

TAITO NET™

TAITO G NET

Instruction Manual

⚠ Caution

- To use this machine safely and correctly, read this manual carefully and make sure you fully understand the contents before using the machine.
- After reading this manual, keep it in a designated place so that it can be referenced by others anytime.

TAITO CORPORATION®

CORRECTION

There are two errors in the Instruction Manual. Please refer to the followings.

P -22



- 8** After installing the G card (game) correctly, turn ON the power switch of the enclosure.
(If the G card is not installed correctly, start the installation again from the beginning.)

- 8** After installing the G card (game) correctly, turn ON the power switch of the enclosure.
(If the G card is not installed correctly, start the installation again from the beginning.)



Important!

In the event the "G card" is inserted improperly, a system error occurs and game can not be played. Make sure the "G card" is inserted into the game(mother) board properly.
(Error messages → Page 28)

P -28



Screen display	Contents	Treatment
COIN ERROR	<ul style="list-style-type: none"> This error occurs when it takes one second or longer for the coin inserted into the enclosure to pass through the micro-switch inside the rejecter. 	Read the instruction manual of the enclosure.
SERVICE SW ERROR	<ul style="list-style-type: none"> The service switch inside the enclosure is turned ON by being caught due to damage. The harness connected to the service switch is shorted. 	Read the instruction manual of the enclosure.
TILT	<ul style="list-style-type: none"> The tilt sensor is functioning. 	Read the instruction manual of the enclosure.



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TILT	<ul style="list-style-type: none"> The tilt sensor is functioning. 	Read the instruction manual of the enclosure.
SYSTEM ERROR	<ul style="list-style-type: none"> The game PC board cannot read the program from the G card (game). 	<ul style="list-style-type: none"> Check if the G card (game) is inserted securely. (Installation → Page 22)



Trouble	Possible cause	Treatment
The game PC board repeats resetting.	· The game PC board cannot read the program from the G card (game).	· Check if the G card (game) is inserted securely. (Installation → Page 22)
	· The G card is broken due to shock or static electricity.	· Replace the G card.
	· The power voltage is not appropriate.	· Adjust the switching power voltage. (Installation → Page 23)
	· The edge connector is badly connected.	· Remove dirt on the edge connector terminal side using a clean and soft cloth.
	· The harness is disconnected or shorted.	· Replace the harness.
The sound level is low.	· The sound level setting on the main PC board is set to lower volume.	· Turn the sound level adjusting dial clockwise to full volume. (Name of each parts→ Page 11)
	· The sound level on the enclosure side is set to lower volume.	· Turn the sound level adjusting dial inside the enclosure.
The system sometimes resets or the screen stops displaying.	· The power voltage is not appropriate.	· Adjust the switching power voltage. (Installation → Page 23)
	· The enclosure power is connected by the same power line to the vending machine, refrigerator, or air conditioner.	· Change the power supply to the enclosure.
	· The game PC board is broken due to shock or static electricity.	· Replace the game PC board.
No operation is performed.	· The power is not supplied to the power plug of the enclosure.	· Insert the plug after turning OFF the power switch. Then, turn ON the power switch again.
	· The JAMMA harness is not connected correctly.	· Insert the JAMMA harness securely after checking the connector direction.
	· The JAMMA harness is disconnected or shorted.	· Replace the JAMMA harness.
	· The harness specifications are not appropriate.	· Replace it with the correct harness.
	· The power voltage is not appropriate.	· Adjust the switching power voltage. (Installation → Page 23)
	· The game PC board is broken due to shock or static electricity.	· Replace the game PC board.
	· The fuse is blown off.	· Replace the fuse after checking if the harness shorts with the game PC board or other components.



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The game PC board repeats resetting.	· The power voltage is not appropriate.	· Adjust the switching power voltage. (Installation → Page 23)
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The system sometimes resets or the screen stops displaying.	· The power voltage is not appropriate.	· Adjust the switching power voltage. (Installation → Page 23)
	· The enclosure power is connected by the same power line to the vending machine, refrigerator, or air conditioner.	· Change the power supply to the enclosure.
	· The game PC board is broken due to shock or static electricity.	· Replace the game PC board.
No operation is performed.	· The power is not supplied to the power plug of the enclosure.	· Insert the plug after turning OFF the power switch. Then, turn ON the power switch again.
	· The JAMMA harness is not connected correctly.	· Insert the JAMMA harness securely after checking the connector direction.
	· The JAMMA harness is disconnected or shorted.	· Replace the JAMMA harness.
	· The harness specifications are not appropriate.	· Replace it with the correct harness.
	· The power voltage is not appropriate.	· Adjust the switching power voltage. (Installation → Page 23)
	· The game PC board is broken due to shock or static electricity.	· Replace the game PC board.
	· The fuse is blown off.	· Replace the fuse after checking if the harness shorts with the game PC board or other components.

Preface

Thank you very much for purchasing our "TAITO G NET" game machine.

Purpose of this instruction manual:

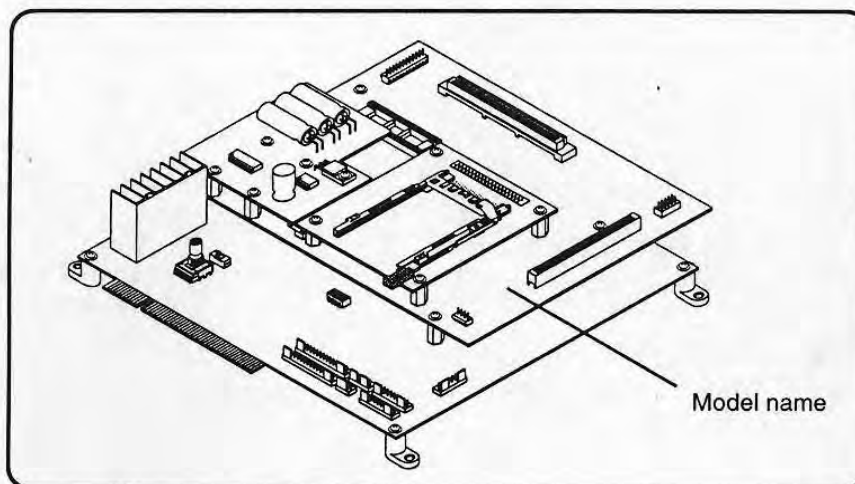
This manual includes handling methods and precautions for using the "TAITO G NET" (hereafter referred to as "mother PC board") correctly. For details about the "TAITO G CARD" (hereafter referred to as "G card"), see the separated game instruction manual for the "TAITO G CARD."

