

STARSHIP 1° illustrated parts catalog

ATARI INC 1265 BORREGAS AVENUE P.O. BOX 9027 SUNNYVALE, CALIFORNIA 94086 408/745-2000 • TELEX 35-7488



This catalog is a supplement to the Starship l™ Operation, Maintenance and Service Manual, Atari Publication Number TM-085. The purpose of this catalog is to provide you with the necessary information for ordering replacement parts for the Starship l game.

When ordering parts from your distributor, give the part number, part name, applicable page number of this catalog, and the serial number of your Starship 1 game. This will help to avoid confusion and mistakes in your order. We hope the results will be less downtime and more profit from your Starship 1 game.

If there are any questions about this catalog, please contact our Customer Service Department. You may call them Monday through Friday from 7:30 am to 4:00 pm Pacific Time at one of the following numbers:

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Lithographed in the U.S.A.

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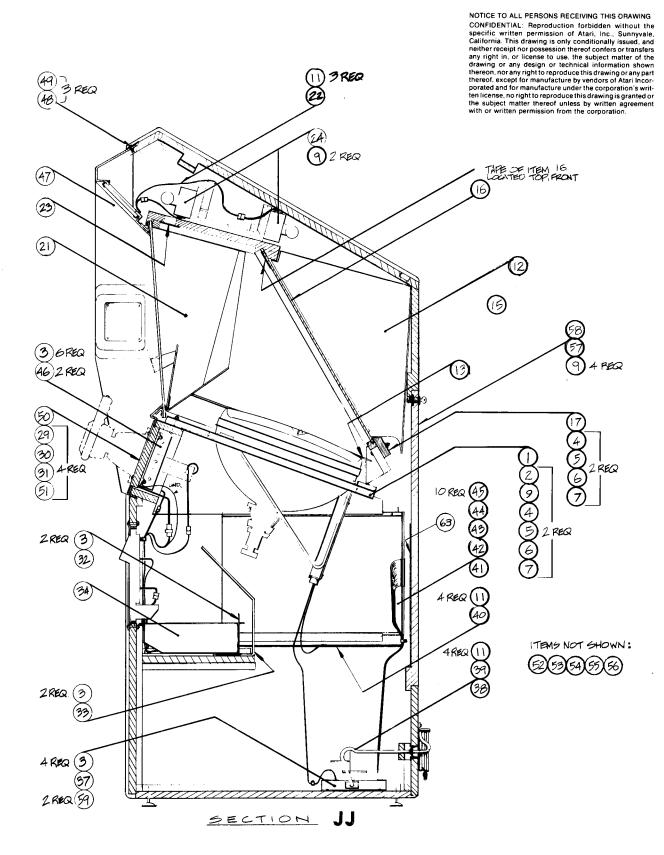


Figure 1 Starship 1 Final Assembly A008575-01 C

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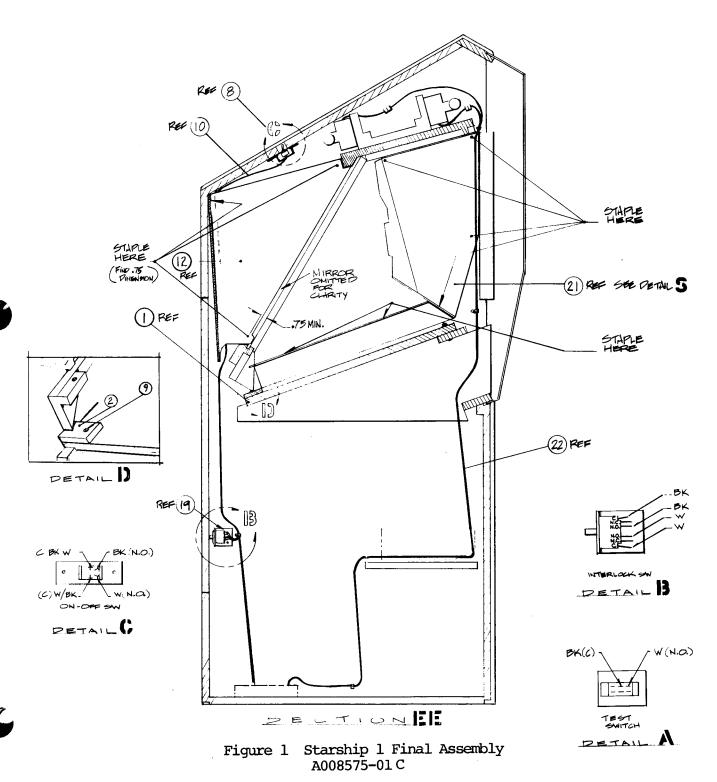


Figure 1 Starship 1 Final Assembly Parts List



Item	Part Number	Qty.	Description
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27	A008577-01 009264-01 72-6812 75-010 5 75-040 75-5132N 75-911S A006449-01 82-1824 A009013-01 72-6610 008579-01 008572-01 006682-01 A009341-01 A008557-01 68-002 000268-02 000268-02 008582-01 A009270-01 009339-01 A008568-01 A006548-01 A006548-01 A009083-01 Or A009083-02 Or A009083-03 Or A009083-05 Or A009083-07	1 2 1 4 4 4 4 1 8 1 22 1 1 1 1 REF	TV Shelf Assy - See Figure 2 Block TV Tray Screw, SM. #8x3/4Lg., Phil Pan Hd. #10 Washer, Split Lock Bolt, Carriage,#10-24x2.00 Lg. #10-24 Nut, Hex On-Off Switch Assy Wood Screw, #8x1.50"Lg. Flat Hd. Phil Power Switch Harness Screw, SM., Pan Hd., Phil., #6x5/8"Lg Rear Bezel W/Starship Graphics Monitor Mask Screen Decal Mirror/Tape Assembly Mirror Tie-Down Panel Assy AC Power Interlock Switch Bracket, Switch Mounting Front Bezel, W/Starship Graphics Fluorescent Light Harness Light Window Overlay Display Light Assembly - See Figure 3 Slide Switch Assembly Cabinet Assembly with Graphics Coin Door Final Assy. for American Quarter Only - See Figure 4 Coin Door Final Assy. for German Mark Only - See Figure 4 Coin Door Final Assy. for Swedish Krona Only - See Figure 4 Coin Door Final Assy. for Japanese 100 Yen Only - See Figure 4 Coin Door Final Assy. for English 10 Pence Only - See Figure 4 Coin Door Final Assy. for Australian 20-Cent Piece Only See Figure 4

Figure 1 Starship 1 Final Assembly Parts List



Item	Part Number	Qty.	Description
28 29 30 31 32 33 34 35 36 37 38 39 41 42 44 45 47 48 49 50 51 55 55 57 57 58 59 60 61 62 63	Part Number 75-5516 B 75-935s 75-045 75-015S 006870-01 009343-01 A007902-01 A007197-01 A007784-01 78-25001 A006912-01 A006912-02 A006685-01 A006694-XX 72-6808 72-6608 001638-01 A006676-01 82-8016 75-99090006 A006673-01 75-5524B 009342-01 TM-085 1PC-085 006305-01 A006683-XX A006647-02 005233-01 46-201202 009345-01 75-9905055 007103-01 ST-085	Qty. 4 4 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Description Bolt, Carriage,#1-20x1.00" Lg, Black Nut,Wing 1-20 Washer Split Lock, 1" Washer, Flat 1" Bracket, Coin Box Yoke Shield Cash Box Assembly Power Cord Assembly Power Cord Assembly Screw Down Tie Wrap Main Harness R.F. Shield Box Assembly Less Stop R.F. Shield PCB Assembly - See Figure 7 PCB Assembly Starship (19.00) - See Figure 8 Screw, SM., Pan., Hd., Phil., #8x½" Lg Screw, SM., Pan., Hd., Phil., #6x½ Lg Bracket Panel MTG Front Housing Assembly Screw, Button Hd. Socket Cap, 10-32x1.00" Lg Well Nut, Blind Hole Fastener, 10-32 Control Panel Assembly - See Figure 9 Bolt Carriage #1-20x1.50" Lg., Black Bonus Time Cover Technical Manual Illustrated Parts Catalog Printed Poly Bag Shipping Container Assembly Rear Door Assembly W/Lock Rear Door Seal Fuse, 2 AMP Seam Cover #1-20 Nylon Lock nuts On/Off switch cover Self-test chart
		1	Self-test chart

