

# OPERATOR'S MANUAL

# HELLNIGHT

# EVILNIGHT







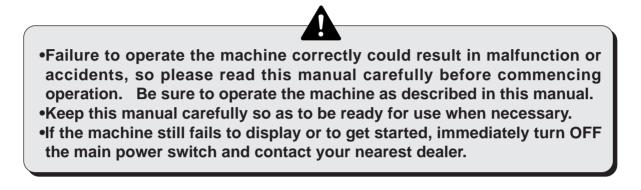
Failure to operate the machine correctly could result in malfunction or accidents, so please read this manual carefully before commencing operation. Be sure to operate the machine as described in this manual.

Keep this manual carefully so as to be ready for use when necessary.





Thank you for purchasing this KONAMI product. This manual explains how to operate your game machine correctly and safely.



•This manual covers the following models: -

•GQ810-TB •GQ810-SD •GQ810-UC

The specifications of GQ810-TB may be somewhat different from GQ810-SD and GQ810-UC. In such a case, read the descriptions of the model which applies to the game machine you are operating.

•The specifications of this product are subject to change without notice for reasons such as improving the performance.

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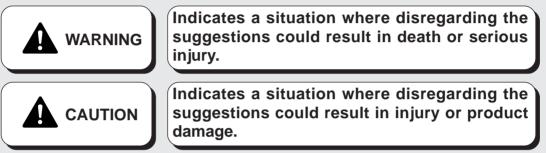
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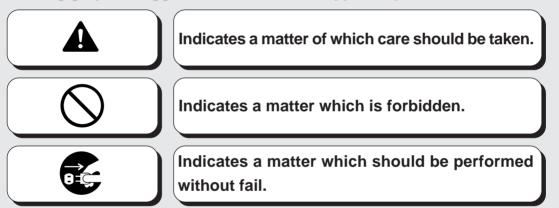
In this manual, the precautions to be followed without fail in order to prevent damage to persons to install, use or maintain "HELLNIGHT<sub>™</sub> (EVILNIGHT<sub>™</sub>)" or other persons or to properties are shown as follows.

### Be sure to read the following

•The following suggestions show the degree of danger and damage caused when the product is used improperly with the suggestions disregarded.



•The following graphic suggestions describe the types of precautions to be followed.



•Definitions of qualified in-shop maintenance persons and industry specialist who handle this product.

- In this instruction manual, some procedures require a qualified in-shop maintenance person or industry specialist. For such instructions, a qualified person must take care of the jobs.
   Otherwise an electric shock, machine trouble, or a serious accident may result.
- •Replacing the machine parts, inspecting and maintaining the machines, and troubleshooting must be assigned only to a qualified in-shop maintenance person or industry specialist. This booklet gives instructions that hazardous jobs in particular must be handled by an industry specialist. Qualified in-shop maintenance persons and industry specialist are defined as follows.

#### Qualified in-shop maintenance persons

• A qualified in-shop maintenance person must have experiences in maintaining amusement machines, money changers and the like. Under the supervision of an amusement machines shop owner or manager, he or she routinely assembles, installs, inspects and maintains the amusement machines, or replaces their component units and consumable parts, in the amusement machines workshop and/or shop.

#### Jobs handled by qualified in-shop maintenance persons

• Assembling, installing, inspecting and maintaining amusement machines and money changers, and replacing their component units and consumable parts.

#### Industry specialist

• An industry specialist must be engaged in designing, manufacturing, inspecting and servicing amusement machines. Or he or she must have an education in electrical, electronic and mechanical engineering, and routinely maintain and repair amusement machines.

#### Jobs handled by industry specialist

• Assembling and installing amusement machines and money changers, and repairing and adjusting their electrical, electronic and mechanical component parts.

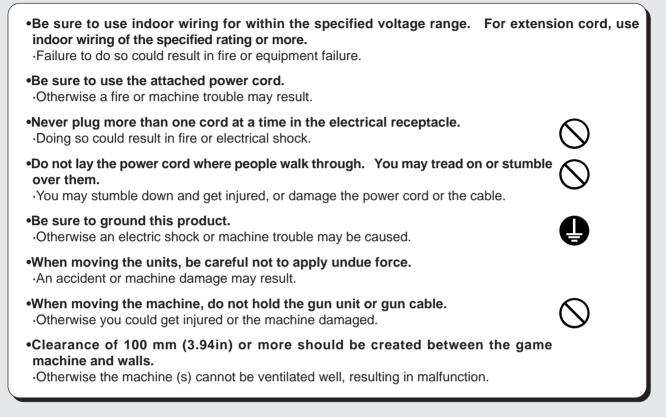
### Setting Up



<ul> <li>Be sure to consult your nearest dealer when setting up, moving or transporting this</li> <li>This product should not be set up, moved or transported by anyone other than indus</li> <li>Doing so could result in injury or product damage.</li> <li>When installing the machine, make sure that all the 4 adjusters are tight on the floor machine is placed stably and horizontally. Unstable set-up may get the machine shake personal injury or machine trouble.</li> <li>When setting up this product, take care that no undue force is applied to the opening / cle or moving sections of the game machine. Failure to do so could cause injury, acciden damage.</li> </ul>	r and that the y and result in osing sections
•This product is an indoor game machine. Never set up the game machine outside. •Setting up this product outside could result in accidents or equipment failure.	$\odot$
•Do not set up the game machine near emergency exits. •Doing so could block exits in time of emergency and could result in death or serious injury.	$\otimes$
<ul> <li>•Do not set up the game machine.</li> <li>•Otherwise an accident or malfunction may result.</li> <li>•In a place exposed to rain or moisture.</li> <li>•In a place exposed to direct sunlight.</li> <li>•In a place exposed to direct heat from air-conditioning and heating equipment, etc</li> <li>•Near hazardous flammable substance such as thinner and kerosene.</li> <li>•On an inclined or uneven floor.</li> <li>•Near fire extinguishing equipment.</li> <li>•In a place exposed to strong vibration.</li> <li>•In a place exposed to excessive dust.</li> <li>•Near equipment generating strong magnetism or electric waves.</li> </ul>	$\bigotimes$
•Do not place containers holding chemicals or water on or near the game machine. •Electrical shock or damage could be caused by water or foreign matter entering the inside of the machine.	$\otimes$
•Do not place objects near the ventilating holes. •Doing so could cause the internal temperature to rise excessively, resulting in fire or equipment failure.	$\oslash$
•Do not bend the power cord by force or place heavy objects on it. •Doing so could result in electric leakage or fire.	$\otimes$
•Never plug or unplug the power cord with wet hands. •Doing so could result in electrical shock.	$\odot$
•Never unplug by pulling the power cord. •Doing so could damage the cord, resulting in electric leakage or fire.	$\odot$

#### **Setting Up**





#### Operation



•If there is any abnormality such as smoke, bad smell or abnormal noise being emitted from the machine, immediately turn OFF the main power switch and unplug the power cord from the receptacle to stop operating it. Using the machine in abnormal conditions could result in fire or accidents. - In case of abnormality 1 Turn OFF the main power switch. 2 Unplug the power cord from the receptacle. 3 Contact your nearest dealer. •Do not leave the power cord plugged improperly or covered with dust. Doing so could result in electrical shock or fire, so inspect the power cord periodically. •Never disassemble, repair or modify any section other than those specified in this manual. Doing so could result in fire, malfunction or equipment failure. Ask your nearest dealer to perform repairing, etc.. We do not assume any responsibility for any damages that would be caused by tampering with the machine.

#### Operation •Do not use this product anywhere other than industrial areas. Using in a residential area or an area next to a residential area could affect signal reception of radios, television sets, telephones, etc.. •The following users should not play the game. Doing so could cause accidents or illness. Those under the influence of alcohol. . Those in bad shape. •Those suffering from or being treated for arm or wrist ailments. •Those suffering high blood pressure or heart ailments. Those pregnant or probably pregnant. •Ask players not to roughly handle or wave the gun unit. An injury or machine trouble may result. A forceful pull of the gun cable may also break the cable •Do not plug or unplug the power cord with wet hands. Doing so could result in electrical shock. •In handling the power cord, follow the instructions below. Otherwise an electric leak, fire or electric shock may result. Normal communication play may also be impossible. ·Do not damage the power cord. ·Do not modify the power cord. Do not bend the power cord excessively. ·Do not twist the power cord. Do not heat the power cord. Do not pull the power cord. ·Do not bind the power cord. Do not tread on the power cord. •Do not sandwich the power cord. Do not drive a nail into the power cord. •If the power cord or power plug becomes damaged, stop using the machine immediately and ask your nearest dealer to replace the parts. Using a damaged power cord or power plug could result in fire or electrical shock. •After the play is over, make sure the gun unit is back in the specified position. Hitting against the gun may cause an injury. Inspection and cleaning WARNING •Be sure to turn OFF the main power switch and unplug the power cord from the receptacle before inspecting or cleaning the machine. Failure to do so could result in electrical shock. •When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones. Using improper parts could result in fire or equipment failure. •The machine has some high-voltage parts inside. Only a qualified industry specialist is allowed to open the back door of the machine. With this back door open, be very careful not to touch unnecsessary parts. Otherwise an accident or electric shock may result. •Before opening the back door, be sure to turn OFF the main power switch on the power unit and unplug the power cord. If the sub-power switch on the service panel is turned OFF but the main power switch on the power unit is still ON, some parts inside are still on power. •Never disassemble, repair or modify any section other than those specified in this manual. Doing so could result in fire, malfunction or equipment failure. Ask your nearest dealer to perform repairing, etc... We do not assume any responsibility for any damages that would be caused by tampering with the machine. •To clean the game machine, wipe it with a soft cloth dampened in a neutral detergent and wrung out. Using thinner or other organic solvent or alcohol may decompose the material. Electrical shock or equipment failure could be caused by water entering the inside of the machine.

5

Moving and transportation
CAUTION
•The game machine contains parts such as the monitor, electronic components and precision components which are sensitive to vibrations and impacts. Great care therefore should be taken when moving and transporting the game machine. Be sure not to let the machine tip over.
•Before moving the machine, be sure to turn OFF the main power switch, unplug the power cord from the receptacle and remove the power cord from the machine.
•Before moving the machine, be sure to fully screw up all the adjusters. Move the machine on the casters. •An accident, machine damage or trouble may result.
•When moving the units, be careful not to apply undue force. •An accident or machine damage may result.

# PRECAUTION

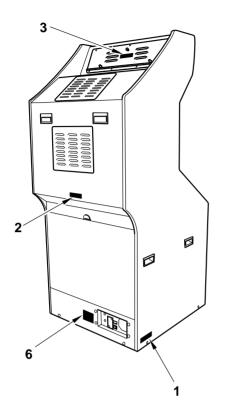
•When setting up, inspecting, maintaining, moving or transporting this product, follow the procedures and instructions set forth in this manual and perform such work safely.

