	039-329	NETWORK, RESISTOR, 470 OHMS	R5,10-12,20, 23	6	6				
51									
52	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, 5%	R28-30	3	3				
53	066-668	4.7K	R26	1	1				
54	066-669	8.2K	R27	1	1				
55	066-811	51	R1,2,6,7	4	4				
56	066-818	470	R4,8,9,19,21, 22,24,25	8	8				
57	066-838	RESISTOR, C.F., 330 OHMS, 1/4W, 5%	R3,18	2	2				
58									
59									
60	602-044	SHORTING PLUG, 2 PINS, RED INS.	J1,2,3	3	3				
61									
62	119-855	SWITCH, PUSHBUTTON, SPDT	S1	1	1				
63									
64	187-354	TERMINAL, TEST POINT	TP1,TP2	2	2				
65	143-981	CONN, SIGNAL CIRCUIT, JACK P.C. TIP	REF:J1,2,3	6	6				
66									
67	582-330	I.C., MTG HDW., SOCKET, 14 PIN	REF:1L,U,6A,B,C,7A,B,C,8A, B,9A,B,10A,B,E,K,M,11B,F,P,R,S	22	22				
68	582-331	16 PIN	REF:1A,B,C,2A,B,C,D,E,F,G, H,J,K,L,M,N,P,R,S,T,U, V,3C,D,E,F,G,H,J,K,L,M,N,P, R,S,T,U,V,4A,B,C,D,E,F,G,H, J,K,L,H,N,P,R,S,T,U,V,5A,B, C,D,E,F,G,H,J,K,L,M,N,P,R,S, T,U,V,6D,E,F,G,H,J,K,L,M,N, P,R,S,T,U,V,7D,E,F,G,H,J,K, L,M,N,P,R,S,T,U,V,8C,D,E,F, G,H,J,K,L,M,N,P,R,S,T,U,V, 9D,E,F,G,H,J,K,L,M,N,P,R,S, T,U,V,10C,D,E,F,J,N,11A,B,C, E,L,3A,B,5C	54	154				
69	582-333	I.C., MTG HDW., SOCKET, 20 PIN	REF:1F,J,P,S,T,5C,10G,H,L,P,R,S, U,11G,H,J,K,M,N,T,U	22	22				
70									
71									

LM-1464262



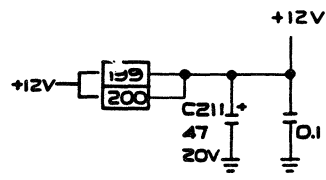
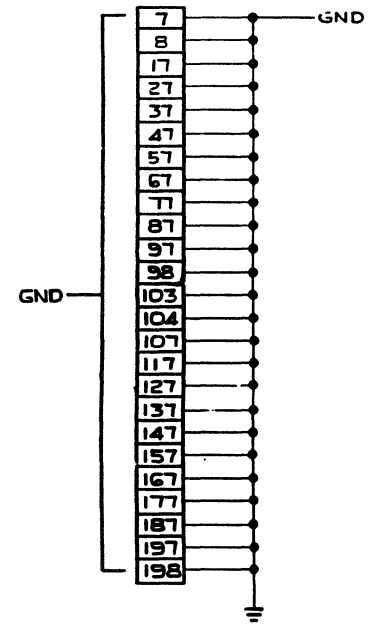
Assembly No. 1464262-02E. Y Memory PWA, A2-A6, A16, A17

H
G
F
E
D
C
B
A

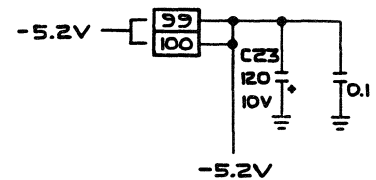


C4-9, 12, 14-18, 22, 26, 29, 32, 35, 38, 41, 44, 47, 49, 50, 51, 53, 56, 59, 62, 65, 68, 71, 74, 76, 77, 79, 82, 85, 88, 91, 94, 97, 100, 102-106, 108, 111, 114, 117, 120, 123, 126, 129, 131, 132, 133, 135, 138, 141, 144, 147, 150, 153, 156, 159, 162, 165, 168, 171, 174, 177, 180, 182, 183, 185, 188, 191, 194, 197, 200, 203, 206, 208-210, 214, 217, 220, 223, 226, 229, 232, 235, 237, 238

- NOTES: UNLESS OTHERWISE SPECIFIED:
1. RESISTANCE VALUES ARE IN OHMS 1/4W, 5%.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
- ▶ STATIC SENSITIVE, SPECIAL HANDLING REQUIRED PER AMPLEX STD HEI-1.
- ▶ SEE I.C. CHART.



C25, 28, 31, 34, 37, 40, 43, 46, 52, 55, 58, 61, 64, 67, 70, 73, 78, 81, 84, 87, 90, 93, 96, 99, 107, 110, 113, 116, 119, 122, 125, 128, 134, 137, 140, 143, 146, 149, 152, 155, 156, 161, 164, 167, 170, 173, 176, 179, 184, 187, 190, 193, 196, 199, 202, 205, 212, 213, 216, 219, 222, 225, 228, 231, 234

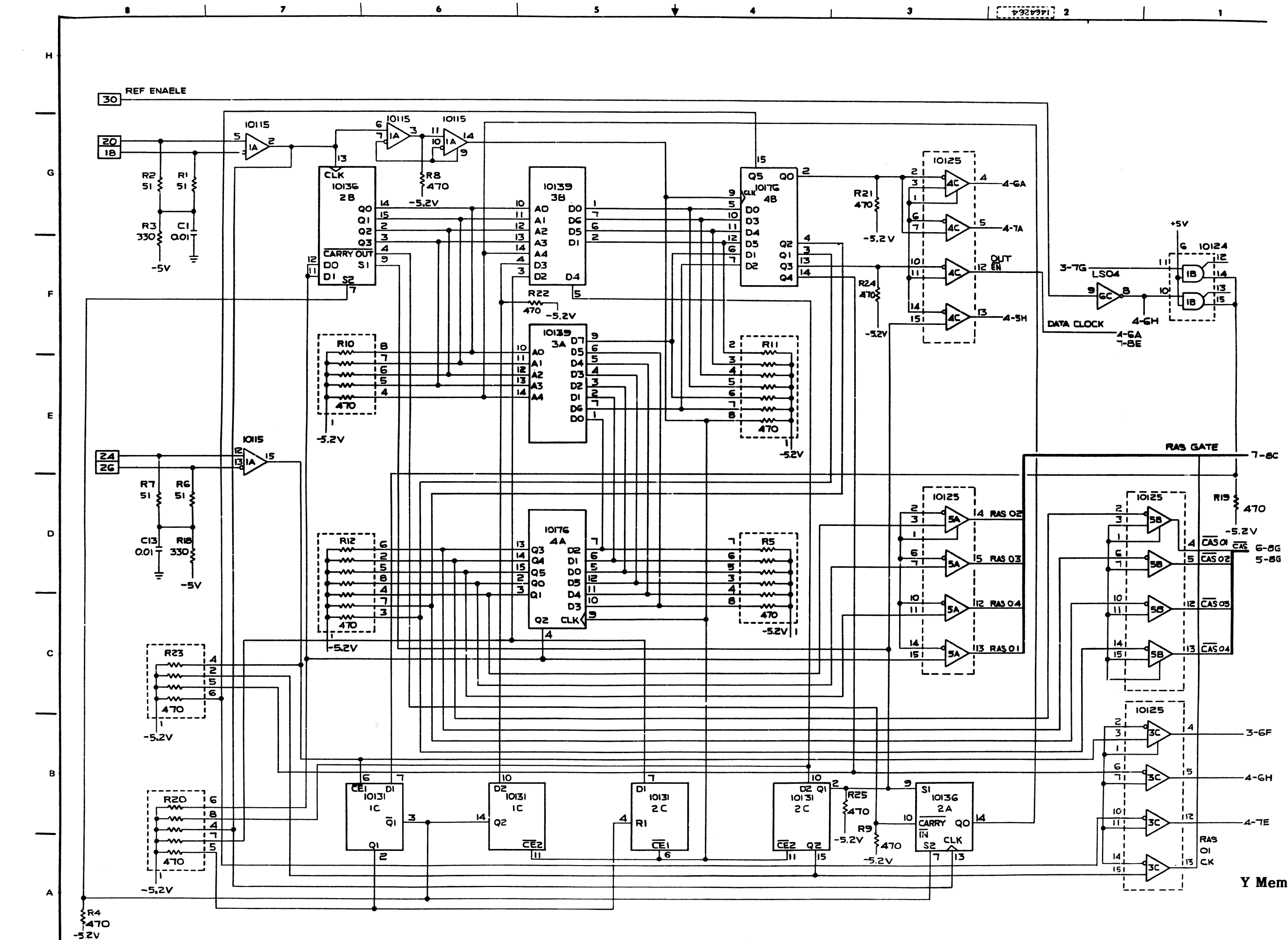


C2, 3, 10, 11, 19, 20, 24, 27, 30, 33, 36, 39, 42, 45, 48, 54, 57, 60, 63, 66, 69, 72, 75, 80, 83, 86, 89, 92, 95, 98, 101, 109, 112, 115, 118, 121, 124, 127, 130, 136, 139, 142, 145, 148, 151, 154, 157, 160, 163, 166, 169, 172, 175, 178, 181, 186, 189, 192, 195, 198, 201, 204, 207, 215, 218, 221, 224, 227, 230, 233, 236

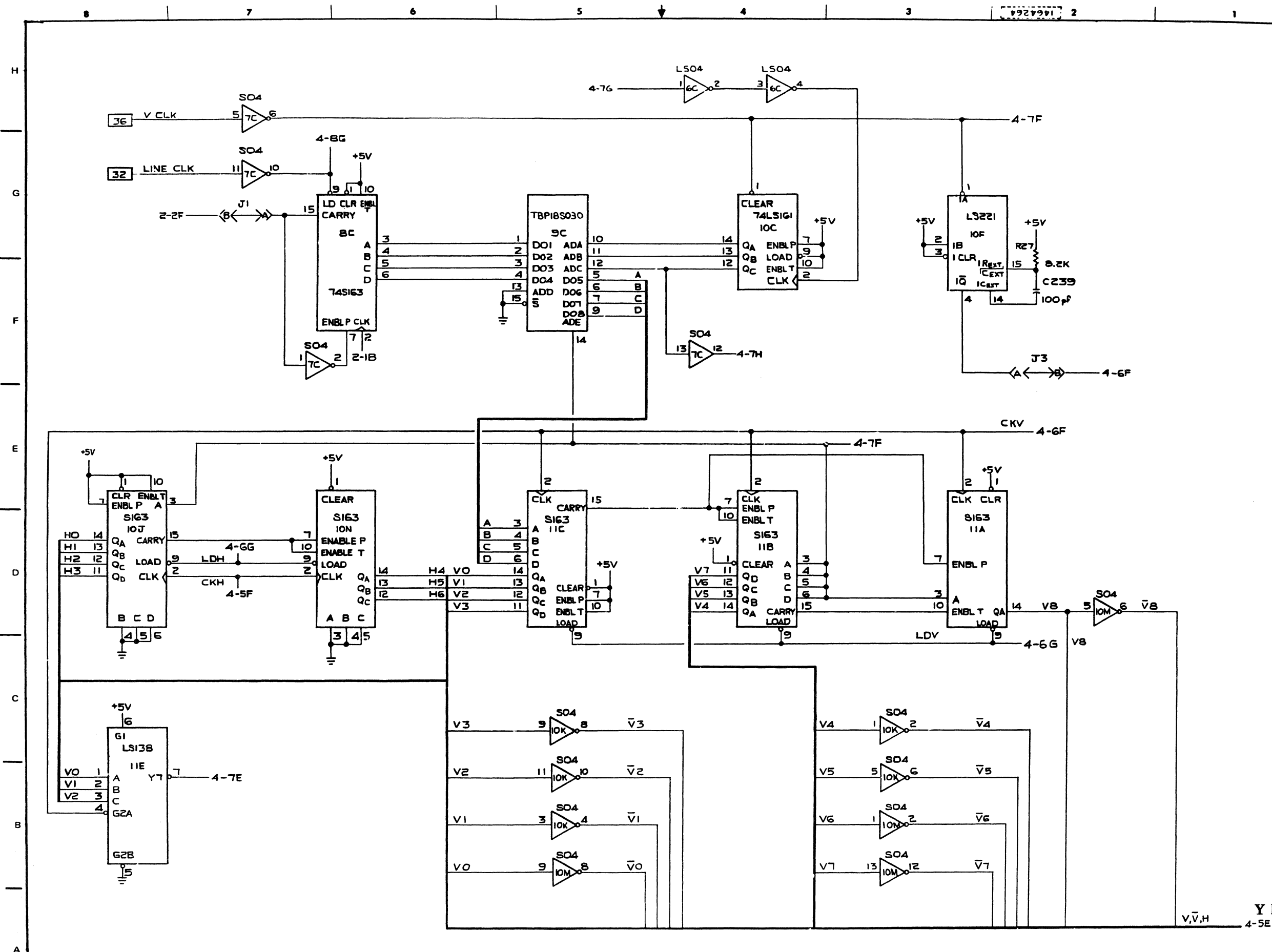
I.C. CHART							
I.C. REF. DESIG.	PIN NO.	CONNECTION	I.C. REF. DESIG.	PIN NO.	SIGNAL		
1F (SHT 7) 3	4	GOES TO	9U-9L	14 (SHT 7) P7	P6		
	7			8D-8L		P5	
	8			7D-7L		P4	
	13			6D-6L		P3	
1F (SHT 7) 18	14	GOES TO	4D-4L	3D-3L	P2		
	17			5D-5L	P1		
	1F (SHT 7) 18			GOES TO	2D-2L	14 (SHT 7) P0	P0
						14 (SHT 7) P0	
1P (SHT 7) 3	4	GOES TO	9M-9V	14 (SHT 7) O7	O6		
	7			8M-8V		O5	
	8			7M-7V		O4	
	13			6M-6V		O3	
1P (SHT 7) 18	14	GOES TO	4M-4V	3M-3V	O2		
	17			5M-5V	O1		
	1P (SHT 7) 18			GOES TO	2M-2V	14 (SHT 7) O0	O0
						14 (SHT 7) O0	
1T (SHT 7) 19	16	GOES TO	9M-9V	2 (SHT 7) J7	J6		
	15			8M-8V		J5	
	12			7M-7V		J4	
	7			6M-6V		J3	
1T (SHT 7) 2	6	GOES TO	4M-4V	3M-3V	J2		
	5			5M-5V	J1		
	1T (SHT 7) 2			GOES TO	2M-2V	2 (SHT 7) J0	J0
						2 (SHT 7) J0	
1J (SHT 7) 19	16	GOES TO	9D-9L	2 (SHT 7) I7	I6		
	15			8D-8L		I5	
	12			7D-7L		I4	
	7			6D-6L		I3	
1J (SHT 7) 2	6	GOES TO	4D-4L	3D-3L	I2		
	5			5D-5L	I1		
	1J (SHT 7) 2			GOES TO	2D-2L	2 (SHT 7) I0	I0
						2 (SHT 7) I0	

I.C. LIST										REFERENCE DESIGNATION		
REFERENCE DESIGNATION	11J, K, M, N	11L	1F, J, P, S, T, 10L, 10P, T, U, 11G, H, T, U	3A	11D, 11S	1U	10D	3C, 4C, 5A, B	6C	LAST USED	NOT USED	
AMPEX P/N	000-127	589-448	590-855	1420282-01	589-837	589-840	590-842	000-152	589-814	R30	-	
VENDOR P/N	74S381	74LS244	74S374	10139	74S00	74S10	74S157	10125	74LS04	C239	-	
VOLTAGE (PIN)	+5(20)	+5(16)	+5(20)	-5(8)	+5(14)	+5(14)	+5(16)	+5(9), -5.2(8)	+5(14)	J3	-	
GROUND (PIN)	(10)	(8)	(10)	(16)	(7)	(7)	(8)	(16)	(8)	S1	-	
REFERENCE DESIGNATION	11P	5C, 10G, H, R, S	9C	3B	1L, 6B, 7C, 10K, M	7A, 8A, 9A, 10A	1B	1C, 2C	10F	4A, B	1A	10C
AMPEX P/N	589-935	000-148	1420281-01	1420283-01	589-838	589-846	590-564	590-326	589-934	587-551	590-330	589-933
VENDOR P/N	74LS393	AM2966	TBPI8S030	10139	74S04	74S74	10124	10131	74LS221	10176	10115	74LS161
VOLTAGE (PIN)	+5(14)	+5(20)	+5(16)	-5(8)	+5(14)	+5(14)	+5(9), -5.2(8)	-5.2(8)	+5(16)	-5.2(8)	-5(8)	+5(16)
GROUND (PIN)	7	(10)	(8)	(16)	(7)	(7)	(16)	(1, 16)	(8)	(1, 16)	(1, 16)	(8)
REFERENCE DESIGNATION	2D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, 3D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, 4D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, 5D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V											
AMPEX P/N	590-183											
VENDOR P/N	MK4116N-3											
VOLTAGE (PIN)	-5(1), +5(9), +12(8)											
GROUND (PIN)	(16)											

Schematic No. 1464264A.
Y Memory PWA, A2-A6, A16, A17
(Sheet 1 of 7)

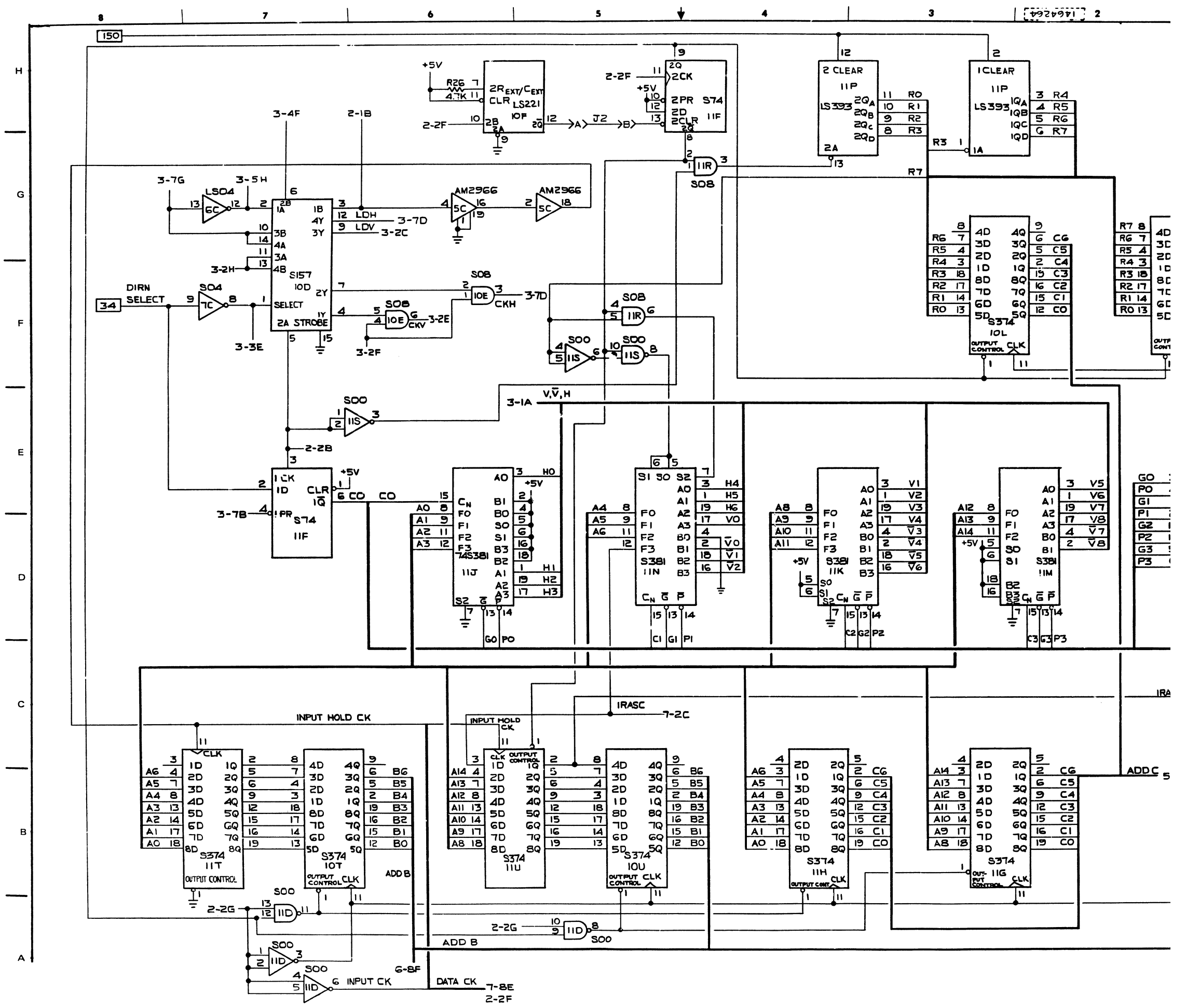


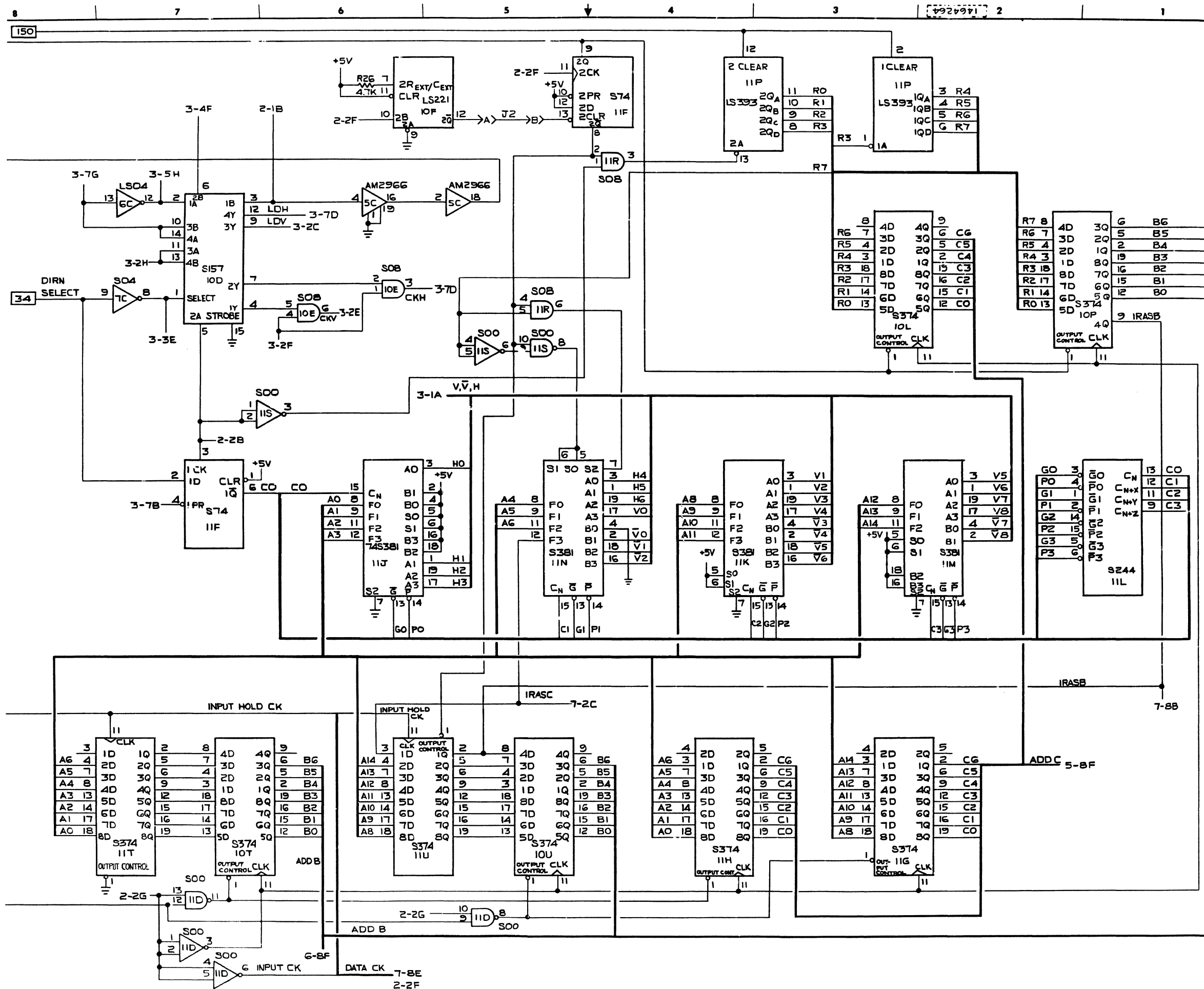
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 Y Memory PWA, A2-A6, A16, A17
 (Sheet 2 of 7)



