

# OWNER'S MANUAL



初音ミク Project DIVA Arcade Future Tone

OWNER'S MANUAL

420-7463-01



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## IMPORTANT

- Before using this product, read this manual carefully to understand the contents herein stated.
- After reading this manual, be sure to keep it near the product or in a convenient place for easy reference when necessary.

# INTRODUCTION

This manual is intended to provide detailed descriptions together with all the necessary information covering the general operation of electronic assemblies, electro-mechanicals, servicing control, spare parts, etc. for the product, "**初音ミク Project DIVA Arcade Future Tone.**"

This manual is intended for the owners, personnel and managers in charge of operation of the product. Operate the product after carefully reading and sufficiently understanding the instructions.

This manual has been written with care and attention. In the event that you cannot carry out the work in accordance with the instructions provided in this manual, or, if you cannot achieve normal functioning of the product, contact the office listed in this manual or the point-of-purchase for this product.

Do not touch the internal system unless you are a technician.

If the product is relocated or resold, ensure that it is accompanied by this manual.

## NOTES:

- *Descriptions herein contained may be subject to improvement changes without notice.*
- *The contents described herein are fully prepared with due care. However, should any question arise or errors be found, please contact SEGA.*

## DESCRIPTION OF WARNING DISPLAYS

To ensure the safe operation of this product, be sure to read the following before usage.

After carefully reading and sufficiently understanding the warning displays and cautions, handle the product appropriately.

Depending on the potentially hazardous degrees, the terms of DANGER, WARNING, CAUTION, etc. are used. Be sure to understand the contents of the displays before reading the text.

 <b>DANGER</b>	Indicates that mishandling the product by disregarding this pictograph will cause severe injury or death.
 <b>WARNING</b>	Indicates that mishandling the product by disregarding this warning will cause a potentially hazardous situation which can result in death or serious injury.
 <b>CAUTION</b>	Indicates that mishandling the product by disregarding this caution will cause a slight hazardous situation which can result in personal injury and/or material damage.

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

	"Caution: Electric shock" Indicates a risk of electric shock under specific conditions.
	"Caution: High temperature" Indicates a risk of injury due to high temperature under specific conditions.
	"Caution: Risk of trapping hands/fingers" Indicates a risk of injury caused by trapping hands or fingers in doors, etc.
	"Forbidden" Indicates something you must not do when handling the product.
	Indicates a "protective earth terminal." Before operating the equipment, be sure to connect it to the ground.

Use of this product is unlikely to cause physical injuries or damage to property. However, points that require special attention are indicated by bold text, the word "IMPORTANT" and the symbol below.

	Indicates an important detail when installing, operating, or maintaining/inspecting the product.
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## Definition of 'Site Maintenance Personnel or Other Qualified Individuals'

### **WARNING**

**Procedures not described in this manual or marked as 'to be carried out by site maintenance personnel or other qualified professionals' should not be carried out by personnel without the required knowledge and technical expertise. Work carried out by unqualified persons may cause serious accidents, including electrocution. If there is no one with the required knowledge and technical expertise available, for the sake of safety, commission the work to the office listed in this manual or the point-of-purchase for this product.**

Parts replacement, maintenance inspections and troubleshooting should be carried out by site maintenance personnel or other qualified professionals. This manual includes directions for potentially dangerous procedures which should only be carried out by professionals with the appropriate specialized knowledge.

The site maintenance personnel or other qualified professionals mentioned in this manual are defined as follows:

#### **Site maintenance personnel:**

Individuals with experience in maintaining amusement equipment, vending machines, etc., working under the supervision of the owner/operator of this product to maintain machines within amusement facilities or similar premises by carrying out everyday procedures such as assembly, maintenance inspections, and replacement of units/expendable parts.

#### **Activities to be carried out by site maintenance personnel:**

Amusement equipment/vending machine assembly, maintenance inspection and replacement of units/expendable parts.

#### **Other qualified professionals:**

Persons employed by amusement equipment manufacturers, or involved in design, production, testing or maintenance of amusement equipment. The individual should have either graduated from technical school or hold similar qualifications in electrical/electronics/mechanical engineering.

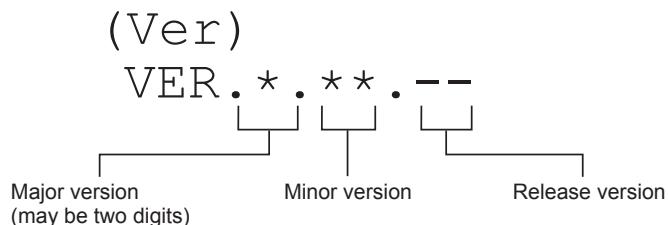
#### **Activities to be carried out by other qualified professionals:**

Amusement equipment/vending machine assembly, repair/adjustment of electrical/electronic/mechanical parts.

## NOTATION USED IN THIS MANUAL

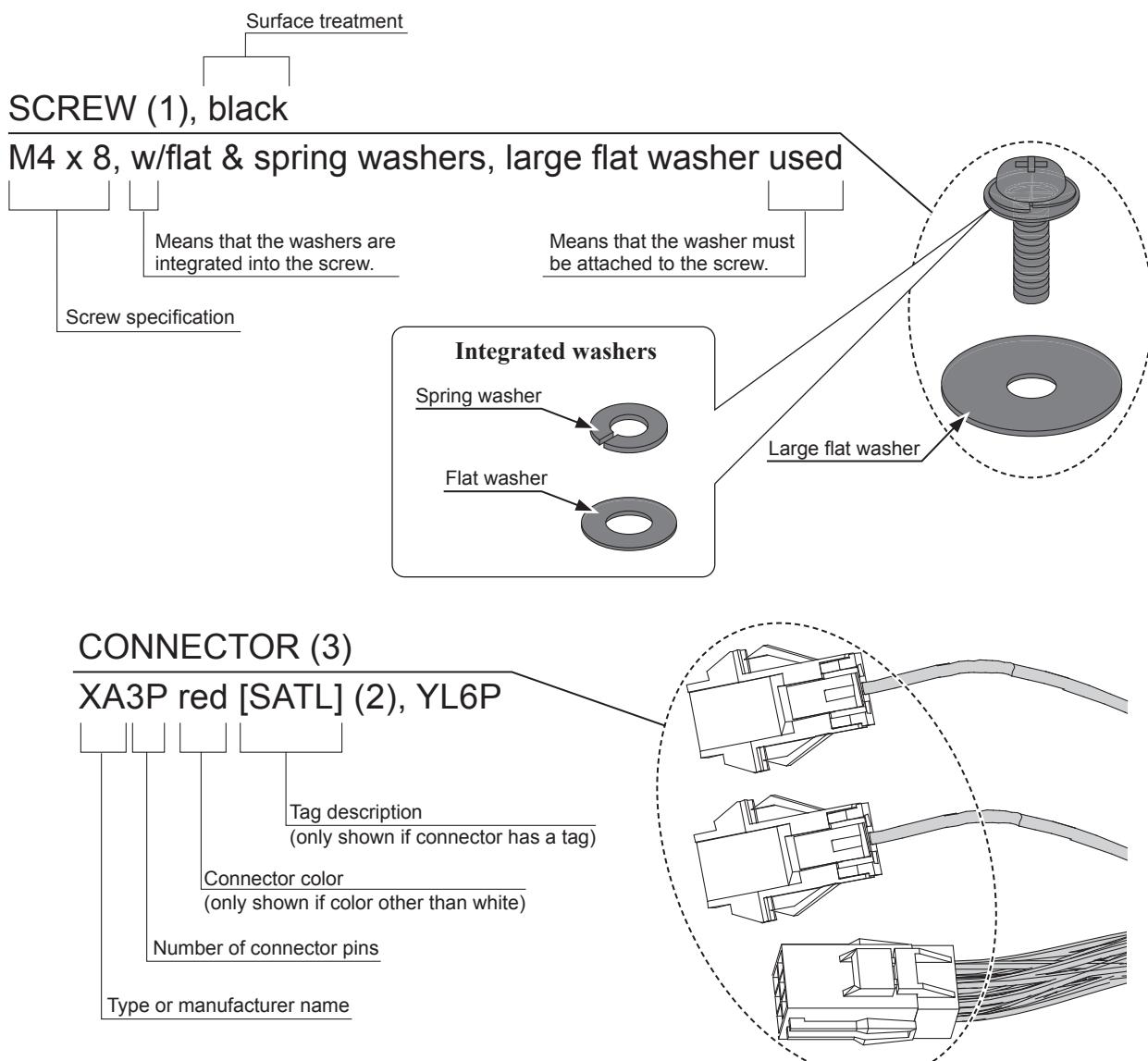
### GAME VERSION NOTATION

Version numbers appearing in TEST MODE are indicated by the asterisks below. When describing software version upgrades, only major version and minor version numbers are shown. Release version numbers are for SEGA's administrative use only. If you require these numbers, contact the office listed in this manual.



### NOTATION IN DIAGRAMS

Information regarding fasteners (screws, nuts, washers, etc.) and connectors is shown in the diagrams in this manual as follows.



## ABOUT THE KEY CHIP

### KEY CHIP SERIAL NUMBER

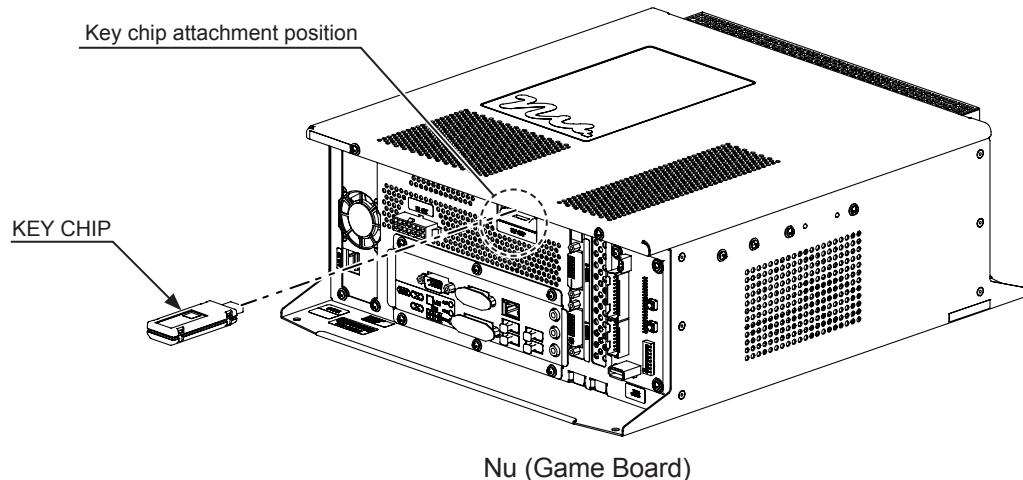
The key chip has a serial number written on it that is necessary when making inquiries about ALL.Net.



KEY CHIP STICKER

### KEY CHIP ATTACHMENT POSITION

The key chip attachment position is as shown in the diagram below.



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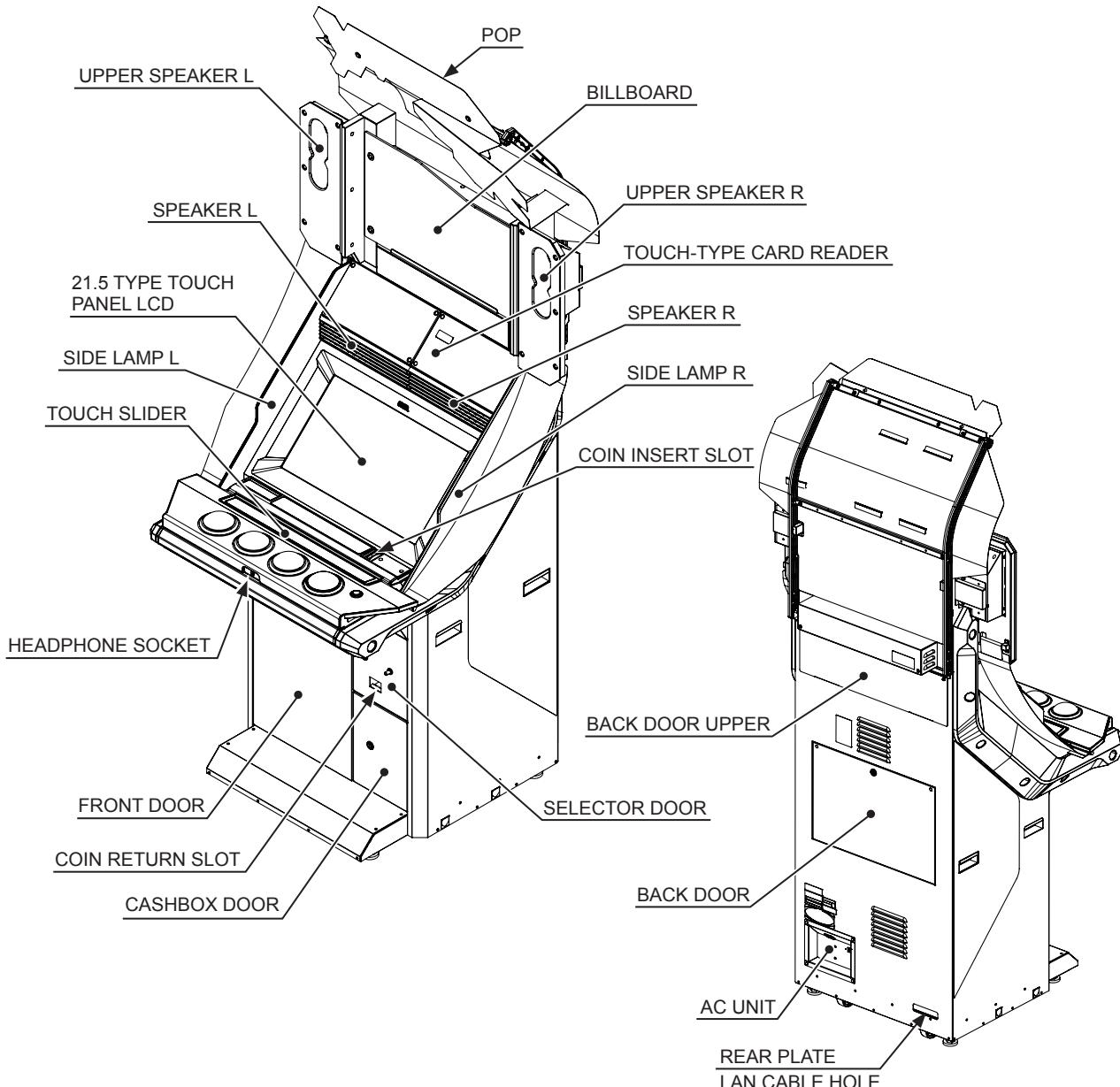
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# 1 PRODUCT SPECIFICATIONS

## 1-1 SPECIFICATIONS AND PART NAMES

### SPECIFICATIONS

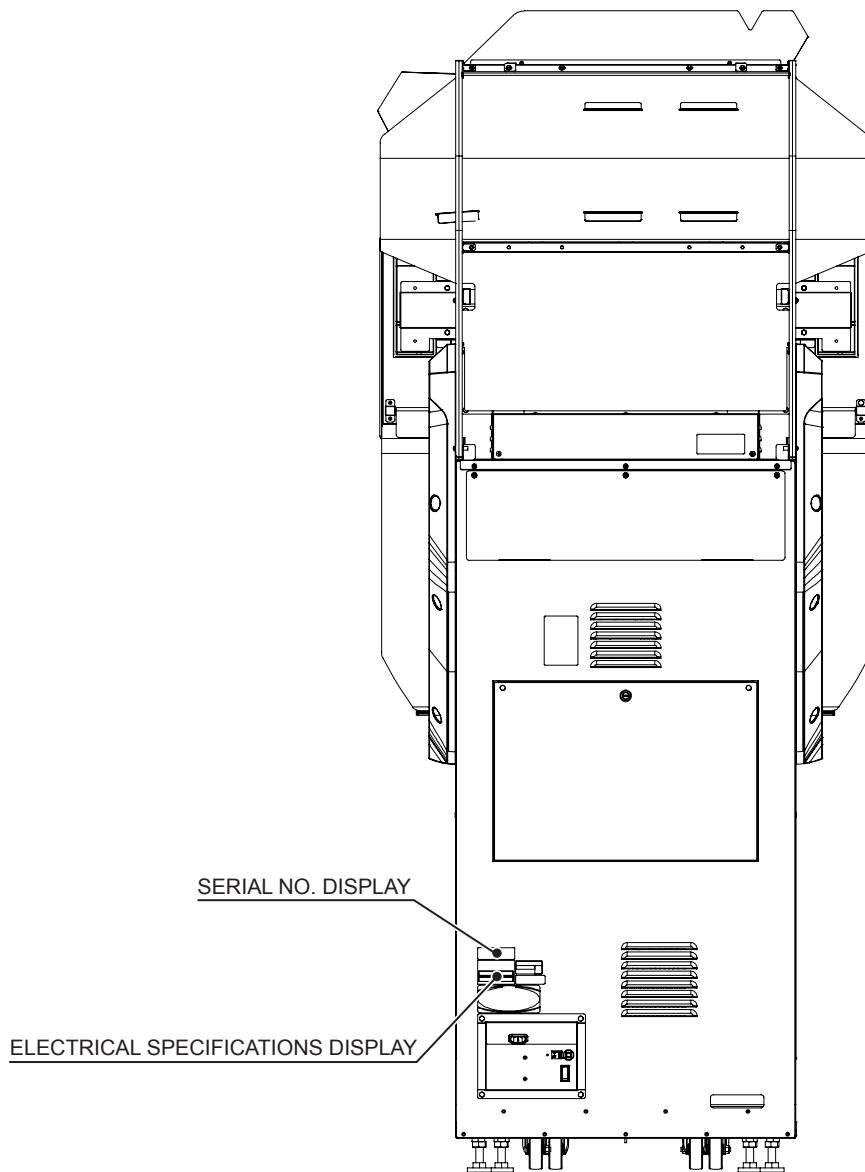
<b>Installation space</b>	930 mm (36.6 in) [Width] x 865 mm (34.1 in) [Depth] <Without billboard: 790 mm (31.1 in) [Width] x 800 mm (31.5 in) [Depth]>
<b>Height</b>	2,190 mm (86.2 in) <Without POP: 1,795 mm (70.7 in), without billboard: 1,560 mm (61.4 in)>
<b>Weight</b>	136 kg (299.8 lb)
<b>Power, maximum current</b>	193 W, 2.72 A (AC 100 V, 50/60 Hz Area)
	238 W, 2.3 A (AC 120 V, 60 Hz Area)
	229 W, 1.2 A (AC 220 V, 60 Hz Area)
<b>Power, Current</b>	223 W, 2.6 A (Max.) (AC 110 V, 60 Hz Area: Taiwan)
	165 W, 1.8 A (Min.) (AC 110 V, 60 Hz Area: Taiwan)



## 1-2 THE SERIAL NO. AND THE ELECTRICAL SPECIFICATIONS DISPLAYS

1

The product manufacturing number (serial number) and electrical specifications for this product are listed on the product. The serial number indicates the product registration. Identical machine types may have different parts depending on the date of production. When making inquiries, be sure to note the serial number and model name before contacting the office listed in this manual.



## 2 HANDLING PRECAUTIONS

### WARNING

2

- Proceed with checks and tasks as indicated in these instructions. If instructions are not followed, or if tasks and/or checks are neglected, an electric shock or other very serious accident, even fatal accident, can occur. Also, customers could be injured while operating the product.
- Before starting work, be sure to turn the power off. Working without turning the power off can cause an electric shock, short circuit or fire. In the case work should be performed in the status of power on, this manual always states to that effect.
- To avoid an electric shock or short circuit, do not plug in or unplug quickly.
- To avoid an electric shock, do not plug in or unplug with a wet hand.
- Do not leave power cable, earth cables, or network cables exposed in areas of heavy foot traffic. Doing so may cause them to become damaged, possibly resulting in electric shock and/or short circuits. When laying wiring across the floor, always use safety covers to protect the cables.
- To avoid causing a fire or an electric shock, do not put things on or damage the power cables.
- When or after installing the product, do not unnecessarily pull the power cable. If damaged, the power cable can cause an electric shock, short circuit or fire.
- In case the power cable is damaged, ask for a replacement through the office listed in this manual or the point-of-purchase for this product. Using the cable as is damaged can cause fire, an electric shock or leakage.
- Be sure to perform grounding appropriately. Inappropriate grounding can cause an electric shock.
- When inserting or removing a connector, be sure to hold it by its main part. If you hold it by anything else while doing so, the connections between cable and connector terminal fixtures could be damaged; and there could be an electric shock, short circuit or fire. There could also be poor connectivity.
- Be careful with the direction when connecting connectors. The connector must be connected in the proper direction. If it is connected in the wrong direction or indiscriminately at an incline so that a load is applied, the connector or its terminal pins could break, causing an electric shock, short circuit or fire.
- Be careful not to damage the cables. Damaged cables may cause an electric shock, short circuit or fire.
- Do not twist or pull the wiring. Damaged wiring may cause breakdowns or fires.
- Do not touch undesignated places. Touching places not designated can cause an electric shock, short circuit or fire.
- Be careful not to lose any fasteners (screws, nuts, or washers) during work. A metallic fastener dropped on an electrified section may cause an electric shock, short circuit or fire.

**⚠ WARNING**

- Do not use fasteners (screws, nuts, or washers) that are warped or broken. Replace these fasteners with the fasteners designated in this manual. Also, only use fasteners designated in this manual if any fasteners are lost. Using fasteners other than those designated may result in accidents such as components falling off.
- Specification changes (addition or conversion of equipment) not designated by SEGA are not permitted.
  - Failure to observe this may cause an electric shock or fire.
  - Non-compliance with this instruction can affect the health of the players or the onlookers during play.
  - SEGA shall not be held responsible for damage, including compensation for damage to a third party, caused by specification changes not designated by SEGA.
- Performing work or parts replacements not described in this manual could result in accidents. If you need to perform any work not described in this manual, request work from the office listed in this manual or the point-of-purchase for this product, or inquire for details.
- Be sure to perform the periodic maintenance inspections listed in this manual.

**⚠ CAUTION**

- Wear appropriate work clothing so that work can be performed safely. Use gloves and safety shoes to prevent accidents or injuries.
- When opening/closing or attaching/removing doors or other parts, be careful that your hands or fingers do not get caught in anything.
- Due to the tight working space inside the cabinet, there is a risk of injury from sharp corners or protruding parts. Be sure to check the surrounding area before carrying out any work.
- Be careful in handling glass/plastic parts. If such parts are exposed to excessive loads or impact, they might become damaged, resulting in fragments or cracks that could cause accidental injury.
- When fastening glass/plastic parts, be careful not to tighten screws and nuts excessively. Failure to observe this may damage the parts and cause injury due to fragments resulting from damage.
- Be careful when handling parts made of glass. Do not lean them up against the wall or subject them to impact. If they break, resulting in fragment or cracks that could cause accidental injury.



## IMPORTANT

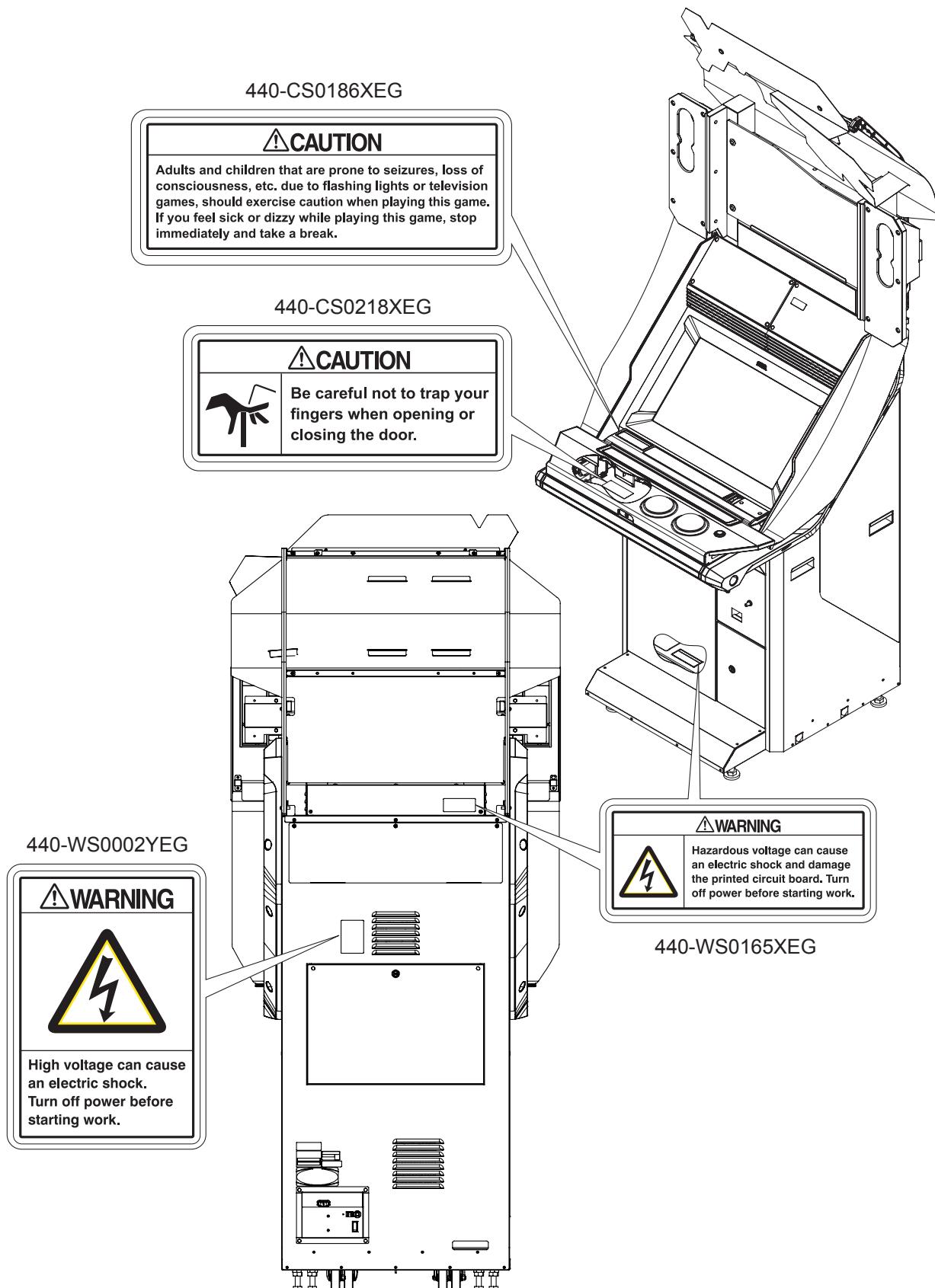
2

- When performing periodic maintenance or parts replacement, be sure to have the required tools and equipment on hand and consult the applicable section of this manual before carrying out work.
- Do not perform circuit inspections on the IC board. Failure to use the specified measuring device or apparatus may result in damage to the board.
- Static electricity from your body may damage some electronics devices on the IC board. Before handling the IC board, touch a grounded metallic surface so that the static electricity can be discharged.
- Some parts are not designed and manufactured specifically for this game machine. The manufacturers may discontinue, or change the specifications of such general-purpose parts. If this is the case, SEGA cannot repair or replace a failed game machine whether or not a warranty period has expired.
- Do not repeatedly turn the power ON/OFF in a short period of time. Doing so may result in breakdown or parts damage.
- Be careful not to drop removed fasteners (screws, nuts, washers) inside the cabinet. Doing so may result in breakdown or parts damage.
- This product uses an LCD. LCD screens scratch easily, so be careful when cleaning the screen. (See Chapter 13.)

## CONCERNING WARNING DISPLAYS

The cabinet has warning displays intended for accident prevention for customers, and for avoiding hazardous situations relating to maintenance work.

When a warning display becomes unreadable due to dirt or damage, be sure to exchange it for a new, replacement warning display.



### 3 PRECAUTIONS REGARDING INSTALLATION LOCATION

#### WARNING

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

- Places subject to rain or water leakage, or places subject to high humidity in the proximity of an indoor swimming pool and/or shower, etc., or places where a water jet (high pressure washing device) could be used.
- Places subject to direct sunlight, or places subject to high temperatures in the proximity of heating units, etc.
- Places filled with inflammable gas or vicinity of highly inflammable/volatile chemicals or hazardous matter.
- Dusty places.
- Sloped or unstable surfaces.
- Places subject to any type of violent impact.
- Vicinity of anti-disaster facilities such as fire exits and fire extinguishers.
- Areas where the temperature exceeds the applicable temperature (ambient temperature) range of 5 to 30 degrees centigrade.

### 3-1 LIMITATIONS OF USAGE

#### ⚠ WARNING

- 3
- Be sure to check the electrical specifications. Ensure that this product is compatible with the location's power supply, voltage, and frequency requirements. A plate describing electrical specifications is attached to the product. Noncompliance with the electrical specifications can cause an electric shock or fire.
  - This product requires a breaker and earth mechanism as part of the location facilities. Using the product without these can cause a fire and electric shock.
  - Be sure to use an independent power supply equipped with an earth leakage breaker. Use of power supply without such a breaker could result in fire if there is a current leakage.
  - Putting many loads on one electrical outlet can cause generation of heat and a fire resulting from overload.
  - Make sure the interior wiring used to power the product has the following capacitance. Noncompliance with the electrical specifications can cause an electric shock and fire.
    - AC 100 V - 120 V: 10 A or higher
    - AC 220 V - 240 V: 5 A or higher
  - When using an extension cable, use a cable that meets at least the ratings listed below. Using a cable rated lower than the specified rating can cause a fire and electric shock.
    - AC 100 V - 120 V: 10 A or higher
    - AC 220 V - 240 V: 5 A or higher

#### ELECTRICITY CONSUMPTION (MAX.)

2.72 A	Single phase AC 100 V, 50/60 Hz Area
2.6 A	Single phase AC 110 V, 60 Hz Area
2.3 A	Single phase AC 120 V, 60 Hz Area
1.2 A	Single phase AC 220 V, 50/60 Hz Area

## 3-2 OPERATION AREA

### **⚠ WARNING**

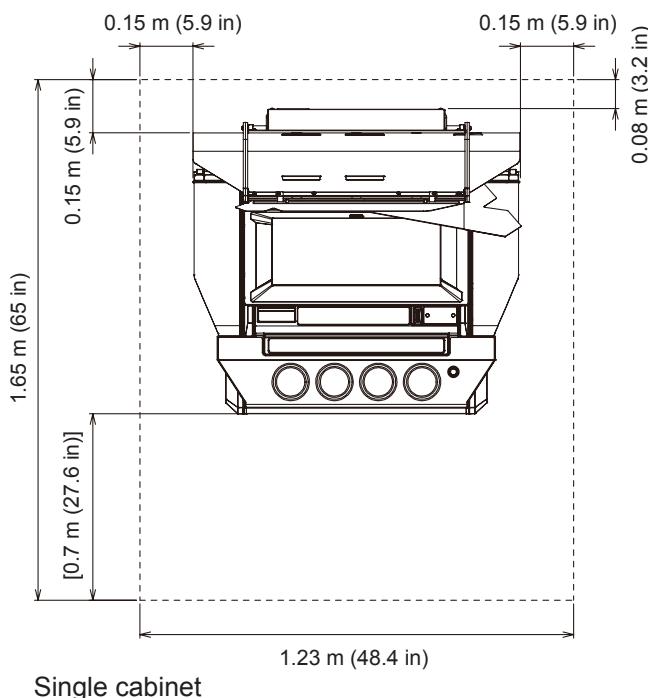
- For safe operation, use and operate this product in an area measuring at least 1.23 m (48.4 in) in width and 1.65 m (65 in) in depth. SEGA shall not be held responsible for damage, compensation for damage to a third party, resulting from the failure to observe this instruction.
- For the operation of 2 cabinets, be sure to provide an area measuring at least 2.31 m (91 in) in width and 1.65 m (65 in) in depth. SEGA shall not be held responsible for damage, including compensation for damage to a third party, resulting from the failure to observe this instruction.
- The ceiling where this product is installed must be at least 2.3 m (90.6 in) high. If the ceiling is too low, the heat emitted from the product may cause it to catch on fire.
- Be sure to provide sufficient space specified in this manual. Do not allow objects to block the ventilation ports. It can cause generation of heat and a fire.
- To operate this product, sufficient space must be provided for the player in addition to the area necessary for the cabinet and ventilation. Be sure to provide an area measuring at least 0.7 m (27.6 in) square per player. Failure to provide sufficient space can lead to falling down during play, which could lead to serious head injuries.
- Put the cabinets close together so that people cannot get through or provide enough space between them that people can go both ways without difficulty. If the cabinets are installed carelessly, people may bump into each other or the cabinets when passing between them or fall down. To prevent people from walking between them, place them 0.15 m (5.9 in) apart.



