Technical Manual for

Space Fortress

INTRODUCTION TO SPACE FORTRESS

INTRO DUCTION

Space Fortress is a one or two player outer space action game designed with features geared for maximum player appeal: a progressively difficult competitive level and a clearly defined "enemy" which must be both attacked and avoided at various points in the course of play.

GAME PLAY

The center of the playfield is occupied by the "Space Fortress" which is programmed to constantly home in on the players' ships. Surrounding the "Space Fortress" are three concentric "energy rings" of twelve segments each which serve as both a protective perimeter for the "Space Fortress" and a source of points for the player. Contained within the "energy rings" are three protective "mines" which seek out the players' ships and destroy them upon collision. The movements of the "mines" are programmed to simulat the actions of heat-seeking missles.

The object of the games of "Space Fortress" is to score the maximum numbe of points possible. This is accomplished by the comination of three element a) exploding the ring segments; b) exploding the "Space Fortress"; c) avoiding the Space Fortress mines. A player's turn is over when his ship has been destroyed. The number of ships per game is set by the operator. Points are awarded as follows:

- A. Hitting ring segments
 - 1. outer ring-10 points per segment
 - 2. center ring-20 points per segment
 - 3. inner ring- 30 points per segment
 - (note: it takes two "hits" to destroy a segment)
- B. Hitting " Space Fortress"
 - 1. 1,440 points plus extra ship for each hit.
- C. Avoiding "mines"
 - No points are awarded for shooting the "mines", but they must be avoided or shot to keep the game going.

For maximum scoring, a player will want to shoot out sections of the energy rings in order to give him a shot at the Space Fortress in the center of the screen. As play progresses, there are two facts a player must keep in mind: 1) sxploding all segments in a given ring will cause the entire ring to reappear - thereby eliminating a potential shot at the Space Fortress in the center; and 2) exploding the rings in a manner that gives you a shot at the Space Fortress will also give the Space Fortress a shot at you. The Space Fortress is programmed so that its nose always seeks out the player's ship. If there is a shot at the player, he will take it.

When the Space Fortress is hit by a player's missile, it will first implode and then explode with all remaining ring segments.

After a one-second delay, the Space Fortress will reappear with all three ring segments. If the Space Fortress shoots the player, his turn is over.

MODES OF PLAY

There are two modes of play in Space Fortress: a) The one player mode; and b) the two player mode.

The one player mode is activated when a coin is accepted and the player pushes the one player button. As play begins, the Space Fortress will appear in the center of the screen surrounded by its three "energy rings". The player's ship appears about halfway up on the right hand edge.

By using the control buttons to move forwrad, right or left, the player maneuvers about the screen using the firing button to launch missiles. Ponts are scored by destroying the energy ring segments or the Space Fortress itself. Exploding the Space Fortress gives an extra ship as well as points. No points are given for the "mines" that attack the player.

The player's ship can be destroyed in two ways: by collision with the mines or by a hit from the Space Fortress's torpedo. The mines are launched from the rings and attack the player for approximately ten seconds or until shot. The Space Fortress's torpedos are launched only when there is a clear shot at the player through all three rings. At this time the player also has his shot at the Space Fortress. Both the Space Fortress and the mines get smarter and faster as the game progresses.

The two player mode is activated when the coins are accepted and the two player button is pushed. Each player plays his turn until his ship is exploded. If a player scores more extra ships than his opponent, he will be allowed to play the extra ships even though his opponent's game is over.

The game of SPACE FORTRESS is not based on time units. The battle rages on until all the player's ships are destroyed. The length of the game depends solely on the skill of the player. It's the age-old chellenge of man versus machine.

RECEIVING AND INSTALLATING SPACE FORTRESS

RECEIVING INSPECTION

Your game was shipped in ready-to-play condition. However, after removal of the shipping carton, a brief visual examination is suggested.

Naturally, you'll want to make note of any physical damage to the game cabinet and its external components for greight claim purposes. Considering the quality of the shipping carton, any damage to the exterior would indicate possible interior damage as well.

The interior of the game should also undergo a brief examination for: loose mounting hardware (check to be sure that the major components are still securely mounted); disconnected or loose wires, cables or harnesses; electronic devices loose in their sockets; ect.

At this time the game serial number should be logged. Please remember that the game serial number will be required if you need service from your distributor.

