



SERIES 5000 PARTS MANUAL



The Originator of Electronic Darts

- I. MAIN
CABINET
ASSEMBLY
- II. HARNESS
ASSEMBLIES
- III. TARGET
ASSEMBLY
- IV. BOARD
SEGMENTS
- V. MAIN
PC BOARD
ASSEMBLY
- VI. TARGET
INTERFACE
ASSEMBLY
- VII. LAMP BOARD
PC ASSEMBLY
- VIII. **POWER**
SUPPLY
CHASSIS
ASSEMBLY
- IX. PARTS NOT
SHOWN

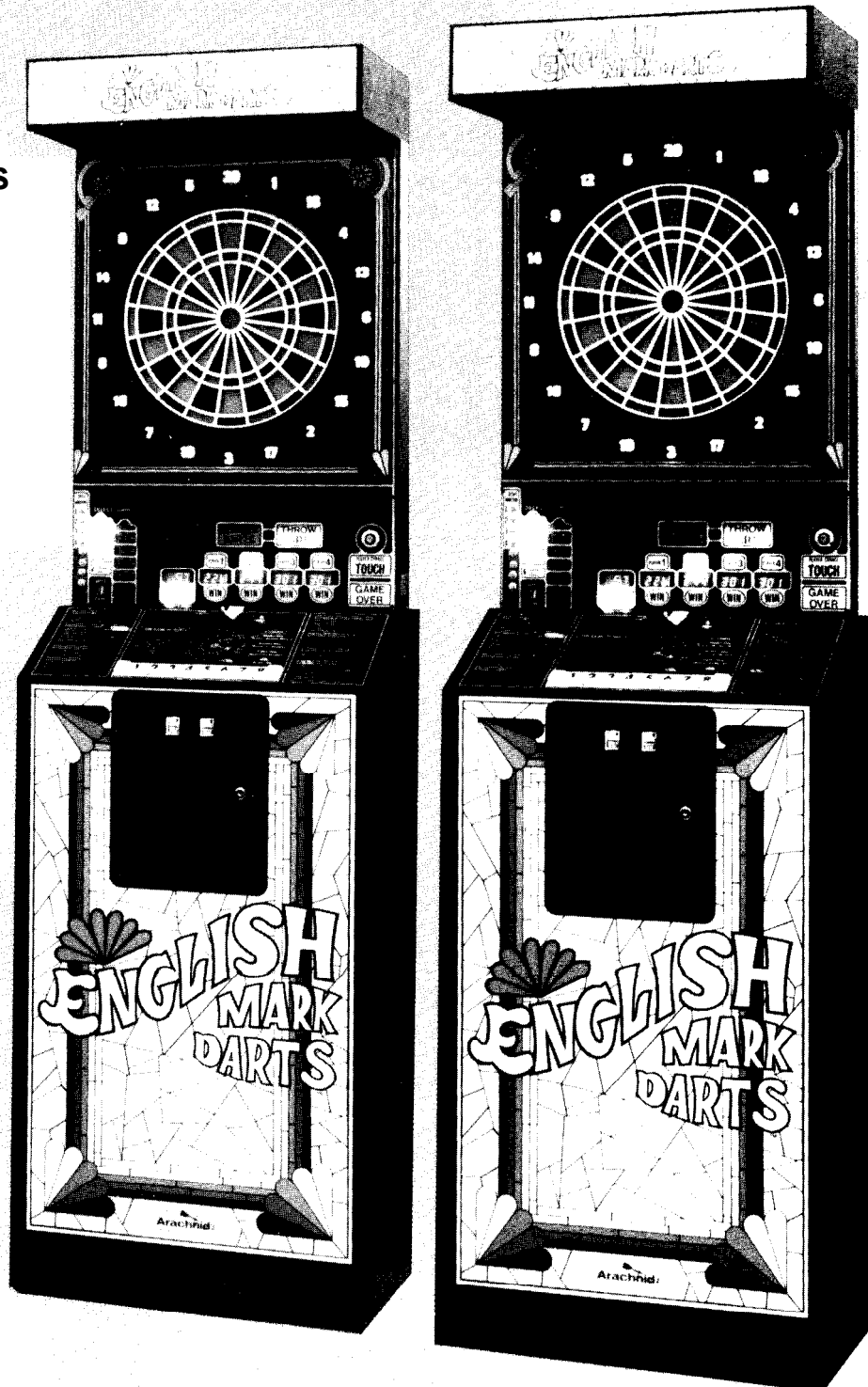
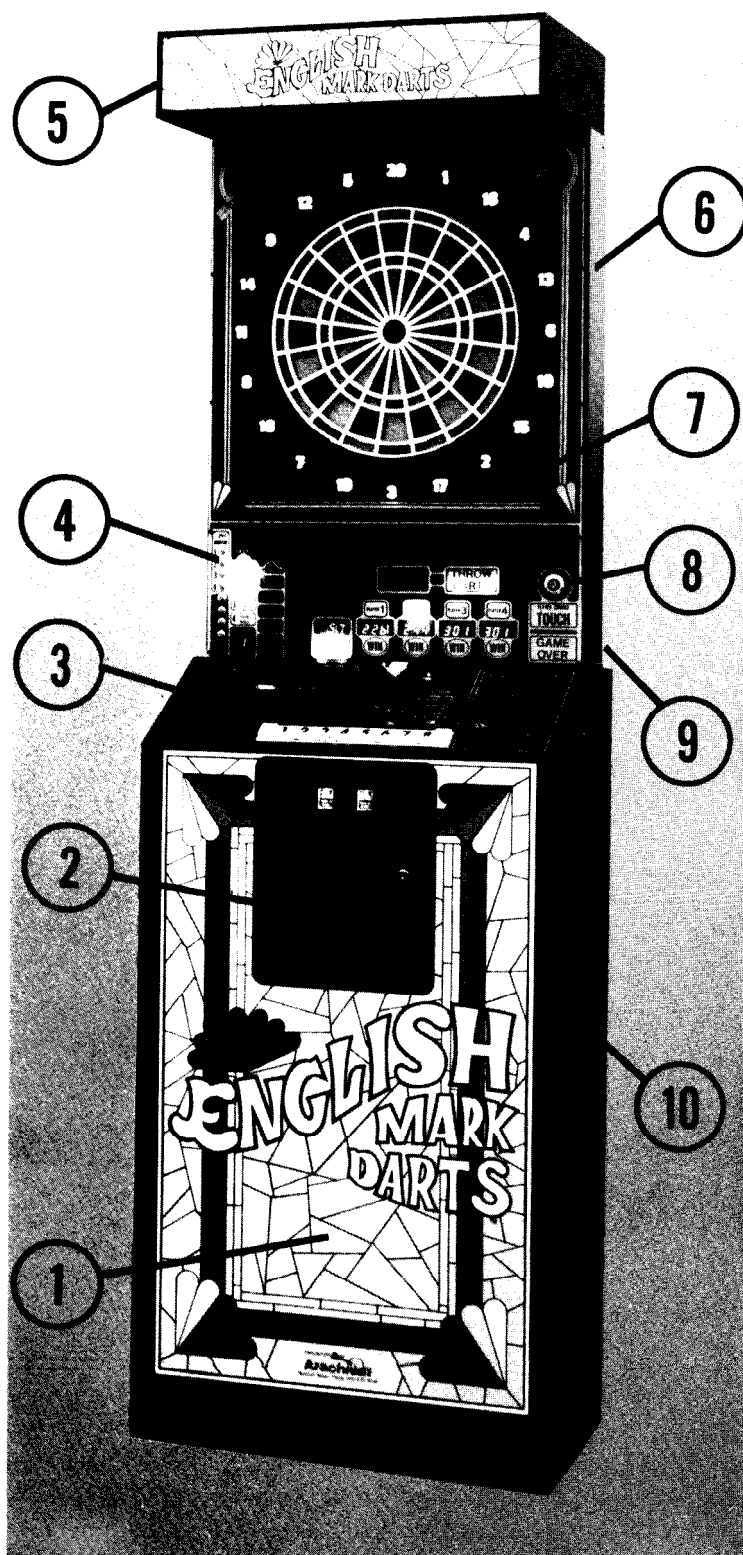


FIGURE 1



NOTE: The part numbers listed are the Arachnid part numbers. Please use these numbers when placing your order. Some descriptions are followed by a number in parentheses. This number is the quantity used in that assembly.