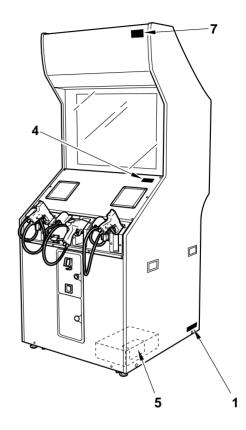
•Do not remove labels of "WARNING", "CAUTION", etc. attached to the product.

•Do not set up, handle, inspect, maintain, move or transport this product under conditions equivalent to the condition of "WARNING" or "CAUTION" specified in this manual.

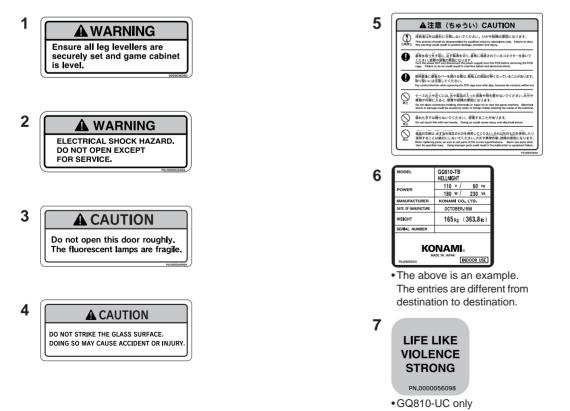
•If a new owner is to have this product as a result of transfer, etc., be sure to give this manual to the new owner.

### Locations of warning and other safety labels



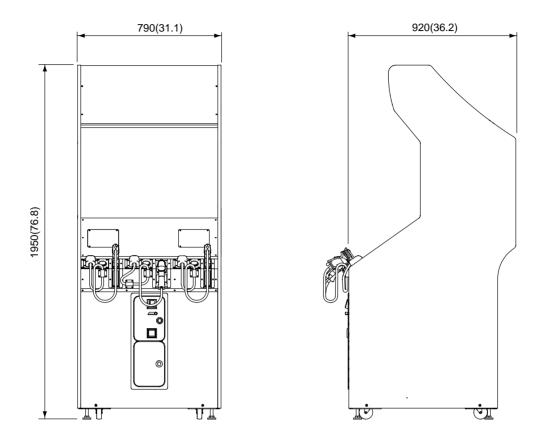


### Types of warning and other safety labels



## MEMO

# **1** Specifications



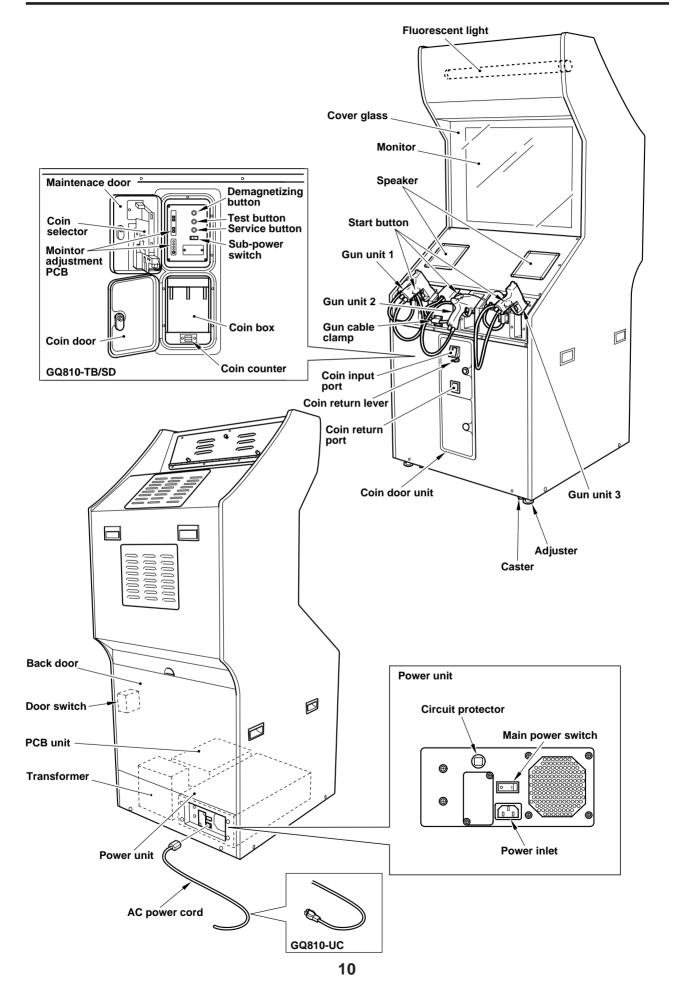
Speci	fication	S
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Dimensions	Refer to the figure above : mm (in)
Total weight	Approx. 165 kg (363.8lb)
Rated power consumption /actual power	GQ810-TB : 180W / 230VA GQ810-SD / UC : 150W / 210VA
Monitor	29-inch color monitor
Service condition	Temperature 5 to $40^{\circ}$ C (41 to $104^{\circ}$ F), Humidity 20 to 70% (No dewing is allowed.)
Attachments	·Instruction manualThis manual·Keys for coin door2·Keys for maintenance2·AC power cord1

•If any part is defective or not found, contact your nearest dealer.

•The specifications of this product are subject to change without notice for reasons such as improving the performance.

# 2 Names of parts



# 3 How to play

The "HELLNIGHT<sub>TM</sub> (EVILNIGHT<sub>TM</sub>)" is a horror gun shooting game that one, two or three people can simultaneously play in cooperation. Shoot down your enemies, appearing one after the other, to get a high score.

- 1 Put coin(s) in the slot. Press the start button and the course selection screen shows up. •There are two types of guns to choose from.
  - -Handgun (1P, 3P)..... The force of each shot is inferior to the shotgun, but bullets can be fired in rapid succession.

-Shotgun (2P)......Bullets cannot be fired in rapid succession, but the force of each shot is nearly double the handgun.

- 2 Select one from the 3 courses. Fire the gun within 10 seconds, and the game starts itself. (If no particular course is selected, the game starts with "COURSE **B**".)
- **3** Shoot enemies who appear one after the other on the screen.
  - •The guns of 1P and 3P players are of automatic type and can deliver 6 shots in rapid succession. When the 6 bullets are out, direct the gun muzzle out of the screen and pull the trigger. The gun is now fully loaded again. (The guns can be reloaded no matter how many bullets remain in them.)

•The gun of 2P player is a shotgun that can be fired up to 4 bullets one after the other. When the bullets are out, pull the slide handle. The gun is now fully loaded again. (The gun can be reloaded no matter how many bulets remain in it.)

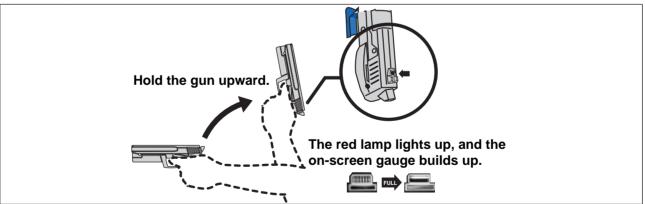
**4** When you get shot by the enemies and lose all your life points, the game is over.

#### Power shooting - - - -

The handguns may be used for power shooting.

The power shot is more than twice as forceful as usual.

Hold the gun upward and the red lamp on the gun barrel lights up. The gauge located below the remaining bullets display on the game screen builds up, enabling the power shooting.



#### Setting the enemies' blast-out styles - - -

In the "HELLNIGHT<sub>TM</sub> (EVILNIGHT<sub>TM</sub>)" game, there are 4 blast-out styles of the enemies to choose from. (Refer to "GAME OPTIONS" on page 18.)

BLUE ..... Blast out in blue flashes.

•RED ..... Blast out in red flashes.

·DARK BLUE ... Blast out in navy-blue flashes.

·LIGHTNING .... Blast out in sky-blue flashes of lightning. (Factory setting)

#### Joining the game halfway = = = = = =

•You can join the game anytime during the play.

### Continuing the game — — — — — — — — — — — — — —

•You can continue the game if you take the procedure within about 20 seconds before the game is over.

# 4 Opening and closing the doors

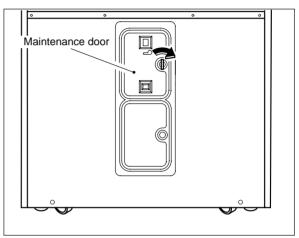
### 4-1 Opening and closing the maintenance door

How to open the maintenance door —

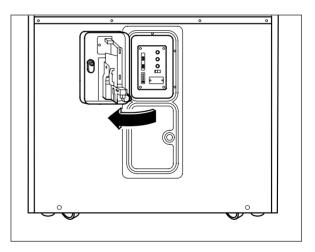
•Take care not to apply any load or impact to the maintenance door when it is open.

•After closing the maintenance door, be sure to check that the door is locked securely.

1 Insert the attached maintenance key in the maintenance door and turn it clockwise.



**2** Open the maintenance door.



#### How to close the maintenance door

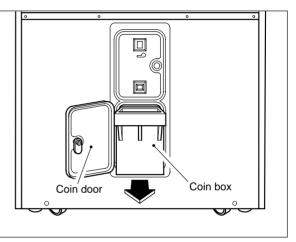
- 1 Close the maintenance door.
- **2** Turn the maintenance key counterclockwise and draw it out.

### 4-2 Opening and closing the coin door

Opening and closing the coin door and removing the coin box — — — — —

•Take care not to apply any load or impact to the coin door when it is open. •Securely lock the door for protection against burglaries. •Note that the coin box is considerably heavy to take out if it is full of coins.

- 1 Insert the attached coin door key in the coin door and turn it clockwise.
- **2** Open the coin door and take out the coin box.

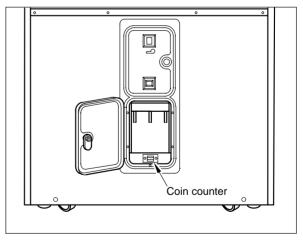


You will find the coin box when the coin door is opened. The coin counter is located under the coin box.

- MEMO

•To move the coin counter onto the service panel, see page 27.

Coin counter 🗕



# **5 PCB settings**

### 5-1 PCB start-up check (self test)

When the power switch is turned ON after installation of machine, the performance of game Printed Circuit Boards (PCB) is checked automatically and the result is displayed on the screen. If the power is not turned ON, make sure that the main power switch and sub-power switch are both at the ON position. (See pages 24 and 25)



- •Be sure to check the PCB unit (self test) before using the machine.
- •When the machine has been set up or moved to another place, turn ON the power switch and press the demagnetizing button on the service panel to demagnetize the monitor. If the monitor is still magnetized, the gun unit may respond well or the target points may get out of position.
- •When the machine has been set up or the PCB unit or the gun unit has been repaired or replaced, be sure to position the target points, referring to "CALIBRATION" on page 22.
- •When the settings have been brought back to the factory ones, be sure to position the target points, referring to "CALIBRATION" on page 22.
- •If an abnormality persists or the machine does not operate properly, immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.