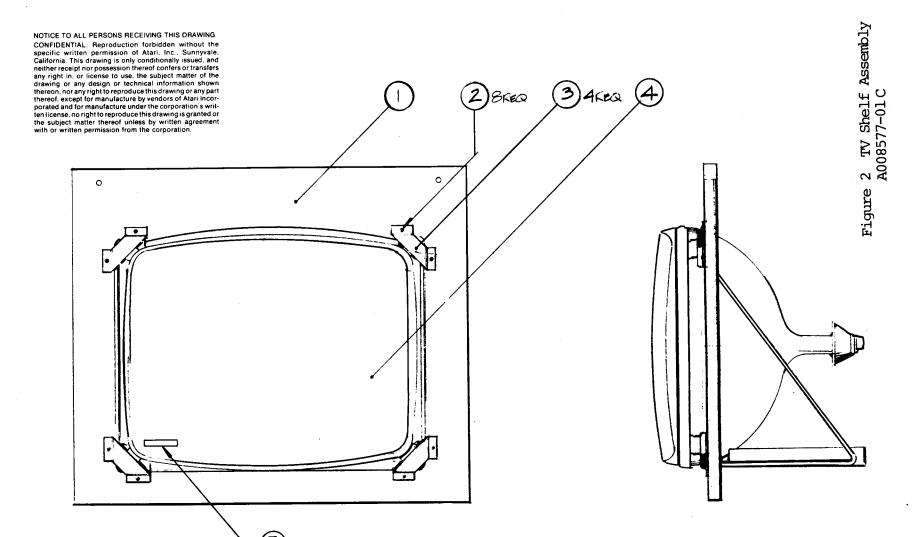


Figure 2 TV Shelf Assembly Parts List



Item	Part Number	Qty.	Description
1	008556-01	1	T.V. Shelf
2	72-6812	8	Screws, Self Tapping, #8 x 3/4 Phil. Pan Hd
3	005594	4	Monitor Tie Down
4	92-032	1	23-inch TV Monitor, Motorola Model M7000-155
	or 92-030		23-inch TV Monitor, TEC Model TM-623
5	006319-02	1 1	Copyright Decal
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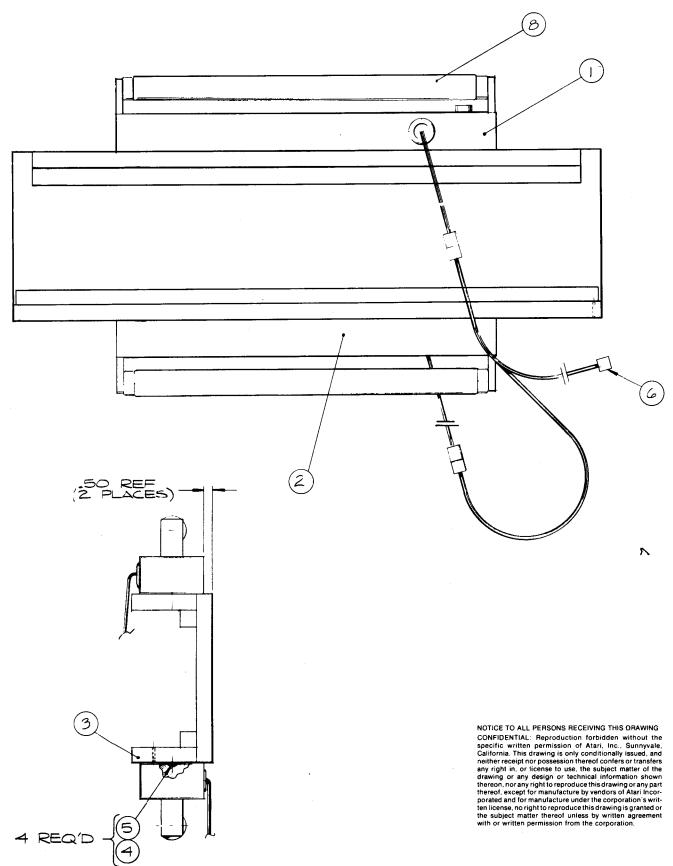


Figure 3 Display Light Assembly A008568-01B

Figure 3 Display Light Assembly Parts List



Item	Part Number	Qty.	Description
1	A008860-01	l Qty.	Description Black Light Assembly 18"
2	A005495-01	1	18-Inch Fluorescent Light Assembly
3	A008561-01	1	Light Mount Assembly
4	72-6812	4	
5	75-010S	4	#8 x 3/4" S.M. Screw Washer Flat, #10
6	A009270-01	1 1	Fluorescent Light Harness
7			
8	70-306	1	Fluorescent Tube 18" (F15 T8/BL)
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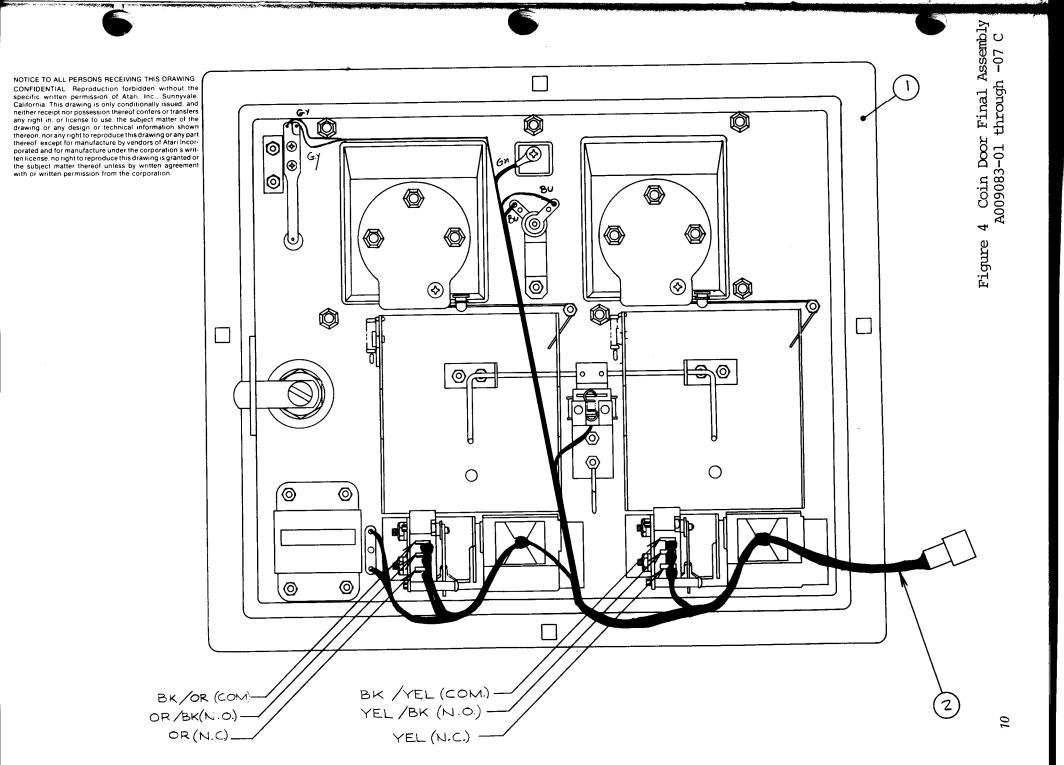


Figure 4 Coin Door Final Assembly Parts List



Item	Part Number	Qty.	Description
1	A006794-01 A006794-02 A006794-03 A006794-04 A006794-05 A006794-06 A006794-07	Ref. Ref. Ref.	Coin Door Assy. for German Mark Only - See Figure 5. Coin Door Assy. for Swedish Krona Only - See Figure 5. Coin Door Assy. for Japanese 100 Yen Only - See Figure 5. Coin Door Assy. for English 10 Pence Only - See Figure 5. Coin Door Assy. for Australian 20-Cent Piece Only - See
2	A006921-01	1	Figure 5.

