

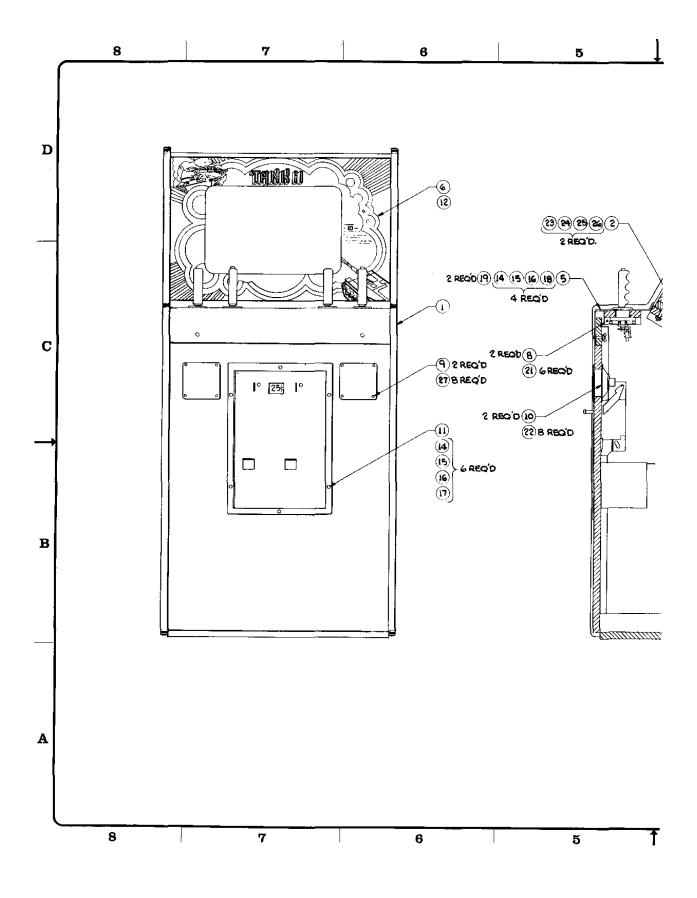
Operation · Maintenance · Service Manual

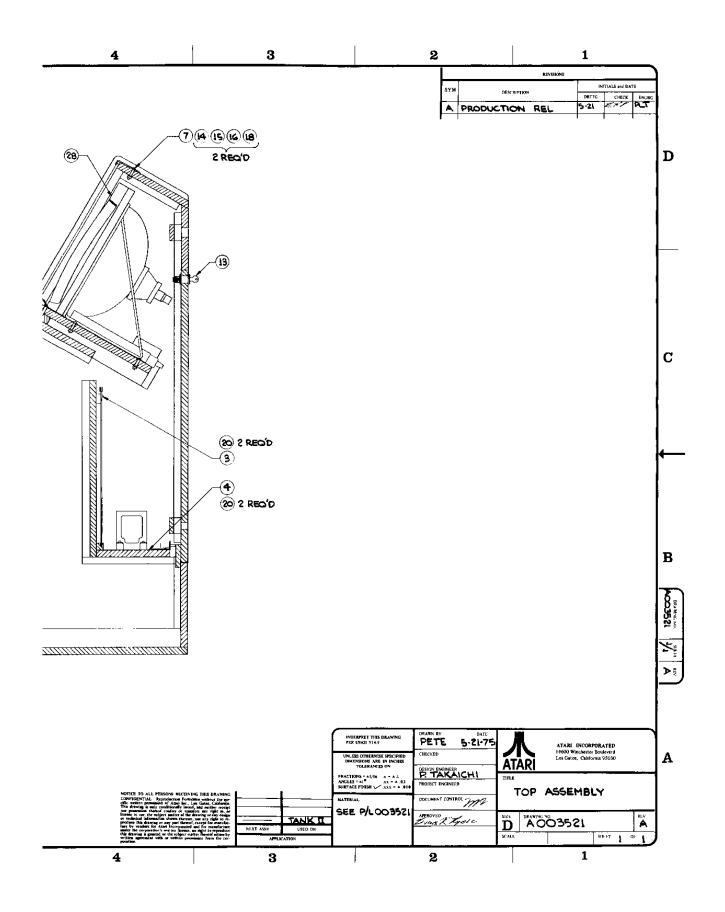


A Subsidiary of Atari

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

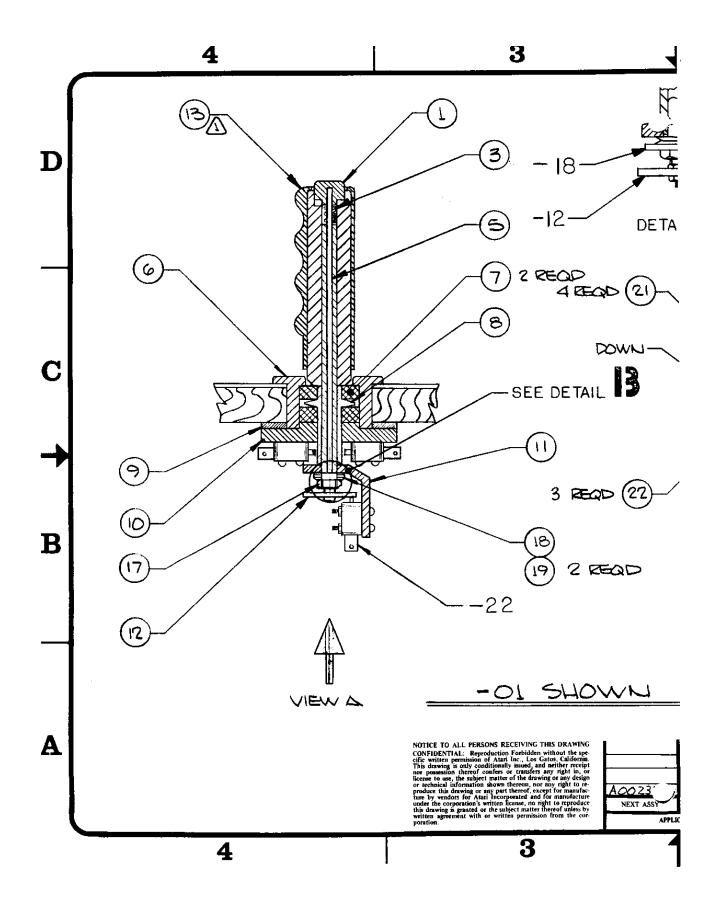
TANK II P/L003521 TOP ASSEMBLY - TANK II ASSEMBLY TITLE Page 1 of 1 PARTS LIST SPECIFICATION Drawn Mech. Eng. Checked 5/20/75 Proj. Eng. REV. Elec. Eng Innovative leisure Α Rev. Description Apprv. Rev. Description Date Date $\Lambda pprv.$ A PROD REL 5/1/75 R_{1} DESCRIPTION ltem Part Number Qty. A003522 1 Cabinet Assembly 1 2 A003544 1 TV Mount Board Assembly 1 PC Mount Board Assembly 3 A003534 A003538 4 1 Electronics Tray Assembly 5 1 Control Panel Assembly A003540 1 Plex Screen W/Artwork 6 003543 7 1 Retainer, Upper Plex. 001573 8 002728 2 Panel Mtg. Brackets ġ 000869 2 Speaker, Grill *****48-004 2 Speaker, 4" 10 Coin Door Assembly A003637 11 1 "Coin" Decal 12 003542 1 13 1 Lock, Mech., Barrel Cartridge 71-2112 Bolt, Carriage, #10-24 x 1.25" Long 12 14 75-5120M Washer, Flat, #10 15 75-010S 10 75-040 12 Washer, Split-Lock, #10 16 75-911S 17 6 Nut, Hex, #10-24 18 75-931 6 Nut, Wing, #10-24 19 75-035S 2 Washer, Flat, &" Wide Pattern Screw, SM, Pan Hd., Phil. #6 x 1.25" Lg. 20 72-6620 4 Screw, SM, Pan Hd., Phil. #8 x .75" Lg. 21 72-6812 6 Screw, SM, Pan Hd., Phil. #8 x .50 Lg. 22 72-6608 8 23 75-5544 2 Bolt, Carriage, #4-20 x 2.75" Lg. 2 Washer, Flat, & 24 75-015S Washer, Split Lock, 4 25 75-045 2 Nut, Wing, ½-20 Pop Rivet, Alum. 3/16" DIA. x .68 Lg. 75-935 2 26 27 73-77004 8 Bezel, Cardboard 28 003752 1 * This speaker may be replaced by any speaker previously used on TANK.