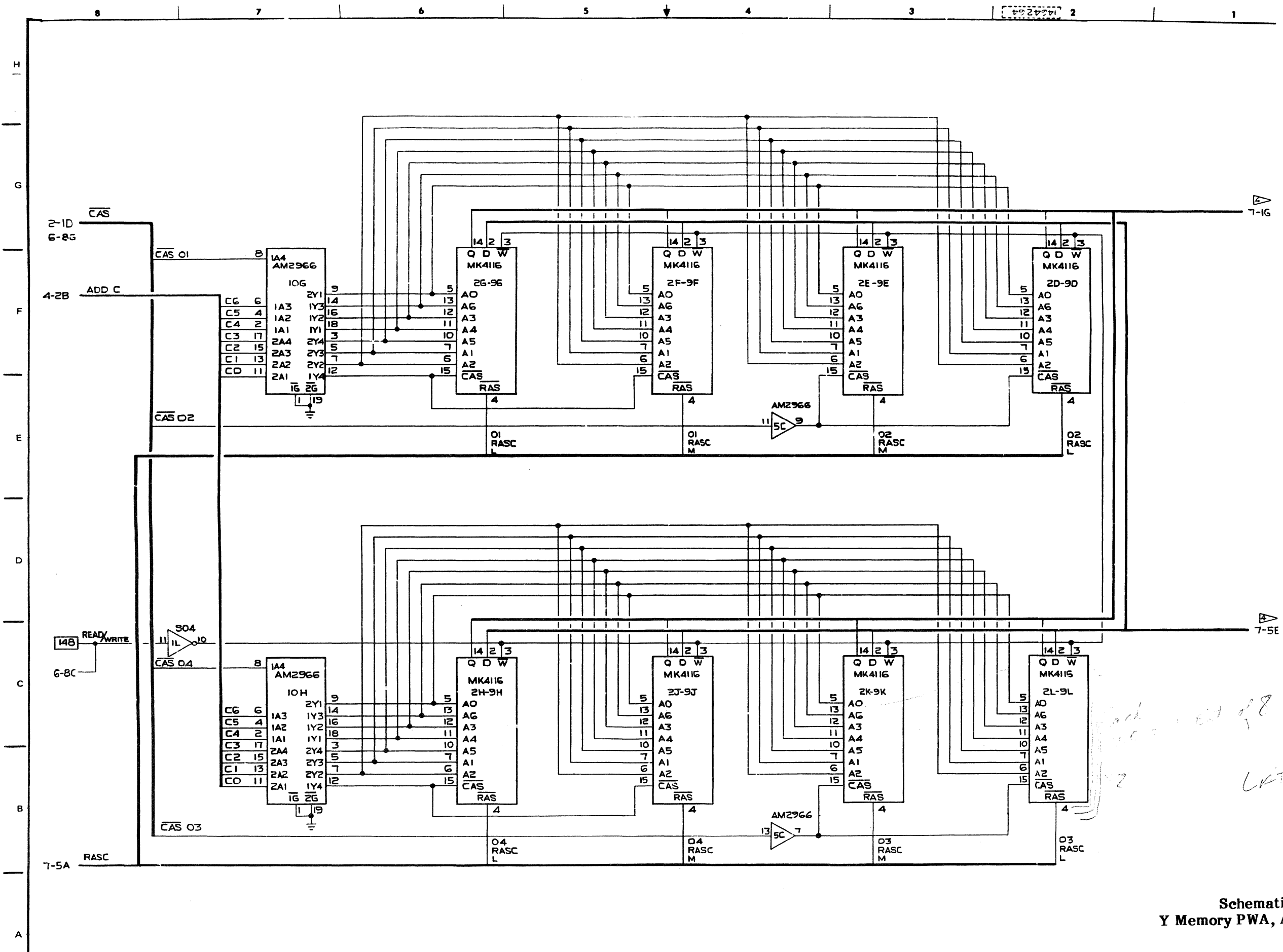
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 Y Memory PWA, A2-A6, A16, A17
 (Sheet 3 of 7)

9V-9D
4V-4D

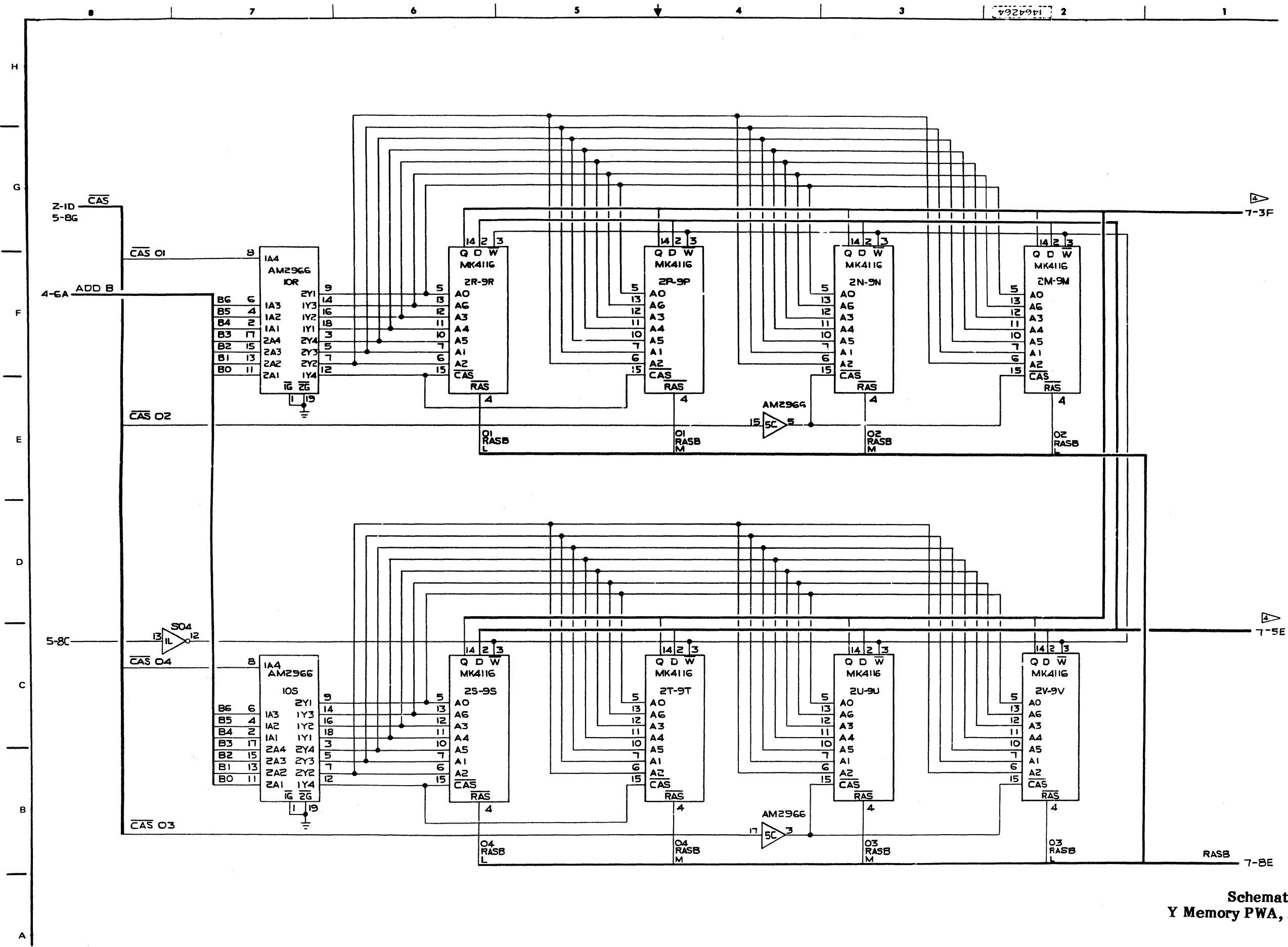




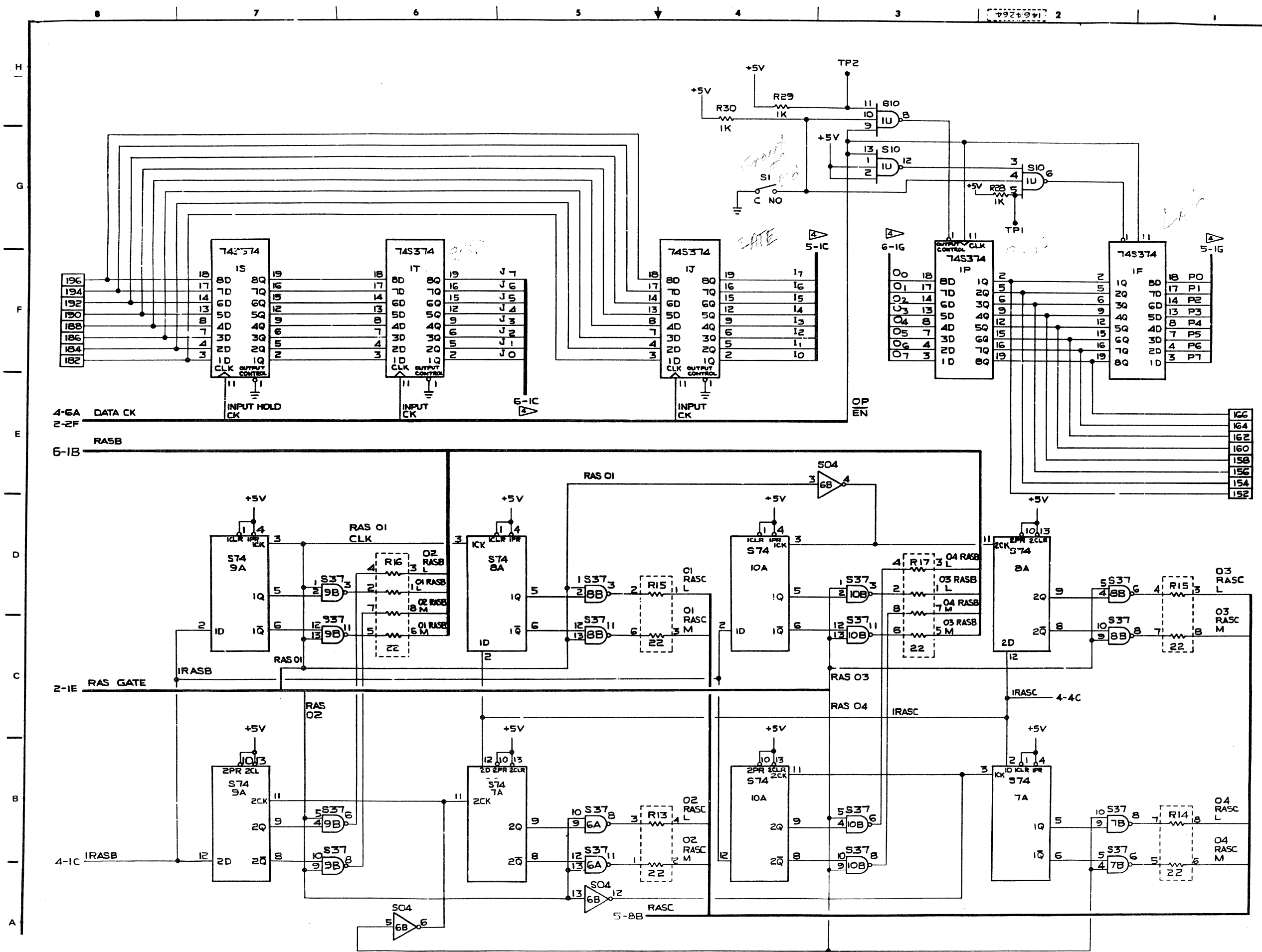
Schematic No. 1464264A.
 Y Memory PWA, A2-A6, A16, A17
 (Sheet 4 of 7)



Schematic No. 1464264A.
 Y Memory PWA, A2-A6, A16, A17
 (Sheet 5 of 7)



Schematic No. 1464264A.
 Y Memory PWA, A2-A6, A16, A17
 (Sheet 6 of 7)



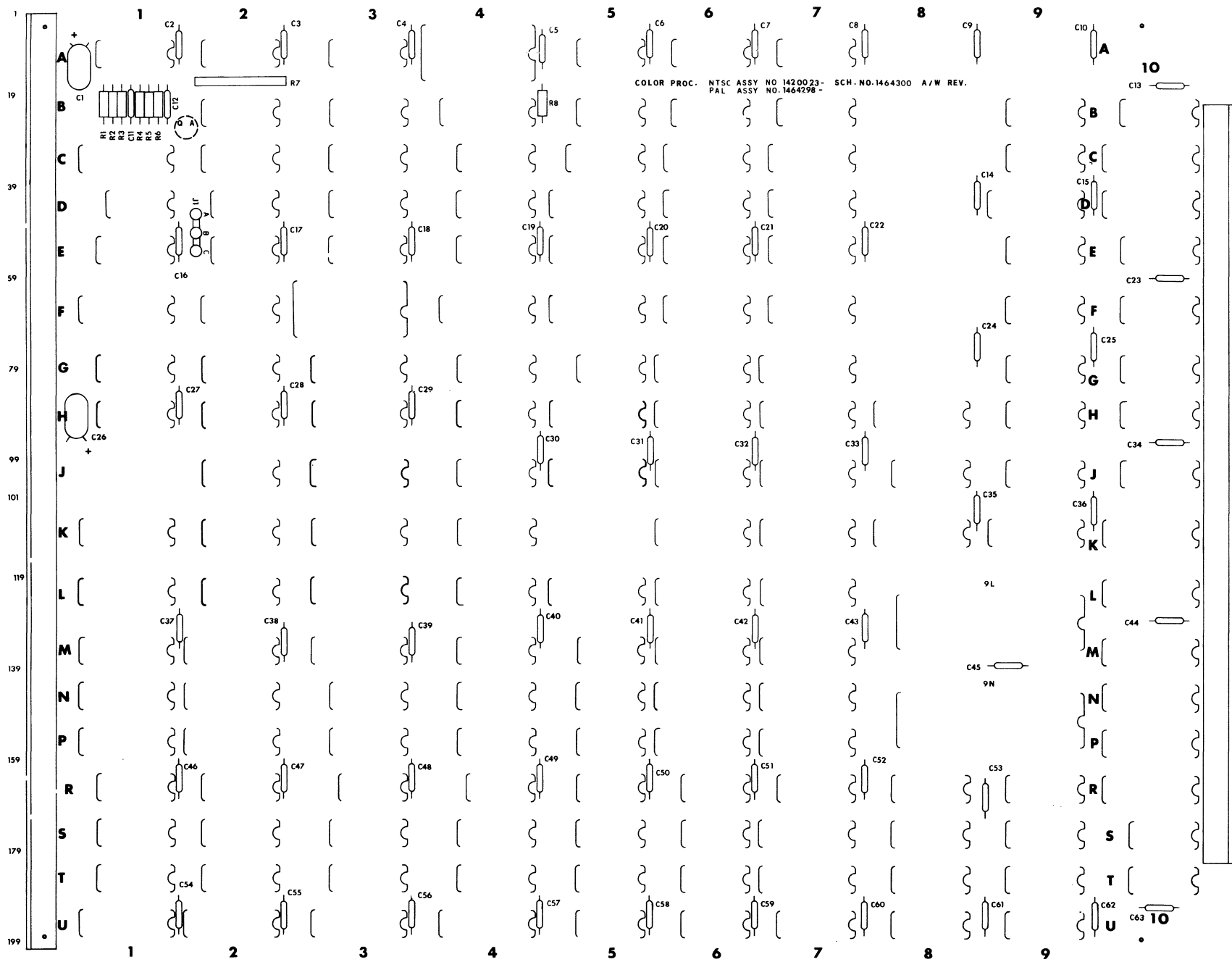
Schematic No. 1464264A.
 Y Memory PWA, A2-A6, A16, A17
 (Sheet 7 of 7)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-02	-03	-04	-05	-06	-07	-08			
1													
2													
3	1420025	SCHEMATIC		M	H	P	R	S					
4	1464300	SCHEMATIC							C	D			
5	1409670-AX	LABEL, EXTRACTOR ARM, PWA				1	1	1					
6	1409976-AA	INSULATOR, STIFFENER				1	1	1					
7	1409976-AB	INSULATOR, STIFFENER				1	1	1					
8	1409997-AA	STIFFENER, PWB				1	1	1					
9	1409997-AB	STIFFENER, PWB				1	1	1					
10													
11	1420248-01	PROM ASSY	REF: TBP18S030	2J		1	1	1					
12	1420249-01		TBP18S030	2K		1	1	1					
13	1420250-01		DM87S181	3F		1	1	1					
14	1420251-01		DM87S181	4A		1	1	1					
15	1420252-01		TBP28S42	4B		1	1	1					
16	1420253-01		TBP18S030	4D		1	1	1					
17	1420254-01			4E		1	1	1					
18	1420255-01			4L		1	1	1					
19	1420256-01	PROM ASSY	REF: TBP18S030	4M		1	1	1					
20													
21	037-965	CAPACITOR, TANT., 120uF, 10V, ±20%	C1,26		2	2	2	2	2	2	2		
22	064-652	CAPACITOR, CER., .01uF, 50V, ±20%	C11,12		2	2	2	2	2	2	2		
23	064-653	CAPACITOR, CER., .1uF, 50V, ±20%	C2-10,13-25, 27-63		59	59	59	59	59	59	59		
24	000-007	INTEGRATED CIRCUIT, 25S10	1G,H,2G,H,L		5	5	5	5	5	5	5		
25	001-086		74H87	5S,T,6S,T	4	4	4	4	4	4	4		
26	589-837		74S00	1D,6U	2	2	2	2	2	2	2		
27	589-838		74S04	2E,5N,U	3	3	3	3	3	3	3		
28	589-846		74S74	5G,R	2	2	2	2	2	2	2		
29	590-842		74S157	1E	1	1	1	1	1	1	1		
30	000-152		10125	2B	1	1	1	1	1	1	1		
31	590-543		10116	1A	1	1	1	1	1	1	1		
32	589-847		74S86	6R	1	1	1	1	1	1	1		
33	589-937		74S174	7R,U,8S,T	4	4	4	4	4	4	4		
34	589-823		74LS138	1T,2T	2	2	2	2	2	2	2		
35	589-820		74LS74	3R,5B	2	2	2	2	2	2	2		
36	590-845	INTEGRATED CIRCUIT, 74S32	2D,4R,5P,10S		4	4	4	4	4	4	4		
37	001-091	INTEGRATED CIRCUIT, 74S112	3E		-	1	-	-	1	1	1		

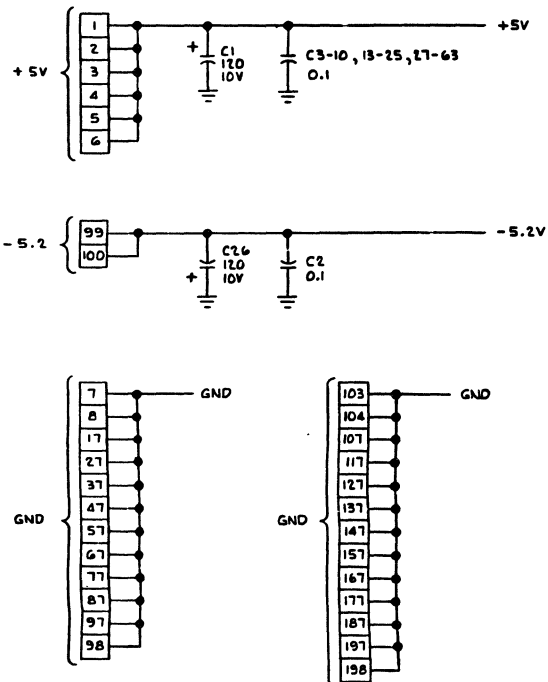
LM-1420023

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-02	-03	-04	-05	-06	-07	-08			
38	589-814	INTEGRATED CIRCUIT, 74LS04	10T	1				1	1		1		
39	001-077		10176	2A	1			1	1		1		
40	590-843		74S85	3S,T,4S,T	4	4	4	4	4	4	4		
41	589-830		74LS174	2F	1			1	1		1		
42	590-561		74LS112	3E	1								
43	589-931		74LS30	5A	1			1	1		1		
44	590-606		74LS283	2C,3C,N,P,4C, N,P,5C,8J,9B,C, E,F,G,H,J,10B, E,F,G,H,J	22	22	22	22	22	22	22	22	22
45	589-850		74S163	3A,B,D	3	3	3	3	3	3	3		
46	590-335		74LS273	1U,2U,3U,4U	4	4	4	4	4	4	4		
47	590-855		74S374	1C,F,K,3G,H,J, K,L,M,4F,5D,E, F,H,J,L,6J,K,L,P,7J, K,L,P,S,T	26	26	26	26	26	26	26	26	26
48	590-586		74LS374	1M,N,P,2M,6G, H,M,N,7C,H,M, N,8H,K,9D,K,10C,D,K, L,M,N,P,R	24	24	24	24	24	24	24	24	24
49	000-128		74S283	4G,H,J,K,8R,U, 9R,S,T,U	10	10	10	10	10	10	10	10	10
50	590-227		25S09	1R,S,2R,S,6A, B,7A,B	8	8	8	8	8	8	8		
51	590-863		25LS2517	1L	1	1	1	1	1	1	1		
52	590-987		MPY8HJ-1	9L,N	2	2	2	2	2	2	2		
53	590-988		2148H-3	6C,D,E,F,7C,D, E,F	8	8	8	8	8	8	8		
54	589-839		74S08	5M	1	1		1	1		1		
55	590-668	INTEGRATED CIRCUIT, 74S373	2N,P	2	2	2	2	2	2	2	2		
56	039-163	RESISTOR, NETWORK, 470 OHM, 10 PIN SIP	R7	1	1			1	1		1		
57	066-811	RESISTOR, C.F., 51 OHM, 1/4W, 5%	R1,2,4,5	4	4	4	4	4	4	4	4		
58	066-838	RESISTOR, C.F., 330 OHM, 1/4W, 5%	R3,6,8	3	3	3	3	3	3	3	3		
59	589-825	INTEGRATED CIRCUIT, 74LS157	1E			1							
60	590-461	INTEGRATED CIRCUIT, 74LS112	3E			1		1					
61													
62													
63	582-333	I.C., MTG HDW., SOCKET, 20 PIN	REF:1C,F,L,K,M,N,P,U,2M,N, P,U,3G,H,J,K,L,M,U,4B, F,U,5D,E,F,H,J,L,6G,H, J,K,L,M,N,P,7G,H,J,K, L,M,N,P,S,T,8H,X,9D,K, 10C,D,K,L,M,N,P,R	58	58	58	58	58	58	58	58	58	58
64	582-330	14 PIN	REF:1D,2D,E,3R,4R,5A,B,G,M, N5P,R,S,T,U,6R,S,T,U,10ST	21	21	21	21	21	21	21	21	21	21
65	582-332	18 PIN	REF:6C,D,E,F,7C,D,E,F	8	8	8	8	8	8	8	8		
66	582-280	24 PIN	REF:3F,4A	2	2	2	2	2	2	2	2		
67	582-282	40 PIN	REF:9L,N	2	2	2	2	2	2	2	2		
68	582-331	I.C., MTG HDW., SOCKET, 16 PIN	REF:1A,E,G,H,R,S,T,2A,B,C, F,G,H,J,2K,L,R,S,T,3A, B,C,D,E,N,P,S,T,4C,D,E,G, H,J,K,L,M,N,P,S,T,5C,6A,B, 7A,B,R,U,8J,R,S,T,U,9B,C,E, F,G,H,J,R,S,T,U,10B,E,F,G,H,J	70	70	70	70	70	70	70	70	70	70
69	471-060	SCREW, PAN HD., X-REC, 4-40 X .250 LG		6	6	6	6	6	6	6	6		
70	493-005	NUT, HEX, NYLON LOCK, 4-40		6	6	6	6	6	6	6	6		
71	530-477	ENCLOSURE PART, CARD INSERTER/EXTRACTOR		2	2	2	2	2	2	2	2		
NOTES:													
			STATIC SENSITIVE DEVICE, SPECIAL HANDLING REQUIRED PER AMPEX HE1-1.										

LM-1420023



Assembly No. 1420023-08S. Color Processor PWA, A7, A18, NTSC



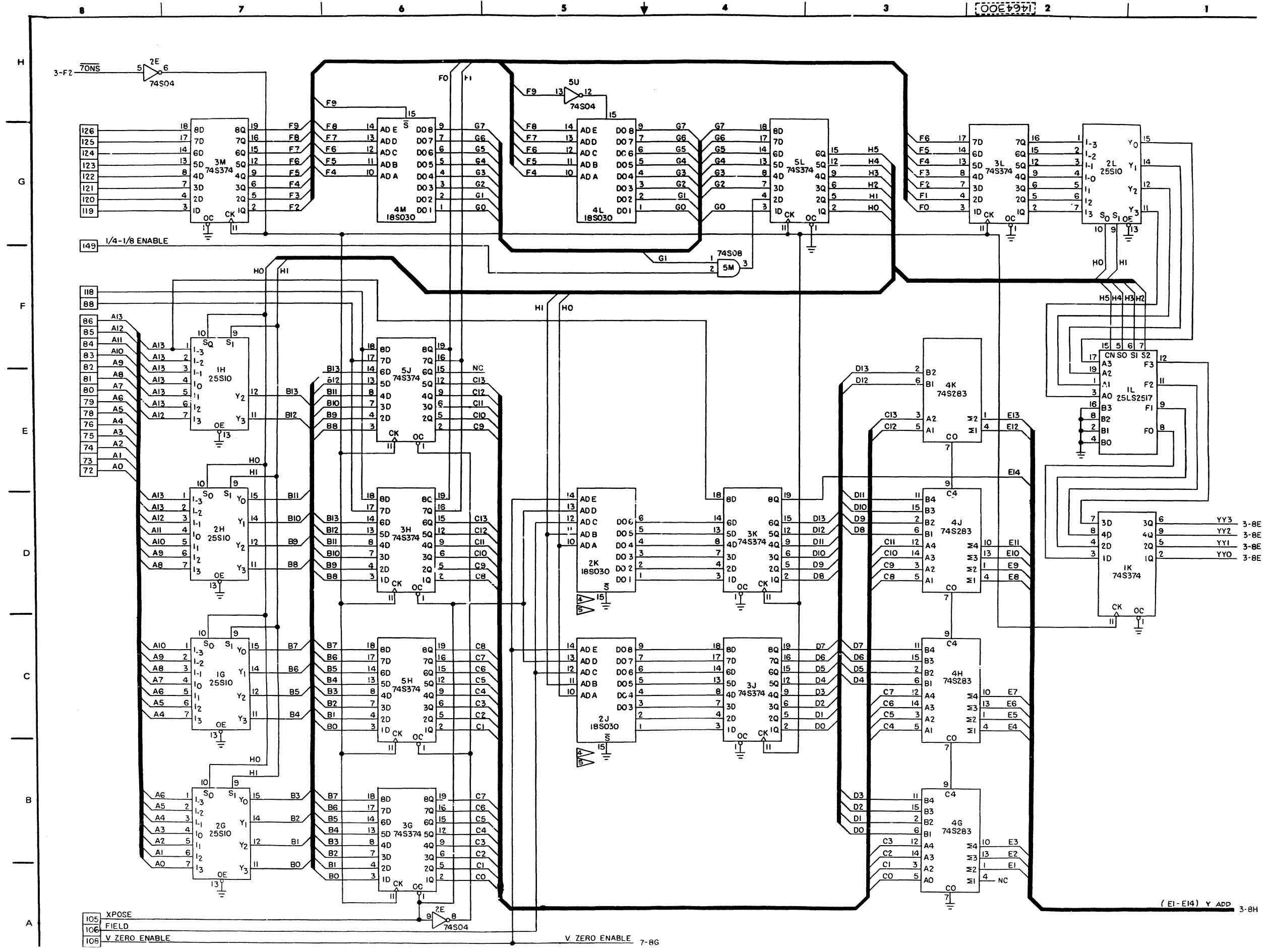
REFERENCE DESIGNATIONS	
LAST USED	NOT USED
C63	
J1	
RB	

- UNLESS OTHERWISE SPECIFIED:
- RESISTANCE VALUES ARE IN OHMS 1/4W, 5%.
- CAPACITANCE VALUES ARE IN MICROFARADS.
- STATIC SENSITIVE DEVICE SPECIAL HANDLING REQUIRED PER AMPEX STANDARD ME-1.
- PROMS USED WITH NTSC PWA 142002B.
- PROMS USED WITH PAL PWA 146429B.

