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Upright Version Owner's Manual



SEGA AMUSEMENTS USA, INC. MANUAL NO. 999-2306 GAME CODE: CTF

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Now with a new look to make your experience that much easier.

BEFORE USING THE PRODUCT, BE SURE TO READ THE FOLLOWING:

To maintain the safety:

To ensure the safe usage of the product, be sure to read the following before using the product. The following instructions are intended for the users, operators and the personnel in charge of the operation of the product. After carefully reading and sufficiently understanding the warning displays and cautions, handle the product appropriately. Be sure to keep this manual nearby the product or elsewhere convenient for referring to it when necessary.

Herein, explanations which require special attention are enclosed with dual lines. Depending on the potentially hazardous degrees, the terms of WARNING, CAUTION, etc. are used. Be sure to understand the contents of the displays before reading the text.



Indicates that mishandling the product by disregarding this warning will cause a potentially hazardous situation which can result in death or serious injury.



Indicates that mishandling the product by disregarding this caution will cause a slight hazardous situation which can result in personal injury and or material damage.

For the safe usage of the product, the following pictographs are used:



Indicates "HANDLE WITH CARE." In order to protect the human body an equipment, this display is attached to places where the Owner's Manual and or Service Manual should be referred to.

O Perform work in accordance with the instructions herein stated.

Instructions for work are explained by paying attention to the aspect of accident prevention. Failing to perform work as per the instructions can cause accidents. In the case where only those who have technical expertise should perform the work to avoid hazardous situation, the instructions herein state that the serviceman should perform such work.

O Be sure to turn off power before working on the machine.

To prevent electric shock, be sure to turn off power before starting the work in which the worker touches the interior of the product. If the work is to be performed in the power-on status, the Instruction Manual herein always states to that effect.

O Be sure to ground the Earth Terminal (this, however, is not required in the case where a power cord with earth is used).

This product is equipped with the Earth Terminal. When installing the product, Connect the Earth Terminal to the "accurately grounded indoor earth terminal" by using an earth wire. Unless the product is grounded appropriately, the user can be subject to electric shock. After performing repair, etc. for the Control equipment, ensure that the Earth Wire is firmly connected to the Control equipment.

O Ensure that the Power Supply used is equipped with an Earth Leakage Breaker. This product does not incorporate the Earth Leakage Breaker. Using a power supply which is not equipped with the Earth Leakage Breaker can cause a fire when earth leakage occurs.

O Be sure to use fuses which meet the specified rating. (only for the machines which use fuses). Using fuses exceeding the specified rating can cause a fire and electric shock.

O Specification changes (removal of equipment, conversion and addition) not designated by SEGA are not allowed.

The parts of the product include warning labels for safety, covers for personal protection, etc. It is very hazardous to operate the product by removing parts and or modifying the circuits. Should doors, lids and protective parts be damaged or lost, refrain from operating the product, and contact where the product was purchased from or the office herein stated. SEGA shall not be held responsible for any accidents, compensation for damage to a third party, resulting from the specifications not designated by SEGA.

- O Ensure that the product meets the requirements of appropriate Electrical Specifications. Before installing the product, check for Electrical Specifications. SEGA products have a nameplate on which Electrical Specifications are described. Ensure that the product is compatible with the power supply voltage and frequency requirements of the location. Using any Electrical Specifications different from the designated Specifications can cause a fire and electric shock.
- O Install and operate the product in places where appropriate lighting is available, allowing warning labels to be clearly read.

To ensure safety for the customers, labels and printed instructions describing potentially hazardous situation are applied to places where accidents can be caused. Ensure that where the product is operated has sufficient lighting allowing the warnings to be read. If any label is peeled off, apply it again immediately. Please place an order with where the product was purchased from or the office herein stated.

- When handling the Monitor, be very careful. (Applies only to the product w/monitor.) Some of the monitor (TV) parts are subject to high tension voltage. Even after running off power, some portions are still subject to high tension voltage sometimes. Monitor repair and replacement should be performed only be those technical personnel who have knowledge of electricity and technical expertise.
- O Be sure to adjust the monitor (projector) properly. (Applies only to the product w/monitor.) Do not operate the product leaving on-screen flickering or blurring as it is. Using the product with the monitor not properly adjusted may cause dizziness or a headache to an operator, a player, or the customers.
- O When transporting or reselling this product, be sure to attach this manual to the product. In the case where commercially available monitors and printers are used in this product, only the contents relating to this product are explained herein. Some commercially available equipment has functions and reactions not stated in this manual. Read this manual together with the specific Instruction Manual of such equipment.
 - Descriptions herein contained may be subject to improvement changes without notice.
 - The contents described herein are fully prepared with due care. However, should any question arise or errors be found, please contact SEGA.

INSPECTIONS IMMEDIATELY AFTER TRANSPORTING THE PRODUCT TO THE LOCATION.

Normally, at the time of shipment, SEGA products are in a status allowing for usage immediately after transporting to the location. Nevertheless, an irregular situation may occur during transportation. Before turning on power, check the following points to ensure that the product has been transported in a satisfactory status.

- Are there any dented portions or defects (cuts, etc.) on the external surfaces of the cabinet?
- Are Casters and Adjusters, damaged?
- Do the power supply voltage and frequency requirements meet with those of the location?
- Are all wiring connectors correctly and securely connected? Unless connected in the correct direction, connector connections can not be made accurately. Do not insert connectors forcibly.
- \Box Do power cords have cuts and dents?
- \Box Do the fuses used meet specified rating? Is the Circuit Protector in an energized status?
- Are all accessories available?
- □ Can all Doors and Lids be opened with the Accessory keys? Can Doors and Lids be firmly closed?

BEFORE USING THE PRODUCT, BE SURE TO READ THE FOLLOWING:	
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S	PECIFICATIONS
Installation Space	: 44.5 inches width X 71 inches depth
Height	: 84 inches
Width	: 34.5 inches
Length	: 63 inches
Weight	: 400 lbs
Power, maximum current	: 420 W 3.5 A (AC 120V 60 Hz AREA)
MONITOR	: 29 in. Type Display supplied by Sanwa Monitor: 998-0162
	Chassis: 998-0161

INTRODUCTION OF THE OWNERS MANUAL

This Owner's Manual is intended to provide detailed descriptions together with all the necessary information covering the general operation of electronic assemblies, electromechanicals, servicing control, spare parts, etc. as regards the product,

SEGA GHOST SQUAD UPRIGHT TYPE.

This manual is intended for the owners, personnel and managers in charge of operation of the product. Operate the product after carefully reading and sufficiently understanding the instructions. If the product fails to function satisfactorily, non-technical personnel should under no circumstances touch the internal system. Please contact where the product was purchased from.

Use of this product is unlikely to cause physical injuries or damages to property. However, where special attention is required this is indicated by a thick line, the word "IMPORTANT" and its sign in this manual.



Indicates that mishandling the product by disregarding this display can cause the product's intrinsic performance not to be obtained, resulting in malfunctioning.

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☑ PRODUCTION DATE ∅

This SEGA product was produced in the year of:

2005

This signifies that this work was disclosed in 2005.



Non-technical personnel who do not have technical knowledge and expertise should refrain from performing such work that this manual requires the location's maintenance man or a serviceman to carry out, or work which is not explained in this manual. Failing to comply with this instruction can cause a severe accident such as electric shock.

Ensure that parts replacement, servicing & inspections, and troubleshooting are performed by the location's maintenance man or the serviceman. It is instructed herein that particularly hazardous work should be performed by the serviceman who has technical expertise and knowledge.

The location's maintenance man and serviceman are herein defined as follows:

"Location's Maintenance Man" :

Those who have experience in the maintenance of amusement equipment and vending machines, etc., and also participate in the servicing and control of the equipment through such routine work as equipment assembly and installation, servicing and inspections, replacement of units and consumables, etc. within the Amusement Facilities and or locations under the management of the Owner and Owner's Operators of the product.

Activities of Location's Maintenance Man :

Assembly & installation, servicing & inspections, and replacement of units & consumables as regards amusement equipment, vending machines, etc.

Serviceman :

Those who participate in the designing, manufacturing, inspections and maintenance service of the equipment at an amusement equipment manufacturer.

Those who have technical expertise equivalent to that of technical high school graduates as regards electricity, electronics and or mechanical engineering, and daily take part in the servicing & control and repair of amusement equipment.

Serviceman's Activities :

Assembly & installation and repair & adjustments of electrical, electronic and mechanical parts of amusement equipment and vending machines.



1. HANDLING PRECAUTIONS

When installing or inspecting the machine, be very careful of the following points and pay attention to ensure that the player can enjoy the game safely.

Non-compliance with the following points or inappropriate handling running counter to the cautionary matters herein stated can cause personal injury or damage to the machine.



- Before performing work, be sure to turn power off. Performing the work without turning power off can cause an electric shock or short circuit. In the case work should be performed in the status of power on, this manual always states to that effect.
- \boxtimes To avoid electric shock or short circuit, do not plug in or unplug quickly.
- \square To avoid electric shock, do not plug in or unplug with a wet hand.
- ☑ Do not expose Power Cords and Earth Wires on the surface, (floor, passage, etc.). If exposed, the Power Cords and Earth Wires are susceptible to damage. Damaged cords and wires can cause electric shock or short circuit.
- ☑ To avoid causing a fire or electric shock, do not put things on or damage Power Cords.
- When or after installing the product, do not unnecessarily pull the power cord. If damaged, the power cord can cause a fire or electric shock.
- \square In case the power cord is damaged, ask for replacement through where the product was purchased from or the office herein stated. Using the cord as is damaged can cause fire, electric shock or leakage.
- \boxtimes Be sure to perform grounding appropriately. Inappropriate grounding can cause an electric shock.
- Be sure to use fuses meeting specified rating. Using fuses exceeding the specified rating can cause a fire or electric shock.
- \boxtimes Completely make connector connections for IC BD and others. Insufficient insertion can cause an electric shock.
- Specification changes, removal of equipment, conversion and/or addition, not designated by SEGA are not permitted.
- Failure to observe this may cause a fire or an electric shock. Non-compliance with this instruction can have a bad influence upon physical conditions of the players or the lookers-on, or result in injury during play.
- SEGA shall not be held responsible for damage, compensation for damage to a third party, caused by specification changes not designated by SEGA.
- Be sure to perform periodic maintenance inspections herein stated.



For the IC board circuit inspections, only the logic tester is allowed. The use of a multiple-purpose tester is not permitted, so be careful in this regard.

Some parts are the ones designed and manufactured not specifically for this game machine. The manufacturers may discontinue, or change the specifications of, such general-purpose parts. If this is the case, Sega cannot repair or replace a failed game machine whether or not a warranty period has expired.

2. PRECAUTIONS CONCERNING INSTALLATION LOCATION



This product is an indoor game machine. Do not install it outside. Even indoors, avoid installing in places mentioned below so as not to cause a fire, electric shock, injury and or malfunctioning.

- Places subject to rain or water leakage, or places subject to high humidity in the proximity of an indoor swimming pool and or shower, etc.
- Places subject to direct sunlight, or places subject to high temperatures in the proximity of heating units, etc.
- Places filled with inflammable gas or vicinity of highly inflammable/volatile chemicals or hazardous matter.
- \square Dusty places.
- \boxtimes Sloped surfaces.
- Places subject to any type of violent impact.
- ☑ Vicinity of anti-disaster facilities such as fire exits and fire extinguishrs.
- \boxtimes The operating (ambient) temperature range is from 5°C to 30°C.

LIMITATIONS OF USAGE REQUIREMENTS



 \boxtimes Be sure to check the Electrical Specifications.

Ensure that this product is compatible with the location's power supply, voltage and frequency requirements.

A plate describing Electrical Specifications is attached to the product. Non-compliance with the Electrical Specifications can cause a fire and electric shock.

- This product requires the Breaker and Earth Mechanisms as part of the location facilities. Using them in a manner not independent can cause a fire and electric shock.
- \boxtimes Ensure that the indoor wiring for the power supply is rated at 3.5 A or higher (AC single phase 100~120 V area). Non-compliance with the Electrical Specifications can cause a fire and electric shock.
- Be sure to independently use the power supply equipped with the Earth Leakage Breaker. Using a power supply without the Earth Leakage Breaker can cause an outbreak of fire when earth leakage occurs.
- Putting many loads on one electrical outlet can cause generation of heat and a fire resulting from overload.
- ☑ When using an extension cord, ensure that the cord is rated at 3.5 A or higher (AC 100~120 V area). Using a cord rated lower than the specified rating can cause a fire and electric shock.



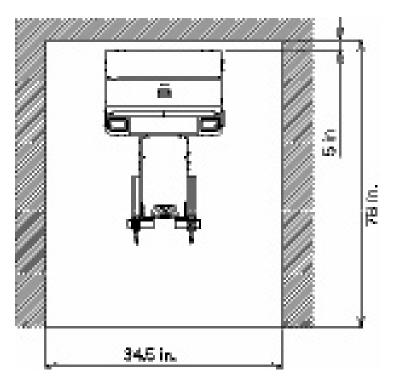
- \boxtimes For the operation of this machine, secure a minimum area of 34.5 in. (W) \times 78 in. (D). In order to prevent injury resulting from the falling down accident during game play, be sure to secure the minimum area for operation.
- Be sure to provide sufficient space so as to allow this product's ventilation fan to function efficiently. To avoid machine malfunctioning and a fire, do not place any obstacles near the ventilation opening.
- SEGA shall not be held responsible for damage, compensation for damage to a third party, resulting from the failure to observe this instruction.



For transporting the machine into the location's building, the minimum necessary dimensions of the opening (of doors, etc.) are 1 m (W) and 1.7 m (H).

Electric current consumption –

MAX. 3.5 A (AC 120 V 60 Hz)



*NOTE: Picture may differ from actual unit.

3. OPERATION

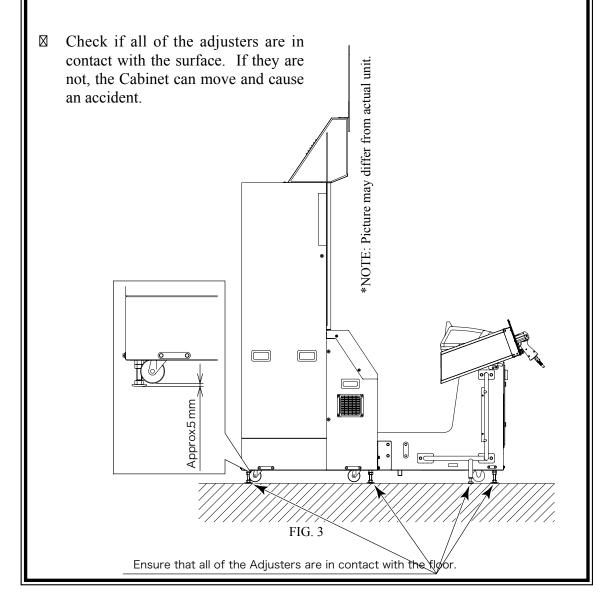
PRECAUTIONS TO BE HEEDED BEFORE STARTING THE OPERATION

To avoid injury and trouble, be sure to constantly give careful attention to the behavior and manner of the visitors and players.



