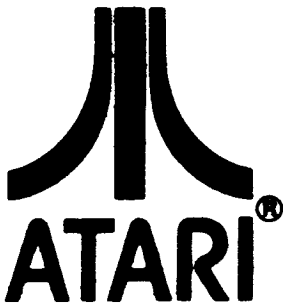


130XE™ REFERENCE MANUAL

ATARI®



ATARI (U.S.) CORP.

JUNE 1985

LOCATION	DESCRIPTION	PART NUMBER
R40,53,90,117,118, R119,128-131	RES; 100 OHM 1/4W 5% CARBON	14-5101
R10,13,14,37,41-45, R72,80	RES; 1K OHM 1/4W 5% CARBON	14-5102
R70	RES; 10K OHM 1/4W 5% CARBON	14-5103
R29 ALT	RES; 1M OHM 1/4W 5% CARBON	14-5105
R205	RES; 150 OHM 1/4W 5% CARBON	14-5151
R46	RES; 1.6K OHM 1/4W 5% CARBON	14-5162
R202	RES; 180 OHM 1/4W 5% CARBON	14-5181
R76-79	RES; 1.8K OHM 1/4W 5% CARBON	14-5182
R48	RES; 18K OHM 1/4W 5% CARBON	14-5183
R2,7,52	RES; 2K OHM 1/4W 5% CARBON	14-5202
R18,27,95,120-127, R132-136	RES; 220 OHM 1/4W 5% CARBON	14-5221
R1,11,26	RES; 2.2K OHM 1/4W 5% CARBON	14-5222
R137-153	RES; 270 OHM 1/4W 5% CARBON	14-5271
R91	RES; 2.7K OHM 1/4W 5% CARBON	14-5272
R12,15,19-22,30,31, R33,34,74,75,85-88	RES; 3K OHM 1/4W 5% CARBON	14-5302
R110,111	RES; 33 OHM 1/4W 5% CARBON	14-5330
R9,23-25,203,206	RES; 3.3K OHM 1/4W 5% CARBON	14-5332
R35	RES; 33K OHM 1/4W 5% CARBON	14-5333
R47	RES; 36K OHM 1/4W 5% CARBON	14-5363
R204	RES; 47 OHM 1/4W 5% CARBON	14-5470
R50,81-84,92-94	RES; 4.7K OHM 1/4W 5% CARBON	14-5472
R89,96	RES; 47K OHM 1/4W 5% CARBON	14-5473
R5,200	RES; 470K OHM 1/4W 5% CARBON	14-5474
R116	RES; 51 OHM 1/4W 5% CARBON	14-5510
R8	RES; 5.1K OHM 1/4W 5% CARBON	14-5512
R4,39	RES; 56K OHM 1/4W 5% CARBON	14-5563

LOCATION	DESCRIPTION	PART NUMBER
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R3	RES; 6.2K OHM 1/4W 5% CARBON	14-5622
R36	RES; 680 OHM 1/4W 5% CARBON	14-5681
R69,201	RES; 6.8K OHM 1/4W 5% CARBON	14-5682
R6	RES; 68K OHM 1/4W 5% CARBON	14-5683
R51	RES; 750 OHM 1/4W 5% CARBON	14-5751
R49	RES; 9.1K OHM 1/4W 5% CARBON	14-5912
R28 ALT	RES; 910K OHM 1/4W 5% CARBON	14-5914
Q1-5	TRANSISTOR; 2N3904 NPN	34-2N3904
	OWNERS MANUAL	CA025951-001
	PCB ASSEMBLY	CA070012-001
U20	IC, CD4050B	C010816
U22	IC, CUSTOM CHIP "POKEY"	C012294
J1	CONN; 13PIN RIGHT ANGLE SIO	C012995
C59,206	CAP; 22PF CERAMIC AXIAL, NPO	C014179-01
C44	CAP; 68PF CERAMIC AXIAL, NPO	C014179-12
C60	CAP; 56PF CERAMIC AXIAL, NPO	C014179-14
C33 ALT	CAP; 10PF CERAMIC AXIAL, NPO	C014179-22
C32 ALT	CAP; 18PF CERAMIC AXIAL, NPO	C014179-28
C45	CAP; 220PF CERAMIC AXIAL, NPO	C014180-05
C17,23,63-66	CAP; .047UF CERAMIC AXIAL, NPO	C014180-09
C5,6,8,9,12,14,15, C46,47,71-78,80-92, C96,97,102,112	CAP; 1000PF CERAMIC AXIAL, NPO	C014181-01
C7,11,94,95	CAP; .01UF CERAMIC AXIAL, NPO	C014181-02
C4,13,16,18,26-31, C34-43,48,51, C62,68-70,93,101, C103,105,113-120, C200,201,204,205	CAP; .1UF CERAMIC AXIAL, NPO	C014181-03
U24,25	IC, CD4051B	C014336

LOCATION	DESCRIPTION	PART NUMBER
U2 ALT	IC,	CO14344
C1	CAP: 470UF 10V ELEC. RADIAL	CO14368
L14	INDUCTOR: 22UH 10% AXIAL	CO14380
L15-23,25-30	INDUCTOR: 10UH 10% AXIAL	CO14381
L1-3,5,7,9-12,31,37, L102,103	INDUCTOR: AXIAL FERRITE BEAD	CO14384
C24,50,98	CAP: 10UF 16V ELEC. RADIAL	CO14392
C2,3,10,79	CAP: 22UF 16V ELEC. AXIAL	CO14393
U23	IC, 6520A PIA	CO14795
U17	IC, CUSTOM GTIA CHIP	CO14805
U8	IC, CUSTOM "SALLY"	CO14806
Q7	TRANSISTOR: MPSA55	CO14809
U18	IC, 74LS08	CO17097
L13	INDUCTOR: 1.5UH 10% AXIAL	CO17222
L6,32	INDUCTOR: 100UH 10% AXIAL	CO17948-04
J5,6	CONN: 9PIN DSUB RIGHT ANGLE	CO19062
U19	IC, 555	CO19748
U7	IC, CUSTOM ANTIC "E"	CO21697
R38	RES: 500K OHM VARIABLE	CO23030-04
U4	IC, CUSTOM 8K X 8 BASIC ROM "C"	CO24947A
U34	IC, CUSTOM GATE ARRAY	CO25953
CR2-5	DIODE: 1N4148	CO60607
U9-16,26,33	IC, 64K X 1 DRAM 150/200NS	CO60612
W1,2	RES: 0 OHM, JUMPER	CO60629
S1	SWITCH: POWER SPDT ROCKER	CO61022
U2	IC, 74LS138	CO61428
U5	IC, CUSTOM 16K X 8 O.S. ROM	CO61598
U3	IC, CUSTOM MMU CHIP	CO61618
C19,20,22	CAP: 4.7UF 35V NONPOLARIZED	CO61647

LOCATION	DESCRIPTION	PART NUMBER
U1	IC, LM358	C061702
J8	CONN; 24PIN KEYBOARD	C061793
J7	CONN; 7PIN DIN POWER	C061838
U6	IC, CUSTOM CHIP "FREDDIE"	C061922
	POWER ADAPTOR	C061982
U6 ALT	IC,	C061991
A1	RF MODULATOR	C070000
S1 ALT	SWITCH	C070006
	KEYBOARD ASSEMBLY	C070015
	OSC MODULE 14.31818MHZ OSC	C070024
Y1 ALT	CRYSTAL 14.31818MHZ	C070032
J2	CONN; 5PIN DIN MONITOR	C070033
Y1 ALT	CRYSTAL 14.187576MHZ	C070034
	TOP HOUSING	C070054
	BOTTOM HOUSING	C070055-001
	SHIELD TOP	C070061
	SHIELD BOTTOM	C070062
J4	CONN; DUAL 30P & 14P	C070064
REFERENCE	SCHEMATIC DIAGRAM	C070065
C301-310	CAP; 1000PF CERAMIC RADIAL	C070121
	KEYCAP KIT	T/B/A

