

**OnPoint**™

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**OnPoint**

# Owner's Manual

## **Caution**

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

*Note: the contents of this manual may be updated without notice.*



# Preface

---

Thank you very much for purchasing our 「OnPoint」 game machine.

## Purpose of this instruction manual

This manual includes handling methods and precautions for use.

Read this manual carefully and keep it in a safe place so that it can be used as a reference at any time.

If you lose this manual, contact your local distributor to obtain a new one.

## Technical Service/Advance Replacement Parts:

Contact your local distributor.

## FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

# Important information for safety

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

## Definition of personnel in this manual:

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

- **Management staff**

Staff who operate and maintain amusement sites or shops under the supervision of the owners of 「OnPoint」.

- **Arcade maintenance man**

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

- **Engineer**

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

- **Player**

Person who play games at facilities and shops where 「OnPoint」 is installed.

## Explanation of the safety symbols:

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



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



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



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

## Cautions for safety

### CAUTION

- **Be sure to use a tracer BB (Ball bullet) of 0.12g of genuine product for Gun device.**  
Using defect ball bullets or imitation will cause failure and will not be able to receive after service.
- **Gun device will not be fire if there is an obstacle within 1,300mm from the muzzle.**
- **Do not use it as an abnormal condition, such as smoke or strange smell or noise.**  
It can cause electric shock and fire.  
Turn off the power switch immediately, unplug the power cable, and contact your local distributor.
- **The power capacity of this product is marked at the bottom of the monitor cabinet label.**  
Use indoor wiring to meet the power specification, it may cause electric shock and fire.  
※ Please check the specifications for each country.
- **Do not reseal the power plug with wet hands. It can cause an electric shock.**
- **The included power cable is for this product only.**  
Observe the following when using power cables:  
·Do not use the supplied power cable for other equipment or applications.  
·The power cable must be used exclusively for this product.
- **Do not use a damaged power cable. It can cause electric shock and fire.**  
Observe the following when handling power cables:  
·Do not process the power cable.  
·Do not put heavy things on the power cable.  
·Do not bend or pull forcefully.
- **Do not wire too many power cables at one place.**  
It generates heat and causes the fire.
- **Use caution when handling power plug.**  
Mishandling can cause a fire.  
Observe the following when working with power plugs:  
·Do not plug with foreign substance such as dust stuck on it.  
·Insert the power plug firmly.
- **Be sure to check the ground lead.**  
It can cause an electric shock or failure. Be sure to use the connection from the ground lead.
- **Do not leave any foreign material, water, or other liquid inside.**  
It can cause electric shock and fire.  
Turn off the power switch immediately, unplug the power cable, and contact your local distributor.
- **Be careful of the fire (tobacco).**  
This product does not have a fire alarm, so be careful not to touch any tobacco.
- **Do not modify (reform) any parts of this document that are not instructed to do so.**  
·It can cause electric shock and fire.  
·If an accident occurs due to disassembly, repair or alteration of parts without instructions, we will not be held liable for any damages to third parties.

About Warning label

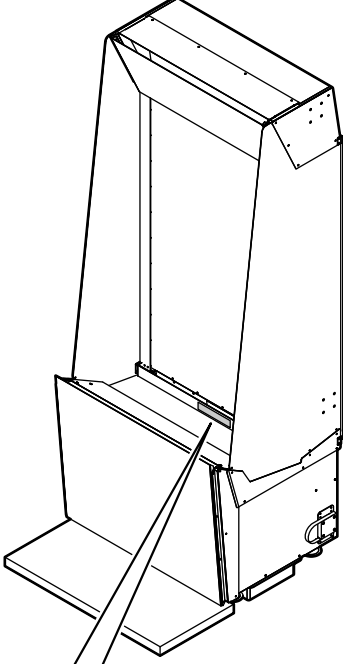
Important information for safety

## ! WARNING

- The warning labels on this product should easily legible, install the machine at a proper location with ample illumination and keep the labels clean at all times. Also, make sure that the labels are not hidden behind another game machine or other objects.
- If the warning label is damaged, replace it with a new sticker (If you wish to order a warning label, please contact local sales representative.)

● Warning label attachment

**Video cabinet Assy**



**! WARNING**

**CAUTION HIGH VOLTAGE**

High voltage can cause an electric shock, Do not open other than service personnel,

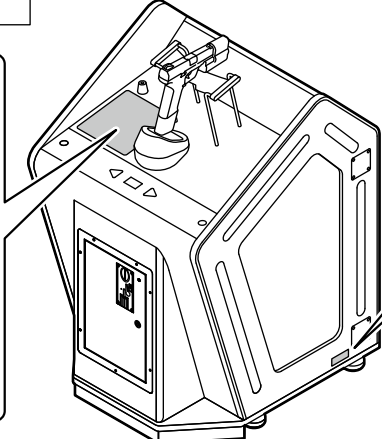
[G1001389 VOLTAGE WARNING STICKER]

**! CAUTION**

Anyone who has had a seizure when viewing lights or patterns from television games, be cautious when playing the game, Stop playing and rest if you experience altered vision or disorientation,

[G1002826 CAUTION STICKER-(HIKARISIGEKI)]

**Shooting cabinet Assy**



**! CAUTION**

**TERMS AND CONDITION FOR USE**

OnPoint is a shooting game that shoots BB bullets onto the game screen with Airsoft gun. For the player's own safety, please read the following terms and conditions before playing.

1. Player **MUST** wear the safety glasses on at all times when entering the shooting area and/or playing OnPoint.
2. Do **NOT** touch the Airsoft gun unless you are the game player.
3. Do **NOT** look into the muzzle of the Airsoft gun in any circumstances.
4. Do **NOT** bring your face close to the side of the Airsoft gun as it will blowback.
5. Do **NOT** point the muzzle of the Airsoft gun at people or other than the game screen.
6. Keep your fingers off the trigger until you are ready to aim the game screen.
7. Do **NOT** aim or shoot outside of the game screen.
8. Do **NOT** handle roughly or damage the Airsoft gun. If the Airsoft gun or any equipment in the store is damaged or destroyed, any damage and expenses caused by the player shall be fully compensated to our or our affiliates.
9. Please refrain from playing OnPoint while drinking alcohol.
10. If you find any problems with Airsoft gun, please stop playing and contact your local staff.

\* We shall not be held responsible for any injuries or accidents due to wrong use or misuse by player raising from using OnPoint. The Player shall be responsible for their own safety when playing OnPoint.

**! WARNING**

Be sure to install Horizontal and Vertical Scale correctly for safety.

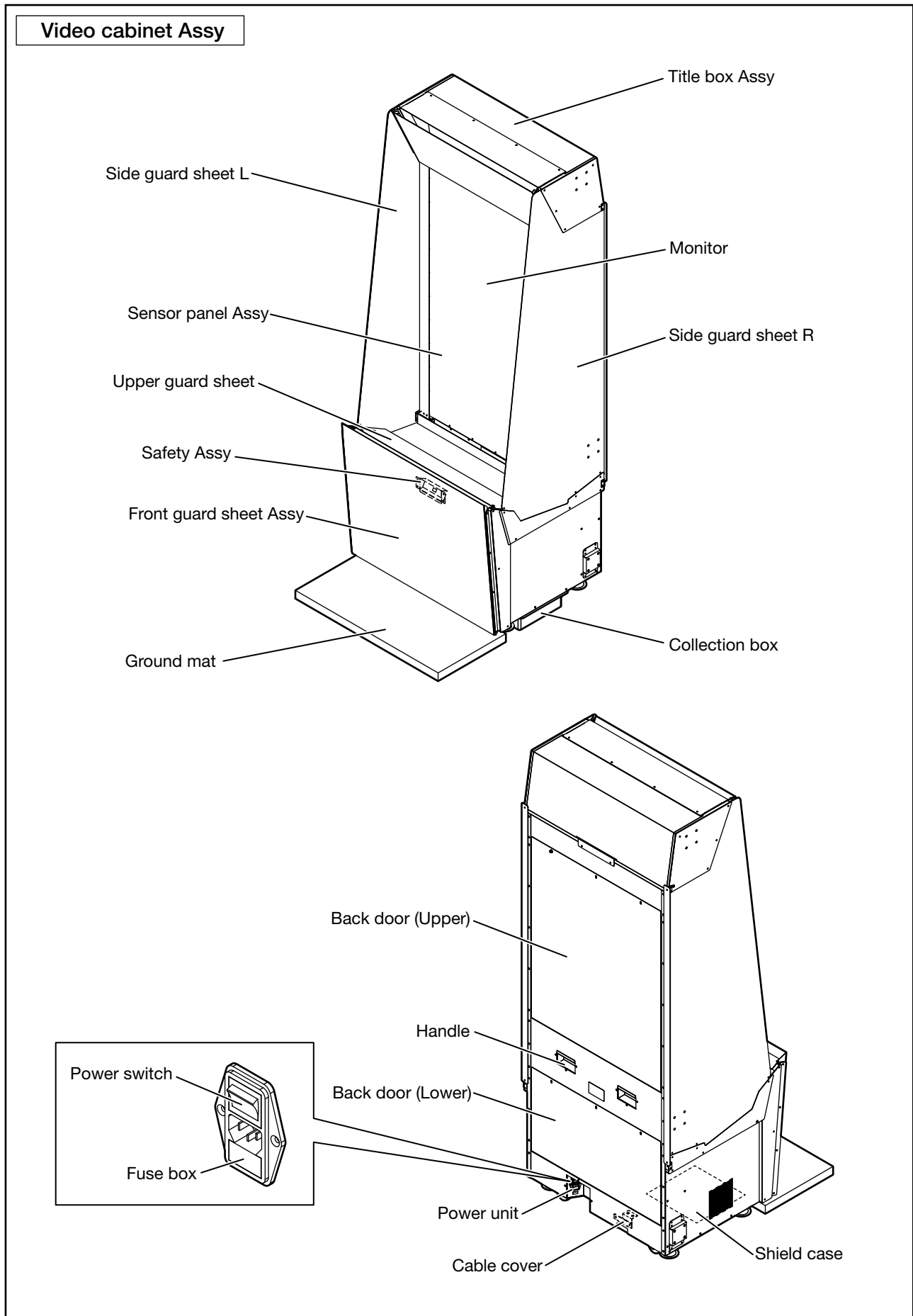
4 Important information for safety

# Contents

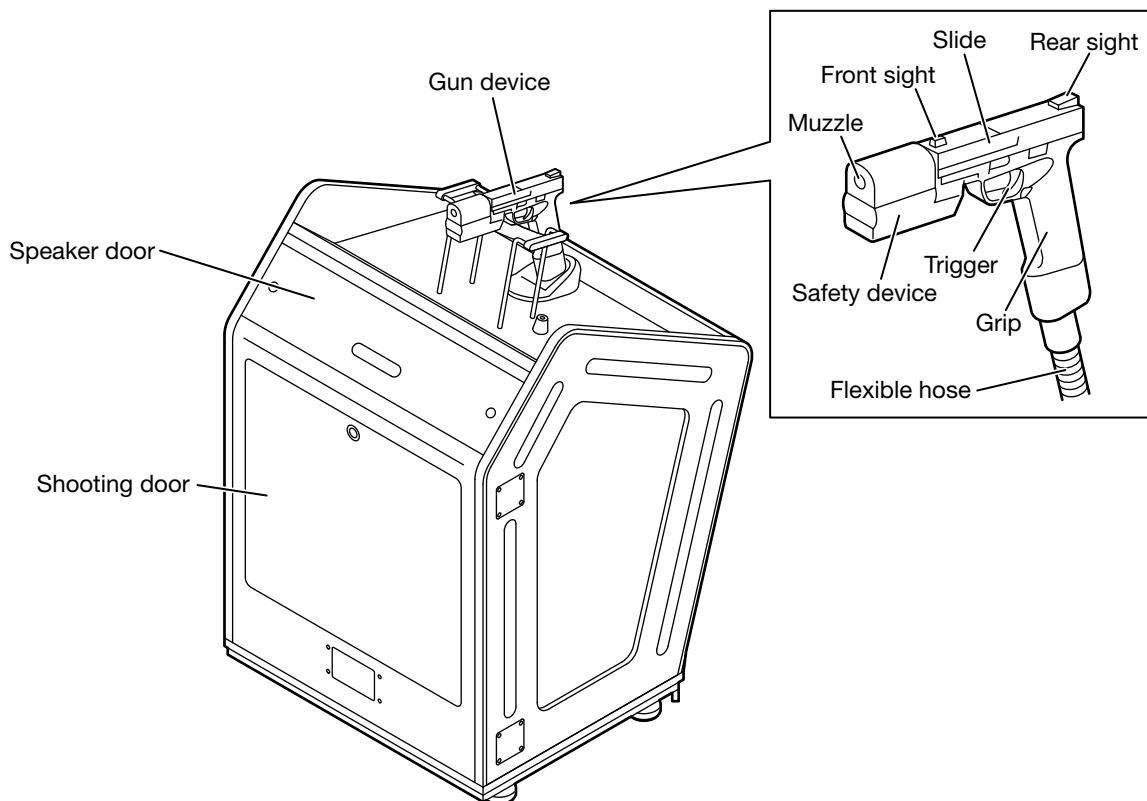
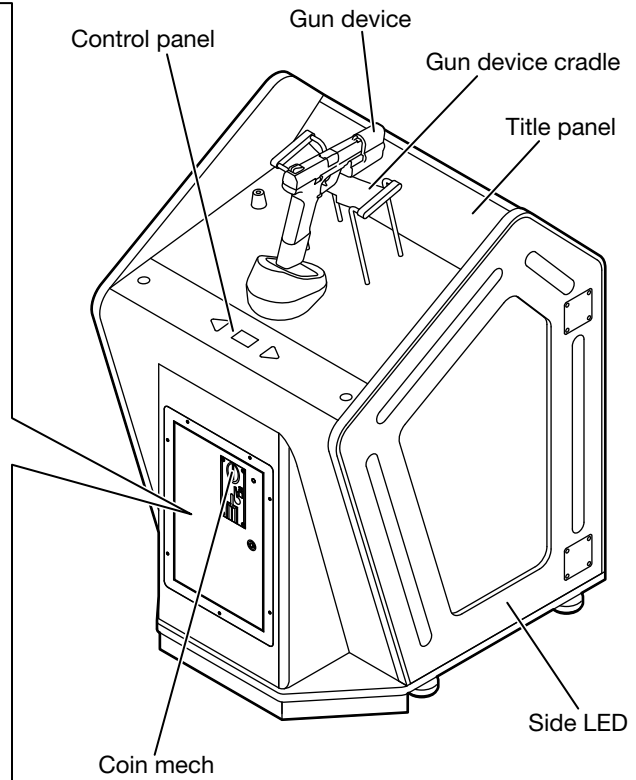
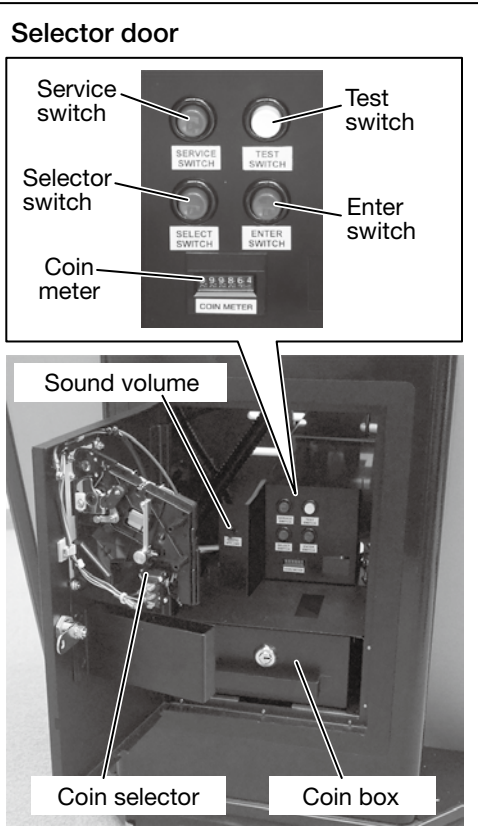
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# Product overview

## Name of each part



Shooting cabinet Assy



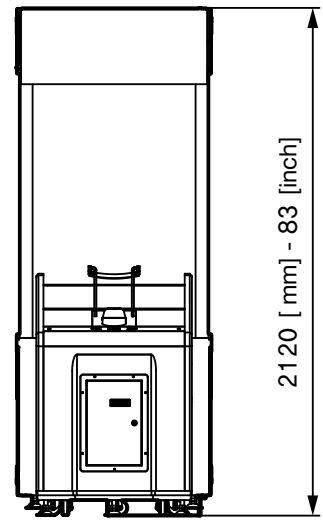
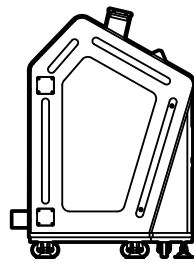
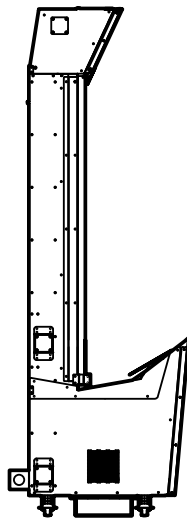
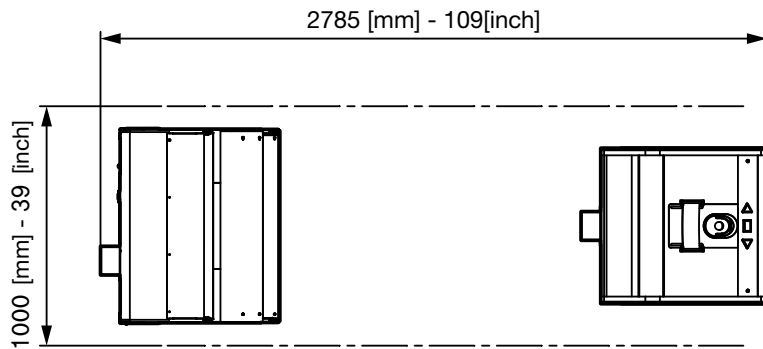
### Product specification list

OnPoint specifications	
Item	data
External dimensions	For installing one unit 1000(W) × 2785(D)× 2120(H)mm 39(W) × 109(D)× 83(H)inch Height without Title Box Assy : 1865mm / 73inch
Weight	Approx. 281 kg / 620 lbs
Rated power supply	AC100V~120V or 200V~240V(50/60Hz)
Rated power consumption	270W
Maximum current consumption	3A(50/60Hz)
BB dispenser capacity	20,000pcs
BBs collection box capacity	20,000pcs

- ※ The maximum number of input coins is 99.  
For more than 99 coins, coin lockout is automatically returned when coin is inserted.
- ※ Please check the specifications for each country.

## External dimensions

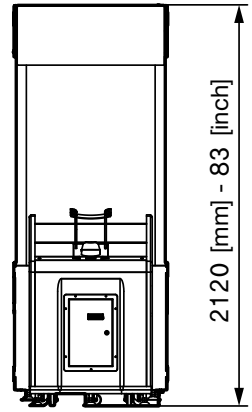
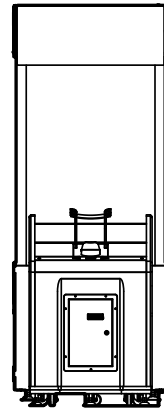
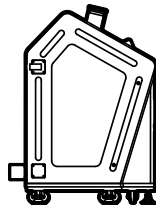
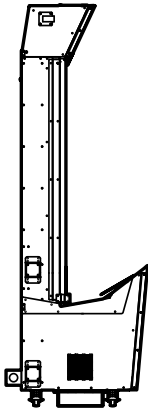
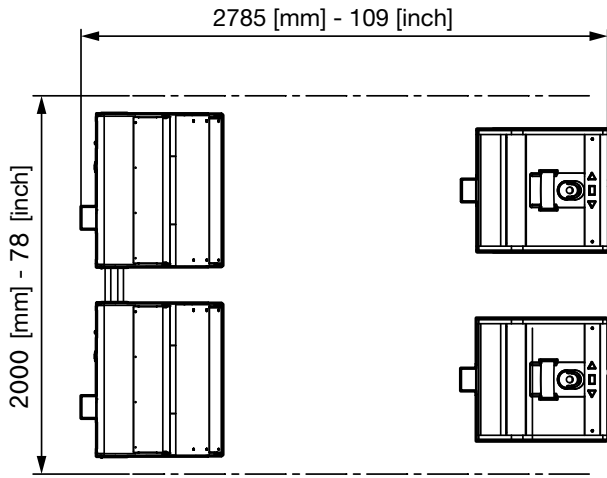
For installing one unit



※ To improve performance, the appearance and specifications of the safety bar are subject to change without notice.

# Product overview

For installing more than two units

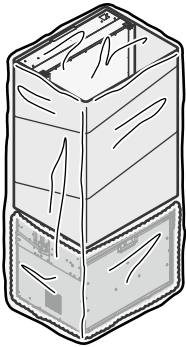


※ To improve performance, the appearance and specifications of the safety bar are subject to change without notice.

## Packaging

This product is shipped as below.

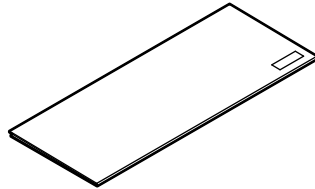
You may need packaging cases and materials for repackaging, so please keep them safe.



Video cabinet(1/5)

External Dimensions : 810x575x1865 mm  
31x22x73 inch

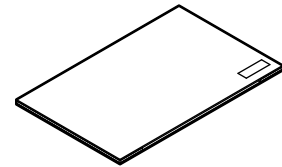
Weight : Approx. 138kg / 304 lbs



Packing case(2/5)

External Dimensions : 1700x675x25 mm  
66x26x1 inch

Weight : Approx. 6kg / 13 lbs



Packing case(3/5)

External Dimensions : 1255x800x35 mm  
49x31x1 inch

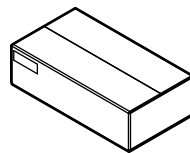
Weight : Approx. 6kg / 13 lbs



Shooting cabinet(4/5)

External Dimensions : 730x780x1330 mm  
28x30x52 inch

Weight : Approx. 80kg / 176 lbs



Packing case(5/5)

External Dimensions : 377x832x306 mm  
14x32x12 inch

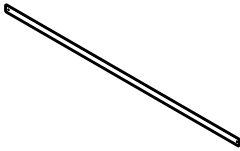
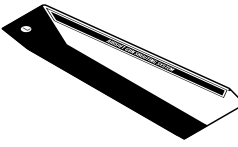
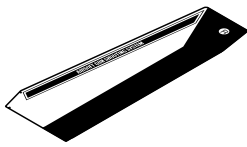
Weight : Approx. 18kg / 39 lbs

## Packed items list

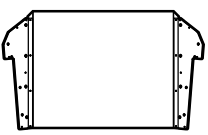
Make sure that all items are delivered before installation. If there is any shorted, or missed item, contact the dealer where you purchased the game machine.

### Packed items


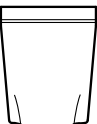
Store within accessories (2/5)

Name (Accessory parts)	Qty.	Name (Accessory parts)	Qty.
BACK GUARD SHEET [F9009403] 	<b>2</b>	SIDE GUARD SHEET-L-(MIDDLE) 	<b>1</b>
SIDE GUARD SHEET-R-(MIDDLE) 	<b>1</b>		

Store within accessories (3/5)

Name (Accessory parts)	Qty.
FRONT GUARD SHEET ASSY [M9009342] 	<b>1</b>

Store within accessories (4/5)








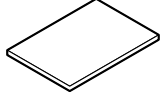
Name (Accessory parts)	Remark	Qty.
POWER CABLE 	Included in the Coin box	<b>1</b>
BBs 	Included in the BB dispenser	<b>1 bag (1kg/ 2lbs)</b>

Store within accessories (5/5)

Name (Accessory parts)	Qty.	Name (Accessory parts)	Qty.
SIDE GUARD PLATE-(FRONT) [E3104389]	<b>2</b>	SIDE GUARD PLATE-(MIDDLE) [E3104390]	<b>2</b>
SIDE GUARD PLATE-(TITLE) [E3104391]	<b>2</b>	BACK GUARD BRACKET [E3104369]	<b>4</b>
GROUND MAT [H9001008]	<b>1</b>	HARNES HOSE ASSY	<b>1</b>
UPPER GUARD SHEET [G9001502]	<b>1</b>	SLOPE UPPER LH [E5060898]	<b>1</b>
SLOPE UPPER RH [E5060899]	<b>1</b>	BBs collection box [H9001007]	<b>1</b>

## Product overview

Store within accessories (5/5)

Name (Accessory parts)	Qty.	Name (Accessory parts)	Qty.
Torx bolt (Black) M4×8 	<b>10</b>	Sems allen bolt (Black) M6×30 	<b>4</b>
Sems up set bolt (W) M6×18 	<b>3</b>	Pan head screw (Black) M4×16 	<b>36</b>
Sems screw (W) M4×16 	<b>8</b>	Flat Washer 4.5×18×1.6T 	<b>4</b>
Pan head screw (Black) M4×8 	<b>8</b>	Instruction Manual SERVICE INSTRUCTION 	<b>1</b>

## Supplied key list

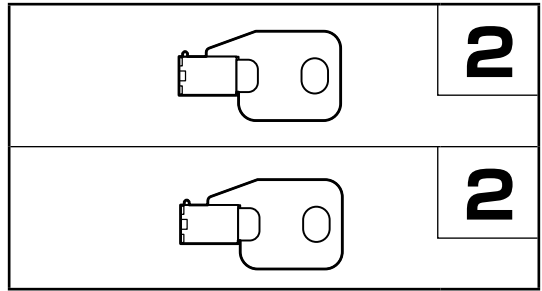
If you lose the service keys, please contact the local sales representative.

### ■ Service key : 7001

key to the selector door.

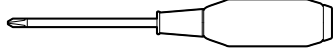
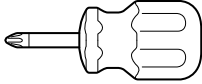
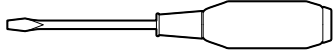
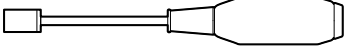

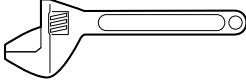

### ■ Cash key : 6001

key to the coin box.



## Installation tools

The tools used in this document are shown in the table below.

Name		
Phillips screwdriver	(No.2)	
Stubbed screwdriver	(No.2)	
Flat-blade screwdriver		
Box driver	7mm / 0.27 inch 8mm / 0.31 inch 10mm / 0.39 inch	
Allen wrench	2mm / 0.07 inch 4mm / 0.15 inch 5mm / 0.19 inch 6mm / 0.23 inch	
Monkey spanner		
Nipper		

# 1. Moving and transportation

## About Chapter 1.

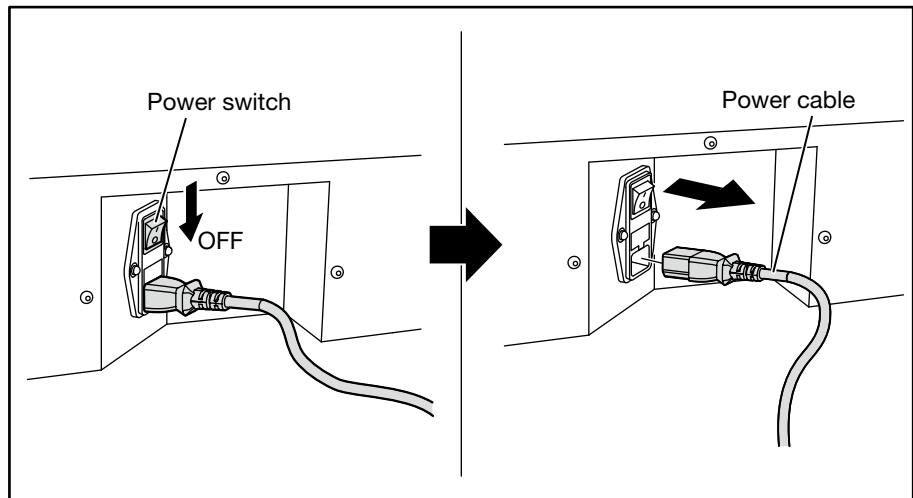
Safety cautions for moving .....	16
■ 1-1. Moving (On the floor) .....	17
■ 1-2. Manual transportation (Carrying on stairs, etc.) .....	18
■ 1-3. Trucking .....	19

## Safety cautions for moving

### ! WARNING

- When moving the machine, be sure to turn off the power switch and disconnect the power cable. If you move the machine while still connected, it cause the damage by caster, etc.
- When moving, be sure to separate the Title Box Assy.

- 1 Turn off the power switch at the bottom of the rear cabinet. Unplug the power cord from the cabinet.



- 2 Please check the **Safety bar installation manual** and remove it from reverse order.

- 3 See P.31 [Installing the shooting cabinet Assy].

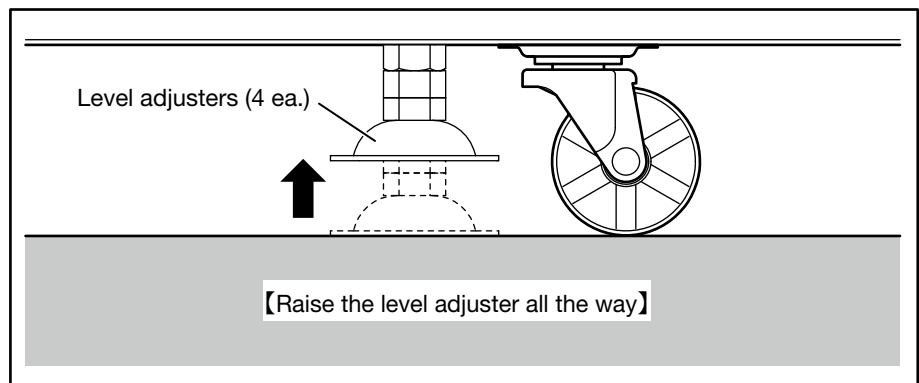
1-1. Moving (On the floor)

**! WARNING**

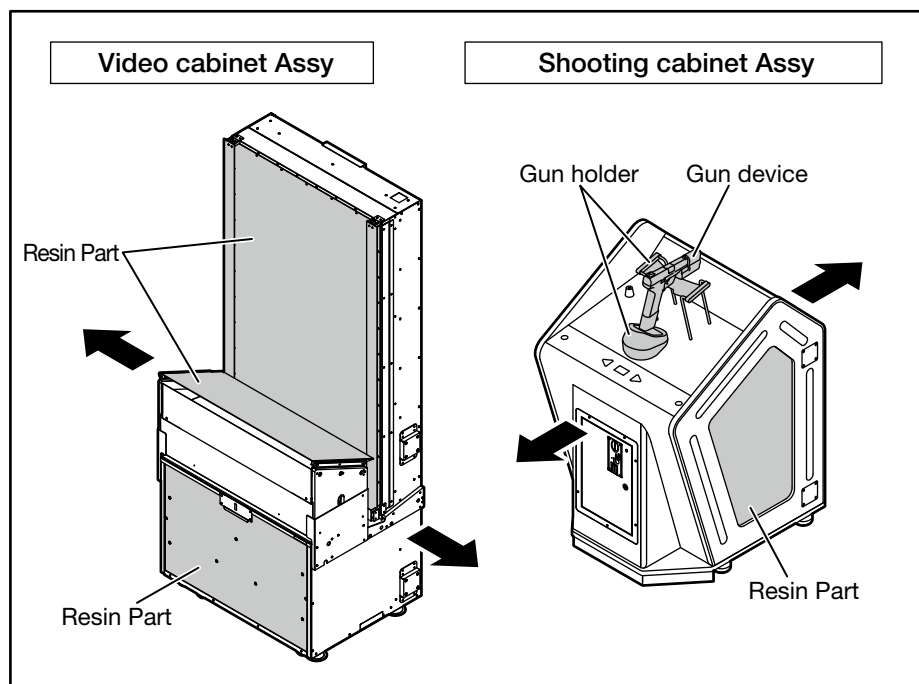
- When moving the machine, be sure to turn off the power switch and disconnect the power cable or LAN cable. If you move the machine while still connected, it cause the damage by caster, etc.
- Before moving, be sure to raise the level adjusters (4 levelers) all the way.
- While moving, do not touch the resin part.

- 1 Turn off the power switch at the bottom of the rear cabinet. Unplug the power cable from the wall outlet and remove the power cable from the cabinet.  
See P.16 [Safety cautions for moving.]
- 2 Raise the level adjusters (Levelers (4 ea.) of the video cabinet Assy and levelers (5 ea.) of the shooting cabinet Assy) all the way using a monkey wrench.  
See P.36 [Fix the level adjuster]

**Installation tool**  
• Monkey spanner



- 3 When moving the machine, slowly push the cabinet to move.



**IMPORTANT**  
Do not hold on Gun device, Gun holder, and the resin part when moving.

# 1. Moving and transportation

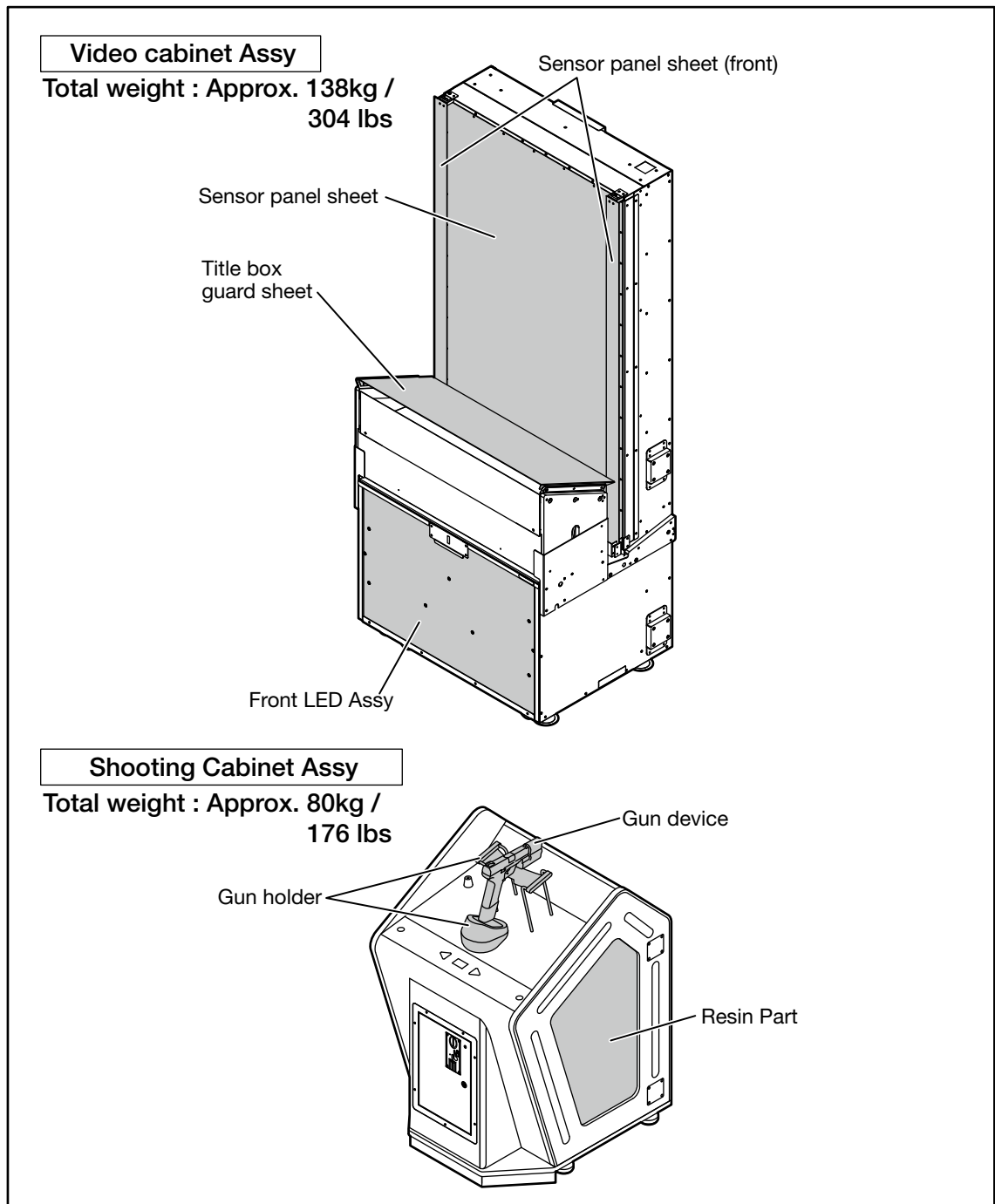
## 1-2. Manual transportation (Carrying on stairs, etc.)

### **WARNING**

- Do not hold on to the resin part when lifting the machine. Those parts can cause damage and result in an accident or injury.
- Be sure to separate the machine before you lift.

### **Do not hold following places.**

Do not hold on to the following sections of the machine.



## 1-3. Trucking

### CAUTION

- When transporting the machine, be sure to turn off the power switch and disconnect the power cable. If you move the machine while still connected, it cause the damage by caster, etc.
- Be sure to separate the machine before you transport the machine.
- When transporting the machine, be sure to include packed items and this instruction manual.
- Do not use roping for a transport vehicle. Failure to do this may result in damage to the machine.


Follow these steps to transport the machine after installation.  
Be sure to include packed items and this instruction manual.

- 1** Make sure to turn off the power switch and disconnect the power cable.  
See P.16 [Safety cautions for moving]
- 2** Remove the safety bar and separate the title box Assy and make it as transportable.  
※See P.36 [Installing the cabinet] and [Safety bar installation manual] and assemble in reverse order.
- 3** Use an original box for packing.
- 4** Make sure all keys are locked.
- 5** Put this instruction manual in a plastic bag, etc. and secure it in with tape in a visible location.
- 6** When transporting the machine, raise the level adjuster all the way.


# 2. Installation

## ■ 2-1. About installation

### • Installation requirements

 <b>CAUTION</b>
<ul style="list-style-type: none"><li>● <b>Install the machine according to the instructions.</b><ul style="list-style-type: none"><li>• Indoor use only.</li><li>• Temperature 10°C~35°C (Recommended temperature : 15~30°C)</li><li>• Humidity does not deviate from 10%~70%.</li></ul></li></ul>

### • Locations to avoid

 <b>CAUTION</b>
<ul style="list-style-type: none"><li>● <b>Never install the machine outdoors or at any of the following locations:</b><ul style="list-style-type: none"><li>• Place where the machine may become an obstruction in emergencies (such as near emergency exit) and place where fire extinguisher or similar equipment is installed.</li><li>• Place where moisture condensation may occur due to temperature differences.</li><li>• Place exposed to rain or water leakage (such as indoor swimming pool, shower booth, etc.).</li><li>• Place in direct sunlight</li><li>• Hot places.</li><li>• Caution of flammable, volatile drugs or hazardous substances in places with high flammable gas.</li><li>• A place with a slope on the floor (a place with a slope of more than 2 degrees).</li><li>• Unstable place or location where vibration are produced.</li><li>• Dusty places.</li><li>• Less than the installation space.</li><li>• Install the back of the product towards the wall.</li></ul></li></ul>

## About Chapter 2.

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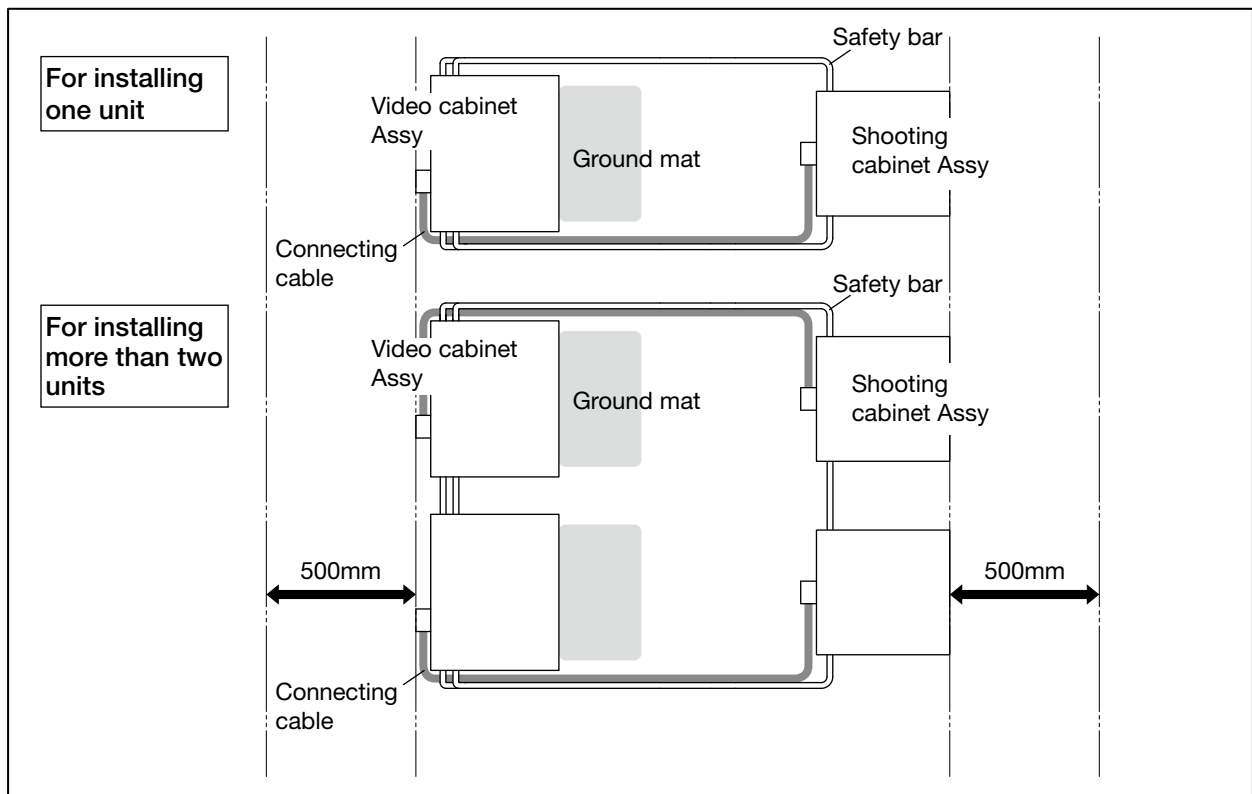
• About play zone

**! CAUTION**

• Be sure to provide a play zone shown below and do not block the ventilation which can causes heat and fire.

• Play zone for installed machine

- When installing this product, make sure that there is 500mm of free space before and after the machine. Open the door to proceed with maintenance. limited space can cause an accident during maintenance work.
- Route the connecting cable as shown below.
- Install the air compressor as location conditions.



## 2. Installation

### 2-2. Assembly

#### **! WARNING**

Be sure to handle by experienced staff or engineers. Also, do not proceed with any work that is not listed in this manual.

- Be sure to prepare a stable ladder, plate, etc. to install the title box Assy. Be careful since it is located in a high position.
- Make sure that the designated number of persons are available for assembly.
- Be sure to turn the power switch off.

#### 2-2-1 Remove the title shipping bracket

1

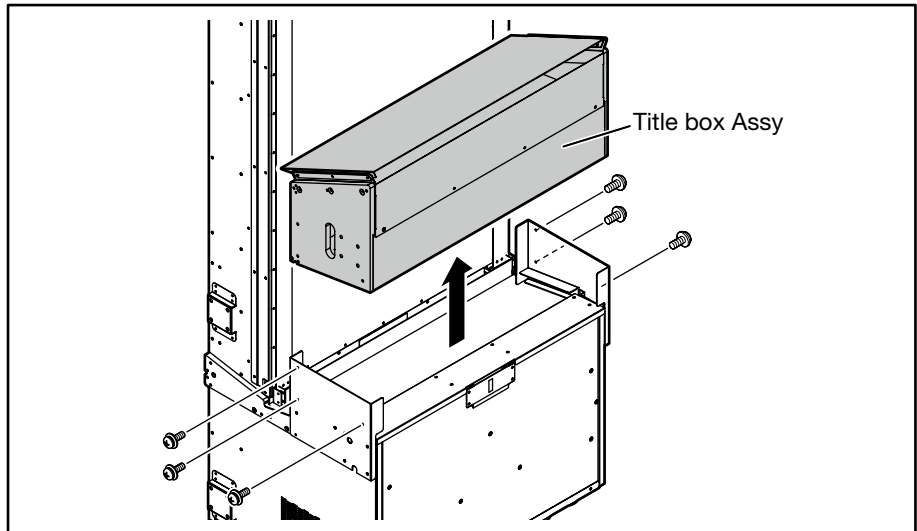
Remove the screws (6 ea.) and dismantle the title box Assy.  
[Sems screw (W) : M4×16] 6 ea.

##### Installation tool

- Phillips screwdriver (No.2)

#### **! WARNING**

Make sure to keep the removed screws.



2

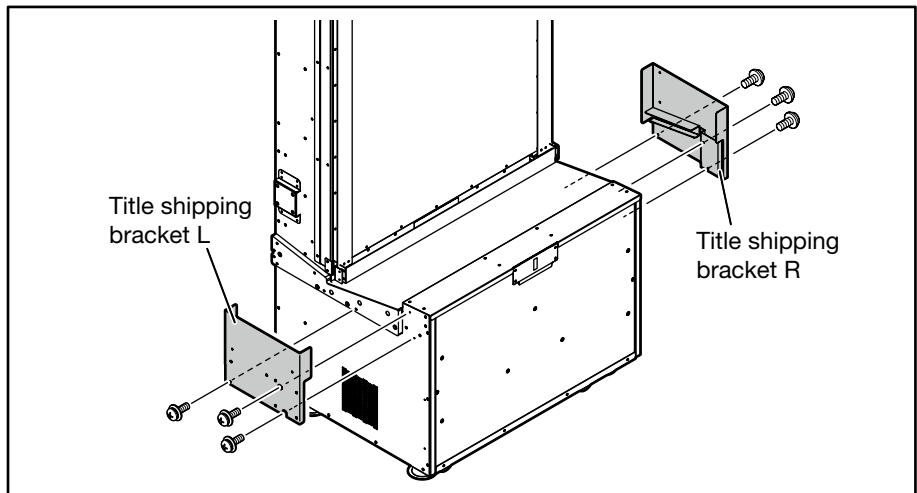
Remove the screws (6 ea.) and dismantle the title shipping bracket L/R.  
[Sems screw (W) : M4×16] 6 ea.

##### Installation tool

- Phillips screwdriver (No.2)

#### **! WARNING**

Make sure to keep the title shipping bracket L / R and screws.



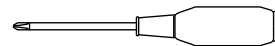
## 「OnPoint」 Disassembly of LCD buffer

### ⚠ WARNING

- Be sure to handle by experienced staff or engineers.

#### Installation tool

- Phillips screwdriver (No.2)



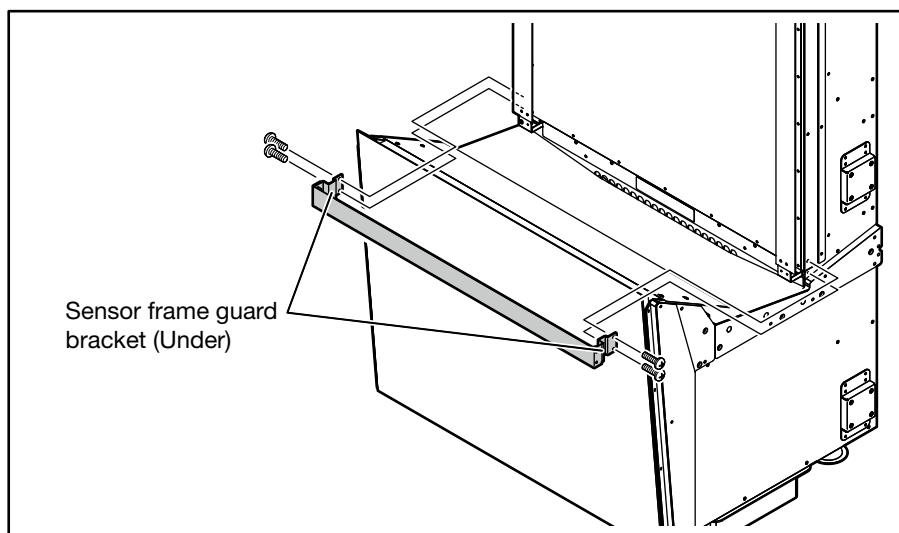
## Steps

1

Remove the screws (4 ea.) and dismount the sensor frame guard bracket (Under).  
[Sems screw (Black) : M4×8] 4 ea.

#### Installation tool

- Phillips screwdriver (No.2)

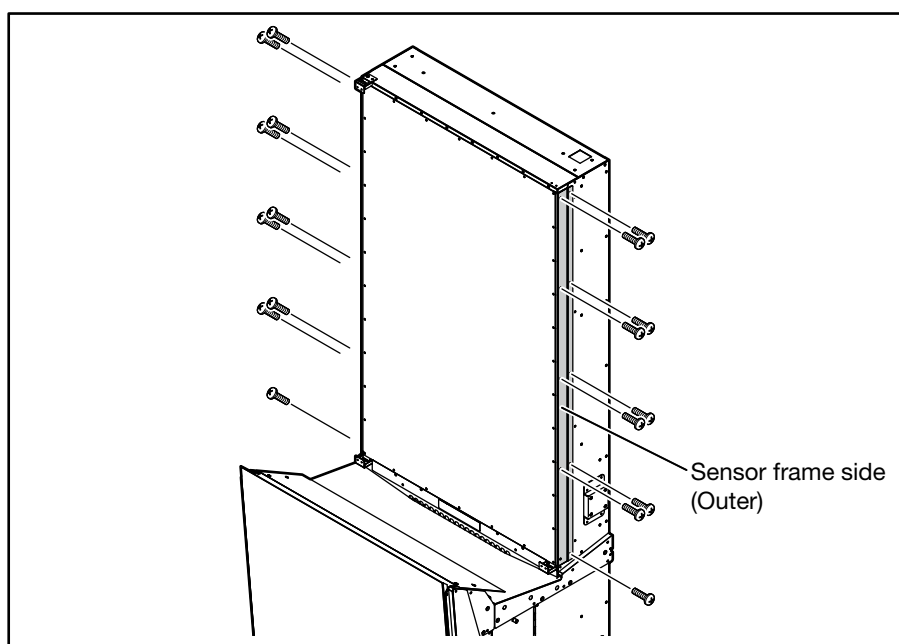


2

Remove the screws (18 ea.) and dismount the sensor frame side (Outer).  
[Sems screw (Black) : M4×8] 18 ea.

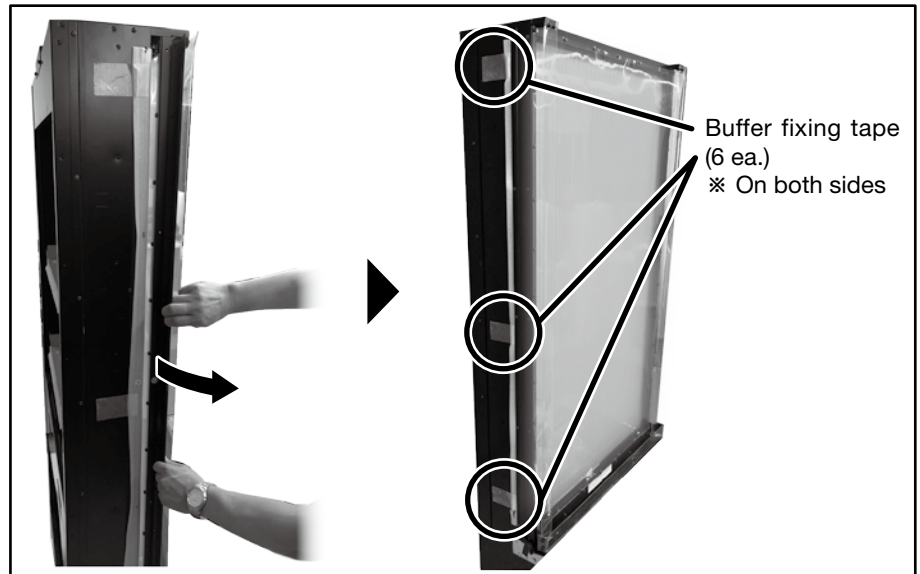
#### Installation tool

- Phillips screwdriver (No.2)

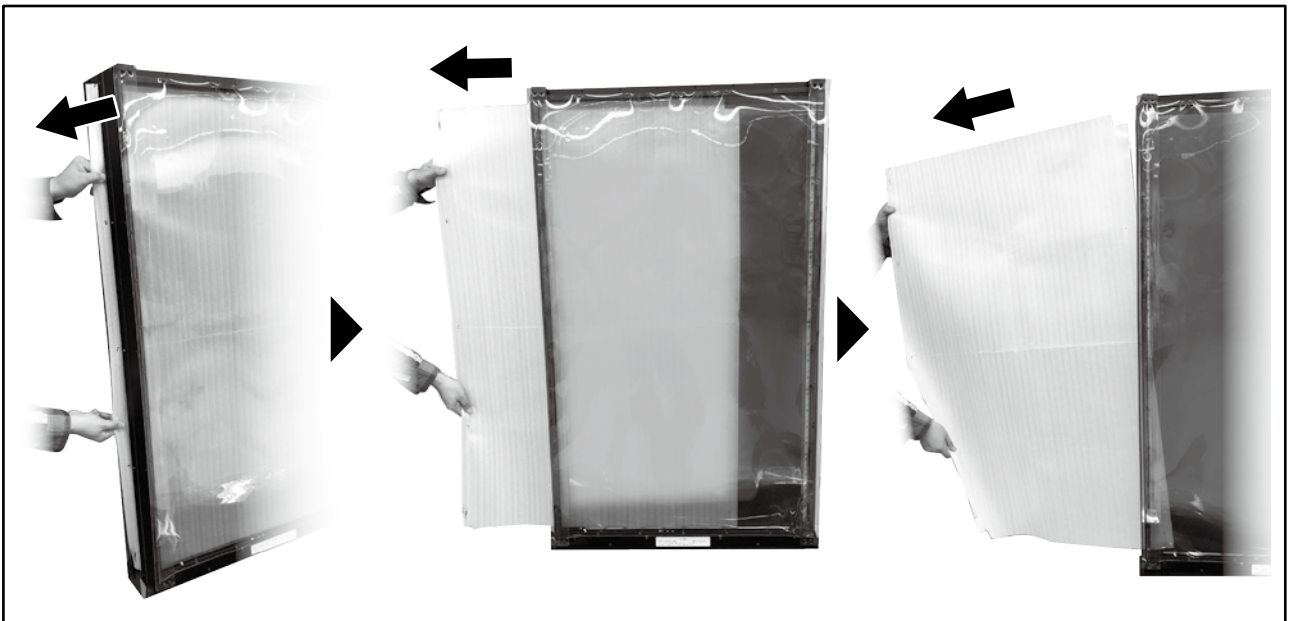


## 2. Installation

- 3** Open the sensor frame side (Outer) and remove tapes (6 ea.)



- 4** Remove the buffer slowly from one side.



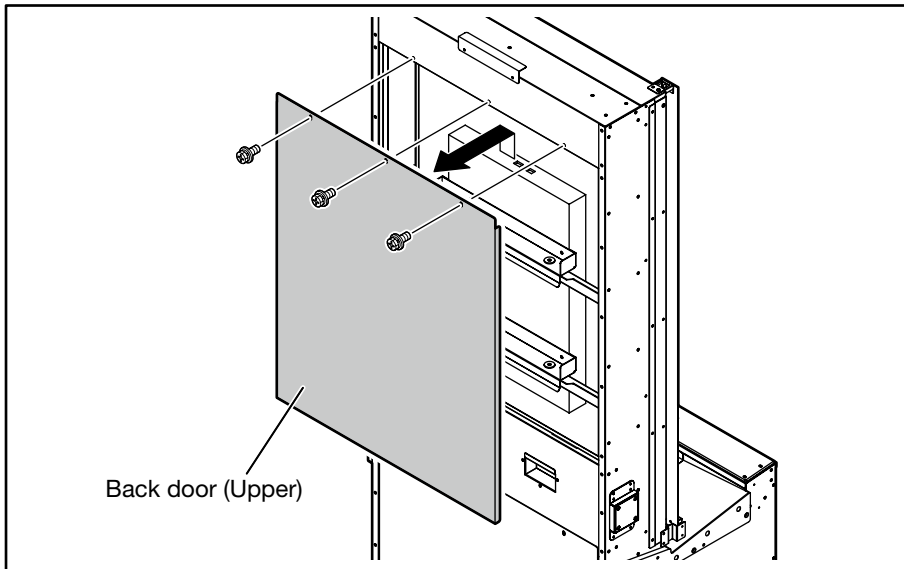
- 5** Install the sensor frame side (Outer) and sensor frame guard bracket(under) in reverse order from No.1 and 2.

### 2-2-2 Installing the title box Assy

1

Loosen the bolts (3 ea.) and lift the back door (Upper) slightly and dismount.  
 [Sems up set bolt (W) (Black) : M5×12] (3 ea.)

**Installation tool**  
 • Box driver  
 8mm / 0.31 inch

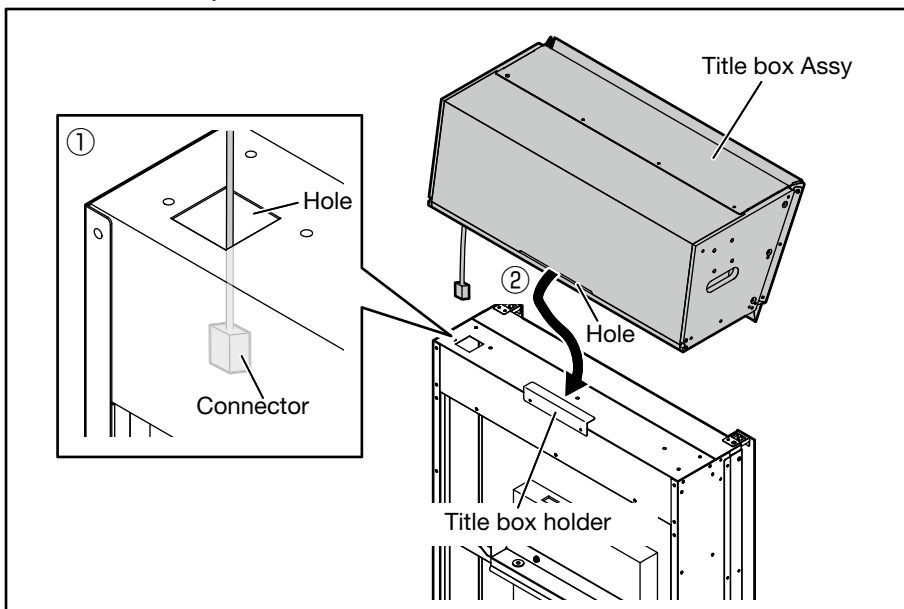


[Re-use : Sems up set bolt (W) (Black) : M5×12 (3 ea.)]

2

- ① Lift up the title box Assy, and connect the Connector with the connector at the hole.
- ② Place the title box Assy on the title box holder from the top side, making sure that the title box Assy enters the hole on the bottom of the title box holder.

**⚠ WARNING**  
 Be sure to lift the title box Assy at least 2 persons and be careful not to drop it.  
 Be careful not to jam the Connector and connector during the installation.



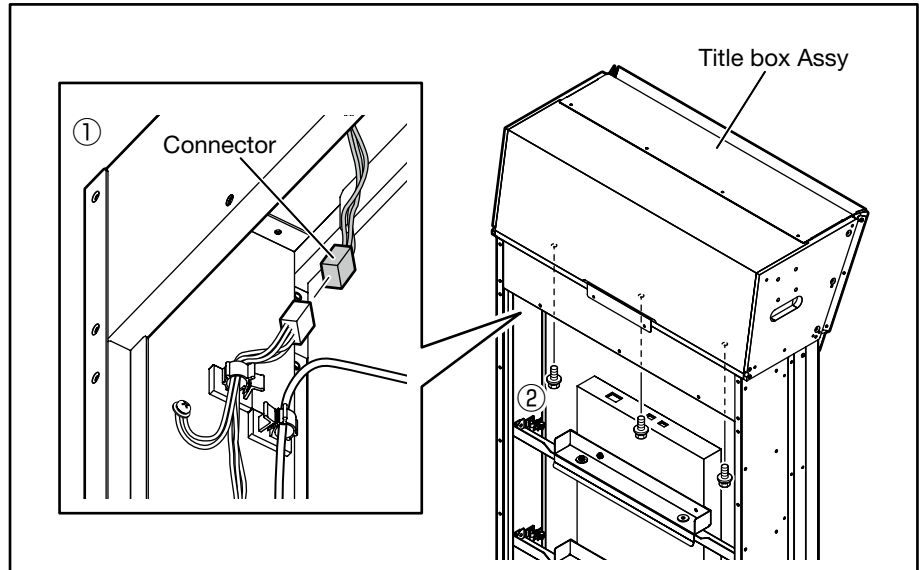
## 2. Installation

3

- ① Connect the connector (1 ea.).
  - ② Using the bolts (3 ea.), install the title box Assy.
- [Sems up set bolt (W) : M6×18] (3 ea.)