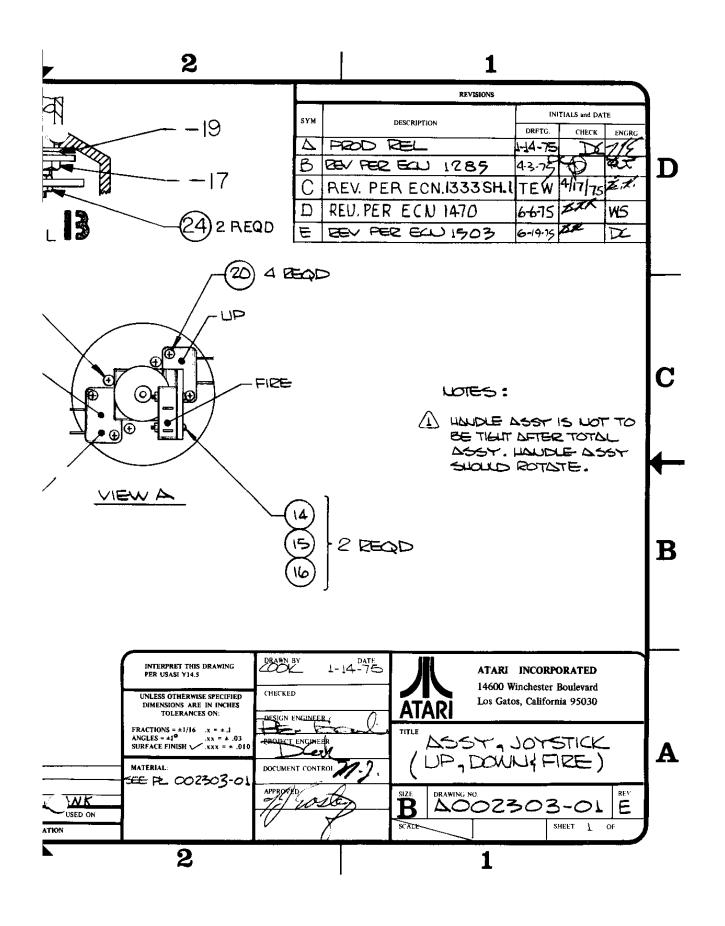


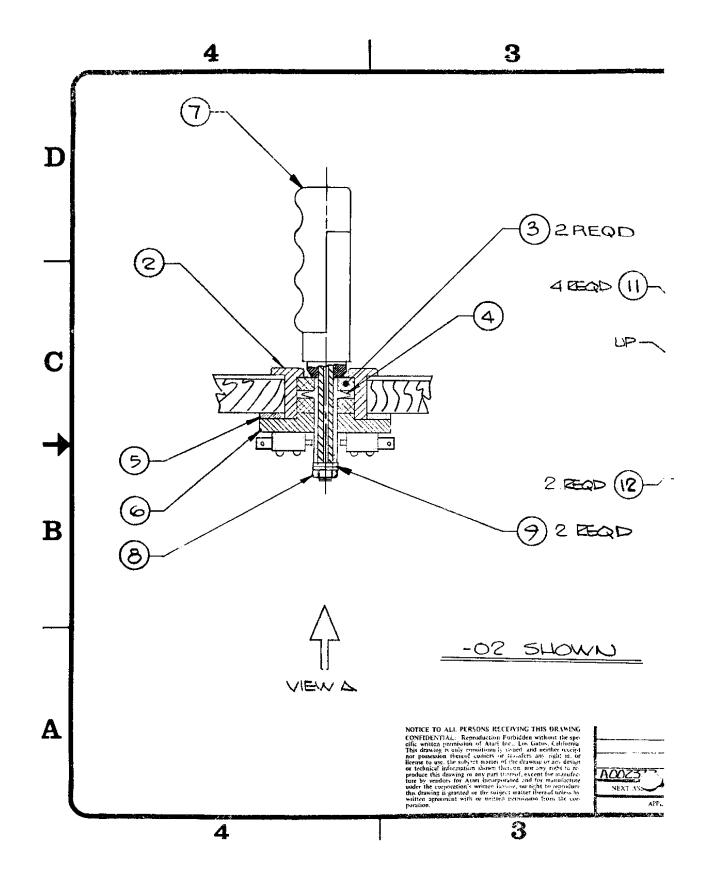


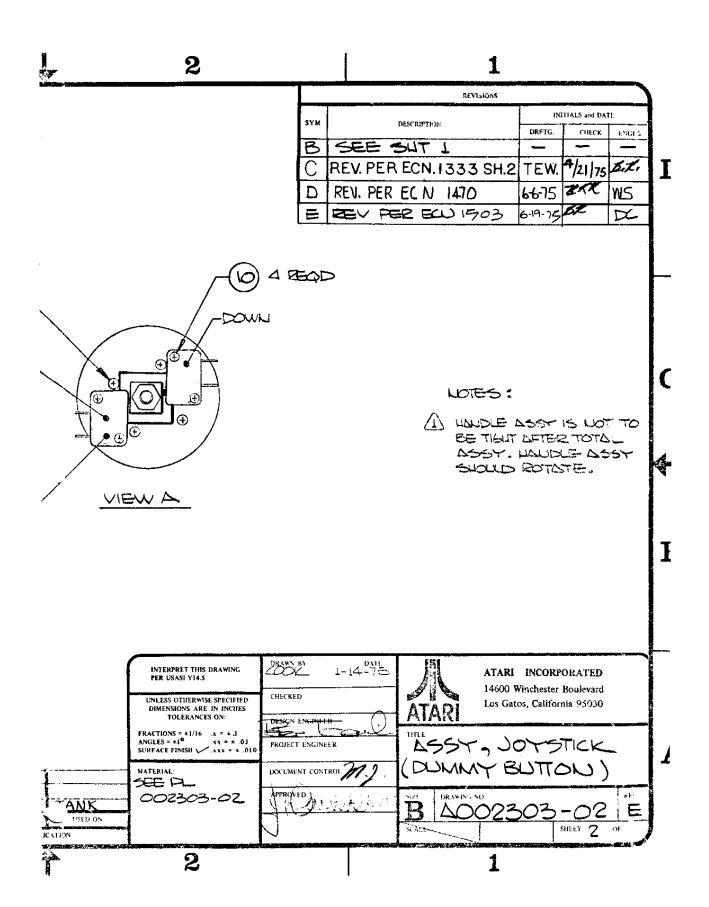
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leis Rev.	Description			Date	Apprv.	Rev.	Desci	ription		Date	E Apprv
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D E	Rev per ECN 1 Rev per ECN	470		6/75	IS BY						
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11 12 13 14 15 16 17 18 19 20 21 22 23	002301 002300 A003583-01 75-2412S 75-044 75-914S 75-991202 75-06003 75-06003 72-6410 72-6412 **65-081A	2	1 1 1 2 2 2 1 1 2 4 4 3	Bra Act Han Scr Was Nut Was Was Scr	cket, S uator dle Ass ew, Mac her, S Hex Hex her, F her, Be ew, She	Switch Sy th, Rd blit Lo 44-40 4-28 lat, 5. cllevil eet Met	ock, #4 /16 le Spri	1 #4-40x3, ng 1. #4× 5/ 1. #4× 3/	⁷ 8		
24	75-912S		2	Nut	, Hex,	#2-56					
				** A	tional cceptab	le Sub	Grip Sestitutes		. 00309	32	

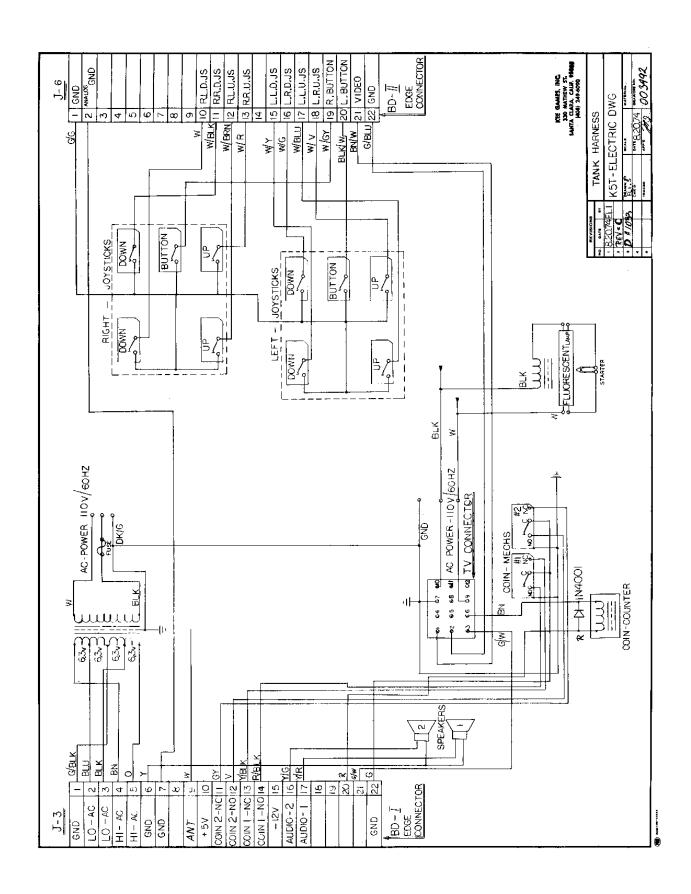
W		ASSEMBLY TITLE JOYSTICK ASSY (DUMMY BUTTON) P/L 00230								
				PAR	rs list	SPECI	FICATION	Page 1 o	f_1	
ATA Innov	ative	Drawn Checke Proj.		7.2	. 5/2	0/75	Mech. Eng. LLX,		REV.	
leis Rev.	Description			ate	Apprv.	Rev.	Description	Date	E Apprv.	
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Item	Part Number	T Q	ty.			2	ESCRIPTION			
1 2 3 4 5 6 7 8 9 10 11 12	002294 002296 002297 003207 A003583-02 75-991202 75-019S 77-6410 72-6412 **65-081A		1 2 1 1 1 1 1 2 4 4 4 2	Hub Space Swit Hand Nut, Wash Scre Swit	er, Ret er Ring ch Plat le Assy Hex, % er, Fla w, Shee ch es:	te 11 ;-28 it, 5/1 it Meta it Meta	6 1, Phil. #4 x 5/8 1, Phil. #4 x 3/4 Grip See DWG No. 00	3082		