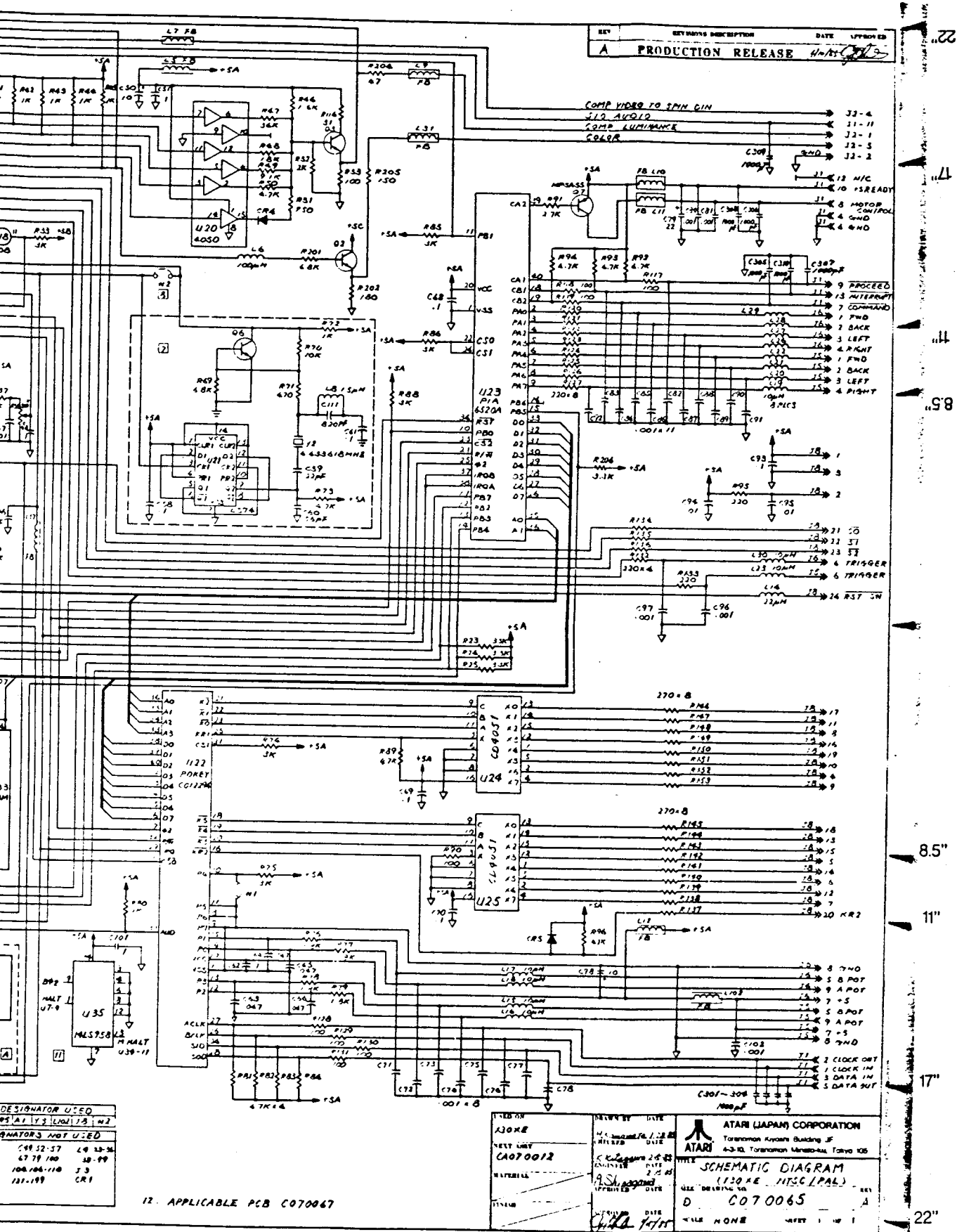
DESCRIPTION	PART NUMBER	PRICE	MINIMUM ORDER	EXT.
RES; 100 OHM 1/4W 5% CARBON	14-5101	0.01	100	1.00
RES; 1K OHM 1/4W 5% CARBON	14-5102	0.01	100	1.00
RES; 10K OHM 1/4W 5% CARBON	14-5103	0.01	100	1.00
RES; 1M OHM 1/4W 5% CARBON	14-5105	0.01	100	1.00
RES; 150 OHM 1/4W 5% CARBON	14-5151	0.01	100	1.00
RES; 1.6K OHM 1/4W 5% CARBON	14-5162	0.01	100	1.00
RES; 180 OHM 1/4W 5% CARBON	14-5181	0.01	100	1.00
RES; 1.8K OHM 1/4W 5% CARBON	14-5182	0.01	100	1.00
RES; 18K OHM 1/4W 5% CARBON	14-5183	0.01	100	1.00
RES; 2K OHM 1/4W 5% CARBON	14-5202	0.01	100	1.00
RES; 220 OHM 1/4W 5% CARBON	14-5221	0.01	100	1.00
RES; 2.2K OHM 1/4W 5% CARBON	14-5222	0.01	100	1.00
RES; 270 OHM 1/4W 5% CARBON	14-5271	0.01	100	1.00
RES; 2.7K OHM 1/4W 5% CARBON	14-5272	0.01	100	1.00
RES; 3K OHM 1/4W 5% CARBON	14-5302	0.01	100	1.00
RES; 33 OHM 1/4W 5% CARBON	14-5330	0.01	100	1.00
RES; 3.3K OHM 1/4W 5% CARBON	14-5332	0.01	100	1.00
RES; 33K OHM 1/4W 5% CARBON	14-5333	0.01	100	1.00
RES; 36K OHM 1/4W 5% CARBON	14-5363	0.01	100	1.00
RES; 47 OHM 1/4W 5% CARBON	14-5470	0.01	100	1.00
RES; 4.7K OHM 1/4W 5% CARBON	14-5472	0.01	100	1.00
RES; 47K OHM 1/4W 5% CARBON	14-5473	0.01	100	1.00
RES; 470K OHM 1/4W 5% CARBON	14-5474	0.01	100	1.00
RES; 51 OHM 1/4W 5% CARBON	14-5510	0.01	100	1.00
RES; 5.1K OHM 1/4W 5% CARBON	14-5512	0.01	100	1.00
RES; 56K OHM 1/4W 5% CARBON	14-5563	0.01	100	1.00
RES; 6.2K OHM 1/4W 5% CARBON	14-5622	0.01	100	1.00
RES; 680 OHM 1/4W 5% CARBON	14-5681	0.01	100	1.00

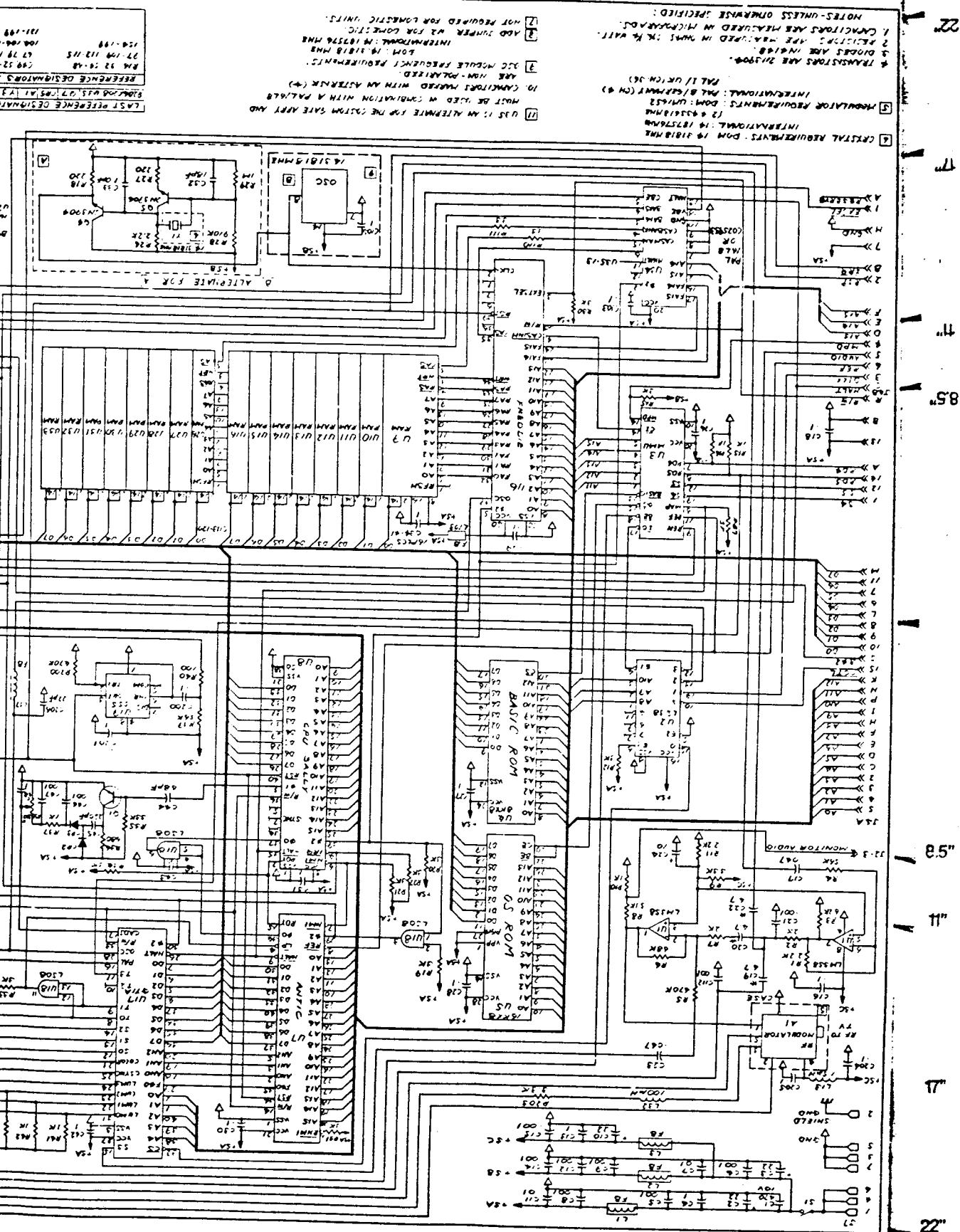
DESCRIPTION	PART NUMBER	PRICE	MINIMUM ORDER	EXT.
RES: 6.8K OHM 1/4W 5% CARBON	14-5682	0.01	100	1.00
RES: 68K OHM 1/4W 5% CARBON	14-5683	0.01	100	1.00
RES: 750 OHM 1/4W 5% CARBON	14-5751	0.01	100	1.00
RES: 9.1K OHM 1/4W 5% CARBON	14-5912	0.01	100	1.00
RES: 910K OHM 1/4W 5% CARBON	14-5914	0.01	100	1.00
TRANSISTOR: 2N3904 NPN	34-2N3904	0.11	10	1.06
OWNERS MANUAL	CA025951-001	2.78	1	2.78
PCB ASSEMBLY	CA070012-001	167.43	1	167.43
IC, CD4050B	C010816	0.43	5	2.15
IC, CUSTOM CHIP "POKEY"	C012294	5.10	1	5.10
CONN: 13PIN RIGHT ANGLE SIO	C012995	0.72	2	1.44
CAP: 22PF CERAMIC AXIAL, NPO	C014179-01	0.04	25	1.00
CAP: 68PF CERAMIC AXIAL, NPO	C014179-12	0.03	50	1.50
CAP: 56PF CERAMIC AXIAL, NPO	C014179-14	0.04	25	1.00
CAP: 10PF CERAMIC AXIAL, NPO	C014179-22	0.09	25	2.25
CAP: 18PF CERAMIC AXIAL, NPO	C014179-28	0.04	25	1.00
CAP: 220PF CERAMIC AXIAL, NPO	C014180-05	0.04	25	1.00
CAP: .047UF CERAMIC AXIAL, NPO	C014180-09	0.13	10	1.30
CAP: 1000PF CERAMIC AXIAL, NPO	C014181-01	0.03	50	1.50
CAP: .01UF CERAMIC AXIAL, NPO	C014181-02	0.03	50	1.50
CAP: .1UF CERAMIC AXIAL, NPO	C014181-03	0.03	50	1.50
IC, CD4051B	C014336	0.88	2	1.76
IC,	C014344	0.87	2	1.74
CAP: 470UF 10V ELEC. RADIAL	C014368	0.15	10	1.50
INDUCTOR: 22UH 10% AXIAL	C014380	0.10	10	1.00
INDUCTOR: 10UH 10% AXIAL	C014381	0.09	25	2.25
INDUCTOR: AXIAL FERRITE BEAD	C014384	0.04	25	1.00
CAP: 10UF 16V ELEC. RADIAL	C014392	0.05	25	1.25

