# SEGA



**DELUXE** 

SERVICE MANUAL

MANUAL NO. 4201-6221-01

# SEGA\*

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# **Contents**

INTRODUCTION TO THE OWNER'S MANUAL	3
GAME REGISTRATION	4
GENERAL PRECAUTIONS	5
INSTALLATION LOCATION PRECAUTIONS	6
SAFETY AND REGULATORY INFORMATION	6
SPECIFICATIONS	7
INSTALLATION ITEMS	8
ASSEMBLING THE MACHINE	9
ASSEMBLING THE PTV	10
CONNECT THE CABINETS	12
LEG ADJUSTERS	14
ASSEMBLY CHECKS	15
EXPLANATION OF TEST AND DATA DISPLAYS	16
TEST MODE	18
MEMORY TEST	19
INPUT TEST	20
BOUNDARY SCAN	21 22
OUTPUT TEST SOUND TEST	22
CRT TEST	23
TIMER	24
BATTERY CHECK	. 25
RTC	25
GAME ASSIGNMENTS COIN ASSIGNMENT	26 28
COIN ASSIGNMENT COIN CREDITS	29
MANUAL SETTINGS	30
BOOKKEEPING	31
GLOBAL DATA	33
BACK UP DATA CLEAR	38
SERVICE INFORMATION	
COIN SELECTOR PTV CARE AND ADJUSTMENT	45
STATIC CONVERGENCE ADJUSTMENT	46 47
REMOTE CONTROL	48
FLUORESCENT LAMP	39
TROUBLESHOOTING	40
GAME BOARD	42
GAME BOARD SERVICE RECORD	44
DESIGN RELATED PARTS	49
PARTS IDENTIFICATION	50
MANUAL COMMENTS	53
WIRING DIAGRAM	54

#### INTRODUCTION OF THE OWNERS MANUAL

SEGA ENTERPRISES, LTD., has for more than 30 years been supplying various innovative and popular amusement products to the world market. This Owners Manual is intended to provide detailed descriptions together with all the necessary installation, game settings and parts ordering information related to Virtua 7196111 3 Deluxe, a new SEGA product.

This manual is intended for those who have knowledge of electricity and technical expertise, especially in ICs, CRTs, microprocessors, and circuit boards. Read this manual carefully to acquire sufficient knowledge before working on the machine. Should there be a malfunction, non-technical personnel should under no circumstances touch the interior system. Should the need arise, contact our main office, or the closest branch office listed below.

SEGA ENTERPRISES, INC. (USA)
Customer Service
45133 Industrial Drive
Fremont, CA 94538
Phone415-802-1750
Fax 415-802-1754
7:30 am - 4:00 pm, Pacific Standard Time
Monday thru Friday

# GAME REGISTRATION INFORMATION

Please take a moment to complete the following information about your new Sega game. This information will be essential to you in the future, should you need to request parts or service information, or should you sell or transfer the machine.

Game Name:			
Serial Number: Date of purchase:			
Distributor: Salesperson: Phone number:			
Game moved or sold (date):			
NOTES:			
			NAMES OF THE OWNER OWNER OF THE OWNER OWN
			RATE IN COLUMN TO THE COLUMN T
	recommended in Maria Courses Course in Production Courses (Course Course) and Advanced in Production Course (Course)		
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Follow Instructions: All operating and use instructions should be followed.

Attachments: Do not use attachments not recommended by the product manufacturer as they may cause hazards.

Accessories: Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use only mounting accessories recommended by the manufacturer.

**Moving the Product:** This product should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product to overturn.

**Ventilation:** Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the product and to protect it from overheating; these openings must not be blocked or covered. The openings should never be blocked by placing the product in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

**Power Sources:** This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your location, consult your local power company. For products intended to operate from battery power or other sources, refer to the operating instructions.

Grounding or Polarization: This product is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

**Power Cord Protection:** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

**Overloading:** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

Object and Liquid Entry: Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

Servicing: Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

**Damage Requiring Service:** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a) If the power cord or plug is damaged;
- b) If liquid has been spilled, or objects have fallen into the product;
- c) If the product has been exposed to rain or water;
- d) If the product does not operate normally when following the operating instructions. Adjust only those controls that are explained in the operating instructions. An improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation;
- e) If the product has been dropped or damaged in any way;
- f) When the product exhibits a distinct change in performance; this indicates a need for service.

**Replacement Parts:** When replacement parts are required, be sure the service technician has used replacements parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

**Safety Check:** Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

**Heat:** The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

**Lithium Battery**- Dispose of batteries only in accordance with the battery manufacturer's recommendations. Do not dispose in an open flame condition, since the battery may explode.

Cleaning: When cleaning the monitor glass, use water or glass cleaner and a soft cloth. Do not apply chemicals such as benzine, thinner, etc.

**Location:** This an indoor game machine, DO NOT install it outside. To ensure proper usage, avoid installing indoors in the places mentioned below:

- Places subject to rain/water leakage, or condensation due to humidity;
- In close proximity to a potential wet area;
- · Locations receiving direct sunlight;
- Places close to heating units or hot air;
- •In the vicinity of highly inflammable/volatile chemicals or hazardous matter;
- On sloped surfaces;
- In the vicinity of emergency response facilities such as fire exits and fire extinguishers;
- Places subject to any type of violent impact;
- Dusty places.

#### Installation Precautions

- Verify the amperage of the branch circuit outlet before plugging in the power plug. Do not overload the circuit.
- Avoid using an extension cord. If one is required, use an extension cord of type SJT, 16/3 AWG rated min. 120 VAC, 7A.
- Moving this unit requires a minimum clearance (of doors, etc.) of 32" (W) by 77" (H).
- For the operation of this machine, secure a minimum area of 32" (W) by 42"(D).

#### REGULATORY APPROVALS

This game has been tested and found to comply with the Federal Communications Commission Rules.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This game has been tested and listed by Underwriters Laboratories, Inc., to ANSI/UL22.





# Virtua Fighter 3 50" Deluxe

Height	90 inches
Depth	65 inches
Width	45 inches

Monitor 50" Amperage 7A FB

# **INSTALLATION ITEMS**

The following items are supplied with the machine. Be sure that these items remain with the game if it is transported or sold.

- 1 Service Manual, Virtua Fighter 3
- 1 Tamperproof wrench, M5
- 1 Remote Controller, Mitsubishi Projection TV
- 1 Model 3 PCB warranty shipping carton

# **NOTICE:**

Do not remove the game board from the shield case at any time.

Doing so may void your warranty.

If you have any questions, contact the Sega Technical Services Department immediately.

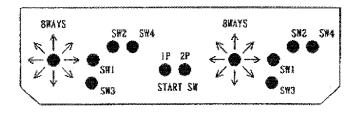
#### ① ON-SCREEN DISPLAY

**Monitor Position** 

HORIZONTAL

Synchronous Frequency 24. 39 kHz

#### ② CONTROL PANEL



PLAYER 1

PLAYER 2

SW1: PUNCH SW2: KICK SW3: GUARD SW4: DODGE

# **ASSEMBLY AND PRECAUTIONS**

- Perform the assembly work by following the procedure stated herein. Failing to comply with the instructions can cause an injury or electrical shock.
- Assembly should be performed as per the instructions in this manual. This is a complex machine and erroneous assembly can cause electrical shock or damage to the machine resulting in undesired operation.
- When assembling the machine, be sure that more than one person is available to perform the work. Depending on the assembly work, there are some cases in which performing the work alone can cause personal injury or damage the game.

When carrying out the assembly work, follow the procedure in the following sequence:

- 1 Assembling the Projection Television Monitor (PTV)
- 2 Assembling the cabinet
- 3 Securing in place (leg adjusters)
- 4 Power supply
- 5 Assembly check

#### ASSEMBLING THE PTV

The Projection Television monitor (PTV) unit for this game is shipped assembled. However, refer to these directions if you should need to disassemble the PTV unit for maintenance.



When performing work on the PTV unit, be sure that two or more persons are available to do the work.

When mounting the PTV on the PTV base, be sure that the work is performed by 4 or more persons. Executing the work by less than 4 persons can cause severe injury.



To perform the work safely, be sure to prepare a step or ladder which is secure and stable. Using an unstable step can cause both personal injury and damage to the product.

By using the specified screws, secure the 2 mask holders to the projection display ceiling.

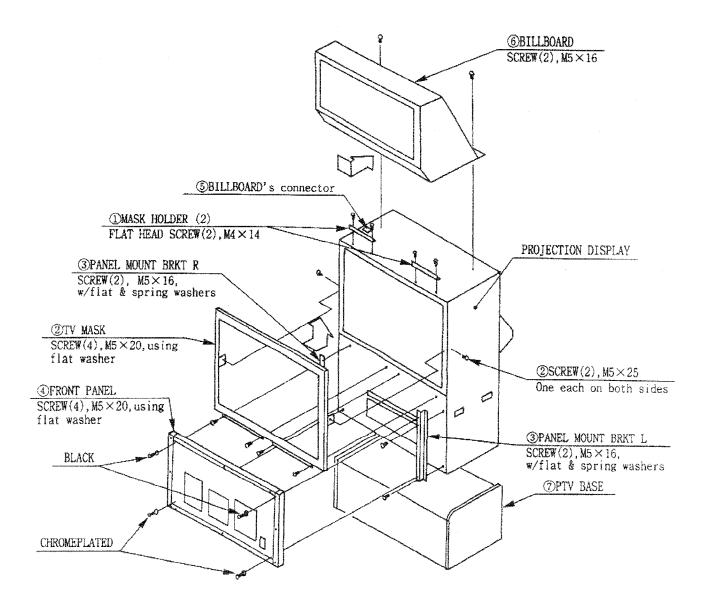
Insert the TV mask from the underside as shown, and secure with 6 screws.

Secure panel mount bracket L and R to the front of the projection display in the installation direction shown with 2 screws for each.