In order to avoid accidents, check the following before starting the operation:

- To ensure maximum safety for the players and the customers, ensure that where the product is operated has sufficient lighting to allow any warnings to be read. Operation under insufficient lighting can cause bodily contact with each other, hitting accident, and or trouble between customers.
- Be sure to perform appropriate adjustment of the monitor (projector). For operation of this machine, do not leave monitor's flickering or deviation as is. Failure to observe this can have a bad influence upon the players' or the customers' physical conditions.
- \boxtimes It is suggested to ensure a space allowing the players who feel sick while playing the game to take a rest.





- Do not put any heavy item on this product. Placing any heavy item on the product can cause a falling down accident or parts damage.
- Do not climb on the product. Climbing on the product can cause falling down accidents. To check the top portion of the product, use a step.
- ☑ To avoid electric shock, check to see if door & cover parts are damaged or omitted.

To avoid electric shock, short circuit and or parts damage, do not put the following items on or in the periphery of the product. Flower vases, flowerpots, cups, water tanks, cosmetics, and receptacles/

containers/vessels containing chemicals and water.



- To avoid injury, be sure to provide sufficient space by considering the potentially crowded situation at the installation location. Insufficient installation space can cause making bodily contact with each other, hitting accidents, and or trouble between customers.
- Every day when cleaning the Control Unit (Shotgun), inspect the Shotgun and make sure that there are no scratches or cracks in the surface, and that the fastening screws are not loose. If the game is played with scratches, cracks or loose screws it can cause injuries to the player or to people nearby.



Players with bare hands directly hold the controller. For operation, it is recommended that the wet towels (paper towels) be provided.



WARNING: HAZARD TO EPILEPTICS.

- A very small portion of the population has a condition which may cause them to experience epileptic seizures or have momentary loss of consciousness when viewing certain kinds of flashing lights or patterns that are present in our daily environment. These persons may experience seizures while watching some kinds of television pictures or playing certain video games. People who have not had any previous seizures may nonetheless have an undetected epileptic condition.
- If you or anyone in your family has experienced symptoms linked to an epileptic condition (e.g., seizures or loss of awareness), immediately consult your physician before using any video games.
- We recommend that parents observe their children while they play video games. If you or your child experience the following symptoms: dizziness, altered vision, eye or muscle twitching, involuntary movements, loss of awareness, disorientation, or convulsions, DISCONTINUE USE IMMEDIATELY and consult your physician.

To avoid injury and trouble, be sure to constantly give careful attention to the behavior and manner of the visitors and players.



- To avoid injury and accidents, those who fall under the following categories are not allowed to play the game.
 - Those who need assistance such as the use of an apparatus when walking.
 - Those who have high blood pressure or a heart problem.
 - Those who have experienced muscle convulsion or loss of consciousness when playing video game, etc.
 - Those who have a trouble in the neck and or spinal cord.
 - Intoxicated persons.
 - Pregnant women or those who are in the likelihood of pregnancy.
 - Persons susceptible to motion sickness.
 - Persons whose act runs counter to the product's warning displays.
- A player who has never been adversely affected by light stimulus might experience dizziness or headache depending on his physical condition when playing the game. Especially, small children can be subject to those conditions. Caution guardians of small children to keep watch on their children during play.
- ☑ Instruct those who feel sick during play to have a medical examination.
- To avoid injury resulting from falling down and electric shock due to spilled drinks, instruct the player not to place heavy items or drinks on the product.
- To avoid electric shock and short circuit, do not allow customers to put hands and fingers or extraneous matter in the openings of the product or small openings in or around the doors.
- To avoid falling down and injury resulting from falling down, immediately stop the customer's leaning against or climbing on the product, etc.
- To avoid electric shock and short circuit, do not allow the customers to unplug the power plug without a justifiable reason.
- Be sure to instruct the adult responsible for children to watch them.
 Children cannot sense danger. Approaching the player during play may result in accidental contact, collisions or falls.

If the Shotgun is pulled from the Gun Holder and dropped on the head it may cause injury.

☑ Caution the player not to wrap the Shotgun cord around his/her wrist or neck, as this can lead to serious injury.



- Immediately stop such violent acts as hitting and kicking the product. Such violent acts can cause parts damage or falling down, resulting in injury due to fragments and falling down.
- To avoid injury resulting from falling down, immediately stop the customer's leaning against or sitting down on the Gun Holder. Such acts can cause parts damage/deformation.
- Be sure to immediately stop any violent play, such as waving the Rifle around or rapid back and forth action, as this may cause injury to the player or people nearby.
- If the player is too close to the Cabinet, the Rifle can strike the Cabinet during play and cause accidents. Be sure to caution the player to maintain a safe distance from the Cabinet while playing.
- When 2 people are playing at the same time, be sure to caution them keep a safe distance from the other player. The Rifle is long and can strike the other player if it is waved carelessly.
- Be sure to caution the player to grip the Rifle firmly while playing. If the Rifle is dropped, it can cause injury to the player.
- Large rings etc., can cause injury to the fingers during play. Be sure to caution the player to remove accessories that may cause accidents before commencing play.
- Be sure to caution players not to have 2 or more people holding 1 Rifle, as this may result in accidental contact or collision.



The Rifles for use on 1P side (left side) and 2P side (right side) are different. Ensure that players do not confuse the right and left side guns when starting play.

4. ASSEMBLING AND INSTALLATION

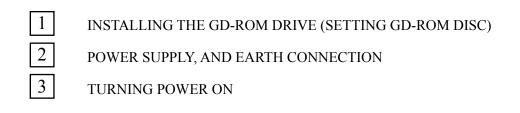


- Perform assembly work by following the procedure herein stated. Failing to comply with the instructions can cause electric shock hazard.
- Perform assembling as per this manual. Since this is a complex machine, erroneous assembling can cause an electric shock, machine damage and or not functioning as per specified performance.
- When assembling, be sure to use plural persons. Depending on the assembly work, there are some cases in which working by one person alone can cause personal injury or parts damage.
- Ensure that connectors are accurately connected. Incomplete connections can cause electric shock hazard.
- Be careful not to damage the wires. Damaged wires may cause electric shock or short circuit or present a fire risk.
- Do not carelessly push the PTV. Pushing the PTV carelessly can cause the PTV to fall down.
- This work should be performed by the Location's Maintenance Man or Serviceman. Performing work by non-technical personnel can cause a severe accident such as electric shock. Failing to comply with this instruction can cause a severe accident such as electric shock to the player during operation.
- Provide sufficient space so that assembling can be performed. Performing work in places with narrow space or low ceiling may cause an accident and assembly work to be difficult.
- To perform work safely and avoid serious accident such as the cabinet's falling down, do not perform work in places where step-like grade differences, a ditch, or slope exist.

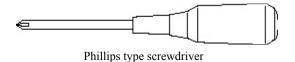


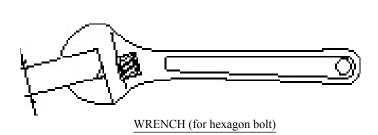
- When handling plastic parts, use care. Do not give a shock or apply excessive load to the fluorescent lamps and plastic parts. Failure to observe this can cause parts damage, resulting in injury due to fragments, cracks and broken pieces.
- To perform work safely and securely, be sure to prepare a step which is in a secure and stable condition. Performing work without using the step can cause violent falling down accidents.
- Make sure that the GD cable connector is inserted parallel to the plug. Improper insertion may cause damage to the connector and present a fire risk.

When carrying out the assembling and installation, follow the following 8-item sequence.



The master key (accessories) in addition to the tools such as a Phillips type screwdriver, wrench, socket wrench and Ratchet Handle are required for the assembly work.





TAMPERPROOF WRENCH T-40 Torx 5/16-18 (1) T-27 Torx 1/4-20 (1) T-15 Torx 8/32 (1) T-10 Torx (1) Tool (Included with Unit)





- Carefully handle the GD-ROM drive so as not to contaminate the disc and the readout lens with stains and dust particles.
- Do not continue to use the scratched GD-ROM disc. The scratched GD-ROM disc may cause the system to malfunction.
- Set the GD-ROM disc onto the GD-ROM drive with its labeled side facing upward.
- The key chip is a precision device. Handle it carefully and avoid exposure to heat, shock and static electricity, as these may cause damage to the device.
- The key chip is contained in the GD-ROM disc case. Always use them as a set.

This section explains how to remove the ASSY MAIN BD from the PTV cabinet, set the GD-ROM disk onto the GD-ROM drive, and install the GD-ROM drive onto the ASSY MAIN BD.

) Unpack the shipping crate, and take out the GD-ROM drive, GD-ROM drive bracket, and GD-ROM disc.





GD DRIVE BRACKET

GD-ROM DRIVE

РНОТО 6. 5 а

2) Use the 4 tapping screws to fix the GD-ROM drive bracket onto the GD-ROM drive. Be careful about a fixing direction.

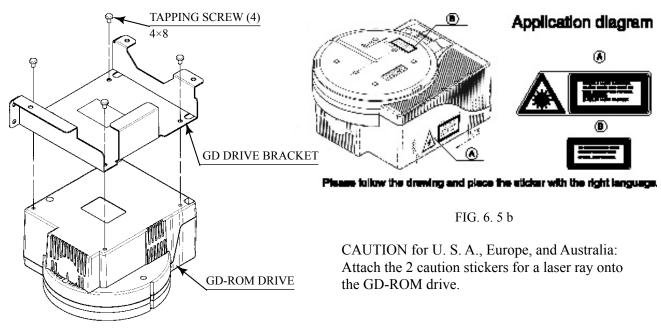


FIG. 6. 5 a

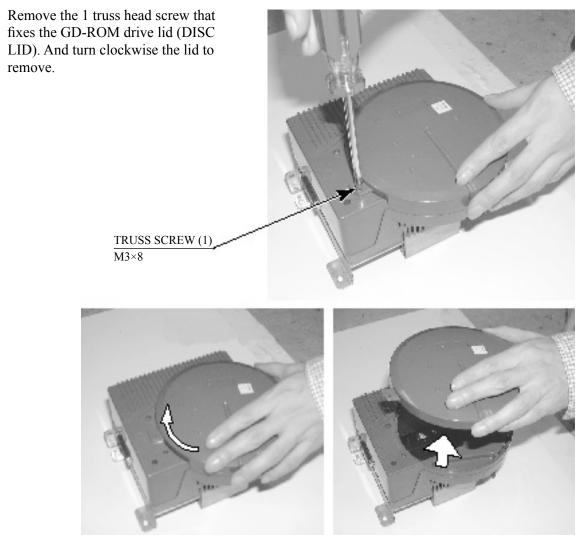
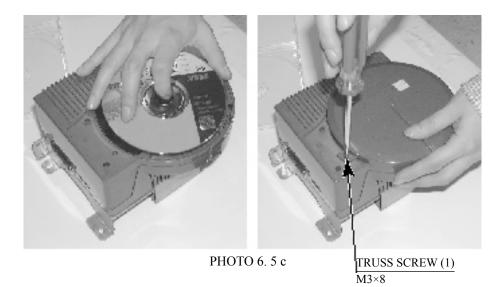


PHOTO 6. 5 b

- (4) Set the GD-ROM disc onto the GD-ROM drive with its labeled side facing upward.
- (5) Return the lid to its original place, and fix it with 1 truss head screw. Be careful not to fasten the screw too tightly.



(3)



 $\overline{7}$

Place the ASSY MAIN BD on a flat vertical surface.

Using the 4 screws, fix the GD-ROM drive onto the ASSY MAIN BD.

 $\frac{\text{SCREW (4)}}{\text{M4} \times 16, \text{ w/flat & spring washers}}$

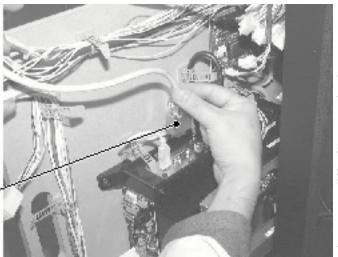
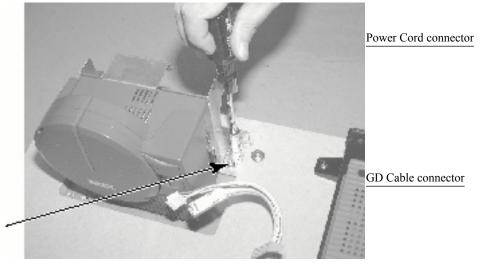


PHOTO 6.5 h

Insert both the GD cable connector (for data communication) and the power cord connector (JST NH6P) into the GD-ROM drive. Be careful about an inserting direction in this instance. Make sure that the connectors are inserted firmly and completely.



РНОТО 6. 5 і



(9)

Insert the Key Chip straight into the hole in the top of the Media Board on the upper part of the Game Board. Carefully check the direction the Key Chip is facing, and push it in as far as it will go.



PHOTO 6.5 k

Attach the accessory stickers to both the Game Board and the Media Board.

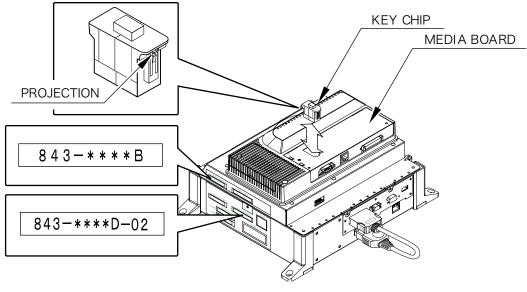


FIG. 6. 5 c

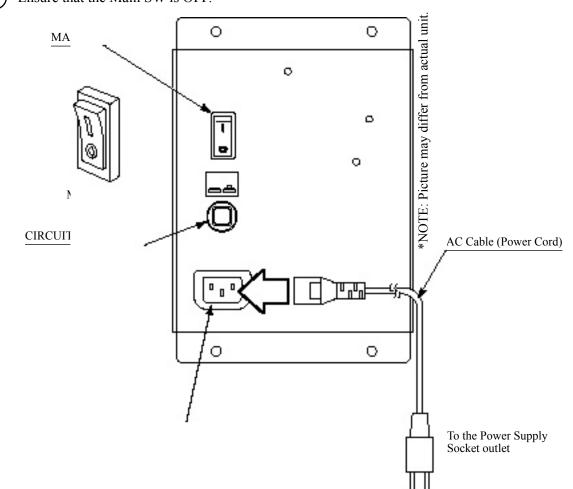


POWER SUPPLY, AND EARTH CONNECTION



- Be sure to independently use the power supply socket outlet equipped with an Earth Leakage Breaker. Using a power supply without an Earth Leakage Breaker can cause a fire when electric leakage occurs.
- Ensure that the "accurately grounded indoor earth terminal" and the earth wire cable are available (except in the case where a power cord plug with earth is used). This product is equipped with the earth terminal. Connect the earth terminal and the indoor earth terminal with the prepared cable. If the grounding work is not performed appropriately, customers can be subjected to an electric shock, and the product's functioning may not be stable.
- Ensure that the power cord and earth wire are not exposed on the surface (passage, etc.). If exposed, they can be caught and are susceptible to damage. If damaged, the cord and wire can cause electric shock and short circuit accidents. Ensure that the wiring position is not in the customer's passage way or the wiring has protective covering.
- After wiring power cord on the floor, be sure to protect the power cord. Exposed power cord is susceptible to damage and causes an electric shoc accident.

The AC Unit is located on one side of Cabinet. The AC Unit has Main SW, Earth Terminal and the Inlet which connects the Power Cord.



1) Ensure that the Main SW is OFF.