ELECTRICAL REQUIREMENTS

Unless specified otherwise, your game was shipped to operate at 220 VAC. Four other voltage settings are possible. The power supply chassis has a table which shows the voltage opions and fusing requirements.

A good earth ground is essential for the proper operation of this game or for that matter any electronic device. Problems with instability and erratic operation of computertype devices can usually be traced to an ineffective ground system. Therefore, plug the game into a properly wired 3 prong outlet. If a 3 prong to 2 prong AC adaptor must be used, an alternate method of grounding the third prong must be used.

INITIAL ADJUSTMENTS

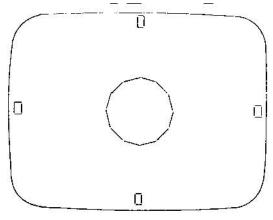
NOTE

When the game is connected to AC power, one of the game sounds may be heard. This is normal.

The audio level (volume) can be easily adjusted and THIS IS ACHIEVED BY ROTATION OF THE VOLUME POT. The audio level should compete with other machines "on the floor" to maximize play time.

Display brightness is another easy adjustment. The monitor assembly has several adjustments, but the brightness control is the only one which does not require a "screwdriver" for rotation. Keep the brightness at the correct level for appeal.

TEST PATTERN



SPACE FORTRESS OPTION SWITCHES (Located on logic board)

OFF	ON	
	<u> </u>	1 SHIPS PER GAME
	2	2 SEE TABLE 2-1
<u> </u>	_ w	3 CREDITS PER COIN
<u> </u>	_ 1	4 SEE TABLE 2-2
<u> </u>		5 NOT USED
	o	6 NOT USED
	7	7 ON=NORMAL OPERATION OFF= TEST PATTERN

SWITCH 2	SWITCH 1	SHIPS GAME
ON	ON	6
OFF	ON	5
ON	OPF	4
OFF	OFF	3

To adjust coin receptor, operate on the board (coin switches adjustment), moving switches no 3 and no 4 of game board, in "ON" position.

Adjust, as wished, switches on table 2-2

TABLE 2-1

TABLE 2-2
COIN SWITCH ADJUSTMENT

COIN MECHANISM 1

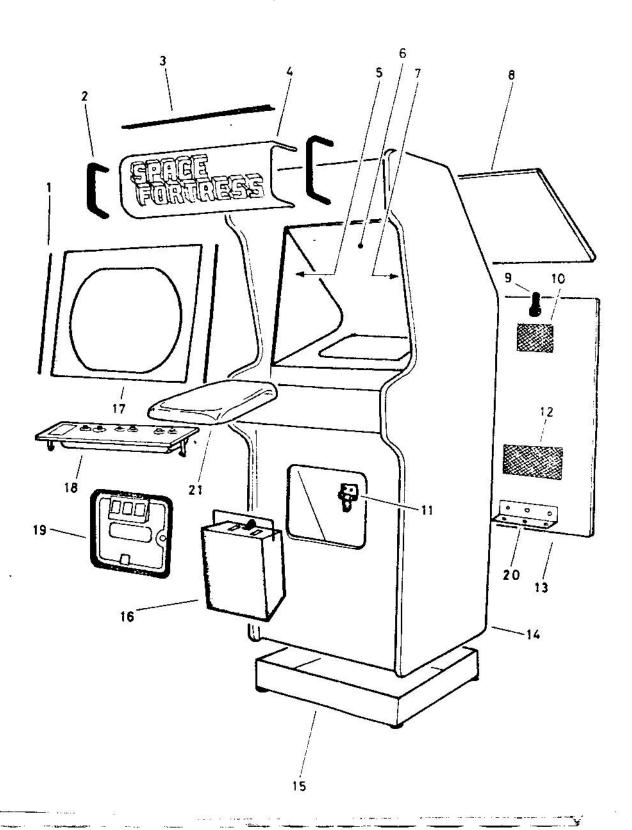
1_	1 5	1 3	3 1	ľ				
OFF	ON	OFF	OFF	2	COINS	_	1	PLAY
OFF	ON	OFF	ON	1	COIN	-	1	PLAY
OFF	OFF	ON	ON	1	COIN	_	2	PLAYS
OFF	ON	ON	ON	1	COIN	_	3	PLAYS
ON	OFF	OFF	ON	1	COIN	_	4	PLAYS
ON	ON	OFF	ON	1	COIN	_	5	PLAYS
ON	OFF	ON	ON	1	COIN	_	6	PLAYS
ON	ON	ON	ON	1	COIN	_	7	PLAYS