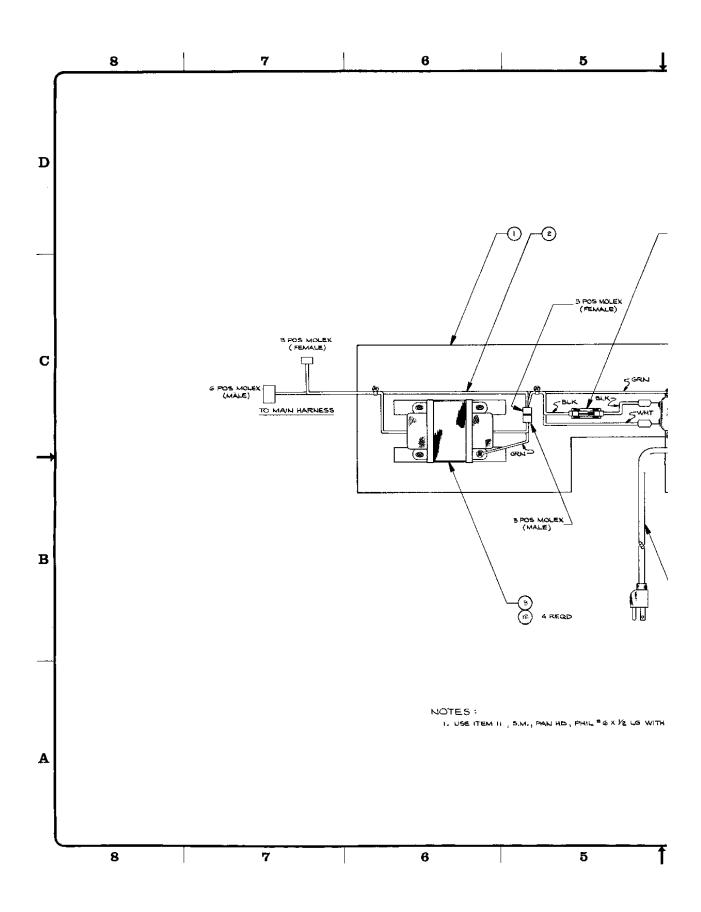


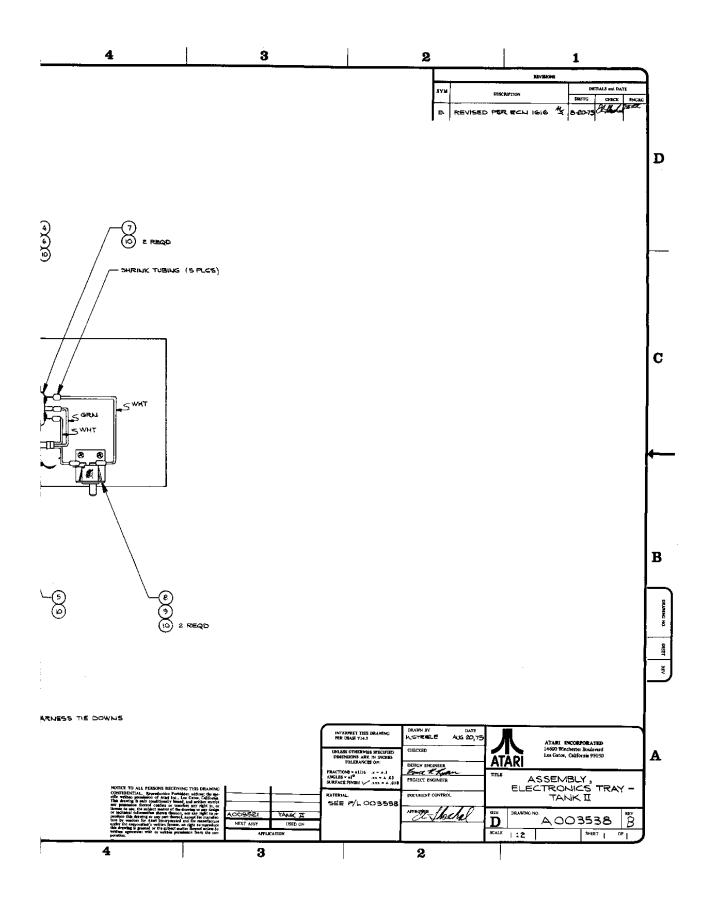


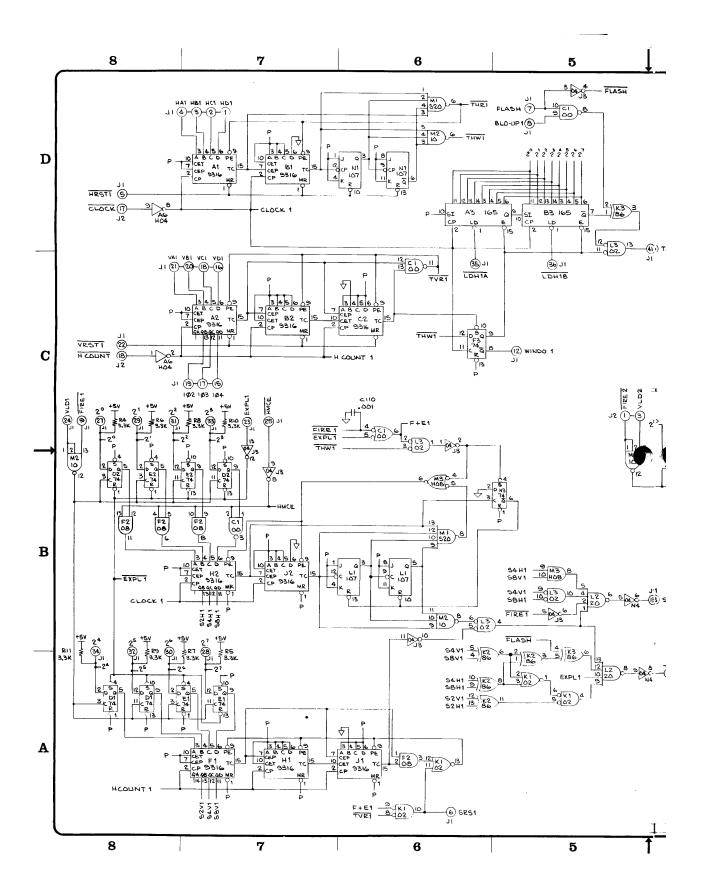


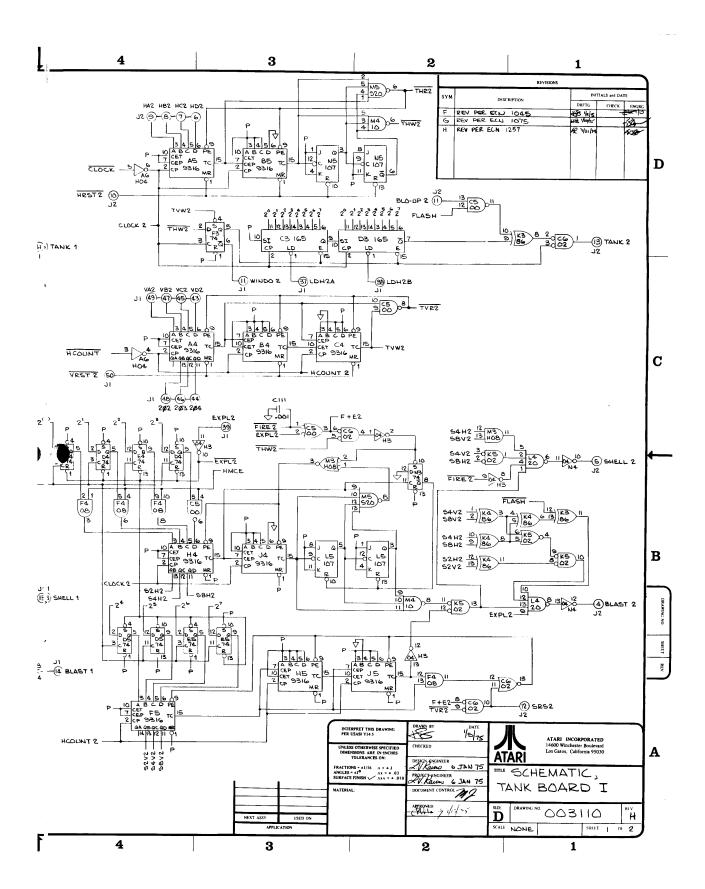


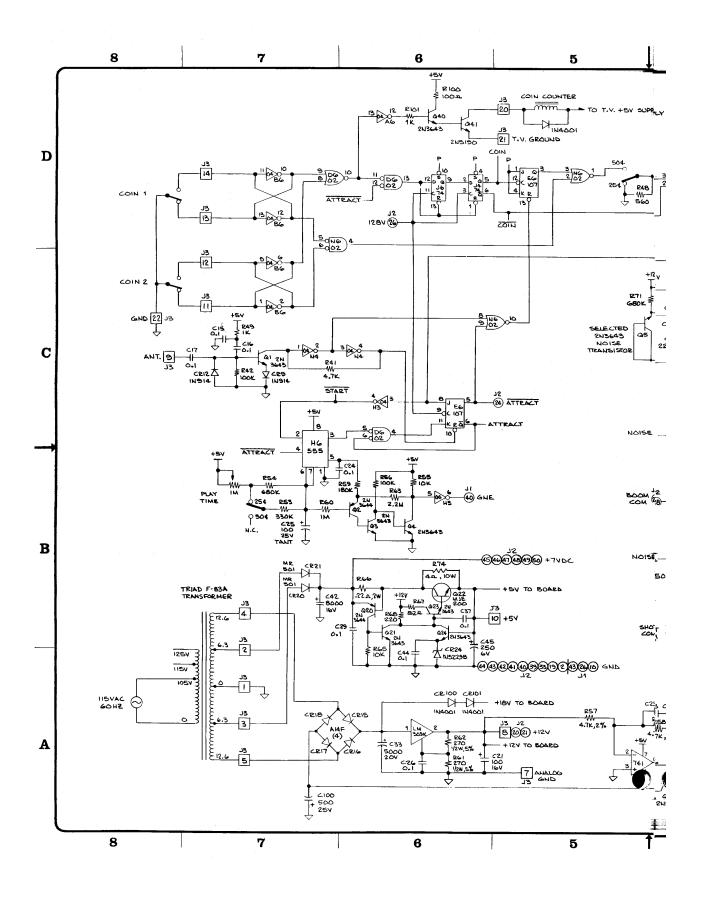
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				PAR'	<u>rs</u> LIST	SPECI	FICATION	Page <u>l</u> of <u>l</u>		
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A	PROD REL				DE F				- PPA	
В	Rev per ECN 1	616			3745	<u> </u>				
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tem	Part Number	. To	<u> </u>				DESCRIPTION			
. cem	Part Number		у.							
1	003539	1			ctronic	-				
2	A003492	1	1		Main Harness Assy. (K5-T) Transformer Assy.					
3	A003560-01]]								
4	A003460]]	1		AC Power Harness Assy. 8" Power Cord Assy					
5	A004244	1		_						
6	46-202202	1		Fuse		T à				
7	90-3001		- I		ter, Po		ne lock Switch			
8	68-001	1 3	- ;		. Power cket, S					
9	000268		- I		ew Down					
10 11	78-25002 72-6608	6					d, Phil #6 x ½" Lg.			
12	72-6608	1 7	1	Son	om cw ewi owi	Pan H	d, Phil #8 x l^{1} ; Lg.			
12	1 /2-0024	1 7	•	DOT.	Car Dil		,			

