

TANK II

Operation · Maintenance · Service Manual



KEE GAMES

A Subsidiary of Atari

ATARI, INC · 14600 Winchester Blvd · Los Gatos, CA 95030 · 408/374-2440 · Telex 357-488



TANK II

ASSEMBLY TITLE / TOP ASSEMBLY - TANK II

P/L 003521

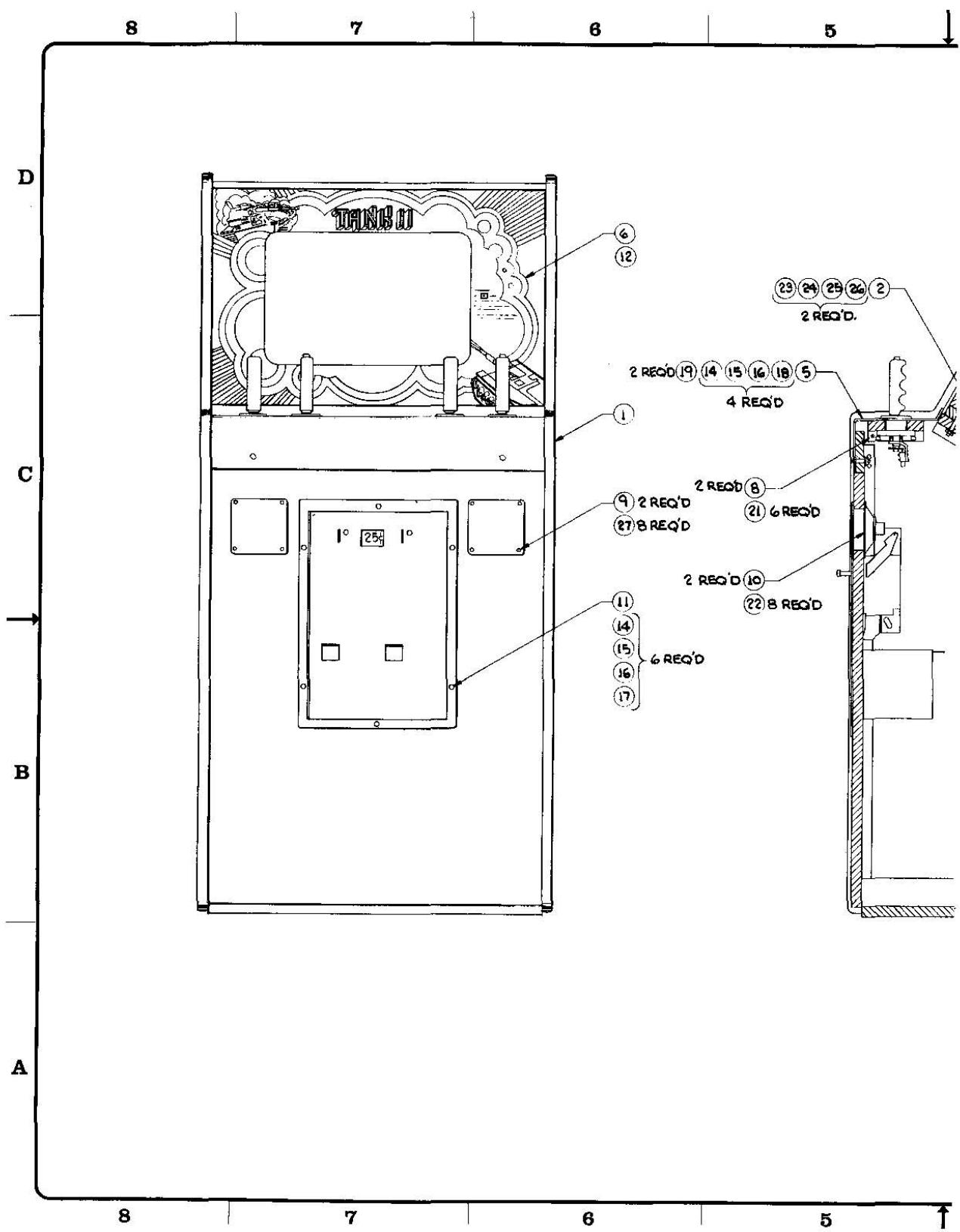
PARTS LIST SPECIFICATION

Page 1 of 1

Drawn		
Checked	M.J. 5/20/75	Mech. Eng.
Proj. Eng.	P.T.S. M-11	Elec. Eng.
		REV. A

Item	Part Number	Qty.	DESCRIPTION
1	A003522	1	Cabinet Assembly
2	A003544	1	TV Mount Board Assembly
3	A003534	1	PC Mount Board Assembly
4	A003538	1	Electronics Tray Assembly
5	A003540	1	Control Panel Assembly
6	003543	1	Plex Screen W/Artwork
7	001573	1	Retainer, Upper Plex.
8	002728	2	Panel Mtg. Brackets
9	000869	2	Speaker, Grill
10	*48-004	2	Speaker, 4"
11	A003637	1	Coin Door Assembly
12	003542	1	"Coin" Decal
13	71-2112	1	Lock, Mech., Barrel Cartridge
14	75-5120M	12	Bolt, Carriage, #10-24 x 1.25" Long
15	75-0103	10	Washer, Flat, #10
16	75-040	12	Washer, Split-Lock, #10
17	75-9113	6	Nut, Hex, #10-24
18	75-931	6	Nut, Wing, #10-24
19	75-0355	2	Washer, Flat, $\frac{1}{4}$ " Wide Pattern
20	72-6620	4	Screw, SM, Pan Hd., Phil. #6 x 1.25" Lg.
21	72-6812	6	Screw, SM, Pan Hd., Phil. #8 x .75" Lg.
22	72-6608	8	Screw, SM, Pan Hd., Phil. #8 x .50 Lg.
23	75-5544	2	Bolt, Carriage, #4-20 x 2.75" Lg.
24	75-015S	2	Washer, Flat, $\frac{1}{4}$
25	75-045	2	Washer, Split Lock, $\frac{1}{4}$
26	75-935	2	Nut, Wing, $\frac{1}{4}$ -20
27	73-77004	8	Pop Rivet, Alum. 3/16" DIA. x .68 Lg.
28	003752	1	Bezel, Cardboard

* This speaker may be replaced by any speaker previously used on TANK.



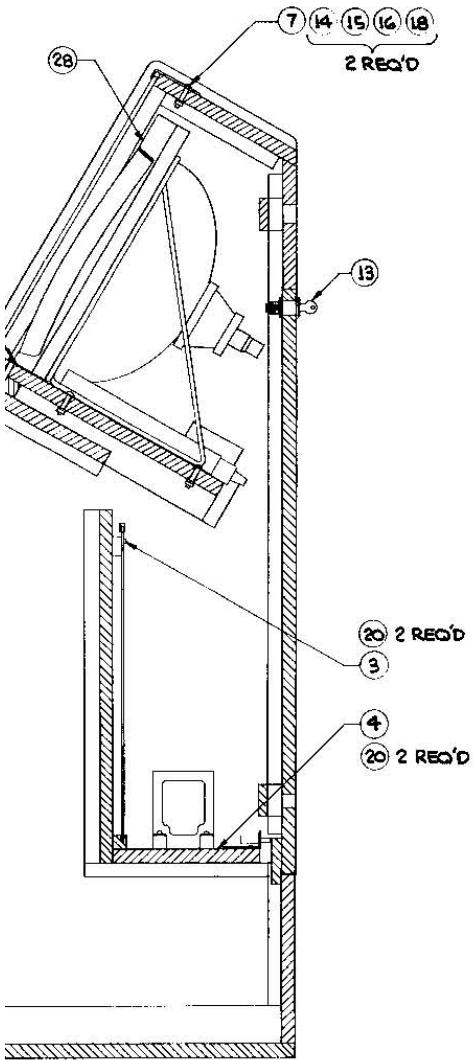
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REVISIONS				
SYM	DESCRIPTION	INITIALS and DATE		
		DRTG	CHECK	ENGR
A	PRODUCTION REL	5-21	EAT	PLT



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1253521

A

INTERPRET THIS DRAWING PER (ASME) T1-5		DRAWN BY PETE	DATE 5-21-75	 ATARI	ATARI INCORPORATED 14800 Winchester Boulevard Los Gatos, California 95030
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DIMENSIONS ARE ± .005		CHECKED			
FRACTIONS: $\frac{1}{16}$ = .0625 ANGLES: $\pm 1^\circ$ = ± 0.0175 SURFACE FINISH \checkmark = ± 0.010		DESIGN ENGINEER P. TAKAICHI	TITLE TOP ASSEMBLY		
MATERIALS		PROJECT ENGINEER	DOCUMENT CONTROL <i>1992</i>		
SEE P/L 003521		APPROVED <i>Frank T. Taylor</i>	SPEC. D	DRAWING NO. A003521	REV. A
			SCALE	SHIFT	DR.

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ASSEMBLY TITLE // JOYSTICK ASSY (UP,DOWN & FIRE) P/L 002303-01

PARTS LIST SPECIFICATION

Page 1 of 1

Drawn

Checked
Proj. Eng.

Mech. Eng.

Elec. Eng

REV.
E

Rev.	Description	Date	Apprv.	Rev.	Description	Date	Apprv.
A	PROD REL	4-3-75	✓				
B	Rev per ECN 1285	4-3-75	✓				
C	Rev per ECN 1333	4/21/75	✓				
D	Rev per ECN 1470	6/6/75	✓				
E	Rev per ECN 1503		✓				

Item	Part Number	Qty.	DESCRIPTION
1	002299	1	Button
2			
3	002302	1	Spring Return
4			
5	002298	1	Rod
6	002294	1	Bushing
7	002296	2	Washer, Return
8	002293	1	Hub
9	002297	1	Spacer Ring
10	003207	1	Switch Plate 11
11	002301	1	Bracket, Switch
12	002300	1	Actuator
13	A003583-01	1	Handle Assy
14	75-2412S	2	Screw, Mach, Rd Hd, Phil #4-40x3/4
15	75-044	2	Washer, Split Lock, #4
16	75-914S	2	Nut, Hex #4-40
17	75-991202	1	Nut, Hex $\frac{3}{4}$ -28
18	75-0198	1	Washer, Flat, 5/16
19	75-06003	2	Washer, Belleville Spring
20	72-6410	4	Screw, Sheet Metal, Phil. #4 x 5/8
21	72-6412	4	Screw, Sheet Metal, Phil. #4 x 3/4
22	**65-081A	3	Micro Switch
23			
24	75-912S	2	Nut, Hex, #2-56

Notes:

* Optional Handle Grip See DWG No. 003092

**** Acceptable Substitutes**

65-091A, 65-101A, 65-111A.