(This product does not include the G card (game) and its instruction manual.)

Read this manual carefully and keep it in a safe place so that it can be used as a reference at any time. If you lose this manual, contact our dealers to obtain a new one.

For contact:

For inquiries about problems, contact the dealer where you purchased your "TAITO G NET," after checking the model name described on the product.



Contents of this instruction manual:

The contents of this manual are as follows:

- Introduction :Collection of the safety information which are described in each chapter of this manual
- Chapter 1 :Installation
- Chapter 2 :Operation checks
- Chapter 3 - 5 :Maintenance

Important information for safety

This manual use the following definitions to explain the safety information. Read them carefully and be sure to follow all cautions and warnings.

Definition of personnel in this manual:

We use the following definitions for game-machine personnel in this manual:

● Management staff

Staff who operate and maintain amusement sites or shops under the supervision of the owners of amusement game machine.

● Arcade maintenance man

Persons who have experiences in arcade-game machine maintenance and regularly carry out the installation, assembly and maintenance checks of games, and who replace parts and consumable items under supervision of the game owners or the shop management staff.

● Engineer

Persons who work for amusement game machine manufacturers and are responsible for the design, product inspection, and maintenance of amusement game machines, or those who have knowledge of electrical, electronic, and mechanical engineering that is equivalent to the knowledge of an engineering high school graduate, and who regularly maintain and repair amusement game machines.

● Player

Persons who play games at facilities and shops where arcade amusement game machines are installed.

● Gallery

Persons who look at games at facilities and shops where arcade amusement game machines are installed.

Explanation of the safety symbols:

In this manual, degrees of danger and damage caused by mishandling are classified by use of the following labels and symbols.



Indicates a situation that may lead to death or serious injury if not handled properly.



Indicates a situation that may lead to personal injury, or damage to the parts or the machine if not handled properly.



Indicates important parts of the procedures that should be followed carefully. Indicates possible situations that may occur when working with this machine.



Indicates prohibitions ("Don'ts").

Cautions for safety

● **Product overview**

⚠ CAUTION

- Be careful not to injure yourself on the soldered side of the game (mother) PC board when working with it.
- Make sure to turn OFF the power switch before pulling out or putting in the connector or the G card from the game (mother) PC board, or changing the DIP switches settings.
- The game (mother) PC board may be damaged by a static electricity, since it consists of precision parts.
- Do not drop the game (mother) PC board, give it a strong shock on, or touch it with wet hands. It may cause a problem or accident.
- Make sure to turn OFF the power switch before changing the sound between stereophonic and monophonic.
- If you adjust the output voltage of the switching regulator higher than the standard value, the game (mother) PC board or the G card may be damaged.
- Do not measure points using a tester, even if the game (mother) PC board is obviously defective.
- Before inserting a G card, make sure to turn OFF the power switch first, and then insert it into the G card insert slot slowly and securely while making sure of the direction. Otherwise, it may cause a problem or accident.
- Do not make the G card insert slot wet or dirty. It may cause a problem or accident.
- Never insert cards other than the G card into the G card insert slot. It may cause a problem or accident.
- Do not drop the G card, give it a strong shock on, or touch or disassemble it with wet hands. It may cause a problem or accident.

● Installation

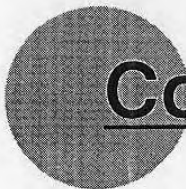
⚠ CAUTION

- Make sure to follow the installation requirements.
- Turn OFF the power switch of the game machine before installation.
- Before removing the game (mother) PC board from the game machine, turn OFF the power switch.
- Be careful not to injure yourself on the soldered side of the game (mother) PC board during installation.
- Make sure to turn OFF the power switch before pulling out or putting in the connector or the G card from the game (mother) PC board, or changing the DIP switches settings.
- The game (mother) PC board may be damaged by a static electricity, since it consists of precision parts.
- Do not drop the game (mother) PC board, give it a strong shock on, or touch it with wet hands. It may cause a problem or accident.
- Before inserting a G card, make sure to turn OFF the power switch first, and then insert it into the G card insert slot slowly and securely while making sure of the direction. Otherwise, it may cause a problem or accident. Inserting it forcibly may cause a problem.
- Do not make the G card insert slot wet or dirty. It may cause a problem or accident.
- Make sure to adjust the voltage.
- If you adjust the output voltage of the switching regulator higher than the standard value, the game (mother) PC board or the G card may be damaged.
- Never insert cards other than the G card into the G card insert slot. It may cause a problem or accident.
- Do not drop the G card, give it a strong shock on, or touch or disassemble it with wet hands. It may cause a problem or accident.
- Do not connect P and P1 connectors used for our EGRET 29 game machine. It may cause a problem or accident.

● Maintenance

▲ CAUTION

- Use of parts other than genuine Taito parts in the maintenance will be regarded as unauthorized modification. We will not repair any modified machines. Never modify the machine. It may cause a problem or accident.
- Turn OFF the power switch of the enclosure before performing maintenance.
- Before removing the game (mother) PC board from the enclosure, turn OFF the power switch.
- Maintenance of the game (mother) board should be performed by arcade maintenance men.
- Be careful not to injure yourself on the soldered side of the game (mother) PC board when working with it.
- Make sure to turn OFF the power switch before pulling out or putting in the connector or the G card from the game (mother) PC board, or changing the DIP switches settings.
- The game (mother) PC board may be damaged by a static electricity, since it consists of precision parts.
- Do not drop the game (mother) PC board, give it a strong shock on, or touch it with wet hands. It may cause a problem or accident.