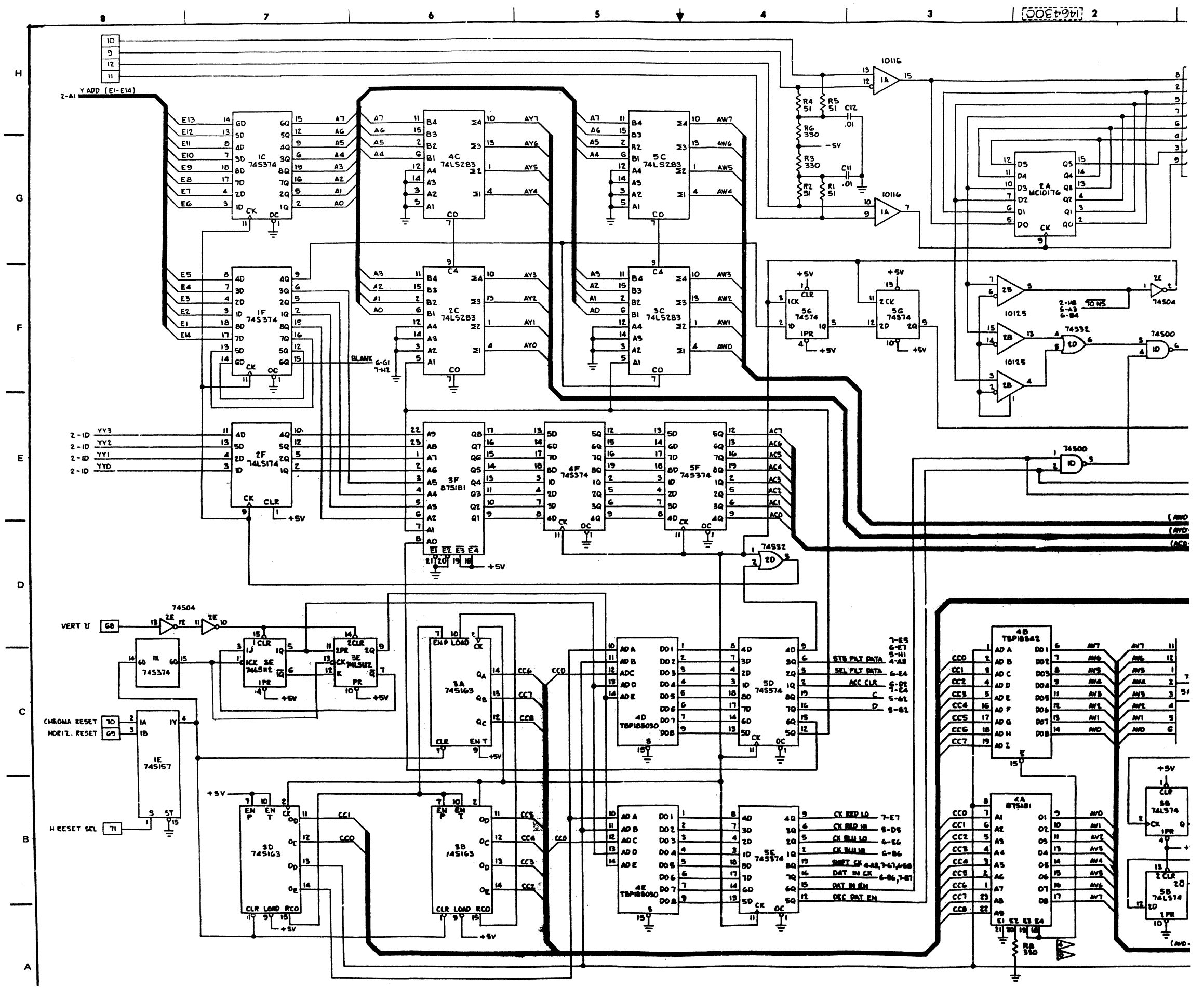
I.C. DEVICE TABLE											
REFERENCE DESIGNATION	VENDOR P/N	AMPEX P/N	GND PINS			PWR PINS					
			A	D	E	+5VA	+5VD	+5VA	+5VD	+5VA	+5VD
1G, H, 2G, H, L	25910	000-007	8			16					
3S, T, 6S, T	74H87	586-748	7			14					
1D, 6U	74S00	589-837	7			14					
2E, 5N, U	74S04	589-838	7			14					
5G, R	74S74	589-846	7			14					
1E	74S157	590-842	7			14					
2B	10125	587-132	16	9		8					
1A	10116	590-543	1,16			8					
6R	74S86	589-847	7			14					
7R, U, 8S, T	74S174	589-937	8			16					
1T, 2T	74LS138	589-823	8			16					
3R, 5B	74LS74	589-820	7			14					
2D, 4R, 5P, 10S	74S32	590-845	7			14					
3E	74LS112	001-091	8			16					
10T	74LS04	589-814	7			14					
2A	10176	587-551	1,16			8					
3S, T, 4S, T	74S85	590-843	8			16					
2F	74LS174	589-830	8			16					
5A	74LS30	589-931	7			14					
2C, 3C, N, P, 4C, N, P, 5C, 8J, 9B, C, E, F, G, H, J, 10B, E, F, G, H, J	74LS283	590-606	8			16					

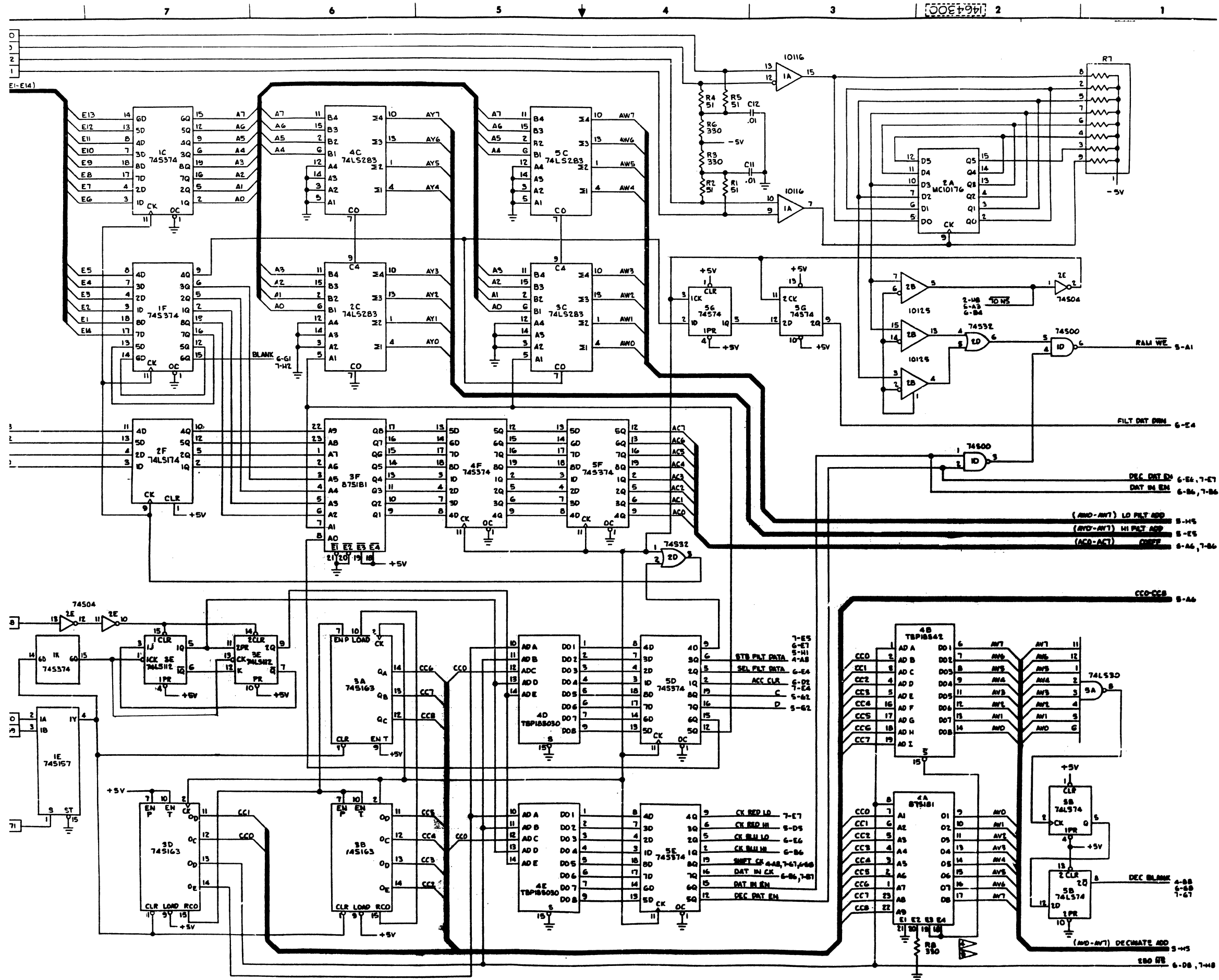
I.C. DEVICE TABLE											
REFERENCE DESIGNATION	VENDOR P/N	AMPEX P/N	GND PINS			PWR PINS					
			A	D	E	+5VA	+5VD	+5VA	+5VD	+5VA	+5VD
3A, B, D	74S163	589-850	8			16					
1U, 2U, 3U, 4U	74LS273	590-335	10			20					
1C, F, K, 3G, H, J, K, L, M, 4F, 5D, E, F, H, J, L, 6J, K, L, P, 7J, K, L, P, S, T	74S374	590-855	10			20					
1M, N, P, 2M, 6G, H, M, N, 7G, H, M, N, 8H, K, 9D, K, 10C, D, K, L, M, N, P, R	74LS374	589-537	10			20					
4G, H, J, K, 8R, U, 9R, S, T, U	74S183	589-605	8			16					
1R, 5, 2R, S, 6A, B, 7A, B	25909	590-227	8			16					
1L	25LS2517	590-863	10			20					
9L, N	HPY84J-1	590-987	32			30					
6C, D, E, F, 7C, D, E, F	2148H-3	590-988	9			18					
5M	74S08	589-839	7			14					
2N, P	74S373	590-648	10			20					
2J	TBP185030	1420248-01	8			16					
2K	TBP185030	1420249-01	8			16					
3F	DMB7S181	1420250-01	12			24					
4A	DMB7S181	1420251-01	12			24					
4B	TBP18542	1420252-01	10			20					
4D	TBP185030	1420253-01	8			16					
4E	TBP185030	1420254-01	8			16					
4L	TBP185030	1420255-01	8			16					
4M	TBP185030	1420256-01	8			16					
4A	DMB7S181	1464335-01	12			24					
2J	TBP185030	1464336-01	8			16					
2K	TBP185030	1464337-01	8			16					

Schematic No. 1464300D. Color Processor PWA, A7, A18 (Sheet 1 of 7)

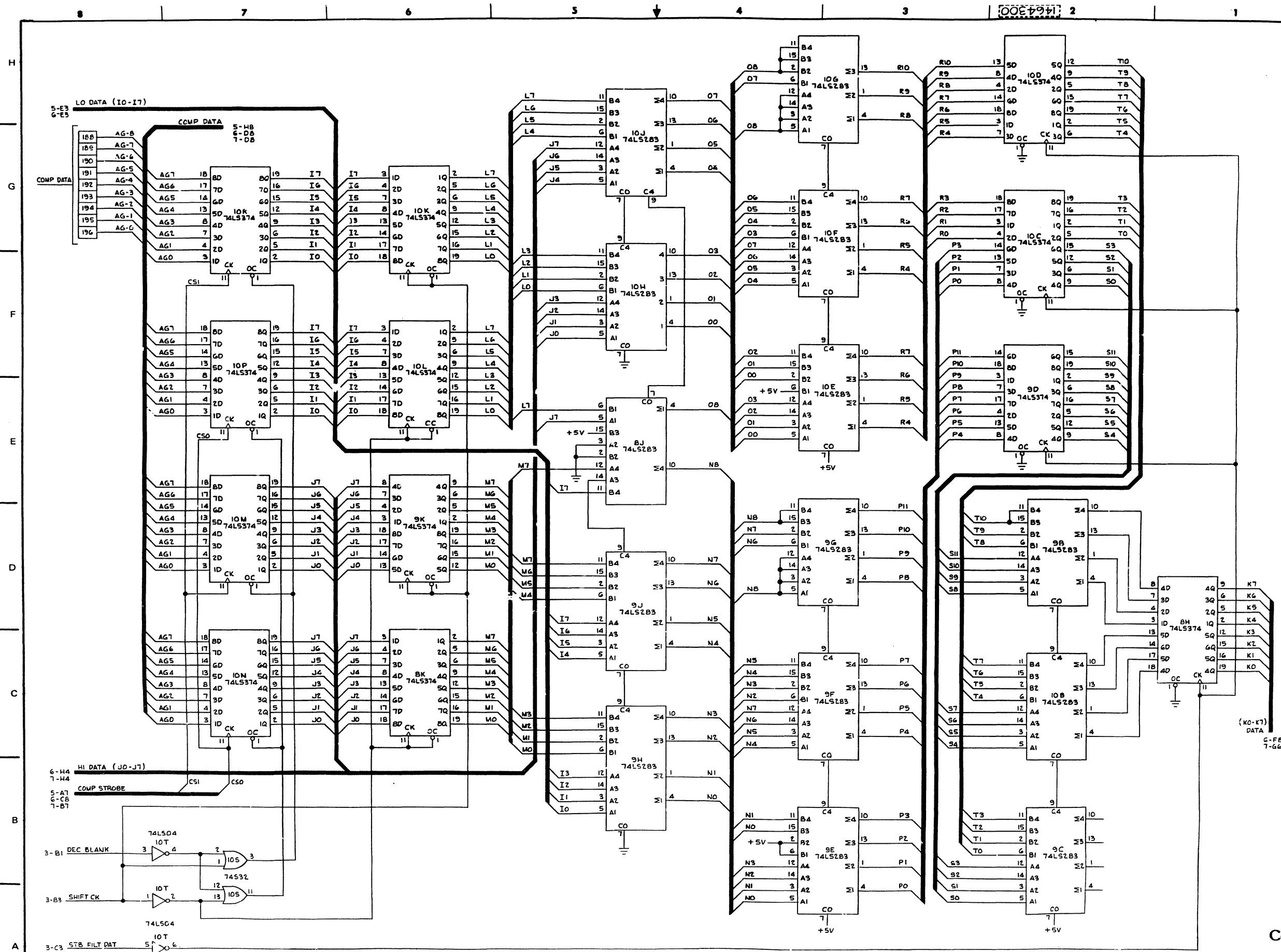


Schematic No. 1464300E.
 Color Processor PWA, A7, A18
 (Sheet 2 of 7)

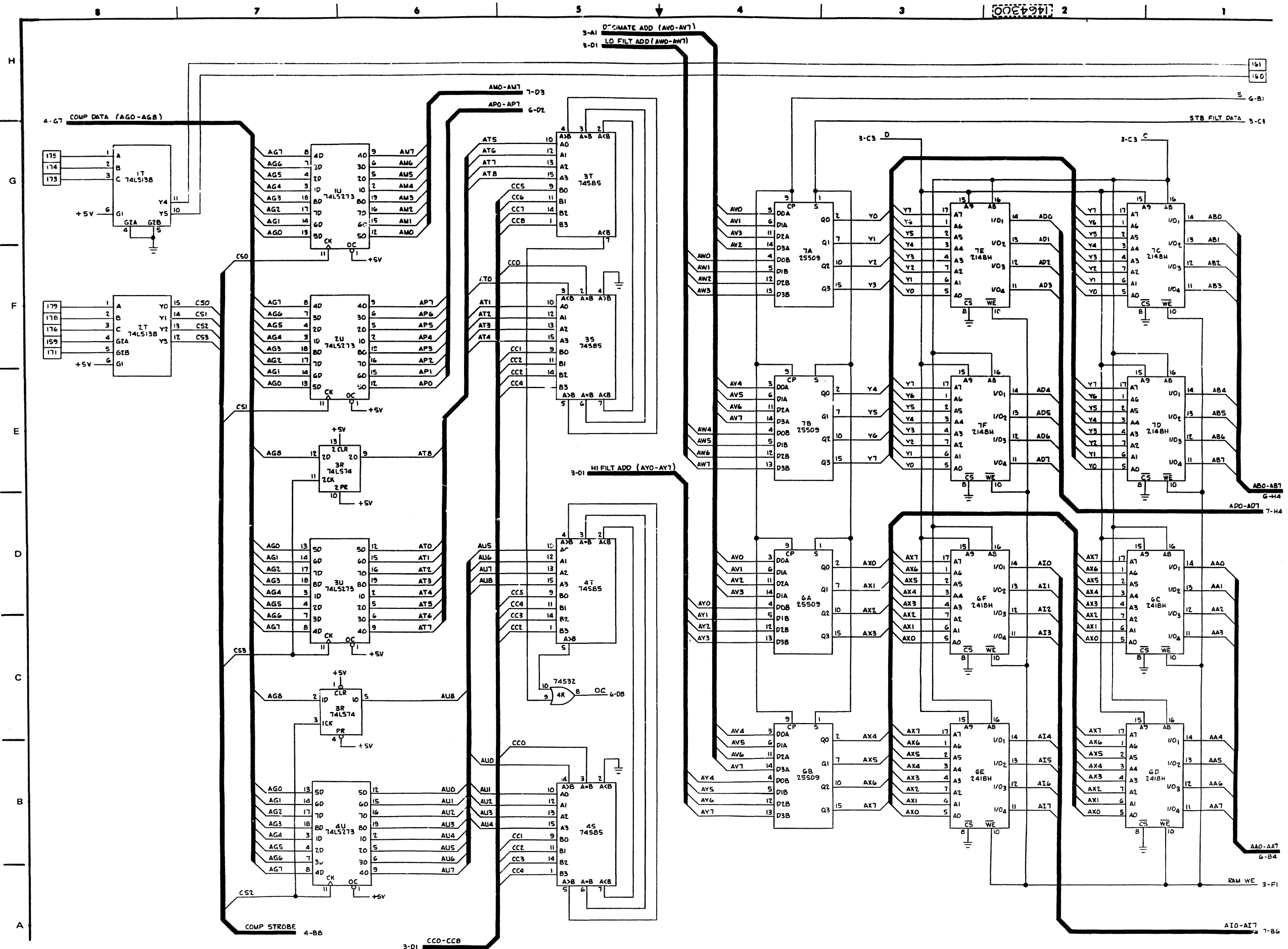




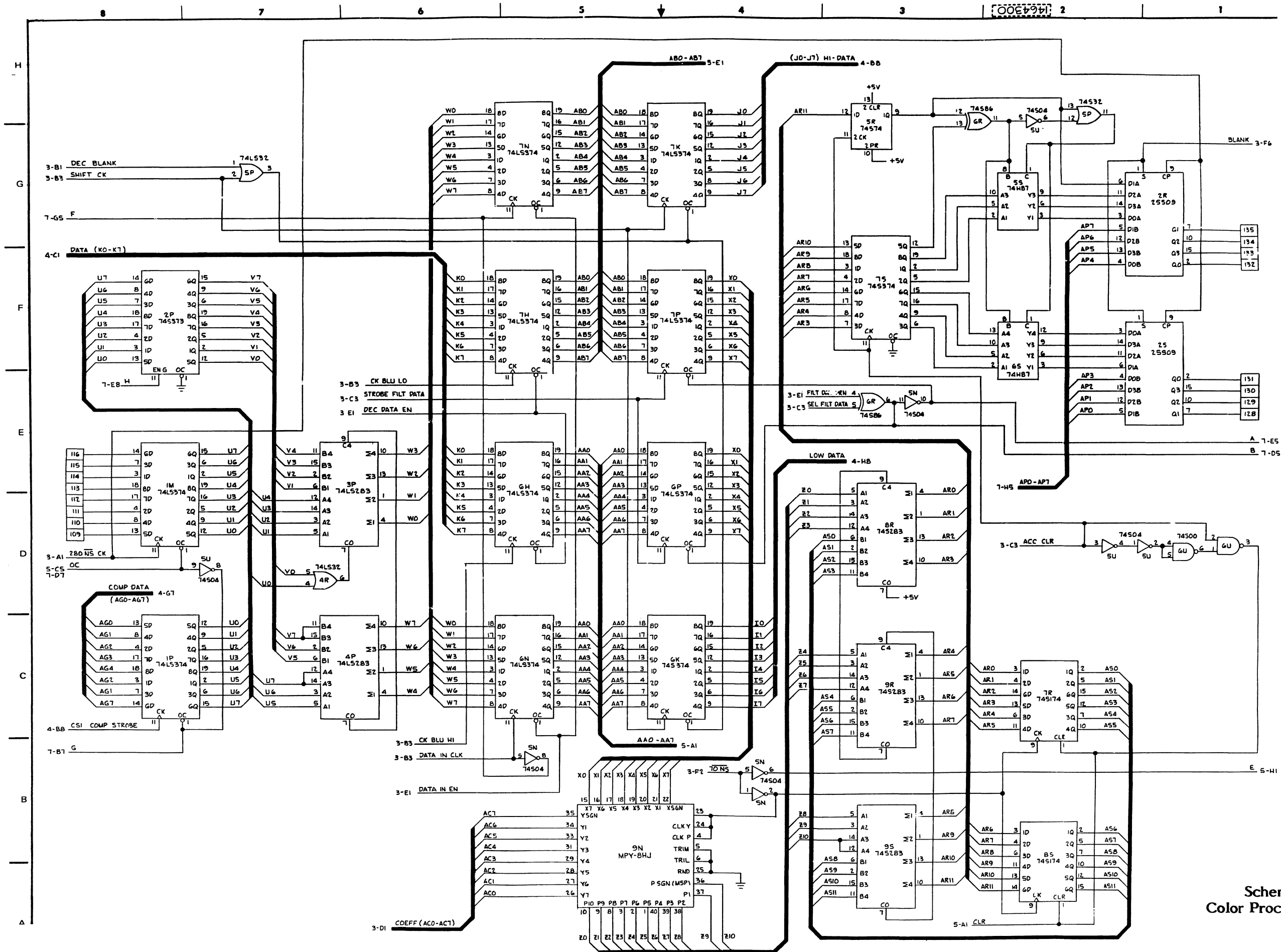
Schematic No. 1464300E.
Color Processor PWA, A7, A18
(Sheet 3 of 7)