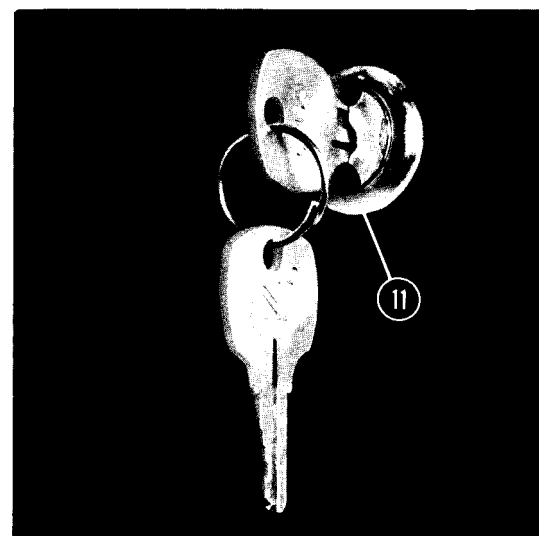


FIGURE 2

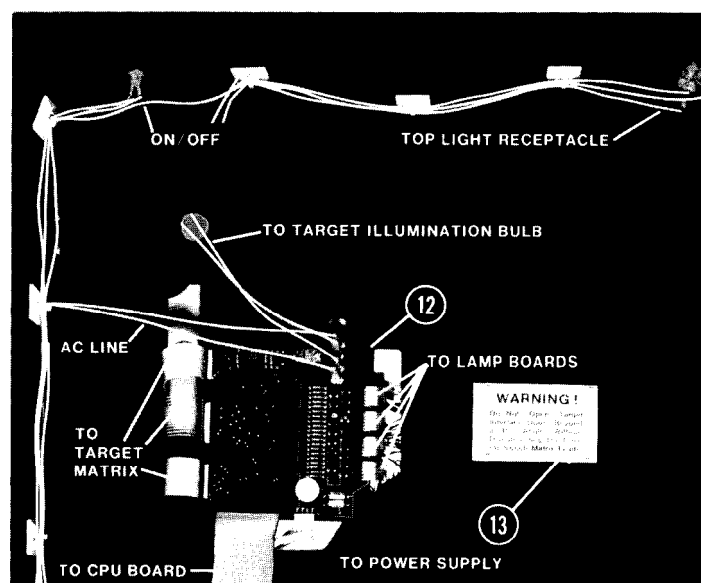


FIGURE 3

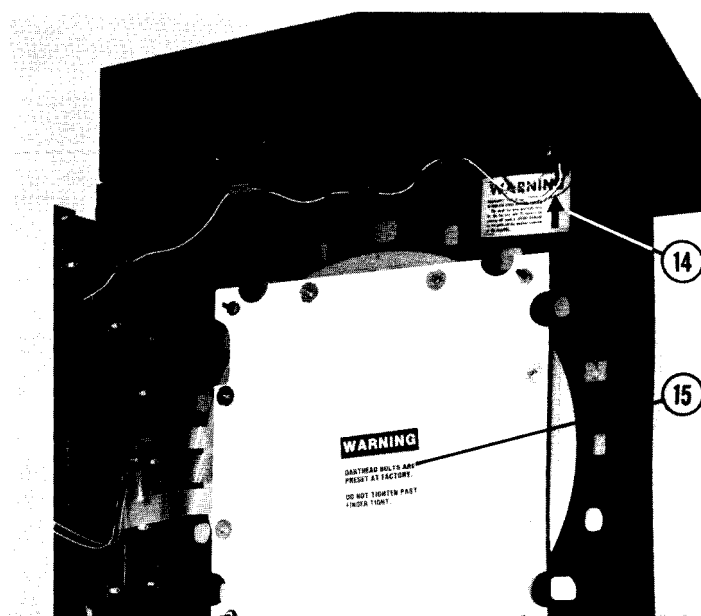


FIGURE 4

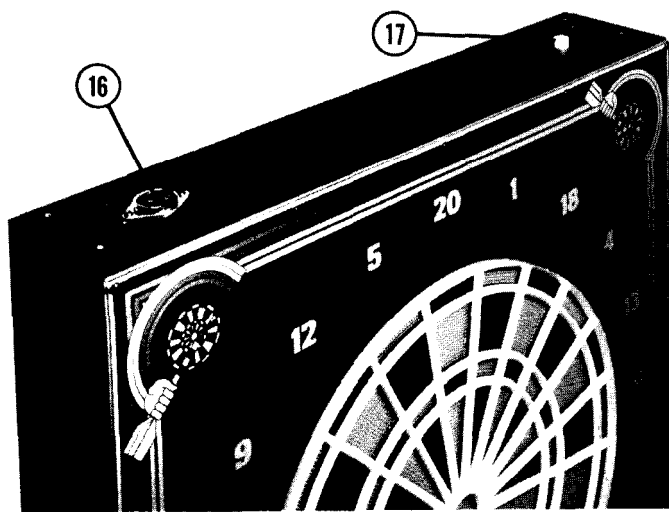


FIGURE 5

I. MAIN CABINET ASSEMBLY

Fig. #	Item #	Part No.	Description
1	1	1106	Bottom Decal - Yellow
1	2	5004	Coin Door With Cash Box
1	3	242	Instruction Panel - English
1	4	710	Game Select Switch (8)
1	5	5018	Top Light Assembled
1	6	17028	Cabinet Top - Unassembled
1	7	232	Top Caption Panel
1	7	5007	Top Caption Panel With Push Buttons And Wire Harness
1	8	711	Player Change Button Only
1	8	716	Player Change Button Assembly
1	9	1120	Serial No. Label
1	10	1702A	Cabinet Bottom - Unassembled
2	11	810	Back Door Lock
3	12	5002	Target Interface Board (1)
3	13	1130	Target Interface Door Warning
4	14	1112	Warning Label - Electrical
4	15	1128	Darthead Bolts Warning Label
5	16	818	Top Light Receptacle
5	17	708	ON/OFF Switch
6	18	224	Top Lamp Panel
6	19	842	Top Light Cord - 3 Ft.
6	20	808	40 Watt Round Bulb
6	21	845	Light Socket For Round Bulb
7	22	1709	White Baffle For Top Light
7	23	831	Bulb - Sylvania 7C7 (3)
7	24	817	Sockets - Top Light Bulbs (3)
8	25	1753	Coin Mechanism - U.S.
8	25	1751	Coin Mechanism - Canadian
8	26	5010	Coin Door Harness
8	27	1716	Coin Box
8	28	506	Capacitor -.1uf 16V - Coin Door (2)

