namco America Inc.

TEKKEN TAG TOURNAMENT™

Operation Manual

INTRODUCTION

Thank you very much for purchasing TEKKEN TAG TOURNAMENT PC BOARD KIT (hereafter called "this product").

This operation manual explains the following:

- Installing and connecting this product to a general-purpose game cabinet (hereafter called "cabinet") safely,
- Adjusting this product for operation safely,
- Operating this product safely,
- Inspecting, cleaning, troubleshooting this product safely,
- Dismounting, safekeeping, and transporting this product safely,
- Disposing this product safely,
- Making full use of the efficiency of this product to operate it right.

Reference for this product and/or for repair:

Contact your distributor to make inquiries about this product and/or about repair.

1. SAFETY PRECAUTIONS ▪ Be sure to **read this part for safe use** ▪

To the owner:

● When the owner of this product entrusts the other person(s) to install this product on the cabinet, to connect, to adjust for operation, to operate, to inspect, to clean, to troubleshoot, to disassemble. to keep, to transport and to dispose, direct such a person(s) to read the applicable part of this manual before conducting the task and to observe the instructions.

● When reselling this product, always attach this operation manual to the PC Board.

l-l Level of Danger

In this operation manual, the matters that require attention are classified as follows according to the level of the danger:

⚠ **WARNING:** Players and/or technicians can be killed or seriously injured if such danger cannot be avoided.

⚠ **CAUTION:** Players and/or technicians can be slightly injured if such danger cannot be avoided.

T'he matters that require attention not concerning safety but functions shall be indicated with the mark below.

◖ **NOTE** : The notices concerning the functions and protection of the product.

1-2 Readers of this operation manual

This operation manual is written for staff of a location operating amusement game machines. But the part noted with "To be serviced by a qualified service technician only" on the Table of Contents and on the title of each chapter is written especially for a qualified service technician. Such a task should be conducted only by a qualified service technician who would fit the following requirements.

A qualified service technician :

A person who works for designing, manufacturing, inspecting, and maintenance servicing at an amusement machine (AM) manufacturer, and a person who has technical knowledge of electrical engineering, electronics, and mechanical engineering equivalent to a graduate of a technical high school or more, and conducts maintenance services (repair) of an AM equipment on a daily basis.

1-3 Safety Precautions

1-3-1 General Safety Precautions

⚠️ **WARNING**

● Do not dismount nor modify this product. Do not conduct any works not described in this operation manual. Otherwise an electrical shock or fire may occur.

● This product is designed for indoor use only. Do not install, connect, or operate this product outdoors. It may cause a fire or electrical shock.

● Be sure to use the replacement parts specified by Namco Ltd. Using substitute parts may cause a fire or electrical shock. Contact your distributor to order parts. The replacement parts are listed under "11. Replacement Parts List" on p.56.

● Do not perform any works with wet hands. Otherwise it may cause an electrical shock.

● Turn OFF the power switch of the cabinet and unplug the power cord from an electrical outlet before conducting any works such as installation and connection (except transferring the data to be displayed on the Namco-made CYBERLEAD cabinet), inspection, cleaning, troubleshooting, disassembling. Otherwise an electrical shock may happen.

l-3-2 Safety Precautions When Installing and Connecting

⚠️ **WARNING :**

When connecting to the cabinet corresponding to JAMMA standard:

● The power source on the cabinet connected to the JAMMA edge connector should fit the following requirements:

- Voltage allowable error for +5V should be ±5%, Amperage should be 2.5A or more

- Voltage allowable error for +12V should be ±5%, Amperage should be 2A or more

If the power source does not conform to this requirement, it may cause a fire.

When connecting to the cabinet corresponding to JAMMA VIDEO standard (JVS):

● The power source on the cabinet connected to the power cable should fit the following requirements:

- Voltage allowable error for +5V should be ±5%, Amperage should be 2.5A or more

If the power source does not conform to this requirement, it may cause a fire.

l-3-3 Safety Precautions When Operating

⚠ **WARNING :**

● Should any off-flavor or noise occur, turn OFF the power switch of the cabinet immediately and stop operation. Then unplug the power cord from an electrical outlet and contact your distributor. If the machine is kept operating without solving the trouble, it may cause an electrical shock or fire.

● Make sure that installing and connecting were conducted in accordance with the instructions and the procedure specified in this operation manual (Ref. "5. INSTALLING AND CONNECTING" on) before operation. If it is not installed and connected correctly, it may cause a fire, electrical shock or machine trouble.

l-3-4 Safety Precautions When Disposing

⚠ **WARNING :**

● Do not throw this product into a fire. A lithium battery used in this product may blow to cause injury.

● When disposing this product, collect, transport, and scrap it in accordance with law and orders.

● If entrusting others to collect. transport, and scrap this product, hire specialists in each of such work.

TABLE OF CONTENTS

INTORDUCTION

The chapters marked JS are indispensable for installing this product to the cabinets corresponding to the JAMMA standard.

The chapters marked JVS are indispensable for installing this product to the cabinets corresponding to the JAMMA VIDEO standard (JVS).

2. SPECIFICATIONS

Item	Description	
Corresponding Standard	JAMMA standard * 1 JAMMA VIDEO standard (JVS) *2	
Dimension	268mm x 230mm x 30mm	
Weight	580g	
Input power source	[Connected to JAMMA standard terminal] +5V ±5% (2.5A or more) and +12V ±5% (2.0A or more) [Connected to JAMMA VIDEO standard (JVS) terminal] +5V ±5% (2.5A or more)	
Restriction	Indoor use only Temperature : 0°C ▪ 50°C, Humidity : 10% ▪ 85% (no condensation)	
Cabinets applicable to connect	Cabinets corresponding to JAMMA standard Cabinets corresponding to JAMMA VIDEO standard (JVS)	
Direction of the monitor and the monitor signal	Direction of the monitor : Sideways Type of scanning retrace line : non-interlace Synchronizing signal : Switchable to composite / separate *3 Horizontal synchronizing frequency : 15.75kHz Vertical synchronizing frequency : 60.0Hz	
Networked game play	Available only with the cabinets corresponding to JAMMA VIDEO standard (JVS). (Install two cabinets linked with cables. Need one PC board only.)	
Control panel	[Pair control panel (to be used for 2P play in one cabinet)] g-direction joystick 1 x 2 Button switch 5 x 2 Start switch 1 x 2 [Single control panel (to be used for networked play by connecting two cabinets with cables)] Each cabinet should have: 8-direction joystick I Button switch 5 Start switch l	
How to install it on cabinets	Fix to the wooden install board of the cabinet	

*1   JAMMA standard (JAMMA STANDARD: abbreviated as IS)
    Standards on the edge connectors for video game machine PC boards provided by Japan Amusement Machine Manufacturers Association (JAMMA) in 1986

*2   JAMMA VIDEO standard (JAMMA VIDEO STANDARD; abbreviated as JVS)
    Standards on connection between video game machine PC boards and other support devices provided newly by Japan Amusement Machine Manufacturers Association (JAMMA) in 1996

*3   Effective only when installing it on the cabinets corresponding to JAMMA VIDEO standard (JVS)

3. CHECK OF PACKAGE

This product includes the following items:

PRE-KIT A, TEKKEN TAG TOURNAMENT

No.	Part No.	Description	Qty.
1	TT05-08898-00	Assy, Buttons and Joystick	2
2	TT40-08885-00	Decal, Side Panel, Left	
3	TT40-08885-01	Decal, Side Panel, Right	.
4	TT40-08887-00	Decal, "TAG"	2
5	TT40-08888-00	Decal, Marquee	
6	TT40-08889-00	Decal, Control Panel	
7	TT40-08890-00	Decal, "PUNCH"	2
8	TT40-08891-00	Decal, "KICK"	2
9	TT40-08892-00	Decal, "PLAYER 1"	
IO	TT40-08893-00	Decal, "PLAYER 2"	
11	TT40-08894-00	Decal, Tekken Tag Tourn. Logo	2
12	TT40-08899-00	Poster, Game Promo	
13	TT50-08897-00	Harness, JAMMA 56 pin w/tag Includes 48 pin JAMMA	1
14	TT95-08896-00	Cover, Control Panel	.
15	VG05-06607-00	Mounting Feet, PCB w/screws	1 bag of 4
16	VG40-08751-00	Poster, AAMA ratings	1
17	VG44-07943-00	Label, Epileptic Warning	
18	VG46-02653-00	Label, FCC	
19	VG78-05265-00	Assy, Housing and Ferrite Bead	2

PRE-KIT B, TEKJSEN TAG TOURNAMENT

No.	Part No.	Description	Qty.
1	TT03-08884-00	PCB Kit, Tekken Tag Tournament	
2	TT40-08886-00	Card, Game Instructions	
3	TT40-08910-00	Card, Move List	1
4	TT45-08895-00	Manual, Game Kit	1

*NOTES:
- Be sure to check that all items are included.
- If there is something missing, contact your distributor.
. Save the packing materials in case of storage and transportation of this product.

4. COMPONENTS

Option switch

Parts mounted side

Terminal for the JAMMA
edge connector

Soldered side

Terminal for the extended
edge connector

Speaker volume

Connectors for installing to the
cabinet corresponding to
JAMMA VIDEO standard (JVS)
(Ref. p.22 for details)

PC Board

Wire

Extended edge
connector

Mis-insert
preventive key
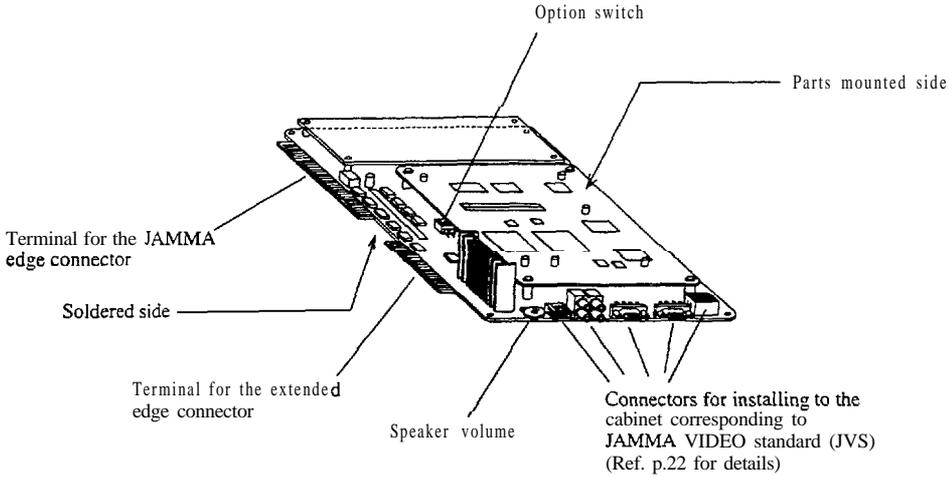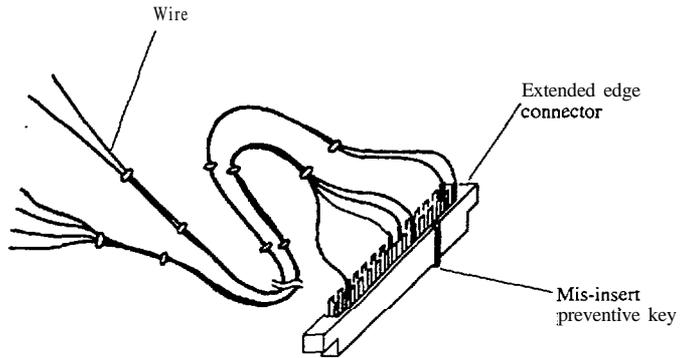
Extended   Edge   Harness

5. INSTALLING AND CONNECTING

⚠️WARNING.:

- Always turn off the power switch of the cabinet and unplug the power cord from an electrical outlet before conducting any work, except the work for "5-4-3 Transferring the data to be displayed on the Namco-made CYBERLEAD cabinet". Otherwise an electrical shock may occur.

- This product is designed for indoor use only. Do not install and connect this product outdoors. It may cause a fire or electrical shock.

◀ NOTES ● A service technician should not be charged electricity when installing and connecting the product. Static electricity may cause this product breakdown or damage.

● Do not attempt to perform conductivity test using a multi-meter. Even an internal voltage of a multi-meter may damage the IC of the PC board.

This product is available for either cabinet, the one corresponding to JAMMA standard, or the one corresponding to JAMMA VIDEO standard (JVS), however, connecting procedure is different each other.

* **Check if your cabinet is applicable** to **this product referring to "2. SPECIFICATIONS" on p.6.**

Chapters in this operation manual corresponding to each standard

Check the standard of your cabinet, and read the following chapters in accordance with that standard.