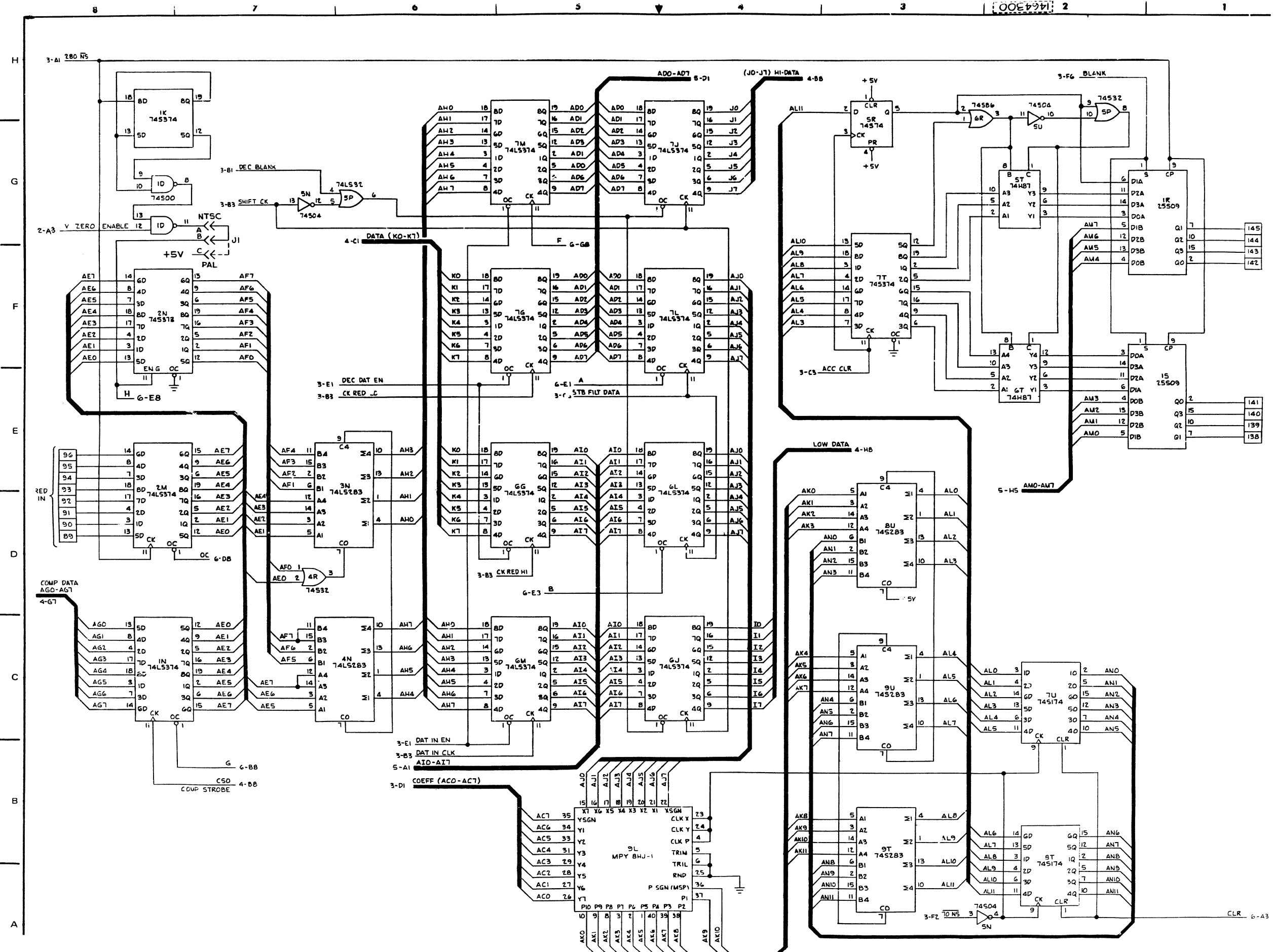
Schematic No. 1464300E.
Color Processor PWA, A7, A18
(Sheet 4 of 7)





Schematic No. 1464300E.
Color Processor PWA, A7, A18
(Sheet 5 of 7)



Schematic No. 1464300E.
 Color Processor PWA, A7, A18
 (Sheet 6 of 7)



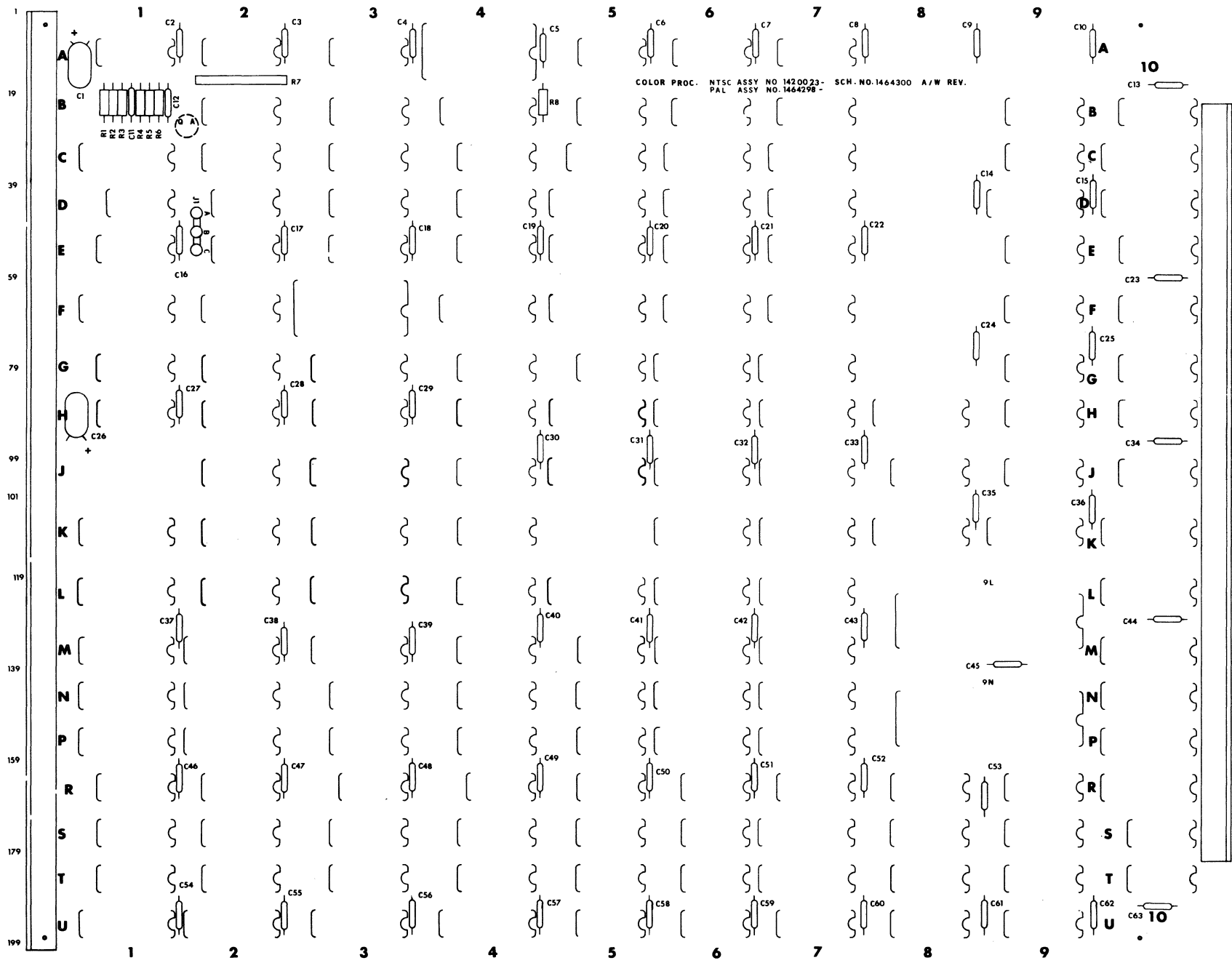
Schematic No. 146300E.
Color Processor PWA, A7, A18
(Sheet 7 of 7)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER			
				-01	-02	-03	-04
1							
2							
3	1464300	SCHEMATIC		(-)	C	D	E
4							
5	1409670-AX	LABEL, EXTRACTOR ARM, PWA		1	1		1
6	1409976-AA	INSULATOR, STIFFENER		1	1		1
7	1409976-AB	INSULATOR, STIFFENER		1	1		1
8	1409997-AA	STIFFENER, PWB		1	1		1
9	1409997-AB	STIFFENER, PWB		1	1		1
10							
11	1420250-01	PROM ASSY 	REF: DM87S181	3F	1	1	1
12	1420252-01		TBP28S42	4B	1	1	1
13	1420253-01		TBP18S030	4D	1	1	1
14	1420254-01		TBP18S030	4E	1	1	1
15	1420255-01		TBP18S030	4L	1	1	1
16	1420256-01		TBP18S030	4M	1	1	1
17	1464335-01		 DM87S181	4A	1	1	1
18	1464336-01		TBP18S030	2J	1	1	1
19	1464337-01	PROM ASSY	REF: TBP18S030	2K	1	1	1
20							
21							
22	064-652	CAPACITOR, CER., .01uF, 50V, ±20%	C11,12	2	2	2	2
23	064-653	CAPACITOR, CER., .1uF, 50V, ±20%	C2-10,13-25, 27-63	59	59	59	59
24							
25	037-965	CAPACITOR, TANT., 120uF, 10V, ±20%	C1,26	2	2	2	2
26							
27	000-007	INTEGRATED CIRCUIT, 25S10	1G,11,2G,H,L	5	5	5	5
28	000-128		74S283	4G,H,J,K,8R, U,9R,S,T,U	10	10	10
29	000-152		10125	2B	1	1	1
30	001-077		10176	2A	1	1	1
31	001-086		74H87	5S,T,6S,T	4	4	4
32	589-814		74LS04	10T	1	1	1
33	589-820		74LS74	3R,5B	2	2	2
34	589-823		74LS138	1T,2T	2	2	2
35	589-825		74LS157	1E	1	-	-
36	589-830		74LS174	2F	1	1	1
37	589-837	INTEGRATED CIRCUIT, 74S00	1D,6U	2	2	2	2

LM-1464298

AMPEX		AmpeX Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM-1464298	REV J
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER			
				-01	-02	-03	-04
38	589-838	INTEGRATED CIRCUIT, 74S04	2E,5M,U	3	3	3	3
39	589-839	74S08	5M	1	1	1	1
40	589-846	74S74	5G,R	2	2	2	2
41	589-847	74S86	6R	1	1	1	1
42	589-850	74S163	3A,B,D	3	3	3	3
43	589-931	74LS30	5A	1	1	1	1
44	589-937	74S174	7R,U,8S,T	4	4	4	4
45	590-227	25S09	1R,5,2R,5,6A B,7A,B	8	8	8	8
46	590-335	74LS273	1U,2U,3U,4U	4	4	4	4
47	590-461	74LS112	3E	1	1	-	-
48	590-543	10116	1A	1	1	1	1
49	590-586	74LS374	1M,N,P,2M,6G, H,M,N,7G,H, M,N,8H,K,9D,K,10C,D, K,L,M,N,P,R	24	24	24	24
50	590-606	74LS283	2C,3C,N,P,4C, N,P,5C,8J,9B, C,E,F,G,H,J, 10B,E,F,G,H,J	22	22	22	22
51	590-668	74S373	2N,P	2	2	2	2
52	590-843	74S85	3S,T,4S,T	4	4	4	4
53	590-845	74S32	2D,4R,5P,10S	4	4	4	4
54	590-855	74S374	1C,F,K,3G,H, J,K,L,M,4F, 5D,E,F,H,J,L,6J,K,L, P,7J,K,L,P,S,T	26	26	26	26
55	590-863	25LS2517	1L	1	1	1	1
56	590-987	HPY8HJ-1	9L,N	2	2	2	2
57	590-988	INTEGRATED CIRCUIT, 2148H-3	6C,D,E,F,7C, D,E,F	8	8	8	8
58	590-842	INTEGRATED CIRCUIT, 74S157	1E	1	1	1	1
59	001-091	INTEGRATED CIRCUIT, 74S112	3E	-	-	1	1
60							
61	039-163	NETWORK RESISTOR, 470 OHM, 10 PIN SIP	R7	1	1	1	1
62							
63	066-811	RESISTOR, C.F., 51 OHM, 1/4W, 5%	R1,2,4,5	4	4	4	4
64	066-838	RESISTOR, C.F., 330 OHM, 1/4W, 5%	R3,6,8	3	3	3	3
65							
66	602-044	SHORTING PLUG, RED	J1	1	1	1	1
67							
68	143-981	CONN., SIGNAL CKT, P.C. TIP	REF: J1-A,B,C	3	3	3	3
69							
70	582-280	I.C., MTG HDW., SOCKET, 24 PIN	REF:3F,4A	2	2	2	2
71	582-282	40 PIN	REF:9L,N	2	2	2	2
72	582-330	14 PIN	REF:1D,2D,E,3R,4R,5A,B,G,M N,5P,R,S,T,U,6R,S,T,U,10S,T	21	21	21	21
73	582-331	16 PIN	REF:1A,E,G,H,R,S,T,2A,B,C, F,G,H,J,2K,L,R,S,T,3A, B,C,D,E,N,P,S,T,4C,D,E,G,H, J,K,L,M,N,P,S,T,5C,6A,B,7A, B,R,U,8J,R,S,T,U,9B,C,E,F, G,H,J,R,S,T,U,10B,E,F,G,H,J	70	70	70	70
74	582-332	18 PIN	REF:6C,D,E,F,7C,D,E,F	8	8	8	8
75	582-333	I.C., MTG HDW., SOCKET, 20 PIN	REF:1C,F,L,K,M,N,P,U,2M,N, P,U,3G,H,J,K,L,M,U,4B, F,U,5D,E,F,H,J,L,6G,H,J,K, L,M,N,P,7G,H,J,K,L,M,N,P,S, T,8H,K,9D,K,10C,D,K,L,M,N, P,R	58	58	58	58

LM-1464298



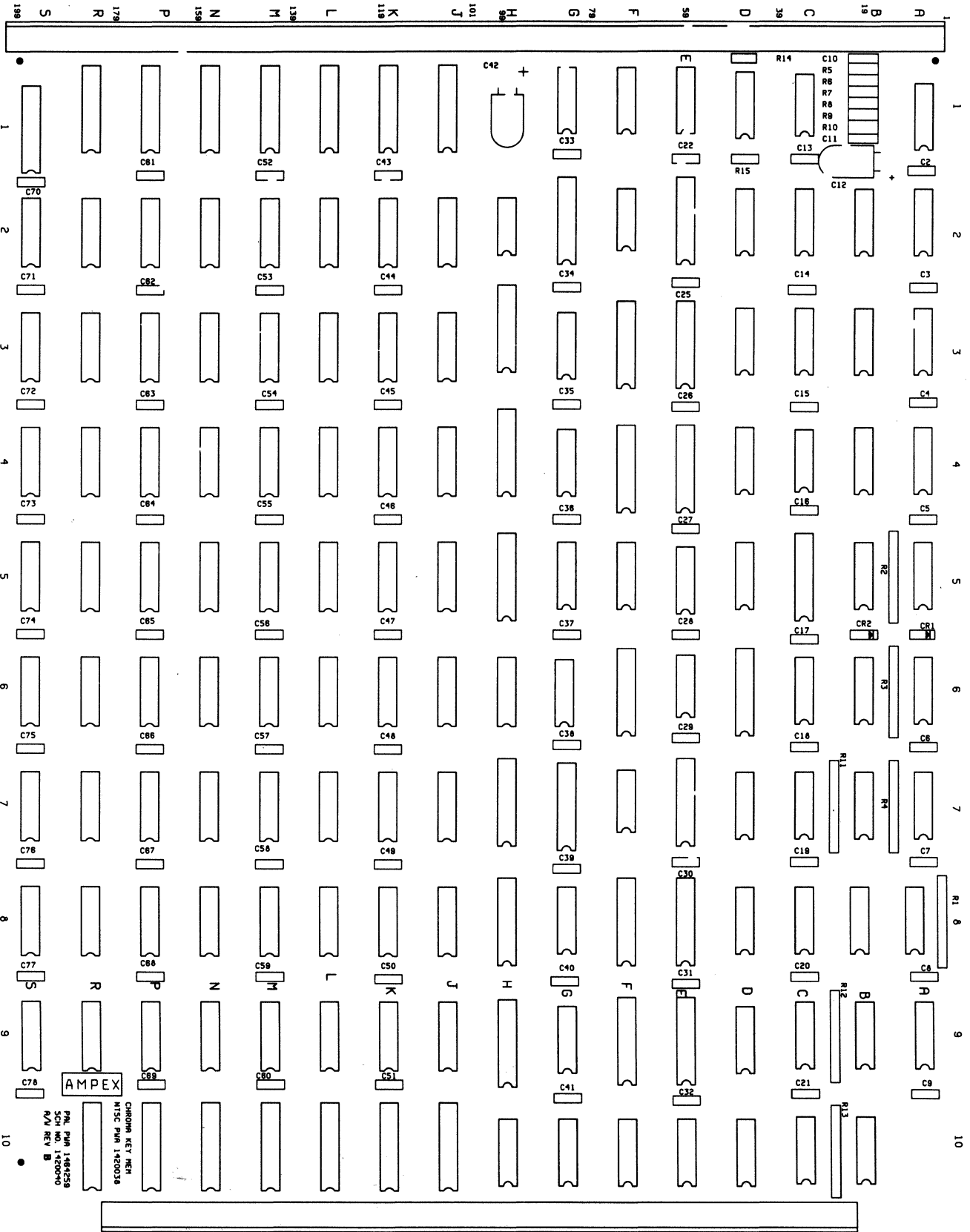
Assembly No. 1464298-04J. Color Processor PWA, A7, A18, PAL

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER								
				-04	-05	-06	-07					
1												
2												
3	1420040	SCHEMATIC										
4	1464261	SCHEMATIC										
5	1409670-BK	LABEL, EXTRACTOR ARM, PWA										
6	1409976-AA	INSULATOR, STIFFNER										
7	1409976-AB	INSULATOR, STIFFNER										
8	1409997-AA	STIFFNER, PWB										
9	1409997-AB	STIFFNER, PWB										
10												
11	1420354-01	PROM ASSY	REF: 1013y 8A									
12	1420355-01		REF: 10139 7C									
13	1420356-01		REF: TBP18S030 5D									
14	1420357-01		10D									
15	1420358-02		1G									
16	1420359-02		5G									
17	1420360-01	PROM ASSY	REF: TBP18S030 10G									
18												
19	037-965	CAPACITOR, TANT., 120uF, 10V, ±20%	C12,42									
20	064-652	CAPACITOR, CER., .01uF, 50V, ±20%	C10,11									
21	064-653	CAPACITOR, CER., .1uF, 50V, ±20%	C2-9,13-22,25-41,43-78									
22												
23	013-689	DIODE, SWITCHING	CR1,2									
24												
25	589-838	INTEGRATED CIRCUIT, 74S04	1C									
26	590-842		74S157 3G,4G,8G,9G,10H									
27	590-564		10124 4A,B									
28	000-152		10125 6C,9B,10B,C									
29	590-326		10131 5A,B									
30	589-813		74LS00 4C,6E									
31	589-934		74LS221 1D									
32	587-550		10136 7A,B									
33	001-077		10176 8B,C,9A,C									
34	590-330		10115 1A									
35	590-333		74LS163 5F,E,2D,3D,4D,10F,E,7D,8D,9D									
36	589-824		74LS153 2A,B,C,3A,B,C,1E,F									
37	589-935	INTEGRATED CIRCUIT, 74LS393	2F,7F									

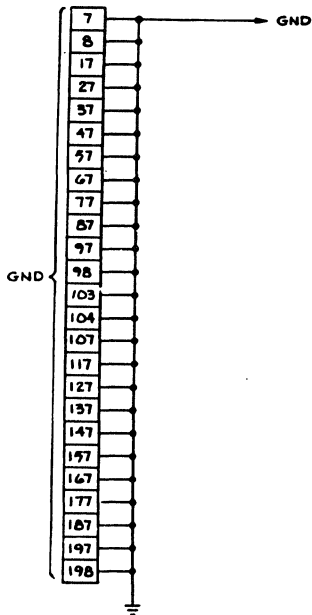
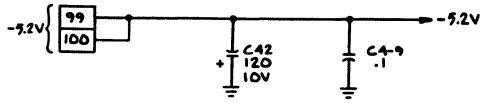
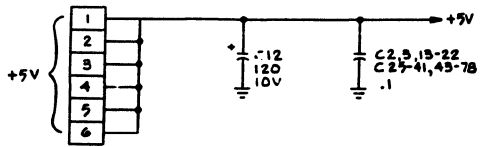
LM-1420038

AMPEX		Ampex Corporation Redwood City, California		CODE IDENT NO 92739	LIST OF MATERIALS			LM- 1420038	SHEET 2 OF 2	REV N	
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER							
				-02	-03	-04	-05	-06	-07		
38	589-820	INTEGRATED CIRCUIT, 74LS74	2H				1				1
39	589-508		10135	6A,B			2	2	2		2
40	590-855		74S374	1J,K,L,M			4	4	4		4
41	590-586		74LS374	1P,R,S,2G,3F,4F,8F,9F,7G,1N			10	10	10		10
42	590-868		74S244	3H,4H,5H,7H,8H,9H	6		6	6	6		6
43	590-863		25LS2517	2E,3E,4E,7E,8E,9E	6		6	6	6		6
44	590-989	INTEGRATED CIRCUIT, TMS4164JDL-15		2J,K,L,M,N,P,R,S,3J,K,L,M,N,P,R,S,4J,K,L,M,N,P,R,S,5J,K,L,M,N,P,R,S,6J,K,L,M,N,P,R,S,7J,K,L,M,N,P,R,S,8J,K,L,M,N,P,R,S,9J,K,L,M,N,P,R,S	64		64	64	64		64
45											
46	039-163	RESISTOR, NETWORK, 470 OHM, 10 PIN	R1-4,11-13		7		7	7	7		7
47	066-811	RESISTOR, C.F., 51 OHM, 1/4W, 5%	R6-9				4	4	4		4
48	066-838	RESISTOR, C.F., 330 OHM, 1/4W, 5%	R5,10				2	2	2		2
49	066-847	RESISTOR, C.F., 33K OHM, 1/4W, 5%	R14,15				2	2	2		2
50											
51											
52											
53											
54											
55	582-333	I.C., MTG HDW., SOCKET, 20 PIN	REF:1J,K,L,M,N,P,R,S,2E,G,3E,F,H,4E,F,H,5H,7E,G,H,8E,F,H,9E,H,F		25		25	25	25		25
56	582-330		14 PIN REF:1C,2F,H,4C,6E,7F		6		6	6	6		6
57	582-331	I.C., MTG HDW., SOCKET, 16 PIN	REF:1A,D,E,F,G,2A,B,C,D,J,K,L,M,N,P,R,S,3A,B,C,D,G,J,K,L,M,N,P,R,S,4A,B,D,G,J,K,L,M,N,P,R,S,5A,B,D,E,F,G,J,K,L,M,N,P,R,S,6A,B,C,J,K,L,M,N,P,R,S,7A,B,C,D,J,K,L,M,N,P,R,S,8A,B,C,D,G,J,K,L,M,N,P,R,S,9A,B,C,D,G,J,K,L,M,N,P,R,S,10B,C,D,E,F,G,H	112		112	112	112		112	
58	471-060	SCREW, PAN HD., X-REC, 4-40 X .250 LG			6		6	6	6		6
59	493-005	NUT HEX, NYLON LOCK, 4-40			6		6	6	6		6
60	530-477	ENCLOSURE PART, CARD INSERTER/EXTRACTOR			2		2	2	2		2
NOTES:											
		STATIC SENSITIVE DEVICE, SPECIAL HANDLING									
		REQUIRED PER AMPEX STD. HEI-1									

LM-1420038



Assembly No. 1420038-07N. Chroma/Key Memory PWA, A8, A19, NTSC



NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
- ▶ PROMS USED WITH NTSC PWA 1420038
 - ▶ PROMS USED WITH PAL PWA 1464259
 - ▶ STATIC SENSITIVE DEVICE, SPECIAL HANDLING REQUIRED PER AMPEX STD HEI-1.