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· Arcade maintenance man	
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· Player	
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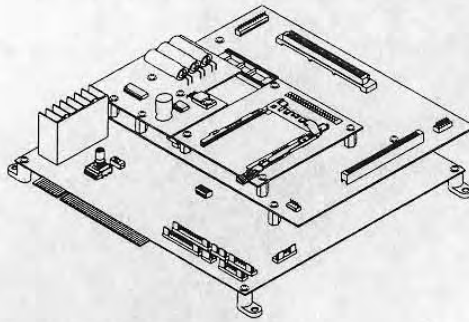
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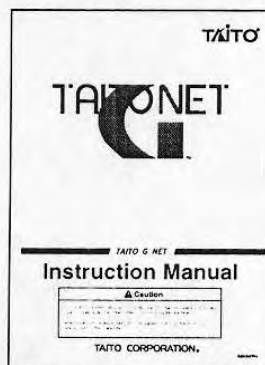
Product Overview

Checking the packed items

Make sure that all items are delivered before installation. If there is any shorted, or missed item, contact the dealer where you purchased the game machine.



Mother PC board
(M43*0337A)



Instruction manual
(G2500879A)

● **“TAITO G NET” game machine**

This machine consists of a mother PC board (a set of the main PC board and the FC PC board). It cannot function without the G card (game).

By installing the G card (game), the mother PC board becomes the game PC board. By installing this game PC board into the enclosure, the game machine will function. [This product does not include the G card (game).]

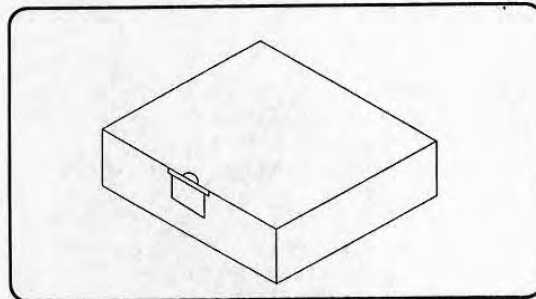
● **Instruction manual**

This manual includes handling methods and cautions for using the mother PC board game machine safely and appropriately. Keep this manual in a safe place so that it can be used as a reference at any time. If you lose this manual, contact the dealer where you purchased the machine.

● **Handling the package carton boxes**

Mother PC board is packaged in carton boxes for protection at delivery.

Keep the package boxes in a safe place so that it can be used again when storing or transporting the boards for repairs.



● **Handling this product**

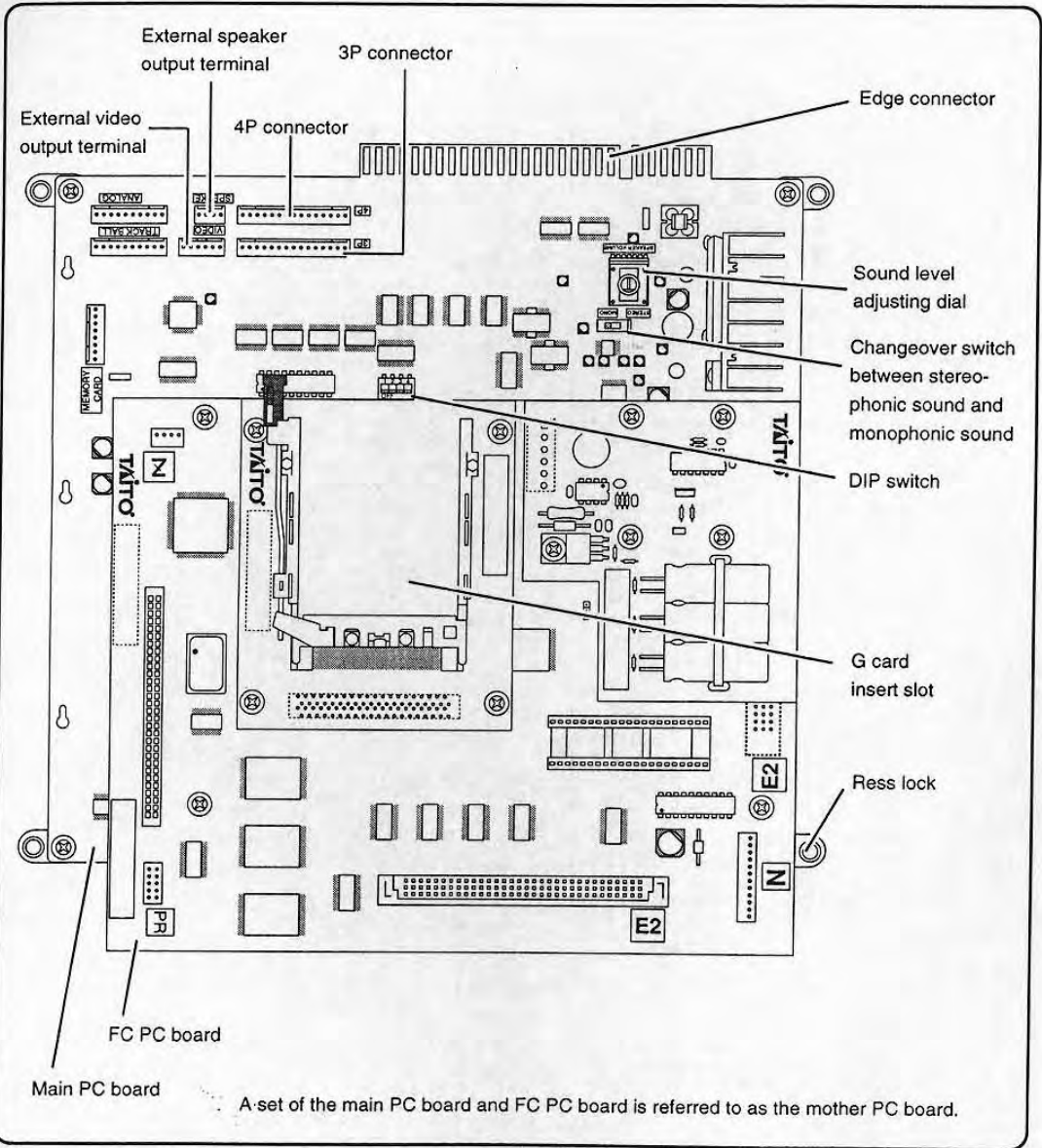
This product is an arcade use mother PC board consisting of precision parts. Be sure to handle it carefully.

