WARNING

- Be sure to read this manual thoroughly before using this unit to ensure safe operations.
- Store this operation manual in a convenient location.

Namco Ltd.
INTRODUCTION

Thank you very much for purchasing FIGHTINGLAYER 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.

1-1 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.

The 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.

1-3-2 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.
1-3-3  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 p.9) before operation. If it is not installed and connected correctly, it may cause a fire, electrical shock or machine trouble.

1-3-4  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.
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The chapters marked [US] 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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corresponding Standard</td>
<td>JAMMA standard *1 JAMMA VIDEO standard (JVS) *2</td>
</tr>
<tr>
<td>Dimension</td>
<td>268mm x 230mm x 30mm</td>
</tr>
<tr>
<td>Weight</td>
<td>580g</td>
</tr>
<tr>
<td>Input power source</td>
<td>[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)</td>
</tr>
<tr>
<td>Restriction</td>
<td>Indoor use only Temperature : 0°C - 50°C, Humidity : 10% - 85% (no condensation)</td>
</tr>
<tr>
<td>Cabinets applicable to connect</td>
<td>Cabinets corresponding to JAMMA standard Cabinets corresponding to JAMMA VIDEO standard (JVS)</td>
</tr>
<tr>
<td>Direction of the monitor and the monitor signal</td>
<td>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</td>
</tr>
<tr>
<td>Networked game play</td>
<td>Available only with the cabinets corresponding to JAMMA VIDEO standard (JVS). (Install two cabinets linked with cables. Need one PC board only.)</td>
</tr>
<tr>
<td>Control panel</td>
<td>[Pair control panel (to be used for 2P play in one cabinet)] 8-direction joystick 1 x 2 Button switch 6 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 1 Button switch 6 Start switch 1</td>
</tr>
<tr>
<td>How to install it on cabinets</td>
<td>Fix to the wooden install board of the cabinet</td>
</tr>
</tbody>
</table>

*1 JAMMA standard (JAMMA STANDARD; abbreviated as JS) 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 consists of the following items when out of the factory.

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

### List of items in the package

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Remarks</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FIGHTINGLAYER PC Board</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Operation Manual</td>
<td>This operation manual</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Title Sheet</td>
<td>The logotype of FIGHTINGLAYER is printed.</td>
<td>1(or2)</td>
</tr>
<tr>
<td>4</td>
<td>A Sticker *</td>
<td>List of basic techniques, rectangular sheet.</td>
<td>1(or2)</td>
</tr>
<tr>
<td>5</td>
<td>B Sticker *</td>
<td>Control instructions, rectangular sheet.</td>
<td>1(or2)</td>
</tr>
<tr>
<td>6</td>
<td>Extended Edge Harness</td>
<td>48P edge connector with wiring. This is not used when connecting to the cabinet corresponding to JAMMA VIDEO standard (JVS).</td>
<td>1</td>
</tr>
</tbody>
</table>

* The release type of adhesive is used on the adhesive side of the A sticker, B sticker.

Refer to the chapter “11. REPLACEMENT PARTS LIST” on p.54 for the service parts.
4. COMPONENTS

Terminal for the JAMMA edge connector
Soldered side

Terminal for the extended edge connector

Speaker volume

Option switch

Parts mounted side

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

- To be serviced by a qualified service technician only -

⚠️ 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.

 Notícias

- 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

- 9 -
5-1 Before Installing (Both for JS, JVS)

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

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

---

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

**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

5-3-1 Checking the JAMMA Edge Connector

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

1. 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 connected to the blank part of the table below. Otherwise the PC board may break down.