### Installation tool

- Box driver  
10mm / 0.39 inch

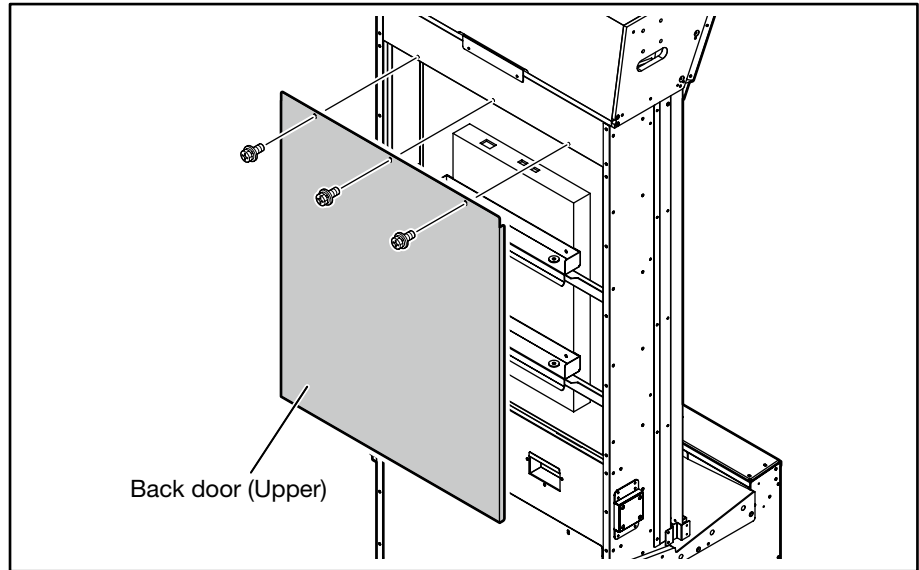


4

- Using the bolts (3 ea.), install the back door (upper).
- [Sems up set bolt (W) (Black) : M5×12 (Re-use)] (3 ea.)

### Installation tool

- Box driver  
8mm / 0.31 inch

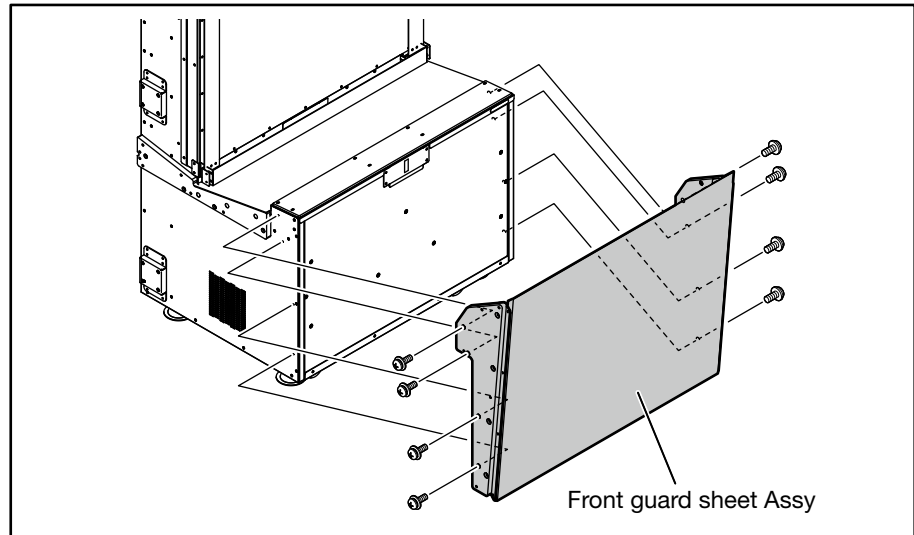


### 2-2-3 Installing the front guard sheet Assy

Using the screws (8 ea.), install the front guard sheet to the cabinet.  
 [Sems screw (W) : M4×16] (8 ea.)

#### Installation tool

- Phillips screwdriver (No.2)



### 2-2-4 Installing the side guard sheet (Middle)

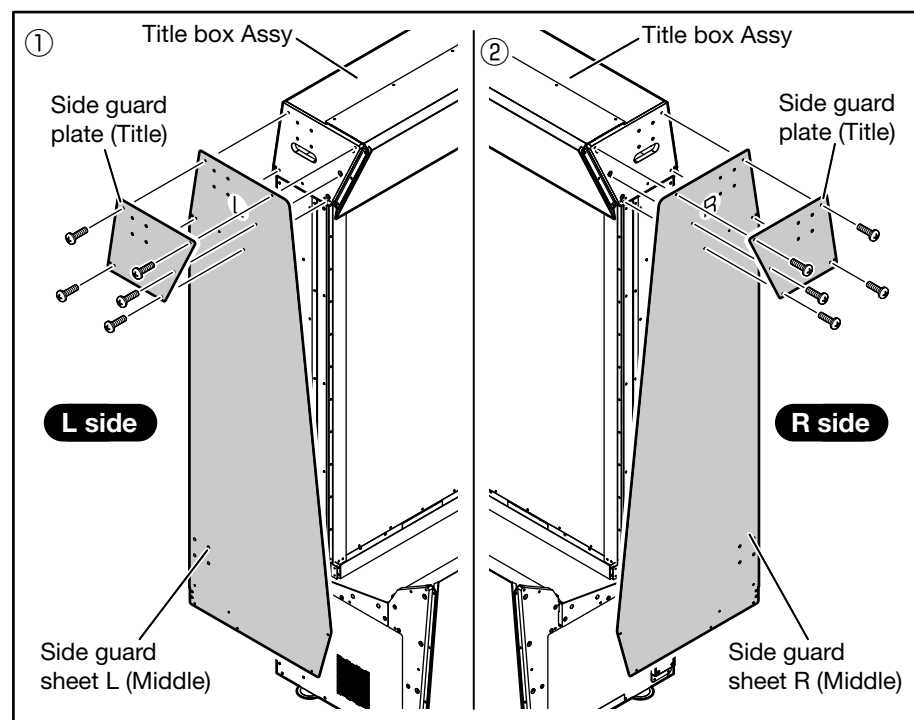
1

- ① Align the side guard sheet L (Middle) with the side guard plate (Title) and secure the title box Assy using the screws (5 ea.).
- ② Align the side guard sheet R (Middle) with the side guard plate (Title) and secure the title box Assy using the screws (5 ea.).

[Pan head screw (Black) : M4×16] (10 ea.)

#### Installation tool

- Phillips screwdriver (No.2)



## 2. Installation

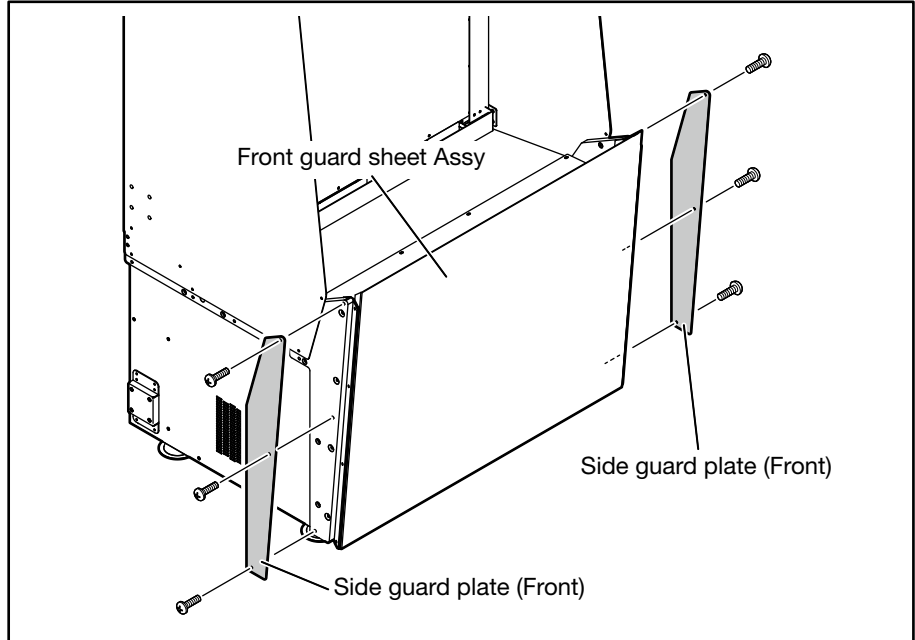
2

Using the screws (6 ea.), install the side guard plate (Front) to the front guard sheet Assy.

[Pan head screw (Black) : M4×16] (6 ea.)

### Installation tool

- Phillips screwdriver (No.2)



3

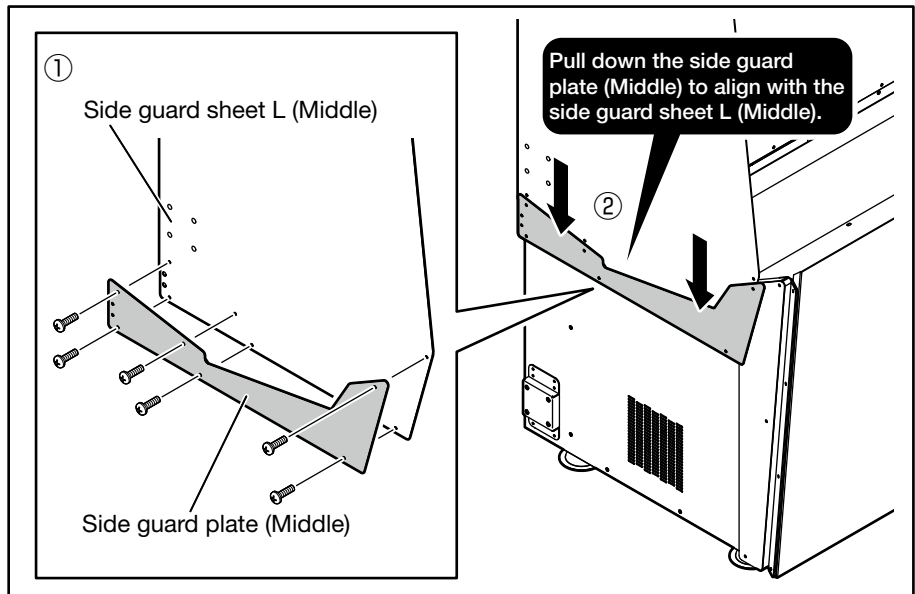
① Align the side guard plate (Middle) and the side guard sheet L (Middle) and secure to the cabinet using the screws (6 ea.).

② Pull down the side guard plate (Middle) to align with the side guard sheet L (Middle).

[Pan head screw (Black) : M4×16] (6 ea.)

### Installation tool

- Phillips screwdriver (No.2)



### ⚠ WARNING

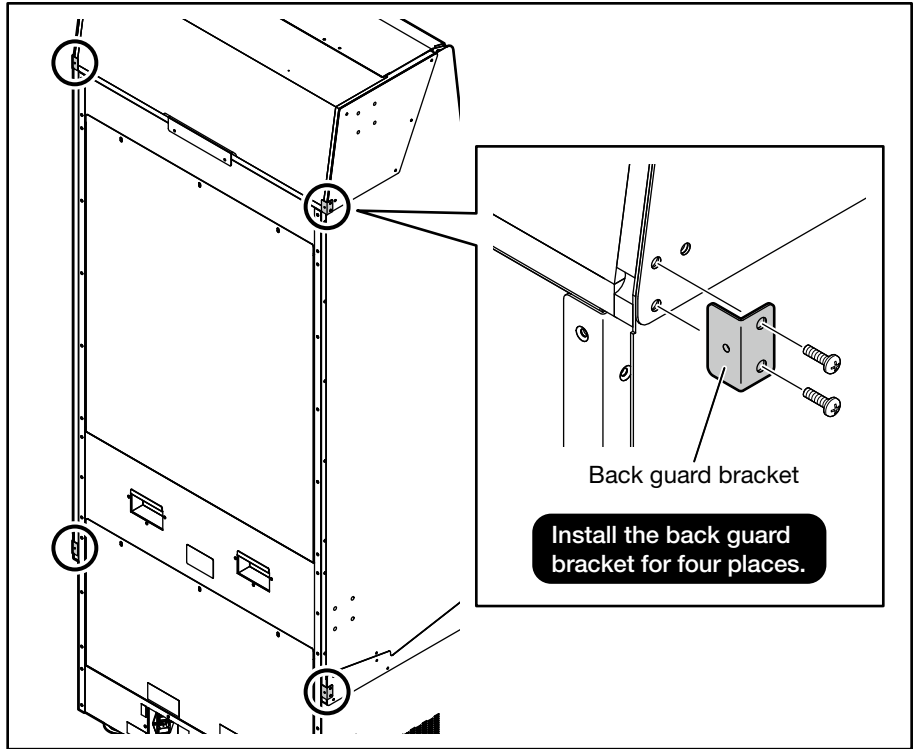
Be sure to install the side guard sheet and side guard plate at least 2 persons.

4

Install the side guard sheet R(Middle) in the same order.

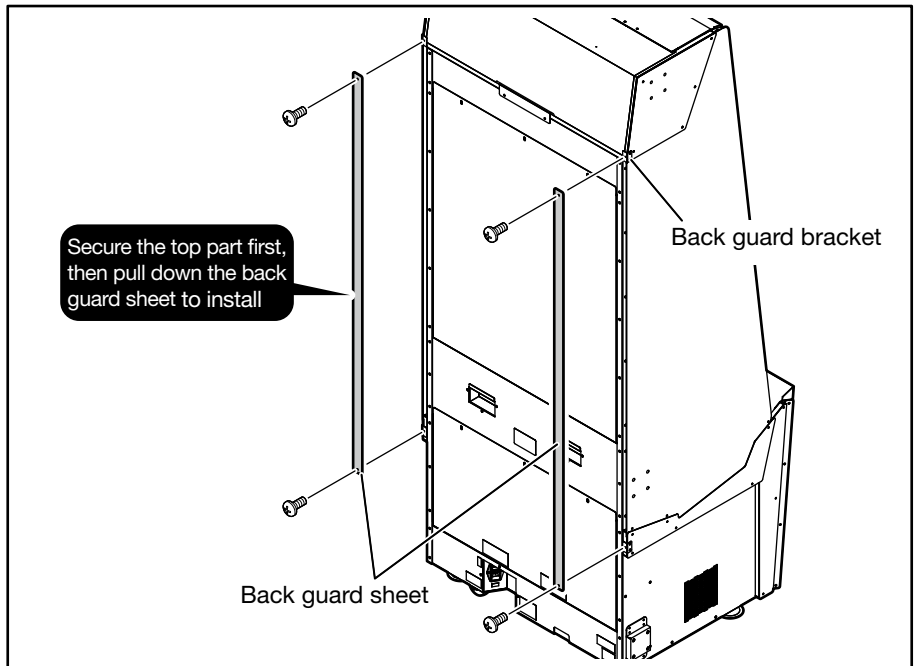
**5** Using the screws (8 ea.), install the back guard bracket.  
 [Pan head screw (Black) : M4×16] (8 ea.)

**Installation tool**  
 • Phillips screwdriver (No.2)



**6** Secure the back guard sheet to the back guard bracket using the screws (4 ea.).  
 [Pan head screw (Black) : M4×8] (4 ea.)

**Installation tool**  
 • Phillips screwdriver (No.2)



### 2-2-5 Installing the upper guard sheet

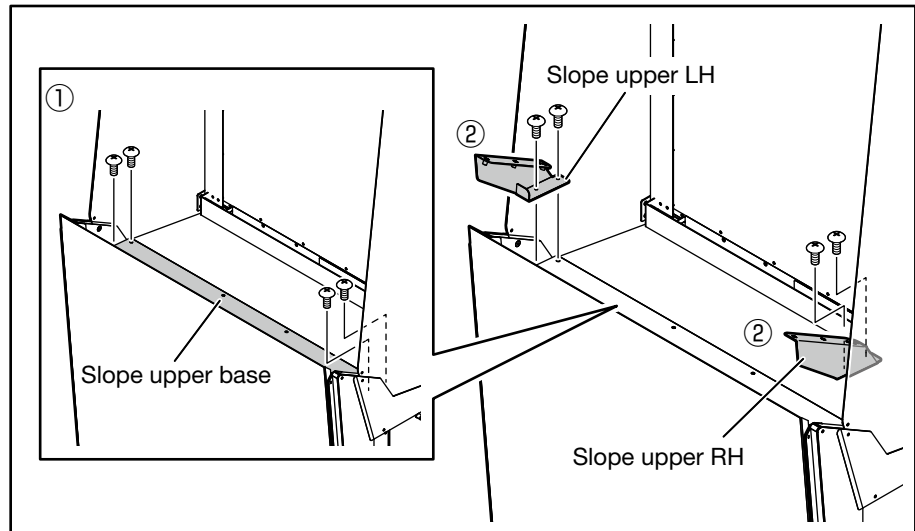
1

- ① Remove screws (4 ea.) from the slope upper base.
- ② Using the removed screws (4 ea.), install the slope upper LH/RH.

[Torx screw (Black) : M4x8] (4 ea.)

#### Installation tool

- Phillips screwdriver (No.2)



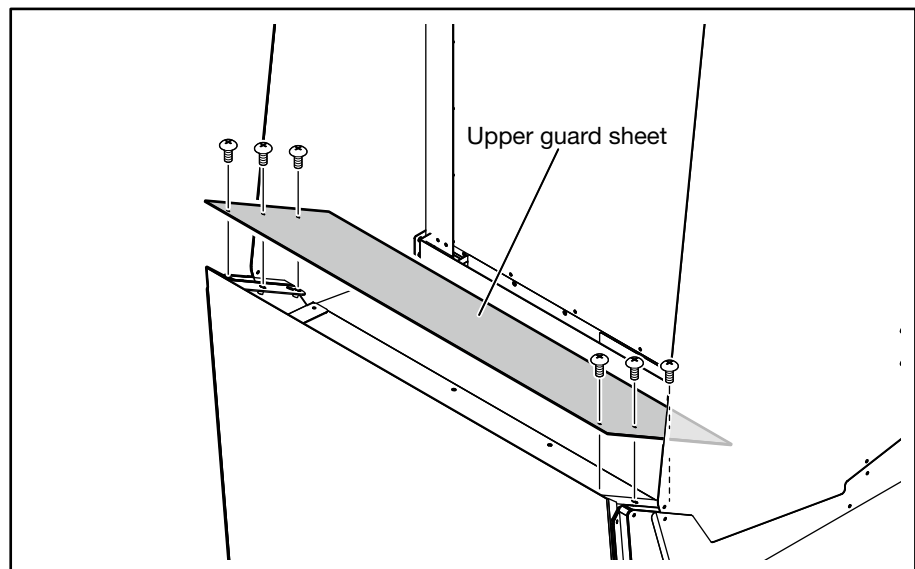
2

- Using the screws (6 ea.), install the upper guard sheet.

[Torx screw (Black) : M4x8] (6 ea.)

#### Installation tool

- Phillips screwdriver (No.2)



## 2-3. Installing the shooting cabinet Assy

### ! WARNING

- Connecting cables can be installed on either side. Also wiring can be different based on the number of installation units. Be sure to check the installation layout before installing. See P.21 [Play zone for installed machine.]

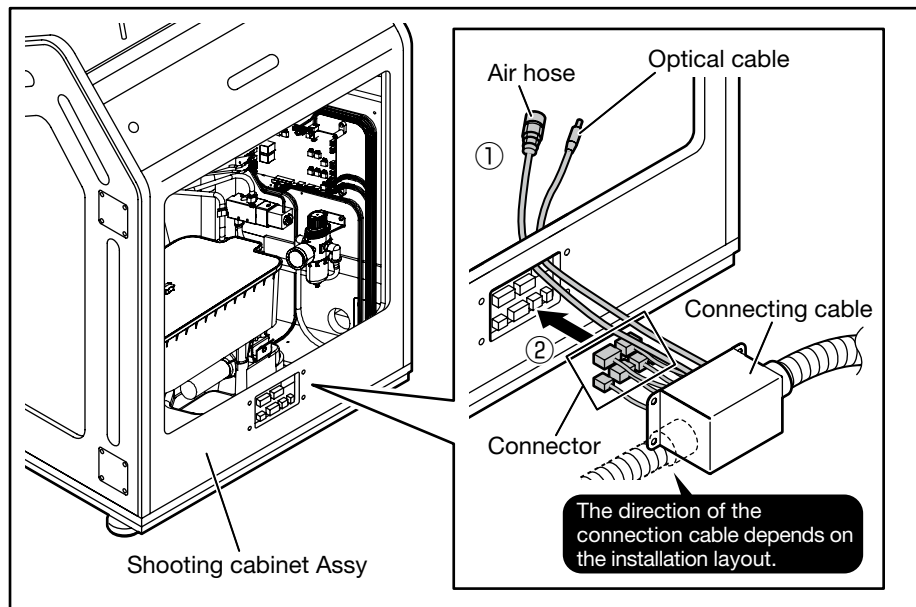
### 2-3-1 Connecting the shooting cabinet Assy

- 1 Dismount the shooting door of the shooting cabinet Assy.  
See P.75 [How to remove the shooting door.]
- 2 ① Insert the optical cable of the connection cable and the air hose (1 ea.) into the shooting cabinet Assy.  
② Connect the connectors (6 ea.).

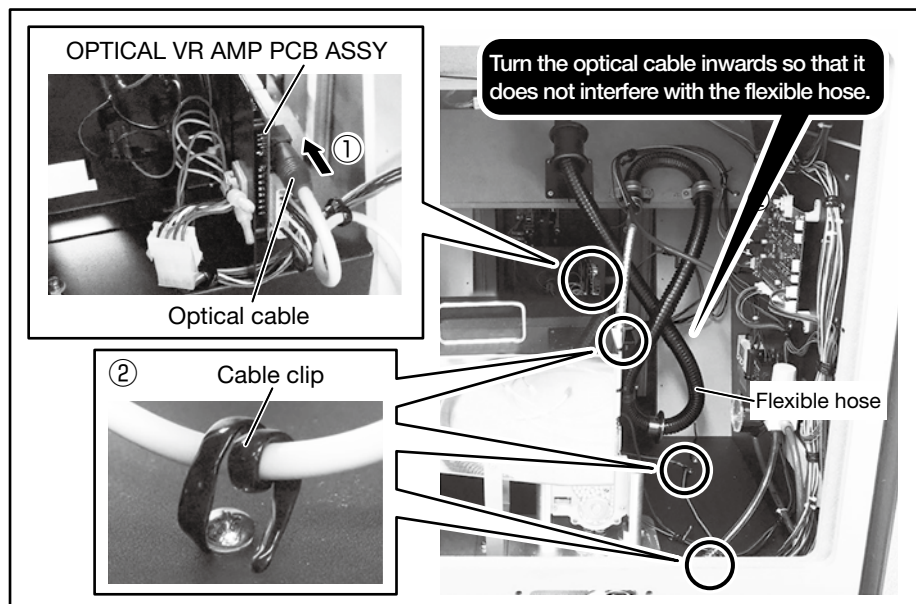
**! WARNING**

Connect carefully to the connector direction.

Connect the connector firmly to the inside.



- 3 ① Connect the optical cable to the OPTICAL VR AMP PCB Assy.  
② Secure with cable clips (3 ea.).



## 2. Installation

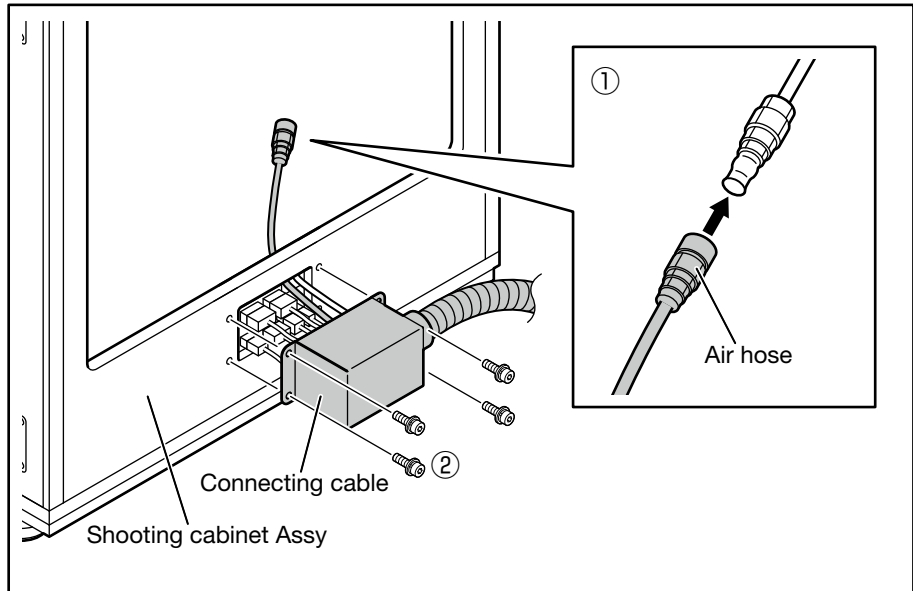
4

- ① Connect the air hose.
- ② Using the bolts (4 ea.), install the connecting cable to the shooting cabinet Assy.

[Sems allen bolt (W) (Black) : M6×30] (4 ea.)

### Installation tool

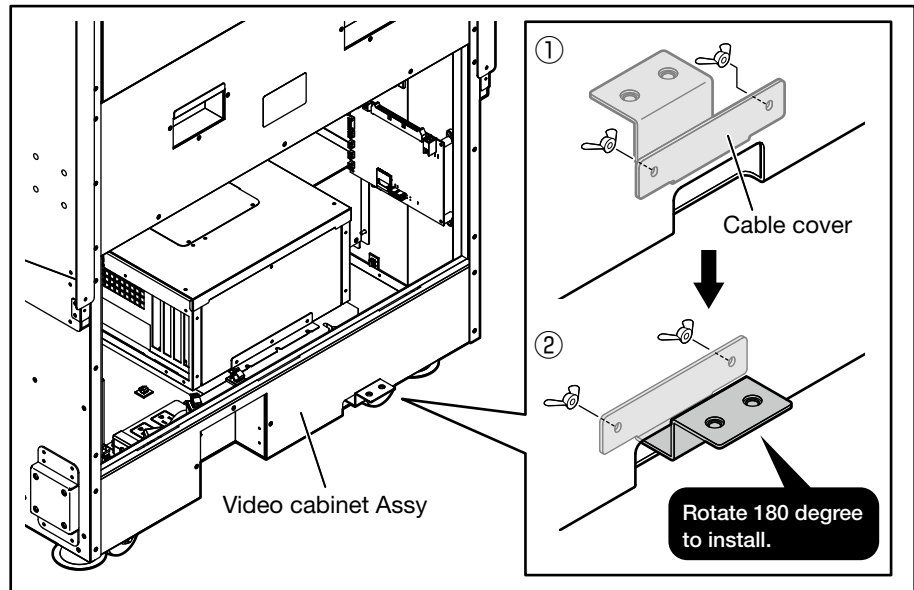
- Allen wrench  
5mm / 0.19 inch



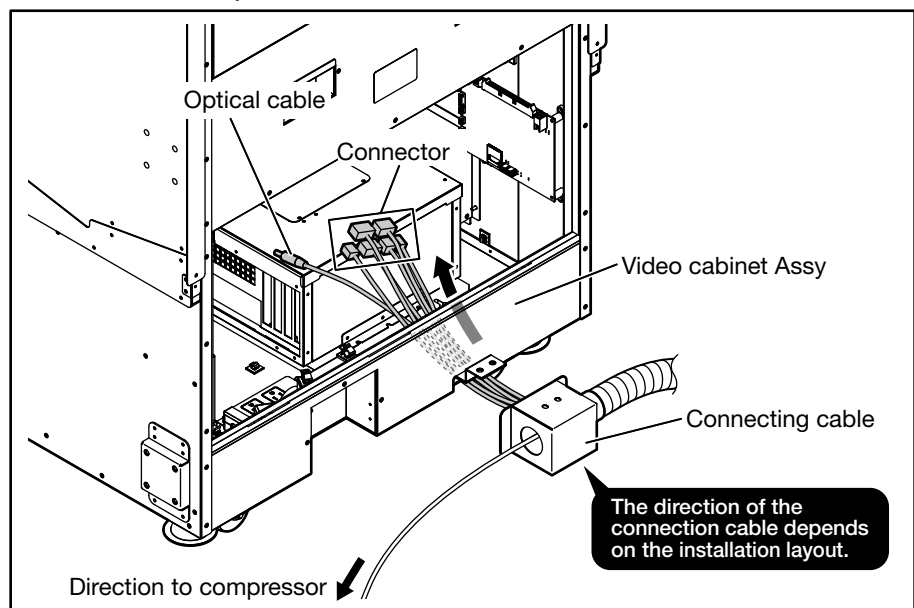
### 2-3-2 Connecting the video cabinet Assy

- 1** Remove the back door (Lower) of the video cabinet Assy.  
See P.74 [How to remove the back door (Lower).]
- 2**
  - ① Remove the nuts (2 ea.) from the video cabinet Assy and dismount the cable cover.
  - ② Rotate the cable cover 180 degree to install the nuts (2 ea.)

[Fly nut : M3](2 ea.)



- 3** Insert the connectors (6 ea.) of the connection cable and the optical cable (1 ea.) into the video cabinet Assy.

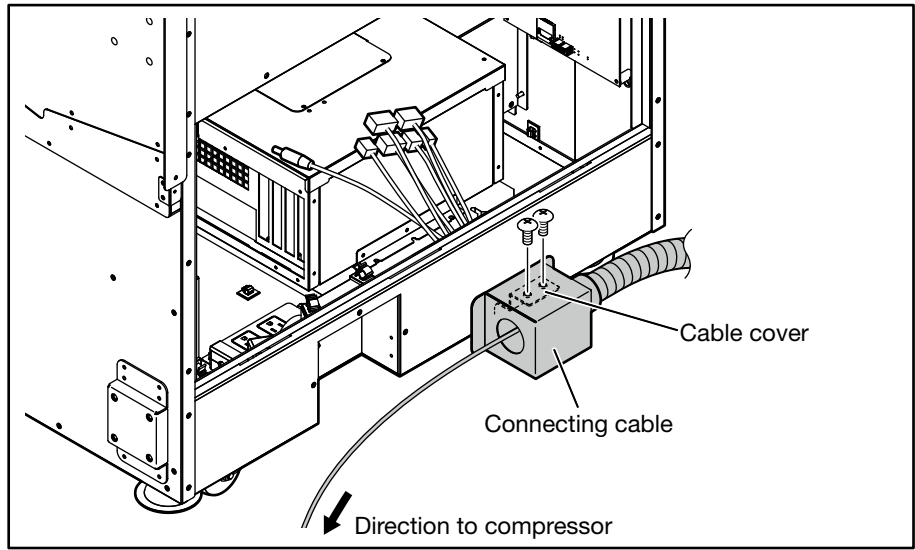


## 2. Installation

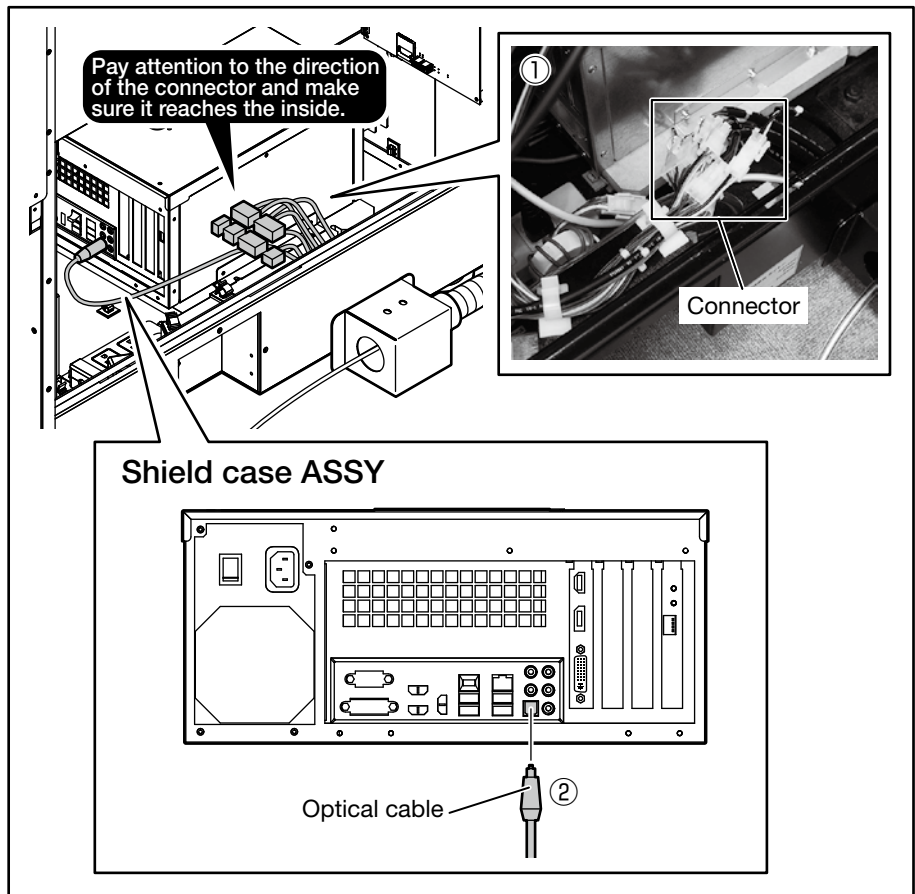
- 4** Using the screw (2 ea.), install the connecting cable to the cable cover.  
[Torx screw (Black) : M6x10] (2 ea.)

### Installation tool

- Phillips screwdriver (No.2)



- 5** ① Connect the connector (6 ea.)  
② Connect the optical cable (1 ea.) to the shield case Assy.



### WARNING

Connect carefully to the connector direction.

Connect the connector firmly to the inside.

- 6** See P.74 [How to remove the back door (Lower).] to install in reverse order.

- 7** If you install more than two machines, install in the same order.

## ■ 2-4. Installing the safety bar

### **WARNING**

- For installing the safety bar, please refer to the Safety bar installation manual.
- Be sure to check the installation layout before installing the safety bar. Also, install the connection cable on the cabinet first. See P.21 [Play zone for installed machine.]
- Please check the installation location of the compressor before installing the safety bar. Move the compressor for installation inside the safety bar.
- Be sure to install the safety bar at least 2 persons.

## 2. Installation

### 2-5. Installing the cabinet

#### 2-5-1 Fix the level adjuster

## ! WARNING

- Be sure to fix all level adjusters to the cabinet.
- Make sure that all level adjusters are touching the floor.

1

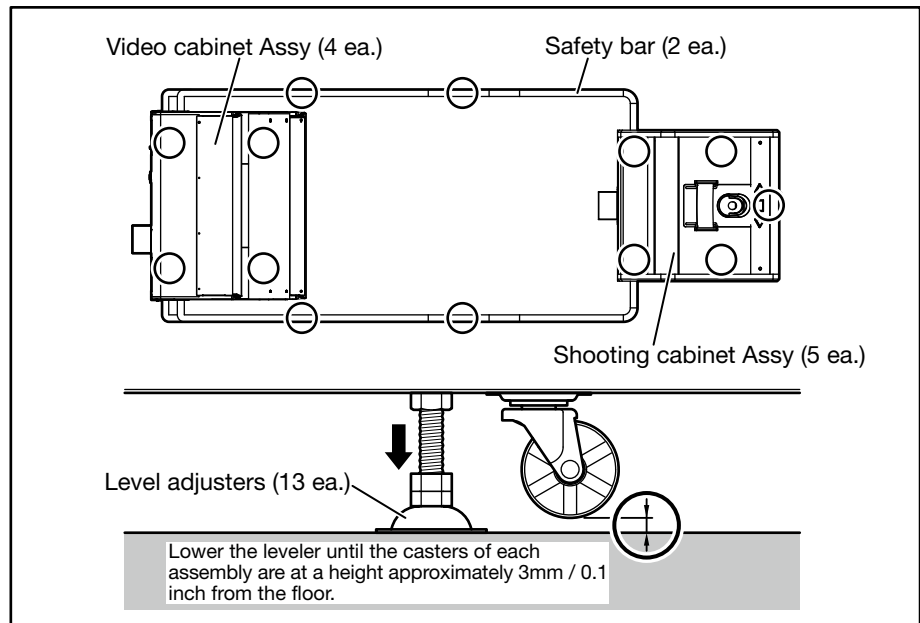
Move the cabinet to the installation site.

2

Using the monkey wrench to lower the level adjusters at a height approximately 3mm / 0.1 inch from the floor.

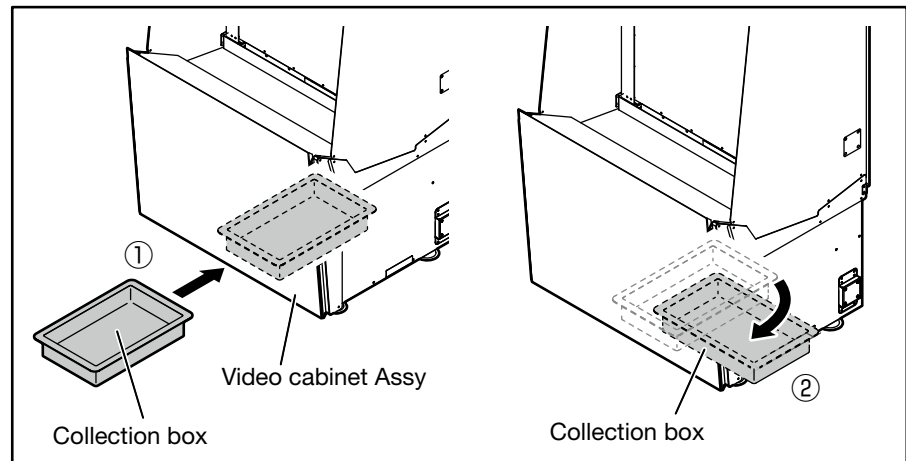
#### Installation tool

- Monkey spanner



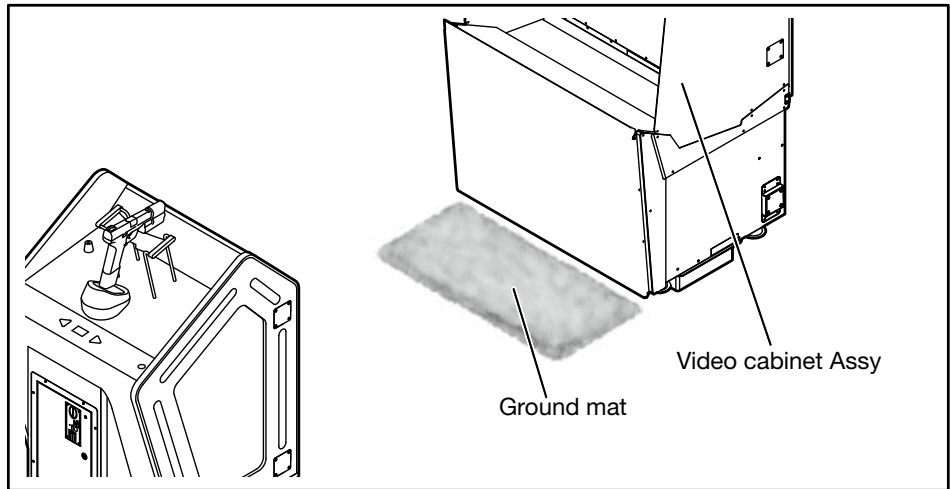
#### 2-5-2 Installing the collection box

- ① Place collection box under video cabinet Assy.
- ② Rotate it 90 degrees and install the collection box.



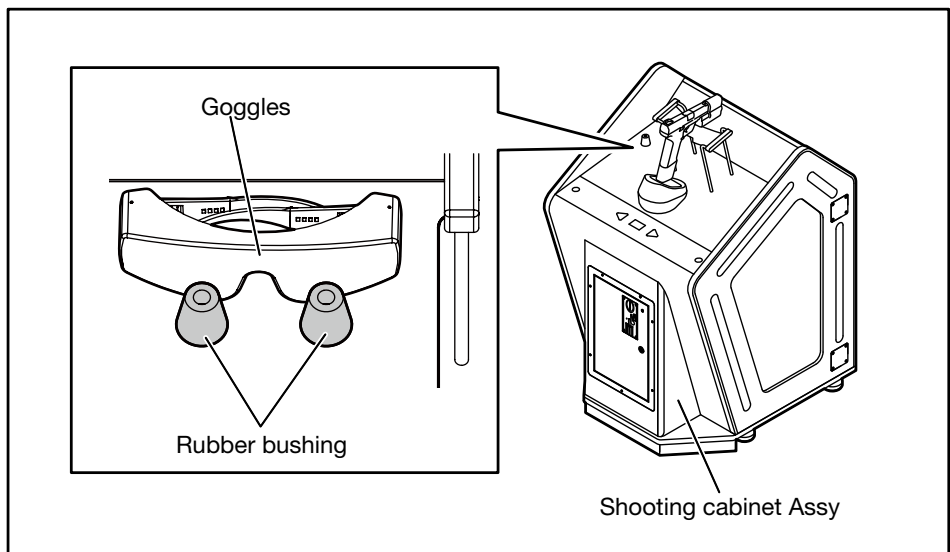
### 2-5-3 Installing the ground mat

Place the ground mat in front of the video cabinet Assy.



### 2-5-4 Installing the goggles

Install goggles on the rubber bushing of the shooting cabinet Assy.



## 2. Installation

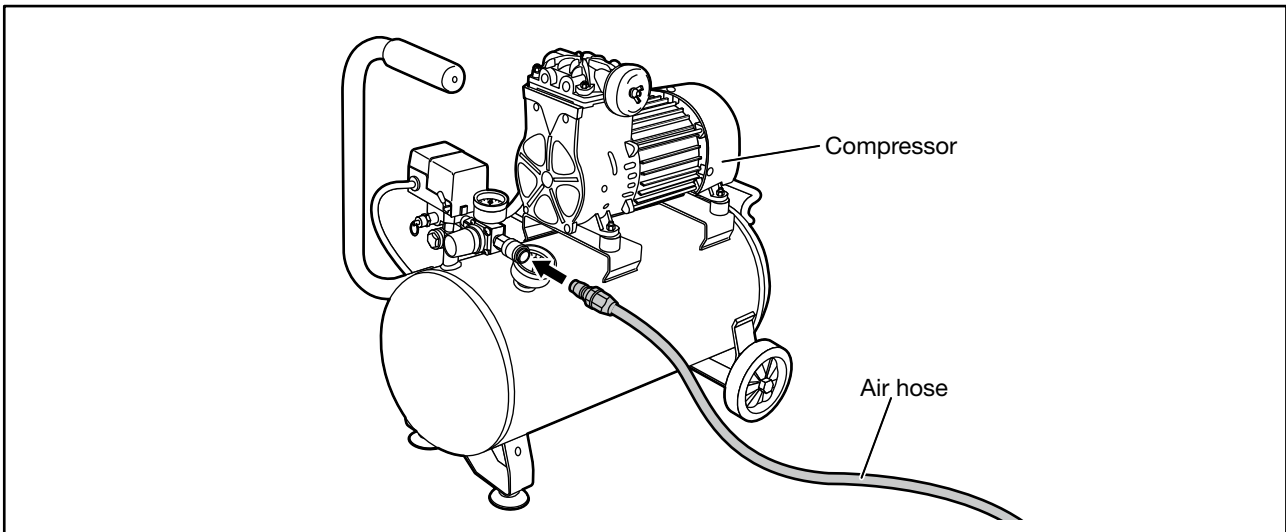
### 2-6. Compressor connection

#### ⚠ WARNING

- See air compressor handling manual for instructions on how to assemble and use a compressor.
- The connection method of the compressor varies by number. Please check the number of installations.
- Depending on the number of installations, use the compressor gauge appropriately. (For installing one to two units : 850W/ For installing three to four units : 1100W) as a rough guide

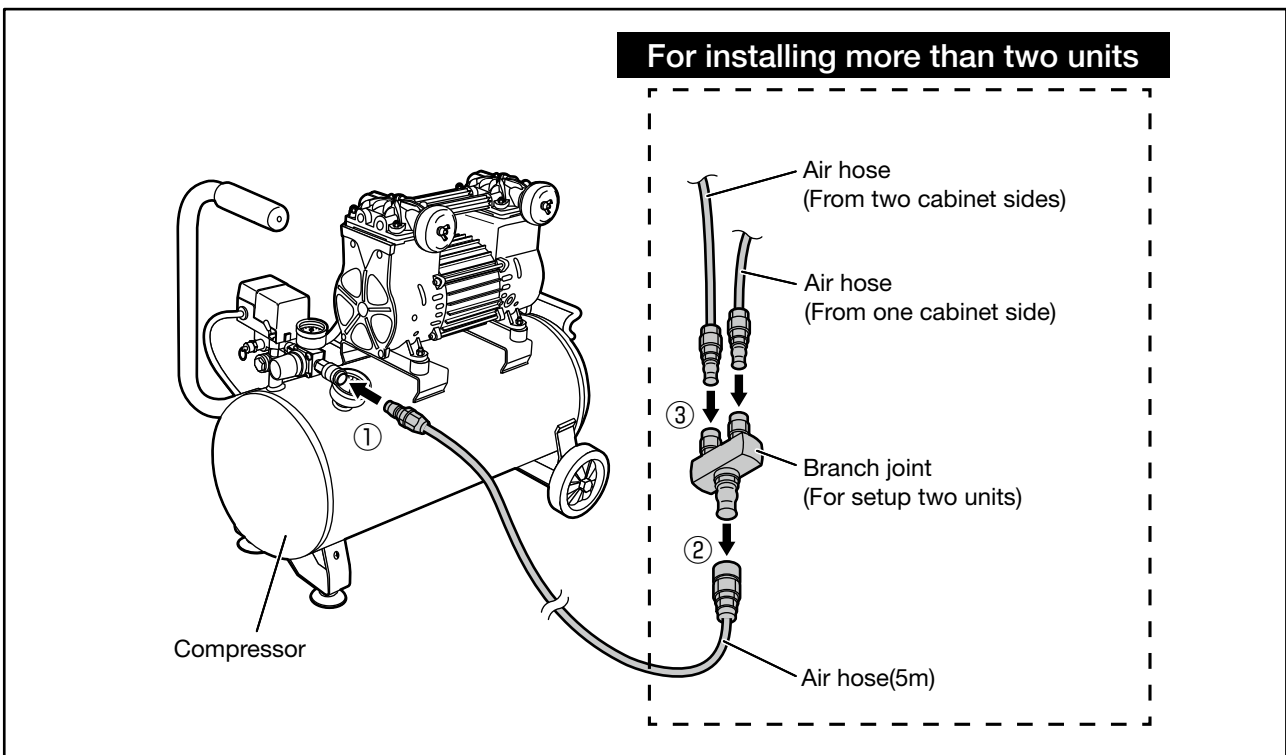
#### For installing one unit

Connect the air hose (1 ea.) of the connecting cable to the compressor.



#### For installing more than two units

- ① Connect the air hose (5m) which is an accessory to the compressor.
- ② Install the branch joint to the air hose (5m).
- ③ Connect the air hose from the cabinet to the branch joint.



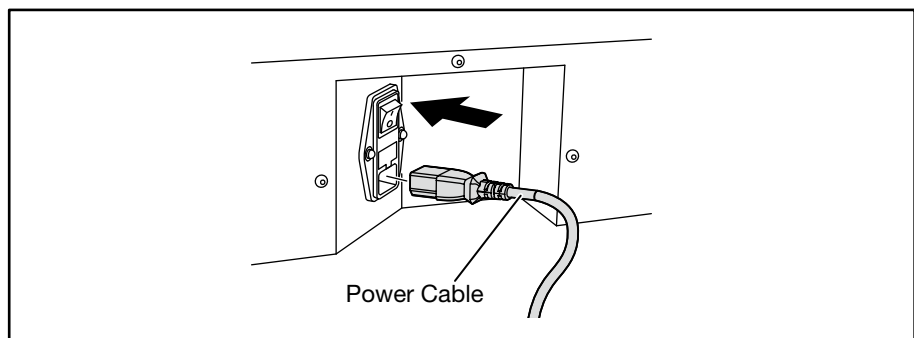
## 2-7. Connecting the power cable

### **! WARNING**

- Be sure to install by experienced staff or engineers.
- Make sure to turn off the power switch before the installation.
- Make sure the cabinet and compressor use the separate power supply.

#### Cabinet

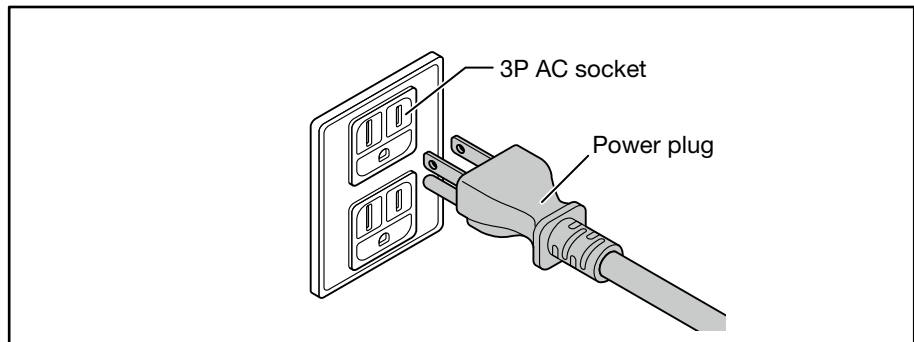
- 1** Insert the power cable to the back of the power unit.



- 2** Insert the power cable plug into the outlet.

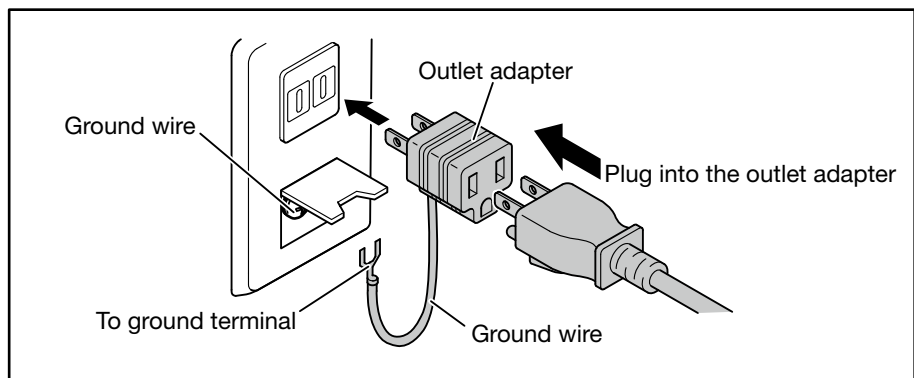
**[In case of 3P AC socket]**

Plug the power plug into the outlet.



**[Not a 3P AC socket]**

Install the outlet adapter into the power plug and plug it into the power outlet. Connect the ground wire from the outlet adapter to the ground terminal.



### **! WARNING**

To avoid the electric shock or failure, install the ground lead.

### Compressor

- 1 Plug the power plug of the compressor to the outlet.  
Turn on the power switch referring to the operating instructions.

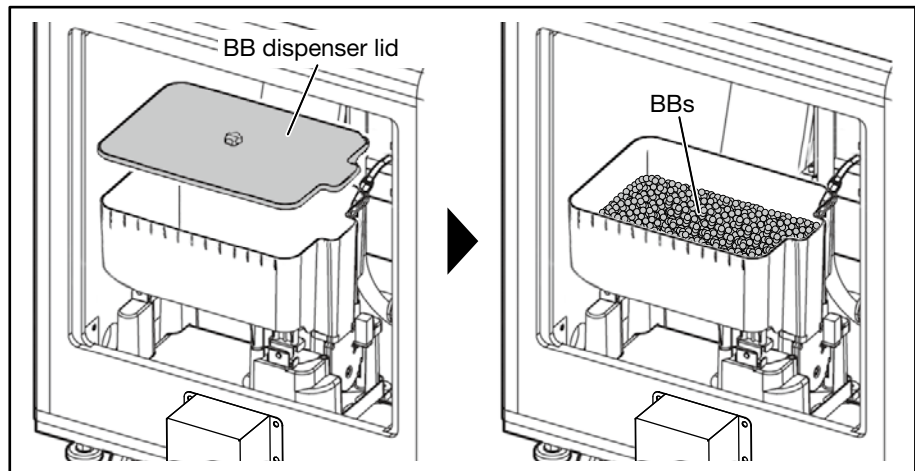
### **! WARNING**

Make sure the cabinet and the compressor use the separate power supply.

- 2 Adjust the air output pressure to 「0.8MPa」 referring to the operating instructions.
- 3 Move the air compressor to the desired position.

### ■ 2-8. Supplying the BBs

- 1 Remove the shooting door of the shooting cabinet Assy.  
See P.75 [How to remove the shooting door.]
- 2 Remove the lid of the bb dispenser and supply the BBs.



## 2-9. Setup the Gun device

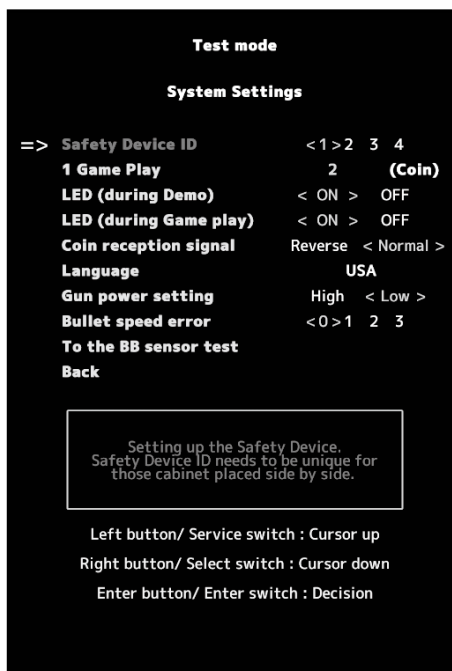
### ! WARNING

- Please be sure to set the ID before operating.
- If two units are installed, be sure to use a different ID from your near cabinets.

### 2-9-1 Setup the ID

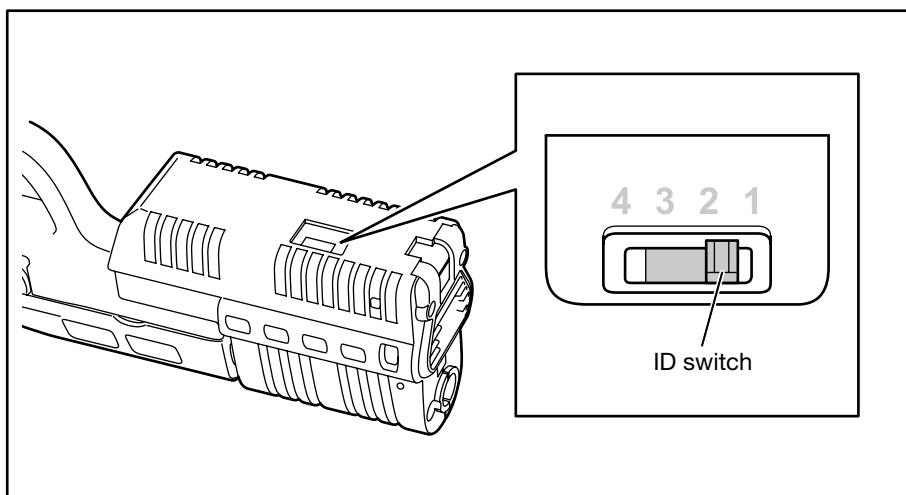
1

- ① Select [System settings] from the main menu in test mode.  
See P.62 [System settings]
- ② Set the safety device ID.  
※ If multiple units are installed, please set the non-duplicate safety device ID (No. 1-4)



2

- ② Set the safety device ID and ID switch to the same number from No.1.  
※ Numbers are in order (1·2·3·4) from the muzzle.



3

① Select [BB Sensor test] in test mode and check if BBs can be fire. See P.59 [BB Sensor test].

**WARNING**

The safety device ID and the gun device ID switch in the BB sensor test must be set to the same number to fire BBs.

BB sensor test

=> Delete hit mark

All correction (TO)	1.000
All correction (TR)	1.000
Single correction (S1-V0)	0.00
Single correction (S2-V0)	0.00
Single correction (S3-V0)	0.00
Single correction (S4-V0)	0.00
Single correction (S1-VR)	0.00
Single correction (S2-VR)	0.00
Single correction (S3-VR)	0.00
Single correction (S4-VR)	0.00

Undo change

Reset

Go to system settings

Back

Left button/ Service switch : Cursor up

Right button/ Select switch : Cursor down

Enter button/ Enter switch : Decision

Safety device ID:1

S1:0020 S2:0022 S3:0021 S4:0024

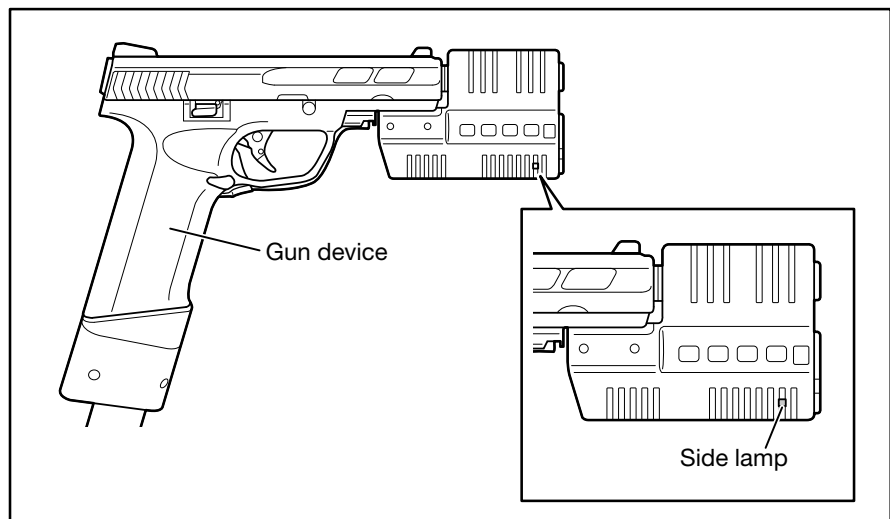
T:22.53

E:0.000 S:0.000

Make sure that the Gun device ID is the same as the ID switch on the gun device.

② When you turn the gun to the screen, check that the color of the side lamp on the gun device changes. To the screen, please check if you can fire BB bullets.

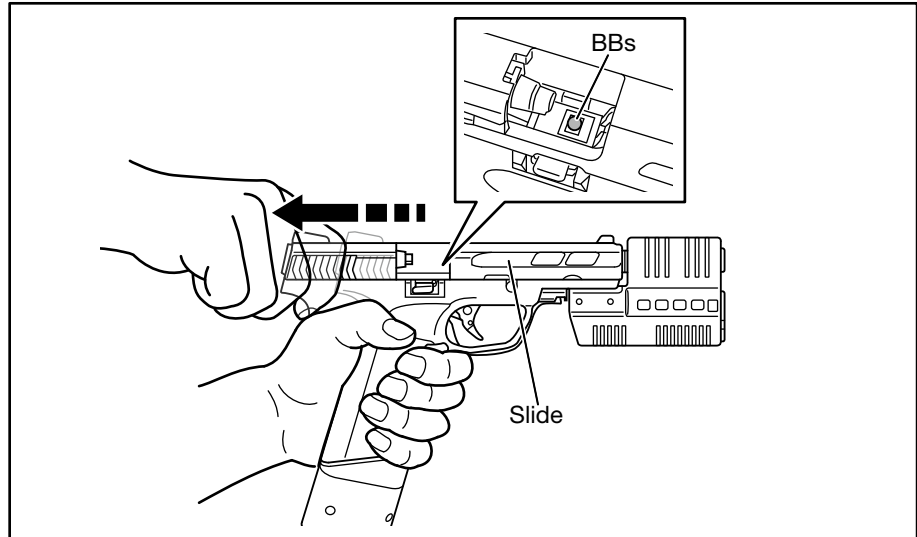
Green light	BBs cannot be fire.
Red light	BBs can be fire.



※ If the BB bullet is not fired, please check the BB bullet in the slide.

1

Pull the slider on the Airsoft gun to make sure that BBs are being supplied to magazine. Also, if the BBs is blocked, remove the blocked BBs.



2

Rotate the slider on the Gun device and pull out one BBs by facing down the muzzle. Please check if BBs are fired.

- ※ If there is no BBs in the dispenser, replenish the BB dispenser and turn on the power switch of the machine and the compressor.
- ※ If you don't take one BBs out of the muzzle when you turn the slide back to its original position, the correct automatic loading will not proceed.

## 2. Installation

### 2-10. Safety check

#### **! CAUTION**

- Do not use it in an abnormal condition, such as smoke, strange smells or sounds. It can cause electric shock and fire. Immediately turn off the power switch, remove the power plug from the outlet, and contact your local distributor.
- Pay attention to the handling of the power plug. Incorrect handling can cause fire. When handling power plugs, observe the following:
  - Do not plug in the power plug with dirt and other foreign substances on it.
  - Put the power plug firmly to the end.
- If liquids such as foreign substances and water are inside, do not use them as they cause electric shock and fire. Immediately turn off the power switch, remove the power plug from the outlet, and contact your local distributor.
- The warning label attached to the cabinet contains important safety information. Please note the following points.
  - Be careful of lighting, pollution, etc. and be sure to labels are easily legible.
  - Make sure that the labels are not hidden by other machines or objects.

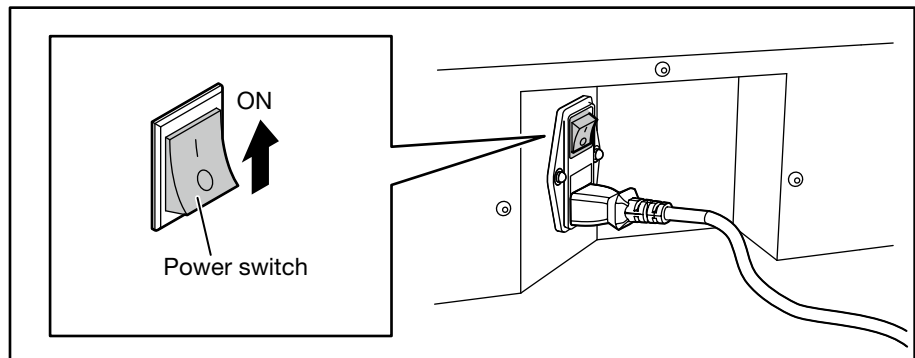
#### Operation check

Please follow below steps for operation check.

### 2-11. Supplying the power

1

Turn the power switch on.  
Refer to the instructions for the compressor and turn the power switch on.



2

If an error is displayed on the screen, see P.104 [Error message] to remove the error.

