PIN PONG

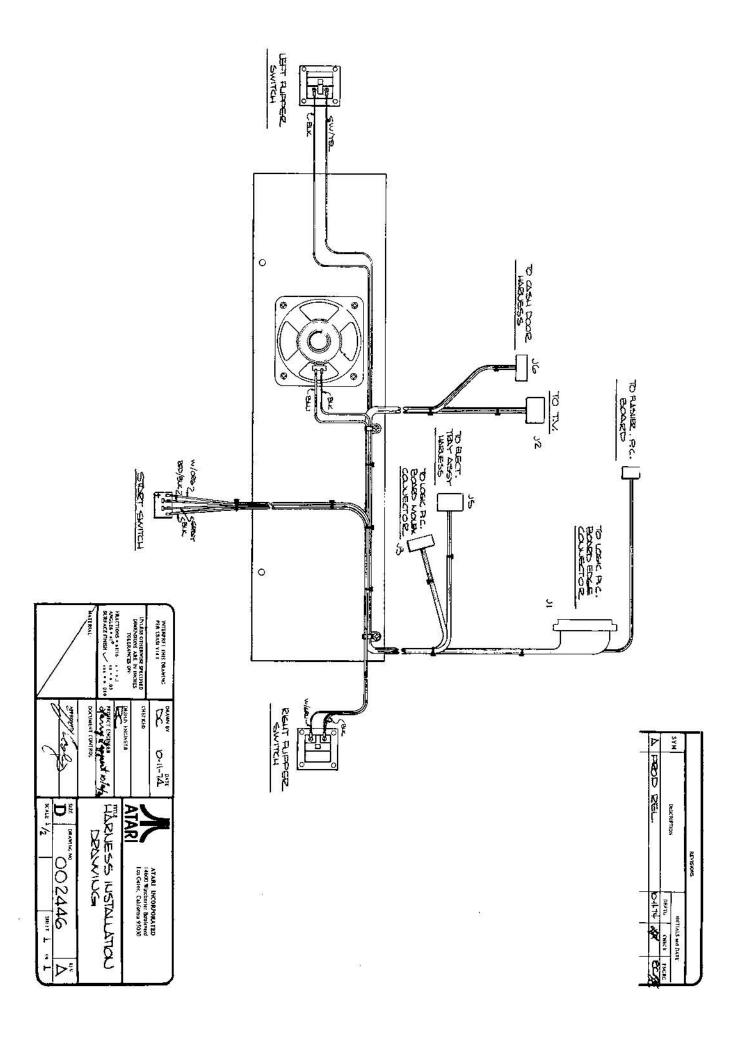
Operation and Maintenance Manual

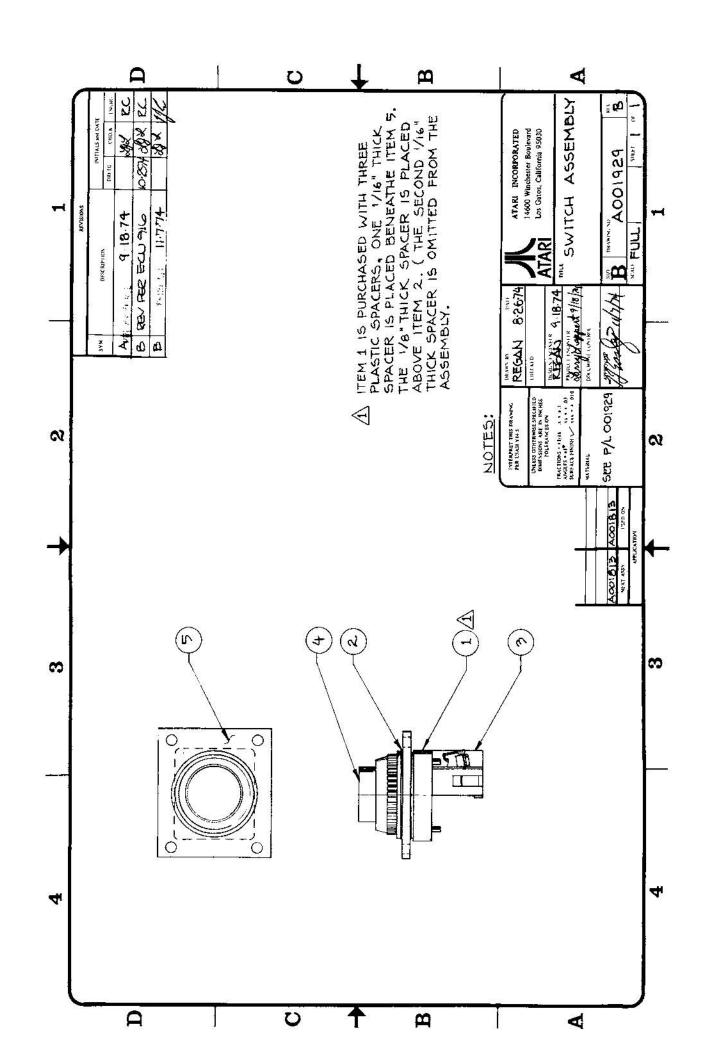


P.C. BOARD ASSEMBLY عليه إدماناك Dwg.P/L 001660-01 PIN PONG - 60 HZ pecification sheet 1 of 2 Cynthia Drawn Checked Mech. Eng Rev. Proj. Eng. **ATAR** 5 Elec. Eng. Rev. Description Λ_{DPFV} Rev. Description Apprv. PROD. REL C. D REV PER ECN 751,811,812 E Rev per ECN 926 Rev per ECN 971 REV PER ECH 1071 Ci Item Part. No. QLy. Description 72062/37-74L00 1 Integrated Circuit, 74L00 2 72000/37-7400 8 7400 3 72001/37-7402 11 7 7402 72002/37-7404 11 4 5 7404 5 11 72027/37-7408 11 8 7408 6 7 72003/37-7410 7410 7 72061/37-7414 :1 1 7414 8 72004/37-7420 5 11 7420 9 11 72006/37-7427 2 7427 10 11 72007/37-7430 2 11 7430 11 11 72064/37-7432 1 7432 11 ** 12 72008/37-7448 1 7448 13 72010/37-7474 20 7474 72059/37-7485 ** 74 2 7485 15 72012/37-7486 8 11 7486 16 72013/37-7490 11 7490 17 72014/37-7493 11 3 7493 18 72015/37-74107 74107 72016/37-74153 11 19 2 11 74153 20 72060/37-74164 1 74164 21 72035/37-74193 5 ** ** 74193 ## 22 72024/37-9312 4 9312 72036/37-9314 11 23 fi 3 9314 24 72017/37-9316 3 11 9316 25 72031/37-9321 11 1 9321 11 72025/37-9322 11 26 4 9322 27 11 72026/37-9602 1 9602 28 72057/37-LM323K 1 LM323K 11 11 29 72048/37-LM380 1 LM380 11 30 72058/37-MC4024 1 MC4024 11 72042/37-MFC6040 11 31 T MFC 6040 ** 32 72040/37-CD4016 1 CD4016 11 33 72021/37-NE566 1 NE566 34 22103/19-311103 1 Trimpot, LOKI Trimpot, 35 22502/19-311502 1 БK 36 22105/19-311105 1 Trimpot, M 37 37000/24-160802 Capacitor, Electrolytic, 8,000 uf, 16V