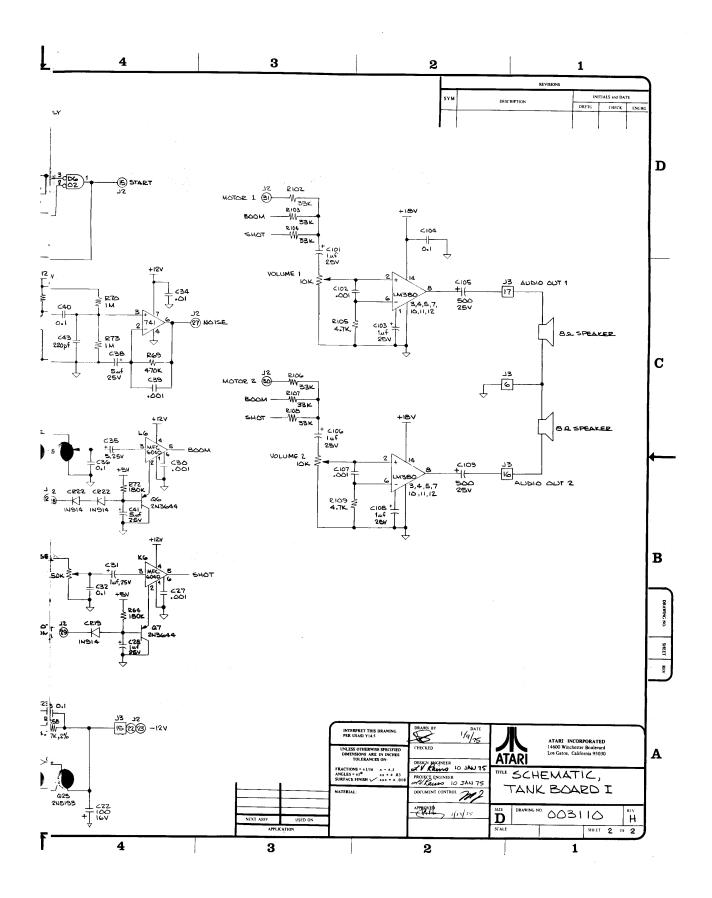


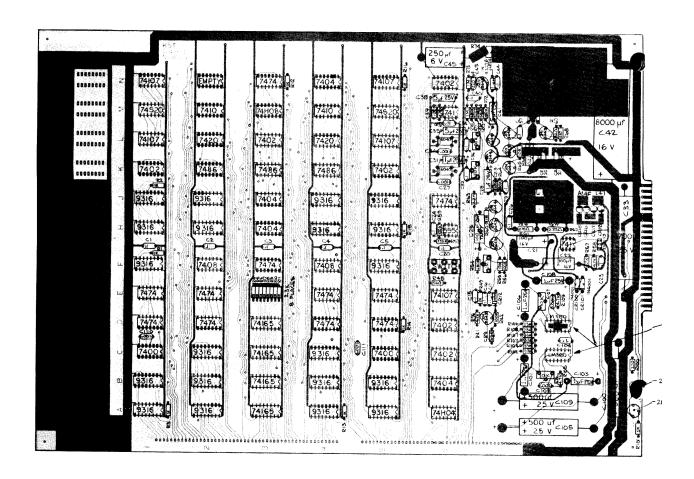








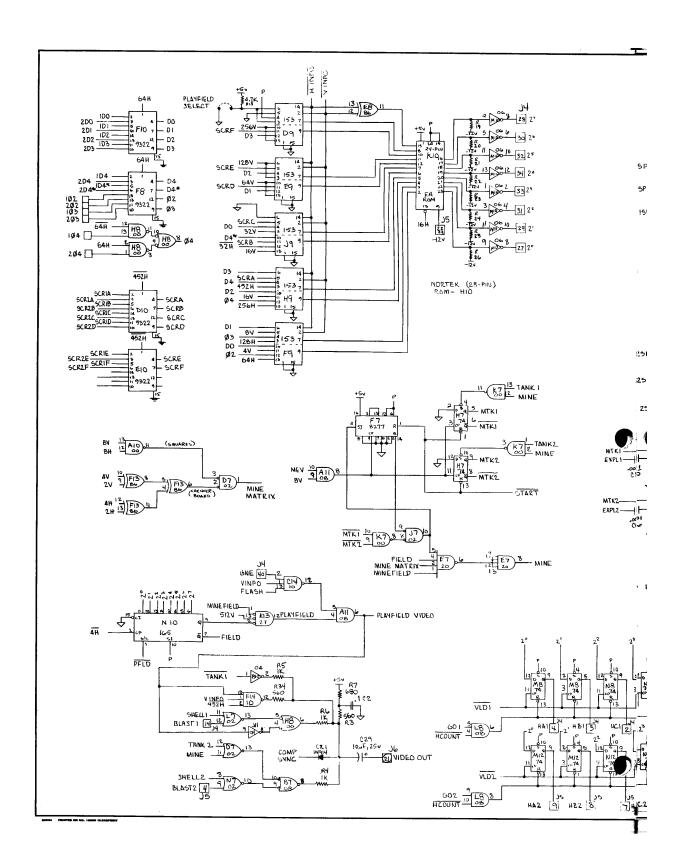


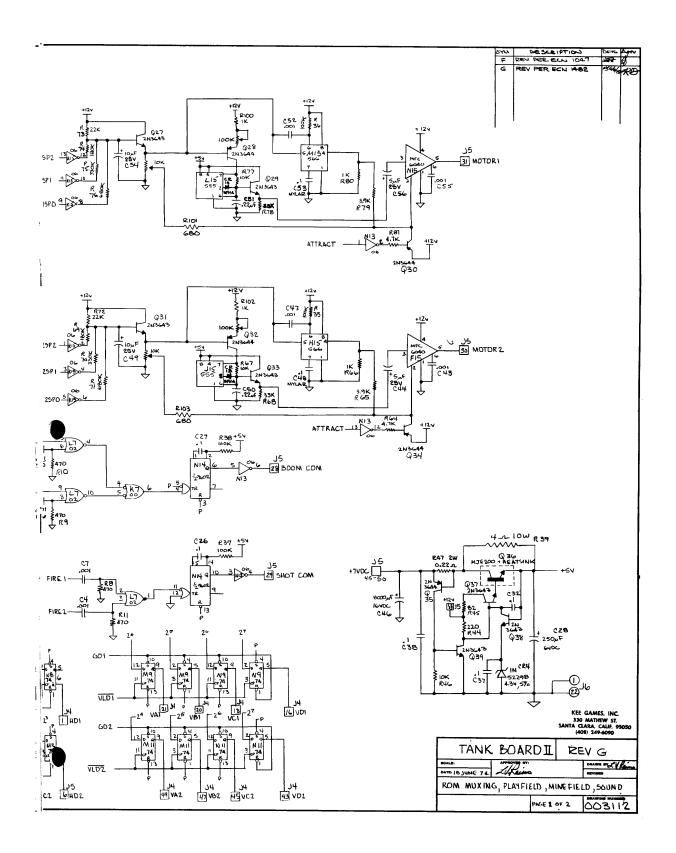


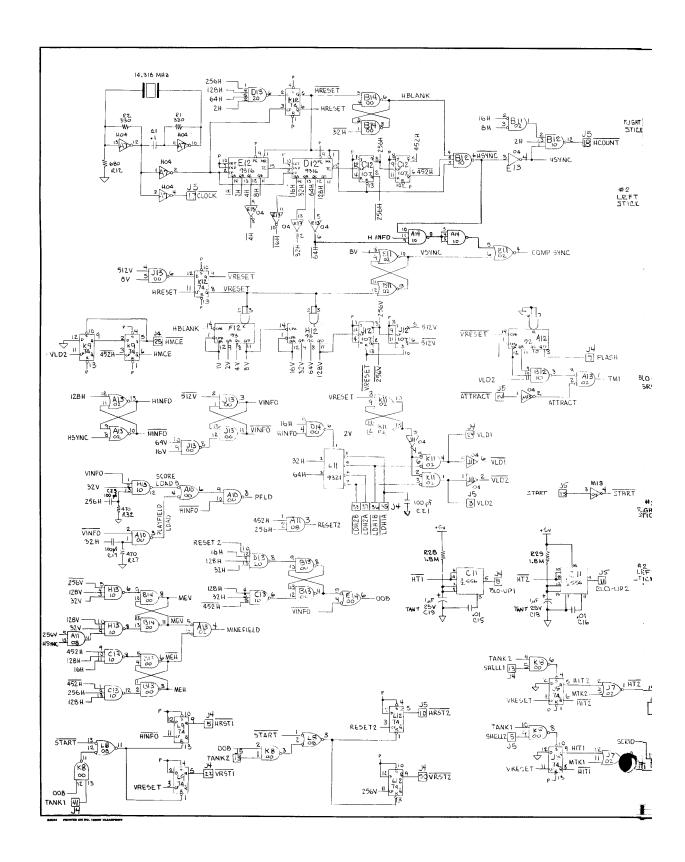
TANK ASSEMBLY TITLE P/L003110 TANK - BOARD 1 Page 1 of 2 PARTS LIST SPECIFICATION Drawn Checked M 2. *4-15-75* Mech. Eng. amo 3 JAN 75 Proj. Eng. 3 JAN 75 Eng REV. Innovative 1/3/75 leisure Η CTVIC-<u>Desc</u>ription Rev. Description Apprv Rev. Date Apprv. Date XX or **P**ROD KEL D 11-22 Incorporates ECN 74-120 11-26 KIRS-D D Incorporates ECN 74-124 PLU PER ECH 1045 REV PER ECK 1075 1/20/25 KE Rev per ECN 1257 3/21/75 Η Item Part Number Qty. DESCRIPTION Integrated Circuit, 7400 2 1 37-7400 7402 6 2 37-7402 11 11 7404 4 37-7404 3 11 11 74H04 1 4 37-74H04 11 11 2 7408 5 37-7408 11 11 74H08 1 6 37-74H08 11 11 7410 2 7 37-7410 11 11 7420 2 37-7420 8 11 2 11 74S20 9 37-74S20 11 11 7474 37-7474 11. 