REF DESIGNATIONS	
LAST USED	NOT USED
R15	
C7B	C1,23,24
CR2	

ZH	1E,F, 2A,B,C 3A,B,C	3G,4G,8G, 9G,10H	2D,3D,4D,7E,F 7D,8D,9D,10E,F	ID
589-820	589-824	590-842	590-553	589-934
74LS74	74LS193	74LS157	74LS163	74LS221
+5V(14)	+5V(16)	+5V(16)	+5V(16)	+5V(16)
(7)	(8)	(8)	(8)	(8)
5A,B	6A,B	7A,B	8B,C,9A,C	2J-5, 3J-5, 4J-5, 5J-5, 6J-5, 7J-5, 8J-5, 9J-5
590-326	589-508	587-550	587-551	590-989
10131	10135	10136	10176	TMS4164JDL-15
-5V(8)	-5V(8)	-5V(8)	-5V(8)	+5V(8)
(1,16)	(1,16)	(1,16)	(1,16)	(16)

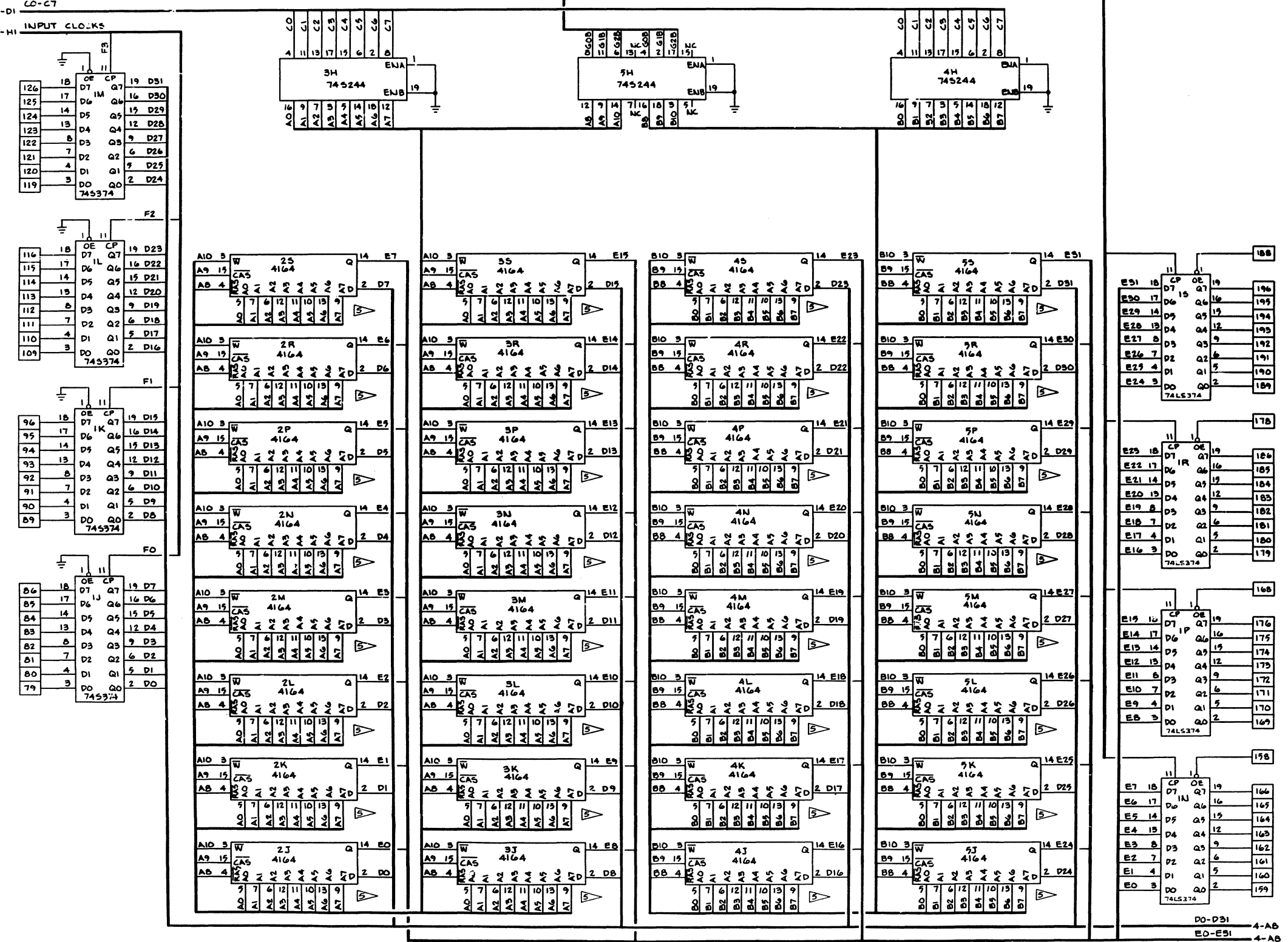
REF DES	8A	5G,10G ▶
AMPEX P/N	1420354-01	146433B-01
VENDOR P/N	10139	TBP185030
VOLTAGE PIN	+5V(16)	+5V(16)
GND PIN	(8)	(8)

REF DES	7C	5D	10D	1G	5G ▶	10G ▶	4C, 6E	1C
AMPEX P/N	1420355-01	1420356-01	1420357-01	1420358-02	1420359-02	1420360-01	589-813	589-838
VENDOR P/N	10139	TBP185030	TBP185030	TBP185030	TBP185030	TBP185030	74LS00	74LS04
VOLTAGE PIN	+5V(16)	+5V(16)	+5V(16)	+5V(16)	+5V(16)	+5V(16)	+5V(14)	+5V(14)
GND PIN	(8)	(8)	(8)	(8)	(8)	(8)	(7)	(7)
REF DES	5H, 6H, 7H 7H, 8H, 9H	1J, K, L, M	1N, R, S, 26, 3F 4F, 7G, 8F, 9F	2F, 7F	2E, 3E, 4E 7E, 8E, 9E	1A	4A, B	6C, 9B 10B, C
AMPEX P/N	590-868	589-895	589-896	589-935	590-865	590-330	590-564	587-132
VENDOR P/N	74S244	74S574	74LS374	74LS393	27LS2517	10115	10124	10125
VOLTAGE PIN	+5V(20)	+5V(20)	+5V(20)	+5V(14)	+5V(20)	-5V(8)	+5V(9), -5V(8)	+5V(9), -5V(8)
GND PIN	(10)	(10)	(10)	(7)	(10)	(1,16)	(16)	(16)

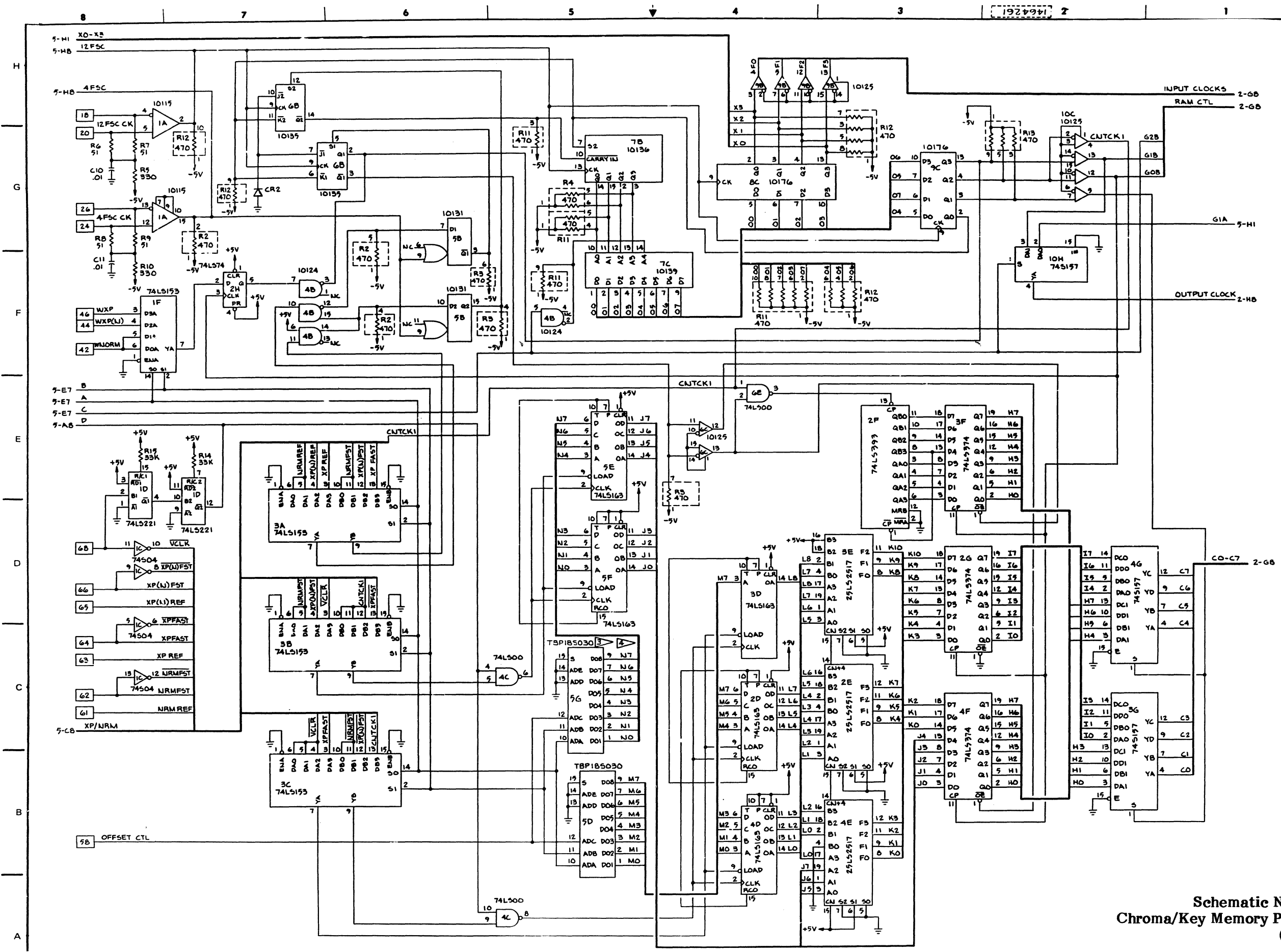
Schematic No. 1464261B. Chroma/Key Memory PWA, A8, A19 (Sheet 1 of 5)

H
G
F
E
D
C
B
A

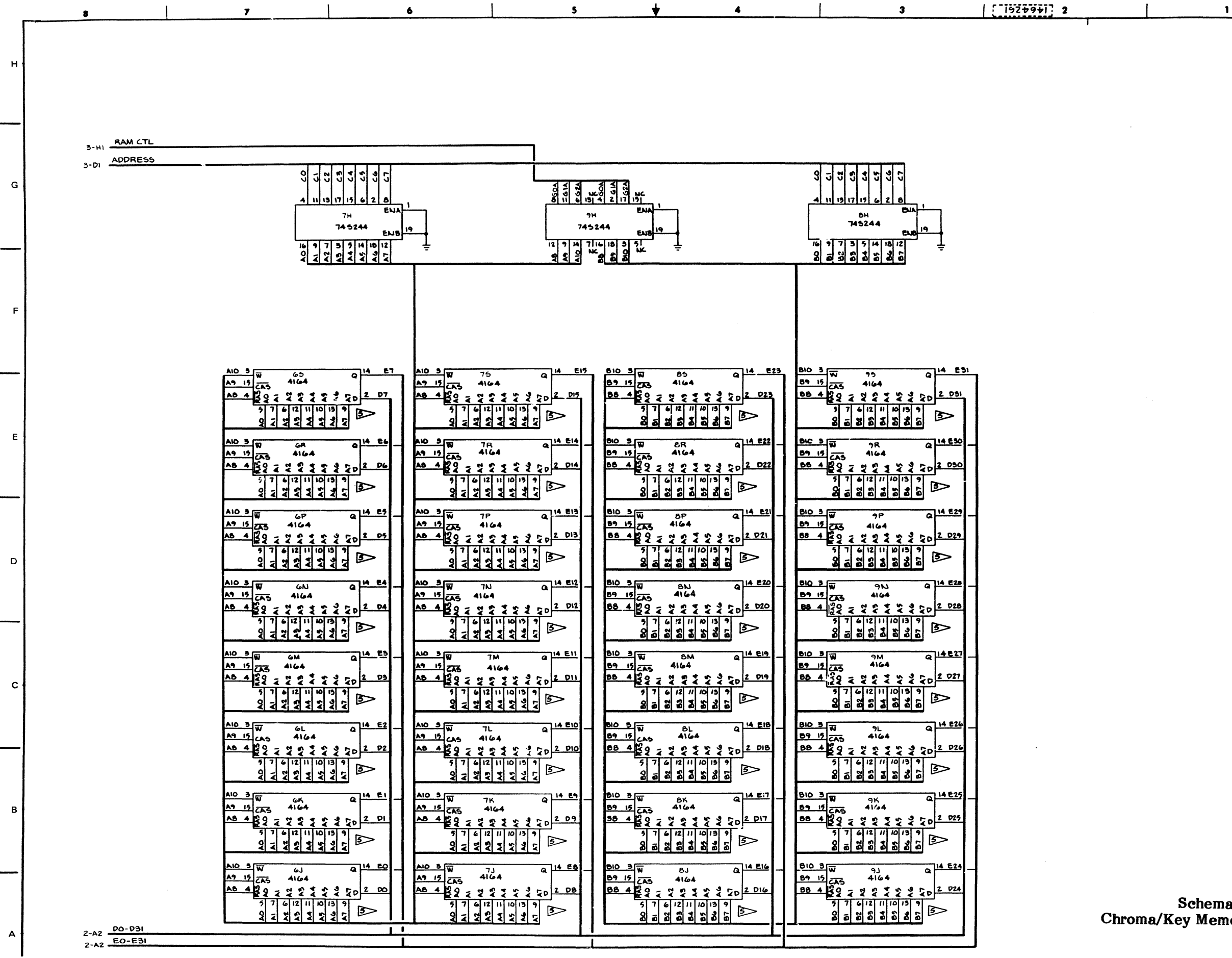
3-F1 OUTPUT CLOCKS
3-H1 RAM CTL (GOB-G2B)
3-D1 CO-C7
3-H1 INPUT CLOCKS



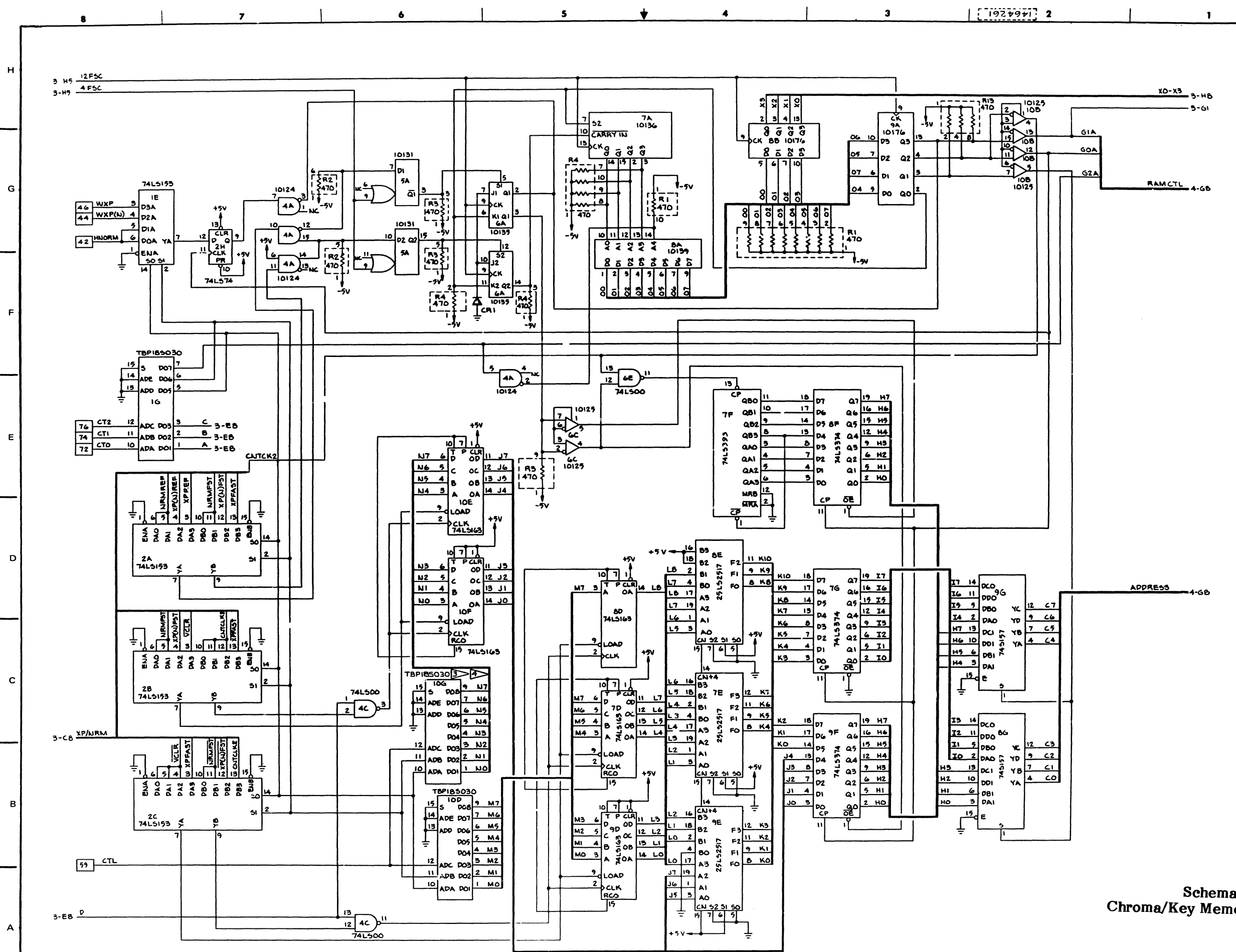
Schematic No. 1464261B.
Chroma/Key Memory PWA, A8, A19
(Sheet 2 of 5)



Schematic No. 1464261B.
 Chroma/Key Memory PWA, A8, A19
 (Sheet 3 of 5)



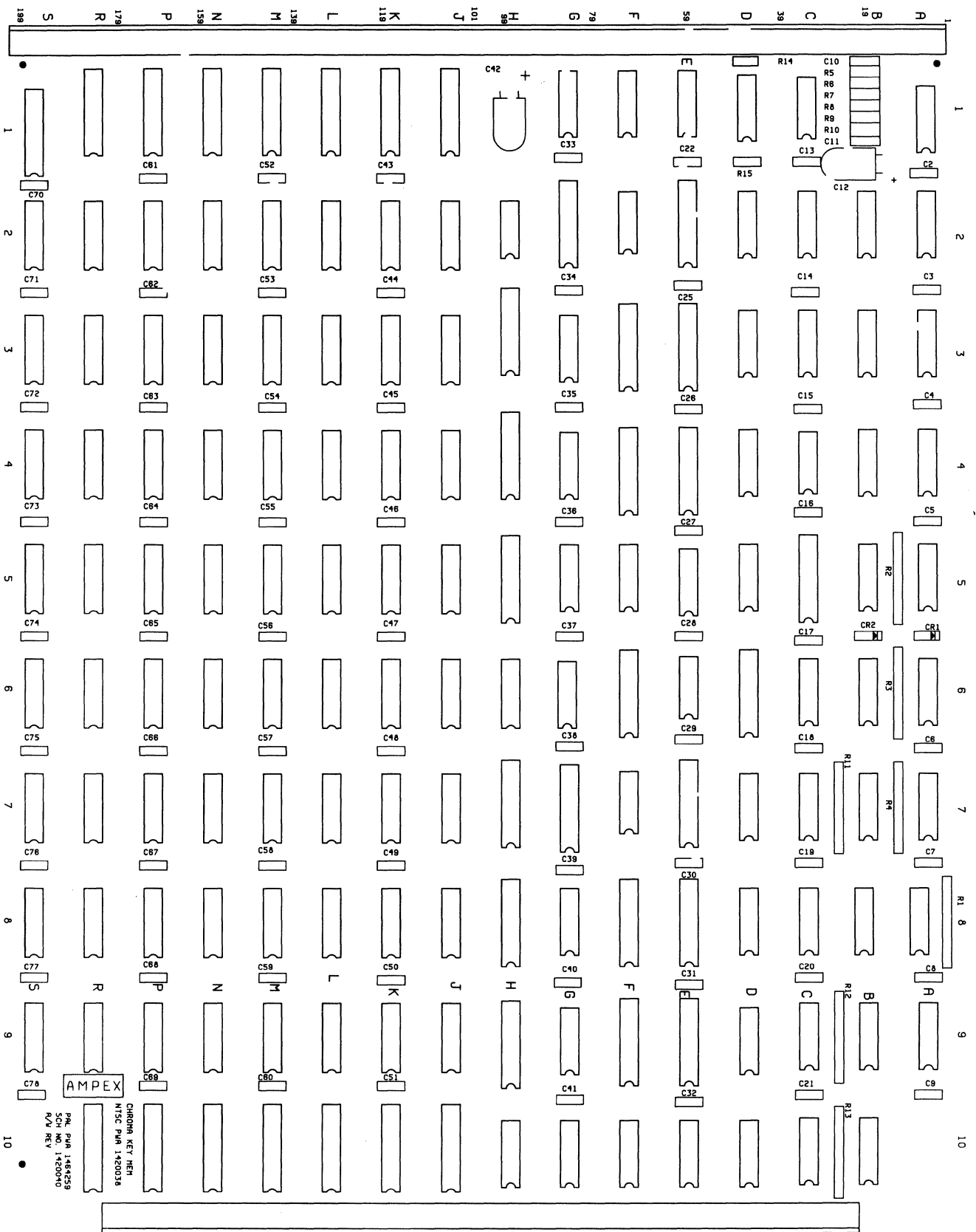
Schematic No. 1464261B.
 Chroma/Key Memory PWA, A8, A19
 (Sheet 4 of 5)



Schematic No. 1464261B.
 Chroma/Key Memory PWA, A8, A19
 (Sheet 5 of 5)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-01																
1																				
2																				
3	1464261	SCHEMATIC		B																
4																				
5	1409670-BK	LABEL, EXTRACTOR ARM, PWA		1																
6	1409976-AA	INSULATOR, STIFFENER		1																
7	1409976-AB	INSULATOR, STIFFENER		1																
8	1409997-AA	STIFFENER, PWB		1																
9	1409997-AB	STIFFENER, PWB		1																
10																				
11	1420354-01	PROM ASSY	REF: 10139	8A	1															
12	1420355-01		REF: 10139	7C	1															
13	1420356-01		REF: TBP18S030	5D	1															
14	1420357-01			10D	1															
15	1420358-02			1G	1															
16	1464338-01	PROM ASSY	REF: TBP18S030	5G,10G	2															
17																				
18																				
19	064-652	CAPACITOR, CER., .01uF, 50V, ±20%		C10,11	2															
20	064-653	CAPACITOR, CER., .1uF, 50V, ±20%		C2-9,13-22, 25-41,43-78	71															
21																				
22	037-965	CAPACITOR, TANT., 120uF, 10V, ±20%		C12,42	2															
23																				
24	013-689	DIODE, SWITCHING		CR1,2	2															
25																				
26	000-152	INTEGRATED CIRCUIT, 10125		6C,9B,10B,C	4															
27	001-077		10176	8B,C,9A,C	4															
28	587-550		10136	7A,B	2															
29	589-508		10135	6A,B	2															
30	590-586		74LS374	1N,P,R,S,2G, 3F,4F,7G,8F,9F	10															
31	589-813		74LS00	4C,6E	2															
32	589-820		74LS74	2H	1															
33	589-824		74LS153	2A,B,C,3A,B, C,1E,F	8															
34	589-838		74S04	1C	1															
35	590-855		74S374	1J,K,L,H	4															
36	589-934		74LS221	1D	1															
37	589-935	INTEGRATED CIRCUIT, 74LS393		2F,7F	2															

LM-1464259



Assembly No. 1464259-01F. Chroma/Key Memory PWA, A8, A19, PAL

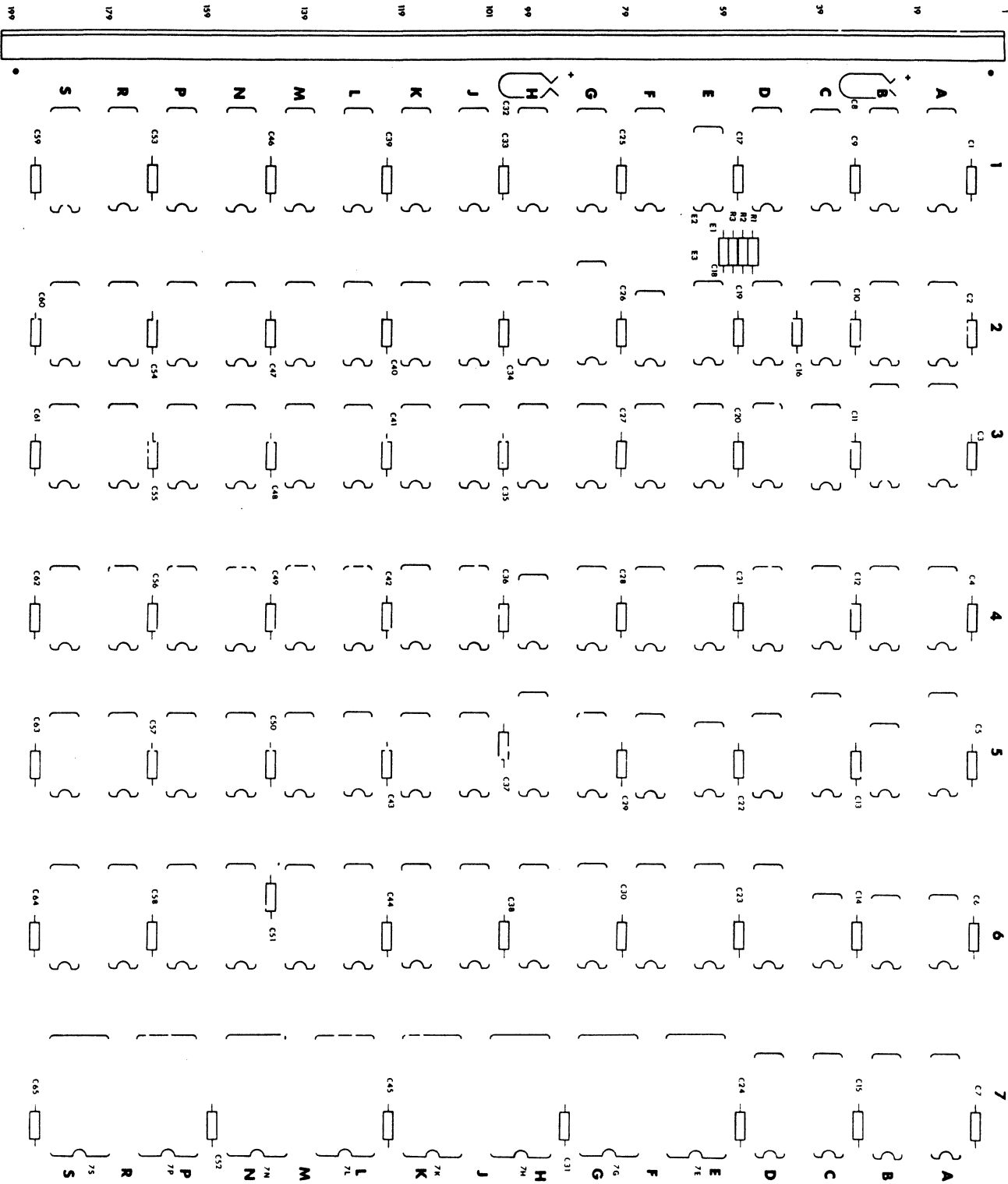
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-02																
1																				
2																				
3	1420028	SCHEMATIC		L																
4																				
5	1409670-AY	LABEL, EXTRACTOR ARM, PWA		1																
6	1409976-AA	INSULATOR, STIFFENER		1																
7	1409976-AB	INSULATOR, STIFFENER		1																
8	1409997-AA	STIFFENER, PWB		1																
9	1409997-AB	STIFFENER, PWB		1																
10	1420270-01	PROM ASSY	REF: 87S181	7E	1															
11	1420271-01			7G	1															
12	1420272-01			7H	1															
13	1420273-01			7K	1															
14	1420274-01			7L	1															
15	1420275-01			7N	1															
16	1420276-01			7P	1															
17	1420277-01	PROM ASSY	REF: 87S181	7S	1															
18																				
19	000-007	INTEGRATED CIRCUIT, 25S10		2J, K, L, M, N, P, R, S, 3J, K, L, M, N, P, R, S, 4J, K, L, M, N, P, R, S, 5J, K, L, M, N, P, R, S	32															
20	001-086		74H87	5B, 6C	2															
21	589-837		74S00	5E	1															
22	589-838		74S04	2F, 4H	2															
23	000-152		10125	2D	1															
24	589-847		74S86	6A	1															
25	589-823		74LS138	1E, 2E	2															
26	590-853		74S139	5G	1															
27	590-845		74S32	6B	1															
28	590-622		74LS670	3D, E, F, G, 4D, E, F, G	8															
29	589-830		74LS174	2H	1															
30	589-850		74S163	5D, 5F	2															
31	590-855		74S374	1A, B, C, D, F, G, J, K, L, M, N, P, R, S, 2G, 3A, B, 5A, C, H, 6J, K, L, M, N, P, R, S	28															
32	590-586		74LS374	1H	1															
33	000-128		74S283	2A, B, C, 4A, B, C	6															
34	590-868	INTEGRATED CIRCUIT, 74S244		6H	1															
35																				

LM-1420026

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-02											
36	066-811	RESISTOR, C.F., 51 OHMS, 1/4W, 5% R1,2		2											
37	066-838	RESISTOR, C.F., 330 OHMS, 1/4W, 5% R3		1											
38															
39	037-965	CAPACITOR, TANT., 120uF, 10V, ±20% C8,32		2											
40	064-652	CAPACITOR, CER., MONO., .01uF, 50V, ±20% C18		1											
41	064-653	CAPACITOR, CER., MONO., .1uF, 50V, ±20% C1-7,9-17,19-31,33-65		62											
42															
43															
44	582-333	I.C., MTG HDW., SOCKET, 20 PIN REF:1A,B,C,D,F,G,H,J,K,L,M, N,P,R,S,2G,3A,B,5A,C,H, 6H,J,K,L,M,N,P,R,S		30											
45	582-330	14 PIN REF:2F,4H,5B,E,6A,B,C		7											
46	582-280	24 PIN REF:7E,G,H,K,L,N,P,S		8											
47	582-331	I.C., MTG HDW., SOCKET, 16 PIN REF:1E,2A,B,C,D,E,H,J,K,L, M,N,P,R,S,3D,E,F,G,J,K, L,M,N,P,R,S,4A,B,C,D,E, F,G,J,K,L,M,N,P,R,S,5D, F,G,J,K,L,M,N,P,R,S		53											
48															
49															
50	471-060	SCREW, PAN HD., X-REC, 4-40 X .250 LG		6											
51	493-005	NUT, HEX, NYLON LOCK, 4-40		6											
52	530-477	ENCLOSURE PART, CARD INSERTER/EXTRACTOR		2											

NOTES: STATIC SENSITIVE DEVICE, SPECIAL HANDLING
REQUIRED PER AMPEX STD HE1-1.