- ● Connecting to the cabinet corresponding to JAMMA standard:
  Read the chapters "Both for **JS**, **JVS**" on pages 10 - 12, 23, and the chapters "for **JS**" on pages 13 - 19.

- ● Connecting to the cabinet corresponding to JAMMA VIDEO standard (JVS):
  Read the chapters "Both for **JS**, **JVS**" on pages 10 - 12.23, and the chapters "for **JVS**" on pages 20 - 22.
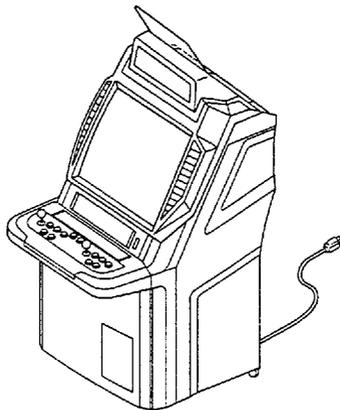
Cabinet

Namco-made CYBERLEAD cabinet, for example

5-1 Before Installing (Both for JS, JVS)

You prepare the necessary items to install this product as follows.

Items needed	Remarks	Reference
Operation manual attached to your cabinet	Check the handling of your cabinet.	
(+) Countersunk head tapping screw (4 pieces) Diameter: one size smaller than the diameter of installation hole on the side of lesslocks which fix lesslocks on the install board. Length: Long enough to fix the lesslocks on the install board but not too long to stick through the install board	Fix the lesslocks on the install board of your cabinet. You may use the furnished ones with your cabinet.	Chapter 5-2 JS, JVS (page 12)
Lesslock (4 pieces) Those which have holes to be installed on the install board and holes to install the PC board	Keep space between the install board and the PC board. You may use the furnished ones with your cabinet.	Chapter 5-2 JS, JVS (page 12)
Pan head machine screw (4 pieces) Diameter: appropriate size for the PC board installation hole (or internal thread) of the lesslock. Length: Not too long to stick through the lesslock when the PC board is fixed. or not too short to tix it on the lesslock. You can adjust the length by using the spacer mentioned below in cases the screws are too long.	Fix the PC board into the lesslocks. You may use the furnished ones with your cabinet.	Chapter 5-2 JS, JVS (page 12)
Spacer (4 pieces) Minor diameter. appropriate size for the screws mentioned above. Length: appropriate sire to adjust the length of the screws above.	Adjust the length of the pan head machine screws when installing the PC board on the lesslocks. Not necessary unless the pan head machine screws are too long. You may use the furnished ones with your cabinet.	Chapter 5-2 JS, JVS (page 12)
Solder or caulking, or crimp-style terminal	Connect wires to micro switches. Please read the referential chapters to check if they are necessary or not.	Chapter 5-3-1 JS (page 13), chapter 5-3-3 JS (page 16). Chapter 5-34 JS (page 17)
Insulating heat contraction tube and a drier for heat contraction tube	Insulate the connection parts of the wires. Please read the referential chapters to check whether they are necessary or not.	Chapter 5-3-1 JS (page 13). Chapter 5-3-3 JS (page 16)
nsulating tape	Insulate the edge of unnecessary wires and connecton. Not necessary when connecting to the cabinet corresponding to JAMMA standard with 2 speakers(stereo specification).	Chapter 5-34 JS (page 17), Chapter 54-2 JVS (page 21)

5-2 Installing the PC Board on the Install Board of the Cabinet (Both for **JS**, **JVS**)

First install the PC board on the install board according to the following procedure.

1. Turn OFF the power switch of the cabinet and unplug the power cord from an electrical outlet.

2. Read the part on "Installation of the PC board" of the operation manual of your cabinet, and open the door of the PC board stooge and take out the PC board install board.

   When setting networked head-to-head play by using two cabinets corresponding to JAMMA VIDEO(JVS), you can use either cabinet.
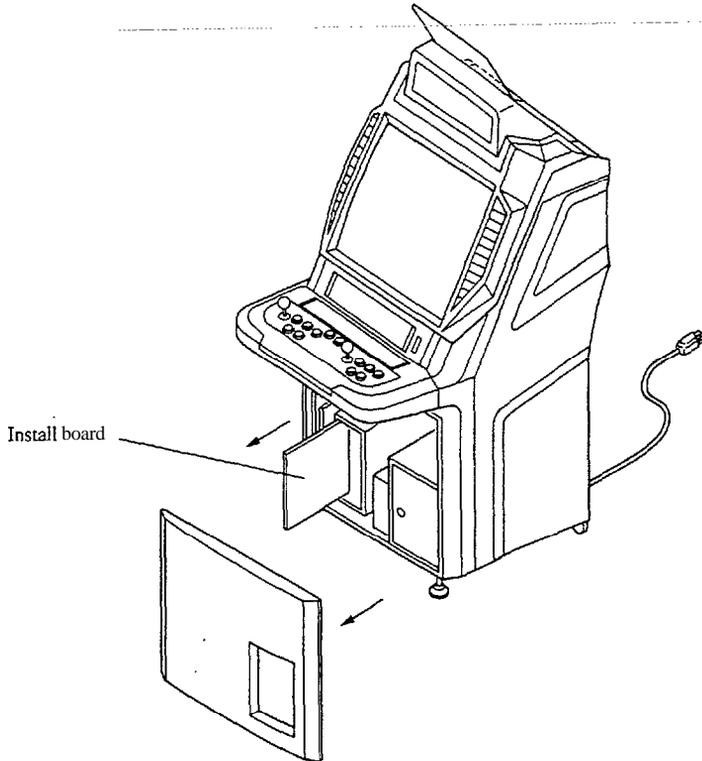
Install board

Namco-made CYBERLEAD cabinet, for example

3. In cases other PC boards are connected, remove them in accordance with the procedure described in the operation manual of your cabinet.

4   Install the PC board at the center of the install board with the countersunk head tapping screws, lesslocks, spacers (unnecessary if the pan head machine screws are not too long) and pan head machine screws, through the four install holes on the PC board.

250mm

208.6mm

Lesslock (4   pieces)'

φ 3.6mm 4 points

Spacer (4 pieces)

Pan head machine screw (4 pieces)

(+) Countersunk head tapping screw (4 pieces)
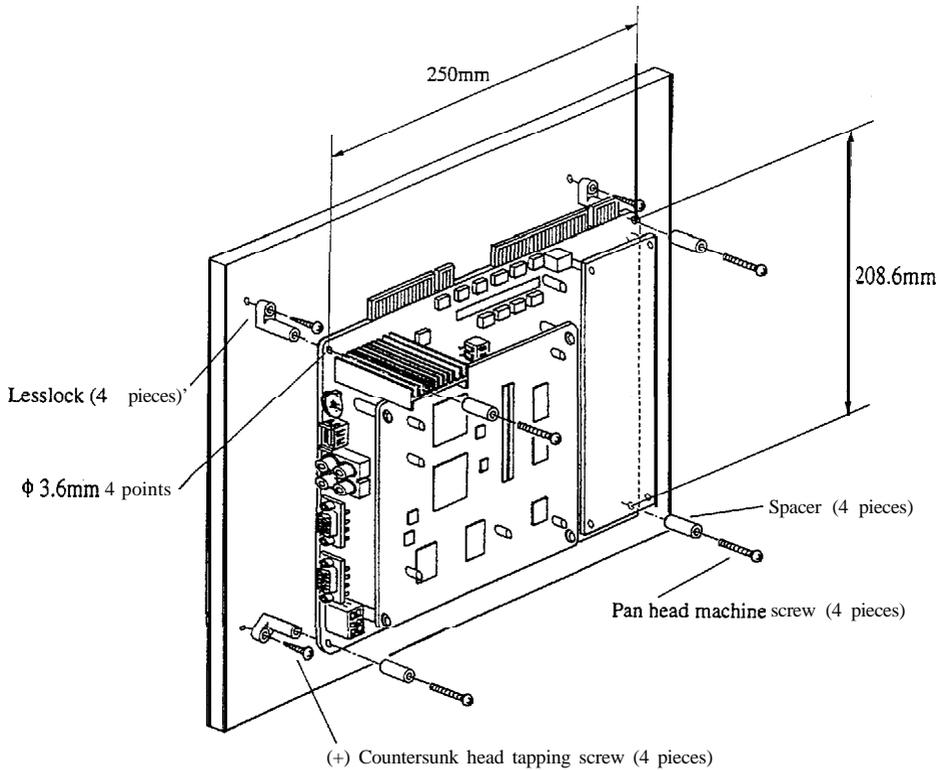
NOTES
● Do not use a metal install plate but a wooden board for installation of the PC board. Otherwise it may be short-circuited and damaged.

● Be sure to use pan head machine screws to install the PC board on lesslocks. Using countersunk head screws when spacers are not needed may break the install holes on the PC board.

● Clean the cabinet with cleaners if it is dirty with dust.

5-3 Connecting to the Cabinets Corresponding to the JAMMA Standard JS

5-3-l Checking the JAMMA Edge Connector JS

Use the JAMMA edge connector attached to the cabinet to connect this product to the cabinet corresponding to the JAMMA standard.

Check if the terminal numbers of the JAMMA edge connector of the cabinet conform to the table of JAMMA edge connectors below. If not, connect wires to that part by soldering or fixing applicable crimp-style terminals.

◀ NOTES ● Apply insulating heat contraction tube on the connecting part to prevent short-circuit.

● - Nothing should be connectedto the blank part of the table below. Otherwise the PC board may break down.

JAMMA Edge Connector (56P 3.96 mm pitch)

Soldered side	Terminal side		Parts mounted side
GND	A	1	GND
GND	B	2	GND
+5V	C	3	+5V
+5V	D	4	+5V
	E	5	
+12V	F	6	+12V
Mis-insert preventive key	H	7	Mis-insert preventive key
Cain counter 2	J	8	Coin counter 1
	K	9	
Speaker (-)	L	10	Speaker (+)
Audio (GND)	M	11	Audio (+)
Video (GREEN)	N	12	Video (RED)
Video (SYNC)	P	13	Video (BLUE)
Service switch	R	14	Video (GND)
	S	15	Test switch
Coin switch 2	T	16	Coin switch 1
P2 start switch	U	17	P1 start switch
P2 joystick (UP)	V	18	P1 joystick (UP)
P2 joystick (DOWN)	W	19	P1 joystick (DOWN)
P2 joystick (LEFT)	X	20	P1 joystick (LEFT)
P2 joystick (RIGHT)	Y	21	P1 joystick (RIGHT)
P2 button switch 1	Z	22	P1 button switch 1
P2 button switch 2	a	23	P1 button switch 2
P2 button switch 3	b	24	P1 button switch 3
	c	25	
	d	26	
GND	e	27	GND
GND	f	28	GND

2   Check the power source for the cabinet connecting to the JAMMA edge connector and voltage of the power source for the coin counter of the cabinet.

⚠ WARNING :

- The power source on the cabinet connected to the JAMMA edge connector should fit the following requirements:

  ▪ Voltage allowable error for +5V should be ±5%, Amperage should be 2.5A or more

  ▪ Voltage allowable error for +12V should be ±5%, Amperage should be 2A or more

  If the power source does not conform to this requirement, it may cause a fire.

◀ NOTE ● Voltage of the power source for the coin counter of the cabinet should be +12V or +5V. If higher voltage is used, PC board may malfunction.

5-3-2 Checking the Extended Edge Connector JS

To connect this product to the cabinet corresponding to the JAMMA standard, use the extended edge connector attached to this product.

Check if the terminal numbers of the extended edge connector conform to the following table.

*   The extended edge connector shall not be used when installing the product to the cabinet corresponding to the JAMMA VIDEO standard (JVS).

◀ NOTE ● Nothing should be connected to the blank parts of the table. Otherwise the PC board may break down.

Extended Edge Connector (48P 2.54 mm pitch)

| Soldered side	Terminal side		Parts mounted side
Speaker R (-) (yellow)	A1	B1	Speaker R (+) (orange)
	A2	B2	
	A3	B3	
	A4	B4	
Mis-insert preventive key	A5	B5	Mis-insert preventive key
	A6	B6	
	A7	B7	
P2 button switch 4 (white/blue)	A8	B8	P2 button switch 5 (white/purple)
	A9	B9	GND (black)
	A10	B10	GND (black)
	A11	B11	
	A12	B12	
	A13	B13	
	A14	B14	
	A15	B15	
	A16	B16	
	A17	B17	
	A18	B18	
	A19	B19	P1 button switch 5 (purple)
PI button switch 4 (blue)	A20	B20	
	A21	B21	
	A22	B22	
	A23	B23	
	A24	B24	

5-3-3 Connecting to the Control Panel JS

This product has to be connected to the control panel (see below) described in the chapter "2. SPECIFICATIONS" (on p.6) to use.
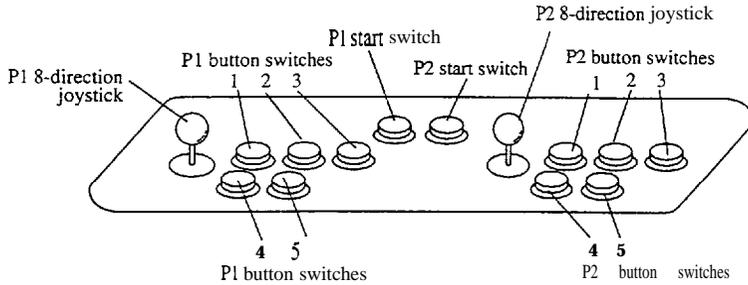
1   Turn the power of the cabinet OFF and unplug the power cord from an electrical outlet.