10 11 ** 7486 3 37-7486 11 11 11 74107 37-74107 5 12 11 11 74165 4 13 37-74165 11 11 9316 14 37-9316 20 11 11 555 15 37-555 1 11 11 2 741 16 37 - 74111 11 LM380 2 17 37-LM380 MFC 6040 11 2 18 37-MFC6040 LM 309 K, Voltage Regulator 1 19 37-LM309 ohm 1 Resistor, Carbon, 5%, ¼ Watt, 100 20 10-5101 11 1K ohm 21 10-5102 10 ŤŤ 11 ۲t 11 10K ohm 22 10-5103 2 11 11 11 Ħ 100K ohm 3 23 10-5104 11 11 11 11 ohm 3 1Meg 24 10-5105 Ħ 11 11 220 ohm25 10-5221 1 11 Ħ 11 11 2.2M ohm 26 10-5225 1 ţſ 11 11 11 33K ohm 27 10-5333 6 11 11 11 11 4.7K ohm 28 10 - 54723 29 470K 11 11 11 11 ohm 1 30 10-5474 11 11 T1 11 560 ohm 1 31 10-5561 32 33 11 2 TI 11 11 680K ohm 34 10-5684 t1 ţt 11 82 ohm 1 35 10-5820 36 11 11 11 11 330K ohm 1 37 10-5334 11 28 11 4.7K ohm 2 38 14-2472 2 Resistor, Carbon, 5%, ½ Watt, 270 ohm 39 11-5271

