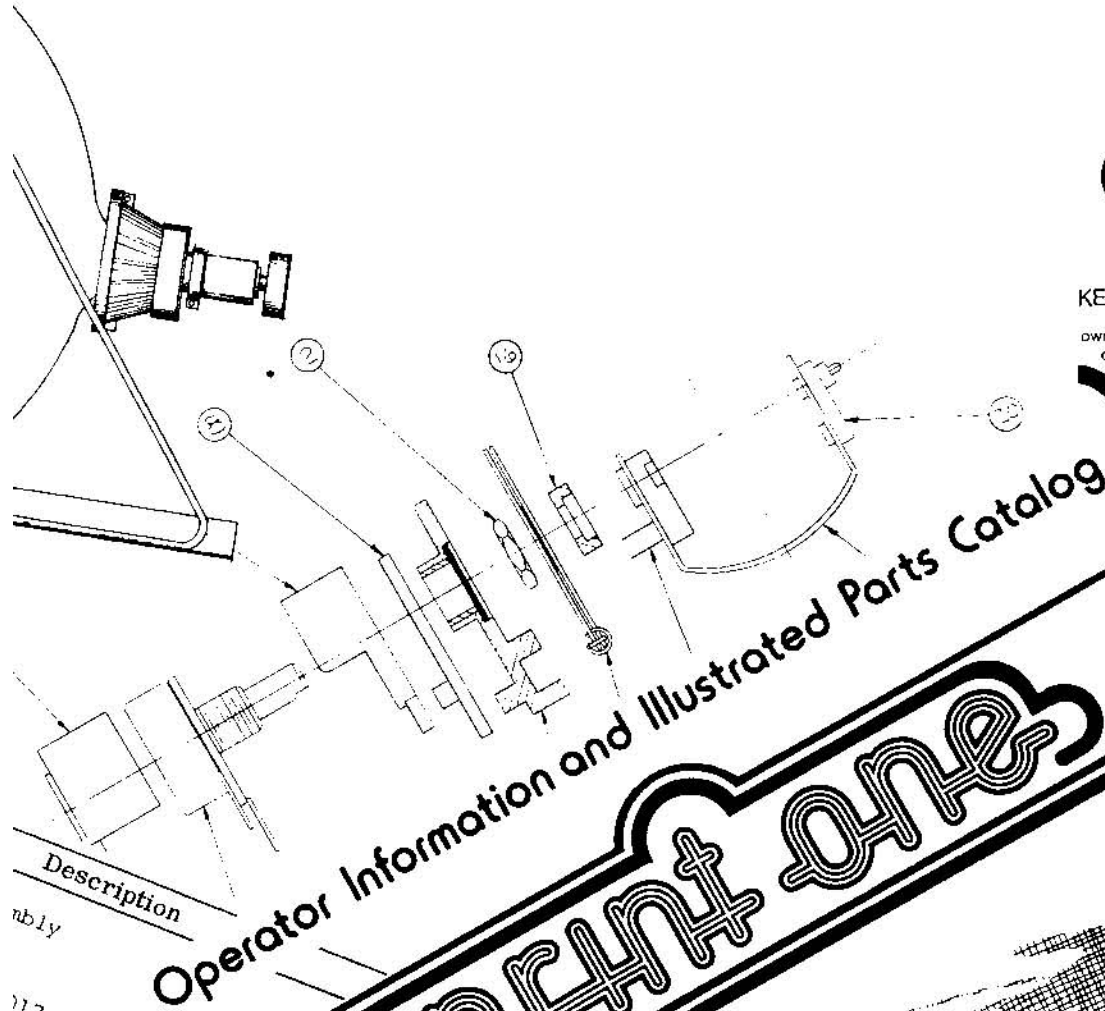KEE GAMES
a wholly
owned subsidiary
of Atari, Inc.

Operator Information and Illustrated Parts Catalog

sprint one

Description

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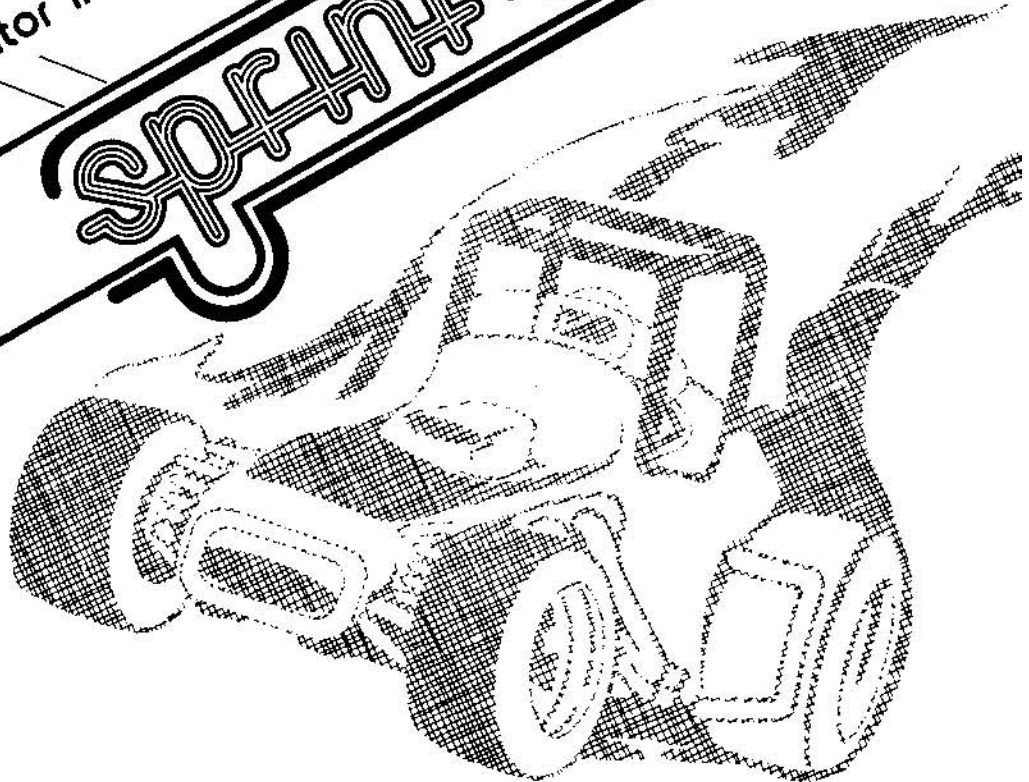
350-020
50-021

/8 I.D. x .025

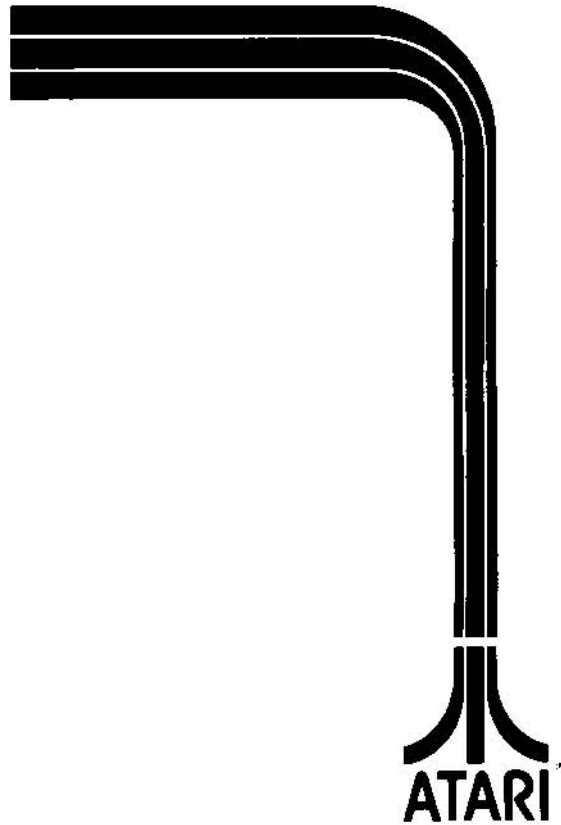.D. x .005 Thk

Sprint One™
Operator Information and Illustrated Parts Catalog

ATARI®

Table of Contents

Illustrated Parts Catalog

OPERATOR OPTIONS

Options of the Sprint One™ game offer maximum player appeal for each game location. These options are listed in Table 1. They are preset for a certain game structure during production. To determine how the switches have been set for your game, compare the TV monitor viewing screen during the attract mode with the information in Table 1.

In order to change the toggle positions of the switch assembly and set the desired options, the printed circuit board (PCB) must be removed according to the following procedure:

1. Unplug the game. Unlock and open the rear access door.

2. Locate the RF box immediately inside the cabinet on the right. (It is an aluminum box with small holes.) On one end of the box is a printed circuit board with an edge connector coming from the edge of the board. This printed circuit board is the RF shield assembly.

3. Remove the five pan-head Phillips screws from each of the long sides (total of ten screws) of the RF shield assembly.

    IMPORTANT: To prevent damage to the capacitors on the rear side of this PCB, move the board about 1/4" towards the edge connector (same direction as two arrows on small white label). Then pull the RF board out towards yourself. Never yank the RF board straight out of the metal box.

4. Carefully remove the PCB from the RF shield assembly.

5. Set the switches for the desired options, as shown in Table 1.

6. Reinstall the PCB following Steps 1 through 4 in reverse order. Do not force or bend the printed circuit board. Before reinstalling, always inspect the printed circuit board for damage. Close and lock the rear access door.

7. Plug in the game and verify option functions by playing it.

Table 1   Operator Options

1	2	3	4	5	6	7	8	Results	TV Monitor Display During Self-Test
ON OFF								Oil slicks added to tracks No oil slicks	Oil
	ON OFF							Cycle to next track every lap Cycle to next track every two laps	Cycle
		ON ON OFF OFF	ON OFF ON OFF					Game cost - 25¢ per player Game cost - 25¢ for two players Game cost - 50¢ per player Game is free (No attract mode)	1 Coin Per Player 2 Players Per Coin 2 Coins Per Player Demo
				ON OFF				Extended play equalling 3/10 of game time (set by toggles 7 and 8), if player obtains Pro rating during normal play. No extended play.	Extended Play
					ON OFF			Not used, any position OK Not used, any position OK	
						ON ON OFF OFF	ON OFF ON OFF	Game time - 150 seconds Game time - 120 seconds Game time - 90 seconds Game time - 60 seconds	Time 150 Time 120 Time 90 Time 60

3

SELF-TEST PROCEDURE

The self-test procedure permits you to check the TV monitor, the character-generating and sync circuits, and the controls. It speeds up troubleshooting by quickly isolating many kinds of component problems. This feature tests about 95% of the game's circuitry. The tests, except for the switches, are done automatically when the self-test switch is turned on. The results of each test are displayed sequentially on the TV monitor until the self-test switch is turned off. High scores will reset to 000 when performing the self-test. We suggest that you run the self-test each time the coin box is emptied.

Table 2   Self-Test Procedure

Test	Instruction	Results if Test Passes	Results if Test Fails
1	Unlock and open coin door. Set self-test slide switch (located inside and to the left of the coin door), to the "on" position.	TV monitor "flashes" alpha-numerics (A through Z, and 0 through 9) on the screen, while audio "hash" sound comes from speaker. Rotating car appears in the lower right-hand corner of the screen and moves diagonally toward upper left-hand corner. When the car reaches the upper left corner of the screen, RAM test is complete. If RAM testing is satis-factory, self-test feature automatically begins the ROM test.(Test 2.)	TV monitor display freezes. NOTE TO TECHNICIAN The TV monitor display freezes, with a letter or number showing on the screen. This letter or number corresponds to the alpha-numeric whose particular data code was not written into the RAM correctly.

Table 2   Self-Test Procedure

Test	Instruction	Results if Test Passes	Results if Test Fails
2	No operator action required.	Self-test operator sees a visual representation of game structuring in white characters at the top of the screen. No other visual effects appear on the screen.	Black numbers appear in the center of the screen. Refer to Table 3 to determine the failing ROM locations on the PCB. Match the part number of the game's PCB with the part number in Table 3.
3	Set gear shifter in 4th position then shift into 1st, 2nd, and 3rd positions.	For each position, except 4th gear, an audio screech sound occurs.	A constant screech sound indicates a stuck switch or a shorted harness. No screech sound indicates a broken switch or an open harness.
	Step on accelerator foot pedal.	Audio screech sound occurs each time foot pedal is depressed.	
	Press START button.	Audio screech sound occurs each time START button is pressed.	
	Trip right and left coin acceptor wires.	Audio screech sound occurs each time wires are tripped.	
4	No operator action required.	Light-emitting diode for START button activates automatically and stays on.	Light in START button is not activated.