N

⚠ CAUTION

- Be careful not to injure yourself on the soldered side of the game (mother) PC board when working with it.
- Make sure to turn OFF the power switch before pulling out or putting in the connector or the G card from the game (mother) PC board, or changing the DIP switches settings.
- The game (mother) PC board may be damaged by a static electricity, since it consists of precision parts.
- Do not drop the game (mother) PC board, give it a strong shock on, or touch it with wet hands. It may cause a problem or accident.
- Make sure to turn OFF the power switch before changing the sound between stereophonic and monophonic.
- If you adjust the output voltage of the switching regulator higher than the standard value, the game (mother) PC board or the G card may be damaged.
- Do not measure points using a tester, even if the game (mother) PC board is obviously defective.
- Before inserting a G card, make sure to turn OFF the power switch first, and then insert it into the G card insert slot slowly and securely while making sure of the direction. Otherwise, it may cause a problem or accident.
- Do not make the G card insert slot wet or dirty. It may cause a problem or accident.
- Never insert cards other than the G card into the G card insert slot. It may cause a problem or accident.
- Do not drop the G card, give it a strong shock on, or touch or disassemble it with wet hands. It may cause a problem or accident.

Name of each part



● **Edge connector**

An edge connector is used to connect the game PC board electrically to the outside.

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


● **3P and 4P connectors**

3P and 4P connectors are installed on the main PC board.

External drawings	Terminal No.	Description
<p>(Top View)</p> <p>(Top View)</p>	1	Coin counter 3
	2	Coin lockout 3
	3	Coin switch 3
	4	Start switch 3
	5	Control 1 UP
	6	Control 2 DOWN
	7	Control 3 LEFT
	8	Control 4 RIGHT
	9	Control 5 PUSH1
	10	Control 6 PUSH 2
	11	Control 7 PUSH 3
	12	Control 8 SPARE
	13	Control 9 SPARE
	14	H/V HOLD1
	15	GND

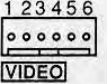
● **Exterior speaker output terminal**

This terminal is used to output sound from the power amplifier which is mounted on the main PC board.

External drawings	Terminal No.	Description
 <p>(Top View)</p>	1	Left speaker (+)
	2	Left speaker (-)
	3	Right speaker (-)
	4	Right speaker (+)

● **External video output terminal**

This terminal is used to output the video image signal to an external component.

External drawings	Terminal No.	Description
 <p>(Top View)</p>	1	Video RED
	2	Video GREEN
	3	Video BLUE
	4	Video SYNC
	5	GND
	6	Fsc (3.58MHz)

● **DIP switch**

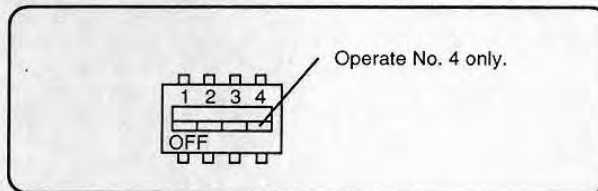
The DIP switches are used to enter the test mode.

For details about how to set and operate the test mode, see the instruction manual of the G card (game).

[This product does not include the instruction manual of the G card (game).]

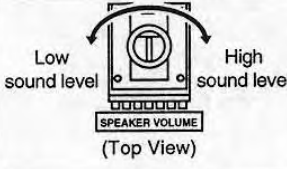
Important!

There are two methods to start the test mode: A method which uses the test switch on the enclosure and a method which uses the DIP switches on the mother PC board.
When using the test switch on the enclosure, refer to the instruction manual of the enclosure and start the test mode.



● **Sound level adjusting dial**

This is a hardware sound level adjusting dial installed on the main PC board.

External drawings	Function
	<p>The sound level is raised by turning the sound level adjusting dial to the right, as viewed from above the main PC board, and lowered by turning it to the left.</p>

● **Changeover switch between stereophonic and monophonic sound**

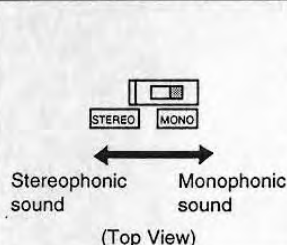
This switch is used to change the sound output between monophonic sound and stereophonic sound. The switch has been set at monophonic sound when shipped.

⚠ CAUTION

Make sure to turn OFF the power switch before changing the sound between stereophonic and monophonic.

Important!

Use the "exterior speaker output terminal" to output the stereo sound.