LM-1420026

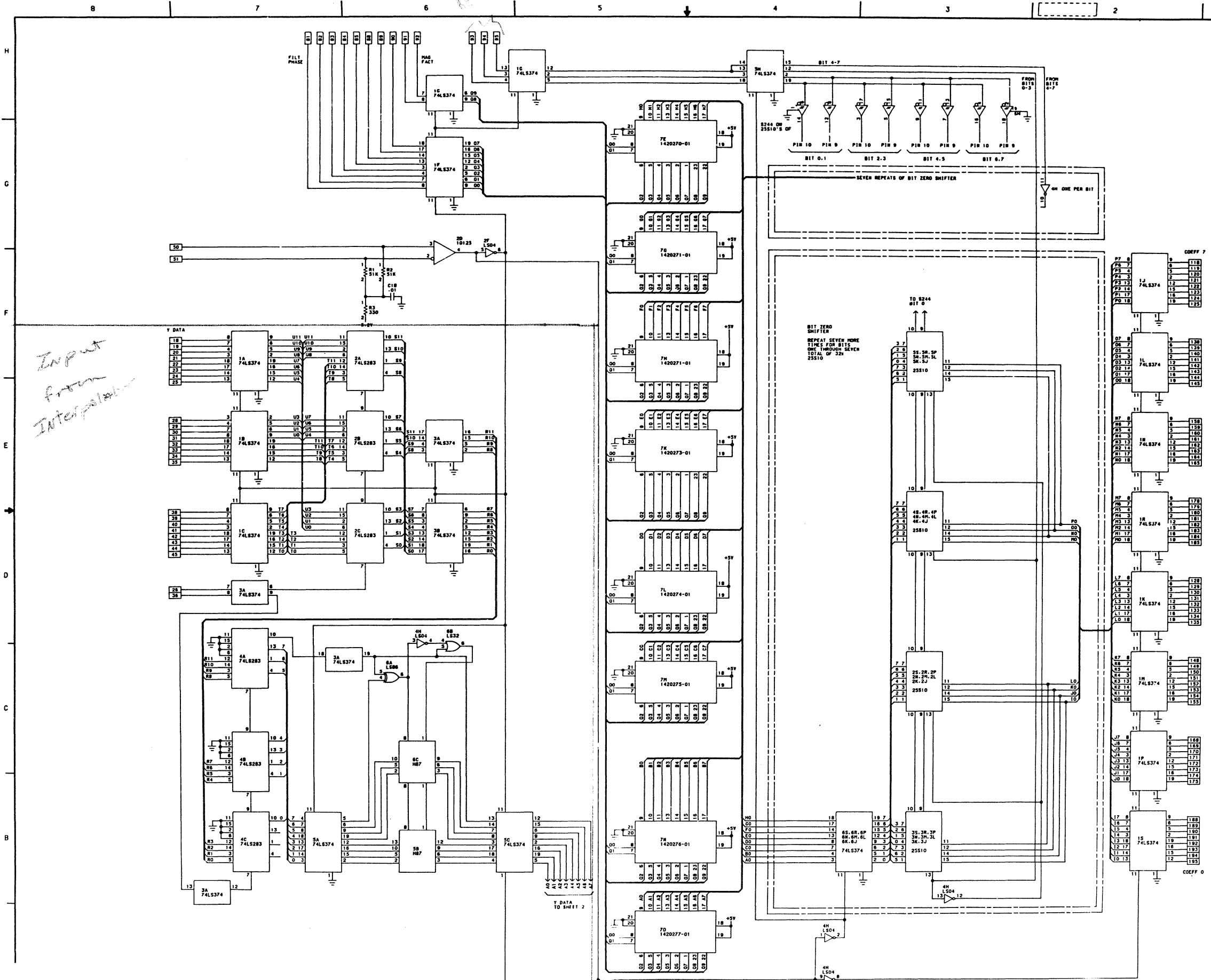


A/W REV
 COEFFICIENT STORE
 ASSY. NO. 1420026
 SCHEM. NO. 1420028

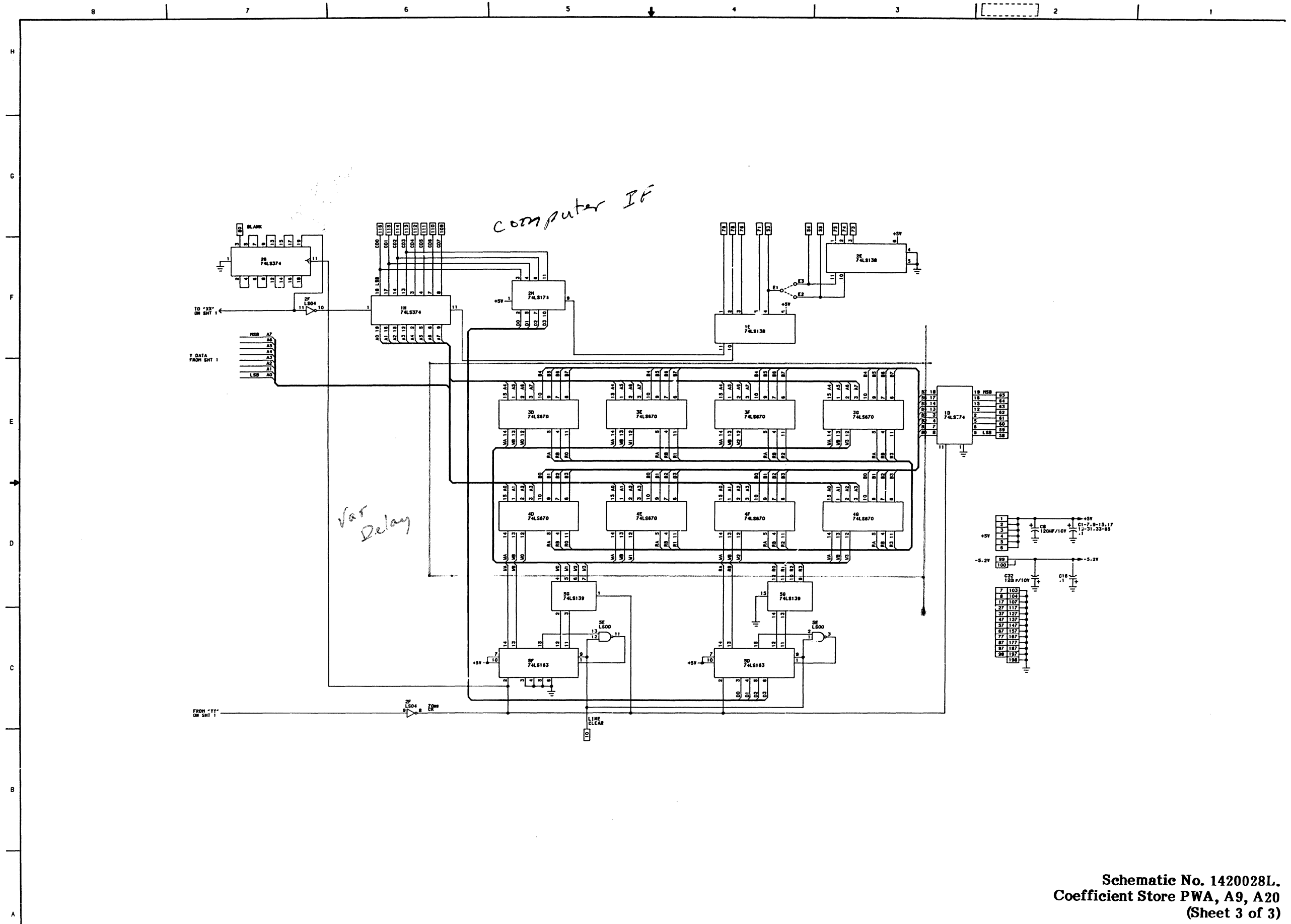
Assembly No. 1420026-02H. Coefficient Store PWA, A9, A20

H	REFERENCE DESIGNATIONS		I.C. LIST							I.C. LIST						
	LAST USED	POT USED	REFERENCE DESIGNATION	AMPEX P/N	VENDOR P/N	POWER / GROUND PINS			REFERENCE DESIGNATION	AMPEX P/N	VENDOR P/N	POWER / GROUND PINS				
	C65	R3				+5V	-5.2V	GND				+5V	-5.2V	GND		
			7E	1420270-01	07S101	24		12		6H	590-868	74S244	20		10	
			7G	1420271-01	"	"	"	"	"	5G	590-853	74S139	16		8	
			7H	1420272-01	"	"	"	"	"	3D.E.F.G	590-622	74S670	16		8	
			7K	1420273-01	"	"	"	"	"	4D.E.F.G	590-622	74S670	16		8	
			7L	1420274-01	"	"	"	"	"	1H	590-586	74LS374	20		10	
			7N	1420275-01	"	"	"	"	"							
			7P	1420276-01	"	"	"	"	"							
			7S	1420277-01	07S101	24		12								
			2J.K.L.M.N.P.R.S	000-007	25S10	16		8								
			3J.K.L.M.N.P.R.S	"	"	"		"								
			4J.K.L.M.N.P.R.S	"	"	"		"								
			5J.K.L.M.N.P.R.S	000-007	25S10	16		8								
			2A.B.C.4A.B.C	000-128	74S283	16		8								
			2D	000-152	10125	9	8	16								
			5B.6C	001-086	74H07	14		7								
			5E	589-837	74S00	14		7								
			2F.4H	589-838	74S04	14		7								
			6A	589-847	74S06	14		7								
			1E.2E	589-823	74LS138	16		8								
			2H	589-830	74LS174	16		8								
			5D.F	589-850	74S163	16		8								
			6B	590-845	74S32	14		7								
			1A.B.C.D.E.F.G.J.K.L	590-855	74S374	20		10								
			1M.N.P.R.S	"	"	"		"								
			2G	"	"	"		"								
			3A.B	"	"	"		"								
			5A.C.H	"	"	"		"								
			6J.K.L.M.N.P.R.S	590-855	74S374	20		10								

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
 2. CAPACITANCE VALUES ARE IN MICROFARADS.
 3. STATIC SENSITIVE: SPECIAL HANDLING REQUIRED PER AMPEX STANDARD HE1-1.



Schematic No. 142028L.
Coefficient Store PWA, A9, A20
(Sheet 2 of 3)



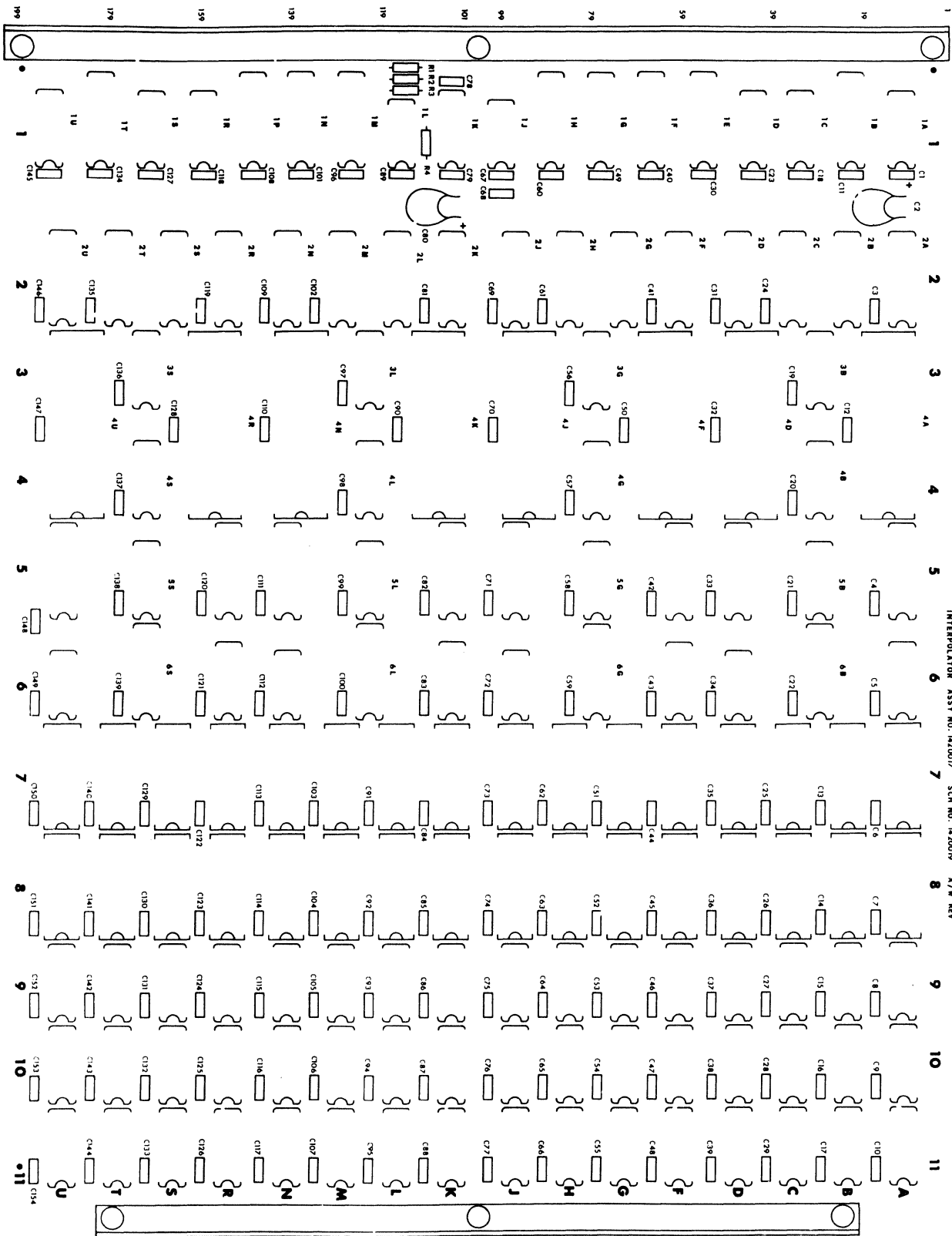
Schematic No. 1420028L.
Coefficient Store PWA, A9, A20
(Sheet 3 of 3)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER						
				-01	-02	-03				
1										
2										
3	1420019	SCHEMATIC		F	J	K				
4										
5	1409670-AZ	LABEL, EXTRACTOR ARM, FWA		1		1				
6	1409976-AA	INSULATOR, STIFFENER		1		1				
7	1409976-AB	INSULATOR, STIFFENER		1		1				
8	1409997-AA	STIFFENER, PWB		1		1				
9	1409997-AB	STIFFENER, PWB		1		1				
10										
11										
12										
13	064-898	CAPACITOR, CER., .1uF, 100V, ±20%	C1,3-77.79, 81-154	51	151	151				
14	064-298	CAPACITOR, CER., .01uF, 100V, ±20%	C78	1	1	1				
15										
16	037-965	CAPACITOR, TANT, 120uF, 10V, ±20%	C2,80	2	2	2				
17										
18	590-974	I.C. 74F374	1M			1				
19	589-837	INTEGRATED CIRCUIT, 74S00	1L	1		1				
20	589-838		74S04	5	5	5				
21	000-152		10125	1		1				
22	590-853		74S139	4	4	4				
23	590-606		74LS283	11A,B,C,D,F,G,H,J,K,L,M,N,R,S,T,U	16	16	16			
24	589-482		93L422	7A,B,C,D,F,G,H,J,K,L,M,N,R,S,T,U,8A,B,C,D,F,G,H,J,K,L,M,N,R,S,T,U	32	32	32			
25	590-855		74S374	1B,E,G,H,M,P,T,2A,B,C,D,F,G,H,J,K,L,M,N,R,S,T,U,5A,D,F,J,K,N,R,U,6B,G,L,S	35	35	-			
26	300-128		74S283	1A,C,D,R,S,U,3B,G,L,S,4B,G,L,S,5B,G,L,S	18	18	18			
27	590-868		74S244	1F,1N	2	2	2			
28	590-227		25S09	9A,B,C,D,F,G,H,J,K,L,M,N,R,S,T,U,10A,B,C,D,F,G,H,J,K,L,M,N,R,S,T,U	32	32	32			
29	590-987	INTEGRATED CIRCUIT, MPY8HJ-1	4A,D,F,J,K,N,R,U	8	8	8				
30	590-855	I.C. 74S374	1B,E,G,H,M,P,T,2A,B,C,D,F,G,H,J,K,L,M,N,R,S,T,U,5A,D,F,J,K,N,R,U,6B,G,L,S			34				
31										
32	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, 5%	R4	1		1				
33	066-811	RESISTOR, C.F., 51 OHMS, 1/4W, 5%	R1,2	2	2	2				
34	066-838	RESISTOR, C.F., 330 OHMS, 1/4W, 5%	R3	1		1				

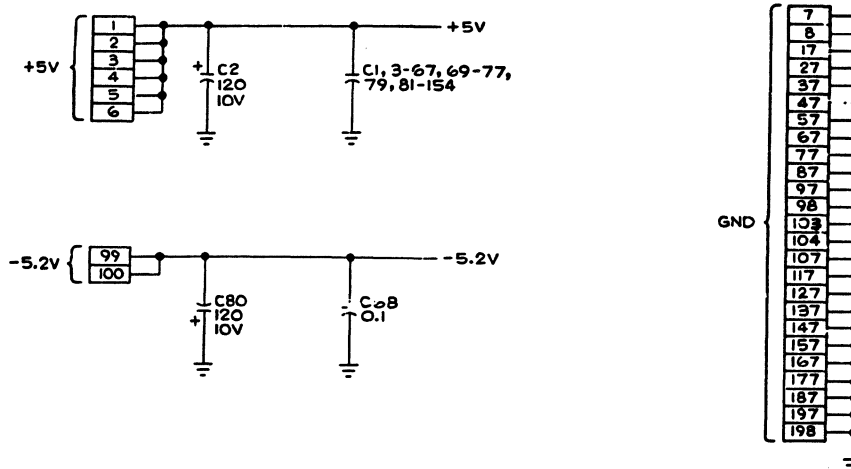
LM-1420017

AMPEX | Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS		LM-1420017 SHEET 2 OF 2	RFV G																
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																		
				-01	-02	-03																
35																						
36																						
37																						
38	582-139	I.C., MTG HDW, SOCKET, 20 PIN	REF: B,E,F,G,H,M,N,P,T, 2A,B,C,D,F,G,H,J,K, L,M,N,R,S,T,U,5A,D,F,J, K,N,R,U,6B,G,L,S	37	37	37																
39	582-279	22 PIN	REF: 7A,B,C,D,F,G,H,J,K, L,M,N,R,S,T,U,8A,B, C,D,F,G,H,J,K,L,M,N,R, S,T,U	32	32	32																
40	582-282	40 PIN	REF: 4A,D,F,J,N,R,U,N	8	8	8																
41	582-277	14 PIN	REF: 1J,L,6D,J,N,U	6	6	6																
42	587-451	I.C., MTG HDW, SOCKET, 16 PIN	REF: 1A,C,D,K,R,S,U,3B, G,L,S,4B,G,L,S,5B,G, L,S,6A,F,K,R,9A,B,C,D,F, G,H,J,K,L,M,N,R,S,T,U, 10A,B,C,D,F,G,H,J,K,L, M,N,R,S,T,U,11A,B,C,D,F, G,H,J,K,L,M,N,R,S,T,U	71	71	71																
43	471-060	SCREW, PAN HD, XREC, 4-40 X .250 LG		6	6	6																
44	493-005	NUT, HEX, NYLON LOCK, 4-40		6	6	6																
45	530-477	ENCLOSURE PART, CARD INSERTER/EXTRACTOR		2	2	2																

LM-1420017



Assembly No. 1420017-03G. Interpolator PWA, A10, A24



REF DES	
LAST USED	NOT USED
C154 R4	

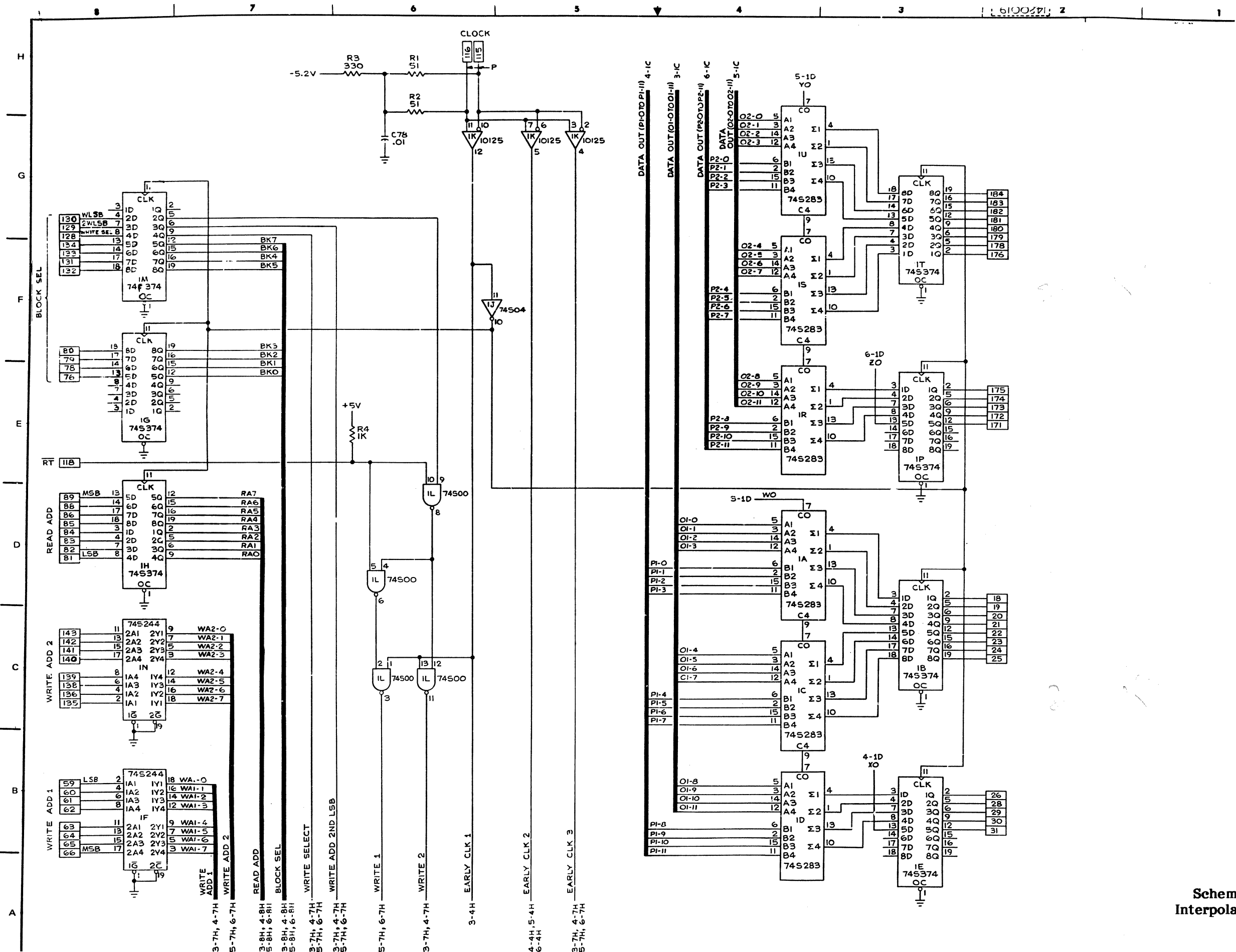
NOTES: UNLESS OTHERWISE SPECIFIED.