Table 3   ROM Locations for ROM Test Failure Indications "Test 2 of Self-Test"

Failure Indication	0	1	2	3	4		5		6		7	
Location of failing ROM for PCB 6433-01	B1		C1		L0	L1	M0	M1	N0	N1	P0	P1
Location of failing ROM for PCB 6433-02	B1		C1		D1				E1			

6

GROUND WIRE

ITEMS NOT CALLED OUT
⑤ ⑭ ⑲ ⑳

SECTION

2 EA. ⑭

502 WIRING
SEE DETAIL

⓷ ⑨
㉗ 4 EA.

34 4 EA.

2 EA. 38

6 EA. 38

3.00

32 4 EA.

50
42

38 3 EA.

23
31
33
34 } 2 EA.
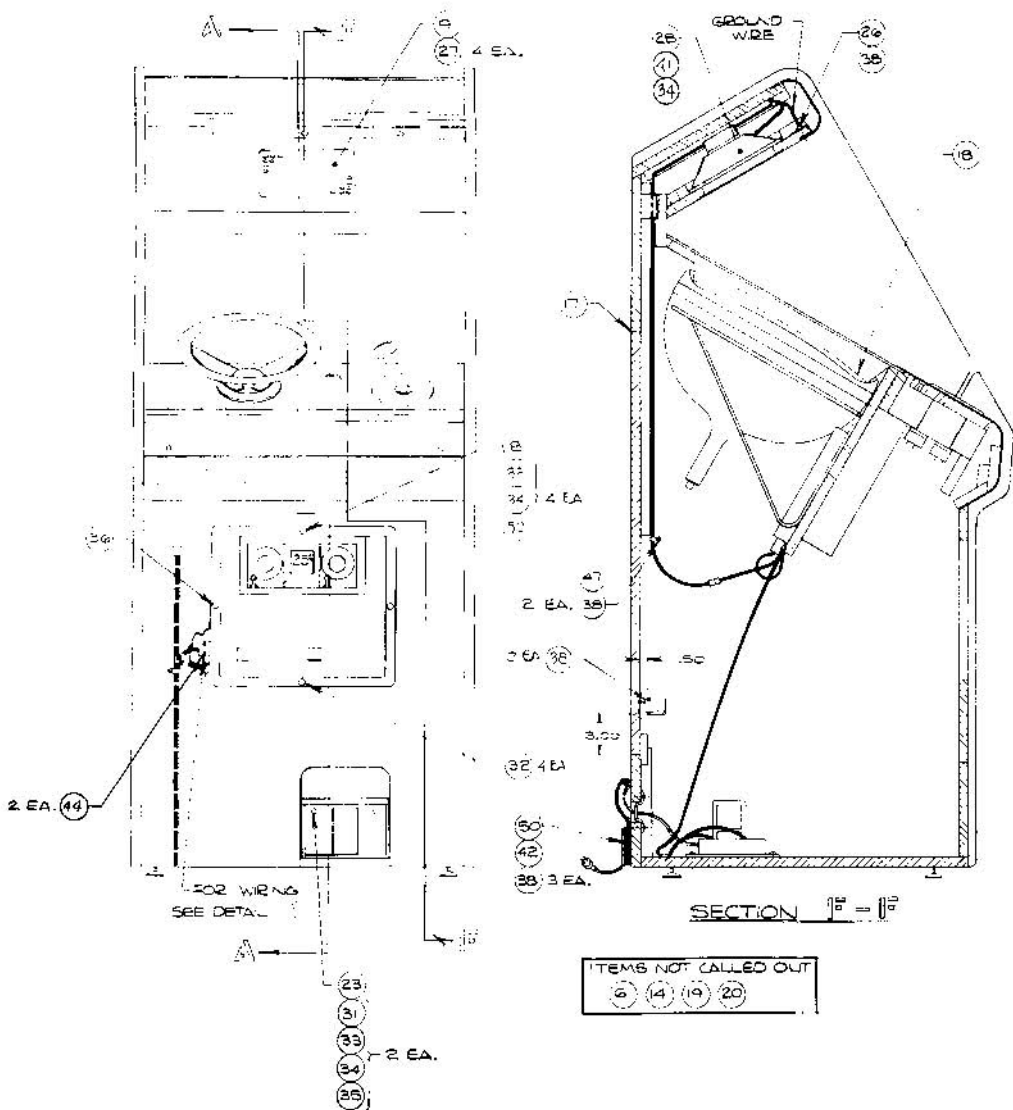35

Figure 1   Sprint One Final Assembly
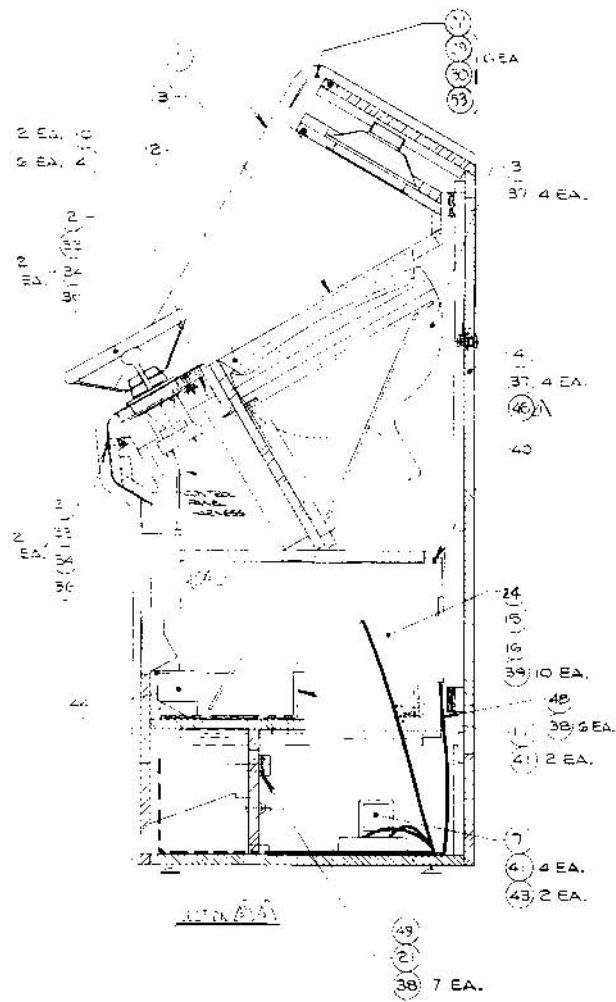A008872-01   B

8

Figure 1   Sprint One Final Assembly
A008872-01   B

9

Figure 1   Sprint One Final Assembly
                   Parts List

Item	Part Number	Qty.	Description
1	A008873-01	1	Cabinet Assembly See Figure 2
2	A008874-01	1	Control Panel Assembly See Figure 3
3	A008875-01	1	T.V. Shelf Assembly See Figure 7
4	A007299-01	1	Rear Door Assembly with Lock
5	A009262-01	1	R.F. Shield Box Assembly
6	A008910-XX	1	Shipping Container Assembly
7	A007258-01	1	Power Supply Base Assembly, Type "C" See Figure 8
8	A009083-01	1	Coin Door Assembly See Figure 10
9	005419-01	1	Speaker Mesh Cover
10	002728-01	2	Brkt. Control Panel
11	006870-01	1	Coin Box Bracket
12	008901-01	1	Bezel, Cardboard
13	008903-01	1	Shield, Plex Cover
14	006311-01	1	Harness, Schematic See Figure 11
15	A006446-01	1	R.F. Shield PCB Assembly See Figure 12
16	A006443-XX	1	P.C.B. Assembly, Sprint I See Figure 13
17	005233-01	1	Rear Door Seal
18	006319-01	1	Copyright Decal
19	006305-01	1	Printed Poly Bag
20	TM-095	1	Tech. Manual
21	007103-01	1	On/Off Switch Cover
22	008906-01	1	Cover Panel with Graphics
23	A008845-01	1	Single Foot Pedal Assembly See Figure 15
24	78-24007	4	Cable Tie, Heat Stabilized
25			
26	78-6601216	1	Alum. Foil, 1" Wide x 20" Lg. (Approx.)
27	73-77004	4	Rivets, 3/16" OD x .68 Lg. (.250 - .500 Grip)
28	48-009	1	Speaker, 8"
29	82-8016	6	Screws, Button Hd. Socket Cap. #10-32 x 1.00" Lg.
30	75-99090006	6	Well Nuts, Blind Hole Fastener #10-32
31	75-5524B	4	Carriage Bolts, ¼-20 x 1.50 Lg.
32	75-5516B	4	Carriage Bolts, ¼-20 x 1.00 Lg.
33	75-045	6	Washers, Split-Lock ¼
34	75-015S	11	Washers, Flat ¼
35	75-915S	2	Hex Nuts, ¼-20
36	75-935	4	Wing Nuts, ¼-20
37	82-1824	8	Wood Screws, #8 x 1½ Lg. Ft. Hd. Phil.
38	72-6610	22	Screws, Sm. Pan Hd. Phil. #6 x 5/8 Lg.
39	72-6608	10	Screws, Sm. Pan Hd. Phil. #6 x ½ Lg.

Figure 1   Sprint One Final Assembly
Parts List

Item	Part Number	Qty.	DESCRIPTION
40	72-6808	1	Screws, Sm. Pan Hd. Phil. #8 x ½ Lg.
41	72-6812	15	Screws, Sm. Pan Hd. Phil. #8 x 3/4 Lg.
42	78-25001	1	Screw Down Tie-Wrap
43	46-201302	2	Fuses, 3 AMP
44	A007902-01	1	Cash Box Assembly
45	IPC-095	1	Illustrated Parts Catalog
46	ST-095	1	Self Test Chart
47	A009063-01	1	Speaker Harness Assembly
48	A006312-02	1	Main Harness Assembled to Volume Control
49	A009509-01	1	Power Switch & Harness Assembly
50	A007784-01	1	Strain Relief Power Cord Assembly
52	75-990505S	4	¼-20 Nylon Locknuts
53	75-07021	6	#10 Nylon Black Washers

SECTION A-A
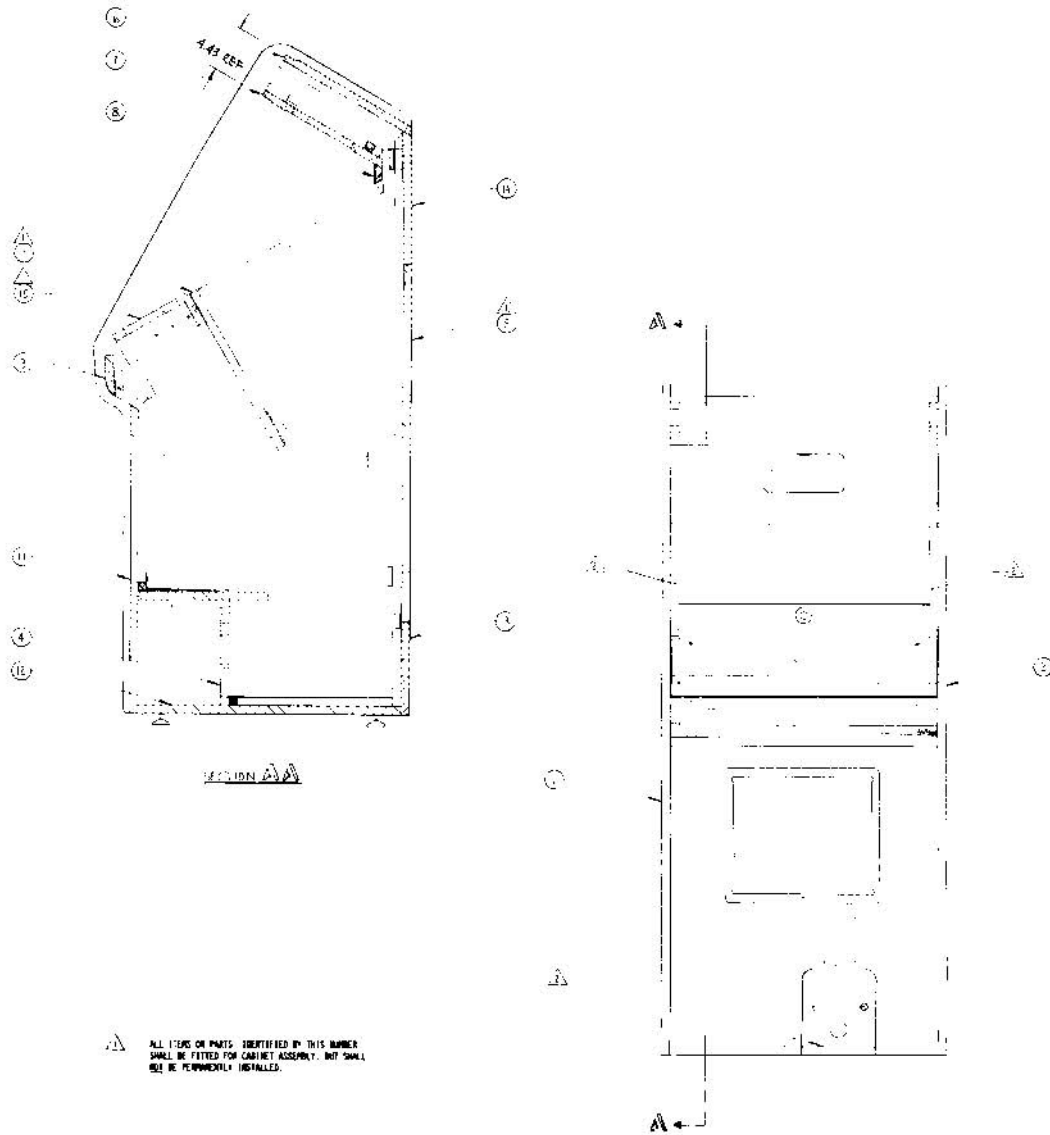
Figure 2   Cabinet Assembly
A008873-01 A