### JAMMA Edge Connector (56P 3.96 mm pitch)

<table>
<thead>
<tr>
<th>Soldered side</th>
<th>Terminal side</th>
<th>Parts mounted side</th>
</tr>
</thead>
<tbody>
<tr>
<td>GND</td>
<td>A</td>
<td>GND</td>
</tr>
<tr>
<td>GND</td>
<td>B</td>
<td>GND</td>
</tr>
<tr>
<td>+5V</td>
<td>C</td>
<td>+5V</td>
</tr>
<tr>
<td>+5V</td>
<td>D</td>
<td>+5V</td>
</tr>
<tr>
<td>+12V</td>
<td>E</td>
<td>+12V</td>
</tr>
<tr>
<td>Mis-insert preventive key</td>
<td>F</td>
<td>Mis-insert preventive key</td>
</tr>
<tr>
<td>Coin counter 2</td>
<td>G</td>
<td>Coin counter 1</td>
</tr>
<tr>
<td>Speaker (-)</td>
<td>L</td>
<td>Speaker (+)</td>
</tr>
<tr>
<td>Audio (GND)</td>
<td>M</td>
<td>Audio (+)</td>
</tr>
<tr>
<td>Video (GREEN)</td>
<td>N</td>
<td>Video (RED)</td>
</tr>
<tr>
<td>Video (SYNC)</td>
<td>P</td>
<td>Video (BLUE)</td>
</tr>
<tr>
<td>Service switch</td>
<td>Q</td>
<td>Video (GND)</td>
</tr>
<tr>
<td></td>
<td>R</td>
<td>Test switch</td>
</tr>
<tr>
<td>Coin switch 2</td>
<td>T</td>
<td>Coin switch 1</td>
</tr>
<tr>
<td>P2 start switch</td>
<td>U</td>
<td>P1 start switch</td>
</tr>
<tr>
<td>P2 joystick (UP)</td>
<td>V</td>
<td>P1 joystick (UP)</td>
</tr>
<tr>
<td>P2 joystick (DOWN)</td>
<td>W</td>
<td>P1 joystick (DOWN)</td>
</tr>
<tr>
<td>P2 joystick (LEFT)</td>
<td>X</td>
<td>P1 joystick (LEFT)</td>
</tr>
<tr>
<td>P2 joystick (RIGHT)</td>
<td>Y</td>
<td>P1 joystick (RIGHT)</td>
</tr>
<tr>
<td>P2 button switch 1</td>
<td>Z</td>
<td>P1 button switch 1</td>
</tr>
<tr>
<td>P2 button switch 2</td>
<td>a</td>
<td>P1 button switch 2</td>
</tr>
<tr>
<td>P2 button switch 3</td>
<td>b</td>
<td>P1 button switch 3</td>
</tr>
<tr>
<td></td>
<td>c</td>
<td></td>
</tr>
<tr>
<td></td>
<td>d</td>
<td></td>
</tr>
<tr>
<td>GND</td>
<td>e</td>
<td>GND</td>
</tr>
<tr>
<td>GND</td>
<td>f</td>
<td>GND</td>
</tr>
</tbody>
</table>
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

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)

<table>
<thead>
<tr>
<th>Soldered side</th>
<th>Terminal side</th>
<th>Parts mounted side</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker R (-) (yellow)</td>
<td>A1</td>
<td>B1</td>
</tr>
<tr>
<td></td>
<td>A2</td>
<td>B2</td>
</tr>
<tr>
<td></td>
<td>A3</td>
<td>B3</td>
</tr>
<tr>
<td></td>
<td>A4</td>
<td>B4</td>
</tr>
<tr>
<td>Mis-insert preventive key</td>
<td>A5</td>
<td>B5</td>
</tr>
<tr>
<td></td>
<td>A6</td>
<td>B6</td>
</tr>
<tr>
<td></td>
<td>A7</td>
<td>B7</td>
</tr>
<tr>
<td>P2 button switch 4 (white/blue)</td>
<td>A8</td>
<td>B8</td>
</tr>
<tr>
<td></td>
<td>A9</td>
<td>B9</td>
</tr>
<tr>
<td></td>
<td>A10</td>
<td>B10</td>
</tr>
<tr>
<td></td>
<td>A11</td>
<td>B11</td>
</tr>
<tr>
<td></td>
<td>A12</td>
<td>B12</td>
</tr>
<tr>
<td></td>
<td>A13</td>
<td>B13</td>
</tr>
<tr>
<td></td>
<td>A14</td>
<td>B14</td>
</tr>
<tr>
<td></td>
<td>A15</td>
<td>B15</td>
</tr>
<tr>
<td></td>
<td>A16</td>
<td>B16</td>
</tr>
<tr>
<td></td>
<td>A17</td>
<td>B17</td>
</tr>
<tr>
<td></td>
<td>A18</td>
<td>B18</td>
</tr>
<tr>
<td>P1 button switch 6 (gray)</td>
<td>A19</td>
<td>B19</td>
</tr>
<tr>
<td></td>
<td>A20</td>
<td>B20</td>
</tr>
<tr>
<td>P1 button switch 4 (blue)</td>
<td>A21</td>
<td>B21</td>
</tr>
<tr>
<td></td>
<td>A22</td>
<td>B22</td>
</tr>
<tr>
<td></td>
<td>A23</td>
<td>B23</td>
</tr>
<tr>
<td></td>
<td>A24</td>
<td>B24</td>
</tr>
</tbody>
</table>