# 3. Operation

## About operation

### CAUTION

- Be sure to complete the installation of「Chapter 2.」 before carrying out the 「Chapter 3.」

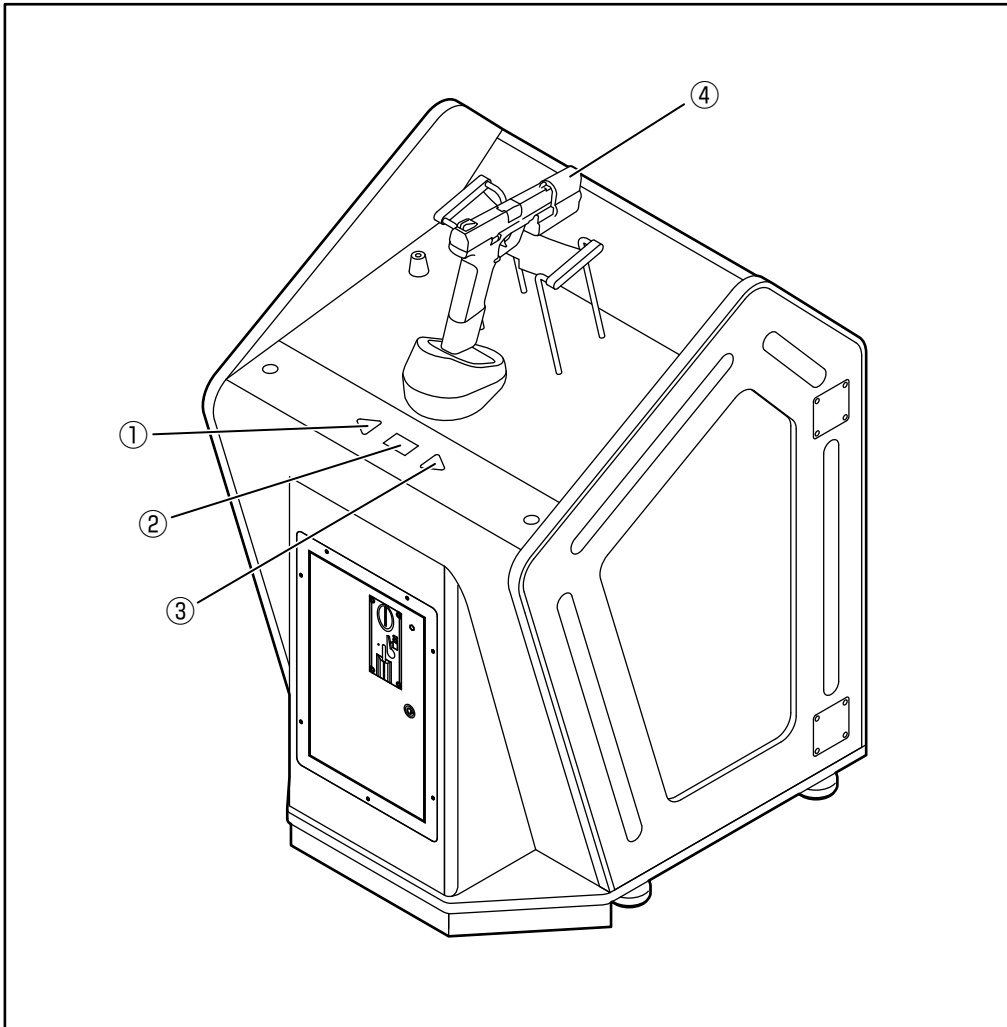
## About Chapter 3.

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## 3. Operation

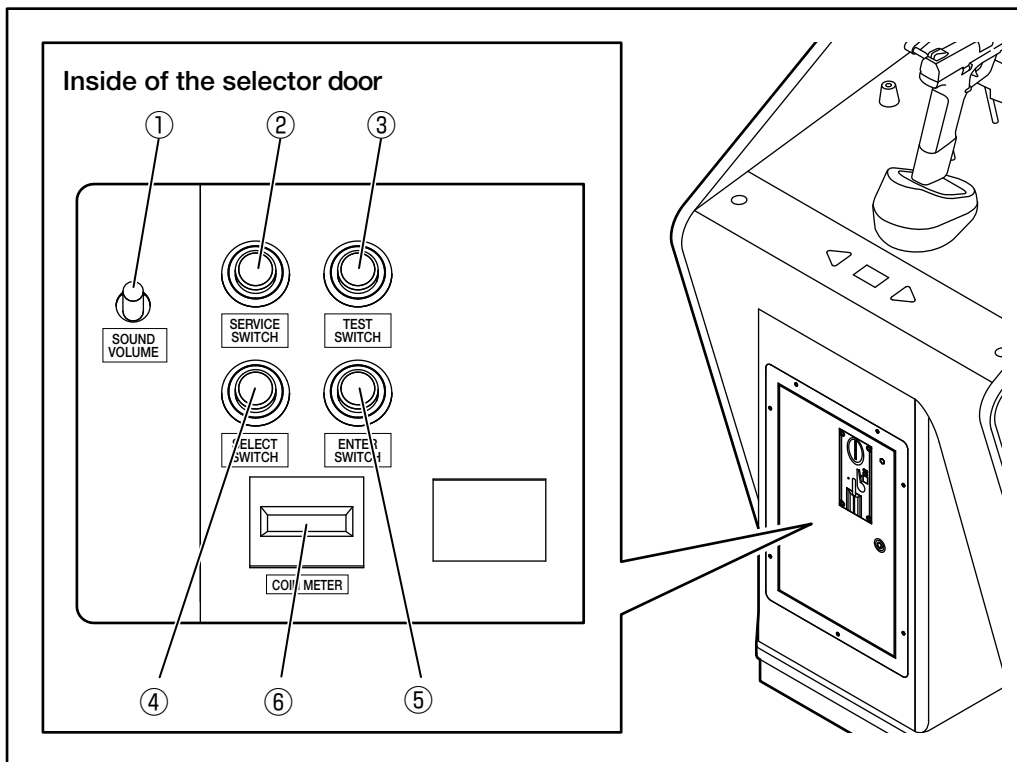
### 3-1. Operation check

#### 3-1-1 Name of each part and functions



①	Select button (Left)	Use for game select and start.
②	Enter button	
③	Select button (Right)	
④	Gun device	Use for operation.

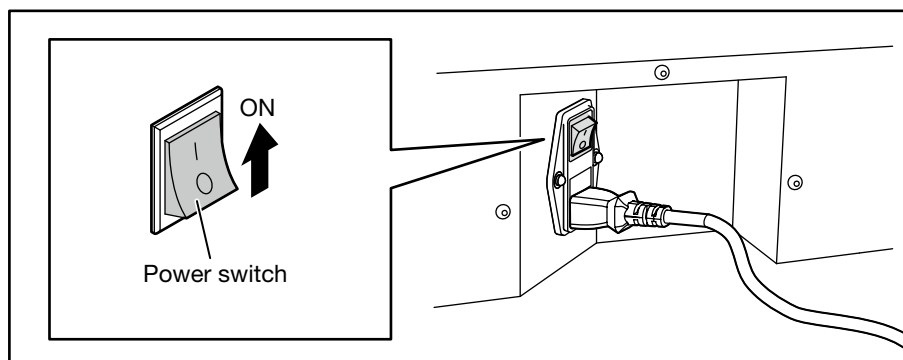
• Inside of selector door



①	<b>Sound volume</b>	Used to adjust the master volume of the game. Turn clockwise to increase the volume; turn counterclockwise to decrease the volume.
②	<b>Service switch</b>	Add a coin without counting to the coin meter. ※ Service coin use is allowed up to 20 consecutive times. The upper limit is either coin-in, test-out, or power is released by one of the re-injects.
③	<b>Test switch</b>	Switch to test mode
④	<b>Select switch</b>	Used for manipulation, such as selecting items during test mode.
⑤	<b>Enter switch</b>	Used for confirm the value change, during test mode.
⑥	<b>Coin meter</b>	Add a coin : count up by 1.

### 3-1-2 Supplying the power

- 1 Turn the power switch on.  
Refer to the instructions for the compressor and turn the power switch on.

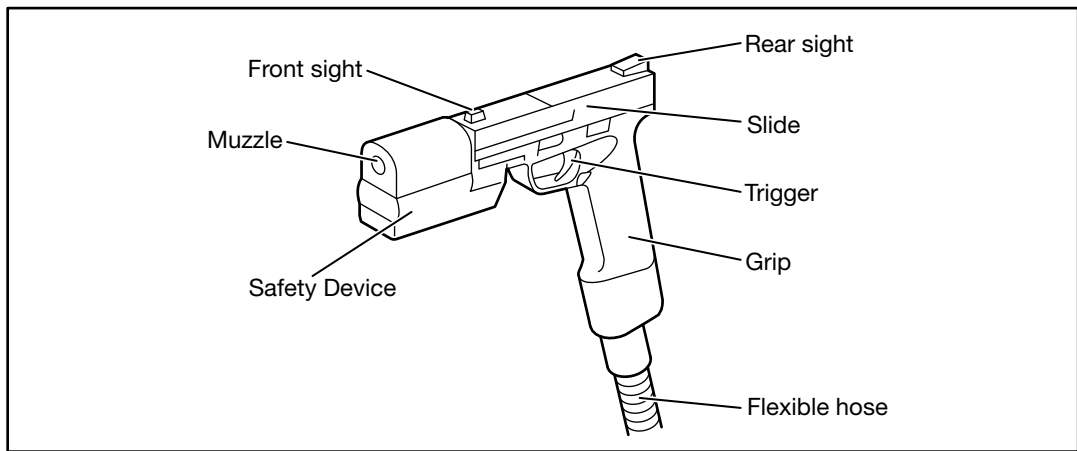


- 2 If an error is displayed on the screen, see P.104 [Error message] to remove the error.

### 3. Operation

#### 3-2. Explanation of the Gun device

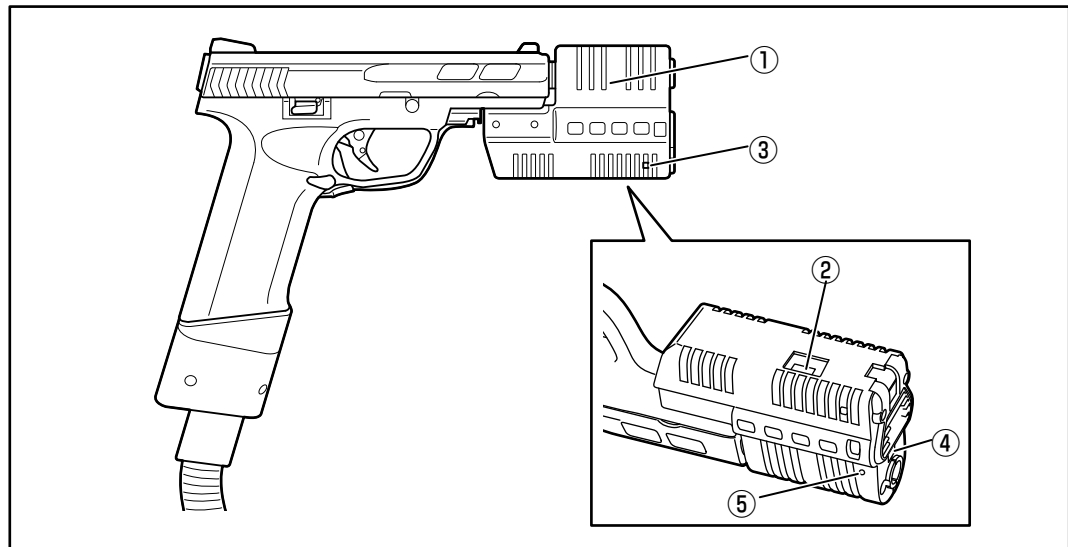
##### 3-2-1 Name of each part



##### 3-2-2 Function of the safety device

### ⚠ CAUTION

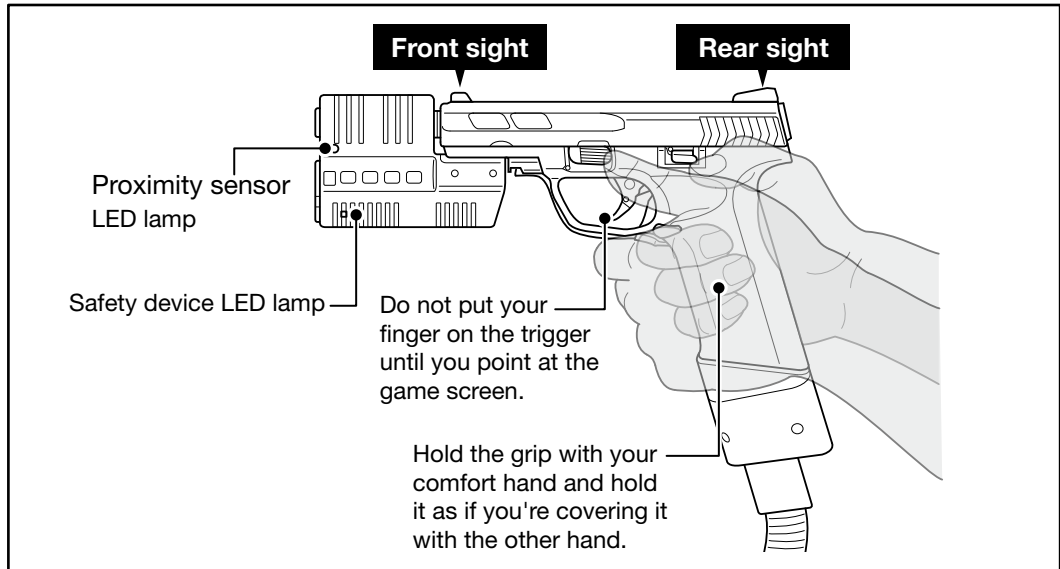
- If you are using the wrong method, it may not work properly.
- Do not hand block the safety device sensors (2 ea.).
- Be cautious for falling or impact from the gun device.



①	<b>Safety device</b>	BBs cannot fired from outside of the screen or outside of the game.
②	<b>ID switch</b>	The ID can be set from 1 to 4. You must set the same number as the machine. ※ You can change the ID setting on safety devices and machines. ※ Use it if you have multiple machines installed side by side. <b>See P.62 [System settings.]</b>
③	<b>Safety device LED lamp</b>	Green light : BBs cannot be fire. Red light : BBs can be fire.
④	<b>Proximity sensor</b>	If an obstacle is detected on a straight line within 1,300mm of the Gun device muzzle, it will not fire BB bullets.
⑤	<b>Proximity sensor LED lamp</b>	Red light : BBs cannot be fire. Green light : BBs can be fire.

### 3-2-3 How to hold the gun device.

If the player is holding the gun device in a dangerous position, please guide the instructions.



 <b>CAUTION</b>	<ul style="list-style-type: none"> <li>● Use the gun device in vertical position rather than horizontal.</li> </ul> <div style="text-align: right;"> </div>
--------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------

 <b>WARNING</b>	<ul style="list-style-type: none"> <li>● Do not cover the safety device with your hands.</li> </ul> <div style="text-align: right;"> </div>
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### 3-3. Explanation of the game system

#### 3-3-1 How to play

##### 1 Game starts

Insert coins. In demo play, press enter button.

※ See P.62 [System settings]to set up demo play mode.

##### 2 Single mode



Select single or vs.

- In single mode, select the game type and level 「Beginner mode」 and 「standard mode」
- In vs mode, select the number of people.

##### 3 VS Mode



Select the number of players.  
Select from 2~4 players.

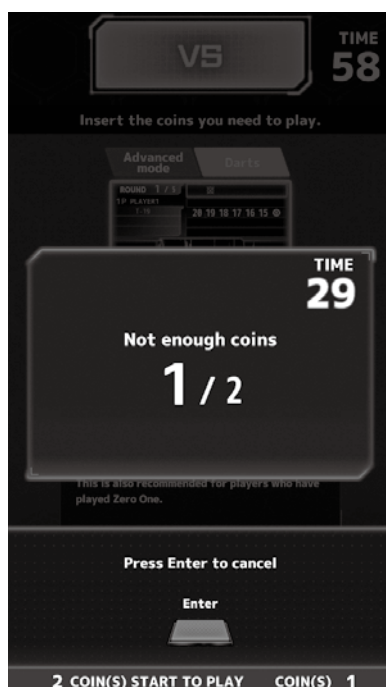
4 Select the game



Select the game.  
The game mode is different depend on the number of players.

Select 「Back」 to return to the previous menu.

5 Not enough coins



The coin check screen will appear if the number of coins are short.

If the coin has been inserted, the game starts automatically.

If the 「Time」 is 0 and the coins are short, it will automatically return to the previous menu.

### 6 Confirm



The final confirmation screen will be displayed before the game starts.

If you select and press 「Start」 button on screen, the game will start.

If you select and press 「Back」 button on screen, it will return to the previous menu.

### 7 Game starts



Game starts with 3, 2, 1, Go! voice.

※ You cannot fire BBs before the game starts.

See. P.48 [Explanation of the gun device]

8 Game mode



Play the game.

9 Result



Result will show the player's scores.

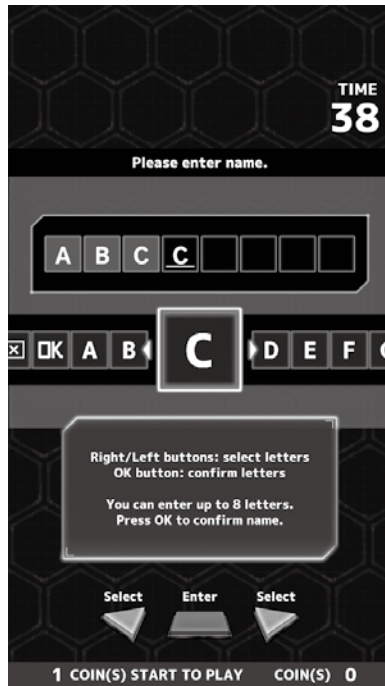
- If the game mode is single and the player's score is within the top 10, it will be registered in the ranking.

If the player's score is within the top 10 rank, it will remain in name entry.

If the player's score is out of the top 11 rank, it will remain in the rank record.

- If the game mode is vs, there are no rankings.

## 10 Name entry



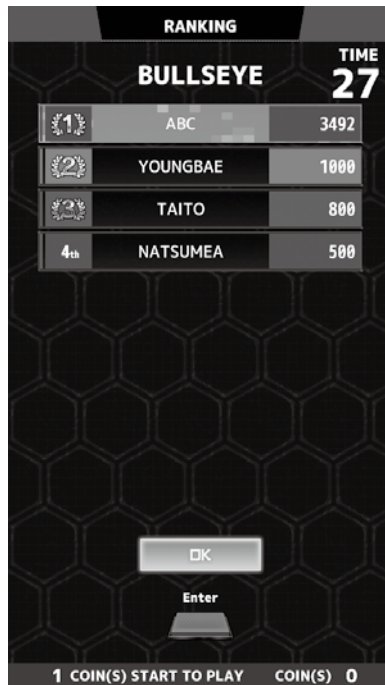
Input names for ranking.

Enter the characters Max 8 letters.

The ranking record from top 4~10 will be automatically deleted when you turn off the machine.

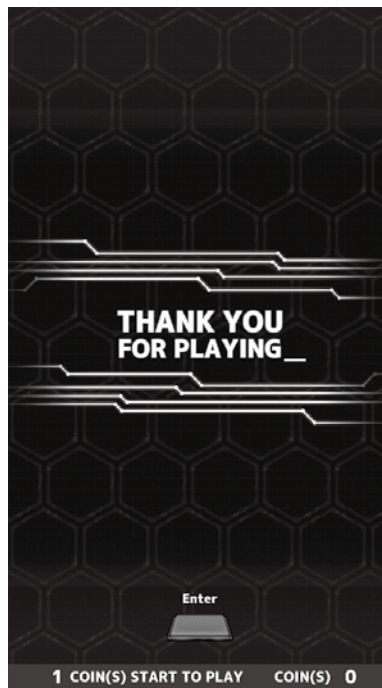
See. P.65 [Clear ranking]

## 11 Ranking



Mark the rank of current game mode.  
Top 1~10

### 12 Exit the game mode



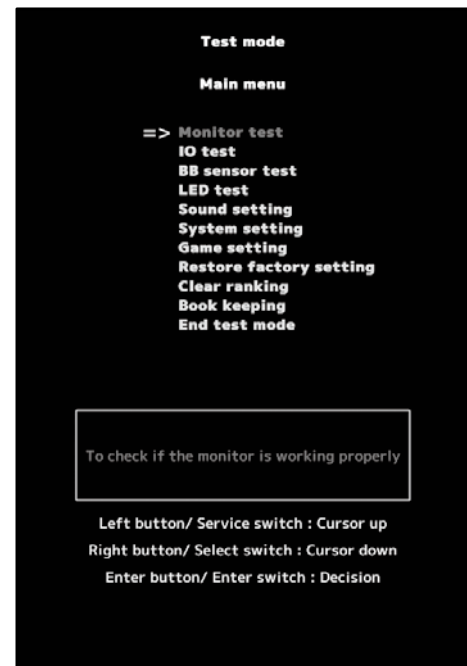
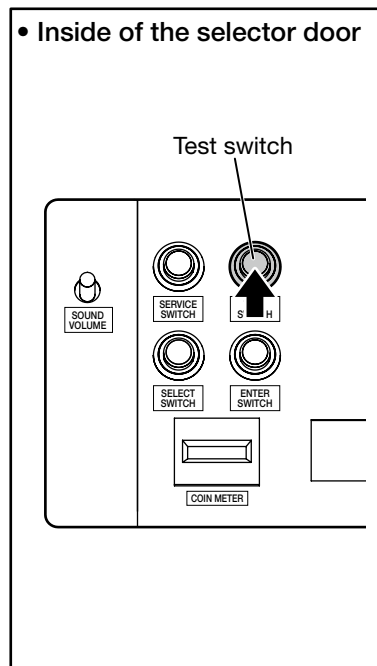
End the game.  
Return to the demo regardless of the remaining coin(s).

## 3. Operation

### 3-4. Test mode

#### 3-4-1 Description of test mode

- 1 Open the selector door while the game is on.  
See P.75 [How to open the selector door]
- 2 Press test switch to enter test mode.



[Test mode screen]

#### 3-4-2 How to setup test mode

##### ■ Service switch, Select switch

Select the items.

※ You can also use the left and right button.

##### ■ Enter switch

Confirm the selected items.

※ You can also use the enter button.

#### 3-4-3 How to end test mode

Select back on test mode screen or Press test switch to end test mode.

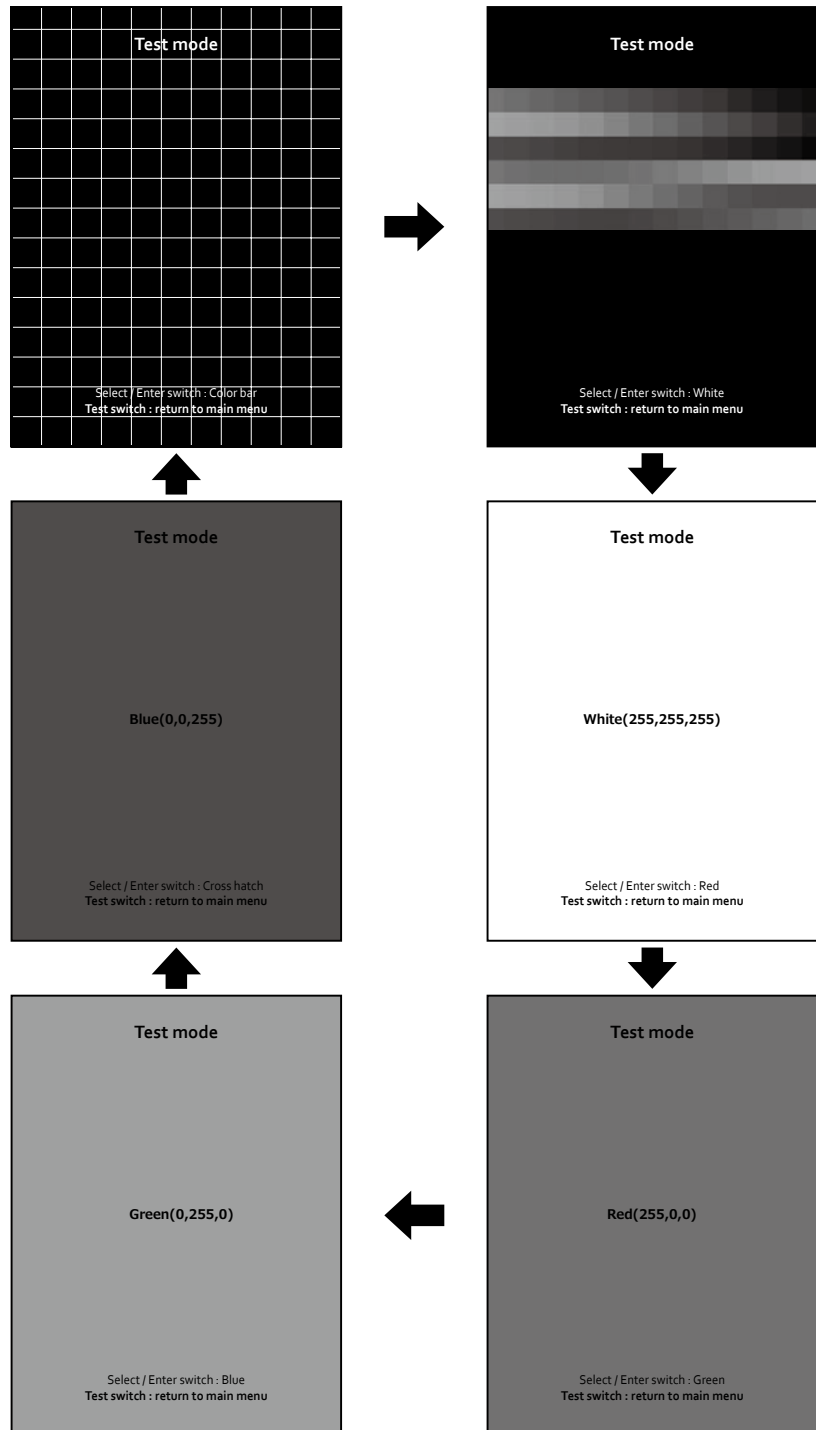
#### 3-4-4 Test mode lists

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[I/O test] .....	58	[Restore factory setting] .....	64
[BB sensor test] .....	59	[Clear ranking] .....	65
[LED test] .....	60	[Book Keeping] .....	66
[Sound setting] .....	61	[End test mode] .....	68
[System settings] .....	62		

**[Monitor test]**

To check if the monitor is working properly.

- 1 Select 「Monitor Test」 and confirm in the main menu.
- 2 Press enter or enter switch and LED lights 「Cross hatch」 ⇒ 「Color Bar」 ⇒ 「White」 ⇒ 「Red」 ⇒ 「Green」 ⇒ 「Blue」 light alternatively.

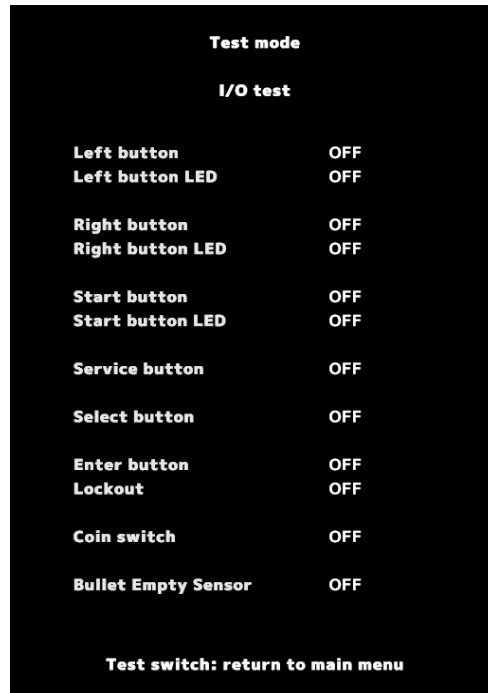


- 3 Press test switch to go back to main menu.

#### [I/O test]

To check if all switches are working properly.

- 1 Select 「I/O Test」 in main menu and confirm.
- 2 Press button or switch to check.



Item	Contents
<b>Left button</b>	Press and hold left button to on.
<b>Left button LED</b>	Press left button to change left button LED on/off.
<b>Right button</b>	Press and hold right button to on.
<b>Right button LED</b>	Press right button to change right button LED on/off.
<b>Start button</b>	Press and hold select button to on.
<b>Start button LED</b>	Press select button to change select button LED on/off.
<b>Service button</b>	Press and hold service switch to on.
<b>Select button</b>	Press and hold select switch to on.
<b>Enter button</b>	Press and hold enter switch to on.
<b>Coin switch</b>	When coin switch is active, it is on. When you test it, coin meter is also active.

- 3 Press test switch to go back to main menu.

**[BB sensor test]**

To perform BB sensor test

**CAUTION**

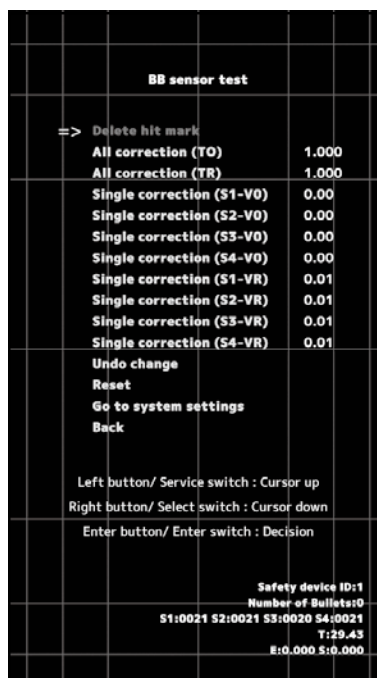
- Only adjust this function when there is sensor error. If you adjust this sensor, it may not work. Please reset as factory rest if there is any problem.

**1**

Select 「BB sensor test」 and confirm in the main menu.

**2**

Select the item and enter to setup.



Item	Contents
<b>Delete hit mark</b>	Delete all hit mark.
<b>All correction (TO)</b>	Adjust the response time from the center of the screen close to the outside of the screen. Adjustable to 0.001 units in the range of 0.900 to 0.001 units. The bigger the number, the more it goes out.
<b>All correction (TR)</b>	Adjust the response time from the center of the screen close to the outside of the screen. Adjustable to 0.001 units in the range of 0.900 to 0.001 units. The bigger the number, the more it goes out.
<b>Single correction (S1~4-VO)</b>	If the detection position is distorted overall, the distortion criteria can be adjusted to 0.01 units in the range of -1.00 to 1.00. Changing the figure will distort the position of S2 to S4 for S1.
<b>Single correction (S1~4-VR)</b>	If the detection position is distorted overall, the distortion criteria can be adjusted to 0.01 units in the range of -1.00 to 1.00. Changing the figure will distort the position of S2 to S4 for S1.
<b>Undo change</b>	Reset
<b>Reset</b>	Delete the current setting and return to BB sensor setting to factory reset.

Continue in the next page. ➡

### 3. Operation

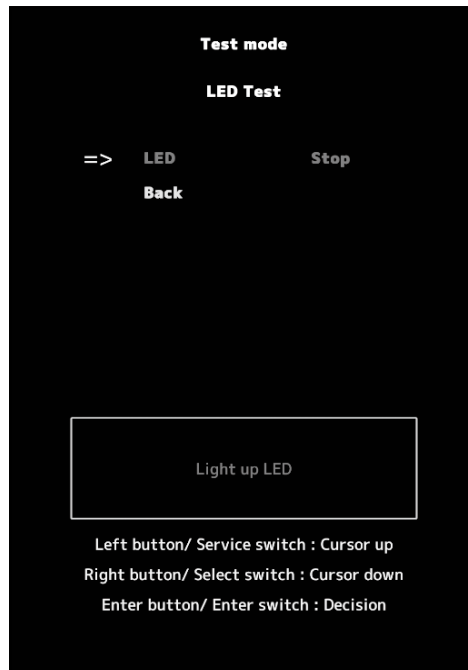
Sensor	Location
S1	Upper left
S2	Upper right
S3	Lower left
S4	Lower right

- 3** Back : Return to main menu.  
Do you want to save?  
**No** : Return to main menu without save.  
**Yes** : Return to main menu with save.

#### [LED test]

Test the LED to work properly.

- 1** Select 「LED test」 and confirm in the main menu.
- 2** Select the item and enter to setup. LED light will on.



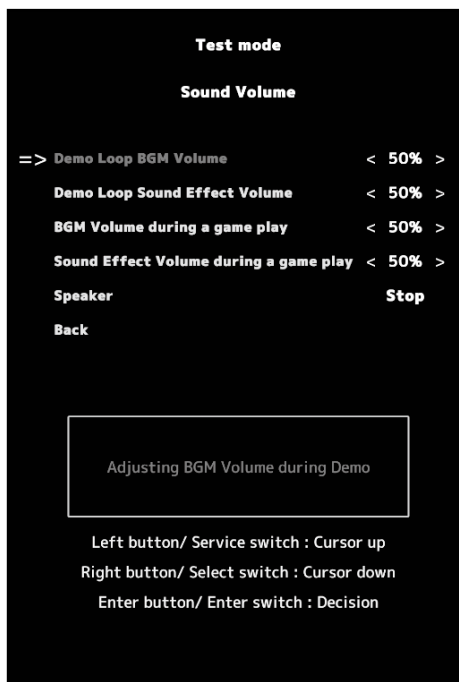
Item	Contents
<b>LED</b>	Press Play to active the LED. • Press enter or enter switch and LED lights Red ⇒ Yellow ⇒ Green ⇒ Blue ⇒ Purple light alternatively.

- 3** Back : Return to the main menu.

**[Sound setting]**

To check sound setting.

- 1 Select 「Sound setting」 and confirm in the main menu.
- 2 Select the item and enter to setup.



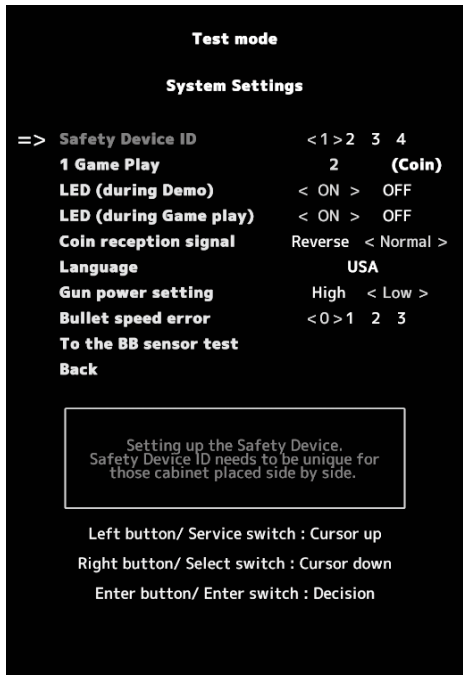
Item	Contents	Factory setting
<b>Demo Loop BGM Volume</b>	Adjusting BGM Volume during Demo. (0%~100%)	50%
<b>Demo Loop Sound Effect Volume</b>	Adjusting Sound Effect Volume during Demo. (0%~100%)	50%
<b>BGM Volume during a game play</b>	Adjusting BGM Volume during a game.(0%~100%)	50%
<b>Sound Effect Volume during a game play</b>	Adjusting Sound Effect Volume during a game. (0%~100%)	50%
<b>Speaker</b>	The sample sound for speaker testing will be played. <b>Left :</b> The emphasized sound will be played from left speaker. <b>Right :</b> The emphasized sound will be played from right speaker. <b>Left and Right :</b> The emphasized sound will be played from both left and right speaker.	

- 3 **Back :** Return to the main menu.  
 Do you want to save?  
**No :** Return to main menu without save.  
**Yes :** Return to main menu with save.

## [System settings]

To set the type of operation or the number of coins.

- 1 Select 「System settings」 and confirm in the main menu.
- 2 Select the item and enter to setup.



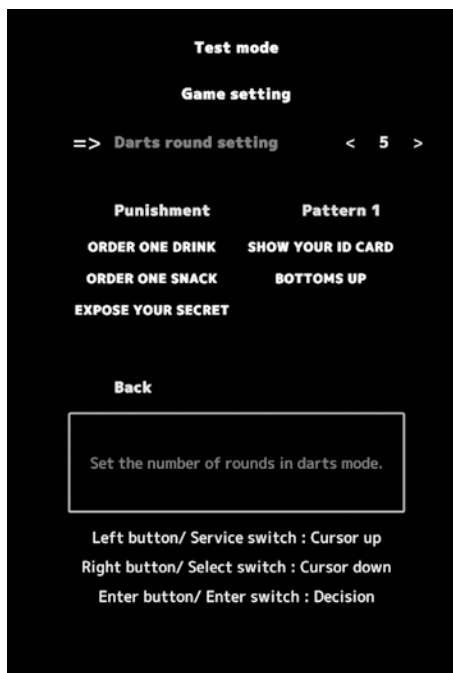
Item	Contents	Factory setting
Safety device ID	Setting up the safety device. Safety device ID needs to be unique for those cabinets placed side by side.	1
1 Game Play	Setting up the coins required to play 1 game. Choose one from 1 to 12. FREEPLAY will start if FREE is chosen.	2
LED(during demo)	LED setting during demo.	ON
LED(during game play)	LED switches on during game play. Otherwise switches off all the time.	ON
Coin reception signal	Set the operation of the coin acceptance signal.	Normal
Language	Set the destination of the cabinet.	USA
Gun power setting	Set the sensitivity of the sensor by power of the gun device. High : Not used Low : By the Gun device.	Low
Bullet speed error	Setting the approved bullet speed. Error arise if the bullet speed exceeds the approved bullet speed. 0 : Error off 1~3 : Error arise as the number increases.	0
To the BB sensor test	Return back to BB sensor test screen	

- 3 **Back** : Return to the main menu.  
Do you want to save?  
**No** : Return to main menu without save.  
**Yes** : Return to main menu with save.

**[Game setting]**

Set the number of rounds in dart mode.

- 1 Select 「Game setting」 and confirm in the main menu.
- 2 Select the item and enter to setup.



Item	Contents	Factory setting
<b>Darts round setting</b>	Set the number of rounds in dart mode (No. 5~20)	5
<b>Punishment</b>	Set patterns for punishments for vs mode. There is no punishment in <None> setting.	Pattern 1

■ Game setting

<b>Pattern A</b>	ORDER ONE DRINK!
	ORDER ONE SNACK
	BOTTOMS UP
	SHOW YOUR ID CARD
	BOTTOMS UP
<b>Pattern B</b>	SHOW YOUR ID CARD
	MAKE A FUNNY FACE
	MIME AN ANIMAL
	MAKE A CHALLENGE
	SQUAT X 5

<b>Pattern C</b>	ORDER ONE DRINK!
	ORDER ONE SNACK
	EXPOSE YOUR SECRET
	MAKE A FUNNY FACE
	MAKE A CHALLENGE
<b>Pattern D</b>	EXPOSE YOUR SECRET
	MAKE A CHALLENGE
	ONE MORE DRINK
	SHOW YOUR ID CARD
	MIME AN ANIMAL

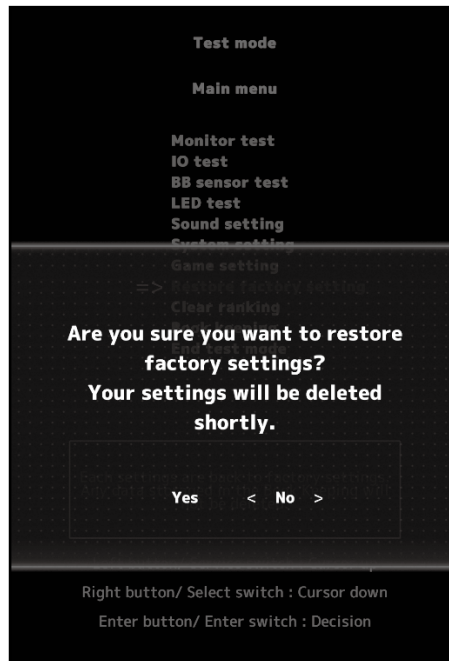
<b>Pattern E</b>	ORDER ONE DRINK!
	ORDER ONE SNACK
	MAKE A JOKE
	MAKE A FUNNY FACE
	EXPOSE YOUR SECRET

- 3 **Back** :Return to the main menu.  
Do you want to save?  
**No** : Return to main menu without save.  
**Yes** : Return to main menu with save.

## [Restore factory settings]

Each settings are back to factory setting.

- 1 Select 「Restore factory setting」 and confirm in the main menu.
- 2 「Yes」 Restore factory setting.



Item	Contents
<b>BB sensor test</b>	BB sensor setting is back to factory setting.
<b>Sound setting</b>	Demo Loop BGM Volume : 50% Demo Loop Sound Effect Volume : 50% BGM Volume during a game play : 50% Sound Effect Volume during a game play : 50%
<b>System settings</b>	Safety device ID : 1 1 Game Play : 2 (coins) LED (During Demo) : ON LED (During Game play) : ON Coin reception signal : Normal Language : USA Gun power setting : Low Bullet speed error : 0
<b>Game setting</b>	Darts round setting : 5 Punishment : Pattern 1
<b>Clear ranking</b>	Reset the ranking

※ Bookkeeping data will remain.

※ The language changes to English when you imitate the factory rest.

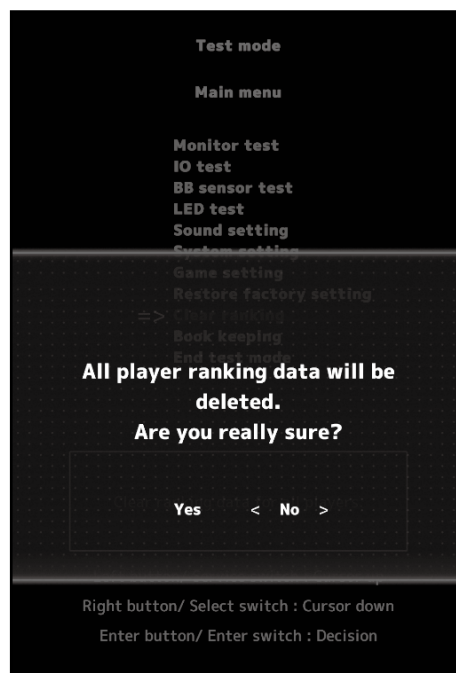
See P.62 [System setting]

- 3 **No** : Return to the main menu.  
**Yes** : Saving. Please do not turn off the power switch while saving.

**[Clear ranking]**

Clear ranking data for all players.

- 1 Select 「Clear ranking」 and confirm in the main menu.
- 2 「Yes」 The ranking data had been deleted.



- 3 **No** : Return to the main menu.  
**Yes** : Saving. Please do not turn off the power switch while saving.

## 3. Operation

### [Book Keeping]

To see play results records

**1** Select 「Book Keeping」 and confirm in the main menu.

**2** Enter 「Next」 to go next page.

Check below contents in Book Keeping.

#### ▼ Book Keeping : 1/4

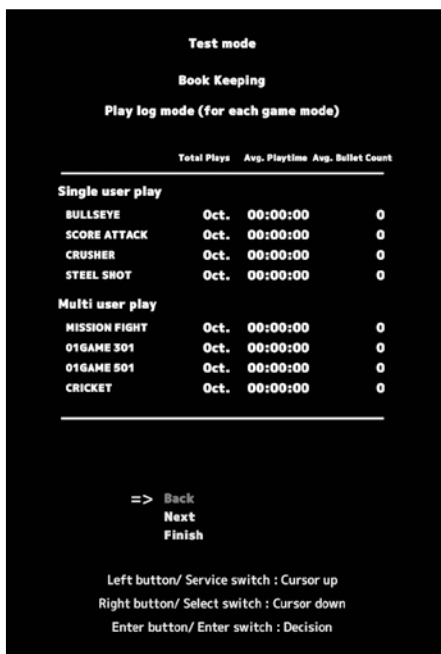
Check total operation time and play log.



Item	Contents
<b>Total operation time</b>	Shows the total operation time.
<b>Total play time</b>	Shows the total play time.
<b>Operation rate</b>	Shows the rate of the operation time per play time.
<b>Game play count</b>	Shows the total play counts.
<b>Average game play time</b>	Shows the play time per one play.
<b>Total service switch push count</b>	Shows the number of service switch counts.
<b>Total free play count</b>	Shows the the number of free play counts.
<b>Coin meter</b>	Shows the number of coin-in. ※ The machine and coin meter will not match.
<b>Total use of bullet count</b>	Shows the number of bullet counts. ※ It will not count during game select and Demo play.
<b>Average game use of bullet count</b>	1Shows the Avg. number of bullet counts during per play. ※ It will not count during game select and Demo play.
<b>Delete all data</b>	Delete all book keeping data. ※ BB sensor setting, Game setting, System setting, and ranking data will not deleted.

▼ Book Keeping : 2/4

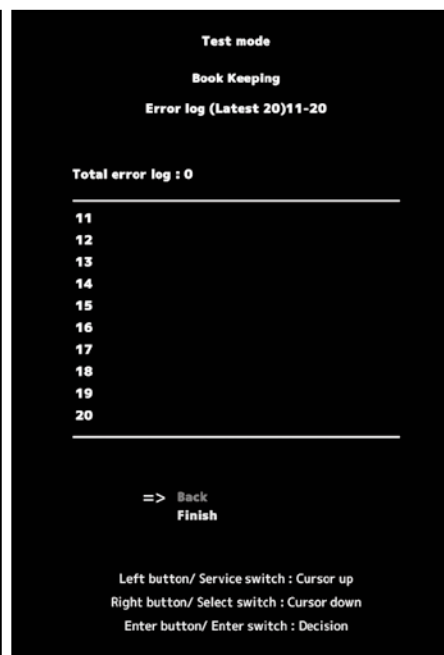
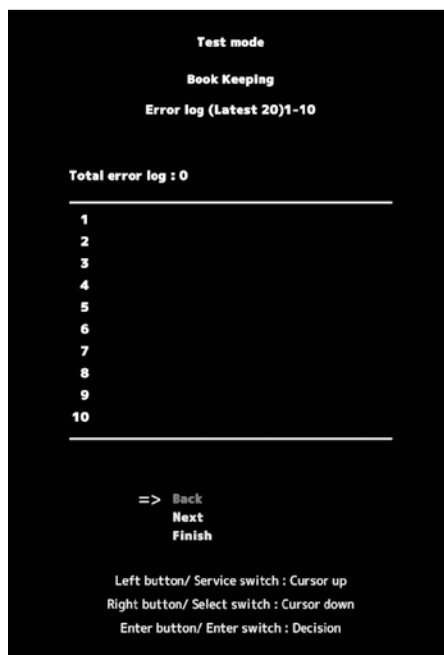
Play log mode (for each game mode)



Item	Contents
Total plays	Shows the number of total plays.
Avg. Playtime	Shows the Avg. number of play time per mode.
Avg. bullet count	Shows the Avg. number of BBs used. ※ It will not count during game select and Demo play.

▼ Book Keeping : 3~4/4

Error log (Latest 20)



Item	Contents
Total error log	Shows the number of total error logs.
Error log	Shows the contents and date of the latest 1~20 logs.

## 3. Operation

---

3

**Finish** : Return to the main menu.

### **[End test mode]**

End the test mode.

Select 「End test mode」 and confirm in the main menu.

# 4. Maintenance

## About Maintenance

### CAUTION

- Be sure to handle by experienced staff or engineers.

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### ■ 4-1. About inspection

#### CAUTION

- Conduct inspection periodically. Failure to conduct periodic inspection may result in unexpected accidents.

#### ■ About inspection

Clean following items before operation. Focus on parts where the players mainly touch.

##### Inspection items.

##### ① Failure and use of the power cable

- Make sure there are no items on the power cable. If the connectors are covered with dust, clean them.
- Make sure there are no damages to the surface of the power cable.
- Check the power cable to make sure that the cable sheath is not cracked or dirty. If there is any abnormality in the power cable, replace it with a new cord.
- Make sure the power cable plugged in correctly.
- Check the ground lead on the outlet adapter is connected.

##### ② Air compressor

- Make sure the air compressor works properly.

##### ③ Exterior damage

- Make sure there is no damage or stain on the machine.
- Check the warning labels on the machine.

##### ④ Installation space

- Make sure the machine did not move the setup location.
- Make sure all the level adjusters are grounded.
- Check if there any damages of the level adjusters.

##### ⑤ Door lock

- Make sure to secure space to unlock the door.

##### ⑥ Pre-check

- Check the error screens.

##### ⑦ Pre-check (Operation)

- Check the sound
- Check the LED.
- Check the buttons working properly.

##### ⑧ Coin-meter

- Check the coin meter working properly.

##### ⑨ Safety Bar

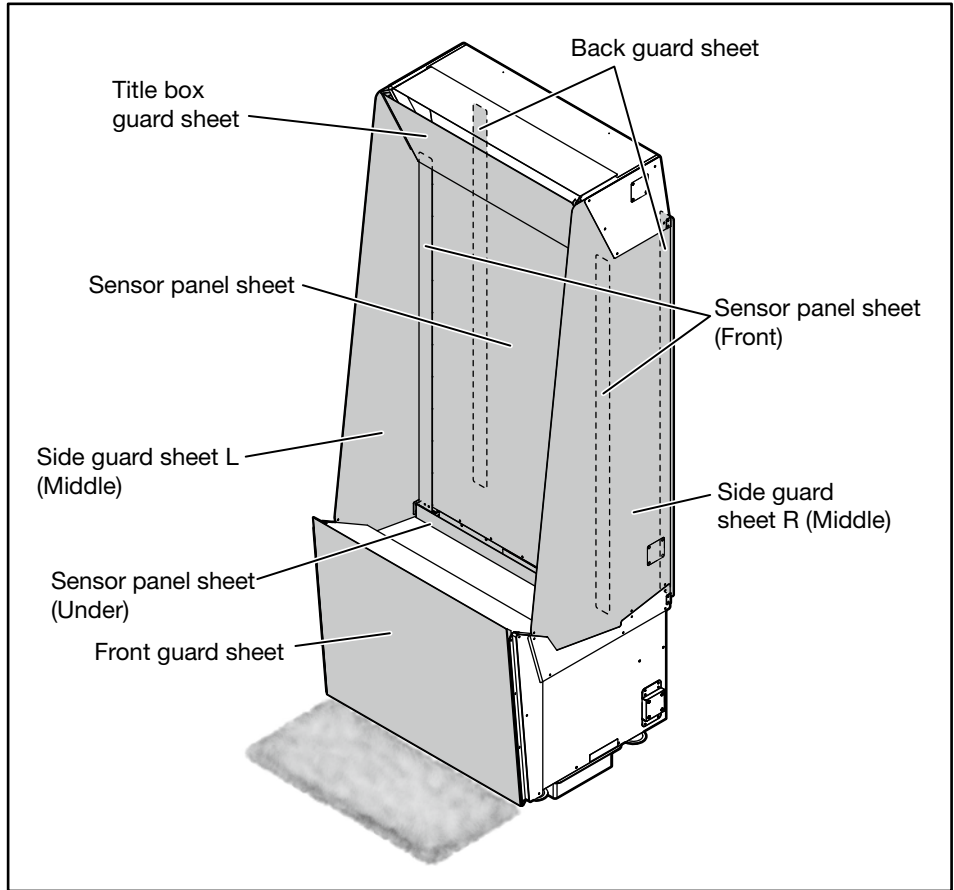
- Make sure there is no shaking or damage.
- Make sure the bolts are not loosen.

##### ⑩ BBs are loaded

- Make sure there are enough BBs in the dispenser and the BB dispenser.

⑪ Resin part

- Make sure there is no damage on the resin parts.
- Make sure there are no scars or holes in the safety cover.
- ※ If there is a crack, please stop using it and contact your local distributor.

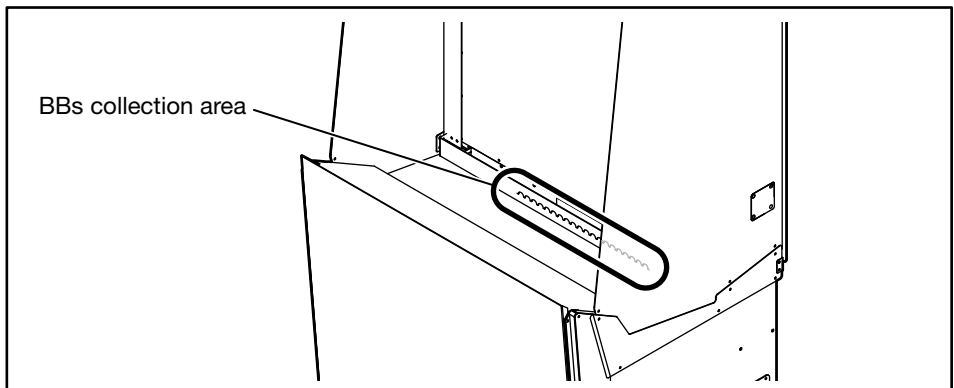


⑫ Gun device

- Make sure BBs are fired as targeted.
- Make sure there is no shacking or damage.
- Check the safety function works properly.
- Check the side lamps work properly.
- Make sure the flexible hose has no damage or tangled.

⑬ BBs collection

- Make sure there is no blockage in BBs collection area.



## 4. Maintenance

· Please remove the pile of BBs in the collection box.

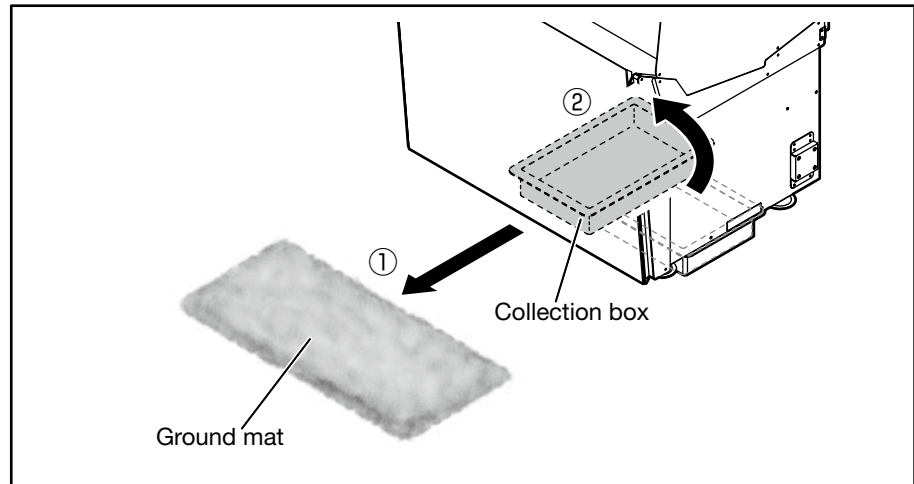
※ About 20,000 BBs are in the collection box.

※ We do not recommend the Gun device to use BBs again due to failure.

1

① Move the ground mat.

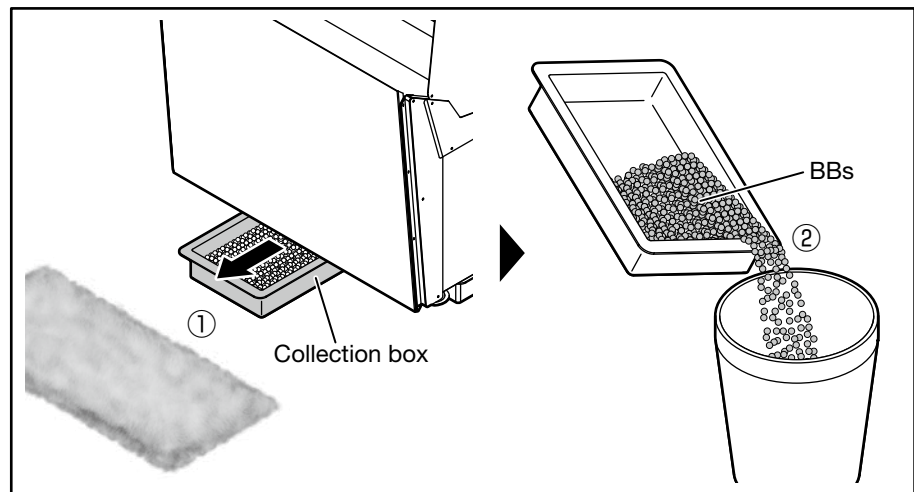
② Place your hand in front of the machine and rotate the collection box 90 degrees.



2

① Pull out the collection box.

② Remove the BBs.



### ⑭ Leftover BBs

· Make sure there are no leftover BBs in the BB dispenser.

### ■ Compressor air drain (once or twice a month)

When air is compressed, water collects in the air.

To prevent failure or rust, open the drain cock once or twice a month using the procedure below and drain the inside water.

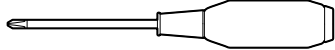
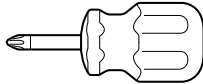
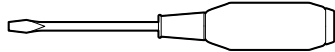
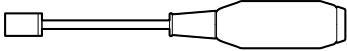

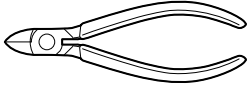
- ① When the pressure of the air compressor is about 0.8MPa, remove the power plug from the compressor from the outlet.
- ② Turn the switch OFF.
- ③ Open the drain cock. (Handle in vertical position)
- ④ Close the drain cock when the pressure gauge in the dispenser becomes 「zero」 or 「no sound」 (handle in horizontal position).

## 4-2. Before maintenance and inspection

### CAUTION

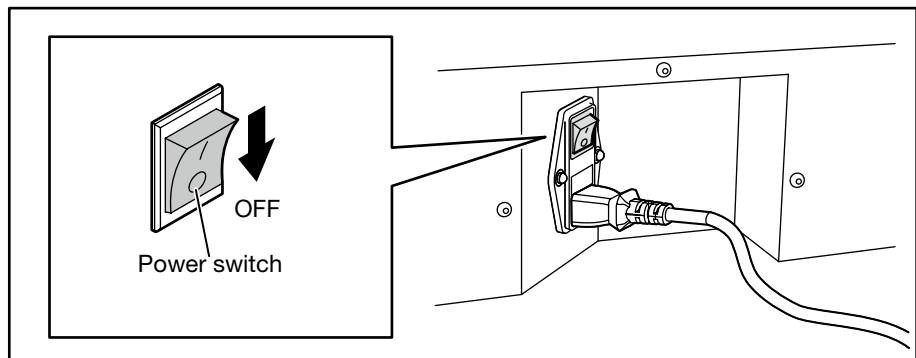
- Be sure to handle by experienced staff or engineers.  
Do not modify (reform) any parts of this document that are not instructed to do so.  
If an accident occurs due to disassembly, repair or alteration of parts without instructions, we will not be held liable for any damages to third parties.
- Do not alter the machine it can cause the failure.
- Turn off the power switch immediately, unplug the power cable, and contact your local distributor.

### Installation tool for maintenance

Tools		
Phillips screwdriver	(No.2)	
Stubbed screwdriver	(No.2)	
Flat-blade screwdriver		
Box driver	7mm / 0.27 inch 8mm / 0.31 inch 10mm / 0.39 inch	
Allen wrench	2mm / 0.07 inch 4mm / 0.15 inch	
Nipper		

### 4-2-1 Power switch OFF

Before the maintenance, turn the power switch off from the rear cabinet.  
Refer to the instructions in the compressor and turn the power switch OFF.



## 4. Maintenance

### 4-2-2 How to open service doors

#### **WARNING**

- Be sure to turn the power switch off before maintenance.

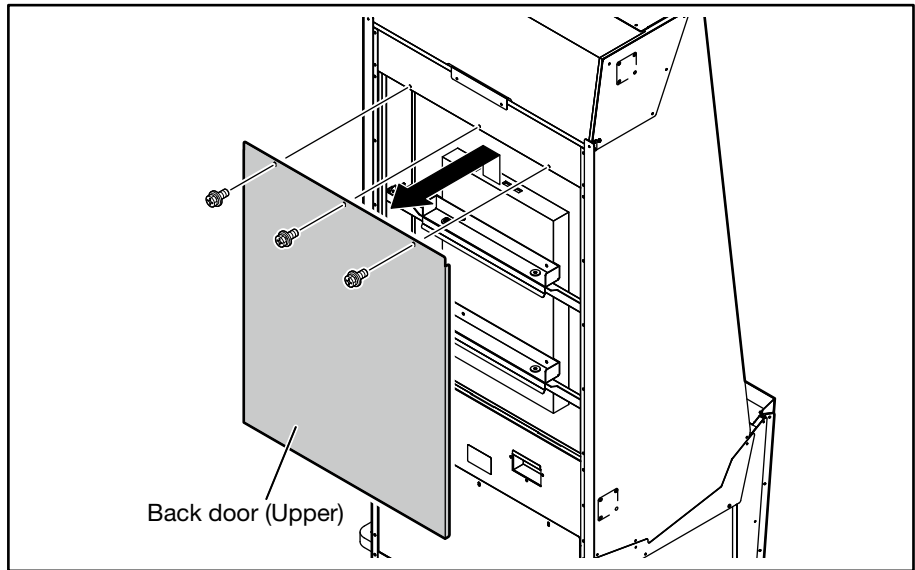
### Video cabinet Assy

#### ■ How to remove the back door (Upper)

Loosen the bolts (3 ea.) and lift the back door (Upper) slightly and dismount.  
[Sems up set bolt (W) (Black) : M5x12] (3 ea.)