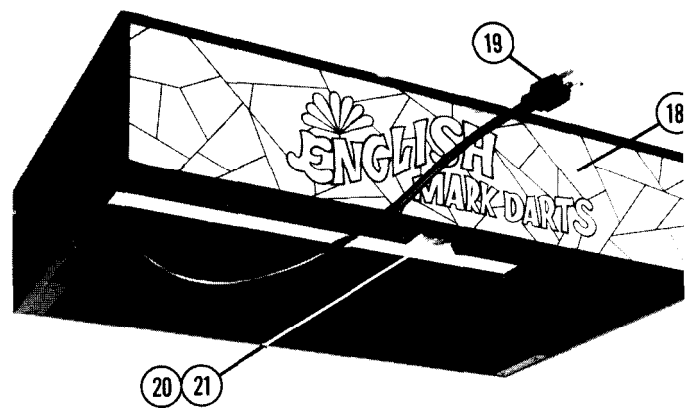


FIGURE 6

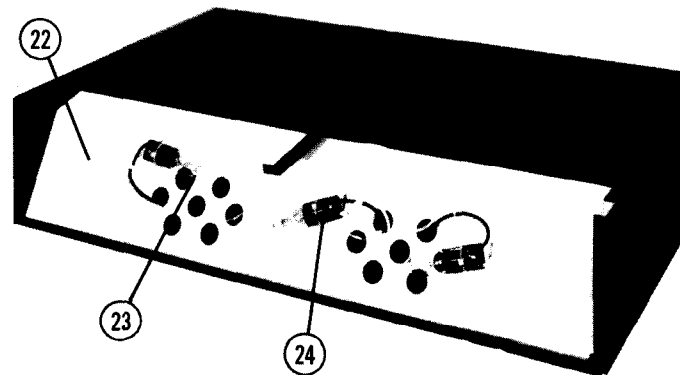


FIGURE 7

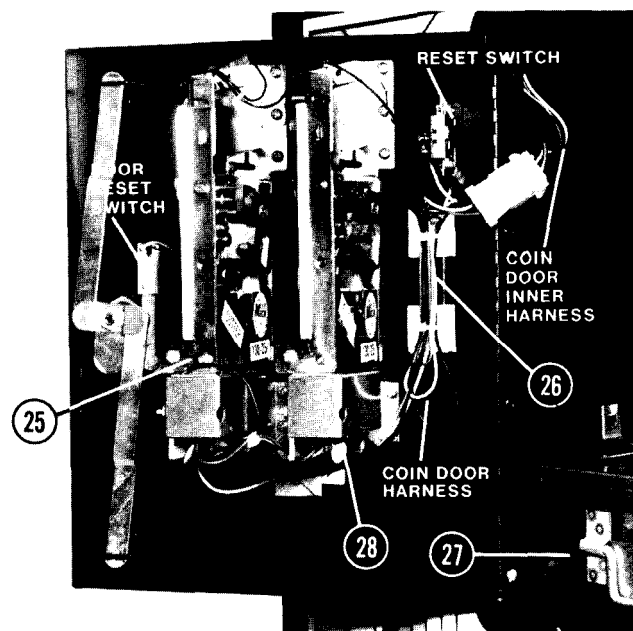


FIGURE 8

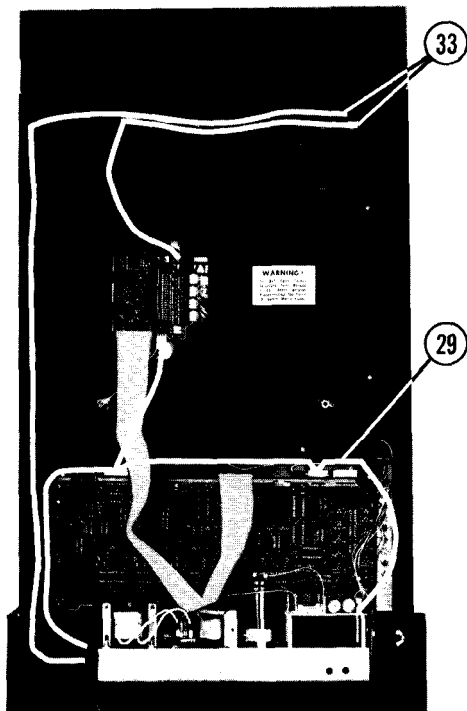


FIGURE 9

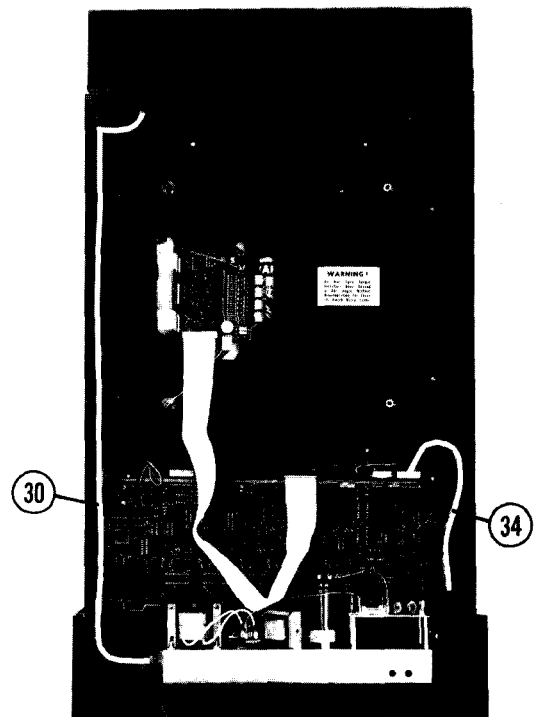


FIGURE 10

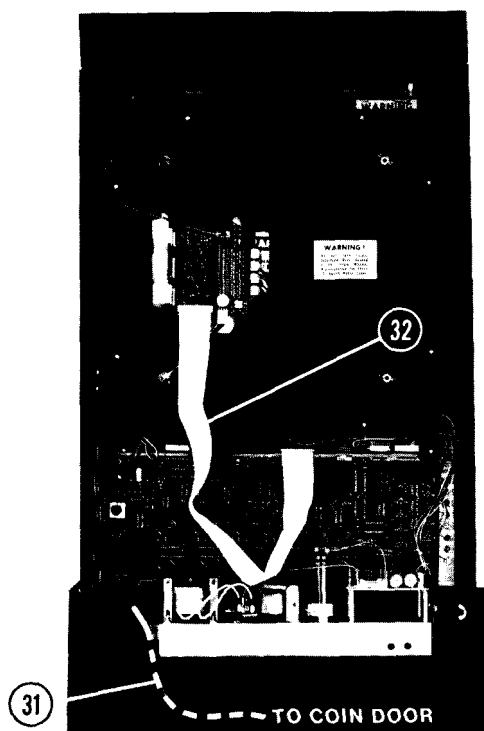


FIGURE 11

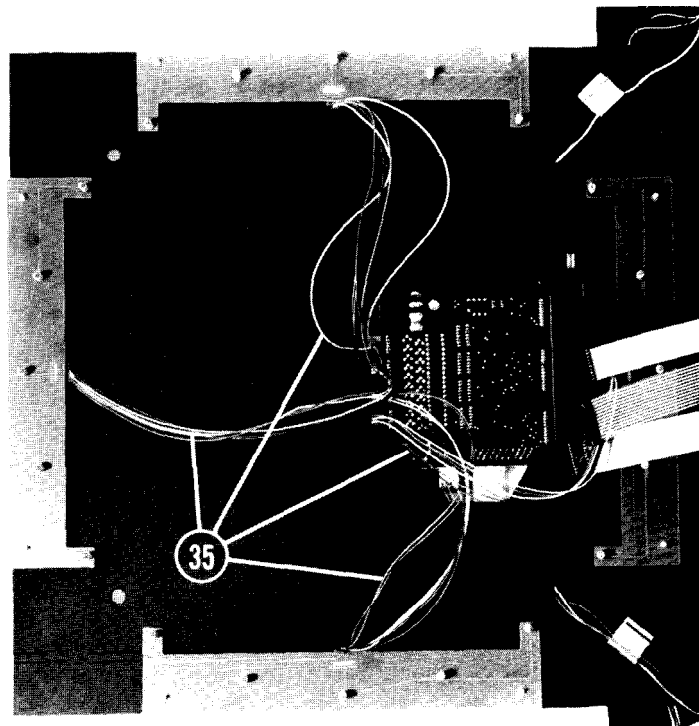


FIGURE 12

II. HARNESS ASSEMBLIES

Fig. #	Item #	Part No.	Description
9	29	5008	Main Game Harness
10	30	5009	A/C Harness
11	31	5011	Coin Door Inner Harness
11	32	5013	40 Pin Ribbon Cable Harness
9	33	5014	Receptacle Harness
10	34	5015	Game Select Harness
12	35	5016	Lamp Board Harness (4)
13	36	5012	4" Speaker And Wire Harness

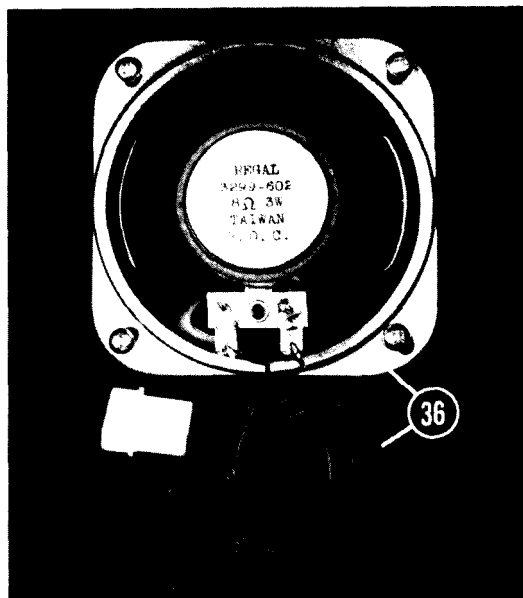


FIGURE 13

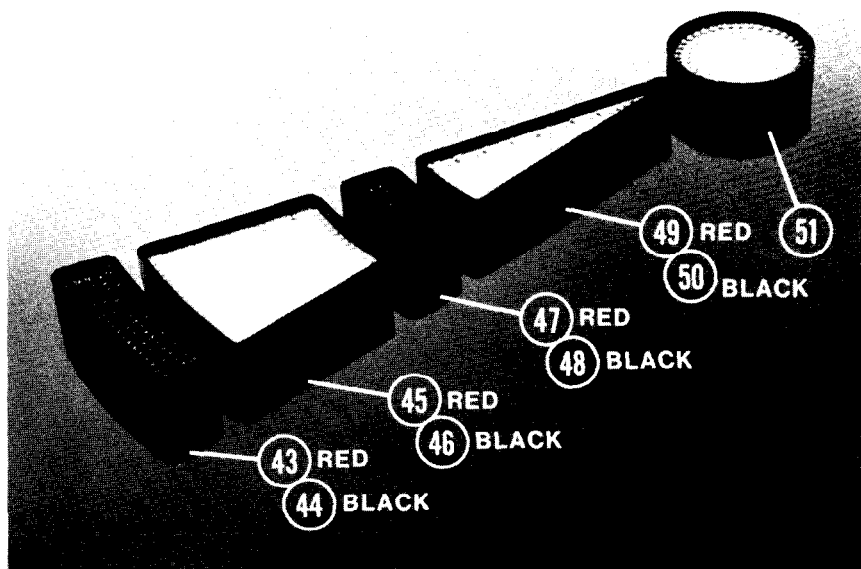


FIGURE 15

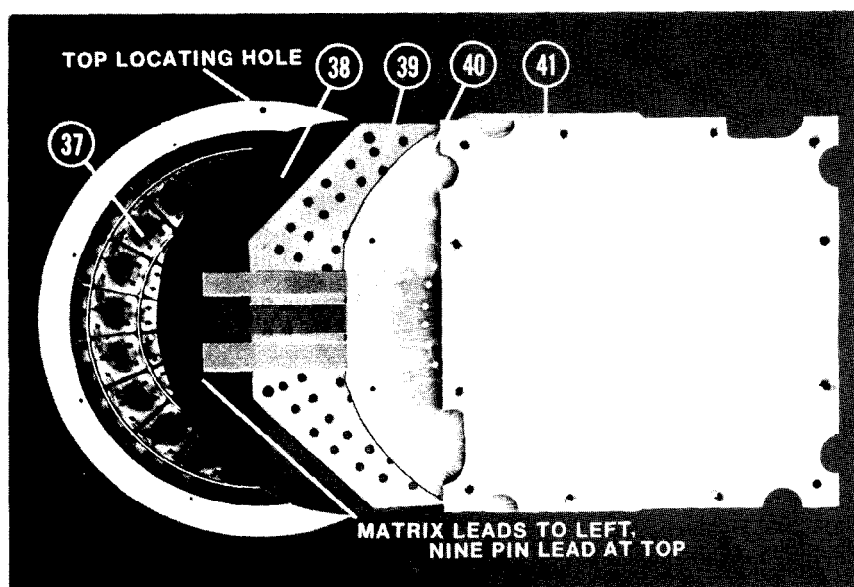


FIGURE 14



FIGURE 14A

III. TARGET ASSEMBLY

Fig. #	Item #	Part No.	Description
14	37	1600	Spider w/o Segments
14	38	822	Rubber Damper For Dart Head
14	39	828	.020" Gasket For Dart Head
14	40	234	Switch Matrix For Dart Head
14	41	1650	Target Back
14A	42	5006	Dart Head Assembly - Complete