DESCRIPTION	PART NUMBER	PRICE	MINIMUM ORDER	EXT.
CAP; 22UF 16V ELEC. AXIAL	C014393	0.11	10	1.10
IC, 6520A P1A	C014795	4.05	1	4.05
IC, CUSTOM GT1A CHIP	C014805	4.80	1	4.80
IC, CUSTOM "SALLY"	C014806	6.30	1	6.30
TRANSISTOR; MPSA55	C014809	0.14	10	1.40
IC, 74LS08	C017097	0.34	5	1.70
INDUCTOR; 1.5UH 10% AXIAL	C017222	0.10	10	1.00
INDUCTOR; 100UH 10% AXIAL	C017948-04	0.10	10	1.00
CONN; 9PIN DSUB RIGHT ANGLE	C019062	0.41	3	1.23
IC, 555	C019748	0.49	3	1.47
IC, CUSTOM ANTIC "E"	C021697	6.70	1	6.70
RES; 500K OHM VARIABLE	C023030-04	0.12	10	1.20
IC, CUSTOM 8K X 8 BASIC ROM "C"	C024947A	3.60	1	3.60
IC, CUSTOM GATE ARRAY	C025953	3.00	1	3.00
DIODE; 1N4148	C060607	0.03	50	1.50
IC, 64K X 1 DRAM 150/200NS	C060612	1.95	1	1.95
RES; 0 OHM, JUMPER	C060629	0.01	100	1.00
SWITCH; POWER SPDT ROCKER	C061022	3.30	1	3.30
IC, 74LS138	C061428	0.87	2	1.74
IC, CUSTOM 16K X 8 O.S. ROM	C061598	6.60	1	6.60
IC, CUSTOM MMU CHIP	C061618	3.00	1	3.00
CAP; 4.7UF 35V NONPOLARIZED	C061647	0.10	10	1.00
IC, LM358	C061702	0.44	5	2.20
CONN; 24PIN KEYBOARD	C061793	0.35	5	1.75
CONN; 7PIN DIN POWER	C061838	0.41	5	2.05
IC, CUSTOM CHIP "FREDDIE"	C061922	6.00	1	6.00
POWER ADAPTOR	C061982	16.88	1	16.88
IC,	C061991	4.80	1	4.80

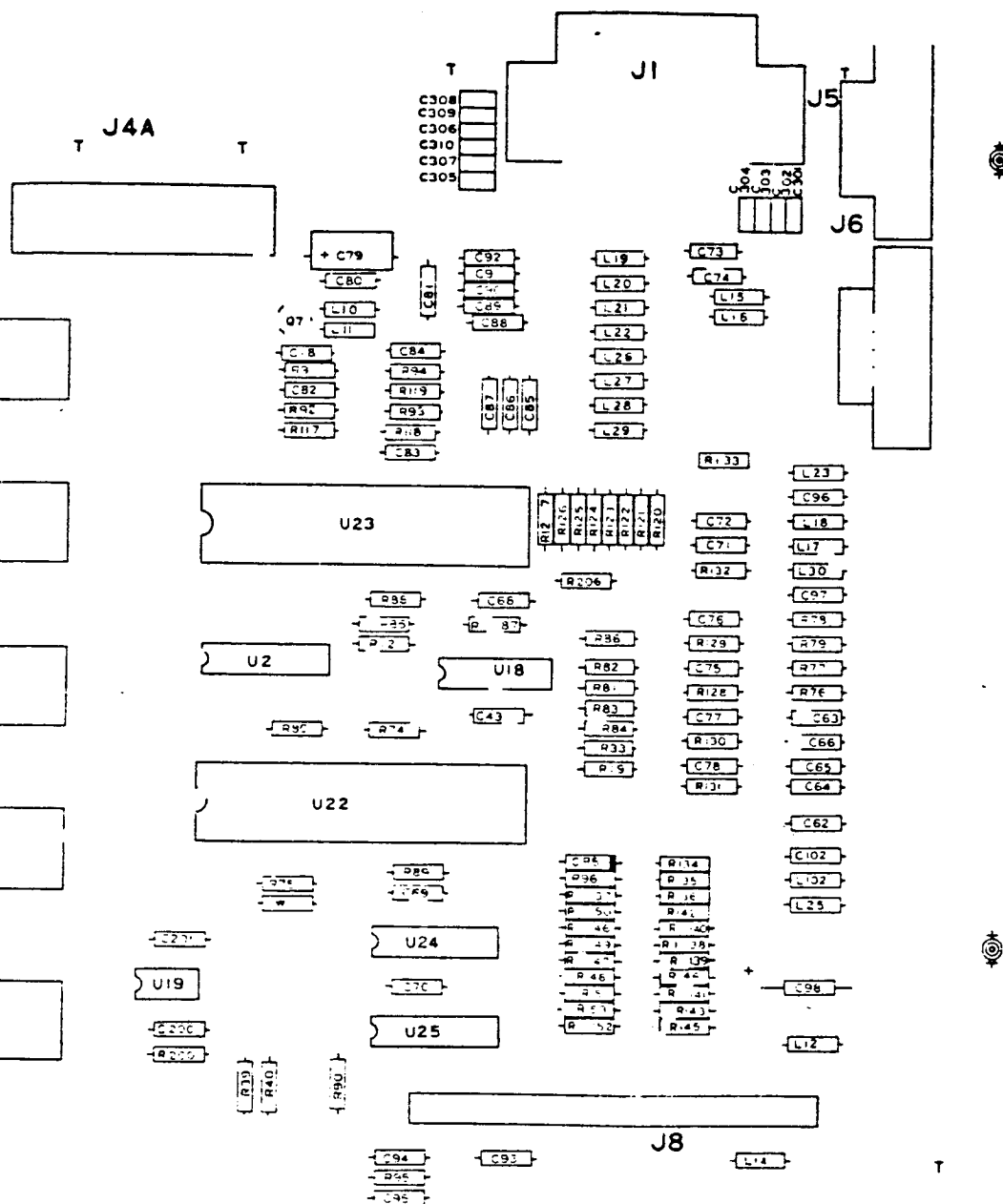
DESCRIPTION	PART NUMBER	PRICE	MINIMUM QTY	EXT.
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RF MODULATOR	C070000	6.70	1	6.70
SWITCH	C070006	1.28	1	1.28
KEYBOARD ASSEMBLY	C070015	15.86	1	15.86
OSC MODULE 14.31818MHZ OSC	C070024	3.09	1	3.09
CRYSTAL 14.31818MHZ	C070032	0.80	2	1.60
CONN; SPIN DIN MONITOR	C070033	0.30	5	1.50
CRYSTAL 14.187576MHZ	C070034	0.80	2	1.60
TOP HOUSING	C070054	1.95	1	1.95
BOTTOM HOUSING	C070055-001	2.29	1	2.29
SHIELD TOP	C070061	0.81	2	1.62
SHIELD BOTTOM	C070062	0.64	2	1.28
CONN; DUAL 30P & 14P	C070064	2.00	1	2.00
SCHEMATIC DIAGRAM	C070065	N/C		0.00
CAP; 1000PF CERAMIC RADIAL	C070121	0.15	10	1.50
KEYCAP KIT	T/B/A	7.00	1	7.00

PRICE SUBJECT TO CHANGE WITHOUT NOTICE!