ASSEMBLY TITLE / JOYSTICK ASSY (DUMMY BUTTON) P/L 002303-02

PARTS LIST SPECIFICATION

Page 1 of 1

Drawn				
Checked	M.J. 5/20/75	Mech. Eng.	B.L.R.	
Proj. Eng.		Elec. Eng		REV.
				E

Rev.	Description	Date	Apprv.	Rev.	Description	Date	Apprv.
B	Prod Rel/ECN 1285	4-3-75	<i>[initials]</i>				
C	Rev per ECN 1333	4/21/75	<i>[initials]</i>				
D	Rev per ECN 1470	6/6/75	<i>[initials]</i>				
E	Rev per ECN 1503		<i>[initials]</i>				

Item	Part Number	Qty.	DESCRIPTION
1		1	Bushing
2	002294	2	Washer, Return
3	002296	1	Hub
4	002293	1	Spacer Ring
5	002297	1	Switch Plate 11
6	003207	1	Handle Assy
7	A003583-02	1	Nut, Hex, $\frac{1}{4}$ -28
8	75-991202	2	Washer, Flat, 5/16
9	75-019S	4	Screw, Sheet Metal, Phil. #4 x 5/8
10	72-6410	4	Screw, Sheet Metal, Phil. #4 x 3/4
11	72-6412	2	Switch
12	**65-081A		

Notes:

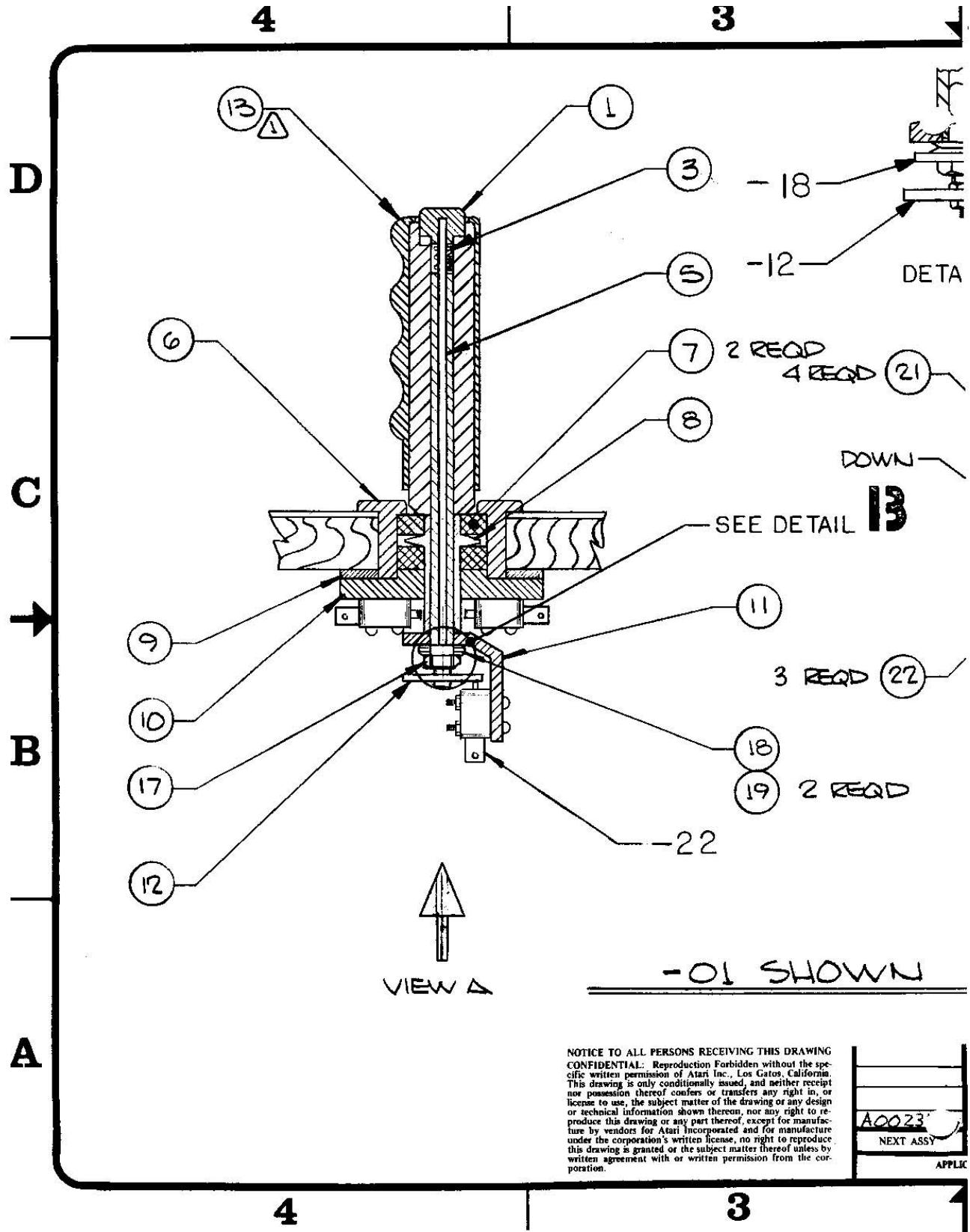
* Optional Handle Grip See DWG No. 003082

** Acceptable Substitutes

65-091A

65-110A

65-111A

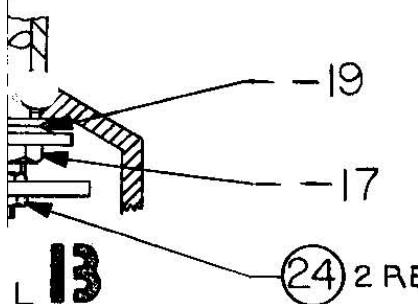


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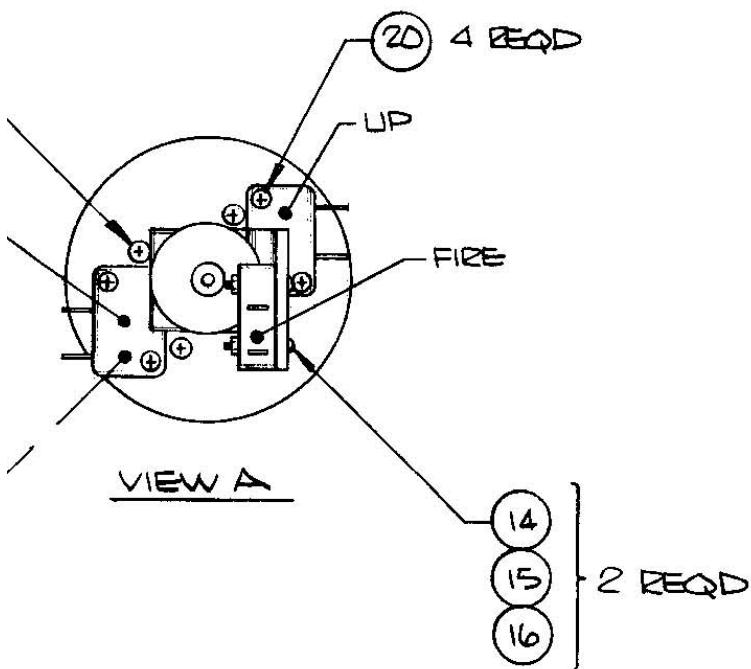
A0023
NEXT ASSY
APPLIC

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REVISIONS				
SYM	DESCRIPTION	INITIALS and DATE		
		DRFTG.	CHECK	ENGRG
A	PROD REL	1-14-75	D	1/18
B	REV PER ECU 1285	4-3-75	D	WT
C	REV. PER ECN.1333SH.1	TEW	4/17/75	Z.E.
D	REV. PER ECN 1470	6-6-75	ZAK	WS
E	REV PER ECU 1503	6-19-75	ZK	DC



NOTES:

⚠ HANDLE ASSY IS NOT TO BE TIGHT AFTER TOTAL ASSY. HANDLE ASSY SHOULD ROTATE.

INTERPRET THIS DRAWING PER USASI Y14.5	DRAWN BY <i>Look</i> DATE 1-14-75	ATARI INCORPORATED 14600 Winchester Boulevard Los Gatos, California 95030		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON:	CHECKED <i>Look</i>	TITLE ASSY, JOYSTICK (UP, DOWN, FIRE)		
FRACTIONS = $\pm 1/16$ x = $\pm .1$ ANGLES = $\pm 1^\circ$ $.xx$ = $\pm .03$ SURFACE FINISH \checkmark $.xxx$ = $\pm .010$	DESIGN ENGINEER <i>Look</i>	APPROVED <i>J. Foster</i>		
MATERIAL: SEE PL 002303-01	PROJECT ENGINEER <i>Look</i>	DOCUMENT CONTROL <i>M.J.</i>	SIZE: B	DRAWING NO. A002303-01 REV E
W K USED ON ATION	SCALE	SHEET 1 OF		

2

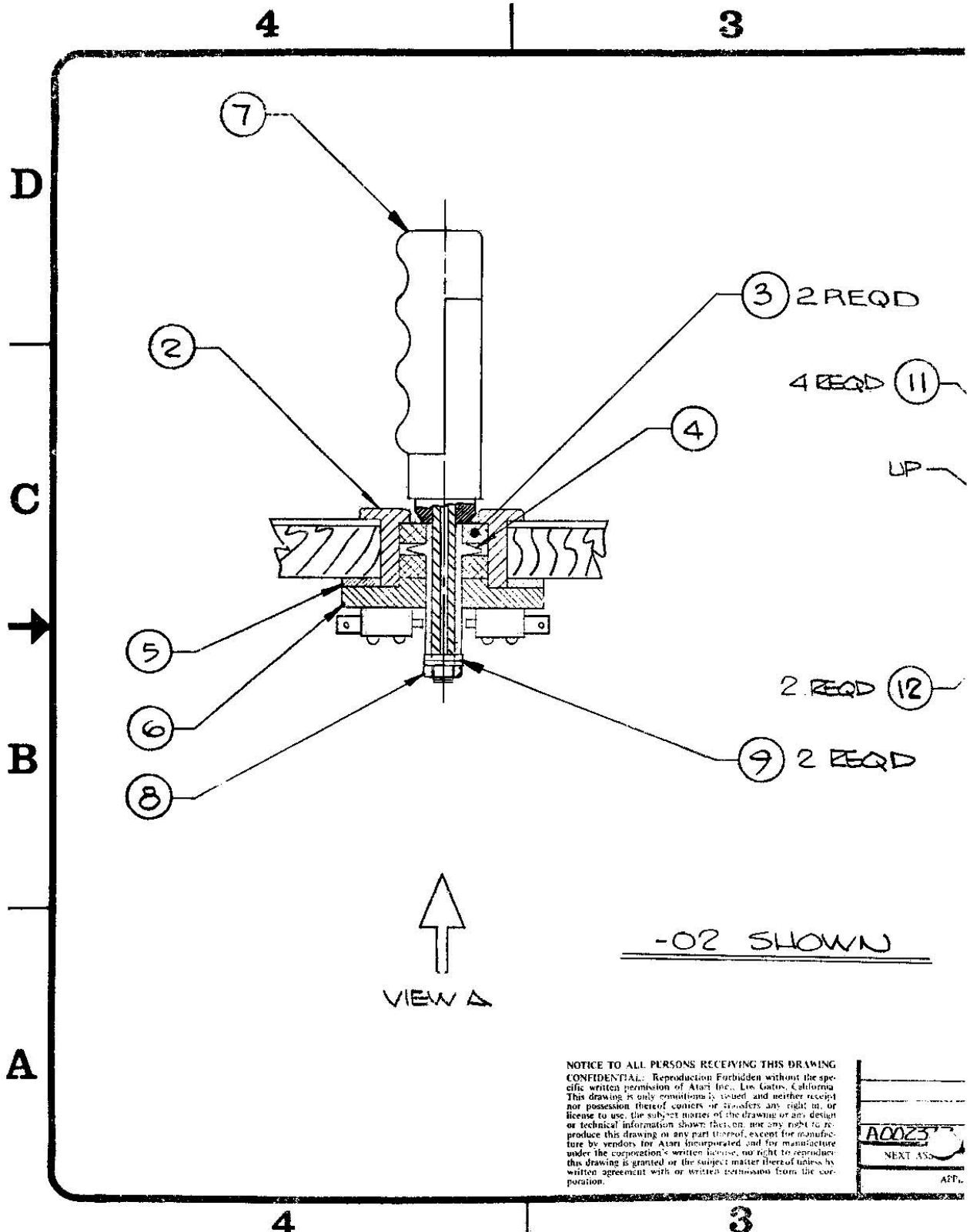
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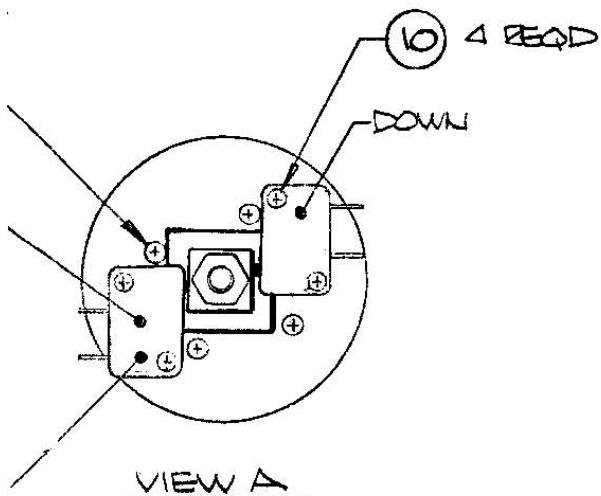