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Figure 2   Cabinet Assembly
             Parts List

Item	Part Number	Qty.	Description
1	A008877-01	1	Left Hand Side Panel Cleat Assembly
2	A008877-02	1	Right Hand Side Panel Cleat Assembly
3	A008878-01	1	Lower Control Panel Assembly
4	A008879-01	1	Foot Pedal Box Assembly
5	A007298-01	Ref	Rear Door Assembly
6	008908-01	1	Panel, Top
7	A008876-01	1	Panel, Speaker Mounting Assembly
8	008895-01	1	Panel, Plex Support
9	008897-01	Ref	T.V. Mounting Shelf
10	008898-01	Ref	Panel, Control Support
11	008881-01	1	Panel, Front
12	008896-01	1	Panel, Base
13	008882-01	1	Panel, Lower Rear
14	008883-01	1	Panel, Upper Rear
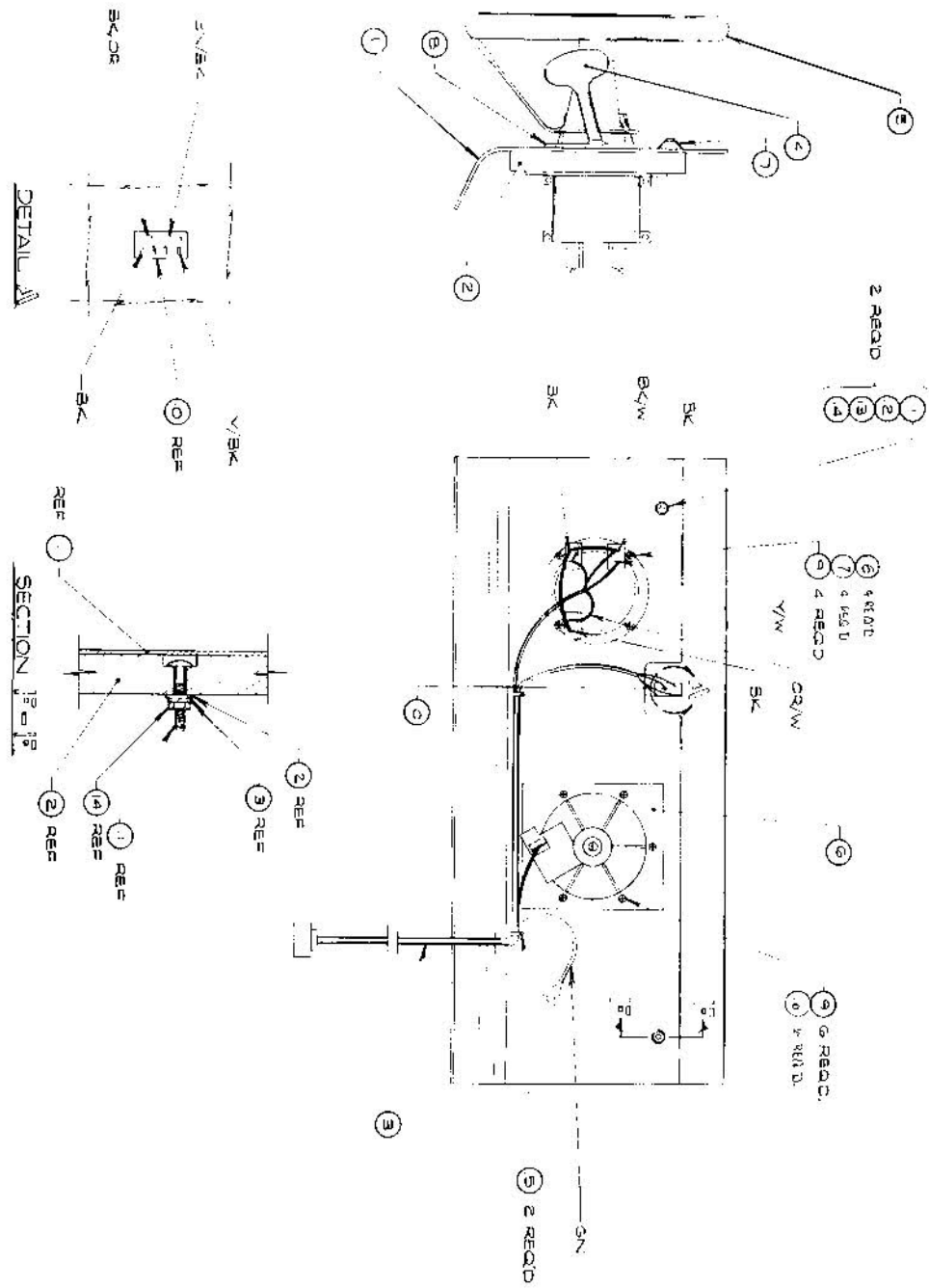
Figure 3   Control Panel Assembly
A008874-01   A

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Figure 3   Control Panel Assembly
            Parts List

Item	Part Number	Qty.	Description
1	008902-01	1	Control Panel with Graphics
2	008898-01	1	Control Panel with Wood Support
3	A006313-01	1	Assembly, Control Panel Harness
4	A000608-02	1	N-Shift Assembly See Figure 4
5	A000598-02	1	Steering Wheel Assembly See Figure 5
6	000567-01	1	Bow Washer
7	001856-01	1	Bushing Alum.
8	005255-01	1	Shift Bezel
9	85-22FI12	10	Screws, #10-24 x 3/4 Lg "F" Type Phil.
10	62-002	1	LED Switch
11	75-5524	2	Carriage Bolt, ¼-20 x 1½ Lg.
12	75-015S	2	Washers, Flat ¼
13	75-045	2	Washers, Split-Lock ¼
14	75-915S	2	Hex Nuts, ¼-20
15	75-6610	2	Screw, Sheet Metal, #6 x 5/8" Lg.
16	75-040	10	#10 Split-Lock Washers
17	75-010S	4	#10 Plain Flat Washers

OMIT THIS SWITCH (ITEM 6)

8 6 PLCS
9 6 PLCS

7 6 PLCS
10 6 PLCS

SWITCH (ITEM 6) REMOVED
TO SHOW RIVET (ITEM 4)

6 3 PLCS

4 4 PLCS
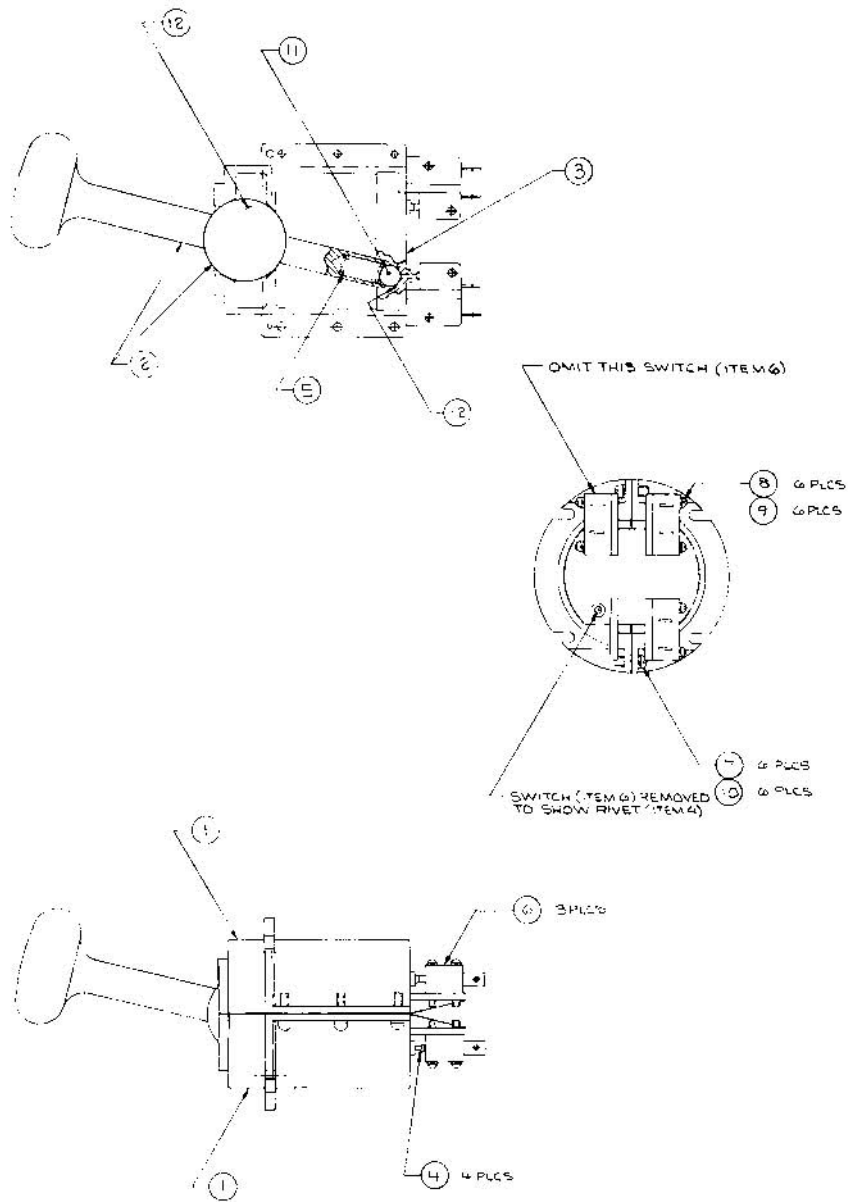
Figure 4   N-Shift Assembly
A000608-02 Q

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Figure 4   N-Shift Assembly
            Parts List

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Item	Part Number	Qty.	DESCRIPTION
1	000609-01	2	Shift Housing
2	A000610-01	1	Handle Assy
3	005671-01	1	Shift Detent
4	73-7C0307SH	3	Shift Rivets
5	78-3002003	1	Spring, Assoc., Spring Co. (Co 360-032-100M/W)
6	65-021A	3	Switch, Cherry (E18-00M)
7	75-046	6	Washers, #6 Split-Lock
8	75-044	6	Washers, #4 Split-Lock
9	85-22F412	6	SCR Mach., 4-40 x 3/4 Lg. Pan HD., Self Threading Type "F"
10	85-22F608	6	SCR Mach., 6-32 x ½Lg. Pan HD., Self Threading Type "F"
11	76-11375S	1	Ball, Steel, 3/8 Dia. Bearing Grade
12	78-16002	A/R	Silicone Compound, Dow Corning #5
13	78-33001	1	Clamp, Hose

NOTE: Item #13, 78-33001, Hose Clamp is to be used
       only with old shift housing P/N 000609 Rev. "D"
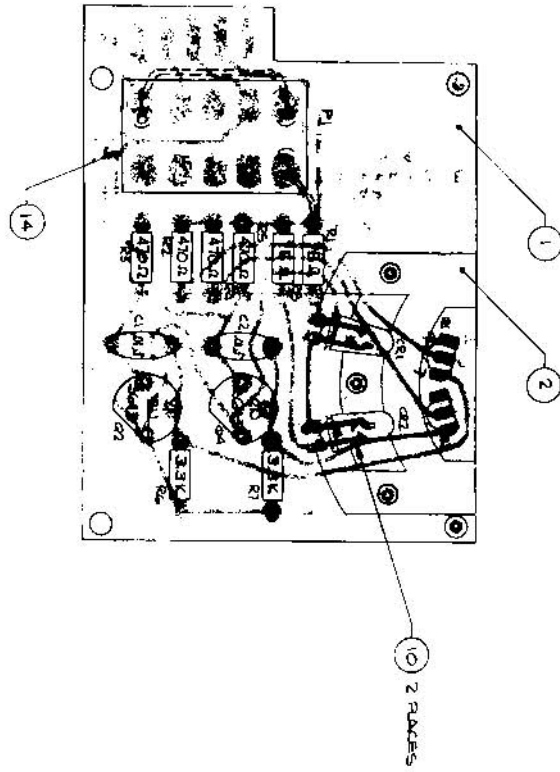
Figure 6   Steering Board Assembly
A000607 M