TURNING POWER ON

3

Turn on the AC unit's main switch to connect the power. When the power is connected, the fluorescent light in the billboard becomes on. A few seconds later a system startup screen appears and then an advertising screen (plying for a player screen) appears.

Time until displaying an advertising screen is not constant; it varies from some tens of second up to several minutes. This is due to the functional characteristics of the GD-ROM system's rechargeable battery and therefore normal.

When an advertising screen appears, sound is output from the speakers on the right and left of the PTV cabinet. Sound is not output if you have set the function to off.

After the power is disconnected, the system can maintain the data of credit number and ranking. The system cannot maintain, however, the fractional number of coins (not enough for one credit) and the bonus adder count data.



*NOTE: Picture may differ from actual unit. FIG. 6. 7

THE INTERFERENCE PREVENTION WIRING



- In order to prevent electric shock and short circuit hazards, be sure to turn power off before performing work.
- Be careful not to damage the wires. Damaged wires may cause electric shock or short circuit or present a fire risk.
- Do not expose the IC BD, etc. without a good reason. Failure to observe this can cause electric shock hazard or malfunctioning.
- Work should be performed by the Location's Maintenance Man or technical personnel. Performing work by those who do not have technical knowledge and expertise can cause electric shock accident or malfunctioning.

When the game machines of a same or similar type are installed side by side, their sensors may interfere with each other. To reject the interference, follow the procedure below.

The following game machines employ a same or similar type of sensor. If interference happens to the sensors, operation of the games may be mutually disturbed.

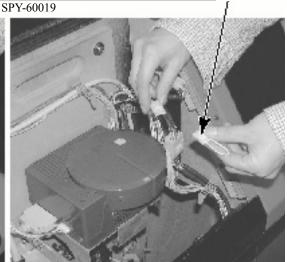
- THE HOUSE OF THE DEAD 2, U/R type, DX type and Super DX type
- THE LOST WORLD, U/R type, DX type and Super DX type
- BRAVE FIRE FIGHTERS
- SAMBA DE AMIGO
- CONFIDENTIAL MISSION, U/R type and DX type
- SHAKATTO TAMBOURINE
- THE MAZE OF THE KINGS, U/R type and DX type

(1) Locate an interference rejection wire inside the cabinet.

If the game machines of a same or similar type are installed side by side, place them alternately (place the machine with an interference rejection wire next to the machine without).

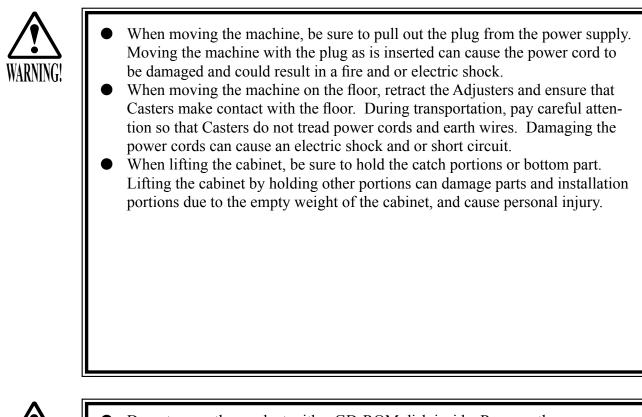


INTERFERENCE PREVENTION WIRING



*NOTE: Picture may differ from actual unit. PHOTO 6. 8

5. PRECAUTIONS TO BE HEEDED WHEN MOVING THE MACHINE





- Do not move the product with a GD-ROM disk inside. Remove the GD-ROM disk before moving the product.
- Failure to observe this instruction may cause the GD-ROM disk and/or GD-ROM drive to be damaged.
- Do not hold or press the plastic parts. Failure to observe this instruction may break the parts, and eventually the broken pieces may cause a personal injury.

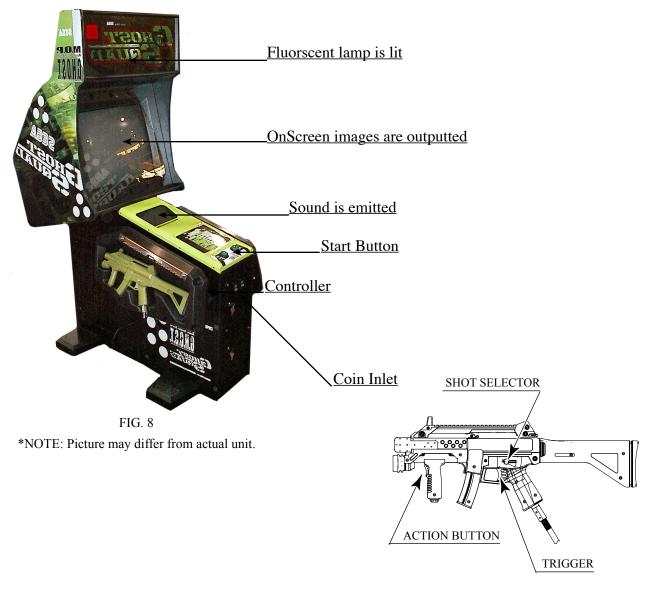


When moving the Cabinet, do not hold or push on the Gun Holder, as this may deform or damage the part.

6. GAME CONTENTS

The following explanations apply to the case the product is functioning satisfactorily. Should there be any moves different from the following contents, some sort of faults may have occurred. Immediately look into the cause of the fault and eliminate the cause thereof to ensure satisfactory operation.

While the power is connected, the fluorescent light in the billboard is on and demonstration images and ranking data are displayed. During this advertising period, sound is also output from the speakers in the center of the cabinet. Sound is not output if you have set the function to off. Each of the right and left start buttons is integrated with a light. The light flashes when coins are inserted sufficiently for a play. The light goes out when the start button is pressed to start the game.



GUN CONTROLLER

This manual explains the game details when used with IC Cards. The game content for cabinets without IC Card Units or games played without the use of an IC Card ("Only without the IC Card") is explained separately as needed.

(1) GAME OUTLINE

The player is a member of the special forces unit, "Ghost Squad", out to suppress vicious terrorists. Each mission contains multiple routes, allowing the player to choose how to proceed. Special events occur throughout the game depending on the route chosen, such as securing hostages or providing friendly cover fire.

This game also supports the use of IC Cards.

Players can enjoy a number of additional features recorded on IC Cards, including character name, score, experience accumulation, changes in rank, item collection, and added mission routes and events. Plus, by using the password displayed following a game, players can also access an Internet Ranking.

[When no IC Card is being used, the recording of player information and Internet Ranking access are not available. Also, play will be limited to certain mission routes and items.]

(2) GAME CONTROLS

The game is controlled with the cabinet START buttons and the provided sub-machinegun-style gun controllers.

Each gun controller is equipped with 3 buttons, the TRIGGER, ACTION and SHOT SELECTOR buttons.

- START BUTTON: Used for starting the game and skipping event descriptions.
- TRIGGER : Used for firing (shooting bullets) and panel selection.
- ACTION BUTTON : Used during events and for skipping demo scenes.
- SHOT SELECTOR : Used to switch between firing modes (single shot, 3-shot burst, full auto).



(3) CHARACTERS

I Alpha Unit

The Alpha Unit are the main characters in the game and are young hot-shot members of "Ghost Squad", an unofficial unit of the anti-terrorist group, "M.O.P." (Multiple-Operation-Program)



I Fellow M.O.P. Members

The Commander provides radio backup and pertinent advice to the Alpha Unit. Also assisting the Alpha Unit in operations are Bravo Unit and Charlie Unit. These two units assist the players in suppressing the terrorist threat.



COMMANNDER

UNIT BRAVO

UNIT CHARLIE

(4) GAME FLOW AND ON-SCREEN DISPLAY

I Card Insertion Screen [Only with the IC Card]

The IC Card Insertion Screen is displayed when starting a game.

Insert an IC Card into the card slot to read stored data.

To play a game without using an IC Card, select the "Start game without card." panel.

IC Card updates are also handled on this screen. Insert an old IC Card together with a new IC Card to transfer play data to the new card.

The game can be started directly after completing the update. (cRefer to the additional update description section.)



IC Card Insertion Screen



Screen following IC Card insertion

l Player Information Display Screen [Only with the IC Card]

After starting a game with an IC Card, the player information read from the card is displayed. On this screen, the following information can be confirmed: Player name, remaining number of card uses, rank, level, experience points, number of plays, top score, number of weapons attained, number of costumes attained, weapon currently being used, costume currently being worn.



Player Information Screen

On this screen, select GAME START to begin the game with the same weapon and costume used in the previous game.

To change the weapon or costume, select the CUSTOMIZE panel to go to the Customize Screen.

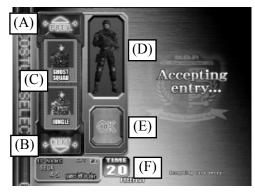
I Customize Screen [Only with the IC Card]

On the Customize Screen, weapons and costumes can be changed.

With sufficient game progress, name change and screen display type selection also become available.



Customize Screen



Customize Select Screen

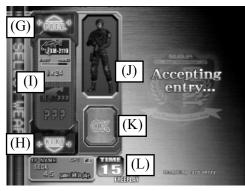
(A)(B) Item Scroll Buttons Scrolls through costume type indicators. Rapid scrolling is possible by keeping it held down.

(C) Selectable Costumes Line up the cursor and pull the trigger to select a costume.

(D) Current Costume Displays the currently selected costume as worn by the character.

(E) OK Button Sets the selected costume and returns to the menu.

(F) Remaining Time The currently selected costume is selected automatically if the remaining time reaches zero.



Select Weapon Screen

(G)(H) Item Scroll Buttons Scrolls through weapon type indicators. Rapid scrolling is possible by keeping it held down.

(I) Selectable Weapons Line up the cursor and pull the trigger to select a weapon.

(J) Current Weapon Displays the currently selected weapon as held by the character.

(K) OK Button Sets the selected weapon and returns to the menu.

(L) Remaining Time The currently selected weapon is selected automatically if the remaining time reaches zero. I Customize Screen [Only without the IC Card]

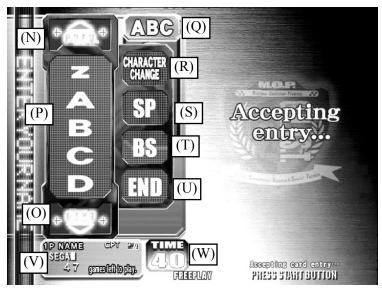
Starting the game without an IC Card will display the following screen and allow weapon and costume selection.



I Name Entry Screen

When starting a game with a new IC Card, the Name Entry Screen is first displayed. A name chosen once can later be changed on the Customize Screen. In both cases, the Name Entry Screen shown below is used.

[When no IC Card is being used, this name will be used to display the score if it makes the cabinet ranking.]



Name Entry Screen

(N)(O) Character Scroll Buttons Scroll through selectable characters (letters). Rapid scrolling is possible by keeping it held down.

(P) Selectable Characters Line up the cursor and pull the trigger to select a character.

(Q) Current Character Type Displays the current name entry character type.

(R) Character Change Button Changes the character type.

(S) Space Button

(T) Backspace Button

(U) END Button Sets the entered name.

(V) Name as Entered

(W) Remaining Time The currently entered name is used if the remaining time reaches zero.

Names up to 16 characters in length can be entered, using alphanumeric and symbol character types.

I Gun Controller Explanation Screen

Exiting the Customize Menu plays the demo explaining how to use the gun controller. This explains the shooting stance, and how to use the SHOT SELECTOR and ACTION button. It is possible to skip this explanation with the START button.

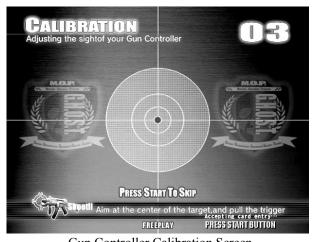


Gun Controller Explanation Screen

I Gun Controller Calibration Screen

If the CALIBRATION setting in the game Test Mode is turned on, this screen is displayed before starting the game.

Holding the gun controller correctly, aim at the target bulls-eye and pull the trigger to calibrate the gun. Press the START button to exit the Calibration Screen without waiting for the time limit to run out.



Gun Controller Calibration Screen

I Mission Select Screen

On this screen, the player selects which mission to play from 3 available missions.

Playing one mission all the way to the end displays this screen once again, allowing the player to select another mission.

A mission played once cannot be played again in the same game.



Mission Select Screen

The Mission Level is displayed on the Mission Select Screen.

Using an IC Card, the Mission Level will increase each time the boss is defeated.

To replay missions at a lower level, line up the curser with the Mission Level display and push the ACTION button. By changing the level, it is possible to play at the desired level.

[When no IC Card is being used, only Mission Level 1 to 4 can be selected from the beginning, and the Mission Achievement Rate is not displayed. There are no differences in game characteristics such as difficulty, game play changes, or the number of game events.]

I In-game Display

During game play, information such as life and remaining ammunition is displayed.



(1) Life (remaining health) : The color will grow red as it nears zero.

(2) GS Meter	: Special Points accumulated during the game are shown here.
(3) Player Information	: Player name and ranking insignia are displayed. [Only with
	the IC Card]
(4) Score	: Points accumulated during play.
(5) Mission Level	: Level of the current mission.
(6) Terrorist	: Find and suppress!
(7) Fellow Troops	: Members of the "Ghost Squad".
(8) Correspondence	: Support requests from fellow troops, or advice from the
	Commander appears here.
(9) Firing Mode	: Selectable firing modes and the currently selected firing mode
	are displayed.
(10) Weapon Information	: Equipped weapon and remaining magazine ammunition are
	displayed.
(11) Auxiliary Item	: Any currently effective auxiliary items are displayed.

I Mission Results Screen [Only with the IC Card]

After either successfully completing a single mission or dying partway, the Mission Result Screen is displayed.

Mission information, including the route taken or event results, can be confirmed on this screen. This screen also displays a notification if the Mission Level has increased.

JAISSION	LEVEL 2 ENTRANCE	RESTAURANT	OUT OF DOORS
	Badk U.S		
START	Travillisan	CLEARED	
MISSION-LEVEL	SUCCESS	2999	(Eller)
Lv. 3	History Hostory	ang KOTEL	
	GLEA	acii ana ana ana ana ana ana ana ana ana a	SUCCESS
CLEARED	Sinc		COLUMN T
46%	- 22		
		and the second se	pting card entry

- Box showing "???" : Event to debut at a higher Mission Level.
- Gray, labeled box : Not yet played despite a sufficient Mission Level.
- Blue box : Already played, but not cleared.
- Green box : Cleared sometime in the past.

I Game Results [Only with the IC Card]

Playing a game with an IC Card allows viewing of the game's play results following the game. Any notifications of leveling up, rank promotion, obtaining weapons/costumes, and so on, are displayed on this screen.



Game Results Screen



Nice job! You have been promoted!

(5) GAME RULES AND GAMEPLAY

<u>Life</u>

During play, the player's life is displayed at the top part of the screen. Life is diminished by enemy attack or accidental fire on hostages. Once the player's life runs out, play stops.

The amount of life to start a game with can be configured in Test Mode settings. Changing life settings will not affect the length of the life gauge. Instead, the amount of life lost when receiving damage changes, effectively varying the number of sustainable enemy hits. □ Refer to the "LIFE" setting of the "GAME ASSIGNMENTS" section in "Test Mode". □

Continue and Game Over

The option to "Continue" is available when the player's life runs out. The START button can be used to continue the game, as long as there are credits remaining. When using an IC Card, each "Continue" deducts from the number of remaining card uses.

