

CONTENTS

1.	SPECIFICATIONS	1
2.	INSTALLATION	1
3.	PLAY INSTRUCTIONS	2
4.	OPERATIONAL INSTRUCTIONS	3
	OPERATER'S OPTION	4
5.	TROUBLE SHOOTING	5
6.	PARTS DIAGRAM	
	OUTSIDE VIEW	6
	INSIDE VIEW	7
	CONTROL LEVER ASSEMBLY	8
	WIRING DIAGRAM	9
7.	PARTS LIST	10 ~ 11
•	C.P.U BOARD SCHEMATICS-1	12
•	C.P.U BOARD SCHEMATICS-2	13

1. SPECIFICATIONS

(all within ±10%)

Wattage 120W (at 100V)

Coin Capacitance 3,000 coins (¥100 coin)

Dimensions;

 Width
 620 mm

 Depth
 800 mm

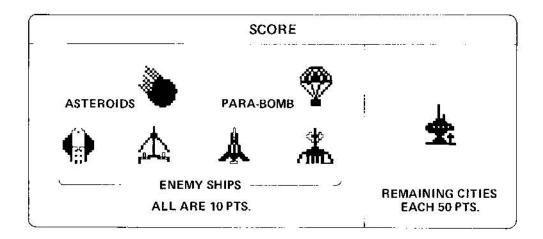
 Height
 1,700 mm

2. INSTALLATION

- (1) Install the machine on a flat floor.
- (2) Avoid locations subjected to direct sunlight, high temperature, high humidity, vigorous vibrations, dust, etc. Also avoid locations where dangerous objects or fire-fighting apparatuses are stored or which block the emergency exit.
- (3) Don't give any shock or vibrations to the machine.
- (4) Don't allow any metal objects to fall into or water to get into the cabinet.
- (5) When applying voltage on the machine, do not use the same wall outlet as the one for motors, air conditioners, etc. which tend to fluctuate the voltage of the machine or to produse noise.
- (6) The line voltage that may be selected is as follows: single-phase 50/60 Hz A.C. 240, 220, 117, 110 or 100V. Connect the plug to the socket which is fitted your local voltage. This Voltage Selection Connectors are located on Power-Transformer.

3. PLAY INSTRUCTIONS

- * After coin inserted, press either 1 or 2 PLAYERS BUTTON.
- * Operate your BATTLE STATION right or left by CONTROL LEVER. And shoot assulting enemies.
- * Your BATTLE STATION gradually sails up in the sky.
- * 7 enemy ships are all destroyed, the 1st round is over. When the 8th round is over, return to the 1st round.
- * When each round is over, if the cities on the ground remains, add the number of cities for your score as BONUS points.
- * All your reserved BATTLE STATIONs are destroyed, the GAME is over.

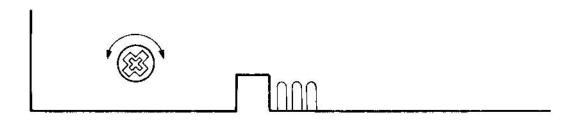


4. OPERATIONAL INSTRUCTIONS

- Be sure to turn off the power switch before working on the machine.
- Avoid momentarily pushing in or pulling out the power cord plug.
- Even when it is found that the solid-state module is apparently out of order, do not check for the circuit by means of a tester, etc. since the voltage developed within the tester, etc. may destroy the IC unit.
- When carrying the machine about, be careful not to drag or drop it so as to protect the CRT of its TV set.
- Be sure to use rated fuses.
- Since there are high-tension parts on the base board and in the interior of the TV set, never touch such parts (this rule, however, does not apply to the manufacturer's servicing engineers).