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REVISIONS

SYM	DESCRIPTION	INITIALS and DATE		
		DRFIG.	CHECK	ENG 1
B	SEE SUT 1	-	-	-
C	REV. PER ECN.1333 SH.2	TEW.	4/21/75	ZL
D	REV. PER ECN 1470	66-75	ZK	WS
E	REV PER ECN 1503	6-19-75	ZL	DC



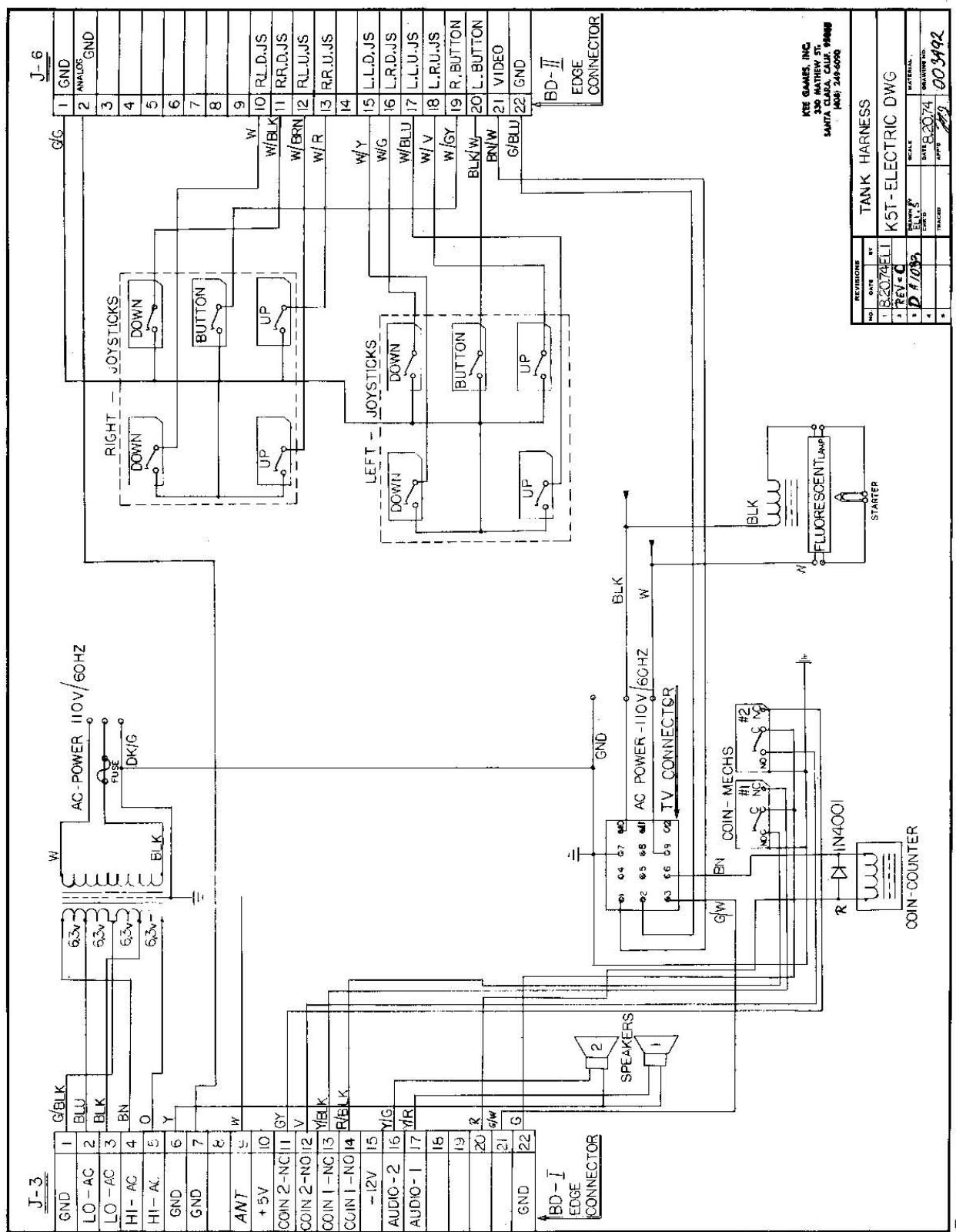
NOTES:

- ⚠ HANDLE ASSY IS NOT TO BE TIGHT AFTER TOTAL ASSY. HANDLE ASSY SHOULD ROTATE.

INTERPRET THIS DRAWING PER USASI Y14.5		DRAWN BY <i>LLC</i>	DATE 1-14-75	ATARI INCORPORATED 14600 Winchester Boulevard Los Gatos, California 95030	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: FRACTIONS $\pm \frac{1}{16}$ $x = \pm .1$ ANGLES $\pm 1^\circ$ $xx = \pm .03$ SURFACE FINISH \checkmark $xxx = \pm .010$		CHECKED <i>[Signature]</i>		TITLE ASSY, JOYSTICK (DUMMY BUTTON)	
MATERIAL: SEE PL 0002303-02	DOCUMENT CONTROL <i>MJ</i>	APPROVED <i>[Signature]</i>	SIZE B	DRAWING NO. 0002303-02	SCALE E
ANK USED ON LOCATION				SHEET 2 OF	

2

1





ASSEMBLY TITLE / ELECTRONICS TRAY ASSEMBLY				P/L 003538
PARTS LIST SPECIFICATION				Page 1 of 1
Drawn				
Checked <i>27.9.11/75</i>				Mech. Eng. <i>Bernard J. Hayes</i>
Proj. Eng.				Elec. Eng. <i>El. Shand</i>
				REV. B
Rev.	Description	Date	Apprv.	Rev.
A	PROD REL	5-1-75	<i>✓</i>	
B	Rev per ECN 1616	9-11-75	<i>✓</i>	
Item	Part Number	Qty.	DESCRIPTION	
1	003539	1	Electronics Tray	
2	A003492	1	Main Harness Assy. (K5-T)	
3	A003560-01	1	Transformer Assy.	
4	A003460	1	AC Power Harness Assy.	
5	A004244	1	8" Power Cord Assy	
6	46-202202	1	Fuse	
7	90-3001	1	Filter, Power Line	
8	68-001	1	A.C. Power Interlock Switch	
9	000268	1	Bracket, Switch MTG.	
10	78-25002	2	Screw Down, Tie Wrap	
11	72-6608	8	Screw, SM, Pan Hd, Phil #6 x $\frac{1}{2}$ " Lg.	
12	72-6824	4	Screw, SM, Pan Hd, Phil #8 x $1\frac{1}{2}$ " Lg.	

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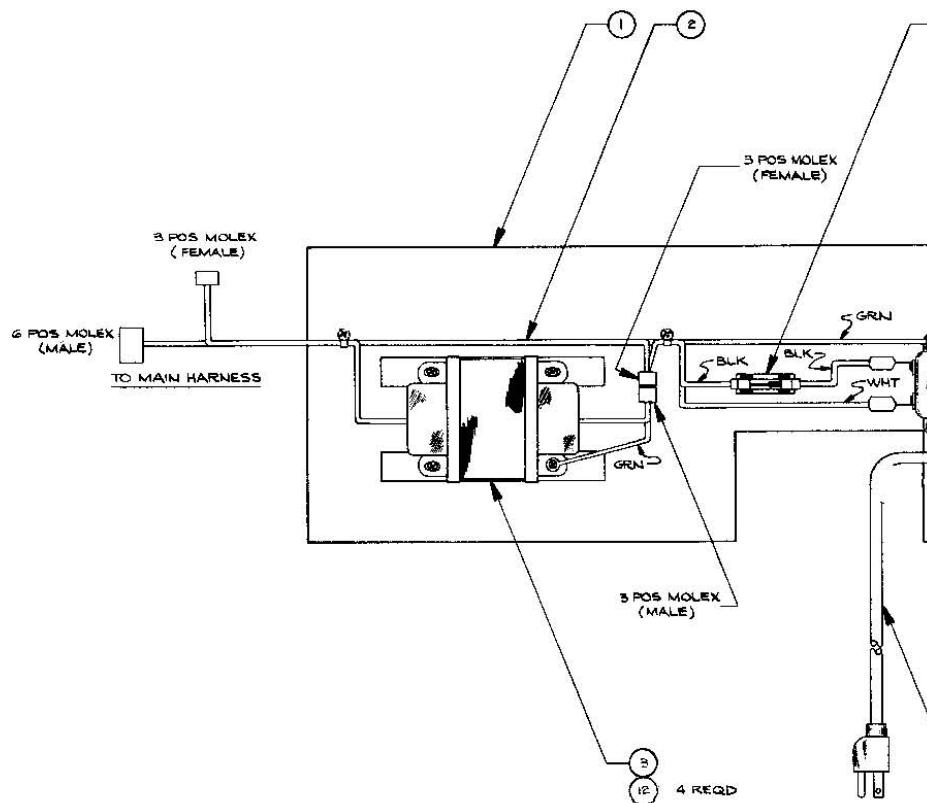
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NOTES :

1. USE ITEM II , S.M., PAN HD, PHIL # 6 X 1/2 LG WITH

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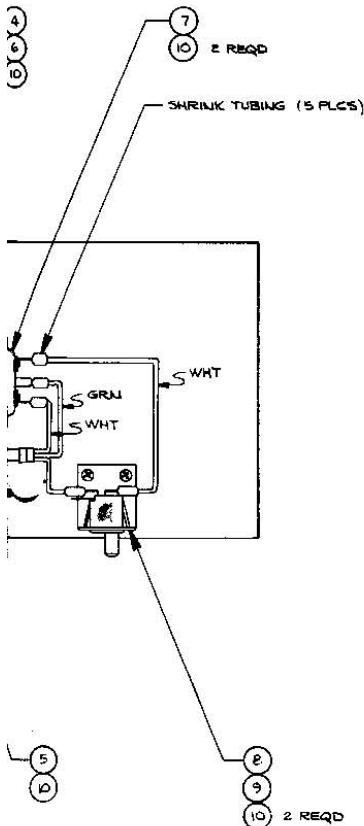
REVIEWS

SYM	DESCRIPTION	INITIALS and DATE		
		DRFTG	CHECK	ENGRC
B	REVISED PER ECHN 1616	Aug 20, 75	<i>John P.</i>	

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B

DRAWING NO.
SERIAL #
REV.