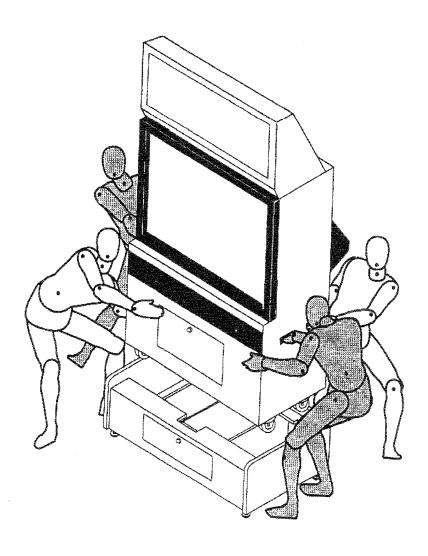
Secure the front panel to both panel mount brackets with a total of 4 screws. At this time, ensure that the upper 2 screws used are black and the 2 lower ones are chromeplated.

Insert the billboard connector into the terminal board of the projection display ceiling.

Insert the billboard from the front as shown and secure with 2 screws.



Mount the assembled PTV on the PTV base. After mounting the PTV, move it to the rear of the PTV base.



Be careful so as not to damage wiring. Damaged wiring can cause an electric shock and short circuit.

Bring the PTV and Game Cabinet together, with a distance of 30 cm between them.

Remove the two tamperproof screws on the right side door of the game cabinet, unlock the door and remove.

Remove the two side access panels. (Refer to photo)

Use the hex bolts and washers supplied to securethe game cabinet to the PTV in 4 places.

There are 4 BNC video cables that need to be connected from teh VPM buffer board in the game cabinet to the PTV. Observe that proper Red/Green/Blue/Sync connections are made for video.

The PTV has the main power wire that passes through the monitor pedestal to the game cabinet. Insert this 3 pin male connector into the proper connector on the inner wall.

The PTV power is brought from the game cabinet to the PTV by cable with a 3 pin white connector route this cable through the PTV and connect.

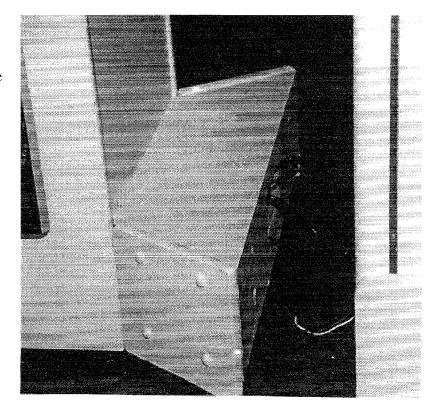
Recheck the connections to ensure that no wires are crossed or missing.

Replace side access panels on two sides and replace all hardware and the main side door to the game cabinet.

Plug game power cord into the wall.

Setup is complete if game is visible on the screen.

Perform assembly checks on page 15.





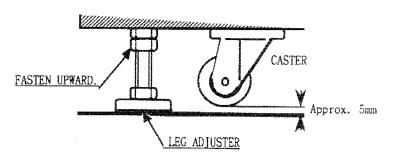
Make sure that all the leg adjusters are in contact with the floor. If they are not, the cabinet can move, causing an accident.

This machine has 8 casters and 6 leg adjusters. When the installation position has been determined, cause the leg adjusters to come into contact with the floor, and make adjustments so that the casters are raised approximately 5mm from the floor. Ensure that the machine is level.

Move the machine to the installation position.

Cause all of the leg adjusters to make contact with the floor. By using a wrench, make adjustments in the height of the leg adjusters to ensure that the machine is level.

After making adjustments, fasten the leg adjuster nut upwards to secure the height of the leg adjuster.



In the test mode, perform the following tests:

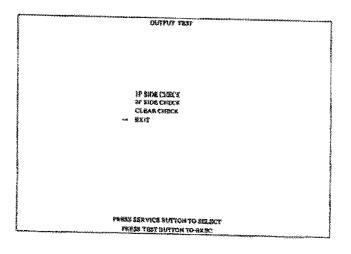
1. Memory Test
Selecting the Memory Test on the test mode menu screen causes the on-board memory to be tested automatically. The game board is satisfactory if the display beside each IC number shows GOOD.

	CPU ROM	1 153 1			
9000	(Croadi Bank)	₩,	i	Afric	
0000	(Crorot Bank)	₹C.	ž	##lis	
9000	(Croint) Bank)	₽C,	3	2415	
0006	(Cromod Bank)	IC.	4	ifik	
9000	(CECANII BANIC)	RC.	5	acth	
0006	(CROMIZ BANK)	AC.	6	20k	
doob	(CROMII BANK)	MC.	7	BUS	
6000	(CROM ID BANK)	PC.	8	ani.	
9000	(CROSS23 BANK)	KC.	÷	905	
0000	(CROMIZE BANK)	¥C.	10	anb	
0000	CROME BANKS	MC.	11	#nb	
9000	(CROMED BANK)	HC.	12	806	
0000	(CROMIN DANK)	RC.	13	\$fib	
6000	(CROMIS DANK)	IC.	14	806	
0000	(CROM)) BANK)	ÞĊ.	15	817b	
GCCD.	(CROM 20 BANK)	K.	16	SO.	
9000	(CROMS)	HC.	17	8file	
9000	(CROM2)	IC.	12	âdh	
0000	(CROMH)	IC.	19	Sale	
0000	(CROMO)	IC.	20	464	
		-			
PR	ESS TEST BUITON :	ro coi	AVE	HUE	

2. Input Test
Selecting the Input Test on the test
mode menu screen causes the
screen (on which each switch is
tested) to be displayed. Press each
switch. For the coin switch test,
insert a coin from the coin inlet
with the coin chute door open. If
the display beside each switch
indicates ON, the switch and wiring connections are satisfactory.

	i	HEUT TE	Т	
MAYEA.		i.P	45	
PUNCH	:	OFF	OFF	
KICK	÷	OFF	OFF	
GUARD	ī	OPF	OFF	
ESCAPE	ŧ	off	OFF	
UP		OFF	OFF	
DOWN	:	OFF	OFF	
LEFT	i	OFF	OFF	
RIGHT	:	OFF	OFF	
START	:	OFF	OFF	
COIN CHI	ΠĒ	ži ;	OFF	
COIN CHE	ΠE	#2 :	OFF	
SERVICE		2	GFF	
TEST		3	OFF	
B SERVIC	6	:	OFF	
a test		:	OFF	

3. Output Test In the Output Test mode, carry out the lamp test to ascertain that each lamp lights up satisfactorily.



SOLONO TEST

SOURID IND. 0 14\_ALL\_SOURID\_OFF SOURID CODE READONS

Press service-test button to send sound code Press service button to select tokko Press test button to exit 4. Sound Test

In the Test mode, selecting Sound Test causes the screen (on which sound-related board and wiring connections are tested) to be displayed.

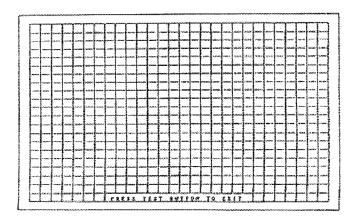
Be sure to check if the sound is satisfactorily emitted from each speaker and the sound volume is appropriate.



PRESS TEST BUTTON TO HEXT

5. C.R.T. Test

In the Test mode menu, selecting C.R.T. Test allows the screen (on which the monitor is tested) to be displayed. Although the monitor adjustments have been made at the time of shipment from the factory, color deviation, etc. may occur due to the effect caused by geomagnetism, the location building's steel frames and other game machines on the periphery. By watching the test mode screen, decide whether an adjustment is needed. If it is necessary, adjust the monitor by referring to the Monitor Adjustments section.



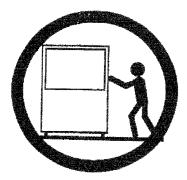


- ♦ When moving the machine, be sure to pull the plug out from the power supply. Moving the machine with the plug inserted can cause the power cord to be damaged, resulting in fire or electric shock.
- ♦ When moving the machine on the floor, retract the leg adjusters so that the casters come in contact with the floor. During transportation, pay careful attention that the casters do not tread over power cords or wires. Damaging the power cords can cause short circuit or electric shock.
- In places with steps or inclines, separate the PTV from the base and cabinet to move them. Attempting to move these parts together, or incline the PTV as it is attached to the base can cause the PTV to fall from the base.
- ♦ When moving the PTV, do not push it from the front or rear. Push from the side at all times. Pushing the PTV from the front or rear can cause it to overturn causeing damage and serious personal injury. Due to the weight of the PTV cabinet, have two or more persons available at all times when attempting to move the PTV.



When lifting or inclining the cabinet, do not hold the controller portion. Holding the controller can cause the controller and installation portion to be damaged due to the empty weight.





#### TEST MODE

This mode checks the oppration of the game board for accuracy, makes monitor color adjustments, and allows for changes to the coin assignments and game assignments.

#### Selection of Test Items:

1. After turning power on, press the test button on the switch unit to cause the following test menu to appear.

TEST NOD-RA CPU MEMORY TEST VIDEO MEMORY TEST BORUNDARY SCAN TEST DEST TUSKS **CUIPVI TEST** TEST ON VOL CAT. YEST THER TEST DAME ASSIGNMENT COIN ASSIGNMENT BOOKKEEPING MAROAM EV BACKUP RAH CLEAR ALL INITIALIZE EXIT SELECT BY SERVICE BUTTON

- 2. By pressing the service button, bring the arrow mark -> to the desired item and press the test button.
- 3. When tests have been completed, bring the arrow -> to Exit and press the test button. The game mode returns to the screen.