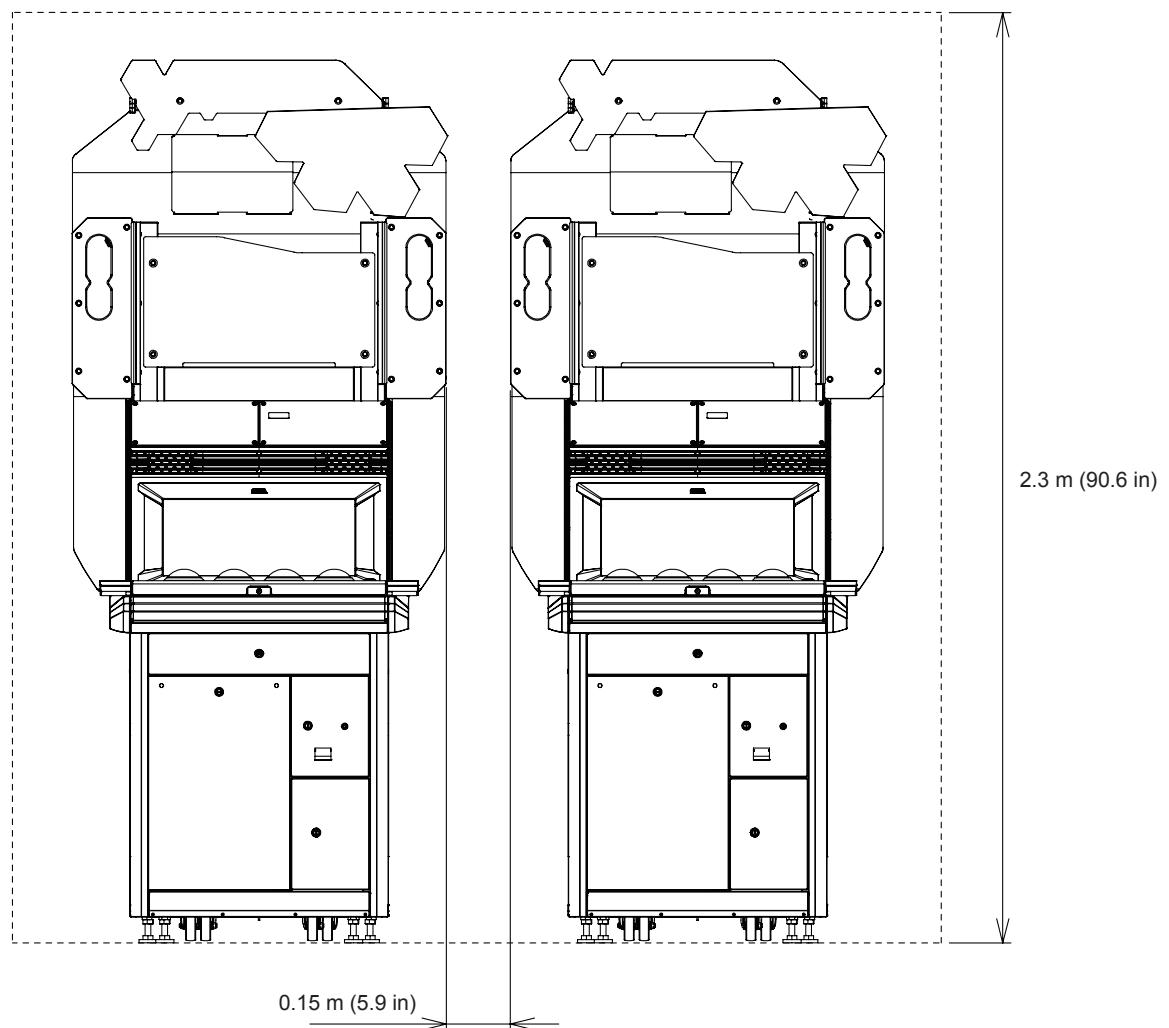
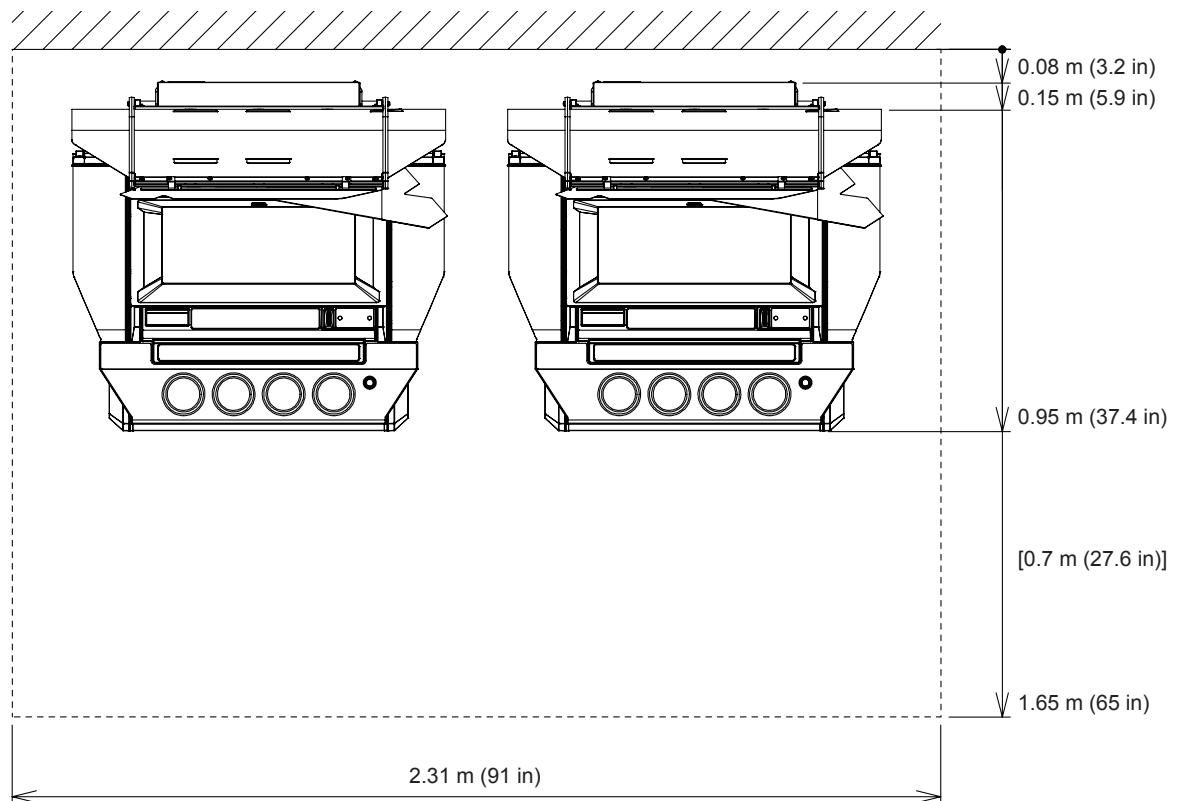
### **IMPORTANT**

To install this product, the entrance must be at least 0.9 m (35.5 in) in width and 1.8 m (70.9 in) in height.

*NOTE: If the cabinet does not fit through the entrance, take off the billboard. The width of the cabinet will be reduced to approximately 0.8 m (31.5 in). To take off the billboard, see Chapter 17.*



3



Example installation of 2 cabinets

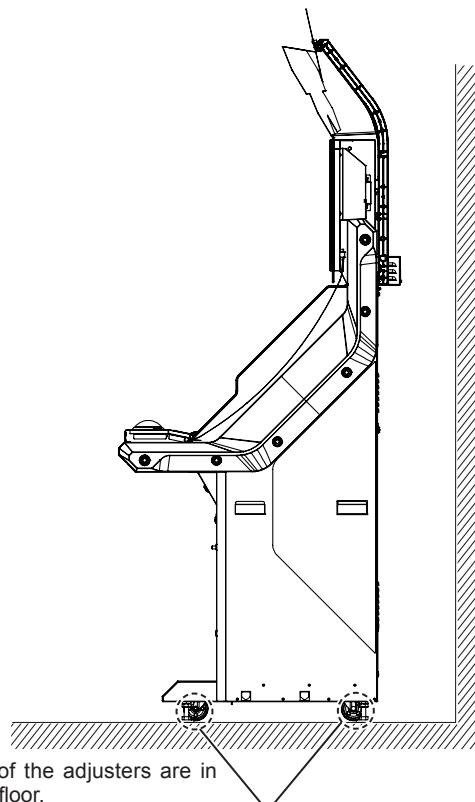
## 4 PRECAUTIONS REGARDING PRODUCT OPERATION

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

### 4-1 BEFORE OPERATION

#### ⚠ WARNING

- To ensure maximum safety for the players and the customers, ensure that where the product is operated has sufficient lighting to allow any warnings to be read. Operation under insufficient lighting can cause bodily contact with each other, hitting accident, and/or trouble between customers.
- Check if all of the adjusters are in contact with the floor. If they are not, the cabinet can move and cause an accident.



- Do not put any heavy item on this product. Placing any heavy item on the product can cause a falling down accident or parts damage.
- Do not climb on the product. Climbing on the product can cause falling down accidents. To check the top portion of the product, use a stepstool.
- To avoid electric shock, check to see if door and cover parts are damaged or omitted.
- Do not place the following items on top of the product, nearby the product or hang them from the ceiling. Doing so could result in electric shock, short circuits, fire and/or damage to the parts.  
Flower vases, flowerpots, cups, water tanks, cosmetics, and receptacles/containers/vessels containing chemicals and water.

**⚠ CAUTION**

- To avoid injury, be sure to provide sufficient space by considering the potentially crowded situation at the installation location. Insufficient installation space can cause contact, collisions, and/or trouble between customers.
- During daily cleaning, be sure to check the surface of the parts that the player touches with his/her hands for damage, cracks, or loose screws. If a player uses the product while it is damaged, cracked, or has a loose screw, the player may become injured.
- Check carefully to make sure there are no gaps in the cabinet joints and that they are not loose.
- Make sure all the doors are locked securely and that they do not rattle. If the doors are not locked properly or there are gaps or rattling, the players could get their fingers or hands caught. It could also invite mischief.
- When cleaning the control panel, be sure to check for scratches or cracks on the surface and loose screws. If a player uses the product while it has a loose screw, the player may be injured.
- Prepare a place where players can rest if they feel sick.
- Be sure to perform appropriate adjustment of the LCD. For operation of this product, do not leave monitor's flickering or deviation as is. Failure to observe this can have a bad influence upon the players' or the customers' physical conditions.

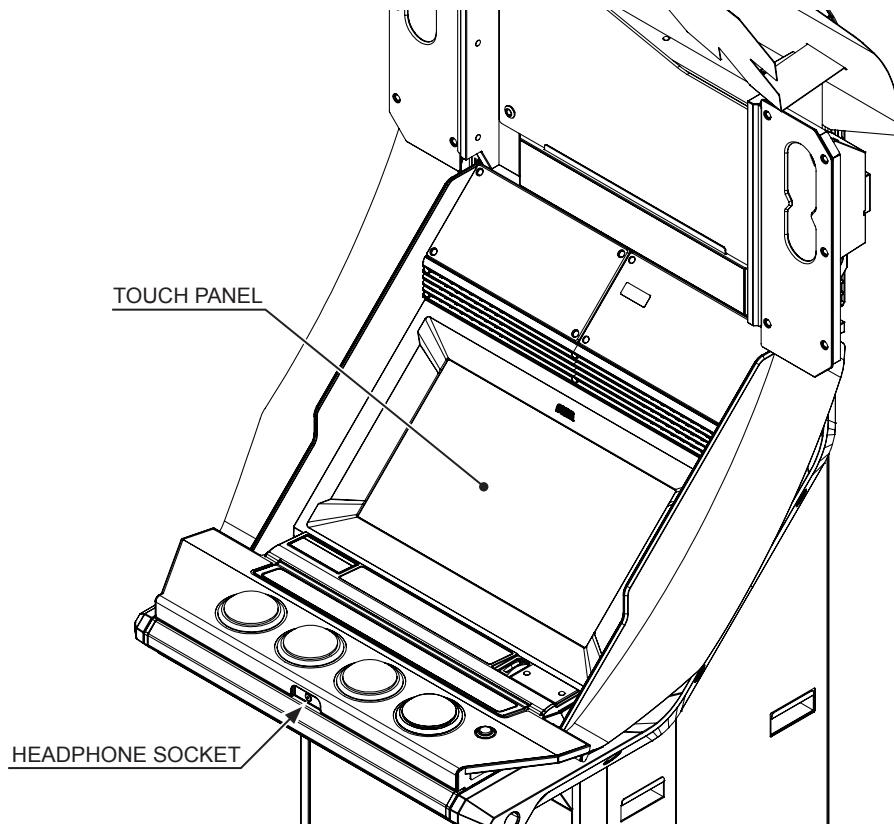
**IMPORTANT**

- Be sure to have hand wipes, etc. available during operation to ensure that the customers play in comfort.
- Diligently clean the parts that players touch directly to ensure a pleasant game playing experience.
- Inspect the coin insert slots to make sure no foreign objects have been inserted and that they have not otherwise been tampered with. This will prevent play.
- Since the headphone socket is plugged into and out of at the time of each play, it may be handled roughly or intentionally abused. Be sure to periodically inspect the headphone socket and perform an output test.
- Do not rub or scratch the screen surface with hard items such as brushes, scrub brush, etc.
- Do not stick tape, stickers or anything else onto the screen. Any kind of adhesive may damage the surface of the screen.



## IMPORTANT

- Be sure to periodically check the operability of the control panel and the touch panel. Readjustment or parts replacement may become necessary due to wear and tear.



- When operating without store closing settings enabled, be sure to check for any players before turning the power OFF.
- If store closing settings are enabled, various procedural functions will be performed in order to shut down all games at the specified closing time. Messages are displayed whenever these procedural functions are performed, but be sure to have a clear understanding of the functions involved during the store closing procedure in case trouble with players arises. See "1-5 STORE CLOSING PROCEDURE" in the Service Manual for details.
- If the product is in operation at 7:00 AM, it will reboot automatically. During this time, various procedural functions will be performed. Messages are displayed whenever procedural functions are performed, but make sure to have a clear understanding of the functions involved during automatic reboot processing in case trouble with players arises. See "1-6 AUTOMATIC REBOOTING PROCESS" in the Service Manual for details.
- When turning the server machine's main power switch OFF during operating hours, ensure that there are no players using the connected cabinets before doing so. Once the main power switch is turned OFF, network transmissions are no longer possible.  
Furthermore, start the server machine before powering up each cabinet. If the server machine is started afterward, the in-store network may not operate correctly.

## 4-2 PAYING ATTENTION TO CUSTOMERS

To prevent injuries and unnecessary trouble, be sure to pay attention to the behavior of customers and players.

4

### ⚠ WARNING

- For safety reasons, do not allow any of the following people to play the game. Failure to observe this warning could result in serious injury.
  - Persons who disregard the product's warning displays.
  - Those who are intoxicated.
- For the sake of safety, stop the following acts by players, any of which could lead to accidents. They could also result in damage or deformation of parts, faulty operations or needless trouble.
  - Violent manipulations.
  - Leaning against the monitor or other actions that could lead to accidents.
  - Putting out cigarettes in places other than the ashtray.
  - Acts that block ventilation ports.
  - Placing drinks on the cabinet.
  - Placing wet raingear nearby.
  - Acts that involve persons other than the player touching the controls during play.
  - Placing objects where they will block passage by other customers.
  - Tilting the cabinet.
- To avoid injury from falls and electric shocks due to spilled drinks, instruct the player not to place heavy items or drinks on the product.
- To avoid electric shock and short circuits, do not allow customers to put hands and fingers or extraneous matter in the openings of the product or small openings in or around the doors.
- To avoid falls and resulting injury, immediately stop the customer from leaning against or climbing on the product, etc.
- To avoid electric shock, short circuit and fire, do not allow customers to unplug the power plug without a justifiable reason.

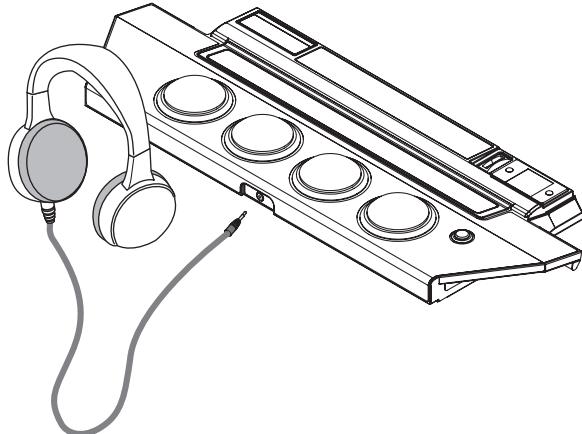
### ⚠ CAUTION

- Instruct those who feel sick during play to have a medical examination.
- Immediately stop such violent acts as hitting and kicking the product. Such violent acts can cause parts damage or falling down, resulting in injury due to fragments and falling down.



## IMPORTANT

- It is recommended that players be instructed to use the headphones responsibly. If used irresponsibly, trouble such as damage and theft may occur.
- Do not connect any device other than the headphones to the headphone socket. If a device other than the headphones are connected, the board could be damaged.



4

## ABOUT Aime CARDS AND MOBILE PHONES



## IMPORTANT

In addition to mobile phones\*, the following Aime cards can be used with this product: Aime Card, MJ Member's Card, Hatsune Miku Project DIVA Arcade Access Card.

Ensure that players are aware of the following points.

- Do not bend Aime cards, get them wet or expose them to strong magnetism.
- Do not keep or leave Aime cards in hot, humid places.
- Do not apply stickers etc. to Aime cards.
- Do not lend or loan Aime cards to other people.
- When mobile phone or Aime card data is being read, ensure that they make direct contact with the cabinet's touch-type card reader.
- We take no responsibility for breakage, loss, theft, dirtying, incorrect use or data corruption of Aime cards and mobile phones.

### [What is Aime?]

Aime is a service that allows multiple compatible games bearing the "Aime" mark to be played using a single Aime card or mobile phone\*.

Users can gain access to various Aime-compatible game services by registering on the "Aime Service Site." Registration is free of charge.

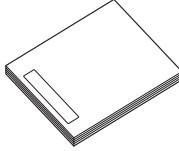
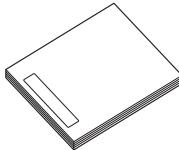
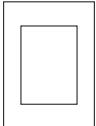
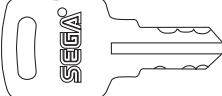
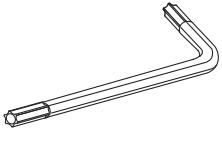
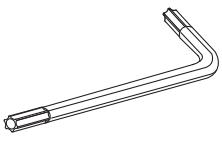
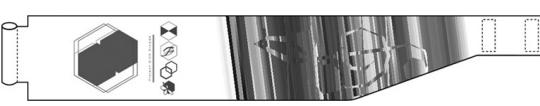
\*:

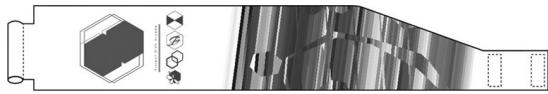
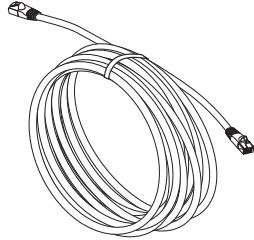
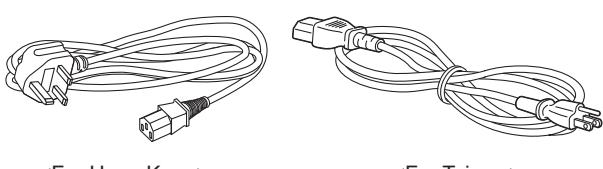
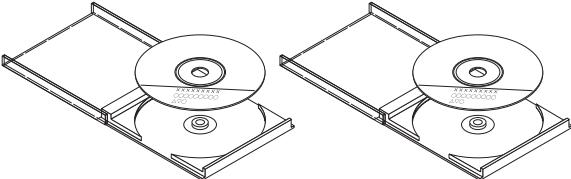
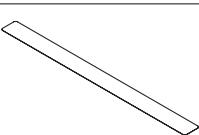
- Mobile phones that can be used are limited to those with the "Osaifu-keitai" ("wallet mobile phone") function.
- Electronic money cannot be used to pay for game fees.
- "Osaifu-keitai" is a registered trademark of NTT Docomo, Inc.

## 5 ACCESSORIES

Confirm that the accessories listed in the table below are present when setting up the product. Accessories marked "Spare" in the "DIAGRAM/USE ETC." column are consumable items but included as spares.  
Be sure to handle all parts with care, as some parts are not available for purchase separately.

5

PART NAME/PART NO.	DIAGRAM/USE ETC.	QUANTITY
OWNER'S MANUAL 420-7463		1
Nu (GAME BOARD) SERVICE MANUAL 420-7462-01		1
INSTRUCTION SHEET 421-13001-13		1
INSTR SH FCC WARNING (USA) 421-12647-US		1
MASTER KEY 220-5793-2-A001	 Open and Close the door	2
KEY	 For cash box door The keys are placed inside the selector door for shipping.	2
TAMPERPROOF WRENCH FOR M4 540-0006-01	 Tool	1
TAMPERPROOF WRENCH FOR M5 540-0007-01	 Tool	1
FLAG L BRK-0026-02	 For installation (See 6-2.)	1

PART NAME/PART NO.	DIAGRAM/USE ETC.	QUANTITY
FLAG R BRK-0027-02	 For installation (See 6-2.)	1
LAN CABLE [50 m (164 ft)] 600-7269-5000	 For installation (See 6-4.)	1
"SERVER" STICKER 421-11708	 For installation (See 6-4-2.)	1
INSTALLATION CABLE BRK-60219	 For software installation (See 6-5.)	1
USB CABLE FOR INSTALLATION 600-7357-100	 For software installation (See 6-5.)	1
POWER CABLE 600-7326 <USA> 600-6729-01 <Taiwan> 600-6619-02 <Hong Kong, Singapore>	  For installation (See 6-6.)	1 ea.
DVD SOFT KIT 610-0894-0001	 2-disc set (See 6-7.)	1
SLIDER FILM BRK-2365Y	 Spare (See 11-3.)	1

## KEY CHIP KIT

**Kit Number: XRK-0017-K-EX1 [R KIT KEY CHIP PDA3 ASIA]**

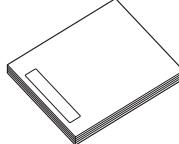
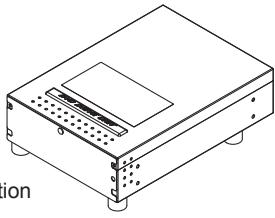
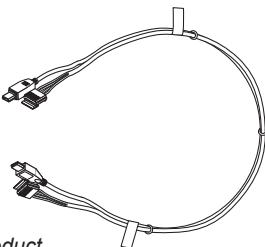
PART NAME/PART NO.	DIAGRAM/USE ETC.	QUANTITY
KEY CHIP RENTAL INSTRUCTION SHEET 421-12564-01		1
KEY CHIP	SEGA property (rental item) (See 6-4.) 	1

5

## DVD DRIVE KIT

The DVD drive is sold separately, but it is required in order to install the software for this product. If you do not have a DVD drive when installing this product, please place an order using the kit number below.

**Kit Number: XKT-1515-01 [DVD DRIVE KIT FOR LBG ENG]**

PART NAME/PART NO.	DIAGRAM/USE ETC.	QUANTITY
DVD DRIVE SERVICE MANUAL 420-6923-01		1
DVD DRIVE 610-0719-01-91	 For software installation (See 6-5, 6-7.)	1
DVD CABLE 605-0094	 For software installation <i>NOTE: Not used for this product.</i>	1

## SEPARATELY SOLD CARDS

The Aime cards used with this product are sold separately. To purchase Aime cards, place an order with the office listed in this manual, mentioning the part number and item name below and the number of cards required.

### Aime CARD

PART NO.	601-12647
ITEM	CARD PACKAGE AIME
DESCRIPTION	Aime card (100 cards)

## 6 ASSEMBLY AND INSTALLATION

### ⚠ WARNING

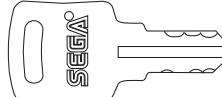
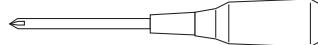
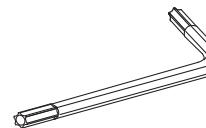
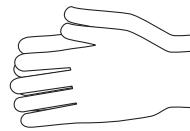
- This work should be performed by site maintenance personnel or other qualified professionals. Work performed by non-technical personnel can cause a severe accident such as an electric shock.
- Be mindful of your surroundings if 2 or more workers are servicing this product at once. Failing to do so could cause collisions and contact with parts. In addition, if workers are working on different parts separately and make a mistake in the assembly order, it could cause an unforeseeable accident and/or make it impossible to assemble the product correctly.
- For any work listed in this manual that requires more than 1 person, be sure to perform the work with at least the number of people specified. Performing work with less than the specified number of people makes the work more difficult and may cause accidents.
- To perform work safely and securely, be sure to prepare a stepstool which is in a secure and stable condition. Performing work without using the stepstool can cause violent falling down accidents.
- Exercise proper caution when using a stepstool to perform work. Falling or tipping over could result in a major accident. Also, if the ceiling is low, you could bump your head.
- Check to see if the casters and adjusters are damaged. Operating the product with damaged parts may lead to the product falling over.
- Check if all of the adjusters are in contact with the floor. If they are not, the cabinet can move and cause an accident.
- To perform work safely and avoid serious accident such as the cabinet falling down, do not perform work in places where step-like grade differences, a ditch, or slope exist.
- Ensure that plenty of space and lighting are available for assembly and installation. Performing these tasks in an unsuitable environment may cause accidents.
- Be sure to perform grounding appropriately. Inappropriate grounding can cause an electric shock. Otherwise there could be faulty, erroneous operations and/or damage to the parts.
- Ensure that connectors are accurately connected. Improper connections can cause an electric shock, short circuit or fire.
- Be careful not to damage the cables. Damaged cables may cause an electric shock, short circuit or fire.

## ⚠ CAUTION

- When opening/closing or attaching/removing doors or other parts, be careful that your hands or fingers do not get caught in anything.
- Be careful in handling plastic parts. If such parts are exposed to excessive loads or impact, they might become damaged, resulting in fragments or cracks that could cause accidental injury.
- When fastening plastic parts, be careful not to tighten screws and nuts excessively. Failure to observe this may damage the parts and cause injury due to fragments resulting from damage.
- Support and hold parts in place securely and fasten them with screws and/or bolts. Use at least two workers, one to support the part and another to fasten it in place. If a part is not supported securely, it might fall down, resulting in an accident.
- If all affixed fasteners (screws, nuts, and washers) are removed, parts will fall off and cause accidents. Ensure that parts are firmly supported when removing affixed fasteners.
- Wear appropriate work clothing so that work can be performed safely. Use gloves and safety shoes to prevent accidents or injuries.

6

### TOOLS NECESSARY FOR WORK

MASTER KEY (Accessory)	
PHILLIPS SCREWDRIVER (For M3/M4)	
TAMPERPROOF WRENCH (For M4, accessory)	
BOX DRIVER (WAF 7 mm [For M4])	
SPANNER (WAF 24 mm)	
GLOVE	

## 6-1 ASSEMBLING THE POP

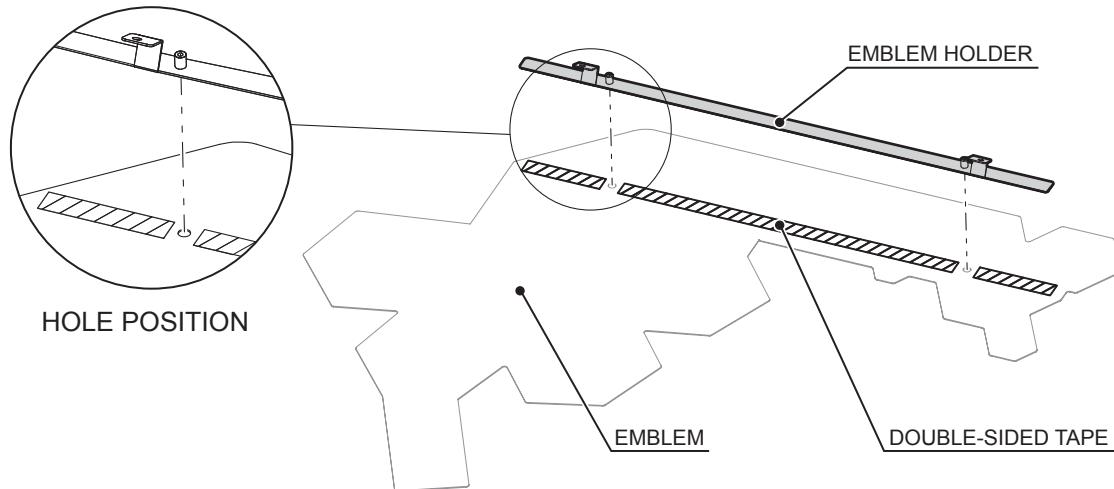
### STOP IMPORTANT

- The direction in which the top beam is inserted into the side arm is designated. Check the direction carefully before assembly.
- The left and right (L & R) parts of the sheet metal for the side arm are different. When assembling multiple cabinets simultaneously, be careful not to mix the parts.
- Be sure to handle the back sheet with care. Careless handling can result in creases.