COIN MECHANISM 2

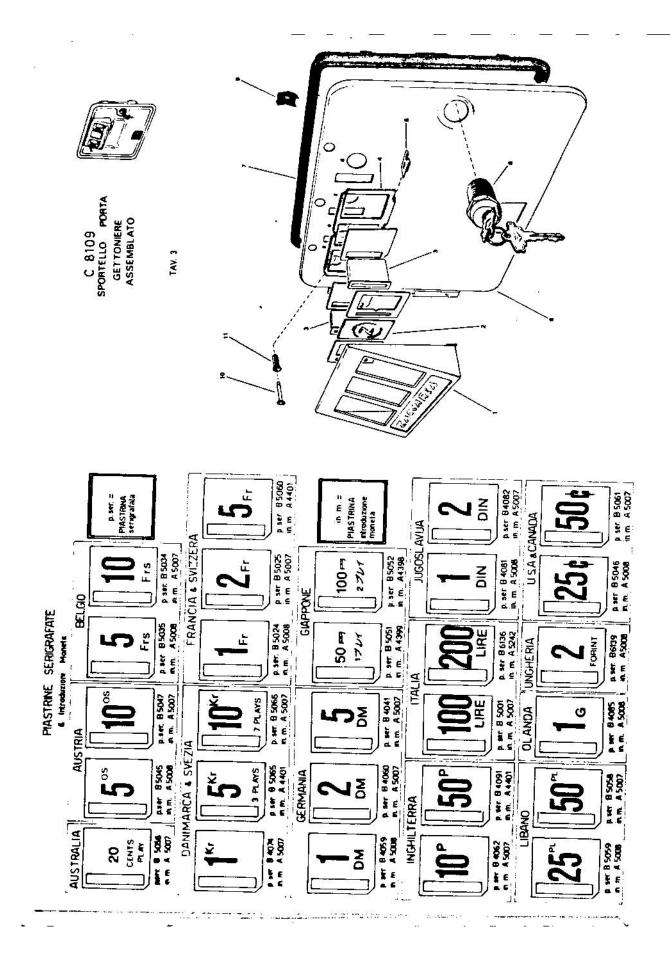
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OFF	ON	OFF	OFF	2 COINS - 1 1	PLAY
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OFF	OFF	ON	ON		LAYS
OFF	ON	ON	ON		LAYS
ON	OFF	OFF	ON		LAYS
ON	ON	OFF	ON		LAYS
ON	OFF	ON	ON		LAYS
ON	ON	ON	ON		LAYS

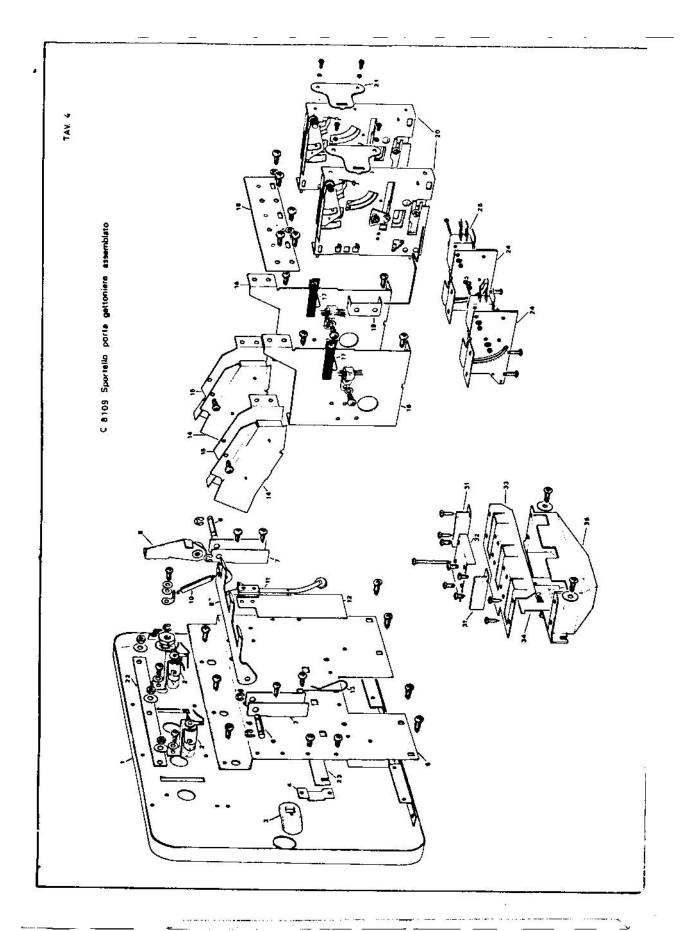
ATTENTION :

Do not use other possible combinations.