## CPU MEMORY TESTS

Check the operation of CPU memory ICs on the IC board. If the IC is satisfactory, "Good" will be indicated. "Bad" will indicate any malfunctions.

```
CPU ROM TEST
         (CROMOS BANK)
 OOOU
                          IC.
                                   1.00
 0000
         (CROMOS BANK)
                          IC. 2
                                   2416
 0000
         ICKOMOL BANKI
                          8C. 3
                                   8416
0000
         (CROMOD BANK)
                          SC. 4
                                   106
         (CROMIT BANK)
0000
                                   arlb
0000
         (CROMIZ BANK)
                          IC. 6
                                   106
0000
         (CROMITE BANK)
                                   8Ab
0000
         (CROMID BANK)
0000
         (CROM2) BAHR)
                          KC. 9
                                   8716
COOD
         (CROMIN BANK)
                          BC. 10
                                  8/16
0000
         (CROM2) BANKS
                          MC. 88
0000
         (CROM20 BANK)
                          BC.
COOD
         (CROM33 DANK)
                          IC. 13
                                  $Ob
COOD
         (CROM32 DAHK)
                          IC. 14
                                  $0b
G000
        ICROMJI BAHKI
                          IC. IJ
0000
        (CROMSO BANK)
                          ic.
                              84
9000
        (CROM3)
                              17
COOD
        (CROME)
                          HC. IL
                                  361b
COCO
        (CROM))
                          IC.
                             39
                                  Adlb
        (CROMO)
                          IC.
                              20
    PRESS TEST BLATTON TO COUNTINUE
```

The test starts immediately after the test item is selected from the test menu. During the test, the "testing now" message is displayed in the lower part of the screen. Press the test button to proceed to the RAM test.

```
CPURAMITEST

GOOD (SDRAM)

GOOD (BACKUP SRAM)

GOOD (SCROLL SDRAM)

GOOD (SCROLL SRAM)

GOOD (SCROLL SRAM)

GOOD (SCROLL SRAM)

FRESS TEST BUTTON TO EXIT
```

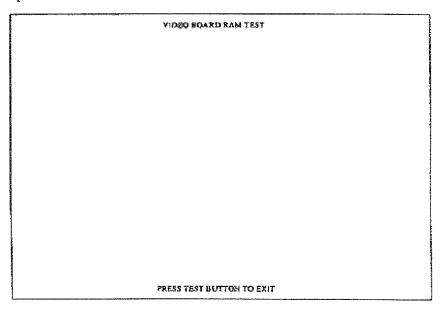
This test starts immediately after proceeding from the CPU ROM test. During the test, the "testing now" message is indicated on the lower part of the screen. In case of an error, several error messages can be displayed. After the test has been completed, press the test button to have the menu mode return to the screen.

# VIDEO MEMORY TEST

This allows the operation of the video memory ICs on the IC board to be tested. When the IC is in good operating condition, "Good" will be indicated. If any malfunction exists, "Bad" will be indicated.

	AIDEO BO	ard rom	TEST	
0000	(VROMOI)	IC. 14	late	
GOOD	(VROMOD)	IC. 23	žace.	
COCD	( EDMOJRY)	IC. 28	lecs.	
COOD	(VROMOZ)	IC. 19	face.	
DOOD	(VROMOS)	IC: 30	face:	
9000	(PROMOT)	IC. 33	late	
5000	(YROMOT)	IC. 32	face	
0000	(VROMO6)	IC. 33	ince	
0000	(YRÓMIL)	IC. 14	lese	
0000	(YROMIÖ)	ic. M	ince	
9000	(YROMIL)	1C. 16	lace	
0000	(VROMIZ)	IC 37	lane	
GÓOD	(YROMI))	1C. 38	a dec	
GOOD	(VROMIL)	IC. 39	1866	
0000	(YEOMIT)	1C #0	Í ansc	
0000	(VROMIE)	IC. 41	lace	
	•			
P.	ress test but	LLON TO C	DUNTINUE	

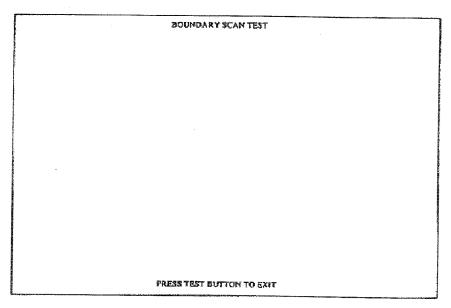
This test startsimmediately after the test item is selected from the test mode menu. During the test, "testing now" will be displayed in the lower part of the screen. Press the test button to proceed to the video RAM test.



This test starts immediately after proceeding from the video board ROM test. During this test, "testing now" will be displayed in the lower part of the screen. If the test is satisfactory, nothing will be displayed. After the test has been completed, press the test button to have the menu mode return to the screen.

#### BO UNDARY SCAN TEST

If there exists any problem with the game hardware, error display will be indicated.



After the test has been completed, press the test button to have the menu mode return to the screen. When this test is performed, be sure to exit the test menu without entering another test item.

#### INPUT TEST

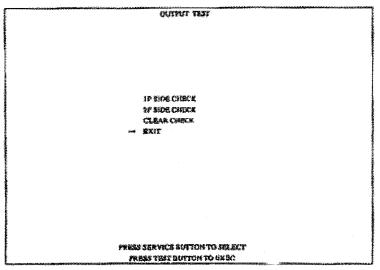
This test displays the state of each switch and button. If the switch or button goes ON when activated, it is satisfactory.

	12	APUT I	TE5	Т	
PLAYER		ŧ.P		22	
PUNCK	:	OFF		OFF	
KICK	;	OFF		OFF	
GUARD	1	OFF		OFF	
ESCAPE	:	OFF		OFF	
UP	;	OFF		OFF	
WWO	;	OFF		OF#	
LEFT	ŧ	OFF		OFF	
RIGHT	;	off		OFF	
START	;	OFF		OFF .	
COIN CH	FTE	#i	:	OFF	
COIN CH	ΠE	1/2	å	OFF	
SERVICE			2	OFF	
TEST			4	OFF	
B SERVIC	8		÷	OFF	
B TEST			ŗ.	OFF	
Press Servi	CE:	TEST	иıг	ITON TO EXIT	

Simultaneously press the service and test button to have the meny mode return to the screen.

#### OUTPUT TEST

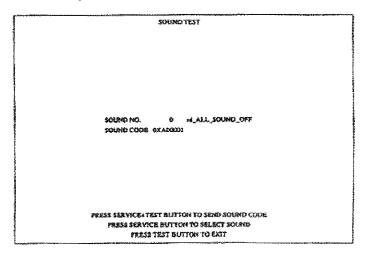
This allows the "versus play" cabinet's billboard display (Winner Lamp, 7 Seg for 1P and 2P) to be checked.



Choose the test item with the service button and press the test button to perform the test. When 1P or 2P is selected, 7-SEG display is show while the winner lamp is blinking. To stop the check, choose clear check. Press the test button to have the menu mode return to the screen.

#### SO UND TEST

This allows sound and background music to be tested.

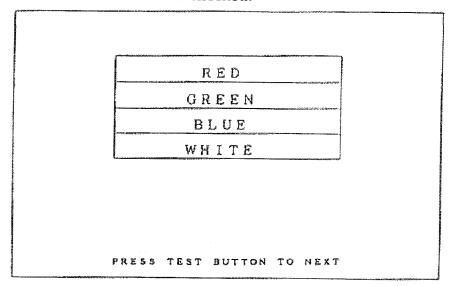


Pressing the service button increases the sound no. Pressing the test button while keeping the service button pressed will have the sound emitted or the music played. The 1P side control panel can also be used. The sound no. can be changed by moving the lever up/down, left/right. Use the punch button to cause the music to play. The kick button stops the background music and the guard button stops sound effects. Press the test button or the 1P side start button to return the menu to the screen.

#### CRT TEST

# A) RGB CO LO R ADJUSTMENT

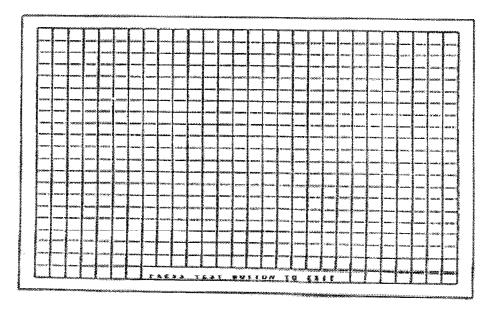
This allows the monitor color to be checked.



Each of the Red, Green and Blue colors is darkest at the left hand end and becomes brighter toward the right hand end. The monitor brightness is correct if the white color bar is black at the left hand end and white at the right hand end. Press the test button or IP punch button to proceed to the next screen.

# B) MONITOR SIZE ADJUSTMENT

This allows the monitor size to be checked.



Make adjustments in a manner so that the checkered portions for checking do not go beyond the screen. Press the test button to have the menu return to the screen.

#### TIMER TEST

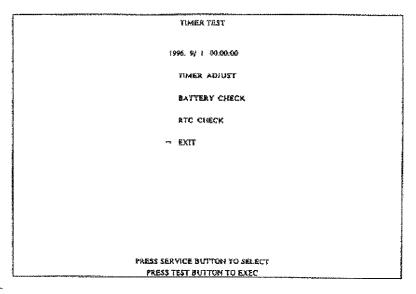
This test mode allows the date (year, month, day) to be set, and the incorporated battery as well as the real time clock to be checked.

Selection of the desired item:

Press the service button to move the arrow -> to the desired item.

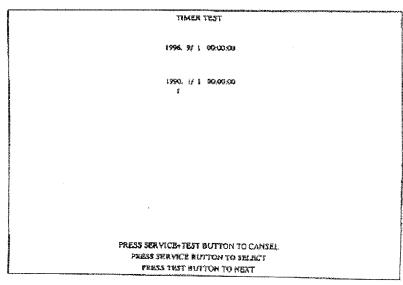
Press the test button to select the item.

The above can also be performed using the 1P side lever up/down and the punch button.



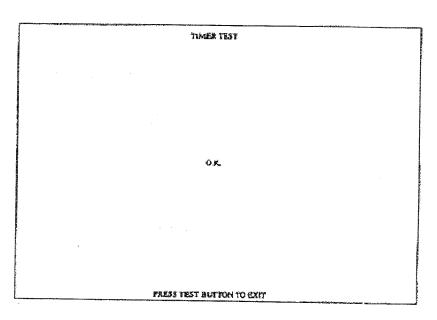
# TIMER ADJUST

This allows the year, month, day, hour, minute and second to be set. Use the test button to choose year->month->day->hour->minute->second and change numerals with the service button. After the setting is complete, pressing the test button at the position second is set will have the item selection screen return. Press the test and service buttons at the same time to exit this page.