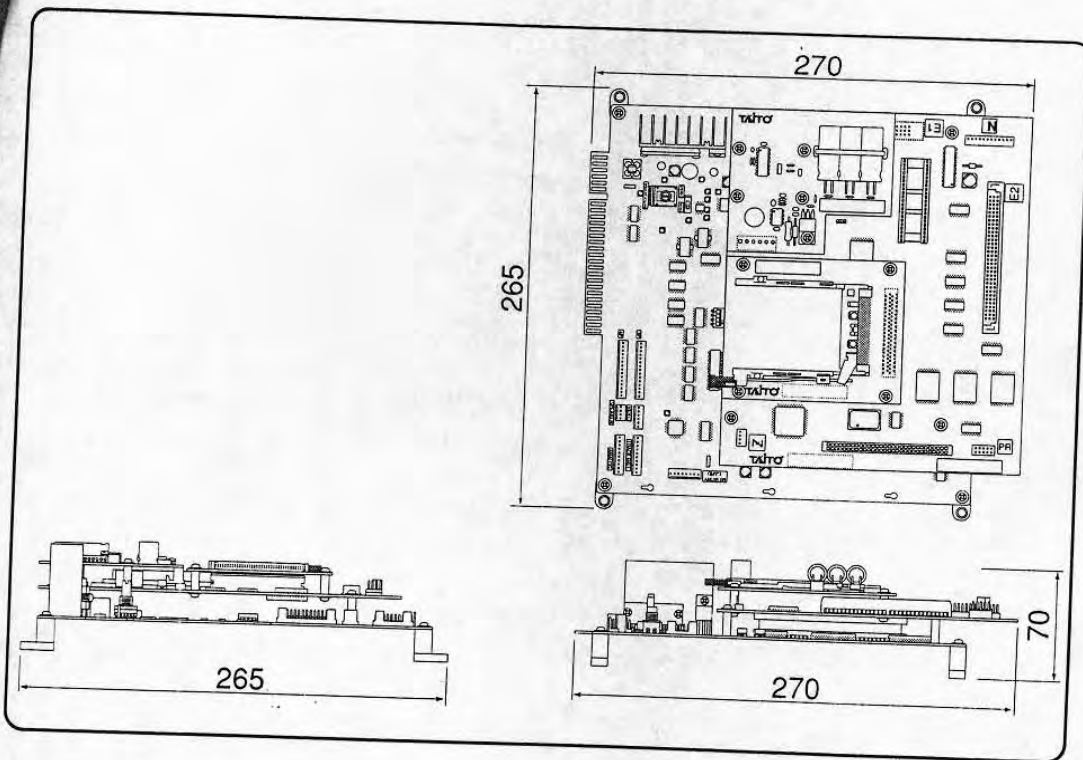
External drawings	Function
	<p>When setting the changeover switch to stereophonic sound, the 2 channel signals from the edge connector emit the sounds of the left and right speakers of the enclosure, respectively. When setting the changeover switch to monophonic sound, the sound signal from the edge connector emits the same sound from the left and right speakers.</p>

● **G card insert slot**

In this system, the game PC board can be started by inserting the G card (game) into the G card insert slot.

Product specification list

Item	Specification data
Rated input voltage (current)	5V DC (4A or more)
	12V DC (2A or more)
Rated consumption power	Approx. 30W
Weight	Approx. 650 (g)
External dimensions	265 (width) × 70 (height) × 270 (depth) m.m



Chapter 1

Installation

■ 1-1. Installation requirements

⚠ CAUTION

Make sure to follow the installation requirements.

Important!

- For how to install the enclosure, see the instruction manual for the enclosure.

Important!

- For details about the G card, see the game instruction manual for the "TAITO G CARD."

Install the mother PC board into an enclosure which meets the following requirements.

- An enclosure in which the game PC board based on the JAMMA standard can be installed.
- An enclosure which is equipped with a switched power supply complying with the requirements of this product specifications.
- Has enough space to install the game PC board.
- Monitor's synchronous frequency is 15 KHz.
- The operation system must meet the following requirements.

Name	Name on the edge connector terminal	
	1P side	2P side
8-directional joy stick (up)	1P CONTROLLE1 UP	2P CONTROLLE1 UP
8-directional joy stick (down)	1P CONTROLLE2 DOWN	2P CONTROLLE2 DOWN
8-directional joy stick (left)	1P CONTROLLE3 LEFT	2P CONTROLLE3 LEFT
8-directional joy stick (right)	1P CONTROLLE4 RIGHT	2P CONTROLLE4 RIGHT
Start button	START SW1	START SW2
Button A	1P CONTROLLE5 PUSH1	2P CONTROLLE5 PUSH1
Button B	1P CONTROLLE6 PUSH2	2P CONTROLLE6 PUSH2
Button C	1P CONTROLLE7 PUSH3	2P CONTROLLE7 PUSH3

■ 1-2. Installation

⚠ CAUTION

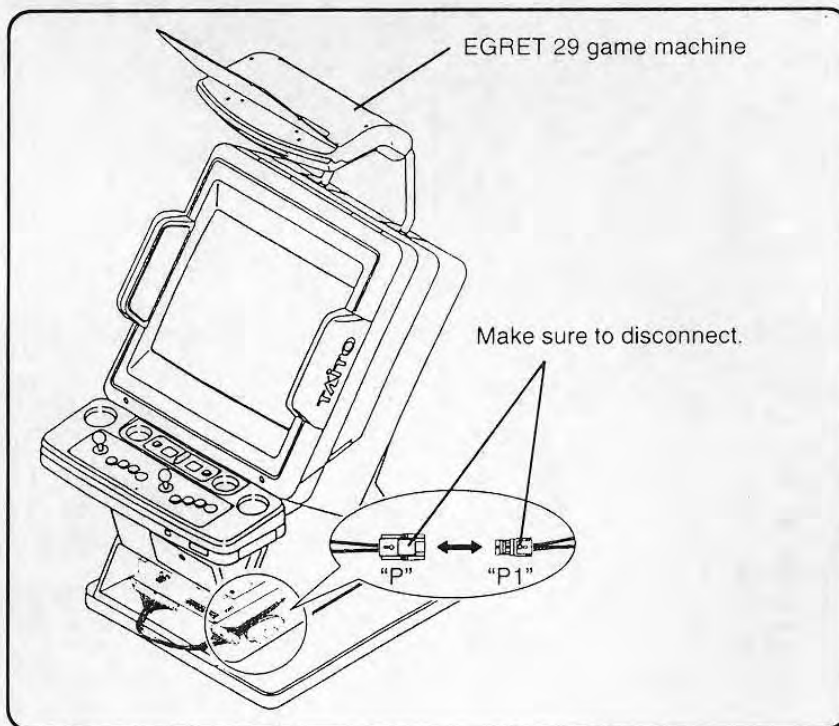
- Turn OFF the power switch of the game machine before installation.
- Before removing the game (mother) PC board from the game machine, turn OFF the power switch.
- Be careful not to injure yourself on the soldered side of the game (mother) PC board during installation.
- Make sure to turn OFF the power switch before pulling out or putting in the connector or the G card from the game (mother) PC board, or changing the DIP switches settings.
- The game (mother) PC board may be damaged by a static electricity, since it consists of precision parts.
- Do not drop the game (mother) PC board, give it a strong shock on, or touch it with wet hands. It may cause a problem or accident.
- Never insert cards other than the G card into the G card insert slot. It may cause a problem or accident.
- Do not drop the G card, give it a strong shock on, or touch or disassemble it with wet hands. It may cause a problem or accident.
- Do not connect P and P1 connectors used for our EGRET 29 game machine. It may cause a problem or accident.