Not continuing results in "Game Over".

When using an IC Card, game results are displayed following the game, showing experience increases, rank promotions, and so on.

GS Meter

The GS Meter measures the value of the player's special force performance. For example, pulling off a special shot ("GOOD SHOT", "QUICK SHOT", etc.) or successfully completing an event raises the meter, while shooting fellow troops or hostages lowers the meter. When the GS Meter reaches its maximum level, the current weapon receives an upgrade. Building up the GS Meter also increases the amount of experience gained following a game.

Reload

When a magazine is empty, reloading is executed by simply aiming the gun controller outside of the screen.

At that time it is not necessary to press the trigger or any other buttons.

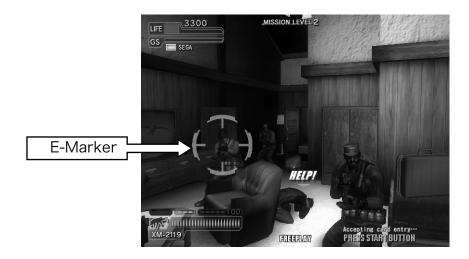
The time it takes between reloading and being able to shoot again varies between weapons.

E-Marker

When discovered, the terrorists commence fire upon the player.

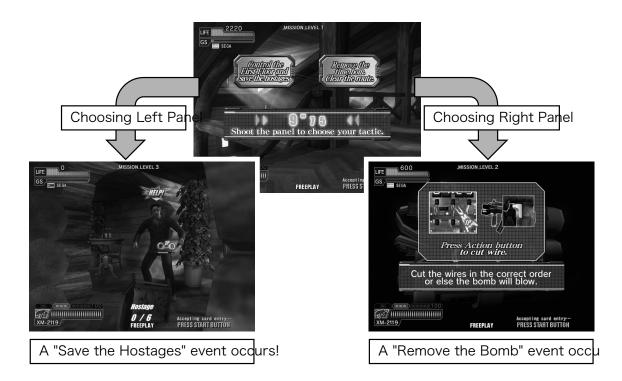
However, not all shots result in injury. An "E-Marker" will be displayed on any enemy whose shots will inflict damage, serving as a warning to the player.

When under fire from multiple enemies, first defeating enemies marked with an E-Marker should help the player avoid damage.

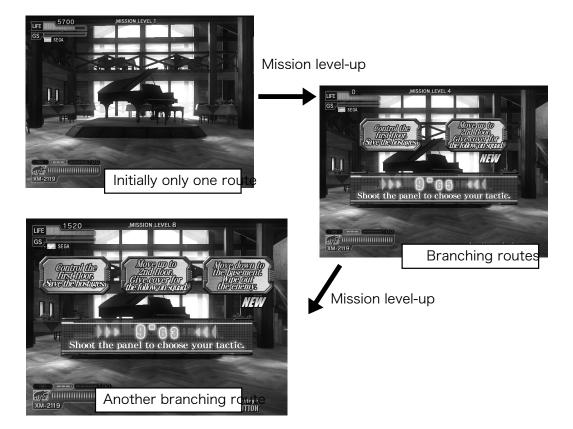


Tactic Selection

Proceeding through the game, "Tactic Selection" panels (as shown below) will appear. The mission route will vary greatly depending on which panel is chosen.



The number of selectable tactics will increase along with the Mission Level. Also, a "NEW" label will be displayed on any newly appearing tactics panels. [When no IC Card is being used, the number of Tactics Selection panels will not increase.]



Events (Special Operations)

Besides normal terrorist suppression, this game includes additional "events", such as bomb removal or securing hostages.

A certain number of events are initially open for play, but by using an IC Card and leveling-up missions, a large number of additional events become available.

Some events allow use of specialized weapons.

For example, when attacking the enemy from a distance in a Sniper event, the weapon temporarily changes to a sniper rifle.



Auxiliary Items

Auxiliary items appear in certain situations during the game.

There are two types of auxiliary items—items that are put to use and disappear immediately after picking up, and those that are stocked and continue to be effective over time. The latter type can be used only one at a time.

Some auxiliary items can be taken advantage of only when combined with certain weapons. For example, the "Compensator" is effective only when using weapons that produce a bullet spread effect.

The auxiliary items appearing in this game consist of the following 7 types.

	First-Aid Kit	: Restores 1 life unit.
-	Dot Sight	: Displays the gun's sight reticule as an illuminated point.
5	Hi-cap Magazine	: Doubles magazine capacity.
	Compensator	: Eliminates bullet spread effects.
	Body Armor I	: Halves the amount of damage taken for up to 2 hits.
0	Body Armor II	: Halves the amount of damage taken for up to 4 hits.
章	Medal	: Increases experience points acquired following the game. [When no IC Card is being used, it boosts the GS Meter.]

Experience Points

Experience points are accumulated during game play when playing with an IC Card.

The amount of experience points accumulated during play are determined by score, GS Meter level, the number of medals, and game progress. These points are awarded to the player on the Game Results Screen following the game.

The player is leveled up after reaching a certain experience level. Depending on the level increase, players are rewarded with promotions and new weapons. Any new weapons can be used from the next play.

[When no IC Card is being used, there are no experience points.]

Rank and Promotion

Ranks serve as a comprehensive evaluation of the player's ability.

If certain conditions are met when leveling up, the player's rank increases by a level. This is referred to as "promotion".

Promotions open up new costumes and high-level, rare weapons that can be used from the next play. [When no IC Card is being used, the rank insignia is decided by the player's score.]

Costumes

This game has 14 different costumes.

Initially only 2 are available ("GHOST SQUAD" and "JUNGLE"), but that number increases with further play. The chosen costume can be viewed during in-game cut scenes.

Costumes have no direct effect on damage, score, or other game content.

[When no IC Card is being used, costumes are chosen from the 4 types shown below.]



<u>Weapons</u>

As the player's level and rank go up, new weapons become available.

After a weapon has been acquired, it can be selected from the Customize Screen before starting a game. Once equipped, however, a weapon cannot be changed during play.

This game has 25 different types of weapons, each with varying characteristics and auxiliary weapon compatibility.

- Machinegun class : A typical weapon, capable of rapid-fire shooting.
--

- Shotgun class : Blasts covering a wide area, a single shot is capable of taking out multiple enemies.
- Handgun class : Requires a high learning curve, suitable for expert players.
- Rifle class : Capable of piercing walls and obstacles, can take out hidden enemies.
- Others : Weapons not fitting in any of the above categories.

[When no IC Card is being used, weapons are chosen from the 4 shown below before a game.]

"XM-2119" : A standard sub-machinegun. Can toggle between Semi-auto, 3-Shot Burst, and Full-auto firing modes to best match the situation. There is, however, an

ammunition restriction on Full-auto fire.

"TK1B" : A powerful machinegun. It has high firepower and no Full-auto ammunition restriction. It is also has penetration power, making hidden enemies vulnerable to

fire. Its lack of accuracy from bullet spread is its main weakness, along with a long reload time.

"P44M" : This handgun has no rapid-fire ability, but proves reliable in targeting enemies. It is extremely powerful and capable of penetration.

"M4E" : A shotgun, capable of hitting multiple enemies with a single shot. Despite its power, the danger of hitting hostages or fellow troops with friendly fire warrants caution.

its

Mid-game Entry

It is possible for an additional player to join later, even if a player is in the middle of play. If the necessary number of credits has been inserted, a message (as shown below) is displayed on the bottom part of the screen.



Pressing the START button at this point will commence entry without the use of an IC Card. By first inserting a card before pressing the START button, play will commence using that IC Card. In that case, the player will be equipped with the same weapon and costume used in the previous play.

Mid-game Termination

In a 2-player game, if only 1 player (using an IC Card) ends the game, that player's information (experience points, rank, high score, etc.) is updated even though the Game Results Screen is NOT displayed.

Details can be confirmed on the Player Data Screen before starting the next game.

(6) IC CARDS [ONLY WITH THE IC CARD]

I Number of Uses

The number of uses per IC Card is 100.

This number includes expenditure for starting or continuing games.

An IC Card with 0 remaining uses cannot be used to start a game.

However, if the remaining uses reaches 0 during play, it is possible to continue a game. A game can be continued until either the player ends the game (decides not to continue after running out of life) or all missions have been completed.

I Updating (Data Transfer)

If an IC Card's remaining uses reaches 0, its data can be transferred to a new IC Card, allowing another 100 uses. This operation is referred to as "updating".

Updating is handled on the IC Card Insertion Screen when beginning a game.

Inserting the old card and a new, unused card together at the same time while this screen is displayed transfers saved data to the new card.

It is possible to update any card, regardless of the number of remaining uses.

However, even if the old card has remaining uses, the new, updated IC Card will always start with 100 remaining uses.

I Card Recovery

If the data stored on an IC Card happens to be damaged, it may be possible to restore that data using Card Recovery.

To enter Card Recovery, on the advertisement screen, press the TEST button while holding down the PLAYER 1 and PLAYER 2 START buttons at the same time.

In Card Recovery, use the PLAYER 2 START button to move between panels and the PLAYER 1 START button to select. Selecting the "Try to restore your card." panel begins automatic data restoration.

Be warned that Card Recovery is not always successful in restoring data.

If recovery fails, the error message, "This card cannot be initialized." is displayed.



Card Recovery



Failed recovery error message

7. EXPLANATION OF TEST AND DATA DISPLAY

By operating the switch unit, periodically perform the tests and data check. When installing the machine initially or collecting cash, or when the machine does not function correctly, perform checking in accordance with the explanations given in this section.

The following shows tests and modes that should be utilized as applicable.

This product's basic system consists of the Chihiro game board and the GD-ROM drive. The system enables you to play several games one after the other just by changing a GD-ROM disc that is to be set on the GD-ROM drive.

The product supports, therefore, the following 2 test modes:

(1) System test mode for an automatic self-diagnostic test (generally used by every product that contains the basic system) and a coin assignment (specifically used by this product) and
 (2) Game test mode for testing the input/output control devices and setting the difficulty level (specifically used by this product).

TABLE 9 EXPLANATION OF TEST MODE

ITEMS	DESCRIPTION			
INSTALLATION OF MACHINE	 When the machine is installed, perform the following: 1. Check to ensure each is the standard setting at shipment. 2. Check each Input equipment in the INPUT TEST mode. 3. Check each Output equipment in the OUTPUT TEST mode. 4. Test on-IC-Board IC's in the self-test mode. 			
MEMORY TEST	This test is automatically executed by selecting RAM TEST, or ROM BOARD TEST in the Menu mode.			
PERIODIC SERVICING	 Periodically perform the following: 1. MEMORY TEST 2. Ascertain each setting. 3. To test each Input equipment in the INPUT TEST mode. 4. To test each Output equipment in the OUTPUT TEST mode. 			
CONTROL SYSTEM	 To check each Input equipment in the INPUT TEST mode. Adjust or replace each Input equipment. If the problem still remains unsolved, check each equipment's mechanism movements. 			
MONITOR	In the Monitor Adjustment mode, check to see if Monitor (Projec- tor) adjustments are appropriate.			
IC BOARD	 MEMORY TEST In the SOUND TEST mode, check the sound related ROMs. 			
DATA CHECK	Check such data as game play time and histogram to adjust the difficulty level, etc.			



Never touch places other than those specified. Touching places not specified can cause electric shock and short circuit accidents.



Adjust the sound to the optimum volume, taking into consideration the environmental requirements of the installation location.
 Removing the Coin Meter circuitry renders the game inoperable.

SWITCH UNIT

Open the coin chute door, and the switch unit shown will appear. The functioning of each SW is as follows:

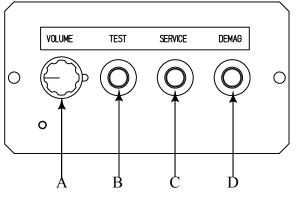


FIG. 9. 1 a SWITCH UNIT

- A SPEAKER VOLUME SWITCH: Adjusts sound volume for all of the machines' Speakers. (VOLUME)
- B TEST BUTTON: (TEST)

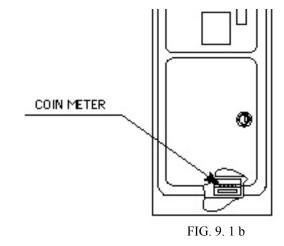
For the handling of the test button, refer to the following pages.

Gives credits without registering on the coin meter.

- C SERVICE BUTTON: (SERVICE)
- D DEMAGNETIZER BUTTON: (DEMAG)
- Eliminates the on-screen color unevenness due to magnetization of CRT. First use this SW before performing the monitor's color adjustment.

COIN METER

Open the Cashbox Door by using the key to have the Coin Meter appear underneath the Cashbox.





- Any settings that are changed by users during TEST MODE are saved upon exiting TEST MODE with the EXIT command in the SYSTEM MENU. If the unit is powered off prior to exiting, changes to settings will not take effect.
- You may not enter GAME TEST MODE while the unit is reading from or checking the GD-ROM. If error messages are displayed when exiting TEST MODE, you should power the unit off and on again.
- ☑ In the manual for this product, "Media Board" and "DIMM" are one and the same.
- ☑ Use with the specified settings. If settings other than those specified are used, inappropriate operations or malfunction may occur.

A. SYSTEM TEST MENU MODE

System Test Mode can be used to check that the main circuit operations are correct, adjust Monitor color, and perform coin/credit settings.

However, this product can only be used with the settings shown below.

- SOUND TEST - OUTPUT TYPE: STEREO
- COIN ASSIGNMENTSCOIN CHUTE TYPE: COMMON
 - SERVICE TYPE: COMMON
- NETWORK SETTING (MEDIA)
 NETWORK TYPE: NONE
- Press the TEST Button after powering on the unit to display the following SYSTEM MENU.

SYSTEM MENU
MEDIA BOARD TEST
SYSTEM INFORMATION
JVS TEST
SOUND TEST
C.R.T. TEST
COIN ASSIGNMENTS
CLOCK SETTING
NETWORK SETTING(CORE)
NETWORK SETTING(MEDIA)
ENTER GAME TEST
**** ********************************
EXIT
SELECT WITH SERVICE BUTTON AND PRESS TEST BUTTON

- \square Press the SERVICE Button to move the cursor to the desired test item.
- \boxtimes Move the cursor to the desired item and press the TEST Button to display each test screen.
- Move the cursor to ENTER GAME TEST and press the TEST Button to enter the individual test menus for each game. Refer to "9-3 GAME TEST MODE".
- ☑ When testing is complete, move the cursor to EXIT and press the TEST Button. The game advertisement screen should be displayed.

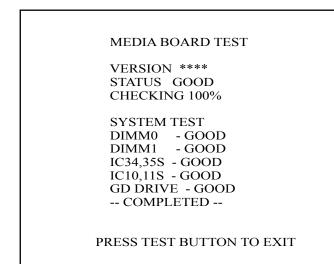


Powering off the system during the MEDIA BOARD TEST with a DIMM BOARD will erase the game programme data. It may be necessary to reload the data.

Always wait for the test to complete before attempting to exit.

MEDIA BOARD TEST is used to check the memory and IC on the MEDIA BOARD connected to the Chihiro. Test screens and test times may differ depending on the type of MEDIA BOARD connected to the unit.