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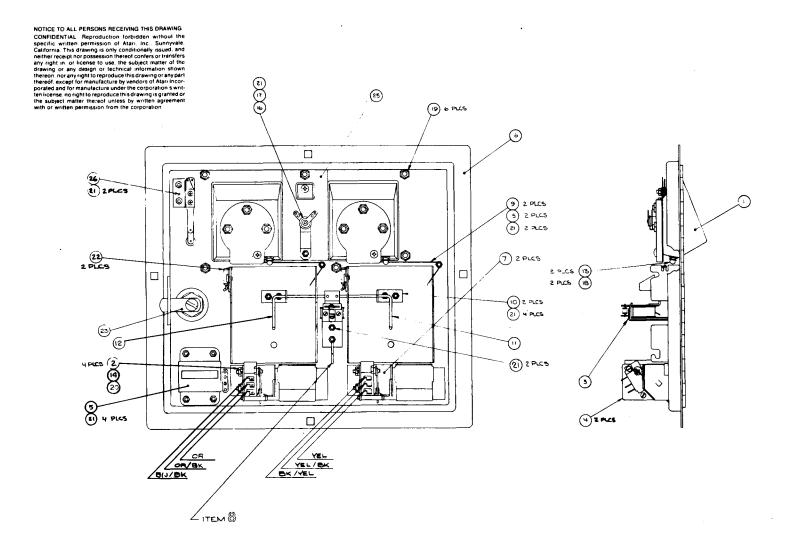


Figure 5 Coin Door Assembly A006794-01 through -07 C

Figure 5 Coin Door Assembly Parts List



Item	Part Number	Qty.	Description
1	A007637-01 A007637-02 A007637-03 A007637-04 A007637-05 A007637-06 A007637-07	Ref. Ref. Ref. Ref. Ref. Ref.	Front Bezel Assy Used only on -01 Coin Door Assy. Front Bezel Assy Used only on -02 Coin Door Assy. Front Bezel Assy Used only on -03 Coin Door Assy. Front Bezel Assy Used only on -04 Coin Door Assy. Front Bezel Assy Used only on -05 Coin Door Assy. Front Bezel Assy Used only on -06 Coin Door Assy. Front Bezel Assy Used only on -06 Coin Door Assy. Front Bezel Assy Used only on -07 Coin Door Assy.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	75-9165 A007639-01 A007640-01 A002465-01 004320-01 004341-01 004344-01 004337-01 004338-01 004336-01 004326-01 75-046 006904-01 007359-01 70-11-47 73-3008 75-9914001 75-026S 75-00516 008629-01 71-2118 71-1225CU 71-125FB 71-121MG 71-121KS 71-121MS	4 1 2 1 2 2 2 1 2 4 2 1 1 2 6 4 13 2 Ref. Ref.	Nut 6-32 Coin Lock-Out Assembly Coin Switch Assembly Coin Counter Assembly Coin Door Weldment Secondary Coin Chute Key Loop Spring-Return Bracket, Wire Form Lock-Out, Wire Form, R.H. Lock-Out, Wire Form, L.H. Button, Scavenger Lock Washer, #6 Spacer Lamp Socket Lamp Retaining "C" Ring, Truarc #5103-25 Self-Threading Nut, Tinnerman #SR188006 Washer #6 Kepnut, Style 842, Stl., 6-32 Spring Lock Assembly, Hudson Lock Coin Mechanism for American Quarter only Coin Mechanism for German Mark only Coin Mechanism for Swedish Krona Only Y Coin Mechanism for Swedish Krona Only Coin Mechanism for Japanese 100 Yen Only
25 26	71-1210PE 71-1220CA 007753-01 A007638-01	Ref. Ref.	Coin Mechanism for English 10 Pence Only Coin Mechanism for Australian 20-Cent Piece only Plate, Anti-Probe Switch Assembly - Slam

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Figure 6 Power Supply Assembly A007197-01D

Figure 6 Power Supply Assembly Parts List



Item	Part Number	Qty.	Description
	A009266-01	1	
1 2	A009266-01 A006886-01	1 1	Power Supply Base Weldment Assembly Transformer Termination Assembly
3	29-053	1 1	Cap., Sprague Electrolytic 26,000 uf @ 15V
4	78-70501SC	1 1	Brkt., Cap. Mtg. Sprague #4586-48
5	A006555-01	1 1	P.C. Board Rectifier
6	M000333-01	*	r.c. board Rectifier
7	79-4411004	2	Fuse Holder, Panel Mounting
8	41-2003	ī	Filter, Power Line, 5 AMP
9	A006958-01	A/R	Volt Sel. Block 95V
10	A006958-02	11/10	Volt Sel. Block 110V
11	A006958-03	1 "	Volt Sel Block 205V
12	A006958-04	,,,	Volt Sel. Block 220V
13	78-2708	1 1	Grommet, Plastic
14	72-1808S	3	Screw Pan Hd., #8-32 x ½" Lg.
15	72-1812S	6	Screw Pan Hd., #8-32 x 3/4" Lg.
16	75-058	9	Washer, Lock, Internal Star #8
17	75-918s	9	Nut Hex #8
18	75-018s	4	Washer Flat #8
19	A007192-01	l i l	Power Switch Termination
20	A007444-01	1 1	Power In Harness
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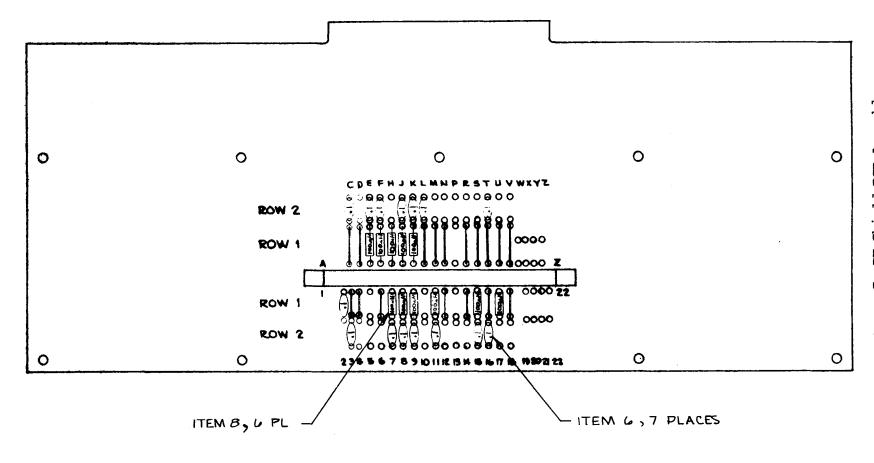