IV. BOARD SEGMENTS

Fig. #	Item #	Part No.	Description
15	43	6001	A Segment - Red - Double
15	44	6006	A Segment - Black - Double
15	45	6003	C Segment - Red - Single
15	46	6007	C Segment - Black - Single
15	47	6004	D Segment - Red - Triple
15	48	6008	D Segment - Black - Triple
15	49	6005	E Segment - Red - Pie Single
15	50	6009	E Segment - Black - Pie Single
15	51	6002	B Segment - Red - Bulls Eye

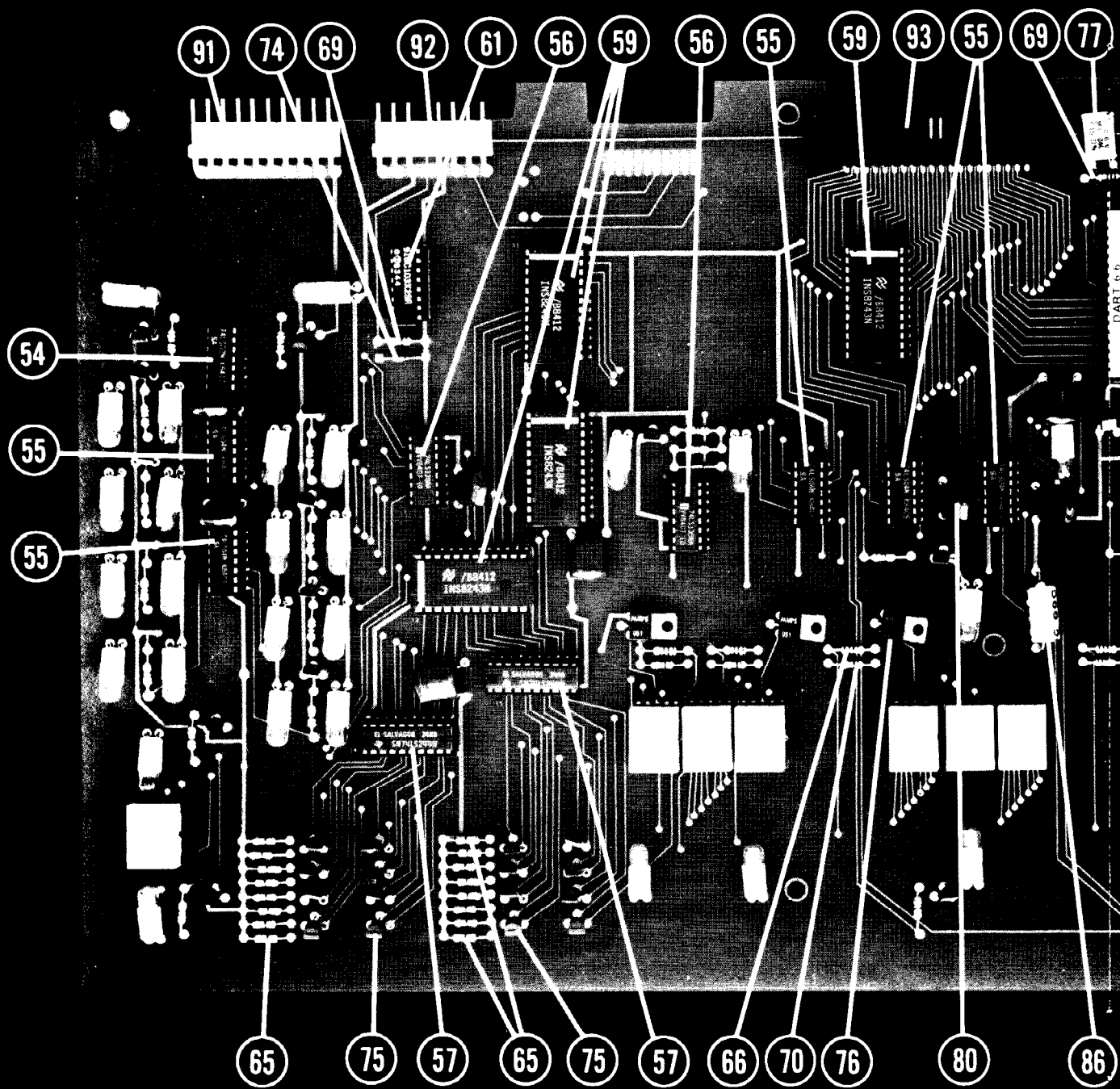
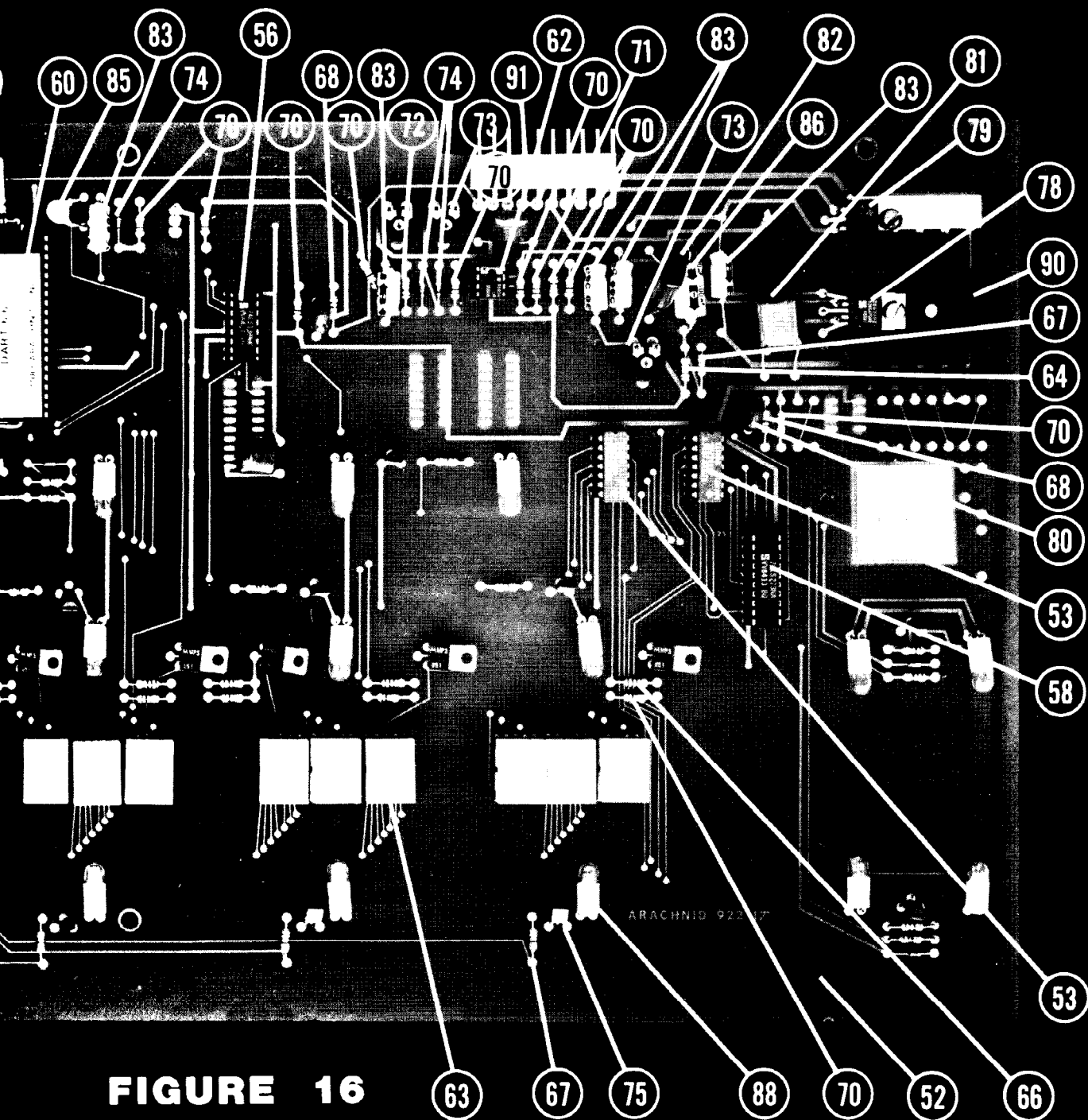
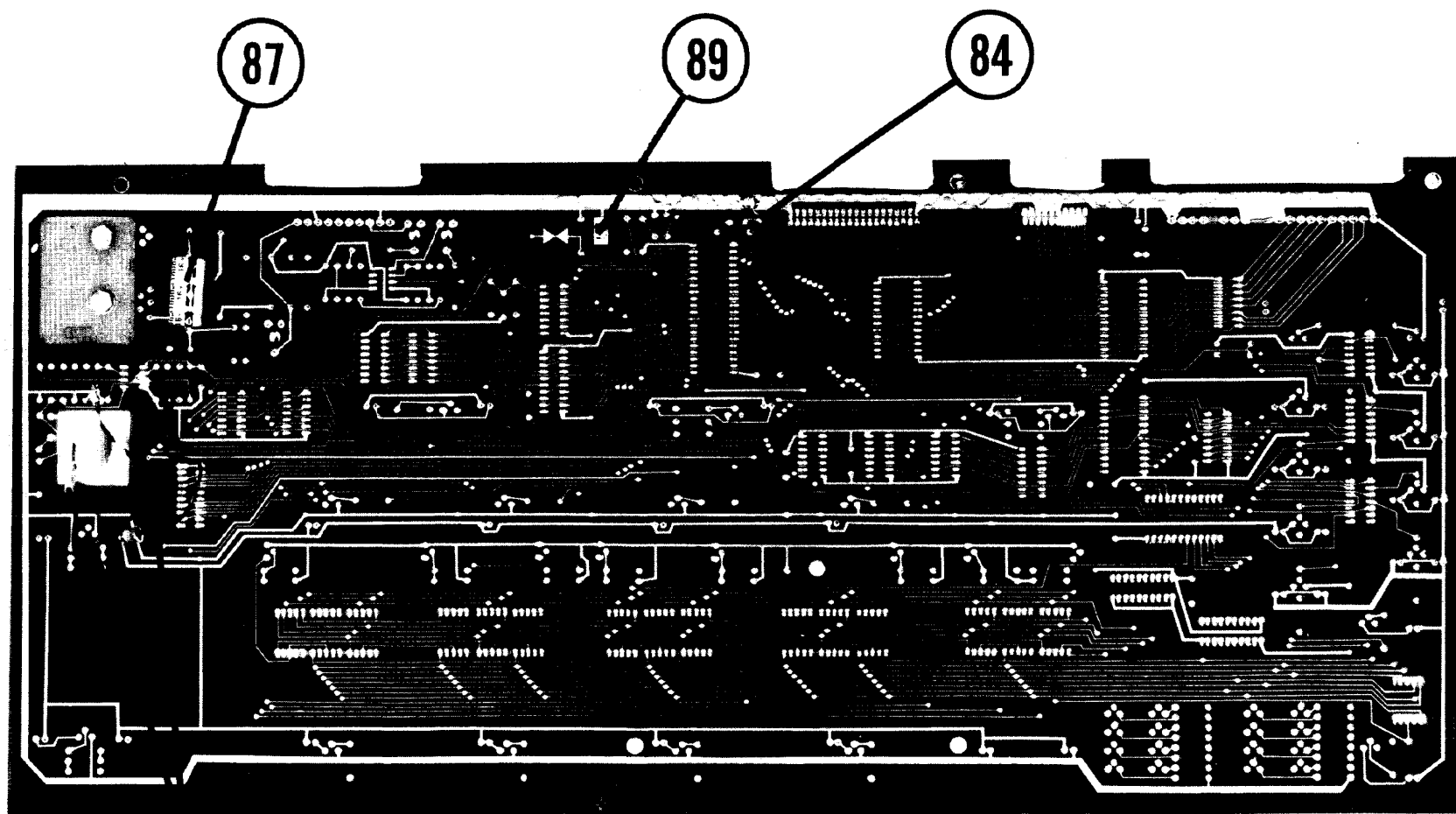