2   Remove the control panel in accordance with the instmctions on "control panel" described in the operation manual of your cabinet.
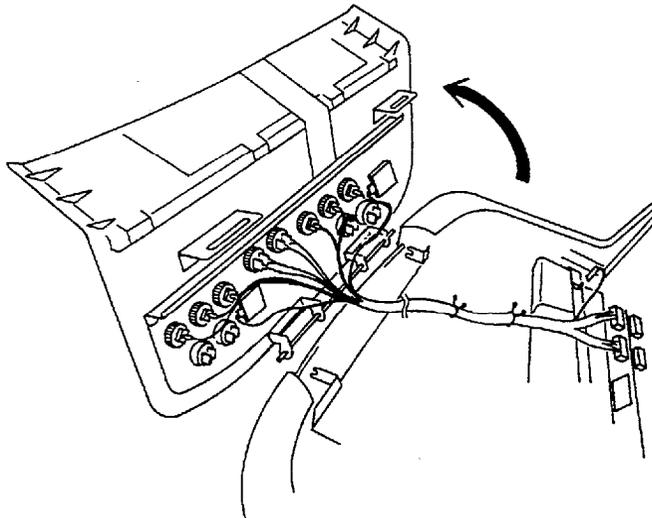
3   If the control panel of your cabinet is different from the above drawing, refer to the operation manual of your cabinet and replace the control panel or add/reduce button switches. If some switches are reduced, be sure to fill up the switch holes with hole caps.

4   Connect the wires of the extended edge harness on the following table to the terminals of PI button switch 4,5,6 and P2 button switch 4,5,6 on the control panel by soldering or fixing an applicable crimp-style terminal.

Soldered side	Terminal side		Parts mounted side
P2 button switch 4 (white/blue)	A8	B8	P2 button switch 5 (white/purple)
	A19	B9	GND (black)
P1 button switch 4 (blue)	A20	B10	GND (black)
		B13	
		B19	P1 button switch 5 (purple)
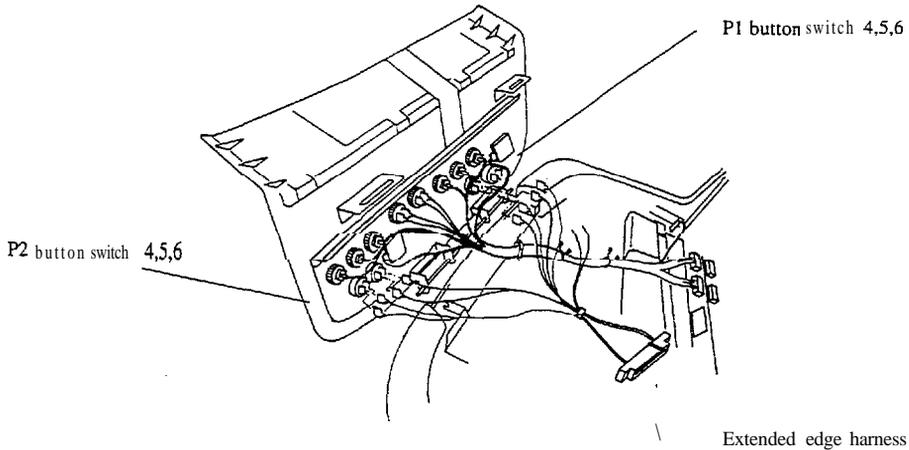
P1 button switch 4,5,6

P2 button switch 4,5,6

\   Extended edge harness

──────── &WARNING: ────────

● Always use the extended edge harness specified by Namco Ltd. Otherwise it may cause a fire or electrical shock. Contact your distributor to order parts. Refer to "11. REPLACEMENTPARTS LIST," on pp.56 for details of the replacement parts.

◀NOTES▶ insulating heat contraction tube on the connecting part to prevent short-circuit.

● In case the button switch is three-terminal, the input terminal (wires with the terminal number A8,A9, A20,B8,B13,B19) of the extended edge harness should be connected to the N.O. terminal of the button switch. GND of the extended edge harness (wires with the terminal number B9, B10) should be connected to the COM terminal of the button switch.

In case the button switch is two-terminal, these can be connected to either terminal.

5   Install the control panel on the cabinet.

5-3-4 Connecting to the Speaker JS

Connect the product to the speaker(s) of your cabinet **in** the following procedure so that the cabinet outputs the sound.

First check whether your cabinet has one speaker (monaural) or two speakers (stereo).

- **One speaker (monaural)**

  l   Turn OFF the power switch of the cabinet and unplug the power cord from an electrical outlet,

  2   Conduct a **measure** to prevent short-circuit, for instance, **wrap** the edge of the unused wire **(Al, B 1)** of the extended edge harness with insulating tape.

  3   After completing all the following connection, switch to "MONAURAL" in the test mode (Ref. "6-4 SOUND TEST' p.37).

     · "5-2 Installing the PC Board on the Install Board of the Cabinet (p.ll)

     • "5-3-l Checking the JAMMA Edge Connector (p.13)

     • "5-3-2 Checking the Extended Edge Connector (p.14)

     • "5-3-3 Connecting to the Control Panel (p.15)

     • "5-3-5 Connecting to the Connectors (p.18)

     * **This product is set as stereo spec. as the factory-setting. When used as stereo spec. with the cabinet of the monaural spec., only the left speaker outputs the sound.**

- **Two speakers**

  l   Turn OFF the power switch of the cabinet and unplug the power cord from an electrical outlet.

  2   Connect the wires of the terminals Al and B 1 of the extended edge harness to the right side (R) speaker by soldering or fixing an applicable crimp-style terminal in accordance with the following table.

⚠ **WARNING :**

● Always use the extended edge harness specified by Namco Ltd. Otherwise it may cause a fire or electrical shock. Contact your distributor to order parts. Refer to "11. REPLACEMENT PARTS LIST' on p.56 for details of the replacement parts.


Soldered side	Terminal side		Parts mounted side
Speaker R (-) (yellow)	Al	B1	Speaker R (+) (orange)

5-3-5 Connecting to the connectors 🔲 JS

1   Turn OFF the power switch of the cabinet and unplug the power cord from an electrical outlet.

2   Connect the JAMMA edge connector attached to the cabinet and the extended edge connector in the direction shown below so that the mis-insert preventive key would fit the notch of the connector slot of the PC board.

◖ NOTE ● Do not connect the JAMMA edge connector reverse or shifted slightly. The cabinet and PC board may break down.

Mis-insert preventive key

Mb-insert preventive key
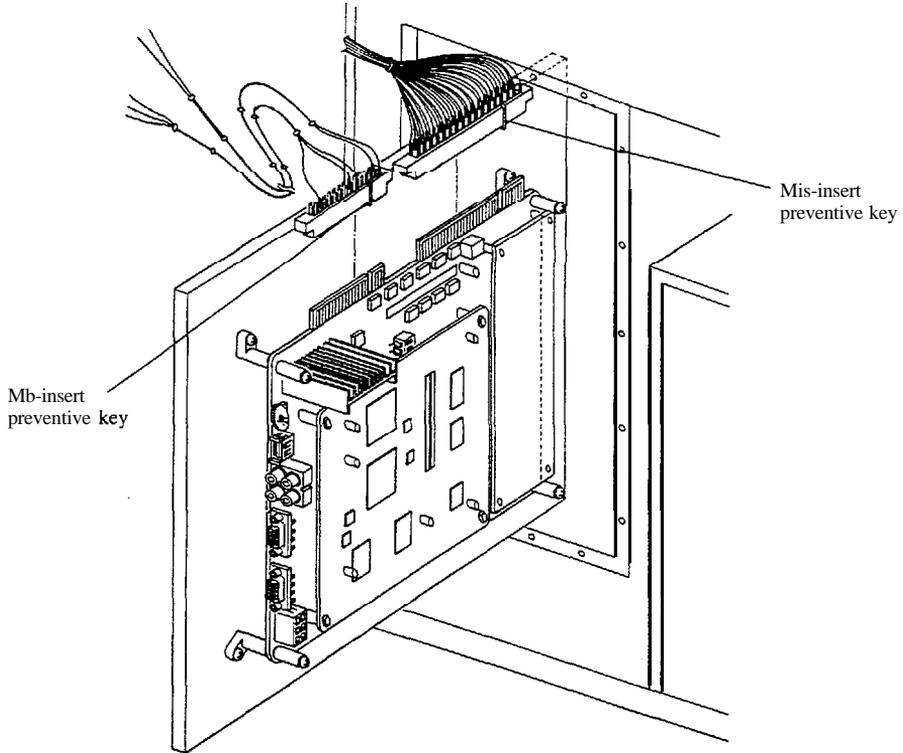
3 Put the PC board installed on the install board into the cabinet

❮NOTES❯ ● Be sure to fix the install board to the cabinet. If not, it may break down due to vibration.

● Be careful that the PC board does not touch any harnesses or cables after being put inside the cabinet. If it is kept operating with touching to any of them, it may break down.
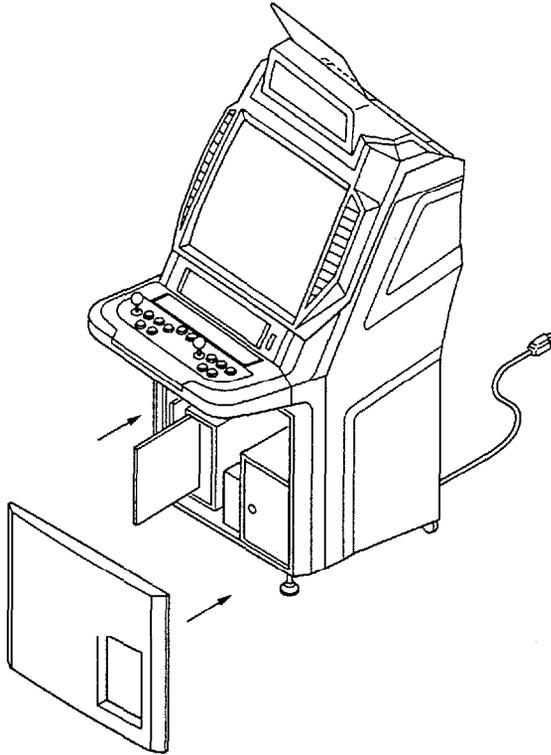
5-4 Connecting the Product to the Cabinet Corresponding to JAMMA VIDEO Standard (JVS) JVS

The explanation on connection to the cabinet corresponding to the JAMMA VIDEO standard (JVS) and on transfer of the data to be displayed on the Namco-made CYBERLEAD cabinet is given here.

First, perform the procedure of "5-2 Installing the PC Board on the Install Board of the Cabinet" (on p.11). When two cabinets are linked with cables for networked head-to-head play, the PC board can be installed to either cabinet.

5-4-1 Connecting to the Control Panel JVS

This product has to be connected to the control panel (see below) described in the chapter "2. SPECIFICATIONS" (on p.6).


Pair control panel (two persons can play in one cabinet)
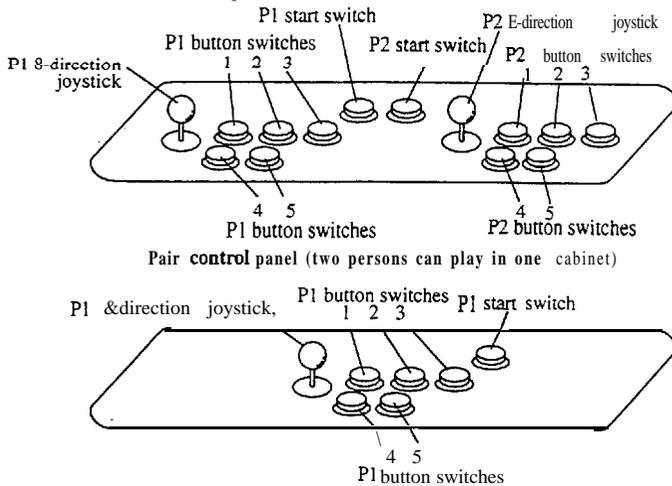
Single control panel
(players can play networked head-to-head play by connecting two cabinets with cables)

Note: The figure above shows the control panel of the cabinet on which the PC board shall be installed. The joystick and the switches on the control panel on the cabinet that the PC board is not installed shall be for P-2.