Figure 7 RF Shield PCB Assembly A006685-01A

Figure 7 RF Shield PCB Assembly Parts List



- 1			D
Item	Part Number	Qty.	Description
1	006549-01	1	P.C. Board
2	517222	1	Connector, 44 Pin P.C. Mount Cap, Cer Disc 0.1µf 25V
3 4	27-25010 4 52-003	8 10	Jumper, .60 Centers
5	52-003	7	Jumper, .30 Centers
6	27-A250104	7	Cap, Cer. Disc, 0.1µf 25V (Bottom Row)
7	41-3003	5	
8	41-3004	6	Inductor, 100µh (Large)
$ $	41-3004	0	Inductor, 100µh (Small, Bottom Row)
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PROM/ ROM DASH VERSION	10-215100	10-514-01	10-512100	10-915100	10-715700	10-815100	10-615100	007520-02	007521-02	007522-02	007523-02	007524-02	007525-02	001526-02	007527-02	007528-02	007529-02	001530-02	007531-02
-01	N7	N9	J5	PΙ	RI	RIO	B 5	ні	Н2	FI	F2	E/F 1	E/F2	P/E1	D/E 2	رم ²	4/02		
-02	Ν7	N9	J5	PΙ	R١	RIO	85									%	^c / _{D2}	Н3	E 3

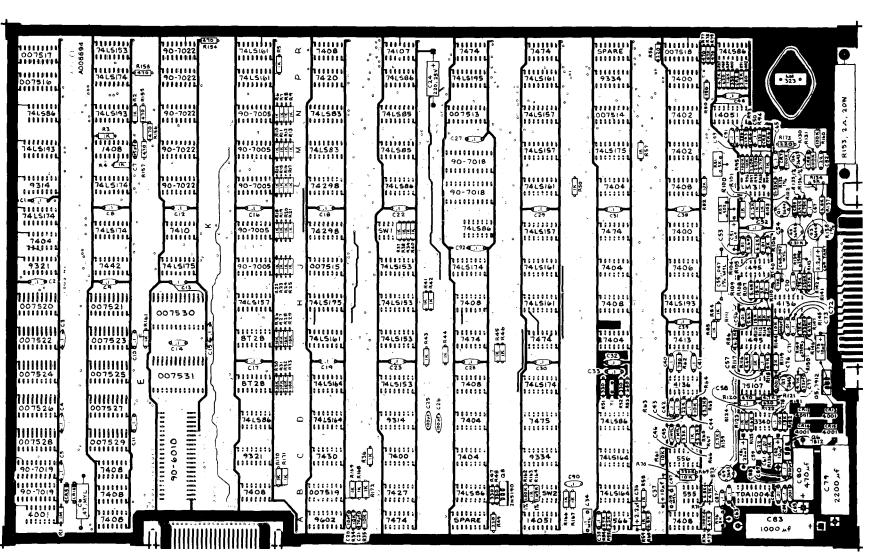
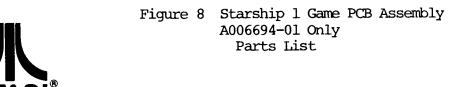


Figure 8 Starship 1 Game PCB Assembly A006694-01 & 02 C



Item	Part Number	Qty.					I	Эe	scri	ption		
1	006695-01	1	P.C.	Boar	đ							
2	10-5151	1	Res.	Car.	Comp.	1 ₄	W	,	5%,	150	ОНМ	R80
3	10-5221	3	11	••	11	"	11		n	220	25	R49,56,173
4	10-5331	7	"	11	**	**		**	16	330	н	R47,48,51,52,90,93,94
5	10-5471	9	# ,	"	11	11		**	**	470	11	R77-79,120,154-158
6	10-5181	1	**	"	11	,	,	**	**	180	"	R92
7	10-5621	2	19	n	"	**		11	"	620	11	R88,122
8	10-5681	1	í,	11	"	**	"		11	680	11	R53
9	10-5751	1	**	"	be	**	1	**	11	750	u	R62
10	10-5102	59	11	ti	11	11		••	11	1K	"	R2-25,36-46,50,57-59 67,84,85, 99,100,102 103,117,123,124,126, 161,163,166,167-172
11												, , , , , , , , , , , , , , , , , , , ,
12	10-5152	1	11	tt	п	**	•	11	"	1.5%	. "	R152
13	10-5162	2	11	**	Ħ	**	•	**	"	1.68	. "	R89,125
14	10-5202	1	"	11	11	"	,	**	"	2K	. "	R119
15	10-5222	3	"	19	11	11	,	**	`11	2.2K	. "	R91,101,159
16	10-5302	6	11	"	11	11	"		Ħ	31	. "	R106,109,110,113-115
17	10-5332	2	11	11	11	n	1	**	17	3.3K	. "	R65,68
18	10-5472	3	(1	**	"	77	,	.,	"	4.78	; "	R87,121, 150

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	DART	LIST	SPEC	FICA	TION					Page 2 of 7
			51 150		11011					Page 2 of 7
Item	Part Number	Qty.	ļ					cription		
19	10-5562	4	Res,	Car.	Comp.	¼ W	5%,	5.6K	ОНМ	R104,107,111,116
20	10-5622	2	"	n	**		"	6.2K	17	R86,105
21	10-5682	3	"	"	н	"	"	6.8K	"	R71,137,60
22	10-5103	18	"	**	н	**	"	10K	W	R26-35,61,64,70, B2,96,140,144,151
23	10-5153	2	,,		19	**	• 7	15K		R108,112
24	10-5223	2	n	17		,,		22K	"	R55,63
25	10-5333	1	"	"	и	**	"	33K	"	R66
26	10-5473	6			н	**	н	4 7K	и	R54,72,75,118,143, 147
27	10-5753	2	"	н	"	н	**	75K	н	R141,145
28	10-5104	5	"	**		н	"	100К	N	R74,95, 130,131,
29	10-5224	3	11	17	11	11	"	220K	"	R97,98,142
30	10-5334	2		**	••	tr	**	330K	**	R69,146
31	10-5105	1	Res,	Car.	Comp.	¹₄ W	5%	1M OHM	l	Rl,
32	14-1472	1	"	**	Film	"		4.75K		
33	14-1392	1	"	"	"	"	"	3.92K	"	R135
34	14-1122	1	" "	"	"	"	"	1.21K	.,	R138
35	14-1132	1	"	"	,,			1.33K		R132
36	19-8D9W2P0	1	Res,	Wire	wound	2 ОН	М,	20 W		R153
37										
38	19-315502	3	Trin	npot,	5к они	1				R76,81, 134
39	19-315503	1	,,	5	OK OHM	Í				R83
40	19-315254	2	"	25	OK OH	I				R139,149
41	21-101473	1	Cap,	Myla	r,.047	/µf 1	oov			C68
42	21-101153	1	Cap,	Myla	r, .01	5µf	100	v		C47
43	21-101104	3	Cap,	Myla	r, .1	μf l	V00			C34,45,46
44	21-101474	1	Cap,	Myla	r, .47	/µf 1	v00.			C6