ARNESS TIE DOWNS

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ACCB521	TANK II
NEXT ASSY	USED ON
APPLICATION	

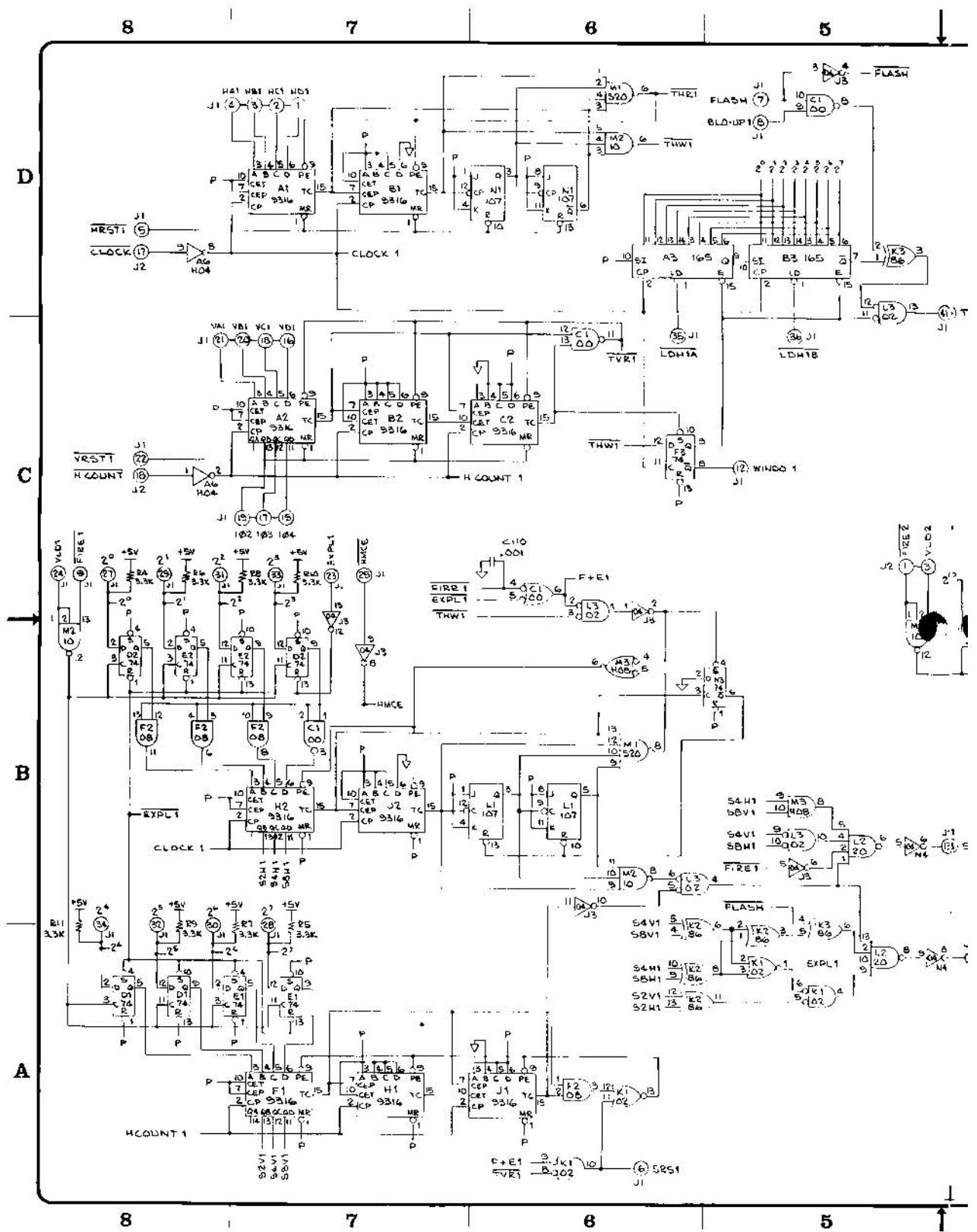
INTERPRET THIS DRAWING PER UGAR Y14.5		DRAWN BY PASTORELLE	DATE AUG 20, 75
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ON:		CHECKED	
FRACTIONS = 4/16 x = .1 ANGLES = 45° xx = .03 SURFACE FINISH ✓ xxx = +.010		DESIGN ENGINEER <i>Bob L. Brown</i>	PROJECT ENGINEER
MATERIAL SEE P/L 0003588		DOCUMENT CONTROL	
APPROVED <i>J. Shochel</i>		SIZE D	DRAWING NO. A 0003538
		REV B	
SCALE 1:2		SHEET 1	OF 1