---

---
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 instructions 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.
Connect the wires of the extended edge harness on the following table to the terminals of P1 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.

<table>
<thead>
<tr>
<th>Soldered side</th>
<th>Terminal side</th>
<th>Parts mounted side</th>
</tr>
</thead>
<tbody>
<tr>
<td>P2 button switch 4 (white/blue)</td>
<td>A8</td>
<td>B8</td>
</tr>
<tr>
<td>P1 button switch 6 (gray)</td>
<td>A19</td>
<td>B9</td>
</tr>
<tr>
<td>P1 button switch 4 (blue)</td>
<td>A20</td>
<td>B10</td>
</tr>
</tbody>
</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.

- Apply 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.

Install the control panel on the cabinet.
5-3-4 Connecting to the Speaker

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)
  1. 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 (A1, B1) 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.11)
     - "5-3-1 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
  1. Turn OFF the power switch of the cabinet and unplug the power cord from an electrical outlet.
  2. Connect the wires of the terminals A1 and B1 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.

<table>
<thead>
<tr>
<th>Soldered side</th>
<th>Terminal side</th>
<th>Parts mounted side</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker R (-) (yellow)</td>
<td>A1</td>
<td>B1</td>
</tr>
</tbody>
</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.
5-3-5 Connecting to the connectors

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.
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)

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

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

![Diagram of control panel](image)

**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 P2.

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.

<table>
<thead>
<tr>
<th>For P1 side</th>
<th>For P2 side</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of joystick and switch in the figures above</td>
<td>Name of joystick and switch in the figures above</td>
</tr>
<tr>
<td>P1 start switch</td>
<td>P1 start switch</td>
</tr>
<tr>
<td>P1 8-direction joystick (up)</td>
<td>P1 8-direction joystick (up)</td>
</tr>
<tr>
<td>P1 8-direction joystick (down)</td>
<td>P1 8-direction joystick (down)</td>
</tr>
<tr>
<td>P1 8-direction joystick (left)</td>
<td>P1 8-direction joystick (left)</td>
</tr>
<tr>
<td>P1 8-direction joystick (right)</td>
<td>P1 8-direction joystick (right)</td>
</tr>
<tr>
<td>P1 button switch 1</td>
<td>P1 button switch 2</td>
</tr>
<tr>
<td>P1 button switch 2</td>
<td>P1 button switch 3</td>
</tr>
<tr>
<td>P1 button switch 3</td>
<td>P1 button switch 4</td>
</tr>
<tr>
<td>P1 button switch 4</td>
<td>P1 button switch 5</td>
</tr>
<tr>
<td>P1 button switch 5</td>
<td>P1 button switch 6</td>
</tr>
</tbody>
</table>

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 P2.
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.

**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

**WARNING:**

- 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.

- 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

- 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

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.

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

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.
6-1-1 Adjustment 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.
6-1-2 Selecting the Adjusting Items

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

1. 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.

<table>
<thead>
<tr>
<th>DISPLAY TEST</th>
<th>Switch test</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWITCH TEST</td>
<td>Sound test</td>
</tr>
<tr>
<td>SOUND TEST</td>
<td>JVS cabinet option</td>
</tr>
<tr>
<td>JVS CABINET OPTIONS</td>
<td>Game option</td>
</tr>
<tr>
<td>GAME OPTIONS</td>
<td>Coin option</td>
</tr>
<tr>
<td>COIN OPTIONS</td>
<td>Check play data</td>
</tr>
<tr>
<td>A.D.S.</td>
<td>Data clear</td>
</tr>
<tr>
<td>DATA CLEAR</td>
<td>Finishing the test mode</td>
</tr>
<tr>
<td>EXIT &amp; SAVE</td>
<td></td>
</tr>
</tbody>
</table>
3 Hit the P1 8-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).