OPERATER'S OPTION

1. AUDIO VOLUME ADJUSTMENT



2. OPTION SWITCH SETTINGS

FUNCTION	5.* 12406 - 20000 - 100 820		FUTURE			
FUNCTION	#1	#2	#3	#4	#5	FUTURE
DIFFICULTY	OFF ON			8		DIFFICULT
COIN		OFF	OFF	<u>*</u>	,	1 GAME/1 COIN
OPERATE		ON	OFF		5	1 GAME/2 COINS
(CHUTE 1)	ê	OFF	ON	1	1	1 GAME/3 COINS
		ON	ON			1 GAME/4 COINS
COIN			5	OFF	OFF	1 GAME/1 COIN
OPERATE			į.	ON	OFF	2 GAMES/1 COIN
(CHUTE 2)			Š	OFF	ON	3 GAMES/1 COIN
	5			ON	ON	6 GAMES/1 COIN

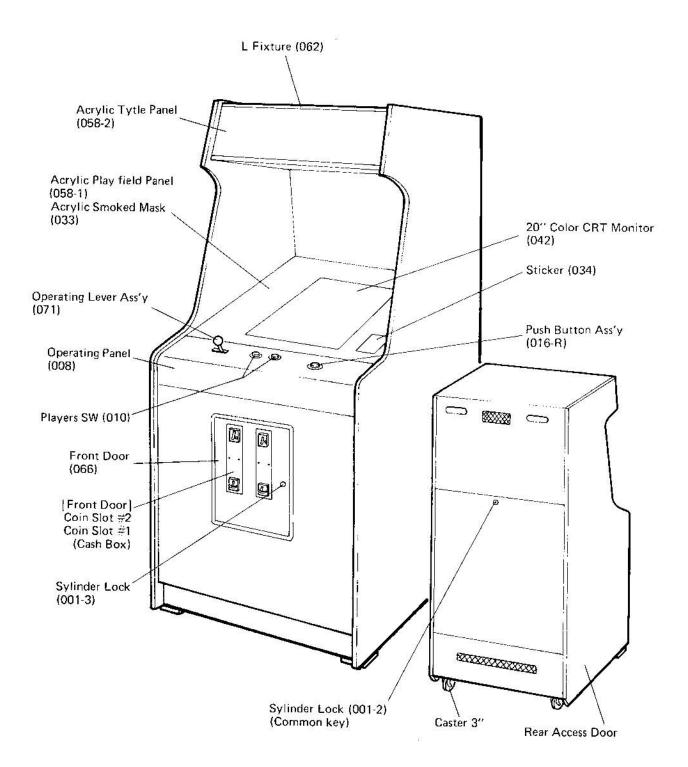
June 09/81 And wiking from # 1 to involvedon
2 = 32 both word on # 1 setting

5. TROUBLESHOOTING

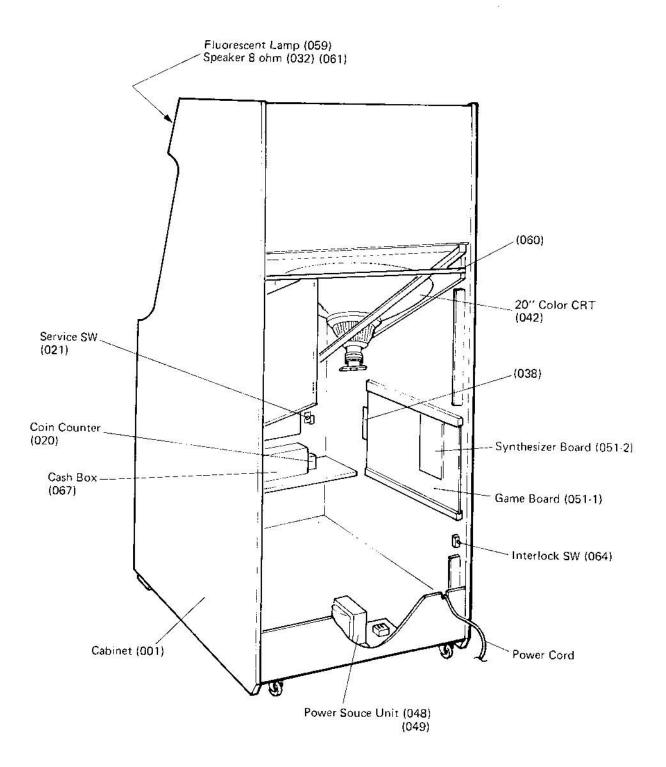
- Before considering some phenomenon as a trouble, confirm the matters listed below and then contact your dealer.
- The video game machine is broadly divided as to electrical component into four sections, namely, the minitor section, game PCB, operating section and power source section, which are connected with one another by wiring. If any one of them develops a trouble the game machine as a whole will not work normally. When you think that there is something wrong with the machine, check for the machine just for a little while before consulting your dealer since an apparent trouble may sometimes be caused by a trifling mistake or misunderstanding which can be remedied by a modicum of repairs.
- When the machine has developed any trouble, it must first be found out which part of the four sections and the wiring is malfunctioning. When you have guessed the malfunctioning part, check for each section. If the checked part shows no abnormal signs, check for other parts related to it, too.
- o Is the fuse not blown? (Be sure to use the indicated fuse. If a renewal fuse is also blown, then the other part is out of order.)
- Is the connector unfirmly contacted or disconnected? Since connector's poor contact is conceivable in all trouble cases thoroughly check the connector for contact condition (Be sure to turn the power off before mounting or demounting the connector.)
- Sometimes normal images cannot be produced despite turning ON the power cord plug. This can sometimes be corrected by setting the control circuit. So, repeat turning ON and OFF the power a few times.
- When checking for the meters, switches, etc. by means of a circuit tester, be sure to pull out the IC board connector.