Important!

· For how to install the enclosure, see the instruction manual for the enclosure.

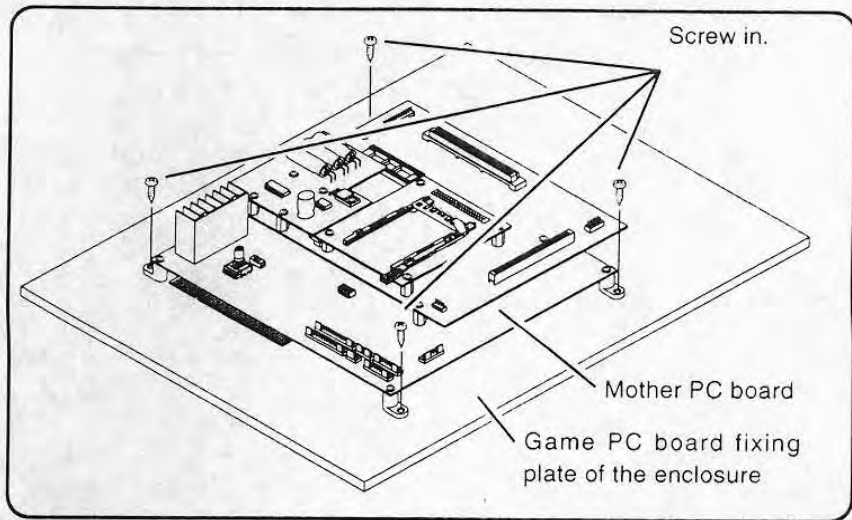
Important!

· For details about the G card, see the game instruction manual for the "TAITO G CARD."



- 1** Turn OFF the power switch of the enclosure.
- 2** Open the game PC board outlet of the enclosure.
- 3** If another game PC board is already installed, remove it.

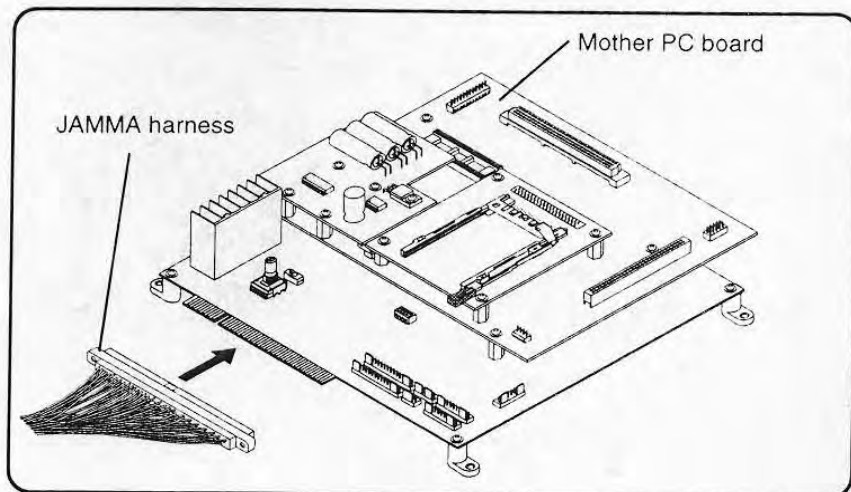
- 4** Install the mother PC board on the game PC board mounting plate of the enclosure.
(When screwing the system PC board on the enclosure, install it by tightening screws at four Res Lock mounting holes.)



- 5** Connect the JAMMA harness inside the enclosure to the mother PC board's edge connector.

Important!

Install the mother PC board so that the harness and other parts will not touch the game PC board.

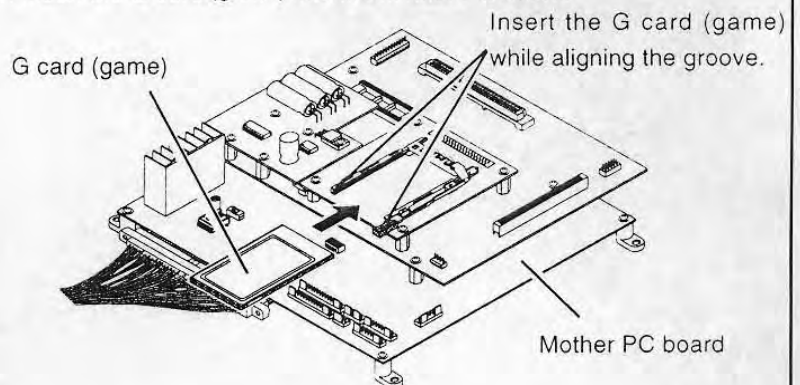


- 6 Install the G card (game) in the mother PC board.
[The G card (game) is not included with this product.]

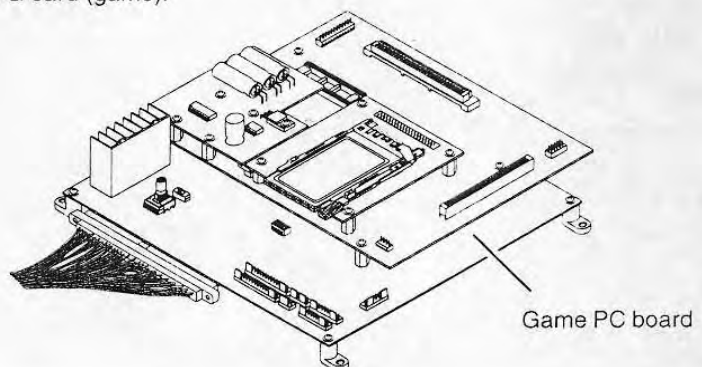
⚠ CAUTION

- Before inserting a G card, make sure to turn OFF the power switch first, and then insert it into the G card insert slot slowly and securely while making sure of the direction. Otherwise, it may cause a problem or accident. Inserting it forcibly may cause a problem.
- Do not make the G card insert slot wet or dirty. It may cause a problem or accident.