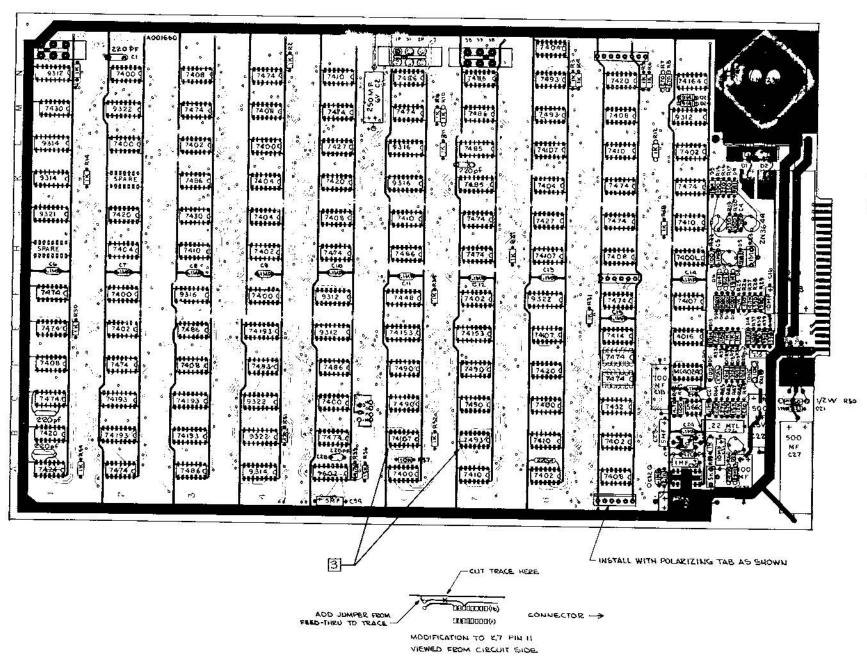
	PCB ASSY PI	N POI	VG - 60 HZ sheet 2 of 2 Rev. G
Item	Part No.	Qty.	Description
38	35503/24-250501	3	Capaciton, Electrolytic, 500 uf, 25V
39	35254/24-060251	1	" 250 uf, 6V
40	39100/29-001	2	" Tantalum, 100 uf, 10V
41	35506/24-250100	2	" Electrolytic, 10 uf, 25V
42	35472/24-100050	2	" 5 uf, 16V
43	35508/24-250010	1	" l uf, 25V
44 45	34101/27-101104 32221/27-101224	16 1	
46	30332/28-101471	1	" Mylar, .22 uf " Mica, 470 pf
47	30101/28-101101	l	" 100 pf
48	30102/28-101221	Ĝ	" " 220 pf
49	71001/31-1N4001	6	Diode, 1N 4001
50	31-1N161:	2 2	Diode, 1N, 1612
51	71000/31-1N914		Diode, 1N 914
52	71020/32-1N5237	100	Diode, 1N 712 (or 1N 5237), 8.2V Zener
53 54	70009/34-2N5190 70000/34-2N3643		Transistor, 2N 5190
55	70000/34-2N3544 70001/34-2N3544		Transistor, 2N 3643 Transistor, 2N 3644
56	19100/19-808W4PC		Resistor, 10 Watt, 4 ohm
57	12103/11-0151	ī	" ½ Watt, 150 ohm
58	11270/19-839C2P7	1	" Carbon, ±5 %, % Watt, 2.7 ohm
59 "	11123/10-5123	1	" " " " 12K ohm
60	10101/10-0101	4	" ±10%, " 100 ohm
61	10151/10-0151	1 2	" " " 150 ohm
62 63	10221/10-0221 10271/10-0271	3	" " " 220 ONM
64	10331/10-0331	7	"
65	10102/10-0102	24	" IK ohm
66	10103/10-0103	2	" " " 10K ohm
67	10153/10-0153	2	"
68	10181/10-0181	1	" " " 180 ohm .
69	10472/10-0472	4	" " " 4.7K ohm
70 71	10273/10-0273 10473/10-0473	1	Z/K Onini
72	75103/75-916S	1 2	Nut, Hex, H6
73	75100/72-1610C		Screw, Pan Head, SS, #6-32 x 5/8
74	75101/75-056	777	Washer, Internal Star, #6
75	75102/75-016C	2	Washer, Flat, #6
76	75188/75-1408C	3	Screw, Machine, Pan Hd., #4-40 x ½", SS
77	75164/75-9145	3	Nut, Hex, #4-40
78 79	75194/75-054 75163/75-014S		Washer, Internal Tooth Lock, #4-40
	60000/69-001		Washer, Flat, #4-40 Switch, DPDT
81	81001/90-101		Crystal
82	83014/78-06001		Wakefield Heatsink
83	001925		Printed Circuit Board, Revision C
84	79-20102	7	Useco 2006B Terminals
85	79-58017	1 2 1	6 Pin Polarized Male P.C. Conn.
86	001992		Heatsink, Dipde
87	78-16002		Thermal Conductive Compound
88	57-216		Buss Wire, #16AWG, 1七" Long
89	75-050		Washer, Internal Tooth Lock, #10
90 91	75-910S 24-100105		Nut, Hex, #10-32 Capacitor, Electrolytic, 1 uf, 10V
92	10-0222		RESISTOP, CARBON, 10%, 1/4W, 2.2K OHM