☑ The following is the MEDIA BOARD TEST screen for a unit with a DIMM BOARD.



- MEDIA BOARD TEST begins immediately upon entering this test mode.
- ☑ If "GOOD" is displayed to the right of each item, the MEDIA BOARD components are functioning properly.
- After the test is complete, move the cursor to EXIT and press the TEST Button to return to the SYSTEM MENU screen.

Use SYSTEM INFORMATION to check version and other information for system programmes. Screens may differ depending on the type of MEDIA BOARD connected to the unit. ☑ The following is the SYSTEM INFORMATION screen for a unit with a DIMM BOARD.

	-
SYSTEM INFORMATION	
MAIN BOARD REGION **** BOOT VERSION **** QC FIRM VERSION **** SC FIRM VERSION **** SERIAL NO. ***********	(A) (B) (B) (B) (C)
MEDIA BOARD DIMM BOARD + GDROM MEMORY SIZE 512MB FIRM VERSION **** SERIAL NO. **********	(D) (E) (F) (G)
PRESS TEST BUTTON TO EXIT	

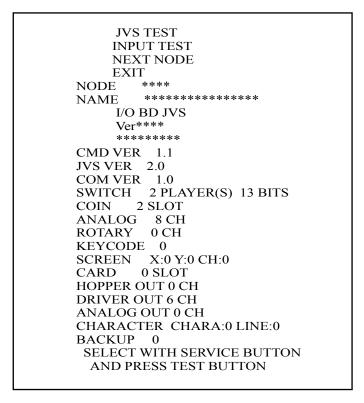
Press the TEST Button to return to the SYSTEM MENU screen.

- (A) REGION The COUNTRY CODE of the MAIN BOARD.
- (B) BOOT VERSION, QC FIRM VERSION, SC FIRM VERSION Version information for the MAIN BOARD system programmes.
- (C) SERIAL NO. Serial number of the MAIN BOARD.
- (D) DIMM BOARD + GDROM Type of MEDIA BOARD. This example shows a DIMM BOARD with a GD-ROM DRIVE connected.
- (E) MEMORY SIZE Capacity of DIMM memory installed on the DIMM BOARD.
- (F) FIRM VERSION Version information for the DIMM BOARD system programme.
- (G) SERIAL NO. Serial number of the DIMM BOARD.

JVS TEST is used to verify the specs of the I/O BOARD connected to the Chihiro and to run input tests.

I/O BOARD specs are displayed initially.

Screens may differ depending on the type of I/O BOARD connected to the unit.

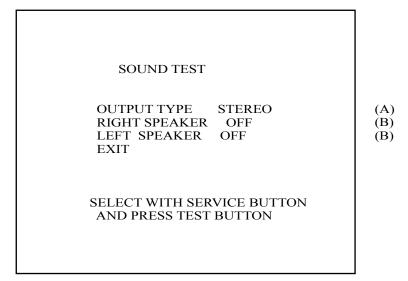


- \square Use the SERVICE Button to move the cursor to the desired test item.
- Move the cursor to INPUT TEST and press the TEST Button to enter the INPUT TEST screen for the I/O BOARD currently displayed.
- ☑ When 2 or more I/O BOARDS are connected, move the cursor to NEXT NODE and press the TEST Button to enter the test screen for the next I/O BOARD. The lower the NODE number, the further away the node is from the Chihiro.
- ☑ Move the cursor to EXIT and press the TEST Button to return to the SYSTEM MENU screen.

JVS TEST INPUT TEST	
NODE 1/1 SYSTEM 00 PLAYER 1 0000 PLAYER 2 0000 COIN 1 0000 COIN 2 0000 ANALOG 1 0000 ANALOG 2 0000 ANALOG 3 0000 ANALOG 4 0000 ANALOG 5 0000 ANALOG 6 0000 ANALOG 7 0000 ANALOG 7 0000	(A) (A) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C)
PRESS TEST AND SERVICE BUTTON TO EXIT	

- \boxtimes On-screen values change according to the input from switches and the volume.
 - (A) SYSTEM, PLAYER Values change with input from control panel/other switches.
 - (B) COIN Increases with input from the COIN SWITCH. The count is cleared when exiting TEST MODE.
 - (C) ANALOG Displays analog values from "0000" to "FFFF".
- ☑ Press the SERVICE and TEST Buttons simultaneously to return to the JVS TEST main screen.

Use SOUND TEST to test sound output and to select the stereo/mono/surround setting.



- \boxtimes Use the SERVICE Button to move the cursor to the desired test item.
- \boxtimes Press the TEST Button to enter the selected item.
 - (A) OUTPUT TYPE(STEREO, MONO, SURROUND) Select the sound output from the I/O PANEL audio output interface setting among STEREO, MONO and SURROUND.
 - (B) RIGHT/LEFT SPEAKER(ON, OFF) When set to "ON", the test sends a beep to each audio output interface. Only the word "SPEAKER" is displayed when the OUTPUT TYPE is set to "MONO", and when set to "ON", the test sends the same beep to both the left/right audio output interfaces. To test surround output, it is necessary to use a separate Audio Amp, and receive signal from a terminal not in use at the time of shipping. Note: Not available with this product.
- ☑ Move the cursor to EXIT and press the TEST Button to return to the SYSTEM MENU screen.

F. C.R.T. TEST

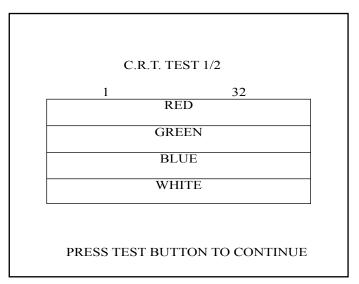
Use the C.R.T. TEST to adjust monitor colours and verify screen size.

COLOUR CHECK Screen

Monitor COLOUR CHECK screen is displayed initially.

Each of the colours (red, green and blue) is darkest at the far left and gets progressively lighter (32 steps) towards the right.

Monitor brightness is set correctly if the white colour bar is black at the left edge and white at the right edge.



 \boxtimes Press the TEST Button to proceed to the next page.

SIZE CHECK Screen

					C.	R.7	Г. Т	ΈS	Т 2	2/2					
		PR	ES	SS 7	ГE	ST	ВU	JTT	O	NΤ	O	EX	IT		

- Adjust the CHECK GRID so that the entire GRID is displayed on the screen.
- ☑ Press the TEST Button to return to the SYSTEM MENU screen.

Use COIN ASSIGNMENTS to set the credit rate for each coin inserted.

- \boxtimes Use the SERVICE Button to move the cursor to the desired test item.
- ☑ Press the TEST Button to change the setting or to open the detailed settings.
- ☑ Move the cursor to EXIT and press the TEST Button to return to the SYSTEM MENU screen.

COIN ASSIGNMENTS	
COIN CHUTE TYPE COMMON SERVICE TYPE COMMON	(A) (B)
COIN CHUTE #1 COIN TO CREDIT RATE 1 COIN(S) COUNT AS 1 CREDIT(S)	(C)
COIN CHUTE #2 COIN TO CREDIT RATE 1 COIN(S) COUNT AS 1 CREDIT(S)	(C)
DETAIL SETTING	(D)
GAME COST SETTING	(H)
ØEXIT	
SELECT WITH SERVICE BUTTON AND PRESS TEST BUTTON	

COIN CHUTE TYPE...COMMON

COIN ASSIGNMENTS

COIN CHUTE TYPE INDIVIDUAL SERVICE TYPE INDIVIDUAL

COIN CHUTE #1 COIN TO CREDIT RATE 1 COIN(S) COUNT AS 1 CREDIT(S)

DETAIL SETTING GAME COST SETTING ⊠EXIT

> SELECT WITH SERVICE BUTTON AND PRESS TEST BUTTON

COIN CHUTE TYPE...INDIVIDUAL

(A) COIN CHUTE TYPE(COMMON, INDIVIDUAL)

Adjust settings according to the specs of the cabinet COIN CHUTE.

COMMON

This is for cabinets where a single COIN CHUTE is used by multiple players. Coins inserted by each player are treated as common credits. Up to 2 COIN CHUTES (#1 and #2) may be used. The (C) COIN TO CREDIT RATE setting for COIN CHUTE #1 and #2 may be set differently.

INDIVIDUAL

This is for cabinets with individual COIN CHUTES for each player. Coins inserted by each player are treated as individual player credits. The (C) COIN TO CREDIT RATE setting is used by all COIN CHUTES.

(B) SERVICE TYPE(COMMON, INDIVIDUAL)

Use this to set the function of each SERVICE Button when there is more than one SERVICE Button.

COMMON Pressing any SERVICE Button enters service credits for all players.

INDIVIDUAL

Pressing the SERVICE Button enters service credits only for the corresponding player.

(C) COIN TO CREDIT RATE

Set the CREDIT RATE for each coin inserted.

The "x COIN(S) COUNT AS x CREDIT(S)" setting indicates that "Inserting x coins equals x credits".

Set this to "FREE PLAY" to allow game play without credits.

When (A) COIN CHUTE TYPE is set to "COMMON", COIN CHUTE #2 settings are restricted to some extent by the settings for COIN CHUTE #1.

(D) DETAIL SETTING

This mode allows for more detailed credit rate settings than the (C) COIN TO CREDIT RATE setting.

Changes made in DETAIL SETTING override any (C) COIN TO CREDIT RATE settings.

DETAIL SETTING Screen

COIN ASSIGNMENTS		
DETAIL SETTING		
COIN CHUTE #1 MULTIPLIER	(E)	C
1 COIN COUNT AS 1 COIN(S)	Ì,	1
COIN CHUTE #2 MULTIPLIER	(E)	
1 COIN COUNT AS 1 COIN(S)		
BONUS ADDER NO BONUS ADDER	(F)	В
COIN TO CREDIT 1 COIN(S) 1 CREDIT	(G)	C
ØEXIT		ØE
COIN CHUTE #1 OPERATION		CC
COIN 1 2 3 4 5 6 7 8 9		CC
CREDIT 1 2 3 4 5 6 7 8 9		CF
COIN CHUTE #2 OPERATION		
COIN 1 2 3 4 5 6 7 8 9		
CREDIT 1 2 3 4 5 6 7 8 9		
SELECT WITH SERVICE BUTTON		5
AND PRESS TEST BUTTON		

COIN CHUTE TYPE...COMMON

DETAIL SETTING COIN CHUTE #1 MULTIPLIER 1 COIN COUNT AS 1 COIN(S) BONUS ADDER NO BONUS ADDER COIN TO CREDIT 1 COIN(S) 1 CREDIT MEXIT COIN CHUTE #1 OPERATION COIN 1 2 3 4 5 6 7 8 9 CREDIT 1 2 3 4 5 6 7 8 9

COIN ASSIGNMENTS

SELECT WITH SERVICE BUTTON AND PRESS TEST BUTTON

COIN CHUTE TYPE...INDIVIDUAL

(E) COIN CHUTE MULTIPLIER

Use this to set how many coins will be counted for each coin inserted. The "1 COIN COUNT AS x COIN(S)" setting indicates that "Each coin will be counted as x coins".

When the (A) COIN CHUTE TYPE is set to "COMMON", the setting may be set individually for COIN CHUTE #1 and #2.

(F) BONUS ADDER

Use this to set the number of coins calculated with the (E) COIN CHUTE MULTIPLIER setting that need to be inserted to get 1 bonus coin. When the (A) COIN CHUTE TYPE is set to "COMMON", the sum of the coins for COIN CHUTE #1 and #2 is used for the calculation. The "x COINS GIVE 1 EXTRA COIN" setting indicates that "For every x coins, 1 bonus coin is given".

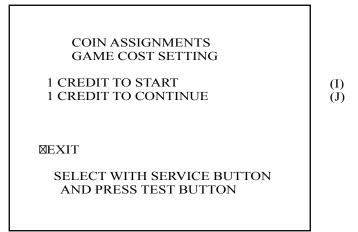
Set this to "NO BONUS ADDER" to disable bonus coins entirely.

(G) COIN TO CREDIT

Use this to set how many coins calculated with the (F) BONUS ADDER setting count as 1 credit. The "x COIN(S) 1 CREDIT" setting indicates that "Every x coins equals 1 credit."

(H) GAME COST SETTING

Use this mode to set the number of credits required to start a game. Screens may differ depending on the game.



- (I) Set the number of credits required to start a game.
- (J) Set the number of credits required to continue a game.

H. CLOCK SETTING

Use CLOCK SETTING to set the Chihiro internal clock.

CLOCK SETTING 2002/11/15(FRI) 05:10:34 YEAR MONTH DAY HOUR MINUTE ⊠EXIT SELECT WITH SERVICE BUTTON AND PRESS TEST BUTTON

- \boxtimes Use the SERVICE Button to move the cursor to the item to be set.
- Move the cursor to the desired item and press the TEST Button to increase values. The max value for YEAR is "2099"; further increases return the value to "2000".
- ☑ Move the cursor to EXIT and press the TEST Button to return to the SYSTEM MENU screen.

I. NETWORK SETTING (CORE)

Use the LAN PORT attached to the Main Board, and carry out the settings necessary for network communication.

Note: This function is not available with this product.

NETWORK SETTING (CORE)	
->REMOTE(C) ENABLE IP ADDRESS(C)	(A) (B)
SUBNET MASK(C)	(C)
GATE WAY(C)	(D)
PRIMARY DNS(C)	(E)
EXIT	
CURRENT ************************************	(F)
SELECT WITH SERVICE BUTTON AND PRESS TEST BUTTON	

- Use the SERVICE Button to move the cursor to the desired test item. (When setting IP ADDRESS, SUBNET MASK, GAME WAY or PRIMARY DNS, use the underline as a guide.)
- \boxtimes Press the TEST Button to change the setting.
- ☑ Move the cursor to EXIT and press the TEST Button to return to the SYSTEM MENU screen.
- (A) REMOTE (C)

This sets up whether a communication setting is automatic or manual.ENABLE:Sets the communication setting automatically.DISABLLE:Sets the communication setting manually.

(B) IP ADDRESS (C)

This is one of the settings required for communication network. After setting the number, press TEST Button on SET position to memorize the setting. If you set the REMOTE setting to ENABLE, you cannot select this.

(C) SUBNET MASK (C)

This is one of the settings required for communication network. After setting the number, press TEST Button on SET position to memorize the setting. If you set the REMOTE setting to ENABLE, you cannot select this.

(D) GATE WAY (C)

This is one of the settings required for communication network. After setting the number, press TEST Button on SET position to memorize the setting. If you set the REMOTE setting to ENABLE, you cannot select this.

(E) PRIMARY DNS (C)

This is one of the settings required for communication network. After setting the number, press TEST Button on SET position to memorize the setting. If you set the REMOTE setting to ENABLE, you cannot select this.

(F) CURRENT

This displays the present setting value during a setup of each item [(B), (C), (D), (E)]. Pressing TEST Button on SET position, the settings are memorized and the screen is changed.

J. NETWORK SETTING (MEDIA)

Use NETWORK SETTING to establish and test network connections. This is only displayed the following error message screen.

• This game does not support network communication connections.

NETWORK SETTING(MEDIA)

COMMUNICATION ERROR



- When changing the game configuration, changes will not take effect until the Game Test Mode has been completed. Be sure to exit the Game Test Mode properly after configuration changes.
- Do not configure the game in ways not described in this text. It is possible that the game will not function properly.