#### Result of test

### -If test is OK-

•The machine goes to the game mode and the demonstration game gets started.

#### If any abnormality is detected -

• "BAD" appears on the screen, and the checking is repeated.

If "BAD" appears on the "RTC CHECK" or "EEP ROM CHECK" screen, once turn OFF the power switch and turn it ON again while holding down the test button on the service panel.

(The settings made in the manual test will return to the factory settings.)

If an abnormal display continues or the machine does not operate normally, immediately turn OFF the main power switch, unplug the power cord and contact your nearest dealer.

### 5-2 Adjusting the game environment (manual test)

Manually check and change the settings for the screen displays and game contents and change them as reguired.

#### Starting the manual test mode

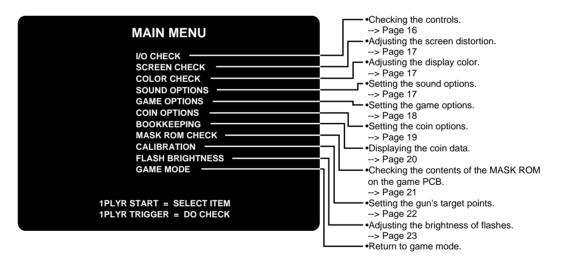
- 1 Turn ON the power switch.
- 2 While the demonstration game is playing, press the test button on the service panel. (Do not turn ON the power switch with the test button held down. The current settings will be erased and the machine will have the factory settings.)The unit is set in the manual test mode and the main menu is displayed on the screen.

#### Quit the manual test mode — — —

1 Press the 1P start button to select "GAME MODE" on the main menu screen.

- **2** Pull the trigger of the 1P gun.
  - •The screen goes back to the game mode.

#### Main menu screen (basic items) 🗕 🗕



#### Selecting each mode - -

How to select each mode from the main menu

•SELECT --> Press the 1P start button.

-SET --> Pull the trigger of the 1P gun.

After selecting a mode, refer to the page on which that mode is described in details.

### **5-3 Mode descriptions**

The original factory settings are displayed in green; the changed settings are displayed in red.

•Press the 1P start button to select a setting to be modified. Pull the 1P gun trigger to change the setting.

-After the setting has been changed, select "SAVE AND EXIT" and pull the 1P gun trigger.

"NOW SAVING" will appear, the modified settings will be saved, and the screen returns to the main menu.

-If "EXIT" is selected after the modification of the settings, the following message will appear.

"YOU DID NOT SAVE. DO YOU WANT TO SAVE? YES/NO" select "YES" or "NO". Press the 1P start button to select "YES" or "NO". Pull the 1P gun trigger to enter the decision.

If "YES" is selected, the new settings will be saved with "NOW SAVING" displayed and the screen will return to the main menu.

If "NO" is selected, the message "NO MODIFICATION" will appear, the modified settings will not be saved, but the main menu will show up again on the screen.

•If "FACTORY SETTINGS" is selected and the trigger of the 1P gun is pulled, all the settings of the mode will be back to the factory ones.

MEMO -

### I/O CHECK

Checking the controls

Mode for checking the performance of the controls. To return to the main menu screen, hold down the 1P start button and pull the 1P gun trigger.

	I/O CI	HECK		
TRIGGER GUN SWITCH START SERVICE COIN MECH S COIN MECH S COIN MECH S TEST SWITCH	OFF OFF WITCH1 WITCH2 WITCH3	PLAYER2 OFF OFF OFF OFF OFF OFF	PLAYER3 OFF	<ul> <li>Pull each gun trigger and see if "ON" shows up in red.</li> <li>Hold the 1P and 3P gun muzzles just upward and see if "ON" shows up in red. Pull the 2P gun slide handle to see if "ON" shows up in red.</li> </ul>
1PLYR S	TART AND 1F	PLYR TRIGGEI	R = EXIT	

•This screen is just an example.

5 PCB settings

### **SCREEN CHECK**

Mode for checking the screen display.

Adjust the focus, distortion and size of the image on the screen while watching the crosshatch pattern. Use the monitor adjustment PCB (See page 34) to make adjustments.

To return to the main menu screen, press the 1P start button.

### **COLOR CHECK**

Adjusting the display color

Mode for checking the display color.

Make the adjustment using the monitor adjustment PCB (See page 34) so that the colors of the color bars should appear properly graduated and the background should become black sufficiently.

To return to the main menu screen, press the 1P start button.

### SOUND OPTIONS

### Setting the sound options

■ Mode for setting and checking the sound options.

Press the 1P start button to select an item. Pull the 1P or 2P gun trigger to change the setting.

To return to the main menu screen, select "SAVE AND EXIT" or "EXIT" and pull the trigger of the 1P gun.

SOUND OPTIONS SOUND OUTPUT MONAURAL SOUND IN ATTRACT MODE ALL THE TIME SOUND VOLUME 12 SOUND SCALE CHECK1 SOUND SCALE CHECK2 SOUND SCALE CHECK3 FACTORY SETTING SAVE AND EXIT EXIT	<ul> <li>Turns on and off the demo play sound.</li> <li>ALL THE TIMESound always on.</li> <li>ONCE EVERY 4 CYCLESSound on every 4 cycles.</li> <li>COMPLETELY OFFSound always off.</li> <li>Adjusts the volume level of voice and sound effects in the range of 0 (mute) to 30 (maximum.).</li> <li>*To raise the sound level, pull the trigger of the 2P gun.</li> <li>*To lower the sound level, pull the trigger of the 1P gun.</li> <li>•Three different "do, re, mi do" musical scales are heard from the right and left speakers.</li> </ul>
(NEED TO PULL 1PLYR TRIGGER) 1PLYR START = SELECT OPTION 1PLYR AND 2PLYR TRIGGER = MODIFY SETTING	•Pull the 1P gun trigger to see if all the settings in this mode go back to the factory ones.

•This screen is just an example.

Adjusting the screen distortion

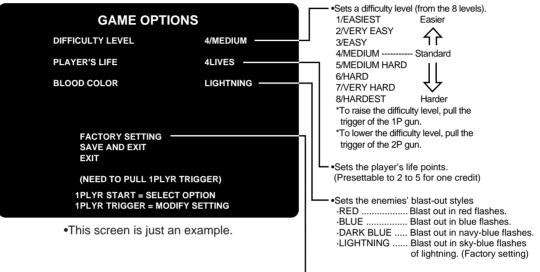
### **GAME OPTIONS**

#### Setting the game options

Mode for setting and checking the game options.

Press the 1P start button to select an item. Pull the 1P or 2P gun trigger to modify the setting.

To return to the main menu screen, select "SAVE AND EXIT" or "EXIT" and pull the trigger of the 1P gun.



•Pull the 1P gun trigger to see if all the settings in this mode go back to the factory ones.

#### **COIN OPTIONS** Setting the coin options Mode for setting and checking the coin options. Press the 1P start button to select an item. Pull the 1P gun trigger to change the settina. To return to the main menu screen, select "SAVE AND EXIT" or "EXIT" and pull the trigger of the 1P gun. •The coin setting options are not displayed when "FREE PLAY" is set to "YES". In such case, remember the games will be free. Selects a free play. COIN OPTIONS YES.....Available for free play. NO.....Not available for free play. NO · FREE PLAY Sets which mode the 1P, 2P and 3P credits are COIN MECHANISM COMMON common or independent in. COIN SLOT1 1COIN 1CREDIT ·COMMON ...... Total of all credits is counted regardless of the number of coin slots PREMIUM START NO ·INDEPENDENT ..... Each credit is counted separately TO START 1 CREDIT for each coin slot. TO CONTINUE 1 CREDIT \*Make the same setting for COIN SLOT1 and COIN SLOT2 when COMMON is selected. FACTORY SETTING SAVE AND EXIT Sets the number of credits for the coin. EXIT (Make the settings referring to the table below.) (NEED TO PULL 1PLYR TRIGGER) Sets the premium start. 1PLYR START = SELECT ITEM Choose from "NO", "YES1", "YES2", "YES3" and "YES4". 1PLYR TRIGGER = MODIFY SETTING (See the figure below) •Sets the number of credits (1 to 5) required to start •This screen is just an example. the game. Sets the number of credits (1 to 5) required to continue the game •Pull the 1P gun trigger to see if all the settings in this mode go back to the factory ones.

•This game machine is equipped with just one coin slot. Keep "COMMON" for the "COIN MECHANISM" entry on the above screen. Also make the same setting for the "COIN SLOT 1" and "COIN SLOT 2" entries.

MEMO -

#### The relationship between the number of coins and the number of credits. — — — •

SETTING	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
COIN(S)	1	1	1	1	1	1	1	2	2	2	3	3	3	4	4	4
CREDIT(S)	1	2	3	4	5	6	7	1	3	5	1	2	4	1	3	5

#### "PREMIUM START" Setting - - - -

•It is possible to set the different numbers of credits for the start of the game and for its continuation. First, select a difference in the number of credits between the start and the continuation among "YES1" to "YES4", and set the number of credits for continuation. The number of credits for start is automatically set as the addition of the number of credits for continuation and the above selected difference. When "PREMIUM START" is not set, the number of credits required for start and that for continuation become the same.

#### Example: "PREMIUM START YES1" selected Credit 1 at continuation + Difference in the number 1 = Credit 2 at start

### BOOKKEEPING

#### Displaying the coin data

MEMO

Mode for displaying the total data on the number of coins put in the machine. If the time is preset in this mode, the total data on the number of coins put into the machine can be viewed by coin slot.

To return to the main menu screen, select "SAVE AND EXIT" or "EXIT" and pull the trigger of the 1P gun.

ADJUST SYSTEM CLOCK	
DATE 1998/7/28 TUE TIME 13:49:00	<ul> <li>Displays the current date and time in 24-hour system. (July 28, 1998, Tuesday, 13:49:00 indicated here)</li> </ul>
DATE 1998/7/28 TUE (GMT) TIME 4:49:00	<ul> <li>Displays the current time (GMT) in the 24-hour system. (July 28, 1998, Tuesday, 4:49:00 indicated here)</li> </ul>
SAVE AND EXIT EXIT (NEED TO PULL 1PLYR TRIGGER)	
1PLYR START = SELECT OPTION 1PLYR AND 2PLYR TRIGGER = MODIFY SETTING	

•This screen is just an example.

### Setting the current time

- **1** Press the 1P start button. Pull the 1P or 2P gun trigger to set the hour.
- **2** Press the 1P start button again. The "minute" figures turn red. Do the same to set the minute.
- **3** Press the 1P start button once more. The "second" figures turn red. Do the same to set the second.
- **4** Now press the 1P start button and select "SAVE AND EXIT". Finally pull the 1P gun trigger.