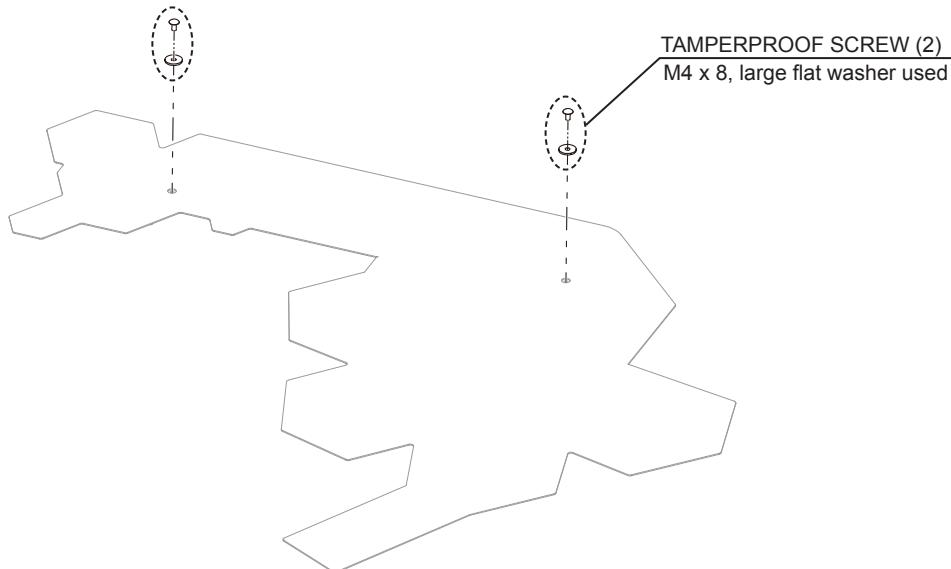
6

Individual parts of the POP are packaged separately at the time of shipment from the factory. Assemble the POP and attach it to the upper part of the cabinet.

- 1 Peel off the separate paper from the double-sided tape on the reverse of the emblem, and attach the emblem to the emblem holder, making sure that the holes are aligned.

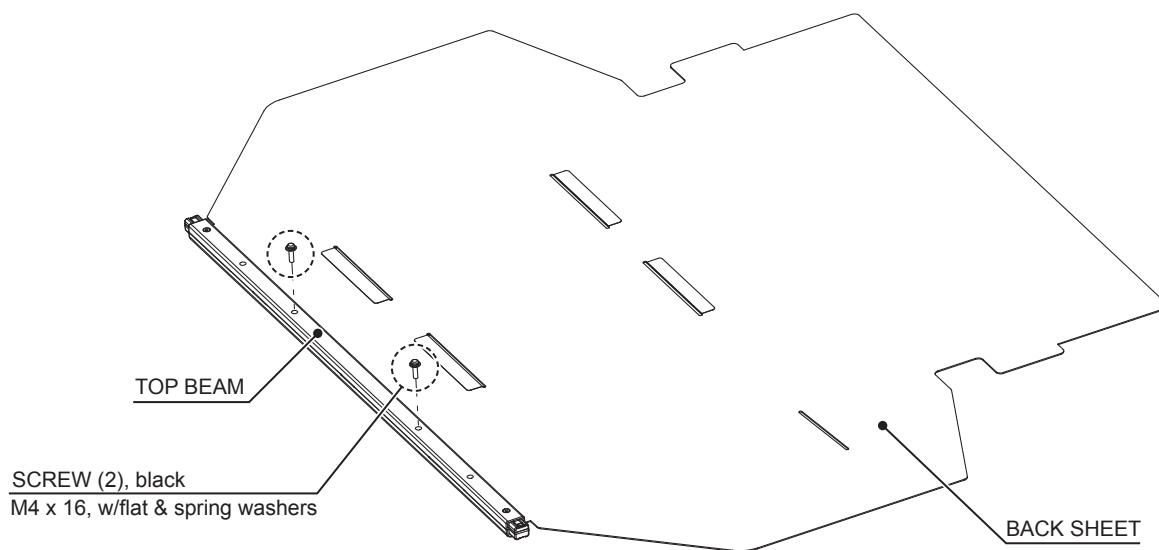


- 2 Turn the emblem upside down and use the supplied 2 tamperproof screws to affix the emblem to the emblem holder.

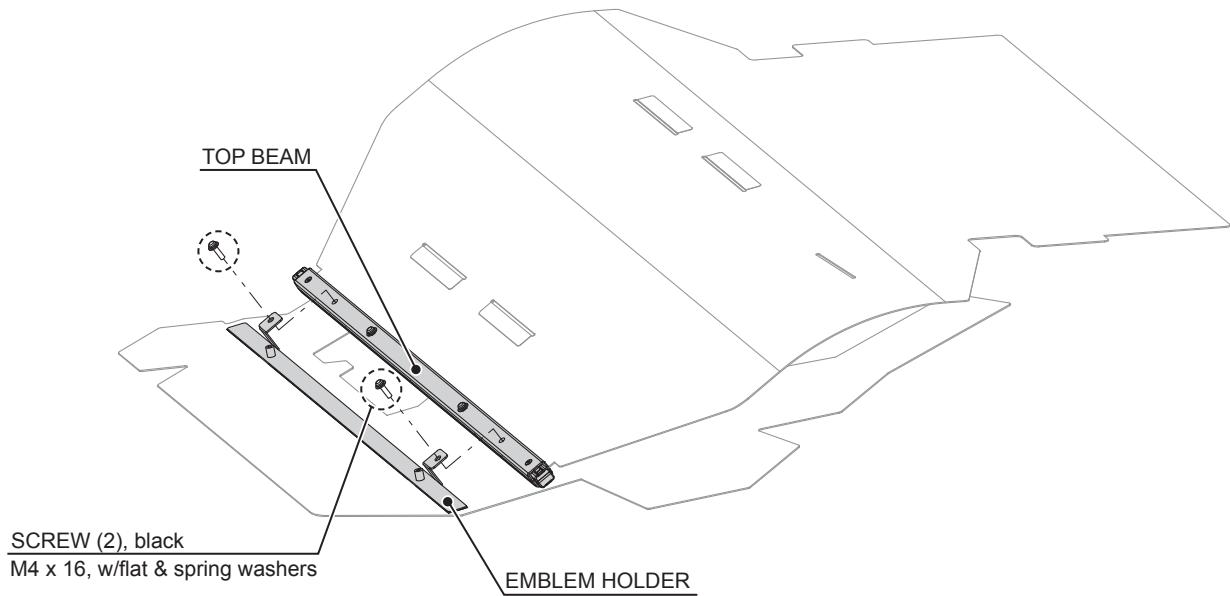


- 
- 3** Remove 2 screws from the top beam holding the back sheet.

6



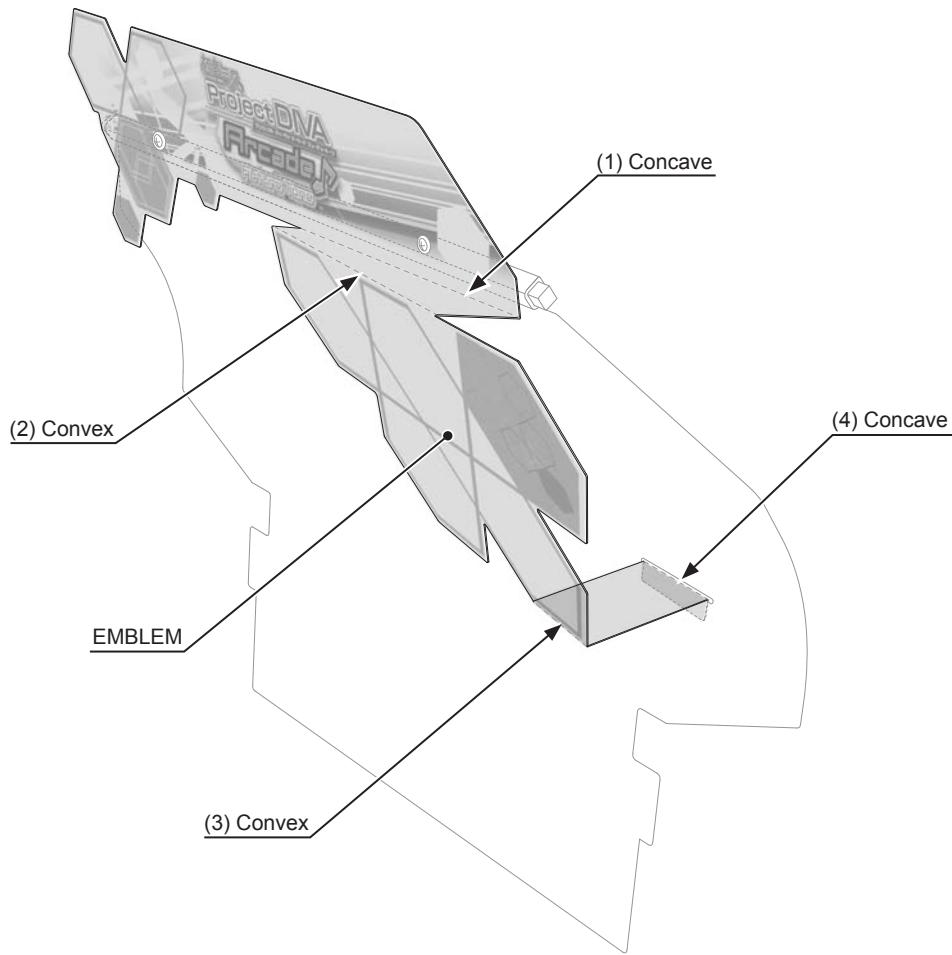
- 
- 4** Attach the top beam to the emblem holder using 2 screws removed in Step 3.



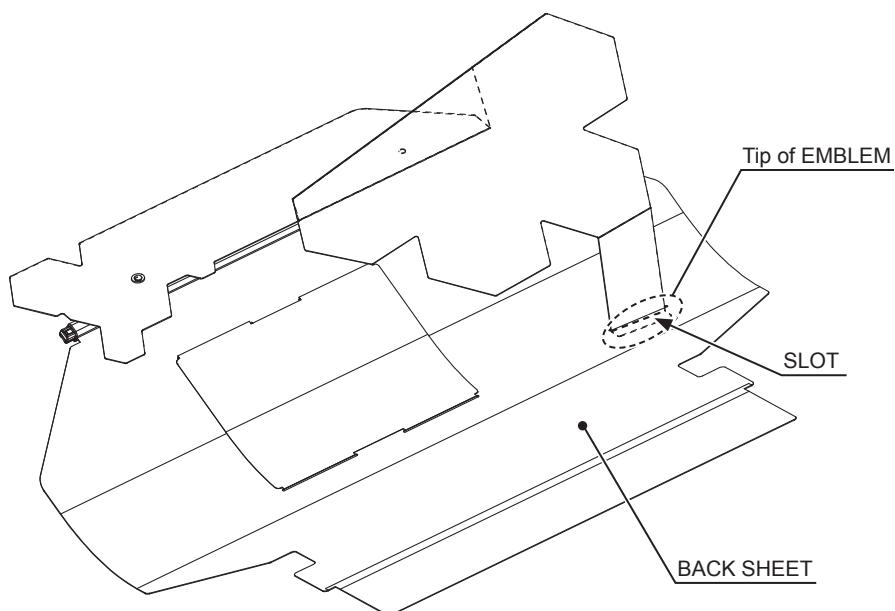
---

**5**

Crease the emblem. When doing this, fold it so that the creases are at right angles.

**6**

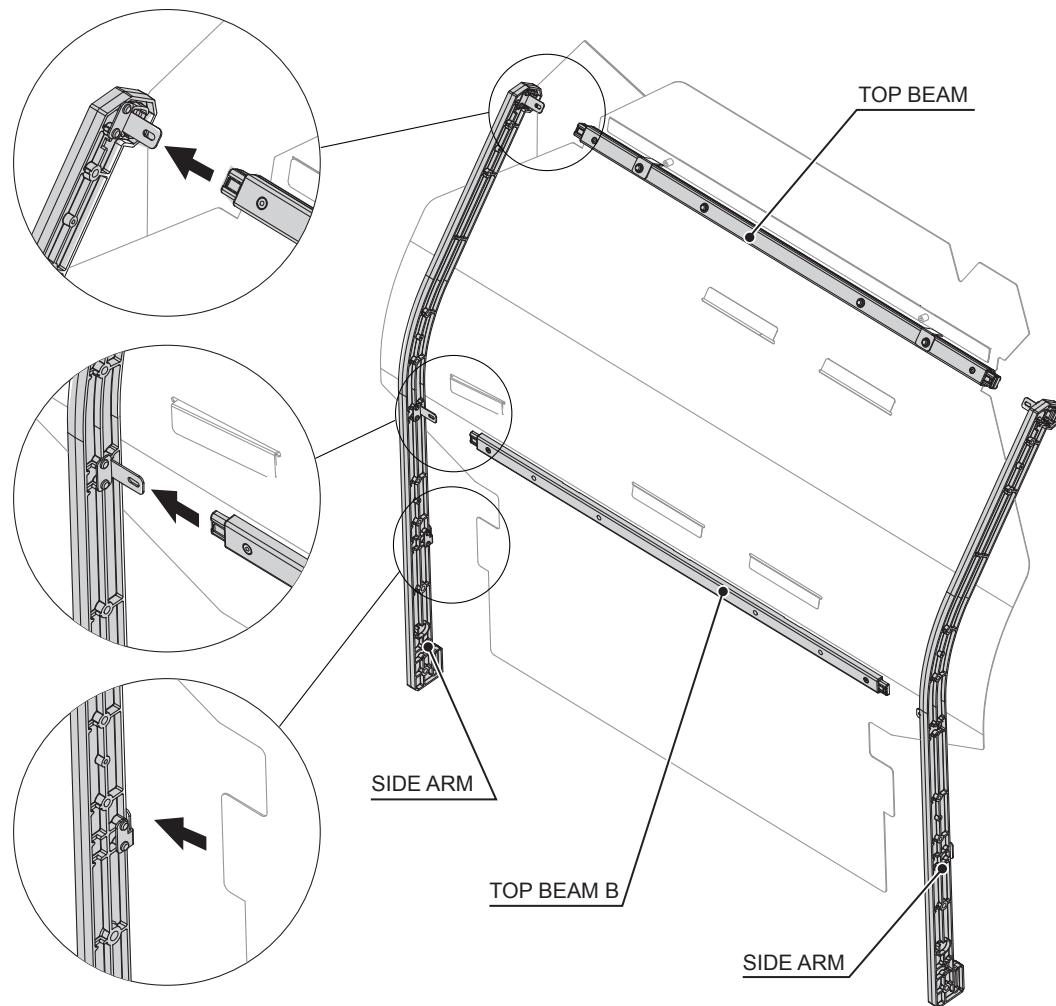
Insert the tip of emblem into the slot in back sheet, peel off the separate paper from the double-sided tape on the tip of emblem and affix it to the reverse side of back sheet.



7

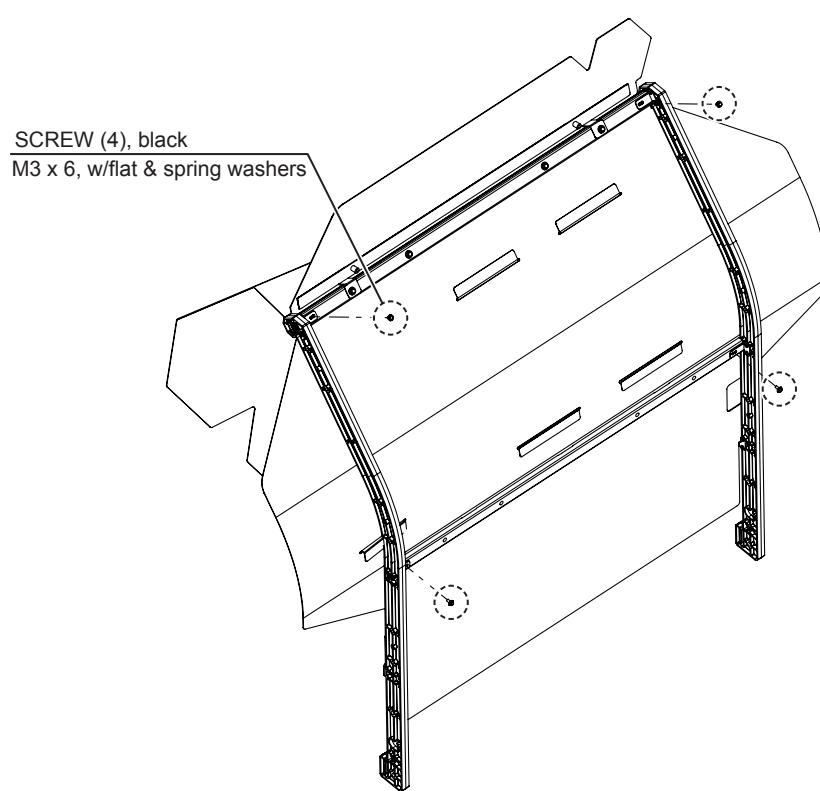
Attach the side arms to the top beam and top beam B found on the reverse side of back sheet.

6



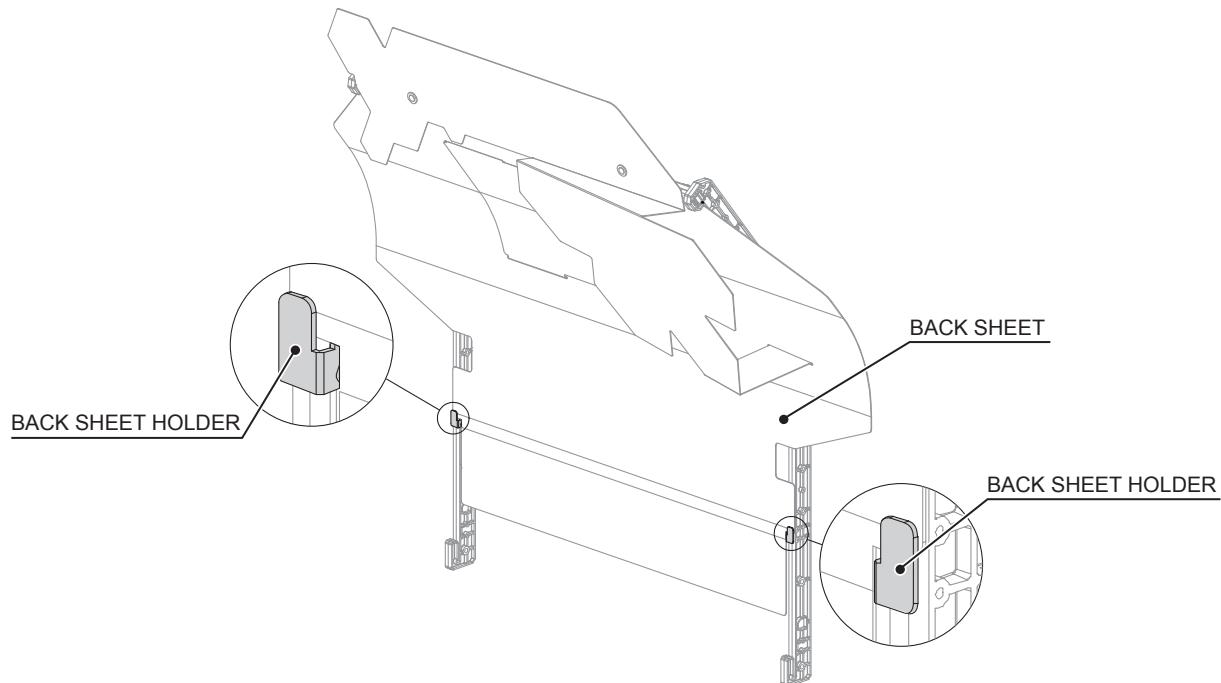
8

Secure the attached side arms using 4 screws.



**9**

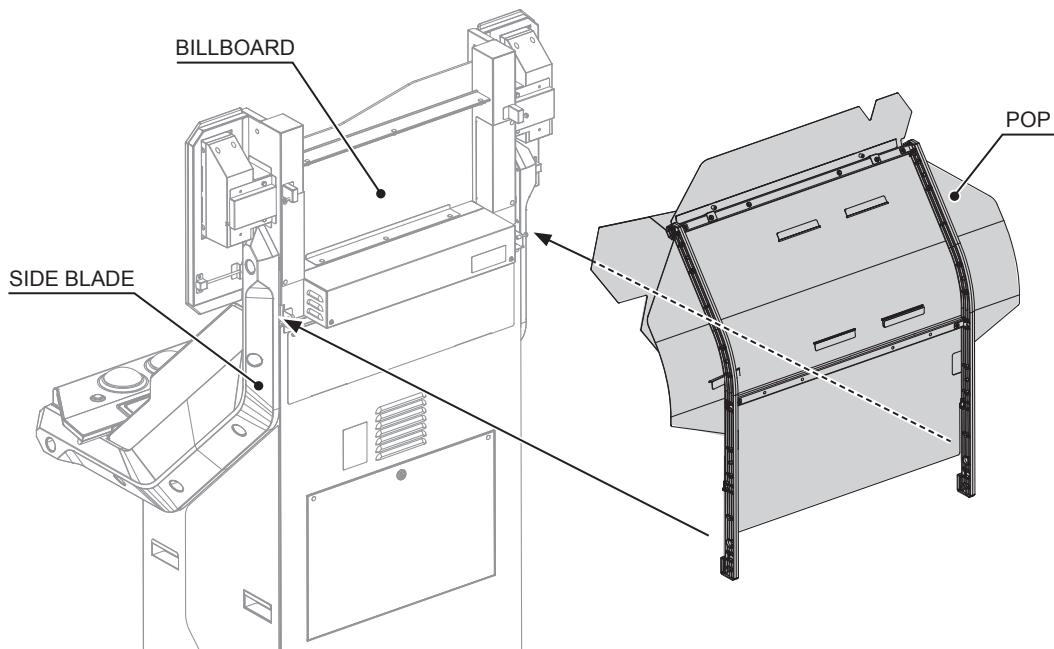
Insert the back sheet into the back sheet holders and align it with the side arms.



6

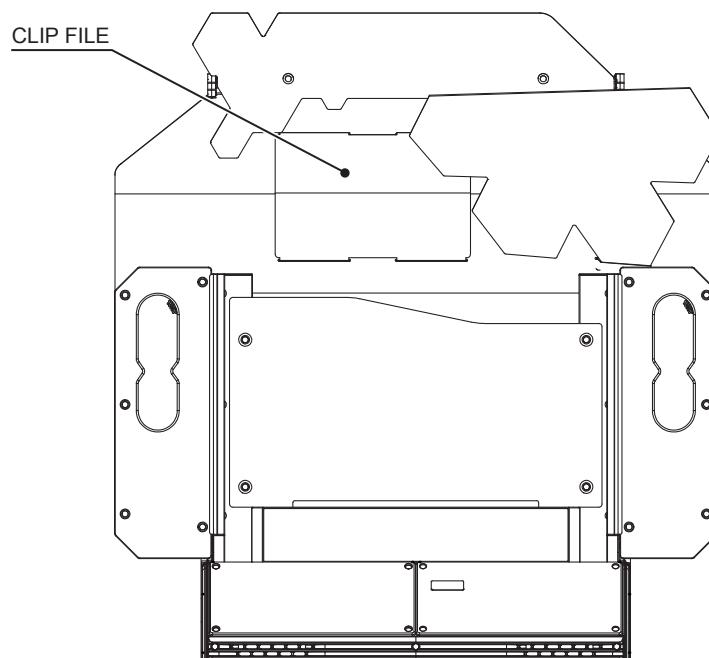
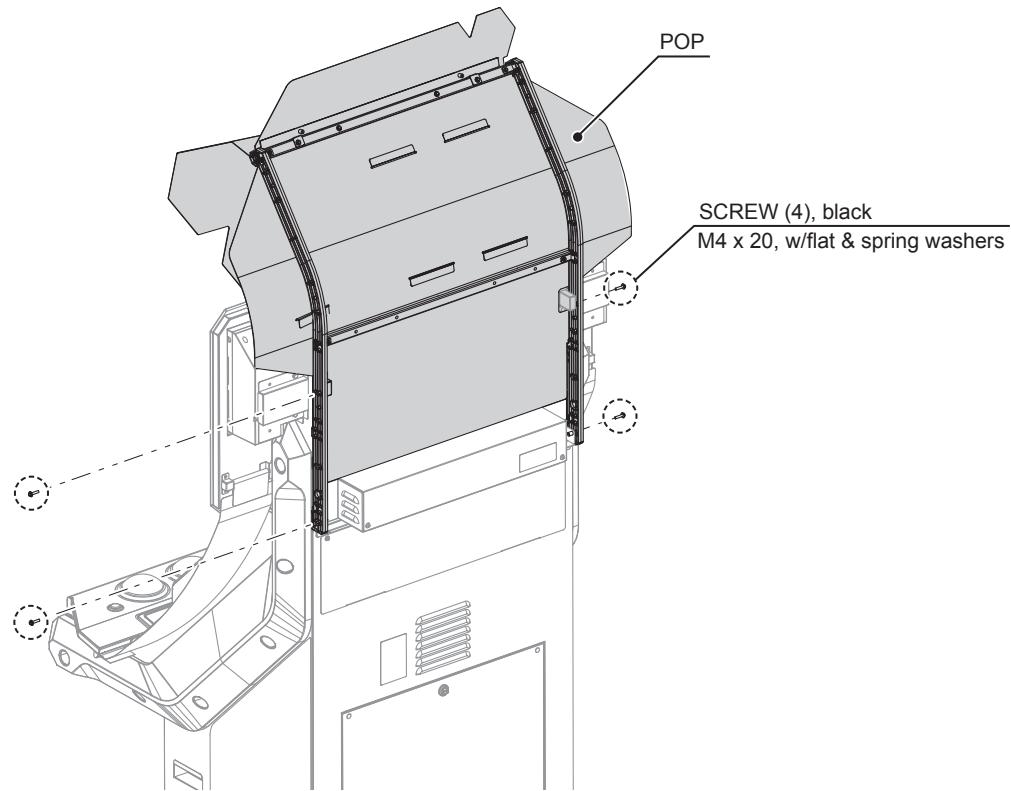
**10**

Attach the assembled POP from the rear side of the cabinet. Attach it so that it is inserted between the side blade and the billboard.



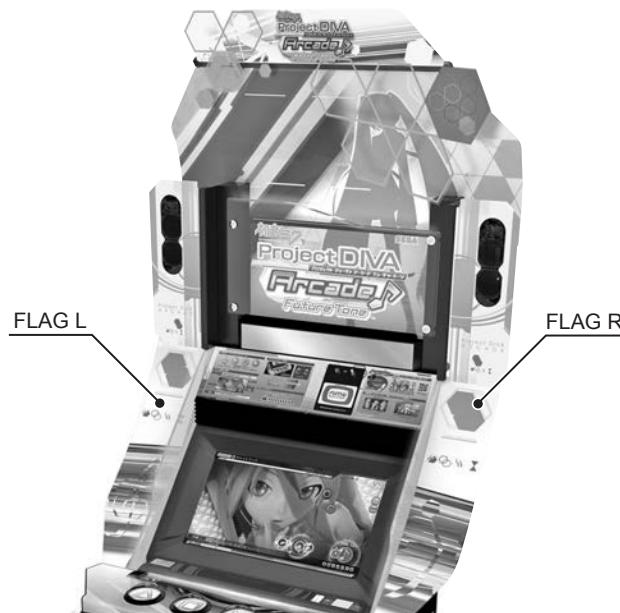
**11** Secure the POP with 4 screws.

6



*NOTE: POP notices can be inserted into the clip file. Do not insert POP notices other than those provided by SEGA.*

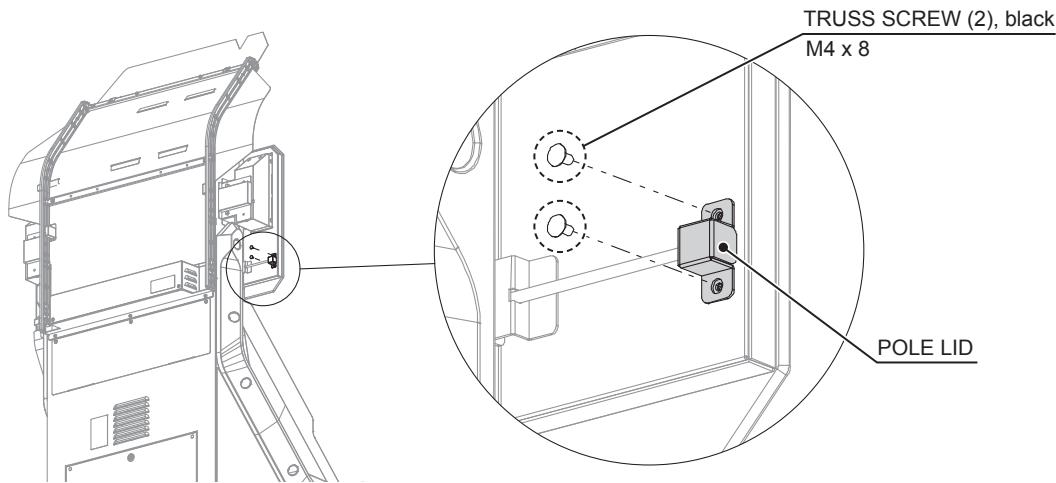
## 6-2 ATTACHING THE FLAGS



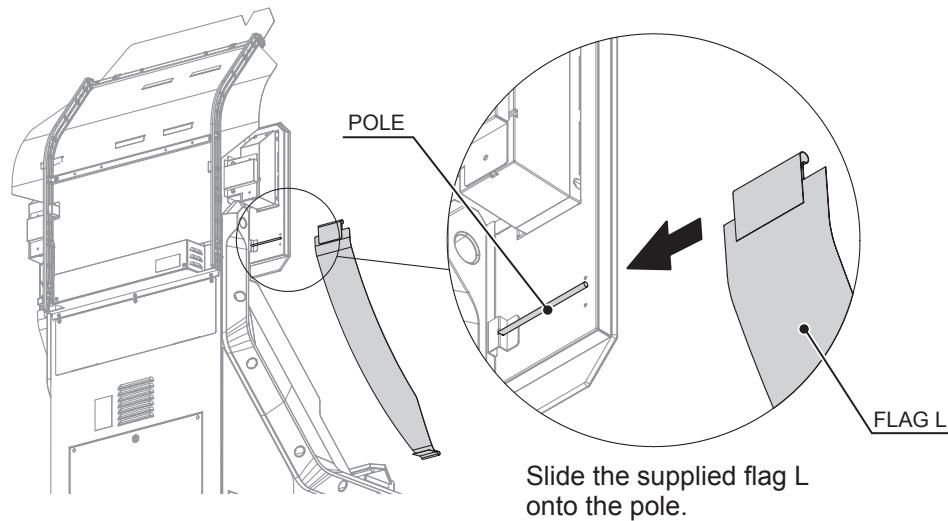
6

VISUAL GUIDE TO COMPLETED ATTACHMENT OF FLAGS

- 
- 1** Remove 2 truss screws and take the pole lid off.