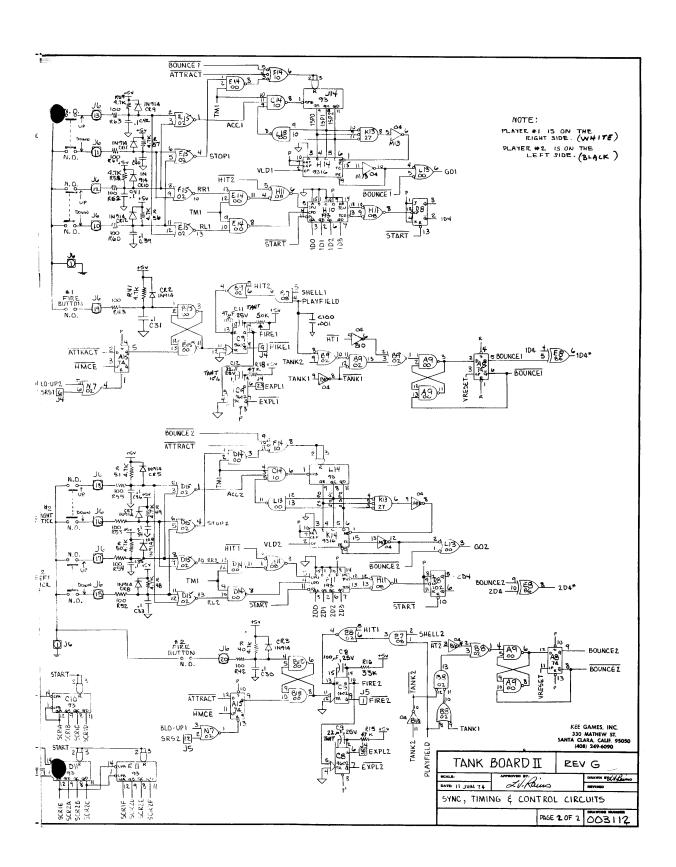
P/L ASSEMBLY TITLE 003110 TANK - BOARD 1 PARTS LIST SPECIFICATION Page 2 of 2 Rev Item Part Number H Qty. DESCRIPTION 40 1 Resistor, Carbon, 5%, ½ Watt, .22 ohm 41 13-5P22 1 Resistor, Wirewound, 20%, 10 Watt, 4 ohm 42 19-808W4PO 5 43 31-1N914 Diodes, 1N 914 44 2 Diodes, 1N 4001 31-1N4001 45 Diodes, Zener, 1N 5229B, 4.3V, 5%, Motorola 32-1N5229 1 2 46 Diodes, MR 501 31-MR501 47 34-2N3643 8 Transistor, 2N 3643 Transistor, 2N 3644 48 3**3-**2N3644 4 Transistor, 2N 5190 1 49 34-2N5190 50 1 Transistor, 2N 5193 34-2N5193 1 Transistor, MJE 200 51 34-MJE200 2 Trimpot, 50K 52 19-311503 2 Trimpot, 10K 53 19-311103 54 19-311105 1 Trimpot, 1 Meg 19 Capacitor, Ceramic Disc Bypass, .1 uf 55 27-120104 7 56 27-101102 .001 uf 6 11 Electrolytic, 1 uf, 25V 57 24-250105 11 5 uf, 25V 58 3 24-250505 2 100 uf, 16V 59 24-160107 60 1 11 250 uf, 6V 24-060257 11 61 24-250478 1 4700 uf, 25V 1 11 8000 uf, 16V 62 24-200808 1 11 Dipped Mica, 220 pf 63 28-101221 1 64 29-001 Tantalum, 100 uf, 10V 1 65 Switch, DPDT 69-001 1 66 78-06002 Heatsink, Thermalloy #6111B-66 2 67 HEATSINK, THERMALLOY *GOILB 78-06003 , Pan Hd., Phil., 6-32 x 2 68 72-1610S Screw, Machine, 5/8" 69 75-056 2 Washer, Lock, Internal Star, #6 70 75-916S 2 Nut, Machine, Hex, 6-32 71 2 Screw, Machine, , Pan Hd., Phil., 4-40 x 72-1412S 3/4" 72 75-044 2 Washer, Split Lock, #4 73 75-914S 2 Nut, Hex, 4-40 74 1 Printed Circuit Board, #90124 003111 75 2 Resistor, Carbon, 5%, \W, 180K ohm 10-5184 1 Capacitor, Ceramic Disc, .01 uf 76 27-101103 3 77 24-250507 Capacitor, Electrolytic, 500uf, 25V RESISTOR CARBON, 5%, 1/4W, 3.3K OHM Diode, G.E. Type Al4F 78 8 10-5332 79 31-A14F