The name of each joystick and switch in the figure above corresponds to general name of the control panel connecting terminal (attached to the cabinet) of the cabinet corresponding to the JAMMA VIDEO (JVS) standard as follows.

For P1 side		For P2 side	
Name of joystick and switch in the figures above	Name of the control panel connecting terminal of the cabinet corresponding to JVS	Name of joystick and switch in the figures above	Name of the control panel connecting terminal of the cabinet corresponding to JVS
P1 start switch	1p_START	P2 start switch	2P_START
P1 8-direction joystick (up)	1P_UP	P2 8-direction joystick (up)	2P_UP
P1 8-direction joystick (down)	1P_DOWN	P2 8-direction joystick (down)	2P_DOWN
P1 8-direction joystick (left)	1P_LEFT	P2 8-direction joystick (left)	2P_LEFT
P1 8-direction joystick (right)	1P_RIGHT	P2 8-direction joystick (right)	2P_RIGHT
P1 button switch 1	1P_PUSH1	P2 button switch 1	2P_PUSH1
P1 button switch 2	1P_PUSH2	P2 button switch 2	2P_PUSH2
P1 button switch 3	1P_PUSH3	P2 button switch 3	2P_PUSH3
P1 button switch 4	1P_PUSH4	P2 button switch 4	2P_PUSH4
P1 button switch 5	1P_PUSH5	P2 button switch 5	2P_PUSH5

1　Turn the power switch of the cabinet OFF and unplug the power cord from an electrical outlet.

2　In cases that the control panel of your cabinet is different from the figure in the previous page, replace the control panel or add/reduce button switches. If some switches are reduced, be sure to fill up the switch holes with hole caps.

3　Check if each joystick and switch of the control panel is appropriately connected to each control panel connecting terminal on the cabinet with reference to the figure in the previous page and the operation manual of your cabinet.

Control panel

Control panel connecting terminal
attached on the cabinet
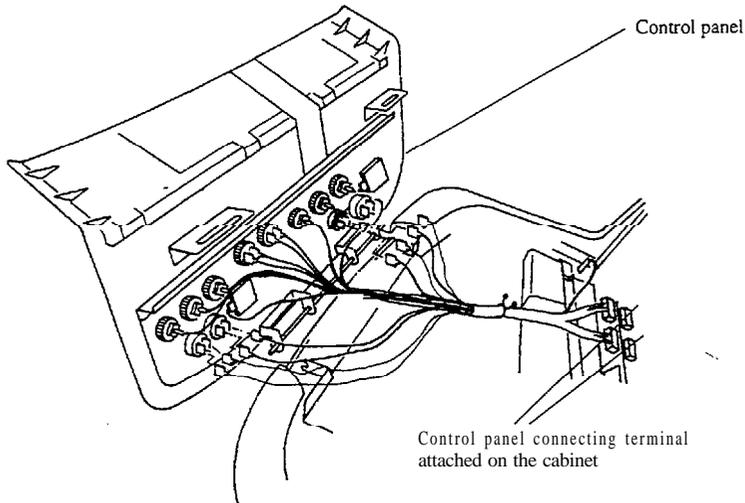
◄ NOTE ● In case the button switch is three-terminal, the input terminal (such as 1P_PUSH1) of the control panel connecting terminal should be connected to the N.O. terminal of the button switch. GND of the control panel connecting terminal should be connected to the COM terminal of the button switch.

In case the button switch is two-terminal, these can be connected to either terminal.

5-4-2 Connection of Cables JVS

● The power source on the cabinet connected to the power cable should fit the following requirements:

▪ Voltage allowable error for +5V should be ±5%, Amperage should be 2.5A or more

If the power source does not conform to this requirement, it may cause a fire.

1　Turn the power switch of the cabinet OFF and unplug the power cord from the electrical outlet.

2   Connect the cables of the cabinet to the corresponding connectors of the PC board as the figure below.

Standard I/O cable

Audio cable
  • Connect the one printed "red" or "R" to either of the red terminals
  • Connect the one printed "white" or "L" to either of the white terminals

Power cable

Video-cable
  • Able to be connected to either terminals. If there are two video cables, connect both cables to the terminals (either).
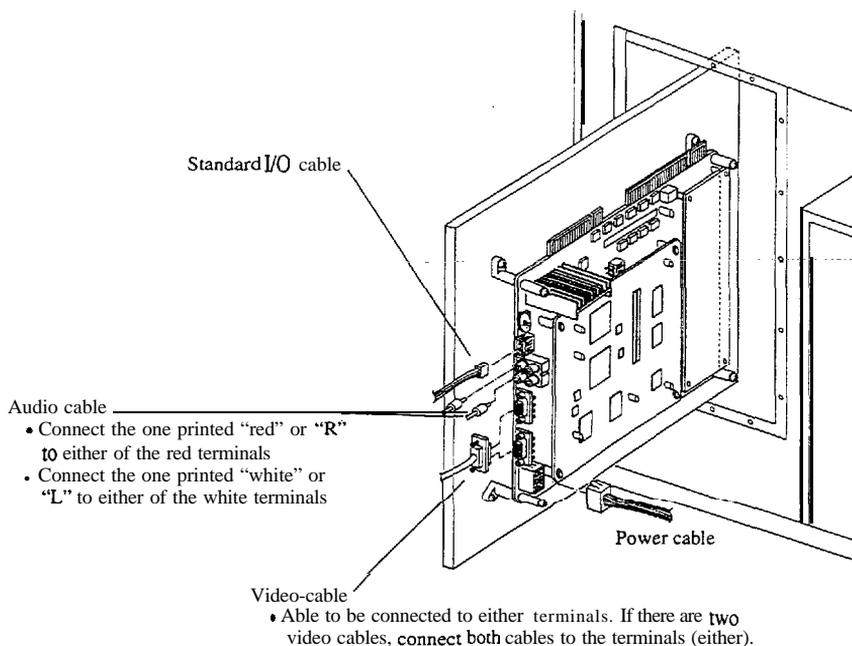
3   Prevent short-circuit by wrapping insulating tapes around unnecessary connectors of the cabinet.

4   Put the PC board into the cabinet.

◄ NOTES   ● Fix the install board on the cabinet. Otherwise, vibration may cause a breakdown.

             ● Be careful that the PC board does not touch any harnesses or cables after being put inside the cabinet. If it is kept operating with touching to any of them, it may break down.
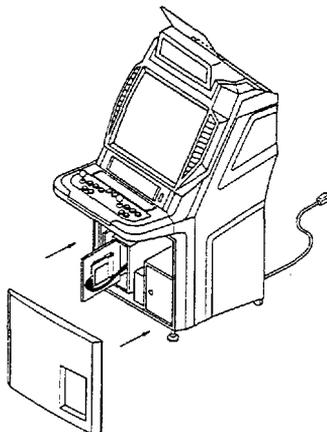
5-5 Pasting the Stickers (Both for JS, JVS)

Paste the stickers included in the package on the cabinet and install it.

Title sheet

A sticker

B   sticker
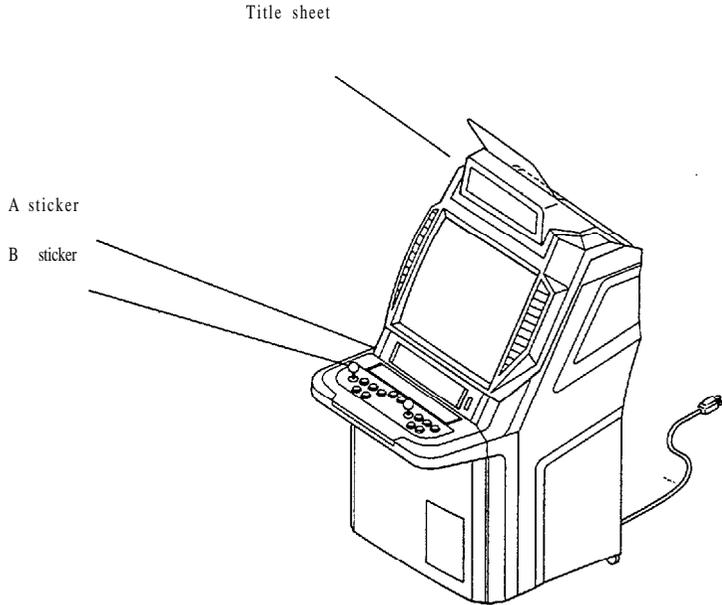
Namco-made CYBERLEAD cabinet, for example

Put together the POP referring to the attached operation manual, and place it appropriately.

6. ADJUSTMENT FOR OPERATION

The cabinet needs to be conducted adjustment for operation (setting or altering) in order to operate SOULCALIBUR game.

The following items can be adjusted.

Item	Reference
Check/adjustment of the display	6-2 Display Test (p.28)
Testing switches connected to PC board	6-3 Switch Test (p.34)
Testing sound output and setting speakers	6-4 Sound Test (p.35)
Setting of VIDEO SYNC on the cabinet corresponding to JAMMA VIDEO standard (NS)	6-5 JVS Cabinet Options (p.36)
Setting of the game options	6-6 Game Options (p.38)
Setting of play fees	6-7 Coin Options (p.39)
Actual play data	6-8 A.D.S. (p.42)
Clear the data	6-9 Data Clear (p.42)

Use the adjustment switches on the PC board and the switches on the control panel of the cabinet to make adjustment.

The basic knowledge of the various adjustment switches and the adjusting procedures necessary for operation shall be explained here.

6-1 The Basic Knowledge of the Adjustment

NOTE ● A service technician should not be charged electricity when touching the PC board. Static electricity may cause the product breakdown or damage.

Switches, Knobs

The PC board has a switch and a knob for adjustment, the option switch and speaker volume.

① Option switch

., No.1 shall be used to switch the test mode/game mode.

ON: Test mode
OFF: Game mode

., No.2 shall be not used

◄ NOTE ● These should be OFF when operating the game.

② Speaker volume (knob)

This knob adjusts the volume of the speaker sound of the cabinet.

., Turn to right : Sound volume increases

• Turn to left : Sound volume decreases

* This **speaker volume cannot adjust the sound volume for the cabinet corresponding to the JAMMA VIDEO standard (JVS). The sound volume should be adjusted** on **the cabinet.**

① Option switch

② Speaker volume (knob)
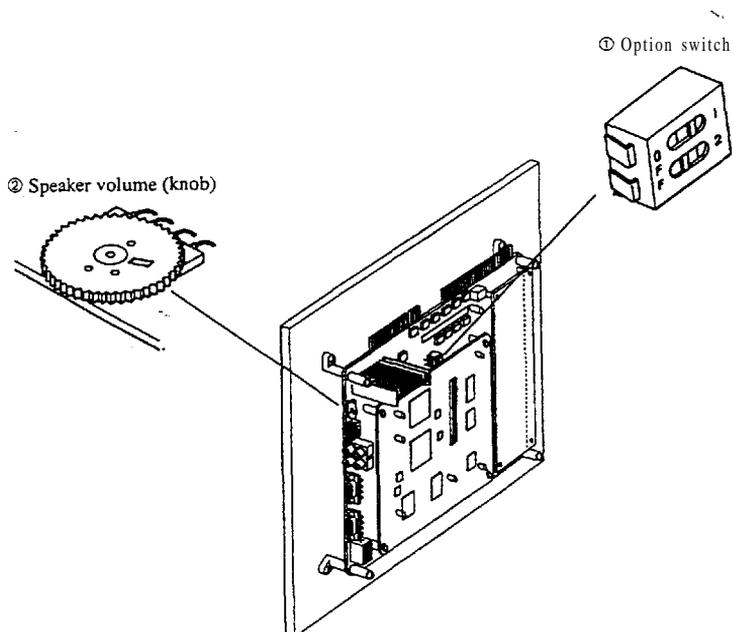
6-l-2   Selecting the Adjusting Items

Display the test menu screen on the test mode to make adjustment.

l   Turn the power switch of the cabinet ON to display the game screen.

2   Turn No.1 option switch (①) ON.
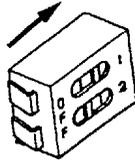
*   Option switch (①) on the PC board and the slide type test switch on the cabinet can make it
enter the test mode only when they are switched from OFF to ON. They cannot make it enter
the test mode even when they are already set ON. In this case, you have to turn it OFF and
then turn it ON again.

It enters the test mode and the test menu screen appears.

*   You may perform the procedure to return to the test menu from each test under "6-2 Display
Test" (p.28) through "6-9 Data Clear" (p.42) to display the test menu.