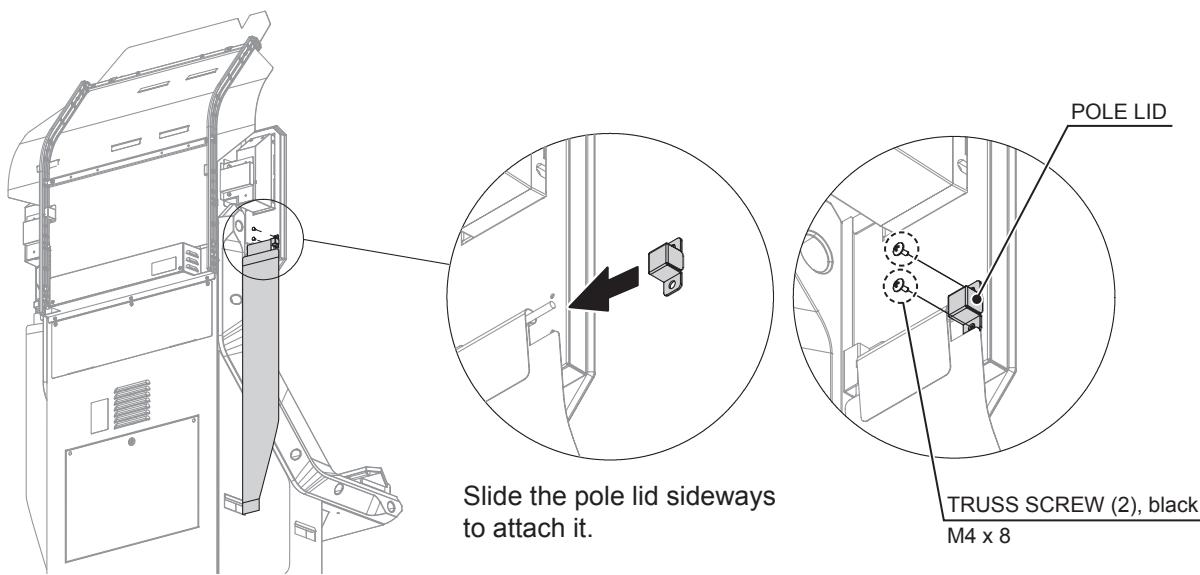


- 
- 2** Slide the supplied flag L onto the pole so that the design faces forward.

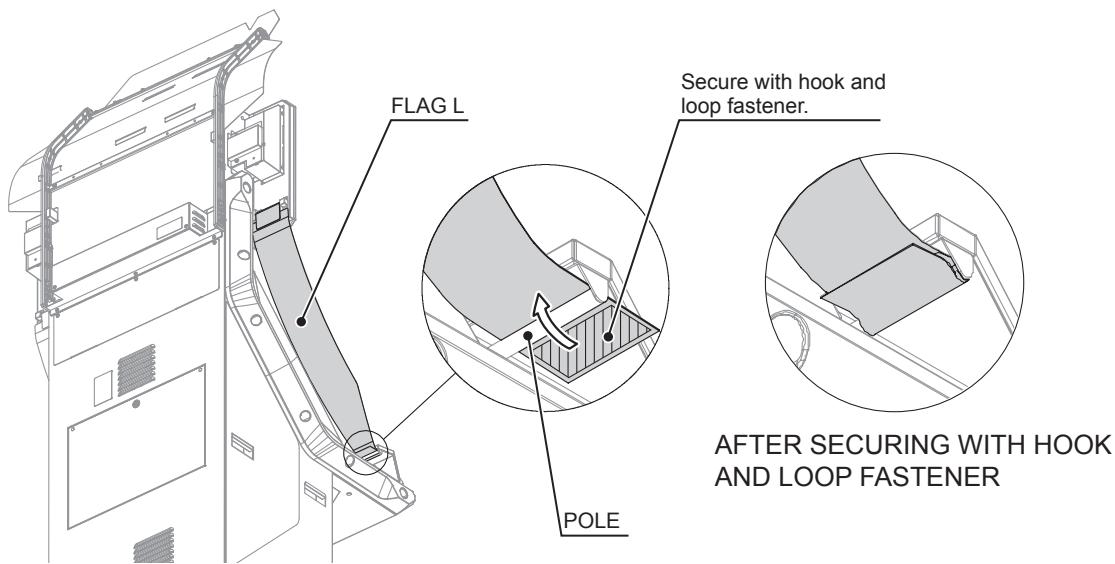


- 
- 3** Attach the pole lid using 2 truss screws.

6



- 
- 4** Thread the base of flag L under the pole on the control panel and secure it with the hook and loop fastener.

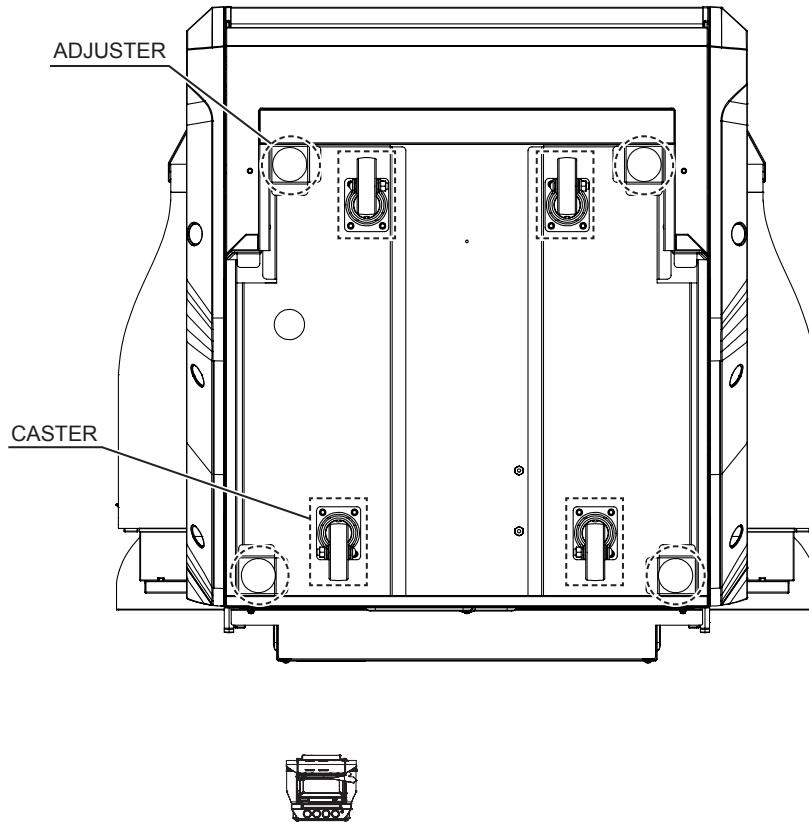


- 
- 5** Refer to Steps 1 to 4 and attach the flag R on the opposite side in the same manner.

### 6-3 INSTALLING THE CABINET

This product has 4 casters and 4 adjusters.

After determining the installation location, have the adjusters contact the floor directly, and adjust them so the cabinet will remain in a level position keeping a space of about 5 mm (0.2 in) between the floor and the casters.

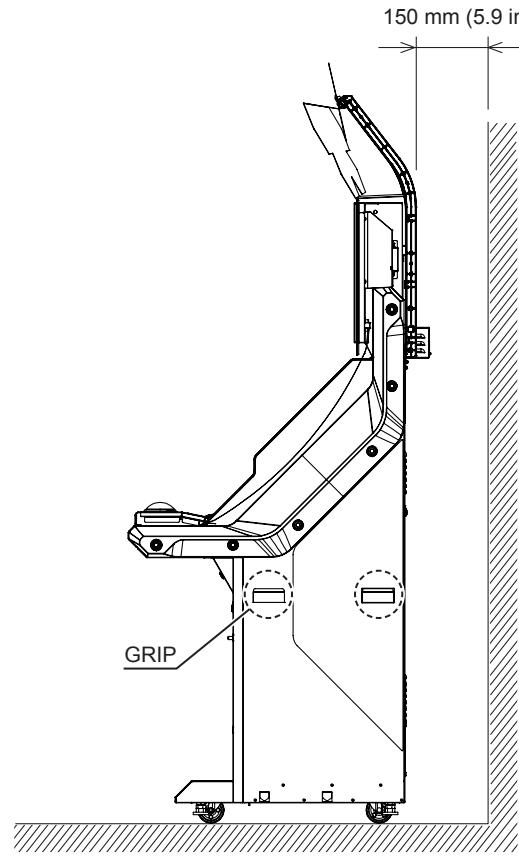


6

(Scale: 1/100)  
Refer to this figure for the layout  
of the place of installation.

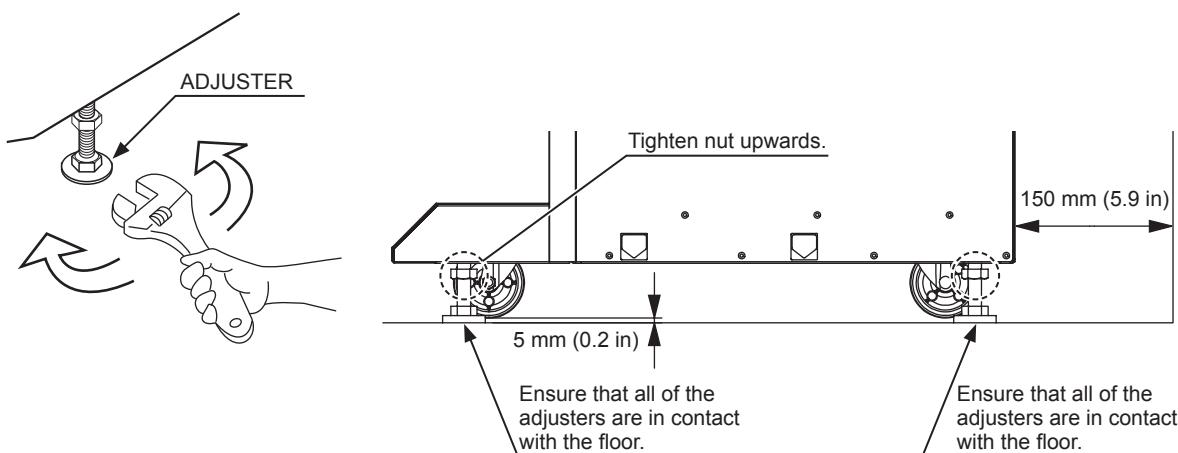
- 1** Move the product to the installation site. Hold the grips on the sides of the cabinet when moving it and changing the direction it faces. Secure a 150 mm (5.9 in) space between the back wall and the back of the cabinet for ventilation.

6



- 2** Bring the adjusters into direct contact with the floor. Use a wrench to align the height of the adjusters until the cabinet is perfectly level.

- 3** After setting, turn adjuster nuts upwards to tighten them and secure adjuster heights.



## 6-4 ATTACHING THE KEY CHIP AND CONNECTING THE LAN CABLE

### ⚠ WARNING

- Do not leave the LAN cable exposed over passageways. Exposure could lead to damage and electric shock or short circuit. When laying wiring across the floor, always use safety covers to protect the cables.
- To prevent anyone other than store personnel from disconnecting cables connected to network communication devices, be sure to consider the layout of the devices, and wiring method and protection. Failure to observe this may cause an electric shock or short circuit.

6

### ⚠ CAUTION

When performing work inside the front door, be careful not to hit your head on the control panel sticking out in front.

### STOP **IMPORTANT**

- If a network system is carelessly set up and run, it may be easily tampered with and lead to trouble such as communication errors and data corruption. Given the need to prevent such trouble and tampering, it is recommended that a skilled professional who can set up and run a network be contracted to perform the work.
- The key chip is a precision device. It can be damaged by heat, impact, and static electricity. Exercise caution in handling this equipment.

This product requires a connection to an external network (ALL.Net.)

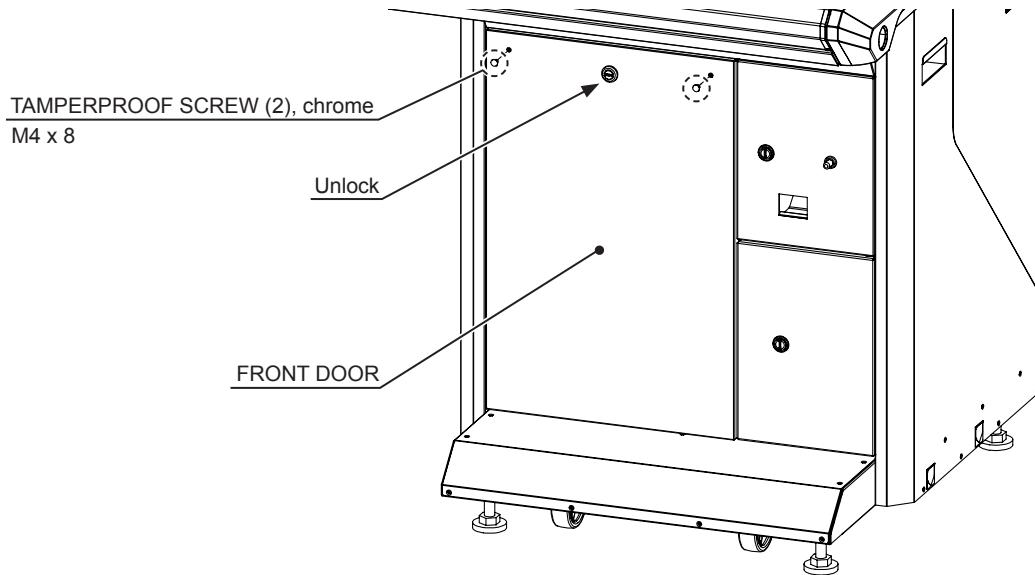
Since network environments (devices, facilities, etc.) will vary depending on the store, contact the office listed in this manual for details on connecting to the external network (ALL.Net.)

### 6-4-1 OPERATING A SINGLE MACHINE

1

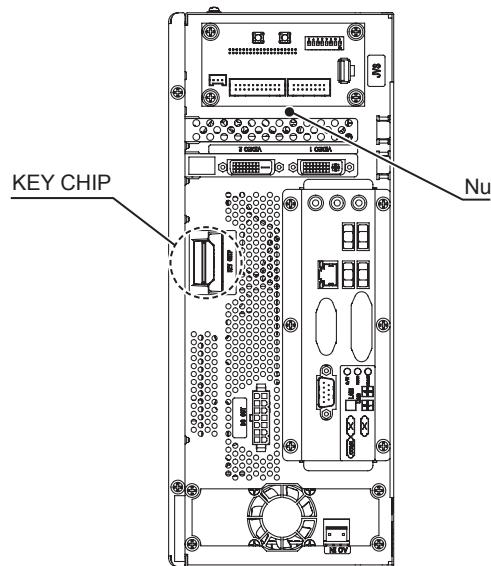
Remove 2 tamperproof screws. Unlock the front door with the master key and then take it off.

6

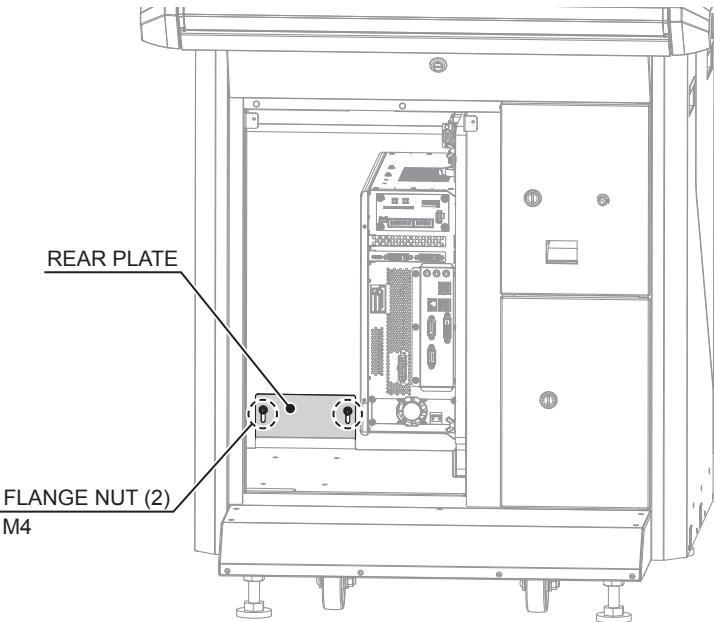


2

The Nu is on the inside of the front door. Insert the key chip from the key chip kit into the Nu. Check the direction carefully, and make sure to insert the key chip firmly all the way in.

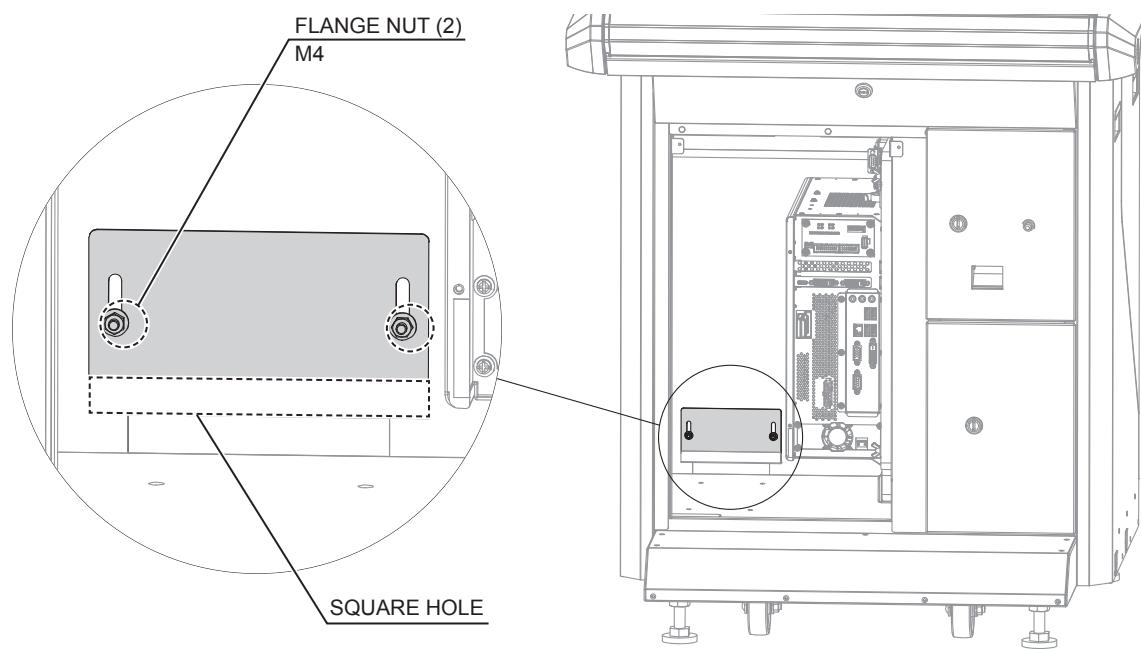


- 
- 3** Loosen 2 flange nuts securing the rear plate.



6

- 
- 4** Slide the rear plate upward to reveal a square hole. Fasten 2 flange nuts to secure the rear plate.

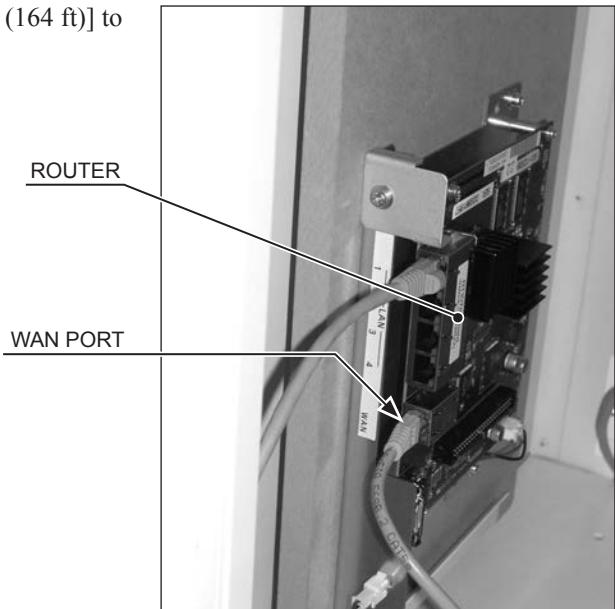


- 5** Thread one end of the included LAN cable [50 m (164 ft)] through the square hole on the back of the cabinet.



6

- 6** Connect the 1 connector of the LAN cable [50 m (164 ft)] to the router's WAN port.



- 7** Use 1 cord clamp to secure the LAN cable. To prevent disconnection, make a 15 cm (5.9 in) (approx.) diameter ring with the LAN cable before affixing it.

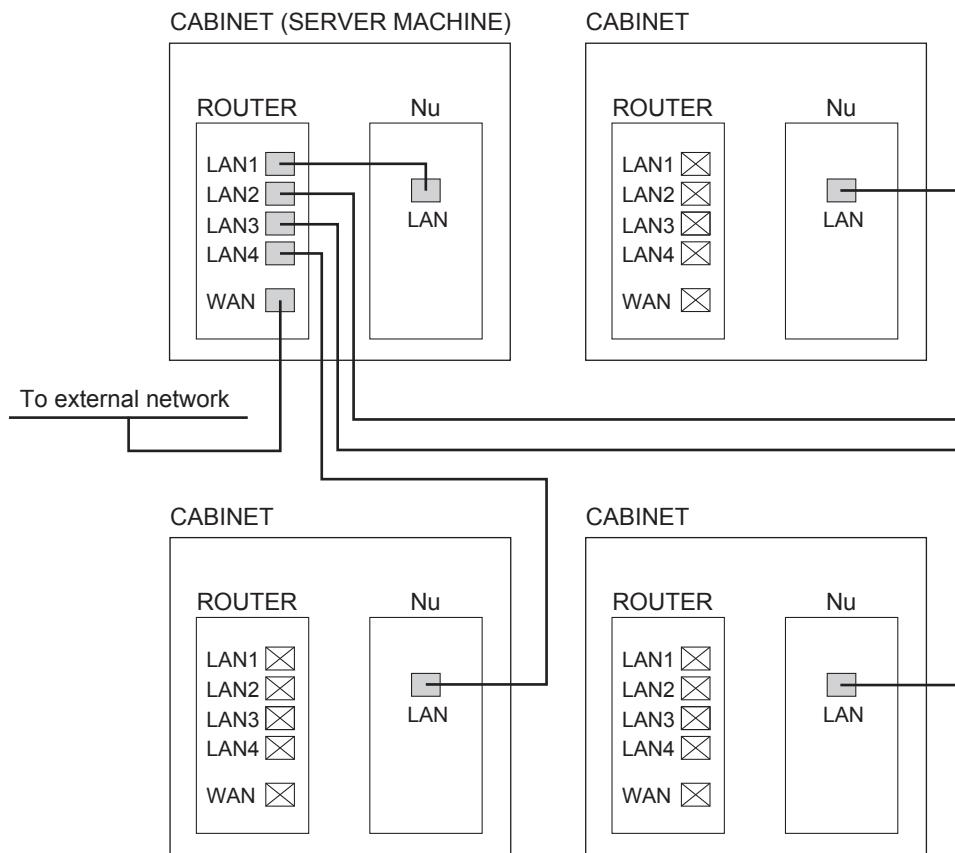
15 cm (5.9 in) (approx.) diameter ring  
CORD CLAMP (1)



- 8** Connect the connector on the opposite side of the LAN cable [50 m (164 ft)] you have connected to the router's WAN port to the external network (ALL.Net).

## 6-4-2 OPERATING MULTIPLE CABINETS

When operating multiple cabinets, 1 cabinet must be set as the server machine. Up to 3 cabinets can be connected to the server machine. (A total of 4 cabinets can be connected.)



6

The following explanation is for connecting 2 cabinets. When connecting 3 or more cabinets, refer to the steps below and work in the same order.

**1**

Install the server machine that connects to the external network device. Refer to "6-4-1" and set 1 cabinet as the server machine.

**2**

Thread the connector of the supplied LAN cable [50 m (164 ft)] of another cabinet through the square hole on the back of the server machine, and connect it to any one of the ports from No. 2 to 4. When doing so, do not connect to the WAN port.

ROUTER PORT No. 2



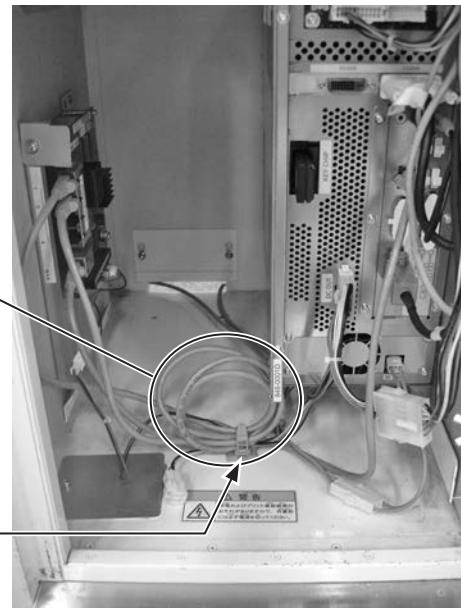
SERVER MACHINE'S ROUTER

- 
- 3** Use 1 cord clamp to secure the LAN cable. To prevent disconnection, make a 15 cm (5.9 in) (approx.) diameter ring with the LAN cable before affixing it.

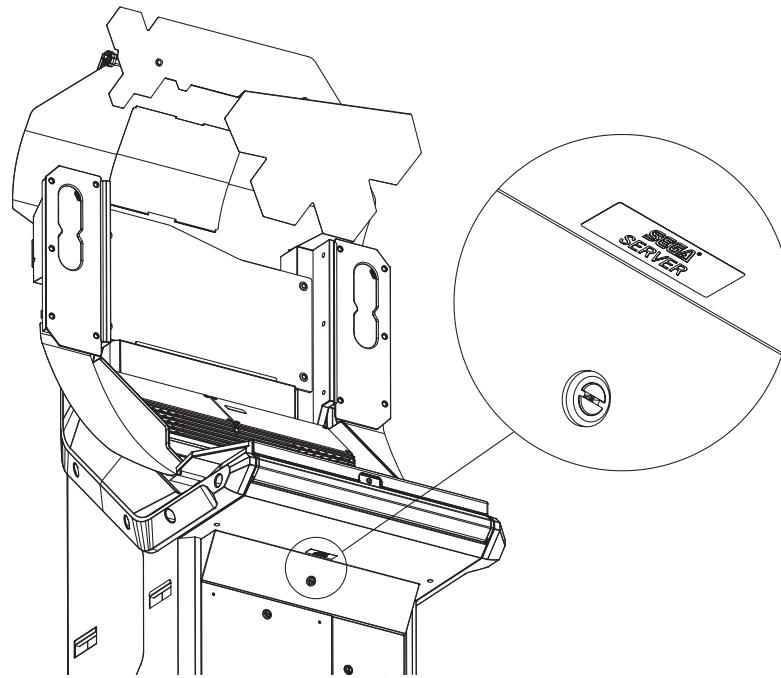
6

15 cm (5.9 in) (approx.) diameter ring

CORD CLAMP (1)



- 
- 4** Affix the "SERVER" sticker to the underside (center) of the server machine's control panel.



"SERVER" STICKER POSITION

- 
- 5** Install cabinets other than the server machine. Refer to Steps 1 to 4 in "6-4-1" and work in the same order.

- 
- 6 Disconnect the 1 connector of the LAN cable connected to the Nu's LAN port.

CONNECTOR (1)  
LAN



6

- 
- 7 Thread one end of the LAN cable [50 m (164 ft)] connected in Step 2 through the square hole on the back of the cabinet, and connect it to the Nu's LAN port.

LAN PORT



- 
- 8 Use 1 cord clamp to secure the LAN cable. To prevent disconnection, make a 15 cm (5.9 in) (approx.) diameter ring with the LAN cable before affixing it. Also, bundle the LAN cable disconnected in Step 6 and secure it with the cord clamp.

15 cm (5.9 in) (approx.) diameter ring

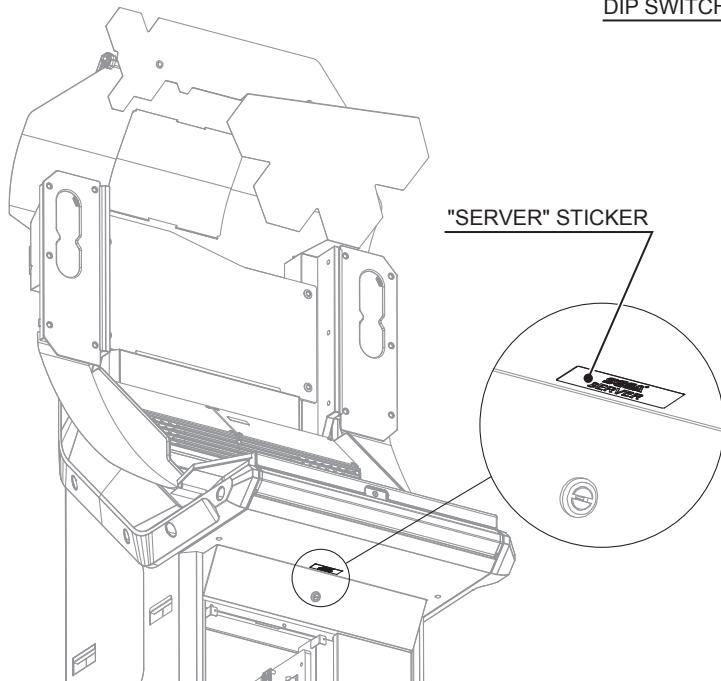
CORD CLAMP (1)



9

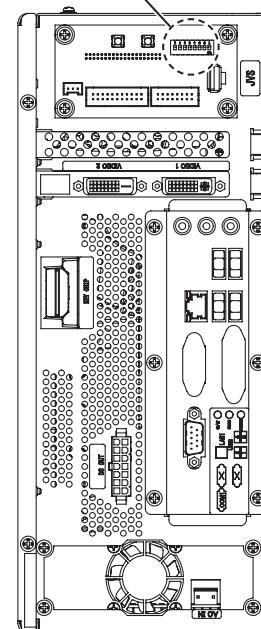
Set the DIP switch number 1 to OFF on each Nu except for that of the server machine.

6



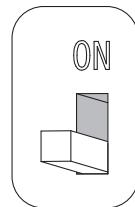
SERVER MACHINE

DIP SWITCH CONFIGURATION

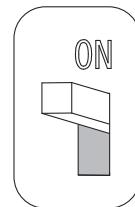


DIP SWITCH CONFIGURATION

### DIP SWITCH SETTING



No.1 is OFF



No.1 is ON

#### DIP SWITCH CONFIGURATION (SERVER MACHINE)

No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8
ON	OFF	OFF	OFF	OFF	OFF	ON	OFF

#### DIP SWITCH CONFIGURATION (ALL CABINETS EXCEPT SERVER MACHINE)

No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8
OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF

## 6-5 ATTACHING THE DVD DRIVE

There is no need to work the following procedure if the software has been installed.  
Proceed to "6-6 CONNECTING THE POWER CABLE AND EARTH."