If the time setting has not been made — for example, after the machine has been set up or initialized —, the "ADJUST SYSTEM CLOCK" screen shows up.
When the time setting has been modified, the bookkeeping information is automatically cleared. With the current time not set, the total of received coins and other bookkeeping data are not displayed.

#### BOOKKEEPING menu screen

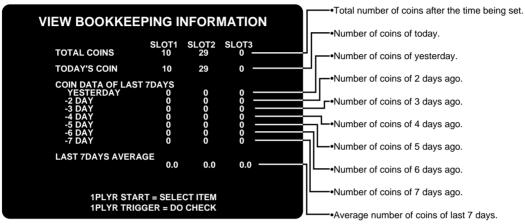
When the time setting has been made and "BOOKKEEPING" is selected on the main menu, the "BOOKKEEPING" menu screen shows up.

BOOKKEEPING	
VIEW BOOKKEEPING INFORMATION CLEAR BOOKKEEPING INFORMATION ADJUST SYSTEM CLOCK EXIT DATE 1998/7/28 TUE TIME 13:49:00	•Displays the bookkeeping information by coin slot.     •Clears the bookkeeping information.     •Sets the current time.     •Displays the current time and the date (year/month/day)     in 24-hour system. (July 28, 1998, Tuesday, 13:49:00     indicated here)
1PLYR START = SELECT ITEM 1PLYR TRIGGER = DO CHECK	

•This screen is just an example.

### VIEW BOOKKEEPING INFORMATION

In this mode, the bookkeeping information is displayed. The number of coins for each of the items can be viewed by coin slot.



•This screen is just an example.

Pull the 1P gun trigger and the total coin data of the past 12 weeks are displayed for each week.

### CLEAR BOOKKEEPING INFORMATION

In this mode, the total coin data is cleared. Before clearing, you are asked to confirm "YES" or "NO" twice. After the data is cleared, the BOOKKEEPING menu screen shows up again.

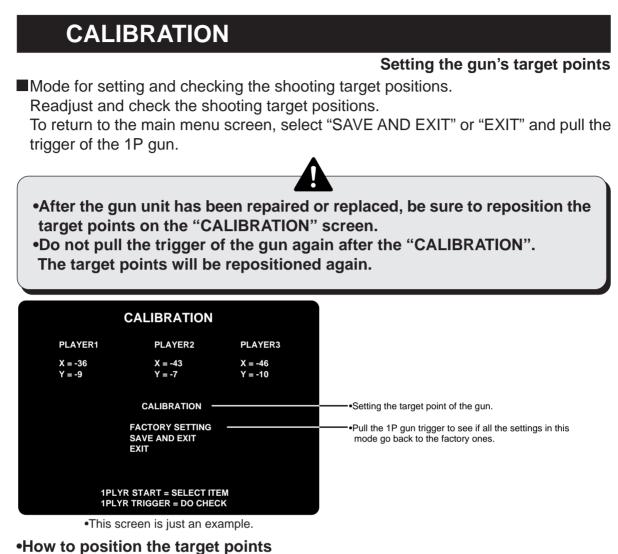
### MASK ROM CHECK

#### **Checking the MASK ROM**

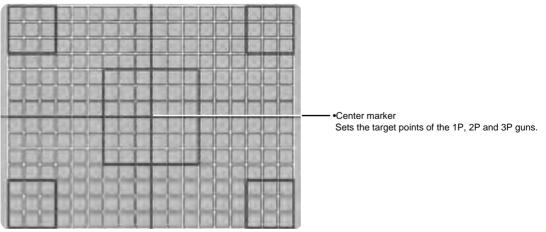
■ Mode for checking the MASK ROM on the game PCB.

If the MASK ROM is not in trouble, "OK" is displayed: if in trouble, "BAD" is displayed. Call the MASK ROM CHECK screen and pull the 1P gun trigger, and the checking gets started. If the 1P start button is pressed before getting this checking started, the main menu shows up again on the screen. To return to the main menu screen after this checking, press the 1P start button.

• If "BAD" appears, immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.



- 1 Select "CALIBRATION" and pull the trigger of the 1P gun.
- 2 A crosshatched pattern appears on the screen. Aim the 1P gun at the screen center and pull its trigger. (If the target point is out of position, the target point on the screen automatically goes to the screen center.) The first pull of the trigger leaves no bullet mark, but the second and following ones leave the bullet marks.



- **3** Check and make the same settings for the 2P and 3P guns.
- **4** To return to the "CALIBRATION" screen, hold down the 1P start button and pull the 1P gun trigger.

### FLASH BRIGHTNESS

### Adjusting the brightness of flashes.

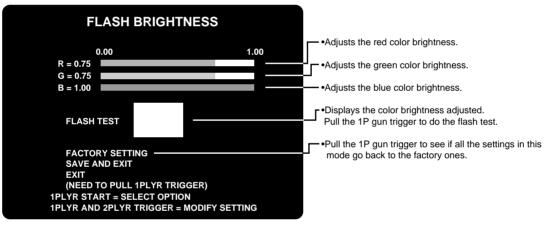
Mode for adjusting the flash brightness on the screen. Press the 1P start button to select an item. Pull the 1P or 2P gun trigger to modify

the setting.

To return to the main menu screen, select "SAVE AND EXIT" or "EXIT" and pull the trigger of the 1P gun.



•It is advisable to adjust the brightness depending on the brightness of the installation place.



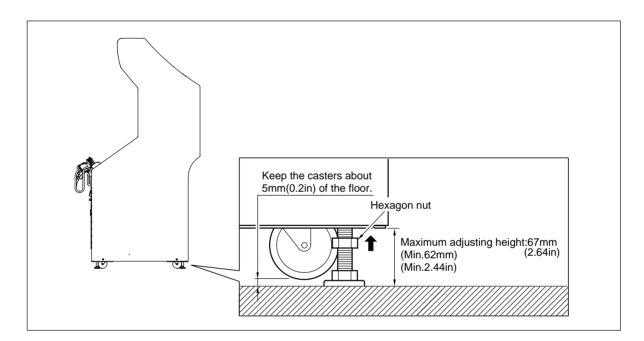
<sup>•</sup>This screen is just an example.

# 6 Setting up the game machine

### 6-1 Fastening the adjusters

How to fasten the adjusters - - -

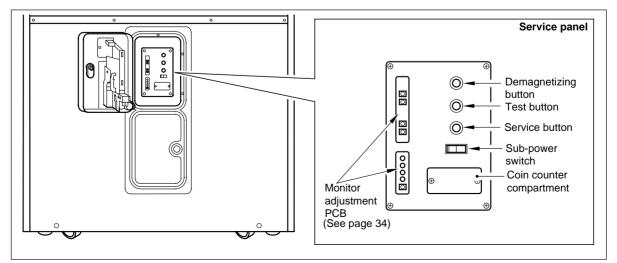
Adjust the adjusters so that the casters do not touch the floor. Take care not to exceed the maximum adjusting height of the adjuster.
Lower the 4 adjusters onto the floor. Make sure that the machine is stable and in a horizontal position. Tighten up the hexagon nuts upward.



### 6-2 Service panel

### 

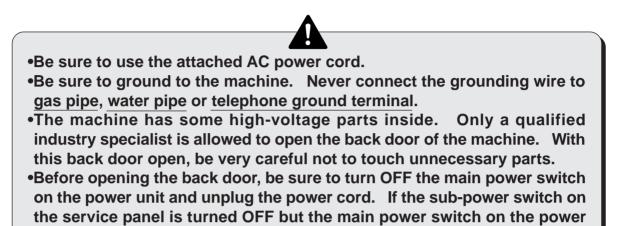
Using the accompaying maintenance key, open and detach the maintenance door to access the service panel inside.

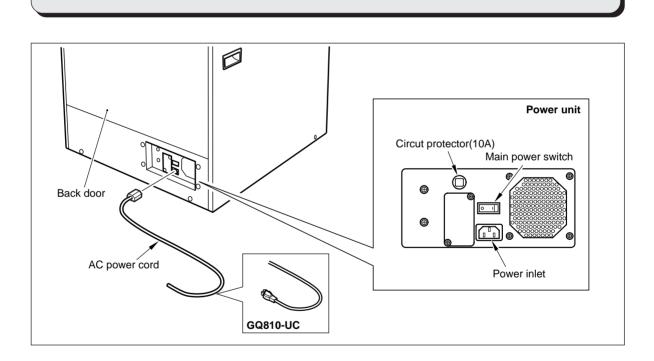


### 6-3 Power unit

**Power unit Power unit** is located on the back of the machine.

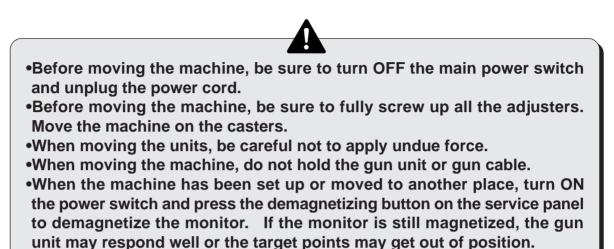
unit is still ON, some parts inside are still on power.





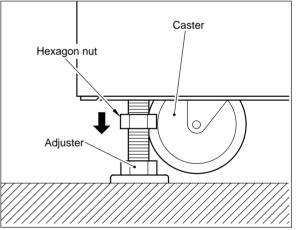
### 6-4 Moving the game machine

How to movement



Be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

- 2 Disconnect the AC power cord from the machine.
- **3** Loosen the four adjusters and move the machine on its casters.



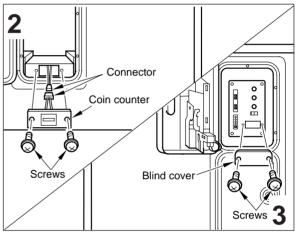
### 6-5 Moving the coin counter

#### How to move the coin counter

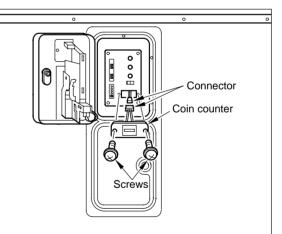
The coin counter was installed in the coin box when the machine left the factory, but it can be moved onto the service panel.

•Before moving the coin counter, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

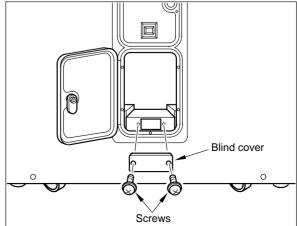
- Be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- 2 Open the coin door, take out the coin box, remove the screws and take out the coin counter. In the meanwhile, disconnect the connector.
- **3** Remove the maintenance door and unscrew the blind cover to remove it from the service panel.



- 4 Draw the connector out of the opening of the service panel and connect this connector to the coin counter's connector.
- 5 Attach the coin counter on the service panel with the screws.