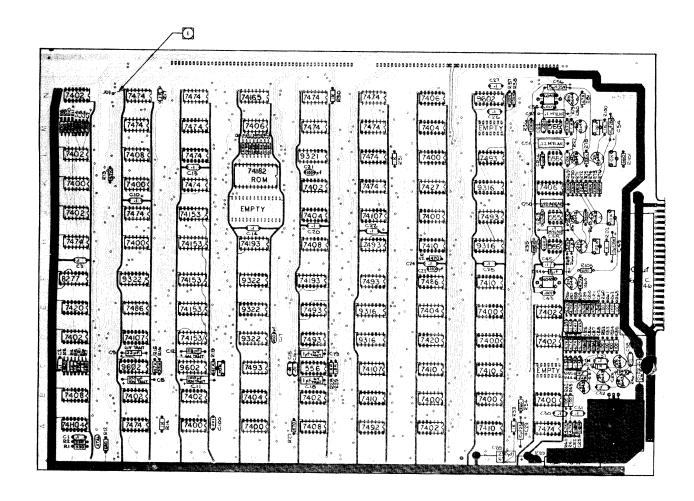
TANK P/L 003112 ASSEMBLY TITLE TANK - BOARD 2 Page 1 of 2 PARTS LIST SPECIFICATION Drawn Checked 77. Mech. Eng. 4.8/251 175 CX Proj. Eng. Al Kan 3 JAN75 3.4H75 Innovative Elec. Eng. REV. leisure 1/6/75 G Rev. Description Rev. Date Apprv. Description Date Apprv. PROD REI D 11-22 ncorporates ECN 74-170 11-26 D 12-11 D Incorporates ECN 74-172 F PER ECN 1047 1/13/15 6/11/752:018 F G PER ECH 1482 Item Part Number DESCRIPTION Qty. 12 Integrated Circuit, 7400 1 37-7400 7402 2 37-7402 11 7 [11 7404 3 37-7404 4 11 11 74H04 4 37-74H04 1 11 37-7406 11 7406 5 3 11 11 7408 37-7408 4 6 11 11 6 7410 7 37-7410 11 11 7420 8 37-7420 2 11 11 37-7427 1 7427 9 11 11 10 37-7474 16 7474 11 11 2 7486 77 37-7486 ** 11 12 37-7492 1 7492 7 11 11 7493 37-7493 13 11 tt 3 74107 14 37-74107 11 11 5 74153 15 37-74153 37 - 741651 74165 16 1 16K Tank Rom E.A. #4800SD 17 90-2006 37-74193 2 Integrated Circuit, 74193 18 1 11 8277 19 37-8277 *1 17 9316 4 20 37-9316 11 11 9321 21 37-9321 1 11 Ħ 37-9322 4 9322 22 11 11 23 37-9602 3 9602 71 11 2 555 24 37-555 11 Ħ 556 1 25 37-556 11 ŧŧ 2 566 26 37-566 11 Ħ 27 2 MFC 6040 37-MFC6040 5%, ¼ Watt, 100 ohm 28 10 Resistor, Carbon, 10-5101 lΚ ohm12 29 10-5102 11 11 11 10K ohm 10-5103 3 30 11 11 4 100K ohm 31 10-5104 11 11 11 11 32 10-5221 1 220 ohm 17 ** 11 2 tt 22K ohm 10-5223 33 11 Ħ Ħ 11 330 ohm 2 34 10-5331 ţſ 11 11 Ħ 33K ohm3 35 10-5333 11 11 11 ## 330K ohm 2 36 10-5334 ŧŧ 11 T 11 3.9K ohm37 2 10-5392 11 11 6 470 ohm 38 10-5471







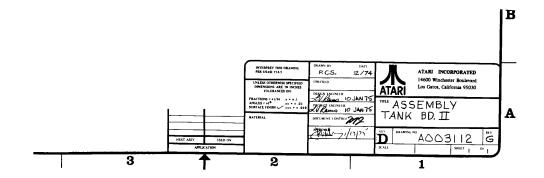




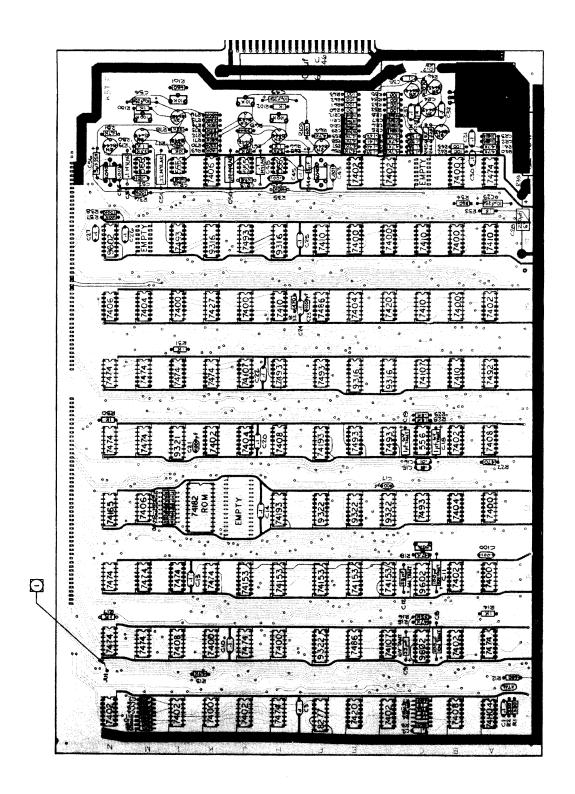
NOTES:

JULI IS AN OPTIONAL JUMPER FOR ALTERNATE PLAYFIELD (# 30 AWG , INSULATED)

SYM	DESCRIPTION	DFT6	T PPV
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G	REV PER ECN 1482	3 4/4	₹ €
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ASSEMBLY TITLE TANK - BOARD 2 P/L CO3112 PARTS LIST SPECIFICATION Page 2 of 2								
39 40	10-5472 10-5473	14	Resistor, Carbon, 5%, ½ Watt, 4.7K ohm					
41 42	10-5561 10-5681	2 4	'' '' '' 560 ohm '' '' '' 680 ohm					
43 44	10-5682 10-5820	8	" " 6.8K ohm " 82 ohm					
45	10-5184	$\begin{bmatrix} \frac{1}{2} \\ 2 \end{bmatrix}$	" " " 180K ohm " " 1.8M ohm					
46 47	10-5185 13-5P22	1 1	" " 2 Watt, .22 ohm					
48 49	19-808W4PO 31-1N914	1 13	Diode, IN 914					
50 51	32-1N5229 34-2N3643	1 7	Diode, Zener, 1N 5229B, 4.3V, 5%, Motorola Transistor, 2N 3643					
52 53 54	3 3- 2N3644 34-MJE200 19-311103	5 1 2	Transistor, 2N 3644 Transistor, MJE 200 Trimpot, 10K					
55 56	19-311503 90-101		Trimpot, 50K Crystal, 14.31818 mhz					
57 58	27-120104 27-101103	26	Capacitor, Ceramic Disc Bypass, .1 uf					
59 60	27-250105 28-101101	9	" " " .001 uf " Dipped Mica, 100 pf					
61 62	29-004 29-003	2 2	" Tantalum, 1 uf, 6V " 22 uf, 6V					
63 64	29-001	2	" " 100 uf, 10V " Mylar, .22 uf					
65	21-101224 24-250505	2 2 3	" Electrolytic, 5 uf, 25V " " 10 uf, 25V					
66 67	24-250106 24-060257	1 1	" " 250 uf, 6V " " 8000 uf, 16V					
68 69	24-200808 79-42424	1 1	Socket, 24 pin					
70 71 72	78-06002 55-6125 72-1412S	1 4 2	Heatsink, Thermalloy #6111B-66 Flex Strip Jumper, 25 Conductor, Ansley #FSN-23A Screw, Machine, , Pan Hd., Phil., 4-40					
73 74	75-044	2 2	x 3/4" Washer, Split Lock, #4 Nut, Hex 4-40					
75 76	75-914S 003113 10-5684	1 2	Printed Circuit Board, #90125 Resistor, Carbon, 5%, \(\frac{1}{2} \text{W}, 680 \text{K} \) ohm					
77 78	19311104 21-101104	2 2	Trimpot, 100K ohm Capacitor, Mylar .1 uf					
79		1	Jumper, (30 AWG, Insulated)					



NOTES: [] JULI IS AN OPTIONAL JUMPER FOR ALTERNATE PLAYFIELD (#30 AW6, INSULATED)