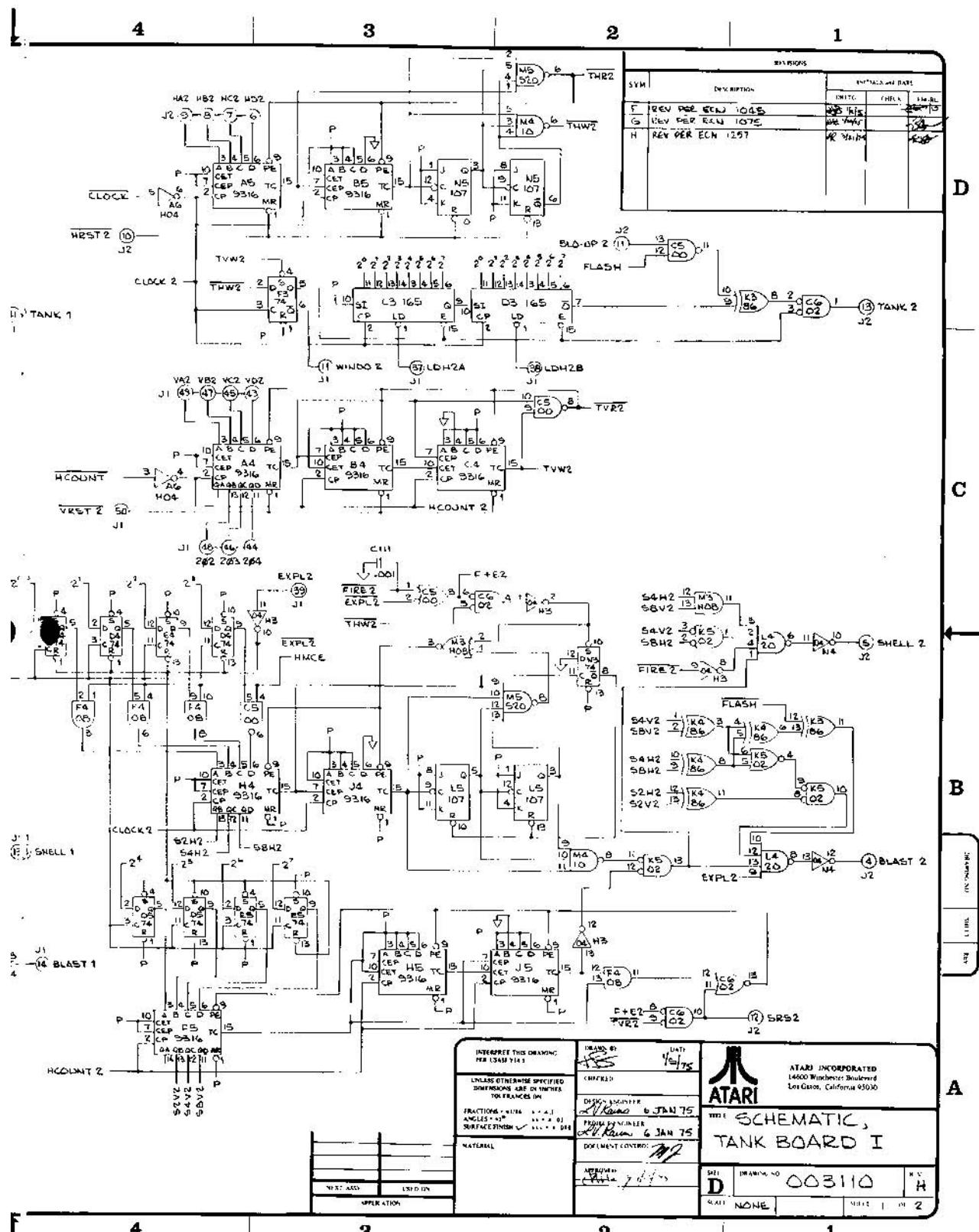
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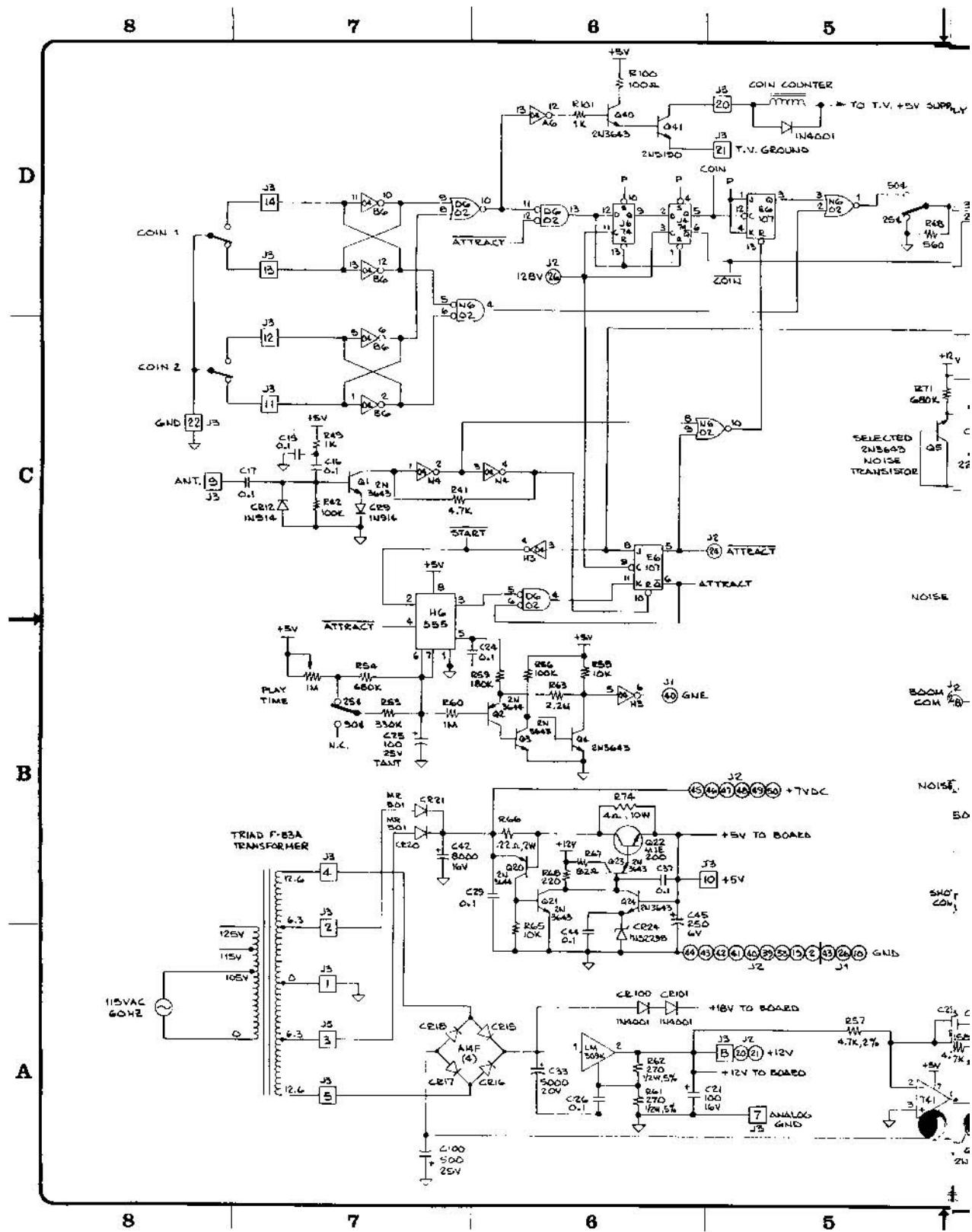
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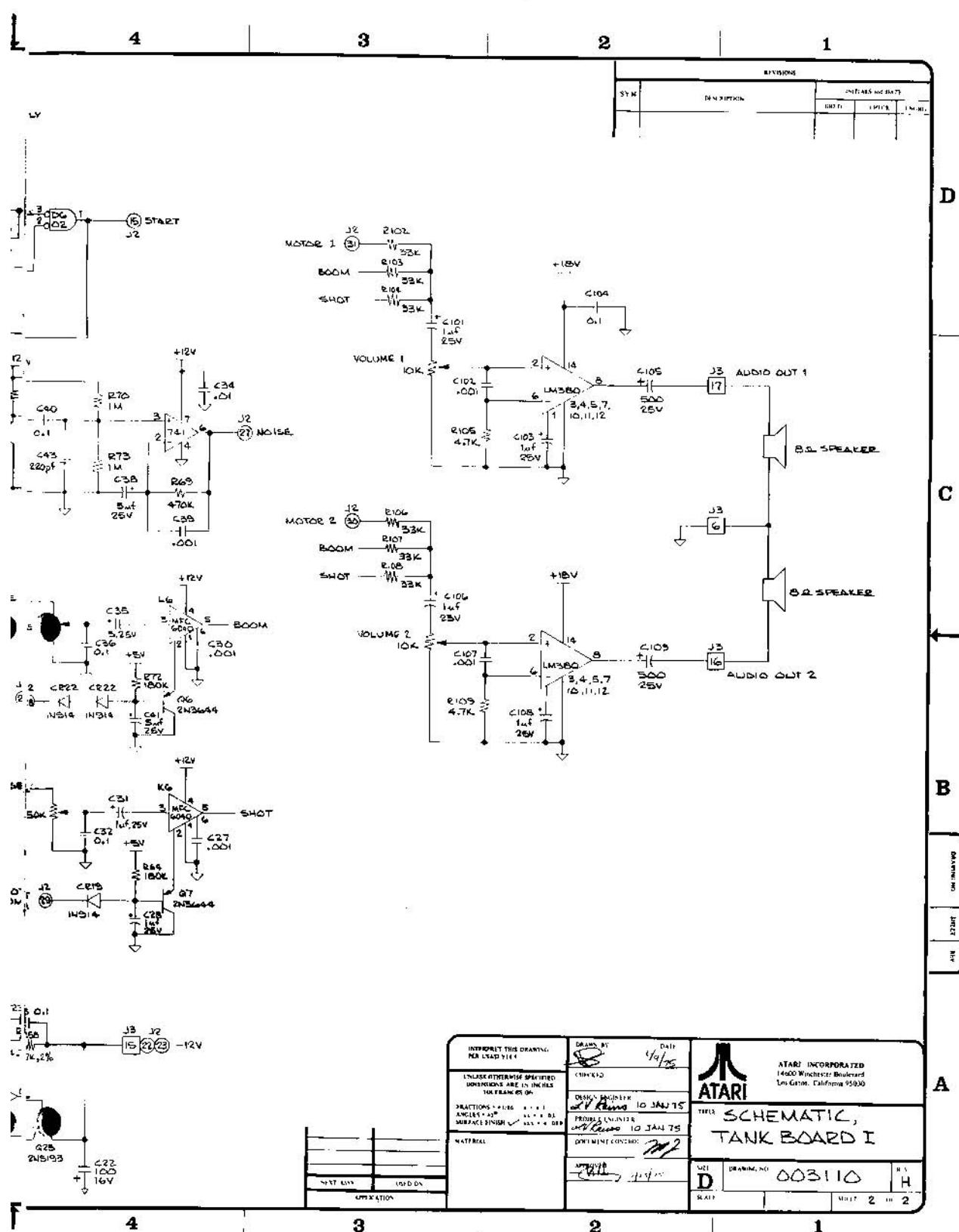
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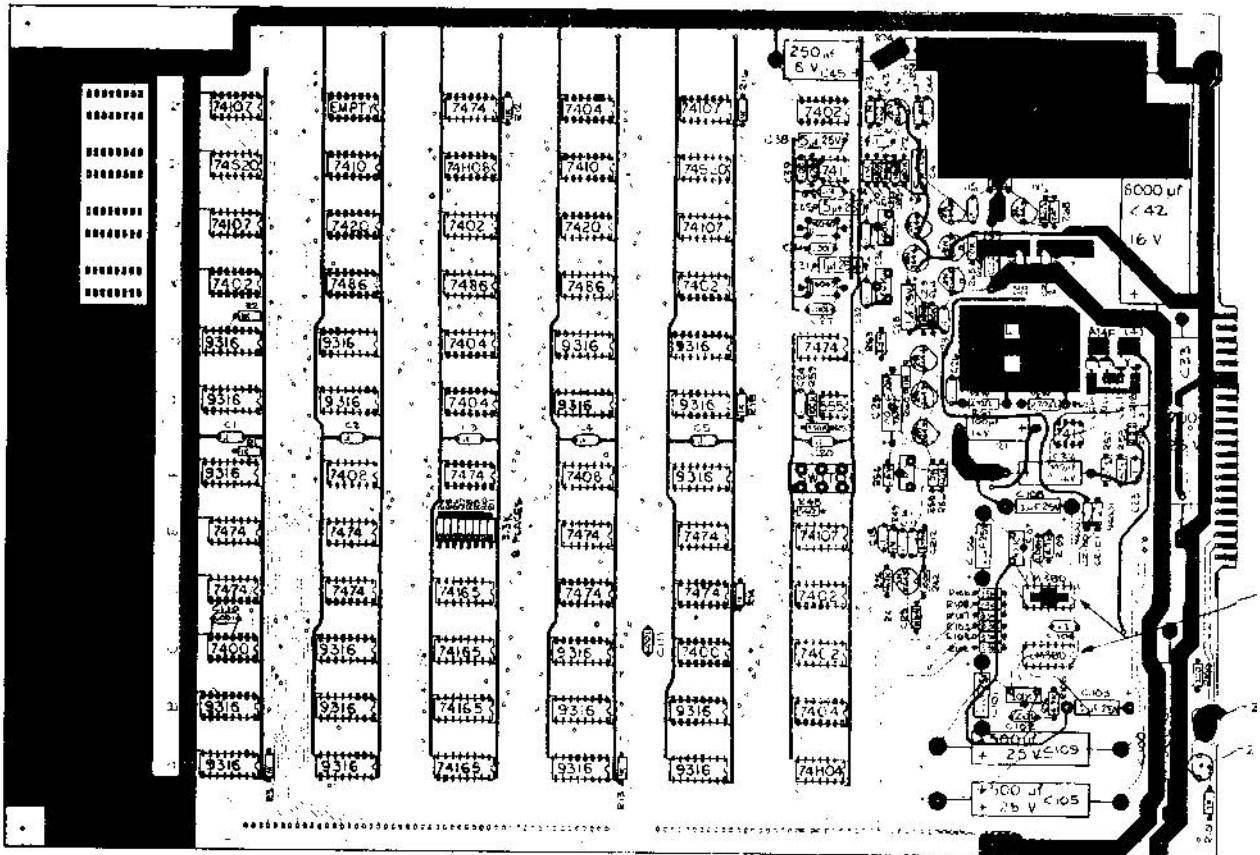
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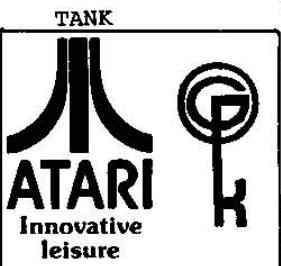












ASSEMBLY TITLE		TANK - BOARD 1		P/L003110			
PARTS LIST SPECIFICATION				Page 1 of 2			
Drawn							
Checked <i>M.J. A-15-75</i>		Mech. Eng.					
Proj. Eng. <i>L.Harms 3 JAN 75</i>		Elec. Eng. <i>L.Harms 3 JAN 75</i>		REV. H			
		<i>SAC 113175</i>					
Rev.	Description	Date	Apprv.	Rev.	Description	Date	Apprv.
D	PROD REC	11-22	<i>JK</i>				
D	Incorporates ECN 74-120	11-26	<i>JK</i>				
D	Incorporates ECN 74-124	12-14	<i>JK</i>				
F	Volt per ECN 1045	1/13/75	<i>JK</i>				
G	Rev per ECN 1075	1/20/75	<i>JK</i>				
H	Rev per ECN 1257	3/21/75	<i>JK</i>				
Item	Part Number	Qty.	DESCRIPTION				
1	37-7400	2	Integrated Circuit, 7400				
2	37-7402	6	"	"	7402		
3	37-7404	4	"	"	7404		
4	37-74H04	1	"	"	74H04		
5	37-7408	2	"	"	7408		
6	37-74H08	1	"	"	74H08		
7	37-7410	2	"	"	7410		
8	37-7420	2	"	"	7420		
9	37-74S20	2	"	"	74S20		
10	37-7474	11	"	"	7474		
11	37-7486	3	"	"	7486		
12	37-74107	5	"	"	74107		
13	37-74165	4	"	"	74165		
14	37-9316	20	"	"	9316		
15	37-555	1	"	"	555		
16	37-741	2	"	"	741		
17	37-LM380	2	"	"	LM380		
18	37-MFC6040	2	"	"	MFC 6040		
19	37-LM309	1	IM 309 K, Voltage Regulator				
20	10-5101	1	Resistor, Carbon, 5%, $\frac{1}{4}$ Watt, 100 ohm				
21	10-5102	10	"	"	"	1K	ohm
22	10-5103	2	"	"	"	10K	ohm
23	10-5104	3	"	"	"	100K	ohm
24	10-5105	3	"	"	"	1Meg	ohm
25	10-5221	1	"	"	"	220	ohm
26	10-5225	1	"	"	"	2.2M	ohm
27	10-5333	6	"	"	"	33K	ohm
28	10-5472	3	"	"	"	4.7K	ohm
29							
30	10-5474	1	"	"	"	470K	ohm
31	10-5561	1	"	"	"	560	ohm
32							
33							
34	10-5684	2	"	"	"	680K	ohm
35	10-5820	1	"	"	"	82	ohm
36							
37	10-5334	1	"	"	"	330K	ohm
38	14-2472	2	"	"	2%	4.7K	ohm
39	11-5271	2	Resistor, Carbon, 5%, $\frac{1}{2}$ Watt, 270 ohm				