	PARTS	LIST	SPECIFICATION	Page 3 of 7
Item	Part Number	Qty.	Description	
45	24-250105	1	Cap, Elect laf 25%	C51
46	24-250225	1	" " 2.2pf 25V	C36
47	24-250106	3	" " 10pf 25V	C37,62, 75
48	24-250221	1	" " 220µf 25V	C24,
49	24-250477	1	Cap, Elect 470µf 25V	Ç80
50	24-250226	1	" " 22pf "	C81
51	24-250108	1	" " 1000pf "	C83
52	27-250103	6	Cap, Cer Disc .01µf 25V	C53,54,56,61,72,86
53	27-250104	52	" " " 0.1μf 25V	C1-5,8-19,22,23,27- 33,35,38-44,48-50, 52,57,58,63,65,67, 70,73,78,84,87,89,
54	27-250224	2	Cap, Cer Disc .22µf 25V	90,91,92 C59,82
55	27-250102	1	" " " .001pf "	C85
56	28-101100	1	Cap, Dipped Mica 10pf 100V	C20 .
57	28-101150	1	" " " 15pf 100V	C7
58	28-101220	1	" " 22pf 100V	C77
59	28-101101	3	" " 100pf 100V	C25,26,71
60	28-101471	1	" " 470pf 100V	C21
61	28-101102	1	" " 1000pf 100V	C76
62	28-101221	1	" " " 220pf 100V	C88
63	29-010	1	Cap, Tantalum 2.2µf 10V	C69
64	29-063	1	Cap, Polycarbon, .047µf,50V,1%	C55
65	24-250228	1	Cap, Elect 2200µf,25V	C79
66	31-1N914	10	Diode, 1N914	CR1-9,16
67	31-1N4001	4	Diode, 1N4001	CR12-15
68				
69	33-2N3644	3	Transistor, 2N3644	Q1-3
70	34-2N3643	3	Transistor, 2N3643	Q4,7,9
		-		

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Figure 8 Starship 1 Game PCB Assembly A006694 - 01 Only Parts List



	PART	S LIST	SPECIFICATION	Page 4 of 7
Item	Part Number	Qty.	Descri	ption
71	34-2N5190	1	Transistor, 2N5190	Q8
72				
73	37-7400	3	I.C. 7400	C6,K10,P10
74	37-7402	2	I.C. 7402	M10,N10
75	37-7404	6	" 7404	C7,D7,F9,J9,L9,J/K]
76	37-7406	1	" 7406	,310
77	37-7408	10	" 7408	A2,B2,C2,B4,R5,E7, H7,H9,A10,L10
78	37-7410	1	" 7410	К3
79	37-7413	1	" 7413	F10
80	37-7420	1	" 74 20	P5
81	37-7427	1	" 7427	В6
82	37-7430	1	" 7430	C5
83	37-7442	1	" 7442	J2
84	37-7474	6	" 7 474	A6,F7,R7,F8,F8,K9
85	37-74LS83	2	" 74LS83	M5,N5
86	37-74LS85	2	" 74LS85	M6,N6
87	37-74LS86	8	" 74LS86	N1,D4,L6,P6,D9,R11
88	37-74107	1	" 74107	в7,К7 R6
89	37-74LS153	5	" 74LS153	R2,E6,F6,H6,J6
90	37-74LS157	4	" 74LS157	H4,K8,M8,N8
91	37-74LS161	7	" 74LS161	P4,R4,F5,H8,J8,L8, P8
92	37-74LS164	4	" 74LS164	D5,E5,B9,C9
93	37-74LS174	6	" 74LS174	K/ L1,K2,L2,P2,J7,E8
94	37-74LS175	2	" 74IS175	J3,M9
95	37-74LS193	3	" 74LS193	M1,N2,H10
96	37-74LS195	2	" 74LS195	H5,P7
97	37-74298	2	" 7 4 298	K5,L5

	PARTS	LIST	SPECIFICATION	Page 5 of 7
Item	Part Number	Qty.	Description	
98	37-555	1	I.C. 555	B10
99	37-556	1	" 556	C10
100	37-566	1	" 566	A 9
101	37-1408	1	" 1408	м2
102	37-1495	2	" 1495	F11,J11
103	37-75107	1	" 75107	Ell
104	37-9314	2	" 9314	L1,D6
105	37-9321	2	" 9321	J1,C4
106	37-9334	2	" 9334	C8,P9
107	37-9602	1	" 9602	A5
108	37-4001	1	" 4001	Al
109	37-8T2 8	2	" 8T28	E4,F4
110	37-LM319	1	" LM319	L11
111	37-TDA1004	1	OP.AMP. TDA1004	Bll
112	37-14051	2	I.C. 14051	A8,N11
113	37-4136	2	" 4136	E10,H12
114	37- MC3340P	1	" MC3340P	D11
115	37-LM323	1	Regulator LM323	
116	37-7812	ı	Regulator +12V 7812	Q6
117	37-7912	1	Regulator -12V 7912	Q5
118	37-7475	1	I.C. 7475	D8
119				
120	90-6010	1	I.C.	С3
121	90-7005	5	RAM, 82S25	J4,K4,L4,M4,N4
122	90- 7022	5	RAM, 82S17	L3,M3,N3,P3,R3
123	90-7018	2	RAM, 2101A-2	M7, L7
124	90-7019	2	RAM, 2111A-4	B1,C1
125	78-06001	1	HEATSINK, LM323	
1		1 1	1	

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	PART	S LIST	SPECIFICATION Page 6 of 7
Item	Part Number	Qty.	Description
126	66-114P1T	2	DIP switch, 4PST (SW1) (SW2) K6,B8
127	90-102	1	Crystal, 12.096 MHZ Yl
128	79-42040	1	Socket, 40 Pin C3
129	78-06C22	1	Heatsink, TDA1004
130	78-16005	1	Silpad
131	72-1608C	2	Screw, Mach., Pan Hd. Phil #6-32 x 1/2 Cres
132	75-016s	2	Washer, Flat #6
133	75-056	2	Washer, Lock, Int Star #6
134	75-916C	2	Nut, Hex, #6-32 Cres
135	78-13016	A/R	Cement, TDA1004 Heatsink
136	007513-01	1	PROM, Alpha-Numerics N7
137	007514-01	1	" Sync N9
138	007515-01	1	" Object J5
139	007516-01	1	" Spaceship Z2 Pl
140	007517-01	1	" Spaceship Zl Rl .
141	007518-01	1	" Video Output R10
142	007519-01	1	" Address B5
143			
144			
145			
146	007520-02	1	PROM, Program 3000-0 H1
147	007521-02	1	" " 3000-1 H2
148	007522-02	1	" " 3400-0 F1
149	007523-02	1	" " 3400-1 F2
150	007524-02] 1]	" " 3800-0 E/Fl
151	007525-02	1	" " 3800-1 E/F2
152	007526-02	1	" " 3C00-0 D/E1
153	007527-02	1	" " 3C00-1 D/E2
154	007528-02	1	" " 2C00-0 C/D1
155	007529-02	1	" " 2C00-1 C/D2
		ــــــــــــــــــــــــــــــــــــــ	<u> </u>

	PARTS	LIST	SPECIFICATION	Page 7 of 7
Item	Part Number	Qty.	Description	
156	10-5272	1	Res, Carbon, W,5%, 2.7K Ohm	R165
157				
158	14-1102	1	Res, Film, W, 1%, 1.00K Ohm	R162
159	14-1162	1	" " " 1.69K Ohm	R164
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Figure 8 Starship 1 Game PCB Assembly A006694 - 01 Only Parts List