### ⚠ WARNING

**Be careful not to damage the USB cable for installation or installation cable by getting it caught between objects, etc. Damaged cables may cause an electric shock, short circuit or fire.**

### STOP **IMPORTANT**

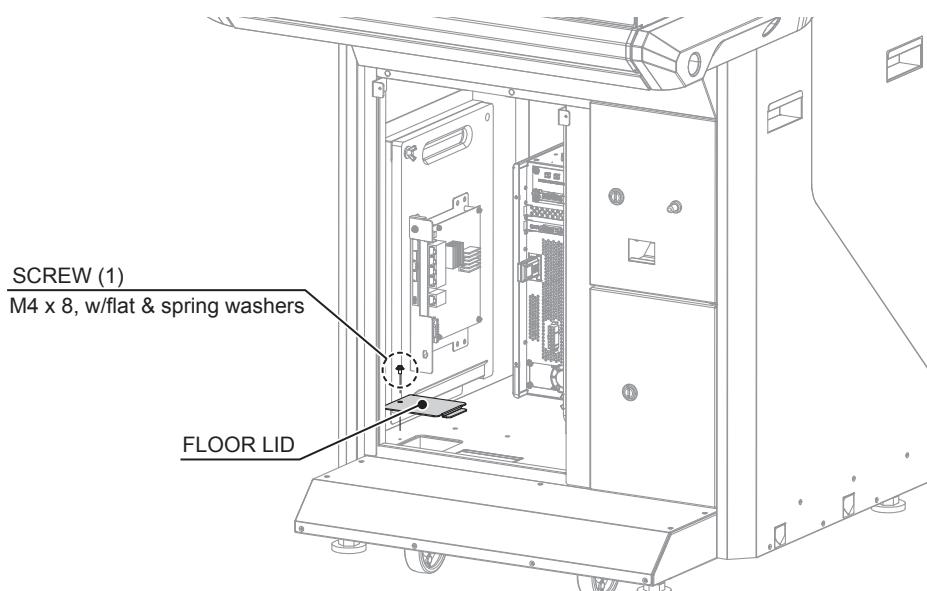
**The DVD cable is not used. Do not connect it to any open connectors.**

To install software on the Nu, connect the DVD drive to the server machine.  
Prepare the USB cable for installation and the installation cable that come with the cabinet, and the DVD drive (sold separately.)

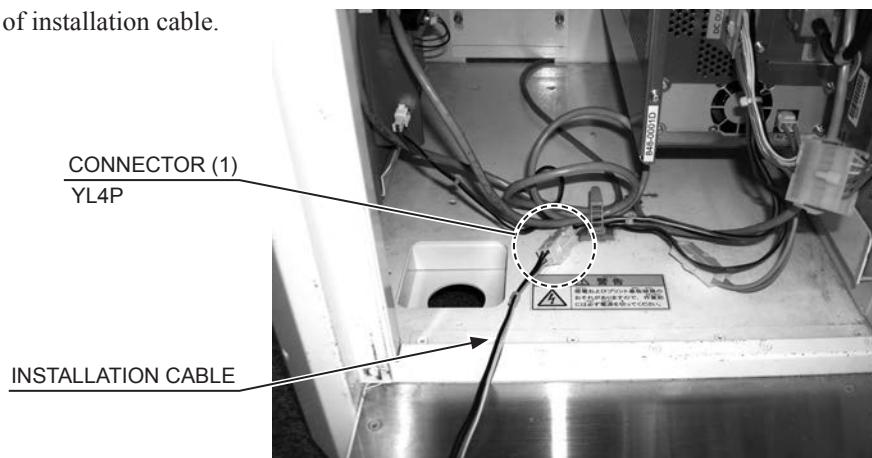
Preparation for software installation is performed only on the server machine.  
When operating multiple cabinets, upon software installation, the cabinet set as the server machine will automatically install software on the other cabinets.  
For safety and to prevent incorrect operation, connect the DVD drive (sold separately) before connecting the power.

**1** Check that the Nu's DIP switch number 1 is ON for the cabinet on which software installation is to be performed (the server machine.)

**2** Remove 1 screw and take off the floor lid. When the floor lid has been taken off, you will see a round hole. The floor lid will be returned to its original position after the software installation has been completed, so do not lose it.

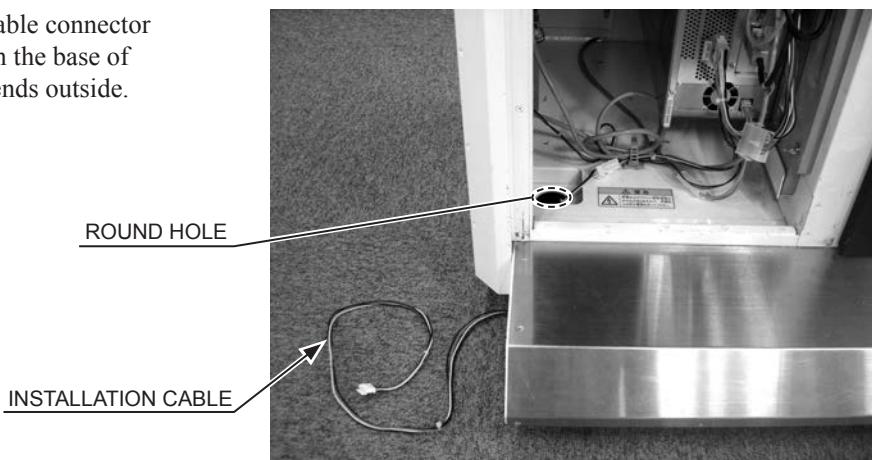


- 3** Connect the 1 connector of installation cable.

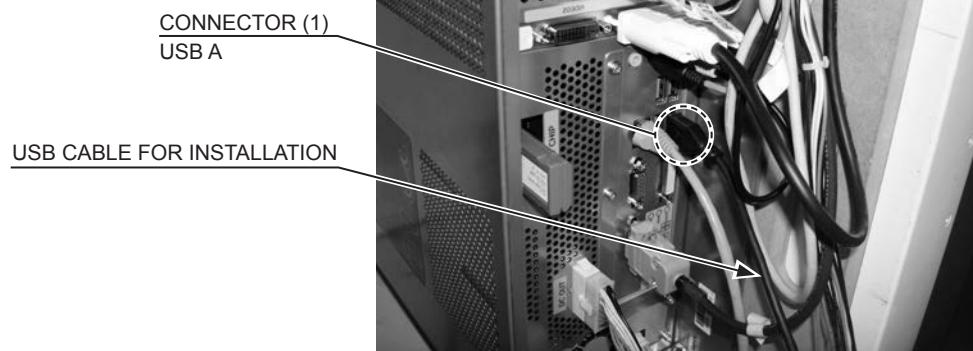


6

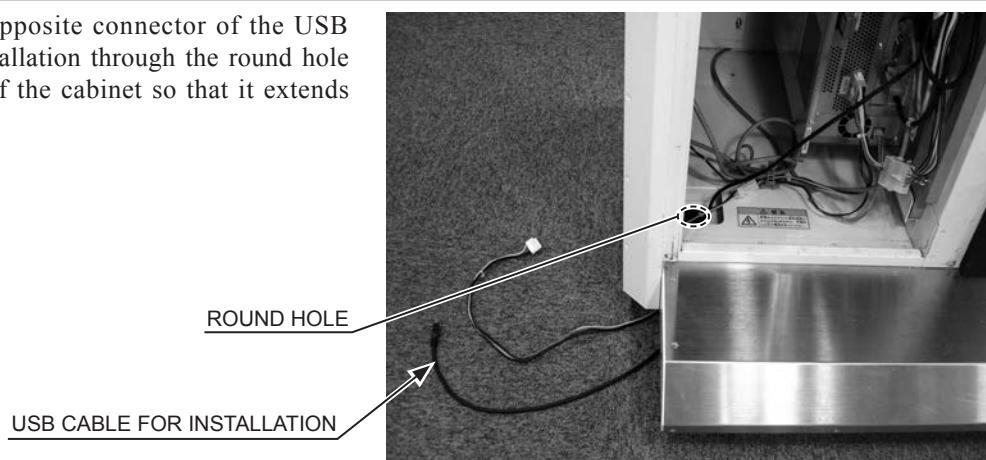
- 4** Thread the installation cable connector through the round hole in the base of the cabinet so that it extends outside.



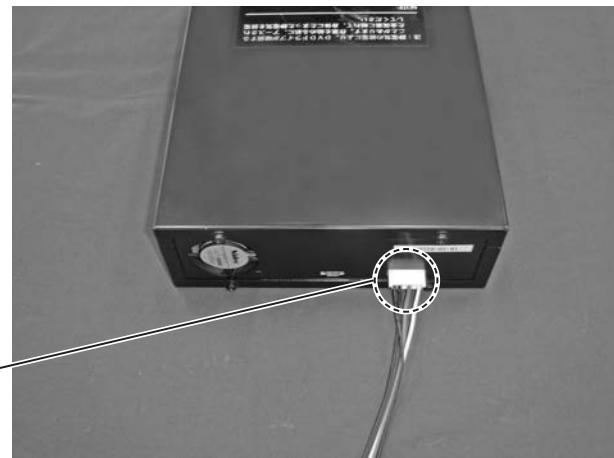
- 5** Connect the 1 connector of the supplied USB cable for the installation to the Nu's USB port.



- 6** Thread the opposite connector of the USB cable for installation through the round hole in the base of the cabinet so that it extends outside.

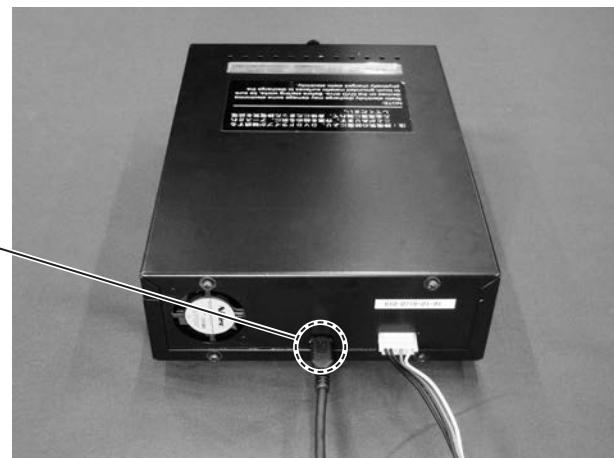


- 
- 7** Connect the installation cable connector extended outside the cabinet in Step 4 to the rear of the DVD drive.

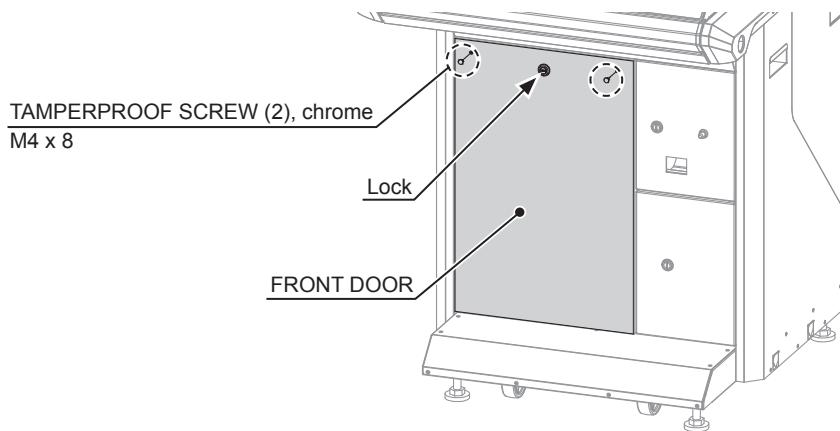


6

- 
- 8** Connect the connector of the USB cable for installation extended outside the cabinet in Step 6 to the rear of the DVD drive.



- 
- 9** Attach the front door. Lock the front door with the master key, and secure it with 2 tamperproof screws. When doing this, ensure that cables do not become caught in the door.



## 6-6 CONNECTING THE POWER CABLE AND EARTH

### **⚠ WARNING**

- Check to see if there are any cuts or dents in the power cable. Damaged power cables may cause an electric shock, short circuit or fire.
- Be sure to use an independent power supply equipped with an earth leakage breaker. Use of power supply without such a breaker could result in fire if there is a current leakage.
- Have available a securely grounded indoor earth terminal. This product is equipped with an earth terminal. Connect it to an earth terminal in the room with the earth cable. Without proper grounding, customers could be electrocuted and product operations might not always be stable.
- Do not expose the power cable or earth cable. If these are exposed, customers could stumble over them, for instance, and easily damage them. Additionally, if these lines are damaged, there could be a risk of electric shock or short circuit. Set these lines at locations where they will not interfere with customer traffic, or attach covers to them.
- When using the AC unit's grounding screw and earth terminal, do not perform grounding while the earth cable is exposed. Doing so may cause an electric shock, short circuit or fire. Be sure to ground the cabinet using an M4 round terminal that is rated at 15 A or higher.

6

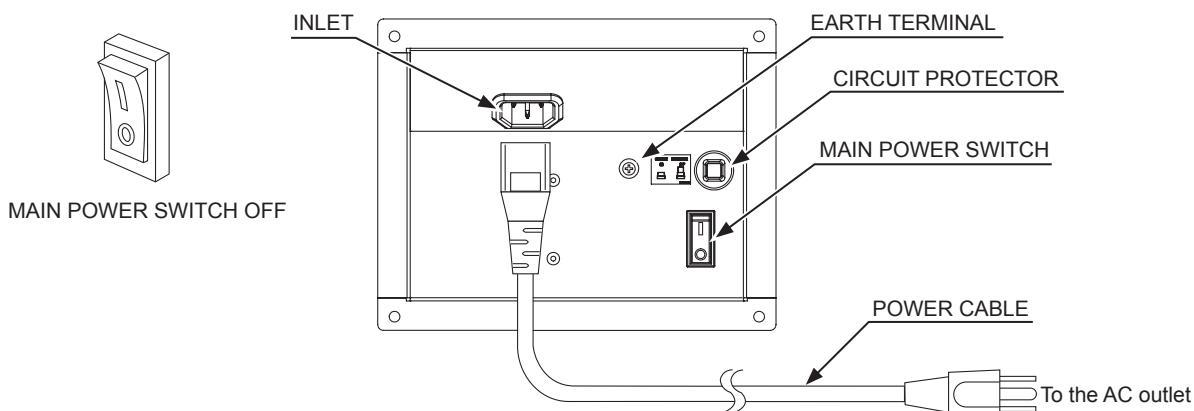
### **STOP IMPORTANT**

If grounding has been established with the ground cable inside the power cable, do not perform grounding with the AC unit earth terminal. Conversely, if the AC unit earth terminal has been used for grounding, do not establish ground with the ground cable in the power cable. Otherwise there could be faulty or erroneous operations.

On the rear face of the cabinet's AC unit, there is a main power switch, circuit protector, grounding screw, and an inlet for connecting the power cable. Be sure to prepare the cabinet accessories and power cable before performing work.

1

Check to see if the main power switch and the sub power switch on the inside of the selector door are OFF.

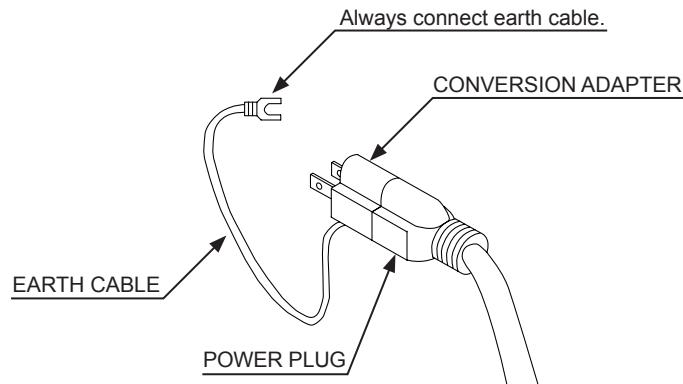


---

**2**

Connect one end of the earth cable to the AC earth terminal, and the other end to the indoor earth terminal. The accessory power cable contains earth cable. Connect power cable to AC unit inlet, and then insert power plug into "power outlet with earth terminal."

*NOTE: When using a conversion adapter sold on the market to provide power, connect the adaptor's earth cable terminal to an "earth terminal that is securely grounded."*



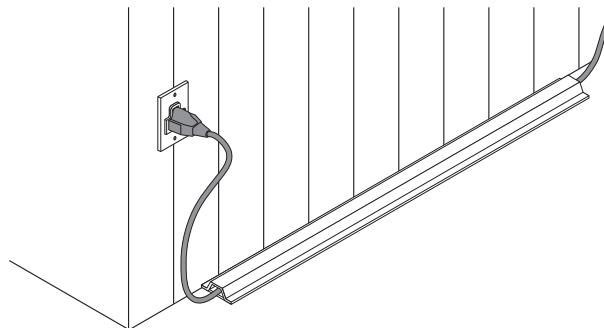
6

<For Taiwan>

---

**3**

The power cable is laid out indoors. Protect the power cable by attaching cable cover to it.



## 6-7 SOFTWARE INSTALLATION

There is no need to work the following procedure if the software has been installed.  
Proceed to "Chapter 7 SET UP."

6

### ⚠ WARNING

- The following explanation assumes that the product has been assembled properly as explained above. If there is an error or if the product operates in a manner other than as indicated below, cut off the power supply immediately. Failure to do so may result in a fire or electric shock.
- If you look directly at the laser beam in the DVD drive, you could suffer vision impairment. Do not look inside the DVD drive.



### IMPORTANT

Do not start any other work until the installation work is complete.

### CAUTIONS REGARDING USE OF DVD DRIVE KIT



### IMPORTANT

- Do not use or store the DVD drive kit in any of the following locations, as this may result in serious damage.

[Do not use or store in these locations.]

- Anywhere which may vibrate or shock the equipment
  - In direct sunlight
  - In damp or dusty places
  - In places with a sharp change in temperature
  - Close to anything that gives off heat (a heater, etc.)
  - Close to anything with a strong magnetic field (magnets, monitor, speakers, radio, etc.)
  - Anywhere that is likely to get wet (kitchen, etc.)
  - Anywhere with a slope or incline
  - Anywhere with corrosive gas in the air (chlorine, hydrogen sulfide, ammonia, sulfur dioxide, etc.)
  - Anywhere with strong static electricity
- [Do not use in these locations.]
- Close to anything that is highly retentive of heat (carpet, sponge, cardboard, etc.)
  - Anywhere that blocks the DVD drive air vent



## IMPORTANT

- The DVD drive is a delicate piece of equipment. Avoid the following.
  - Dropping the DVD drive or exposing it to impact
  - Getting water or other liquids on it, or placing small items on top of it
  - Placing large or heavy items on top of it
  - Drinking or smoking close to the DVD drive
- Do not turn off the power to the DVD drive when its access lamp is on or flashing, as this could cause damage to the device.
- Do not allow any foreign materials, such as liquids, metals or smoke inside the DVD drive.
- Use a soft, dry cloth to wipe off any dirt or marks on the DVD drive.
  - If you need to use a cleaning agent, always use a "neutral" agent diluted in water.
  - Never use products or cleaning agents containing benzene, alcohol, thinners, etc.
- Do not touch the lens inside the DVD drive. Doing so may prevent it from reading accurately.
- Static electricity from your body may damage some electronics devices on the IC board. Before handling the IC board, touch a grounded metallic surface so that the static electricity can be discharged.
- After the power supply is engaged, the DVD drive tray will not come out for about 30 seconds even if you press the switch. This is due to DVD drive initialization.
- The DVD drive tray can come out or return only while the power supply is engaged. The tray cannot be opened or closed while the power is off.
- After software has been installed, be sure to store the DVD software kit, DVD drive kit, installation cable and installation USB cable at a secure location.
- If for any reason installation cannot be completed, an error is displayed. Refer to the Nu Service Manual and take corrective action.

## HANDLING THE DVD

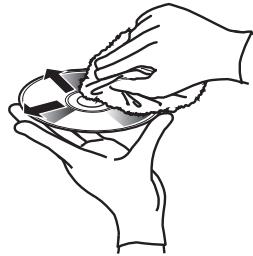


### IMPORTANT

6

- Do not use a DVD with a damaged front. This may cause a malfunction.
- Insert the DVD into the DVD drive with the printed side facing upwards.
- Do not get fingerprints or dust particles on the DVD. Contaminated DVDs may lower audio and video quality, and may result in read malfunctions.
- When cleaning the DVD, do not use volatile chemicals (benzene, thinner, etc.), cleaning sprays, or antistatic agents.
- Do not use DVDs that are in the following conditions, as they may cause malfunctions such as being unable to remove the DVD.
  - Cracked, warped, or damaged DVD
  - DVD with traces of sticker, tape, etc.
  - DVD with paper or sticker attached
- When cleaning a heavily contaminated DVD, use a clean cloth that has been soaked in water and wrung out. After wiping, remove any remaining moisture with a clean, dry cloth.

#### How to Wipe a DVD



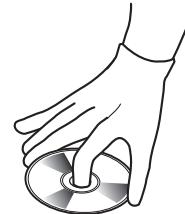
Wipe the DVD with a soft cloth, working from the center outwards.

#### How to Hold a DVD



##### With both hands:

Put your thumbs and forefingers on 4 opposite sides of the DVD.



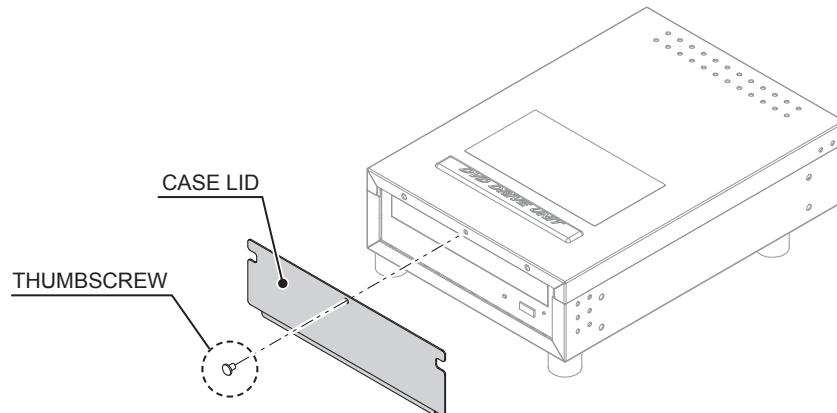
##### With one hand:

Insert your forefinger into the center hole, while placing your thumb and middle finger on opposite sides of the DVD.

Installation takes approximately 45 minutes per cabinet. If you observe a phenomenon not described in this manual after 45 minutes have passed, contact the office listed in this manual.

If a system update is necessary, the system will automatically reboot after software installation is complete, and a system update will be performed. System updates require additional time.

- 
- 1** Remove 1 thumbscrew, and then remove DVD drive case lid.

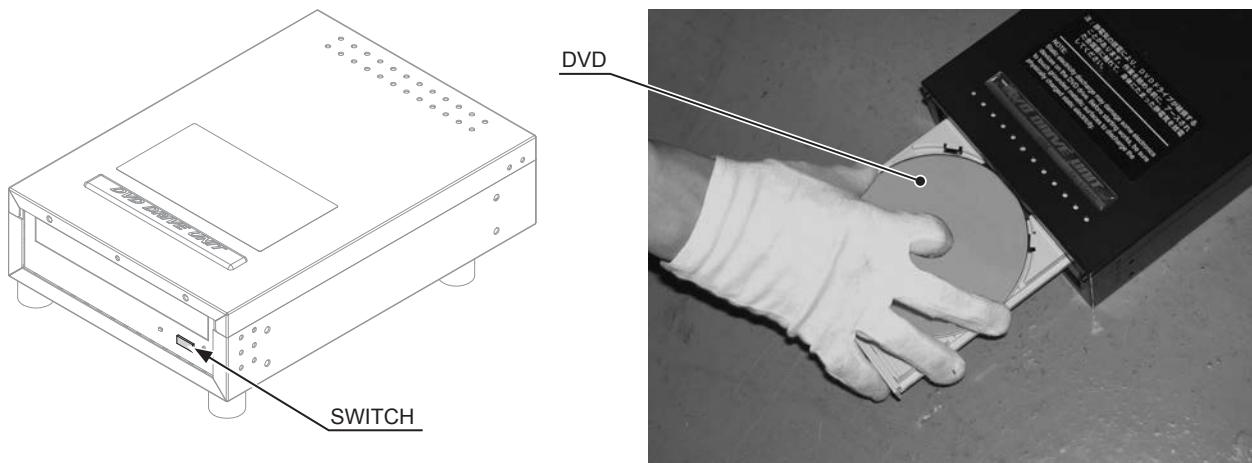


6

- 
- 2** Turn the server machine's main power switch ON.

- 3** Wait for at least 1 minute. "STEP 10 Please Insert Disc 1..." will be displayed on the server machine's screen.

- 4** When the tray opens automatically, set the DVD labeled "Disc.1" from the DVD software kit on the tray. Always have the DVD printed side facing upward.



- 
- 5** Press the DVD drive switch to have the tray return. Software installs automatically from the DVD. During installation, "STEP 10 Please Insert Disc 2..." will be displayed on the screen. When this happens and the tray opens automatically, insert the DVD labeled "Disc.2" and return the tray.

---

## **6 When there is no system update**

When software installation on the server machine is complete, an initialization operation and a network check will be performed automatically, and the advertising screen will be displayed.

### **When there is a system update**

After software installation on the server machine is complete, the system will automatically reboot. A system update will be performed, and the system will reboot again upon completion.

## 7 When there is no system update

Press the DVD drive switch to have the tray come out, and then remove the DVD.

### When there is a system update

When the tray opens automatically, remove the DVD. "STEP 10 Please Insert Disc 1..." will be displayed on the screen, but there is no need to insert the DVD again.

## 8

Press the DVD drive switch to have the tray return. When the power is cut off, the tray will not move.

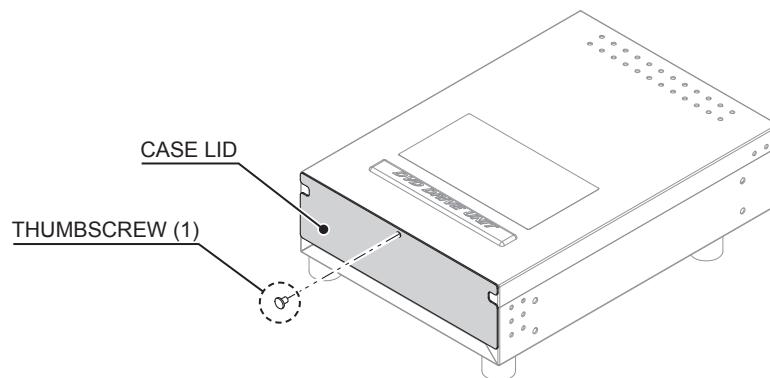
## 9

Turn the server machine's main power switch OFF.

## 10

Insert the case lid into the DVD drive, and secure with 1 thumbscrew.

6

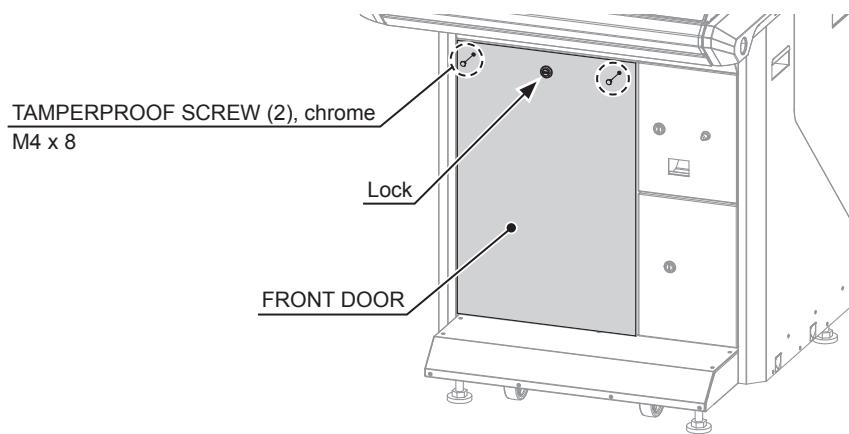


## 11

Refer to Steps 2 to 9 in "6-5," and work in reverse order to remove the DVD drive.

## 12

Attach the front door. Lock the front door with the master key, and secure it with 2 tamperproof screws. When doing this, ensure that cables do not become caught in the door.



## 13

Starting with the server machine, and then moving on to the other cabinets, turn the main power switches ON.

When the server machine starts up, installation will start automatically on the other cabinets connected to the server machine. Do not perform any other operations until the advertising screen is displayed on all cabinets. If there is a system update, each cabinet will reboot 2 times.

## 14

Store the DVD drive kit, USB cable for installation, installation cable and DVD software kit in a location free of dust and cigarette smoke.

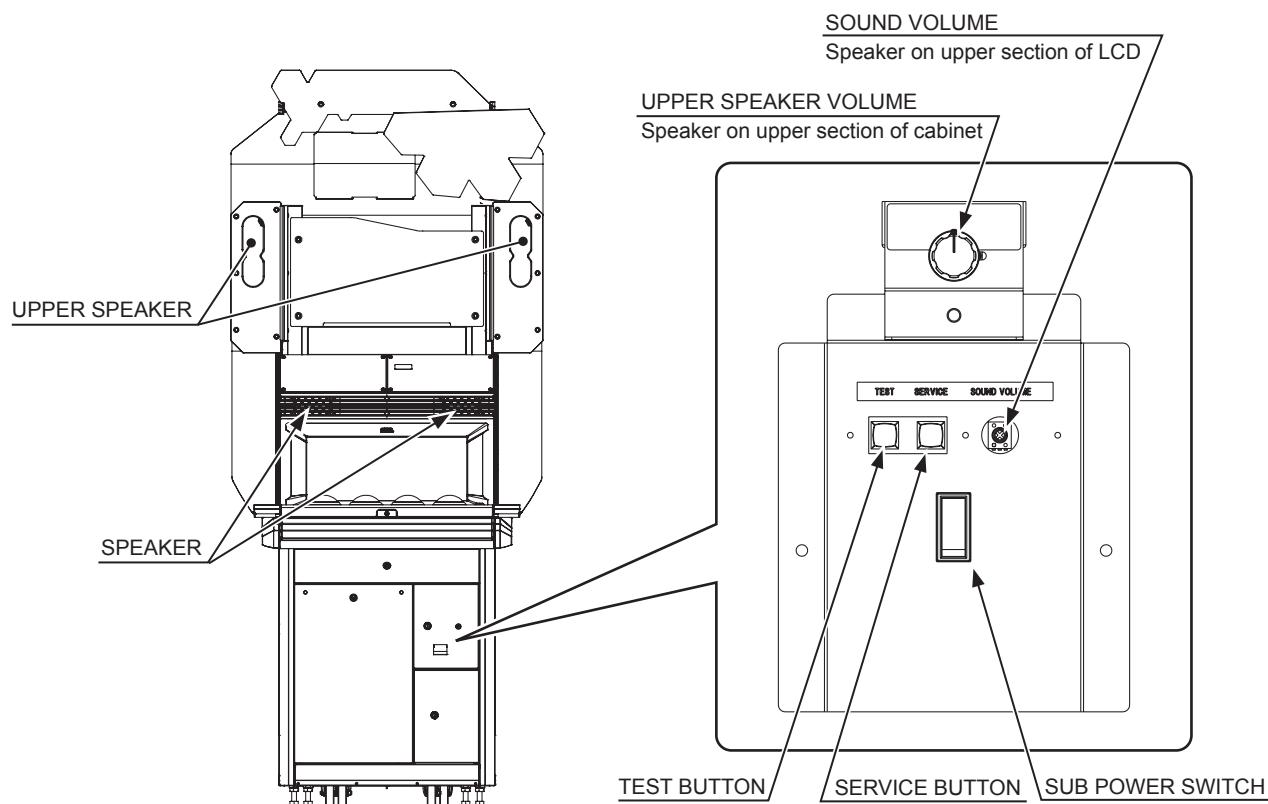
## 7 SET UP

### 7-1 CONFIGURING THE VARIOUS SETTINGS

In TEST MODE, configure and/or adjust the touch panel, store closing settings, and other game settings according to the operating environment. (See 7-1-1/7-1-2, "4-5 GAME ASSIGNMENT" in the Service Manual.)