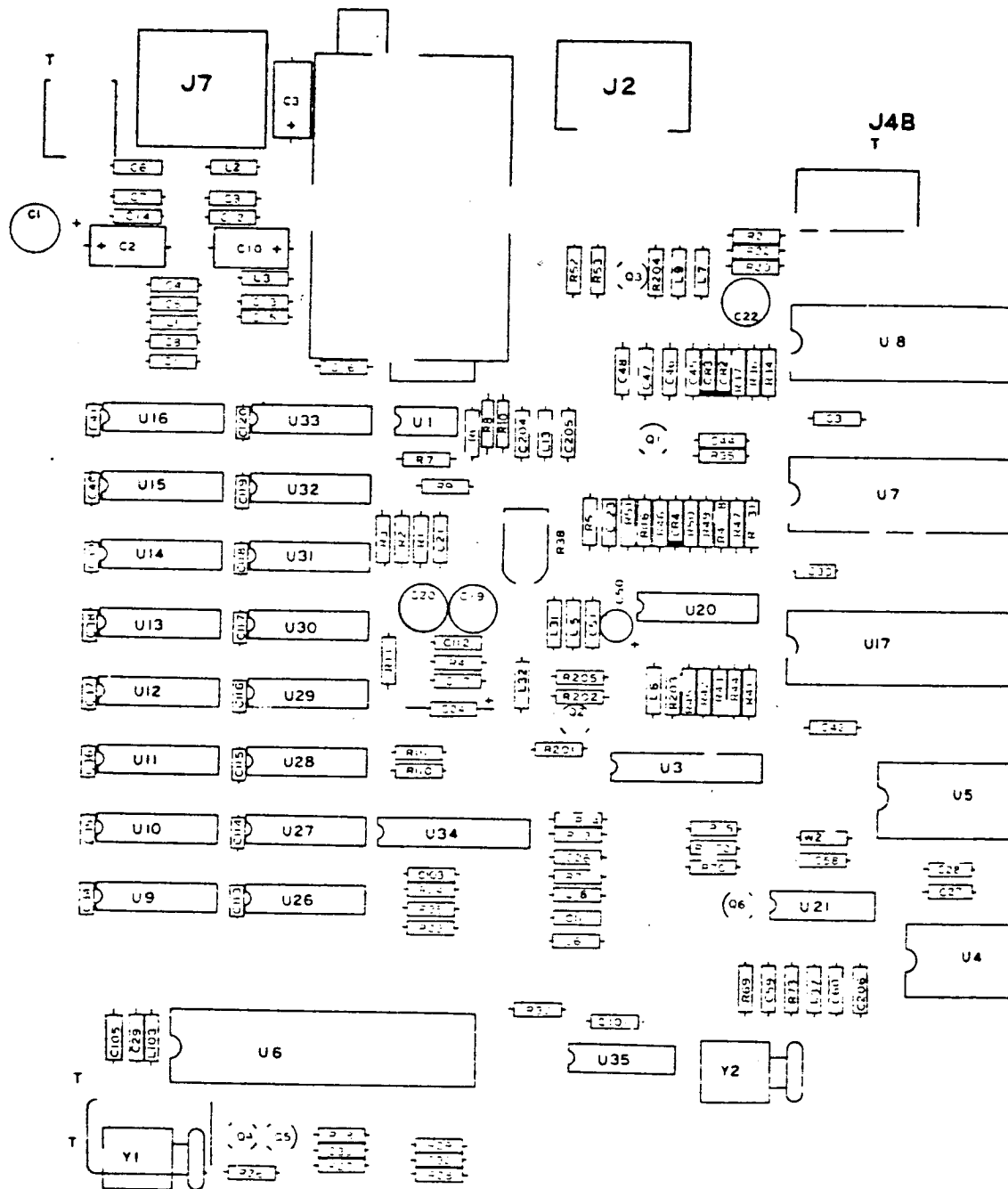
REV	REVISIONS DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	4/10/85	<i>[Signature]</i>



W-1894HB

USED ON 130XE	DRAWN BY K. Kitagawa	DATE 4-10-85	 ATARI (JAPAN) CORPORATION Toranomon Kiyoshi Building 3F 4-3-10, Toranomon Minato-ku, Tokyo 105
NEXT ASSY CA070012	CHECKED A. Shinagawa	DATE 4-10-85	
MATERIAL	ENGINEER A. Shinagawa	DATE 4-10-85	TITLE P.C.B
FINISH	APPROVED [Signature]	DATE 4-10-85	SIZE B DRAWING NO. C070067 REV A
SCALE NONE			SHEET 1 OF 5