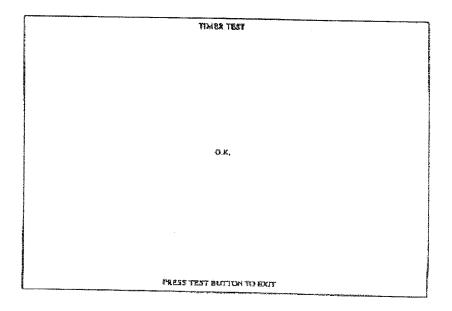
#### BATTERY CHECK

This allows the incorporated battery's voltage to be checked. Pressing the test button in the item selection screen allows for automatic checking. If the check is satisfactory, OK is displayed. If any error exists, "BATTERY VOLTAGE IS LOWER THAN 2.65V" is displayed. Press the test button to have item selection return to the screen.



#### RTC CHECK

This allows the real time clock to be checked. Pressing the test button in the item selection screen allows for automatic checking. If any error exists, "RTC IS BROKEN DOWN" will be displayed. Press the test button to have the item selection screen return.



#### GAME ASSIGNMENTS

In this TEST mode, the settings of game difficulty level, etc. can be changed. SELECI ION OF THE SETTING ITEM

- 1) Press the SERVICE button to move "--" and bring it to the desired item.
- 2) Press the TEST button to change the setting.
- 3) When the setting is completed, move "--" to EXIT and press the TEST button. The above can also be performed by using 1P side LEVER (up/down) and PUNCH button.

GAME ASSIGN	NOM:	
- MARCH COMMENT	*	
MATCH COUNTRY	3.	
MPHCULTY	MORMAG	
CHARGY MAX(ID)	1#7	
PARKY MAXIYSI	109	
ADVERTISE \$0000	CAN	
*APK 4008	<b>⇔</b>	
ABPLAT CANCEL	OH OH	
CONSTAND DATA	<b>0</b> ₩₹	
STACK SPLACE	OFF	
ORIME	CMC	
HAKED	OK OK	
COLOTEY	IAPAN	
Y3 PWeSS	•	
DITIVILES		
****		
PREACT WITH DOR	YES BUTTON	

## (A) MATCH COUNT (1P)

This sets the first to win how many points a match to be a winner in the case of 1P play. The setting from 1 to 5 points is possible. As a standard, it is set to 2.

#### (B) MATCH COUNT (VS)

This sets the first to win how many points a match to be a winner in the case of vs. play. The setting from 1 to 5 points is possible. As a standard, it is set to 3.

#### (C) DIFFICULTY

Sets the game's difficulty and the character's physical strength. The difficulty has 4 categories, i. e., EASY, NORMAL, HARD and HARDEST. Set to NORMAL in the standard setting. ENERGY MAX (100~360) for 1P play and (100~400) for the vs. play can be set on the ENERGY GAUGE. As a standard, set to 180 (for 1P play) and 200 (for vs. play).

#### (D) ADVERTISE SO UND

Determines whether the ADVERTISE SO UND is to be emitted or not. Set to O N or O FF. Set to O N for the standard setting in which the sound is emitted.

#### (E) RANK MODE

Sets whether the rank is to be determined and the results are to be displayed or not. When the game is continued, the determination of rank will be based on the results of the first one game. Set to ON or OFF. Set to ON for the standard setting.

#### (F) REPLAY CANCEL

Determines whether or not the REPLAY CANCEL set by the opponent using the START button is to be made ineffective by your player using the GUARD button. Set to ON or OFF. Set to ON for the standard setting.

#### (G) COMMAND DISP

Set to ON or OFF. When set to ON, only in the case where the COMMAND (while pressing P+K+G+E, press the START button) is inputted in 1P play, the player's COMMAND input is displayed. Set to OFF for the standard setting.

#### (H) STAGE SELECT

Determines whether in the versus play, STAGE select is allowed or not. Set to OFF or CHALLENGER. Set to OFF for the standard setting.

#### (I) DRINK

Determines whether when the Suiken character drinks, his face is to be flushed or not. Set to O K or NG. Set to O N for the standard setting.

#### (J) NAKED

Determines 1P side setting of Takaarashi's appearance. Set to OK or NG. In case of OK, he wears loincloth only, and a Yukata robe in case of NG. Set to OK for the standard setting.

#### (K) COUNTRY

Determines which one the Game Specifications are to be set to, JAPAN or USA or EXPORT.

#### (L) VS FINISH

Determines how many opponent characters your player should win over until Game Over. Setting made is between 0~10. When set to 1~10, if your player wins over the set number of opponent characters, the game is over. When set to 0, the game continues irrespective of the number of the opponent characters your player win over. Set to 0 for the standard setting.

#### (M) INITIALIZE

Initializes all of the GAME ASSIGNMENT settings.

#### (N) EXIT

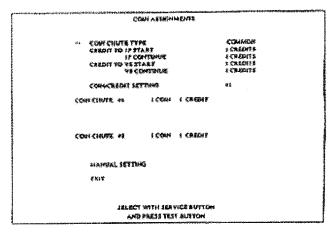
Causes the MENU mode to return to the screen.

#### CO IN ASSIGNMENTS

In this mode, the CO IN/CREDIT setting, etc. can be changed

- 1) Press the SERVICE button to move "--" and bring it to the desired setting item.
- 2) Press the TEST button to cause the setting to change.
- 3) When the setting has been completed, move "--" to EXIT and press the TEST button.

The above can also be performed by using 1P side LEVER (up/down) and PUNCH button.



COME ASSIGNMENTS

-- CHIN CRUST THER INGIVIDUAL CREATE TO BE START I CREATE IN CREATE

(COMMON Setting)

(INDIVIDUAL setting)

#### A) CO IN CHUTE TYPE

Set to either of the following as applicable.

CO MMO N The cabinet type in which 2 players use a coin chute in common. INDIVIDUAL Each of the 2 players uses his own coin chute (Versus City, etc.)

(B) CREDIT TO 1P START

(1~5 CREDITS)

1P CONTINUE (1~5 CREDITS)
Sets the credits required for start/continue for 1P play.

(C) CREDIT TO VS START

(1~5 CREDITS)

VS CONTINUE

(1~5 CREDITS)

Sets the credits required for start/continue for vs. play.

(D) CO IN/CREDIT SETTING (#1 ~ #27)

(INDIVIDUAL setting)

Sets the CREDIT increase increment per coin insertion. There are 27 settings from #1 to #27, expressed in OO CREDITS as against OO COINS inserted. Note that #27 refers to FREE PLAY. For details, refer to Table 1 (COMMON) and Table 2 (INDIVIDUAL).

#### (E) MANUAL SETTING

The CREDITs incremental increase settings as against a coin insertion are shown in further details than in (D) above (refer to Table 3). Note that when this MANUAL SETTING is performed, settings as per D above, Coin Credit setting becomes ineffective.

NAME OF	SETTING	COIN	CHUTE 1	COIN	CHUTE 2
SETTING	# 1	1 COIN	1 CREDIT	1 COIN	1 CREDIT
SETTING	# 2	1 CO1N	2 CREDITS	1 COIN	1 CREDIT
SETTING	# 3	1 COIN	3 CREDITS	1 COIN	1 CREDIT
SETTING	# 4	1 COIN	4 CREDITS	1 COIN	1 CREDIT
SETTING	# 5	1 COIN	5 CREDITS	1 COIM	1 CREDIT
SETTING	# 6	1 COIN	2 CREDITS	1 COIM	2 CREDITS
SETTING	# 7	1 COIN	5 CREDITS	1 COIN	2 CREDITS
SETTING	# 8	1 COIN	3 CREDITS	1 COIN	3 CREDITS
SETTING	# 9	1 COIN	4 CREDITS	1 COIN	4 CREDITS
SETTING	#10	1 COIN	5 CREDITS	1 COIN	5 CREDITS
SETTING	#11	1 COIN	6 CREDITS	1 COIN	6 CREDITS
SETTINO	#12	2 COINS	1 CREDIT	2 COINS	1 CREDIT
SETTING	#13	1 COIN	1 CREDIT	2 COINS	1 CREDIT
SETTING	#14	1 COIN	2 CREDITS	2 COINS	1 CREDIT
SETTING	#15	1 COIN	1 CREDIT	1 COIN	1 CREDIT
		2 COINS	3 CREDITS	2 COINS	3 CREDITS
SETTING	#16	1 COIN	3 CREDITS	1 COIN	1 CREDIT
	•			2 COINS	3 CREDITS
SETTING	#17	3 COINS	1 CREDIT	3 COINS	1 CREDIT
SETTING	#18	4 COINS	1 CREDIT	4 COINS	1 CREDIT
SETTING	#19	1 COIN	1 CREDIT	1 COIN	1 CREDIT
		2 COINS	2 CREDITS	2 COINS	2 CREDITS
		3 COINS	3 CREDITS	3 COINS	3 CREDITS
		4 COINS	5 CREDITS	4 COINS	5 CREDITS
SETTING	#20	1 COIN	5 CREDITS	1 COIN	1 CREDIT
				2 COINS	2 CREDITS
	90			3 COINS	3 CREDITS
	Defections			4 COINS	5 CREDITS
SETTING	#21	5 COINS	1 CREDITS	5 COINS	1 CREDIT
SETTING	#22	1 COIN	2 CREDITS	3 COINS	1 CREDIT
				5 COINS	2 CREDITS
SETTING	#23	2 COINS	1 CREDIT	2 COINS	1 CREDIT
		4 COINS	2 CREDITS	4 COINS	2 CREDITS
		5 COLKS	3 CREDITS	5 COINS	3 CREDITS
SETTING	#24	1 COIM	3 CREDITS	2 COINS	1 CREDIT
				4 COINS	2 CREDITS
				5 COINS	3 CREDITS
SETTING	#25	1 COIN	1 CREDIT	1 COIN	1 CREDIT
	OPPRESENT SERVICES	S COINS	2 CREDITS	S COINZ	2 CREDITS
	-	3 COINS	3 CREDITS	3 COINS	3 CREDITS
		4 COINS	4 CREDITS	4 COINS	4 CREDITS
ngan sir		5 coins	6 CREDITS	5 COINS	6 CREDITS
SETTING	#26	1 COIN	6 CREDITS	1 COIN	1 CREDIT
	Henrylanda		one and an analysis of the state of the stat	2 COINS	2 CREDITS
	Belina'ı (t.		Coline at Manufall	3 COINS	3 CREDITS
			Cipped pp	4 COINS	4 CREDITS
(IDMM TILA	4.0 =		No.	5 COINS	6 CREDITS
SETTING	#27	FREE	PLAY	FREE	PLAY