![PI 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.

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

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

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).

![PI 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 8-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.

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 ('icon') 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.

- COLOR EDIT
  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”.

- 28 -
6-2-1 Common Operation

1. Perform the procedure 1 - 4 of "6-1-2 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 is displayed over the diagonal screen.

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

The color edit screen is not displayed
2 Press the P1 button switch 1 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.

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 According to the item to be adjusted, perform the procedure described under “6-2-2 CONVERGENCE” (p.30) through “6-2-3 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 “6-1-3 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)

1 Perform the procedures 1 and 2 of “6-2-1 Common Operation” (p.29) to display the “CONVERGENCE” screen.

* If “DISPLAY TEST” screen appears already, common operation 1 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.

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

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 P1 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.

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".

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 “6-2-1 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.

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.

<table>
<thead>
<tr>
<th>COLOR BAR</th>
<th>Contrast :</th>
<th>Bright R :</th>
<th>Bright G :</th>
<th>Bright B :</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Whole contrast</td>
<td>Brightness (red)</td>
<td>Brightness (green)</td>
<td>Brightness (blue)</td>
</tr>
<tr>
<td></td>
<td>Color bar (white)</td>
<td>Color bar (red)</td>
<td>Color bar (green)</td>
<td>Color bar (blue)</td>
</tr>
</tbody>
</table>

PREVIOUS VALUE : P-1 BUTTONS
EXIT COLOR EDIT : P-1 BUTTON 4
NEXT COLOR TEST : P-1 BUTTON 1
EXIT : P-1 START

NOTES

- If the “COLOR BAR” 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.

- 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 8-direction joystick to up or down to select the adjusting item out or “Contrast”, “Bright R”, “Bright G”, and “Bright B”.

3 Hit the P1 8-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 be checked on the color bar on the screen.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contrast</td>
<td>Adjusting contrast of the picture</td>
</tr>
<tr>
<td>Bright R</td>
<td>Adjusting shade and tone of red color of the picture signal</td>
</tr>
<tr>
<td>Bright G</td>
<td>Adjusting shade and tone of green color of the picture signal</td>
</tr>
<tr>
<td>Bright B</td>
<td>Adjusting shade and tone of blue color of the picture signal</td>
</tr>
</tbody>
</table>

- 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 “6-1-3 Finishing the Test Mode” (p.28) to exit the test mode.
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 “6-1-2 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 1”, “DIP SW 2”, “COIN 1”, “COIN 2”. (In case that there is only one coin counter, 0 shall be displayed under “COIN 2”.

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.
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 8-direction joystick” and “P2 8-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.

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 Perform “6-1-3 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.

1 Perform the procedure 1 - 4 of “6-1-2 Selecting the Adjusting Items” (p.26-27). Select “SOUND TEST” in 3. T distributor to make inquiries about this product and/or about repair.

<table>
<thead>
<tr>
<th>SOUND TEST</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOUND : [000]</td>
</tr>
<tr>
<td>STATUS : 0000</td>
</tr>
<tr>
<td>SPEAKER OUT : STEREO</td>
</tr>
<tr>
<td>SOUND PLAY : P1-BUTTON1</td>
</tr>
<tr>
<td>SET (MONAURAL) : P1-BUTTON2</td>
</tr>
<tr>
<td>EXIT : P1-START</td>
</tr>
</tbody>
</table>

- Sound number
- Status of sound output
- Current setting: monaural/stereo
- How to play the sound
- How to change the setting of monaural/stereo
- How to return to the test menu screen
2 Make adjustment according to the description on the table below with the appropriate joystick and the switch.

<table>
<thead>
<tr>
<th>Item</th>
<th>Test/Adjustment</th>
<th>How to operate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Changing the sound number</td>
<td>The sound to be used in the game is selected.</td>
<td>Hit the P1 8-direction joystick to right or left to change the number.</td>
</tr>
<tr>
<td>Play the sound</td>
<td>The sound of the selected number is played.</td>
<td>Press the P1 button switch 1 to play the sound.</td>
</tr>
<tr>
<td>Switch monaural/stereo</td>
<td>Monaural sound/stereo sound is switched.</td>
<td>Press the P1 button switch 2 to switch.</td>
</tr>
<tr>
<td>Stereo sound test</td>
<td>Stereo sound output is tested.</td>
<td>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.</td>
</tr>
</tbody>
</table>

**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.

![Diagram of P1 button switches and P1 start switch](image)

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 Perform “6-1-3 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.