Select ENTER GAME TEST from the System Menu screen to display the GAME TEST MENU screen as follows.

Use the SERVICE Button to move the cursor to the desired test item. Press the TEST Button to enter the selected item's test.

GAME TEST MENU
INPUT TEST OUTPUT TEST GAME ASSIGNMENTS GUN SETTING BOOKKEEPING BACKUP DATA CLEAR
-> EXIT
SELECT WITH SERVICE BUTTON AND PRESS TEST BUTTON

Performs test, adjustments and settings for each of the Game Test Menu screen items below.

⊠ INPUT TEST:	Tests each input device used in the game.
Ø OUTPUT TEST:	Tests each output device used in the game.
GAME ASSIGNMENTS:	Adjusts game settings.
GUN SETTING :	Performs sight settings for the game's Control Unit (Shotgun).
BOOKKEEPING:	View all recorded game data.
BACKUP DATA CLEAR:	Erase all game records.

After selecting an item, read the explanations below regarding operation.

After performing tests and adjustments, return to the Game Test Menu screen, select EXIT and press the TEST Button. You will return to the System Menu Screen.

Move the cursor to EXIT on System Menu screen and press the TEST Button to return to the Game Play screen.

A. INPUT TEST

Select INPUT TEST to display the following screen and check the status of input devices. This test should be used periodically to check that each input device is functioning correctly.

INPUT TEST	
PLAYER 1 2 TRIGGER OFF OFF ACTION OFF OFF CHANGE OFF OFF CARD IN OFF OFF GUN-X OOH OOH GUN-Y OOH OOH SCREEN OUT OUT START OFF OFF	
SERVICE OFF TEST OFF	
PRESS TEST AND SERVICE BUTTON TO EXIT	
IG 9 3 a INPLIT TEST screen	

FIG. 9. 3 a INPUT TEST screen

The items refer to the following input devices.

⊠ TRIGGER	: The controller's TRIGGER switch.
⊠ ACTION	: The controller's ACTION button.
Ø CHANGE	: The controller's SHOT SELECTOR button.
⊠ CARD IN	: Whether an IC card is inserted into the slot or not.
⊠ GUN-X	: The current X-coordinate of the controller's target location. (range: 00-FF)
🛛 GUN-Y	: The current Y-coordinate of the controller's target location. (range: 00-FF)
SCREEN	: If the controller is facing the screen, this will be IN, otherwise it is OUT.
⊠ START	: The START button.
SERVICE	: The SERVICE button.
⊠ TEST	: The TEST button.

Input is normal if the display to the right of each item changes from OFF to ON when each input device is operated.

Input is normal if the display to the right of SCREEN changes from OUT to IN and GUN-X and GUN-Y show values between 00 and FF when the controller is pointed at the screen.

Press the SERVICE and TEST Buttons simultaneously to return to the Game Test Menu Screen.

B. OUTPUT TEST

Select OUTPUT TEST to display the following screen and check the status of each lamp. This test should be used periodically to check that the lamps are functioning correctly.

Press the SERVICE Button to move the cursor and the TEST Button to select. Displays ON when selected.

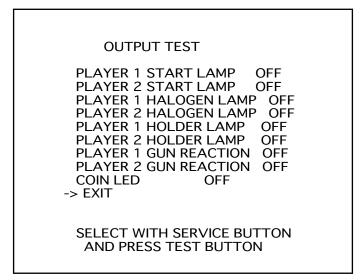


FIG. 9. 3 b OUTPUT TEST screen

☑ PLAYER 1 START LAMP	: Lights up the 1P START button.
☑ PLAYER 2 START LAMP	: Lights up the 2P START button.
DEAYER 1 HALOGEN LAMP	: Lights up the 1P halogen lamp.
☐ PLAYER 2 HALOGEN LAMP	: Lights up the 2P halogen lamp.
☑ PLAYER 1 HOLDER LAMP	: Lights up the 1P holder lamp.
☑ PLAYER 2 HOLDER LAMP	: Lights up the 2P holder lamp.
☑ PLAYER 1 GUN REACTION	: Vibrates the 1P gun.
☑ PLAYER 2 GUN REACTION	: Vibrates the 2P gun.
⊠ COIN LED	: Lights up the coin slot LED.
⊠EXIT	: Returns to the Game Test Menu.

Move the cursor to EXIT and press the TEST Button to return to the Game Test Menu Screen.

C. GAME ASSIGNMENTS

Select GAME ASSIGNMENTS to display the current game settings and make changes.

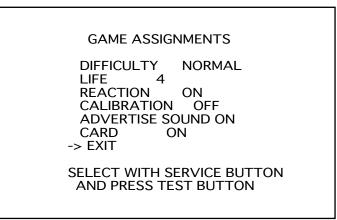


FIG. 9. 3 c GAME ASSIGNMENTS screen

Perform the following settings for each item.

I DIFFICULTY	: Choose the difficulty level of the game from EASY, NORMAL
	and HARD. The product is shipped with the default set at
	NORMAL.
I LIFE	: Choose the amount of life given for players starting a new game
	between 1 and 7. If the amount of damage sustained in the game
	equals this number, the game will be over. (Default: 4)

Note that these settings will not affect the appearance of the life gauge to the player. (refer to the "Life" section in "GAME RULES AND GAMEPLAY" for more information)

I REACTION	:Turn the gun controller vibration ON and OFF. (Default: ON)
I CALIBRATION	:Turn the initial gun controller calibration screen ON and OFF.
	(Default: OFF)
I ADVERTISE SOUND	:Turn sounds ON and OFF during the demo screen. (Default: ON)
I CARD	:Choose whether or not to use IC Cards.
	(In the U.S.A., the default is OFF, but elsewhere it is ON)
I EXIT	:Confirm the setting changes and return to the Game Test Menu.

Changes to settings are not enabled until Test Mode is exited. After changing settings, be sure to exit Test Mode.

After changing the settings, select EXIT and press the TEST Button to return to the Game Test Menu Screen.

D. GUN ADJUSTMENT

Select GUN ADJUSTMENT to display the following screen. This screen allows you to adjust the gun using the five calibration targets (TOP, LEFT, CENTER, RIGHT, BOTTOM). Use each target to calibrate as follows.

Use the standard gun controller, carefully aim at the correct target and pull the trigger to calibrate the value. Select between the calibration targets with the 1P and 2P START buttons or SERVICE button.

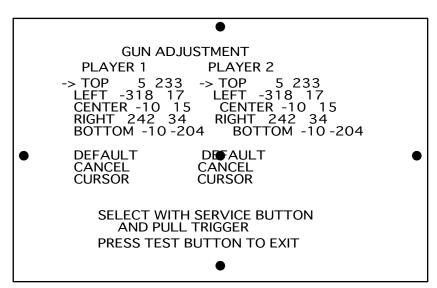


FIG. 9. 3 d GUN ADJUSTMENT screen

Details for each item are as follows.

I TOP x y:	Set the TOP value. The number on the left (x) is the horizontal component, and the number on the right (y) is the vertical component. Aim the controller at the TOP target (circle) and pull the trigger to set the value. This will not affect horizontal calibration.
l LEFT x y:	Set the LEFT value. The number on the left (x) is the horizontal component, and the number on the right (y) is the vertical component. Aim the controller at the LEFT target and pull the trigger to set the value. This will not affect vertical calibration.
I CENTER x y:	Set the CENTER value. The number on the left (x) is the horizontal component, and the number on the right (y) is the vertical component. Aim the controller at the CENTER target and pull the trigger to set the CENTER value.
l RIGHT x y:	Set the RIGHT value. The number on the left (x) is the horizontal component, and the number on the right (y) is the vertical component. Aim the controller at the RIGHT target and pull the trigger to set the RIGHT value. This will not affect vertical calibration.

Details for each item are as follows.

I TOP x y:	Set the TOP value. The number on the left (x) is the horizontal component, and the number on the right (y) is the vertical component. Aim the controller at the TOP target (circle) and pull the trigger to set the value. This will not affect horizontal calibration.
l LEFT x y:	Set the LEFT value. The number on the left (x) is the horizontal component, and the number on the right (y) is the vertical component. Aim the controller at the LEFT target and pull the trigger to set the value. This will not affect vertical calibration.
I CENTER x y:	Set the CENTER value. The number on the left (x) is the horizontal component, and the number on the right (y) is the vertical component. Aim the controller at the CENTER target and pull the trigger to set the CENTER value.
l RIGHT x y:	Set the RIGHT value. The number on the left (x) is the horizontal component, and the number on the right (y) is the vertical component. Aim the controller at the RIGHT target and pull the trigger to set the RIGHT value. This will not affect vertical calibration.
l BOTTOM x y:	Set the BOTTOM value. The number on the left (x) is the horizontal component, and the number on the right (y) is the vertical component. Aim the controller at the BOTTOM target and pull the trigger to set the value. This will not affect horizontal calibration.
I DEFAULT:	Restore calibration values to original settings.
I CANCEL:	Restore calibration values to previous settings.
I CURSOR:	Select CURSOR and aim the controller at the screen to display a round cursor (blue for 1P, red for 2P) where the controller hits the screen. Use this cursor to check calibration.
I OUT OF SCREEN:	Displays "OUT OF SCREEN" when the controller is pointed outside the screen. Values cannot be set when the controller is out of screen.

Changes to settings are not enabled until the Test Mode is exited. After changing settings, be sure to exit Test Mode.

After changing the settings, select EXIT and press the TEST Button to return to the Game Test Menu Screen.

e. BOOKKEEPING

Select BOOKKEEPING on the Game Test Menu screen to display the three screens of operating status data.

BOOKKEEPING PAGE1/3
COIN 10COIN 20TOTAL COINS0COIN CREDITS0SERVICE CREDITS0TOTAL CREDITS0
PRESS TEST BUTTON TO CONTINUE

The display items for the screen (Page 1 of 3) are as follows.

⊠ COIN 1:	The number of coins inserted into Coin Slot 1.
⊠ COIN 2:	The number of coins inserted into Coin Slot 2.
⊠ TOTAL COINS:	The total number of coins inserted into the coin slots.
⊠ COIN CREDITS:	The number of credits for the coins inserted.
SERVICE CREDITS:	The number of credits input by the Service Button.
⊠ TOTAL CREDITS:	The total number of all credits.

Press the TEST Button to display the next screen.

BOOKKEEPING PAGE2/3
NUMBER OF GAMES 0 TOTAL TIME 0D 0H 0M 0 S PLAY TIME 0D 0H 0M 0S AVERAGE PLAY TIME 0M 0S LONGEST PLAY TIME 0M 0S SHORTEST PLAY TIME 0M 0S
PRESS TEST BUTTON TO CONTINUE

The display items for the screen (Page 2 of 3) are as follows.

⊠ NUMBER OF GAMES:	The total number of games played by 1P and 2P.
⊠ TOTAL TIME:	The amount of time the unit has been in operation.
⊠ PLAY TIME:	The amount of time the game has been played.
Ø AVERAGE PLAY TIME:	The average play time for one game.
☐ LONGEST PLAY TIME:	The longest play time for one game.
SHORTEST PLAY TIME:	The shortest play time for one game.

Press the TEST Button to display the next screen.

BOOKKEEPIN	G PAGE3/3
GAME HIS	FOGRAM
0M 00S ~ 0M 29S	0000
0M 30S ~ 0M 59S	0000
1M 00S ~ 1M 29S	0000
1M 30S ~ 1M 59S	0000
2M 00S ~ 2M 29S	0000
2M 30S ~ 2M 59S	0000
3M 00S ~ 3M 29S	0000
3M 30S ~ 3M 59S	0000
$4M\ 00S \sim 4M\ 29S$	0000
4M 30S ~ 4M 59S	0000
5M 00S ~ 5M 29S	0000
5M 30S ~ 5M 59S	0000
6M 00S ~ 6M 29S	0000
6M 30S ~ 6M 59S	0000
7M 00S ~ 7M 29S	0000
7M 30S ~ 7M 59S	0000
8M 00S ~ 8M 29S	0000
8M 30S ~ 8M 59S	0000
9M 00S ~ 9M 29S	0000
9M 30S ~ 9M 59S	0000
OVER 10M 00S	0000
PRESS TEST E	BUTTON TO EXIT

This displays play times on a scale from 0M00S to 9M59S with 30-second intervals. All play times over ten minutes are included in the item OVER 10M00S.

Press the TEST Button after viewing. You will return to the Game Test Menu screen.

f. BACKUP DATA CLEAR

Select BACKUP DATA CLEAR to clear the contents of BOOKKEEPING and Score Data.

BACKUP DATA CLEAR	
YES(CLEAR) -> NO (CANCEL)	
SELECT WITH SERVICE BUTTON AND PRESS TEST BUTTON	

BACKUP DATA CLEAR Screen

To clear data, use the SERVICE Button to move the cursor to YES (CLEAR) and then press the TEST Button.

When the data has been cleared, the message "COMPLETED" will be displayed.

Press the TEST Button again to return to the Game Test Menu screen.

Move the cursor to NO (CANCEL) and press the TEST Button to return to the Game Test Menu screen without clearing the data.

Note that this operation does not affect the settings of the GAME ASSIGNMENTS and the GUN ADJUSTMENT.

Using the BACKUP DATA CLEAR function from this screen will not affect coin/credit data. To clear coin/credit data, use the BACKUP DATA CLEAR function in SYSTEM TEST MODE.

10. CONTROL UNIT (GUN CONTROLLER)



- I In order to prevent any electric shocks or short circuits, be sure to turn the power off before performing any work that involves touching the interior parts of the product.
 I Be arreful not to domage the wires. Demaged wires may equal plattic shocks or
- Be careful not to damage the wires. Damaged wires may cause electric shocks or short circuits, or present a risk of fire.
 De source careful actions and desires. Use all desires are careful actions are careful actions.
- I Be very careful when soldering. Handling a soldering iron carelessly may result in a fire or a burn.



- When securing the plastic-made parts, do not excessively fasten screws and nuts. Failure to do this may damage the parts, and fragments resulting from damage may cause injury.
- When reassembling the Gun Controller, be sure to check the connecting portion and the trigger, etc. If the reassembly work is insufficient and/or incorrect, fingers may be caught and result in injury.
- I The solenoid on the Control Unit (Gun Controller) may become hot. Take care as there is a risk of accidental burns.



- I Do not cut the tie belt securing the wires in the Control Unit (Gun Controller). Cutting the tie belt may cause malfunctioning of the wire connection. If you cut the tie belt when replacing the wire etc., be sure to secure the wires using a new tie belt as before.
- I Follow these directions carefully to avoid damaging or losing small parts.

In cases where the gun's operation is unsatisfactory or the gun sight deviates from the direction in which the control unit is pointed, the gun's interior parts may have been damaged. Replace the parts by disassembling the gun with the procedure described below. Also, be sure to perform a sighting check in the test mode when the gun parts are replaced.

REPLACING THE MICROSWITCH

To replace the Gun Controller's internal components, first separate the left shell (Cover L) and right shell (Cover R). The controller's internal components are mounted on the right shell, so work with the gun lying on its right side. To replace the Shot Selector button microswitch, first remove the Shot Selector button from the right shell.

I Turn power off.

I Remove the 15 screws to separate the two shells.