6. PARTS DIAGRAM

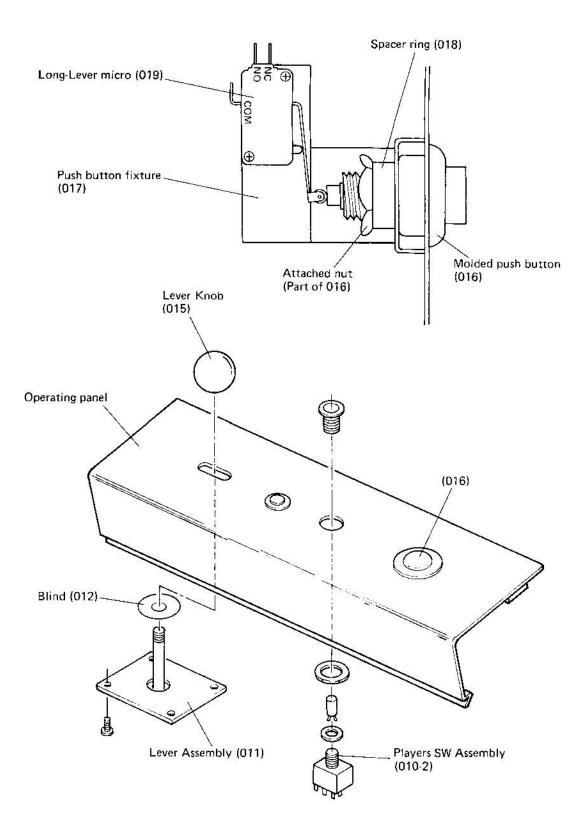
OUTSIDE VIEW



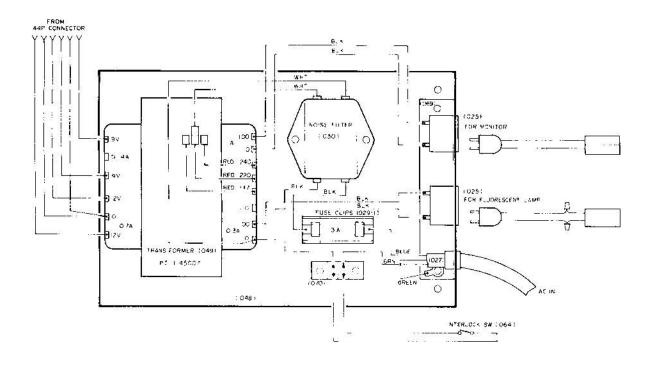
INSIDE VIEW

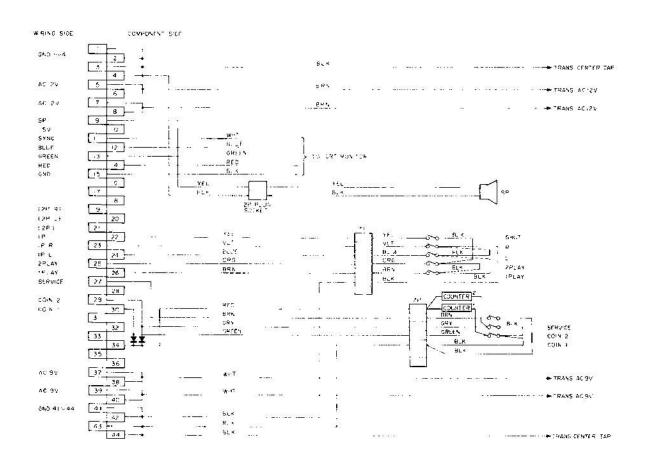


CONTROL LEVER ASSEMBLY



WIRING DIAGRAM





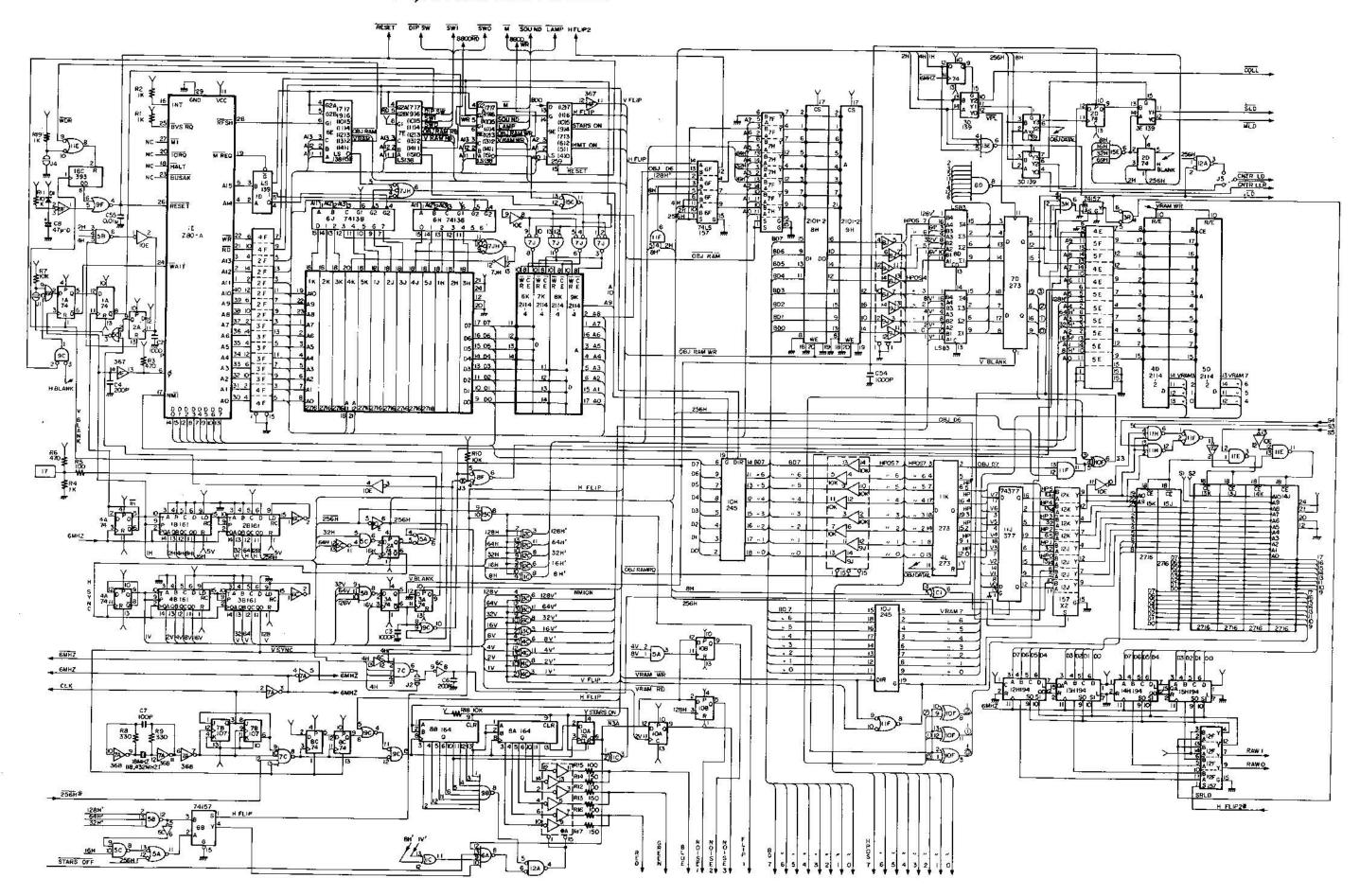
7. PARTS LIST

Item No.	Nomenclature		Description	l	Quantity	Remarks
001	Cabinet	1	Type 6500		1	N 100 000 100
001-2	Sylinder lock & key		(Common key)	į	1	
001-3	Sylinder lock & key	ì	(Safe key)	į.	1	(I (2:
006	Coin mechanism	- 2		ļ	2	Coinage specified
008	Operating panel				1	
010-2	Player's SW	3	Round type	:1£	2	1
012	Blind (black paper)	ř	$10.5\phi-40\phi$	Î	1	
015	Lever knob	4	35φ black	э	1	1
016-R	Molded push button ass'y			3.0	1	
016	Molded push button				1	
017	Push button fixture		(Upright)	1	1	54
018	Spacer ring				1	
019	Long-lever micro SW				1	
020	Coin counter	80	6VDC 6digit	3	2	