DISPLAY TEST	Display rest ------ (6-2)
SWITCH TEST	Switch test •------• (6-3)
SOUND TEST	Sound tes ˙------ (6-4)
JVS CABINET OPTIONS	JVS cabinet option ——— (6-5)
GAME OPTIONS	Game option •••••• (6-6)
COIN OPTIONS	Coin option •••••• (6-7)
A.D.S.	Check play data ———(6-8)
DATA CLEAR	Data clear ------ (6-9)
EXIT & SAVE	Finishing the test mode ------ (6-l-3)

3   Hit the P1 S-direction joystick up or down to turn the item to be adjusted in red referring to "6-2 Display Test" (p.28) through "6-9 Data Clear" (p.42).
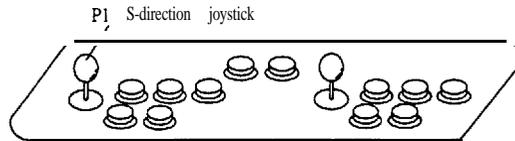
P1 S-direction joystick

Note: The above figure shows the pair control panel. In case of the single control panel (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are linked for networked head-to-head play), the control panel of the cabinet on which the PC board is installed shall be called as P 1.

The items to he adjusted can be selected through the following list.

Adjustment	Item to be selected	Reference
Check/adiustment of the display	DISPLAY TEST	p.28
Testing switches connected IO PC board	SWITCH TEST	p.34
Testing sound output and setting speakers	SOUND TEST	p.35
Setting of VIDEO SYNC on the cabinet corresponding to JAMMA VIDEO standard (JVS)	JVS CABINET OPTIONS	p.36
Setting of the game options	GAME OPTIONS	p.38
Setting of play fees	COIN OPTIONS	﹅ p.40
Actual play data	A. D. S	p.42
Clear the data	DATA CLEAR	p.42

4   Press the P1 button switch 1 to select the test screen. The test screen selected is displayed.

*   "JVS CABINET OPTION" cannot be selected when the PC board is connected to the cabinet corresponding to the JAMMA standard. It can be selected only when the PC board is connected to the cabinet corresponding to the JAMMA VIDEO standard (JVS).

P1 button switch
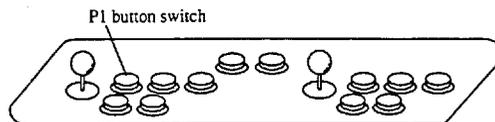
Note: The above figure shows the pair control panel. In case of the single control panel (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are linked for networked head-to-head play), the control panel of the cabinet on which the PC board is installed shall be called as P1.

5   Make adjustment on the test screen selected.

The detailed adjustment procedure shall be explained under each chapter from "6-2 Display Test" (p.28) through "6-9 Data Clear" (p.42).

6-1-3 Finishing the Test Mode

After making adjustment of each item according to "6-2 Display Test" (p.28) through "6-9 Data Clear" (p.42), display the test menu screen.

1   Hit the P1 S-direction joystick up or down to turn "EXIT & SAVE" in red.

2   Press the P1 button switch 1. The test mode finishes and it returns to the game screen.
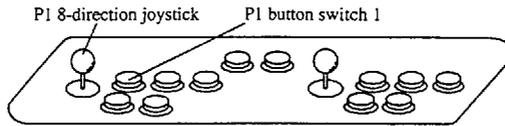
P1 8-direction joystick   P1 button switch 1

Note: The above figure shows the pair control panel. In case of the single control panel
      (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are
      linked for networked head-to-head play), the control panel of the cabinet on which
      the PC board is installed shall be called as P1.

3   Turn No.1 option switch (①) OFF.

      * **In case that the test switch on the cabinet is used, turn that test switch OFF.**
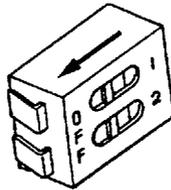
◖ NOTE ● If the test mode is not finished in the above procedure, the adjusted result (setting
                or altering) may not be effective. Always finish the test mode in the above
                procedure. (The test mode cannot be finished only turning the test switch OFF
                without selecting "EXIT & SAVE".)

6-2   Display Test (Check/adjustment of the display)

The following check and adjustment shall be made.

● COLOREDIT
      The shade and tone balance of the picture signal outputted by the PC board shall be checked and
      adjusted.

.   CONVERGENCE
      It is used to check/adjust the size, position, aspect ratio, distortion of the picture.

· COLOR BAR
      It is used to check/adjust the shade and the tone balance of the picture.

Before conducting any of the above, conduct the following "common operation".

6-2-l Common Operation

1   Perform the procedure l . 4 of "6-l-2 Selecting the Adjusting Items" (p.28-29). Select "DISPLAY TEST" in 3.

"Color Edit" screen shall be displayed over the "diagonal" screen as follows.

Color edit screen


```
L CONVERGENCE                    Contrast : OO
                                 Bright R  : OO
                                 Bright G  : OO
                                 Bright B  : OO



        PREVIOUS  VALUE  : P-I  BUTTONS
        EXIT  COLOR  EDIT   : P-I  BUTTON4
        NEXT COLOR TEST : P-1 BUTTON1
        EXIT                       P-1 START
```
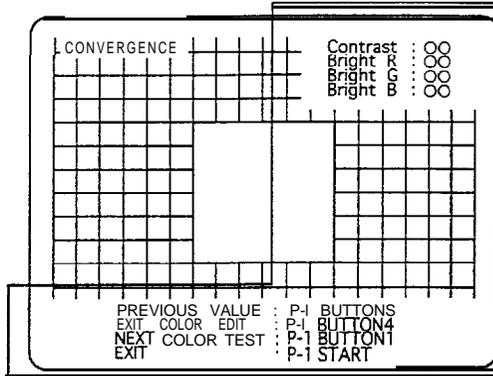
Color edit screen is displayed over the diagonal screen.

*   **Pressing the P1 button switch 4 switches the "color edit" screen displayed/non-displayed.**
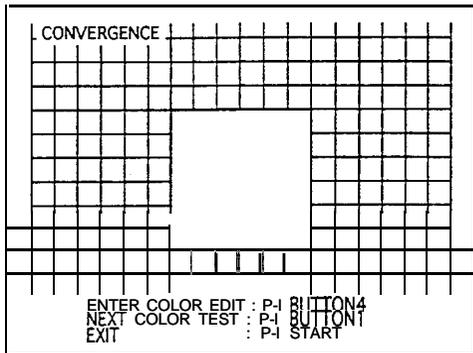

```
L CONVERGENCE





        ENTER COLOR EDIT : P-I BUTTON4      How to enter the color edit mode
        NEXT COLOR TEST : P-I BUTTON1        How to go to the next test pattern
        EXIT                  : P-I START         How to return to the test menu screen
```

The color edit screen is not displayed

2   Press the P1 button switch I to go the other adjustment item.

  *   **Each time you press the switch, it shifts from "CONVERGENCE" -> "COLOR BAR" -> "CONVERGENCE" ...... and its screen is displayed each time.**

P1 button switch 1   P1 start switch

\   P1 button switch 4
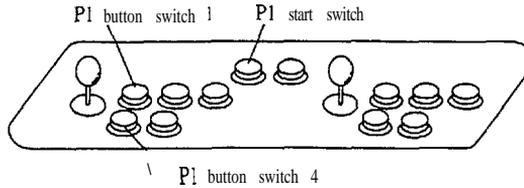
Note: The above figure shows the pair control panel. In case of the single control panel (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are linked for networked head-to-head play), the control panel of the cabinet on which the PC board is installed shall be called as Pl.

3   According to the item to be adjusted, perform the procedure described under "6-2-2 CONVERGENCE" (p.30) through "6-Z-3 COLOR BAR" (p.32).

4   Press the P1 start switch to return to the test menu screen after completing the whole "DISPLAY TEST'. The test menu screen (p.26) is displayed.

5   Perform "6-l-3 Finishing the Test Mode" (p.28) to exit the test mode.

6-2-2   CONVERGENCE (Checking/adjusting the size, position, aspect ratio, ` distortion of the picture)

l   Perform the procedures l and 2 of "6-2-l Common Operation" (p.29) to displayd the "CONVERGENCE"   screen.

  *   If "DISPLAY TEST" screen appears already, common operation l is not needed.

◄ NOTES ● If the "CONVERGENCE" screen is not displayed, keep pressing the P1 button switch 1 until it is displayed.

  *   Each time you press the switch, it shifts from "CONVERGENCE" -> "COLOR BAR" -> "CONVERGENCE" . ...., and its screen is displayed each time.

P1 button switch   l
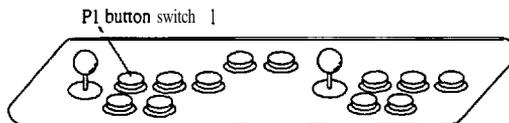
Note: The above figure shows the pair control panel. In case of the single control panel (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are linked for networked head-to-head play), the control panel of the cabinet on which the PC board is installed shall be called as P1.

On the "CONVERGENCE" screen, the following "cross hatch pattern" is displayed.

Cross hatch pattern

How to enter the color edit
How to go to the next test pattern
How to return to the test menu screen
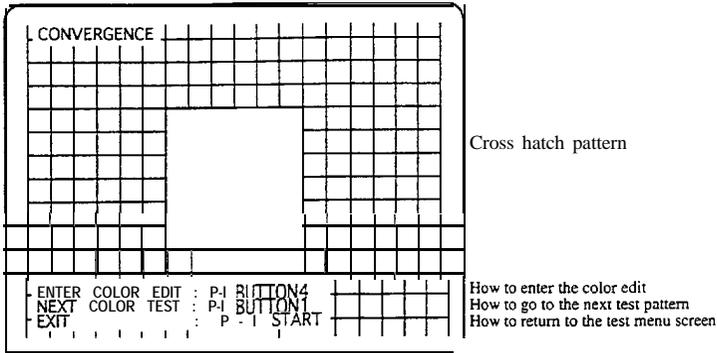
Note: The above shows the screen with the color edit non-displayed. It makes no difference if the color edit is displayed.

2   Press the P1 button switch 2 to check the size, position, aspect ratio, and distortion of the cross hatch pattern on each color.

*   Each time you press the PI button switch 2, the color of the "cross hatch pattern" changes from white -> blue -> red -> purple -> green -> light blue -> yellow -> black -> white ,,,,, in this order.

P1 button switch 2
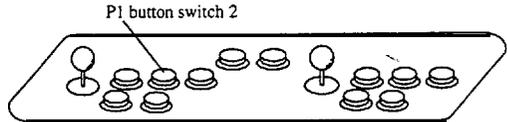
3   When the size, position, aspect ratio of the pattern is not appropriate or distorted, refer to the operation manual of the cabinet or contact the manufacturer of the cabinet to adjust it on the cabinet.

4   Press the P1 start switch to return to the test menu screen after completing the whole "DISPLAY TEST'.

Press the P1 button switch 1 to display the adjusting screen for the other adjustment in the "DISPLAY TEST'.

PI button switch 1   P1 start switch
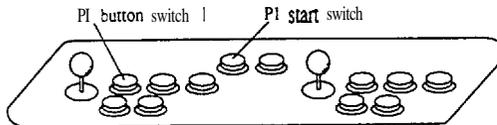
Note: The above figure shows the pair control panel. In case of the single control panel (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are linked for networked head-to-head play), the control panel of the cabinet on which the PC board is installed shall be called as P1.

5   Perform "6-1-3 Finishing the Test Mode" (p.28) to exit the test mode.

6-2-3 COLOR EDIT, COLOR BAR (Adjustment of the shade and tone balance of the picture signal outputted by the PC board)

1 Perform the procedures 1 and 2 of "6-2-l Common Operation" (p.29) to display the "Color Edit" screen over the 'Color Bar' screen.

   * If "DISPLAY TEST" screen appears already, common operation 1 is not needed.

In the "Color Bar", the following screen appears.