1 Perform the procedure 1 - 4 of “6-1-2 Selecting the Adjusting Items” (p.26-27). Select “JVS CABINET OPTIONS” in 3.

The following screen is displayed.
2 Hit the P1 8-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.)

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.

<table>
<thead>
<tr>
<th>Synchronizing signal output type of the video output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composite (composite synchronization)</td>
</tr>
<tr>
<td>Separate (vertical synchronization/horizontal synchronization)</td>
</tr>
</tbody>
</table>

● 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.

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 Perform “6-1-3 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 “6-1-2 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 : EASY[* * * * * * *]HARD
(b) DAMAGE LEVEL : LOW[* * * * * * *]HIGH
(c) TIME OUT SPEED : SLOW[* * * * * *]FAST
(d) FIGHT COUNT<1P GAME> : 2
(e) FIGHT COUNT<VS GAME> : 2
(f) CHARACTER CHANGE AT CONTINUE : YES
(g) CHARACTER CHANGE AT VS GAME : NO
(h) MUSIC IN ATTRACT : YES
(i) EVENT MODE : OFF

EXIT : P1-START

How to return to the test menu screen

2 Hit the P1 8-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 8-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)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
</table>

(b) DAMAGE LEVEL (Life gage level)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
(c) **TIME OUT SPEED** (Time count decreasing speed)

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

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

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

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

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

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

| YES (possible) | NO (not possible) |

(g) **CHARACTER CHANGE AT VS GAME**

(Changing characters in 2P play when somebody buys-in)

| YES (possible) | NO (not possible) |

(h) **MUSIC IN ATTRACT** (Sound played in attract mode)

| YES (with sound) | NO (no sound) |

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

| ON (game over for both players) | OFF (a winner continues 1P play) |

4. 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 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.
6-7 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 "6-1-2 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 8-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 8-direction joystick right or left to change the setting.

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.

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)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coin(S) TO START</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coin(S) TO CONTINUE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: This value should be the same value as (a)START COST or smaller.
(c) COIN CHUTE 1 MECHANICAL VALUE
(The number of coin(s) to be added when the coin switch 1 activates once)

1 COIN COUNT AS

| 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 COIN COUNT AS

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

(e) CREDIT MODE (Record of credit)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMON</td>
<td>EACH ONE</td>
</tr>
<tr>
<td>(When either coin switch activates, or either start switch is pressed, these are counted on one common credit.)</td>
<td>(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.)</td>
</tr>
</tbody>
</table>

* 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)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 COUNTER</td>
<td>2 COUNTERS</td>
</tr>
<tr>
<td>(Two coin switches uses one coin counter in common.)</td>
<td>(Each of two coin switches uses own coin counter.)</td>
</tr>
</tbody>
</table>

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)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>YES (coins needed)</td>
<td>NO (no coins)</td>
</tr>
</tbody>
</table>

- 41 -
4 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 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.

6-8 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 "6-1-2 Selecting the Adjusting Items" (p.26-27). Select "A.D.S." in 3.

2 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 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 Perform "6-1-3 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 "6-1-2 Selecting the Adjusting Items" (p.26-27). Select "DATA CLEAR" in 3.
The following screen is displayed.

**DATA CLEAR**

(a) CANCEL  
(b) A.D.S CLEAR  
(c) RANKING CLEAR  
(d) SET DEFAULTS ALL OPTIONS  
(e) ALL CLEAR

| EXEC: P1-BUTTON1 | EXIT: P1-START |

- Return to the test menu screen
- Clear the playing data only
- Initialize the ranking data
- Set the value of all the options to default
- Clear all the data recorded

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](image)

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.