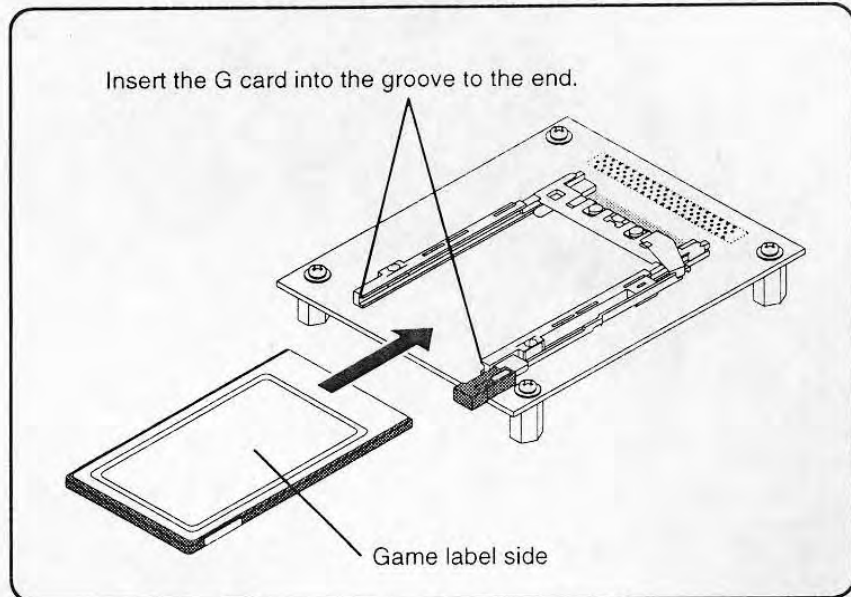
1. Insert the G card (game) into the mother PC board.



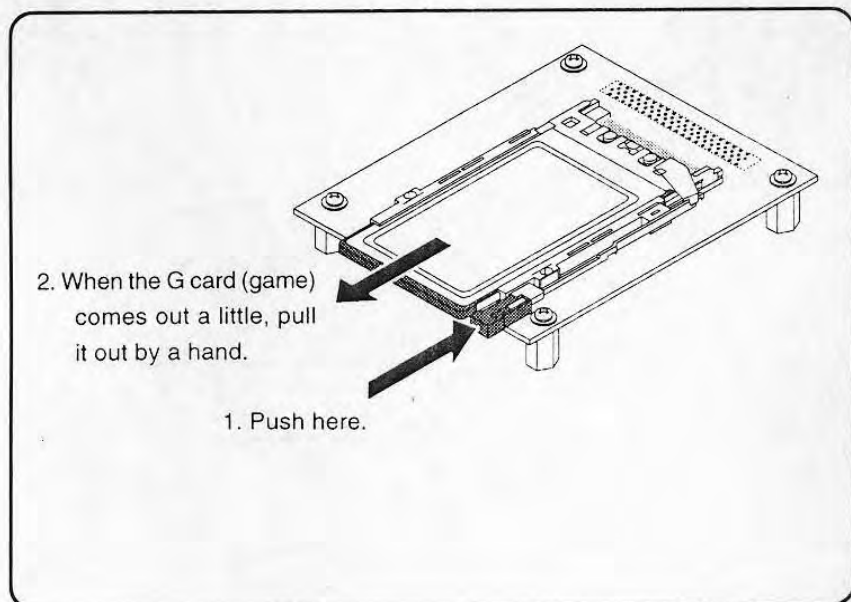
2. The mother PC board will be a game PC board after installing the G card (game).



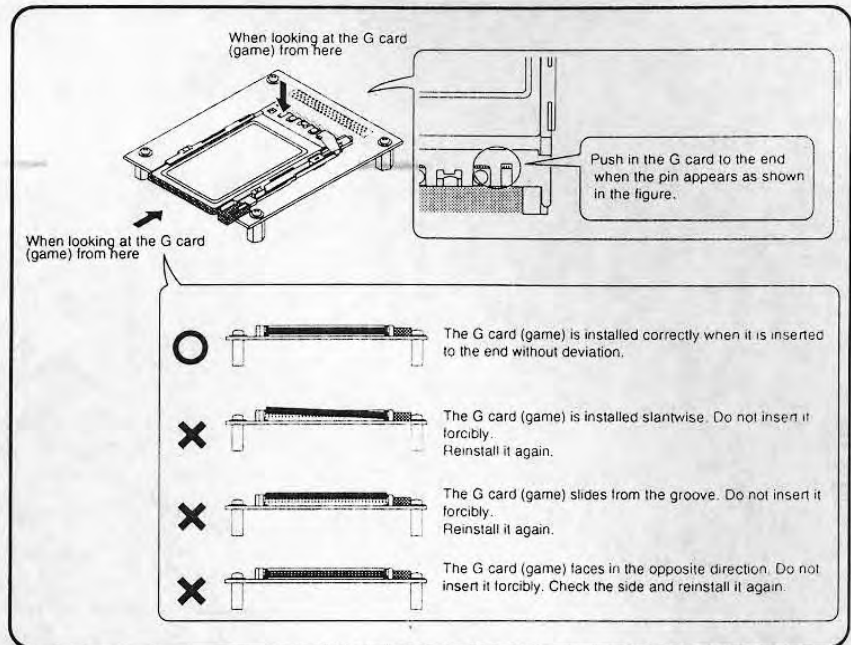
● How to insert the G card (game)



● How to pull out the G card (game)



7 Check that the G card (game) is installed correctly.



8 After installing the G card (game) correctly, turn ON the power switch of the enclosure.
(If the G card is not installed correctly, start the installation again from the beginning.)