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Figure 6   Steering Board Assembly
            Parts List

Item	Part. No.	Qty.	Description
1	000614	1	Printed Circuit Board (E)
2	001092	1	Light Mount
3	001151	Ref	Schematic Diagram
4	11750/10-5750	2	Resistor, Comp., 75 ohm, ¼ watt, 5%
5	11471/10-5471	4	Resistor, Comp, 470 ohm, ¼ watt, 5%
6	11332/10-5332	2	Resistor, Comp, 3.3Kohm, ¼ watt, 5%
7	34104 /27-101103	2	Capacitor, Ceramic, .01μf
8	70006/38-2N5777	2	Transistor, 2N 5777 (Photo Darlington)
9	70000/34-2N3643	2	Transistor, 2N 3643
10	71008/38-ME7124	2	Light-Emitting Diode, I.R. ME 7124
11			
12			
13			
14	80089/79-S8005	1	Connector, 10 pin, PC Mount, Amp #1-380991
15	72-1212S	1	Screw, Machine, Pan Head Phil, #2-56 x 3/4 Lg.
16	75-042	1	Washer, Split Lock #2
17	75-912S	1	Nut, Hex, #2-56
18	003749	1	Retainer, LED Light Mount

Figure 6   Steering Board Schematic Diagram
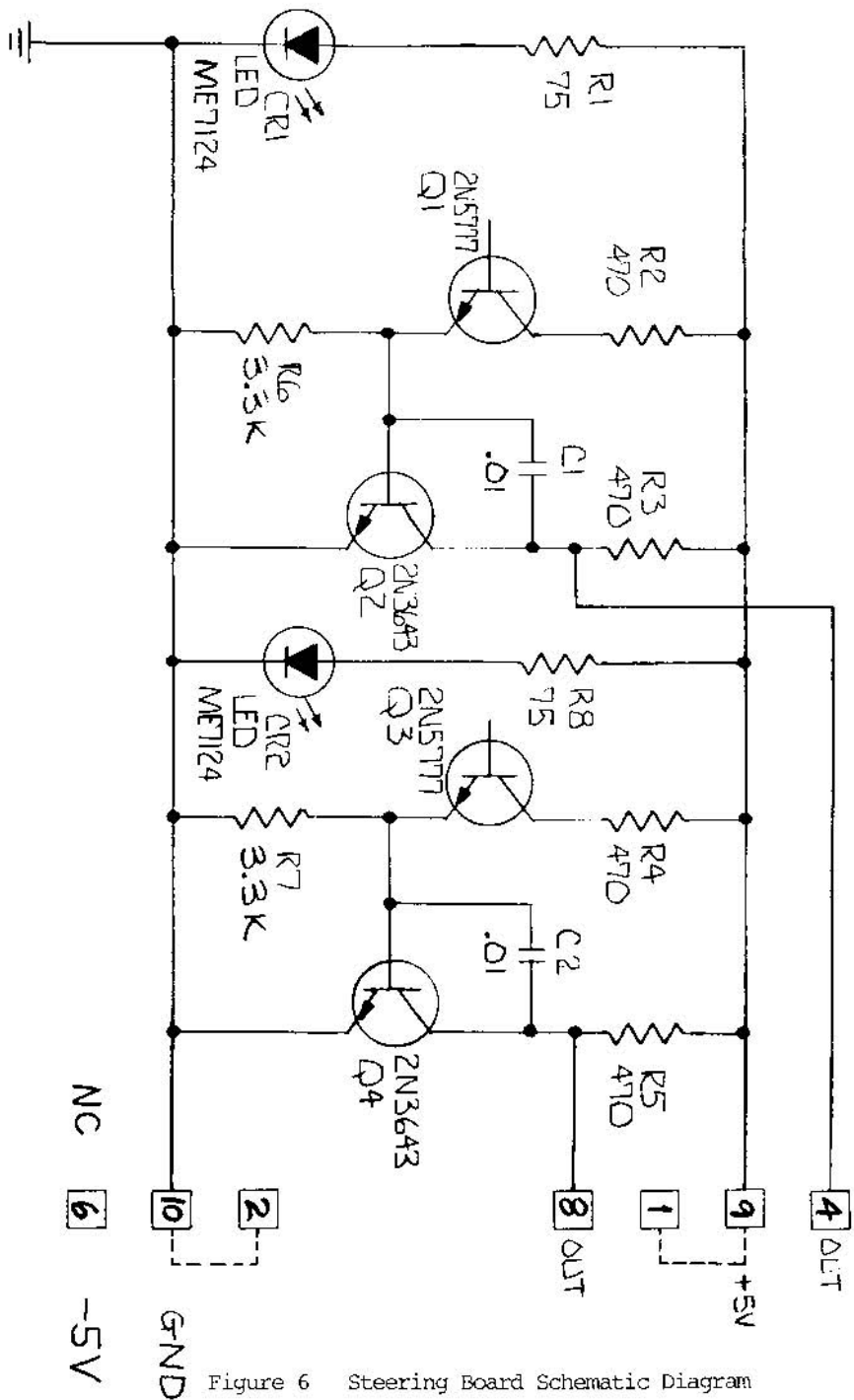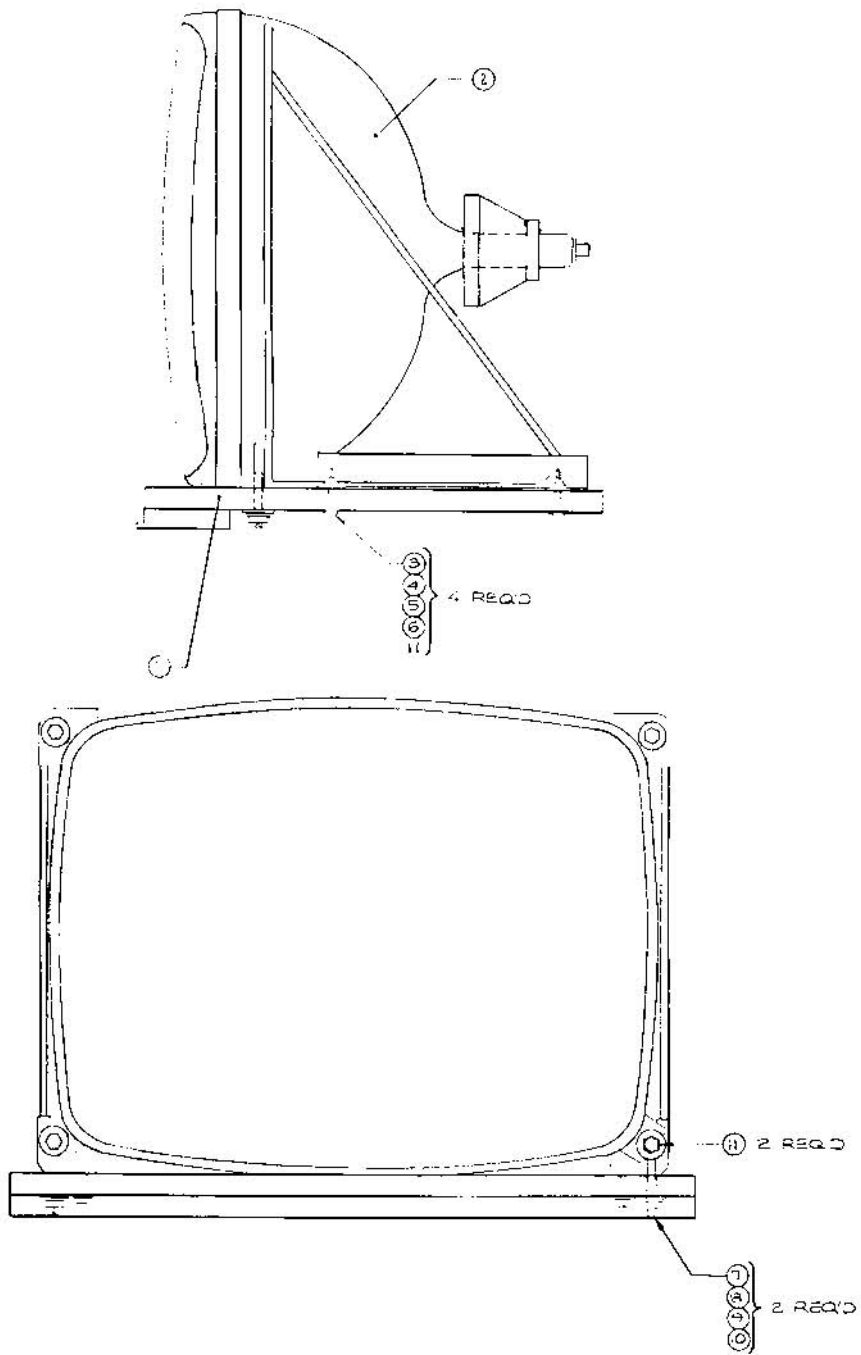
Figure 7   TV Shelf Assembly
A008875-01 A

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Figure 7   TV Shelf Assembly
             Parts List

Item	Part Number	Qty.	Description
1	008897-01	1	Panel, T.V. Shelf
2	92-032	1	23" T.V. Monitor
3	75-5120	4	Carriage Bolts #10-24 x 1.25 Lg.
4	75-040	4	Lock Washer #10
5	75-911S	4	Hex Nuts, #10-24
6	75-010S	4	Flat Washers, #10
7	82-405	2	Eye Bolts, ¼-20 x 3" Lg.
8	75-07002	2	Flat Washer ¼, Fender
9	75-045	2	Lock Washers, Split ¼
10	75-915S	2	Hex Nuts, ¼-20
11	72-6012	2	Screws, Sm. #10 x 3/4" Lg.
12	75-015S	4	Flat Washer, #¼

Figure 8   Power Supply Assembly
A007258-01   F

Item	Part Number	Qty.	Description
1	A009266-01	1	Power Supply Base Weldment
2	A006886-02	1	Transformer Termination Assembly "Type C"
3	78-2708	1	Grommet, Plastic
4	A006958-01	A/R	Volt Sel Block, 95V
5	A006958-02	"	Volt Sel Block, 110V
6	A006958-03	"	Volt Sel Block, 205V
7	A006958-04	"	Volt Sel Block, 220V
8	79-4411004	5	Fuse Holder, Panel Mounting
9	A007192-01	1	Power Switch Termination Assembly
10	A007444-01	1	Power In Harness
11	41-2003	1	Filter, Power Line, 5 AMP
12	75-038	6	Washer, Lock External Tooth, Steel #8
13	75-918S	6	Nut, Mach., Hex, Steel #8
14	72-1812S	6	Screw, Pan Hd., Steel #8-3/4
15	75-018S	8	Washer, Flat, Steel #8
16	46-203801	1	Fuse, 8 AMP, 125V, 3 AG Fast Acting
17	46-201251	2	Fuse, 2½ AMP, 125V, Slow Acting

Figure 9   Power Supply Schematic

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Figure 10 Coin Door Assembly
A006794-01 through -07 C

Item	Part Number	Qty.	Description
1	A007637-01	1	Front Bezel Assy. - Used only on -01 Coin Door Assy.
	A007637-02	Ref.	Front Bezel Assy. - Used only on -02 Coin Door Assy.
	A007637-03	Ref.	Front Bezel Assy. - Used only on -03 Coin Door Assy.
	A007637-04	Ref.	Front Bezel Assy. - Used only on -04 Coin Door Assy.
	A007637-05	Ref.	Front Bezel Assy. - Used only on -05 Coin Door Assy.
	A007637-06	Ref.	Front Bezel Assy. - Used only on -06 Coin Door Assy.
	A007637-07	Ref.	Front Bezel Assy. - Used only on -07 Coin Door Assy.
2	75-9165	4	Nut 6-32
3	A007639-01	1	Coin Lock Out Assembly
4	A007640-01	2	Coin switch Assembly
5	A002465-01	1	Coin Counter Assembly
6	004320-01	1	Coin Door Weldment
7	004341-01	2	Secondary Coin Chute
8	004344-01	1	Key Loop
9	004340-01	2	Spring Return
10	004337-01	2	Bracket, Wire Form
11	004338-01	1	Lock Out, Wire Form, R.H.
12	004336-01	1	Lock Out, Wire Form, L.H.
13	004326-01	2	Button, Coin Return
14	75-046	4	Lock Washer, #6
15	006904-01	2	Spacer
16	007359-01	1	Lamp Socket
17	70-11-47	1	Lamp
18	73-3008	2	Retaining "C" Ring, Truarc #5103-25
19	75-9914001	6	Self-Threading Nut, Tinnerman #8SR18U0C6
20	75-0265	4	Washer #6
21	75-0051F	11	Kepnut, Style 842, Stl., 6-32
22	008629-01	2	Spring
23	71-2118	1	Lock Assembly, Budson Lock
24	71-1225CU	2	Coin Mechanism for American Quarter only
	71-125FB	Ref.	Coin Mechanism for Belgian 5 Francs Only
	71-12LMG	Ref.	Coin Mechanism for German Mark only
	71-121KS	Ref.	Coin Mechanism for Swedish Krona Only
	71-12100YJ	Ref.	Coin Mechanism for Japanese 100 Yen Only
	71-1210PE	Ref.	Coin Mechanism for English 10 Pence Only
	71-1220CA	Ref.	Coin Mechanism for Australian 20-Cent Piece only
25	007753-01	1	Plate, Anti-Probe
26	A007638-01	1	Switch Assembly - Slam
27	A006921-01	1	Harness Assembly