<table>
<thead>
<tr>
<th>What to be executed</th>
<th>Item displayed on the screen</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Erase only the A.D.S. data (Ref. &quot;6-8 A.D.S.&quot; on p.42)</td>
<td>A.D.S. CLEAR</td>
</tr>
<tr>
<td>(2) Initialize the ranking data, such as straight victories record, to default value as factory-setting.</td>
<td>RANKING CLEAR</td>
</tr>
<tr>
<td>(3) Initialize the values of all the options set in the test mode (Ref. &quot;6-2 DISPLAY TEST&quot; on p.28 through &quot;6-8 A.D.S.&quot; on p.42) to default values as factory-setting.</td>
<td>SET DEFAULTS ALL OPTIONS</td>
</tr>
<tr>
<td>(4) Execute all the (1) (2) and (3) together at the same time.</td>
<td>ALL CLEAR</td>
</tr>
</tbody>
</table>
3 Press the P1 button switch 1 to execute the selected item.

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 8-direction joystick up or down to select “CANCEL” on the screen and then press the 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.

5 Perform “6-1-3 Finishing the Test Mode” (p.28) to exit the test mode.
7. OPERATION

⚠️ 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.
- If you have to touch the PC board during operation, refer to "8. INSPECTION & CLEANING, TROUBLESHOOTING" on p.47.
- 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 p.9) before operation. Otherwise it may cause a fire, electrical shock or machine trouble.

7-1 Persons Not Recommended to Play

⚠️ CAUTION ⚠️

- To ensure the safety of players, those who
  - are not feeling well;
  - are injured on the arms or hands;
  - are under the influence of alcohol;
are not recommended to play this game.

7-2 Restrictions When Operated

⚠️ WARNING ⚠️

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

️ NOTICES ️

- 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 -

8-1 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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Description</th>
<th>Reference</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Every month</td>
<td>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.</td>
<td>“5. INSTALLING AND CONNECTING” (p.9)</td>
<td>To be serviced by a qualified service technician only.</td>
</tr>
<tr>
<td></td>
<td>Check that the cabinet, harness, cables do not touch the PC board. If operated with such contact conditions, it may cause breakdown or malfunction.</td>
<td>“5. INSTALLING AND CONNECTING” (p.9)</td>
<td>To be serviced by a qualified service technician only.</td>
</tr>
<tr>
<td>Regular inspection</td>
<td>Test the display, switches, and sound.</td>
<td>“6-2 DISPLAY TEST” (p.28)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>“6-3 SWITCH TEST” (p.34)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>“6-4 SOUND TEST” (p.35)</td>
<td></td>
</tr>
<tr>
<td>Every six months</td>
<td>Clean the PC board. A foreign substance or dust on the PC board may cause breakdown or malfunction.</td>
<td></td>
<td>To be serviced by a qualified service technician only.</td>
</tr>
</tbody>
</table>

**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.
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**

- 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.

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 –

⚠️ WARNING:

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

 lett 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 corners 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

After disassembled, pack this product with the packing materials attached to the product or conductive sponges and aircaps, and then keep it in a dry place with no dust. Do not put heavy stuff on it.

**NOTE**
- Do not keep this product in areas,
  - where exposed to direct sunlight.
  - with direct water contact
  - with high humidity
  - with much dust
  - near heating systems
  - where a drastic change in temperature might cause dew condensation
  - with vibration
  - near inflammable substances or volatile substances.

Otherwise it may cause breakdown.

9-3 Transportation

When transporting this product for transfer, resale or repair, pack this product with the packing materials attached to the product, or conductive sponges or aircaps, and put it in a cardboard carton.
10. DISPOSAL

⚠️ WARNING:

- Do not throw this product into a fire. Otherwise it may cause an explosion of lithium batteries used in the product and 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.
11. REPLACEMENT PARTS LIST

The following parts are provided as replacement parts for this product.
Contact your distributor for inquiries on the replacement parts.

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Quantity</th>
<th>Model number</th>
<th>Parts No.</th>
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<td>①</td>
<td>Title sheet</td>
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<td></td>
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<tr>
<td>②</td>
<td>A sticker</td>
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<td>③</td>
<td>B sticker</td>
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<td>FIGHTINGLAYER PC Board Operation Manual</td>
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<td>499-071</td>
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<td>⑤</td>
<td>Extended edge connector (48P)</td>
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<td>DDK-made 225D-10024C2-2312</td>
<td>305-030</td>
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The specifications and this operation manual are subject to change without notice.