NAME OF S	ETI	ING	COIN	CHUTE	FOR	EACH SEAT	NAME OF	SET	TING	COIN	CHUTE	FOR	EACH SEAT
SETTING	#	1	1	COIN	1	CREDIT	SETTING	#	2 1	5	COINS	1	CREDIT
SETTING	#	2	1	COIN	2	CREDITS	SETTING	#	2 3	2	COINS	1	CREDIT
SETTING	#	3	T	COIN	3	CREDITS				4	COINS	2	CREDITS
SETTINO	#	1	1	COIN	4	CREDITS				5	COINS	3	CREDITS
SETTING	#	5	1	COIX	5	CREDITS	SETTING	#	2 5	1	COIN	I	CREDIT
SETTING	#	1 1	1	COIN	6	CREDITS				2	COINS	2	CREDITS
SETTINO	#	1 2	2	COINS	1	CREDIT				3	COINZ	3	CREDITS
SETTING	#	1 5	1	COIN	1	CREDIT				4	COINS	4	CREDITS
			2	COINS	3	CREDITS	2022			AND DESCRIPTION OF THE PROPERTY OF	COINS		CREDITS
SETTING	#	1 7	3	COINS	1	CREDIT	SETTING	#	27		FREE	P	LAY
SETTING	#	18	4	COINS	1	CREDIT							
SETTING	群	1 9	1	COIN	1	CREDIT							
ene filiano			2	COINS	2	CREDITS							
NAMES OF THE PROPERTY OF THE P			3	COINS	3	CREDITS							
			4	COINS	5	CREDITS							

COIN TO CREDIT	1	COIN	1	CREDIT
(No. of coins required for one credit)	2	COINS	1	CREDIT
(4.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	3	COINS	1	CREDIT
	4	COINS	1	CREDIT
	5	COINS	1	CREDIT
	6	COINS	1	CREDIT
	7	COINS	1	CREDIT
	8	COINS	1	CREDIT
	9	COINS	1	CREDIT

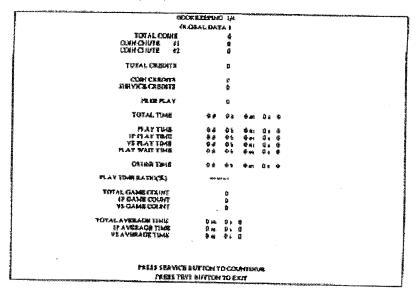
BONUS ADDER	NO BONUS ADDER
(BONUS COIN)	2 COINS GIVE 1 EXTRA COIN
	3 COINS GIVE 1 EXTRA COIN
	4 COINS GIVE 1 EXTRA COIN
	5 COINS GIVE 1 EXTRA COIN
	6 COINS GIVE 1 EXTRA COIN
	7 COINS GIVE 1 EXTRA COIN
	8 COINS GIVE 1 EXTRA COIN
	9 COINS GIVE 1 EXTRA COIN

COIN CHUTE (#1/#2)	1	COIN	COUNTS	AS	1	COIN
MULTIPLIER	1	COIN	COUNTS	AS	2	COINS
(For each coin chute)	1	COIN	COUNTS	AS	3	COINS
	1	COIN	COUNTS	AS	4	COINS
	1	COIN	COUNTS	AS	5	COINS
	1		COUNTS		6	COINS
	1	COIN	COUNTS	AS	7	COINS
	1	COIN	COUNTS	AS	8	COINS
	Ţ	COIN	COUNTS	AS	9	COINS

#### BOOKKEEPING

This test mode allows each of the data such as the number of coins inserted, credits, time and game frequency to be checked.

• GLO BAL DATA 1(1/4)



### (A) TO TAL CO INS

Displays the number of all the coins inserted.

#### (B) CO IN CHUTE #1

Displays the number of coins inserted in CO IN CHUTE #1.

## (C) CO IN CHUTE #2

Displays the number of coins inserted in CO IN CHUTE #2.

#### (D) TO TAL CREDITS

Displays the total number of credits.

# (E) CO IN CREDITS

Displays the number of credits from the coins inserted.

#### (F) SERVICE CREDITS

Displays the number of credits from the input by using the SERVICE button.

#### (G) FREE PLAY

Displays the frequency of game start in FREE PLAY.

#### (H) TO TAL TIME

Displays the total energized time of the machine.

# (I) PLAY TIME Displays game play time. (J) 1P PLAY TIME

Displays the play time by 1P (against Computer).

#### (K) VS PLAY TIME

Displays vs. play time.

#### (L) PLAY WAIT TIME

Displays wait time as in the SELECT MODE, etc. during play.

#### (M) OTHER TIME

Displays the ineffective play time during which game can not be played due to WARNING, etc., or discontinued due to some accident, etc.

#### (N) PLAY TIME RATIO

Displays the ratio of PLAY TIME as against the total energized time.

#### (O) TO TAL GAME COUNT

Displays the total game play frequency.

#### (P) 1P GAME COUNT

Displays the frequency of play by 1P (against CPU)

#### (Q) VS GAME CO UNT

Displays the vs. play frequency.

#### (R) TO TAL AVERAGE TIME

Displays the total average play time.

#### (S) 1P AVERAGE TIME

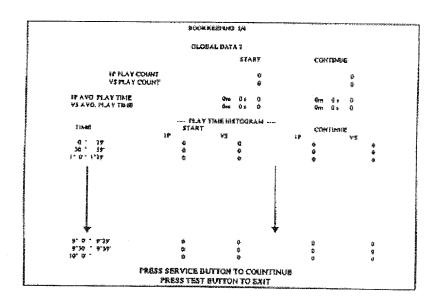
Displays the average time of play by 1P (against CPU).

#### (T) VS AVERAGE TIME

Displays the average play time in vs. play.

Press the SERVICE button to proceed to the next page (2/4).

Press the TEST button to have the MENU MODE return to the screen.

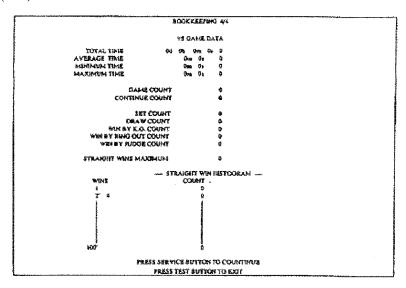


(U)
Displays the frequency of play in each of 1P game and vs. game.
Displays the average play time in each of 1P play and vs. play.
(W)

Displays by-play-time histogram.

Press the SERVICE button to proceed to next page (3/4). Press the TEST button to proceed to the next page.

#### 1P GAME DATA(3/4)



#### (X)TO TAL TIME

Displays the total play time in 1P play.

#### (Y)AVERAGE TIME

Displays the average play time in 1P play.

#### (Z)MINIMUM TIME

Displays the minimum play time in 1P play.

#### (a)MAXIMUM TIME

Displays the maximum play time in 1P play.

#### (b)GAME COUNT

Displays the frequency of 1P play.

#### (c)CONTINUE COUNT

Displays the frequency of CO NTINUE play in 1P play.

#### (d)SET COUNT

Displays the total set count in 1P play.

#### (e)DRAW COUNT

Displays the frequency of DRAW in 1P play.

#### (f)WIN BY K.O.COUNT

Displays the frequency of win by K.O.

(g)WIN BY RING OUT COUNT Displays the frequency of win by ring out in 1P play.

## (h)WIN BY JUDGE COUNT

Displays the frequency of win by JUDGE COUNT in 1P play.

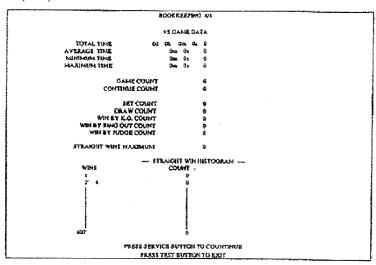
# (i) RO UND DATA HISTO GRAM

Displays by-round frequency of play and win, play time and win ratio in 1P play.

Press the SERVICE button to proceed to next page (4/4).

Press the TEST button to have the MENU MODE return to the screen.

### VS GAME DATA (4/4)



### (i) TO TAL TIME

Displays the total play time in vs. play.

### (k) AVERAGE TIME

Displays the average play time in vs. play.

### (I) MINIMUM TIME

Displays the minimum play time in vs. play.

### (m) MAXIMUM TIME

Displays the maximum play time in vs. play.

### (n) GAME COUNT

Displays the frequency of vs. play.

### (o) CONTINUE COUNT

Displays the frequency of CONTINUE play in vs. play.

### (p) SET COUNT

Displays the total set count in vs. play.

### (q) DRAW COUNT

Displays the frequency of DRAW in vs. play.

### (r) WlN BY K. O. COUNT

Displays the frequency of win by K.O. in vs. play.

### (s) WIN BY RING OUT COUNT

Displays the frequency of win by ring out in vs. play.

### it) WIN BY JUDGE COUNT

Displays the frequency of win by JUDGE COUNT in vs. play.

### (u) STRAIGHT WIN HISTO GRAM

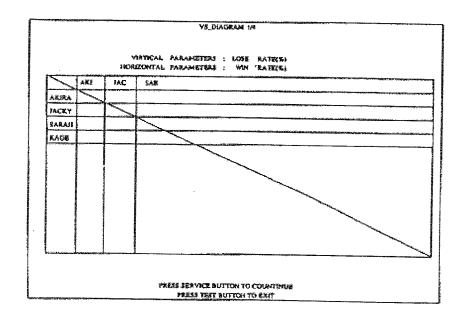
Displays the straight win histogram in vs. play.

Press the SERVICE button to proceed to next page (1/4). Press the TEST button to have the MENU MODE return to the screen.

### 2)VS DIAGRAM

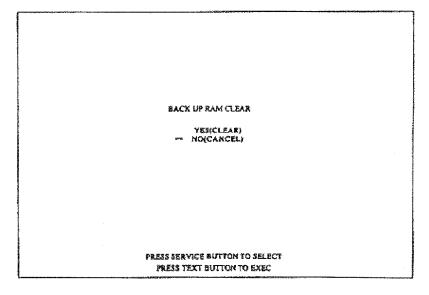
This allows each character's data to be checked.