021	Service SW		Micro type		7	
022	Service SW fixture		5.2		1	
025	AC Outlet receptacle				2	
027	Cord bush				1	
029-1	Fuse clips			Ä	1	1
030	Noise filter				1	
031	3A Fuse		6φ glass cartridge		1	
032	Speaker		6-8" 8 ohm		1	
033	Acrylic smoke	*	(Blue)		1	
034	Play instruction sticker		W.		1	
038	44p Edge connector	35	4 mm pitch		1	
042	20" Color CRT monitor		Toei		1	Insulated; with signal
				~*		cable & power cord
042-1	Signal lead cable		For monitor		1	
042-2	Power cord		For monitor		1	
044	7p relay plug & socket				2	
045	Triangle ideal				4	St.
048	Power source board ass'y				1	1
049	Set down transformer				1	
051	Game PCB	12			1 set	
051-1	Main (MPU) PC board	17		1	1	
051-2	Voice synthsizer board			1	1	
058-1	Playfield panel	90	Silk printed		1	
058-2	Tytle panel		Silk printed		1	1
059	Fluorescent lamp ass'y		AC 100V 10W	î	1	
060	Monitor L fixture		entre de la constitución de la c	8	2	
061	Mesh plate	Ĩ	For speaker		1	
062	L fixture		For tytle panel		2	

Item No.	Nomenclature	Description	Į.	Quantity	Remarks
064	Interlock SW)	i	1	<u> </u>
065	Interlock SW fixture	į.	T.	1	
066	Front door	<u>t</u>)	E	1 1	
067	Cash box	I.	E	1 ,	
068	Cash box receptacle	2.5	I.S.	1	
069	Power source board fixture			1 .	
070	2p terminal board			1	
071	Operating lever chassis			1	
071-1	Spacer		T	2	
071-2	Plate spring			4	
071-3	Handling lever			1	
071-4	Shaft			1	
071-5	Lever pin			1	
071-6	U-ring			1	
071-7	R-ring			1	
072	Escutcheon (black paper)			1	
073	Patching lock			2	
083	Diode	Class 1A (10D-1)		2	
084	2p relay plug & socket		E.	1 ,	

BC 70 |FG B BC A PDB

• C.P.U BOARD SCHEMATICS-1 Space Barrie (MODEL SB-002U)



• C.P.U BOARD SCHEMATICS-2 Space Battle (MODEL SB-002U)