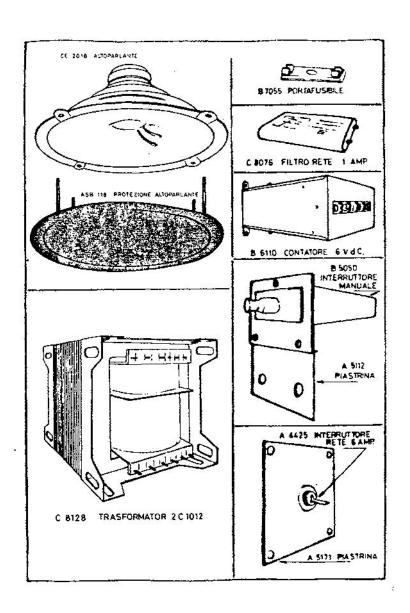
1	MA 003	Profilato Cornice
2	MV 034	Guarnizione Nera
3	A 7286	Guarnizione in Alluminio Anodizzato
4	MRB 388	Pannello ad "U" Serigrafato " Space Fortress"
5	MRB 402	Scenario Verticale Sinistro
6	MRB 404	Scenario
7	MRB 403	Scenario Verticale Destro
8	FB 075	Sportello Superiore
9	B 7091	Serratura
10	A 7295	Rettangolo Rete Stirata (130 x 250)
11	B 6616	Squadretta Fissaggio Cassetta Monete
12	A 7294	Rete Stirata (180 x 180)
13	PB 074	Sportello Posteriore
14	MRB 378	Mobile Serigrafato
15	FB 071	Zoccolo
16	B 7154	Cassatta Monete
17	MRB 359	Vetro serig. " Space Fortress"
18	C 8146	Pannello Comandi assemblato a pulsanti
19	C 8109	Sportello per Gettoniere
20	A 7260	Angolare Rinforzo Mobile
21	MRB 399	Schermatura in Plexiglass per Cinescopio