Press the SERVICE button to proceed to the next page (all pages). Press the TEST button to have the MENU MODE return to the screen.



### BACK UP RAM CLEAR

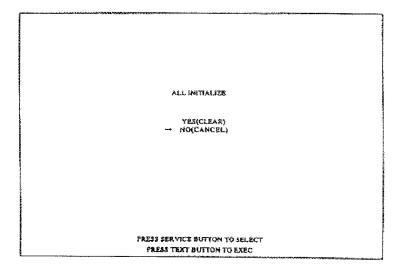
Clears the contents of BOOKKEEPING.



When clearing, bring "--" to "YES" by using the SERVICE button and press the TEST button. To have the MENU MODE return to the screen, bring "--" to "NO" and press the TEST button. When clearing has been finished, "COMPLETED" will be displayed. Pressing the TEST button will have the MENU MODE return to the screen. The above can also be performed by using 1P side LEVER (up/down) and PUNCH button.

### ALL INITITALIZE

In this TEST mode, the contents of all settings are initialized.



When initializing, bring the arrow "--" to "YES" by using the SERVICE button and press the TEST button. To have the MENU return to the screen, bring "--" to "NO" and press the TEST button. When initialization has been finished, "COMPLETE" will be displayed. Pressing the TEST button will have the MENU return to the screen. The above can also be performed by using 1P side LEVER (up/down) and PUNCH button.

### REPLACMENT OF THE FLUORESCENT LAMP



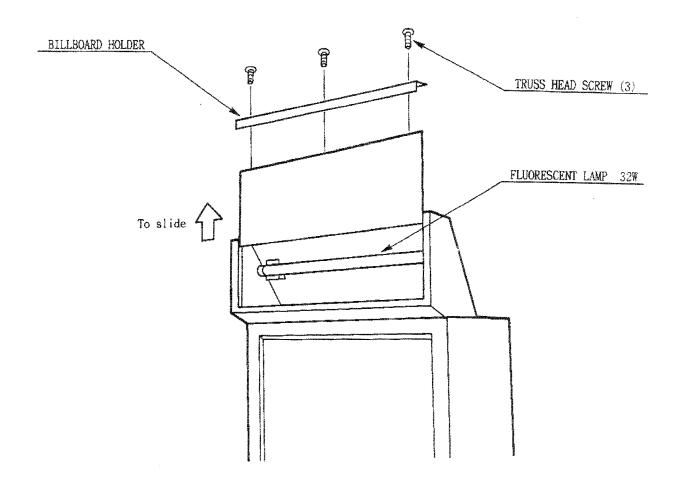
When performing work, be sure to turn power off. Working on the machine with power on can cause an electric shock or short circuit accident.

The fluorescent lamp, which gets very hot, can cause burns. Be very careful when replacing the fluorescent lamp.



To perform work safely and securely, be sure to prepare a step which is in a secure and stable position. Using an unstable step can cause falls resulting in both personal injury and product damage.

Remove the billboard holder and pull the billboard upward to remove and replace the fluorescent lamp.



### **TROUBLESHOOTING**



In order to prevent an electric shock, be sure to turn power off before performing work and touching the interior of the machine.

Be careful so as not to damage wiring. Damaged wiring can cause an electric shock or short circuit accident.

For troubleshooting, first check the connection of the wiring connectors.

PROBLEM	CAUSE	COUNTER MEASURE
When the main SW is turned ON, the machine is not activated.	The cord is not plugged in. Incorrect power source/voltage.  Primary or secondary fuse blown.	Firmly insert the plug into the outlet. Make sure that the power supply voltages are correct. First, remove the cause of overcurrent, then replace the fuse. Primary Fuse: 7A 250V Fast Blo

The items listed below will assist in troubleshooting when a problem occurs. As a first step, check all wiring connector connections and verify AC power to the machine.

TABLE 1: TROUBLESHOOTING

PROBLEM	CAUSE	COUNTER MEASURE
MONITOR screen is blackened and the fluorescent lamp does not light up.	Primary or secondary fuse blown.	First, remove the cause of overcurrent, then replace the fuse. Primary Fuse: 7A 250V Fast Blo
MONITOR screen is all blue.	Defective connections between boards.	Make sure of correct connections between boards.
The color of image on MONITOR screen is incorrect.	Incorrect monitor adjustment. RGB connections are mixed up.	Make appropriate adjustments. Reconnect RGB cables correctly.
The on-screen image of the monitor sways or shrinks.	The power source and voltage are not correct.	Make sure that the power supply voltages are correct.
During game play, when controller switch is moved, no response onscreen.	SW malfunctioning.	Replace SW.
Marquee lamp doesn't light up	Fluorescent lamp needs replacement. The connector is disconnected.  Primary fuse is blown.	Replace lamp.  Check connector connections in the marquee.  Replace fuse.
Sound is not emitted.	Sound volume adjustment is not correct.  Malfunctioning of sound board and/or memory.	Adjust the service panel volume control knob.  Perform the SOUND TEST.  Replace secondary fuse.
Game makes sounds, but has no picture.	Secondary fuse blown.	Replace the secondary fuse.



In order to prevent an electric shock, be sure to turn power off before performing work and touching interior parts of the machine.

Be careful so as not to damage wiring and cause an electric shock or short circuit.



Do not expose the game board without good reason. In this product, setting changes are made during the test mode. The game board need not be operated. Use the game board as is, with the settings made at the time of shipment.

### TAKING OUT THE SHIELD CASE ASSEMBLY

When a problem occurs on the game board, remove the shield case assembly for return to the factory by using the following procedure:

Turn the main switch off.

The shield case is inside the cabinet, accessible from the locked door on the right side.

Remove two tamperproof screws using the tool provided to you. Unlock the side door and remove.

Remove connectors to filter board on shield case assembly and remove 4 wood screws that secure the shield case to the cabinet. Remove the shield case from the cabinet, and exercise care not to drop the shield case when doing so.

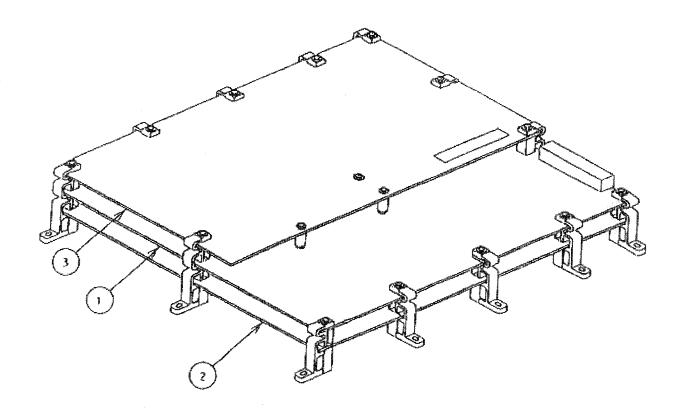
Place shield case securely in the re-useable box provided to you with the game.



Do not open the shield case for any reason. Any inspection or repairs to the game board must be performed at the Sega facility only. Removing the game board from the shield case may cause your factory warranty to be voided.

### FOR REFERENCE ONLY

### COMPOSITION OF GAME BOARD



	PART No.	DESCRIPTION
GAME BD (①+②+③)	833-12712	GAME BD VIRTUA FIGHTER 3
CPU BD ①	837-11858	MODEL3 CPU BD COM
VIDEO BD ②	837-11859	MODEL3 VIDEO BD COM
ROM BD ③	834-12821	ROM BD VIRTUA FIGHTER 3

### GAME BOARD SERVICE RECORD

This page is provided for your use in tracking repairs or replacements of your Sega game PCBs and assemblies. This information can help provide a service history for your game should it ever be sold or transferred.

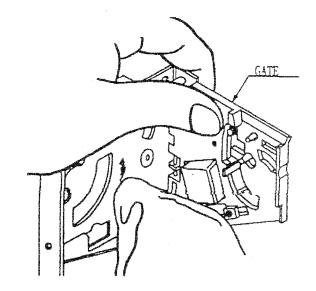
DATE	BOARD ASSY NO.	PCB SERIAL NO.	RMA NO.
	_		
EXCELLENCE SECTION AND AND AND AND AND AND AND AND AND AN			
Managery with an indigent of the Annahum State of the Sta			
***			

### HANDLING THE COIN JAM

Even when the REJEGT button is pressed, if the coin is not rejected, open the coin chute door and open the selector gate. After removing the jammed coin, put a normal coin in and check to see that the selector correctly functions.

### CLEANING THE COIN SELECTOR

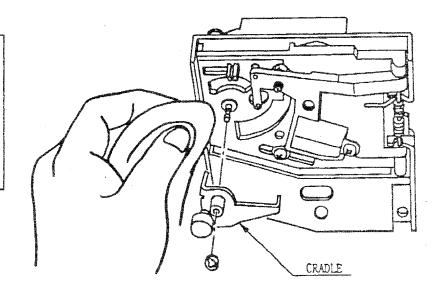
- 1) Turn the power for the machine OFF. Open the coin chute door.
- 2) Open the gate and dust off by using a soft brush (made of wool, etc.).
- Remove stain by wiping with a soft cloth which contains water or chemicals detergent.
- Remove the CRADLE. When removing the retaining ring (E ring), b very careful so as not to bend the shaft.
- 5) Remove stain from the shaft and pillow portions by wiping off with a soft cloth, etc.
- 6) After wiping off a per 5 above, further apply a dry cloth, etc. to cause the coin selector to dry completely.



### NOTE:

Absolutely do not apply machine oil, etc. to the coin selector.

After cleaning the coin selector, insert a regular coin in the normal working status and ascertain that the selector correctly functions.



### **ADJUSTMENTS**



Since the projector has been adjusted at the time of shipment, do not make any further adjustments without good reason.

Fine adjustments are stored in the projector. Pressing the fine adjustment switch (Convergence adjustment) results in entering the fine adjustments mode, and this may cause the stored fine adjustment to be changed. During work other than for adjustment, should you touch the fine adjustment switch by mistake, immediately turn off power by using the main switch and then turn it back on again. If any distortion or color deviation is found in the test mode, and adjustments are needed, use the specified adjustment knob or perform the adjustments by using the remote control. Note that projector models and makes may vary, and adjustment methods will differ dependent on the manufacturer.