#### Installation tool

- Box driver  
8mm / 0.31 inch

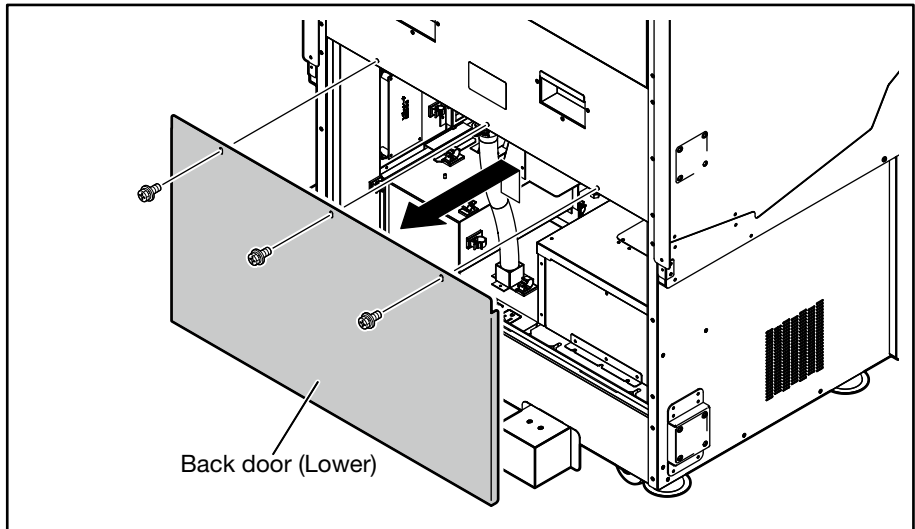


#### ■ How to remove the back door (Lower)

Loosen the bolts (3 ea.) and lift the back door (Lower) slightly and dismount.  
[Sems up set bolt (W) (Black) : M5x12] (3 ea.)

#### Installation tool

- Box driver  
8mm / 0.31 inch

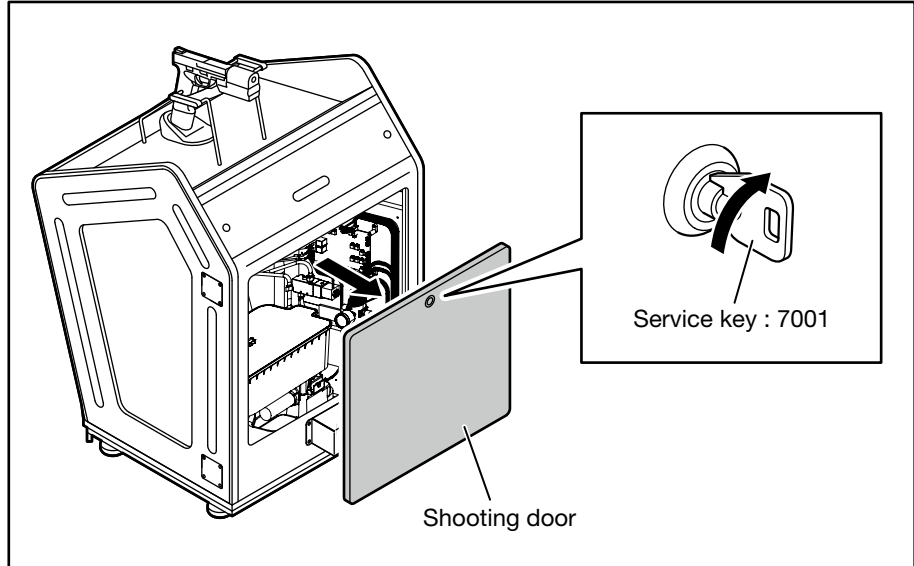


## Shooting cabinet Assy

### ■ How to remove the shooting door

Using the provided maintenance key, unlock the door by turning right.

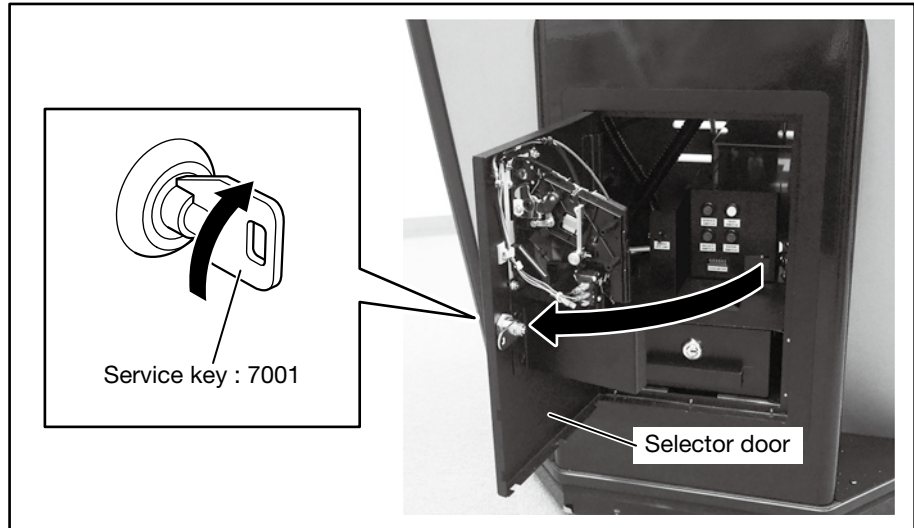
[Service key : 7001]



### ■ How to open the selector door

Using the provided maintenance key, unlock the door by turning right.

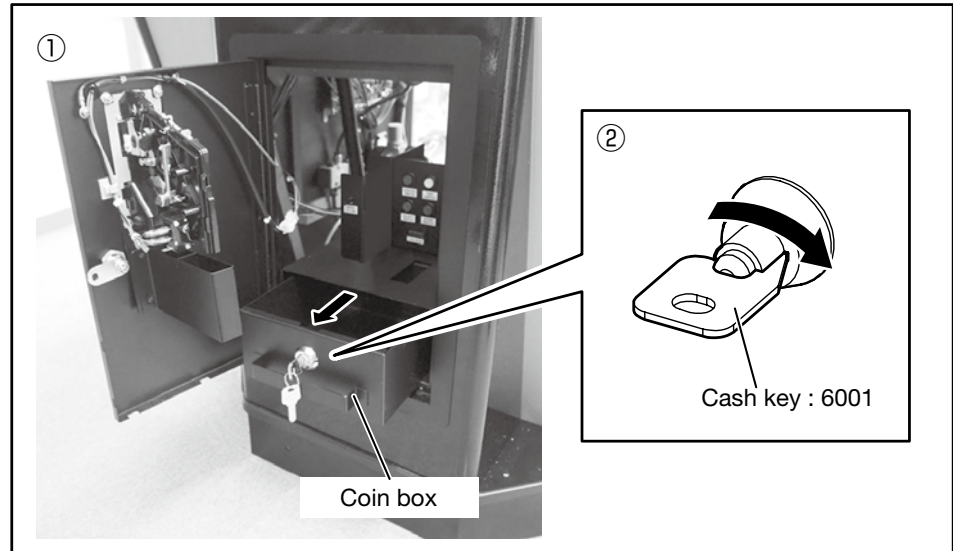
[Service key : 7001]



### ■ How to open the coin box

- ① Open the selector door.
- ② Using the provided maintenance key, unlock the door by turning right.

[Cash key : 6001]



## 4-3. How to replace parts

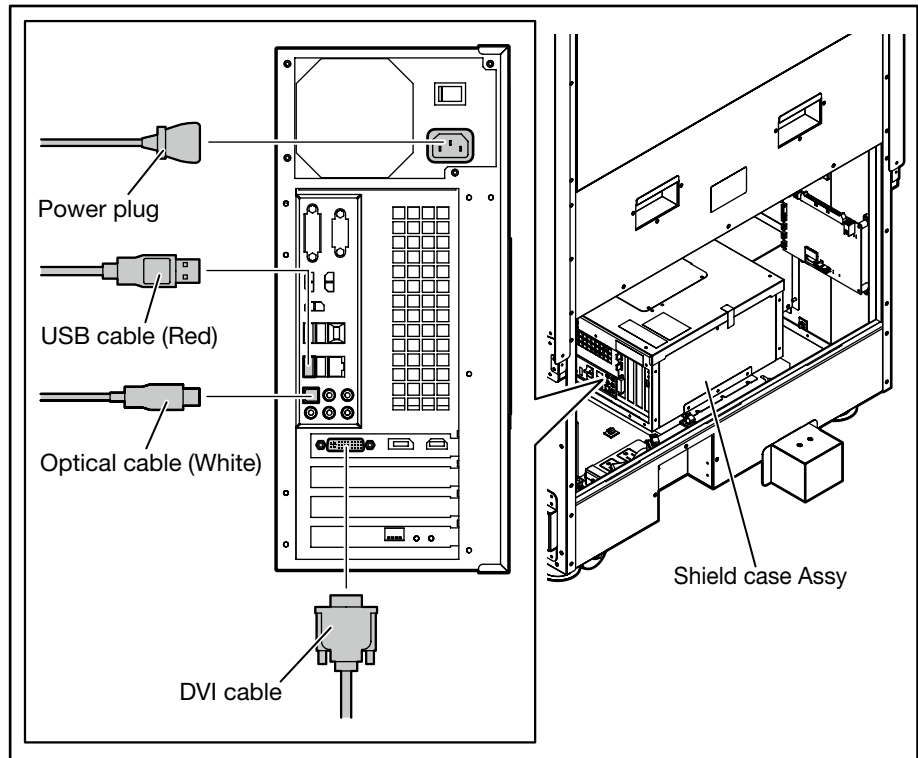
### 4-3-1 Replacing the shield case

# ! WARNING

- Be sure to turn the power switch off before maintenance.

**1** Turn off the power switch and open the back door (Lower).  
See P.74 [How to remove the back door (Lower)]

**2** Remove connecting cables (4 ea.) from the shield case.



## 4. Maintenance

3

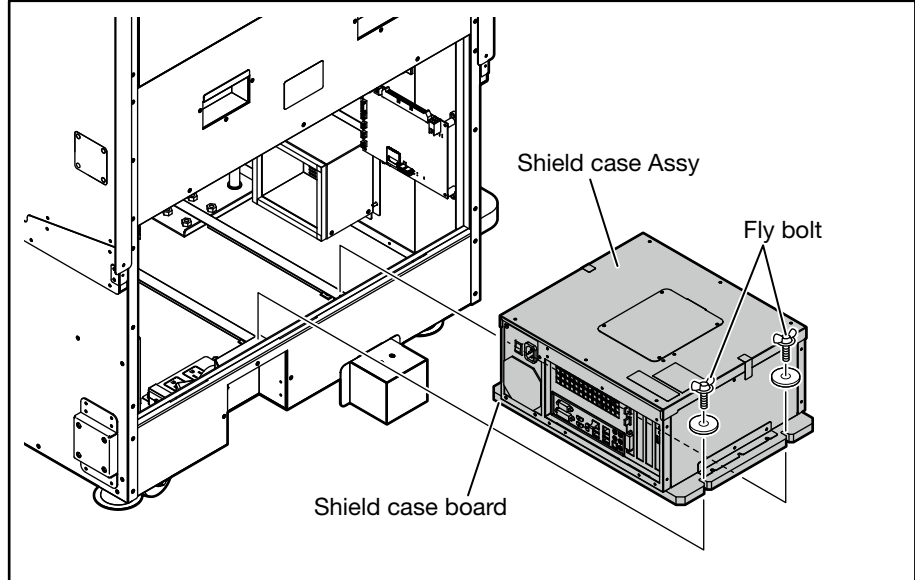
Loosen the bolts and washers (2 ea.) and dismount the shield case board and shield case Assy.

[Fly bolt : M4x20] (2 ea.)

[Flat washer (Black) : 4.5x18x1.6T] (2 ea.)

### WARNING

Be careful not to jam the cable.



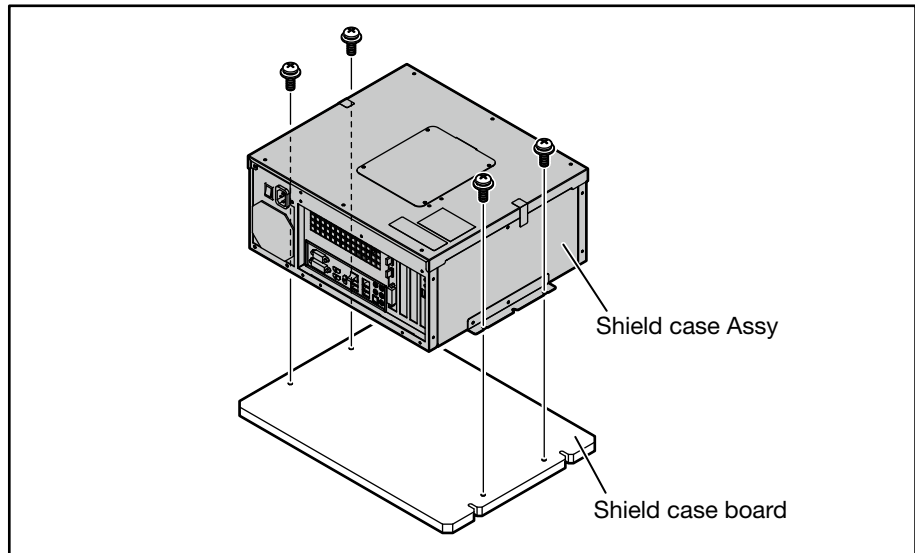
4

Loosen the screws (4 ea.) and replace with new one.

[Sems screw (W) : M4x14] (4 ea.)

### Installation tool

• Phillips screwdriver(No.2)



[Shield case : SHIELD CASE & HDD ASSY-ONPOINT]

### 4-3-2 Replacing the PCB Assy

## ! WARNING

- Be sure to turn the power switch off before maintenance.
- Be sure to prepare a stable ladder, plate, etc. to install the title box Assy. Be careful since it is located in a high position.

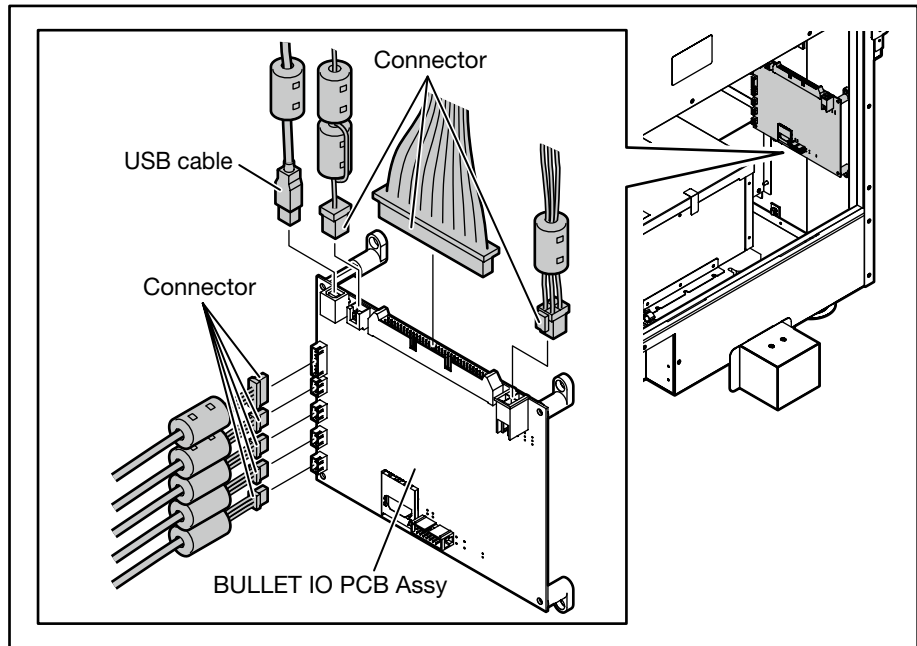
#### [BULLET IO PCB ASSY]

1

Turn off the power switch and open the back door (Lower)  
See P.74 [How to remove the back door (Lower)]

2

Remove connectors (8 ea.) and USB cable (1 ea.) from the BULLET IO PCB Assy.

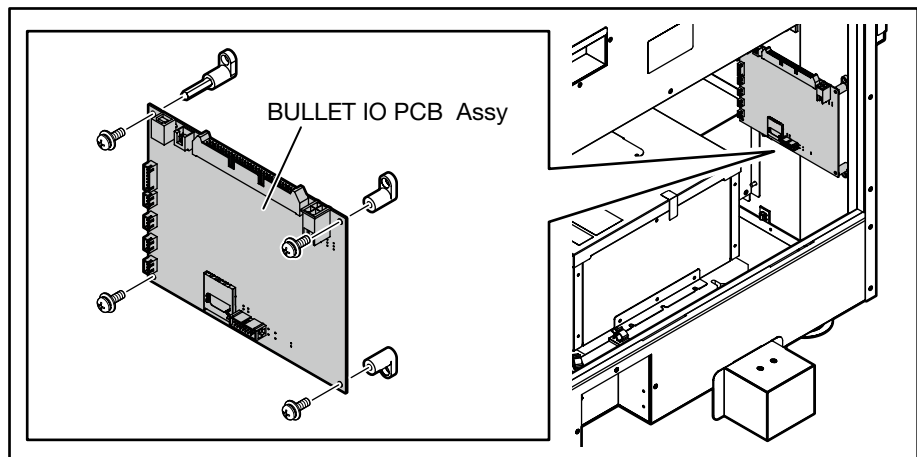


3

Loosen the screws (4 ea.) and replace with new one.  
[Sems screw (W) : M3x8] (4 ea.)

#### Installation tool

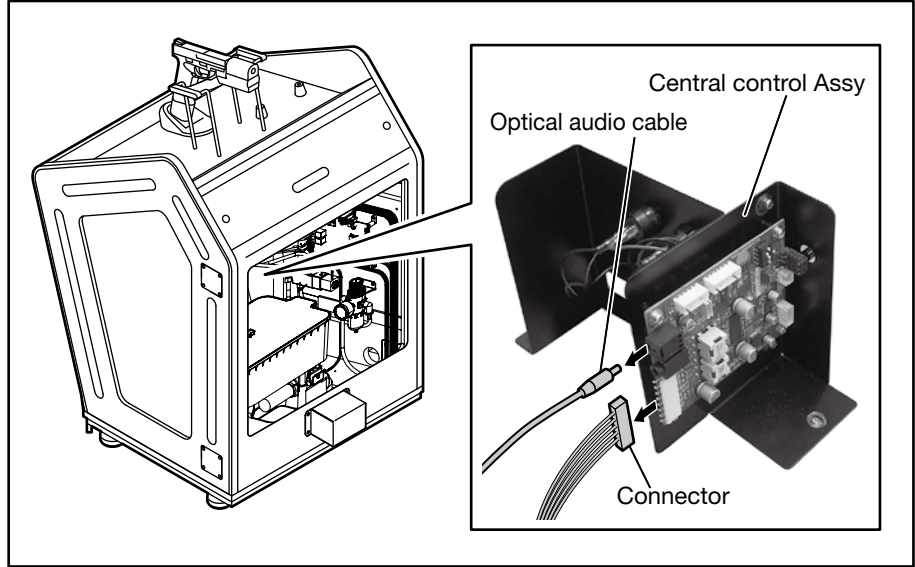
- Phillips screwdriver(No.2)



#### [BULLET IO PCB ASSY]

### [OPTICAL VR AMP PCB ASSY]

- 1** Turn off the power switch and open the shooting door.  
See P.75 [How to remove the shooting door.]
- 2** Remove connectors (3 ea.) and optical audio cable (1 ea.) from the central control Assy.

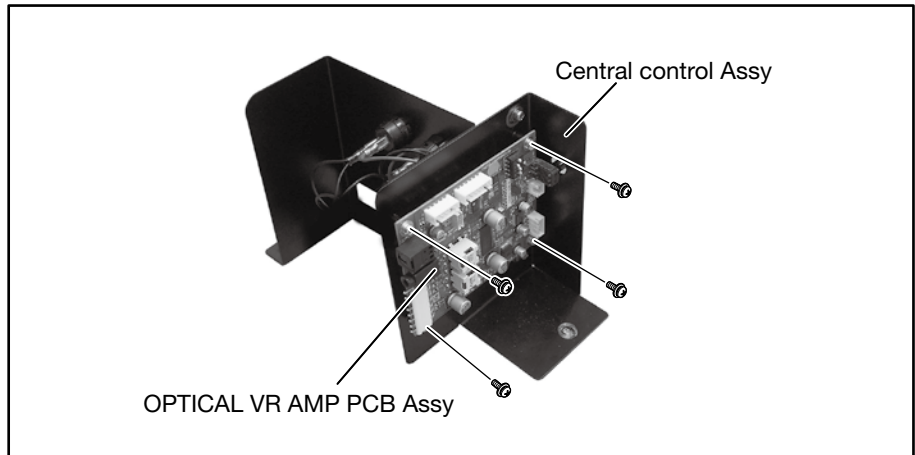


- 3** Loosen the screws (4 ea.) from central control Assy and replace the OPTICAL VR AMP PCB Assy.

[Sems screw (W) : M3x8] (4 ea.)

#### Installation tool

- Phillips screwdriver(No.2)

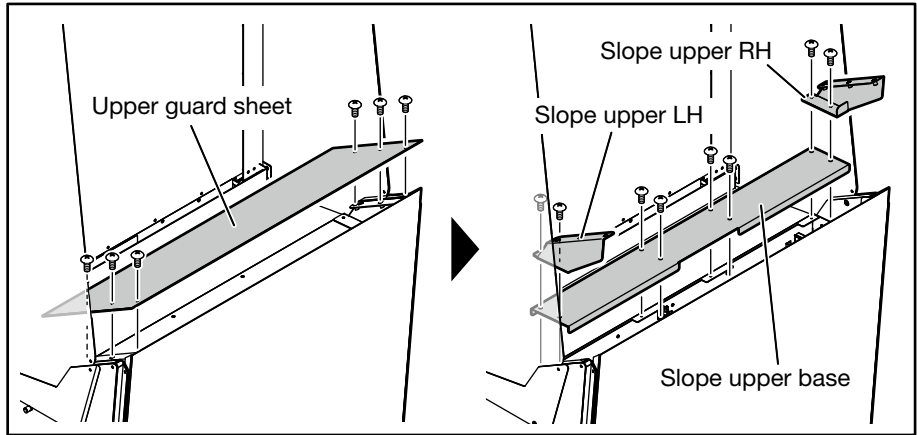


### [OPTICAL VR AMP PCB ASSY]

**[SAFETY UNIT-(TRN PCB)]**

- 1** ① Turn off the power switch and loosen the screws (6 ea.) and dismount the upper guard sheet.  
**[Torx screw (Black) : M4x8] (6 ea.)**  
 ② Loosen the screws (8 ea.) and dismount the slope upper LH/RH and slope upper base.  
**[Torx screw (Black) : M4x8] (8 ea.)**

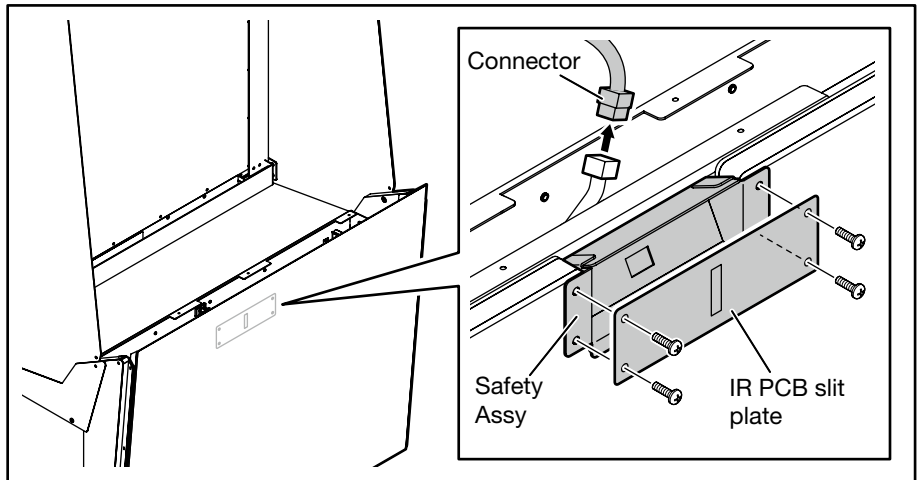
**Installation tool**  
 • Phillips screwdriver(No.2)



- 2** Remove screws (4 ea.) and connector (1 ea.) and dismount the IR PCB slit place and SAFETY Assy.  
**[Pan head screw (Black) : M4x30] (4 ea.)**

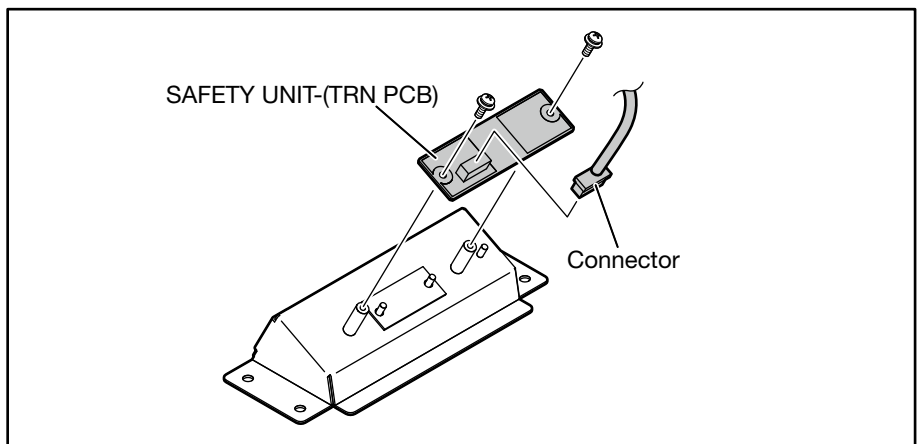
**Installation tool**  
 • Stubbed screwdriver (No.2)

**⚠ WARNING**  
 Be careful not to lose the IR PCB Slit Plate.



- 3** Remove screws (2 ea.) and connector (1 ea.) and replace the SAFETY UNIT-(TRN PC).  
**[Sems screw (W) : M3x8] (2 ea.)**

**Installation tool**  
 • Phillips screwdriver(No.2)



**[SAFETY UNIT-(TRN PCB)]**

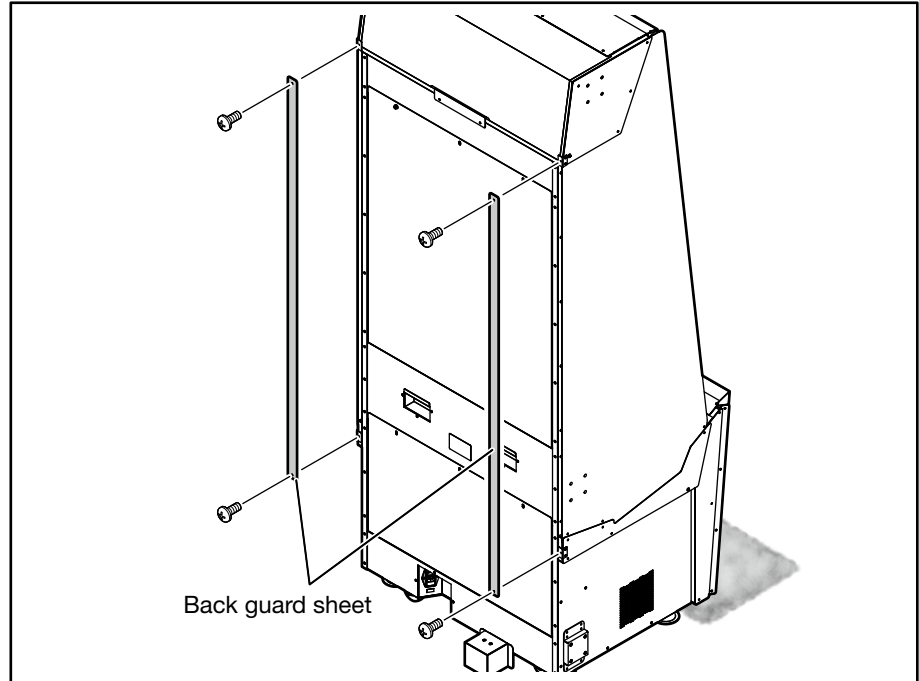
### [T SENSOR PCB ASSY / M SENSOR PCB ASSY]

**1** Turn off the power switch.  
Please check the **Safety bar installation manual** and remove it from reverse order.

**2** Loosen the screws (4 ea.) and dismount the back guard sheet (2 ea.).  
[Pan head screw (Black) : M4x8] (4 ea.)

#### Installation tool

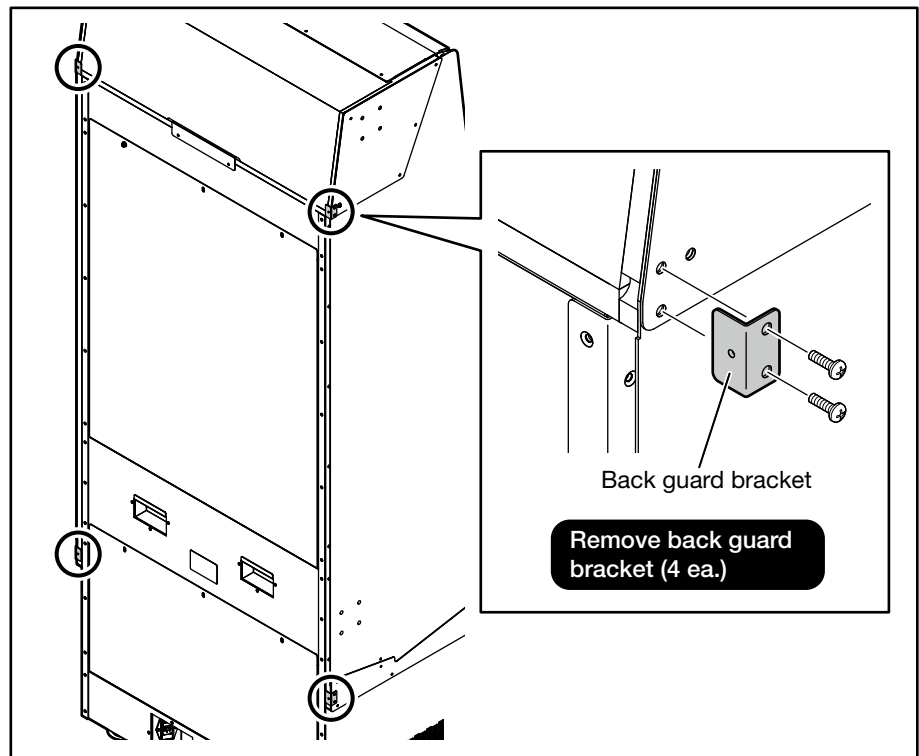
• Phillips screwdriver(No.2)



**3** Loosen the screws (4 ea.) and dismount the back guard bracket.  
[Pan head screw (Black) : M4x16] (4 ea.)

#### Installation tool

• Phillips screwdriver(No.2)



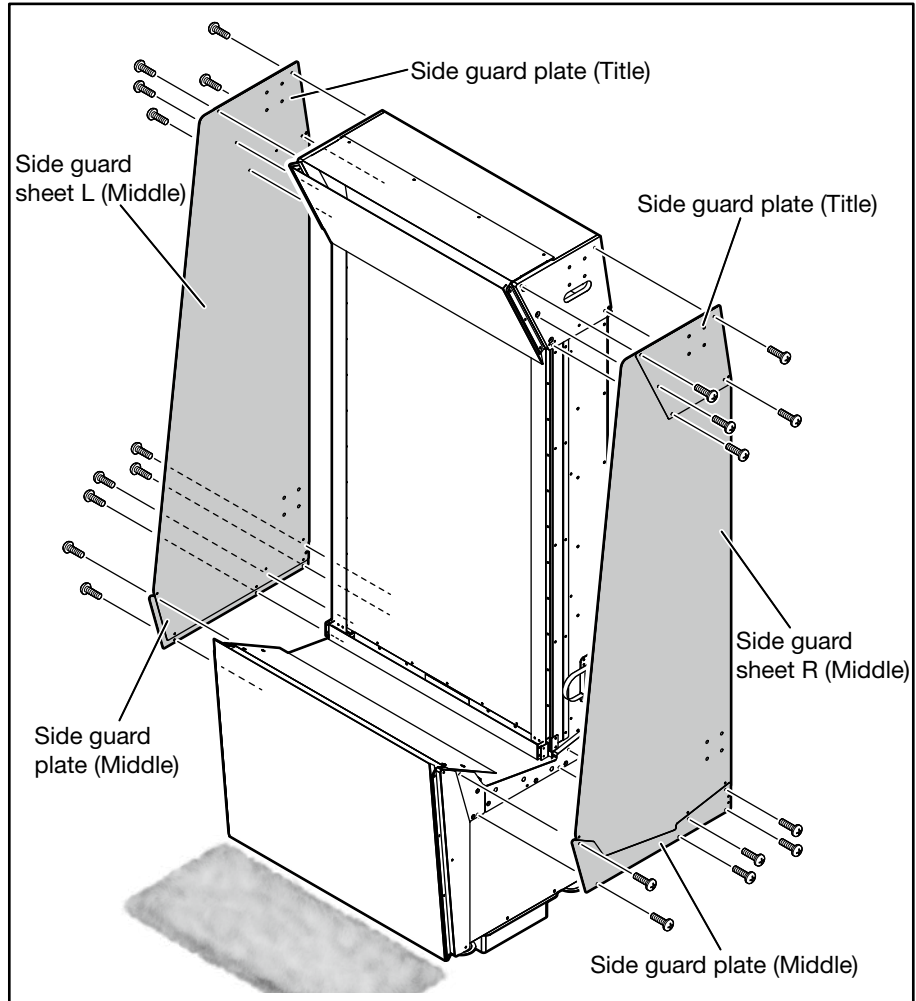
4

Loosen the screws (22 ea.) and dismount side guard plate (Title) (2 ea.), side guard sheet L/R (Middle), side guard plate (Middle) (2 ea.).

[Pan head screw (Black) : M4x16] (22 ea.)

**Installation tool**

- Phillips screwdriver(No.2)



5

Dismount the back door (Upper)

See P.74 [How to remove the back door (Upper)]

6

① Remove the connector (1 ea.)

② Loosen the bolts (3 ea.) and dismount the title box Assy.

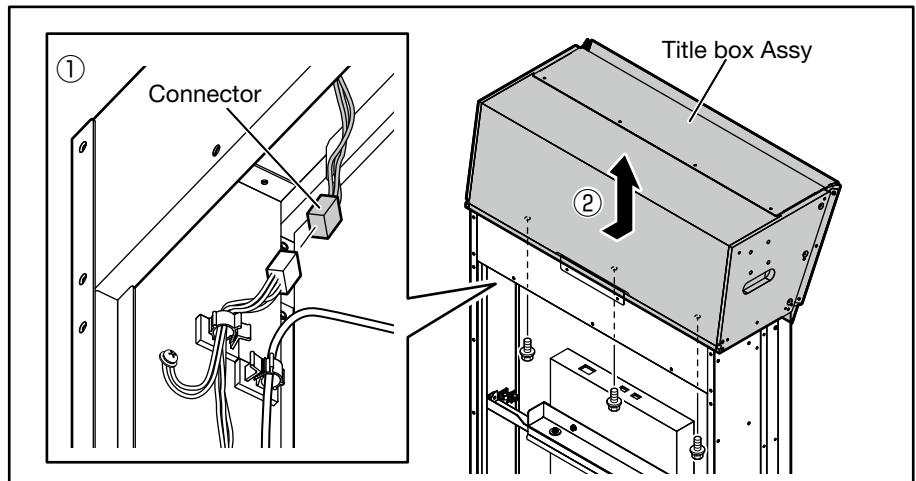
[Sems up set bolt (W) : M6x18] (3 ea.)

**Installation tool**

- Box driver  
10mm / 0.39 inch

**! WARNING**

Be sure to dismount title box Assy at least 2 persons and be cautious for falling.



## 4. Maintenance

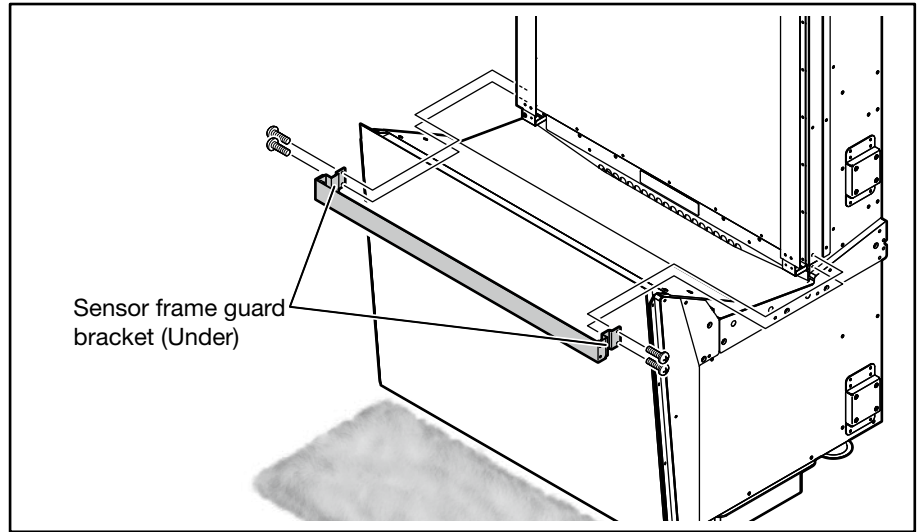
7

Loosen the screws (4 ea.) and dismount the sensor frame guard bracket (Under).

[Pan head screw (Black) : M4x8] (4 ea.)

### Installation tool

- Phillips screwdriver(No.2)



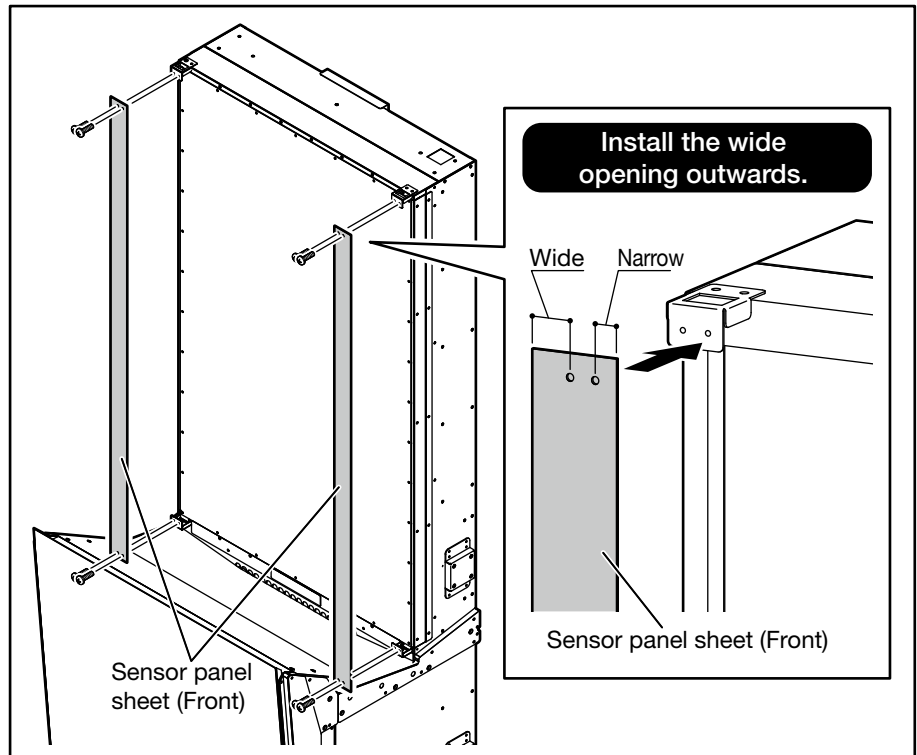
8

Loosen the screws (4 ea.) and dismount the sensor panel sheet (Front) (2 ea.)

[Pan head screw (Black) : M4x8] (4 ea.)

### Installation tool

- Phillips screwdriver(No.2)



9

Loosen the screws (2 ea.) and dismount the sensor frame guard bracket.

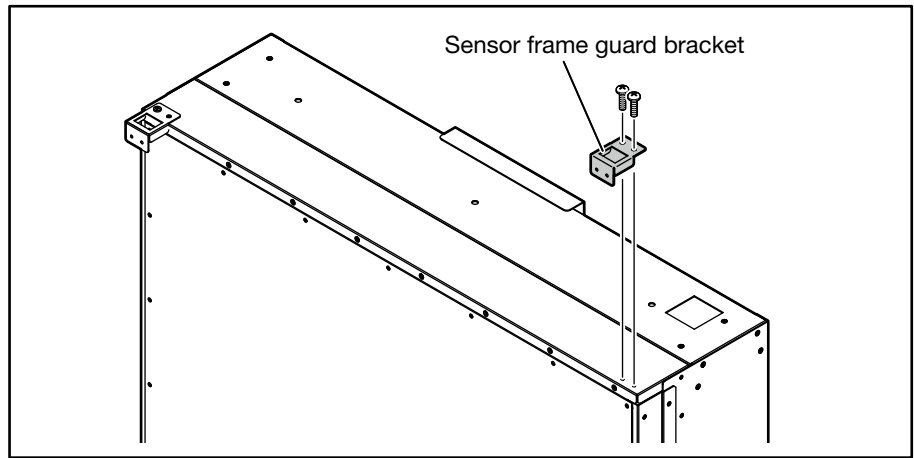
[Pan head screw (Black) : M4x8] (2 ea.)

Installation tool

- Phillips screwdriver(No.2)

**! WARNING**

Remove only one side of the sensor frame guard bracket.



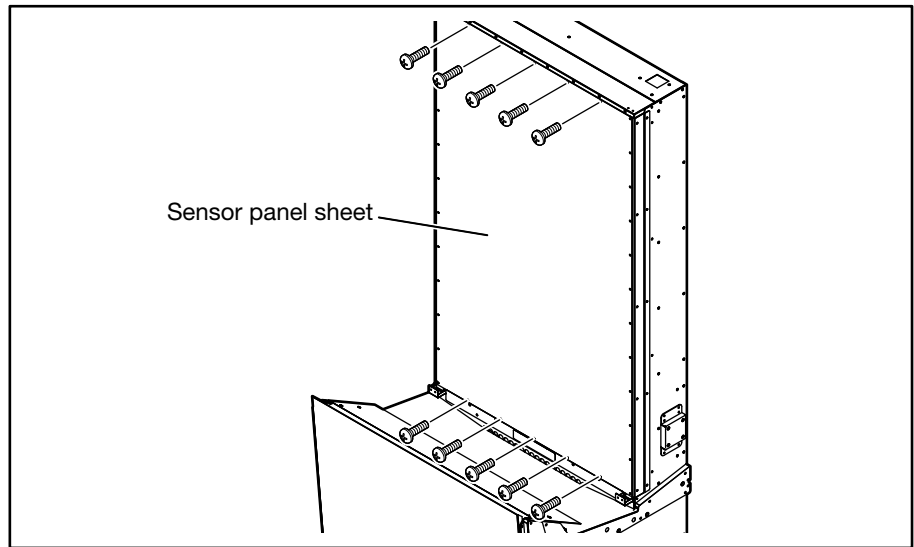
10

Loosen the screws (10 ea.) from the sensor panel sheet.

[Pan head screw (Black) : M4x8] (10 ea.)

Installation tool

- Phillips screwdriver(No.2)



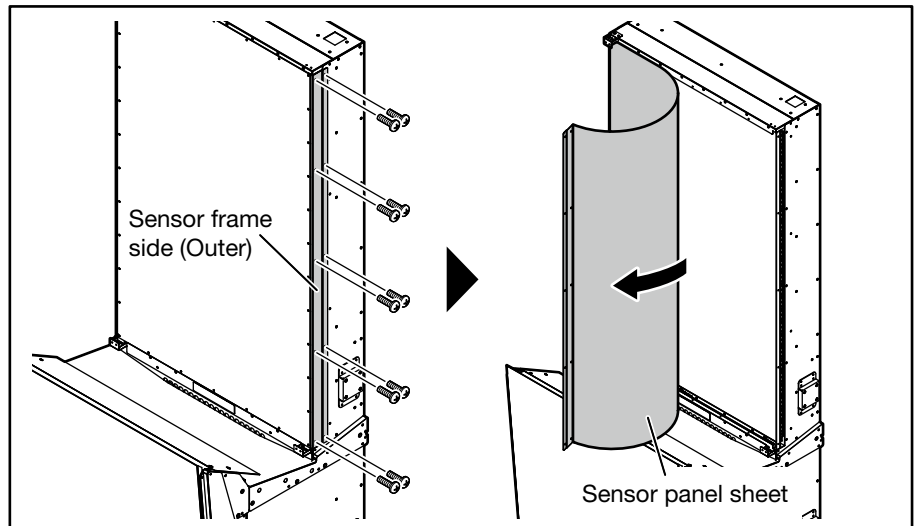
11

Loosen the screws (10 ea.) from the sensor frame side (Outer) and open the sensor panel sheet.

[Pan head screw (Black) : M4x8] (10 ea.)

Installation tool

- Phillips screwdriver(No.2)



## 4. Maintenance

- 12** Remove the screws (4 ea.) and the connector (1 ea.), replace the M SENSOR PCB Assy (4 ea.).

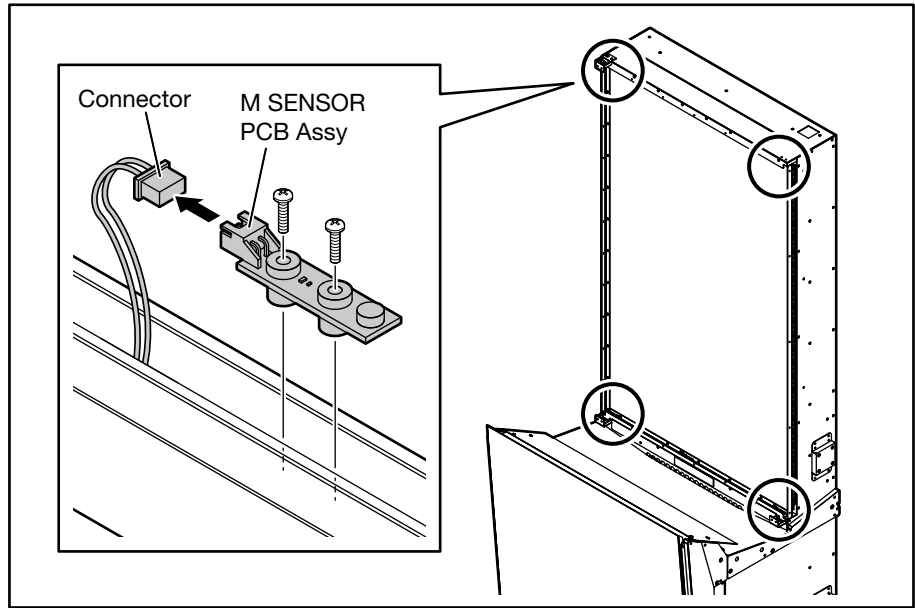
[Pan head screw (Black) : M3x14] (4 ea.)

### Installation tool

- Phillips screwdriver(No.2)

### **!** WARNING

Be careful of static electricity when exchanging M SENSOR PCB Assy.



[M SENSOR PCB ASSY]

- 13** Remove the screws (4 ea.) and the connector (1 ea.), replace the T SENSOR PCB Assy.

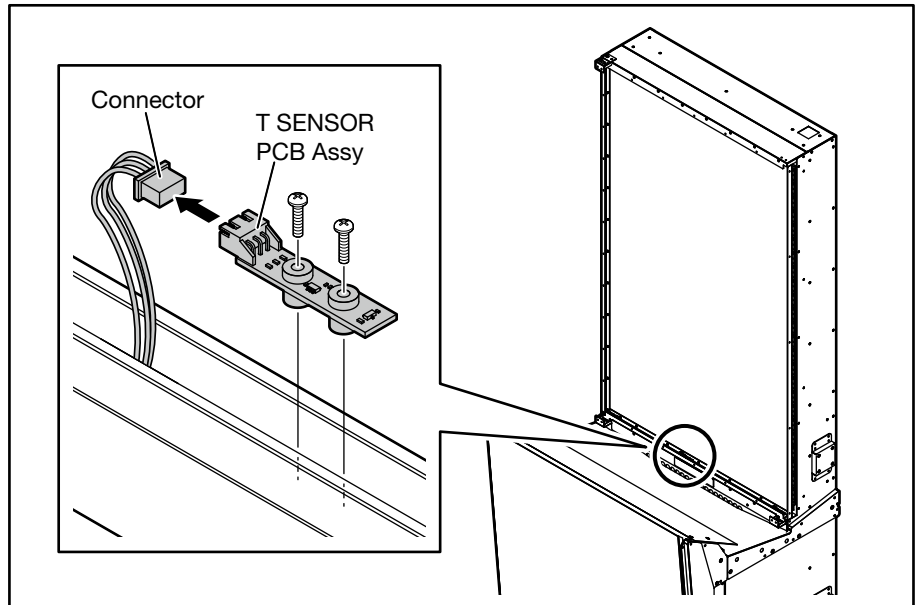
[Pan head screw (Black) : M3x14] (4 ea.)

### Installation tool

- Phillips screwdriver(No.2)

### **!** WARNING

Be careful of static electricity when exchanging T SENSOR PCB Assy.



[T SENSOR PCB ASSY]

### 4-3-3 Replacing the title LED

## ! WARNING

- Be sure to turn the power switch off before maintenance.
- Be sure to prepare a stable ladder, plate, etc. to install the title box Assy. Be careful since it is located in a high position.

1

See P.82~ 83 [T SENSOR PCB ASSY / M SENSOR PCB ASSY] Step 1 to 6.

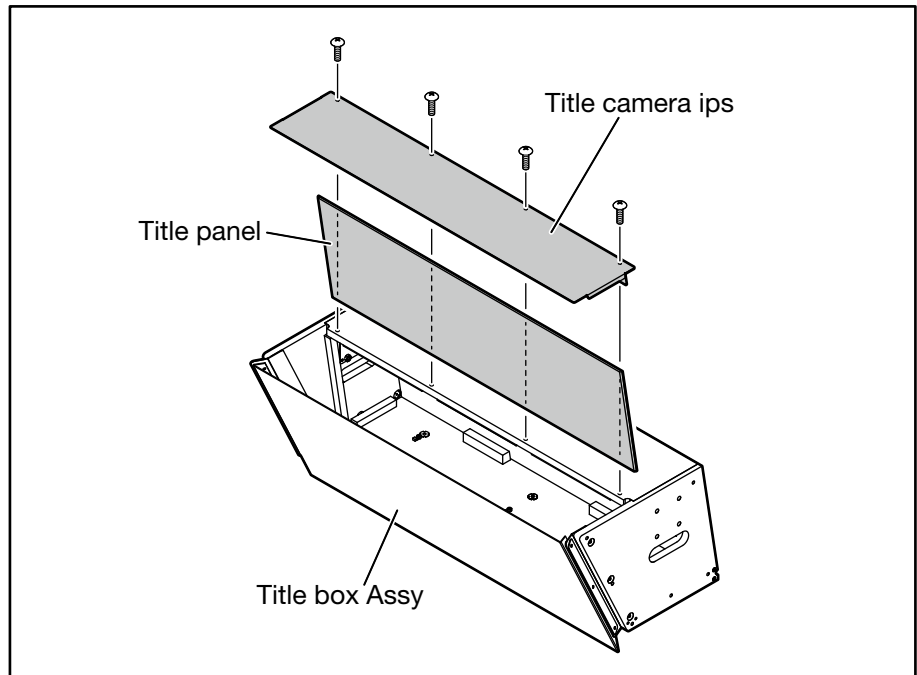
2

Loosen the screws (4 ea.) from the title box Assy and remove the title camera ips, title panel.

[Torx screw (Black) : M4x16] (4 ea.)

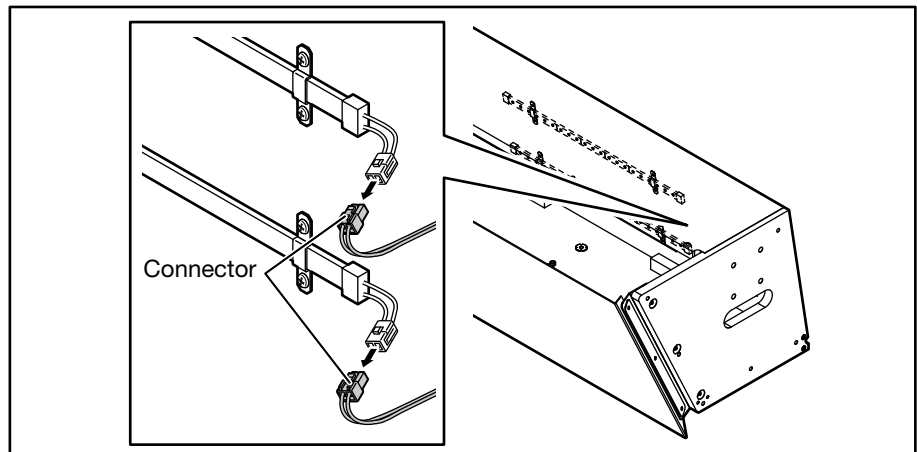
#### Installation tool

- Phillips screwdriver(No.2)



3

Remove the connectors (2 ea.)



## 4. Maintenance

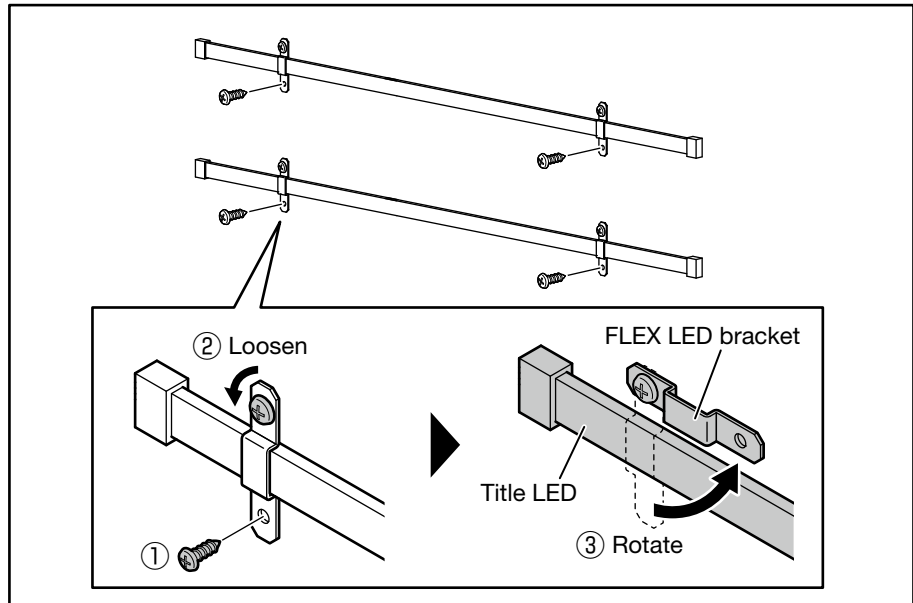
4

- ① Remove the lower screws (4 ea.)
- ② Loosen the upper screws (4 ea.)
- ③ Rotate the FLEX LED bracket, remove the title LED and replace it.

[Self-Tapping screw : M3x8] (4 ea.)

### Installation tool

- Phillips screwdriver(No.2)



[TAPE LED-(LED WHITE)(L=350)]

### 4-3-4 Replacing the front LED Assy

## ! WARNING

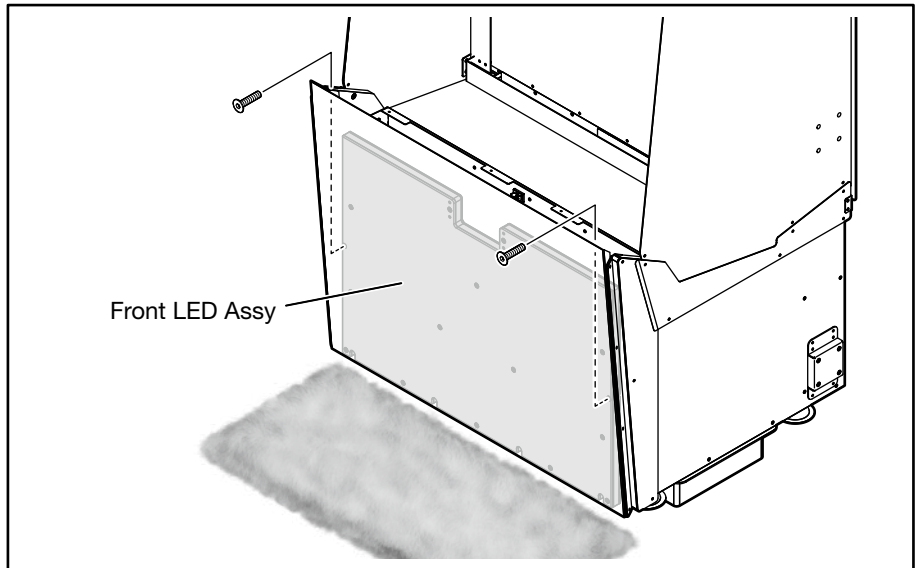
- Be sure to turn the power switch off before maintenance.

**1** See P.81 [SAFETY UNIT-(TRN PCB)] Step 1 to 2.

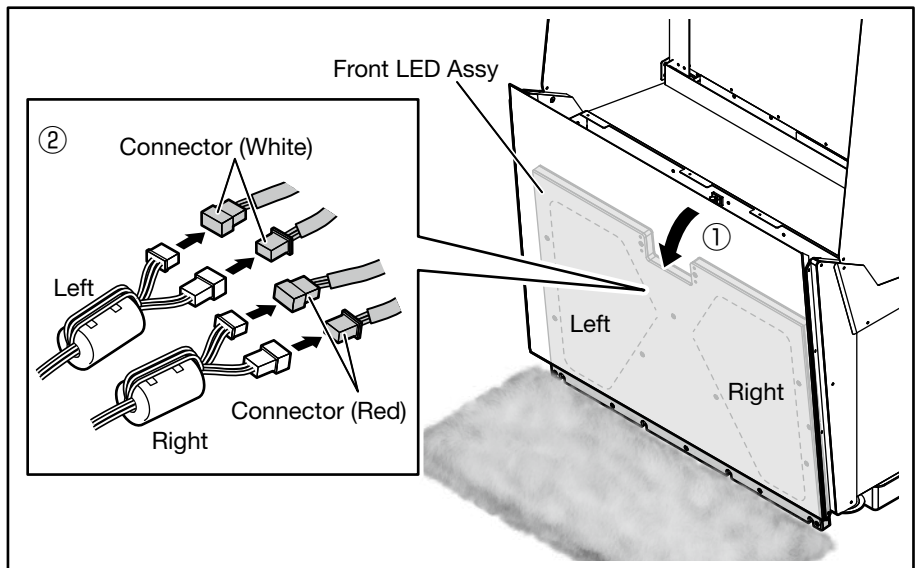
**2** Loosen bolts (2 ea.) from the front LED Assy.  
[Bolts (Black) : M4x25] (2 ea.)

#### Installation tool

- Allen wrench  
2mm / 0.07 inch



**3** ① Lower the front LED Assy down.  
② Remove the connectors (4 ea.) and remove the front LED Assy.



## ! WARNING

Be cautious of color when installing connectors.

# 4. Maintenance

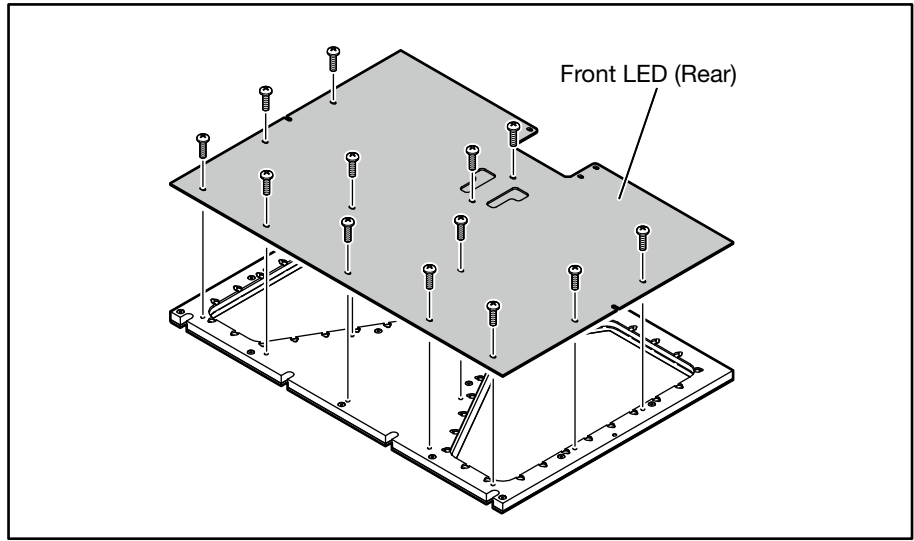
4

Loosen the screws (13 ea.) and remove the front LED (Rear).

[Pan head screw (Black) : M4x16] (13 ea.)

**Installation tool**

- Phillips screwdriver(No.2)



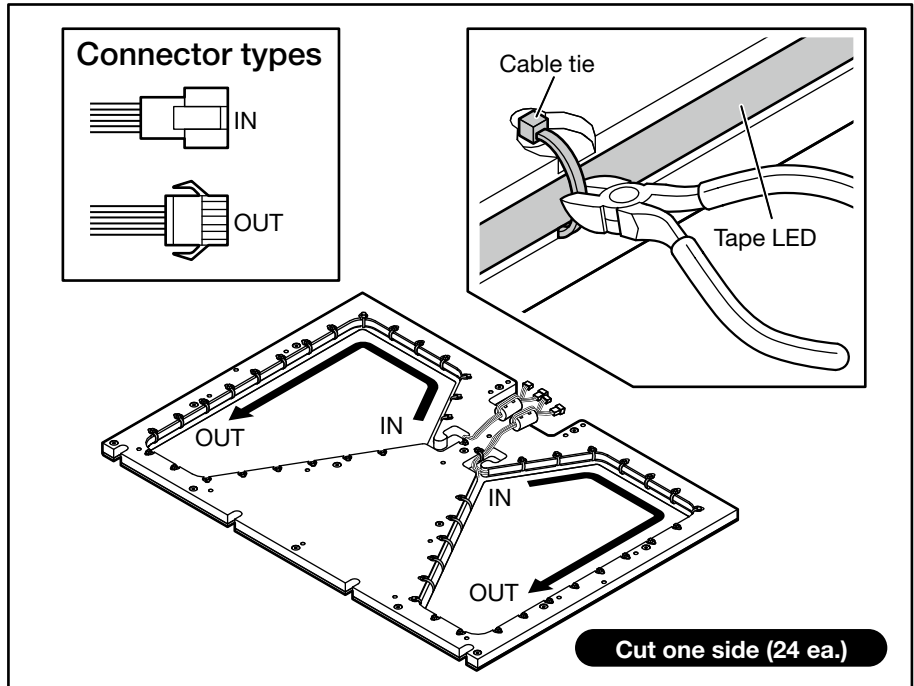
5

Cut off the cable ties (48 ea.) using nipper and remove the ferrite core and replace the tape LED.