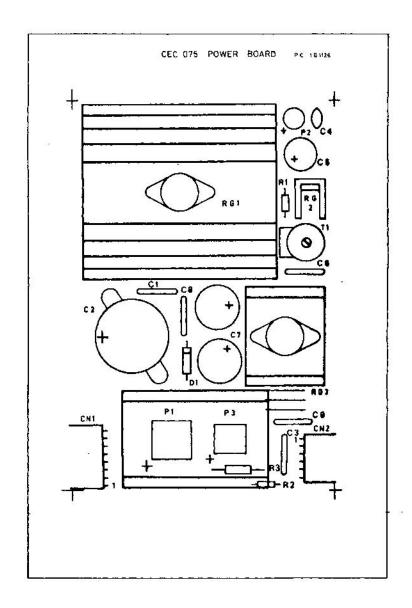




	Tay.	3	C 8109 SPORTELLO PER GETTONIERE ASSERBLATO
	1	ASB 116	Frontalino Sportello con Gerniera
	2	A 5009	Piastrina con Marchio
	3	A 6008	Guide Loneta in Plastica
	4	A 7005	Componente Fissaggio Accessori
	5	A 4383	Piastrina Semidoppia
	6	B 7194	Sportello con Cerniera
	7	A 7236	Cornice in Alluminio Pressofuso
	8	B 7153	Serratura
	9	A 4460	Staffa Fissaggio Cornice
	10	A 4031	Pulsante Scarto Moneta
	11	A 4032	Components per Pulsante
	TAV.	4	
	1	B 7194	Sportello con Cerniera compl. di Accessori
	2	B 5029	Porta Lampada Alto Sportello
	3	A 4328	Leva per Serratura Sportello Anteriore
	4	A 5002	Fermo Barra Arresto Moneta
	5	A 7002	Piastra Supporto Gettoniera
20	6	A 4005	Permo per Cavallotto Sportello
	7	A 6001	Cavallotto Sportello
	8	B 6001	Leva con Boccola
93	9	A 6002	Leva di Scarto Gettoniera
	10	A 5201	Molla richiamo Leva di Scarto
	11	E 9015	Pacco Lamellare Tilt
	12	A 5205	Cartoncino Isolatore Sportello
	13	A 5021	Ferretto Porta Chiave Sportello
	14	A 7009	Scorrimoneta Maschio
	15	A 7008	Scorrimoneta Pemmina
	14+15	B 6076	Scorrimoneta Assemblato
	16	B 7006	Supporto Gettoniera
	17	A 5252	Forcellina Fiseaggio Gettoniera
	1B	A 5014	Piastrina Accopiamento Supp. Gettoniera
	19	A 5015	Componente per Asta Arresto Moneta
39	20	B 7683	Settomiera 1. 50

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     B 7114
                                 1 PS
     B 7128
     3 7129
                                 2 PS
     B 7148
                                10 Fr Belgi
     B 7233
                                 5 Dinari
     B 7234
                                 10 Dinari
21
     A 5114
                    Piastrina Fissaggio Gettoniera
22
    A 5006
                    Asta per Prontalino
23
    A 5001
                    Barra Arresto Moneta
     B 6109
24
                    Piastra Porta Micro
25
     B 5053
                    Micro Nero
     B 5054
                    Micro Rosso
     B 5055
                    Micro Bianco
31
     A 5012
                    Squad. a 2 fori
32
    A 5010
                    Sugad. a 4 fori
33
   A 6009
                    Copertura per Raccoglitore Nonete
34
     A 5011
                    Cancelletto
35 AS1028
                    Raccoglitore in Plastica
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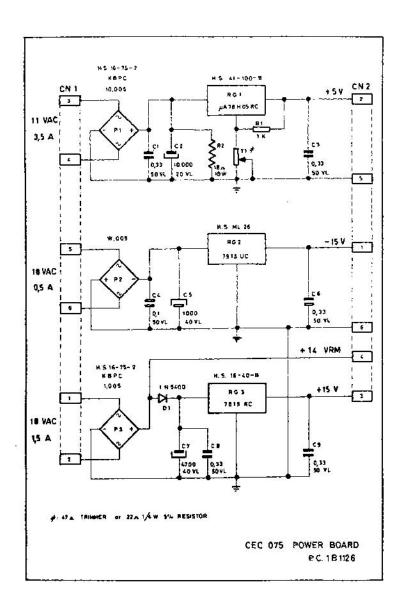




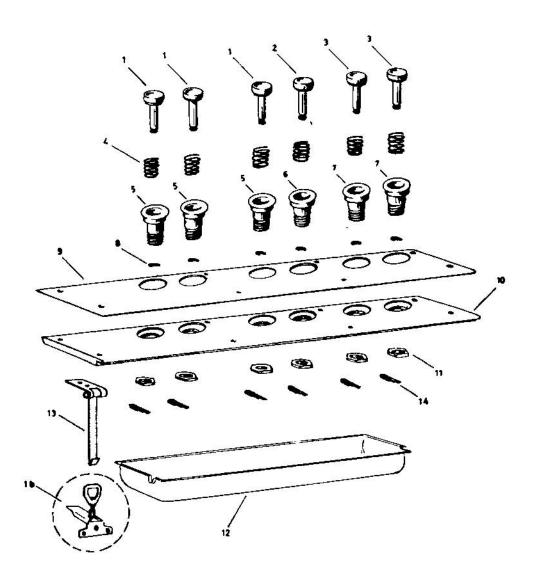
2 P 1 CE 1405 50V. 3 P 2 CE 1213 50V. 4 P 3 CE 1276 50V. 5 R0 1 CE 1276 50V. 6 R6 2 CE 1750 -15V. (MA. 7 R6 3 CE 1749 +15V. (MA. 8 D 1 CE 1238 6 P1 10 CM 2 CE 1361 6 P1 11 HS 1 CE 1362 6 P1 11 HS 2 CE 1760 Heat 12 HS 2 CE 1770 Heat 14 HS 4 CE 1566 Heat 15 C 1-3-6-8-9 CE 1261 0, 33 16 C 2 CE 1364 10.00 17 C 4 CE 1005 0, 1M 18 C 5 CE 1579 2.20 18 C 7 CE 1579 2.20 20 E 1 CE 170 1 KO 21 H 2 CE 170 1 KO 22 CE 1770 1 KO 23 CE 1770 1 KO 24 CE 1770 1 KO 25 CE 26 T 170 1 KO 26 CO	
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22 T 1 47 C	1/4W 5% Carbon Resist
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	1 Turn Vertical Trime
	nly mounted 22 OHK 1/4 Resistor)
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CEC 069 COIN SWITCHES ADJUSTMENT BOARD P.C. 181145