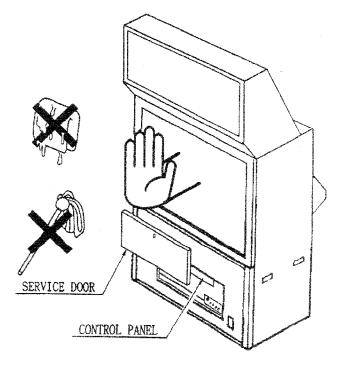
The projector is subject to color deviation due to convergence deviation caused by geomagnetism at the installation location and peripheral magnetic field. After the installation of machine, and before commencing operation, check for convergence deviation and, if deviated, make necessary adjustments.

### CLEANING THE SCREEN



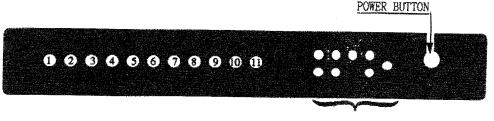
Since the projector screen is highly susceptible to damage, pay careful attention to its handling. When cleaning, refrain from using water or volatile chemicals.

When the screen surface becomes dirty with dust, etc, clean it using a soft cloth such as gauze. When water and volatile chemicals such as benzine, thinner, etc, spill onto the the screen surface, it may be susceptible to damage, therefore, refrain from exposing the surface to these liquids. Also, since the screen surfaces are easily susceptible to damage from abrasion, avoid rubbing them with any hard materials or using a duster.



### MITSUBISHI PROJECTOR

### ☐ MITSUBISHI PROJECTOR CONTROL PANEL



### CONVERGENCE ADJUSTMENT SW

(1)	V.	POS
(6)	CO	NT

(2) H. POS

3 R-GAIN

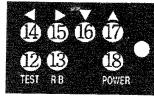
4 G-GAIN

(5) **B**-GAIN

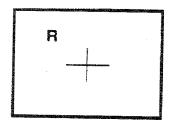
(1) R·H·L

Linearity adjustments in horizontal directions (red or blue) are made.

### STATIC CONVERGENCE ADJUSTMENT



Convergence Adjustment SW



- 12 TEST
  - TEST Test mode on/off key
- 13 R/B
- R/B shift key
- (4) <
- Left shift key
- (15) D
- Right shift key
- (16) V
- Lower shift key
- Upper shift key
- (18) POWER
- Power button
- For the convergence adjustment mode, press the test mode on/off key.
- Ensure that "R" is displayed on the screen.
- Make adjustments so as to cause the red cross pattern to match with the green cross pattern by using the left shift key (14), right shift key (15), lower shift key (16), and upper shift key (17).
- By using the R/B shift key (13), cause the red adjustment "R" to shift to blue adjustment "B" and make sure that "B" is displayed on the screen.
- In the same manner as above, make the blue cross pattern match with the green cross pattern.
- After making adjustments, press the test mode on/off key to cancel the convergence adjustment mode.



Although remote control buttons other than those specified below do not function even if pressed during convergence adjustment, do not press them during adjustment work to avoid causing a malfunction.

Operate the remote control towards the PTV screen. If directed other than toward the screen, the remote control does not function.

### BEFORE USING THE REMOTE CONTROL

First, make sure that the main switch on the projector's control panel is ON and the LED adjacent to the main switch is lit.

For convergence adjustment mode, press the test button. Ensure that "R" is displayed on the screen.

Make adjustment so as to cause the red cross pattern to match with the green cross pattern. When the red cross matches the green cross, the green cross turns yellow or white.

Use the remote control buttons as shown below to move the red cross.

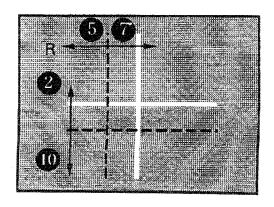
- (5) to the left
- (7) to the right
- (2) Upward
- (10) Downward

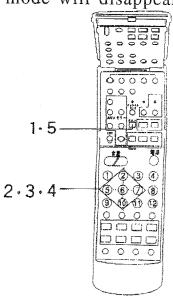
Use remote control buttons (6) to shift "R" to "B." Make sure "B" is displayed on the screen. Each time button (6) is pressed, red and blue adjustments are shifted.

In the same manner, cause the blue cross to match with the green cross. When the blue cross matches, the green cross will turn white.

After adjustments are made, press the test button to cancel the convergence adjustment.

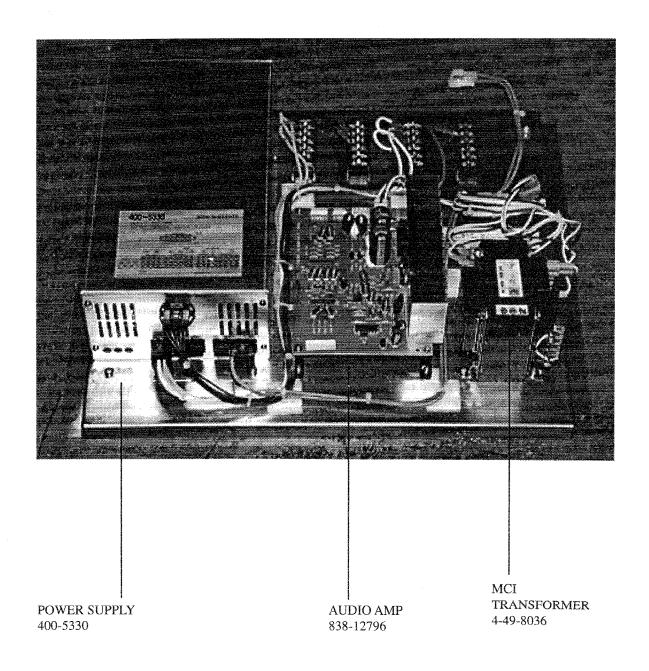
When 2 minutes or more elapse in the convergence mode screen without any action being taken, the on-screen adjustment mode will disappear.



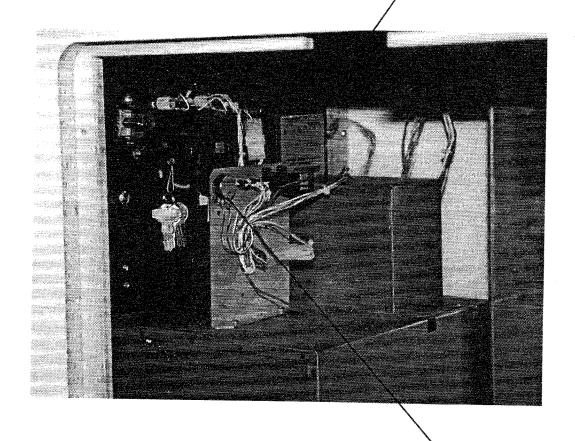




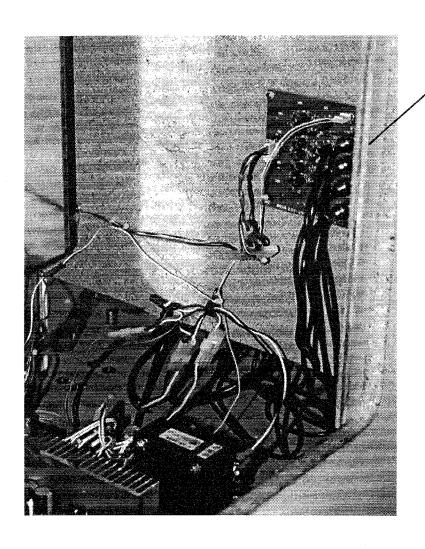
CONTROL PANEL GRAPHIC CMGG-00671 MARQUEE GRAPHIC CMGG-00679 INSTRUCTION GARPHIC CMGG-00673 MONITOR SIDE GRAPHIC CMGG-00672 GREEN BUTTON 58-2610-13G **RED BUTTON** 58-2610-10G YELLOW BUTTON 58-2610-15G WHITE BUTTON STVV-00225 **JOYSTICK** 50-7608-130 **VALIDATOR** 42-6969-00 COIN DOOR



BILL VALIDATOR 42-6969-00



VOLUME 5K POT TEST SERVICE BUTTONS



VPM BUFFER BOARD 839-0582

### Virtua Zighter 3 DELUXE MANUAL COMMENTS

SEGA has made every effort to ensure that this manual is accurate. If you find any errors or omissions, or have other comments on the *Virtua Fighter 3* manual, please write them below, detach, and deliver this page by FAX or mail to:

SEGA ENTERPRISES INC. (USA)

ATTN: Stephanie Voss 45133 Industrial Drive Fremont, CA 94538 USA

FAX: (415) 802-1754

Comments: Optional Identification Information: Name: Company: \_\_\_\_\_ Address: City, State, Zip:\_\_\_\_\_ FAX: \_\_\_\_\_

4 42,60

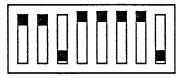
### **ADDENDUM**

This Procedure is to set the Virtua Fighter 3 for 4 Coins to start and 3 Coins to continue.

### 1) Setting Cash Code Dollar Bill Acceptor:

Dip switch settings

1 2 3 4 5 6 7 8 OFF



NO.

Switches 1 and 2 must be set in the OFF position, remaining switches 3 - 8 per this diagram.

### 2) Setting of Coinage and Coin to Credit:

COM CULTE TYPE

Enter intoTest Mode by depressing Test Button on Service Panel through the Coin Door. Use Service Button to scroll to "COIN ASSIGNMENTS" category and press Test button to get into "COIN ASSIGNMENTS".