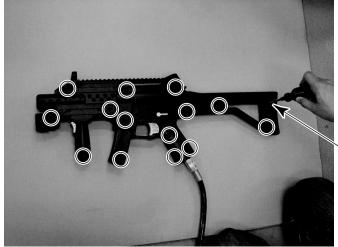


PHOTO 10 a



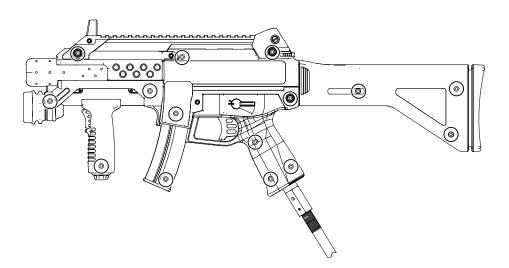


FIG. 10 a

I With the right shell lying flat, carefully lift the left shell from the right shell.

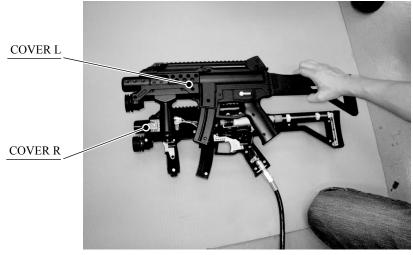
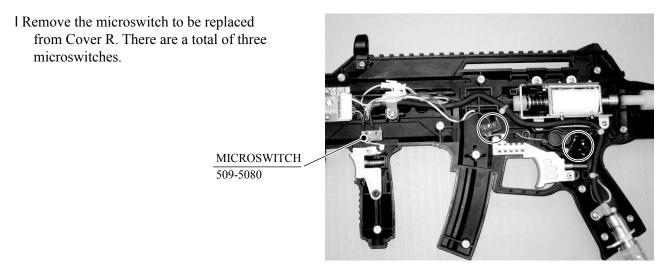


PHOTO 10 b



РНОТО 10 с

l Remove the soldering to take out the microswitch.



PHOTO 10 d

MICROSWITCH 509-5080 I Solder the new microswitch in place to reconstruct the gun controller. When performing this step, verify the points listed below before reattaching Cover L and Cover R.

IThe wires and connectors are laid out correctly in Cover R.

IThe bearing holder is securely in place when the pad assembly spring is compressed.

IThe selector is laid out horizontally.

IThe selector joint and selector spring are set properly.

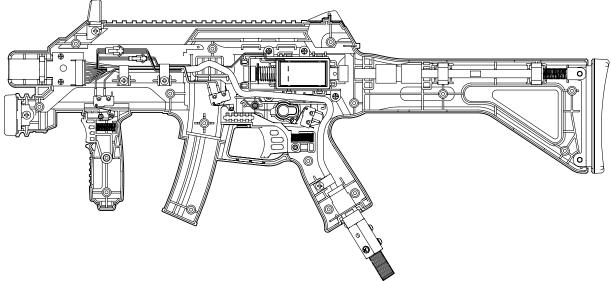


FIG. 10 b

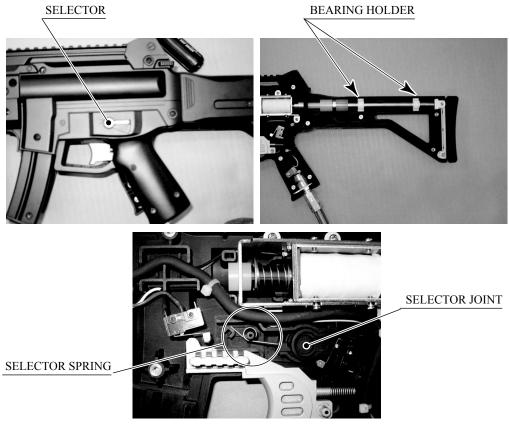
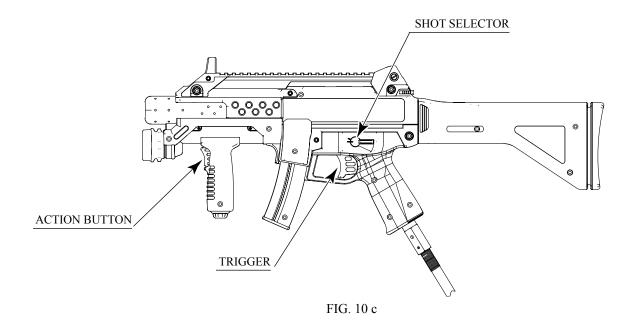


PHOTO 10 e

I Operate the TRIGGER, SHOT SELECTOR and ACTION buttons to make sure that the microswitches turn ON/OFF correctly.



After replacement, perform an INPUT TEST, referring to the instructions in "Game Test Mode".

REPLACING THE SENSOR UNIT

I Follow instructions of "Replacing the Microswitch" to remove the cover L.

I Remove the connector to replace the sensor unit.

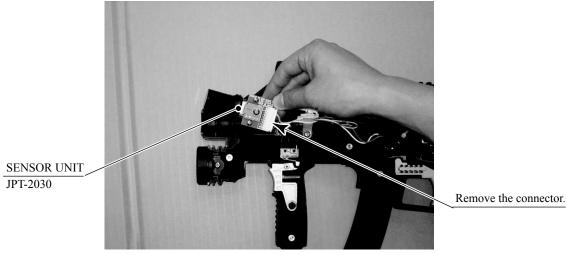


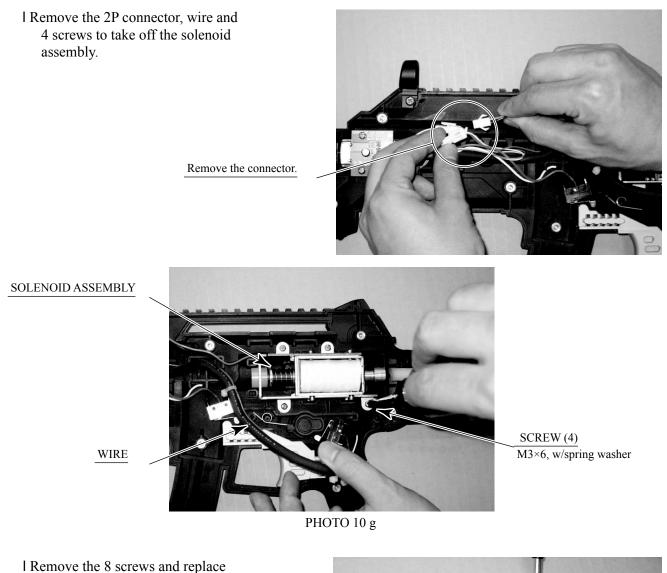
PHOTO 10 f

I Refer to the previous item, then attach COVER R while being careful of each of the parts.

After replacement, perform a GUN ADJUSTMENT, referring to the instructions in "Game Test Mode".

REPLACING THE SOLENOID

I Follow instructions of "Replacing the Microswitch" to remove the cover L.



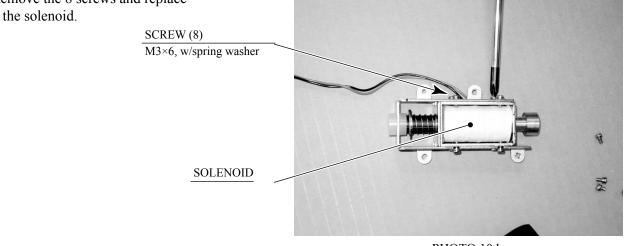


PHOTO 10 h

I Secure the solenoid assembly with 4 screws and replace the connector. When doing this, make sure not to damage the wiring.

I Refer to the previous item, then attach COVER R while being careful of each of the parts.

After replacement, perform an OUTPUT TEST, referring to the instructions in "Game Test Mode".

9. MONITOR

9-1 CAUTIONS AND WARNINGS CONCERNING THE SAFETY FOR HANDLING THE MONITORS

Before handling the monitors, be sure to read the following explanations and comply with the caution/warning instructions given below. Note that the caution/warning symbol marks and letters are used in the instructions.

Indicates that handling the monitors erroneously by disregarding this warning may cause a potentially hazardous situation, which could result in death or serious injury.

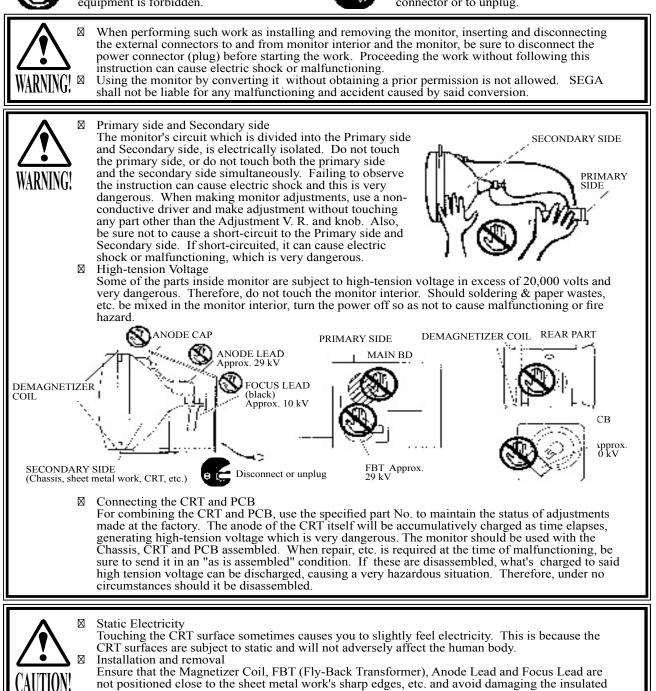
Indicates that access to a specific part of the equipment is forbidden.

above Figures).



Indicates that handling the monitors by disregarding this caution may cause a potentially hazardous situation, which could result in personal injury and or material damage.

Indicates the instruction to disconnect a power connector or to unplug.

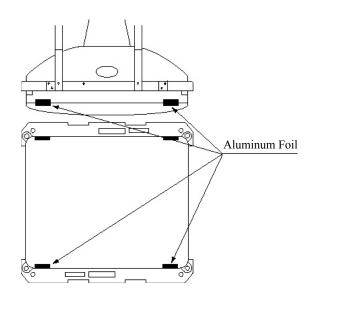


portions so as not to cause electric shock and malfunctioning. (For the name of parts, refer to the



For the purpose of static prevention, special coating is applied to the CRT face of this product. To protect the coating, pay attention to the following points. Damaging the coating film can cause electric shock to the customers.

- Do not apply or rub with a hard item (a rod with pointed edge, pen, etc.) to or on the CRT surfaces.
- Avoid applying stickers, seals, etc. on the CRT face.
- Do not remove aluminum foils from the CRT corners. Removing the aluminum foils can cause static prevention effects to be lowered.



9-2 CLEANING THE CRT SURFACES

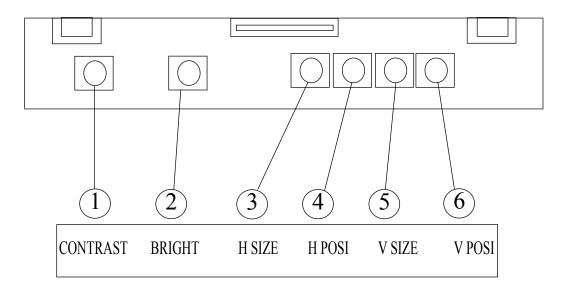


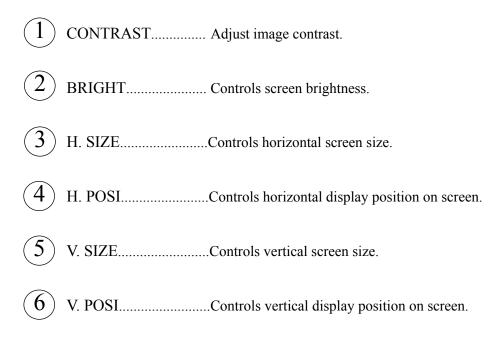
Static preventive coating is applied to the CRT surfaces. When cleaning, pay attention to the following points. Peeling off of static preventive coat can cause electric shock.

- Remove smears by using a dry, soft cloth (flannels, etc.). Do not use a coarse gauze, etc.
- For smear removing solvent, alcohol (ethanol) is recommended. When using chemical detergent, be sure to follow instructions below:
- Dilute chemical detergent with water and dip a soft cloth in and then thoroughly wring it to wipe smears off.
- Do not use a chemical detergent containing an abradant, powder or bleaching agent.
- Do not use alkaline chemical detergents such as "glass cleaner" available on the market or solvents such as thinner, etc.
- \square Do not rub or scratch the CRT face with hard items such as brushes, scrub brush, etc.

Clean the CRT surfaces once a week. When cleaning, pay attention to the above caution so that the antistatic coating will not come off.







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10. COIN SELECTOR

HANDLING THE COIN JAM

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

CLEANING THE COIN SELECTOR



- Remove and clean smears by using a soft cloth dipped in water or diluted chemical detergent and then squeezed dry.
- Never apply machine oil, etc. to the Coin Selector.
- After cleaning the Coin Selector, insert a regular coin in the normal working status and ensure that the Selector correctly functions.

The coin selector should be cleaned once every 3 months. When cleaning, follow the procedure below:

- Turn the power for the machine OFF. Open the coin chute door.
- 2) Open the gate and dust off by using a soft brush (made of wool, etc..).
- 3) Remove and clean smears by using a soft cloth dipped in water or diluted chemical detergent and then squeezed dry.

(4) Remove the CRADLE.

When removing the retaining ring

(E ring), be very careful so as not to bend the rotary shaft.

5) Remove stain from the rotary shaft and shaft receiving portions by wiping off with a soft cloth, etc.

6 After wiping off as per (5) above, further apply a dry cloth, etc. to cause the coin selector to dry completely.

COIN INSERTION TEST

Once every month, when performing the Coin SW Test, simultaneously check the following:

Does the Coin Meter count satisfactorily?

Does the coin drop into the Cashbox correctly?

Is the coin rejected when inserted while keeping the Reject Button pressed down?