6 Attach the blind cover (detached in Step 3 above) back in position on the coin counter using the screws.



# 7 Maintenance

### 7-1 Replacing the coin selector

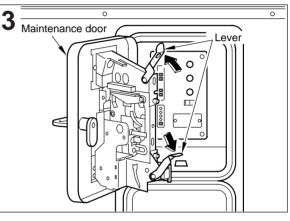
How to replace the coin selector

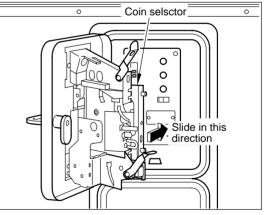
•Before replacing the coin selector, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

•When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.

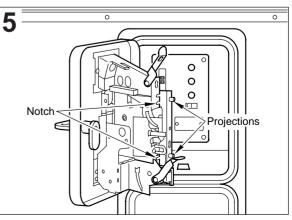
•Never disassemble, repair or modify any section other than those specified in this manual.

- Be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- **2** Open the maintenance door.
- **3** Release the levers that fix the coin selector. See at right.
- 4 Slide the coin selector to the right, and take it out.



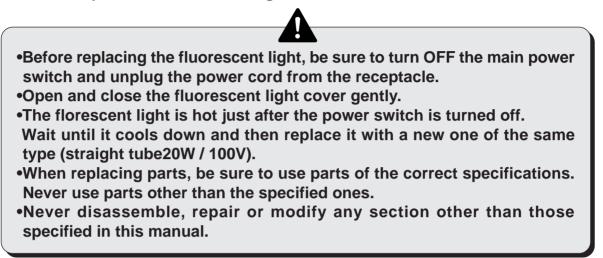


- 5 **To reattach the coin selector** Fit the 2 projections of the coin selector to their mating notches.
- 6 Lock the levers (in Step 3 above) again, and close the maintenance door.

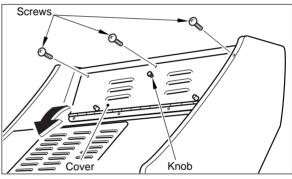


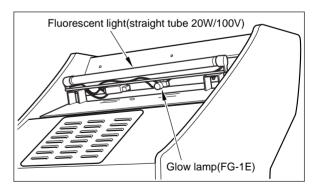
### 7-2 Replacing the fluorescent light

How to replace the fluorescent light --

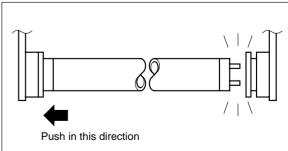


- Be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- 2 Remove the screws off the back cover, and hold the knob and gently open the cover.





**3** Push one end of the fluorescent light in the direction of the socket. The other end of the fluorescent light will be detached from the opposite socket.



- MEMO

4 Install a new fluorescent light in the reverse order and close the cover.

• It is recommended to replace the glow lamp at the same time.

### 7-3 Replacing the start button

How to replace the start button =

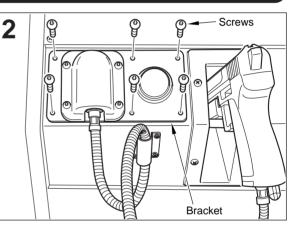
- •Before replacing the start button, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- •When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.
- •Never disassemble, repair or modify any section other than those specified in this manual.
- Be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- 2 Remove

1

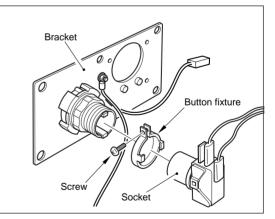
Remove the screws and detach the bracket.

- MEMO ·

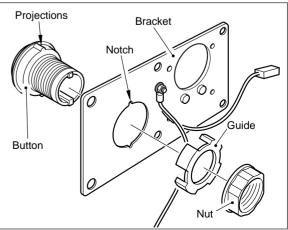
•Be careful not to pull the gun cable located behind the bracket.



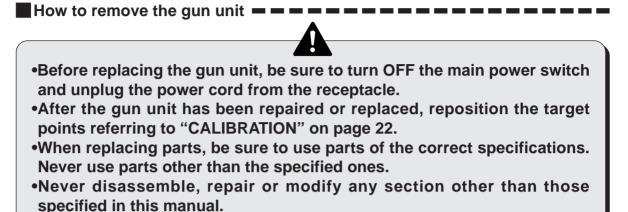
- **3** Remove the screw off the button fixture that fixes the button and socket together. Take out the button fixture.
- **4** Draw the socket from the button.



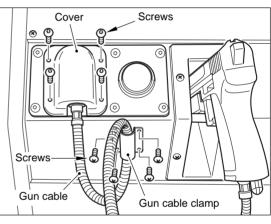
- 5 Loosen the nut and separate the button.
- 6 **To fit the button again** Fit the projection of the button to its mating notch of the bracket.
- 7 In reassembling the parts, take the reverse order. Pay attention to the socket's direction.

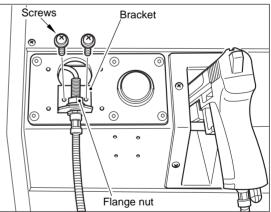


### 7-4 Replacing the gun unit

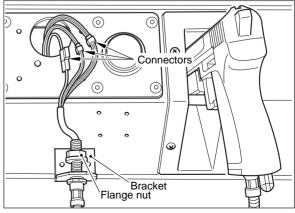


- Be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- 2 Remove the screws and detach the gun cable clamp.
- **3** Remove the screws and detach the gun cable connection cover.
- 4 Loosen the flange nut off the gun cable, and remove the screws off the bracket.



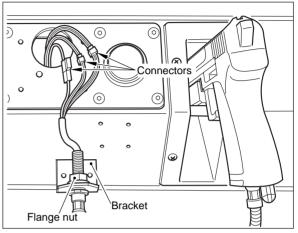


- 5 Detach the bracket and pull out the connectors.
- **6** Disconnect the connectors, remove the flange nut and take the gun cable from the bracket.

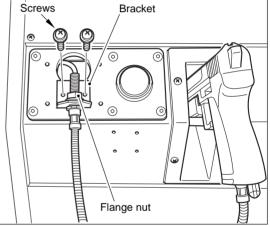


### How to set up the gun unit --

- Pass the gun cable through the bracket. Apply and lightly tighten the flange nut.
- **2** Reconnect the gun cable connectors.



- **3** Fix the bracket with the screws and tighten up the flange nut.
- 4 Mount the cover and the gun cable clamp into position.

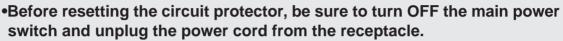


5 Check the PCB settings, referring to "5-1 PCB start-up check (self-test)" on page 14. Check the gun performance, referring to "I/O CHECK" and position the guns' target points, referring to "CALIBRATION" on page 22.

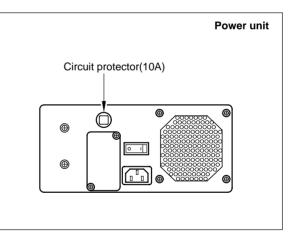
### 7-5 Resetting the circuit protector

#### How to reset the circuit protector

If an overcurrent or short circuit occurs, the circuit protector will be automatically actuated to protect the electric circuits of the game machine. When resetting the circuit protector, turn OFF the main power switch, unplug the power cord from the receptacle, eliminate the cause, and then press the button of the circuit protector.



- •If the circuit protector trips soon again, immediately turn OFF the main power switch, unplug the power cord, and contact your nearest dealer.
- •The machine has some high-voltage parts inside. Only a qualified industry specialist is allowed to open the back door of the machine. With this back door open, be very careful not to touch unnecsessary parts.
- •If the machine is in abnormal conditions and does not operate normally, immediately turn OFF the power switch, unplug the power cord from the receptacle and contact your nearest dealer.
- Be sure to turn OFF the main power swith and unplug the power cord from the receptacle.
- 2 Remove the cause of the trouble. Press the button on the circuit protector of the power unit.

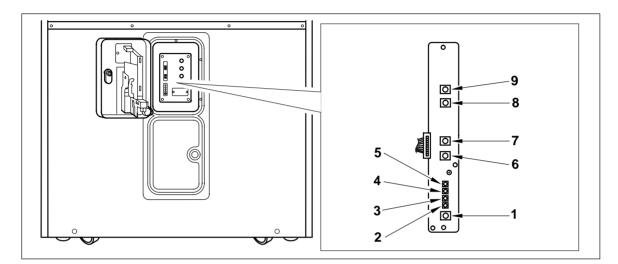


### 7-6 Adjusting the monitor

### 

The monitor has already been adjusted at the time of shipment, but it may be readjusted as desired.

The monitor adjustment PCB is located inside the service panel. When adjusting the monitor, open the maintenance door. (See page 12)



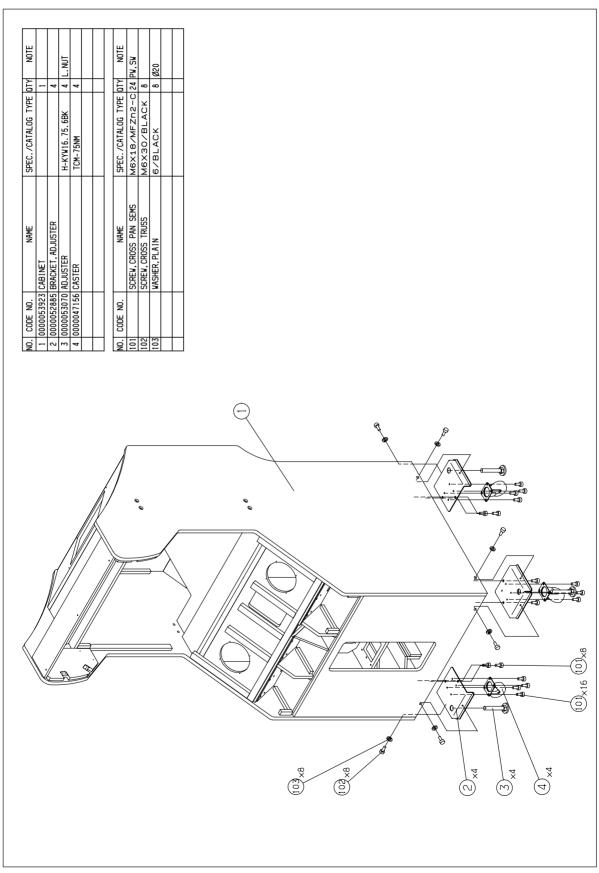
1	CONTRAST	Contrast adjustment Used to changes the contrast.			
2	R.GAIN	Red input gain adjustment Changes red brightness. Turning it clockwise will make the red deeper.			
3	G.GAIN	Green input gain adjustment Changes green brightness. Turning it clockwise will make the green deeper.			
4	B.GAIN	Blue input gain adjustment Changes blue brightness. Turning it clockwise will make the blue deeper.			
5	BRIGHT	Brightness adjustment Changes brightness. Turning it clockwise will make the image brighter.			
6	H.SIZE	Horizontal screen size adjustment Changes the width of the screen.			
7	H.POSI	Horizontal image position adjustment Changes the image position in the horizontal direction.			
8	V.SIZE	Vertical screen size adjustment Changes the height of the screen.			
9	V.POSI	Vertical image position adjustment Changes the image position in the vertical direction.			