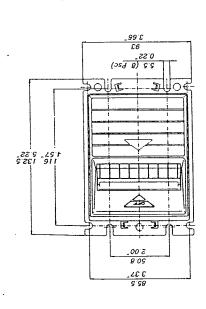
### **COIN ASSIGNMENTS**

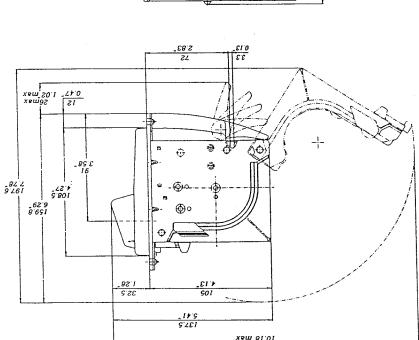
COIN CHU	IE IYPE		COMMON
CREDIT TO	O 1P START 1P CONTINUE		4 CREDIT (S) 3 CREDIT (S)
CREDIT TO	VS START VS CONTINUE		4 CREDIT (S) 3 CREDIT (S)
COIN/CRE	DIT SETTING #1		
	COIN CHUTE #1	1 COIN	1 CREDIT
COIN/CREI	DIT SETTING #2		
	COIN CHUTE #2	1 COIN	1 CREDIT
MANUAL S	ETTING		
EXIT			

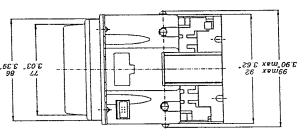
SELECT WITH SERVICE BUTTON
AND PRESS TEST BUTTON

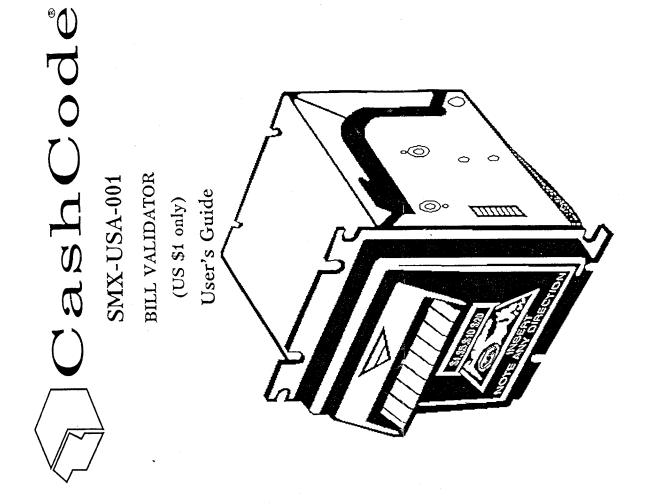
3) Setup complete, exit Test Mode

# 3. MOUNTING AND OVERALL DIMENSIONS









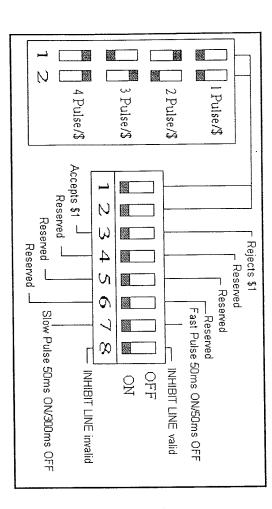
CashCode Company Inc. 3–390 Edgeley Blvd. Concord, Ontario Canada L4K 326

Tel.

(905) 669-2274 1-800-584-2633 (905) 669-2633 1-800-593-2633

Fax:

### **DIP Switch Settings**



### 1. ISOLATED PULSE INTERFACE

(INHIBIT LINE feature disabled)

1. Set DIP Switch 8 to ON position.

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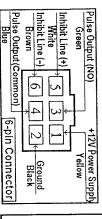
345

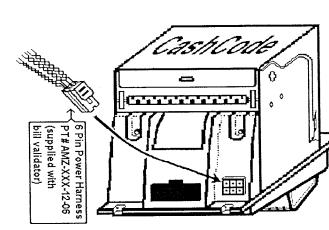
67

 $\infty$ 

2. Connect bill validator to the machine controller via CashCode's 6 Pin Power Harness PT# AMZ-XXX-12-06.

The Pulse Output is a bounce free N/O contact and polarity of output wiring does not matter





## 2. ISOLATED PULSE INTERFACE (INHIBIT LINE feature enabled)

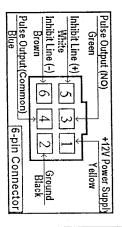
1. Set DIP Switch 8 to OFF

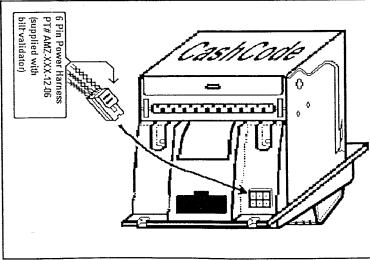


 Connect bill validator to the machine controller via CashCode's<sup>®</sup> 6 Pin Power

PT# AMZ-XXX-12-06

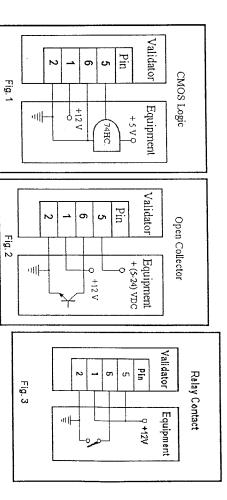
The Pulse Output is a bounce free N/O contact and polarity of output connection does not matter.





3. Provide wiring of the INHIBIT LINE depending on machine controller lockout circuitry. See Fig. 1, Fig. 2 or Fig. 3 below.

If INHIBIT LINE wires are not connected properly the red light on the front of bill validator goes  $\mathbf{ON}$  and bill validator will not accept any bank note.





### Quick Start for Easy Installation

Bring the Projection Television Monitor (PTV) and control Cabinet together, with a distance of 12 inches between them.

Using the wrench provided in the convenience kit, remove the two tamperproof screws on the right side door of the control cabinet, unlock the door and remove.

Remove the two side access panels located on the lower control cabinet base.

Use the hex bolts and washers supplied to securethe game cabinet to the PTV in 4 places.

There are 4 BNC video cables that need to be connected from the VPM buffer board in the game cabinet to the PTV. Observe that proper Red/Green/Blue/Sync connections are made for video.

The PTV has the main power wire that passes through the monitor pedestal to the game cabinet.

Insert this 3 pin male connector into the proper connector on the inner wall.

The PTV power is brought from the game cabinet to the PTV by cable with a 3 pin white connector. Route this cable through the PTV and connect.

Recheck the connections to ensure that no wires are crossed or missing.

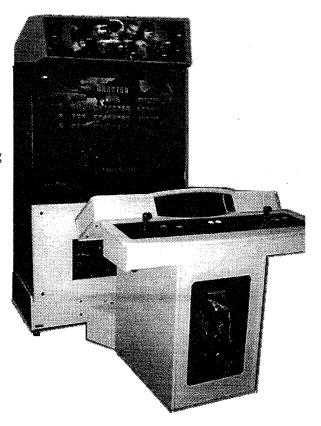
Replace side access panels on two sides and replace all hardware and the main side door to the game cabinet. Plug game power cord into the wall.

Setup is complete if the game is visible on the screen. Perform assembly checks.

The manufacturers recommended coin setting is setting #18.

Move the machine to the installation position. Adjust all of the leg adjusters to make contact with the floor. By using a wrench, make adjustments in the height of the leg adjusters to ensure that the machine is level.

After making adjustments, fasten the leg adjuster nut upwards to secure the height of the leg adjuster. To test game settings, press the test button located on the service panel. Refer to the owners manual for further details.



	CPUROM	TEST		
9000	(CROKES SAME)	₽C,	1	1.86
0000	(CROMOT BANK)	₽C.	2	346
0000	(CROMOL BANK)	SC.	3	244
0000	(CNONIOS BAHNS	IC.	4	201
0000	(CROS41) BANK)	KC.	1	set
0000	(CROSS)2 BARK)	IC.	٠	##F
GOOD	(CROMES BANKS)	IC.	,	151
6000	(CROSS SE BARK)	ic		104
0009	(CROMIS BANK)	HC.	į	86b
0000	(CROSISS BANK)	IC.	10	ent-
9000	(CROM3) BANK)	IC.	**	SHA
0000	(CROMING BANK)	IC.	12	105
0000	(CROMES BANK)	K	13	666
6000	(CROM32 BANK)	IC.	14	18h
0000	(CROM) L BANK)	IC.	15	8516
0000	(CROMIS BANK)	IC.	16	10h
0000	(CROM3)	EC.	17	104
0000	(CROM3)	9C.	+4	486
0000	(CROMI)	HC.	19	2016
0000	rCRObios	KC.	20	106

IMPUT TEST
PLAYER IP 3P

FURCH : OFF OFF

KICK : OFF OFF

GUARD : OFF OFF

GUARD : OFF OFF

LEFT : OFF OFF

RIGHT : OFF OFF

START : OFF OFF

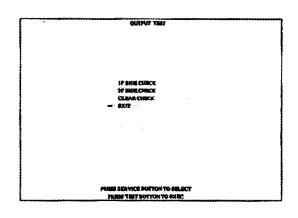
CON CHUTE!! OFF

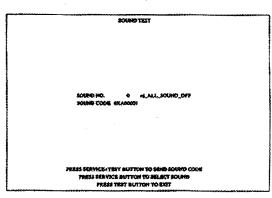
SERVICE : OFF

PRESS SERVICEATEST BUTTON TO EXIT

1. Memory Test
Selecting the Memory Test on the test
mode menu screen causes the onboard memory to be tested automatically. The game board is satisfactory if
the display beside each IC number
shows GOOD.

2. Input Test
Selecting the Input Test on the test mode menu screen causes the screen (on which each switch is tested) to be displayed. Press each switch. For the coin switch test, insert a coin from the coin inlet with the coin chute door open. If the display beside each switch indicates ON, the switch and wiring connections are satisfactory.





3. Output Test In the Output Test mode, carry out the lamp test to ascertain that each lamp lights up satisfactorily.

4. Sound Test

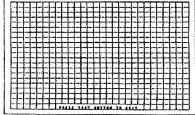
In the Test mode, selecting Sound Test causes the screen (on which sound-related board and wiring connections are tested) to be displayed.

Be sure to check if the sound is satisfactorily emitted from each speaker and the sound volume is appropriate.



5. C.R.T. Test

In the Test mode menu, selecting C.R.T. Test allows the screen (on which the monitor is tested) to be displayed. Although the monitor adjustments have been made at the time of shipment from the factory, color deviation, etc. may occur due to the effect caused by geomagnetism, the location building's steel frames and other game machines on the periphery. By watching the test mode screen, decide whether an adjustment is needed. If it is necessary, adjust the monitor by referring to the Monitor Adjustments section.



### SEGA

SEGA ENTERPRISES, INC. (USA) 45133 Industrial Drive Fremont, CA 94538 415-802-1750 Phone 415-802-1754 Fax