FIGURE 16





TO PLAY  R CHANGE SWITCH

V. MAIN PC BOARD ASSEMBLY

Fig. #	Item #	Part No.	Description
16	52	5001	Main PC Board Complete
16	53	106	SN7407 (2)
16	54	124	SN74LS02 (2)
16	55	126	SN74LS04 (5)
16	56	128	SN74LS138 (3)
16	57	130	SN74LS244 (2)
16	58	132	SN74LS273 (1)
16	59	134	SN8243 (4)
16	60	136	8749H Microprocessor (1)
16	61	142	Resistor Network (1)
16	62	150	LM358P (1)
16	63	168	LED Number Display (16)
16	64	301	2.2 ohm - 1/4 w (1)
16	65	304	39 ohm - 1/4 w (16)
16	66	308	100 ohm - 1/4 w (14)
16	67	318	220 ohm - 1/4 w (28)
16	68	324	560 ohm - 1/4 w (2)
16	69	330	1k ohm - 1/4 w (1)
16	70	338	10k ohm - 1/4 w (32)
16	71	346	51k ohm - 1/4 w (1)
16	72	360	620k ohm - 1/4 w (1)
16	73	376	10k Pot. - Horizontal (3)
16	74	404	1N4148 or 1N914 Diode (8)
16	75	412	2N4400 or MPS2222 Transistor (41)
16	76	416	MPSU51 Transistor (8)
16	77	422	6.0 Mhz Crystal (1)
16	78	426	LM383T Audio Amp. (1)
16	79	428	LM7815CT Regulator (1)
16	80	506	Capacitor - .1uf 16V (15)
16	81	510	Capacitor - .22uf 16V (1)
16	82	512	Capacitor - .33uf 16V (1)
16	83	518	Capacitor - 1uf 50V (5)
17	84	525	Capacitor - 5pf 50V (1)
16	85	526	Capacitor - 15pf 100V (1)
16	86	536	Capacitor - 1 00uf 16V (2)
17	87	540	Capacitor - 1000uf 16V (1)
16	88	702	Lamp - CM7373 (40)
17	89	706	Slide Switch - Test Mode (1)
16	90	1002	Heat Sink - Audio (1)
16	91	675	10 Pin Connector (2)
16	92	673	8 Pin Connector (1)
16	93	687	40 Pin Connector (1)

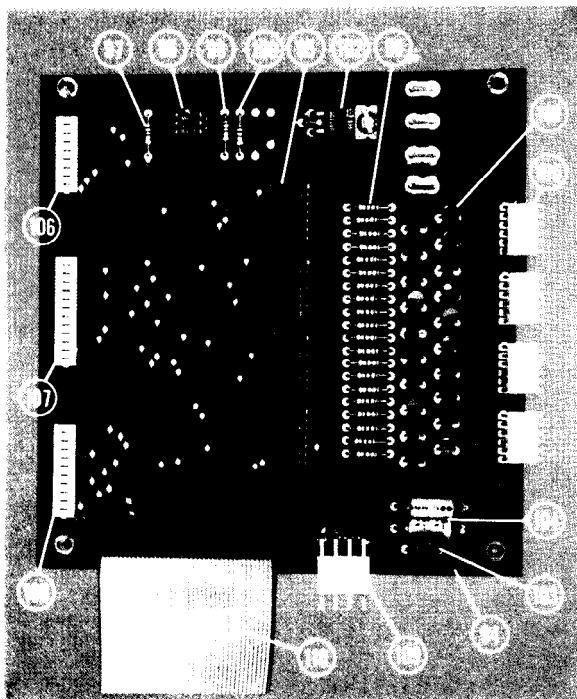


FIGURE 18

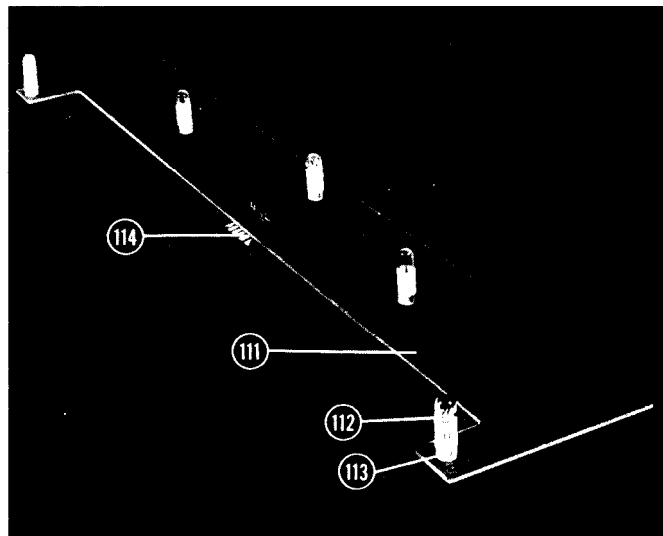


FIGURE 19

VI. TARGET INTERFACE ASSEMBLY

Fig. #	Item #	Part No.	Description
18	94	5002	Target Interface PC Board Assembly With Cable
18	95	126	74LS04 (4)
18	96	144	MOC 3030 (1)
18	97	310	120 ohm - 1/4 w (1)
18	98	316	180 ohm - 1/4 w (1)
18	99	318	220 ohm - 1/4 w (21)
18	100	330	1k ohm - 1/4 w (1)
18	101	412	2N4400 or MPS2222 Transistors (20)
18	102	420	SC146D Triac 6 amp (1)
18	103	502	Capacitor - .1 uf 16V (1)
18	104	518	Capacitor - 1 uf (2)
18	105	641	Connectors - 6 Pin - To Lamp Board (4)
18	106	647	Connector - Switch Matrix - 9 Pin (1)
18	107	651	Connector - Switch Matrix - 13 Pin (1)
18	108	649	Connector - Switch Matrix - 11 Pin (1)
18	109	671	Connector - Power Supply (1)
18	110	5013	40 Pin Cable Assembly (1)

VII. LAMP BOARD PC ASSEMBLY

Fig. #	Item #	Part No.	Description
19	111	5003	Lamp Board Assembly Complete (4)
19	112	703	CM7373 Lamp (20)
19	113	704	Socket Only For CM7373 (20)
19	114	641	Connector (4)