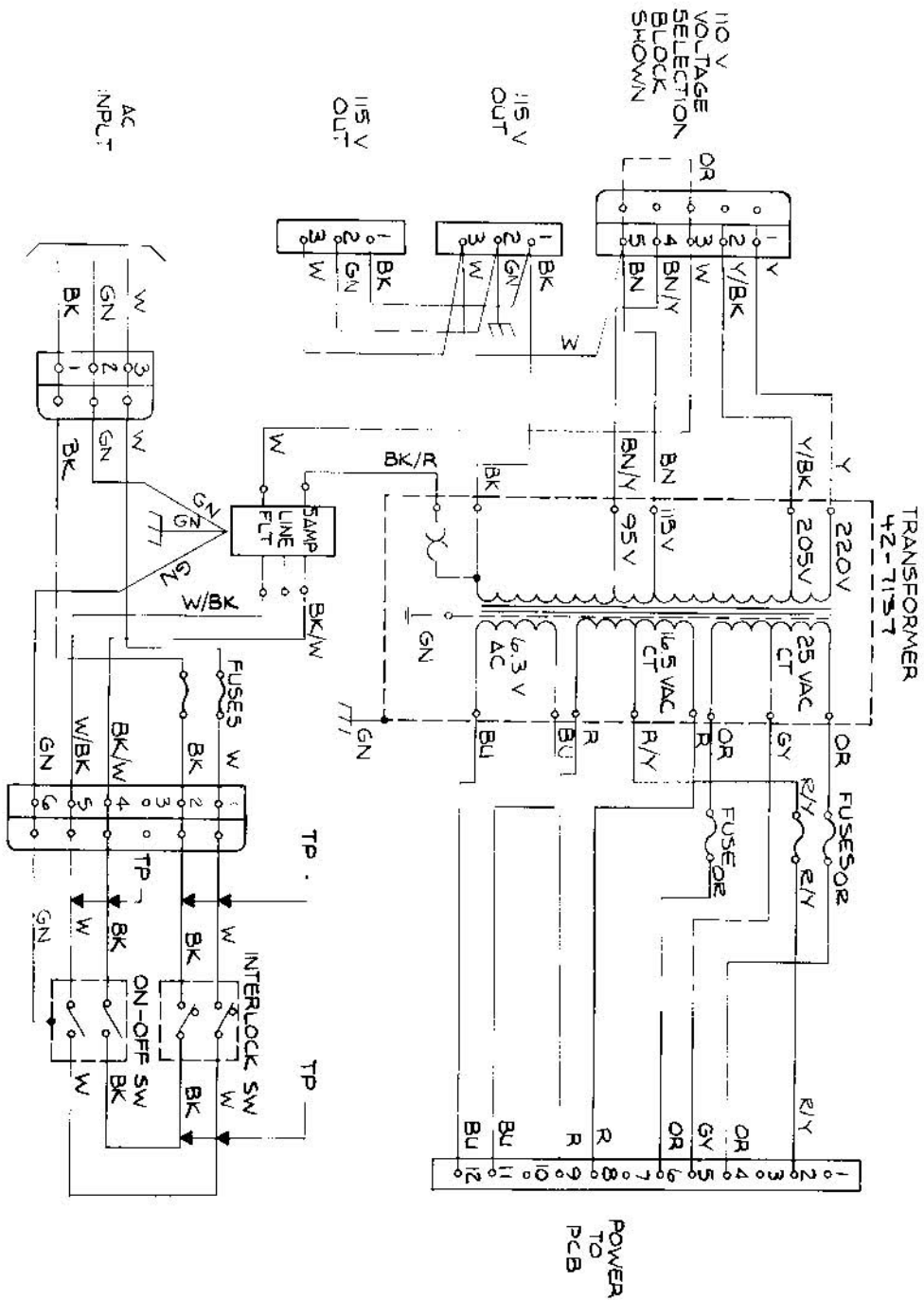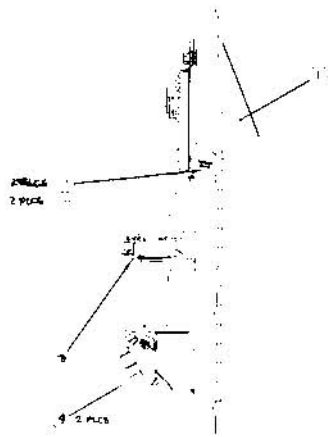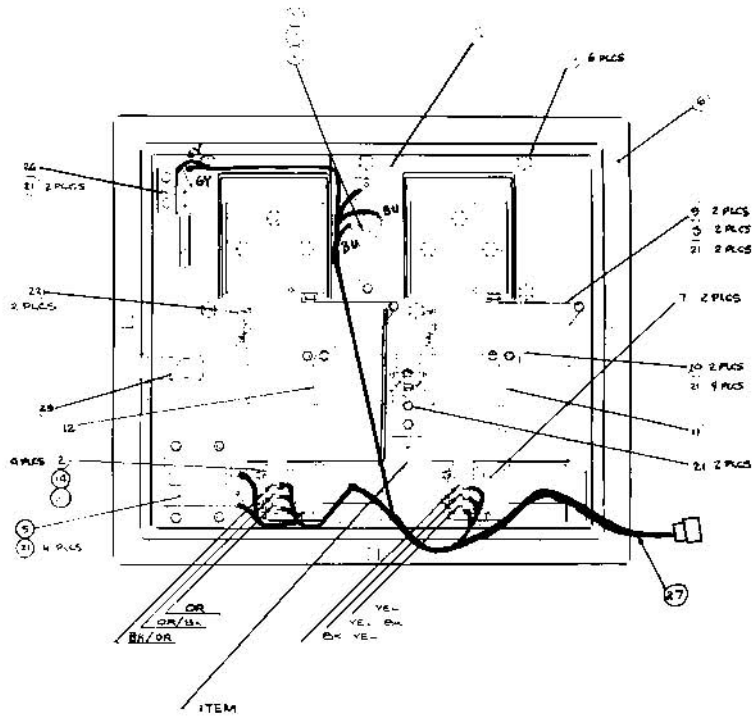Figure 10 Coin Door Assembly
Parts List

Figure 11   Harness Schematic
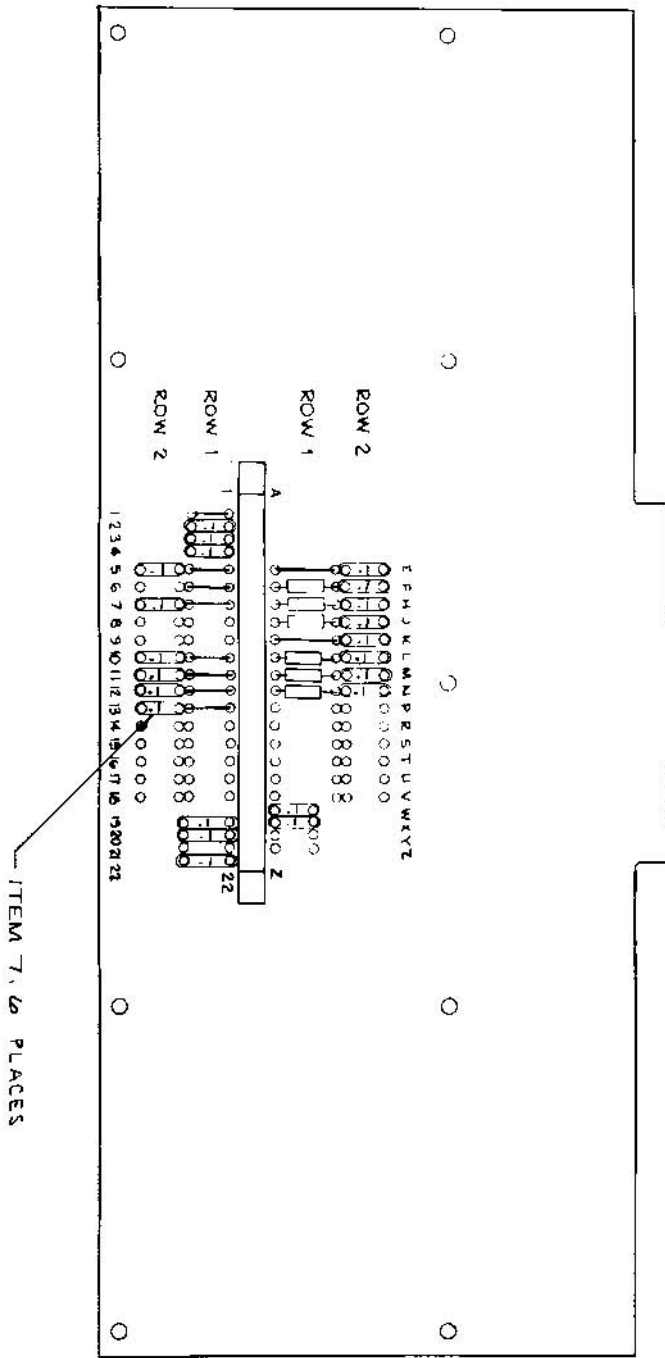
Figure 12   RF Shield PCB Assembly
A006446-01 A

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Figure 12   RF Shield PCB Assembly
Parts List

Item	Part Number	Qty.	Description
1	005491-01	1	PC Board
2	79-517222	1	Connector, 44 Pin P.C. Mount
3	41-3003	6	Inductor, 100μh Large Case
4	27-250104	16	Cap, Cer. Disc 0.1μf 25V
5	52-002	8	Jumper, .4 Center
6	52-003	2	Jumper, .6 Center
7	27-A250104	6	Cap, Cer Disc 0.1μf 25V
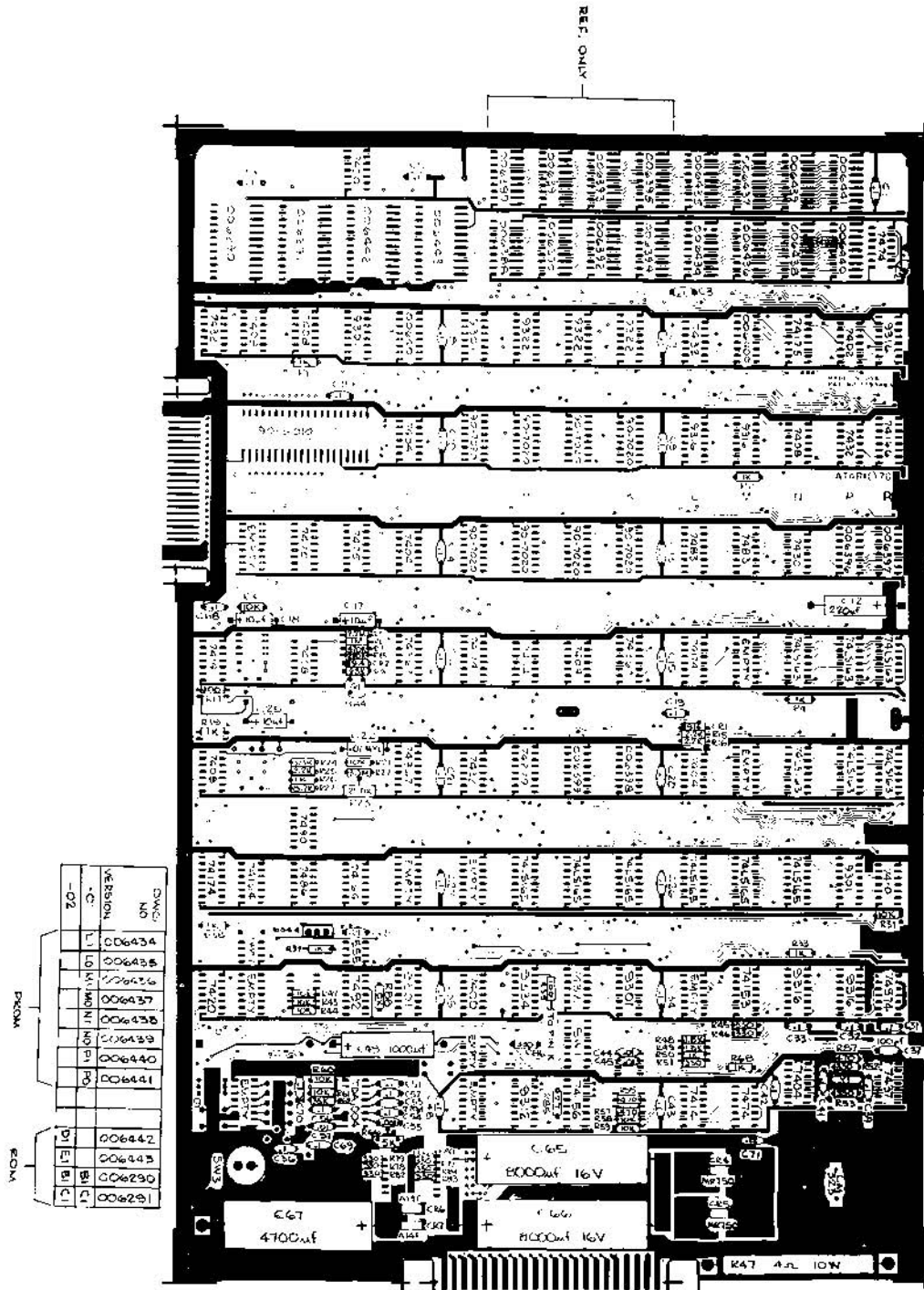
Figure 13   Sprint One PCB Assembly
A006433-01   B