ITEM	COIN SWITCHES AB	ousdient	S BOARD CEC 069	RE del
Nº j	PART DESIGNATION	PART NO	DESCRIPTION	ND.
1	F.C. 191145	SE,2100	Printes Circuit Foord 151145	7
2	CN1-CN2	CE. 1590	15 Pin Kodu 2 Male Connectors	2
3	Ic 7		4001P_C-Mos-Ic	[;]
-4	Ic6-Ic10-Ic12		4011B C-Mor-Ic	13
5	Ic13		4013B C-Mos-Ic	11
€	1e9		4029F C-Ros-Ic	1
7 8	Ie1+Ic2-Ic3 . Ic5-Ic6		4089B C-Mos-Ic	3
- 61	Ic4	CE 1736	40161B C-Mos-Ic 74C14 C-Nos-Ic	1
10	Dip. Se t	CT. 1480	Dir Switch & Vie	1+
11	Q6 - Q2		50 337 NPN Transistor	2
12	Q5-Q4-Q3-Q1		BC 171 NFK Transistor	4
13	DIC		100 LF 16VL Flettr. cap. Assizle	1
14	07	CE. 1206	1 MF 16VL Tantalium Cap.	1
15	Ic 11		NE 555 Nos Ic	1
16	09-012-013-014-015-			
	016-017	CE. 1005	0.1 MF Ceramic Capacitor	7
17	<u> </u>	CE. 1100	10 MF 15VL Elettr. cap. Assiale	1
18	01-02-04-05-08	CE. 1029	10 MpF 50VL Ceramic Cap.	5
19	03-06		1 Epf 50VL " "	2
20	D1-D2-D3	CE 1539	1N4003 Diodes	3
21	R24-R25-R27-R28		22K OHK 1/4%, 5% Carbon Res.	1
21	R2+R4+R9-R6-R10-R11-	25. (18)	15K OHL: " " "	+ + +
-23	R16-B17-R16-R19-R20-			H
	R21-R22-R23	CE. 1171	TOK OHL: " " "	14
24	R13-R6-R12		4,7K OHA * " * "	3
25	R1-R3-E7-R9-E26-R29-			1
	R15	CE. 1164	2.2K CHI; " " " "	7
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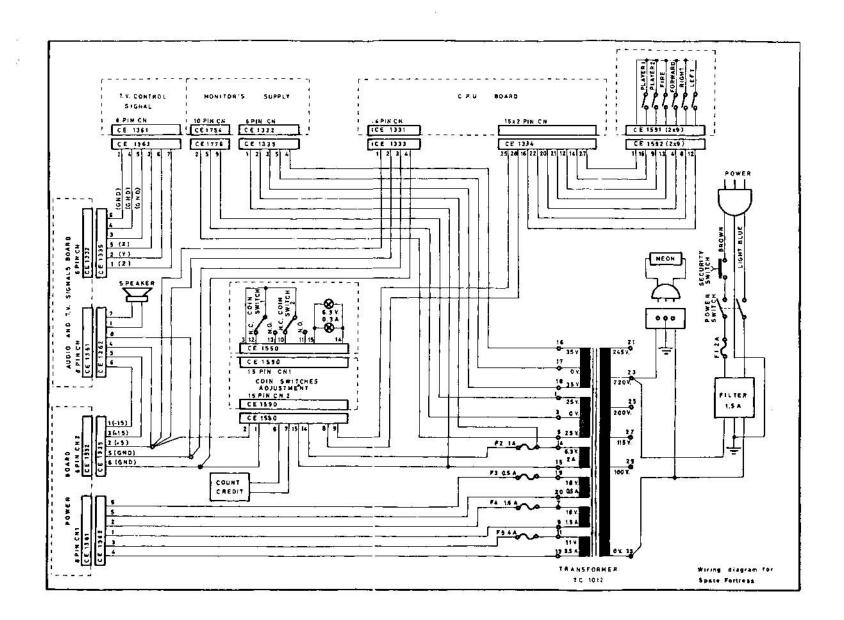
C 8146 Pannello comandi a 6 pulsanti