※Install the ferrite core by following the removal sequence in reverse.

**Installation tool**

- Nipper



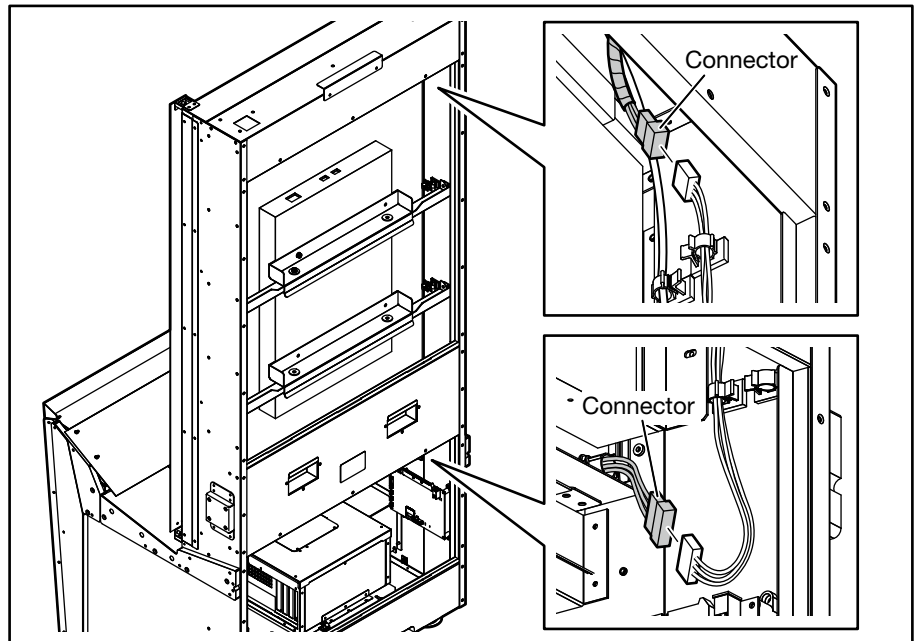
[TAPE LED-(LED FULL)(L=1200)-(CLEAR DOME)]  
 [CONVEX-(L=100)-(IVORY)]

### 4-3-5 Replacing the side monitor LED

## ! WARNING

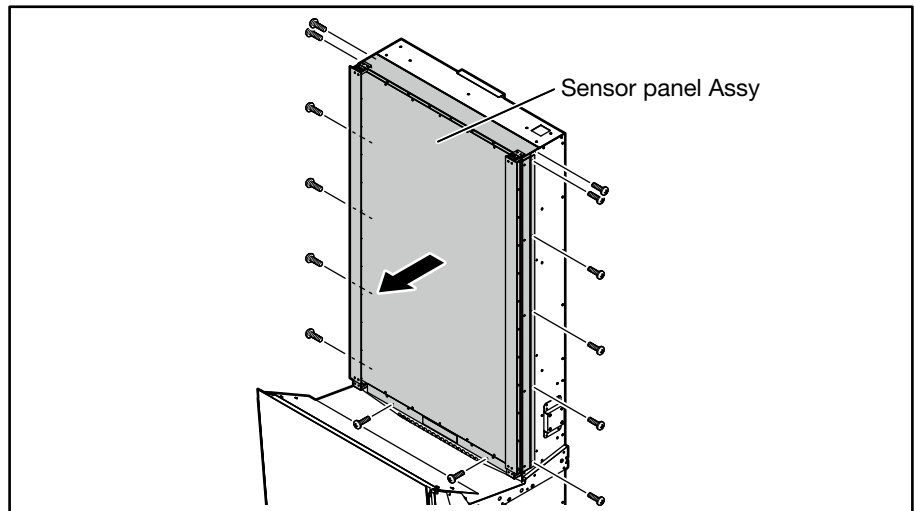
- Be sure to turn the power switch off before maintenance.
- Be sure to prepare a stable ladder, plate, etc. to install the title box Assy. Be careful since it is located in a high position.

- 1** See P.82 ~ 84 [T SENSOR PCB ASSY / M SENSOR PCB ASSY] Step 1 to 7.
- 2** Dismount the sensor frame guard bracket (Upper)  
[See P.74 How to remove the back door (Upper)]  
Remove the connectors (2 ea.)

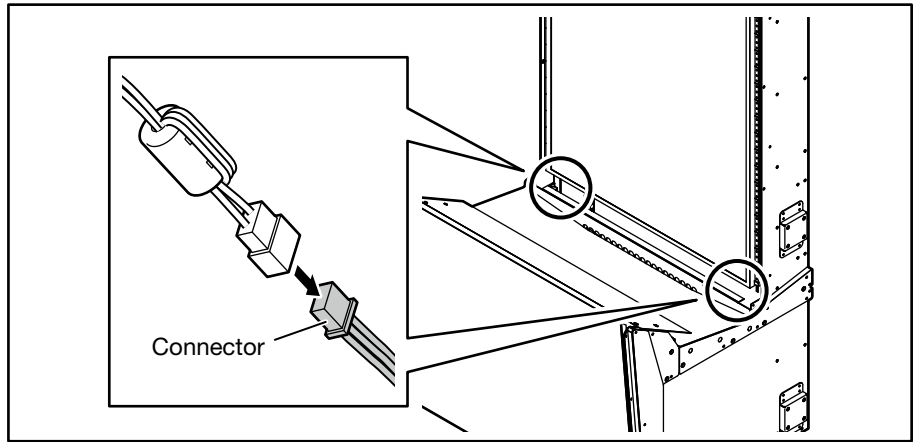


- 3** Loosen the screws (14 ea.) and dismount the sensor panel Assy.  
[Pan head screw (Black) : M4x8] (14 ea.)

**Installation tool**  
· Phillips screwdriver(No.2)

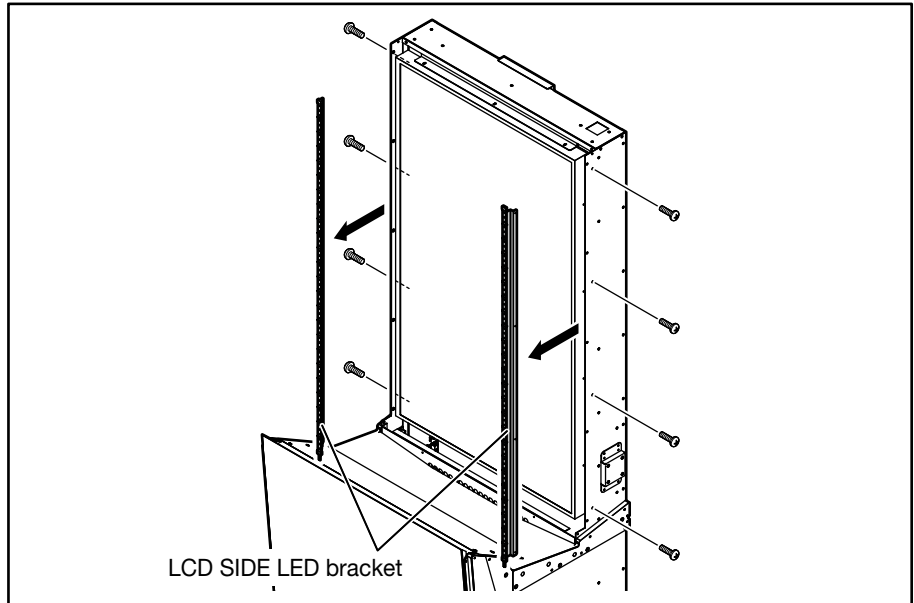


**4** Remove the connectors (2 ea.)



**5** Loosen the screws (8 ea.) and dismount the LCD SIDE LED bracket (2 ea.).  
**[Pan head screw (Black) : M4x8] (8 ea.)**

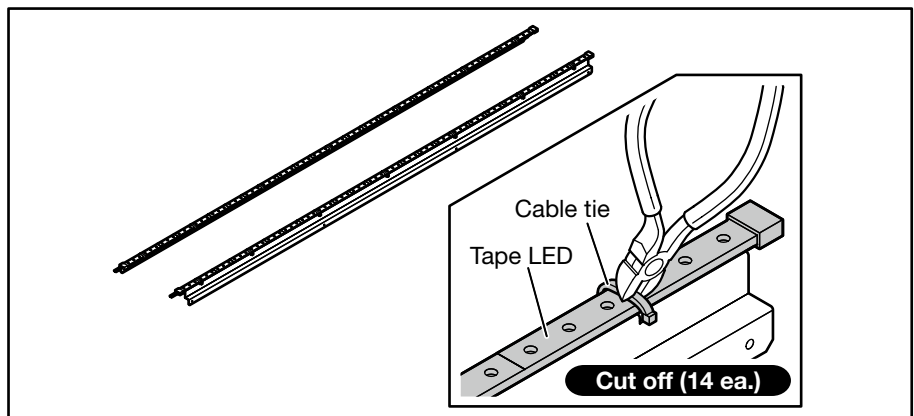
**Installation tool**  
 • Phillips screwdriver(No.2)



Chapter 4

**6** Cut off the cable ties (14 ea.) using nipper and remove the ferrite core and replace the tape LED.  
 ※ Install the ferrite core by following the removal sequence in reverse.

**Installation tool**  
 • Nipper



**[TAPE LED-(LED FULL)(L=1200)]**  
**[CONVEX-(L=100)-(IVORY)]**

### 4-3-6 Replacing the button

## ! WARNING

- Be sure to turn the power switch off before maintenance.

1

Turn off the power switch and loosen the bolts (8 ea.) to dismount the control panel Assy.

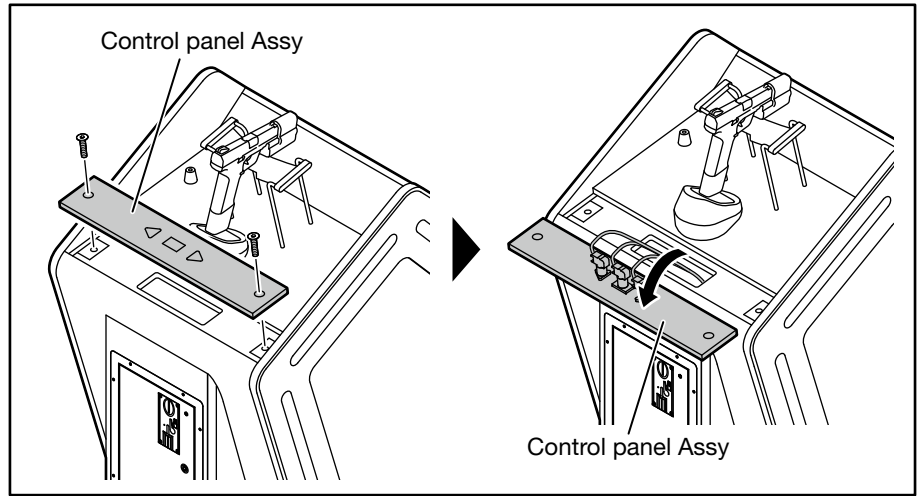
[Allen bolt (Silver) : M6x30] (2 ea.)

#### Installation tool

- Allen wrench  
4mm / 0.15 inch

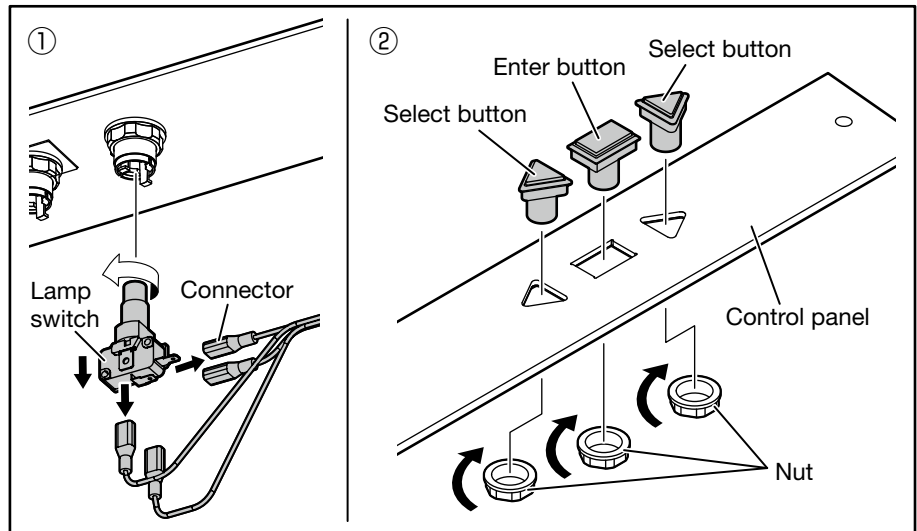
## ! WARNING

Pull out the control panel Assy carefully, be cautious with the connectors.



2

- ① Remove the lamp switches (3 ea.) by rotating 45 degrees counterclockwise.
- ② Loosen the nuts (3 ea.) and remove the control panel Assy.



Enter button : [LAMP SWITCH-(THIN TYPE) OBSA-45UK-R-1F-LED-W-12V]

Select button : [LAMP SWITCH-(THIN TYPE) OBSA-30US-B-1F-LED-W-12V]

### 4-3-7 Replacing the speaker

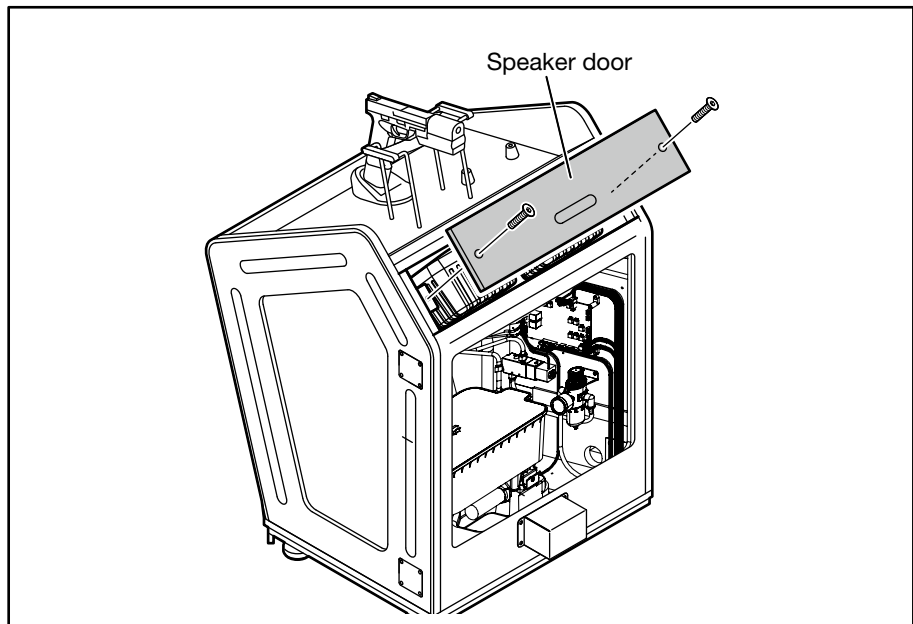
# ! WARNING

- Be sure to turn the power switch off before maintenance.

- 1** Turn off the power switch and dismount the shooting door.  
See P.75 [ How to remove the shooting door.]
- 2** Turn off the power switch and loosen the bolts (2 ea.) to dismount the control panel Assy.  
[Allen bolt (Silver) : M6x30] (2 ea.)

#### Installation tool

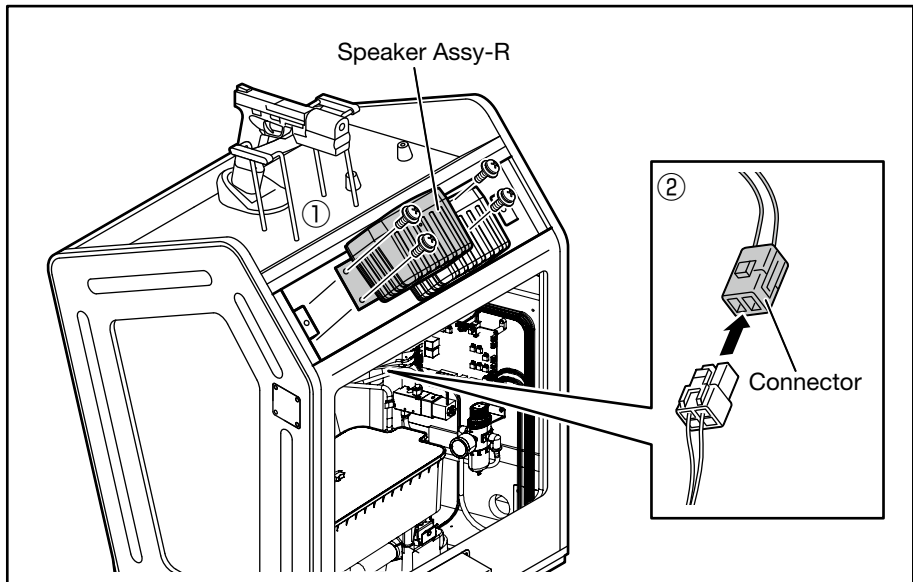
- Allen wrench  
4mm / 0.15 inch



- 3** ① Loosen the screws (4 ea.) and remove the speaker Assy-R.  
[Sems screw (W) : 4x16] (4 ea.)  
② Remove the connector (1 ea.)

#### Installation tool

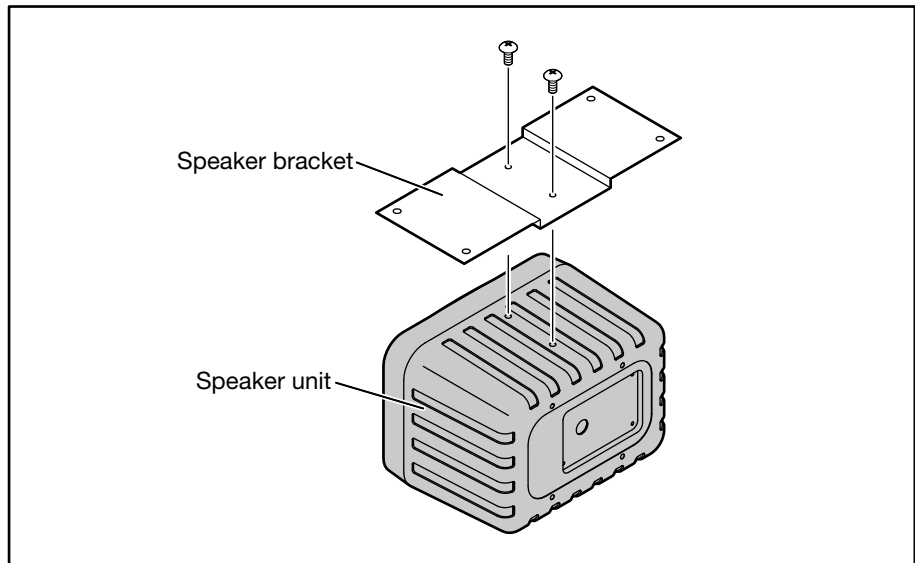
- Phillips screwdriver(No.2)



- 4** Loosen the screws (2 ea.) and remove the speaker bracket to replace the speaker unit.  
[Torx screw : M5x10] (2 ea.)

### Installation tool

- Phillips screwdriver(No.2)



### [SPEAKER UNIT]

- 5** Replace the Speaker Assy-L with the same order.

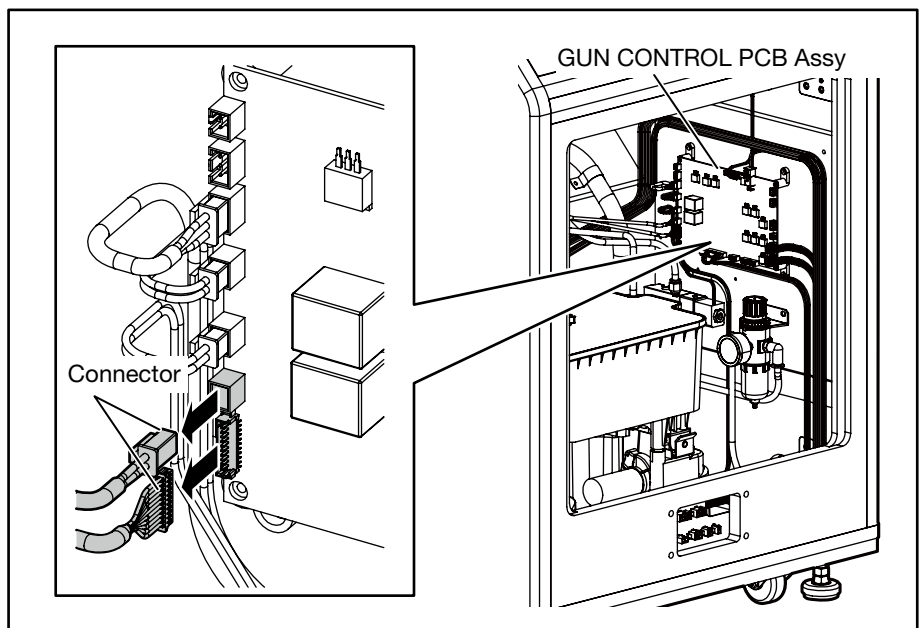
## 4-3-8 Removing the Gun device

### ⚠ WARNING

- Be sure to turn the power switch off before maintenance.

**1** Turn off the power switch and remove the service door of shooting cabinet Assy. See P.75 [ How to remove the shooting door.]

**2** Remove the connectors (2 ea.) from the GUN CONTROL PCB Assy.



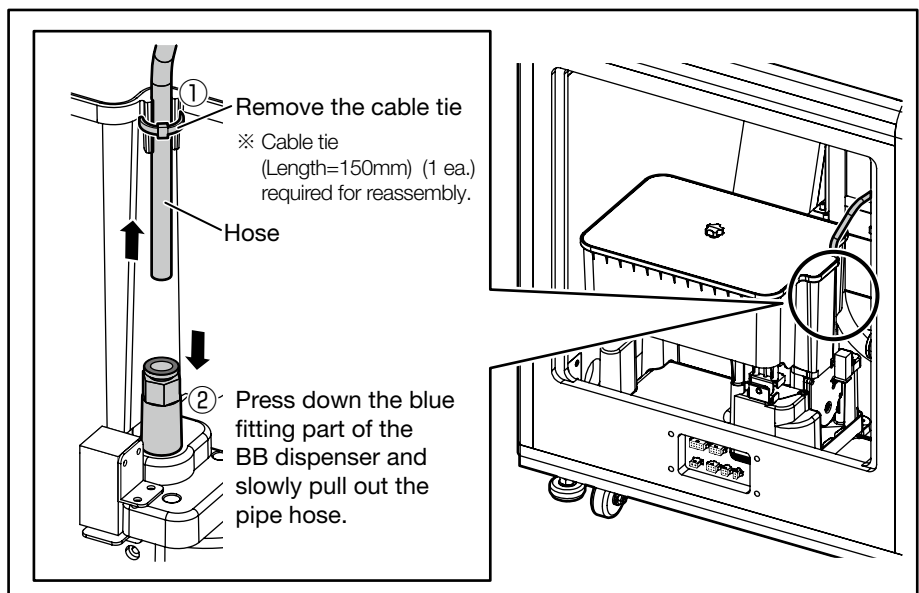
**3** ① Remove the cable tie (1 ea.) from the BB dispenser.  
 ② While pushing down the blue fitting part of the BB dispenser, remove the hose by pulling up. Remove the aluminum pipe and place the remaining BB bullet inside the hose into the BB dispenser.

#### Installation tool

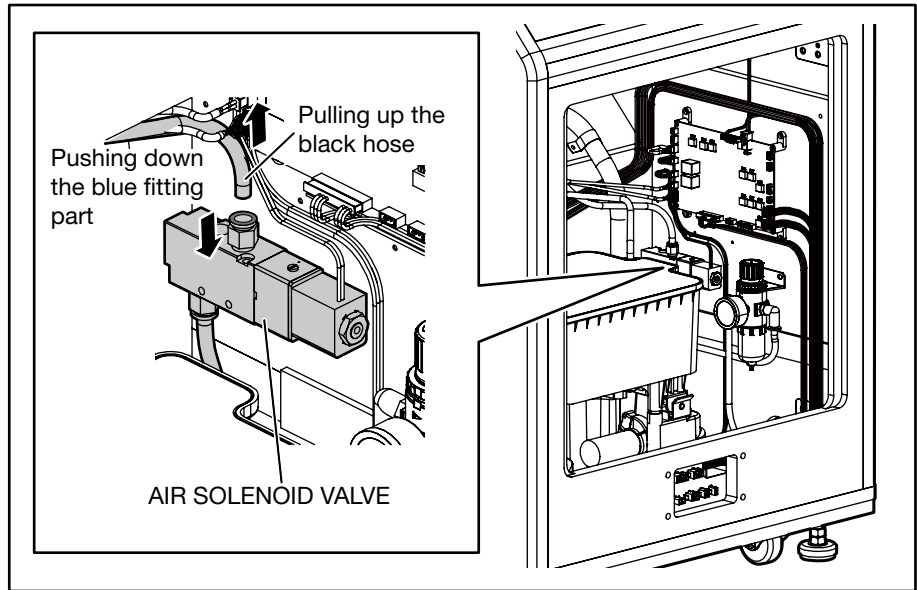
- Nipper

### ⚠ WARNING

Be careful not to drop the BBs into the cabinet.

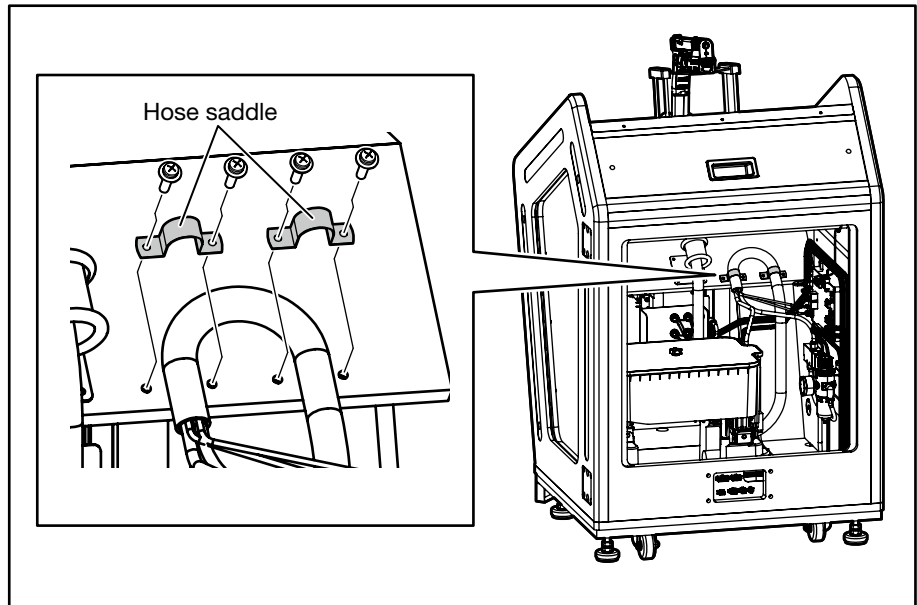


- 4** While pushing down the blue fitting part of the AIR SOLENOID VALVE, remove the black hose by pulling up.

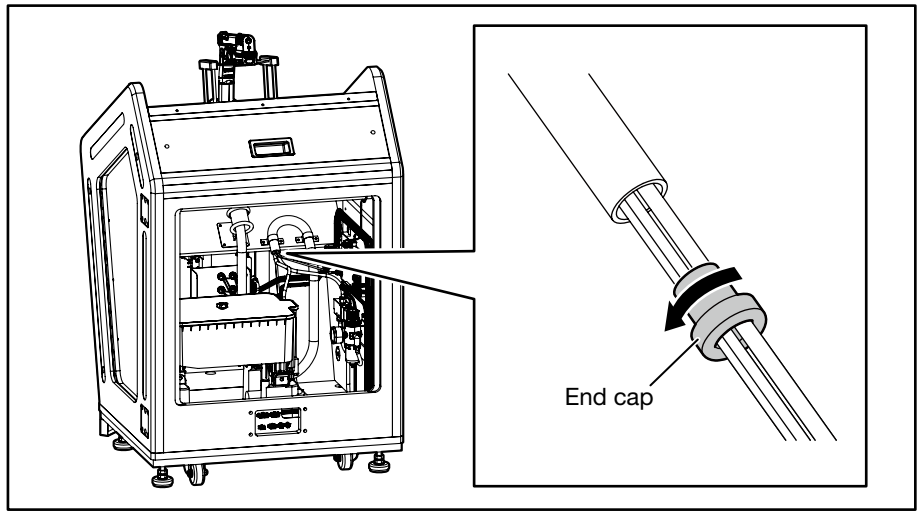


- 5** Loosen the screws (4 ea.) and remove the hose saddle (2 ea.)  
[Sems screw (W) : 4x16] (4 ea.)

**Installation tool**  
• Phillips screwdriver(No.2)

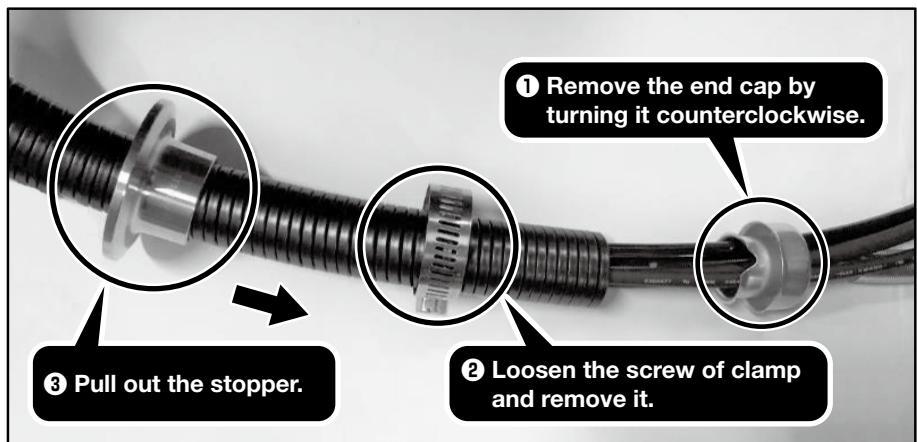
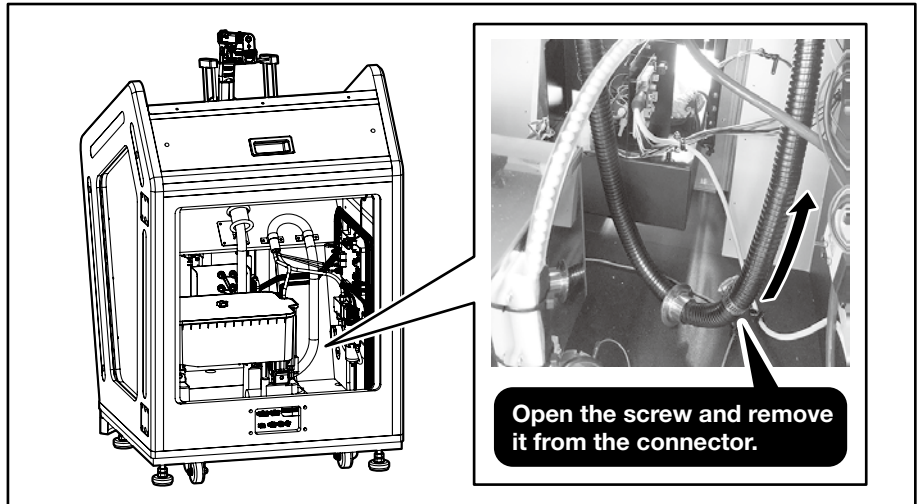


**6** Rotate the end cap to remove it.

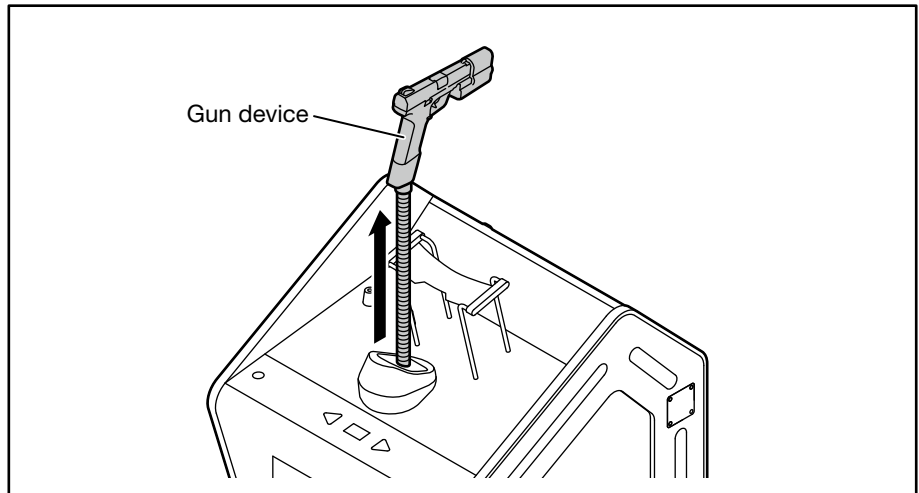


**7** Open the screw on the clamp and remove the clamp from the connector.

**Installation tool**  
• Phillips screwdriver(No.2)



**8** Replace the Gun device.

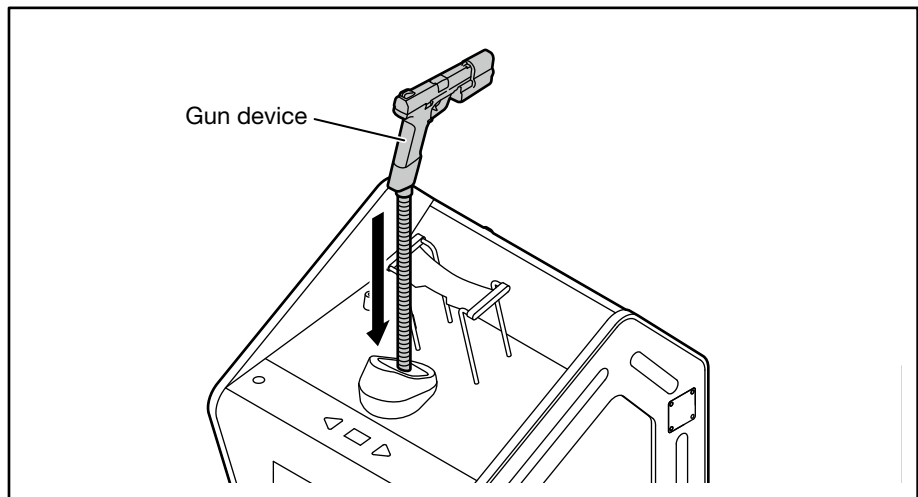


### 4-3-9 Installing the Gun device

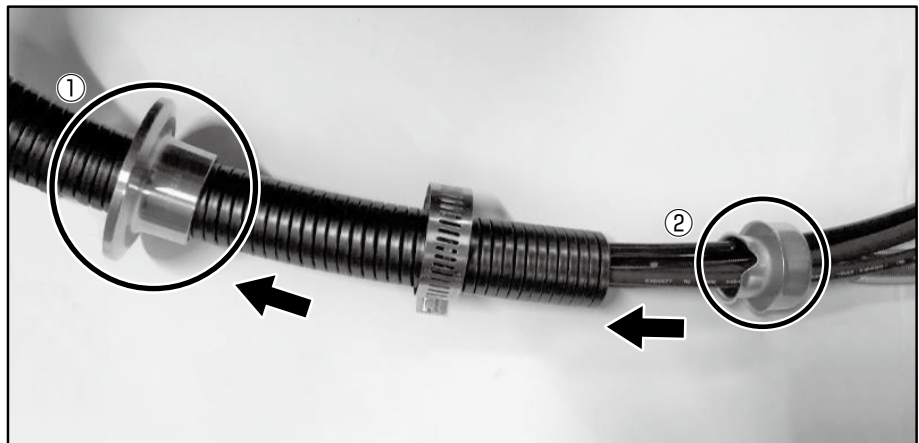
#### **WARNING**

- Be sure to turn the power switch off before maintenance.

- 1** Install the Gun device.



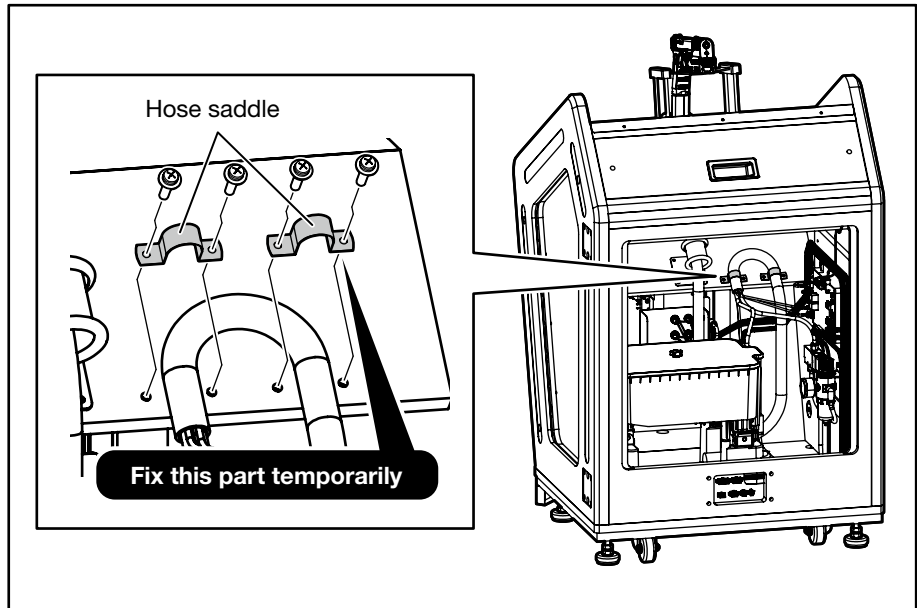
- 2** ① Put stopper, clamp, and end cap through the flexible hose in order.  
② Rotate the end cap clockwise to fix it to the flexible hose end.



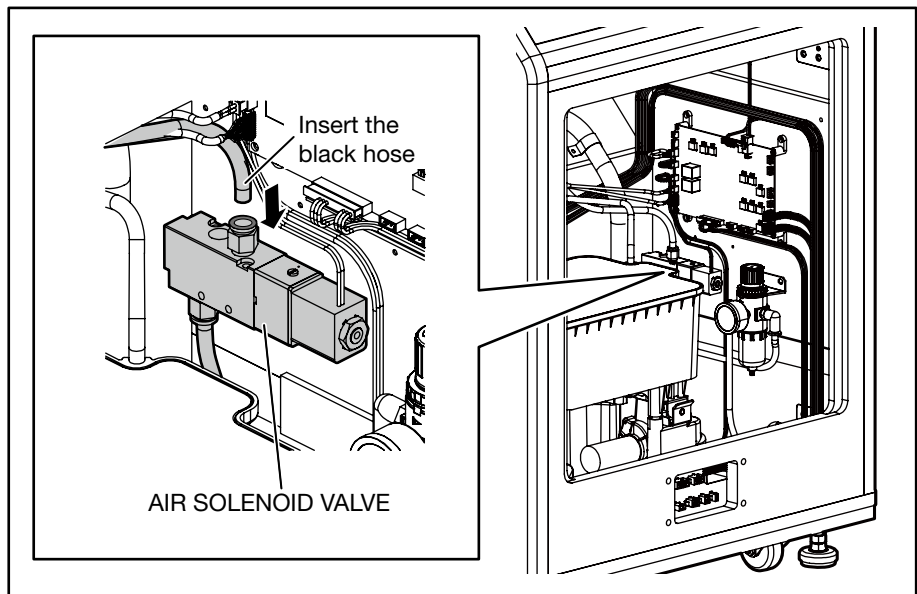
- 3** Fix the screws (4 ea.) and install the hose saddle (2 ea.)  
[Sems screw (W) : 4x16] (4 ea.)

**Installation tool**

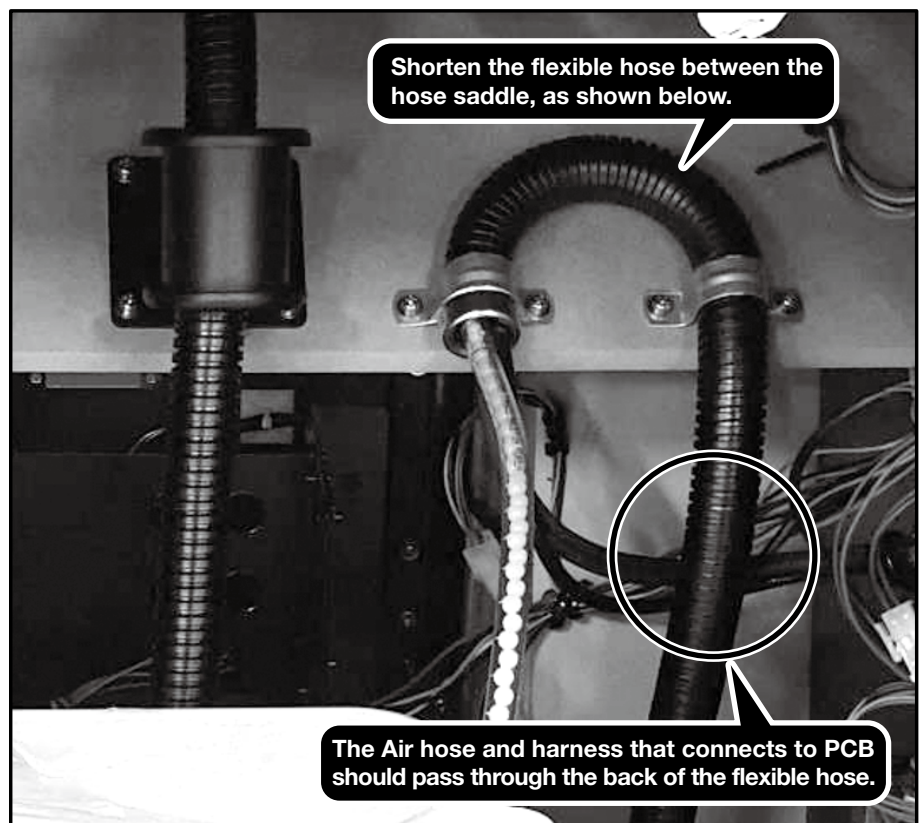
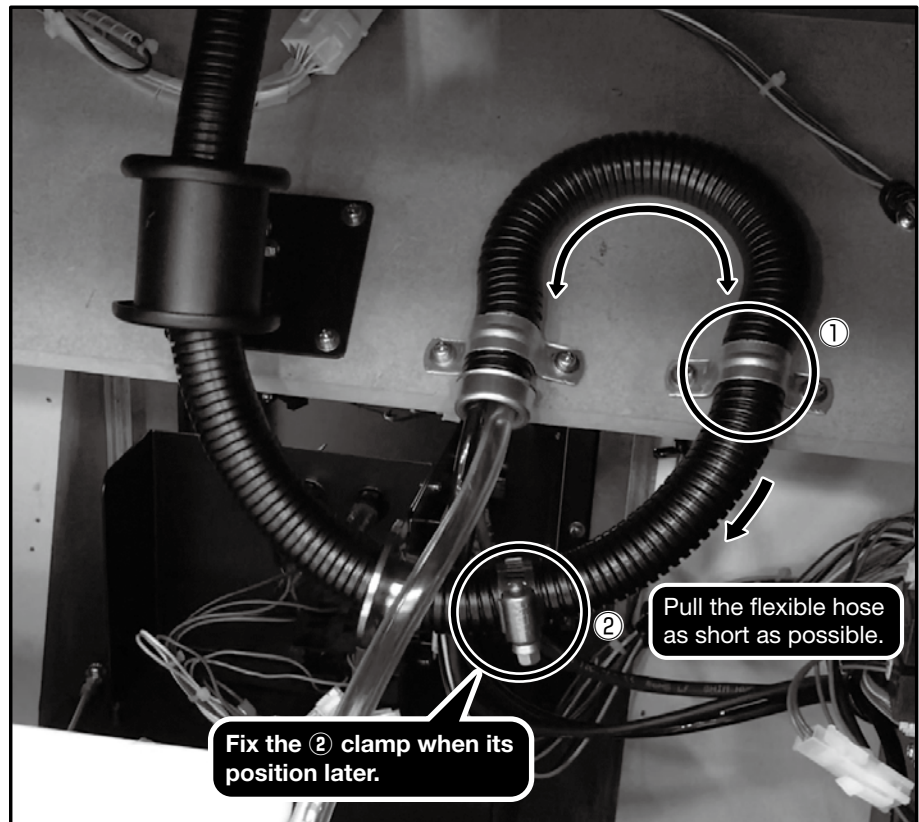
- Phillips screwdriver(No.2)



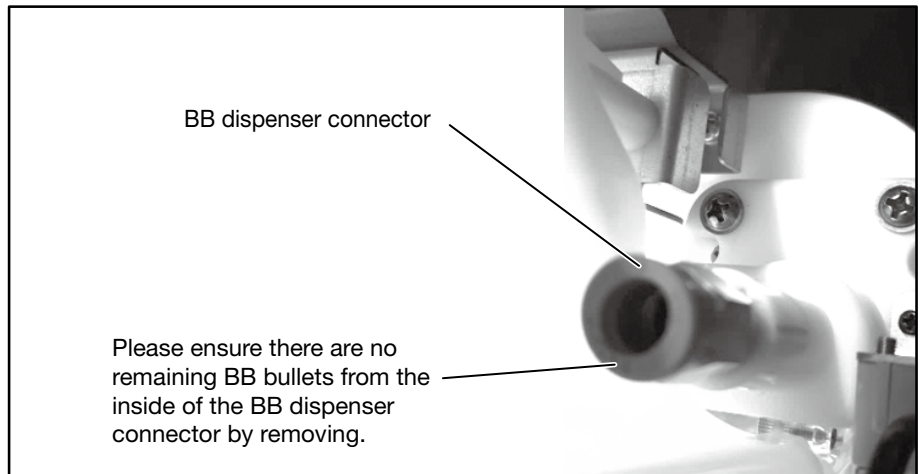
- 4** Insert the black hose into the blue fitting part of the AIR SOLENOID VALVE to the end and make sure that it does not pull out.



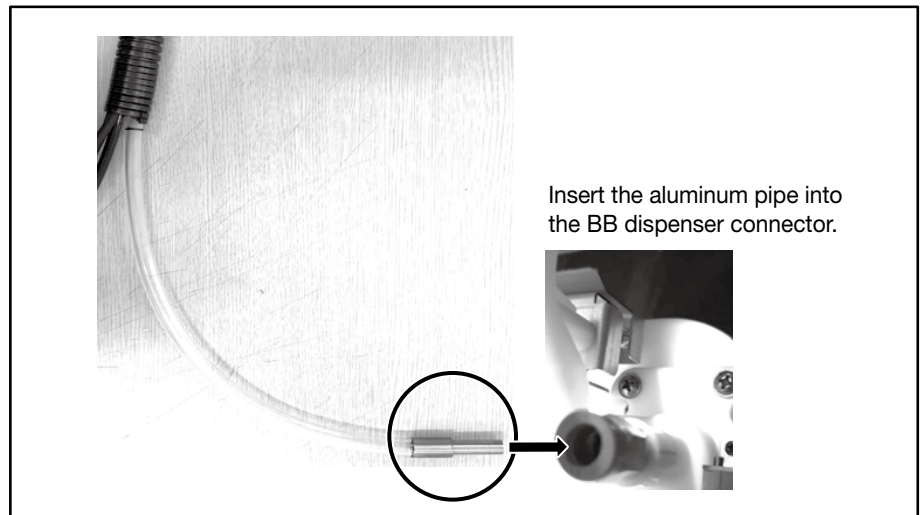
- 5** Hold the loose part of the flexible hose between the hose saddle.  
Fix the ① hose saddle after shortening the flexible hose.



6

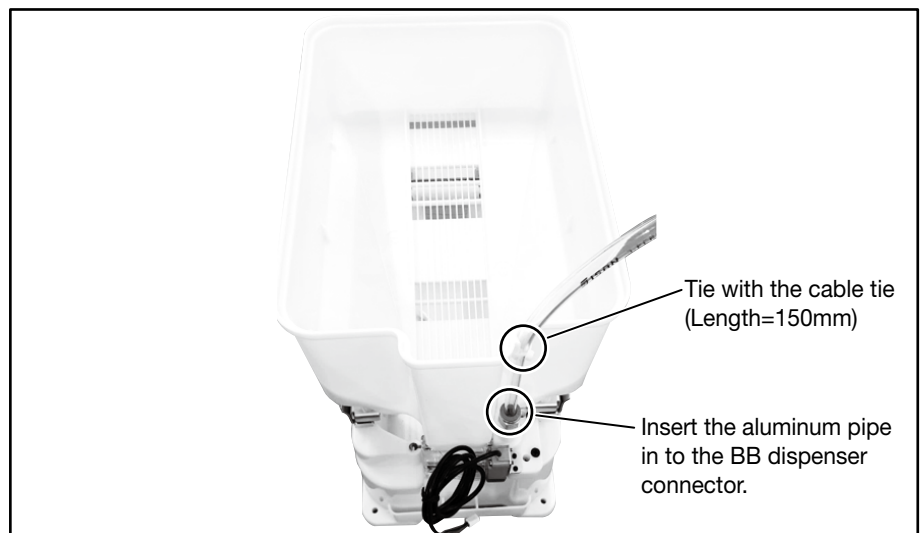


7



8

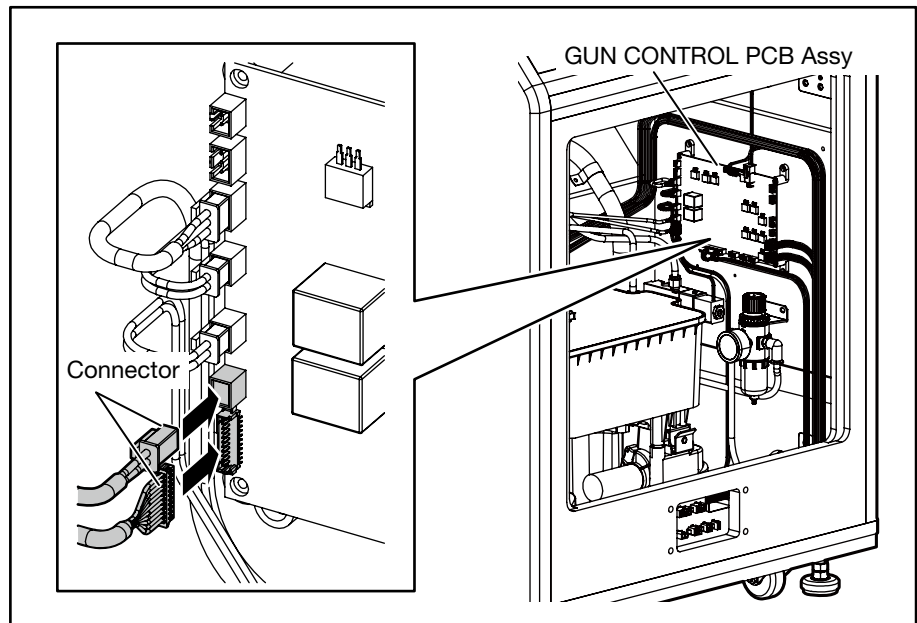
Insert the aluminum pipe into the BB dispenser connector and make sure that it does not pull out. After checking if it is connected firmly, bind, and fasten it with a cable tie.



## 4. Maintenance

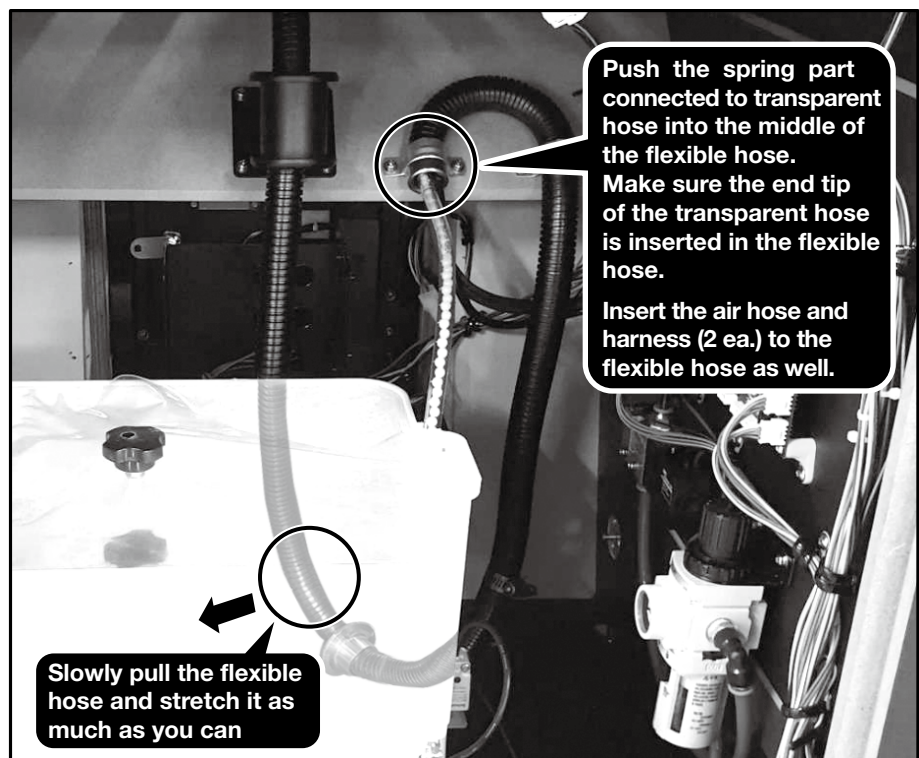
9

Install the connectors (2 ea.) from the GUN CONTROL PCB Assy.

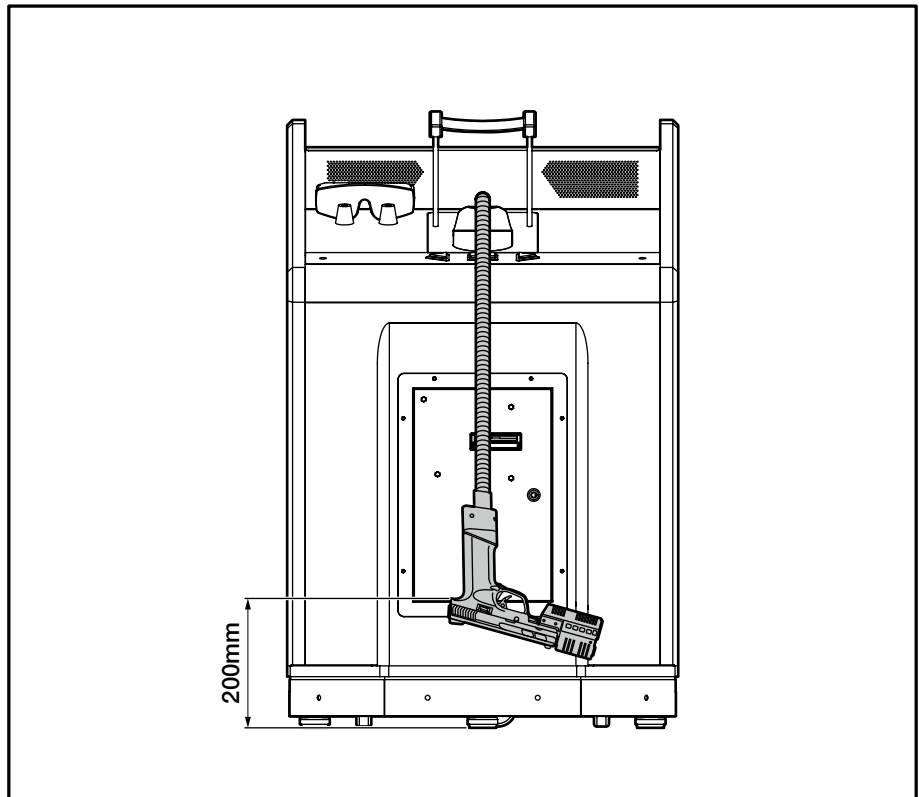


10

Push other hoses and harness and pull the flexible hose inside of the cabinet until it fully stretched.

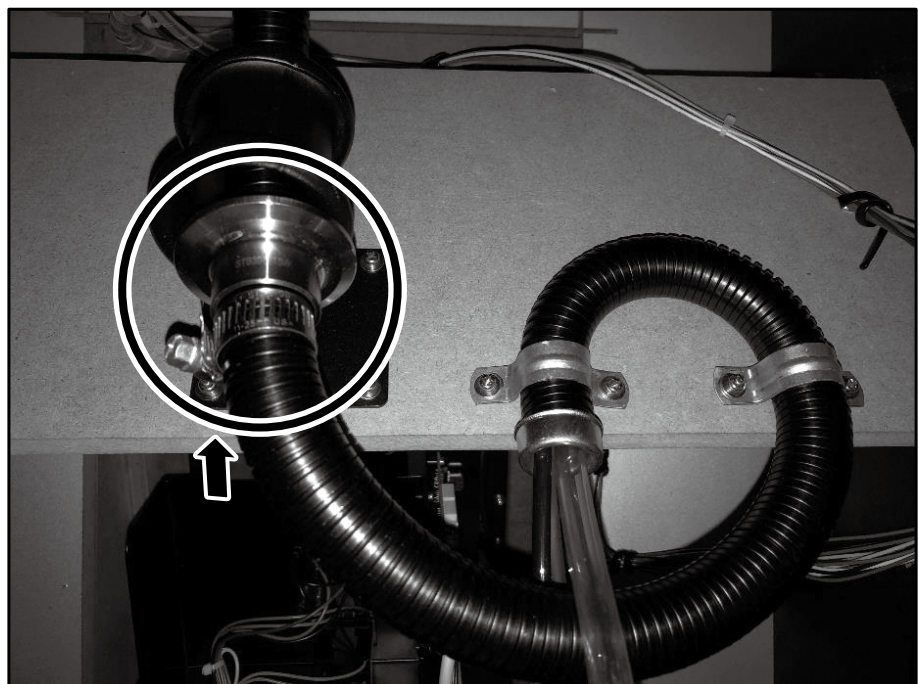


- 11** Pull out the Gun device and adjust the length.



※ As shown above, pull out the Gun device until the Gun Device is at the height of approximately 200 mm from the floor.

- 12** Push up the stopper and the clamp and fix it using the hose clamp screw, as shown below.



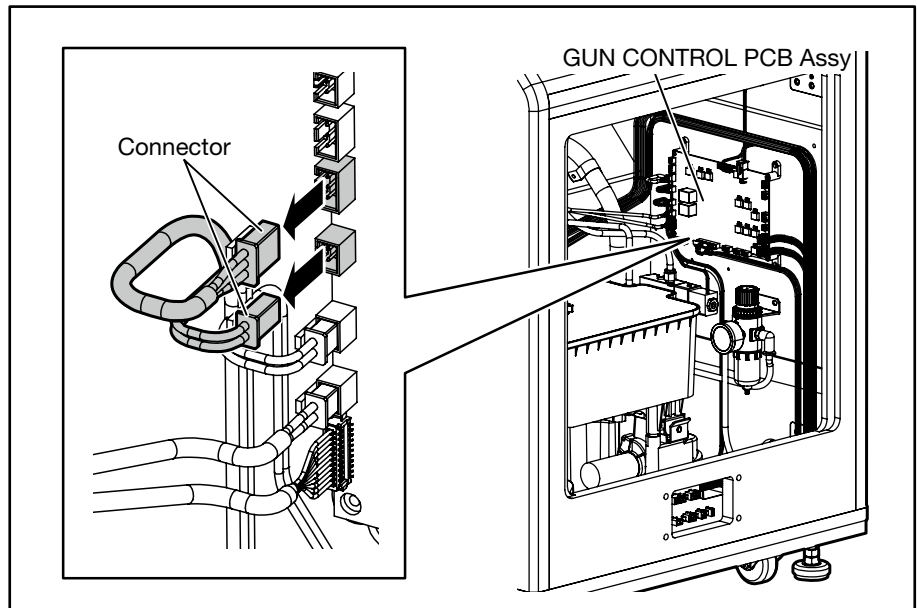
## 4-3-10 Replacing the BB dispenser

### **! WARNING**

- Be sure to turn the power switch off before maintenance.

**1** Turn off the power switch and remove the service door of shooting cabinet Assy.  
See P.75 [ How to remove the shooting door.]

**2** Remove the connectors (2 ea.) from the GUN CONTROL PCB Assy.



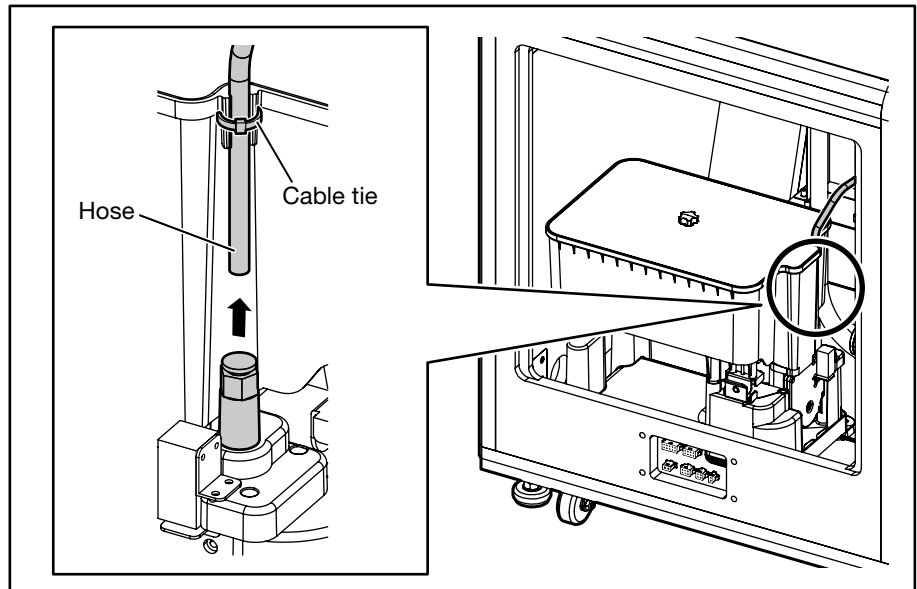
**3** ① Remove the cable tie (1 ea.) from the BB dispenser.  
② Remove the hose (1 ea.) upward by pushing down the blue nozzle from the BB dispenser.