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Figure 13 Sprint One PCB Assembly Parts List
-01 Version

Item	Part Number	Qty.	Description	
1	030.06-01	1	Sprint One PCB Board	
2	10-5101	2	Res., Carbon, 5%, ¼W 100 OHM	R17,35
3	10-5102	10	" 1K "	R1,2,4,19,26,33,36,58, 68,37
4	10-5103	11	" 10K "	R3,21,31,42-44,58-61, H8
5	10-5105	1	" 1M "	R6
6	10-5185	2	" 1.8K "	R48,49
7	10-5222	3	" 2.2K "	R15,16,25
8	10-5224	1	" 220K "	R8
9	10-5225	1	" 2.2M "	R5
10	10-5331	15	" 310 "	R45,46,51-53,77-91,94
11	10-5333	1	" 33K "	R62
12	10-5305	1	" 3.3X "	R22
13	10-5392	1	" 3.9K "	R24
14	10-5471	3	" 470 "	R8,55,57
15	10-5474	1	" 5702 "	R7
16	10-5681	1	" 68K "	R9
17	10-5821	1	" 8.2K "	R27
18	19-806M4P0	1	Res., Wirewound 10M, 4 OHM	R47
19	19-315502	2	Trimpot, 5K OHM	R66
20	19-315254	1	Trimpot, 250K OHM	R23
21				
22	10-5270	1	Res., Carbon, 5%, ¼W 27 OHM	R85
23				
24				
25	24-101101	1	Cap., Mylar, .01uf 100V	C22

Item	Part Number	Qty.	Description	
26				
27				
28	24-160808	2	Cap., Electrolytic, 8000uf, 16V	C55,66
29	24-250106	3	" 1uf 25V	C17,18,25
30	24-250108	1	" 1000uf 25V	C49
31	24-250227	1	" 220uf 25V	C12
32	24-250478	1	" 4700uf 25V	C67
33				
34				
35	27-250102	1	Cap., Ceramic Disc, .001uf, 25V	C55
36	27-250103	4	" .01uf 25V	C28, .57,44,45
37	27-250104	37	" .1uf 25V	C1-3,5,13-16,19-21, 26,27,31-36,41-43, 48-51,52,54,56,59, 6-11,70,68,69
38	27-250224	1	" .22uf 25V	C71
39				
40	28-101101	1	Cap., Dipped Mica, 100pf, 100V	C37
41	28-101221	1	" 220pf 100V	C53
42				
43				
44				
45	31-1N914	2	Diode, 2N914	CR1,2
46	31-MR750	2	Diode, MR750	CR4,5
47	31-A14F	2	Diode, A14F	CR6,7
48				
49				
50	33-2N3644	2	Transistor, 2N3644	Q1
51	34-2N6044	1	Transistor, 2N6044	Q4
52				
53				
54				
55				
56	37-7400	1	Integrated Circuit, 7400	P8,29
57	37-7402	1	" 7402	P2
58	37-7404	5	" 7404	E2,E4,H5,J5,L6,N9
59				

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Figure 13 Sprint One PCB Assembly
Parts List
-01 Version

Item	Part Number	Qty.	Description	
60	37-7408	5	Integrated Circuit 7408	B2,C2,N3,C5,N6
61	37-7410	1	" 7410	B7
62	37-7414	2	" 7414	A5,A9
63	37-7420	1	" 7420	A8
64	37-7430	1	" 7430	N4
65	37-7432	5	" 7432	A2,L2,P3,F6,J8
66	37-7437	1	" 7437	F9
67	37-7474	2	" 7474	R1,M9
68	37-7457J	2	" 7457J	R8
69	37-7475	2	" 7475	C4,D4
70	37-7483	2	" 7483	L4,M4
71	37-7486	1	" 7486	C7
72	37-7490	1	" 7490	C6/7
73	37-7492	1	" 7492	D8
74	37-9312	1	" 9312	H9
75	37-74153	1	" 74153	H9
76	37-74156	1	" 74156	J9
77	37-74LS163	6	" 74LS163	K5,P5,R5, K6,P6,M6
78	37-74164	2	" 74164	B7,D7
79	37-74LS165	6	" 74LS165	C7,H7,J7,K7,L7,M7,
80	37-74166	1	" 74166	P7
81	37-74174	3	" 74174	F5,J5,A7
82	37-74175	1	" 74175	H2
83	37-74279	1	" 74279	H6
84	37-9301	5	" 9101	B2,F2,P7,S8,K8
85	37-9316	5	" 9316	R2,S3,M2,N6,P6
86	37-9322	3	" 9322	S2,S2,K2
87	37-9334	1	" 9334	K8
88	37-555	1	" 555	D7/8
89	37-74367	2	" 74367	E3,R5,P5
90	90-7322	8	" 27L02A	F3,E3,J3,K3,F4,H4,M4, K4
91	37-LM323	1	Regulator LM323	L0
92	37-TDA1004	1	Op-AMP TDA1004	D9
93				
94				

Item	Part Number	Qty.	Description	
95			Switch, SPST, Momentary	SW3
96	62-001	1	Switch, SPST, X8, 2:P	SW1
97				
98				
99	66-118P1T	1		
100				
101				
102	72-1602C	2	Screw, Pan Hd., Phil., 6-32 x 4 Lg., CRES	
103	72-1602C	2		
104	75-016	2	Washer, Flat #6	
105	75-C56	2	Washer, Lock, Int, Star, #6	
106	75-916C	2	Nut, Hex, #6-12 CRES	
107				
108				
109	78-06001	1	Heatsink, (LM323)	
110	78-06009		Heatsink, (TDA1004)	
111	78-13016		Cement, (TDA1004 Heatsink)	
112	78-16005	A/R	Siljad (LM323)	
113				
114				
115				
116				
117	79-42010	1	Socket, 40 Pin, Med. Insertion	G3
118				
119				
120				
121				
122				
123				
124	90-102	1	Crystal 12.096	Y1
125				
126				
127	006434-01	2	Sprint I Program Prom 0	L3
128	006435-01	1	Sprint I Program Prom 2	L0
129	006436-01	1	Sprint I Program Prom 3	ML
130	006437-01	1	Sprint I Program Prom 4	M0

Figure 13 Sprint One PCB Assembly
Parts List
-01 Version

Item	Part Number	Qty.	Description	
131	006438-01	1	Sprint I Program Prom 5	N1
132	006439-01	1	Sprint I Program Prom 6	N0
133	006440-01	1	Sprint I Program Prom 7	P1
134	006441-01	1	Sprint I Program Prom 8	P0
135				
136				
137				
138				
139				
140				
141				
142				
143				
144				
145				
146				
147	006396-01	1	Sprint Character Prom LSB	P4
148	006397-01	1	Sprint Character Prom MSB	R4
149				
150				
151	006398-01	1	Sprint Race Car Prom LSB	K6
152	006399-01	1	Sprint Race Car Prom MSB	J6
153				
154				
155	006400-01	1	Sprint Sync Prom	M2
156				
157				
158				
159	006401-01	1	Sprint Adress Decode Prom	F2
160				
161				
162				
163				
164				
165				
166				

Item	Part Number	Qty.	Description	
167	006290-01	1	Sprint Race Trak Rom 1	B1
168	006291-01	1	Sprint Race Trak Rom 2	C1
169	90-6010	1	Integrated Circuit	C3

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Figure 13 Sprint One PCB Assembly
Parts List
-02 Version

Item	Part Number	Qty.	Description	
1	CX626-01	1	Sprint I P.C. Board	
2	10-5101	2	Res., Carbon, 5%, ¼W 100 OHM	R17,35
3	10-5102	10	" 1K	R1,2,4,19,26,33,38,50 66,37
4	10-5103	11	" 10K	R3,21,1,42 44,58-61, 68
5	10-5105	1	" 1M	R6
6	10-5182	2	" 1.8K	R48,49
7	10-5222	1	" 2.2K	R15,16,25
8	10-5224	1	" 220K	R8
9	10-5225	1	" 2.2M	R5
10	10-5331	11	" 330	R45,46,51-53,77-83,86
11	10-5332	1	" 3.3K	R62
12	10-5335	1	" 3.3M	R22
13	10-5392	1	" 47	R24
14	10-5471	3	" 470	R87,55,57
15	10-5474	1	" 470K	R7
16	10-5683	1	" 68K	R9
17	10-5822	1	" 8.2K	R27
18	19-RCBK4P0	1	Res., Wirewound 10W, 4 OHM	R47
19	19-315502	1	Trimpot, 5K OHM	R66
20	19-315254	1	Trimpot, 250K OHM	R23
21			Res., Carbon, 5%, ¼W 27 OHM	R85
22	10-5270	1		
23				
24				
25	21-101103	1	Cap., Mylar, .01uf 100V	C22

Item	Part Number	Qty.	Description	
26	24-160808	2	Cap., Electrolytic, 8000uf, 16V	C65,66
27	24-250106	3	" 10uf 25V	C17,18,25
28				
29	24-250108	1	" 1000uf 25V	C49
30	24-250227	1	" 220uf 25V	C12
31	24-250478	1	" 4700uf 25V	C67
32				
33				
34				
35	27-250102	1	Cap., Ceramic Disc, .001uf, 25V	C55
36	27-250103	4	" .01uf 25V	C38, 57,44,45
37	27-250104	37	" .1uf 25V	C1-3,5,13-16,19-21, 26,27,31-36,41-43, 48,51,52,54,56,39, 6-11,70,68,69
38	27-250224	1	" .22uf 25V	C71
39				
40				
41	28-101221	1	Cap., Dipped Mica, 220pf 100V	C53
42	28-101101	1	" 100pf 100V	C37,
43				
44				
45				
46	31-A14F	2	Diode, A14F	CR6,7
47	31-5R750	2	Diode, HR750	CR4,5
48	31-1N914	2	Diode, 1N914	CR1,2
49				
50				
51	33-2N3644	1	Transistor, 2N3644	Q1
52				
53	34-2N6044	1	Transistor, 2N6044	Q4
54				
55				
56				
57	37-7400	2	Integrated Circuit, 7400	F8,D0
58	37-7402	1	" 7402	F2
59	37-7404	6	" 7404	E3,E4,M5,J5,L6,M9

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Figure 13 Sprint One PCB Assembly Parts List
-02 Version

Item	Part Number	Qty.	Description	
60	37-7408	5	Integrated Circuit 7408	B2,C2,N3,C5,A6
61	37-7410	1	" 7410	R7
62	37-7414	2	" 7414	A5,L9
63	37-7420	1	" 7420	A8
64	37-7430	1	" 7430	N4
65	37-7432	5	" 7432	A2,C2,P3,F6,J8
66	37-7437	1	" 7437	R9
67	37-7474	2	" 7474	R1,M9
68	37-74S74	1	" 74S74	R8
69	37-7475	2	" 7475	C4,D1
70	37-7483	2	" 7483	L4,M4
71	37-7486	1	" 7486	C7
72	37-7490	1	" 7490	C6/7
73	37-7492	1	" 7492	D8
74	37-9312	1	" 9312	H9
75	37-74153	1	" 74153	M8
76	37-74156	1	" 74156	J9
77	37-74LS163	6	" 74LS163	B5,P5,R5,
78	37-74164	7	" 74164	B7,D7
78A	37-74LS165	6	" 74LS165	B7,B3,J7,K7,L7,M7,
79	37-74166	1	" 74166	R3
80	37-74174	3	" 74174	F5,L5,A7
81	37-74175	1	" 74175	N2
82	37-74279	1	" 74279	M6
83	37-9301	5	" 9301	D2,F2,P7,HH,KN
84	37-9316	5	" 9316	R2,L3,M3,H8,P8
85	37-9322	1	" 9322	H3,J2,K2
86	37-9334	1	" 9334	H8
87	37-555	1	" 555	D7/8
88	37-74367	1	" 74367	C5,K5,E6
89	90-7020	8	"	F3,H3,J3,K3,K4,J4,J4, K4
90	37-LM323	1	Regulator LM323	D9
91	37-TDA1004	1	Op-Amp TDA1004	D9
92				
93				
94				