   * Each color bar of "white" "red" "green" "blue" is displayed with gradual shading. Press the P1 button switch 2 to change the shade and tone of the color from 32 -> 16 -> 8 -> 4 -> 2 -> 32 . . . „, in this order.
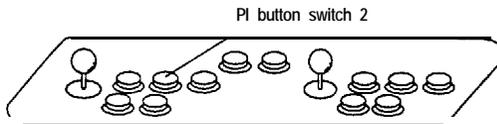
PI button switch 2

Note: The above figureshows the pair control panel. In case of the single control panel (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are linked for networked head-to-head play), the **control** panel of the cabinet on which the PC board is installed shall **be** called as PI.


```
COLOR  BAR                Contrast : 00        whole contrast
                          Bright R :           Brightness (red)
                          Bright G :           Brightness (green)
                          Bright B :           Brightness (blue)

                                               Color bar (white)

                                               Color bar (red)

                                               Color bar (green)

                                               Color bar (blue)

PREVIOUS    VALUE  : P-I BUTTON5   How to initialize the value
EXIT  COLOR  EDIT  : P-I BUTTON4   How to finish the color edit
NEXT COLOR TEST : P-I BUTTON1      How to go to the next test pattern
EXIT            : P-I START        How to return to the test menu screen
```
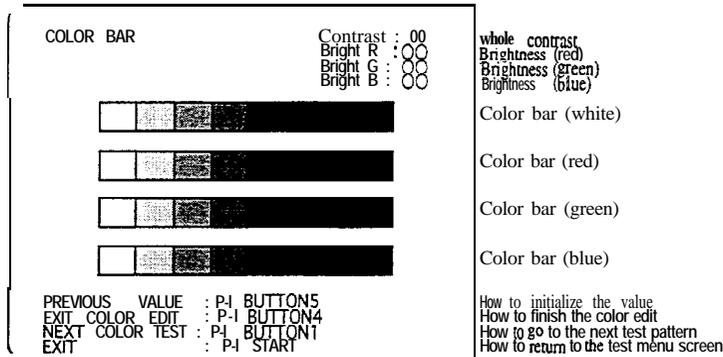
NOTES ● If the "COLOR BAR" screen is not displayed, keep pressing the PI button switch 1 until it is displayed.

   * Each time you press the switch, it shifts from "CONVERGENCE" -> "COLOR BAR" -> "CONVERGENCE" . . . . . . and its screen is displayed each time.

● If the "Color Edit" screen is not displayed, press the P1 button switch 4. The "Color Edit" screen is displayed over the "COLOR BAR" screen.

   * Press the P1 button switch 4 to switch the "Color Edit" screen displayed / non-displayed.

2   Hit the **P1** S-direction joystick to up or down to select the adjusting item out or "Contrast", "Bright **R**", "Bright **G**", and "Bright **B**".
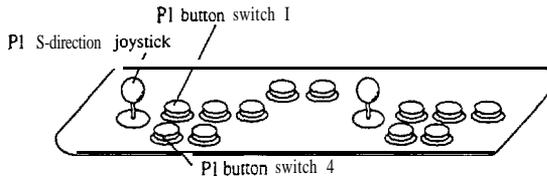

Note: The above figure shows the pair control panel. In case of the single control panel (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are linked for networked head-to-head play), the control panel of the cabinet on which the PC board is installed shall be called as Pi.

3   Hit the **P1** S-direction joystick to right or left to change the setting.

*   The details of-the adjustment is shown in the table below. The result of the adjustment shall he checked on the color bar on the screen.

Item	Description	
Contrast	Adjusting contrast of the picture	
Bright R	Adjusting shade and tone of red color of the picture signal	
Bright G	Adjusting shade and tone of green color of the picture signal	
Bright B	Adjusting sbade and tone of blue color of the picture signal	

*   After changing the setting,

   • To initialize the settings,
      Press the **P1** button switch 5. The changed settings are erased. .

   • To stop adjusting,
      press the **P1** button switch 4. The 'Color Edit" screen disappears and adjustment is suspended.

   • To re-adjust,
      press the **P1** button switch 4 again. The "Color Edit" screen appears again for re-adjustment

4   Press the **P1** start switch to return to the test menu screen after completing the whole "DISPLAY TEST'.

Press the **P1** button switch 1 to display the adjusting screen for the other adjustment in the "DISPLAY TEST'.

5   Perform "6-l-3 Finishing the Test Mode" (p.28) to exit the test mode.
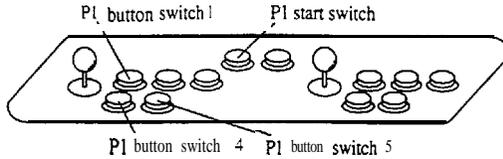
P1 button switch 1   P1 start switch

P1 button switch 4   P1 button switch 5

Note: The above figure shows the pair control panel. In case of the single control panel
(that is, two cabinets corresponding to the JAMMA VIDEO standard (NS) are
linked for networked head-to-head play), the control panel of the cabinet on which
the PC board is installed shall be called as P1.

6-3 SWITCH TEST

Use the SWITCH TEST function to test the switches connected to the PC board such as the buttons
on the control panel.

1   Perform the procedure 1 · 4 of "6-I-2 Selecting the Adjusting Items" (p.28-29). Select
"SWITCH TEST" in 3.

The following screen is displayed.
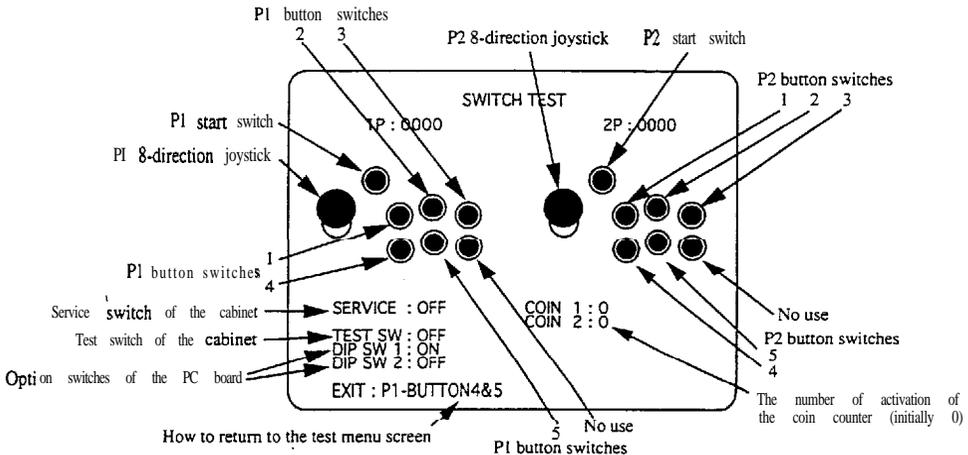
Notes: • The button switches not specified in the above figure shall not be used.
• Ignore displays such as [1P] and [2P]
• The current status shall be displayed under "SERVICE", "TEST SW", "DIP SW
I". "DIP SW 2", "COIN I", "COIN 2". (In case that there is only one coin
counter, 0 shall be displayed under "COIN 2".)

2   Operate each joystick and switch on the control panel one by one.

  *   The joysticks on the screen moves in accordance with the actual moves of "P1 &direction joystick" and "P2 S-direction joystick". The button on the screen is highlighted in white when the actual button switch on the control panel is pressed.

◀ NOTE   ● If the screen does not change in accordance with the operation of the joysticks and the switches on the PC board, the game play cannot be played correctly. Refer to "8-2 TROUBLESHOOTING" (p.48) in that case.

3   Press the P1 button switch 4 and 5 at the same time to return to the test menu screen.
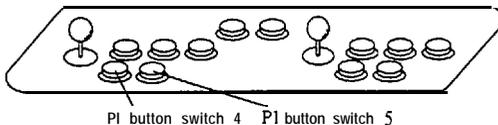

PI button switch 4   P1 button switch 5

Note: The above figure shows the pair control panel. In case of the single control panel (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are linked for networked head-&head play), the control panel of the cabinet on which the PC board is installed shall be called as PI.

4   Perform "6-l-3 Finishing the Test Mode" (p.28) to exit the test mode.

6-4   SOUND TEST (Test/setting of the sound)

Testing of the sound output of the cabinet and the setting of the speakers monaural/stereo shall be made here.

l   Perform the procedure 1 ▪ 4 of "6-l-2 Selecting the Adjusting Items" (p.26-27). Select "SOUND TEST"' in 3. Tdistributor to make inquiries about this product and/or about repair.
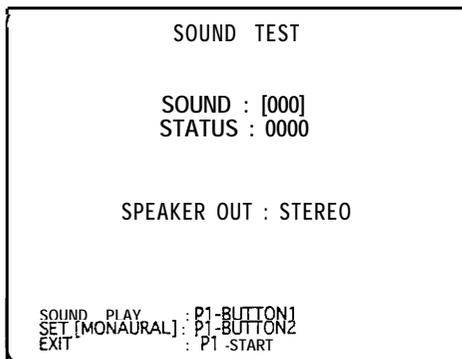

- 35 -

2   Make adjustment according to the description on the table below with the appropriate joystick
      and the switch.

Item	Test/Adjustment	How to operate
Changing tbe sound number	The sound to be used in the game is selected.	Hit the P1 S-direction joystick to right or left to change the number.
Play the sound	The sound of tbe selected number is played.	Press the PI button switch I to play the sound.
Switch monaural/stereo	Monaural sound/stereo sound is switched.	Press the P1 button switch 2 to switch.
Stereo sound test	Stereo sound output is tested.	Select the sound number [001], press the P1 button switch 1. The sound is played from the left speaker, right speaker, and finally both speakers as stereophonic.

◄ NOTE ● If something wrong is found when checking the adjustment, refer to "8-2 TROUBLESHOOTING" on p.48.

3   Press the P1 start switch to return to the test menu screen.
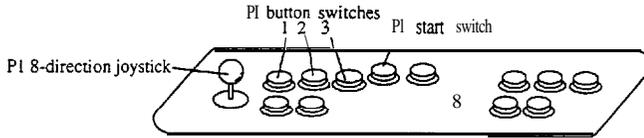
Note: The above figure shows the pair control panel. In case of the single control panel
       (that is, two cabinets corresponding to tbe JAMMA VIDEO standard (JVS) are
       linked for networked head-to-head play), the control panel of the cabinet on which
       the PC board is installed shall be called as P1.

4   Perform "6-l-3 Finishing the Test Mode" (p.28) to exit the test mode.

6-5   JVS CABINET OPTIONS (Setting VIDEO SYNC on the cabinet corresponding to the JAMMA VIDEO standard (JVS)) JVS

VIDEO SYNC setting for the cabinet corresponding to the JAMMA VIDEO standard (JVS) shall be
made.

*   When the PC board is connected to the cabinet corresponding to the JAMMA standard, this
     option is not available even if it is displayed.

l   Perform the procedure l ▪ 4 of "6-I-2 Selecting the Adjusting Items" (p.26-27). Select "JVS
   CABINET OPTIONS" in 3.

     The following screen is displayed.

```
┌─────────────────────────────────────────┐
│         JVS CABINET OPTIONS              │
│        <DEFAULTS  IN  GREEN>             │
│                                          │
│  → VIDEO SYNC: Composite           ── (a)│
│       JAMMA VIDEO STANDARD               │
│             [STEP 1]                     │
│                                          │
│   Main : · · · · · · · · · · · · · · ·   │
│                                          │
│   I/O 1: · · · · · · · · · · · · · · ·   │
│                                          │
│   I/O 2: ┌ · · · · · · · · · · · · · ·   │
│                                          │
│                                          │
│    EXIT   : Pl -START                    │
└─────────────────────────────────────────┘
```
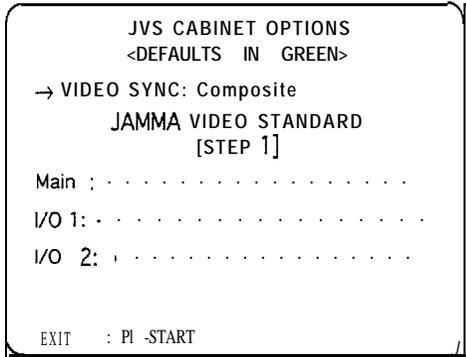
— (a)
Display on the JAMMA VIDEO standard (JVS)

How to return to the test menu screen

2   Hit the Pi S-direction joystick to right.

Each time it is hit, the synchronizing signal output type of the video output, which is displayed under "VIDEO SYNC" (shown as (a) in the above figure), shall be switched to change the setting. (The type shown in the thick frame below is the default setting.)

P1 8-direction joystick
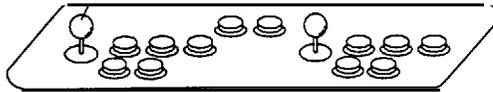
Note: The above figure shows the pair control panel. In case of the single control panel (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are linked for networked head-to-head play), the control panel of the cabinet on which the PC board is installed shall he called as P1.

Synchronizing signal output type of the video output	
Composite (composite synchronization)	Separate (vertical synchronization/horizontal synchronization)

NOTES
- When using the cabinet corresponding to the separate signal, set the 'VIDEO SYNC" as "Separate" for the best picture.

- Namco-made CYBERLEAD cabinet corresponds to the separate signal. But if another monitor display is connected to the line output picture terminal on the back of the cabinet, set the "VIDEO SYNC" as "Composite", because that monitor display may get poor picture under the "Separate" setting.

3   Press the P1 start switch to return to the test menu screen.

PI start switch

Note: The above figure shows the pair control panel. In case of the single control panel (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are linked for networked head-to-head play), the control panel of the cabinet on which the PC board is installed shall be called as PI.