#### Installation tool

- Nipper

### **! WARNING**

Be careful not to drop the BBs into the cabinet.



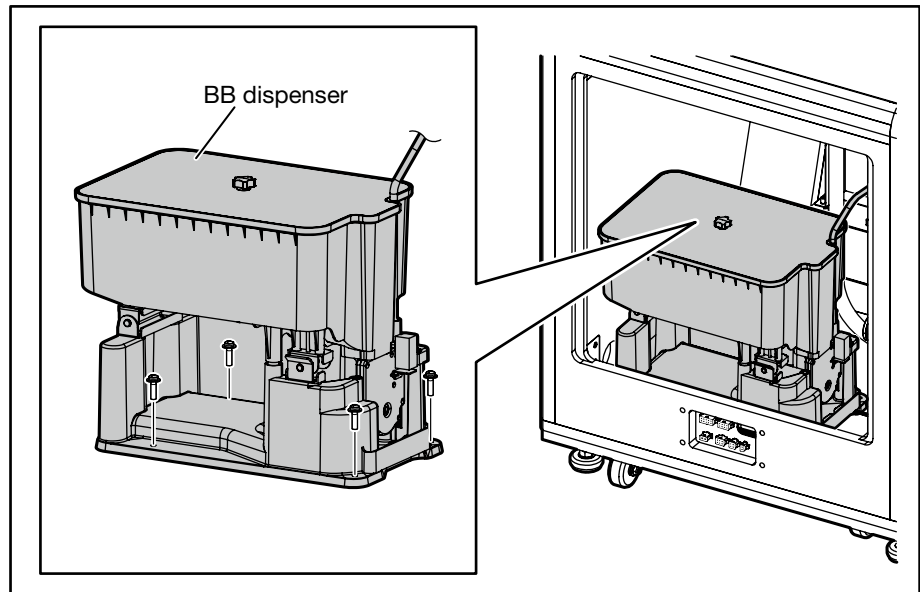
※ Be sure to use a new cable tie when assembling in reverse order.

4

Loosen the screws (4 ea.) and replace the BB dispenser.  
[Sems screw (W) : 4x35] (4 ea.)

### Installation tool

- Phillips screwdriver(No.2)



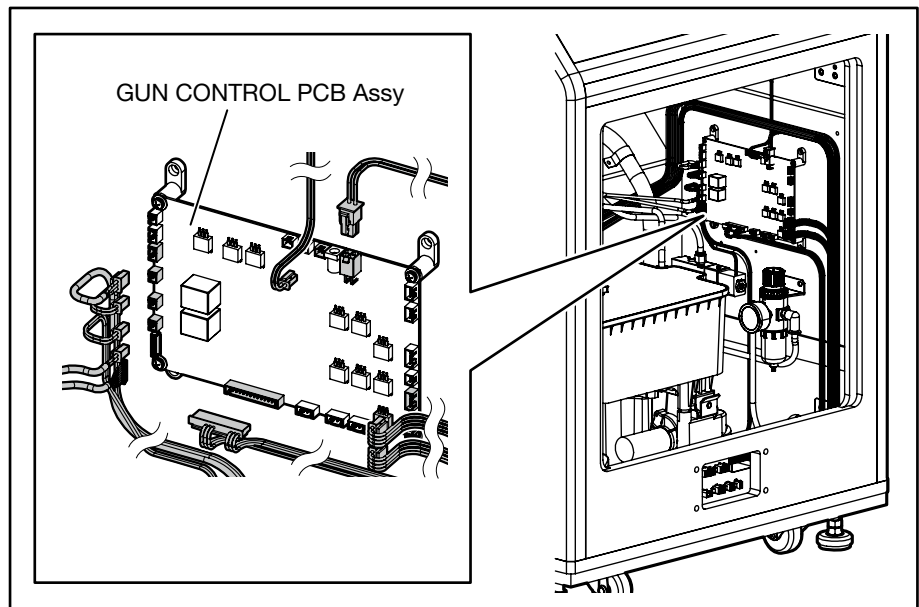
### 4-3-11 Replacing the GUN CONTROL PCB Assy

# ! WARNING

- Be sure to turn the power switch off before maintenance.

**1** Turn off the power switch and remove the service door of shooting cabinet Assy.  
See P.75 [ How to remove the shooting door.]

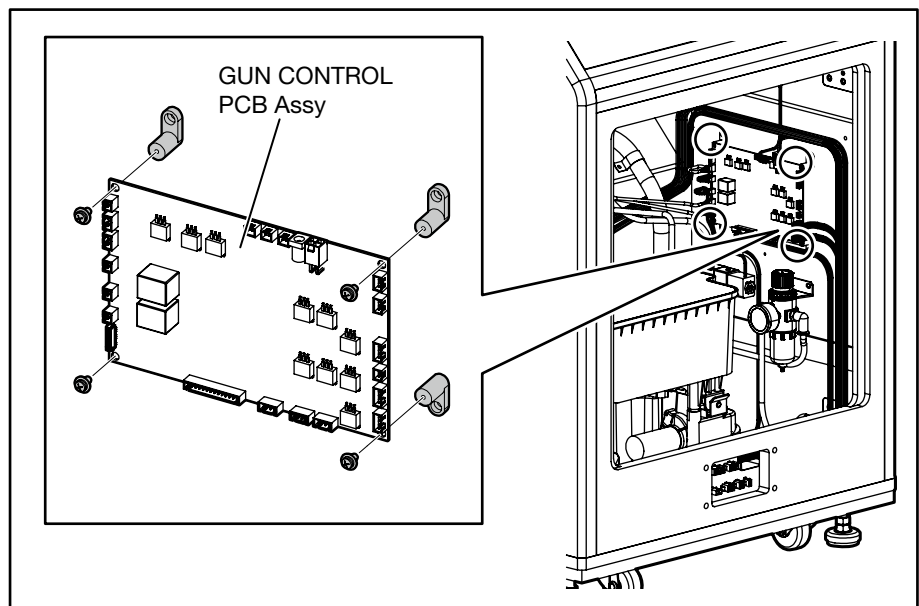
**2** Remove the connectors (10 ea.) from the GUN CONTROL PCB Assy.



**3** Loosen the screws (4 ea.) and replace the GUN CONTROL PCB Assy.  
[Sems screw (W) : 3x8] (4 ea.)

#### Installation tool

- Phillips screwdriver(No.2)

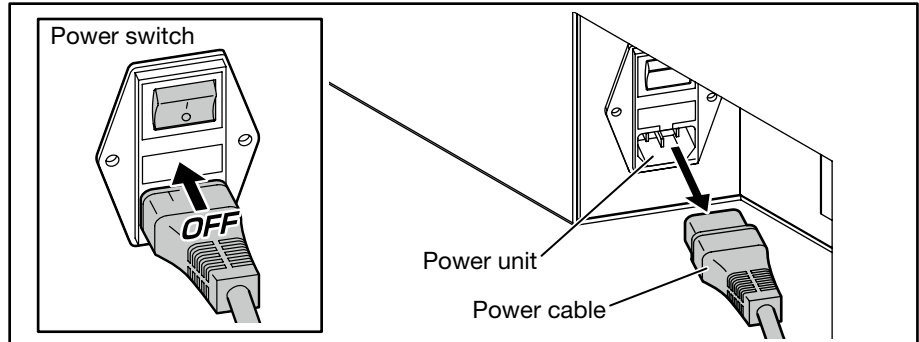


4-4. Replacing the fuse

**! WARNING**

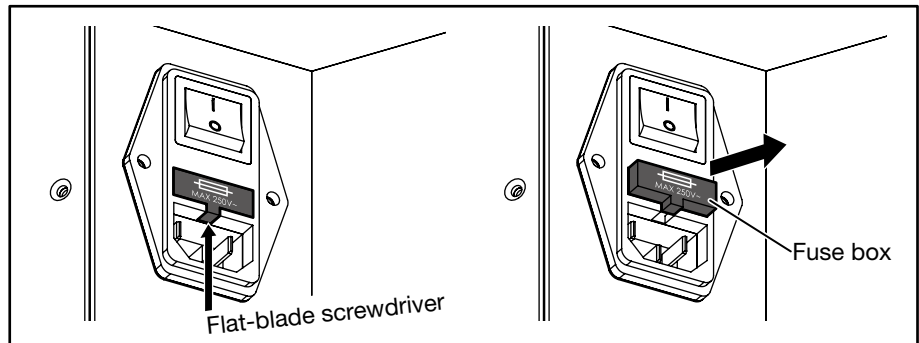
- Be sure to turn the power switch off and remove the power cable from the machine.
- Use of fuse that are not designed for the specified type can result in a machine malfunction.

**1** Turn off the power switch and remove the power cord.

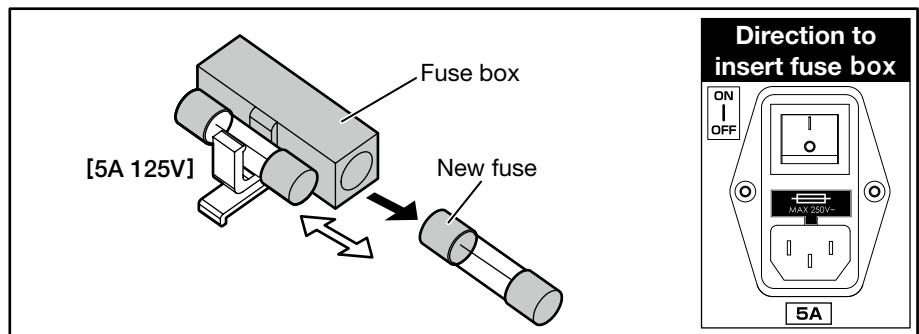


**2** Pull the fuse box forward using a flat-bladed screwdriver.

**Installation tool**  
 • Flat-blade screwdriver



**3** ① Remove the blown fuse.  
 ② Replace a new fuse and return the storage box to its original position.



[FUSE--(5A 125V)--(5.0X20)]

**4** Return the fuse box to the power unit.

# 5. Error message

## ■ 5-1. Error message

Error	Possible cause	Treatment
<b>Backup error (A001)</b>	<ul style="list-style-type: none"><li>· Failed to retrieve setup file</li><li>· Over capacity of HDD</li></ul>	<ul style="list-style-type: none"><li>· Initiate factory reset and power on.</li><li>· Contact your local distributor.</li></ul>
<b>Input and output device error (A100)</b>	<ul style="list-style-type: none"><li>· Error from the BULLET IO</li></ul>	<ul style="list-style-type: none"><li>· Check all connections and power on.</li><li>· If the error is not resolved, replace the bullet IO board.</li></ul>
<b>Coin error (A103)</b>	<ul style="list-style-type: none"><li>· The coin is blocked.</li><li>· The coin mech is defective.</li></ul>	<ul style="list-style-type: none"><li>· Remove the jammed coins.</li><li>· If the coins are not jammed, check the connections.</li><li>· If the error is not resolved, replace the coin selector.</li></ul>
<b>Bullet speed error (A300)</b>	<ul style="list-style-type: none"><li>· Error arise if the bullet speed exceeds the approved bullet speed.</li></ul>	<ul style="list-style-type: none"><li>· Check the gun power setting.</li><li>· Check the bullet error level.</li><li>※ See P.62 [System settings]</li><li>· If the error is not resolved, Contact your distributor.</li></ul>
<b>Fire BBs. (A302)</b>	<ul style="list-style-type: none"><li>· BBs are not reloaded in the Gun device.</li><li>· BBs jammed.</li><li>· BBs are low in BB dispenser.</li></ul>	<ul style="list-style-type: none"><li>· Pull the slide and check the BBs are supplied. Remove BBs when jammed.</li><li>· Check the BB dispenser and replenish if the BBs are low.</li><li>· If the error is not resolved, Contact your distributor.</li></ul>

### ● How to clear errors

Press test switch to clear errors and go back to test mode.  
If the error is resolved, end the test mode and play the game.

If you unplug the power cable, plug in the power to play the game.  
If the error is related with test switch, resolve the error and turn on the power.

## ● Troubleshooting

Item	Trouble	Possible cause	Treatment
Machine	The machine does not start up.	· Power plug is disconnected.	· Plug into outlet.
		· Power cable is disconnected.	· Check the power cable.
		· Fuse is blown.	· Check and replace fuse.
	The monitor does not display images.	· The power cable is disconnected.	· Check the power cable connections to the monitor.
		· The DVI video cable is disconnected.	· Check the DVI video cable connections to the monitor.
		· The power cable of SHIELD CASE & HDD Assy is disconnected.	· Check the power cable connections to the SHIELD CASE & HDD Assy.
		· The power switch of SHIELD CASE & HDD Assy is off.	· If the power switch is OFF(0), turn the power switch ON(1).
		· The DVI video cable of SHIELD CASE & HDD Assy is disconnected.	· See P.77 [Replacing the shield case]
		· The SHIELD CASE & HDD Assy is defective.	· Replace the SHIELD CASE & HDD Assy. Contact your local distributor.
		· The monitor is defective.	· Replace the monitor. Contact your local distributor.
	There is no sound from the speakers.	· The optical cable of SHIELD CASE & HDD Assy is disconnected.	· See P.77 [Replacing the shield case]
		· The optical cable of OPTICAL VR AMP PCB Assy is disconnected.	· See P.80 [OPTICAL VR AMP PCB ASSY] Step 1 to 3.
		· The sound level is set very low.	· See P.46 [Name of each part and Functions]
		· The connector of the speaker is disconnected.	· Check the connector is disconnected.
		· The SHIELD CASE & HDD Assy is malfunctioning.	· Replace the SHIELD CASE & HDD Assy. Contact your local distributor.
		· The OPTICAL VR AMP PCB ASS is malfunctioning.	· Replace the OPTICAL VR AMP PCB Assy. Contact your local distributor.
		· The speaker is malfunctioning.	· Replace the speaker. Contact your local distributor.
	The test switch is malfunctioning.	· The BULLET IO PCB Assy is disconnected.	· See P.79 Replacing PCBs [BULLET IO PCB]
		· The test switch is disconnected.	· Check the connections to the wire.
		· The test switch is malfunctioning.	· Replace the test switch. Contact your local distributor.
	The service switch is malfunctioning.	· Press the service switch more than 20 times.	· The service switch can be used up to 20 consecutive times. The function release by coin-in, end the test mode, or power on.
The coin switch is malfunctioning.	· The connector of the BULLET IO PCB Assy is disconnected.	· See P.79 Replacing PCBs [BULLET IO PCB]	
	· The connector of the coin switch is disconnected.	· Check the connections to the coin connector.	
	· The coin switch is malfunctioning.	· Replace the coin switch. Contact your local distributor.	

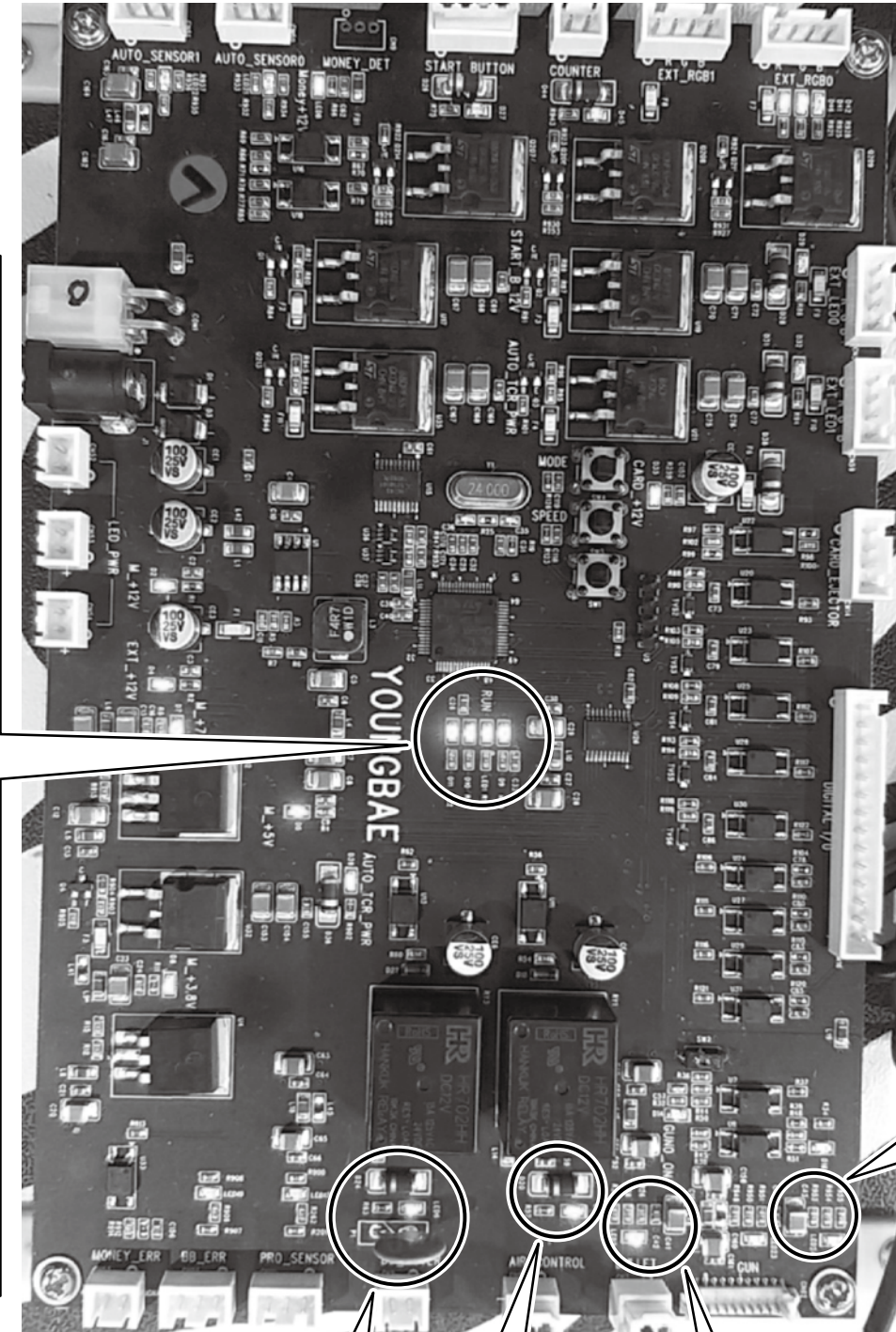
## 5. Error message

Item	Trouble	Possible cause	Treatment
Machine	The switch is malfunctioning.	· The connector of the lamp switch is disconnected.	· Check the connections to the connector.
		· The lamp switch is malfunctioning.	· Replace the lamp switch. Contact your local distributor.
	The switch is not lighting.	· The connector of the lamp switch is disconnected.	· Check the connections to the connector.
		· The lamp switch (LED) is malfunctioning.	· Replace the lamp switch. Contact your local distributor.
	The monitor side LED / monitor below LED is not lighting.	· The connector of the BULLET IO PCB Assy is disconnected.	· See P.79 Replacing PCBs [BULLET IO PCB]
		· The connector of the tap LED is disconnected.	· Check the connections to the connector.
		· The tape LED is malfunctioning.	· Replace the tape LED. Contact your local distributor.
	The title is not lighting.	· The connector of the title LED is disconnected.	· Check the connections to the connector.
		· The title LED is malfunctioning.	· Replace the title LED. Contact your local distributor.
	The sensor is malfunctioning with Gun device.	· The connector of the BULLET IO PCB Assy is disconnected.	· See P.79 Replacing PCBs [BULLET IO PCB]
		· The sensor panel is damaged.	· Replace the sensor panel Assy. Contact your local distributor.
		· The connector of the M SENSOR PCB is disconnected.	· Check the connections to the connector.
		· The M SENSOR PCB is malfunctioning.	· Replace the M SENSOR PCB. Contact your local distributor.
		· The T SENSOR PCB is malfunctioning.	· Replace the T SENSOR PCB. Contact your local distributor.
	Gun device is malfunctioning.	· The Bullet IO PCB Assy is disconnected.	· Check the connector connection. [See P.79 BULLET IO PCB Assy]
		· The connector of the SAFETY UNIT-(TRN.PCB) is disconnected.	· Check the connections to the connector.
		· The safety device ID of SAFETY UNIT-(TRN PCB) and safety device ID is not matched.	· Setup the safety ID from test mode to Gun device ID switch.
		· The SAFETY UNIT-(TRN PCB) is malfunctioning.	· Replace the SAFETY UNIT-(TRN PCB). Contact your local distributor.
		· GUN CONTROL PCB ASSY is malfunctioning.	· Replace the GUN CONTROL PCB Assy. Contact your local distributor.
		· Gun device is malfunctioning.	· Replace the Gun device. Contact your local distributor.
· The air compressor is not supplied with air.		· Check the air compressor works properly. Check the air hose or connection for air leaks.	
· The connector on the connecting cable is not connected correctly.		· Check the connection between shooting cabinet and video cabinet. Check the connections to the connector.	
· BBs are low in BB dispenser.		· Refill the BBs to the BB dispenser.	
The button, switch, LED, Gun device is malfunctioning.	· BULLET IO PCB Assy is malfunctioning.	· Replace the BULLET IO PCB Assy. Contact your local distributor.	

Item	Trouble	Possible cause	Treatment
shooting cabinet	GUN CONTROL PCB Assy is malfunctioning.	· Check the connections of the power plug to the outlet.	· Check the connections within the power plug and insert it correctly to the outlet.
		· Check the connections of of GUN CONTROL PCB Assy to CON1.	· Check the connection between GUN CONTROL PCB Assy and CON1 insert it correctly.
		· Check the monitor case fuse is disconnected.	· Replace the fuse when it is disconnected.
		· Check the power cable connection between monitor cabinet and shooting cabinet.	· If there is no malfunctioning on power cable, replace the GUN CONTROL PCB Assy. Contact your local distributor.
	BB dispenser is malfunctioning	· Check the BBs in the BB dispenser.	· Check the BBs are loaded in the dispenser.
		· Check the connections between of GUN CONTROL PCB Assy and BB Motor connector.	1. Check the connection between GUN CONTROL PCB Assy and the motor connecting cable.
		· Check the BBs are jammed in the gear box or the dispenser.	1. Empty all the BBs from the dispenser and test it. 2. Remove the fitting from the BB hose dispenser and test it.
		· Check the proximity sensor works properly. *Check the sensor color is red.	1. Check the proximity sensor connection connector on the GUN CONTROL PCB Assy and the cable on the proximity sensor are connected properly. 2. If it is not properly working while the proximity sensor is red, remove the fitting from the BB hose dispenser for testing. 3. If the BBs jammed, please remove it.
		· Check that the lamp on the LED6 on the GUN CONTROL PCB Assy is flashing.	1. Activate the trigger and check if the LED 6 lamp on the GUN CONTROL PCB Assy is connected and flashing. 2. If the LED6 on the GUN CONTROL PCB Assy is operating normally, but if the bullet defect persists, please check if the BB bullet is stuck. 3. If there are no errors on step 1 and 2, check the GUN CONTROL PCB Assy and dispenser motor connection cable. 4. If there are no errors on step 1 and 2, please replace the dispenser motor. 5. If the trigger action LED2 on the GUN CONTROL PCB Assy is clear, check whether the safety device is ON or the distance detection sensor on the Gun Device is ON. *If the bottom LED of the safety device is red and BB is not fired, it cannot be launched if the GUN CONTROL PCB Assy LED 24 is on, so please check the connection status of the safety device board. 6. If all the above conditions are normal, but the LED6 on the GUN CONTROL PCB Assy does not have a flashing signal, Replace the GUN CONTROL PCB Assy since it may be defective.

## 5. Error message

Item	Trouble	Possible cause	Treatment
shooting cabinet	Shooting failure	· Check the 9P cable on the GUN CONTROL PCB Assy is connected properly.	· Check the cable connection.
		· Check if the LED2 on the GUN CONTROL PCB Assy flashes when trigger is active	<ol style="list-style-type: none"> <li>1. Activate the trigger and check if the LED2 lamp on the GUN CONTROL PCB Assy flashes.</li> <li>2. If the LED2 lamp on the GUN CONTROL PCB Assy fails to flash while activating the trigger, check that the 2P connector in the Gun Device magazine housing is connected properly.</li> <li>3. If there are no errors on step 1 and 2, loosen the headscrews of the Gun Device magazine, remove the slide from the magazine about 10mm, check that the lead sensor in the lower hammer housing is in place, and that the trigger lever is moving normally.</li> <li>4. Please check if there is a connection error in the lead sensor cable of the Gun Device.</li> </ol>
		· Check the defective BBs are jammed.	<ol style="list-style-type: none"> <li>1. With Gun Device's slide retracted, make sure that the BB is up.</li> <li>2. Check that the broken BB bullet is hung in an aluminum bushing at the top of the BB supply hose or BB dispenser gearbox.</li> </ol>
		· Check that the cables on the GUN CONTROL PCB Assy and the BULLET I/O board are connected properly.	· Check the 6Pin cable on the GUN CONTROL PCB Assy and the BULLET I/O board is connected normally.
		· Check the bottom LED of the safety device is red.	<ol style="list-style-type: none"> <li>1. Check that the 9Pin cable to the safety device and the GUN CONTROL PCB Assy is connected properly.</li> <li>2. Check the 9Pin connector in Gun Device's magazine housing is not backed out.</li> <li>3. Check the safety board and cable in the restraint are inserted or connected normally.</li> </ol>
		· Check the the proximity sensor LED of the safety device is green.	1. Since the proximity sensor of the safety device is not fired when the sensor is red, check that the proximity of the safety device is obstructed and the proximity sensor is intact.
	· Check the compressor for normal operation and the air hose connection and pressure gauge.	<ol style="list-style-type: none"> <li>1. Check if the pressure gauge inside the shooting cabinet is between 6.2 and 6.5. ※Caution: The pressure must not exceed 6.5.</li> <li>2. Check the GUN CONTROL PCB Assy and the air valve connectors and cables are connected properly.</li> <li>3. If there are errors on step 1, check the compressor condition and set the pressure gauge to 6.2-6.5.</li> <li>4. When you activate the next trigger, check the lamp of the LED4 on the GUN CONTROL PCB Assy.</li> <li>5. If the LED lamp is flashing, check the air while activating the trigger. if there is no air out, replace the air valve.</li> <li>6. If there are no errors on step 5, check that the air hose is connected properly to the air hose fitting on the magazine.</li> </ol>	



LED24 : BBs cannot be fire while ON.  
Check the connection between the safety device and the GUN CONTROL PCB Assy.

Trigger motion detection signal LED2

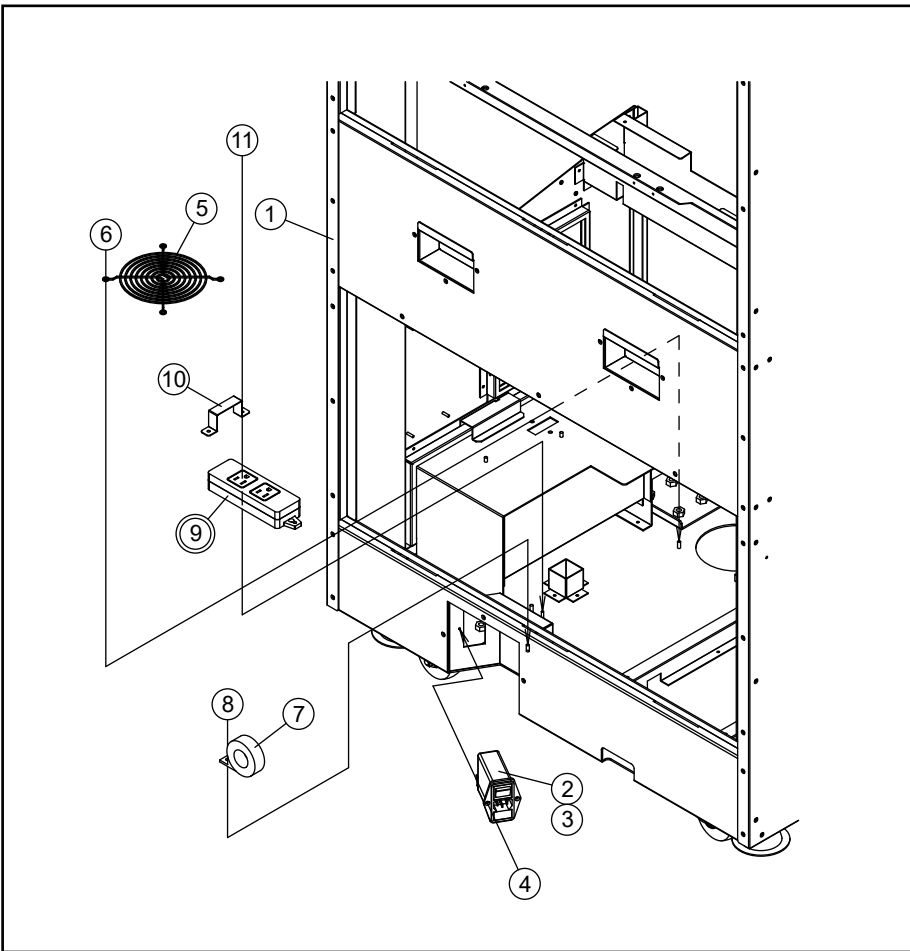
Displaying the air bell on output signal LED4 when trigger is activated

BB dispenser motor ON output signal display LED6 when trigger is activated

GUN CONTROL PCB Assy RUN signal display LED with normal operating status (normal operating state when 4 LEDs flash)

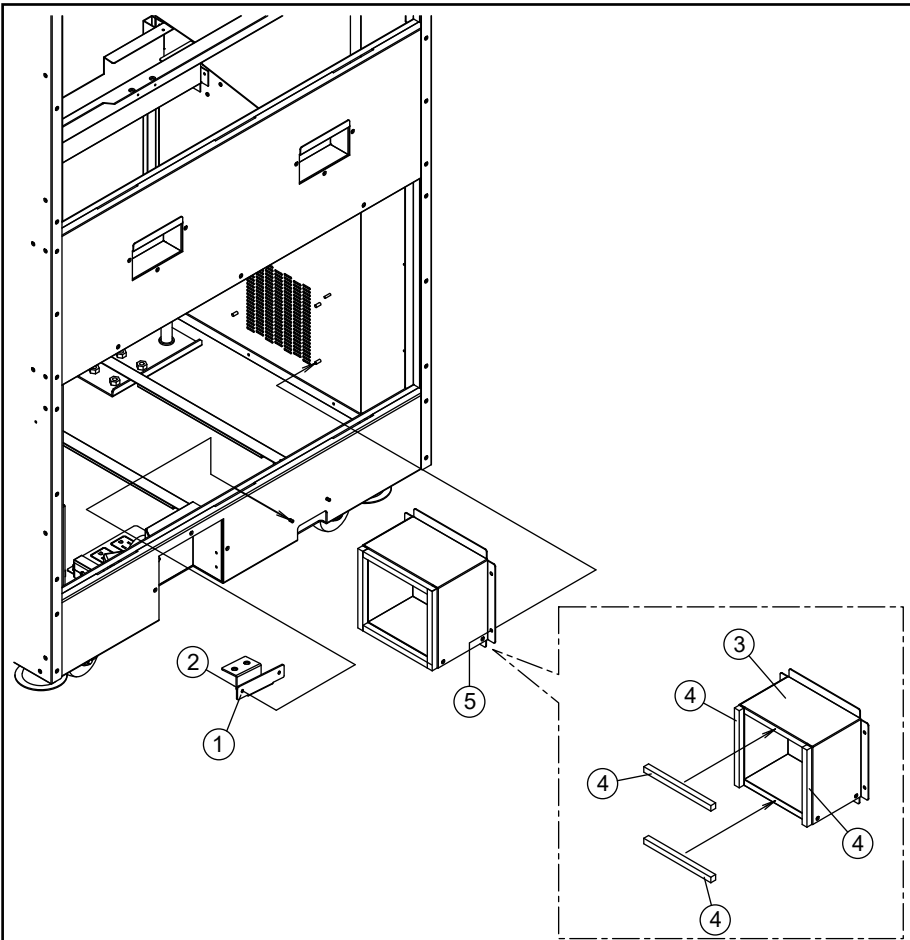
# Parts Diagram

VIDEO CABINET ASSY [1] ~ [24].....	117 ~ 128
OUTLET 2P ASSY.....	129
FRONT GUARD SHEET ASSY.....	129
TITLE BOX ASSY [1] ~ [3].....	130 ~ 131
MONITOR ASSY.....	131
SENSOR PANEL ASSY [1] ~ [6].....	132 ~ 134
FRONT LED ASSY.....	135
SAFETY ASSY.....	135
SHOOTING CABINET ASSY[1] ~[8].....	136 ~ 139
FRONT SIDE WOOD BODY ASSY RH.....	140
FRONT SIDE WOOD BODY ASSY LH.....	140
CENTRAL CONTROL ASSY.....	141



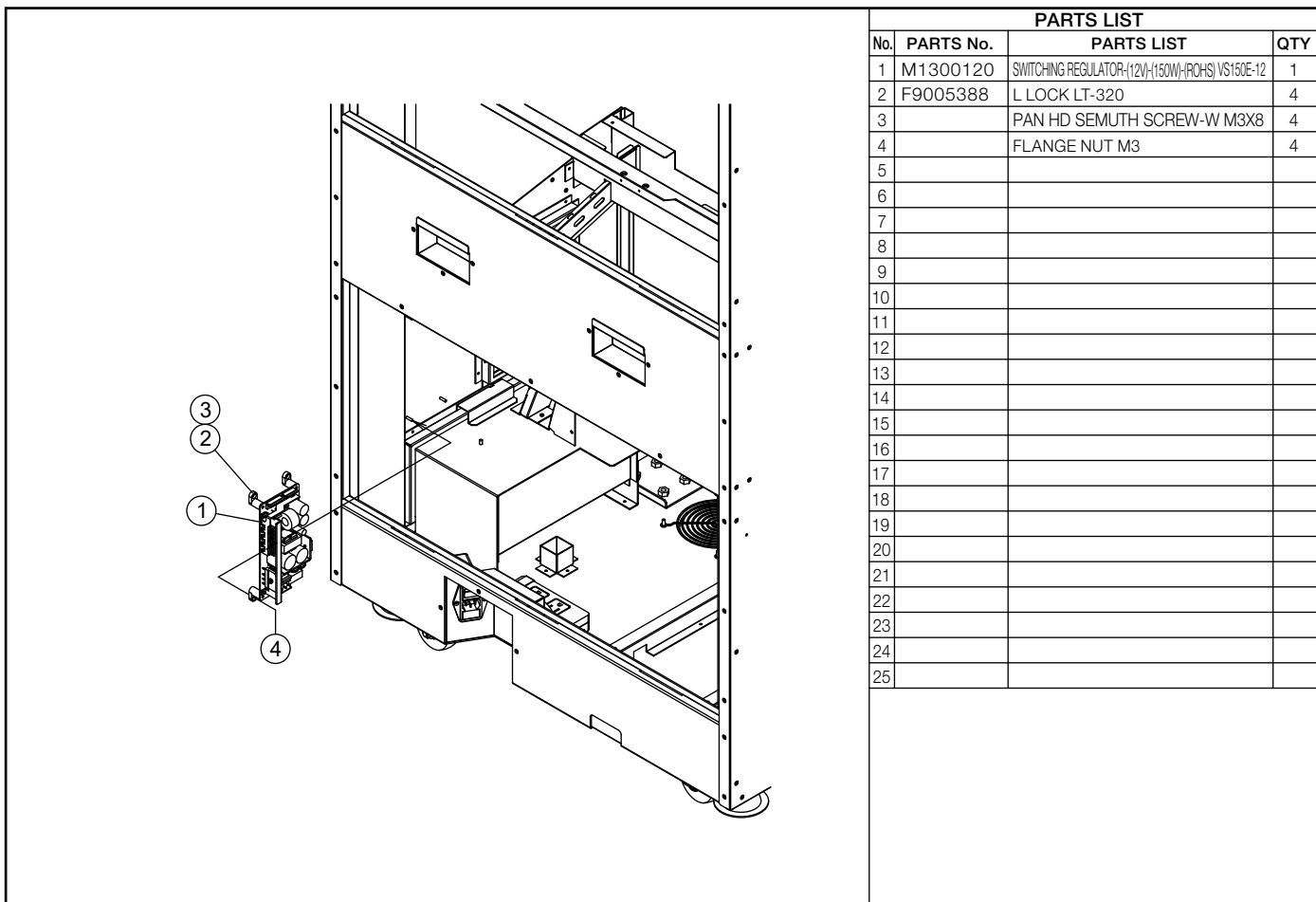
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3104371	CABINET-(WITH PARTS)	1
2	C1900121	POWER ENTRY MODULE-(ROHS) FN1393-10-06-11[R]	1
3	C1600037	FUSE-(5A 125V)-(6.3X30)-(PBF) FGBO 125V-5A PBF	2
4		C SINK HD SCREW M3X8	2
5	E5060866	120MM FAN GUARD-(ROHS) WW1200YSWWA	1
6		FLANGE NUT M4	4
7	C1101237	RING CORE-(ROHS) ESD-R-47B	1
8		FLANGE NUT M4	1
9	M9009233	OUTLET 2P ASSY DENS SHADE GO!!	1
10	E3021245	OUTLET BRACKET	1
11		FLANGE NUT M3	3
	L9007045	AC1 HARNESS	1
	L9007276	RING CORE HARNESS	1
	L9007272	AC HARNESS	1
	L1000498	MAIN HARNESS	1
	L9007275	CABINET HARNESS	1
	C0700368	AC CORD-WITH PLUG-F-2M-(ROHS) YP-12V/C-12 VCTF3X0.75 B 2M	1
	L9007284	USB CABLE-(AB)-(L=1100)-(ROHS) (RED)	1
	L9007285	USB RELAY CABLE-(TYPE A)-(L=1200)-(ROHS) (WHITE)	1
	L9007286	USB RELAY CABLE-(A)-(L=2300)-(ROHS) (BLACK)	1
	L9007283	OPTICAL CABLE-(L=800)-(ROHS)	1
	L3000606	K HARNESS	1
	C1101487	FERRITE CORE-(ROHS) NFT-11	2
	C1101489	FERRITE CORE-(ROHS) NFT-4B-20DK	2
	C1101491	FERRITE CORE-(ROHS) NFT-6B-20DK	1
	C1101492	FERRITE CORE-(ROHS) NFT-8B-20DK	2
	C1101493	FERRITE CORE-(ROHS) NFT-10B-20DK	1
	C1101494	FERRITE CORE-(ROHS) NFT-12B-20DK	2
	C1101497	FERRITE CORE-(ROHS) NFT-12	2

## VIDEO CABINET ASSY [1]



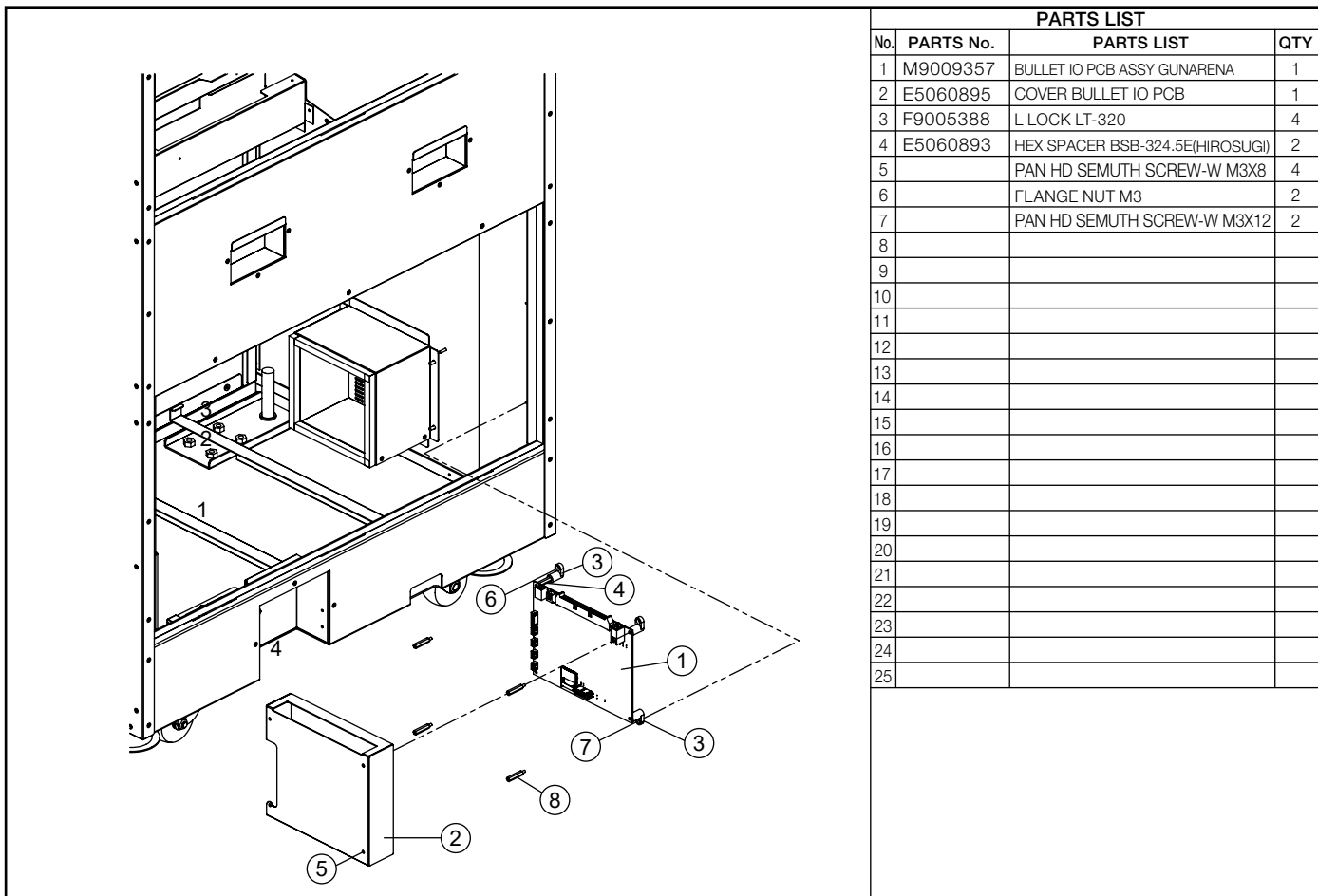
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3103995	CONNECTOR BOX MOUNT BKT	1
2		WING NUT M3	2
3	E3104375	DUCT BRACKET	1
4	F9009292	DUCT SPONGE	4
5		FLANGE NUT M4	4
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## VIDEO CABINET ASSY [2]



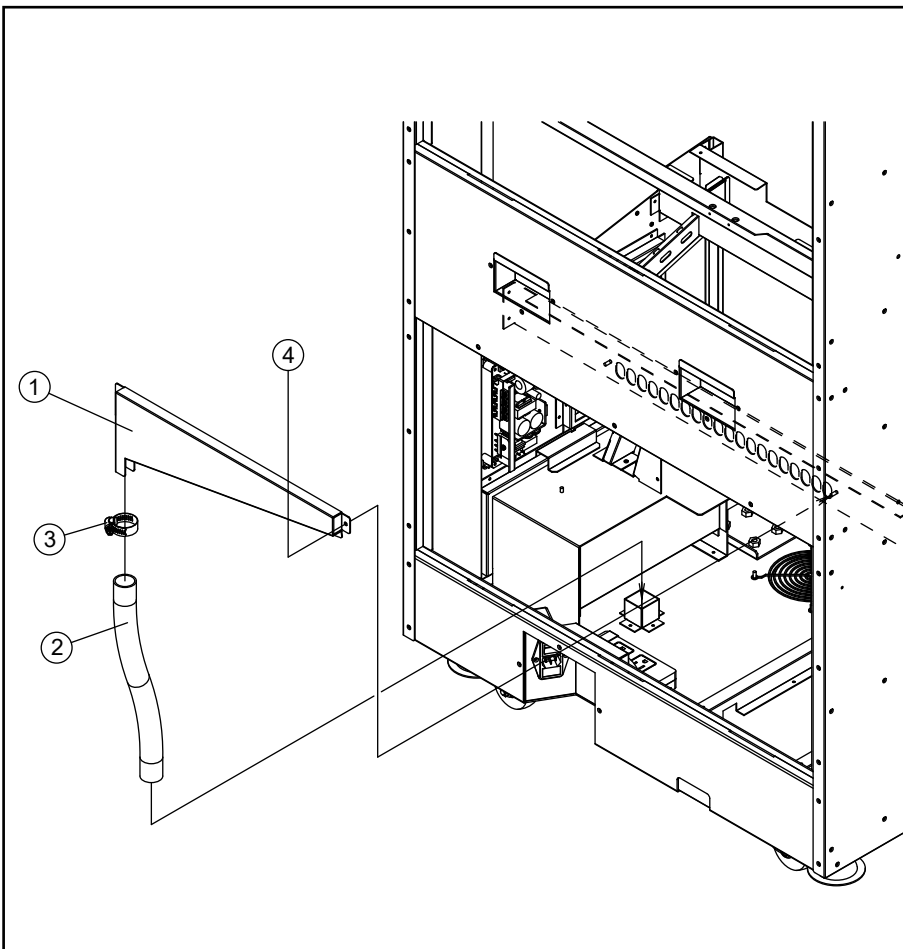
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	M1300120	SWITCHING REGULATOR-(12V)-(150W)-(PCHS) VS150E-12	1
2	F9005388	L LOCK LT-320	4
3		PAN HD SEMUTH SCREW-W M3X8	4
4		FLANGE NUT M3	4
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### VIDEO CABINET ASSY [3]



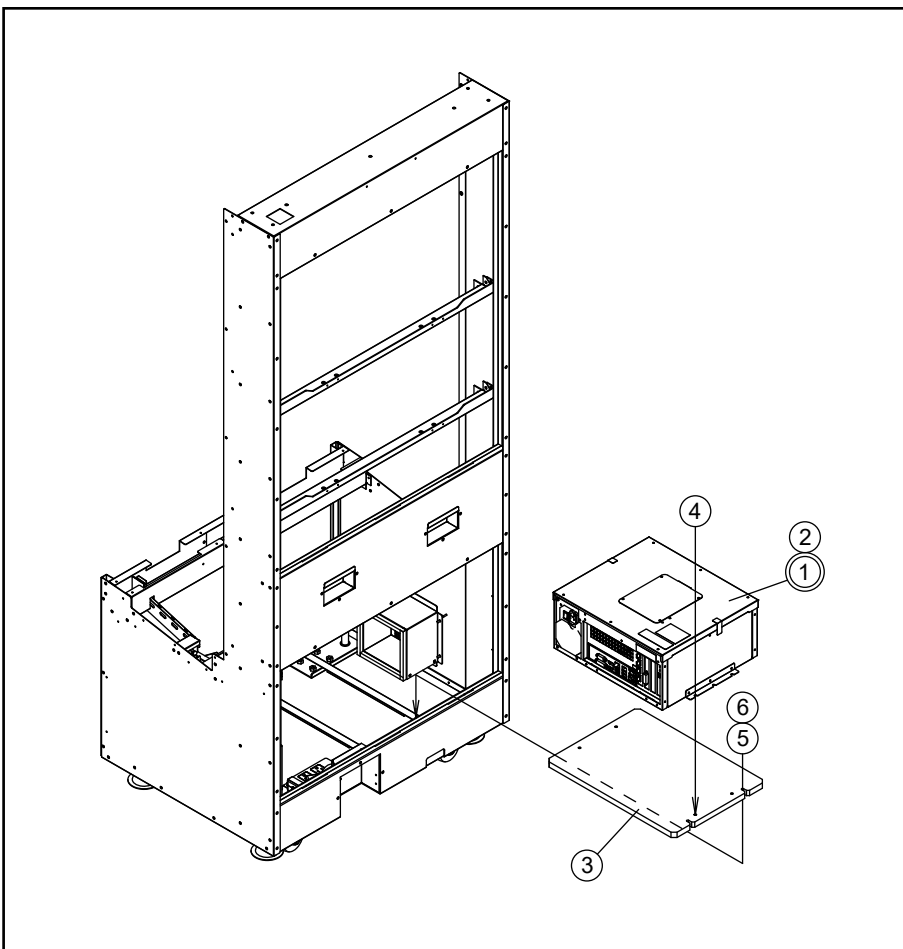
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	M9009357	BULLET IO PCB ASSY GUNARENA	1
2	E5060895	COVER BULLET IO PCB	1
3	F9005388	L LOCK LT-320	4
4	E5060893	HEX SPACER BSB-324.5E(HIROSUGI)	2
5		PAN HD SEMUTH SCREW-W M3X8	4
6		FLANGE NUT M3	2
7		PAN HD SEMUTH SCREW-W M3X12	2
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### VIDEO CABINET ASSY [4]



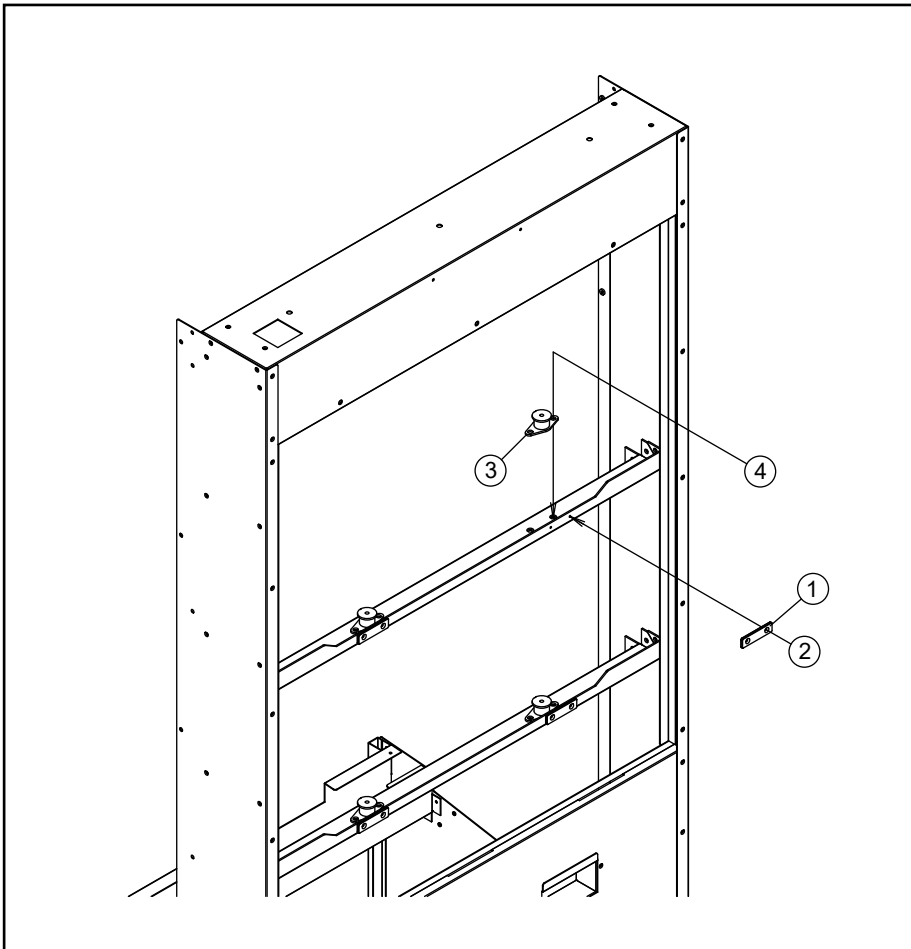
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3104370	BALL CHUTE	1
2	F9009407	HOSE-(D=25) VS-CL-25(KANAFLEX)	1
3	E5060894	HOSE BAND TJBC YS01A2232	1
4		FLANGE NUT M4	2
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**VIDEO CABINET ASSY [5]**



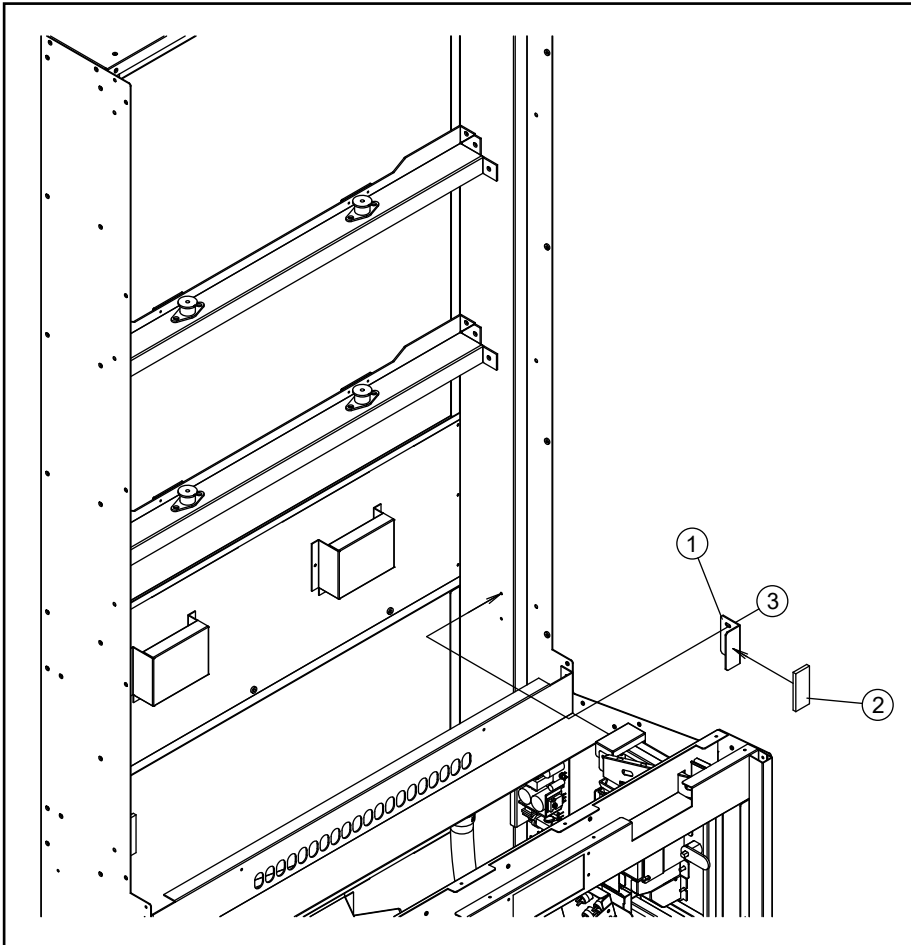
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	M9009355	SHIELD CASE & HDD ASSY GUNARENA	1
2	M1000761	BLUETOOTH USB ADAPTER-(CLASS2) LBT-UAN06C2/N	1
3	D2002098	SHIELD CASE BOARD	1
4		PAN HD SEMUTH SCREW-W M4X12	4
5		PLAIN WASHER 4.5X18X1.6T	2
6		WING BOLT M4X20	2
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**VIDEO CABINET ASSY [6]**



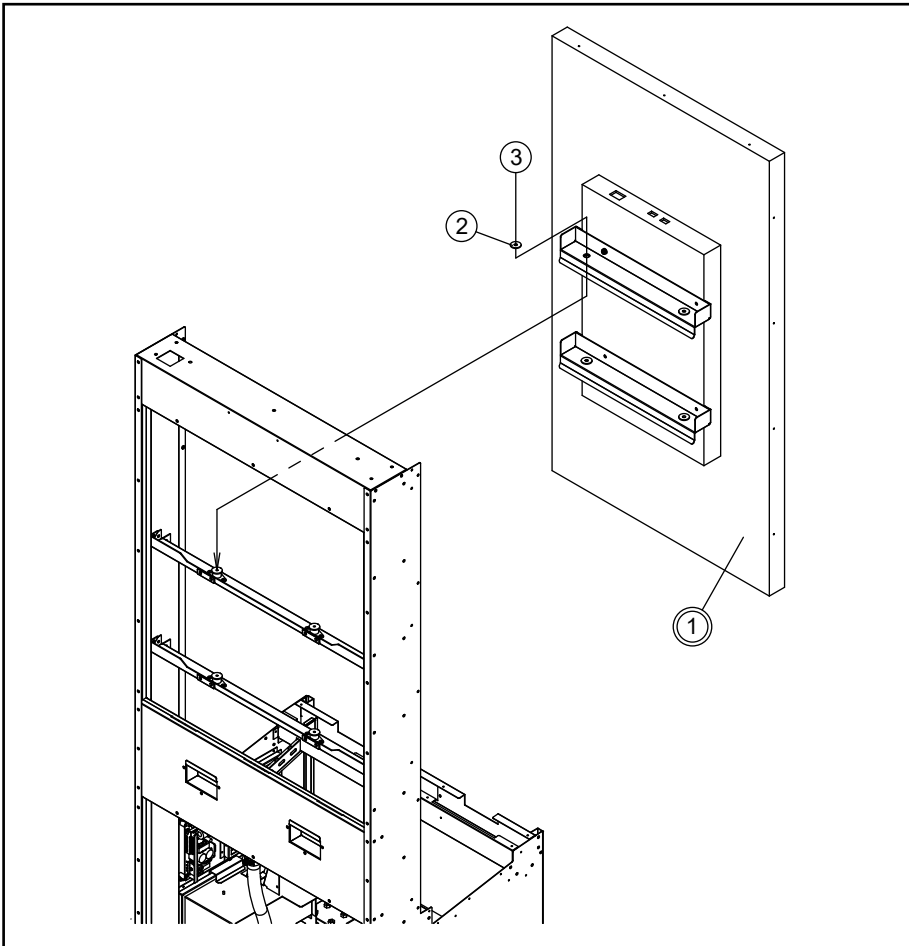
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	F9009409	LCD HOOK GUIDE	4
2		C SINK HD SCREW M3X8	8
3	F9007990	VIBRATION CONTROL RUBBER RB-25	4
4		SEMUTH UPSET BOLT-W M6X12	8
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**VIDEO CABINET ASSY [7]**



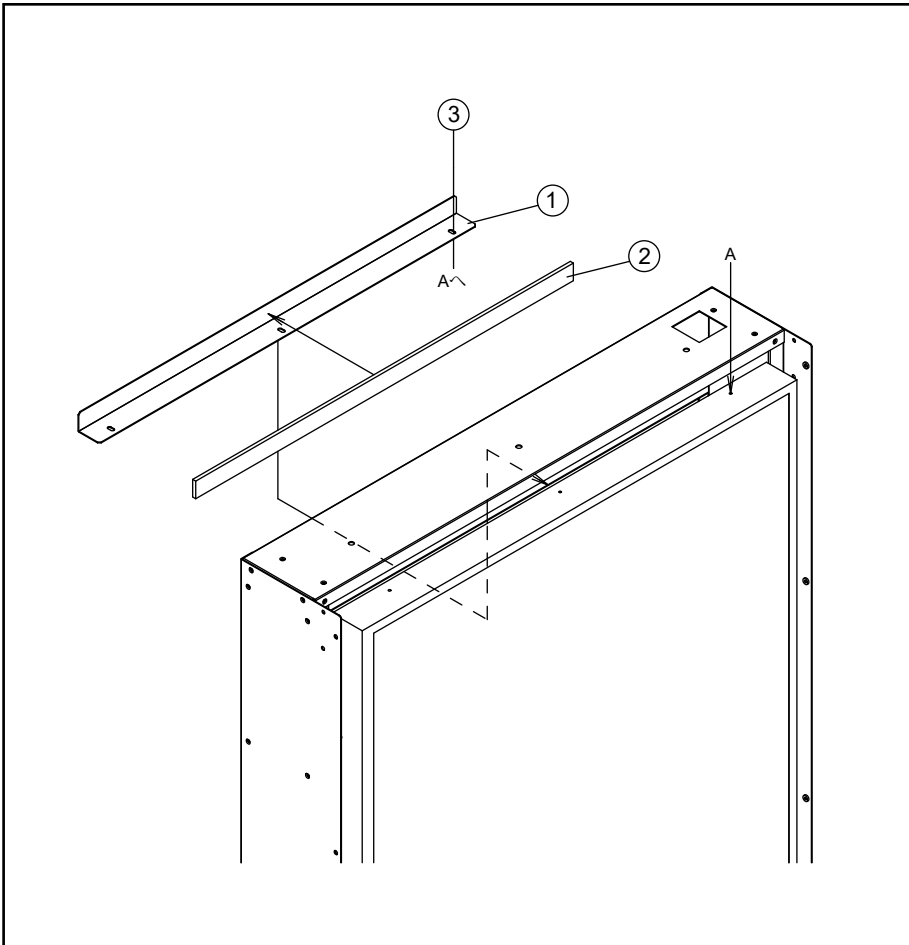
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3021533	MONITOR STOPPER BRACKET-(UNDER)	2
2	F9009411	RUBBER 60X25X5	2
3		PAN HD SEMUTH SCREW-W M4X8	4
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**VIDEO CABINET ASSY [8]**