Item	Part Number	Qty.	Description	
95			Switch, SPST, Momentary	SW3
96	62-001	1	Switch, SPST, Momentary	SW3
97				
99	66-118PIT	1	Switch, SPST, X8, DIP	SW1
100				
101	72-16080C	2	Screws, Pan Hd., Phil., 6-32 x 5 Lg., CRES	
102				
104	75-016	2	Washer, Flat #6	
105	75-056	2	Washer, Lock, Int. Star, #6	
106	75-916C	2	Nut, Hex, #6-32 CRES	
107				
108				
109	78-06001	1	Heatsink, (LM323)	
110	78-06009	1	Heatsink, (TDA1004)	
111	78-17016	A/R	Cement, (TDA1004 Heatsink)	
112	78-16005	1	Silpad (LM323)	
113				
114				
115				
116				
117				
118				
119	79-42049	2	Socket, 40 Pin, Med Insertion	C3
120				
121				
122				
123	90-102	1	Crystal 12.096	Y1
124				
125				
126				
127				
128				
129				
130				

Figure 13 Sprint One PCB Assembly Parts List
-02 Version

Item	Part Number	Qty.	Description	
131				
132				
133				
134				
135				
136				
137				
138				
139				
140				
141				
142				
143				
144				
145				
146				
147	006396-01	1	Sprint Character Prom LSB	F4
148				
149	006397-01	1	Sprint Character Prom MSB	R4
150				
151	006398-01	1	Sprint Race Car Prom LSB	K6
152	006399-01	1	Sprint Race Car Prom MSB	J6
153				
154				
155	006400-01	1	Sprint Sync Prom	M2
156				
157				
158	006401-01	1	Sprint Address Decode Prom	E2
159				
160				
161				
162				
163	006442-01	1	Sprint I Program Rom 1	D1
164	006443-01	1	Sprint I Program Rom 2	E1
165				
166				

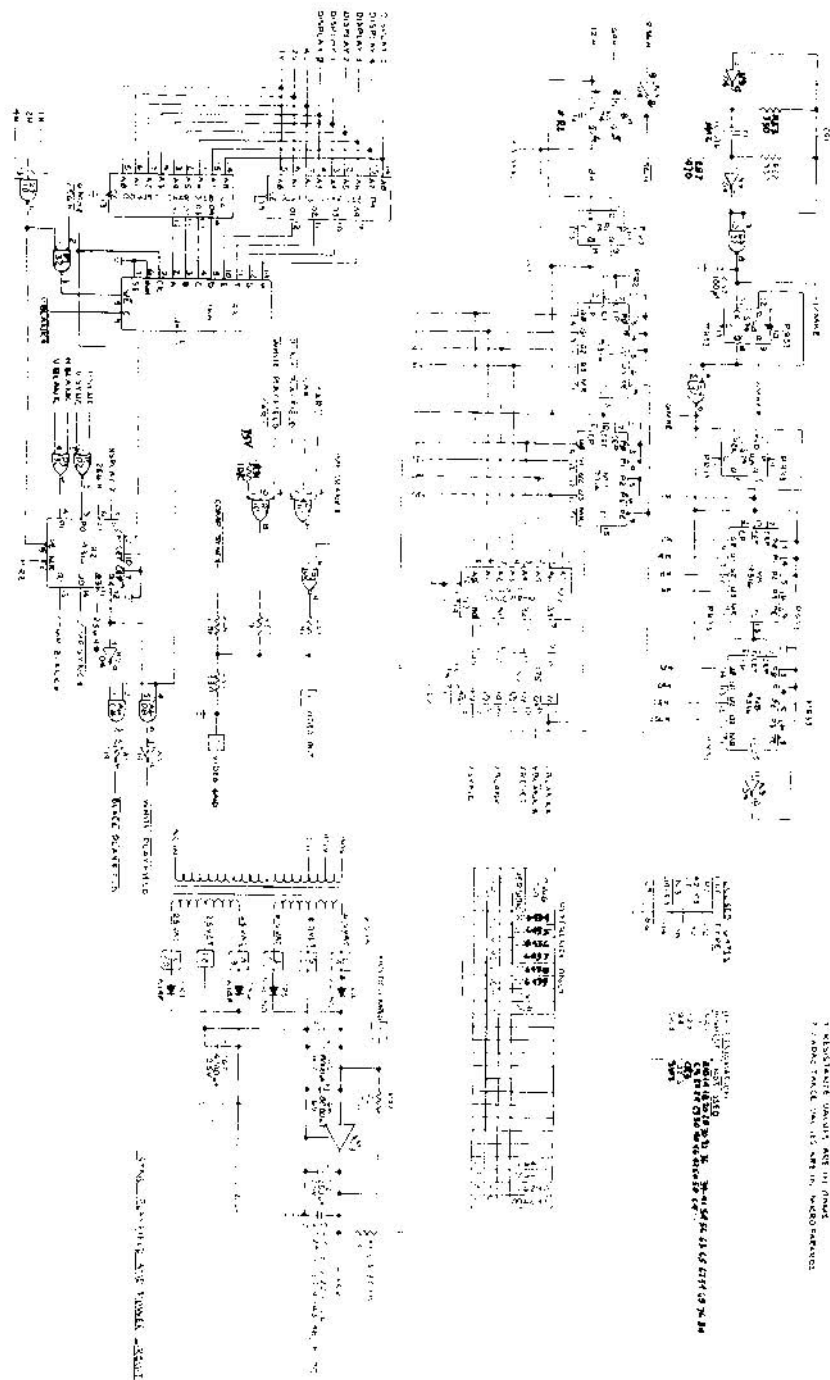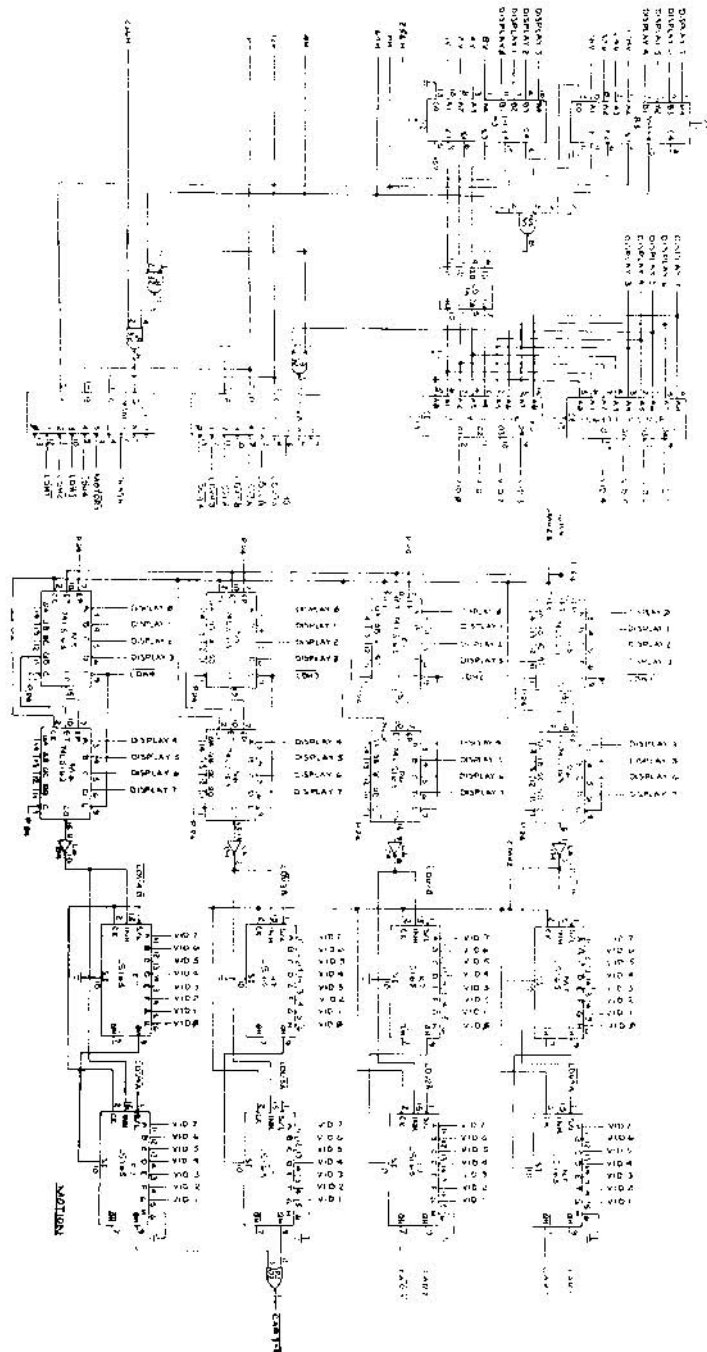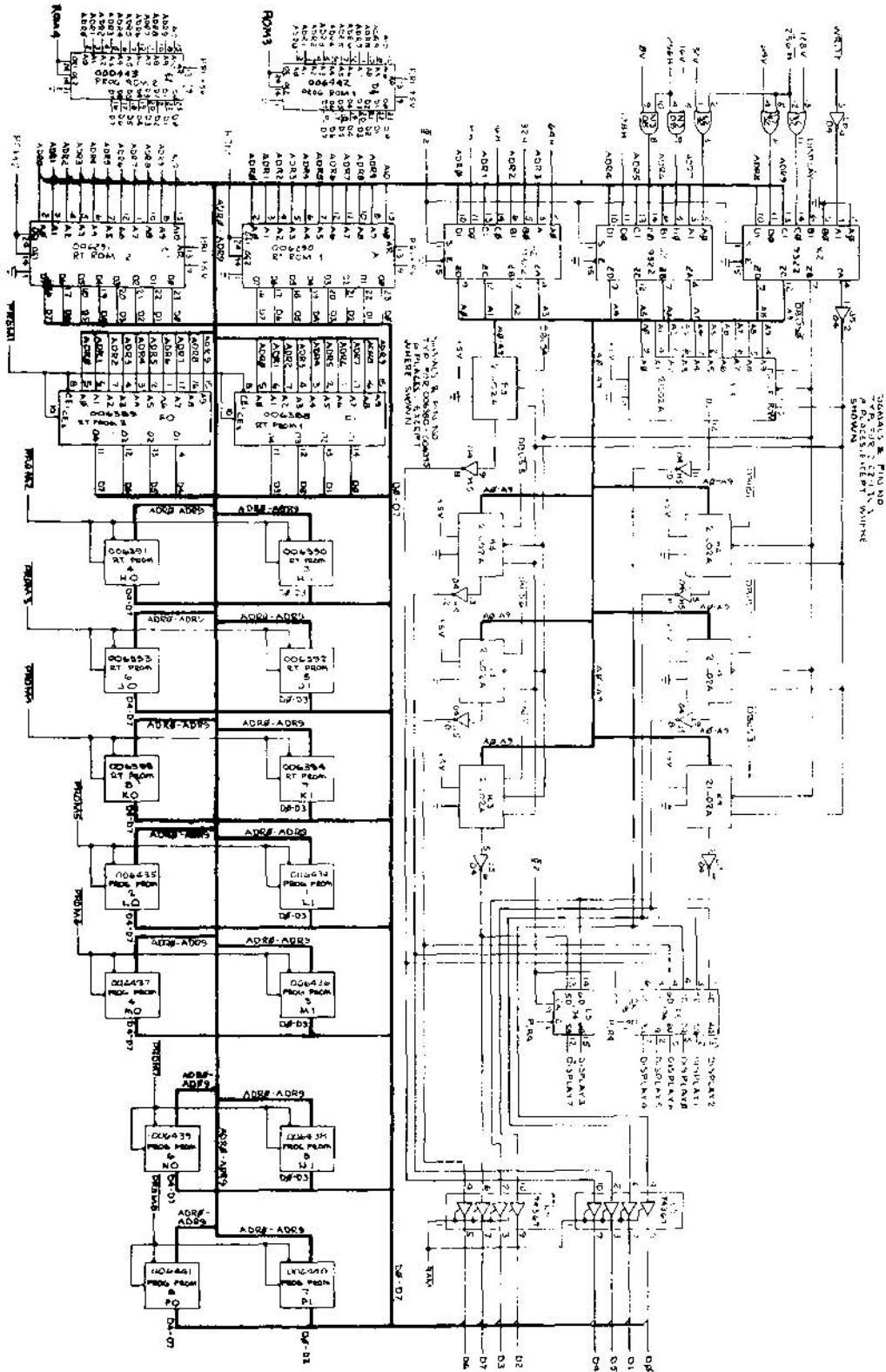| Item	Part Number	Qty.	Description	
167	006290-01	1	Sprint Race Trak Rom 1	D1
168	006291-01	1	Sprint Race Trak Rom 2	C1
169	90-6010	1	Integrated Circuit	C3