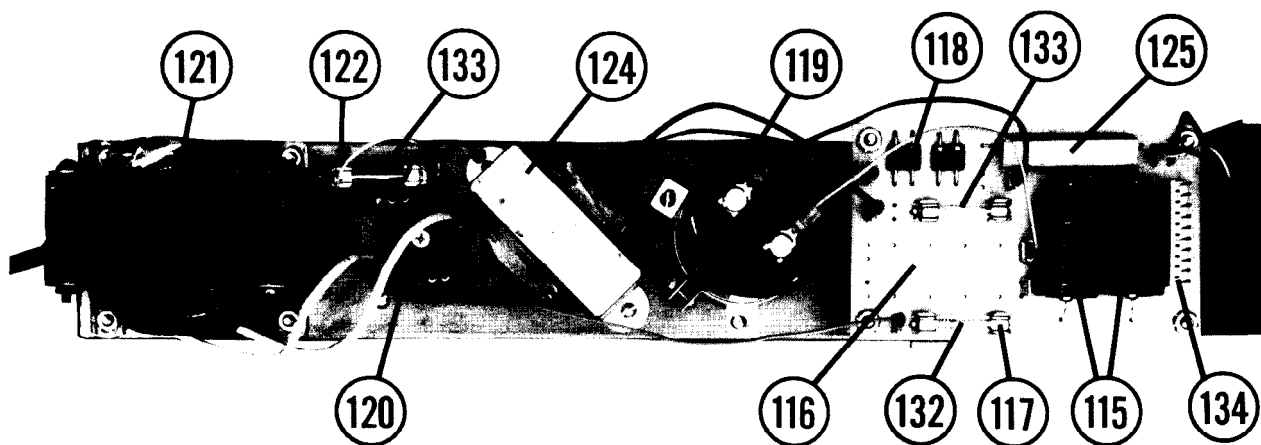


FIGURE 20

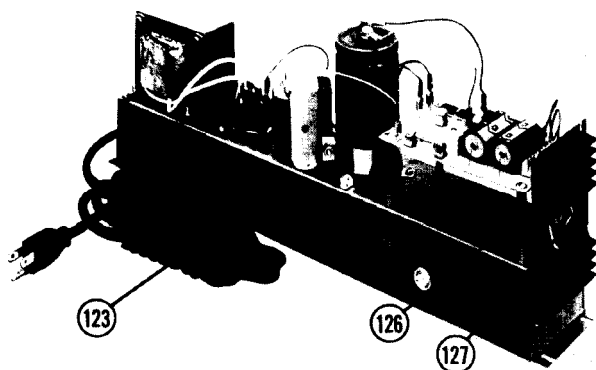


FIGURE 21

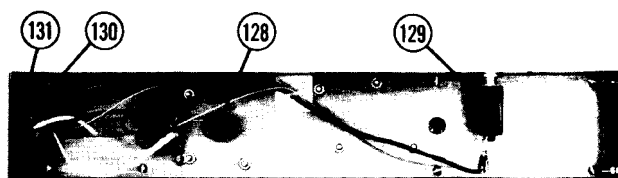


FIGURE 22

VIII. POWER SUPPLY CHASSIS ASSEMBLY

Fig. #	Item #	Part No.	Description
20	115	544	Capacitor - 4700uf 50V (2)
20	116	5005	Power Supply PC Board Complete
20	117	603	PC Mount Fuse Clips (4)
20	118	408	MR501 Diode (4)
20	119	546	Capacitor - 18,000uf 25V (1)
20	120	170	Bridge Rectifier (1)
20	121	1032	Transformer - Main (1)
20	122	601	Fuse Block - Single (1)
21	123	840	Power Cord - 12 Ft. (1)
20	124	1030	Transformer - Audio Power Supply (1)
20	125	382	1.5 ohm - 10 w (1)
21	126	1004	Heat Sink (1)
21	127	428	LM323K Regulator (1)
22	128	418	V150 Varistor (1)
22	129	602	3A Circuit Breaker (1)
22	130	633	Connector - 6 Pin Chassis Mount (1)
22	131	1051	Strain Relief (1)
20	132	605	Fuse - 7 1/2 Amp (1)
20	133	610	Fuse - 3/4 Amp (2)
20	134	677	Connector - 10 Pin (1)

IX. PARTS NOT SHOWN

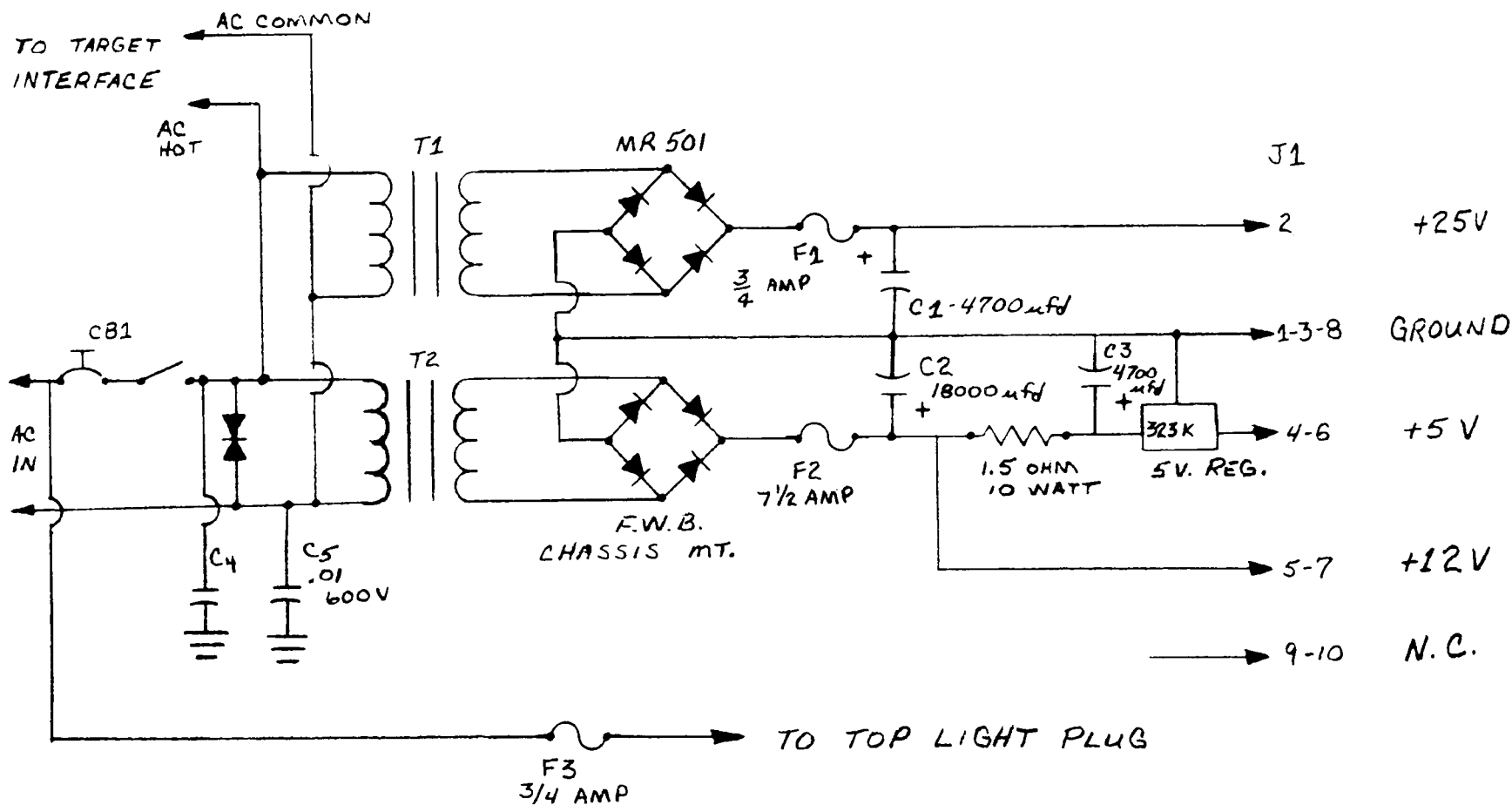
Part No.	Description
984	Romex Clamp (Top Light)
1920	Target Interface Schematic
1924	Power Supply Schematic
1928	Main CPU Schematic (Sheet 1)
1928A	Main CPU Schematic (Sheet 2)
1024	Ty-rap Mounting Clamp
1020	P-Clip (Power Cord Hold Down)



by  **Arachnid** TM

The Originator of Electronic Darts

6421 Material Avenue
Post Office Box 2901
Rockford, Illinois 61132-2901
800/435-8319 or 815/654-0212 in Illinois



ARACHNID INC.
208 N. MADISON
ROCKFORD IL 61104

SCALE:

APPROVED BY:

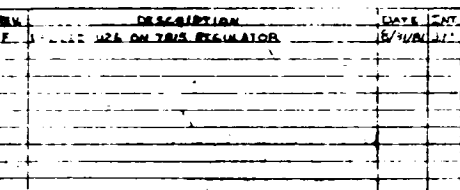
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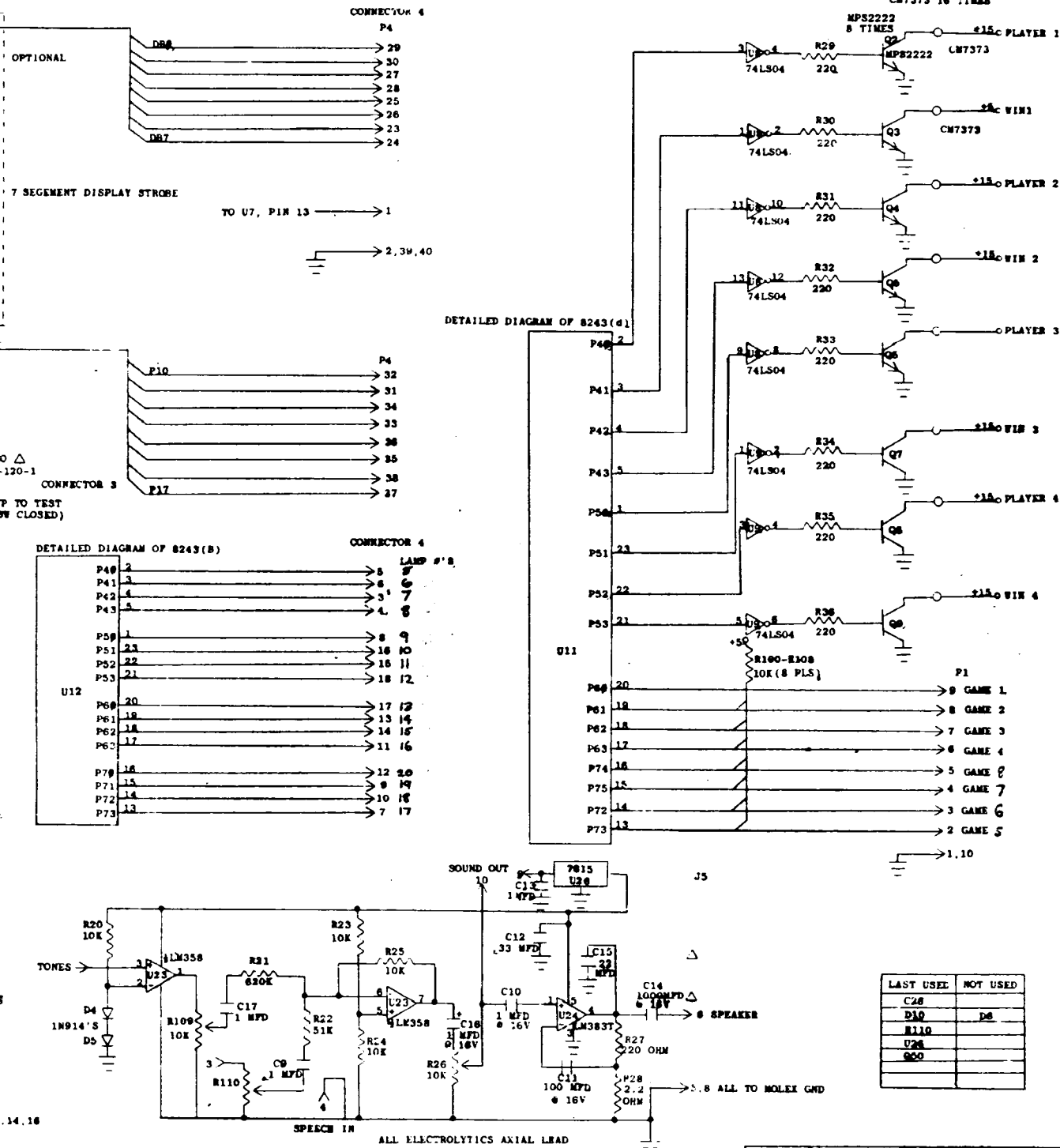
DATE: 4-30-84

REVISED

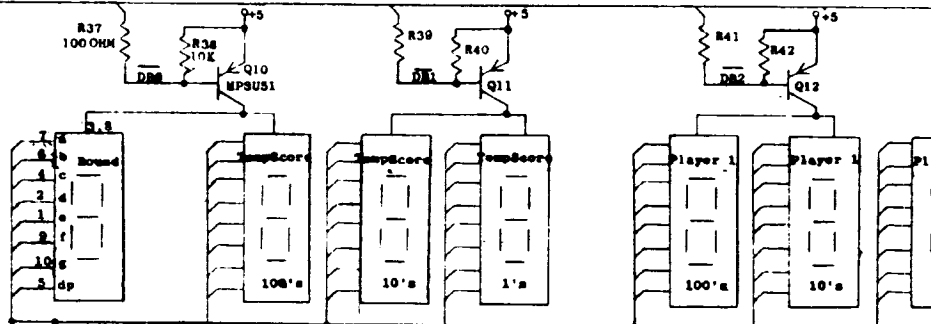
5000 SERIES POWER SUPPLY

DRAWING NUMBER

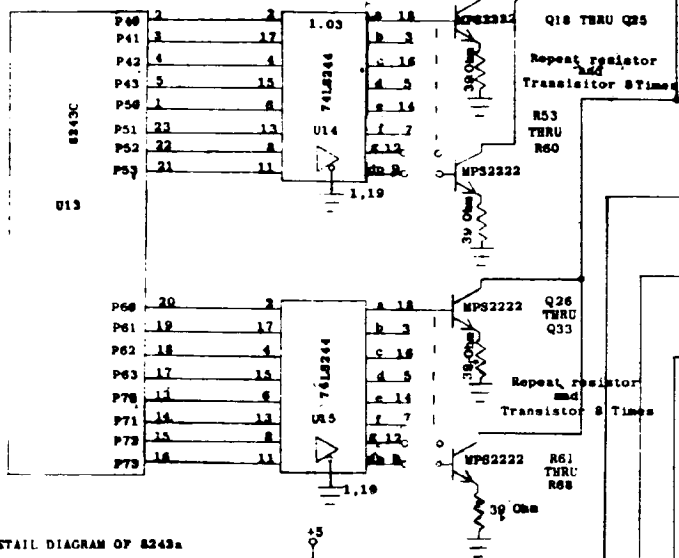




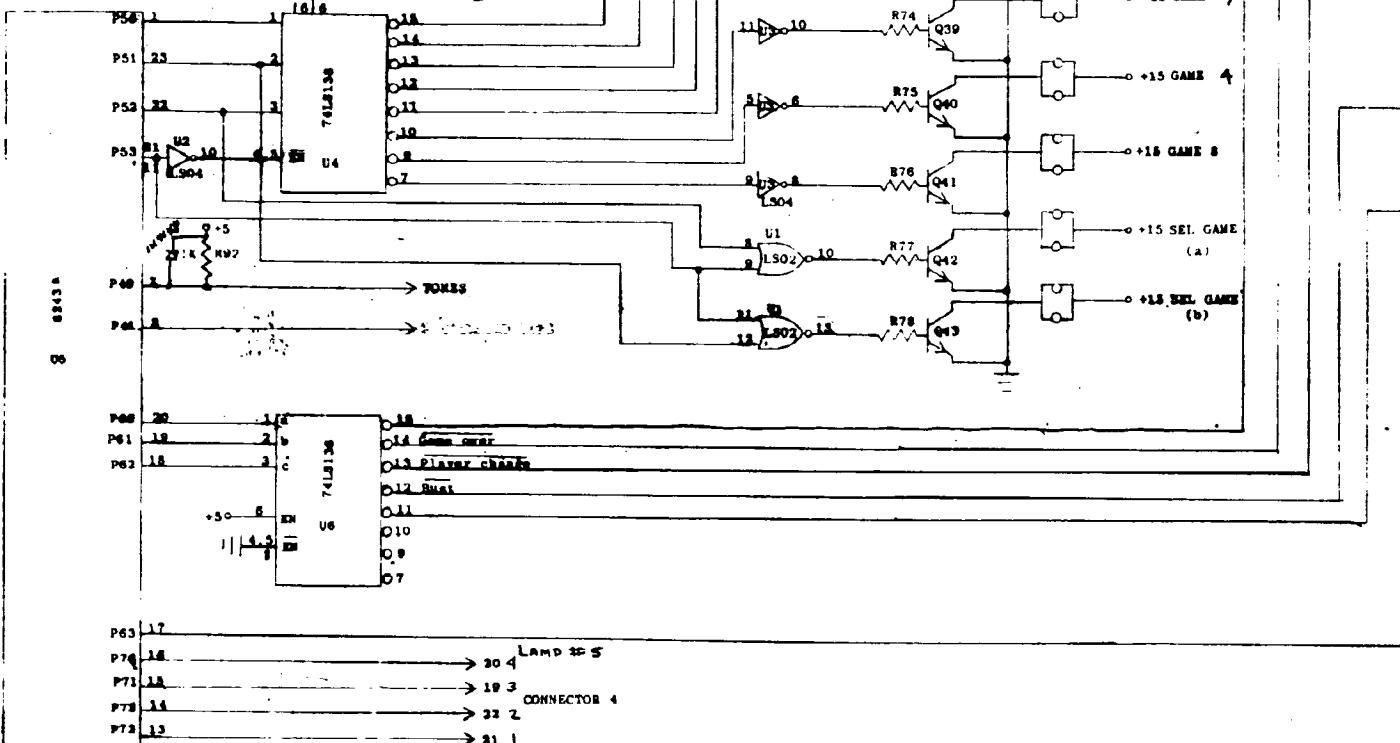
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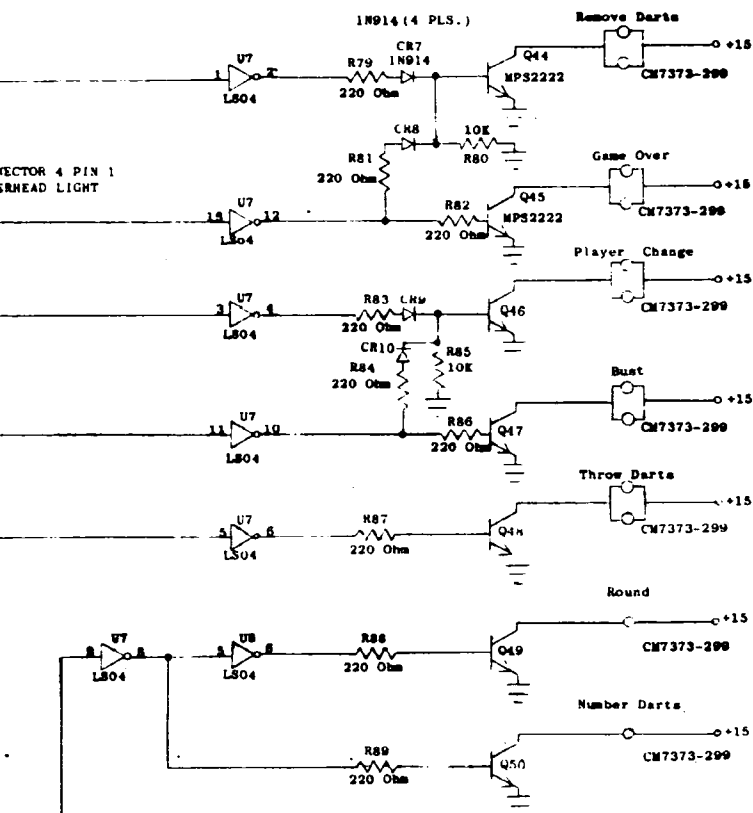
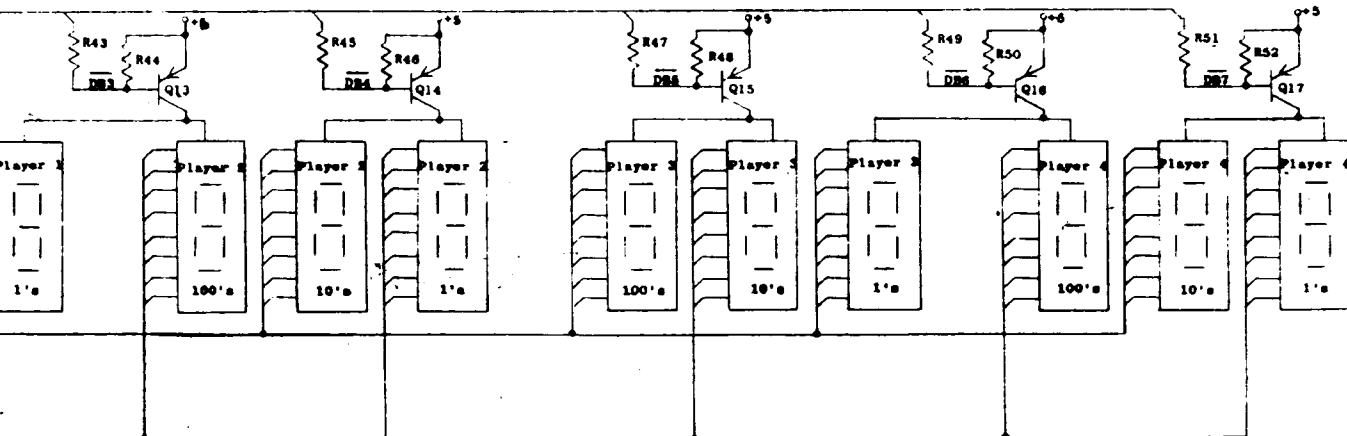