Label -

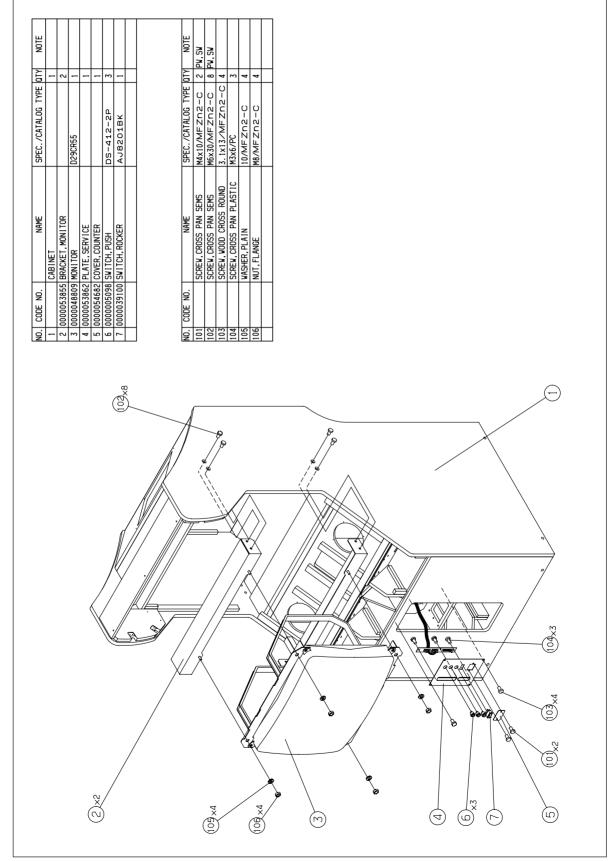
# 8-1 Label locations and exploded view

No.	Code No.	Name	Quantity	Note
1	0000053902	LABEL, KONAMI / L	2	
2	0000053892	LABEL, SIDE A / L	1	
3	0000053893	LABEL, SIDE A / R	1	
4	0000053894	LABEL, SIDE B / L	1	
5	0000053895	LABEL, SIDE B / R	1	
6	0000055527	LABEL, INST A / TB	1	
7	0000055529	LABEL, INST B / TB	1	
8	0000055530	LABEL, INST C / TB	1	
9	0000055531	LABEL, START / TB	1 set	
10	0000053896	LABEL, FRONT / L	1	
11	0000053897	LABEL, FRONT / R	1	