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Figure 14   PCB Schematic Diagram
Sheet 1 of 5

Figure 14   PCB Schematic Diagram
Sheet 2 of 5

Figure 14   PCB Schematic Diagram
Sheet 3 of 5

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Figure 14   PCB Schematic Diagram
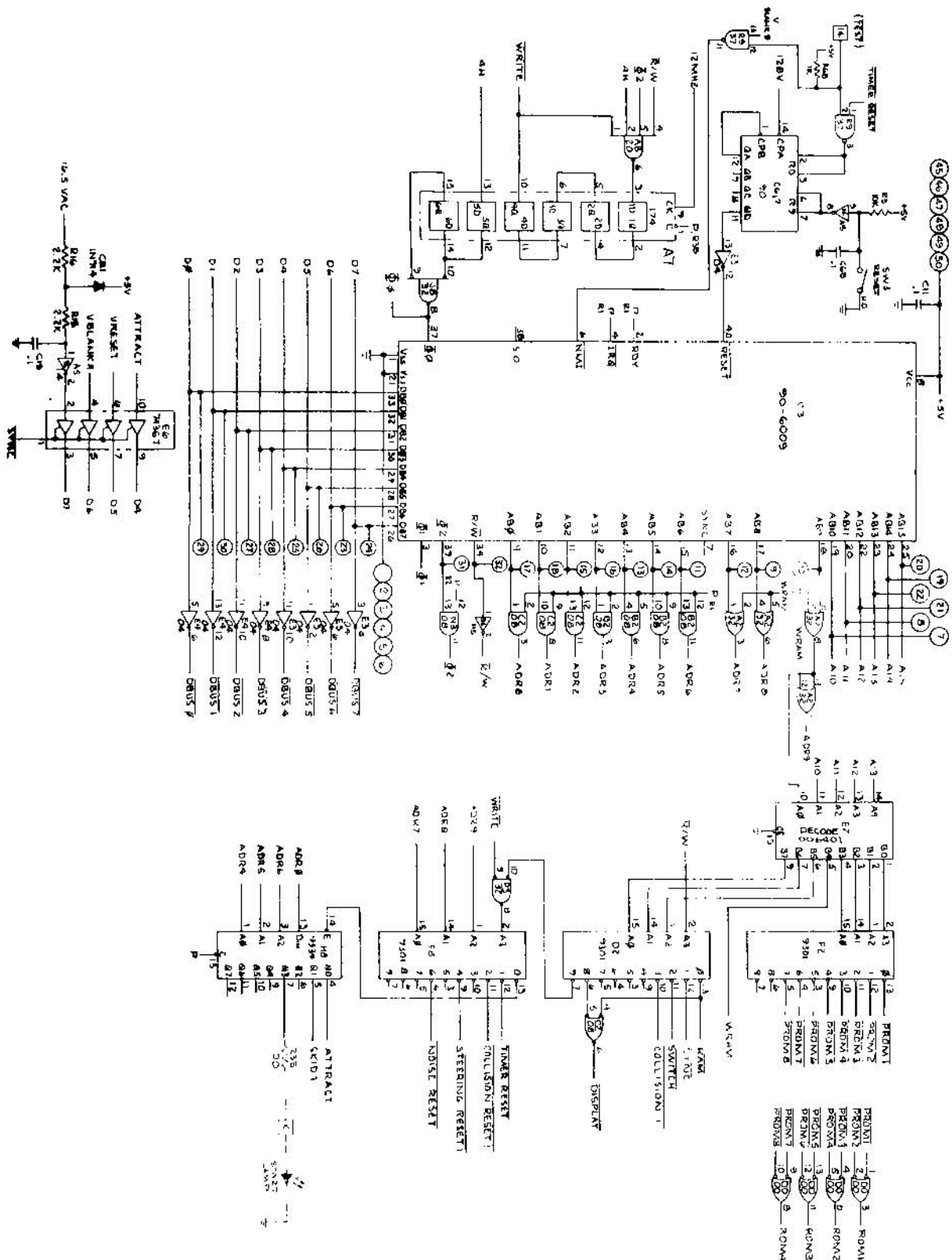Sheet 4 of 5
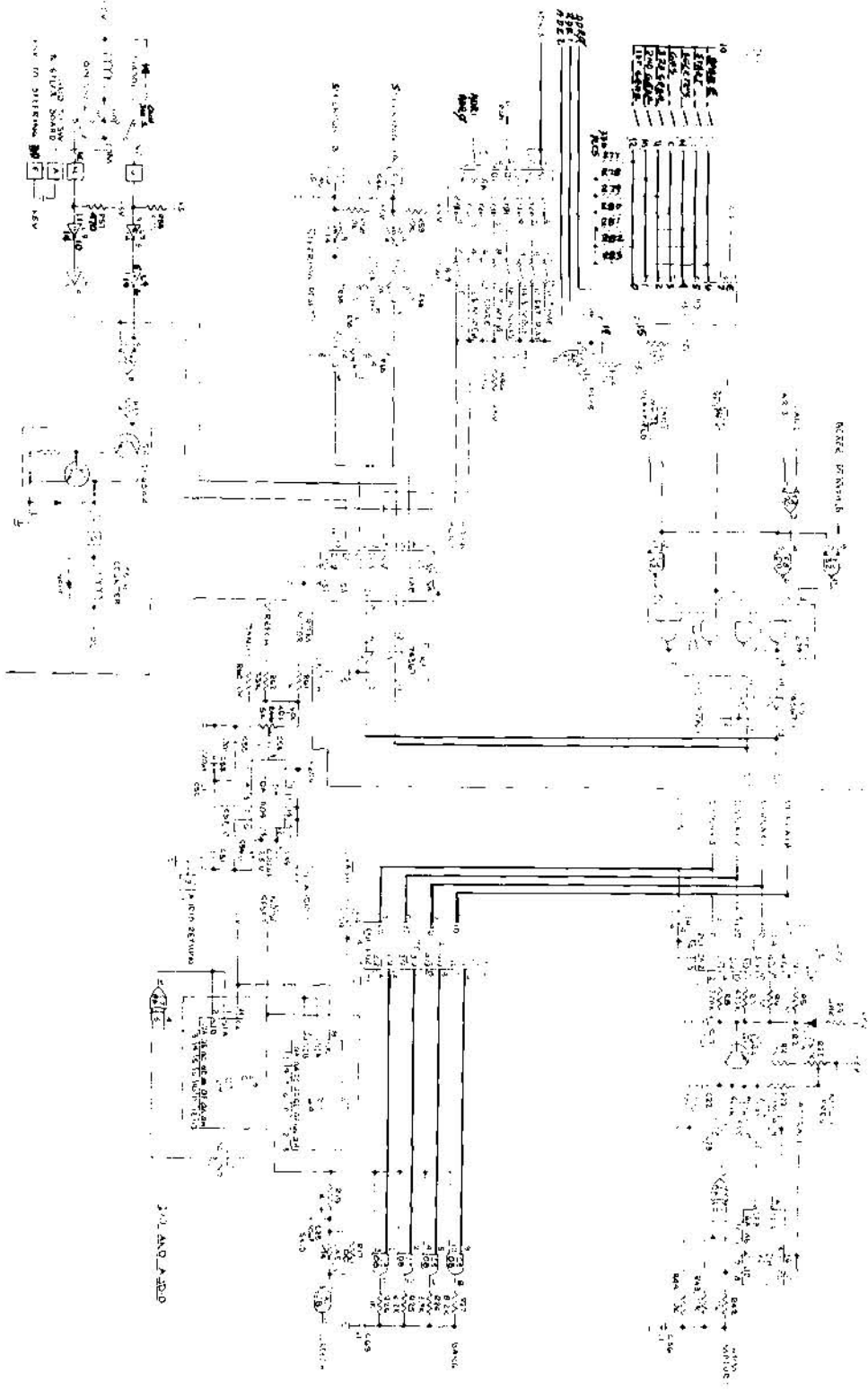
Figure 14   PCB Schematic Diagram
Sheet 5 of 5

2 REQ'D — 7 8 9

SECURE IN FINAL ASSEMBLY

2 REQ'D — 5 4

3

2

1

BLK
BLUE

'A'

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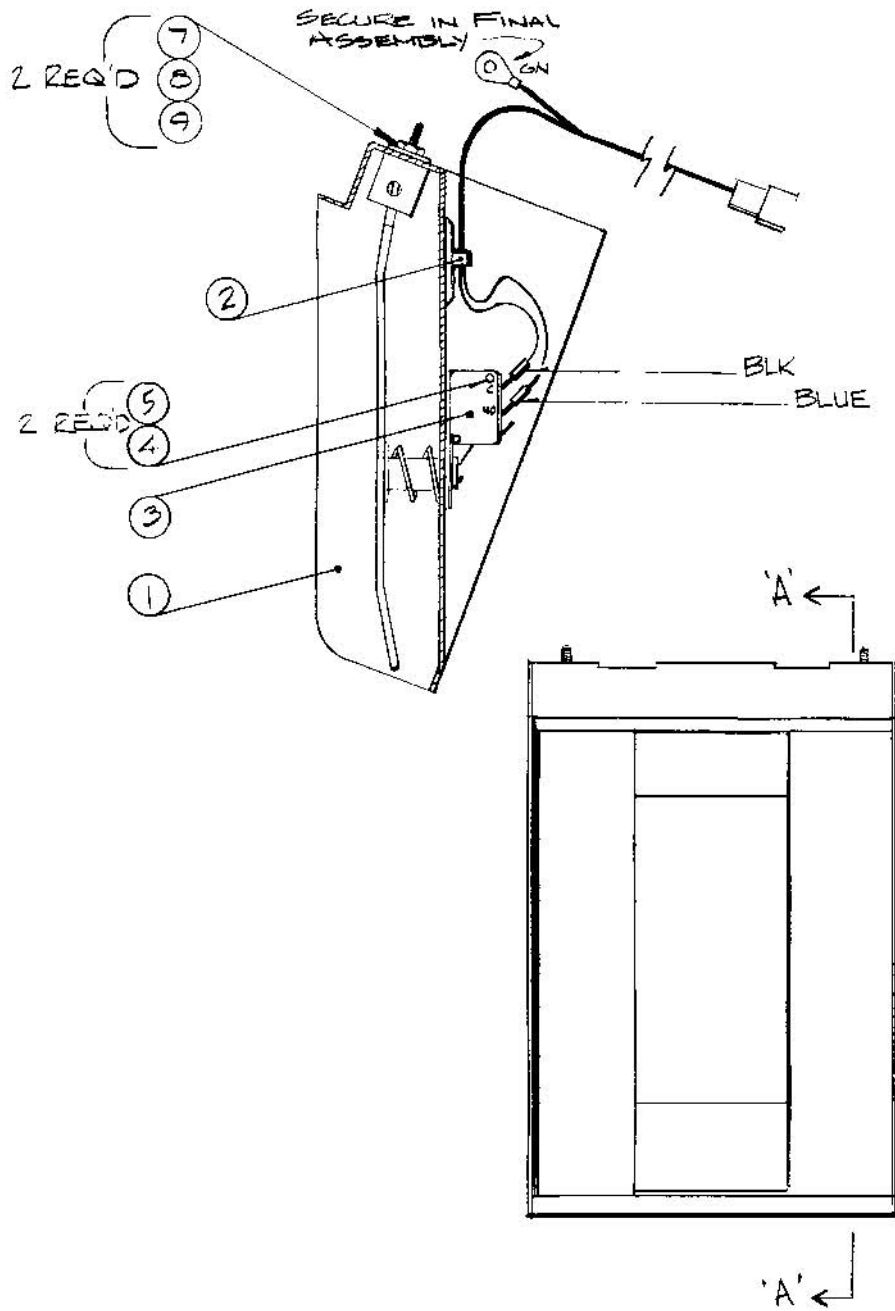
Figure 15   Single Foot Pedal Assembly
With Harness Assembly
A008845-01   C

Figure 15   Single Foot Pedal Assembly
With Harness Assembly
Parts List

Item	Part Number	Qty.	Description
1	A007183-01	1	Foot Pedal Assembly
2	A008955-01	1	Harness Assembly, Foot Pedal
3	A009804-01	1	Assy, Micro Switch & Bracket
4	75-046	2	Lock Washer #6
5	75-916S	2	Nut, Hex, #6-32
6			
7	75-043	2	Washer, Split-Lock, 5/16"
8	75-915S	2	¼"-20 Hex Nut
9	75-5524B	2	Carriage Bolt, Blk, ¼"-20 x 1.50"