ASSEMBLY TITLE TANK - BOARD 1

P/L 003110

Page 2 of 2

Item	Part Number	Qty.	DESCRIPTION	Rev	H
40					
41	13-5P22	1	Resistor, Carbon, 5%, $\frac{1}{2}$ Watt, .22 ohm		
42	19-808W4P0	1	Resistor, Wirewound, 20%, 10 Watt, 4 ohm		
43	31-1N914	5	Diodes, 1N 914		
44	31-1N4001	2	Diodes, 1N 4001		
45	32-1N5229	1	Diodes, Zener, 1N 5229B, 4.3V, 5%, Motorola		
46	31-MR501	2	Diodes, MR 501		
47	34-2N3643	8	Transistor, 2N 3643		
48	33-2N3644	4	Transistor, 2N 3644		
49	34-2N5190	1	Transistor, 2N 5190		
50	34-2N5193	1	Transistor, 2N 5193		
51	34-MJE200	1	Transistor, MJE 200		
52	19-311103	2	Trimpot, 50K		
53	19-311103	2	Trimpot, 10K		
54	19-311105	1	Trimpot, 1 Meg		
55	27-120104	19	Capacitor, Ceramic Disc Bypass, .1 uf		
56	27-101102	7	" " " .001 uf		
57	24-250105	6	" Electrolytic, 1 uf, 25V		
58	24-250505	3	" " 5 uf, 25V		
59	24-160107	2	" " 100 uf, 16V		
60	24-060257	1	" " 250 uf, 6V		
61	24-250478	1	" " 4700 uf, 25V		
62	24-200808	1	" " 8000 uf, 16V		
63	28-101221	1	" Dipped Mica, 220 pf		
64	29-001	1	" Tantalum, 100 uf, 10V		
65	69-001	1	Switch, DPDT		
66	78-06002	1	Heatsink, Thermalloy #6111B-66		
67	78-06003	2	HEATSINK, THERMALLOY #6011B		
68	72-1610S	2	Screw, Machine, , Pan Hd., Phil., 6-32 x 5/8"		
69	75-056	2	Washer, Lock, Internal Star, #6		
70	75-916S	2	Nut, Machine, Hex, 6-32		
71	72-1412S	2	Screw, Machine, , Pan Hd., Phil., 4-40 x 3/4"		
72	75-044	2	Washer, Split Lock, #4		
73	75-914S	2	Nut, Hex, 4-40		
74	003111	1	Printed Circuit Board, #90124		
75	10-5184	2	Resistor, Carbon, 5%, $\frac{1}{4}$ W, 180K ohm		
76	27-101103	1	Capacitor, Ceramic Disc, .01 uf		
77	24-250507	3	Capacitor, Electrolytic, 500uf, 25V		
78	10-5332	8	RESISTOR CARBON, 5%, $\frac{1}{4}$ W, 3.3 K OHM		
79	31-A14F	4	Diode, G.E. Type A14F		

TANK



ASSEMBLY TITLE

TANK - BOARD 2

P/L 003112

PARTS LIST SPECIFICATION

Page 1 of 2

Drawn

Checked *M.J. 8/25/75* *✓* Mech. Eng.Proj. Eng. *L.V. Raw* 3 JAN 75Elec. Eng. *L.V. Raw* 3 JAN 75

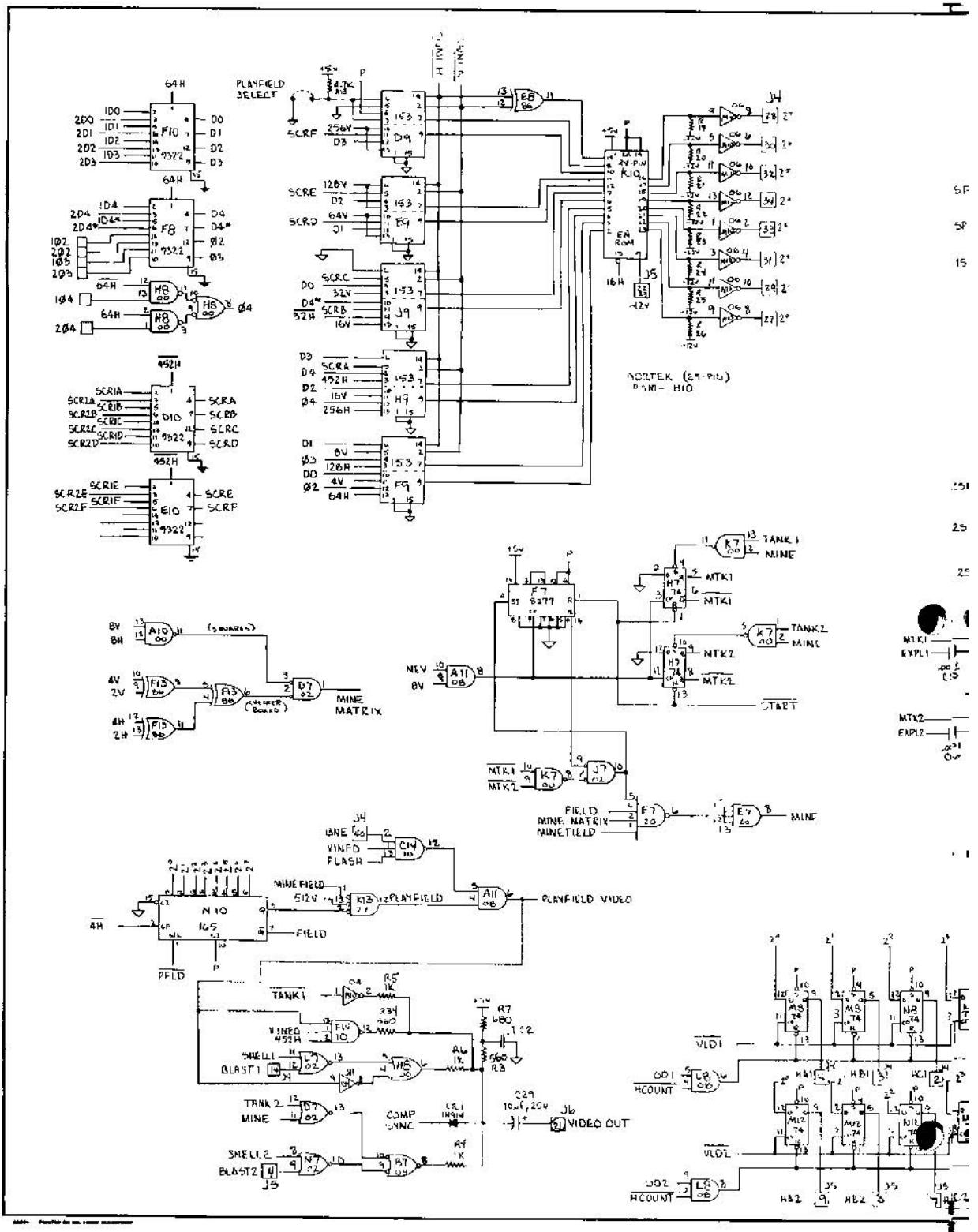
REV.