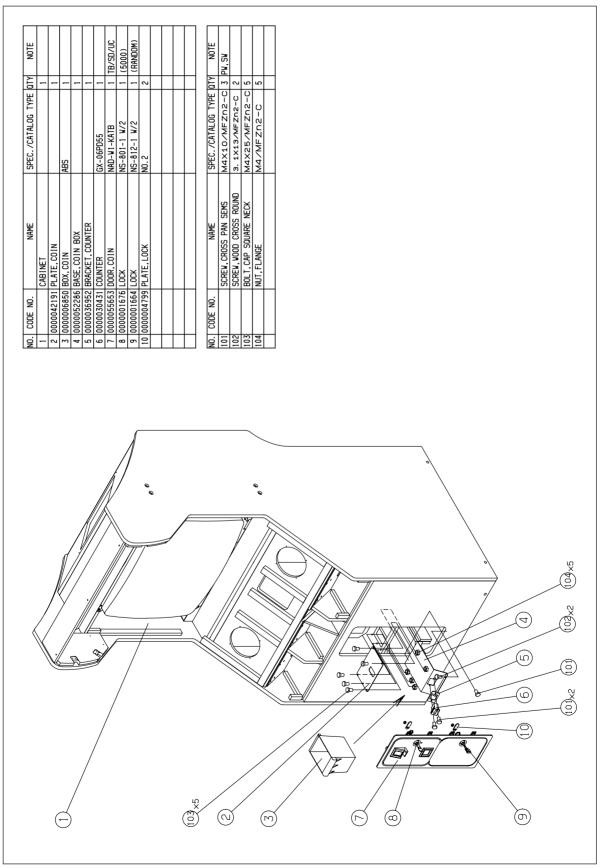
FIG.1 UNIT, CABINET(1/7) = = = = =



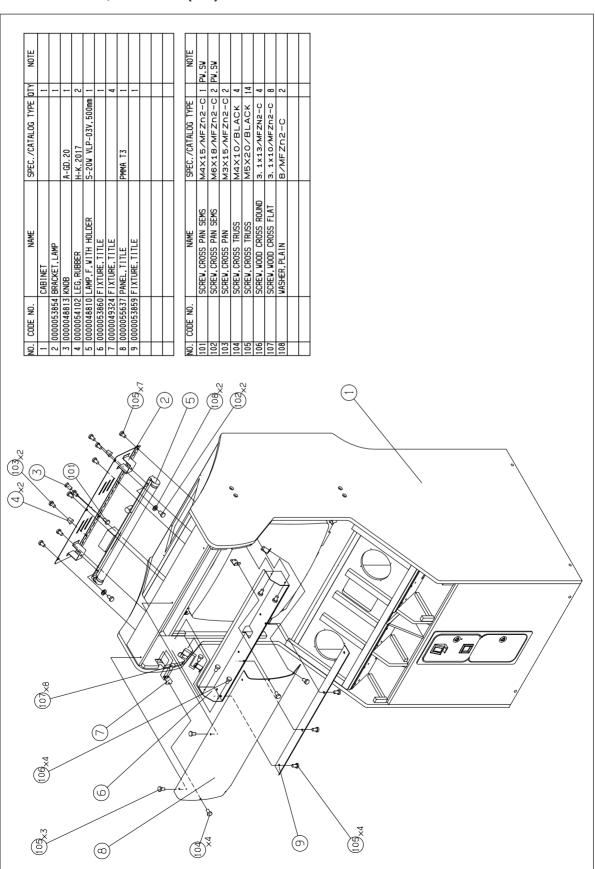
8 Annex



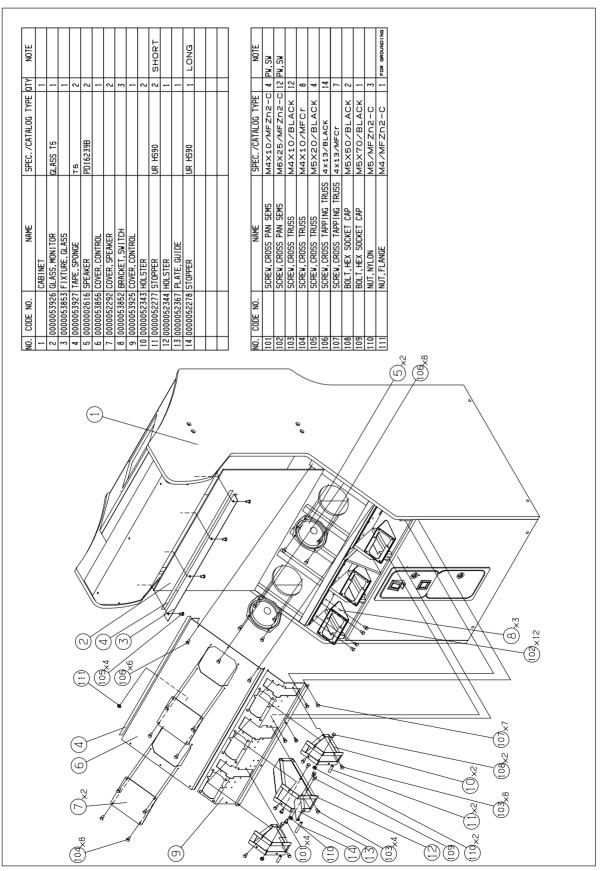
## FIG.2 UNIT, CABINET(2/7) ---



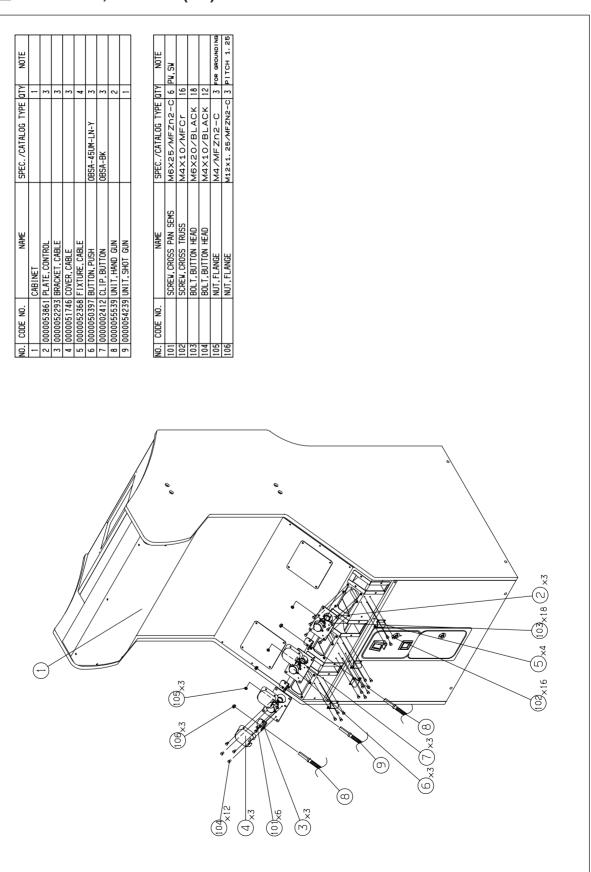
# FIG.3 UNIT, CABINET(3/7) =



8 Annex

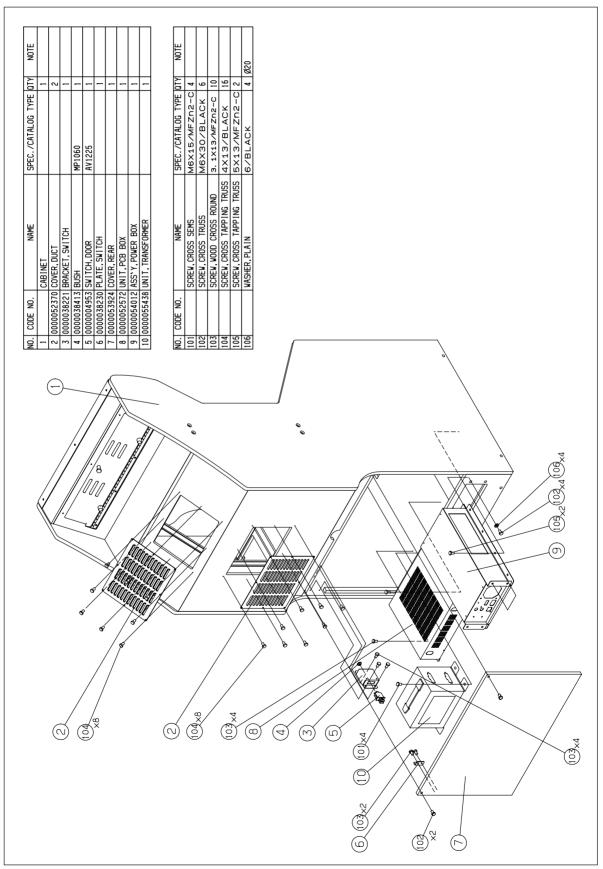


### FIG.5 UNIT, CABINET(5/7) = =

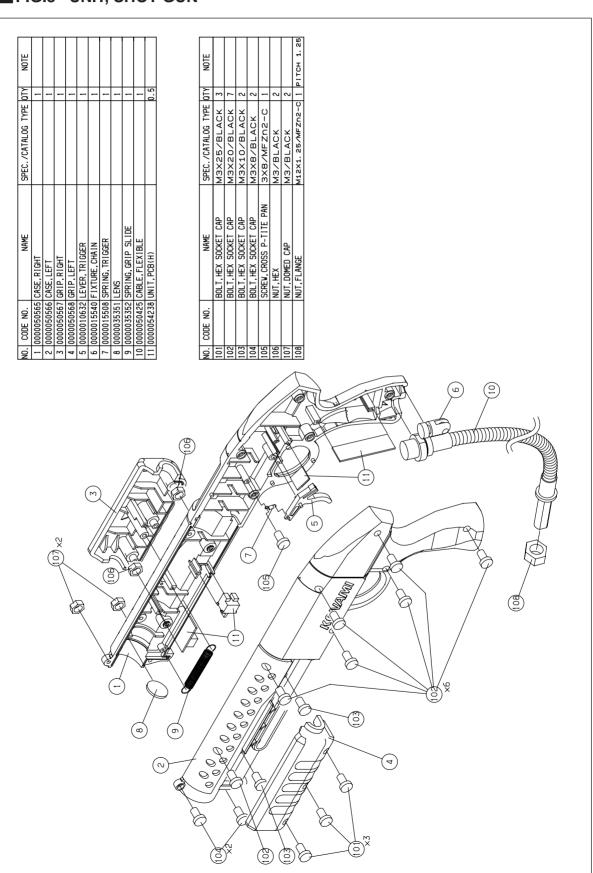


## FIG.6 UNIT, CABINET(6/7) -

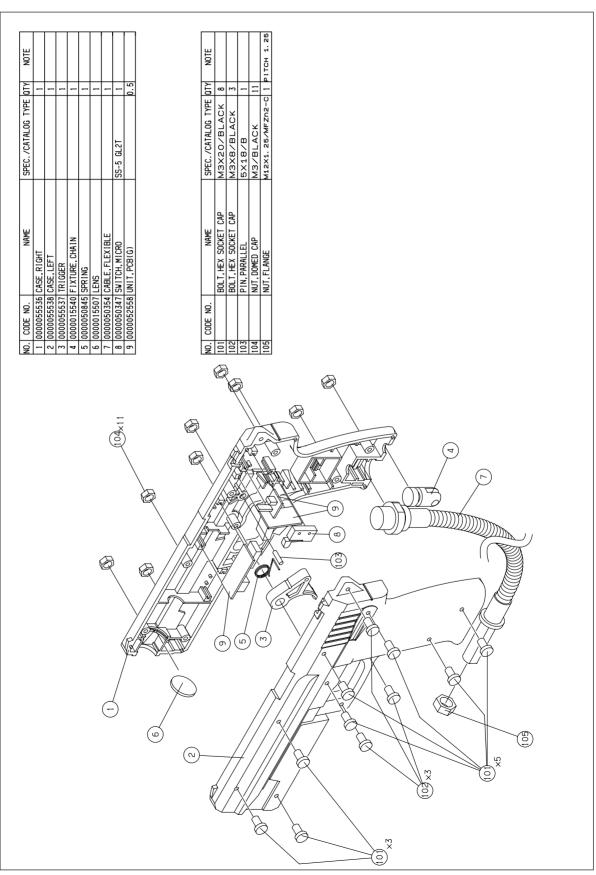
8 Annex

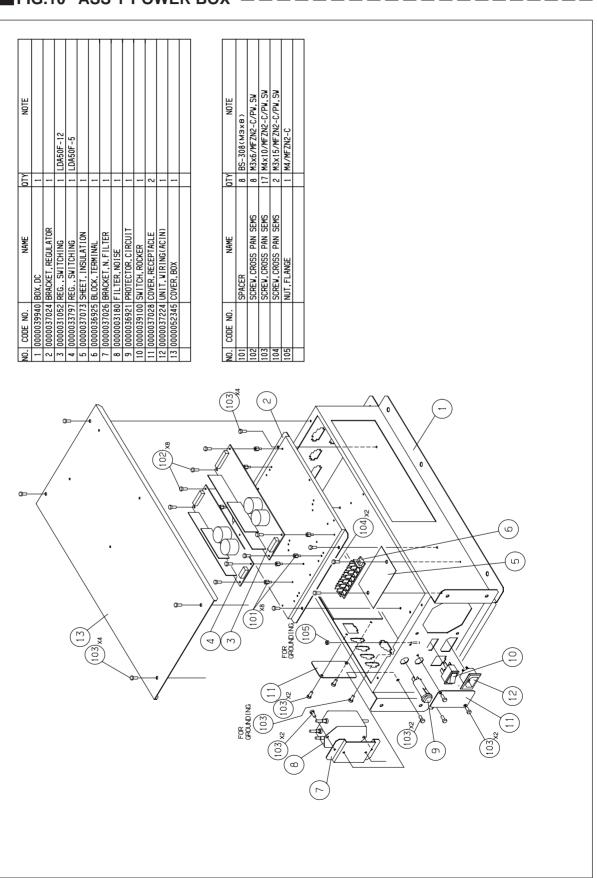


## FIG.7 UNIT, CABINET(7/7) ---

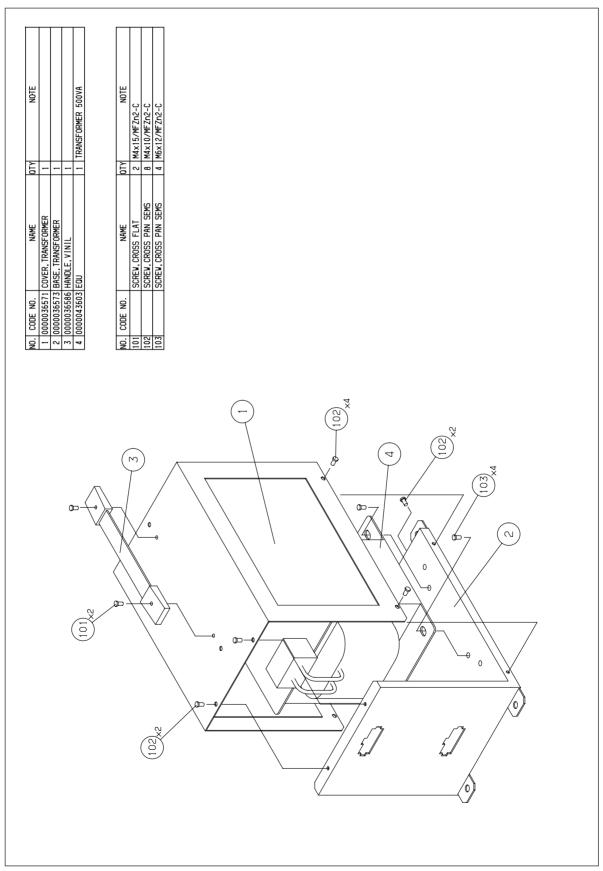