4   Perform "6-l-3 Finishing the Test Mode" (p.28) to exit the test mode.

6-6 GAME OPTIONS (Setting of the game options)

Game options such as the game difficulties shall be set here.

1   Perform the procedure 1 ▪ 4 of "6-l-2 Selecting the Adjusting Items" (p.26-27). Select
"GAME OPTIONS" in 3.

The following screen is displayed.
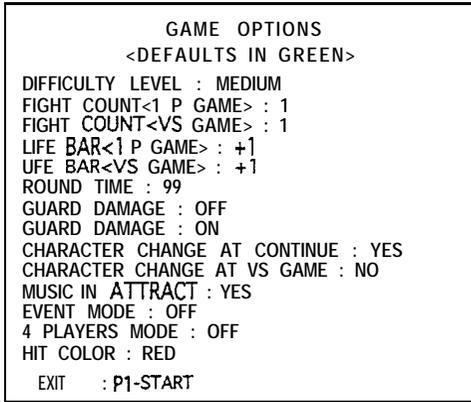
```
                    GAME  OPTIONS
                <DEFAULTS IN GREEN>
(a)   DIFFICULTY  LEVEL  :  MEDIUM
(b)   FIGHT COUNT<1 P GAME>  :  1
(c)   FIGHT COUNT<VS GAME>  :  1
(d)   LIFE BAR<1 P GAME>  :  +1
(e)   UFE BAR<VS GAME>  :  +1
(f)   ROUND  TIME  :  99
(g)   GUARD  DAMAGE  :  OFF
(h)   GUARD  DAMAGE  :  ON
(i)   CHARACTER  CHANGE  AT  CONTINUE  :  YES
(j)   CHARACTER  CHANGE  AT  VS  GAME  :  NO
(k)   MUSIC  IN  ATTRACT  :  YES
(l)   EVENT  MODE  :  OFF
(m)   4 PLAYERS MODE  :  OFF
(n)   HIT  COLOR  :  RED

      EXIT    :  P1-START
```
How to return to the test menu screen

2   Hit the P1 S-direction joystick up
or down to select an item to
change the setting out of (a) ▪ (i)
on the above figure. The selected
item is highlighted in red.
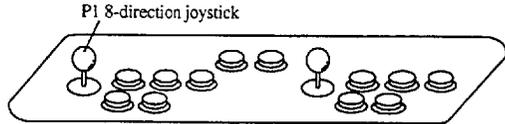
P1 8-direction joystick

Note: The above figure shows the pair control panel. In
case of the single control panel (that is, two cabinets
corresponding to the JAMMA VIDEO standard
(JVS) are linked for networked head-to-head play),
the control panel of the cabinet on which the PC
board is installed shall be called as P1 .

3   Hit the P1 S-direction joystick right or left to change the setting.

The details of the setting of each item are as follows. (The default setting out of factory is
shown by the thick frame here.)

(a) DIFFICULTY LEVEL(Difficulty of the game play)

EASY	MEDIUM	HARD	VERY HARD	ULTRA HARD

(b) FIGHT COUNT< 1 P GAME>(The number of rounds to be cleared to win in 1P play mode)

1	2	3	4	5

(c) FIGHT COUNT<VS GAME>(The number of rounds to be cleared to win in 2P play mode)

1	2	3	4	5

(d) LIFE BAR<1P GAME>(Life gauge in 1P play game)

-2	-1	NORMAL	+I	+2

(e) LIFE BAR<VS GAME>(Life gauge in 2P play game)

-2	-1	NORMAL	+I	+2

(f)ROUND TIME(Time per 1 round[second])

60	70	80	90	99

(g)GUARD DAMAGE(Damage at guard)

ON(a little)	OFF(none)

(h)NEUTRAL GUARD(Guard in the condition that the lever is not be tilted)

ON(exist)	OFF(none)

(i) CHARACTER CHANGE AT CONTINUE(Changing characters at a continued play)

YES(possible)	NO(impossible)

(j)CHARACTER CHANGE AT VS GAME(Changing characters in 2P play when somebody buys-in)

YES(possible)	NO(impossible)

(k) MUSIC IN ATTRACT(Sound played in attract mode)

YES(possible)	NO(impossible)

(1) EVENT MODE(Management after the 2P play is finished)

ON(both of them:game over)	OFF(winner:continue 1P play game)

(m) 4 PLAYERS MODE(4 players control *need 2 JVS cabinets)

ON(4 players)	OFF(2 players)

(n) HIT COLOR(Red display effect at hit)

RED(exist)	GREEN(changed to another color)

4   Press the P1 start switch to return to the test menu screen.
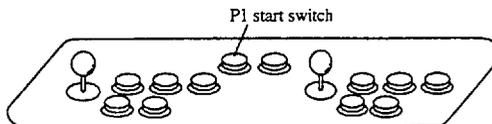
P1 start switch

Note: The above figure shows the pair control panel. In case of the single control panel (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are linked for networked head-to-head play), the control panel of the cabinet on which the PC board is installed shall be called as PI.

5   Perform "6-l-3 Finishing the Test Mode" (p.28) to exit the test mode.

6-7 COIN OPTIONS (Setting of play fees)

Coin options such as the credit needed to play one game play shall be set here.

1   Perform the procedure 1 ▪ 4 of "6-l-2 Selecting the Adjusting Items" (p.26-27). Select "COIN OPTIONS" in 3.

The following screen is displayed.

```
                    COIN   OPTIONS
                 <DEFAULTS  IN  GREEN>

(a)    →  START COST:
              1 COIN TO START
(b)       CONTINUE COST:
              1 COIN TO CONTINUE
(c)       COIN CHUTE1 MECHANICAL VALUE:
              1 COIN COUNT AS 1 COIN
(d)       COIN CHUTE2 MECHANICAL VALUE:
              1 COIN COUNT AS 1 COIN
(e)       CREDIT MODE:
              COMMON
(f)       COIN COUNTER:
              1 COUNTER
(g)       FREE PLAY:
              NO

       EXIT    : P1-START
```
How to return to the test menu screen

2   Hit the P1 S-direction joystick up or down to select an item to change the setting out of(a) ▪ (g) on the above figure. The selected item is highlighted in red.

◀ NOTE ● Before changing the settings of (a) ▪ (f), be sure to set OFF (g) "FREE PLAY". The settings of (a) ▪ (f) cannot be changed if(g) is set ON.

3   Hit the P1 S-direction joystick right or left to change the setting.
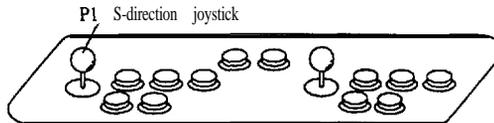
P1 S-direction joystick

Note: The above figure shows the pair control panel. In case of the single control panel (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are linked for networked head-to-head play), the control panel of the cabinet on which the PC board is installed shall be called as Pl.

The details of the setting of each item are as follows. (The default setting out of factory is shown by the thick frame here.)

(a) START COST (The number of coin(s) needed to play an initial game play)

1	2	3	4	5	6	7	8	9

COIN(S) TO START

(b) CONTINUE COST (the number of coin(s) needed to play a continued play)

1	2	3	4	5	6	7	8	9

COIN(S) TO CONTINUE

Note: This value should be the same value as (a)START COST or smaller.

– 40 –

(c) COIN CHUTE I MECHANICAL VALUE

(The number of coin(s) to be added when the coin switch 1 activates once)

1 COINCOUNTAS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COIN

(d) COIN CHUTE 2 MECHANICAL VALUE

(The number of coin(s) to be added when the coin switch 2 activates once)

1 COINCOUNTAS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COIN

(e) CREDIT MODE (Record of credit)

COMMON	EACH ONE
(When either coin switch activates, or either start switch is pressed, these are counted on one common credit.)	(P1 side and P2 side have own credit system; P1 side corresponds to the coin switch 1 and P2 side corresponds to the coin switch 2.)

* When the cabinet which allocates a pair of coin switch and coin counter for each P1 and P2 side is used, the coins counted for P1 and P2 side can be recorded separately by setting (e) CREDIT MODE as "EACH ONE" and (f) COIN COUNTER as "2 COUNTERS".

Notes: • The cabinet corresponding to the JAMMA VIDEO standard (JVS) with one coin counter is fixed to set "COMMON" only and cannot be changed to "EACH ONE".

• When two cabinets corresponding to the JAMMA VIDEO standard (JVS) are linked to set networked play, it is fixed to set "EACH ONE" only and cannot be changed to "COMMON".

◀ NOTE ● When setting the CREDIT MODE as "EACH ONE", make sure that the PC board and the coin switch 2 on the cabinet is connected. Otherwise P2 side cannot accept coins nor play a game.

(f) COIN COUNTER (Allocation of the coin counter)

1 COUNTER	2 COUNTERS
(Two coin switches uses one coin counter in common.)	(Each of two coin switches uses own coin counter.)

Notes: • The cabinet corresponding to the JAMMA VIDEO standard (JVS) with one coin counter is fixed to set "1 COUNTER" and cannot be changed to "2 COUNTERS".

• When two cabinets corresponding to the JAMMA VIDEO standard (JVS) are linked to set networked play, it is fixed to set "2 COUNTERS" and cannot be changed to "1 COUNTER".

(g) FREE PLAY (Setting of free play)

YES (coins needed)	NO (no coins)

4   Press the Pl start switch to return to the test menu screen.
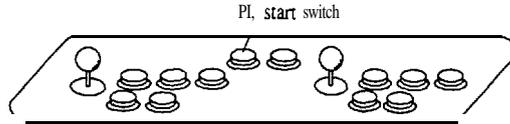
Note: The above figure shows the pair control panel. In case of the single control panel
(that is. two cabinets corresponding to the JAMMA VIDEO standard (JVS) are
linked for networked head-to-head play), the control panel of the cabinet on which
the PC board is installed shall be called as Pl.

5   Perform "6-l-3 Finishing the Test Mode" (p.28) to exit the test mode.

6-8   A.D.S. (Checking the data on playing results in the past)

The data on playing results in the past such as the total playing time can be checked here.

1   Perform the procedure 1 • 4 of "6-l-2 Selecting the Adjusting Items" (p.26-27), Select
"A.D.S." in 3.

2   Press the Pl start switch to return to the test menu screen.
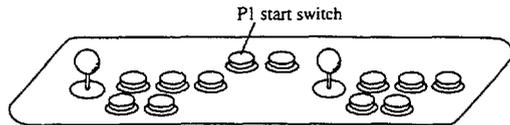
P1 start switch

Note: The above figure shows the pair control panel. In case of the single control panel
(that is, two cabinets corresponding to the JAMMA VIDEO standard (NS) are
linked for networked head-to-head play), the control panel of the cabinet on which
the PC board is installed shall be called as P1.

3   Perform "6-l-3 Finishing the Test Mode" (p.28) to exit the test mode.

6-9   DATA CLEAR (Clearing various data, initializing to default settings)

The data saved even after the power is turned off can be erased or initialized to the default value as
factory-setting. This "DATA CLEAR" function is used to erase the data or initialize it.

1   Perform the procedure 1 ✔ 4 of "6-l-2 Selecting the Adjusting Items" (p.26-27). Select
"DATA CLEAR" in 3.

The following screen is displayed.

```
┌─────────────────────────────────────────┐
│              DATA CLEAR                   │
│                                          │
│ (a) │ CANCEL                 Return to the test menu screen
│                                          │
│ (b) │ A.D.S CLEAR            Clear the playing data only
│                                          │
│ (c) │ RANKING  CLEAR         Initialize the ranking data
│                                          │
│ (d) │ SET  DEFAULTS  ALL  OPTIONS   Set the value of all the options to default
│                                          │
│ (e) │ ALL  CLEAR            Clear all the data recorded
│                                          │
│                                          │
│                                          │
│      EXEC : P1 -BUTTON1      How to execute
│      EXIT : P1 -START        How to return to the test menu
└─────────────────────────────────────────┘
```

2   Hit the P1 8-direction joystick up or down to select an item to erase or initialize the data out of
     (b)   (e) on the above figure. The selected item is highlighted in red.
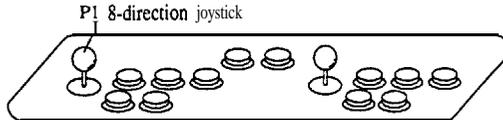
P1 8-direction joystick

Note: The above figure shows the pair control panel. In case of the single control panel
       (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are
       linked for networked head-to-head play), the control panel of the cabinet on which
       the PC board is installed shall be called as P1.

what to be executed	Item displayed on the screen
(1) Erase only the A.D.S. data (Ref. "6-8 A.D.S." on p.42)	A.D.S. CLEAR
(2) Initialize the ranking data. such as straight victories record, to default value as factory-setting.	RANKING CLEAR
(3) ' Initialize the values of all the options set in the test mode (Ref. "6-2 DISPLAY TEST' on p.28 through "6-8 A.D.S." on p.42) to default values as factory-setting.	SET DEFAULTS ALL OPTIONS
(4) Execute all the (1) (2) and (3) together at the same time.	ALL CLEAR

3   Press the P1 button switch 1 to execute the selected item.
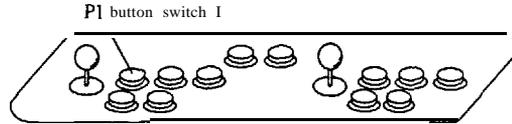
P1 button switch I

Note: The above figure shows the pair control panel. In case of the single control panel
       (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are
       linked for networked head-to-head-play), the control panel of the cabinet on which
   the PC board is installed shall be called as P1.