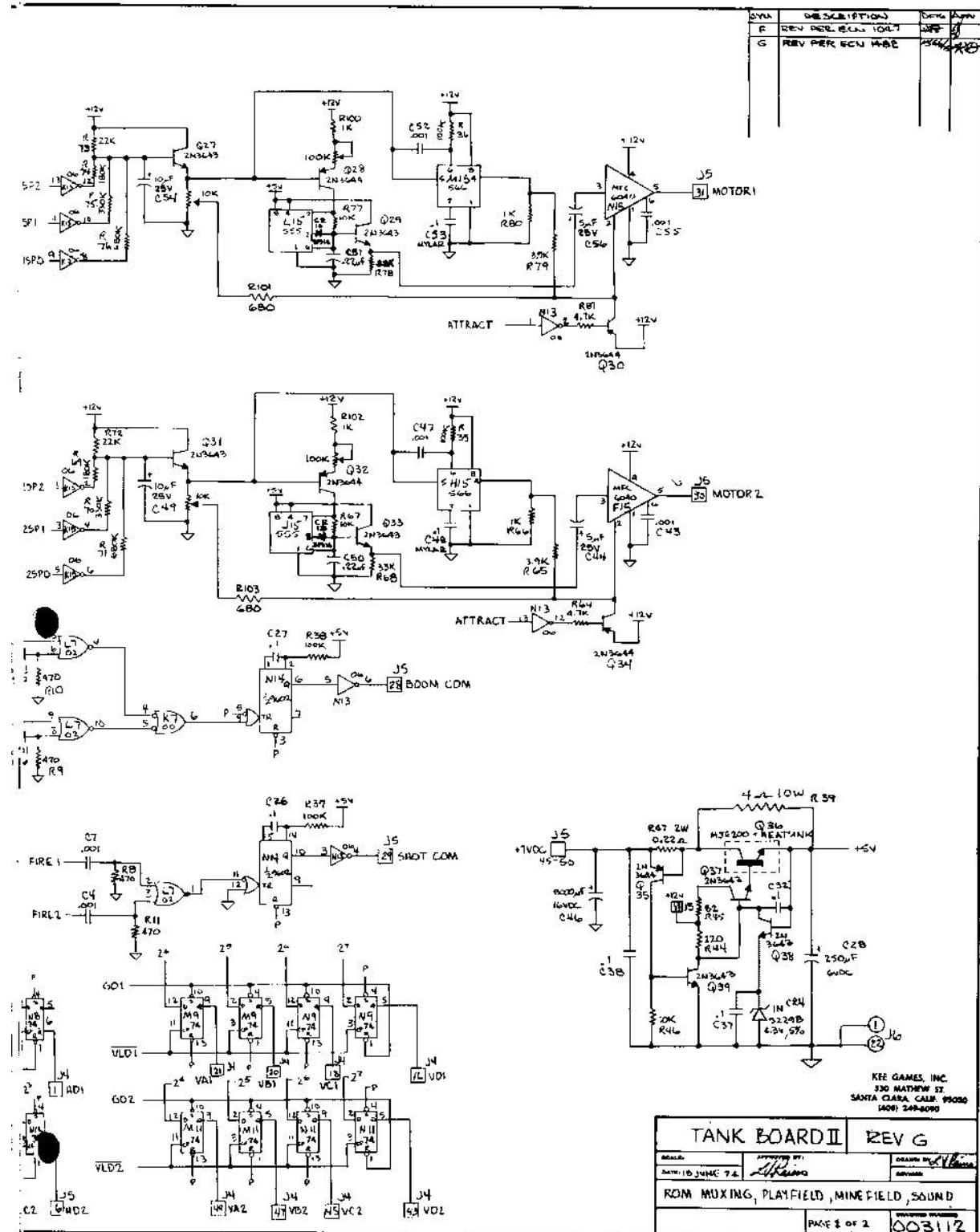
G

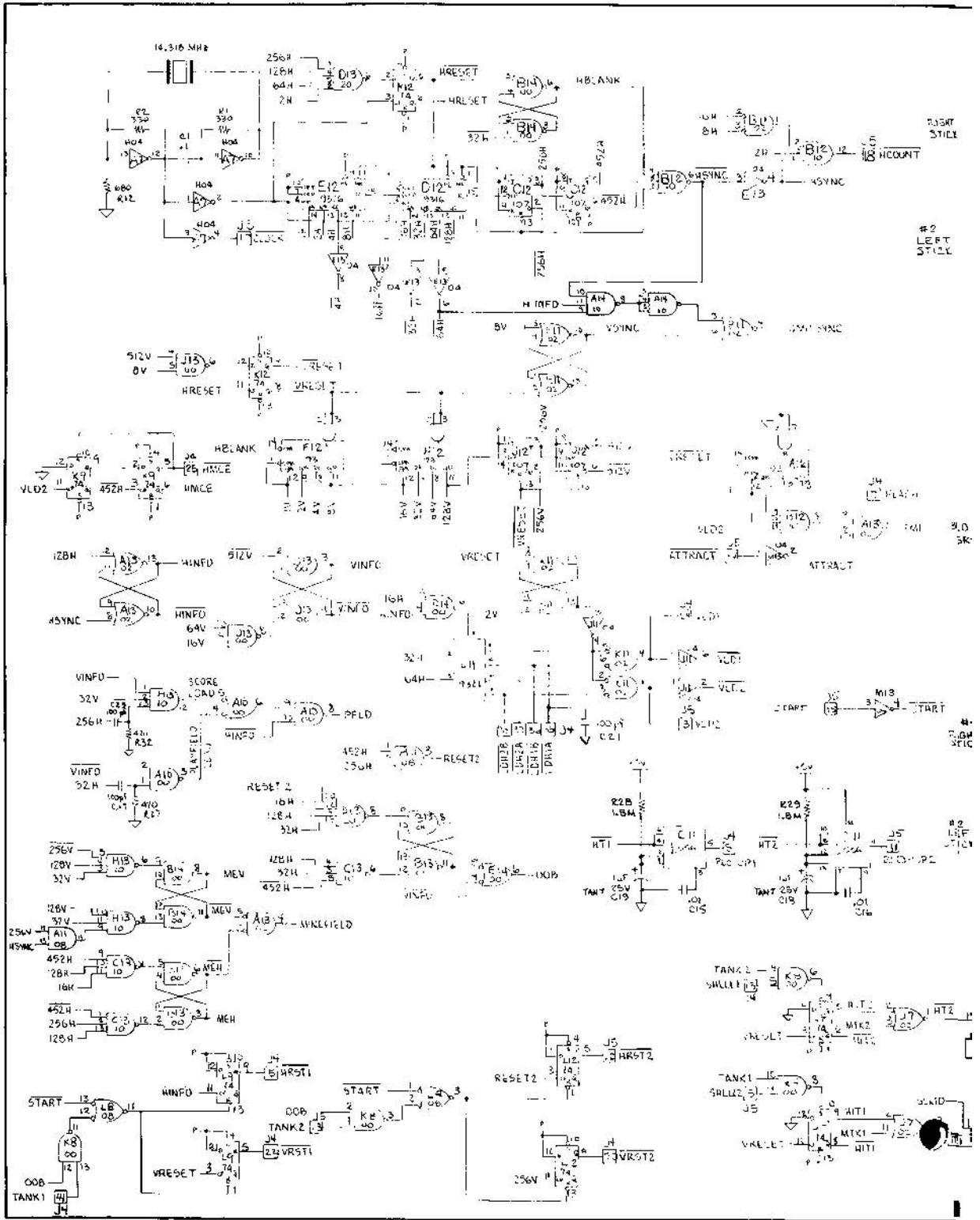
*✓**✓**✓*

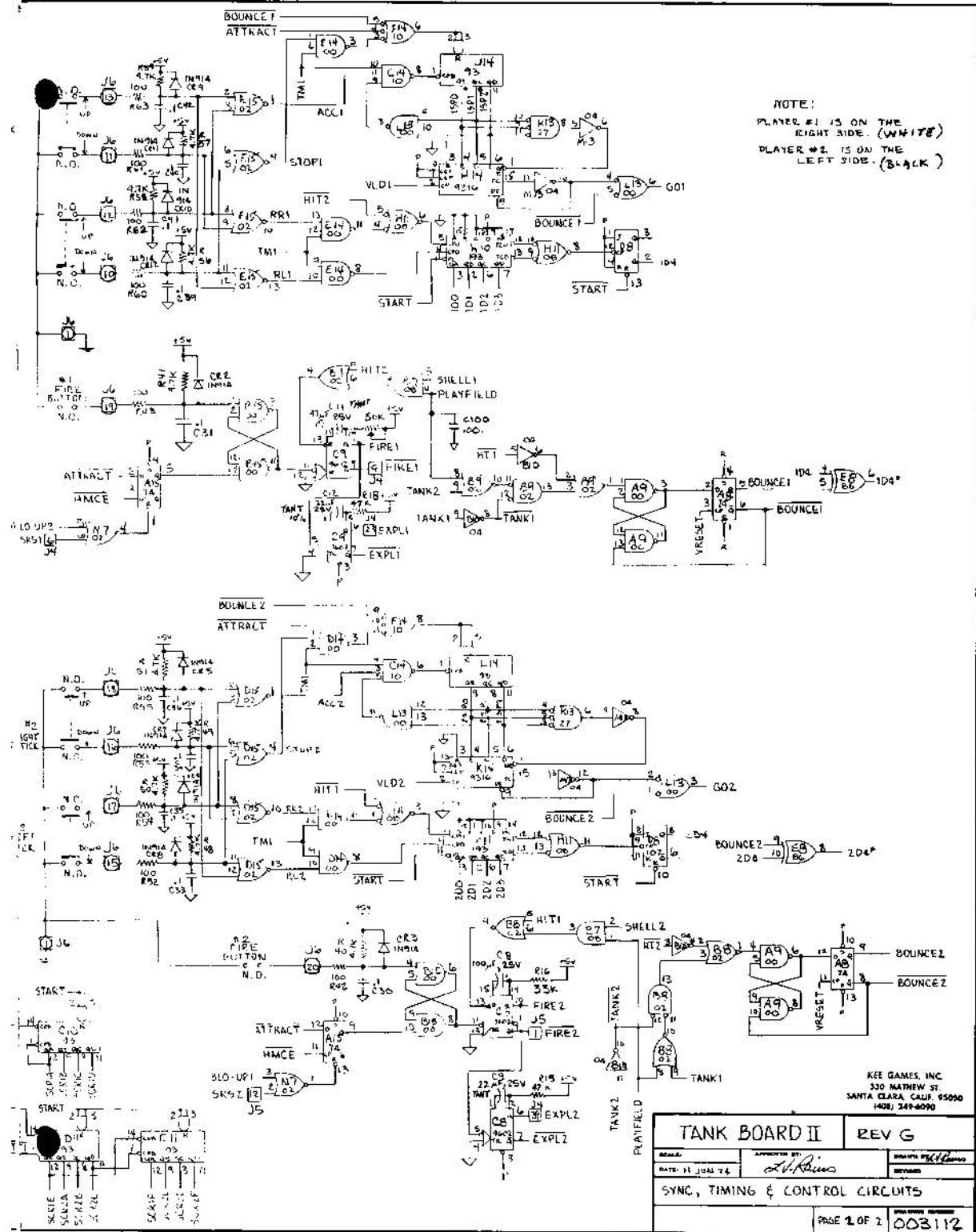
Rev.	Description	Date	Apprv.	Rev.	Description	Date	Apprv.
D	PROD RET	11-22	<i>✓</i>				
D	Incorporates ECN 74-120	11-26	<i>✓</i>				
D	Incorporates ECN 74-122	12-11	<i>✓</i>				
F	PER ECN 1047	1/3/75	<i>✓</i>				
G	PER ECN 1482	6/1/75	<i>✓</i>				

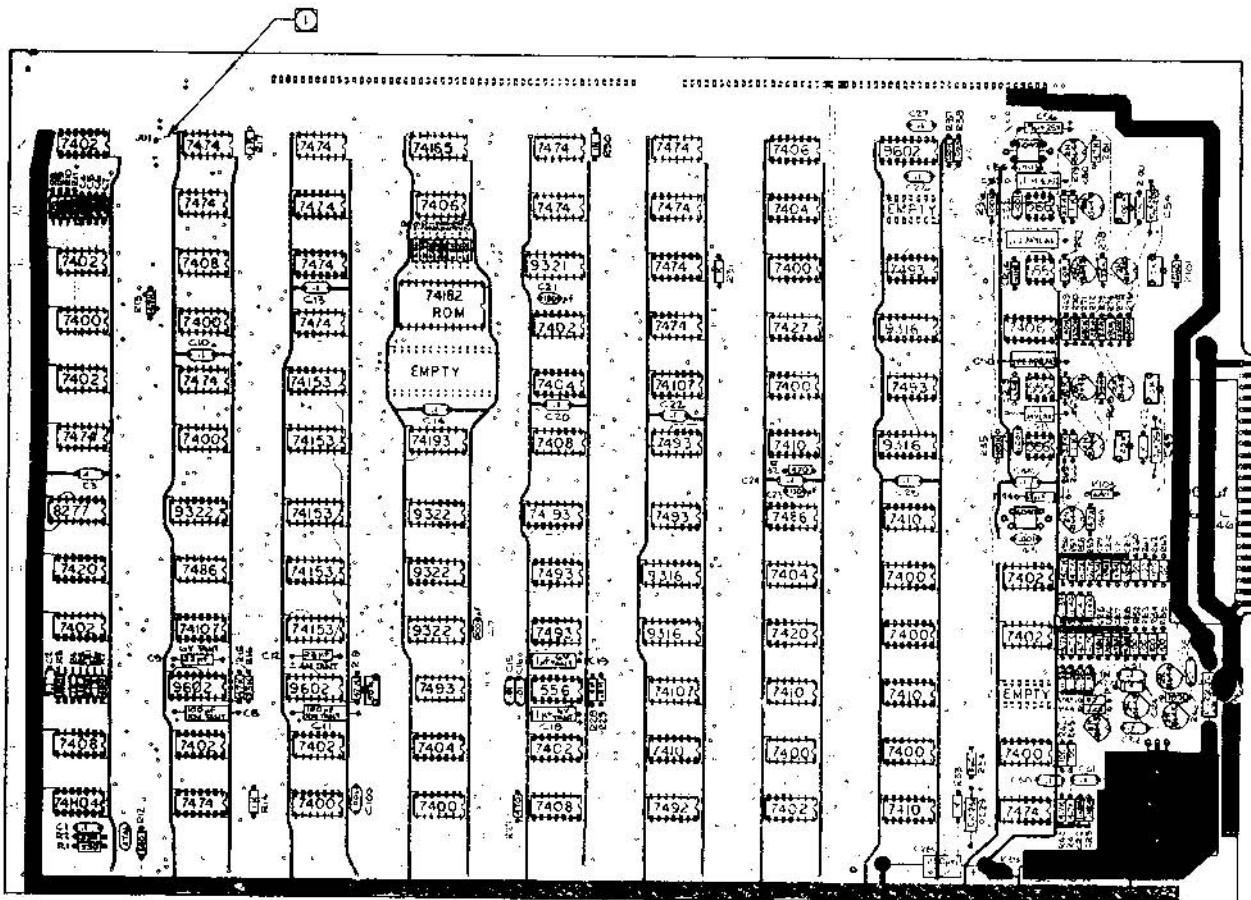
Item	Part Number	Qty.	DESCRIPTION					
1	37-7400	12	Integrated Circuit, 7400					
2	37-7402	11	" " 7402					
3	37-7404	4	" " 7404					
4	37-74H04	1	" " 74H04					
5	37-7406	3	" " 7406					
6	37-7408	4	" " 7408					
7	37-7410	6	" " 7410					
8	37-7420	2	" " 7420					
9	37-7427	1	" " 7427					
10	37-7474	16	" " 7474					
11	37-7486	2	" " 7486					
12	37-7492	1	" " 7492					
13	37-7493	7	" " 7493					
14	37-74107	3	" " 74107					
15	37-74153	5	" " 74153					
16	37-74165	1	" " 74165					
17	90-2006	1	16K Tank Rom E.A. #4800SD					
18	37-74193	2	Integrated Circuit, 74193					
19	37-8277	1	" " 8277					
20	37-9316	4	" " 9316					
21	37-9321	1	" " 9321					
22	37-9322	4	" " 9322					
23	37-9602	3	" " 9602					
24	37-555	2	" " 555					
25	37-556	1	" " 556					
26	37-566	2	" " 566					
27	37-MFC6040	2	" " MFC 6040					
28	10-5101	10	Resistor, Carbon, 5%, $\frac{1}{4}$ Watt, 100 ohm					
29	10-5102	12	" " 1K ohm					
30	10-5103	3	" " 10K ohm					
31	10-5104	4	" " 100K ohm					
32	10-5221	1	" " 220 ohm					
33	10-5223	2	" " 22K ohm					
34	10-5331	2	" " 330 ohm					
35	10-5333	3	" " 33K ohm					
36	10-5334	2	" " 330K ohm					
37	10-5392	2	" " 3.9K ohm					
38	10-5471	6	" " 470 ohm					