### FIG.8 UNIT, SHOT GUN



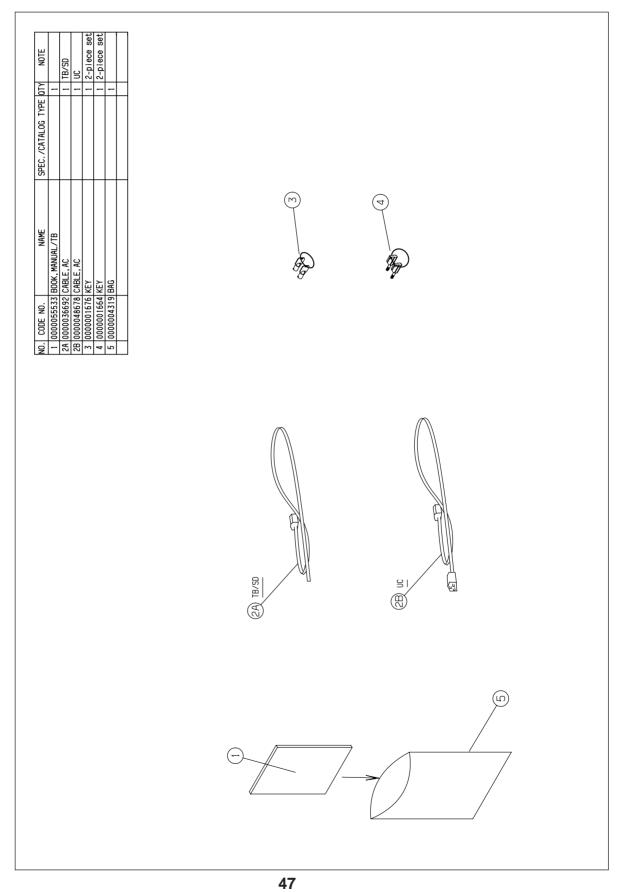


8 Annex

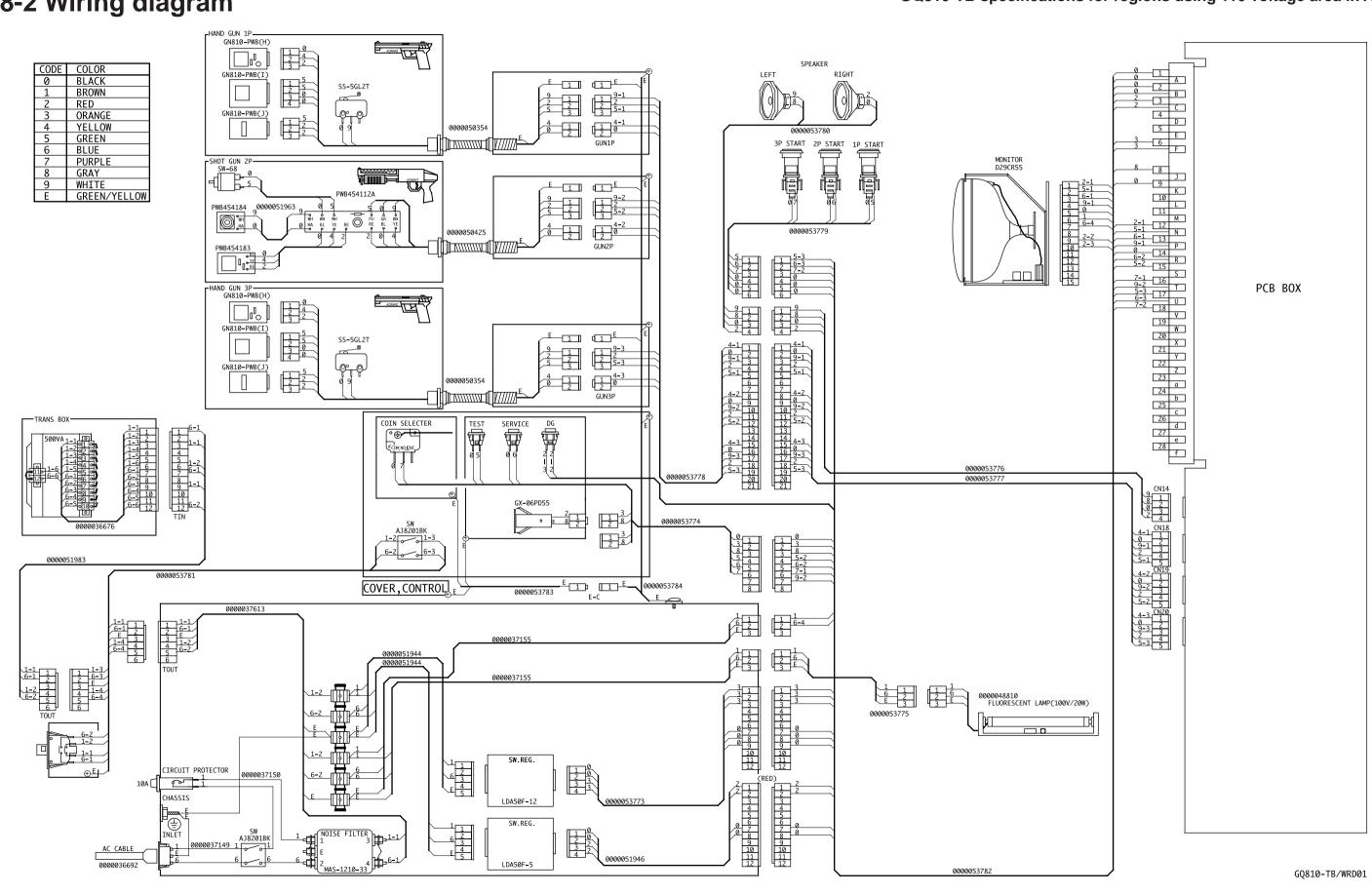


## FIG.11 UNIT, TRANSFORMER





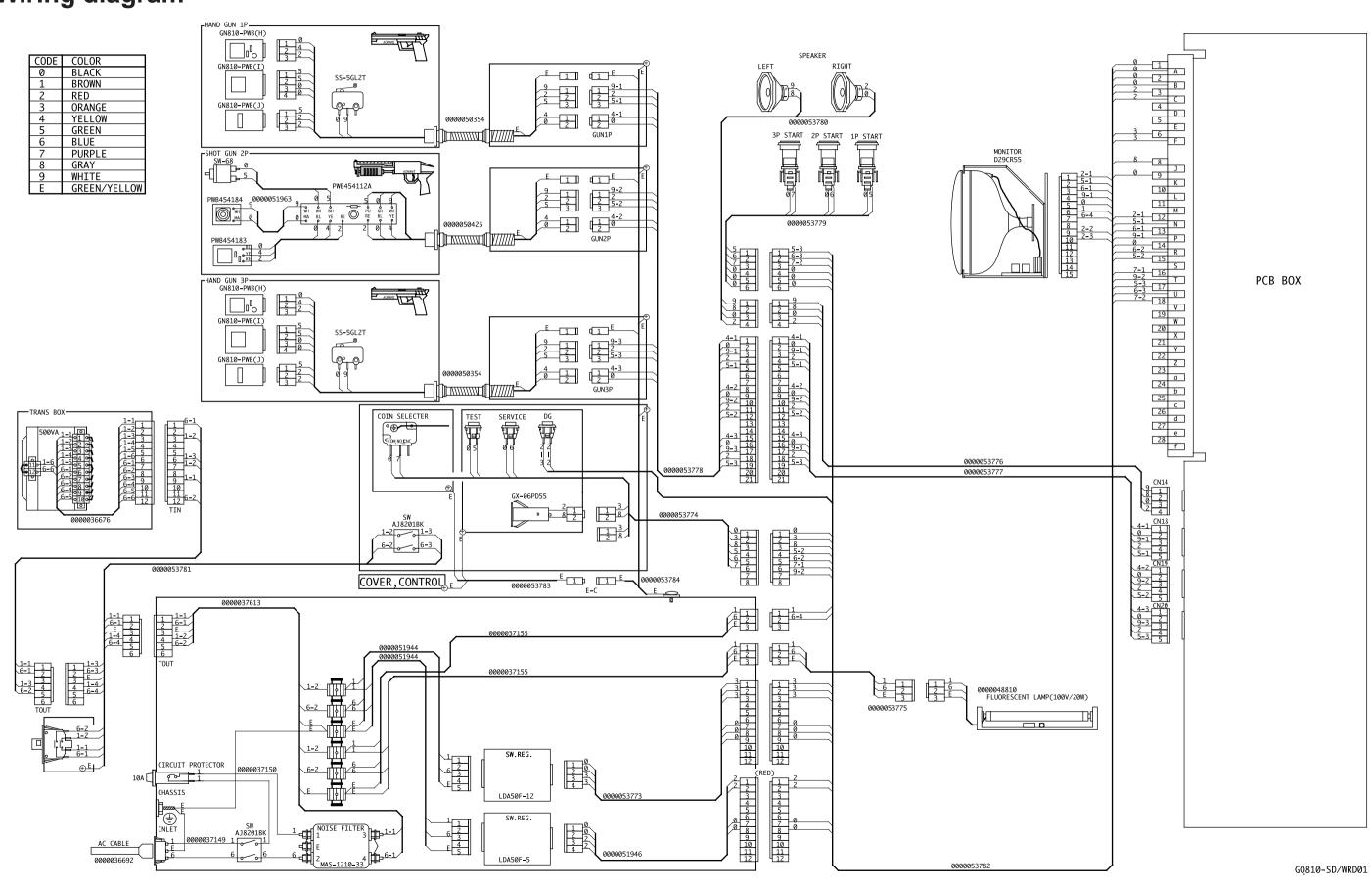
# **MEMO**



# 8-2 Wiring diagram

### GQ810-TB specifications for regions using 110 voltage area in Asia.

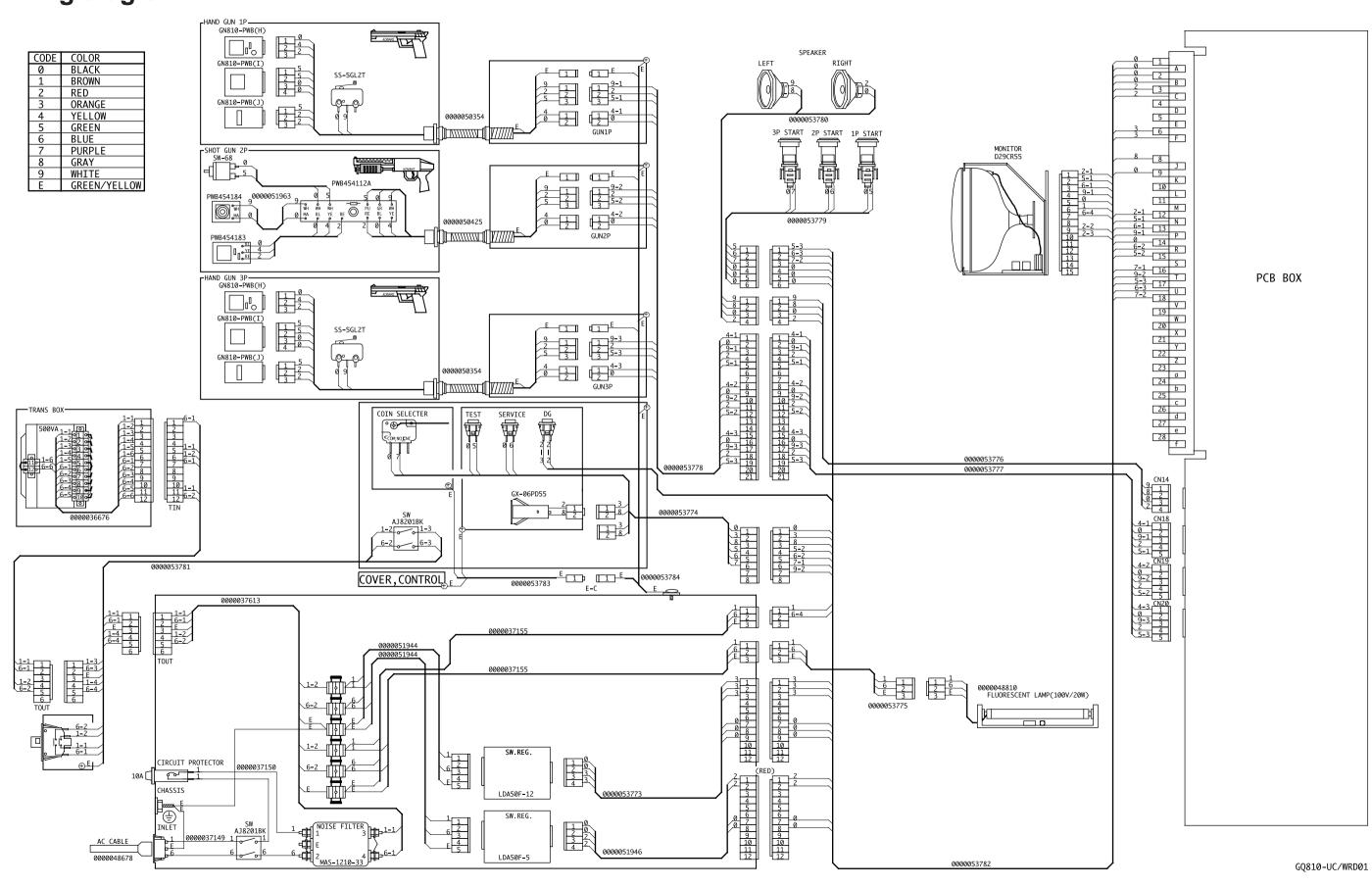
GQ810-TB/WRD01



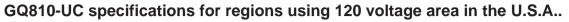
# Wiring diagram

### GQ810-SD specifications for regions using 220 voltage area in Asia.

GQ810-SD/WRD01



# Wiring diagram



GQ810-UC/WRD01