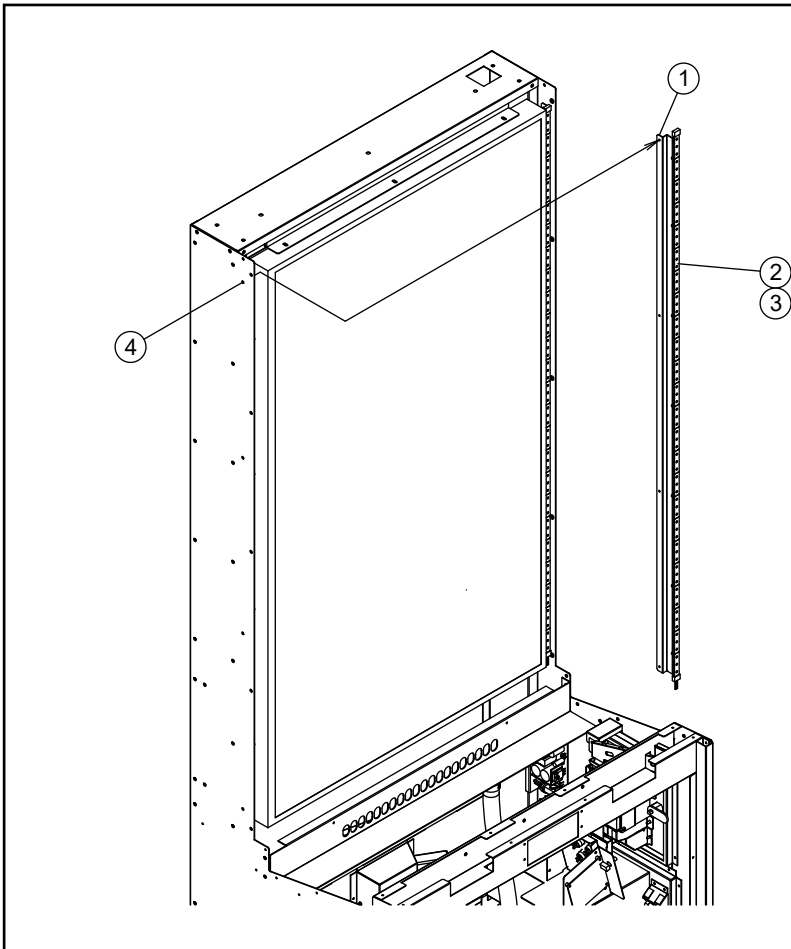
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	M9009344	MONITOR ASSY GUNARENA	1
2	F9009019	LCD SPACER	4
3		SEMUTH UPSET BOLT-W M6X14	4
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**VIDEO CABINET ASSY [9]**



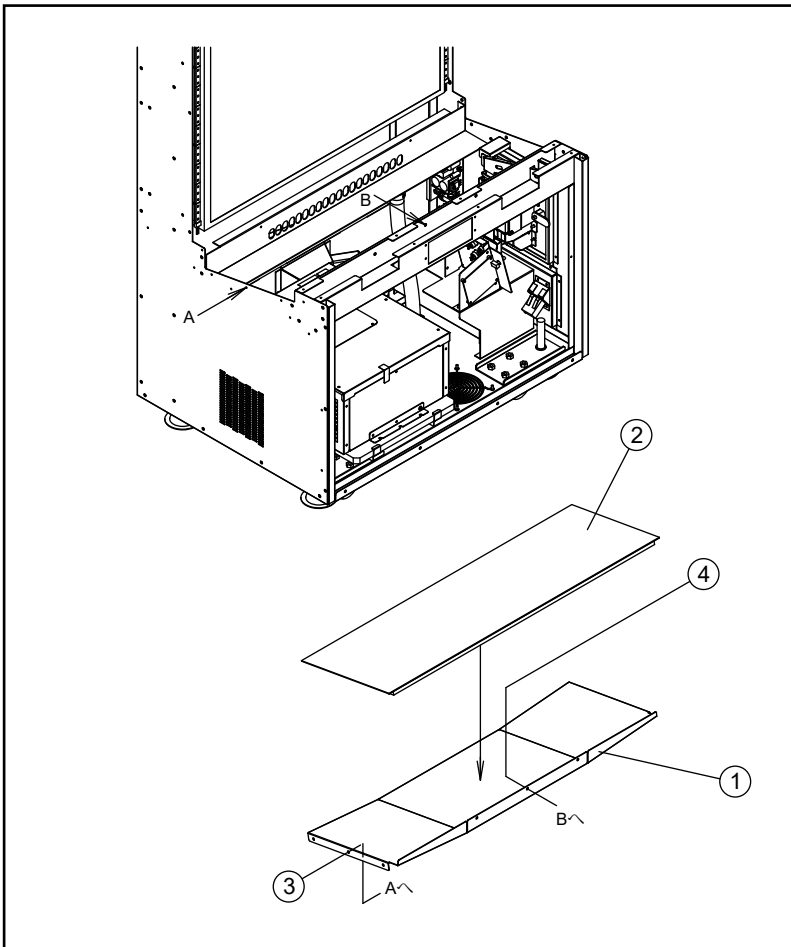
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3021534	MONITOR STOPPER BRACKET-(UPPER)	1
2	F9009412	RUBBER 620X25X5	1
3		PAN HD SEMUTH SCREW-W M4X8	3
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**VIDEO CABINET ASSY [10]**



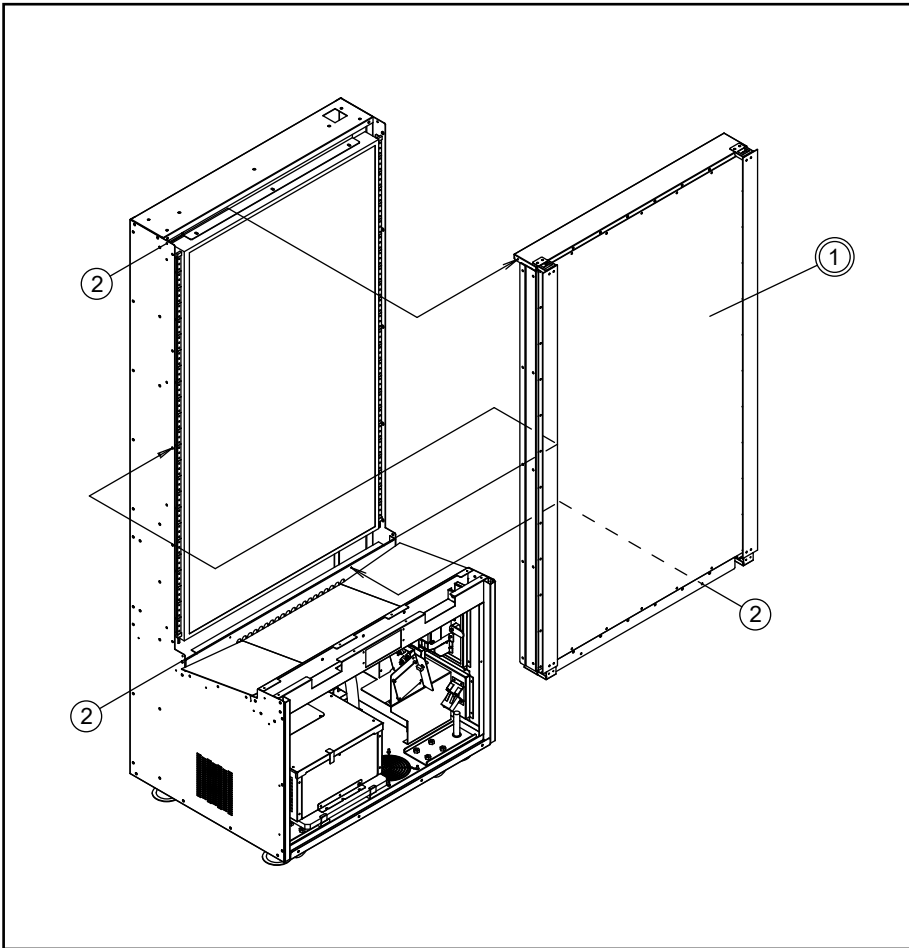
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3104381	LCD SIDE LED BRACKET	2
2	M1000764	TAPE LED-(LED FULL) (L=1200)-(ROHS)	2
3	F0100121	CONVEX-(L=100)-(IVORY) AB100-IVY(L=100)	14
4		BIND HD SCREW-(BLACK) M4X8	8
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### VIDEO CABINET ASSY [11]



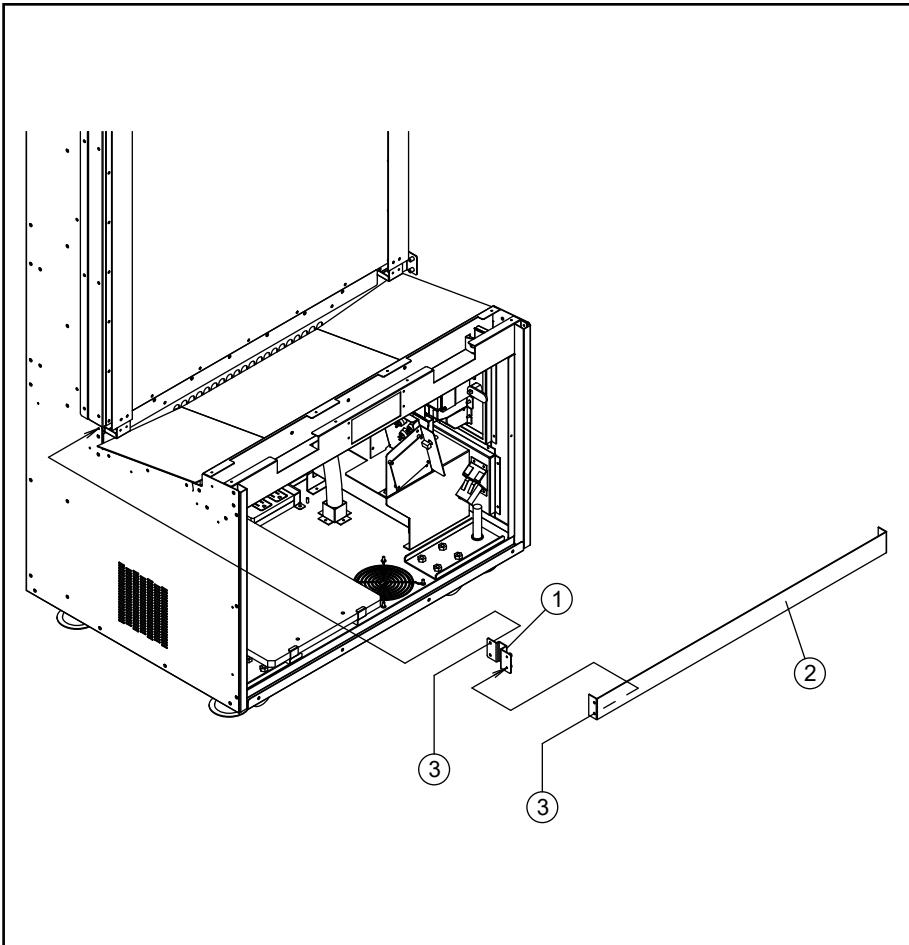
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3104392	SLOPE	1
2	F9009410	RECOVERY BOX SHEET	1
3		PAN HD SEMUTH SCREW-W-M4X8	6
4		BIND HD SCREW-(BLACK) M4X8	3
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### VIDEO CABINET ASSY [12]



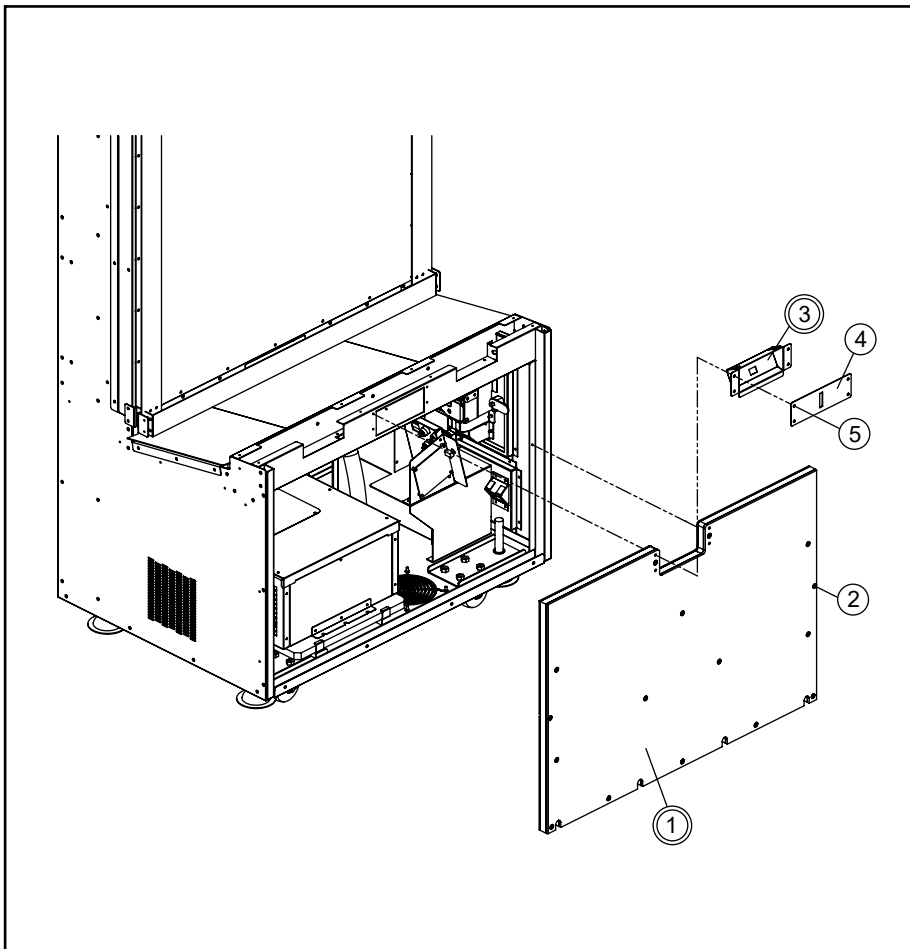
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	M9009347	SENSOR PANEL ASSY GUNARENA	1
2		BIND HD SCREW-(BLACK) M4X8	14
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**VIDEO CABINET ASSY [13]**



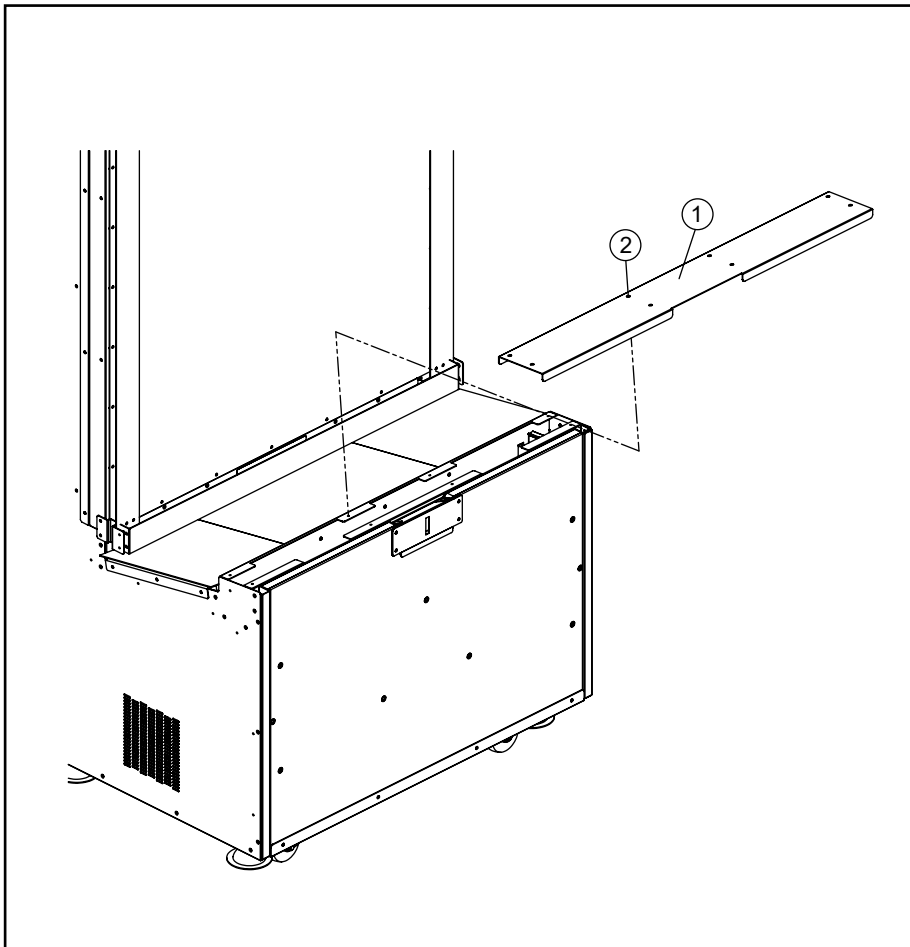
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3104384	SENSOR FRAME GUARD BRACKET-(UNDER)	2
2	F9009416	SENSOR PANEL SHEET-(UNDER)	1
3		BIND HD SCREW-(BLACK) M4X8	8
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**VIDEO CABINET ASSY [14]**



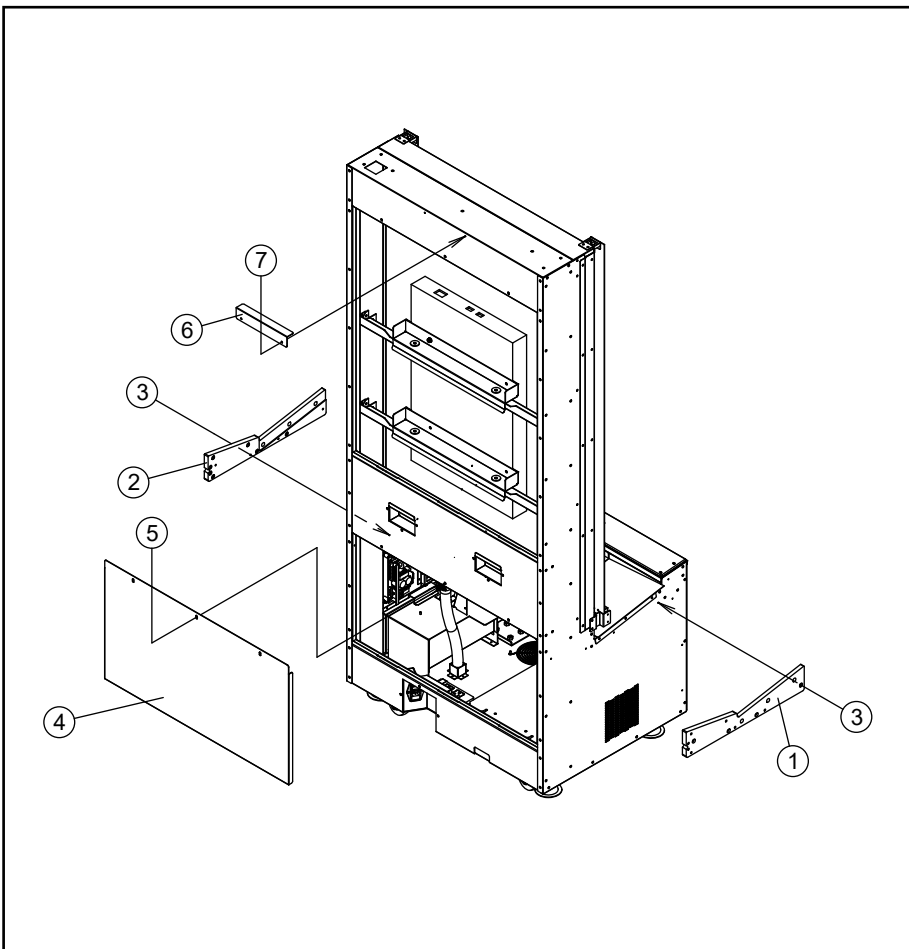
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	M9009343	FRONT LED ASSY GUNARENA	1
2		SPECIAL LOW HD CAP BOLT-(BLACK) M4X25	2
3	M9009345	SAFETY ASSY GUNARENA	1
4	E5060896	IR PCB SLIT PLATE	1
5		BIND HD SCREW-(BLACK) M4X30	4
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**VIDEO CABINET ASSY [15]**



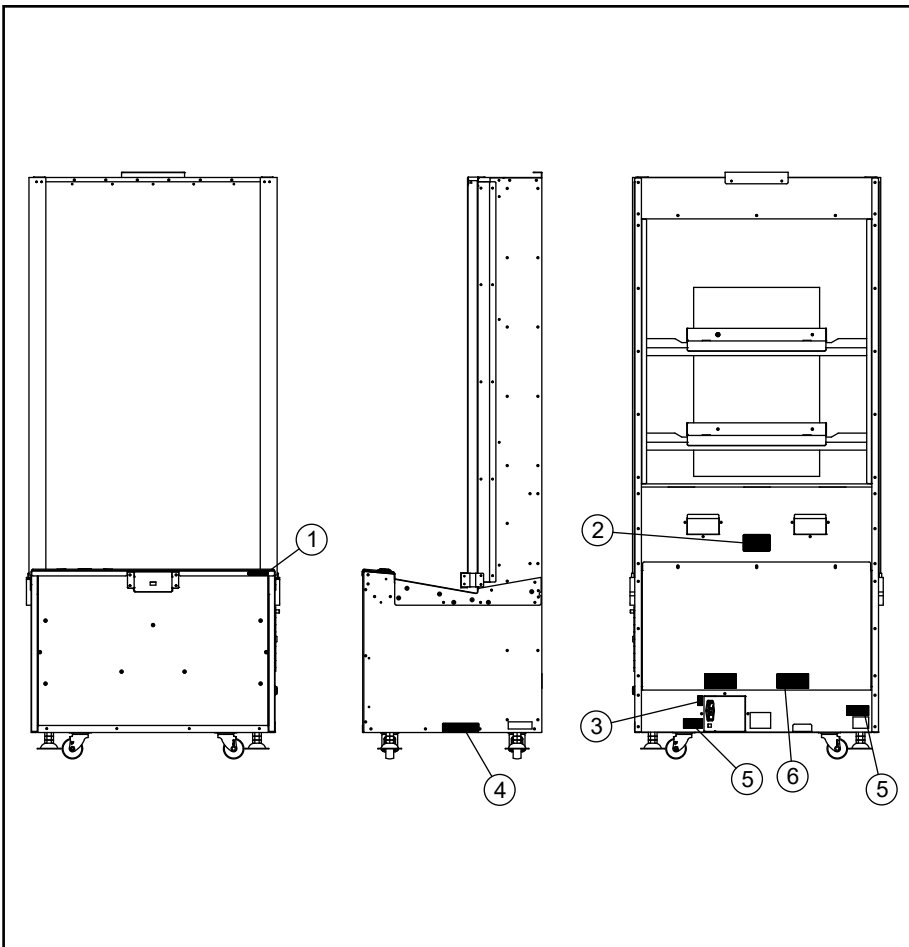
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E5060903	SLOPE UPPER BASE	1
2		TORX SCREW(BLACK) M4x8	4
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**VIDEO CABINET ASSY [16]**



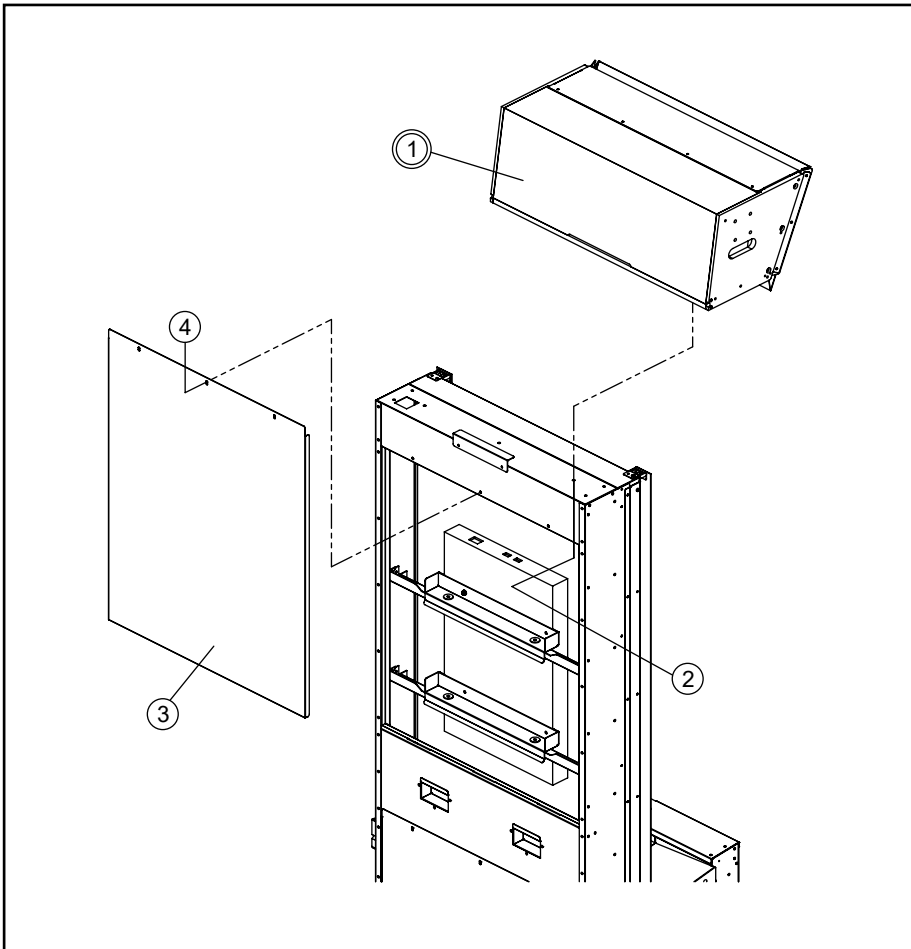
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	D2100229	SIDE BASE-L-(MIDDLE)	1
2	D2100231	SIDE BASE-R-(MIDDLE)	1
3		PAN HD SEMUTH SCREW-W M4X16	8
4	E3104367	BACK DOOR-(LOWER)	1
5		SEMUTH UPSET BOLT-W-(BLACK) M5X12	3
6	E3104398	TITLE BOX HOLDER	1
7		BIND HD SCREW-(BLACK) M4X8	2
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**VIDEO CABINET ASSY [17]**



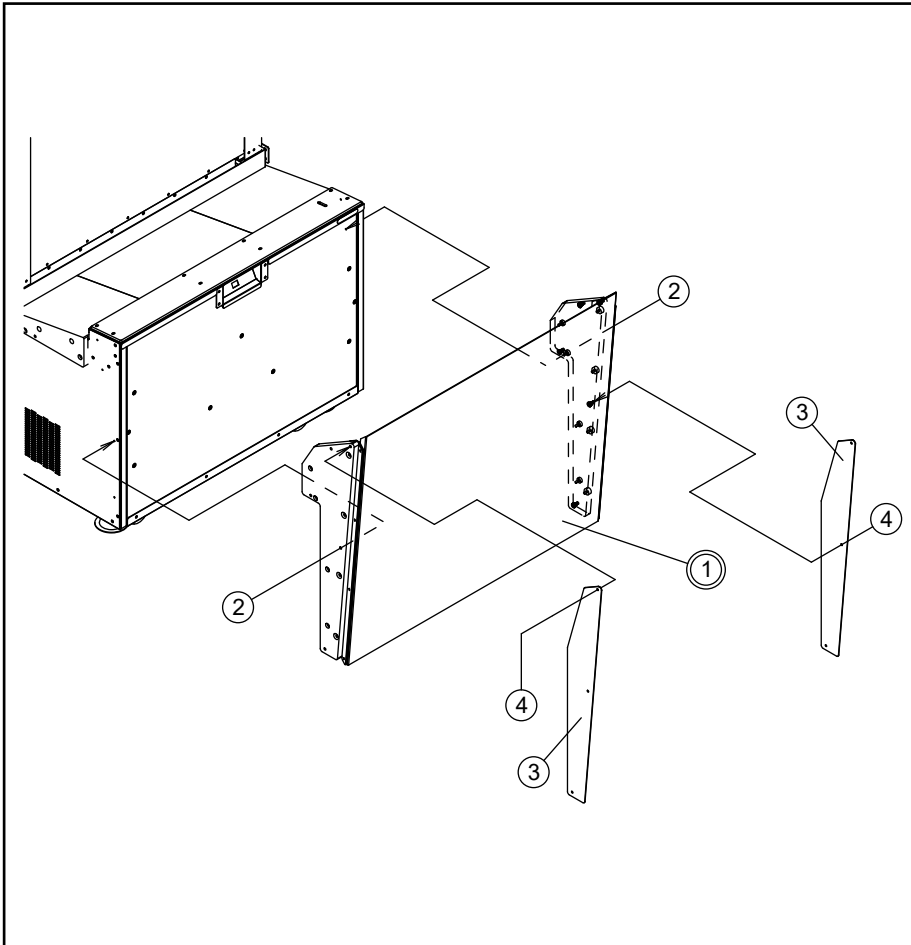
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	G1001377	PATENT STICKER	1
2	G1001389	VOLTAGE WARNING STICKER	1
3	G1002871	CABINET STICKER SHEET-(BASIC)	1
4	G1003160	RECOVERY BOX STICKER	1
5	G1003161	CABINET STICKER SHEET-(GUNARENA) GUNARENA	1
6	G1003167	TRANSPORT STICKER	2
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**VIDEO CABINET ASSY [18]**



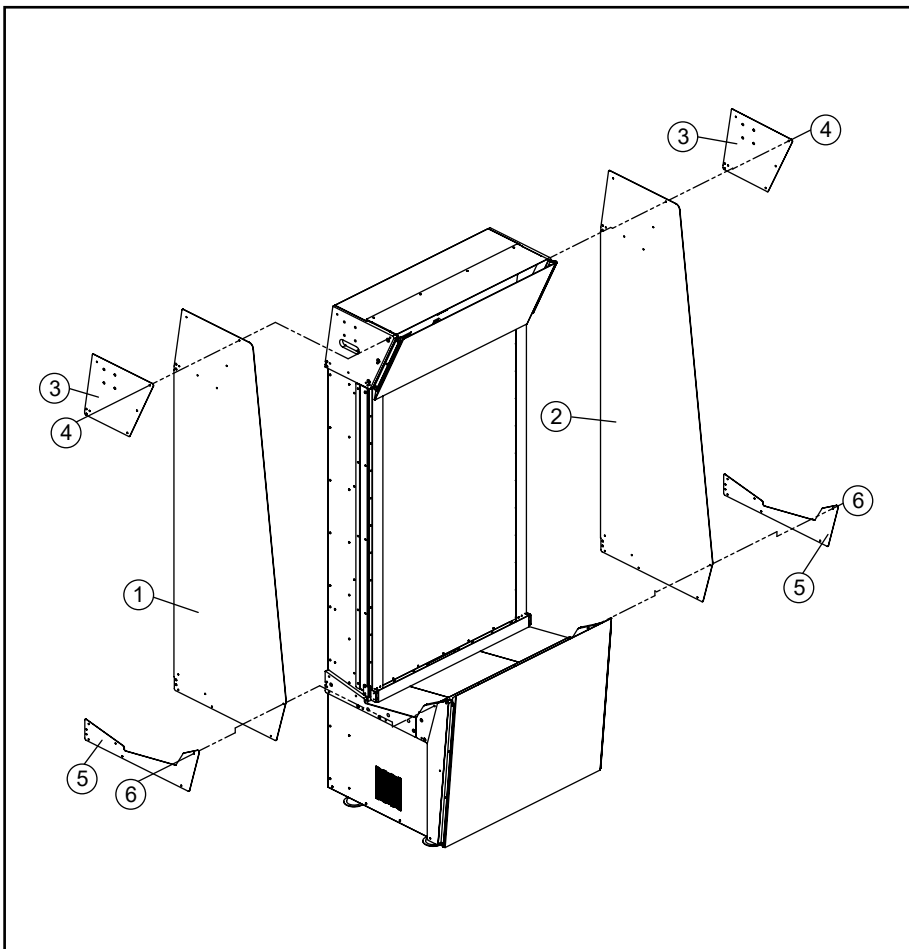
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	M9009350	TITLE BOX ASSY GUNARENA KR	1
2		SEMUTH UPSET BOLT-W M6X18	3
3	E3104368	BACK DOOR-(UPPER)	1
4		SEMUTH UPSET BOLT-W-(BLACK) M5X12	3
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**VIDEO CABINET ASSY [19]**



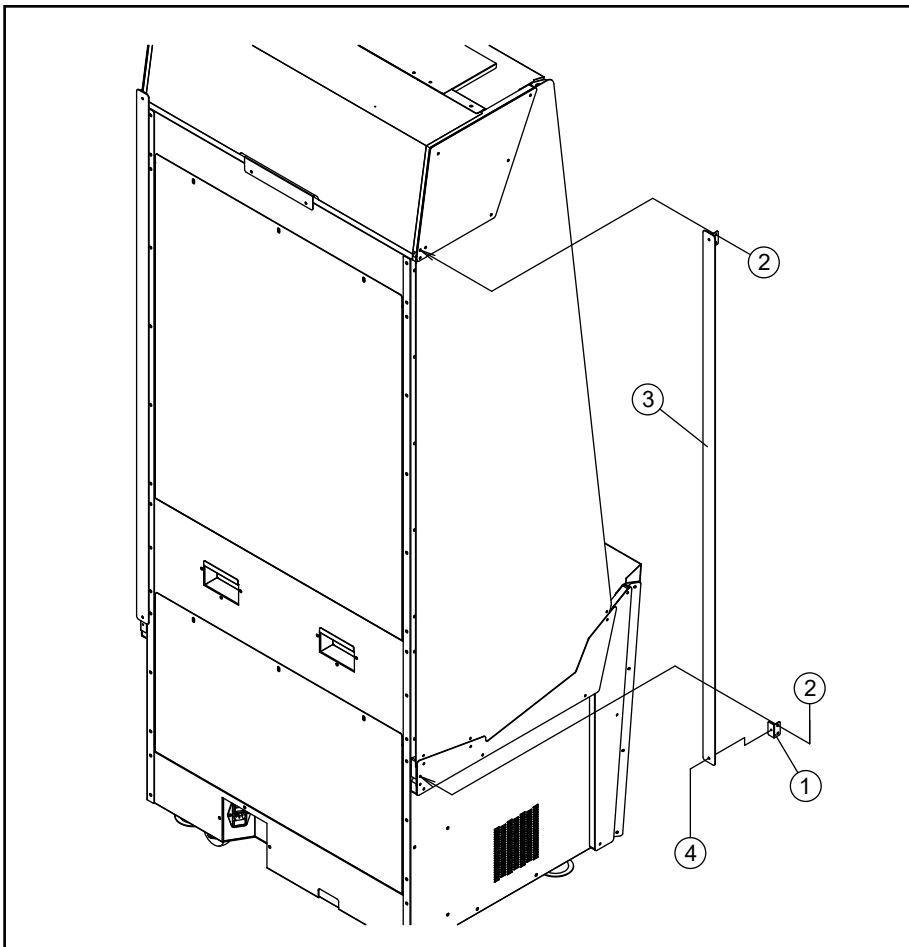
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	M9009342	FRONT GUARD SHEET ASSY GUNARENA	1
2		PAN HD SEMUTH SCREW-W M4X16	8
3	E3104389	SIDE GUARD PLATE-(FRONT)	2
4		BIND HD SCREW-(BLACK) M4X16	6
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**VIDEO CABINET ASSY [20]**



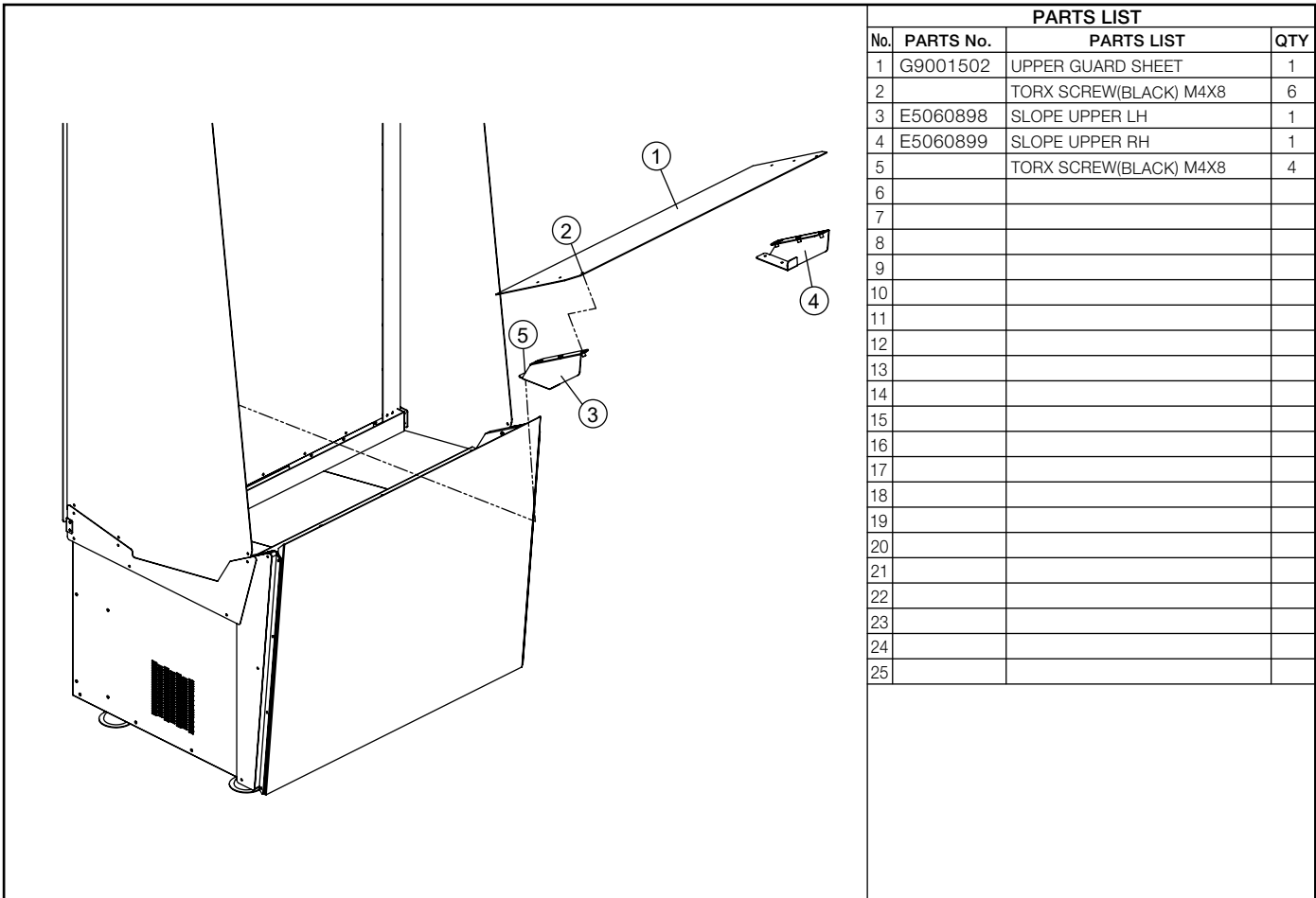
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	G9001500	SIDE GUARD SHEET-L-(MIDDLE) GUNARENA	1
2	G9001501	SIDE GUARD SHEET-R-(MIDDLE) GUNARENA	1
3	E3104391	SIDE GUARD PLATE-(TITLE)KR	2
4		BIND HD SCREW-(BLACK) M4X16	10
5	E3104390	SIDE GUARD PLATE-(MIDDLE)	2
6		BIND HD SCREW-(BLACK) M4X16	12
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**VIDEO CABINET ASSY [21]**



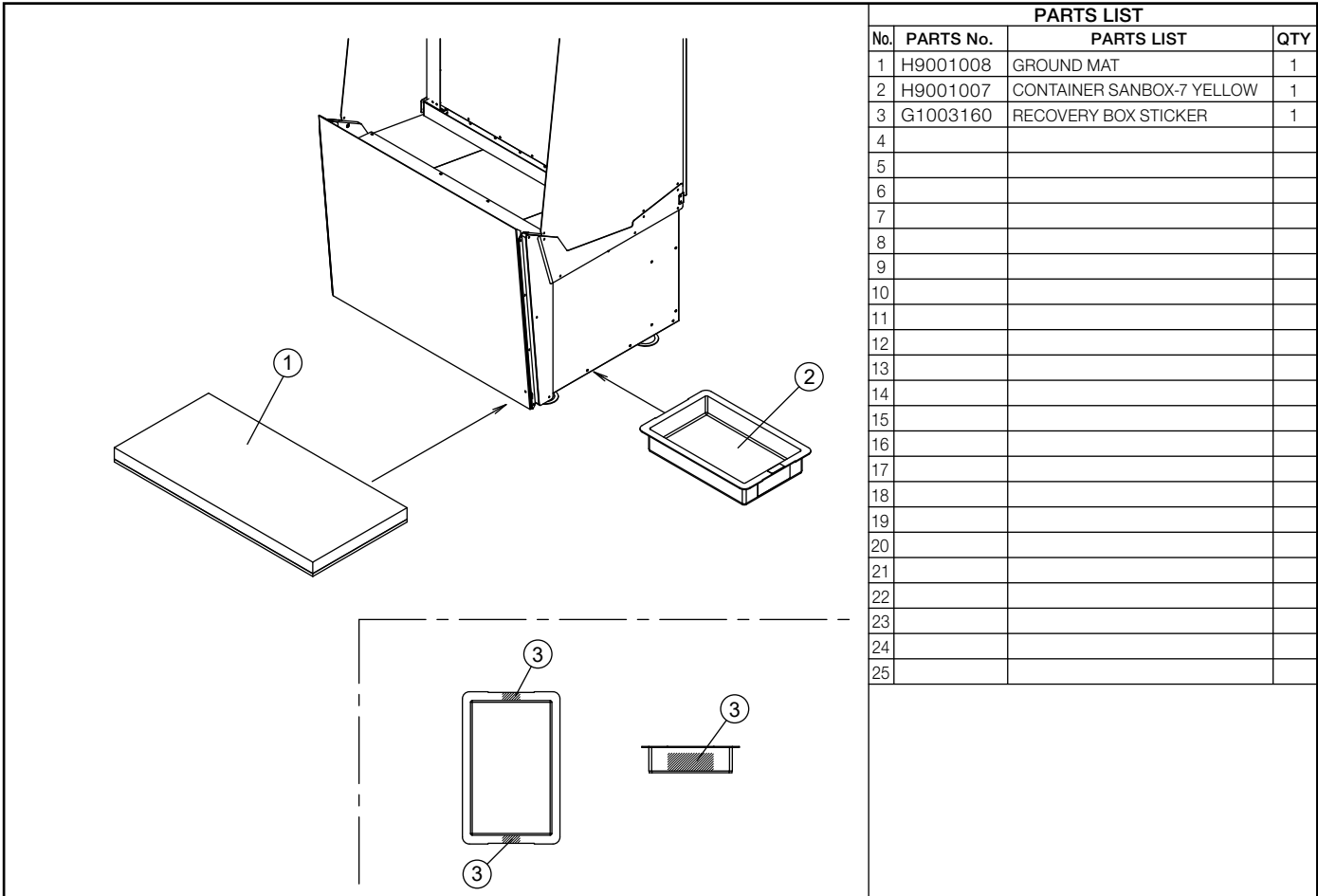
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3104369	BACK GUARD BRACKET	4
2		BIND HD SCREW-(BLACK) M4X16	8
3	F9009403	BACK GUARD SHEET	2
4		BIND HD SCREW-(BLACK) M4X8	4
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**VIDEO CABINET ASSY [22]**



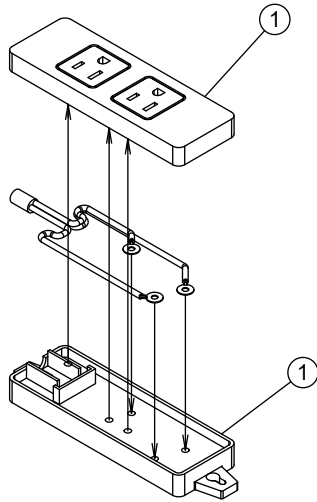
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	G9001502	UPPER GUARD SHEET	1
2		TORX SCREW(BLACK) M4X8	6
3	E5060898	SLOPE UPPER LH	1
4	E5060899	SLOPE UPPER RH	1
5		TORX SCREW(BLACK) M4X8	4
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**VIDEO CABINET ASSY [23]**



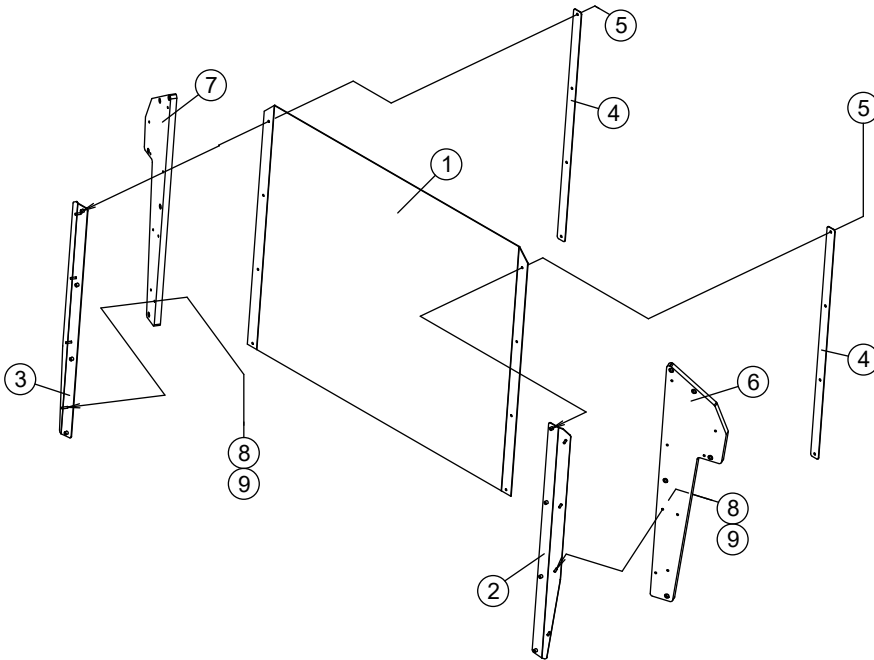
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	H9001008	GROUND MAT	1
2	H9001007	CONTAINER SANBOX-7 YELLOW	1
3	G1003160	RECOVERY BOX STICKER	1
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**VIDEO CABINET ASSY [24]**



PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	M1000707	OA TAP-(2P/15A)-(ROHS) WCH2302H	1
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	L9007151	OUTLET HARNESS	1

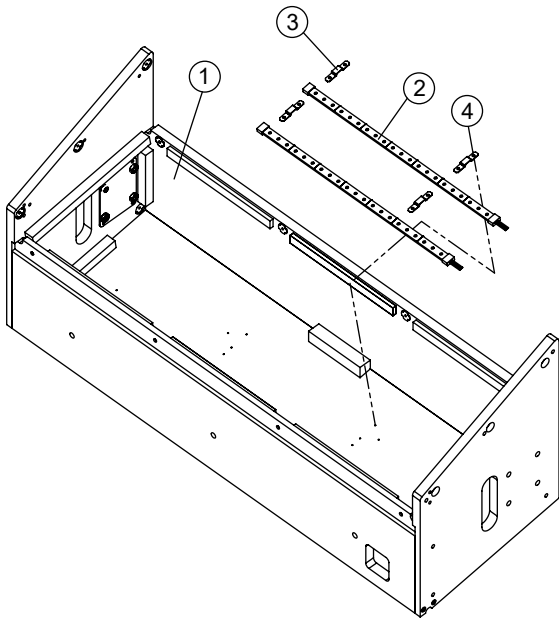
### OUTLET 2P ASSY



PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	F9009405	FRONT GUARD SHEET	1
2	E3104376	FRONT GUARD BRACKET-L	1
3	E3104377	FRONT GUARD BRACKET-R	1
4	E3104378	FRONT GUARD PLATE	2
5		BIND HD SCREW-(BLACK) M4X8	8
6	D2100228	SIDE BASE-L-(FRONT)	1
7	D2100230	SIDE BASE-R-(FRONT)	1
8		PLAIN WASHER 4.5X13X1.6T	8
9		FLANGE NUT M4	8
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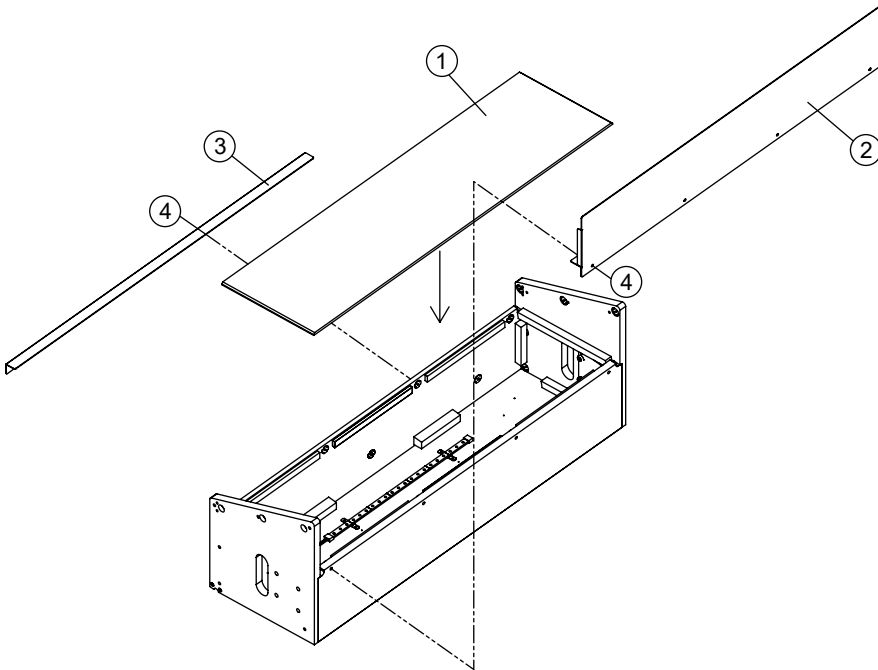
### FRONT GUARD SHEET ASSY

PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	D3000488	TITLE BOX KR	1
2	M1000762	TAPE LED-(LED WHITE) (L=350)-(ROHS)	2
3	E3020967	FLEX LED BRACKET-B	4
4		SELF-TAPPING SCREW M3X8	8
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	L9007278	TITLE HARNESS	1

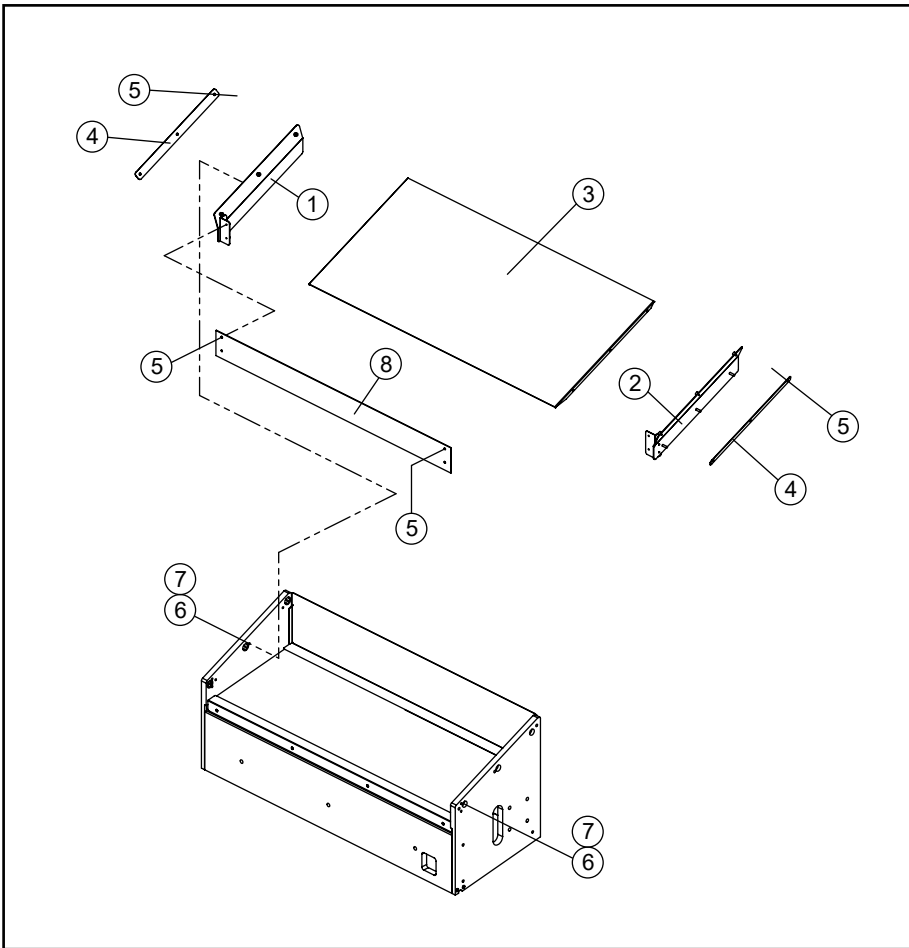


**TITLE BOX ASSY [1]**

PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	G4000391	TITLE PANEL_KR	1
2	E3104401	TITLE EAVES_KR	1
3	E3104399	TITLE BRACKET-(LOWER)	1
4		BIND HD SCREW-(BLACK) M4X16	8
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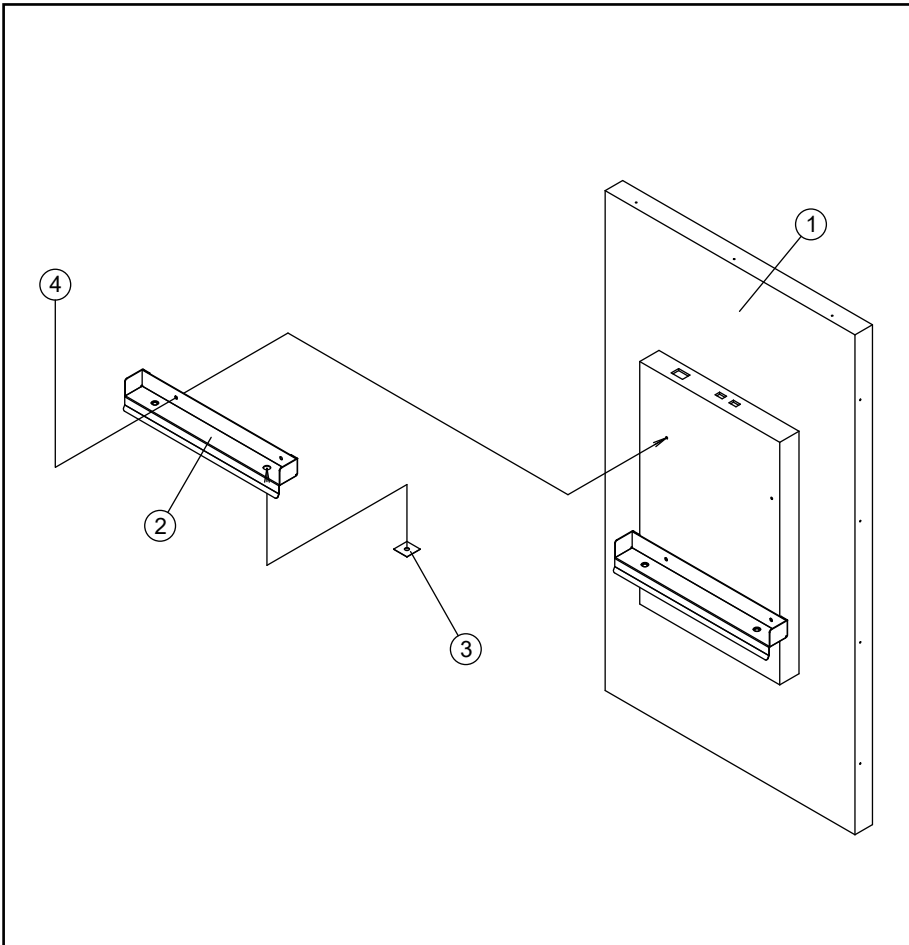


**TITLE BOX ASSY [2]**



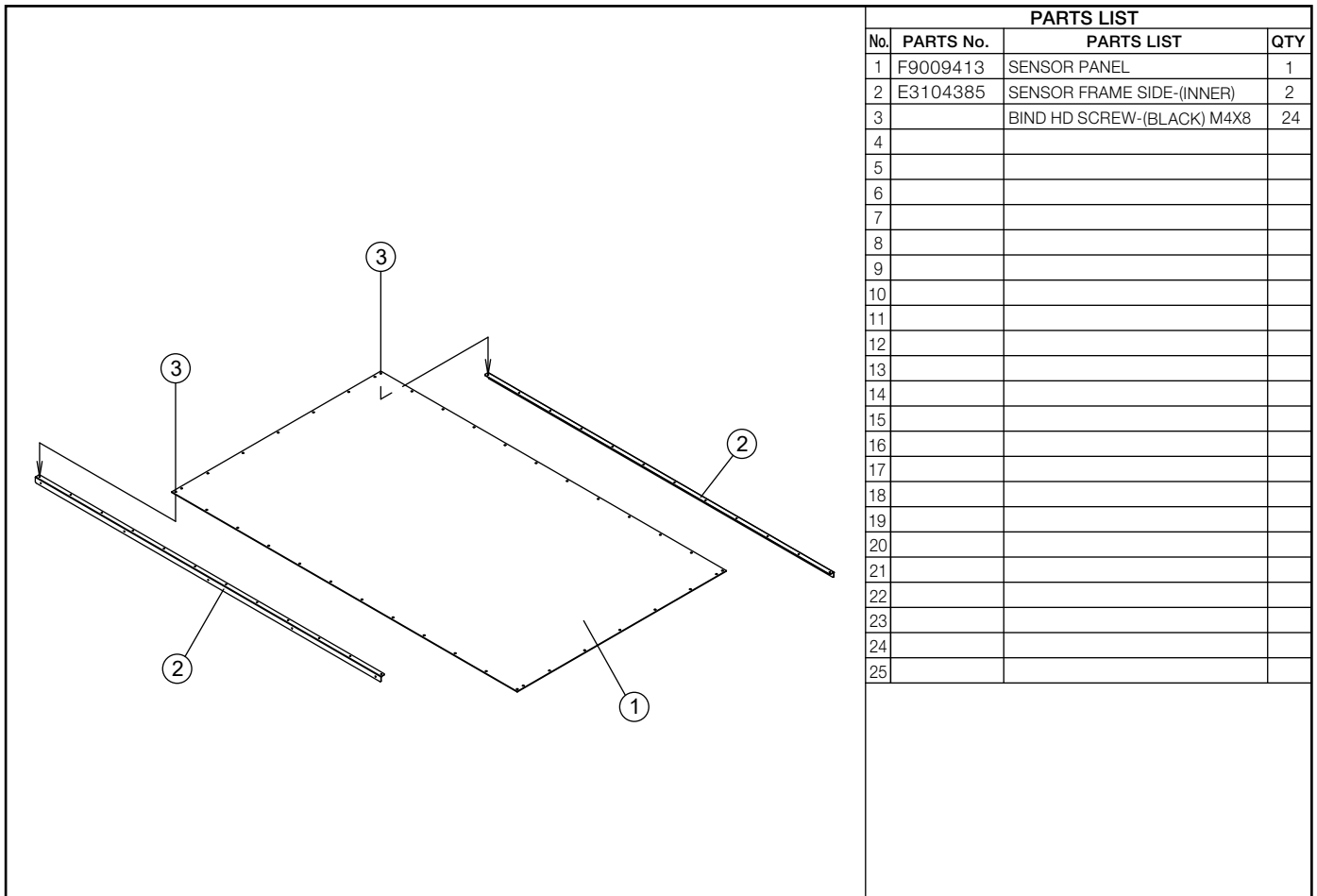
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3104395	TITLE BOX GUARD BRACKET-L	1
2	E3104396	TITLE BOX GUARD BRACKET-R	1
3	F9009419	TITLE BOX GUARD SHEET	1
4	E3104397	TITLE BOX GUARD PLATE	2
5		BIND HD SCREW-(BLACK) M4X8	10
6		PLAIN WASHER 4.5X13X1.6T	6
7		FLANGE NUT M4	6
8	F9009420	TITLE BOX UNDER GUARD SHEET	1
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**TITLE BOX ASSY [3]**



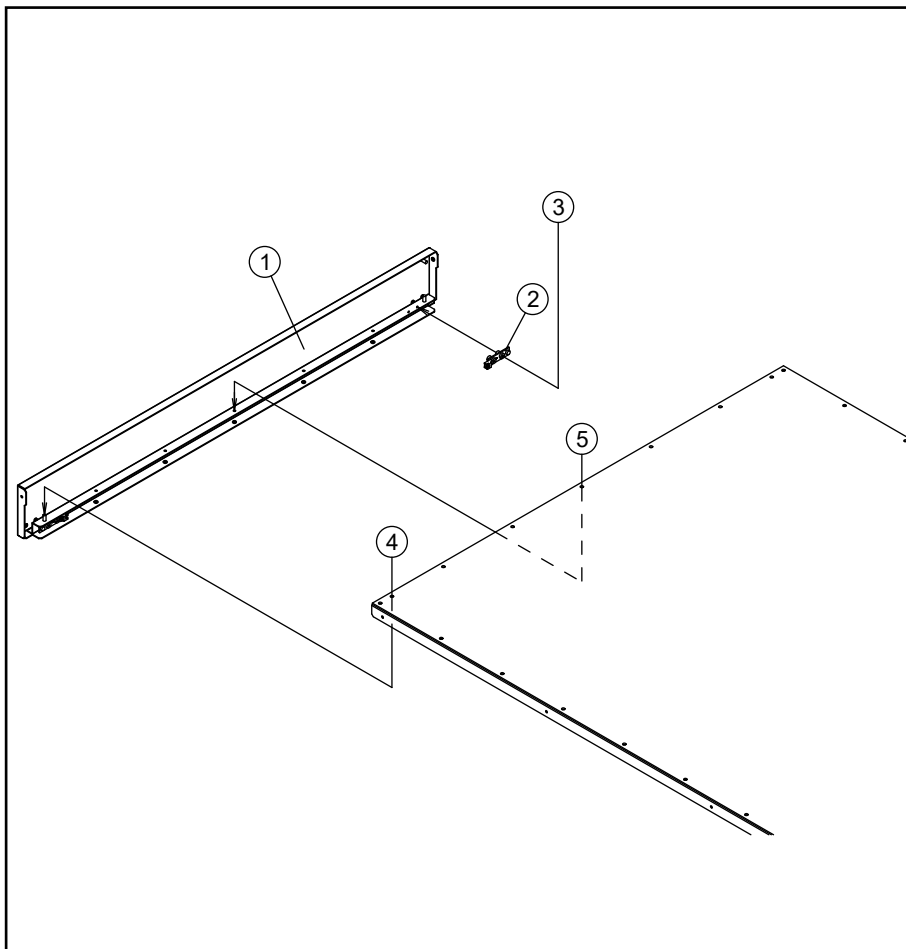
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	M1100129	LCD ASSY-(55INCH WIDE)-(ROHS) GP-550	1
2	E3021532	LCD BRACKET	2
3	F9009033	INSULATION SHEET-(LCD)	4
4		SEMUTH UPSET BOLT-W M6X16	4
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**MONITOR ASSY**