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Item	Part Number	Qty.					De	escri	ption		
1	006695-01	1	P.C.	Boar	đ						
2	10-5151	1	Res.	Car.	Comp.	1/4	W.	5%,	150	ОНМ	R80
3	10-5221	3	**	"	**		"	"	220	a	R49,56,173
4	10-5331	7			**	"	"	"	330	**	R47,48,51,52,90,93,94
5	10-5471	9	"	u	н	"	**	n	470	"	R77-79,120, 154-158
6	10-5181	1	41	**	**	11	*1	"	130	"	R92
7	10-5621	2	.,	н	n	,,	**	"	620	"	R88,122
8	10-5681	1	"	н	**	"	11	"	680	**	R53
9	10-5751	1	"	"	n	11	•	"	750	"	R62
10	10-5102	59	11	"	n	n	11	"	1K	**	R2-25,36-46,50,57-59 67,84,85, 99,100,102 103,117,123,124,126, 161,163,166,167 -172
12	10-5152	1			,,	*1	н	"	1.5K		R152
13	10-5162	2	п	н	.,	"	"	"	1.6K		R89,125
14	10-5202	1	"	11	н	**	"	н	2K	**	R119
15	10-5222	3	11	**	**	"	"	**	2.2K	"	R91,101,159
16	10-5302	6	"	"	**	**	"	"	3K	н	R106,109,110,113-115
17	10-5332	2	11	"	**	11	"		3.3K	"	R65,68
18	10-5472	3	"	н	п	n	••	11	4.7K	"	R87,121,150

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		PARTS	LIST	SPECI	FICA	TION					Page 2 of 6
Ī	Item	Part Number	Qty.				I	Desc	ription	1	
Ī		10-5562	4	Res,	Car.	Comp.	A M	5%,	5.6K	OHM	R104,107,111,116
	20	10-5622	2	"	"	**	"	"	6.2K	11	R86,105
	21	10-5682	3		11	"		"	6.8K	н	R71,137,60
	22	10-5103	18	"	Ħ	u	"	"	10K	"	R26-35,61,64,70, 82,96,140,144,151
	23	10-5153	2			"	m	"	15K	u	R108,112
,	24	10-5223	2	٠.	11	**	**	"	22K	11	R55,63
	25	10-5333	1	,,	11	**	"	"	33K	"	R66
	26	10-5473	6	,,	"		,,	"	47K		R54,72,75,118,143,
	27	10-5753	2	*	"		н	"	75K	"	R141,145
	28	10-5104	5	-	**	н		н	100K	"	R74,95, 130,131,
	29	10-5224	3	,,		19		"	220K	*	160 R97,98,142
	30	10-5334	2	"	.,	19	**	"	330K	"	R69,146
,	31 32 33 34 35 36 37	10-5105 14-1472 14-1392 14-1122 14-1132 19-8D9W2P0	1 1 1 1 1 1 1 3	Res,	" " " Wire	Comp. Film " wound	" " " " " " " " " " " " " " " " " " "	1%	1M OHN 4.75K 3.92K 1.21K 1.33K	OHM "	R1 R136 R135 R138 R132 R153
	39	19-315503	1	"	5	ок онм					R83
	40	19-315254	2	"	25	ок онм					R139,149
	41	21-101 473	1	Cap,	Myla	r,.047	μ£ 1	00V			C68
	42	21-101153	1	Cap,	Myla	r, .01	5µf	100	v		C47
	43	21-101104	3	Cap,	Myla	r, .1	μf l	00 v			C34,45,46
	44	21-101474	1	Cap,	Myla	r, .47	μf 1	00V			C6
1			<u> </u>	Ц							

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	PART	S LIST	SPECIFICATION	Page ³ of 6
Item	Part Number	Qty.	Description	
45	24-250105	1	Cap, Elect lpf 25V	C51
46	24-250225	1	" " 2.2µf 25V	C36
47	24-250106	3	" " 10µf 25V	C37,62, ,75
48	24-250227	1	" " 220µf 25V	C24,
49	24-250477	1	Cap, Elect 470mf 25V	C90
50	24-250226	1	" " 22µf "	C81
51	24-250108	1	" " 1000pf "	C83
52	27-250103	6	Cap, Cer Disc .01µf 25V	C53,54,56,61,72,86
53	27-250104	52	" " " 0.1μf 25V	C1-5,8-19,22,23,27- 33,35,38-44,48-50, 52,57,58,63,65,67, 70,73,78,84,87,89, 90,91,92
54	27-250224	1	Cap, Cer Disc .22µf 25V	C59
55	27-250102	1	" " ".001µf "	C85
56	28-101100	1	Cap, Dipped Mica 10pf 100V	C20
57	28-101150	1	" " " 15pf 100V	C7
58	28-101220	1	" " " 22pf 100V	C77
59	28-101101	3	" " 100pf 100V	C25,26,71
60	28-101471	1	" " 470pf 100V	C21
61	28-101102	1	" " 1000pf 100V	C76
62	28-101221	1	" " " 220pf 100V	C88
63	29-010	1	Cap, Tantalum 2.2µf 10V	C69
64	29-063	1	Cap, Polycarbon, .047µf,50V,1%	C55
65	24-250228	ı	Cap, Elect ,2200µf, 25V	C79
66	31-1N914	10	Diode, 1N914	CR1-9,16
67	31-1N4001	4	Diode, 1N4001	CR12-15
68				
69	33-2N3644	3	Transistor, 2N3644	Q1-3
70	34-2N3643	3	Transistor, 2N3643	Q4,7,9

	PARTS	LIST	SPECIFICATION	Page 4 of 6
Item	Part Number	Qty.	Description	
71	34-2N5190	1	Transistor, 2N5190	δ8
72				
73	37-7400	3	I.C. 7400	C6,K10,P10
74	37-7402	2	I.C. 7402	M10,N10
75	37-7404	6	" 7404	C7,D7,F9,J9,L9,J/K1
76	37-7406	1	" 7406	J10
77	37-7408	10	" 7408	A2,B2,C2,B4,R5,E7, H7,H9,A10,L10
78	37-7410	1	" 7410	кз .
79	37-7413	1	" 7413	F10
80	37-7420	1	" 7420	₽5
81	37-7427	1	" 7427	В6
82	37-7430	1	" 7430	C5 .
83	37-7442	1	" 7442	J2
84	37-7474	6	" 7474	A6,F7,R7,F8,R8,K9
85	37-74LS83	2	" 74LS83	M5,N5
86	37-74LS85	2	" 74LS85	M6,N6
87	37-74LS86	8	" 74LS86	N1,D4,L6,P6,D9,R11
88	37-74107	1	" 74107	B7,K7 R6
89	37-74LS153	5	" 74LS153	R2,E6,F6,H6,J6
90	37-74LS157	4	" 74LS157	H4,K8,M8,N8
91	37-74LS161	7	" 74LS161	P4,R4,F5,H8,J8,L8, P8
92	37-74LS164	4	" 74LS164	D5,E5,B9,C9
93	37-74LS174	6	" 74LS174	K/L1,K2,L2,P2,J7,E8
94	37-74LS175	2	* 74LS175	J3,M9
95	37-74LS193	3	" 74LS193	M1,N2,H10
96	37-74LS195	2	" 74LS195	H5,P7
97	37-74298	2	" 74298	K5,L5