THIRD ANGLE SYSTEM DIMENSION

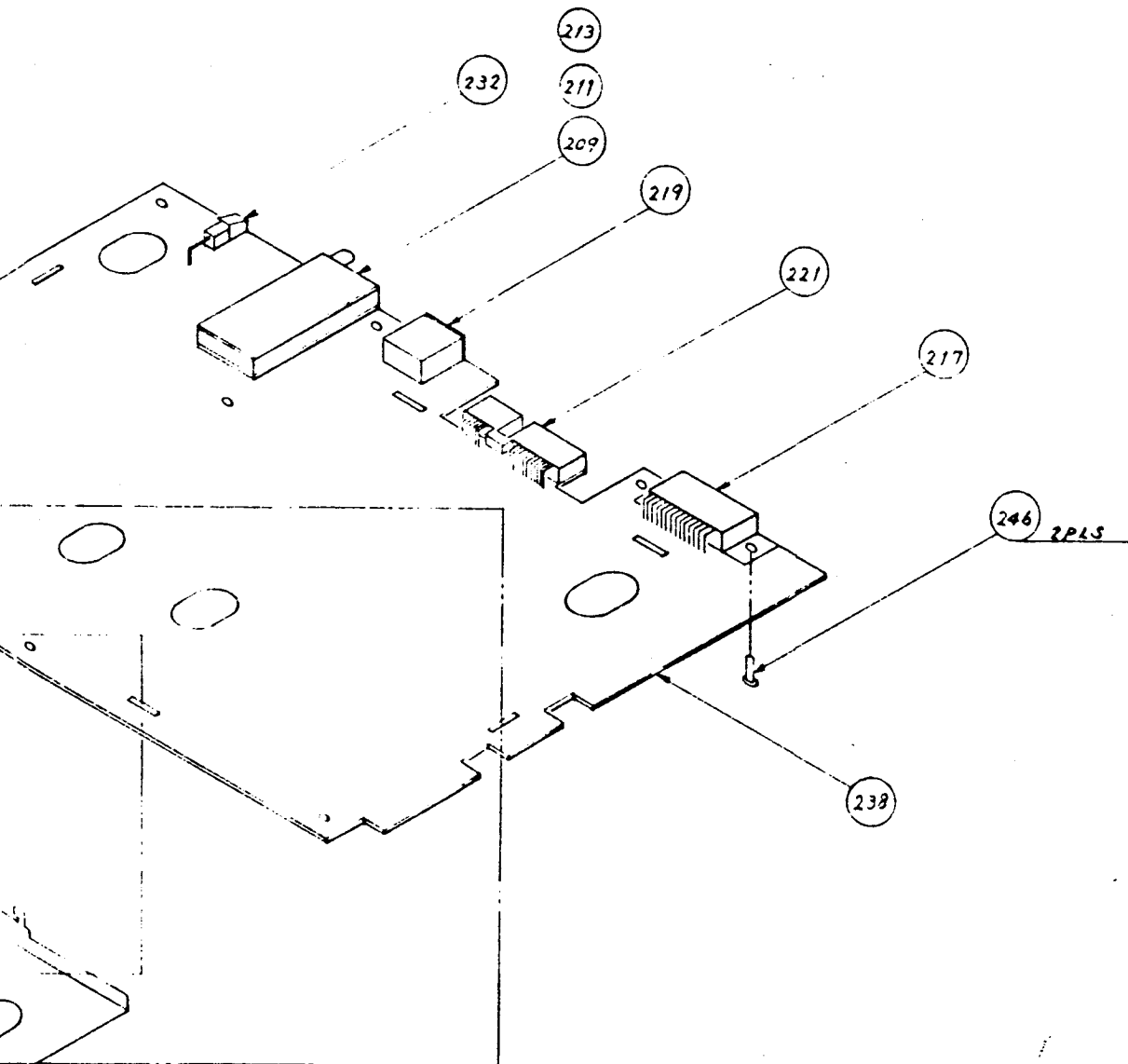


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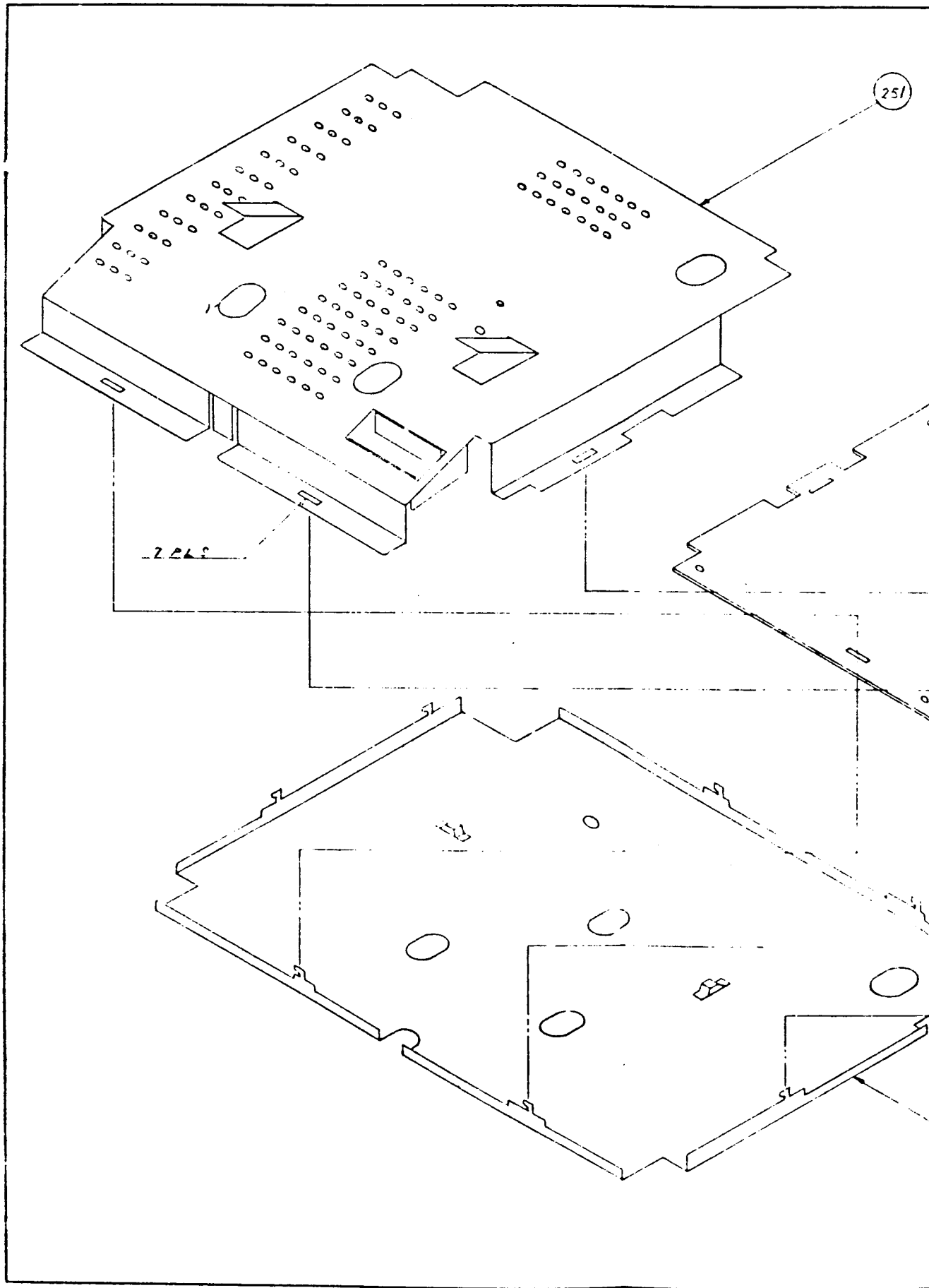
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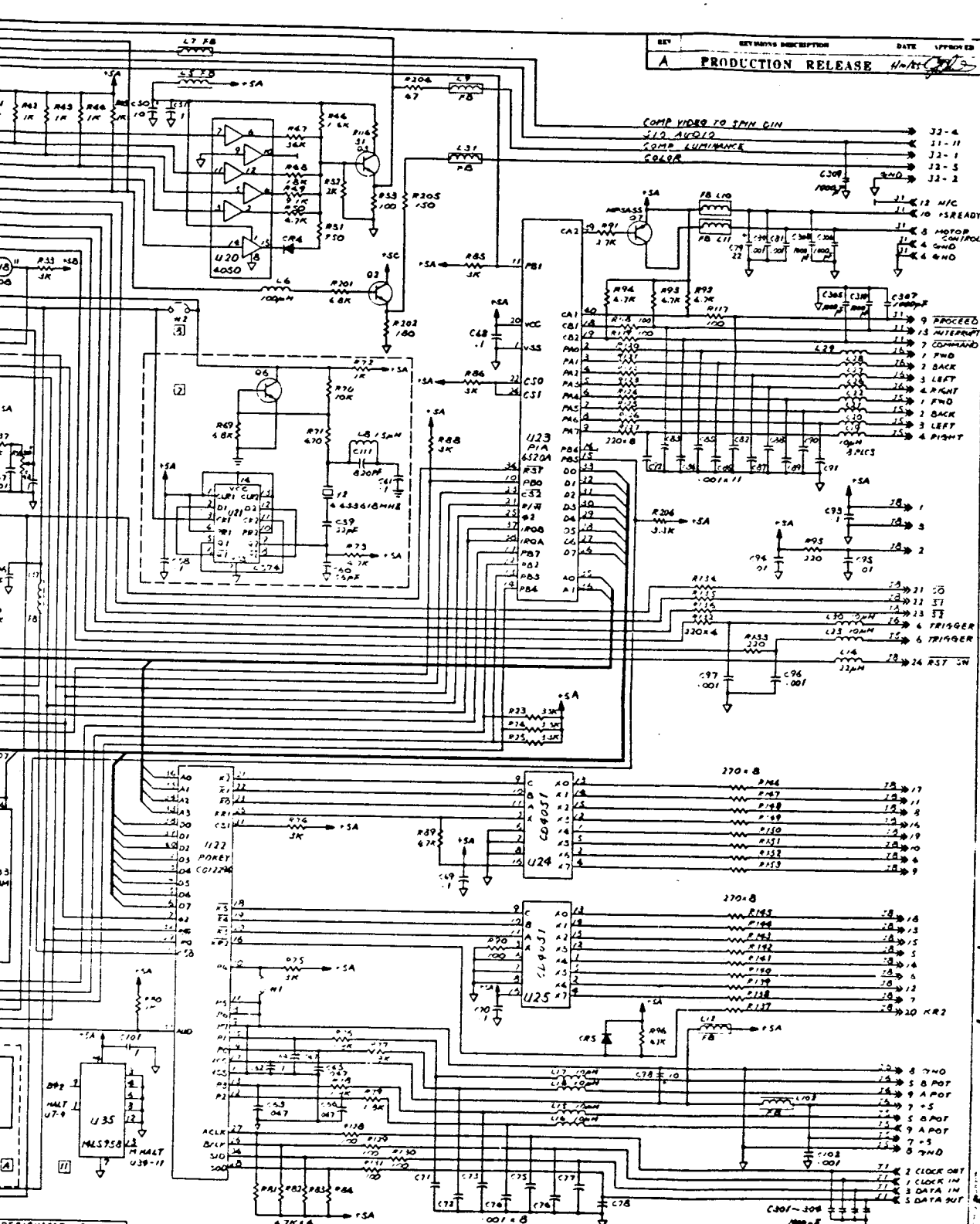
NOTES-UNLESS OTHERWISE SPECIFIED:

REV	REVISIONS DESCRIPTION	DATE	APPROVED
	SEE SHEET 1		



DESIGNED 130AE NEXT ASSY CA070007 MATERIAL FINISH	DRAWN BY H. Yamamura CHECKED DATE 2-7-85	ATARI (JAPAN) CORPORATION Toranomon Kiyoshi Building 3F 4-3-10, Toranomon Minato-ku, Tokyo 106	
	APPROVED DATE APPROVED DATE	TITLE PCB ASSY SIZE C DRAWING NO. CA070012-AXX SCALE NONE	
		REV A	SHEET 7 OF 7