NOTES:

(1) Jumper J1 is an optional jumper for alternate playfield (#30 AWG, insulated)

SYM	DESCRIPTION	DATA	APPN
F	REV PER ECU 1041	0.7%	E
G	REV PER ECU 1482	0.4%	G

B

REF ID:	P.C.S.	DATE:	12/74
PRINTED DRAWING PER THIS SHEET DRAWING NO. 1041			
UNIVERSITY PRESS SPECIFIED DRAWING NO. 1041 1041-A			
DRAWN BY: <i>[Signature]</i> 10 JAN 75 DESIGNED BY: <i>[Signature]</i> 10 JAN 75 REVIEWED BY: <i>[Signature]</i> 10 JAN 75 APPROVED BY: <i>[Signature]</i> 10 JAN 75			
MATERIAL:			
ATARI INCORPORATED 1440 Winchester Boulevard Los Gatos, California 95030			
ASSEMBLY TANK BD. II			
D	ISSUE NO.	G	REV.
A003112	1	1	1

A

3 ↑ 2 | 1

ASSEMBLY TITLE

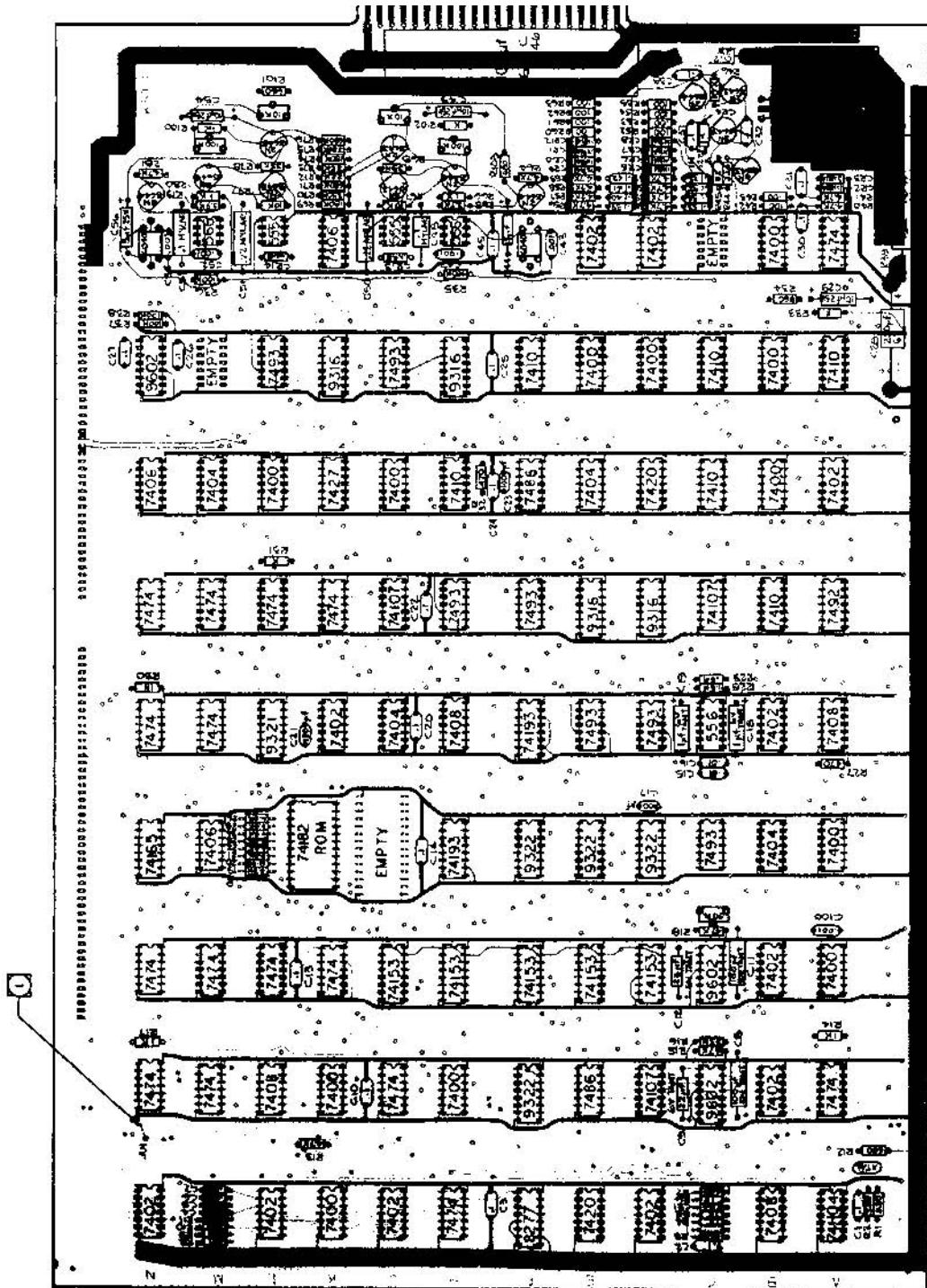
TANK - BOARD 2

P/L 003112

PARTS LIST SPECIFICATION

Page 2 of 2

Item	Part Number	Qty.	DESCRIPTION	Rev	S
39	10-5472	14	Resistor, Carbon, 5%, $\frac{1}{4}$ Watt, 4.7K ohm		
40	10-5473	1	" " " " 47K ohm		
41	10-5561	2	" " " " 560 ohm		
42	10-5681	4	" " " " 680 ohm		
43	10-5682	8	" " " " 6.8K ohm		
44	10-5820	1	" " " " 82 ohm		
45	10-5184	2	" " " " 180K ohm		
46	10-5185	2	" " " " 1.8M ohm		
47	13-5P22	1	" " " 2 Watt, .22 ohm		
48	19-808W4PO	1	" Wirewound, 20%, 10W, 4 ohm		
49	31-1N914	13	Diode, IN 914		
50	32-1N5229	1	Diode, Zener, IN 5229B, 4.3V, 5%, Motorola		
51	34-2N3643	7	Transistor, 2N 3643		
52	33-2N3644	5	Transistor, 2N 3644		
53	34-MJE200	1	Transistor, MJE 200		
54	19-311103	2	Trimpot, 10K		
55	19-3111503	1	Trimpot, 50K		
56	90-101	1	Crystal, 14.31818 mhz		
57	27-120104	26	Capacitor, Ceramic Disc Bypass, .1 uf		
58	27-101103	2	" " ".01 uf		
59	27-250105	9	" " ".001 uf		
60	28-101101	3	" Dipped Mica, 100 pf		
61	29-004	2	" Tantalum, 1 uf, 6V		
62	29-003	2	" 22 uf, 6V		
63	29-001	2	" 100 uf, 10V		
64	21-101224	2	" Mylar, .22 uf		
65	24-250505	2	" Electrolytic, 5 uf, 25V		
66	24-250106	3	" 10 uf, 25V		
67	24-060257	1	" 250 uf, 6V		
68	24-200808	1	" 8000 uf, 16V		
69	79-42424	1	Socket, 24 pin		
70	78-06002	1	Heatsink, Thermalloy #6111B-66		
71	55-6125	4	Flex Strip Jumper, 25 Conductor, Ansley #FSN-23A		
72	72-1412S	2	Screw, Machine, , Pan Hd., Phil., 4-40 x 3/4"		
73	75-044	2	Washer, Split Lock, #4		
74	75-914S	2	Nut, Hex 4-40		
75	003113	1	Printed Circuit Board, #90125		
76	10-5684	2	Resistor, Carbon, 5%, $\frac{1}{4}$ W, 680K ohm		
77	19-311104	2	Trimpot, 100K ohm		
78	21-101104	2	Capacitor, Mylar .1 uf		
79	_____	1	Jumper, (30 AWG, Insulated)		



NOTES:

① Jumper J1 is an optional jumper for alternate playfield (#30 AWG, insulated)

SYM	DESCRIPTION	WTG	APPV
F	REV PER ECN 1047	4817/2	2L
G	REV PER ECN 1482	4817/2	2L

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NEXT ASSY	USED ON	APPLICATION

INTERPRET THIS DRAWING PER MIL-STD 1741		DRAWN BY P.C.S.	DATE 12/74
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON			
FRACTIONS + .016 - .012 ANGLES +4° - 4° SURFACE FINISH ✓ 1A + .010		CHECKED <i>[Signature]</i>	
MATERIAL			
DESIGN ENGINEER <i>[Signature]</i> 10 JAN 75		DESIGNER <i>[Signature]</i> 10 JAN 75	ATARI INCORPORATED 14600 Winchester Boulevard Los Gatos, California 95030
		ENGR. APPROVAL <i>[Signature]</i> 7/1/75	
		APPROVED <i>[Signature]</i> 7/1/75	REV. G
SZL:	DRAWING NO. A003112	SCALE 1:1	SPRT 1 OF 1

3

↑

2

1

B

A