1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
2. CAPACITANCE VALUES ARE IN MICROFARADS.

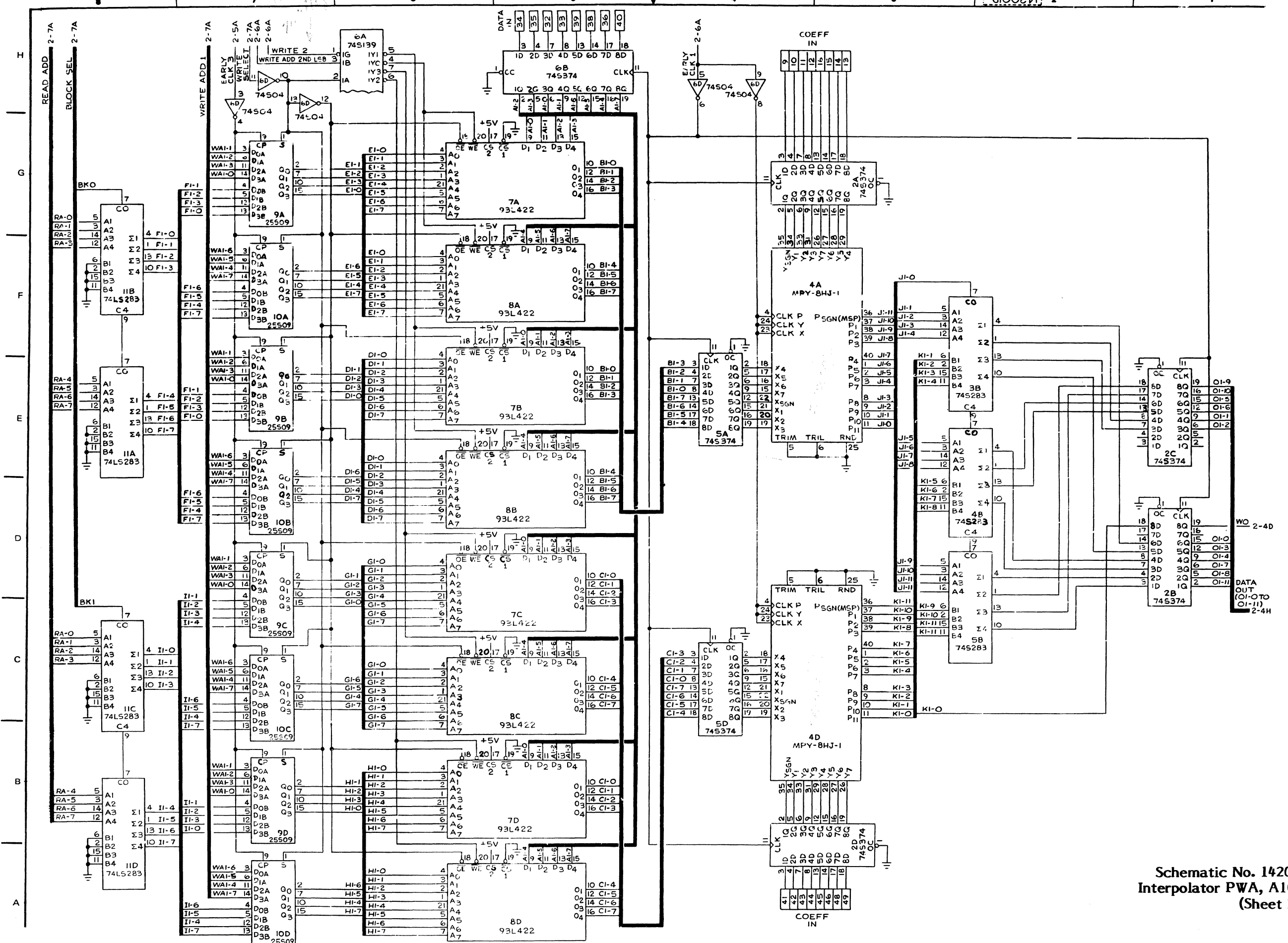
I.C. LIST							
REF DES	IL	1J, 6D,J,N,U	IK	6A,F,K,R	11A,B,C,D, F,G,H,J, K,L,M,N, R,S,T,U	7A,B,C,D,F,G,H,J, K,L,M,N,R,S,T,U, 8A,B,C,D,F,G,H,J, K,L,M,N,R,S,T,U	1B,E,G,H, C,D,F,G,H,J,K,L,M,N, R,S,T,U,SA,D,F,J,K, N,R,U,6B,G,L,S
AMPEX P/N	589-837	589-838	000-152	590-853	590-606	589-482	590-855
VENDOR P/N	74500	74504	10125	745139	74LS283	93L422	745374
VOLTAGE (PIN)	+5V (14)	+5V (14)	+5V (9) -5.2V (8)	+5V (16)	+5V (16)	+5V (22)	+5V (20)
GND (PIN)	(7)	(7)	(16)	(8)	(8)	(8)	(10)

IM	1A,C,D,R,S, U,3B,G,L,S, 4B,G,L,S, 5B,G,L,S	1F,N	9A,B,C,D,F,G,H,J,K,L, M,N,R,S,T,U, 10A,B,C,D,F,G,H,J,K,L, M,N,R,S,T,U	4A,D,F,J, K,N,R,U
590-974	000-128	590-868	590-227	590-987
74F374	74S283	74S244	25509	MPY-8HJ-1
+5V (20)	+5V (16)	+5V (20)	+5V (16)	+5V (30)
(10)	(8)	(10)	(8)	(32)

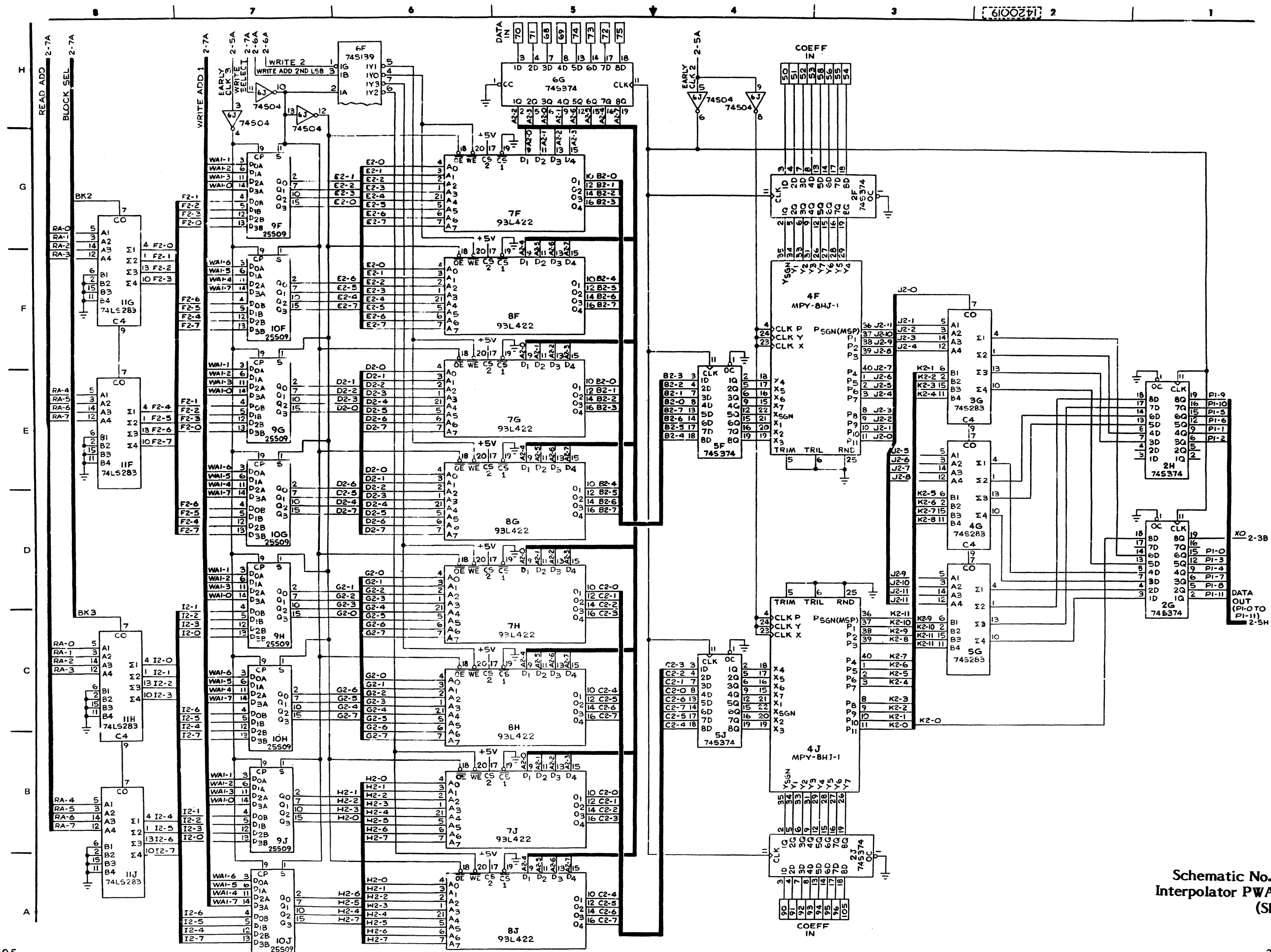
Schematic No. 1420019K. Interpolator PWA, A10, A24 (Sheet 1 of 6)



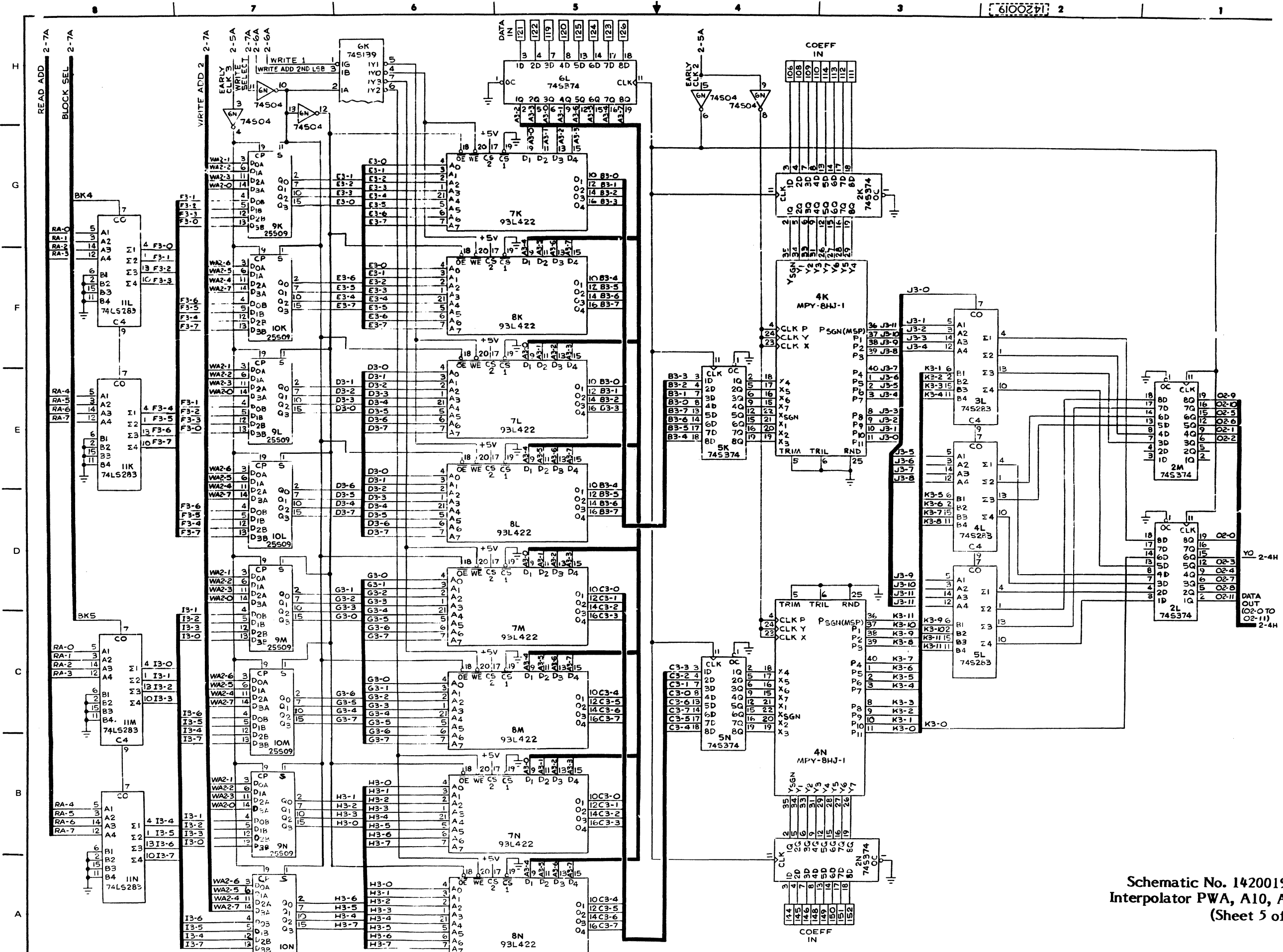
Schematic No. 1420019K.
 Interpolator PWA, A10, A24
 (Sheet 2 of 6)



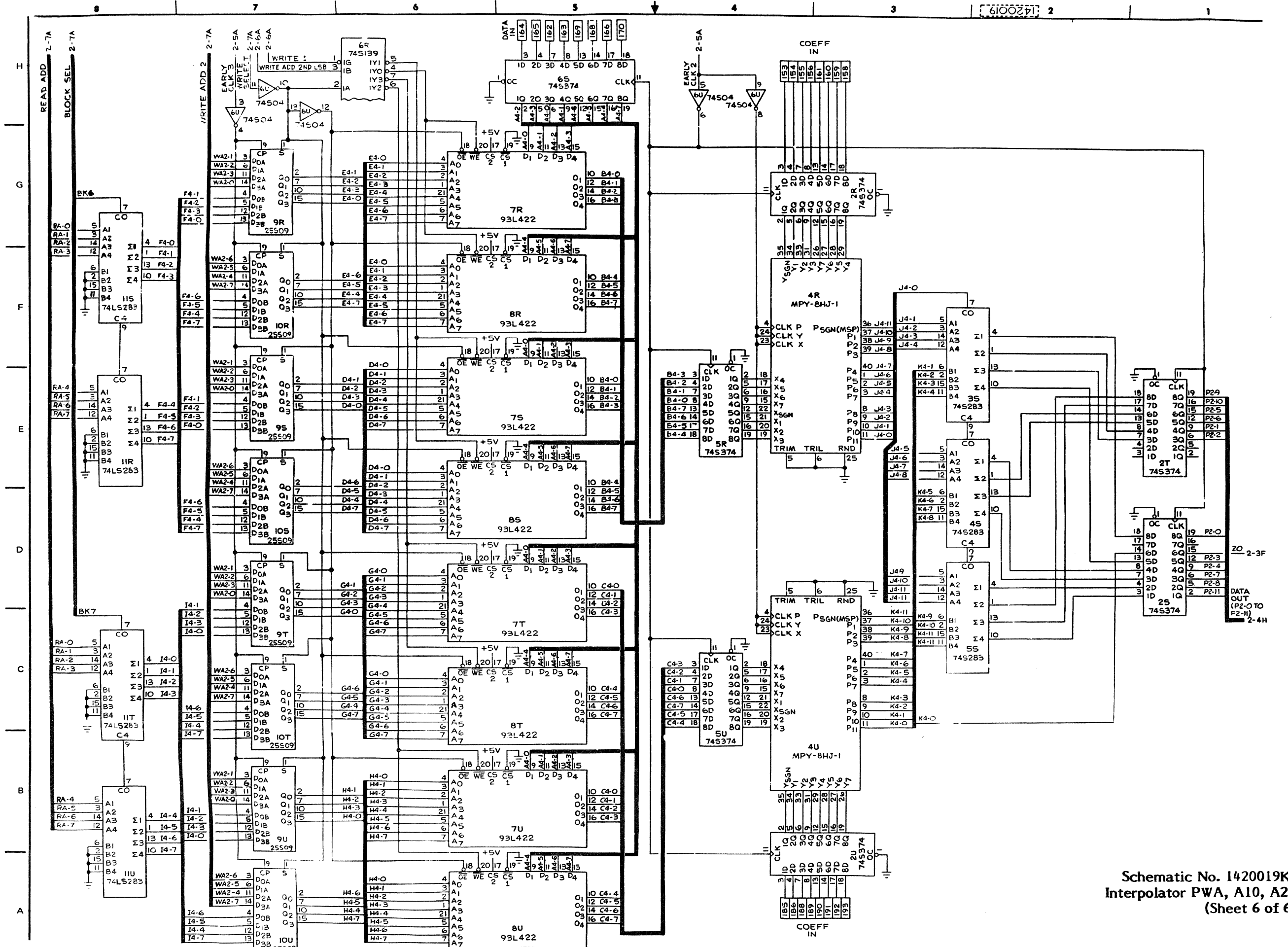
Schematic No. 1420019K.
 Interpolator PWA, A10, A24
 (Sheet 3 of 6)



Schematic No. 1420019K.
 Interpolator PWA, A10, A24
 (Sheet 4 of 6)



Schematic No. 1420019K.
 Interpolator PWA, A10, A24
 (Sheet 5 of 6)



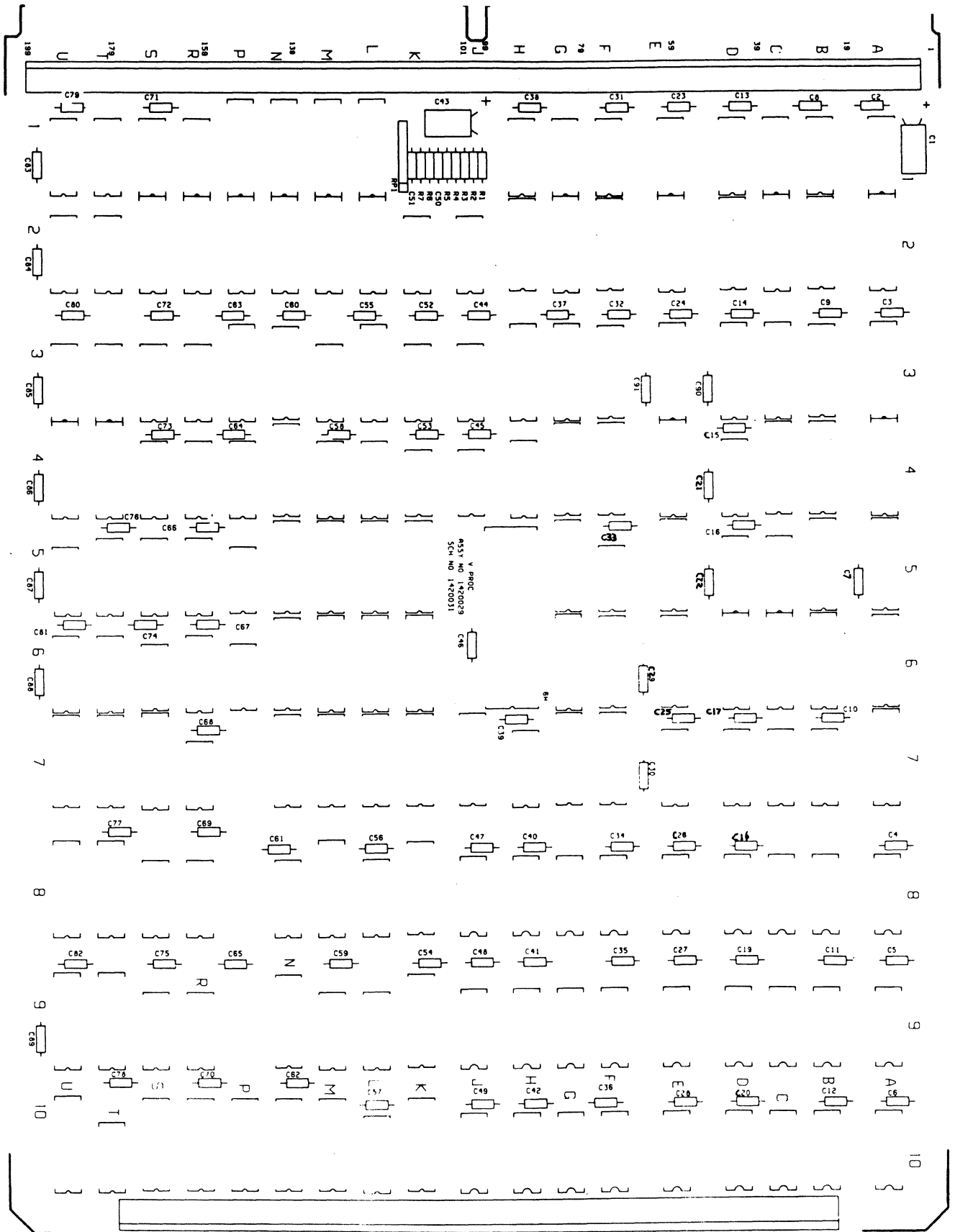
Schematic No. 1420019K.
 Interpolator PWA, A10, A24
 (Sheet 6 of 6)

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER																
				-01	-02															
1																				
2																				
3	1420031	SCHEMATIC		G	M															
4																				
5	1409670-BA	LABEL, EXTRACTOR ARM, PWA																		
6	1409976-AA	INSULATOR, STIFFENER																		
7	1409976-AB	INSULATOR, STIFFENER																		
8	1409997-AA	STIFFENER, PWB																		
9	1409997-AB	STIFFENER, PWB																		
10																				
11	1420266-01	PROM ASSY	REF: TBP18S030	3M																
12	1420267-01	PROM ASSY	REF: TBP18S030	7E																
13	1420268-01	PROM ASSY	REF: TBP18S22	6G																
14	1420269-01	PROM ASSY	REF: TBP28S42	4A																
15	1420278-01	PROM ASSY	REF: TBP18S22	7S																
16	1420279-01	PROM ASSY	REF: TBP18S22	8U																
17	1420280-01	PROM ASSY	REF: TBP28S42	4E																
18																				
19	037-965	CAPACITOR, TANT., 120uf, 10v, +/-20%		C1,43	2															
20	064-652	CAPACITOR, CER., .01uf, 50v, +/-20%		C50,51	2															
21	064-653	CAPACITOR, CER., .1uf, 50v, +/-20%		C2-42,44-49 52-91	88															
22																				
23	000-007	IC, 25S10		1F,G,H,A,B 1C,D,E	8															
24	000-011	IC, 2125H-1		8A,C,B,D,E,F 8G,H,J,9A,B,C 9D,E,F,G,H,J 10A,B,C,D,E 10F,G,H,J	27															
25	589-837	IC, 74S00		4J,5P,6P	3															
26	589-838	IC, 74S04		4K,5F,6S,7R	4															
27	001-091	IC, 74S112		6R	1															
28	590-842	IC, 74S157		2T,4P	2															
29	000-152	IC, 10125		3I,3K	2															
30	590-543	IC, 10116		2J	1															
31	590-843	IC, 74S85		7B,C,D	3															
32	589-823	IC, 74LS138		1R,1S	2															
33	590-845	IC, 74S32		10T	1															
34	001-077	IC, 10176		2K	1															
35	589-839	IC, 74S08		5U	1															

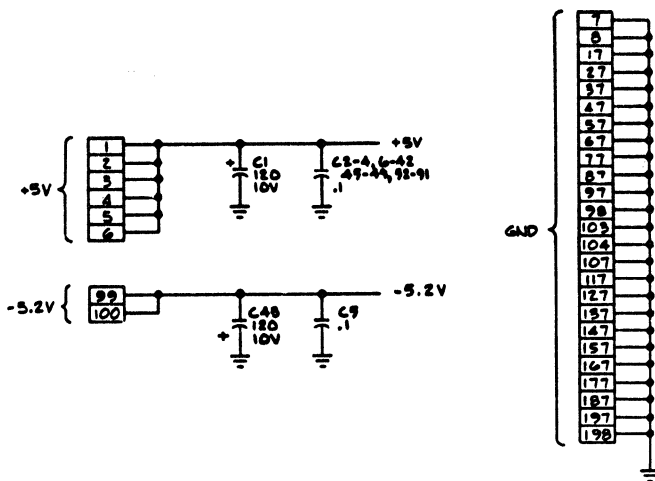
LM-1420029

AMPEX | Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO. 92739	LIST OF MATERIALS	LM- 1420029	SHEET 2 of 2	PFV P											
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER													
				-01	-02												
36	589-821	IC, 74LS85	3R,S,U,T 4R,S	6	6												
37	589-850	IC, 74S163	10L 5R,S,T,8L,9L	6	6												
38	000-127	IC, 74S381	6K,7K,8M 3A,C,D,E,G,H	9	9												
39	590-335	IC, 74LS273	2R,S,4T,U	4	4												
40	590-859	IC, 74S182	4D,H,7H	3	3												
41	590-584	IC, 74LS244	2A,C,E,G	4	4												
42	590-855	IC, 74S374	1L,M,N,P,2B,D,F,H,M 3L,P,4B,C,F,G,5A,B 5E,G,K,6A,B,C,D,E,F 7F,G,J,L,M,N,T,U,8K 8T,9K,N,10K,M,N,P,R 10S 2N,P,3B,F,N,4N,5L,M 5N,6L,N,M	44	44												
43	590-586	IC, 74LS374	2N,P,3B,F,N,4N,5L,M 5N,6L,N,M	12	12												
44	000-128	IC, 74S283	4L,M,6T,U,6R,S,9R,S	8	8												
45	590-868	IC, 74S244	2L	1	1												
46	590-227	IC, 25S09	1U,T,2U,5C,D,9M,8N	7	7												
47	590-987	IC, MPY-8HJ-1	6H	1	1												
48																	
49	039-329	RESISTOR NETWORK, 470 OHMS	RP1	1	1												
50	066-811	RESISTOR, C.F., 51 OHMS, 1/2 WATT, 5%	R1-4	4	4												
51	066-818	RESISTOR, C.F., 470 OHMS, 1/2 WATT, 5%	R5	1	1												
52	066-838	RESISTOR, C.F., 330 OHMS, 1/2 WATT, 5%	R6-7	2	2												
53																	
54																	
55	582-333	IC MTG HDW, SOCKET, 20 PIN	REF: 1L,M,N,P,2A 2B,C,D,E,F,G,H,I 5A,2M,N,P,R,S,3A,B,C 5B,3D,E,F,G,H,I,N,P 5E,4A,B,C,E,F,G,N,T 5G,4U,5M,N,6A,B,C,D 5K,5E,F,G,K,L,M,N, 5L,7F,G,I,K,L,M,N,S 7T,U,8K,M,T,U,9K 9N,10K,M,N,P,R,S REF: 5F,P,U,6P,S 7R,10T,4J,K	79	79												
56	582-330	IC MTG HDW, SOCKET, 14 PIN	REF: 5F,P,U,6P,S 7R,10T,4J,K	9	9												
57	582-282	IC MTG HDW, SOCKET, 40 PIN	REF: 6H	1	1												
58	582-331	IC MTG HDW, SOCKET, 16 PIN	REF: 1A,C,B,D,E,F 1G,H,R,S,T,U,2I,K 2T,U,3J,K,M,R,S,T 3U,4D,H,I,L,M,P,R,S 5C,D,R,S,T,6R,T,U 7B,C,D,E,H,R,A,B,C 8E,F,G,H,J,L,N,R 8S,9A,B,C,D,E,F,G 9H,J,L,M,R,S,10A 10B,C,D,E,F,G,H 10J,L,8D	79	79												
59																	
60	471-060	SCREW, PAN HD, X-REC, 4-40 X .250 LG.		6	6												
61	493-005	NUT, HEX, NYLON LOCK, 4-40		6	6												
62	530-477	ENCLOSURE PART, CARD INSERTER/EXTRACTOR		2	2												
63	501-662	WASHER, PLAIN, MYLAR NO. 4		1	1												

LM-1420029



Assembly No. 1420029-02P. Vertical Processor PWA, A11



NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTANCE VALUES ARE IN OHMS 1/4 W 5 % .
2. CAPACITANCE VALUES ARE IN MICROFARADS .