4   Do either one of the following procedure to return to the test menu screen.

- Press the P1 start switch.

- Hit the P1 S-direction joystick up or down to select "CANCEL" on the screen and then press
the P1 button switch 1.

PI   B-direction   joystick   **P1 start** switch

Note: The above figure shows the pair control panel. In case of the single control panel
       (that is, two cabinets corresponding to the JAMMA VIDEO standard (JVS) are
       linked for networked head-to-head play), the control panel of the cabinet on which
       the PC board is installed shall be called as PI.

5   Perform "6-1-3 Finishing the Test Mode" (p.28) to exit the test mode.

7. OPERATION

7-1 Persons Not Recommended to Play

7-2 Restrictions When Operated

⬛ NOTES ● Observe the restrictions described under "2. SPECIFICATIONS" on p.6. Otherwise it may cause breakdown or malfunction.

● Do not operate this product in areas:

   with direct water contact:
   with high humidity;
- with much dust;
- near heating systems;
   where a drastic change in temperature might cause dew condensation;
- subject to vibration;
   near inflammable or volatile substance;
   near strong magnetism or radio source.

It may cause breakdown or malfunction.

7-3 How to Play

How to play the game and various techniques to be used are printed on A sticker. B sticker, and the title sheet.

8. INSPECTION & CLEANING, TROUBLESHOOTING

▪ To be serviced by a qualified service technician only ▪

8-l Inspection & Cleaning

⚠ **WARNING :**

● Unplug the power cord of the cabinet from an electrical outlet before conducting inspection or cleaning. Otherwise an electrical shock may happen.

● Do not conduct any works with wet hands. It may cause an electrical shock.

Be sure to conduct a regular inspection and cleaning according to the following table so that the "SOULCALIBUR" game is played in good condition.

	T i e	Description	Reference	Notes
Regular inspection	Every month	Check that the PC board is fixed and connected firmly. It might loosen due to the vibration during the game play, and the operation in such conditions may cause breakdown or malfunction,	"5. INSTALLING AND CONNECTING" (p.9)	To be serviced by a qualified service technician only.
		Check that the cabinet, harness, cables do not touch the PC board. If operated with such contact conditions, it may cause breakdown or malfunction.	"5. INSTALLING AND CONNECTING" (p.9)	To be serviced by a qualified service technician only.
	Every six months	Test the display, switches, and sound.	"6-2 DISPLAY TEST (p.28) "6-3 SWITCH TEST (P.341 "6-4 SOUND TEST (P.35)	
		Clean the PC board. A foreign substance or dust on the PC board may cause breakdown or malfunction.		To be serviced by a qualified service technician only.

◄ NOTES

● A service technician should not be charged electricity when touching the PC board. Static electricity may cause the product breakdown or damage.

● Clean the product using a static-electricity-free cleaning equipment such as a brush for an OA equipment. The IC on the PC board may be damaged by static electricity and will not function correctly.

● Do not clean the product using the liquid such as water or detergent. Otherwise it may cause the product breakdown or damage.

● Do not attempt to perform conductivity test using a multi-meter. The IC of the PC board may be damaged even by the internal voltage of a multi-meter, and may not function correctly.

● Do not replace the built-in batteries. Otherwise breakdown or damage of the product may happen.

8-2 Troubleshooting

⚠ **WARNING :**

- Always unplug the power cord of the cabinet from an electrical outlet before checking this product is installed and connected on the cabinet correctly. Otherwise an electrical shock may occur.

- Should any off-flavor or noise occur, turn OFF the power switch of the cabinet immediately and stop operation. Then unplug the power cord from an electrical outlet and contact your distributor. If the machine is kept operating without solving the trouble, it may cause an electrical shock or fire.

⟨ NOTE • Do not replace the built-in batteries. Otherwise breakdown or damage of the product may happen.

When this product does not operate correctly or has any trouble, check it in the following procedure.

1   Turn OFF the power switch of the cabinet, and unplug the power cord from an electrical outlet.

2   Remove any foreign substance or dust on the PC board.

⟨ NOTES • technician should not be charged electricity when touching the PC board. Static electricity may cause the product breakdown or damage.

    • Clean the product using a static-electricity-free cleaning equipment such as a brush for an OA equipment. The IC on the PC board may be damaged by static electricity and will not function correctly.

3   Check again that this product is installed and connected correctly to the cabinet. (Refer to the operation manual of the cabinet and "5. INSTALLING AND CONNECTING" (p.9 ▪ 23) on this operation manual.)

⟨ NOTE • Do not attempt to perform conductivity test using a multi-meter. The IC of the PC board may be damaged even by the internal voltage of a multi-meter, and may not function correctly.

4   Plug the power cord into an electrical outlet, and turn ON the power switch of the cabinet.

5   Check again that adjustment is made correctly.
    (Refer to "6. ADJUSTMENT FOR OPERATION" (p.24 ▪ 44) on this manual.)

6   When the trouble is not solved even after performing the procedure from 1 through 5, turn the power OFF, unplug the power cord from an electrical outlet, and contact your distributor.

9. Disassembling, Safekeeping, Transportation

9-1   Disassembling -To be serviced by a qualified service technician only -

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⚠️**WARNING:**

● Be sure to unplug the power cord from the electrical outlet before conducting any works. Otherwise it may cause an electrical shock.

◖ NOTE ● A service technician should not be charged electricity when touching the PC board. Static electricity may cause the product breakdown or damage.

Disassemble the PC board following the procedure below.

Prepare the operation manual of the cabinet at hand.

1   Turn the power of the cabinet OFF and unplug the power cord from an electric outlet.

2   Open the door of the storage of the PC board in accordance with the operation manual of the cabinet and take out the install board on which the PC board is installed.
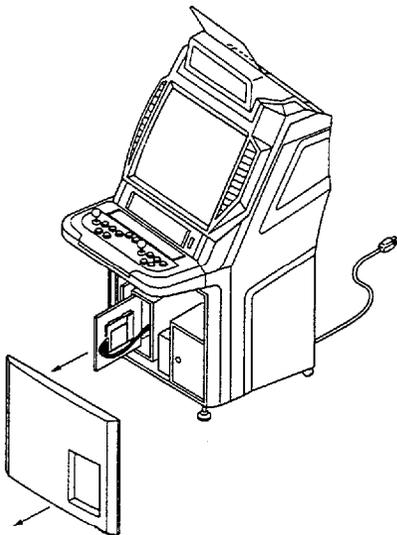
3   Disconnect the cables and harnesses connecting to the PC board.
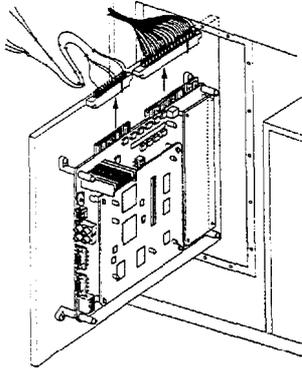
JAMMA standard cabinet, for example

4   Remove the screws on the four comers of the PC board and disassemble the PC board from the install board.

5   Put back the install board and close the door.

9-2 SAFEKEEPING

Data not available at time of publication.

9-3 TRANSPORTATION

Data not available at time of publication

10. DISPOSAL

11. APPENDIX A

- Control Panel Layout Template

- Electrical   Diagram

NOTES:
1. DEBURR AND BREAK ALL SHARP EDGES
2. USE MINIMUM BEND RADII
3. MATERIAL: 16 GA (0.06 THK) CRS
4. FINISH: CARBIDE BLACK (SHERWIN WILLIAMS POLAIN-T F63-B12) OR EQUAL
5. STAMP PART NUMBER AND REV LEVEL IN 1/8" HIGH CHARACTERS
   "SING INDELIBLE INK IN APPROXIMATE POSITION SHOWN
6. PEMSTUD FLANGE TO BE FLUSH WITH PANEL SURFACE

SEE NOTE 5

10-24 X 3/4 PEMSTUD
WITH FLANGE FLUSH MOUNTED
PAINT FREE

8 10-24 X 1 1/4 PEMSTUD
WITH FLANGE FLUSH MOUNTED

2-R. 735

11.44
10.440
10.11
9.625
9.110
8.125

5.421
4.062
3.653
2.353

0.000
0.990
1.99

3.23
8.5

PAINT FREE AREA
FARSIDE

ø1.00

21.500
16.77

Z-R.765

ø0.220
8 PLCS

ø1.12 12X

SEE DETAIL A

2-R1.235

1.99
0.990
0.000
2.500
4.000
9.020
10.000
13.000
15.000
17.000
18.750
20.000
20.250
21.000
30.000
30.990
31.99

ø1.50
3.000
4 10-24 X 3/4 PEMSTUD
WITH FLANGE FLUSH MOUNTED

2.19
1.58
1.300
0.72
2.600
0.41
1.500
5.52
5.83
6.98
7.30
8.45

01.12 (REF)

DETAIL A
2 PLACES

4.00
2.50
0.00
0.99
1.9

Ø1.12 (REF)

4 10-24 X 3/4 PEMSTUD
WITH FLANGE FLUSH MOUNTED

Ø1.50

2.600

3.000

5.52
5.83
6.98
7.30
8.45

1.500

2.19
1.88
1.300
0.72
0.41

DETAIL A
2 PLACES

NOTES:
1. APPLY 18AWG FOR THICK LINES AND 22AWG FOR THIN LINES.
2. ⊕ INDICATES RING TERMINAL.
3. LABELS ARE APPLIED TO BOTH SIDES OF 56 PIN CONNECTOR.
4. KEYS ARE APPLIED ON BOTH 56 AND 48 PIN CONNECTORS.

LEFT SPEAKER
RIGHT SPEAKER
LEFT VOLUME POT
RIGHT VOLUME POT

PLAYER 1
START
UP
DOWN
LEFT
RIGHT
LEFT PUNCH
RIGHT PUNCH
LEFT KICK
RIGHT KICK
GND

PLAYER 2
START
UP
DOWN
LEFT
RIGHT
LEFT PUNCH
RIGHT PUNCH
LEFT KICK
RIGHT KICK
TAG
GND

JAMMA 56P (J1)

RED   V-RED
GRN   V-GREEN
BLU   V-BLUE
BLK   V-GND
WHT   C-SYNC

SPK+   10
SPK-   L

YEL/RED
YEL/GRN

RED/GRN   8   COUNTER1
BLU/GRN   J   COUNTER2
          27 GND
BLK   R   SERVICE
ORG/BLK   15 TEST
BLU

          9   LOCKOUT
RED/BLU   28 COIN1
GRN/BLU   16 COIN2
          T   COIN2

RED/WHT   1P START 17
GRN/WHT   1P UP   18
BLK/WHT   1P DWN   19
BLU/WHT   1P LEFT   20
VLO/WHT   1P RIGHT 21
GRN/WHT   L PUNCH   22
DRK/WHT   R PUNCH   23
YEL/WHT   TAG   24
BLK   GND

BLK/YEL   2P START U
GRN/YEL   2P UP   V
BLU/YEL   2P DWN   V
BLK/YEL   2P LEFT   X
VLO/YEL   2P RIGHT Y
GRN/YEL   L PUNCH   Z
DRK/YEL   R PUNCH   b
VHL/YEL   TAG   b
DRN/YEL   GND

          3   +5V
          C   +5V
          D   +5V
          A   GND
          B   GND
          1   GND
          6   +12V
          6   +12V

JAMMA 48P (J2)

SPK- R A1   VLO/WHT
SPK+ R B1   VLO/RED
KEY   A2
KEY   B2
2P KICK A3   VHL/BLU
2P KICK B3   VHL/VLO

1P KICK B3   V1
1P KICK A3   BLK

MONITOR ASSY
RED   RED
GREEN   GRN
BLUE   BLU
V-GND   V-GND
V-SYNC V-SYNC

COIN COUNTER
COUNTER
+12V

SERVICE
TEST

COIN SW1
COIN SW2

CL1
CL2

POWER SUPPLY
+5V   RED
+5V   RED
+5V   RED
GND   BLK
GND   BLK
GND   BLK
12V   DRN