The TEST Button and SERVICE Button on the inside of the selector door are used for TEST MODE controls.

Also, adjust the volume to an appropriate level via the upper speaker volume and sound volume, taking into consideration the surrounding environment of the installation location.



In SYSTEM TEST MODE, there are items for checking board information and operation, screen adjustment, etc., but the only item used for "初音ミク Project DIVA Arcade Future Tone" is screen adjustment. The other items are normally not used.

Check to see if the screen requires adjustment before adjusting the touch panel. (See Chapter 13, "3-4 MONITOR TEST" in the Nu Service Manual.)

### 7-1-1 ADJUSTING THE TOUCH PANEL

Since the touch panel greatly affects operability, be sure to adjust it. Touch panel adjustments should be performed on all cabinets.

- 
- 1** Press the TEST Button, GAME TEST MENU screen will be displayed.
  - 2** Select TOUCH PANEL SETTING in the GAME TEST MENU screen, press the TEST Button to display the TOUCH PANEL SETTING screen.
  - 3** Select TOUCH PANEL ADJUSTMENT in the TOUCH PANEL SETTING screen, press the TEST Button to display TOUCH PANEL ADJUSTMENT screen and make adjustments. (See "4-9 TOUCH PANEL SETTING" in the Service Manual.)
  - 4** To cancel, press the TEST Button. The previous settings will be restored (data before adjustment), and you will be returned to the TOUCH PANEL SETTING screen.
  - 5** When adjustments are completed, COMPLETE will be displayed. Press the TEST Button to return to the TOUCH PANEL SETTING screen.
  - 6** Select EXIT and press the TEST Button to return to the GAME TEST MODE screen.
-

## 7-1-2 CONFIGURING THE STORE CLOSING SETTING

Configure the store closing setting on all cabinets.

- 
- 1** Press the TEST Button, GAME TEST MENU screen will be displayed.

---

  - 2** Select CLOSE SETTING in the GAME TEST MENU screen, press the TEST Button to display the CLOSE SETTING screen.

---

  - 3** Configure the store closing procedure in the CLOSE SETTING screen. The clock time (current time) will be sent automatically from ALL.Net. (See "4-11 CLOSE SETTING" in the Service Manual.)

---

  - 4** Make changes to the store closing procedure settings, select EXIT and press the TEST Button to return to the GAME TEST MENU screen.

---

  - 5** Selecting EXIT and pressing the TEST Button will end TEST MODE and enable the store closing setting.

---

  - 6** After exiting TEST MODE, initialization and a network check, etc. will be performed automatically.

---

  - 7** Check to see if the advertising screen is displayed on all the cabinets.

## 7-2 DAILY SETUP

### 7-2-1 TURNING ON THE POWER DURING NORMAL OPERATION



#### IMPORTANT

- Turning ON the power to the network communication devices in the wrong order may result in network communication failure. Also, when 1 device is broken or damaged, it can affect a normal, functioning device's network environment.
- During server maintenance, you cannot connect to the network.

7

For normal operation, turn ON the power to the server machine and then to the other cabinets in that order. If the other cabinets are turned ON before the server machine, the in-store network may not operate properly.

When the power is turned ON, the advertising screen will be displayed after device and network checks are performed.

#### REBOOT METHOD

If verification fails with an external network (ALL.Net), or if individual rebooting is necessary, reboot that cabinet. After turning OFF the power and waiting 10 seconds, turn the power ON again.

Verification with ALL.Net is performed on each cabinet individually. The results are displayed via "network icons." A slash through the icon indicates an abnormality.

#### VARIOUS ICONS

"初音ミク Project DIVA Arcade Future Tone" performs verification with ALL.Net.

The results are displayed via network icons in the top right of the screen.

The icons indicate the following conditions according to the verification status.

 (GREEN)	<b>[NORMAL]</b> Indicates that all online services are operating normally.
 (YELLOW)	<b>[WARNING]</b> Indicates that some online services are available.
 (GRAY)	<b>[DISCONNECTED]</b> <ul style="list-style-type: none"> <li>- Indicates that online services are completely unavailable, or that main online services are unavailable.</li> <li>- There is no communication with the database.</li> <li>- Cards and mobile phones cannot be used.</li> </ul>

## 7-2-2 COLLECTING COINS FROM CASH BOX

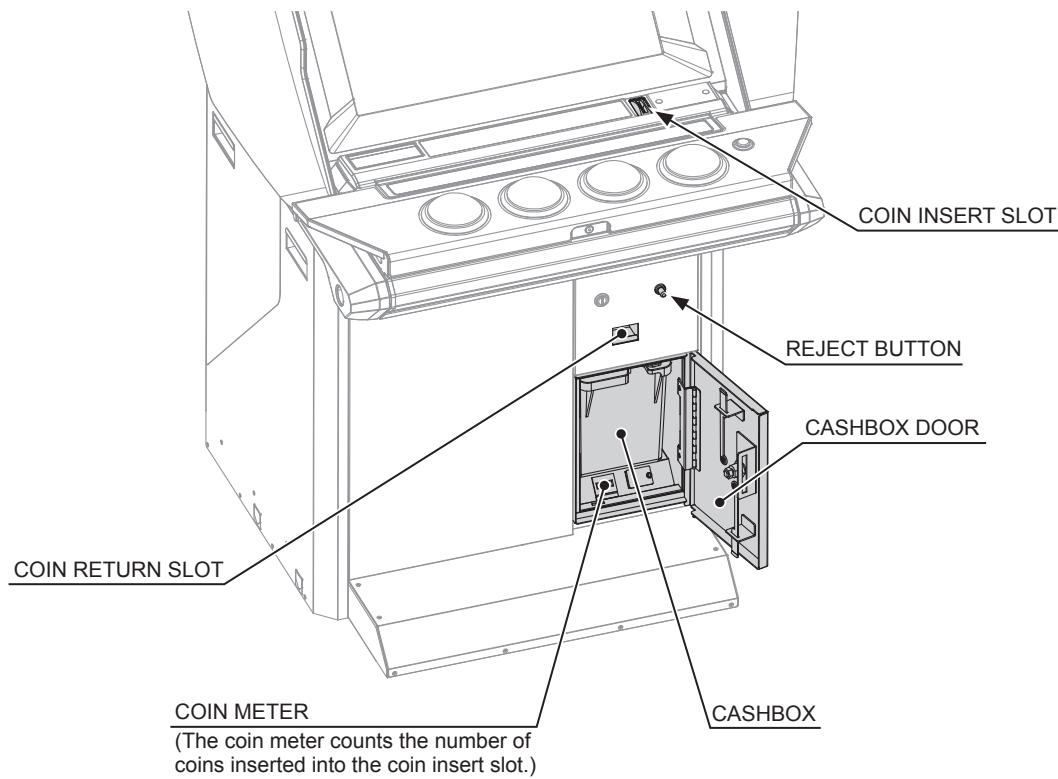


**Removing the coin meter circuitry renders the game inoperable.**

Unlock the cash box door using the key, and the cash box will be inside. The cash box can now be removed. Be sure to collect the coins every day.

*NOTE: Collect coins from all cabinets when multiple cabinets are installed.*

7



## 8 PRECAUTIONS WHEN MOVING THE MACHINE

### ⚠ WARNING

- As used in these instructions, the term "moving" refers to moving of the product within the same building, store or facility. These instructions do not cover moving between different buildings, areas, stores or facilities, since diverse factors are involved, not only packaging but also loading onto transport vehicles, and securing the product in place during transport. To transport the product to a different building or store, contact the office listed in this manual or the point-of-purchase for this product.
- Never disassemble the unit in ways other than those described in this manual. Doing so can cause accidents such as electric shocks, short circuits, and fires.
- When moving the machine, be sure to pull out the plug from the power supply. Moving the machine with the plug still inserted can cause the power cable to be damaged, resulting in a fire and/or electric shock.
- When moving the machine on the floor, retract the adjusters, and ensure that the casters make contact with the floor. Pay careful attention so that the casters do not run over power cable and other cables. Damaging cables can cause an electrocution, short circuit or fire.
- When holding heavy objects, pay special attention to where the object is being held. As much as possible, hold objects by their grips or bottom surfaces. If the object is held by a component of weak material or by an attachment that is not sturdy, the component or attachment could be damaged by the weight of the object, causing the object to drop or fall over, resulting in bodily injuries and/or damages.
- Do not place products where there are surface inclines or level differences. Otherwise the unit could fall over. These units could also move suddenly and cause accidents.

### ⚠ CAUTION

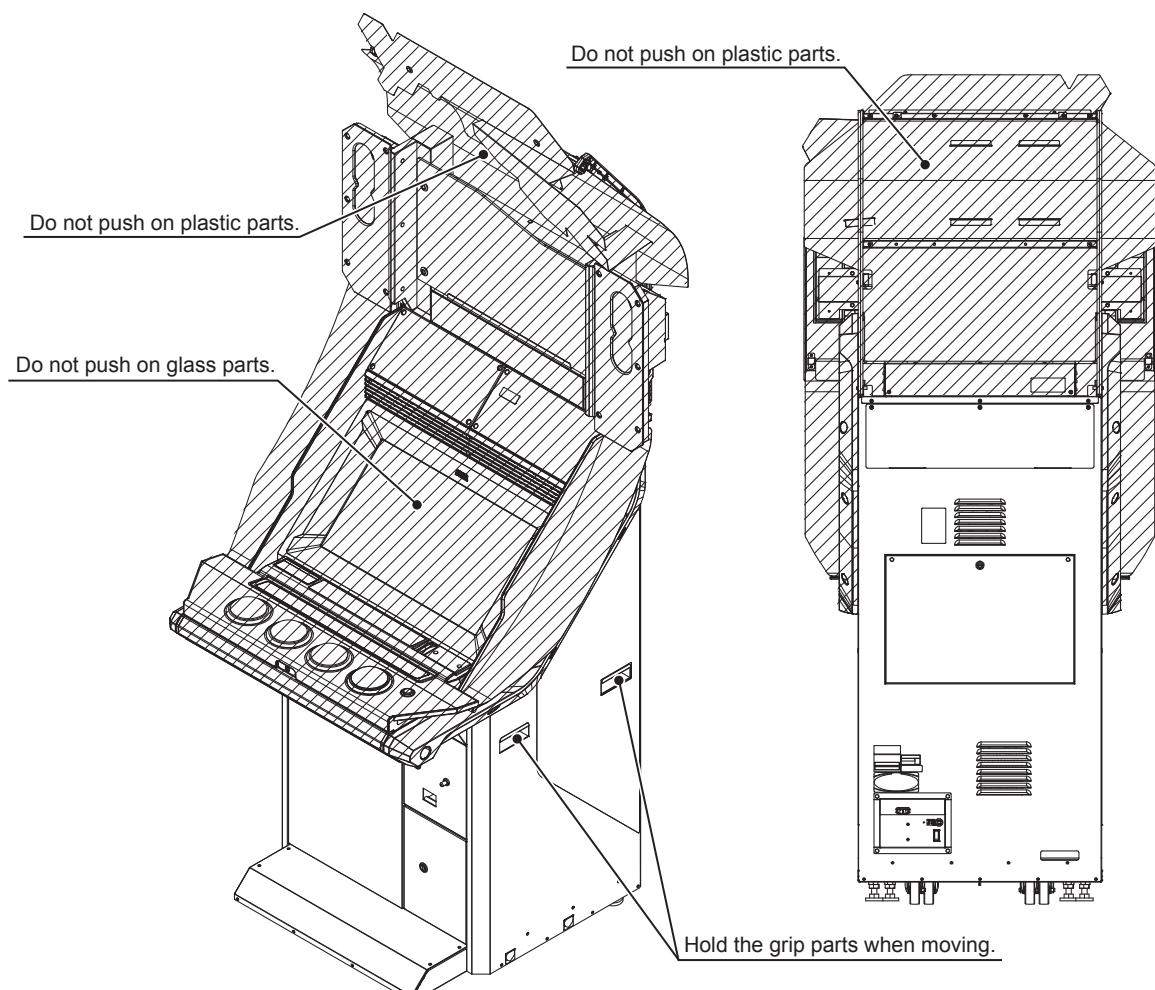
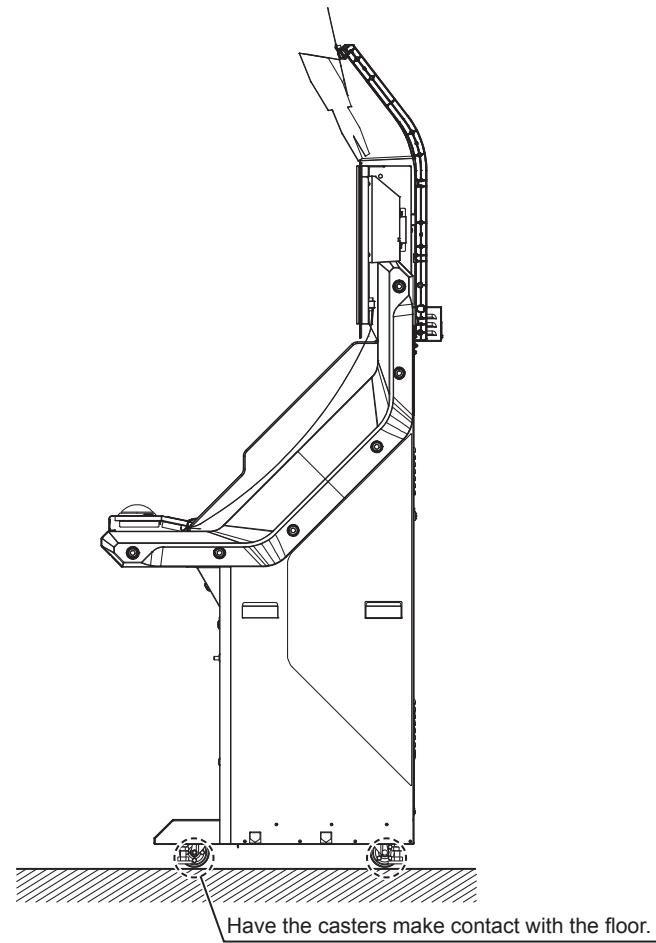
- Be careful in handling glass/plastic parts. If such parts are exposed to excessive loads or impact, they might become damaged, resulting in fragments or cracks that could cause accidental injury.
- When moving the cabinet, do not hold or push any parts other than those designated. Careless handling could cause these parts to break, and broken pieces may cause personal injury.



## IMPORTANT

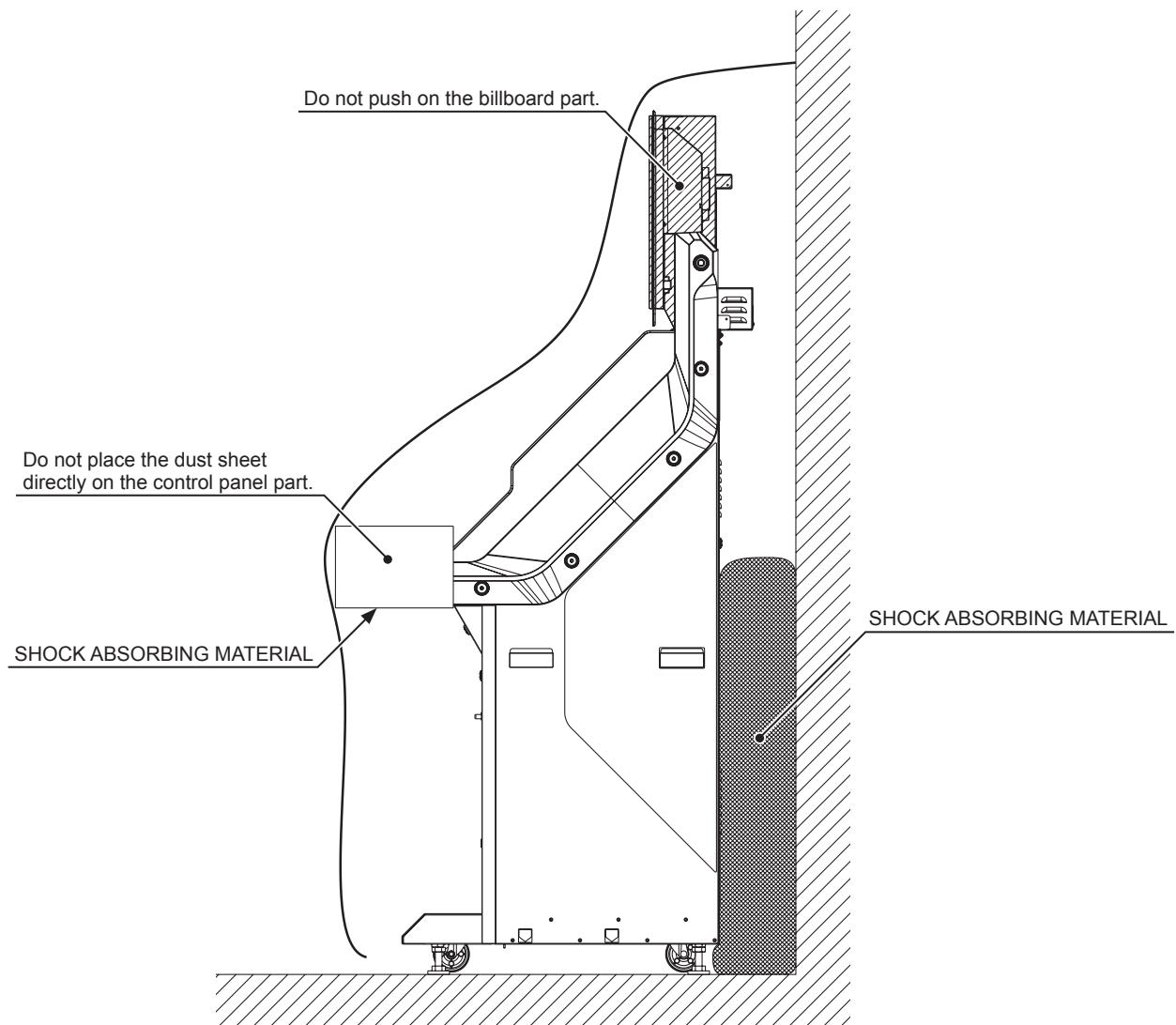
- When turning the server machine's main power switch OFF during operating hours, ensure that there are no players using the connected cabinets before doing so. Once the main power switch is turned OFF, network transmissions are no longer possible.  
Furthermore, start the server machine before powering up each cabinet. If the server machine is started afterward, the in-store network may not operate correctly.
- To prevent scratches on the surface, do not allow rope to come into direct contact with the surface of the cabinet. Use a protective layer between the rope and the cabinet.
- Moving casters over the floor surface can damage the floor, depending on its material. Have available a mat for moving casters over the floor. If there is a rug or carpet on the floor, remove it before moving the unit.

8



## CAUTION WHEN TRANSPORTING

Do not apply force on the upper section of the billboard. Doing so may result in damage.



## 9 PERIODIC INSPECTION

In order to maintain the performance of this product and operate it safely, inspect the following items routinely and perform maintenance.

### ⚠ WARNING

- This work involves touching the internal parts of the product and should be carried out by site maintenance personnel or other qualified professionals. Work performed by non-technical personnel can cause a severe accident such as electric shock.
- Be sure to check once a year to see whether power cables are damaged, the plug is securely inserted, dust has accumulated between the socket outlet and the power plug, etc. Using the product with accumulated dust can cause an electric shock and fire.
- Periodically, around once a year, get in touch with the office listed in this manual or the point-of-purchase for this product regarding internal cleaning. Using the product with accumulated dust in the interior can cause a fire or accident. Note that professional cleaning will require a fee.
- There is the danger of accidents involving electrical short circuits or fire caused by factors such as the deterioration of insulation in electrical and electronic equipment over time. Check that there are no anomalies such as odors from burning.
- Do not use a water jet (high pressure washing device) or hose to clean this product. It was not designed to be cleaned by a water jet. Water could get inside and cause an electric shock, short circuit or fire. The product could also be damaged in such a way that it is difficult to repair.
- Clean the Nu once a year. If the game board is used as-is with dust built up inside, it could result in malfunction, fire or other accidents.



### IMPORTANT

When turning the server machine's main power switch OFF during operating hours, ensure that there are no players using the connected cabinets before doing so. Once the main power switch is turned OFF, network transmissions are no longer possible. Furthermore, start the server machine before powering up each cabinet. If the server machine is started afterward, the in-store network may not operate correctly.

## PERIODIC INSPECTION TABLE

PERIOD	ITEMS	DESCRIPTION	REFERENCE
As appropriate	CABINET SURFACES	Cleaning	See below (P. 59)
	TOUCH SLIDER SURFACES	Cleaning, inspection	11-1 (P. 64)
	ELECTRONIC/ELECTRICAL PARTS	Inspection	Previous page (P. 58)
Daily	CABINET	Confirm that adjusters contact floor	6-3 (P. 29)
		Inspection of openings, gaps, and the door etc. on the front of the cabinet	
Weekly	LCD (TOUCH PANEL)	Cleaning the touch panel surface	13-2 (P. 78)
Monthly	LCD	Adjustment confirmation	13-3 (P. 79)
	TOUCH SLIDER, BUTTON, SWITCH	Input/output test	S/M 4-3/4-4
	SPEAKER	Speaker volume inspection	S/M Chapter 2
		Output test	S/M Chapter 3
	HEADPHONE SOCKET	Headphone socket inspection	S/M Chapter 3
	COIN SELECTOR	Coin insertion test	14-2 (P. 102)
Nu	Nu	Setting check	Nu - S/M Chapter 3
Every 3 months	COIN SELECTOR	Cleaning	14-3 (P. 103)
1 year	Nu	Cleaning	15-1 (P. 107), 15-2 (P. 110)
	POWER PLUG/CABLE	Inspection, Cleaning	Previous page (P. 58)
	CABINET INTERIOR	Cleaning	Previous page (P. 58)

9

## NOTES:

- "S/M" refers to the Service Manual (420-7461-01) provided with the cabinet.
- "Nu - S/M" refers to the Nu Service Manual (420-7462-01) supplied with the cabinet.

**CLEANING THE CABINET SURFACE**

When the cabinet surfaces become dirty, remove stains with a soft cloth soaked in water or diluted (with water) chemical detergent and then wrung dry. To avoid damaging the finish, do not use such solvents as thinner, benzene, etc. (other than ethyl alcohol) or abrasives (bleaching agent and chemical dust-cloth).

Some general-purpose household, kitchen, and furniture cleaning products may contain strong solvents that degrade plastic parts, coatings, and print. Before using any cleaning product, read the product's cautionary notes carefully and test the product first on a small area that is not highly visible.

## 10 TROUBLESHOOTING

### WARNING

- This work should be performed by site maintenance personnel or other qualified professionals. If there is no site maintenance personnel or other qualified professionals available, turn the power off immediately, and contact the office listed in this manual or the point-of-purchase for this product.
- If problems other than those covered in this manual arise, or if no improvements can be noted after measures given in this manual have been taken, do not take measures indiscriminately. Cut off the power immediately and contact the office listed in this manual or the point-of-purchase for this product. Indiscriminate countermeasures could lead to unforeseeable accidents. They could also result in permanent damages.
- After the cause of circuit protector activation has been removed, have the circuit protector re-engaged. If the unit is used continuously as is, there could be heat generation or fire, depending on the cause of the activation.

10



### IMPORTANT

- When turning the server machine's main power switch OFF during operating hours, ensure that there are no players using the connected cabinets before doing so. Once the main power switch is turned OFF, network transmissions are no longer possible.  
Furthermore, start the server machine before powering up each cabinet. If the server machine is started afterward, the in-store network may not operate correctly.
- If an error occurs, identify and resolve the cause before starting operation again. If left alone and operation is resumed, it could cause more frequent errors or critical parts damage. (See Chapter 5 in the Service Manual.)
- Static electricity from your body may damage some electronics devices on the IC board. Before handling the IC board, touch a grounded metallic surface so that the static electricity can be discharged.
- If you receive an error number or message not listed in this manual, stop using the product and contact the office listed in this manual or the point-of-purchase for this product.

If a problem occurs, first check the connections of the connectors. (See Chapter 20.)

If "初音ミク Project DIVA Arcade Future Tone" detects any abnormalities in the Nu or the input/output devices, an error will be displayed. Check the error display and deal with the error appropriately.  
(See Chapter 5 in the Service Manual, Chapter 4 in the Nu Service Manual.)

#### NOTES:

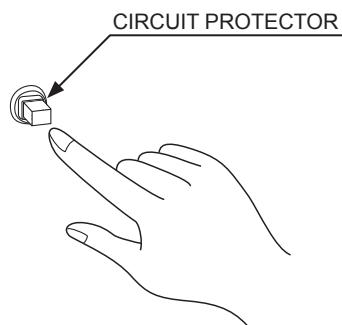
- "S/M" refers to the Service Manual (420-7461-01) provided with the cabinet.
- "Nu - S/M" refers to the Nu Service Manual (420-7462-01) supplied with the cabinet.

PROBLEMS	CAUSE	COUNTERMEASURES
<b>With power switch ON, no activation.</b>	Power is not supplied.	Insert the power plug all the way into the outlet.
	Power supply/voltage is not correct.	Provide correct power supply voltage.
	The circuit protector functioned due to the momentary overload.	After the cause of the overload has been eliminated, restore the circuit protector. [See below (P. 62).]
	The main power switch or the sub power switch is turned OFF.	Ensure the main power switch and the sub power switch are turned ON.
<b>There is no sound.</b>	Volume not properly adjusted.	Adjust the sound volume and the upper speaker volume. (See S/M Chapter 2.)
	Board, amplifier and speaker malfunctioning.	Contact the office listed in this manual or the point-of-purchase for this product.
	Settings are incorrect.	Set the advertising mode (waiting for players) sound output to something other than "OFF." (See S/M 4-5.)
<b>Sound is emitted but no image appears on the monitor (completely black).</b>	Monitor malfunctioning.	Replace the monitor. [See 13-4 (P. 86).]
<b>Screen colors and/or brightness are strange.</b>	Screen adjustments are inappropriate.	Adjust settings as appropriate. [See 13-3 (P. 79).]
<b>Control panel button's responsiveness is unsatisfactory.</b>	The switch at the base of the button is faulty.	Replace the button. [See 12-1 (P. 71), 12-2(P. 73).]
<b>Touch slider unresponsive.</b>	Touch slider malfunctioning.	Replace the touch slider. [See 11-2 (P. 64).]
<b>Touch slider does not slide effectively.</b>	Slider film abrasion.	Replace the slider film. [See 11-3 (P. 69).]
<b>Touch-type card reader failure.</b>	Using invalid card or mobile phone that is not compatible with Osaifu-keitai.	Use valid Aime card or mobile phone that is compatible with Osaifu-keitai. (See S/M Chapter 1.)
<b>There is a problem with coin insertion.</b>	Connector connection is faulty.	Check connector connections. [See Chapter 20 (P. 173).]
<b>Billboard lamp or side lamp L/R does not light up.</b>	LED board is damaged.	Contact the office listed in this manual or the point-of-purchase for this product.
<b>The screen is stuck on the setup screen and will not progress to the advertising screen. (ERROR displayed)</b>	Nu settings are incorrect or the unit is faulty.	Refer to the Nu service manual. (See Nu – S/M Chapter 4.)
<b>Touch panel responsiveness is unsatisfactory.</b>	Dirt on the screen.	Cleaning the screen. [See 13-2 (P. 78).]
	Adherence of water.	Wipe off water that has adhered to the touch panel.

PROBLEMS	CAUSE	COUNTERMEASURES
<b>Touch panel responsiveness is unsatisfactory.</b>	Dirt between the touch panel and the monitor mask.	Clean between the touch panel and the monitor mask. [See 13-6 (P. 98).]
	Foreign object between the touch panel and the monitor mask.	Check whether the touch panel and the monitor mask fit together correctly, and if a foreign object has adhered to a part, remove the object. [See 13-6 (P. 98).]
	Touch panel adjustments are incorrect.	Confirm whether reading is possible in TEST MODE. (See S/M 4-9.)
<b>Touch panel is unresponsive.</b>	Dirt on the screen.	Cleaning the screen. [See 13-2 (P. 78).]
	Large touch	Touch an area of approximately 20 mm (0.8 in) square or less when using the screen. (See S/M 1-1-2.)
	Double touch	The screen will not respond if you touch 2 or more areas at once. Only touch 1 area at a time. (See S/M 1-1-2.)
	Dirt between the touch panel and the monitor mask.	Clean between the touch panel and the monitor mask. [See 13-6 (P. 98).]
	Touch panel malfunctioning.	Replace the touch panel. [See 13-5 (P. 94).]
<b>Cannot conduct network play.</b>	Mistake in server machine settings.	Configure settings correctly. [See "DIP SWITCH SETTING" in 15-3 (P. 113).]
	LAN cable is not fully connected. LAN cable connection is faulty.	Correct connection of LAN cable. [See 6-4 (P. 31).]
	Damaged LAN cable.	Replace the LAN cable. [See 6-4 (P. 31).]
	Router malfunctioning.	Contact the office listed in this manual or the point-of-purchase for this product.

## CIRCUIT PROTECTOR

Functions due to the activation of bimetal. To restore the function, wait for approximately one minute or longer until the bimetal cools off. (Press the button.)



## 11 TOUCH SLIDER

### ⚠ WARNING

- This work should be performed by site maintenance personnel or other qualified professionals. Work performed by non-technical personnel can cause a severe accident such as an electric shock.
- Before starting work, be sure to turn the power off. Working without turning the power off can cause an electric shock, short circuit or fire.
- Be careful not to damage the cables. Damaged cables may cause an electric shock, short circuit or fire.
- Be careful not to lose any fasteners (screws, nuts, or washers) during work. A metallic fastener dropped on an electrified section may cause an electric shock, short circuit or fire.