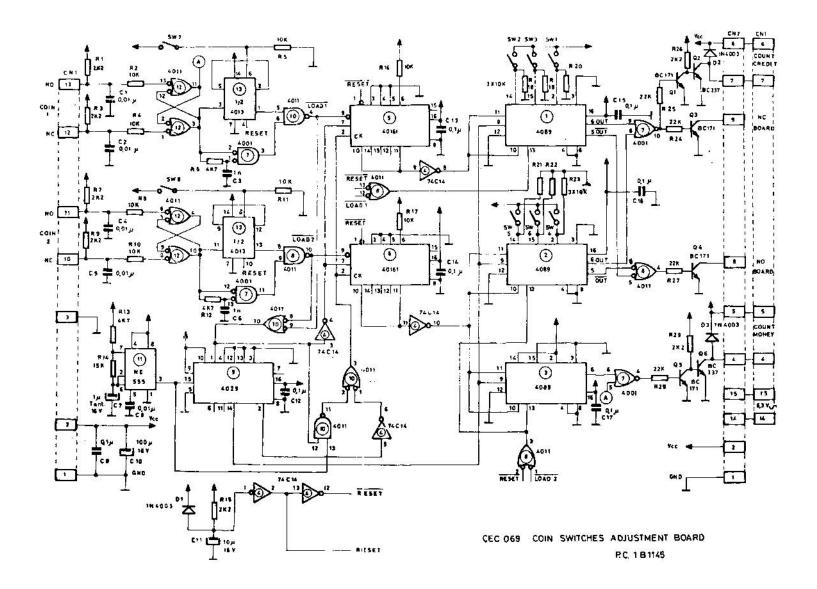


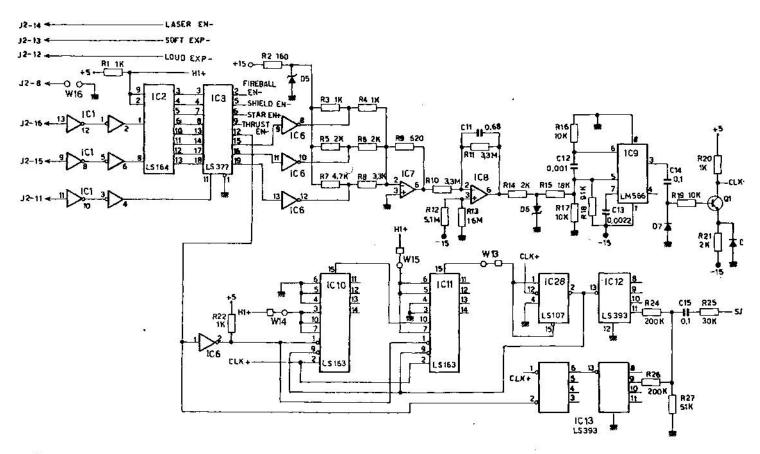
TAV. 2 C 8146 PANNELLO COMANDI A 6 PULSANTI

1	B 6113	Pulsante Verda
2	B 6130	Pulsante Rosso
3	B 6114	Pulsante Bianco
4	A 4272	Molla Richiamo Pulsants
5	A 5213	Corpo Pulsante Verde
б	A 5225	Corpo Pulsante Rosso
7	A 5211	Corpo Pulsante Bianco
8	A 4202	Anello Din mm. 6
9	MRB 384	Mascherina Comando serigrafeta
10	PB 085	Tavoletta in Legno
11	A 5214	Dado Perro Zinc. 16 MA Fiss. Corpo Pulsante
12	A 7194	Scatola Protezione Pacchi Lamellari
13	B 6118	Cerniera con Tirante
14	B 9021	Pacco Lamellare
14	A 9021	racco pawellare

1b B 6115 Bloccaggio a Leva Regolabile







IC1 = 7414

106 - 740 s

107-8 -TL061