REV A
DESCRIPTION
DATE 11/11/82
APPROVED

COMP VIDEO TO SPIN GIN
11.2 VIDEO
COMP LUMINANCE
COLOR

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DESIGNATOR USED

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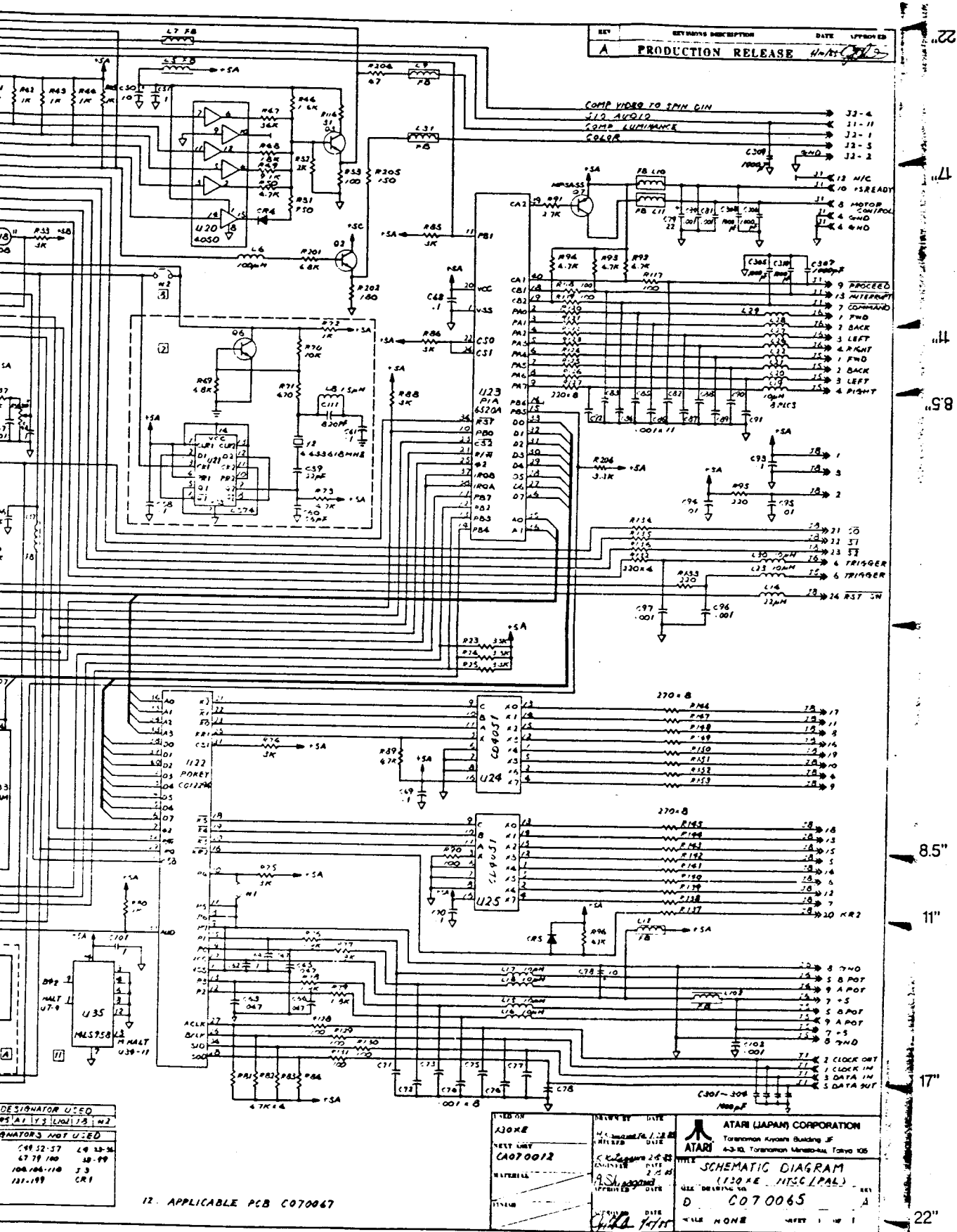
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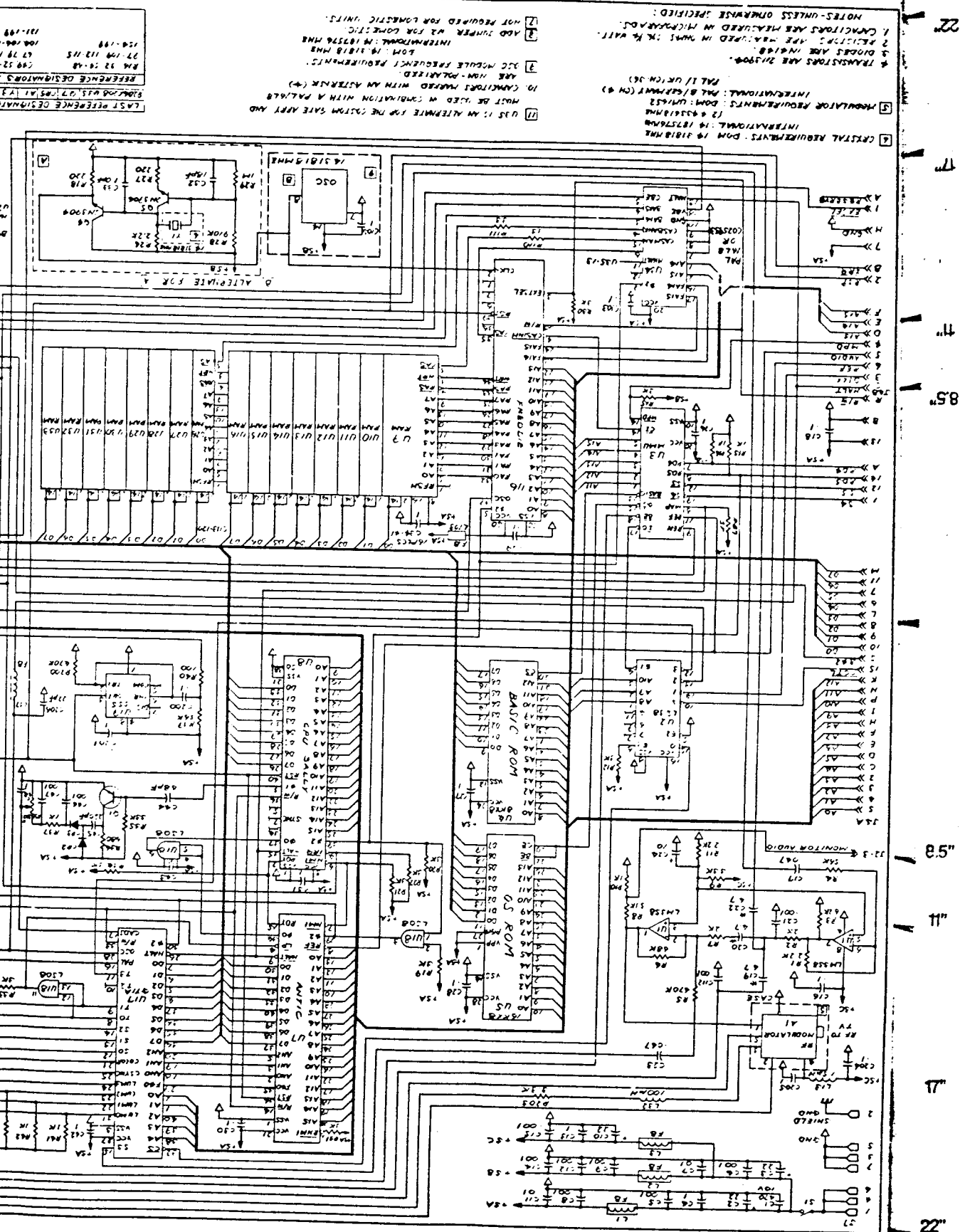
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12. APPLICABLE PCB C070067