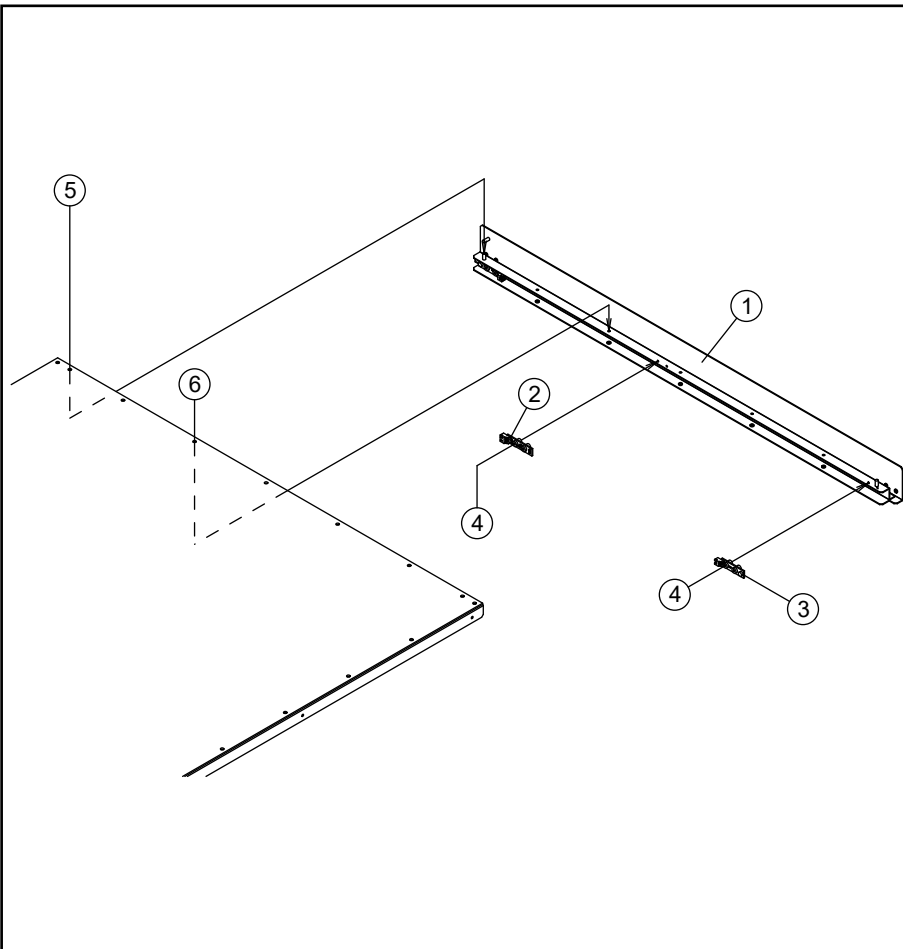
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	F9009413	SENSOR PANEL	1
2	E3104385	SENSOR FRAME SIDE-(INNER)	2
3		BIND HD SCREW-(BLACK) M4X8	24
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**SENSOR PANEL ASSY [1]**



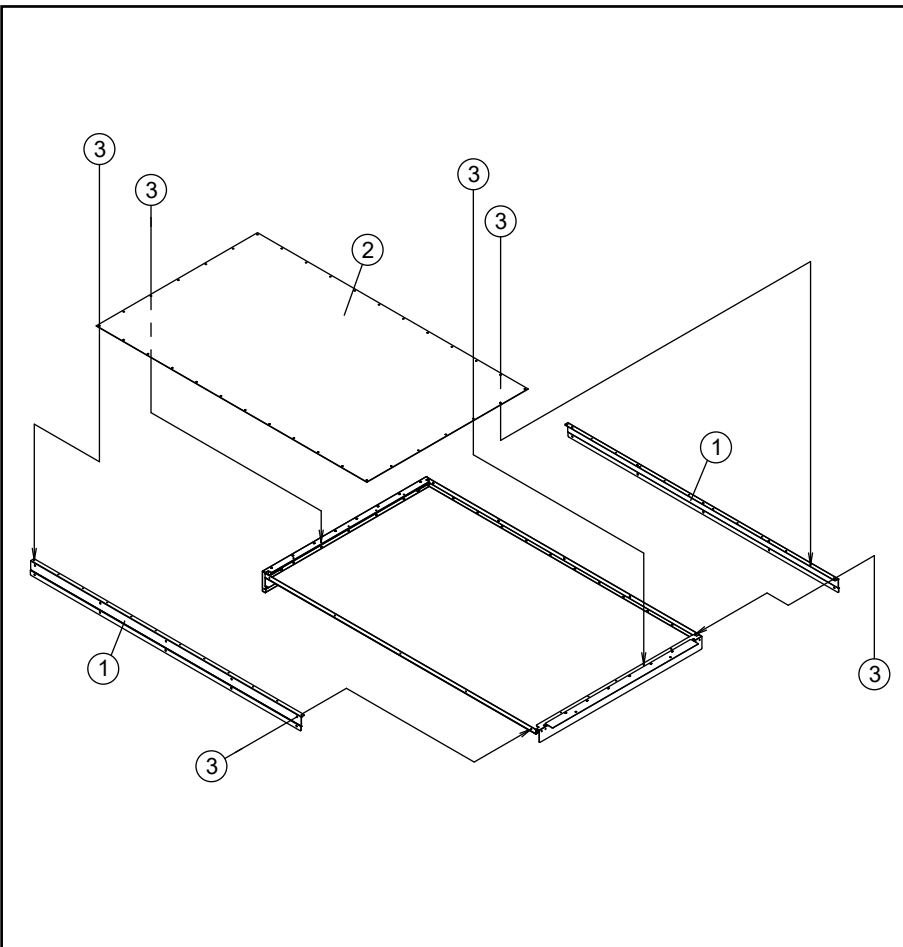
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3104388	SENSOR FRAME-(UPPER)	1
2	K9200362	M SENSOR P.C.B.ASSY-(1/8)-(ROHS)	2
3		BIND HD SCREW-(BLACK) M3X14	4
4		FLANGE NUT M4	2
5		BIND HD SCREW-(BLACK) M4X8	5
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	L9007280	UPPER HARNESS	1
	C1101489	FERRITE CORE-(ROHS) NFT-4B-20DK	2

**SENSOR PANEL ASSY [2]**



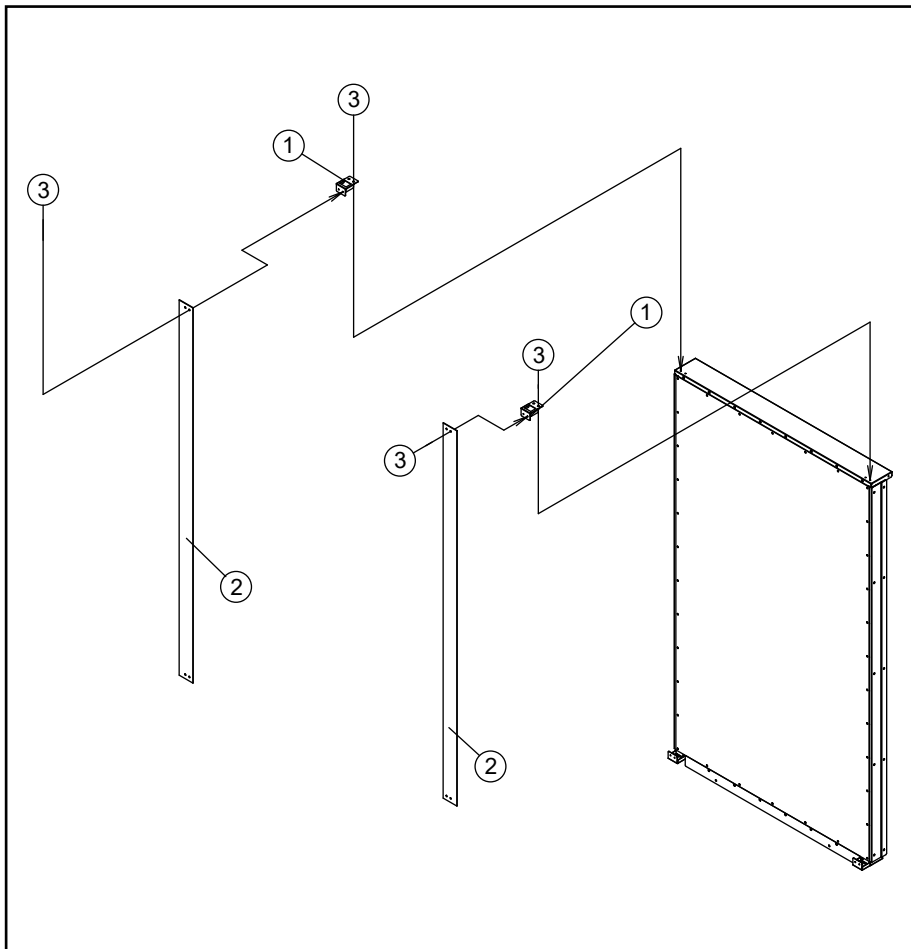
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3104387	SENSOR FRAME-(UNDER)	1
2	K9200363	T SENSOR P.C.B.ASSY-(1/8)-(ROHS)	1
3	K9200362	M SENSOR P.C.B.ASSY-(1/8)-(ROHS)	2
4		BIND HD SCREW-(BLACK) M3X14	6
5		FLANGE NUT M4	2
6		BIND HD SCREW-(BLACK) M4X8	5
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	L9007279	UNDER HARNESS	1
	C1101489	FERRITE CORE-(ROHS) NFT-4B-20DK	2
	C1101491	FERRITE CORE-(ROHS) NFT-6B-20DK	1

**SENSOR PANEL ASSY [3]**



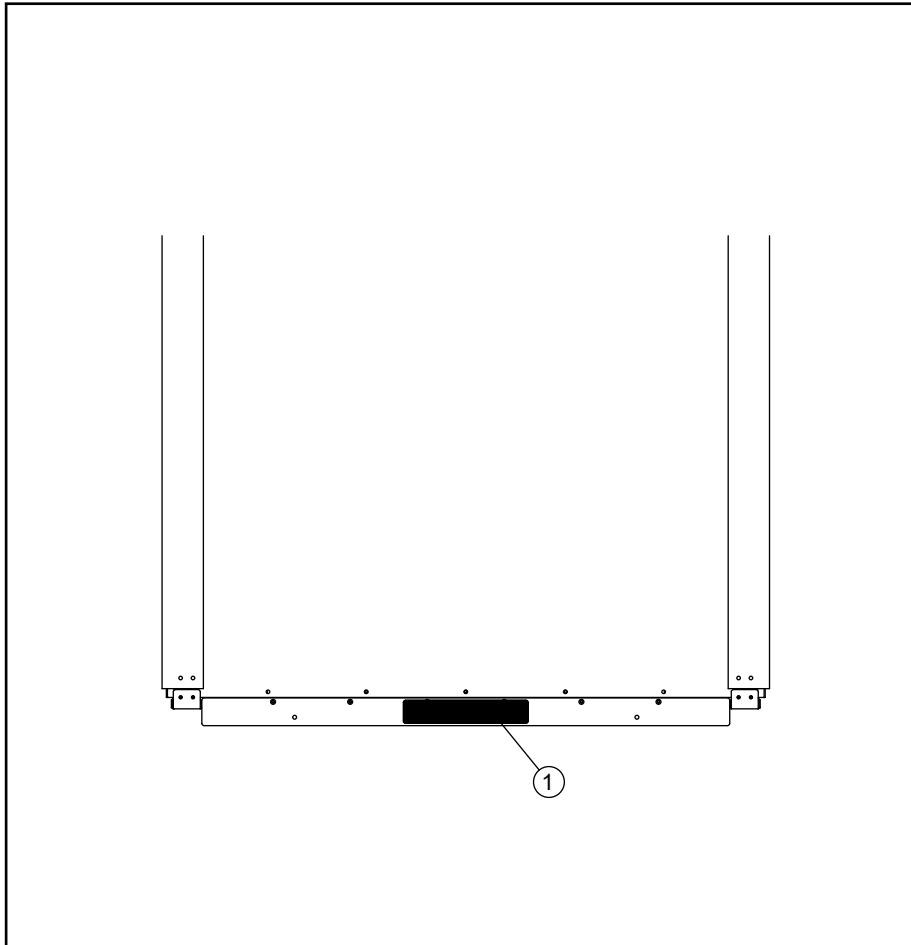
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3104386	SENSOR FRAME SIDE-(OUTER)	2
2	F9009414	SENSOR PANEL SHEET-(MAIN)	1
3		BIND HD SCREW-(BLACK) M4X8	44
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**SENSOR PANEL ASSY [4]**



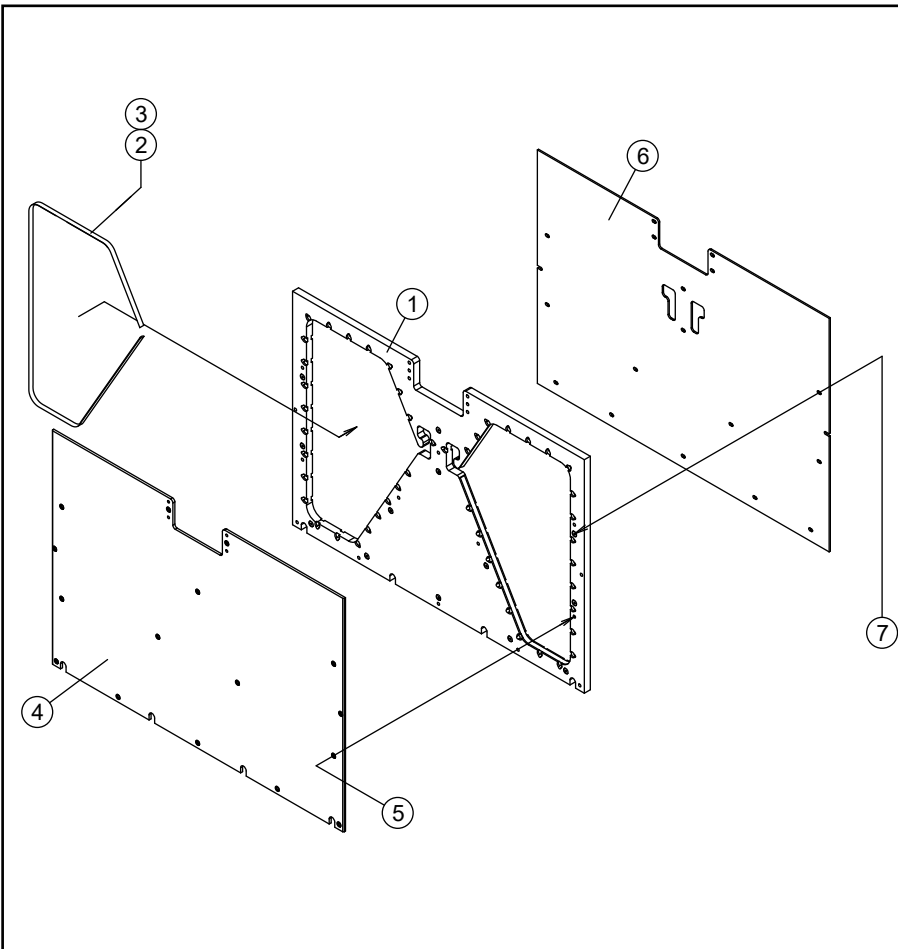
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3104383	SENSOR FRAME GUARD BRACKET	4
2	F9009415	SENSOR PANEL SHEET-(FRONT)	2
3		BIND HD SCREW-(BLACK) M4X8	16
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**SENSOR PANEL ASSY [5]**



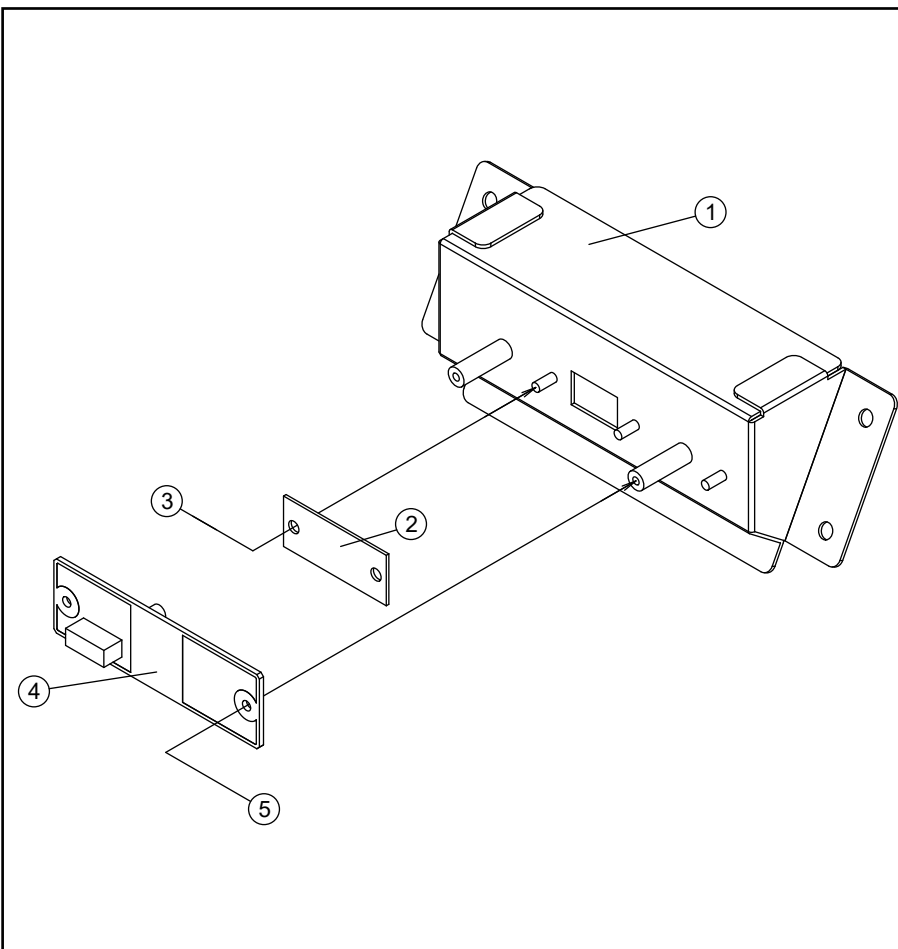
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	G1002826	CAUTION STICKER-(HIKARISIGEKI) LORD OF VERMILION 3	1
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**SENSOR PANEL ASSY [6]**



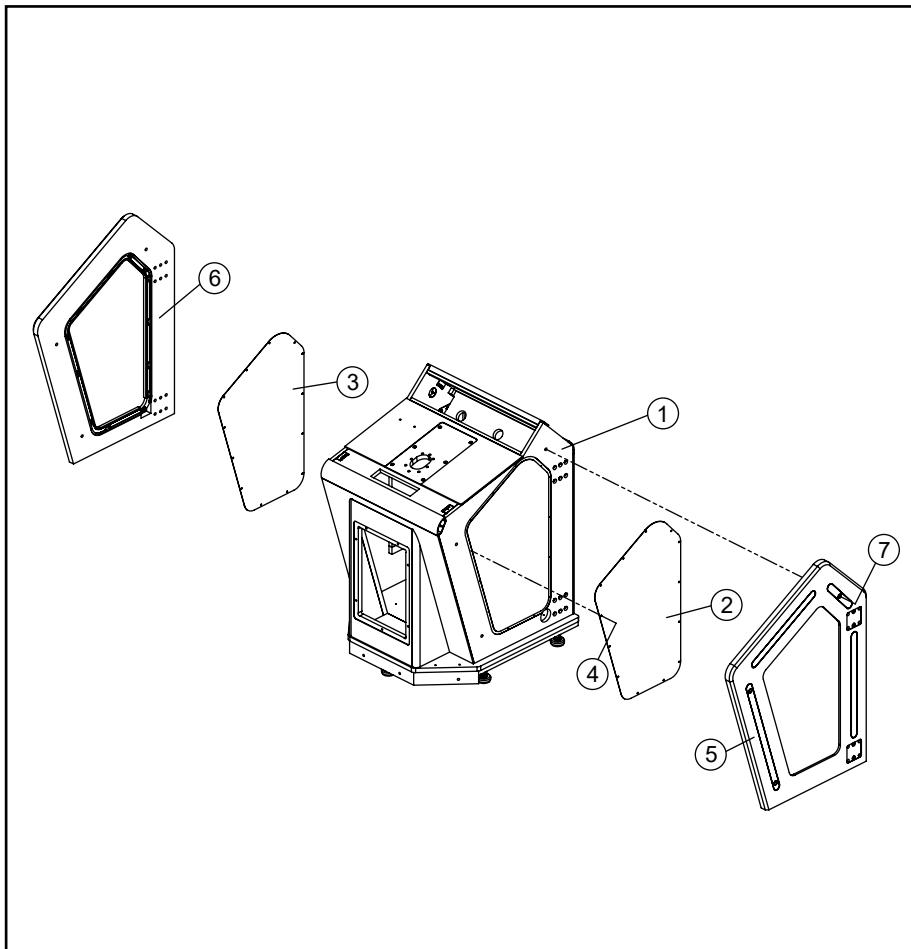
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	D2100227	FRONT LED BASE-(MIDDLE)	1
2	M1000763	TAPE LED-(LED FULL) (L=1200)-(CLEAR DOME)-(ROHS)	2
3	F0100121	CONVEX-(L=100)-(IVORY) AB100-IVY(L=100)	48
4	G9001498	FRONT LED PANEL-(FRONT) GUNARENA	1
5		SPECIAL LOW HD CAP BOLT-(BLACK) M4X16	14
6	G9001499	FRONT LED PANEL-(REAR) GUNARENA	1
7		BIND HD SCREW-(BLACK) M4X16	13
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	C1101493	FERRITE CORE-(ROHS) NFT-10B-20DK	2

## FRONT LED ASSY



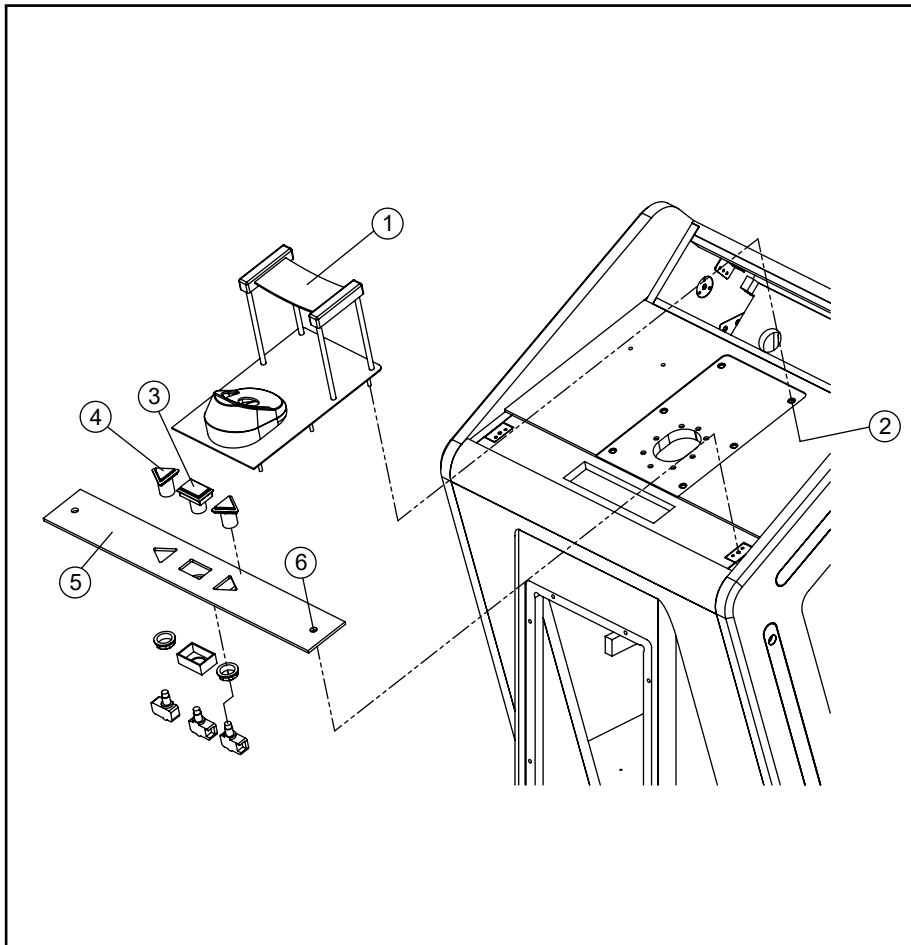
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3104380	IR PCB BASE	1
2	F9009408	IR PCB FILTER	1
3		FLANGE NUT M3	2
4	M1000756	SAFETY UNIT-(TRN_PCB)-(ROHS) UD-003-P002	1
5		PAN HD SEMUTH SCREW-W M3X8	2
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	L9007277	SAFETY HARNESS	1

## SAFETY ASSY



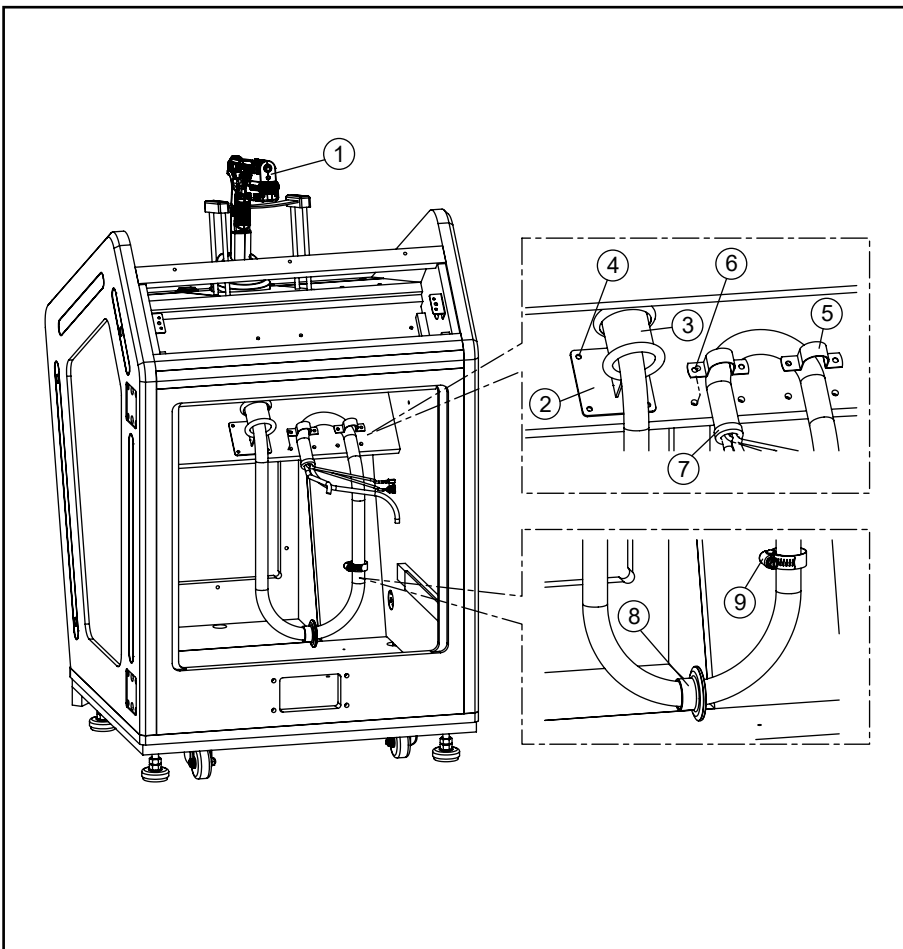
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	Y1002001	SHOOTING CABINET	1
2	Y1003002	SIDE PUNCHING PLATE RH	1
3	Y1004002	SIDE PUNCHING PLATE LH	1
4		SELF-TAPPING SCREW M3X8	26
5	Y1003001	FRONT SIDE WOOD BODY ASSY RH	1
6	Y1004001	FRONT SIDE WOOD BODY ASSY LH	1
7		ALLEN BOLT(SILVER) M6X50	14
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## SHOOTING CABINET ASSY [1]



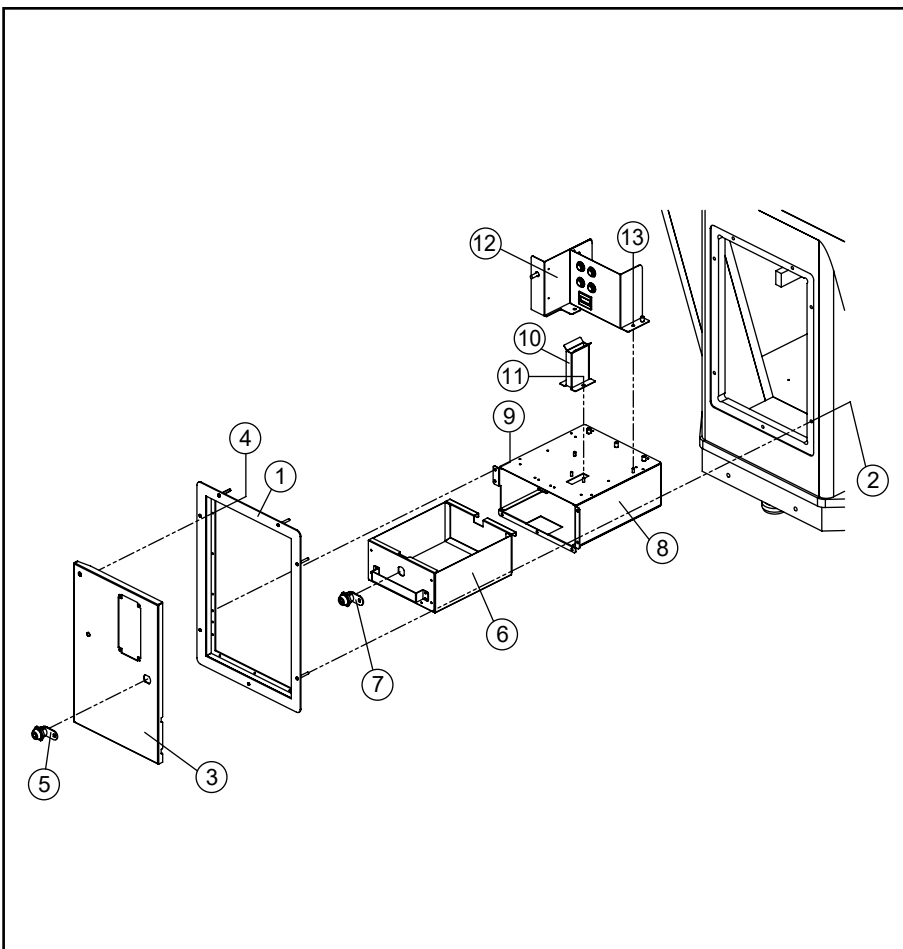
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	Y1004001	GUN CRADLE	1
2		FLANGE NUT M4	6
3	C0200812	LAMP SWITCH-(THIN TYPE)-ROHS OBSA-45UK-R-1F-LED-W-12V	1
4	C0200813	LAMP SWITCH-(THIN TYPE)-ROHS OBSA-30US-B-1F-LED-W-12V	2
5	F9009404	CONTROL PANEL_KR_GA	1
	F9009421	CONTROL PANEL_KR_OP	1
6		ALLEN BOLT(SILVER) M6X30	2
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## SHOOTING CABINET ASSY [2]



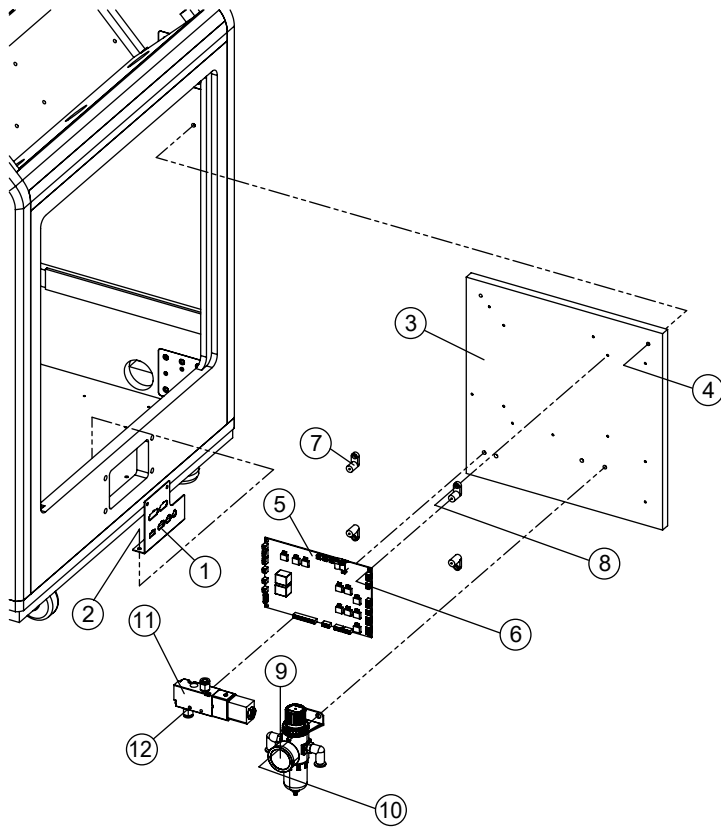
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	Y2001001	GUN DEVICE	1
2	Y1002051	BKT MOUNT HOSE GUN A	1
3	Y1002052	BKT MOUNT HOSE GUN B	1
4		BIND HD SCREW-(BLACK) M4X30	4
5		HOSE SADDLE	2
6		BIND HD SCREW-(BLACK) M4X30	4
7		HOSE INSERT	1
8		FERRULE	1
9		HOSE BAND 25mm	1
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### SHOOTING CABINET ASSY [3]



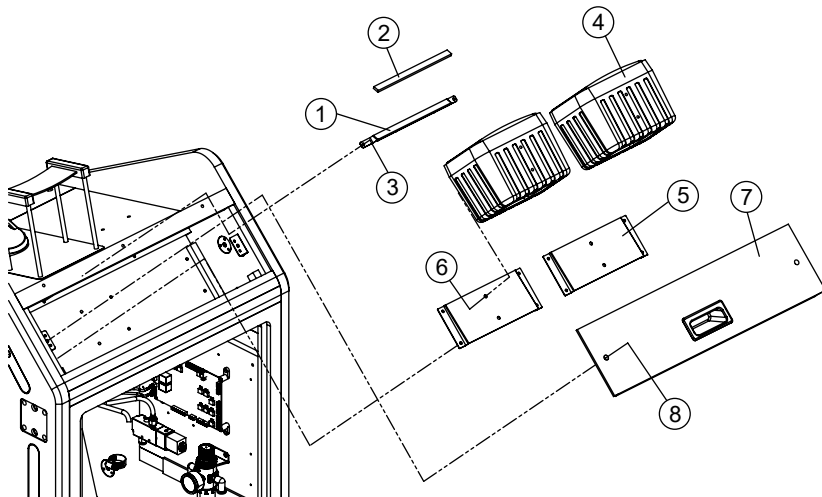
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3104404	COIN 1DOOR FRAME	1
	E3104405	1 BILL FRAME UGA KR	1
2		FLANGE NUT M4	7
	E5000701	COIN MC DOOR 1COIN UGA JPN	1
	E5000702	COIN MC DOOR 1COIN UGA EU	1
	E5000703	COIN MC DOOR 1COIN UGA USA	1
	E5000704	COIN MC DOOR 1 BILL UGA KR	1
3			
4		BIND HD SCREW-(BLACK) M4X8	3
5		CAM LOCK 7001	1
	E5000801	COIN BOX	1
	E5000802	COIN BOX UGA 1 BILL KR	1
6		CAM LOCK 6001	1
	E5000803	COIN BOX COVER UGA JPN	1
	E5000804	COIN BOX COVER 1 BILL UGA KR	1
7		BIND HD SCREW-(BLACK) M4X8	7
	F9006255	COIN GUIDE UGA JPN	1
	F9006256	COIN GUIDE UGA EU	1
	F9006257	COIN GUIDE UGA USA	1
	F9006258	BILL ACCEPTOR GUIDE UGA 1 BILL KR	1
8			
9			
10			
11		FLANGE NUT M4	2
12	M9009340	CENTRAL CONTROL ASSY	1
13		FLANGE NUT M4	2
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### SHOOTING CABINET ASSY [4]



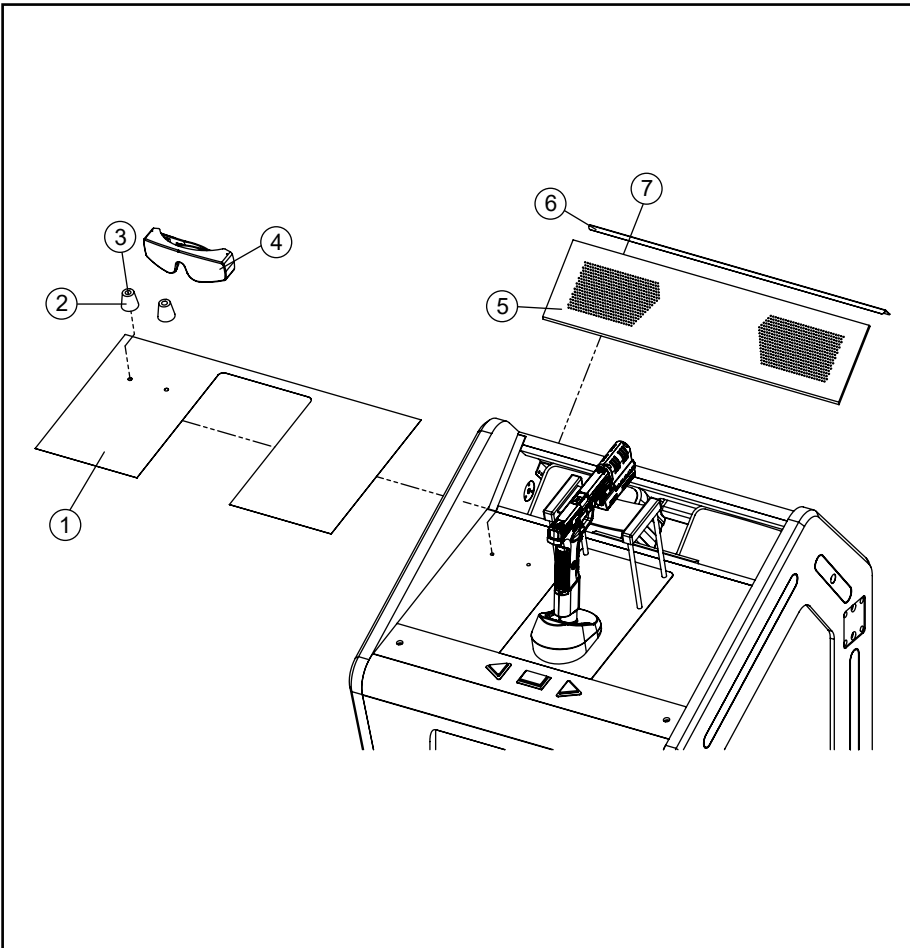
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3103996	BKT HARNESS F CABINET	1
2		SELF-TAPPING SCREW M3X8	4
3	Y1002021	GUN CINTROL PCB ASSY BASE	1
4		BIND HD SCREW-(BLACK) M4X30	4
5	Y1002022	GUN CINTROL PCB ASSY	1
6		BIND HD SCREW-(BLACK) M3X8	4
7		L LOCK	4
8		SELF-TAPPING SCREW M3X8	4
9		AIR REGULATOR	1
10		BIND HD SCREW-(BLACK) M3X8	2
11		SOLENOID_DS F352S	1
12		BIND HD SCREW-(BLACK) M4X40	2
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### SHOOTING CABINET ASSY [5]



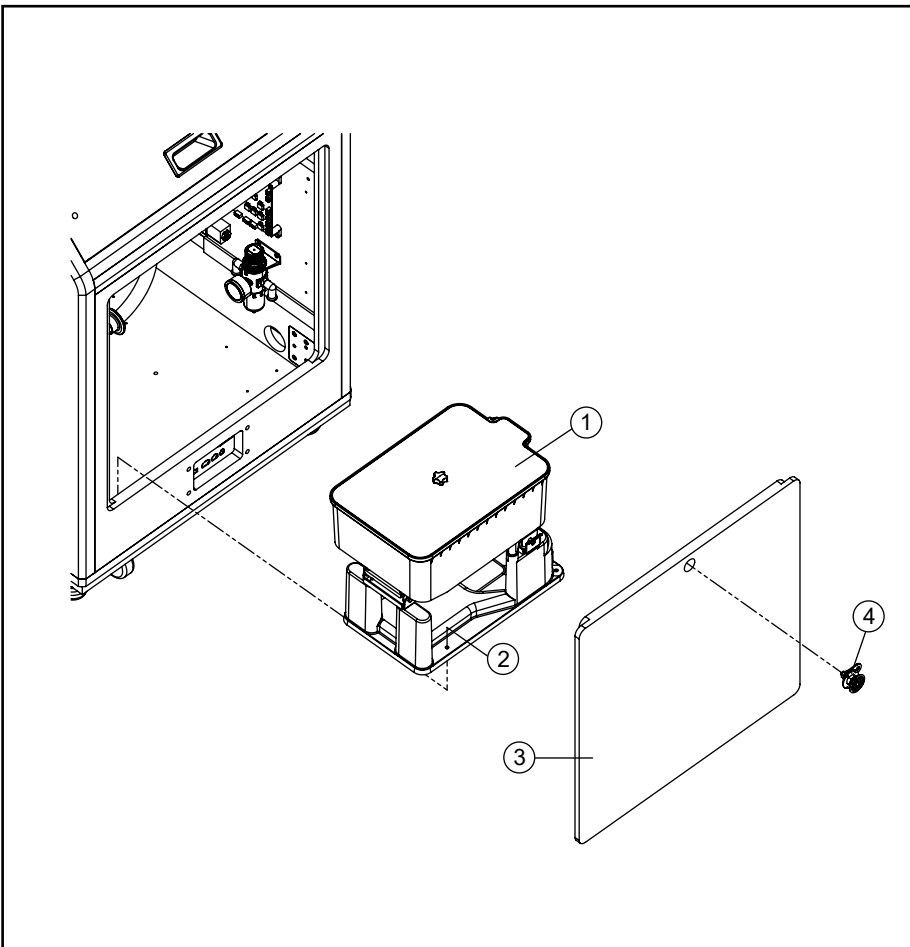
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	Y1002031	LED BAR BKT 200 F CABINET	1
2	Y1002032	TAPE LED 200	1
3		SELF-TAPPING SCREW M3X8	2
4	M1000630	SPEAKER UNIT-(ROHS) S00110HO 8Ω	2
5	Y1002033	BKT MOUNT SPEAKER JP	2
6		TROX SCREW M5X10	4
7	Y1002034	SERVICE DOOR SPEAKER	1
8		ALLEN BOLT SILVER M6X30	2
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### SHOOTING CABINET ASSY [6]



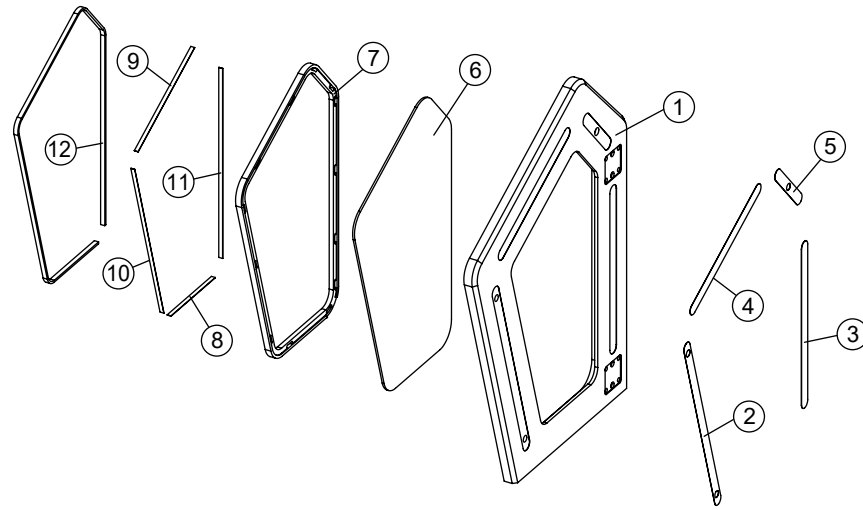
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	Y1002041	HOW TO PLAY_KR_GA	1
	Y1002042	HOW TO PLAY_KR_OP	1
2		RUBBER BUSHING	2
3		BIND HD SCREW-(BLACK) M4X30	2
4		GOGGLES	1
5	Y1004043	BILL BOARD PANEL_KR_GA	1
	Y1004044	BILL BOARD PANEL_KR_OP	1
6	Y1004045	BKT COVER BILLBOARD ACRYLIC	1
7		BIND HD SCREW-(BLACK) M4X30	3
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**SHOOTING CABINET ASSY [7]**



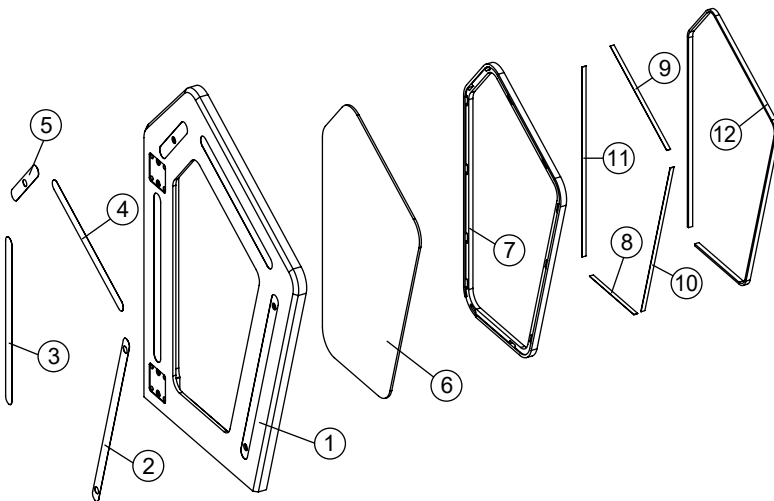
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	Y3002001	BB DISPENSER	1
2		BIND HD SCREW-(BLACK) M4X40	4
3	Y1002011	SERVICE DOOR FRONT CABINET	1
4		CAM LOCK 7001	1
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**SHOOTING CABINET ASSY [8]**



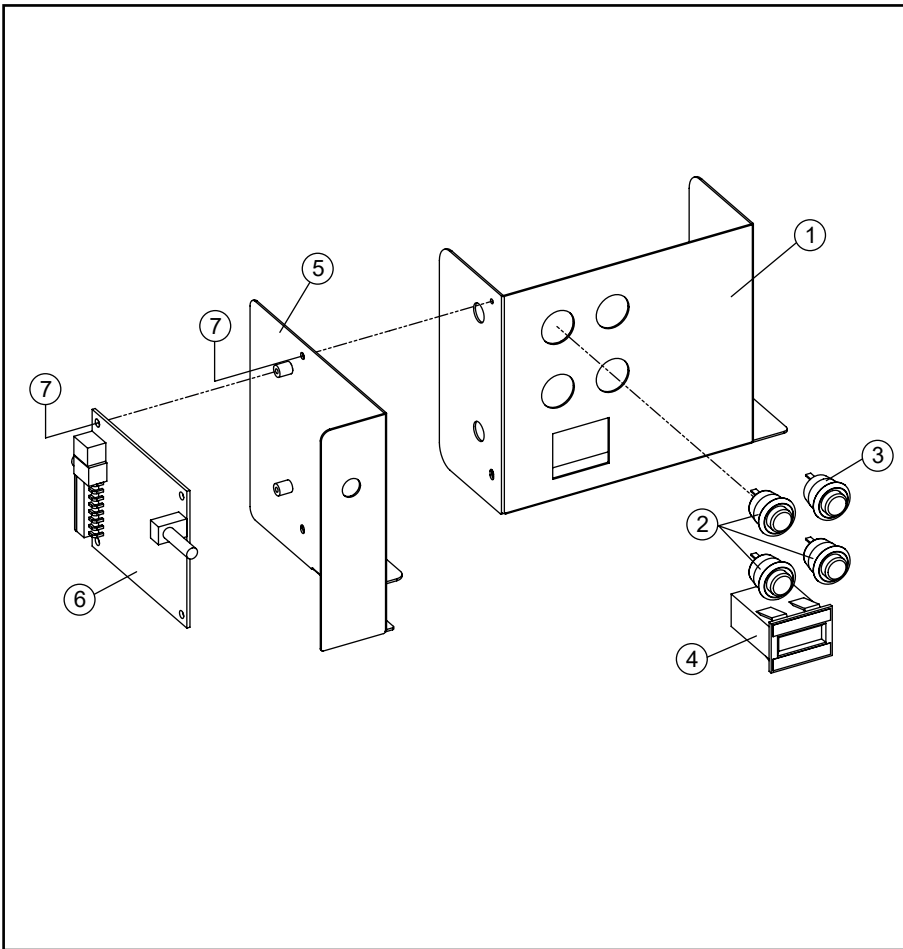
PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	Y1003011	FRONT SIDE WOOD BODY RH	1
2	Y1003012	SIDE STICKER A	1
3	Y1003013	SIDE STICKER B	1
4	Y1003014	SIDE STICKER C	1
5	Y1003015	SIDE STICKER D	1
6	Y1003016	SIDE LED PANEL RH_KR_GA	1
	Y1003017	SIDE LED PANEL RH_KR_OP	1
7	Y1003018	FRONT INNER FRAME LED	1
8	Y1003019	BKT MOUNT LED F SIDE A	1
9	Y1003020	BKT MOUNT LED F SIDE B	1
10	Y1003021	BKT MOUNT LED F SIDE C	1
11	Y1003022	BKT MOUNT LED F SIDE D	1
12	Y1003023	SIDE TAPE LED	1
13		CONVEX-(L=100)-(IVORY)AB100-IVY(L=100)	13
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## FRONT SIDE WOOD BODY ASSY RH



PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	Y1004011	FRONT SIDE WOOD BODY LH	1
2	Y1004012	SIDE STICKER A	1
3	Y1004013	SIDE STICKER B	1
4	Y1004014	SIDE STICKER C	1
5	Y1004015	SIDE STICKER D	1
6	Y1004016	SIDE LED PANEL LH_KR_GA	1
	Y1004017	SIDE LED PANEL LH_KR_OP	1
7	Y1004018	FRONT INNER FRAME LED	1
8	Y1004019	BKT MOUNT LED F SIDE A	1
9	Y1004020	BKT MOUNT LED F SIDE B	1
10	Y1004021	BKT MOUNT LED F SIDE C	1
11	Y1004022	BKT MOUNT LED F SIDE D	1
12	Y1004023	SIDE TAPE LED	1
13		CONVEX-(L=100)-(IVORY)AB100-IVY(L=100)	13
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## FRONT SIDE WOOD BODY ASSY LH

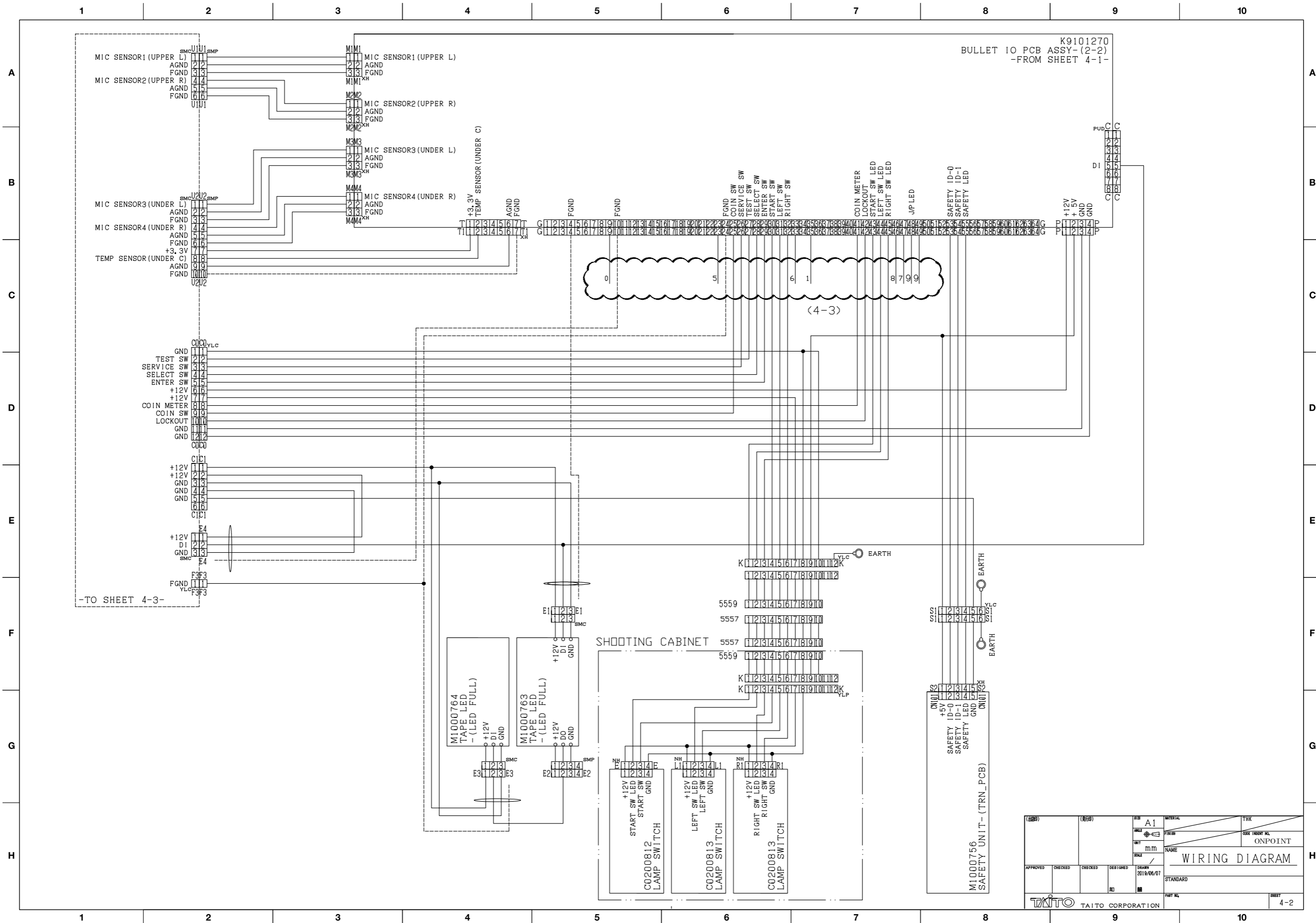


PARTS LIST			
No.	PARTS No.	PARTS LIST	QTY
1	E3021197	CENTRAL CONTROL BRACKET_KR	1
	E3021198	CENTRAL CONTROL BKT 1BILL KR	1
2	C0200313	PUSH SWITCH-2P-(ROHS) DS-412R	3
3	C0200627	PUSH SWITCH-2P-(ROHS) DS-412(WHITE)	1
4	C-1700070	COUNTER-(DC12V)-(PBF) FX-06P0A8 12VDC	1
5	E3021195	AMP BRACKET_KR	1
6	K92X0343	OPTICAL VR AMP P.C.B.ASSY-(12)-(ROHS) PUZZLE & DRAGONS	1
7		PAN HD SEMUTH SCREW-W M3X8	6
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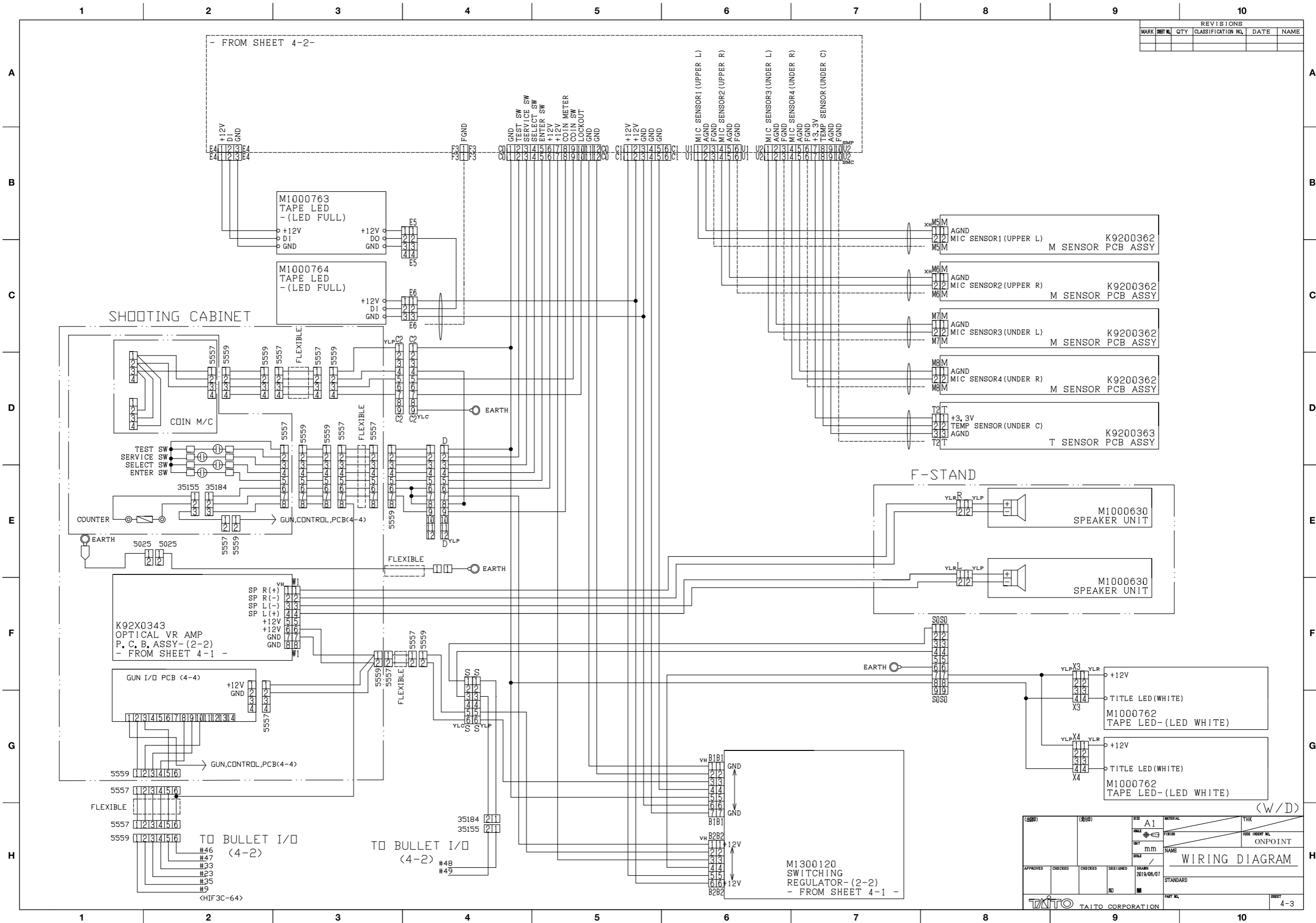
**CENTRAL CONTROL ASSY**

# Wiring Diagram





(JOB)	(JOB)	REV	A1	DATE	2019/06/07	SCALE	1:1	DESIGNED		DRAWN		STANDARD		PART NO.		SHEET	4-2																	
		CHKD		CHKD		CHKD		CHKD		CHKD		CHKD		CHKD		CHKD																		
<table border="1"> <tr> <td>APPROVED</td> <td>CHECKED</td> <td>CHECKED</td> <td>DESIGNED</td> <td>DATE</td> <td>2019/06/07</td> <td>SCALE</td> <td>1:1</td> <td>DESIGNED</td> <td></td> <td>DRAWN</td> <td></td> <td>STANDARD</td> <td></td> <td>PART NO.</td> <td></td> <td>SHEET</td> <td>4-2</td> </tr> </table>																	APPROVED	CHECKED	CHECKED	DESIGNED	DATE	2019/06/07	SCALE	1:1	DESIGNED		DRAWN		STANDARD		PART NO.		SHEET	4-2
APPROVED	CHECKED	CHECKED	DESIGNED	DATE	2019/06/07	SCALE	1:1	DESIGNED		DRAWN		STANDARD		PART NO.		SHEET	4-2																	



REVISIONS					
MARK	REF. NO.	QTY	CLASSIFICATION NO.	DATE	NAME

APPROVED	CHECKED	CHECKED	DESIGNED	DATE	2019/06/07
STANDARD					
TALTO CORPORATION					4-3



# Technical Support

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Inquiries regarding this machine, ordering parts and repair, please contact below.