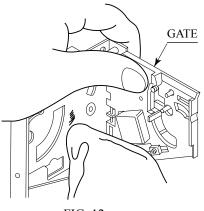
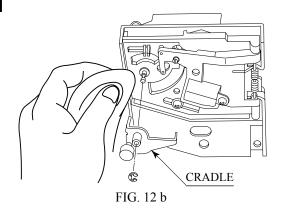
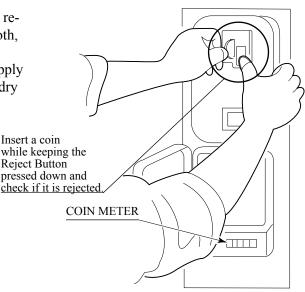


FIG. 12 a





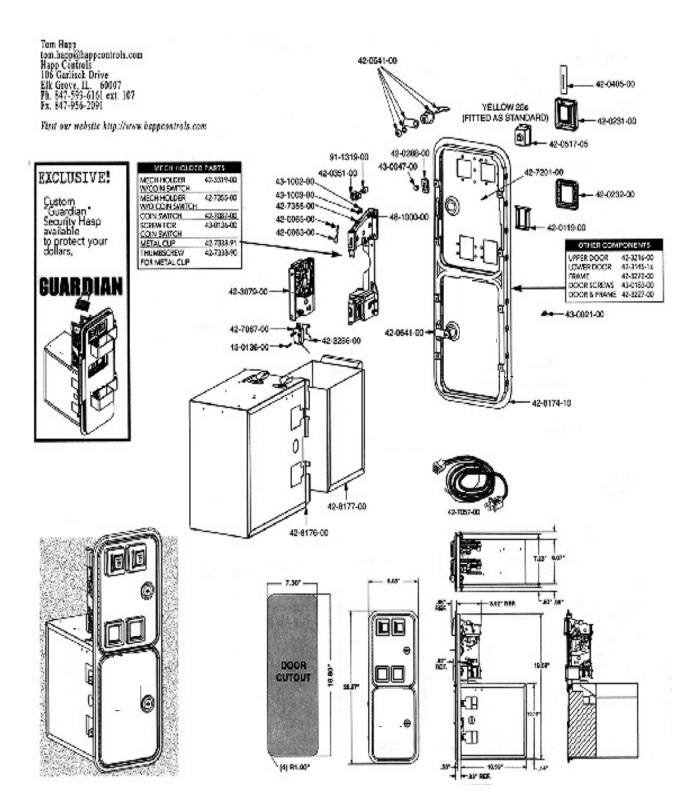


WELLS-GARDNER ELECTRONICS CORPORATION 2701 N.KUDIET CHCARO, L.KORTION 2701 N.KUDIET CHCARO, L.KORTION 2700 N.KUDIET CHCARO, L.KORTION

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W2D15-21 10-01 2 ENTRES MIN DOOR 2 ENTRES WITH BILL VALIDATOR BOTT ON DOOR 5 SPECIAL ENCLOSURE

COIN DOOR



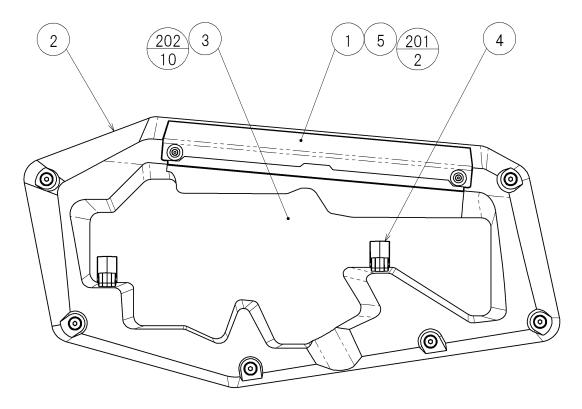
11. DESIGN RELATED PARTS



ITEM NO.	PART NO.	DESCRIPTION NOTE	3
1	999-1430	LABEL EPILEPSY WARNING SEGA	
2	999-2309	DECAL-START BUTTON	
3	999-2267	DECAL-GUN HOLDER TOP	
4	CTF-1303	DECAL-GUN HOLDER RIGHT SIDE	
5	CTF-1304	DECAL-GUN HOLDER LEFT SIDE	
6	999-2304	MARQUEE	
7	999-2308	DECAL-LEFT SIDE MONITOR	
8	999-2307	DECAL-RIGHT SIDE MONITOR	
9	999-2311	DECAL LEFT SIDE MAIN CABINET	
10	999-2312	DECAL RIGHT SIDE MAIN CABINET	
11	999-2265	UNDERLAY STYRENE MARQUEE	
12	999-2310	DECAL-CONTROL PANEL INSTRUCTIONS	

12. PARTS

ASSY CONTROLLER HOLDER (CTF-1300)

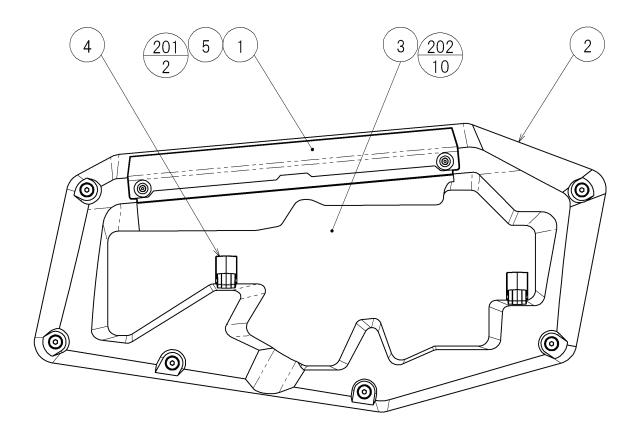


Fastening Torque:

(201): 1.4N•m(14kgf•cm)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	CTF-1340	ASSY HOLDER LIGHT	
2	CTF-1301	CONTROLLER HOLDER L	
3	CTF-1302	CONTROLLER HOLDER PLATE L	
4	CTF-1303	CONTROLLER HOOK	
5	CTF-1002	WASHER CTF	
201	FAS-290037	HEX SKT LH CAP SCR SCR STN M5X20	
202	FAS-120031	TAP SCR P-TITE TH BLK 4X16	

ASSY CONTROLLER HOLDER (CTF-1320)

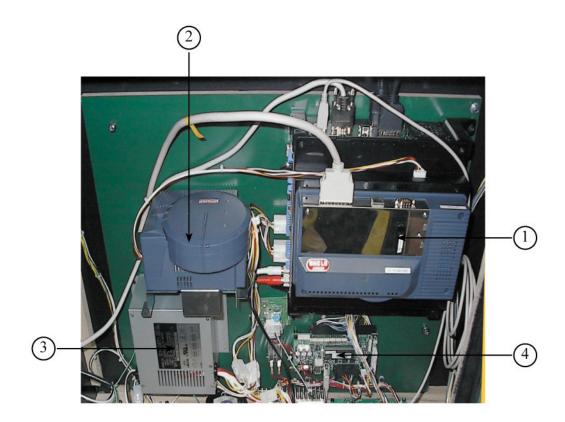


Fastening Torque: 201 : 1.4N•m(14kgf•cm)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	CTF-1340	ASSY HOLDER LIGHT	
2	CTF-1321	CONTROLLER HOLDER R	
3	CTF-1322	CONTROLLER HOLDER PLATE R	
4	CTF-1303	CONTROLLER HOOK	
5	CTF-1002	WASHER CTF	
201	FAS-290037	HEX SKT LH CAP SCR SCR STN M5X20	
202	FAS-120031	TAP SCR P-TITE TH BLK 4X16	

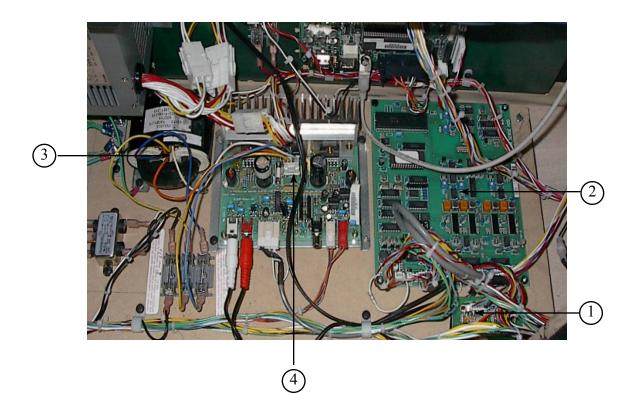
2 GAME BOARD AREA

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	843-0001D-22	ASSY. CASE BOX COM DIMM EXP	
2	XKT-0833	GD-ROM DRIVE	
3	400-5443	SWITCHING POWER SUPPLY	
4	837-13844-02	I/O CONTROL BOARD	



2 GAME BOARD AREA

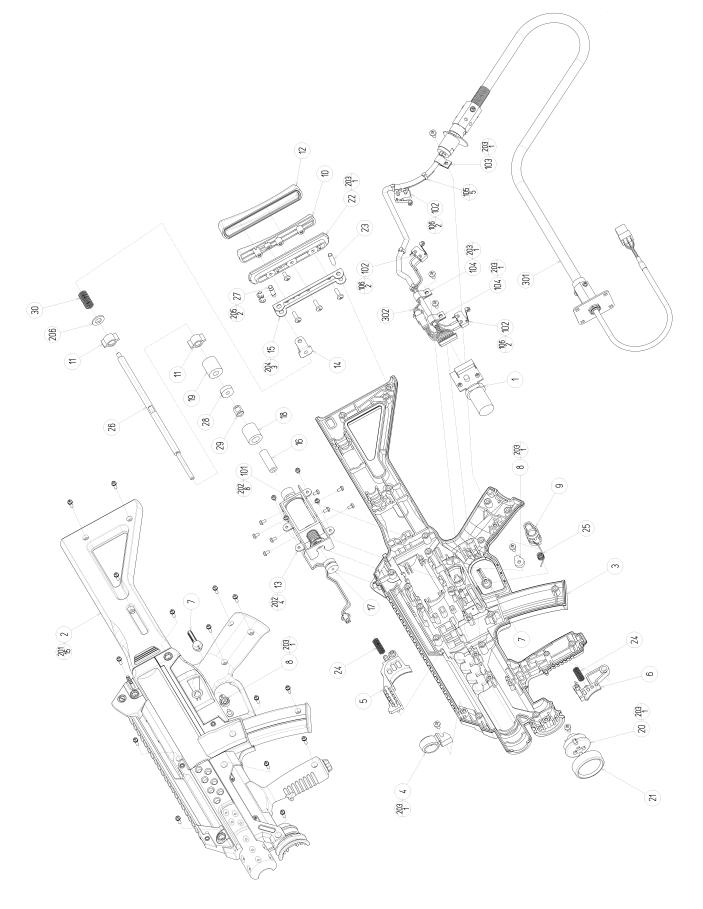
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	998-0165	GUN INPUT PROTECTION CIRCUIT	
2	838-13143-08	IC BD GUN SENSE SPY	
3	560-5407-UL	TRANSFORMER AUDIO	
4	838-13616	AUDIO POWER AMP 2 CH	



3 OTHER PARTS

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	999-1656	PUSH BUTTON 1 1/2" YELLOW START 1	
2	999-1657	PUSH BUTTON 1 1/2" YELLOW START 2	
3	999-0167	LEG LEVELER 1/2-13-3"	
4	999-0168	CASTER 160-2 1/2 #251888 SWIVEL	HITE
5	LOCAL PURCHASE	FLUORESCENT LAMP ASSY 24" COOLW	
6	999-1442	SPEAKER 4 OHM 15 WATT	
7	JPT-1082	IR COVER	
8	838-13145-02	LED BD GUN SENSE HOD	
9	999-1602	VENT AIR HOLE	
10	LOCAL PURCHASE	TEMPERED MONITOR GLASS	
10	000 1650	Height - 24.781" Width - 28.828" Thickness	188"
12	999-1659	PLASTIC PROTECTOR LEFT	
13	999-1660	PLASTIC PROTECTOR RIGHT	
15	999-1596	FAN 110/120VAC 17/15W SINWAN	
16	999-2268	CONTROL PANEL COVER	
10	999-1222	POT 5K OHM	





CONTROL UNIT (CTF-2100)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	JPT-2030	SENSOR UNIT	
2	CTF-2101	COVER L	
3	CTF-2102	COVER R	
4	CTF-2103	FRONT SIGHT	
5	CTF-2104	MAIN TRIGGER	
6	CTF-2105	SUB TRIGGER	
7	CTF-2106	SELECTOR	
8	CTF-2107	SELECTOR HOLDER	
9	CTF-2108	SELECTOR JOINT	
10	CTF-2109	PAD BASE	
11	CTF-2110	BEARING HOLDER	
12	CTF-2111	PAD	
13	CTF-2112	SOLENOID FRAME	
14	CTF-2113	SHAFT JOINT	
15	CTF-2114	PAD FRAME	
16	CTF-2115	RECOIL DAMPER	
17	CTF-2116	SOLENOID DAMPER	
18	CTF-2117	SHAFT DAMPER F	
19	CTF-2118	SHAFT DAMPER R	
20	CTF-2119	CAPBASE	
21	CTF-2120	LIGHT CAP	
22	CTF-2121	PAD BEZEL	
23	CTF-2122	PAD PIN TRUCCER SPRINC	
24	CTF-2123	TRIGGER SPRING	
25 26	CTF-2124	SELECTOR SPRING SHAFT	
26 27	CTF-2125 CTF-2126	JOINT PIN	
27	CTF-2120	SHAFT STOPPER	
28	CTF-2127 CTF-2128	DAMPER BASE	
30	CTF-2120	RETURN SPRING	
50	011 212)		
101	124-5097	SOLENOID	
102	509-5080	SW MICRO TYPE (SS-5GL2)	
103	280-5124-04	NYLON CLAMP NK04	
104	280-5124-05	NYLON CLAMP NK05	
105	601-0460	PLASTIC TIE BELT 100 M/M	
106	310-5029-D20	SUMITUBE F D 20MM	
201	FAS-000100	M SCR PH W/SMALL FS BLK M3X12	
202	000-P00306-S	M SCR PH W/S M3X6	
203	FAS-120029	TAP SCR P-TITE PH 4X8	
204	FAS-120030	TAP SCR P-TITE PH BLK 4X12	
205	065-E00400	E RING 4MM	
206	FAS-600020	FLT WSHR NORM A M8	
301	CTF-60032	WH CONTROLLER MAIN EXT	
302	CTF-60032	WH CONTROLLER MAIN EAT WH CONTROLLER SW EXT	
502	00000		

(D-2/2)

13. WIRE COLOR CODE TABLE

THE WIRE COLOR CODE is as follow:

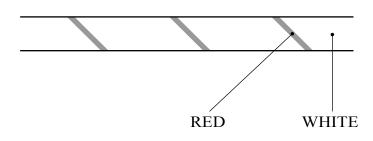
- A PINK
- B SKY BLUE
- C BROWN
- D PURPLE
- E LIGHT GREEN

Wires other than those of any of the above 5 single colors will be displayed by 2 alphanumeric characters.

1 RED 2 **BLUE** 3 YELLOW 4 GREEN 5 WHITE 7 ORANGE 8 BLACK 9 GRAY

If the right-hand side numeral of the code is 0, then the wire will be of a single color shown by the left-hand side numeral (see the above).

Note 1: If the right-hand side alphanumeric is not 0, that particular wire has a spiral color code. The left-hand side character shows the base color and the right-hand side one, the spiral color.



<Example> 51 WHITE / RED

Note 2: The character following the wire color code indicates the size of the wire.

U:	AWG16
K:	AWG18
L:	AWG20
None:	AWG22

Notes:

Warranty

Your new Sega Product is covered for a period of 90 days from the date of shipment. This certifies that the Printed Circuit Boards, Power Supplies and Monitor are to be free of defects in workmanship or materials under normal operating conditions. This also certifies that all Interactive Control Assemblies are to be free from defects in workmanship and materials under normal operating conditions. No other product in this machine is hereby covered.

Sellers sole liability in the event a warranted part described above fails shall be, at its option, to replace or repair the defective part during the warranty period. For Warranty claims, contact your Sega Distributor.

Should the Seller determine, by inspection that the product was caused by Accident, Misuse, Neglect, Alteration, Improper Repair, Installation or Testing, the warranty offered will be null and void.

Under no circumstances is the Seller responsible for any loss of profits, loss of use, or other damages.

This shall be the exclusive written Warranty of the original purchaser expressed in lieu of all other warranties expressed or implied. Under no circumstance shall it extend beyond the period of time listed above.



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45133 Industrial Drive Fremont, CA 94538 (415) 701-6580 phone (415) 701-6594 fax