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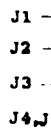
DRAWING #38-0004: SCHEMATICS, 5000 SERIES

NAME	SHEET	REVISION	ORIGINAL DRAWING SIZE	NEGATIVE SIZE	REDUCTION SIZE
TARGET INTERFACE	1 of 1		C		
	1 of 1	C	C		
	1 of 1	D	C		B
POWER SUPPLY	1 of 1		A	A	
MAIN BOARD	1 of 2		D		
	2 of 2		D		
	1 of 2	F	D	A	
	2 of 2	F	D	A	
	1 of 2	G	D		B
	2 of 2	G	D		B

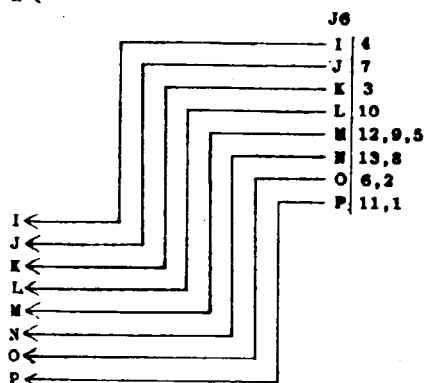
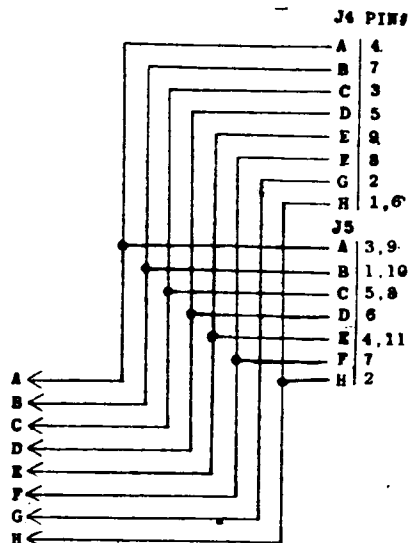
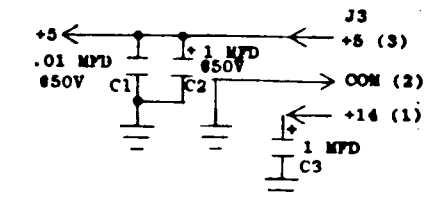
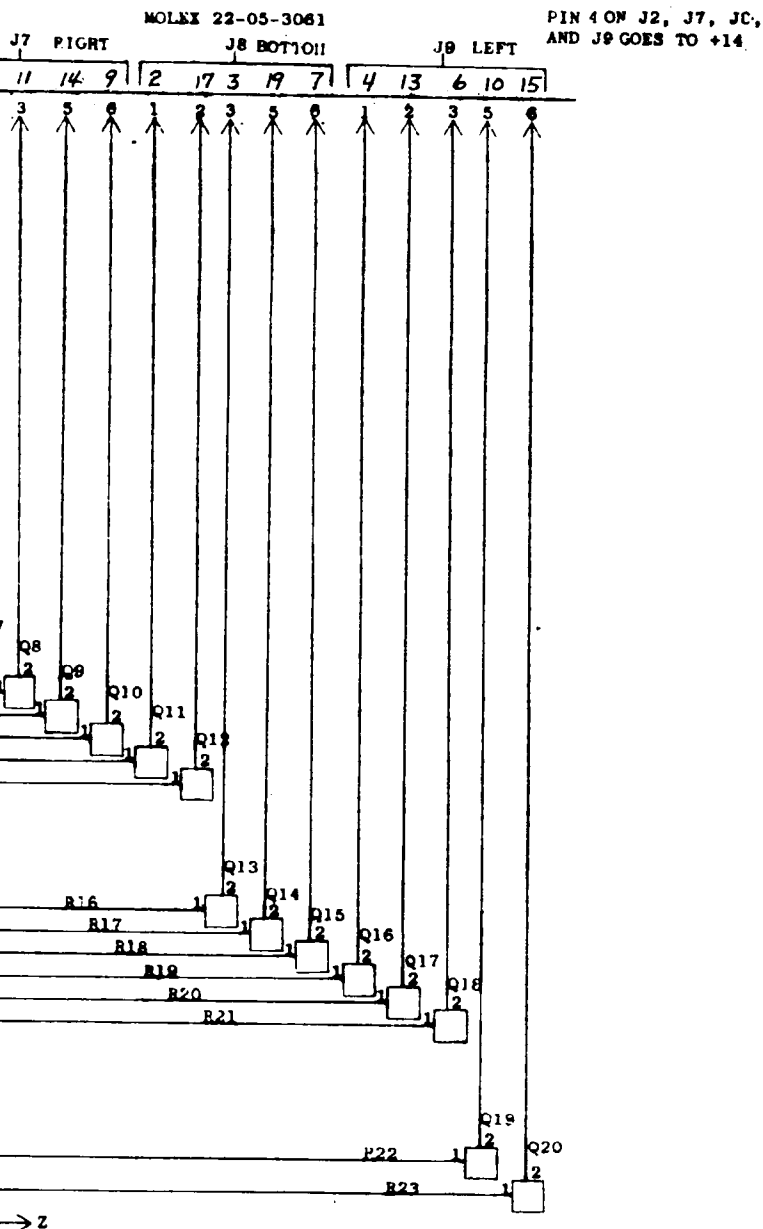
MAIN CPU

ARABICID		SCHEMATIC	
SCALE: 1/1	APPROVED BY:	DRAWN BY: J.E.	
DATE: 9/4/90		REVISION:	
MAIN BOARD, 5000 SERIES SHT 2 of 2			
DT-5000-01		REV 17 00	

38-0004



FLY	DESCRIPTION	DATE	INT
A	CHANGED PIN #S ON ECNN, 11	2/6/82	JM
B	CHANGED " " " " " " AND CMUITE ? PIN #S (415) ON ICE	9/1/82	JM
C	CHANGED PIN #S ON ECNN, 12 AND 13	2/6/82	JM



DRAWING 138-0004: SCHEMATICS, 5000 SERIES

NAME	SHEET	REVISION	ORIGINAL DRAWING SIZE	NEGATIVE SIZE	REDUCTION SIZE
TARGET INTERFACE	1 of 1		C		
	1 of 1	C	C		
	1 of 1	D	C		B
POWER SUPPLY	1 of 1		A	A	
MAIN BOARD	1 of 2		D		
	2 of 2		D		
	1 of 2	F	D	A	
	2 of 2	F	D	A	
	1 of 2	G	D		B
	2 of 2	G	D		B

- J1 -- SCOTCHFLEX 3418-0000T PCB 40 PIN CONNECTOR
 J2 -- MOLEX 6373 SERIES 40 CIRCUIT
 J3 -- MOLEX 2373 SERIES 3 CIRCUIT
 J4, J5, J6 -- MOLEX 4094 SERIES
 (OR EQUIVELANT)

ARACHNID 502-C		
SCALE: N/A	APPROVED BY:	DRAWN BY J.M.
DATE: 10-16-80		REVISED
SCHEMATIC 5000 SERIES TARGET INTERFACE - REVISION D		
DT-5000-03		DRAWING NUMBER 828-10