P/L 001927 ASSEMBLY TITLE PIN PONG ELECTRONICS TRAY Page 1 of 1 PARTS LIST SPECIFICATION Drawn Checked Mech. Eng. Proj. Eng. Elec. Eng REV. leisure B Rev. Description Rev. Date Description Date Apprv. A PROD REL 10/7/7 3 REV PER ECN 893 10/21/74 \$ Item Part Number Qty. DESCRIPTION 1 001551 Transformer 1 2 42-70102 1 Transformer 1 Linefilter 3 90-3001 1 4 79-3201 Fuse Holder Fuse, 2A, Slo-Blo 5 46-20120 1 1 Interlock Switch 6 68-001 7 000268 1 Interlock Switch Bracket Screw, Sheet Metal, #6, Pan Hd., Phil., 3" 72-6608 20 8 9 1 Transformer Cover 001998 1 Staple 10 71-301 54-401 11. 1 Line Cord 12 002439 1 Harness 1 13 47-1001 Coin Counter Machine Screw, #8 x 15" 14 75-2824\$ 1 2 8-32 Nut 15 75-918S 16 75-018S 3 Washer, #8 17 A001995 1 Tray, Electronics 18 A001920 1 Harness, Voltage Selection 19* A001921-01 A/R Shorting Block, 95V 20* A001921-02 A/RShorting Block, 110V 21* A001921-03 Shorting Block, 220V (High Line) A/R 22* A001921-04 A/R Shorting Block, 220V (Low Line) 23 75-8808 14 Screw, Wood, Flat Hd., Phil., #8 x 3" Lg. A/R 24 78-25001 Cable Clamp 25 000871 1 Label 26 79-20101 1 Molex Male Pin 02-09-2011 27 79-58019 1 Molex Plug 03-09-2118 *Install Shorting Block per voltage required



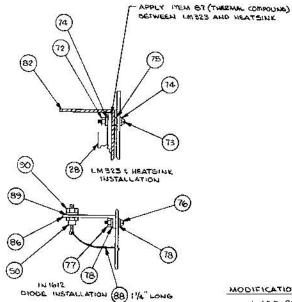


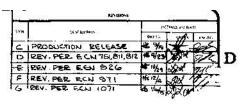
Job Title Dwg.P/L 001929 SWITCH ASSEMBLY PIN PONG 1. Phecification sheet 1 of 1 Drawn Cynthia Mech, Eng. Ren Rev. Checked Elec. Eng. Proj. Eng. Description Apprv. Rev. Apprv. Rev. Description A PREPROD REL 9/23/74 EC. Rev per ECN 916 10/2 PROD REL 11/7/74 B Qty. Item Part. No. Description 60013/60-0102 Switch, Push-button, Rundel (#R2) 1 1 Ring, Anti-Rotation (#SA 19) 2 60011/60-0301 1 Contact Block, SPST, N.O. Cap, Switch (Yellow), #AY 1 3 1 60012/60-0401 14 60014/60-0202 1 001819 Bracket, Mounting, Control



- 4. FOR 60 HZ , SEE P/L 001660-01. POR SOHE, SEE P/L 001660-02.
- [3] INTEGRATED CIRCUITS 86 (74107) AND 87 (7493) ARE LOADED FOR SOHZ OPERATION ONLY.
- 2. ALL TRANSISTORS ARE 2N3643.
- I. ALL DIODE ARE IN914

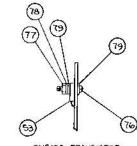
NOTES : UNLESS OTHERWISE SPECIFIED.





MODIFICATION LIST

- " ADD 220 of CAPACITOR BETWEEN PINS 5 AND 7 OF AI.
- 2.400 220 F CAPACITOR BETWEEN PINS 7 AND 13 OF CI.
- 3.00 CIRCUIT SIDE OF BOARD, CUT TRACE TO KT PIN 11 AND JUMPER TO ADJACENT TRACE AS SHOWN.
- 4. ADD 220 PT CAPACITOR BETWEEN PIN 1 OF AB AND GND 13455,



SOTSIGNAST OFICHS INSTALLATION