Figure 8 Starship 1 Game PCB Assembly A006694 - 02 Only Parts List

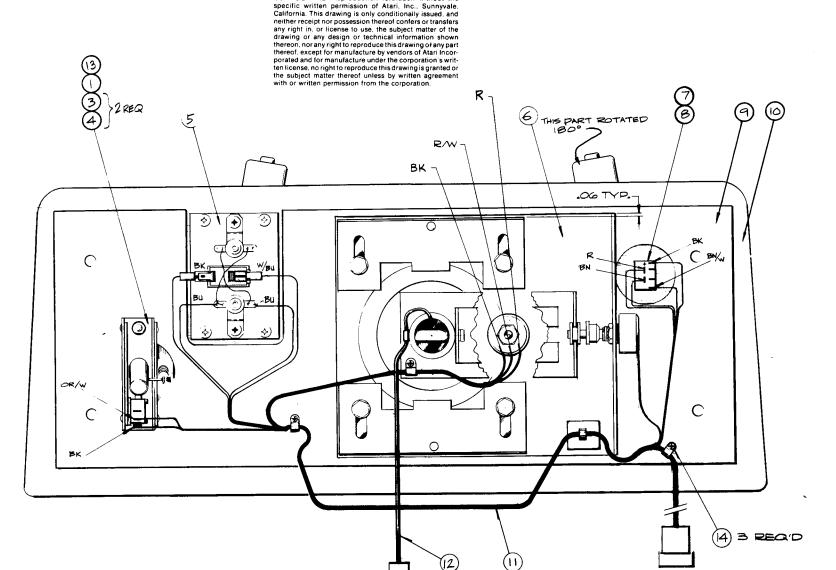


<u>AI</u>		LIST	SPECIFICATION	Page 5 of 6
Item	Part Number	Qty.	Descripti	ion
98	37-555	1	I.C. 555	B10
99	37-556	1	" 556	C10
100	37-566	1	" 566	A9
101	37-1408	1	" 1408	M2
102	37-1495	2	" 1495	F11,J11
103	37-75107	1	" 75107	Ell
104	37-9314	2	" 9314	L1,D6
105	37-9321	2	" 9321	J1,C4
106	37-9334	2	" 9334	C8,P9
107	37-9602	1	" 9602	A 5
108	37-4001	1	" 4001	Al
109	37-8T28	2	" 8T28	E4,F4
110	37-LM319	1	" LM319	Lll
111	37-TDA1004	1	OP. AMP TDA1004	Bll
112	37-14051	2	I.C. 14051	A8,N11
113	37-4136	2	" 4136	E10,H12
114	37- MC3340P	1	" MC3340P	Dll
115	37-LM323	1	Regulator LM323	
116	37-7812	1	Regulator +12V 7812	Q6
117	37-7912	1	Regulator -12V 7912	Q5
118	37-7475	1	I.C. 7475	D8
119				
120	90-6010	ı	I.C.	С3
121	90-7005	5	RAM, 82S25	J4,K4,L4,M4,N4
122	90- 7022	5	RAM, 82S17	L3,M3,N3,P3,R3
123	90-7018	2	RAM, 2101A-2	M7,L7
124	90-7019	2	RAM, 2111A-4	Bl,Cl
125	78-0600 N	,	HEATSINK, LM 323	

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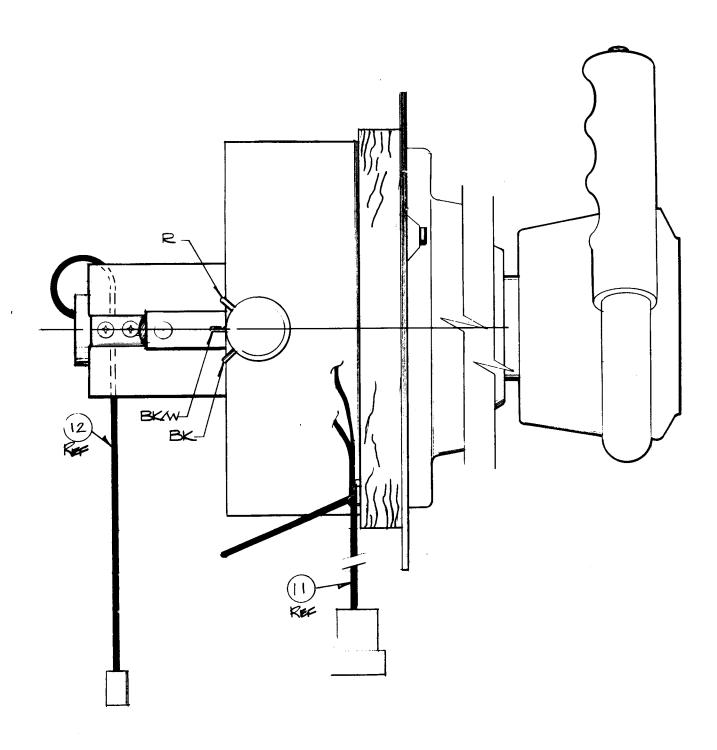
	PART	PARTS LIST SPECIFICATION Page 6 of 6					
Item	Part Number	Qty.	Description				
126	66-114P1T	2	Dipswitch, 4PST (SW1) (SW 2)	K€, B8			
127	90-102	1	Crystal, 12.096 MHZ	Yl			
128	79-42040	1	Socket, 40 Pin	C3			
129	78-06022	1	Heatsink, TDA1004				
130	78-16005	1	Silpad				
131	72-1608C	2	Screw, Mach., Pan Hd. Phil #6-	32 x ½ Cres			
132	75-016S	2	Washer, Flat #6				
133	75-056	2	Washer, Lock, Int Star #6				
134	75-916C	2	Nut, Hex, #6-32 Cres				
135	78-13016	A/R	Cement, TDA1004 Heatsink				
136	007513-01	1	PROM, Alpha-Numerics	N 7			
137	007514-01	1	" Sync	N 9			
138	007515-01	1	" Object	J5			
139	007516-01	1	" Spaceship Z2	Pl			
140	007517-01	1	" Spaceship Zl	Rl			
141	007518-01	1	" Video Output	R10			
142	007519-01	ı	" Address	в5			
143							
144	007530-02	1	Program ROM 3000	н3			
145	007531-02	1	Program ROM 3800	E3			
146	007528-02	1	PROM, Program 2000-0	C/D1			
147	007529-02	1	PROM, Program 2000-1	C/D2			
148	10-5272	1	Res, Carbon, W, 5%, 2.7k Ohm	R165			
149							
	14-1102	1	Res, Film, W, 1%, 1.00K Ohm	R162			
150							

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Figure 9 Control Panel Assembly A006673-01 C



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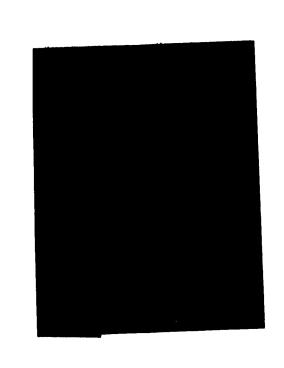
Figure 9 Control Panel Assembly A006673-01C

Figure 9 Control Panel Assembly Parts List



	MIANI						
Item	Part Number	Qty.	Description				
1	A007378-01	1	Thrust Control Assembly - See Figure 10				
2			1 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -				
3	75-941S	2	#10-24 Nut, Hex, Self-Locking, Polymer				
4	75-5116N	2	Bolt, Carriage, #10-24 x 1.00 Lg.				
5	A007357-01	1	Start Button Assembly				
6	A005347-01	1	Flight Control Assy - See Figure 11				
7	001856-01	1	Bushing, Alum.				
8	62-002	1	LED Switch				
9	006655-01	1	Board, Control Panel Back-Up				
10	006668-01	1	Control Panel W/Graphics				
11	A006913-01	1	Control Panel Harness				
12	A007257-01	Ref	Harness, Firing Switch				
13	006678-01	1	Slider				
14	72-6810	3	#8 x 5/8 S.M. Screw				
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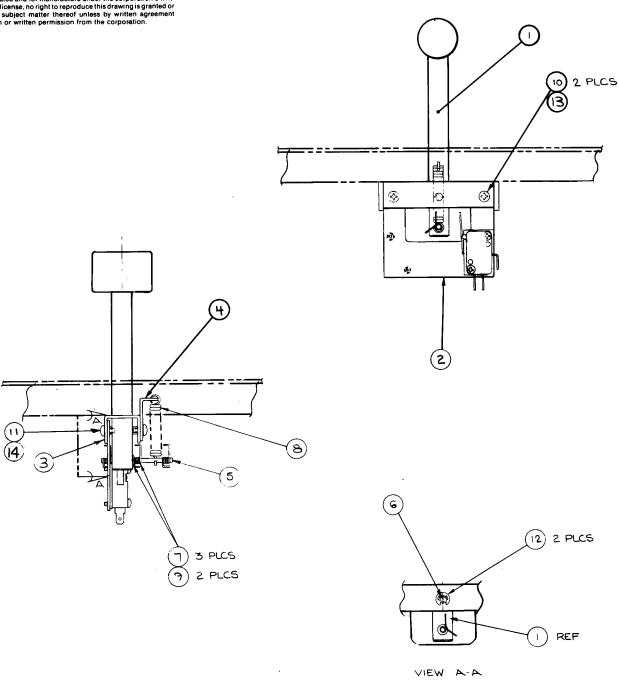