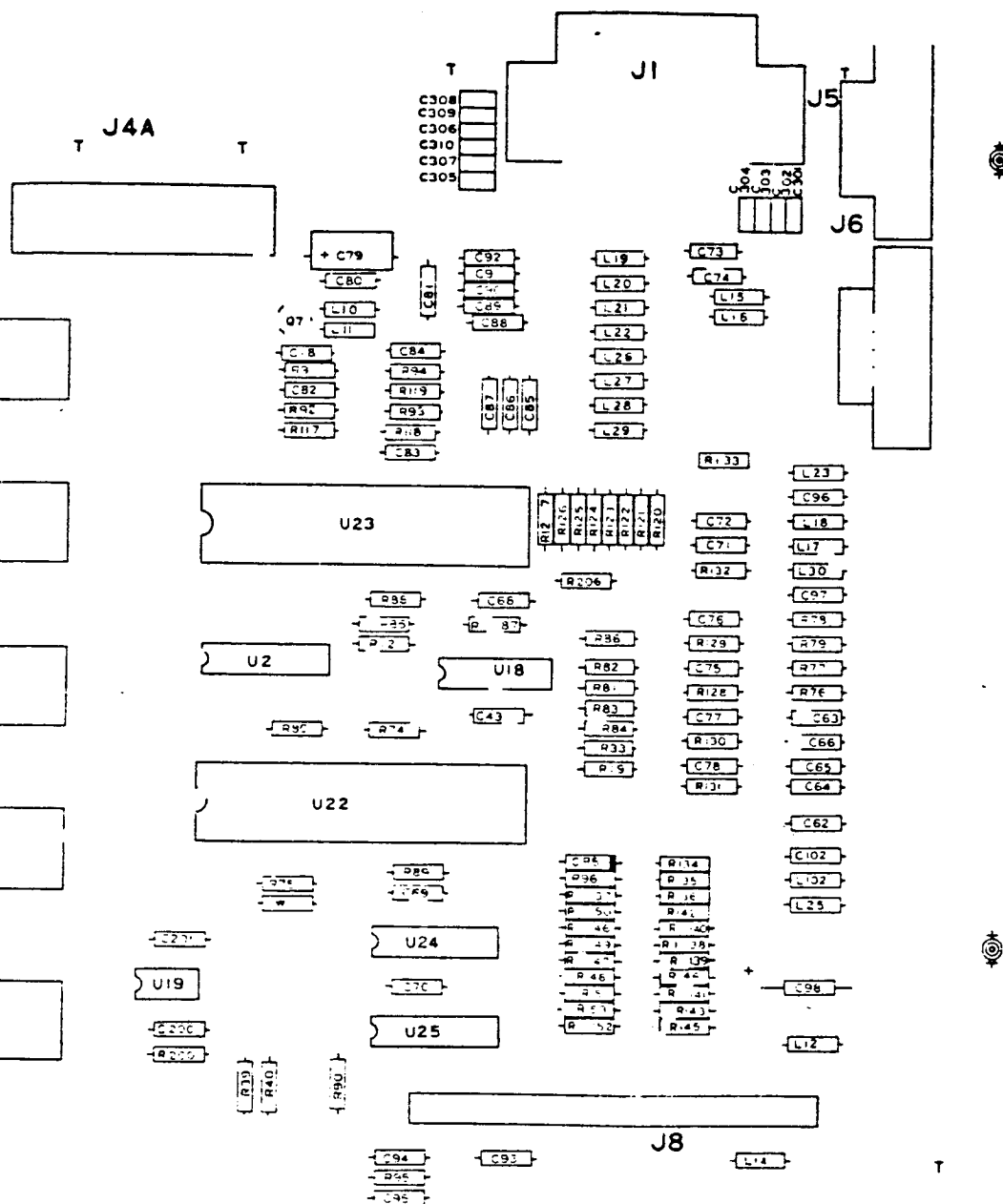
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REV	REVISIONS DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	4/10/85	<i>[Signature]</i>



W-1894HB

USED ON 130XE	DRAWN BY K. Kitagawa	DATE 4-10-85	 ATARI (JAPAN) CORPORATION Toranomon Kiyoshi Building 3F 4-3-10, Toranomon Minato-ku, Tokyo 105
NEXT ASSY CA070012	CHECKED A. Shinagawa	DATE 4-10-85	
MATERIAL	ENGINEER A. Shinagawa	DATE 4-10-85	TITLE P.C.B
FINISH	APPROVED [Signature]	DATE 4-10-85	SIZE B DRAWING NO. C070067 REV A
SCALE NONE			SHEET 1 OF 5

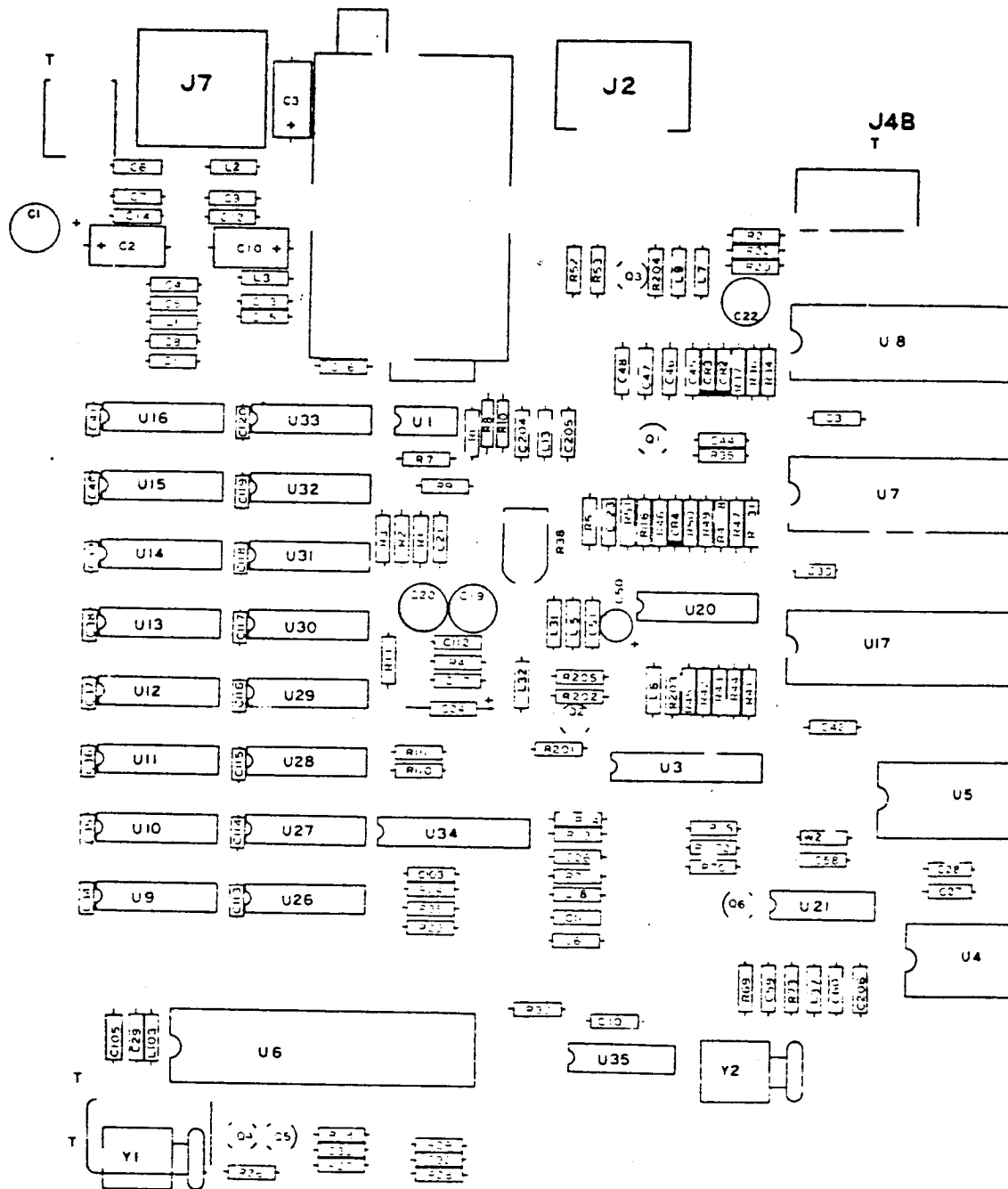
THIRD ANGLE SYSTEM DIMENSION

The schematic diagram illustrates the layout of an electronic circuit board. Key components and their locations are as follows:

- Connectors:** J4A (top left), J5 (top right), J6 (middle right), J8 (bottom center).
- ICs and Functional Blocks:**
 - U19, U18, U24, U25 (bottom section)
 - U22, U23 (middle section)
 - U2 (left middle)
 - U1 (top middle)
- Resistors (R):** R1 through R45, including R1A, R1B, R1C, R1D, R1E, R1F, R1G, R1H, R1I, R1J, R1K, R1L, R1M, R1N, R1O, R1P, R1Q, R1R, R1S, R1T, R1U, R1V, R1W, R1X, R1Y, R1Z, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45.
- Capacitors (C):** C1 through C45, including C1A, C1B, C1C, C1D, C1E, C1F, C1G, C1H, C1I, C1J, C1K, C1L, C1M, C1N, C1O, C1P, C1Q, C1R, C1S, C1T, C1U, C1V, C1W, C1X, C1Y, C1Z, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45.
- Inductors (L):** L1 through L45, including L1A, L1B, L1C, L1D, L1E, L1F, L1G, L1H, L1I, L1J, L1K, L1L, L1M, L1N, L1O, L1P, L1Q, L1R, L1S, L1T, L1U, L1V, L1W, L1X, L1Y, L1Z, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16, L17, L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L31, L32, L33, L34, L35, L36, L37, L38, L39, L40, L41, L42, L43, L44, L45.
- Other Components:** J1 (top center), J304, J305, J306 (top right), J307, J308, J309, J310, J311, J312, J313, J314, J315, J316, J317, J318, J319, J320, J321, J322, J323, J324, J325, J326, J327, J328, J329, J330, J331, J332, J333, J334, J335, J336, J337, J338, J339, J340, J341, J342, J343, J344, J345.