### ⚠ CAUTION

- When opening/closing or attaching/removing doors or other parts, be careful that your hands or fingers do not get caught in anything.
- If all affixed fasteners (screws, nuts, and washers) are removed, parts will fall off and cause accidents. Ensure that parts are firmly supported when removing affixed fasteners.
- Be careful in handling plastic parts. If such parts are exposed to excessive loads or impact, they might become damaged, resulting in fragments or cracks that could cause accidental injury.
- When fastening plastic parts, be careful not to tighten screws and nuts excessively. Failure to observe this may damage the parts and cause injury due to fragments resulting from damage.
- Take care when handling parts inside the control panel. Ensure that no damage, warping, or loss occurs. Missing parts may result in accidents leading to damage or malfunction.

## 11-1 CLEANING THE TOUCH SLIDER

### STOP IMPORTANT

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

Clean the surface of the touch slider as appropriate.

11

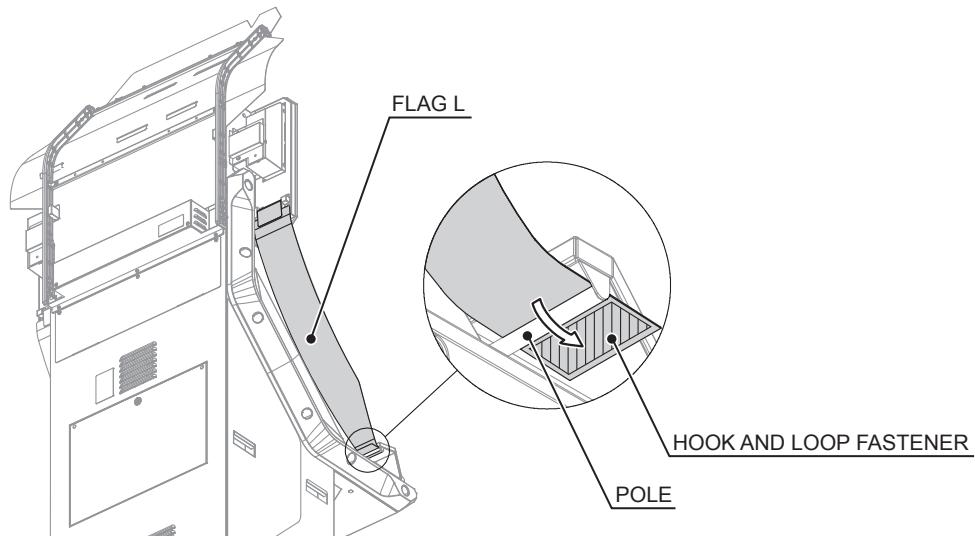
## 11-2 REPLACING THE TOUCH SLIDER UNIT

1

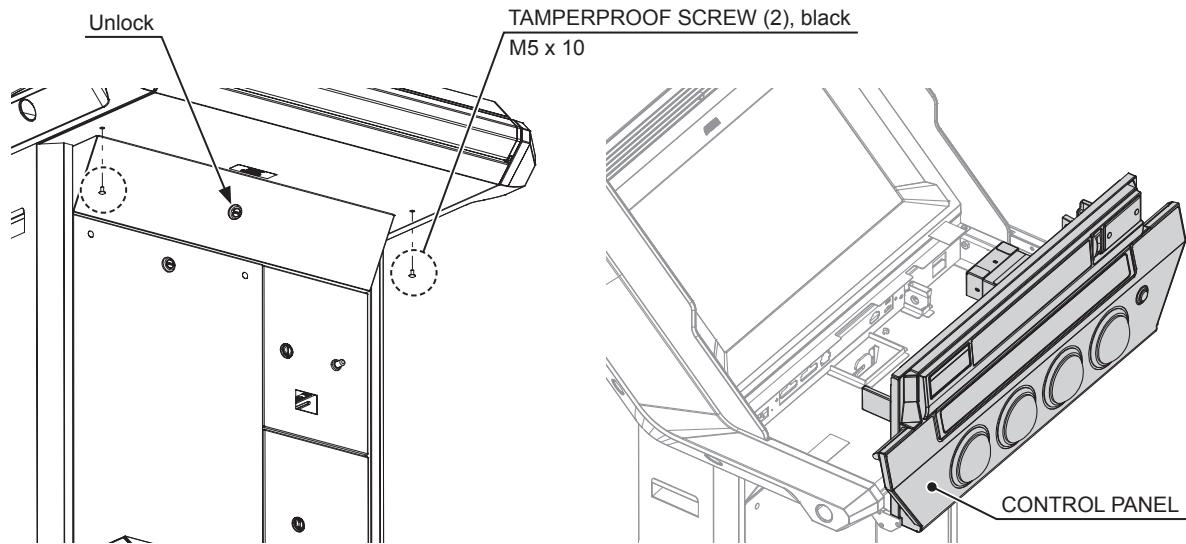
Turn OFF the main power switch on the cabinet.

2

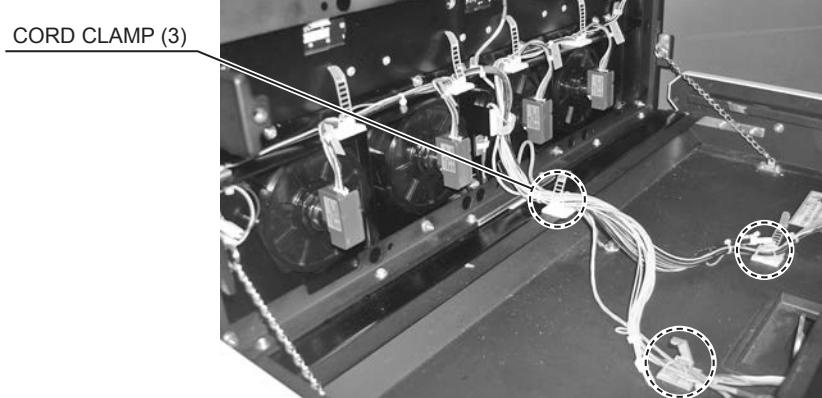
Remove the hook and loop fastener from the base of flag L and remove the flag from the pole on the control panel. Take off the flag R from the other side in the same manner.



- 
- 3** Remove 2 tamperproof screws. Unlock the control panel with the master key and then open it.

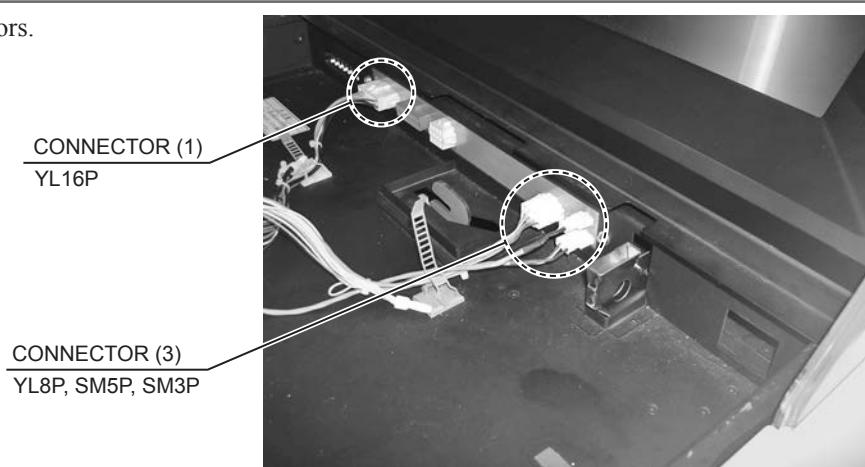


- 
- 4** Undo 3 cord clamps.

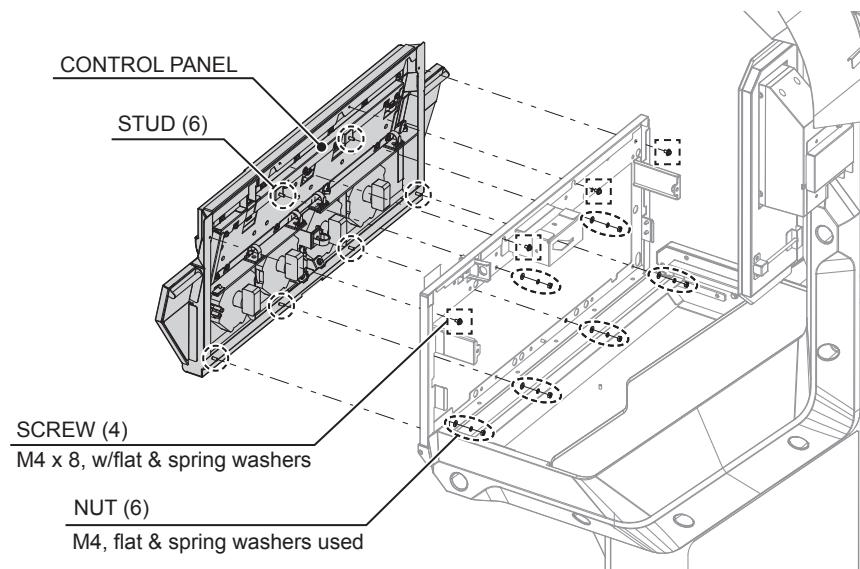


11

- 
- 5** Disconnect the 4 connectors.



- 6** Remove 4 screws and 6 nuts, take off the control panel.

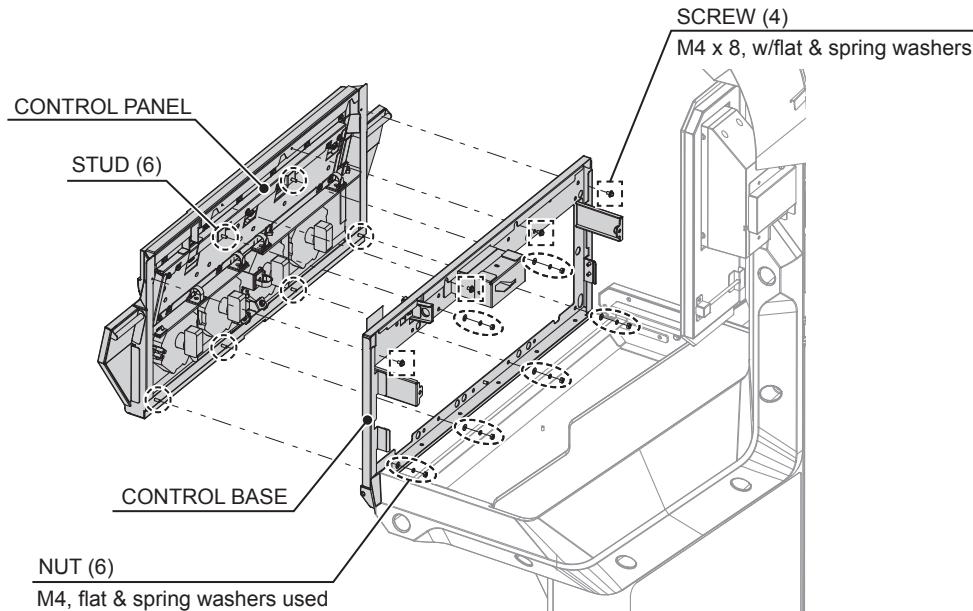


#### NOTE WHEN ATTACHING CONTROL PANEL

11

When attaching the control panel, insert the control panel's studs into the holes of the control base and affix with 4 screws and 6 nuts. When doing this, support the control base, and take care not to catch your hands or any cables.

*NOTE: Use 2 or more workers when performing this task.*

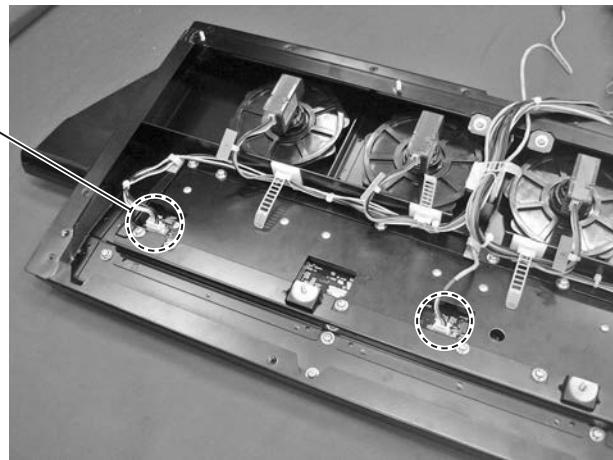


- 7** Place the control panel upside down on a flat surface.

**8**

Disconnect the 2 connectors.

CONNECTOR (2)  
XA3P, XA4P

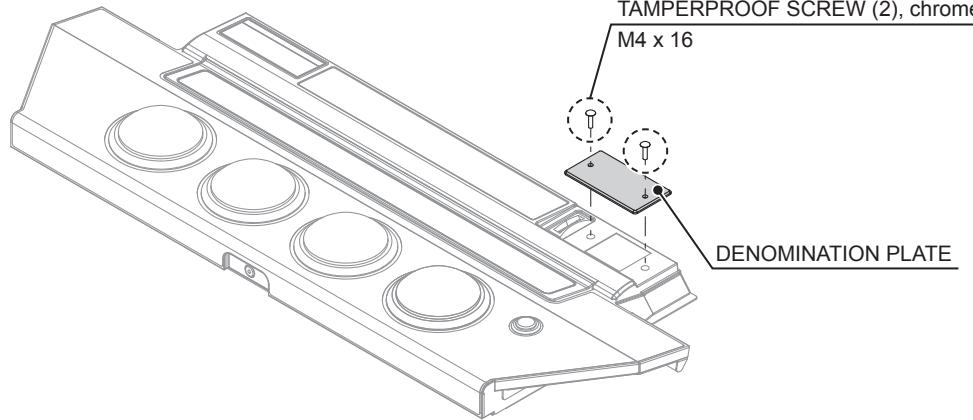
**9**

Remove 2 tamperproof screws and take off the denomination plate.

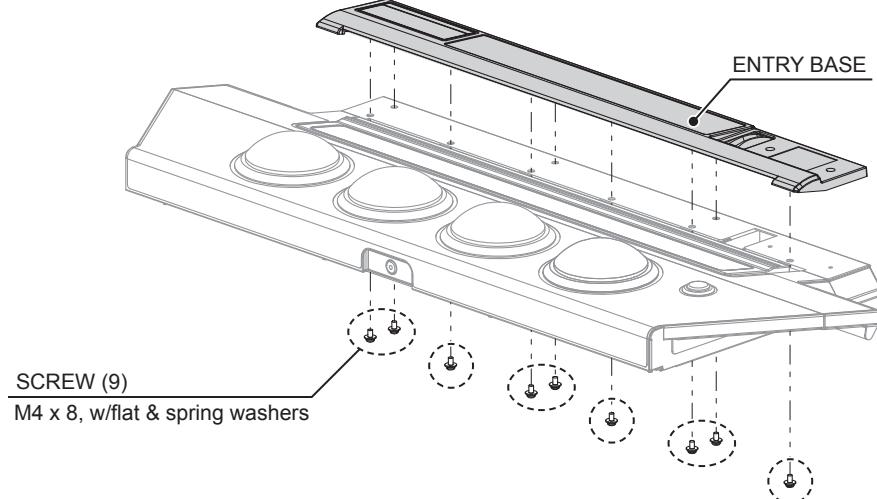
TAMPERPROOF SCREW (2), chrome  
M4 x 16

DENOMINATION PLATE

11

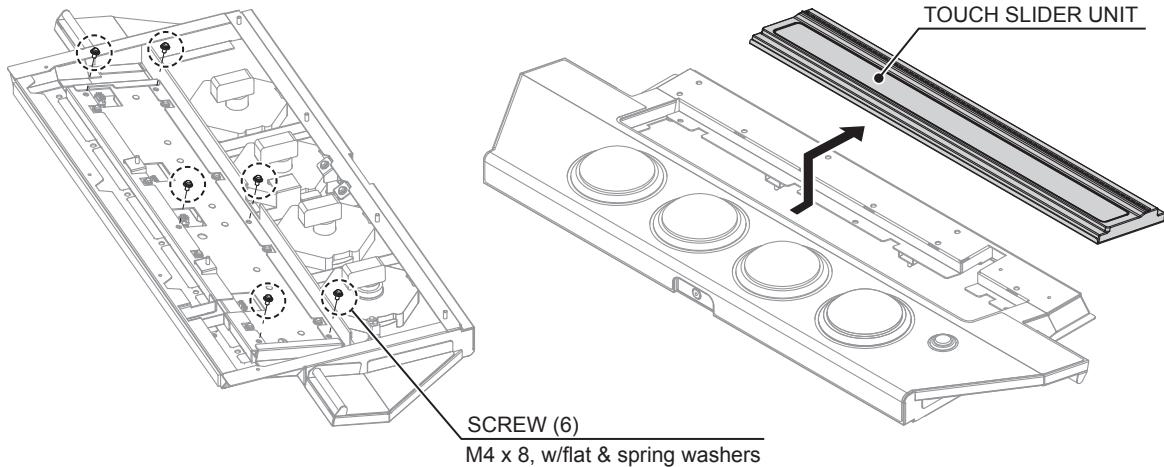
**10**

Remove 9 screws and take off the entry base.



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**11** Remove 6 screws and take off the touch slider unit.



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**12** Refer to Steps 2 to 11 and work in reverse order to attach the replacement touch slider unit, and reassemble the cabinet.

### 11-3 REPLACING THE SLIDER FILM

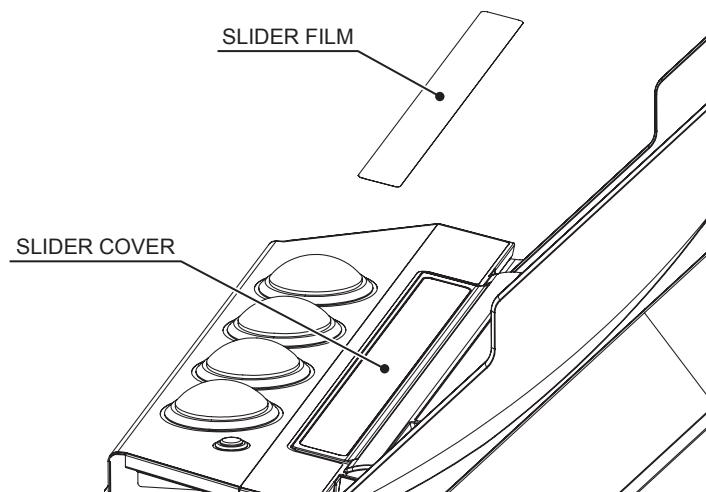
**STOP** **IMPORTANT**

Undertake this task carefully to ensure that there are no air pockets or dust under the film.

If there is any debris on the film's adhesive surface, apply tape to the affected areas and peel it off to remove the debris.

**1** Turn OFF the main power switch on the cabinet.

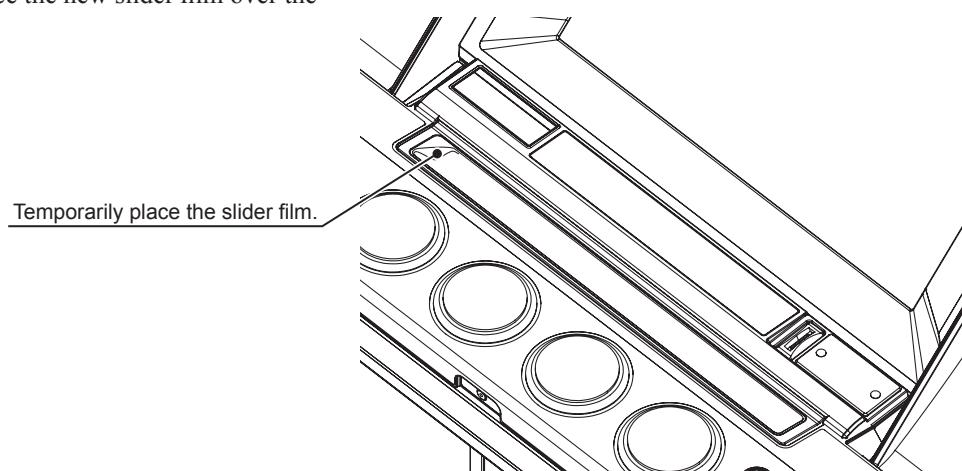
**2** Remove the slider film from the slider cover. When doing this, grasp the edge of the slider film and peel it off slowly. Also, take care that the slider cover does not become scratched or dirty.



11

**3** If there is any adhesive remaining on the slider cover, use a cloth to remove it. Do not use chemical detergents or other chemical agents under any circumstances.

**4** Temporarily place the new slider film over the slider cover.



**5** Slightly peel back the separate paper, and affix one edge of the slider film. Slowly affix the remainder of the slider film, peeling off the separate paper as you go and ensuring that there are no air pockets.

If there are air pockets under the film, or if the film is crooked, peel it off and reposition it.

The slider film is thin and easily scratched and creased, so be sure to peel it off slowly when repositioning it.

## 12 CONTROL PANEL

### ⚠ WARNING

- This work should be performed by site maintenance personnel or other qualified professionals. Work performed by non-technical personnel can cause a severe accident such as an electric shock.
- Before starting work, be sure to turn the power off. Working without turning the power off can cause an electric shock, short circuit or fire.
- Be careful not to damage the cables. Damaged cables may cause an electric shock, short circuit or fire.

### ⚠ CAUTION

- Be careful not to catch your fingers when opening or closing the control panel.
- Perform work with the control panel open. If the control panel closes under its own weight, it may catch hands or fingers, resulting in injury.

12

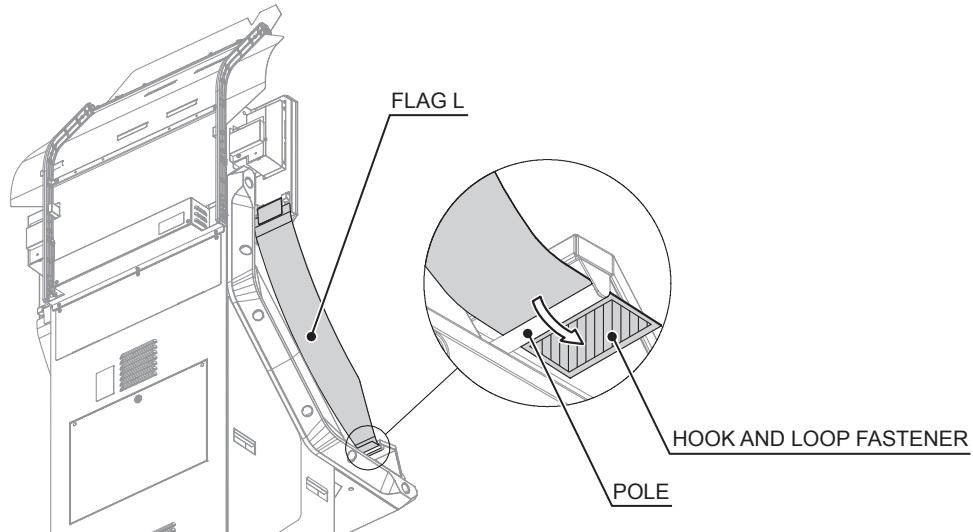


### IMPORTANT

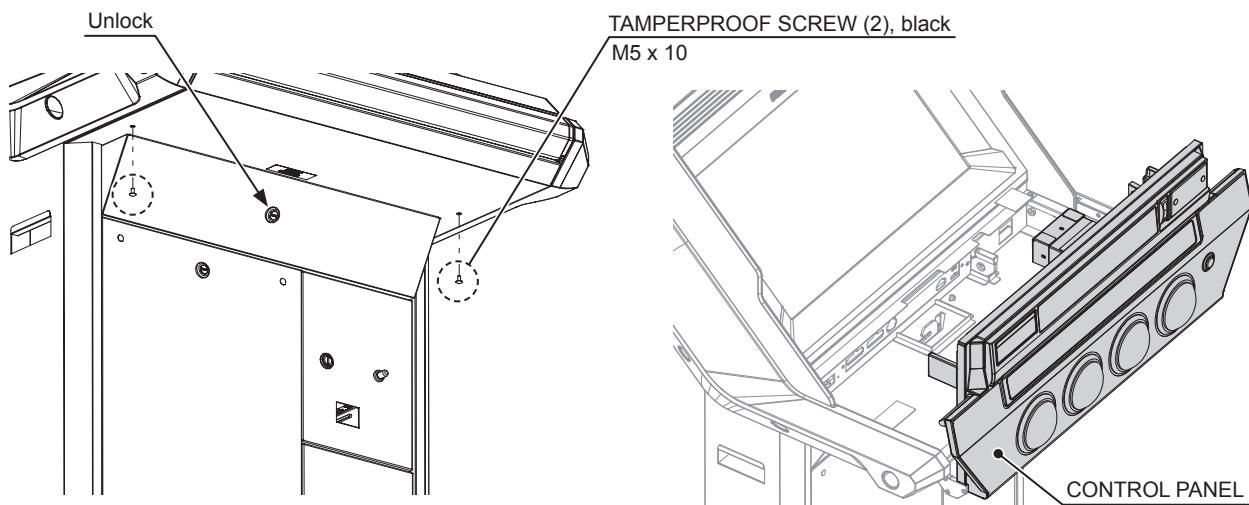
When turning the server machine's main power switch OFF during operating hours, ensure that there are no players using the connected cabinets before doing so. Once the main power switch is turned OFF, network transmissions are no longer possible. Furthermore, start the server machine before powering up each cabinet. If the server machine is started afterward, the in-store network may not operate correctly.

## 12-1 REPLACING THE START BUTTON

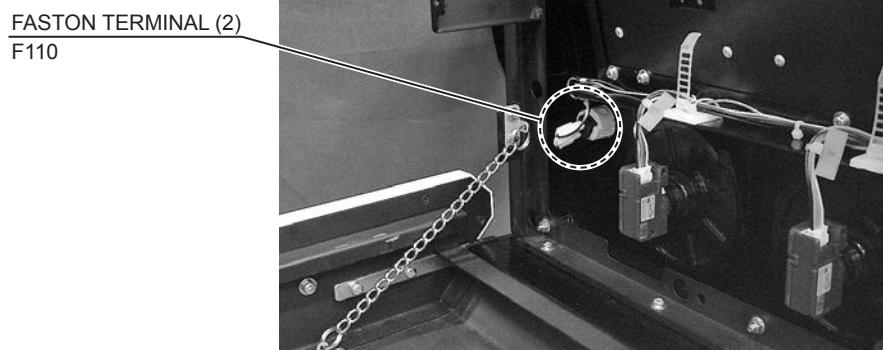
- 1** Turn OFF the main power switch on the cabinet.
- 2** Remove the hook and loop fastener from the base of flag L and remove the flag from the pole on the control panel. Take off the flag R from the other side in the same manner.



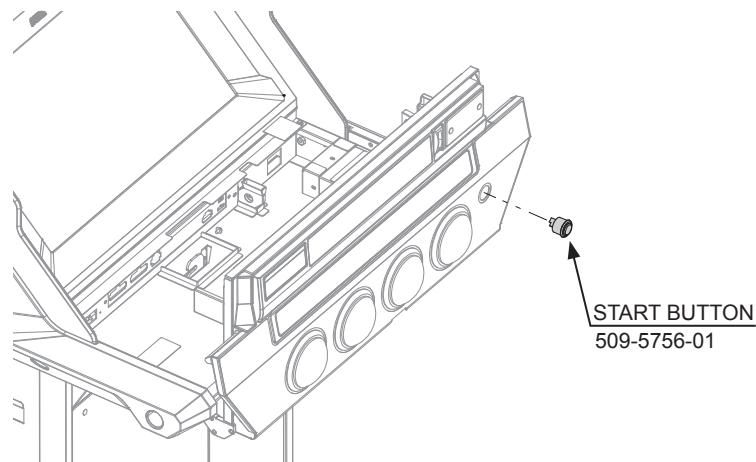
- 3** Remove 2 tamperproof screws. Unlock the control panel with the master key and then open it.



- 4** Disconnect the 2 faston terminals of the START button.



- 5** Hold down the tabs on each side, and take off the START button.



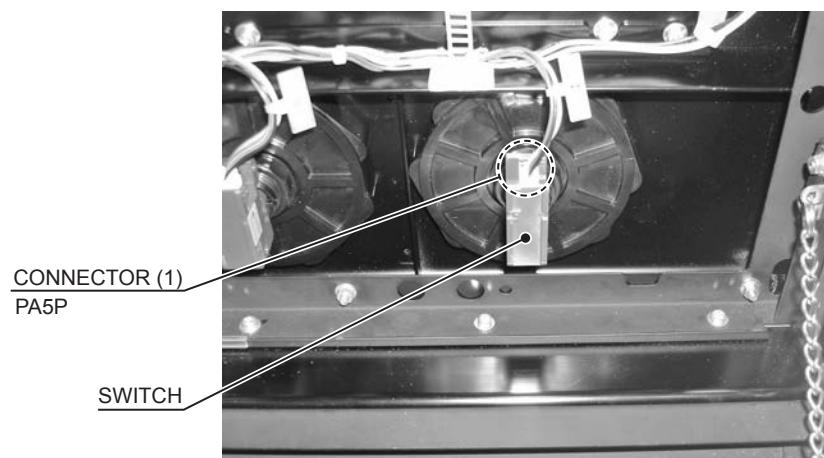
- 6** Refer to Steps 2 to 5 and work in reverse order to attach the replacement START button and reassemble the cabinet.

## 12-2 REPLACING THE △ , □ , X AND ○ BUTTONS

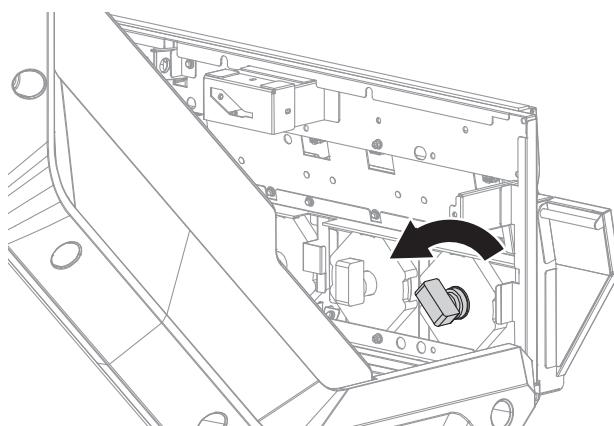
This manual explains how to replace the  $\triangle$  button.