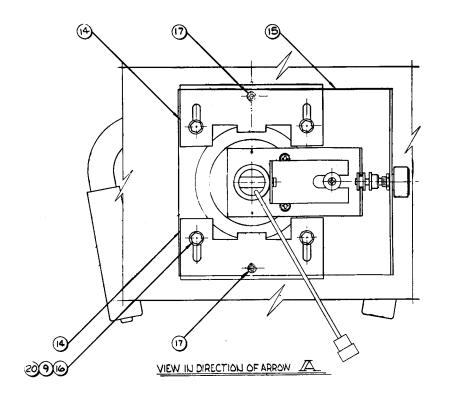
Figure 10 Thrust Control Assembly A007378-01D

Figure 10 Thrust Control Assembly Parts List

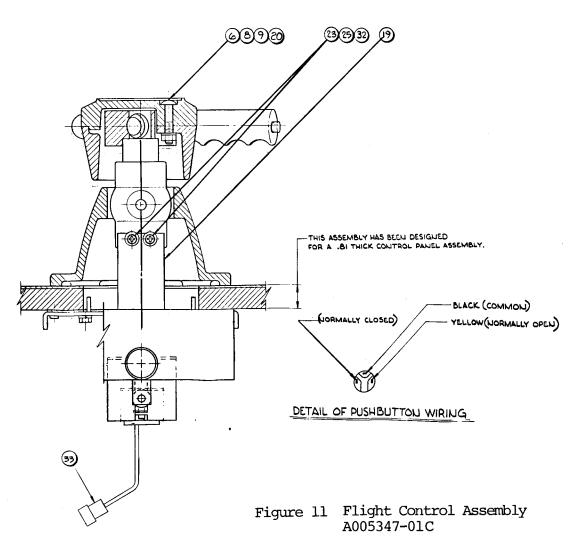


Item	Part Number	Qty.	Description
1	A007367-01	1	Shaft Assembly
2	A007534-01	1	Switch/Bracket Assembly
3	A009272-01	1	Bearing and Brkt. Assy
4	007370-01	1	Spring Bracket
5	007372-01	1	Spring Pin
6	007373-01	1	Shaft
7	007535-01	3	Retainer, Compression
8	78-300102 9	1	Spring (LE-045D-2)
9	75-014S	2	Washer, Flat, Plain, #4
10	75-2604S	2	Mach Scr, 6-32 x 1/2 Lg. Rd Hd Phil.
11	75-2804S	2	Mach Scr, 8-32 x 1 Lg. Rd Hd Phil.
12	73-3002	2	Retaining Ring, Plain Pic #Z3-2
13	75-046	2	Washer, Split-Lock #6
14	75-048	2	Washer, Split-Lock #8

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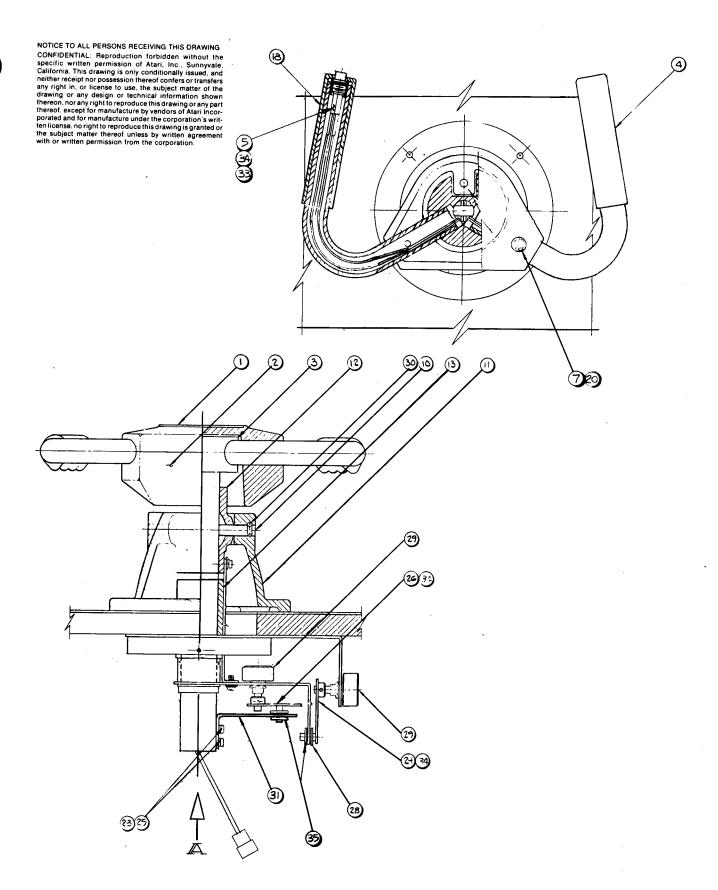


Figure 11 Flight Control Assembly A005347-01C

Figure 11 Flight Control Assembly Parts List



Item	Part Number	Qty.	Description
1	004189	1	Cap-Flight Control
2	004190	1	Base-Flight Control
3	004194	1	Weldment-Flight Control
4	78-40201	1	Handle Grip
5	62-003	ì	Switch, Pushbutton
6	75-552 3 B	ì	Bolt Carriage 4-20 x 1 3/4"lg
7	75 - 55 32 B	2	Bolt Carriage 4-20 x 2" lg
8	75 - 915S	3	Nut, Hex (1/4-20)
9	75-045	7	Washer, Lock (1/4)
10	005310	1	Retaining Pin
11	005308	1	Pot Mount Machined
12	A008997-01	1	Spherical Ball and Bushing Assembly
13	005312	1	Rubber Stop
14	005313	2	Bracket, Bumper
15	005334	1	Plate, Backing
16	72-5524N	4	Bolt, Hex Hd. (1-20 x 11 Lg.)
17	72-6812	2	Screw, Sm., Pan Hd. (#8 x 3/4" Lg.)
18	004202-02	1	Handle Grip
19	005315	1	Bracket, Center Post
20	75-014s	7	Washer, Flat #4
21	7,5 01.13	′	,
22			
23	72-1806S	4	Screw Pan Hd. (8-32 x 3/8 Lg)
24	A009525-01	lı	Linkage Asm
25	75-048	5	Washer, Lock (#8)
26	A009526-01	l 1	Hub Mount Asm
27	H005520 01	-	Hab Hoarie Ham
28	005333	2	Hub
29	19-026	2	Special Potentiometer
30	73-20812	1	Pin, Roll (1/8 Dia x 3/4 Lg.)
31	005314	l ī	Bracket, Pot Linkage
32	75-028S	2	Washer, Flat (#8)
33	A007257-01	lī	Firing Switch Harness
34	75-4603	3	Screw, Set (#6 x 3/16 Lg)
35	73-3001	2	Retaining "E" Ring (%" Shaft)
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