W-1894HB

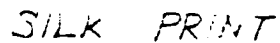
THRO ANGLE SYSTEM DIMENSION



SILK PRINT

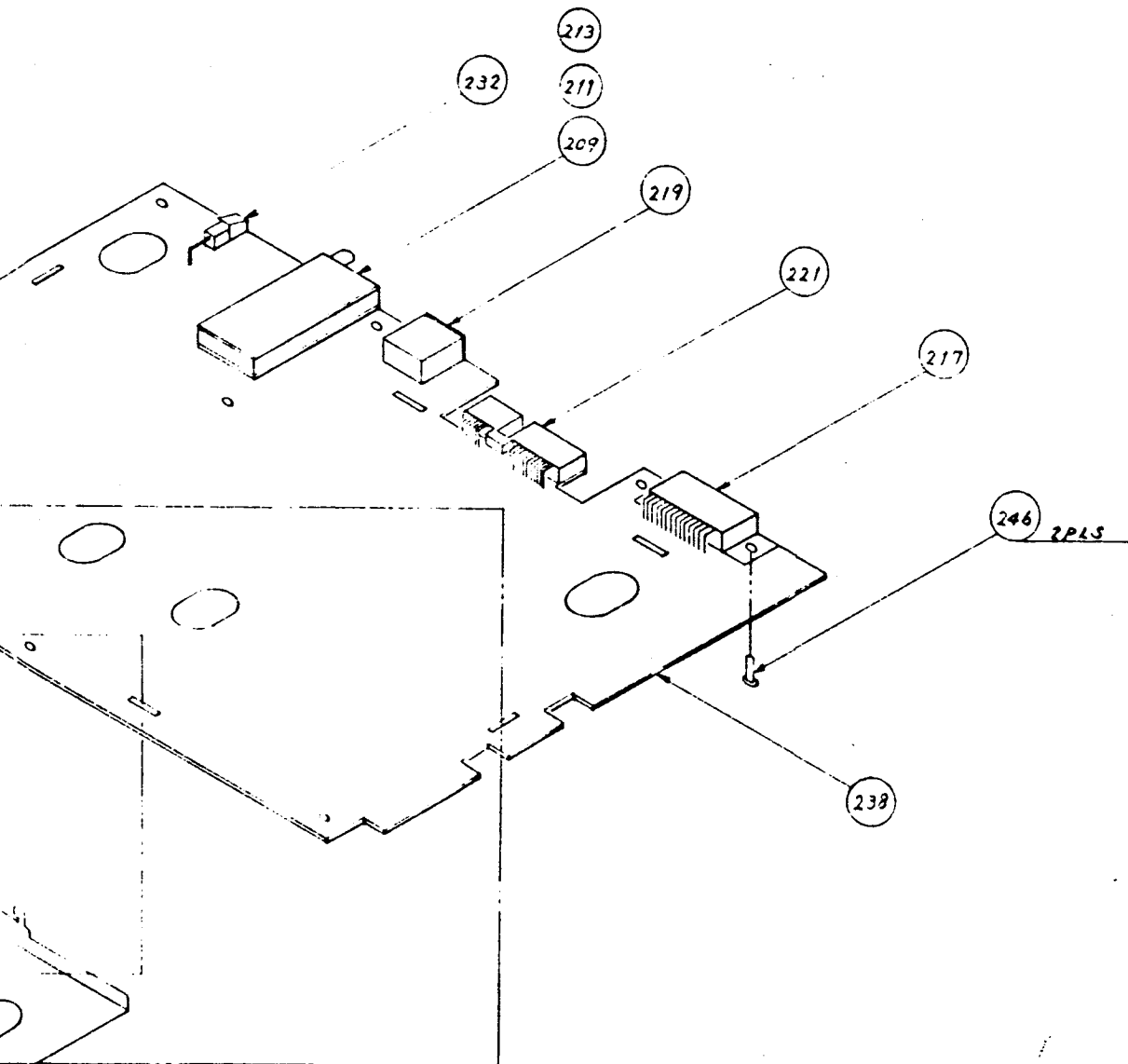
1. SEE P/N C070066 PCB FABRICATION.

NOTES-UNLESS OTHERWISE SPECIFIED:



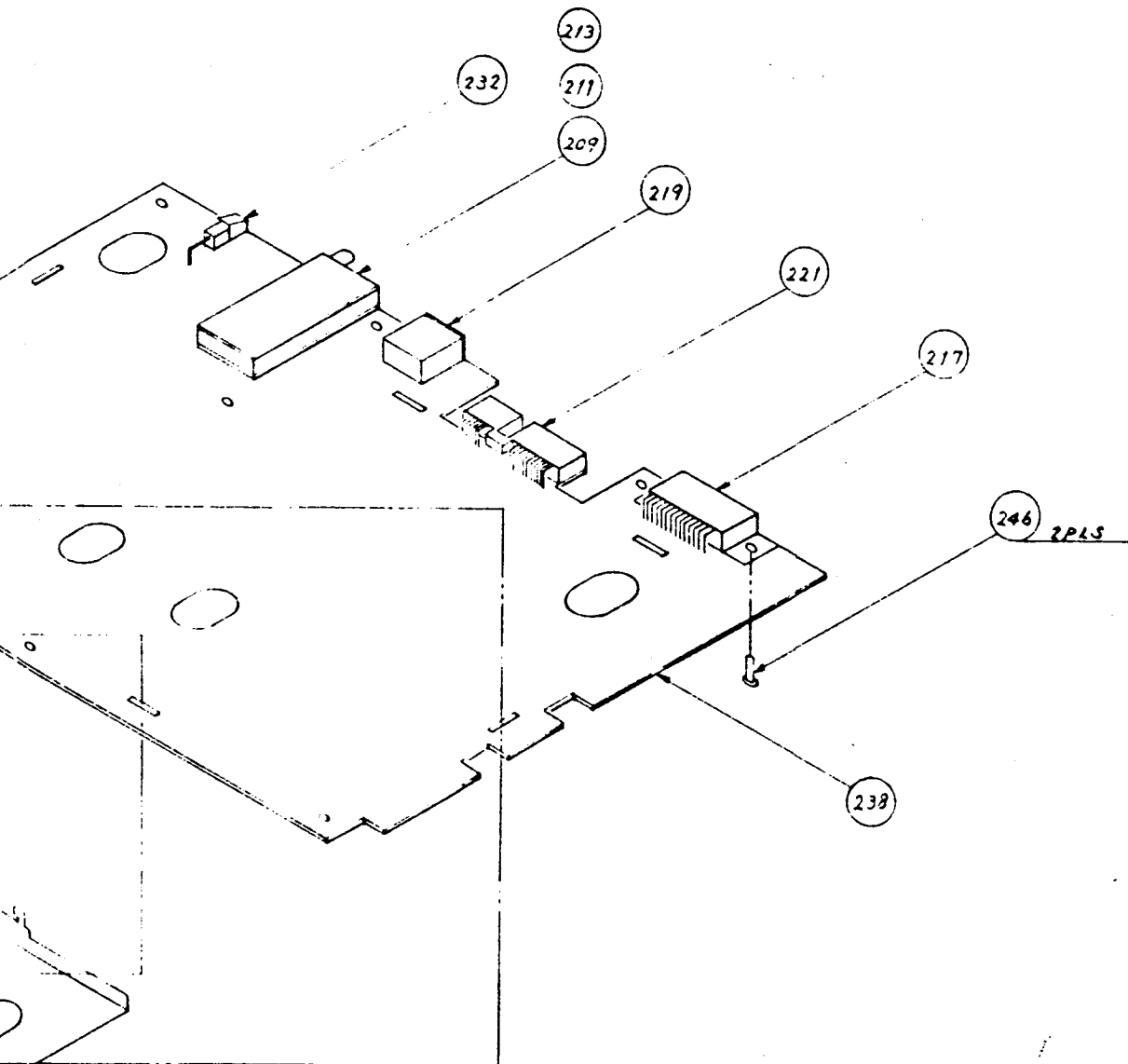
NOTES - UNLESS OTHERWISE SPECIFIED:

REV	REVISIONS DESCRIPTION	DATE	APPROVED
	SEE SHEET 1		



DESIGNED 130AE NEXT ASSY CA070007 MATERIAL FINISH	DRAWN BY H. Yamamura CHECKED DATE 2-7-85 DATE 2-15-85 DATE 2-15-85 DATE 2-15-85 DATE 2-15-85 DATE 2-15-85	ATARI (JAPAN) CORPORATION Toranomon Kiyoshi Building 3F 4-3-10, Toranomon Minato-ku, Tokyo 105 TITLE PCB ASSY SIZE C DRAWING NO. CA070012-AXX SCALE NONE SHEET 7 OF 7	REV A
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REV	REVISIONS DESCRIPTION	DATE	APPROVED
	SEE SHEET 1		



DESIGNED 130AE NEXT ASSY CA070007 MATERIAL FINISH	DRAWN BY H. Yamamura CHECKED DATE 2-7-85 DATE 2-7-85 DATE 2-7-85 DATE 2-7-85 DATE 2-7-85	ATARI (JAPAN) CORPORATION Toranomon Kiyoshi Building 3F 4-3-10, Toranomon Minato-ku, Tokyo 105 TITLE PCB ASSY SIZE C DRAWING NO. CA070012-AXX SCALE NONE SHEET 7 OF 7	REV A
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