9 Adjust the supply power voltage to the game PC board with the reference voltage.

⚠ CAUTION

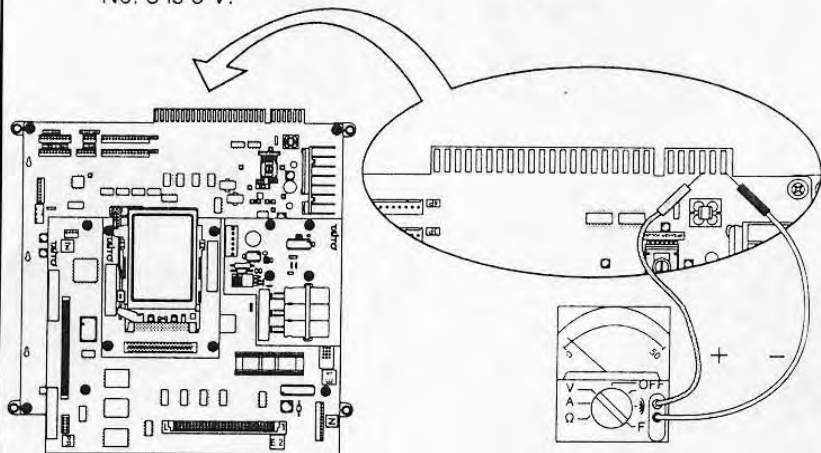
Make sure to adjust the voltage.

! CAUTION

If you adjust the output voltage of the switching regulator higher than the standard value, the game (mother) PC board or the G card may be damaged.

	Edge connector terminal No.		Reference voltage
	+	-	
Parts mounted side	3	1	5V
	4	2	5V
	6	1	12V
	6	2	12V
Soldered side	C	A	5V
	D	B	5V
	F	A	12V
	F	B	12V

Make sure to adjust the power voltage of the switching power supply so that the voltage between edge connector No. 1 and No. 3 is 5 V.



- 10 Turn OFF the power switch of the enclosure.
- 11 Close the game PC board outlet of the enclosure.

■ 2-1. Supplying the power

- 1 Turn OFF the power switch of the enclosure.
- 2 Connect the enclosure power plug to power outlet.
- 3 Turn ON the enclosure power switch.

■ 2-2. How to turn the power OFF

- 1 Turn OFF the enclosure power switch

■ 2-3. Start check

The game will not start if the G card (game) is not installed in the mother PC board.

For details of the start check, see the instruction manual for the G card (game).

[This product does not include the instruction manual for the G card (game).]

Chapter 3 Maintenance

⚠ CAUTION

- Use of parts other than genuine Taito parts in the maintenance will be regarded as unauthorized modification. We will not repair any modified machines. Never modify the machine. It may cause a problem or accident.
- Turn OFF the power switch of the enclosure before performing maintenance.
- Before removing the game (mother) PC board from the enclosure, turn OFF the power switch.
- Maintenance of the game (mother) board should be performed by arcade maintenance men.
- Be careful not to injure yourself on the soldered side of the game (mother) PC board when working with it.
- Make sure to turn OFF the power switch before pulling out or putting in the connector or the G card from the game (mother) PC board, or changing the DIP switches settings.
- The game (mother) PC board may be damaged by a static electricity, since it consists of precision parts.
- Do not drop the game (mother) PC board, give it a strong shock on, or touch it with wet hands. It may cause a problem or accident.

When you do not use the mother PC board, put it in the package box and keep it in safe place.

Do not keep the mother PC board in locations shown below.

- Location where it will be exposed to direct sunlight.
- Location with high humidity.
- Location with much dust.
- Unstable location
- Location subject to vibration, static electricity, or electromagnetic wave.

Chapter 4 Disposal

When disposing of the mother PC board the owner must take responsibility for handling it as industrial waste.

The mother PC board is protected by packing materials when shipped. Follow the instructions of the local authorities when disposing of these packing materials.

Chapter 5 Troubleshooting

5-1. Error message

Screen display	Contents	Treatment
COIN ERROR	<ul style="list-style-type: none">• This error occurs when it takes one second or longer for the coin inserted into the enclosure to pass through the micro-switch inside the rejecter.	Read the instruction manual of the enclosure.
SERVICE SW ERROR	<ul style="list-style-type: none">• The service switch inside the enclosure is turned ON by being caught due to damage.• The harness connected to the service switch is shorted.	Read the instruction manual of the enclosure.
TILT	<ul style="list-style-type: none">• The tilt sensor is functioning.	Read the instruction manual of the enclosure.

5-2. Troubleshooting

Trouble	Possible cause	Treatment
The game PC board repeats resetting.	· The game PC board cannot read the program from the G card (game).	· Check if the G card (game) is inserted securely. (Installation → Page 22)
	· The G card is broken due to shock or static electricity.	· Replace the G card.
	· The power voltage is not appropriate.	· Adjust the switching power voltage. (Installation → Page 23)
	· The edge connector is badly connected.	· Remove dirt on the edge connector terminal side using a clean and soft cloth.
	· The harness is disconnected or shorted.	· Replace the harness.
The sound level is low.	· The sound level setting on the main PC board is set to lower volume.	· Turn the sound level adjusting dial clockwise to full volume. (Name of each parts → Page 11)
	· The sound level on the enclosure side is set to lower volume.	· Turn the sound level adjusting dial inside the enclosure.
The system sometimes resets or the screen stops displaying.	· The power voltage is not appropriate.	· Adjust the switching power voltage. (Installation → Page 23)
	· The enclosure power is connected by the same power line to the vending machine, refrigerator, or air conditioner.	· Change the power supply to the enclosure.
	· The game PC board is broken due to shock or static electricity.	· Replace the game PC board.
No operation is performed.	· The power is not supplied to the power plug of the enclosure.	· Insert the plug after turning OFF the power switch. Then, turn ON the power switch again.
	· The JAMMA harness is not connected correctly.	· Insert the JAMMA harness securely after checking the connector direction.
	· The JAMMA harness is disconnected or shorted.	· Replace the JAMMA harness.
	· The harness specifications are not appropriate.	· Replace it with the correct harness.
	· The power voltage is not appropriate.	· Adjust the switching power voltage. (Installation → Page 23)
	· The game PC board is broken due to shock or static electricity.	· Replace the game PC board.
	· The fuse is blown off.	· Replace the fuse after checking if the harness shorts with the game PC board or other components.

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