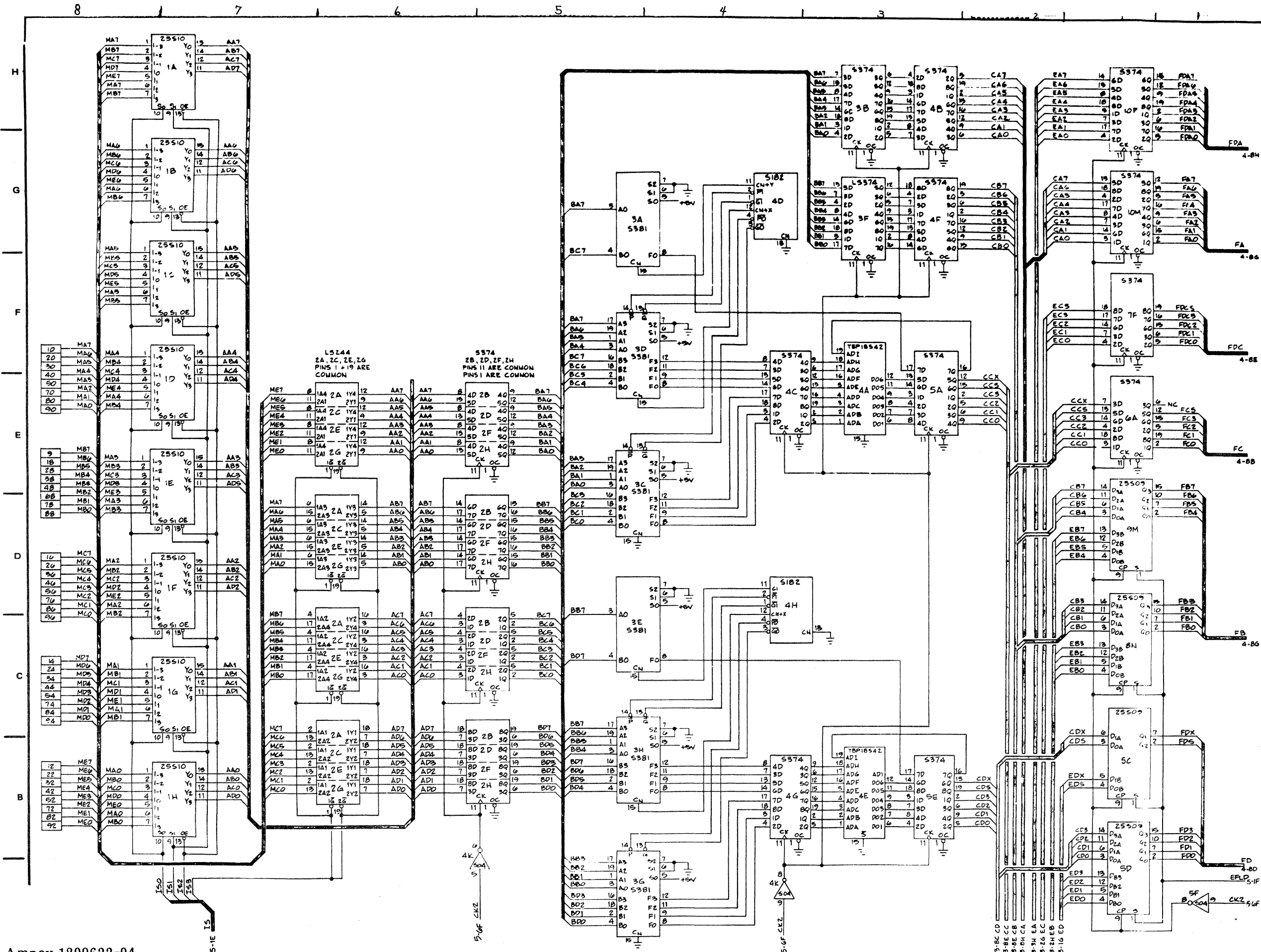
I.C. LIST							
REF DES	3M	7E	6G	4A	7S	8U	4E
AMPEX P/N	1420266-01	1420267-01	1420268-01	1420269-01	1420278-01	1420279-01	1420280-01
VENDOR P/N	TBP185030	TBP185030	TBP18522	TBP28542	TBP18522	TBP18522	TBP28542
VOLTAGE (PIN)	+5 (16)	+5 (16)	+5 (20)	+5 (20)	+5 (20)	+5 (20)	+5 (20)
GROUND (PIN)	(8)	(8)	(10)	(10)	(10)	(10)	(10)

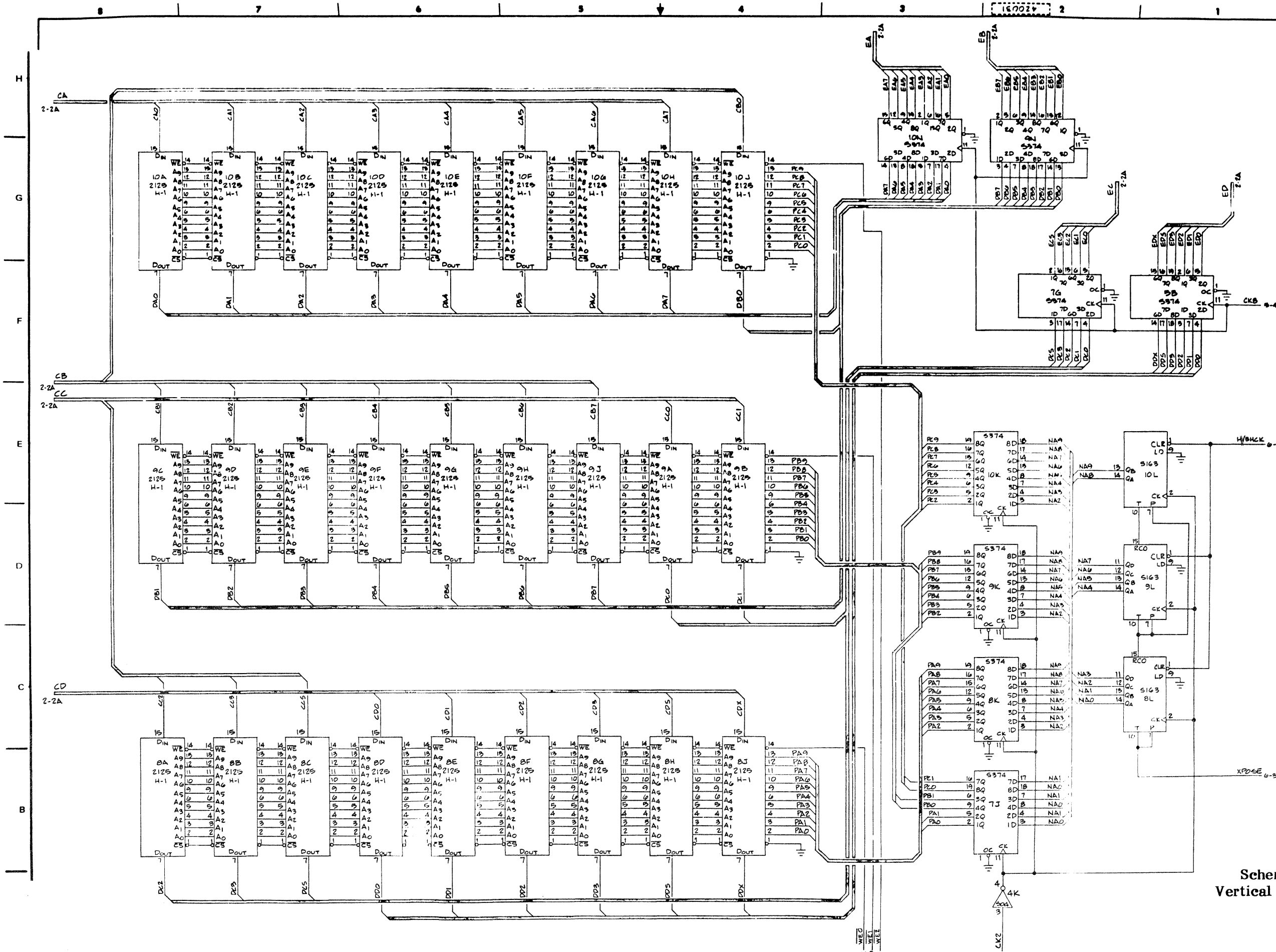
I.C. LIST								
REF DES	1A, B, C, D, E, F, G, H	8A, B, C, D, E, F, G, H, J, 9A, B, C, D, E, F, G, H, J, 10A, B, C, D, E, F, G, H, J	4J, 5P, 6P	4K, 5F, 6S, 7R	6R	2T, 4P	3J, 3K	2J
AMPEX P/N	000-007	000-011	589-837	589-838	001-091	590-842	000-152	590-543
VENDOR P/N	25S10	2125H-1	74500	74504	745112	745157	10125	10116
VOLTAGE (PIN)	+5 (16)	+5 (16)	+5 (14)	+5 (14)	+5 (16)	+5 (16)	+5 (9) -5.2 (8)	-5.2 (8)
GROUND (PIN)	(8)	(8)	(7)	(7)	(8)	(8)	(16)	(1,16)

I.C. LIST							
REF DES	3A, C, D, E, G, H, 6K, 7K, 8M	2R, S, 4T, U	4D, H, 7H	2A, C, E, G	1L, M, N, P, 2B, D, F, H, M, 3L, P, 4B, C, F, G, 5A, B, 5E, G, K, 6A, B, C, D, E, F, 7F, G, J, L, M, 7N, T, U, 8K, 8T, 9K, N, 10K, M, N, P, R, 10S	2N, P, 3B, F, N, 4N, 5L, M, 5N, 6L, N, M	4L, M, 6T, U, 8R, S, 9R, S
AMPEX P/N	000-127	590-335	590-859	590-584	590-855	590-586	000-128
VENDOR P/N	745381	74LS273	745182	74LS244	745374	74LS374	745283
VOLTAGE (PIN)	+5 (20)	+5 (20)	+5 (16)	+5 (20)	+5 (20)	+5 (20)	+5 (16)
GROUND (PIN)	(10)	(10)	(8)	(10)	(10)	(10)	(8)

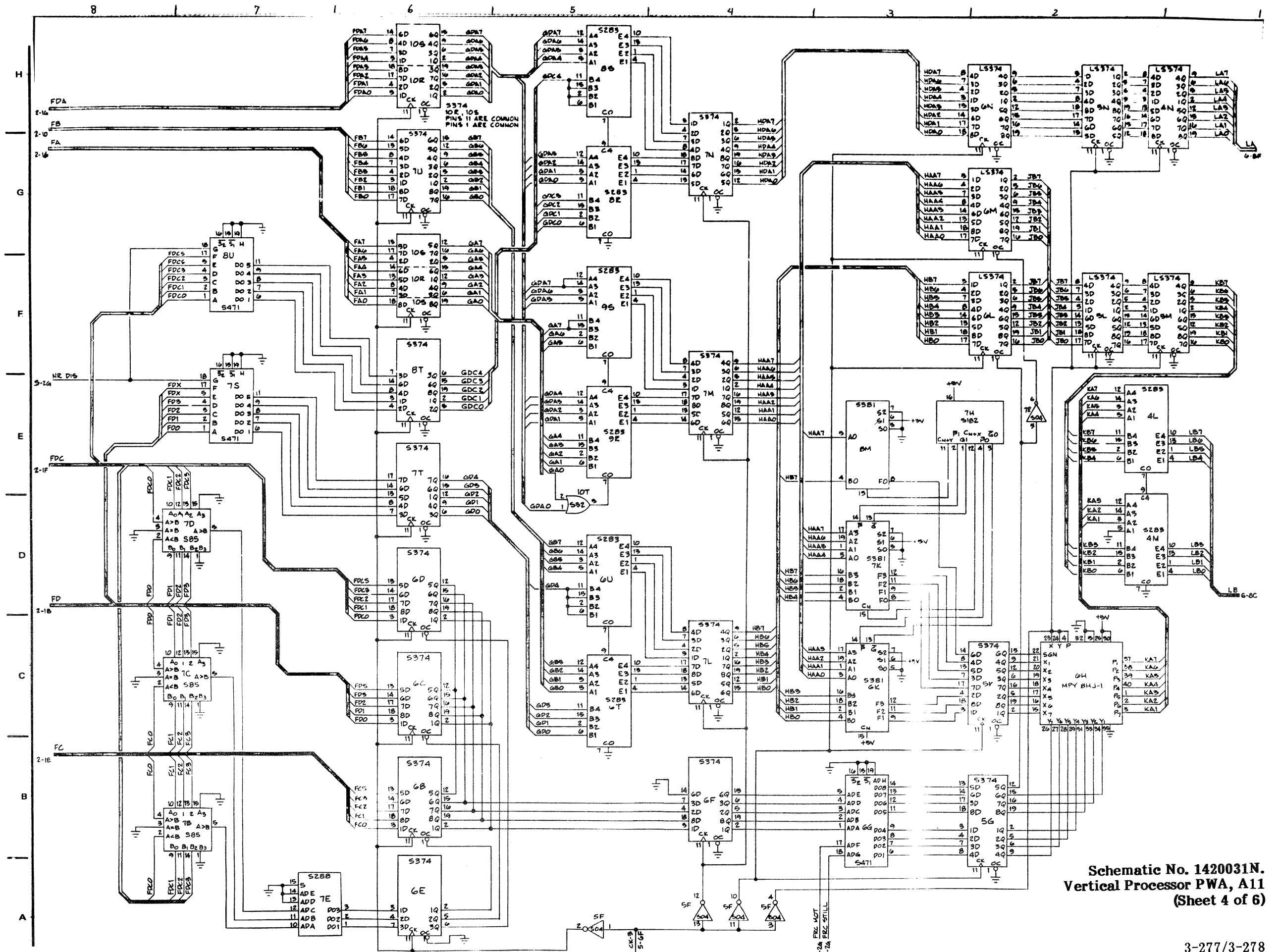
7B, C, D	1R, 1S	10T	2K	5U	3R, S, U, T, 4R, S	8L, 9L, 10L, 5R, S, T	2L	1U, T, 2U, 5C, D, 9M, 8N	6H
590-843	589-823	590-845	001-077	589-839	589-821	589-850	590-868	590-227	590-987
74585	74LS138	74532	10176	74508	74LS85	745163	745244	25509	MPY-8HJ-1
+5 (16)	+5 (16)	+5 (14)	-5.2 (8)	+5 (14)	+5 (16)	+5 (16)	+5 (20)	+5 (16)	+5 (30)
(8)	(8)	(7)	(1,16)	(7)	(8)	(8)	(10)	(8)	(32)

Schematic No. 1420031N. Vertical Processor PWA, A11 (Sheet 1 of 6)

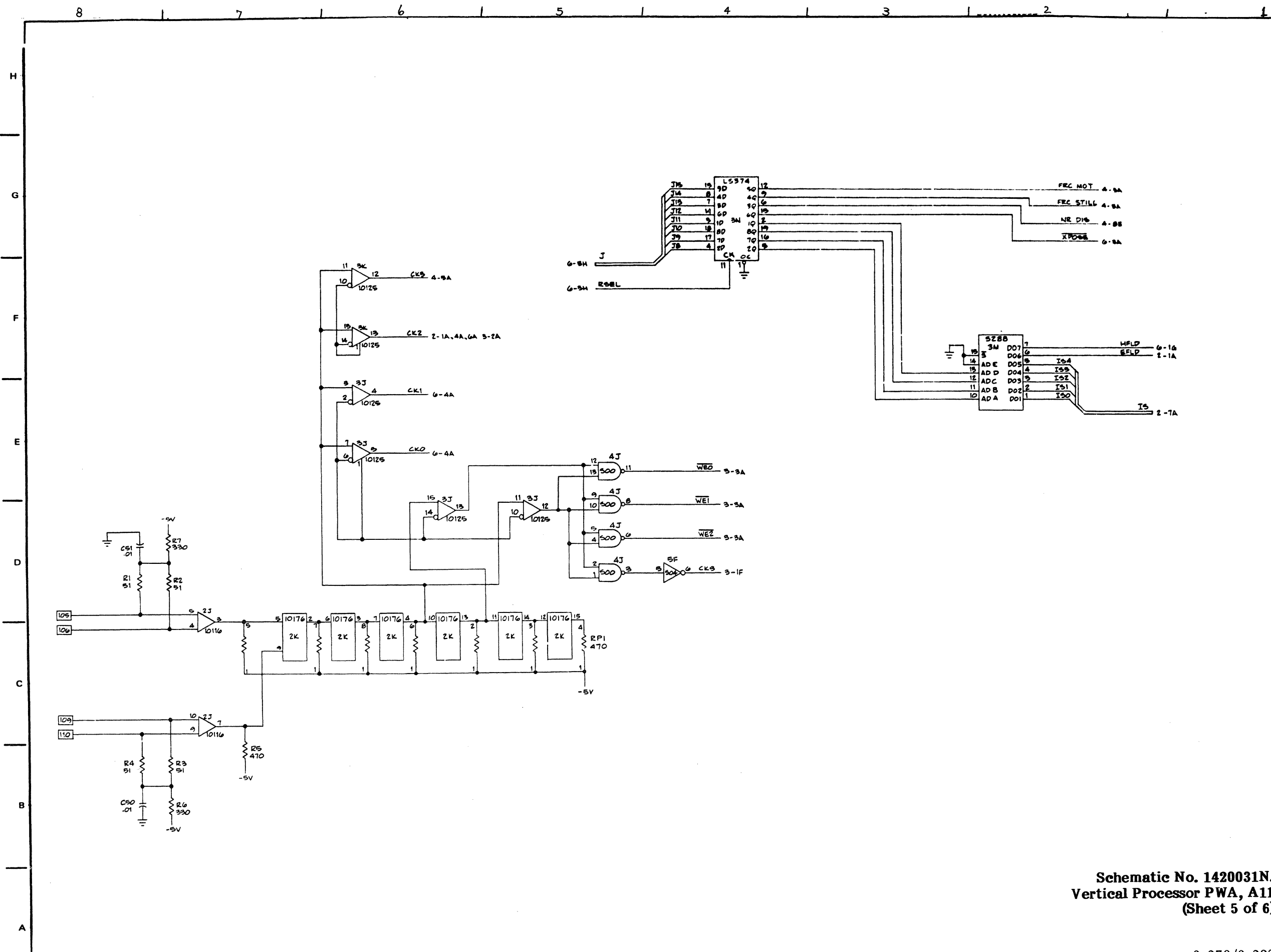




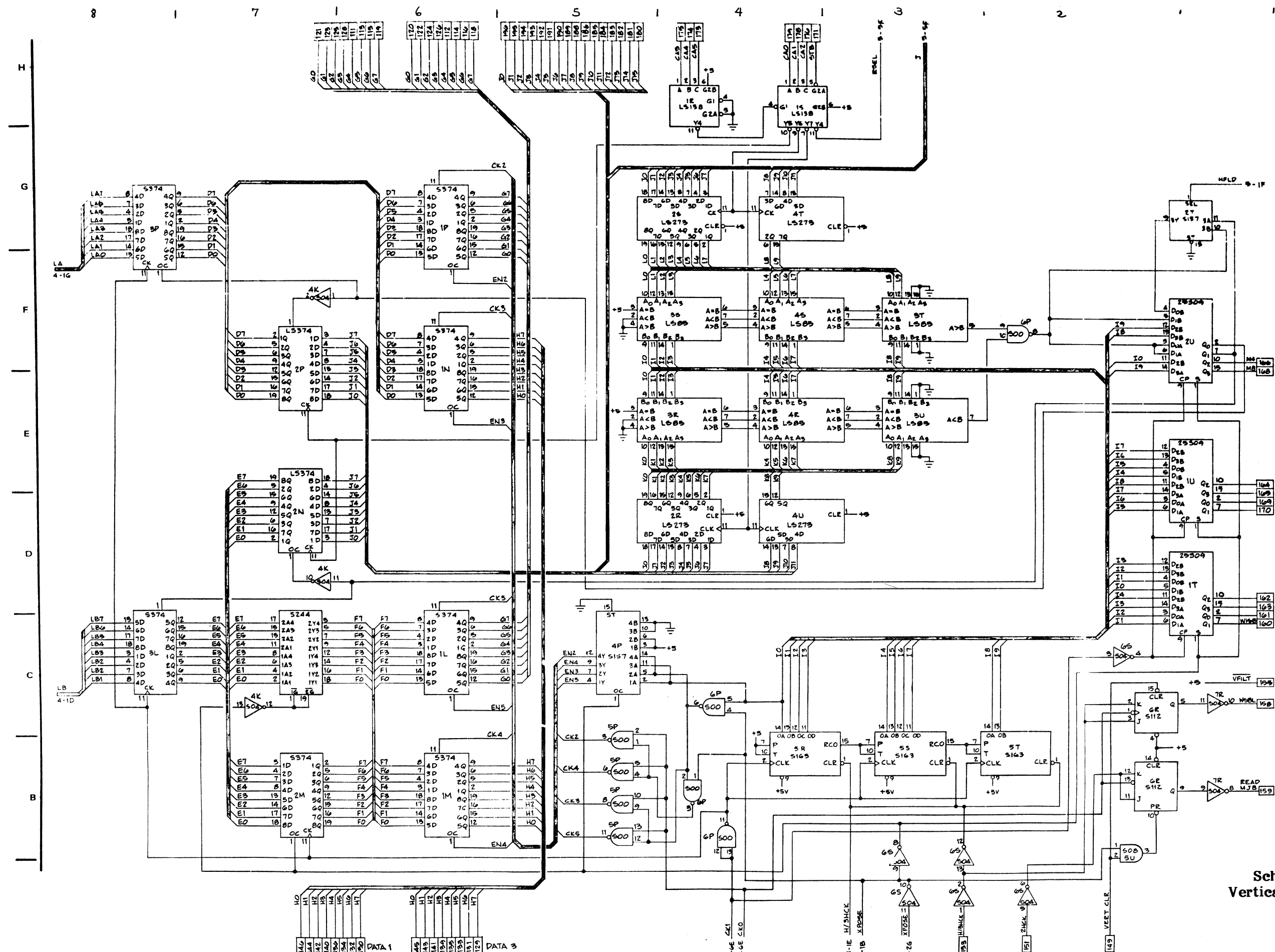
Schematic No. 1420031N.
Vertical Processor PWA, A11
(Sheet 3 of 6)



Schematic No. 1420031N.
Vertical Processor PWA, A11
(Sheet 4 of 6)



Schematic No. 1420031N.
Vertical Processor PWA, A11
(Sheet 5 of 6)



Schematic No. 1420031N.
Vertical Processor PWA, A11
(Sheet 6 of 6)