1 Refer to Steps 1 to 3 in "12-1" and open the control panel.

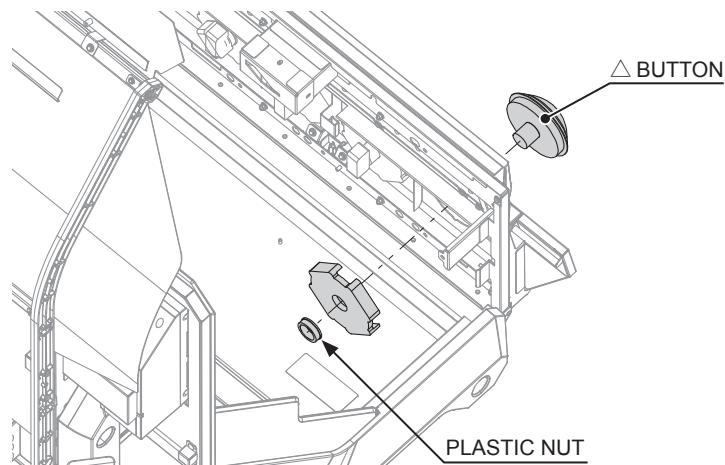
2 Disconnect the 1 connector.



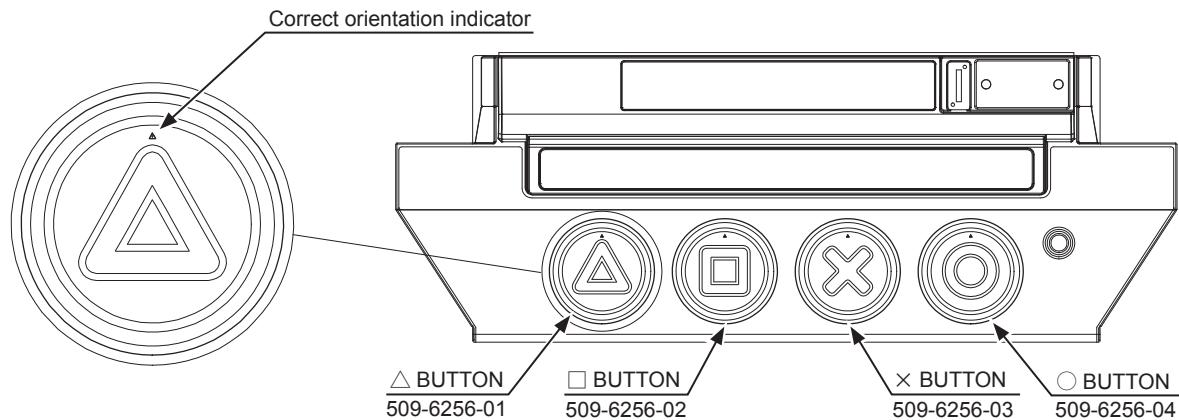
3 Rotate the switch 45 degrees counter-clockwise to release the lock and take off the switch.



4 Remove the plastic nut and take off the  $\triangle$  button.



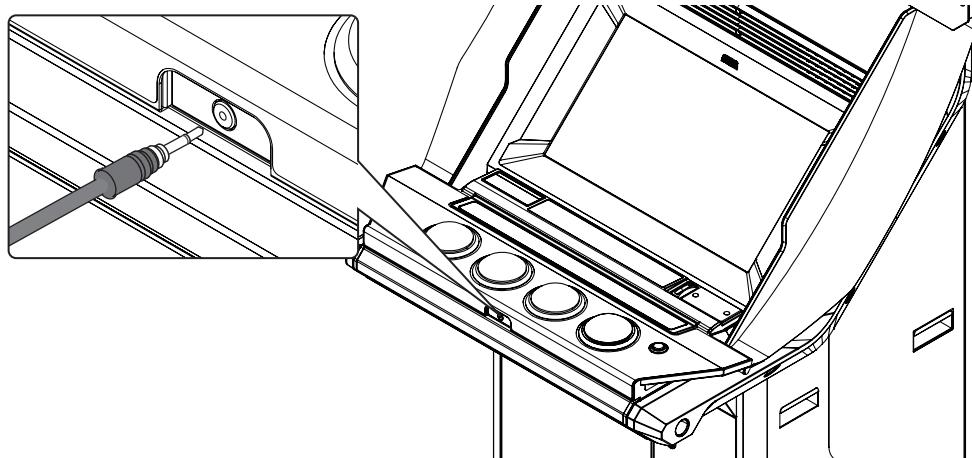
- 
- 5** Refer to Steps 2 to 4 and work in reverse order to attach the replacement  $\triangle$  button and reassemble the cabinet. When doing this, be aware of the correct button orientation and positioning.



- 
- 6** Refer to Steps 2 and 3 in "12-1," and work in reverse order.

## 12-3 REPLACING THE HEADPHONE SOCKET

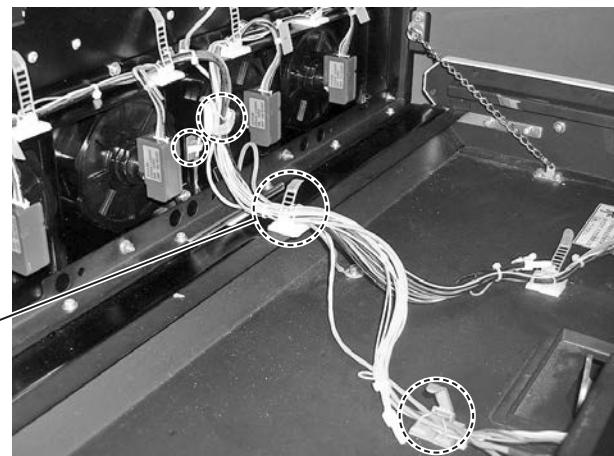
There is a headphone socket on the control panel facing toward the player.



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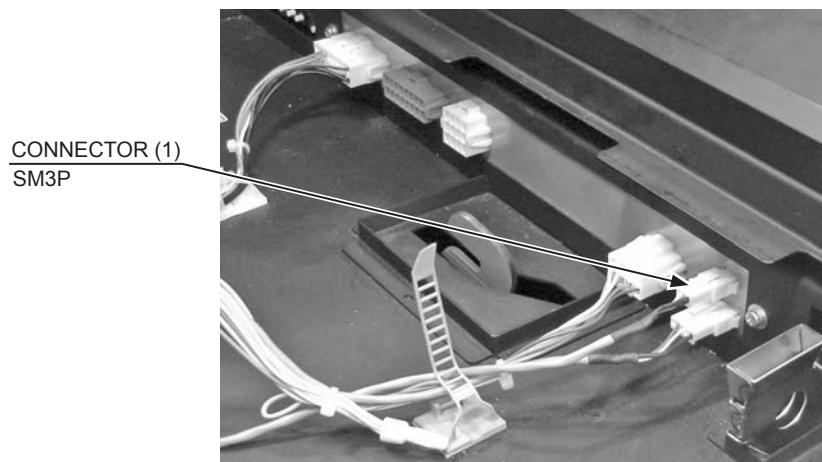
**1** Refer to Steps 1 to 3 in "12-1" and open the control panel.

**2** Undo 4 cord clamps.



---

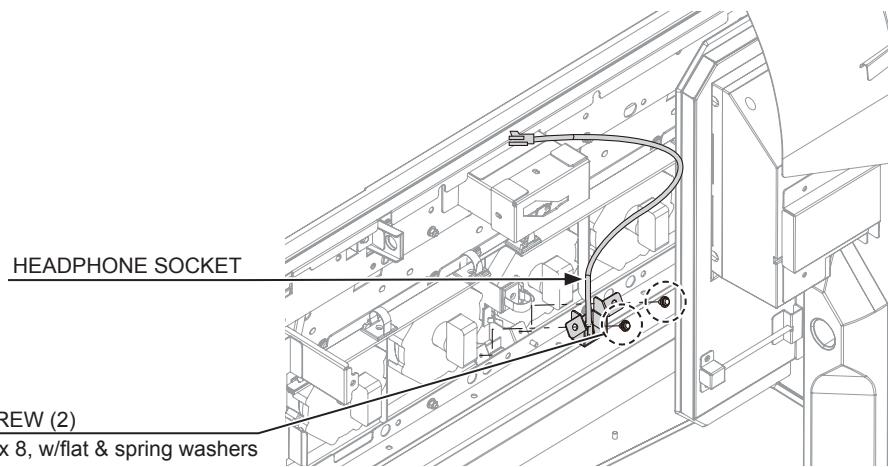
**3** Disconnect the 1 connector.



---

**4**

Remove 2 screws and take off the headphone socket. Be careful not to damage the cables.



---

**5**

Refer to Steps 2 to 4 and work in reverse order to attach the replacement headphone socket and reassemble the cabinet.

12



---

**6**

Refer to Steps 2 and 3 in "12-1," and work in reverse order.

## 13 LCD

### 13-1 CAUTIONS REGARDING SAFE HANDLING OF LCD

#### ⚠ WARNING

- Continuing to use the product under the following circumstances may cause a fire or an electric shock. Be sure to pull out the plug from the power supply and contact the office listed in this manual or the point-of-purchase for this product.
  - Smoke or an odd smell being noticed.
  - Nothing displays on the screen.
  - Water or foreign objects get inside the monitor.
  - The monitor is dropped or the cabinet is damaged.
- Do not attempt to repair, remodel, or disassemble the monitor. The monitor contains high-voltage parts and attempting the above actions may cause a fire or electric shock. Contact the office listed in this manual or the point-of-purchase for this product to request inspection, adjustment, or repair.
- Do not allow foreign objects to get inside the monitor. If metal or paper objects enter the monitor through the air vents, they may cause an electric shock, short circuit or fire.

13

#### ⚠ CAUTION

- Do not tap or strike the surface of the LCD, as doing so may break the glass and cause injury.
- If the glass breaks and the liquid crystal leaks out, do not touch the liquid. The liquid can cause damage if it comes into contact with eyes or skin. Any leaked liquid should be dealt with as follows.
  - Should the liquid crystal come into contact with eyes or skin, wash the affected area thoroughly with clean water and immediately consult a physician.
  - If the liquid crystal comes into contact with clothing, immediately wash it off with clean water.
  - If it comes into contact with any equipment other than this product, wipe it off without touching it directly.
- Make sure to perform appropriate adjustments. Do not operate the product when the screen is flickering, distorted, or experiencing other abnormalities. Images from an improperly adjusted screen could cause players and other customers to experience dizziness, headaches, and other ailments.

## 13-2 CLEANING THE SCREEN SURFACE



### IMPORTANT

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

Clean the screen surface once per week.

### 13-3 ADJUSTING THE LCD

#### **⚠ WARNING**

- This work should be performed by site maintenance personnel or other qualified professionals. Work performed by non-technical personnel can cause a severe accident such as an electric shock.
- Do not touch undesignated places. Touching places not designated can cause an electric shock, short circuit or fire.

#### **⚠ CAUTION**

When opening/closing or attaching/removing doors or other parts, be careful that your hands or fingers do not get caught in anything.

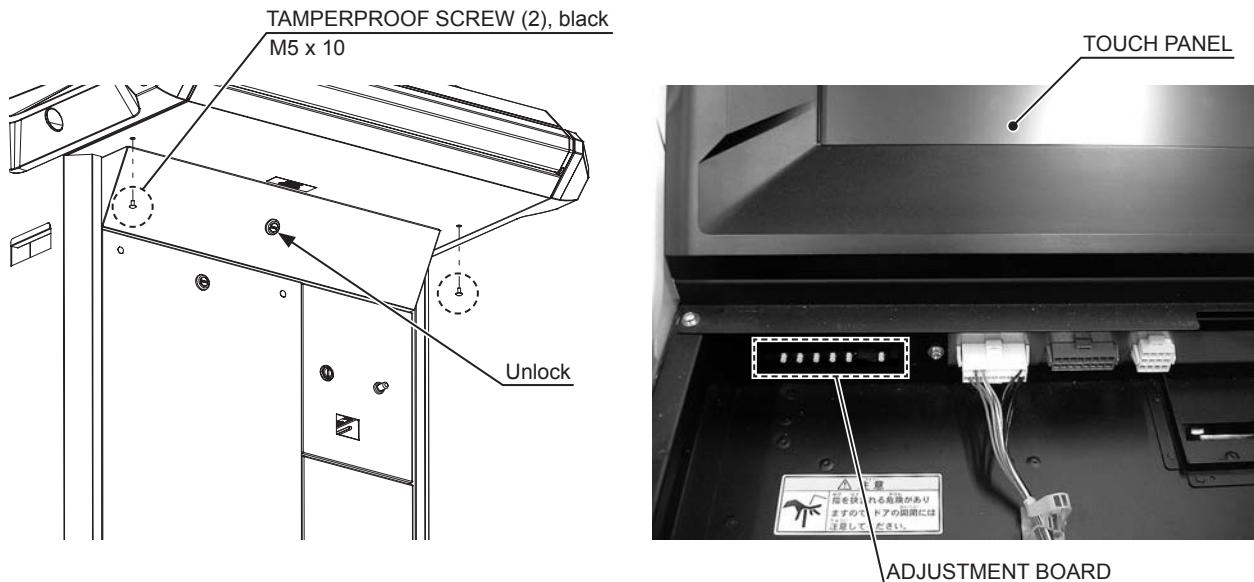


#### **IMPORTANT**

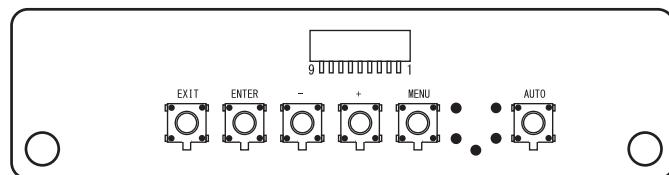
All adjustment values are set accurately at the time of shipping from the factory. Do not readjust these values needlessly or apply adjustments not specified in this manual. The display may not appear properly if the values are incorrect.

Remove 2 tamperproof screws. Unlock the control panel with the master key and then open it. The adjustment board is located inside the control panel.

*NOTE: If flags are attached to the control panel, remove the hook and loop fasteners from the bases of flags L and R, and take them off from the poles on the control panel.*



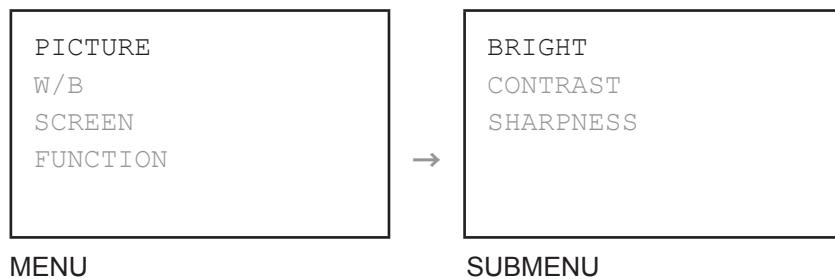
The following explains the basic input method for making the various adjustments.



ADJUSTMENT BOARD

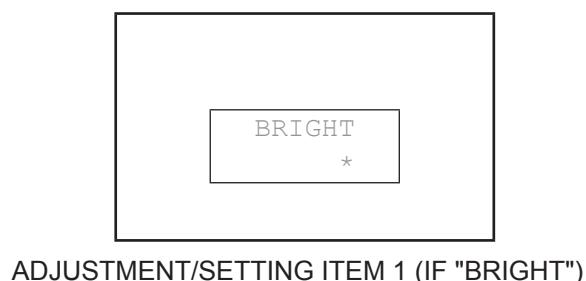
<b>AUTO</b>	Auto setup (adjust automatically)
<b>MENU</b>	Turn MENU display ON / Change pages
+	Change selected MENU item / Increase adjustment value or setting value
-	Change selected MENU item / Decrease adjustment value or setting value
<b>ENTER</b>	Confirm selected MENU item / Save adjusted value or setting value
<b>EXIT</b>	Exit MENU / Cancel adjusted value or setting value

- 1** To perform an adjustment/setting, press the MENU key to display the MENU. Use the +/– keys to select the desired SUB MENU and then press the ENTER key to display that SUB MENU.



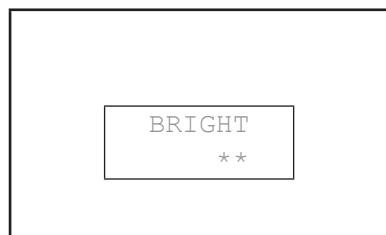
13

- 2** Use the +/– keys to select an item to adjust/set and then press the ENTER key to display that item.



ADJUSTMENT/SETTING ITEM 1 (IF "BRIGHT")

- 3** Press the +/– keys to adjust/set the value.

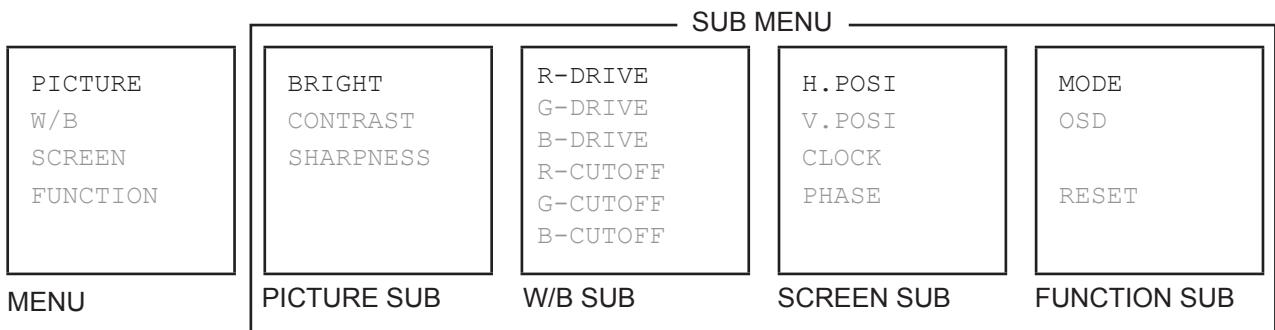


ADJUSTMENT/SETTING ITEM 2 (IF "BRIGHT")

- 4** When you have finished making adjustments/configuring settings, press the ENTER key to save the adjustments/settings and exit. To revert the adjusted/set data to its previous value, press the EXIT key instead of the ENTER key, and you will be returned to the MENU without saving changes.

### 13-3-1 MENUS

Be careful not to enter the wrong input by mistake, as doing so may alter display settings and cause the screen to stop displaying properly.



*NOTE: At the MENU display, select an item and press the ENTER key to display that SUB MENU.*

### LIST OF SETTING ITEMS

ADJUSTMENT/SETTING VALUE					
<b>MENU</b>					
PICTURE					
— BRIGHT.....	-50	~	+50		
— CONTRAST .....	0	~	100		
— SHARPNESS .....	0	~	3		
— W/B (A/B)					
— R-DRIVE.....	-50	~	+50		
— G-DRIVE.....	-50	~	+50		
— B-DRIVE.....	-50	~	+50		
— R-CUTOFF.....	-50	~	+50		
— G-CUTOFF.....	-50	~	+50		
— B-CUTOFF.....	-50	~	+50		
— SCREEN					
— *1 H. POSI .....	-50	~	+50		
— V. POSI .....	-50	~	+50		
— CLOCK .....	-50	~	+50		
— PHASE .....	-50	~	+50		
— FUNCTION					
— MODE.....	W/N1/N2/N3				
— OSD.....	ON/OFF				
— RESET.....	YES/NO				
AUTO SETUP.....	ENTER/EXIT				

13

*NOTE:*

\*1: Adjustable range for screen position varies according to MODE settings.

## MENU ITEMS

<b>PICTURE</b>	Adjust brightness of the screen.
<b>BRIGHT</b>	Adjust black level (BRIGHT.) Changing the screen's brightness alters how dark areas of the image stand out. (Setting values: -50 to +50) <i>NOTE: Improperly setting the black level will severely degrade the screen's performance. We recommend leaving this at its factory default setting.</i>
<b>CONTRAST</b>	Adjust the screen's brightness (CONTRAST.) Changing contrast alters the color thickness (brightness) of the image. (Setting values: 0 to 100)
<b>SHARPNESS</b>	Adjust the screen's sharpness (SHARPNESS.) Changing sharpness alters the strength of image contours. (Setting values: 0 to 3)
<b>W/B (A/B)</b>	Adjust the screen's white balance (W/B.) <i>NOTE: Improperly setting the white balance will severely degrade the screen's performance. We recommend leaving this at its factory default setting.</i>
<b>R-DRIVE (G-DRIVE, B-DRIVE)</b>	Adjust the white balance of bright images. (Setting values: -50 to +50)
<b>R-CUTOFF (G-CUTOFF, B-CUTOFF)</b>	Adjust the white balance of dark images. (Setting values: -50 to +50)
<b>SCREEN</b>	Adjust the position of the screen (POSI.) It may be necessary to adjust this setting after changing the game software. <i>NOTE: Adjustable range for screen position varies according to MODE settings.</i>
<b>H. POSI</b>	Adjust horizontal position of the screen. (Setting values: -50 to +50)
<b>V. POSI</b>	Adjust vertical position of the screen. (Setting values: -50 to +50)
<b>CLOCK</b>	Adjust the screen's sampling clock (CLOCK.) It may be necessary to adjust this setting after changing the game software. (Setting values: -50 to +50) <i>NOTE: Improperly setting the clock will cause screen jitter and/or a moiré pattern to appear, severely degrading the screen's performance. We recommend leaving this at its factory default setting.</i>
<b>PHASE</b>	Adjust the sampling phase of the screen (PHASE.) It may be necessary to adjust this setting after changing the game software. (Setting values: -50 to +50) <i>NOTE: Improperly setting the phase will cause screen jitter to appear, severely degrading the screen's performance. We recommend leaving this at its factory default setting.</i>
<b>FUNCTION</b>	Adjust other functions.
<b>MODE</b>	Change the aspect ratio of the screen. Widescreen (W) displays across the entire screen, while Normal (N*) displays at the aspect ratio of the input signal, the only exception being 640 x 400 resolution. <i>NOTE: Operate this product at the "N1" setting.</i>
<b>W</b>	Displays across to the entire screen.
	Displays vertically across the entire screen and displays at the aspect ratio of the input signal. Horizontal on-screen display is positioned in the center.
	Displays horizontally across the entire screen and displays at the aspect ratio of the input signal. Vertical on-screen display is positioned in the center.
	Displays in dot-by-dot. On-screen display is positioned in the center. (Except these resolutions: 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024.)

<b>OSD</b>	Turn the on-screen display (OSD) ON/OFF. The OSD appears regardless of setting if there is no input signal or the input is out of range. (Setting values: ON/OFF)	
	<b>ON</b>	An OSD corresponding to the video input type (analog/digital) is always displayed.
	<b>OFF</b>	Only shows the OSD when video input changes.
<b>RESET</b>	Return the adjustment/setting values of BRIGHT, CONTRAST, SHARPNESS, W/B, POSI, CLOCK, PHASE, MODE, and OSD to their factory default values. (Setting values: YES/NO)	
<b>AUTO SETUP</b>	When performing auto setup, signal timing is determined automatically, and the following items are adjusted to their optimum values, which are then saved. - Sampling frequency/phase - Horizontal/vertical screen position (Setting values: ENTER/EXIT)	

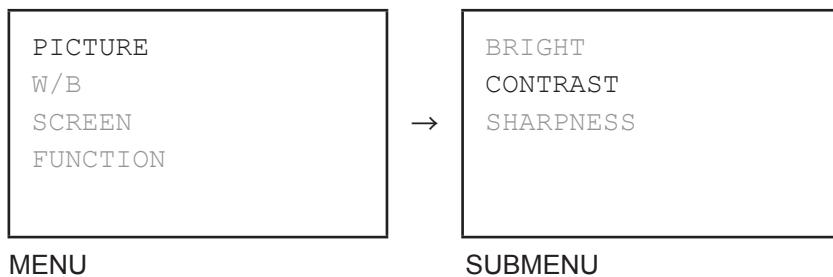
### **13-3-1-A EXAMPLE INPUT SEQUENCES**

The following demonstrates how to adjust CONTRAST and how to use AUTO SETUP. Configure other item settings using the input methods shown here as reference.

#### **CONTRAST**

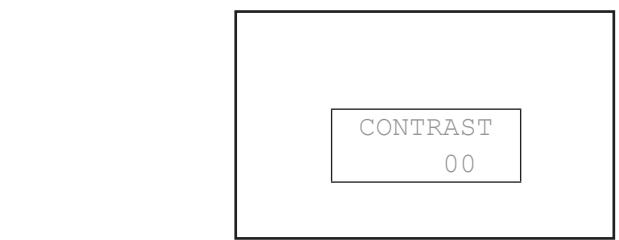
**1**

Press the MENU key to display the MENU. Press the +/– keys to select PICTURE and then press the ENTER key to display the SUB MENU.



**2**

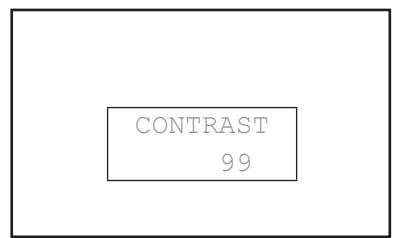
Press the +/– keys to select CONTRAST and then press the ENTER key to display the adjustment/setting item 1.



ADJUSTMENT/SETTING ITEM 1

**3**

Press the +/– keys to change adjustment data value and then set the screen's contrast according to your preference.



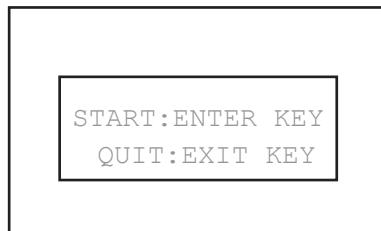
ADJUSTMENT/SETTING ITEM 1

**4**

Press the ENTER key to save adjustment data and return to the MENU. If you wish to exit without saving, press the EXIT key to return to the MENU.

**AUTO SETUP**

- 
- 1** Press the AUTO key to display the AUTO SETUP.



AUTO SETUP

- 
- 2** Press the ENTER key and perform AUTO SETUP. If you do not wish to perform AUTO SETUP, press the EXIT key.



## 13-4 REPLACING THE LCD AND ADJUSTMENT BOARD

### ⚠ WARNING

- This work should be performed by site maintenance personnel or other qualified professionals. Work performed by non-technical personnel can cause a severe accident such as an electric shock.
- Before starting work, be sure to turn the power off. Working without turning the power off can cause an electric shock, short circuit or fire.
- Be careful not to damage the cables. Damaged cables may cause an electric shock, short circuit or fire.
- Do not touch undesignated places. Touching places not designated can cause an electric shock, short circuit or fire.

### ⚠ CAUTION

- Perform work with the control panel open. If the control panel closes under its own weight, it may catch hands or fingers, resulting in injury.
- When opening/closing or attaching/removing doors or other parts, be careful that your hands or fingers do not get caught in anything.
- If all affixed fasteners (screws, nuts, and washers) are removed, parts will fall off and cause accidents. Ensure that parts are firmly supported when removing affixed fasteners.
- Be careful in handling glass/plastic parts. If such parts are exposed to excessive loads or impact, they might become damaged, resulting in fragments or cracks that could cause accidental injury.
- When fastening plastic parts, be careful not to tighten screws and nuts excessively. Failure to observe this may damage the parts and cause injury due to fragments resulting from damage.
- Be sure to perform appropriate adjustment of the LCD. For operation of this product, do not leave screen's flickering or deviation as is. Failure to observe this can have a bad influence upon the players' or the customers' physical conditions.



## IMPORTANT

- When turning the server machine's main power switch OFF during operating hours, ensure that there are no players using the connected cabinets before doing so. Once the main power switch is turned OFF, network transmissions are no longer possible.  
Furthermore, start the server machine before powering up each cabinet. If the server machine is started afterward, the in-store network may not operate correctly.
- When replacing the LCD, only replace the LCD unit, the adjustment board, and the cables between them. All other parts, cables, screws, etc. should be reused.
- After replacing the LCD, adjust the touch panel. If the panel is not appropriately responsive, it could lead to unnecessary trouble with players.

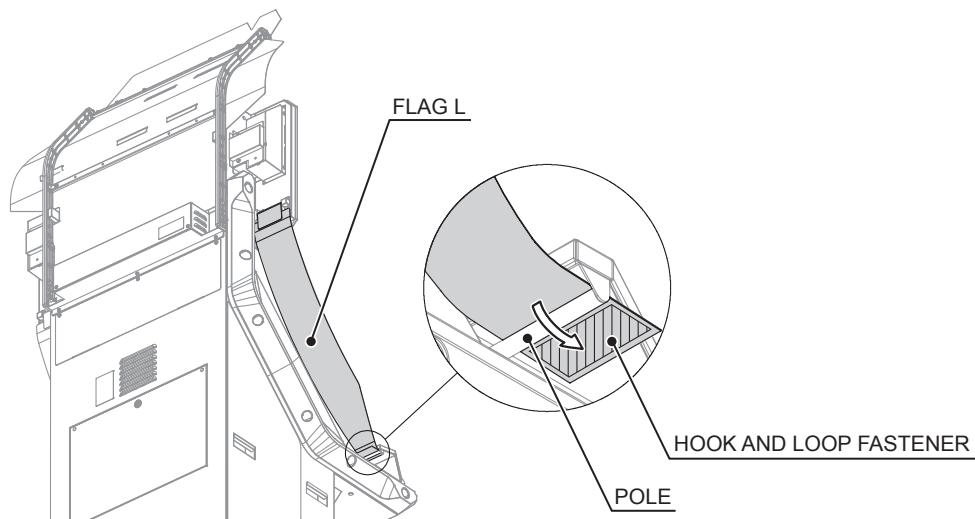
When replacing the LCD, replace it and the LCD adjustment board together.

**1**

Turn OFF the main power switch on the cabinet.

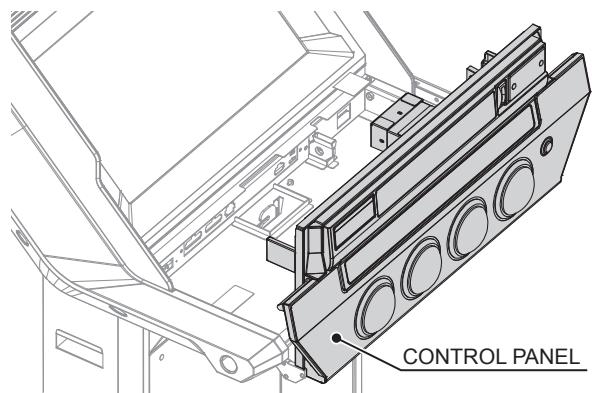
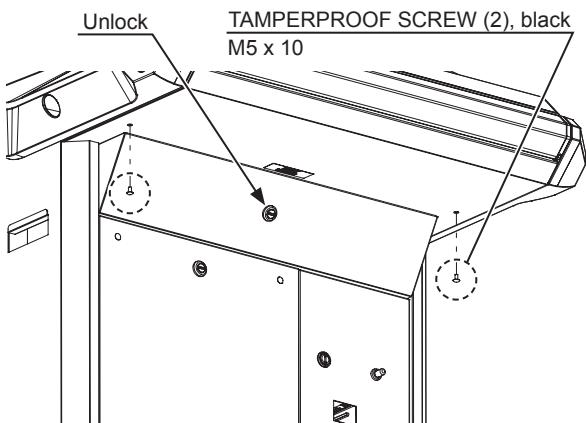
**2**

Remove the hook and loop fastener from the base of flag L and remove the flag from the pole on the control panel. Take off the flag R from the other side in the same manner.



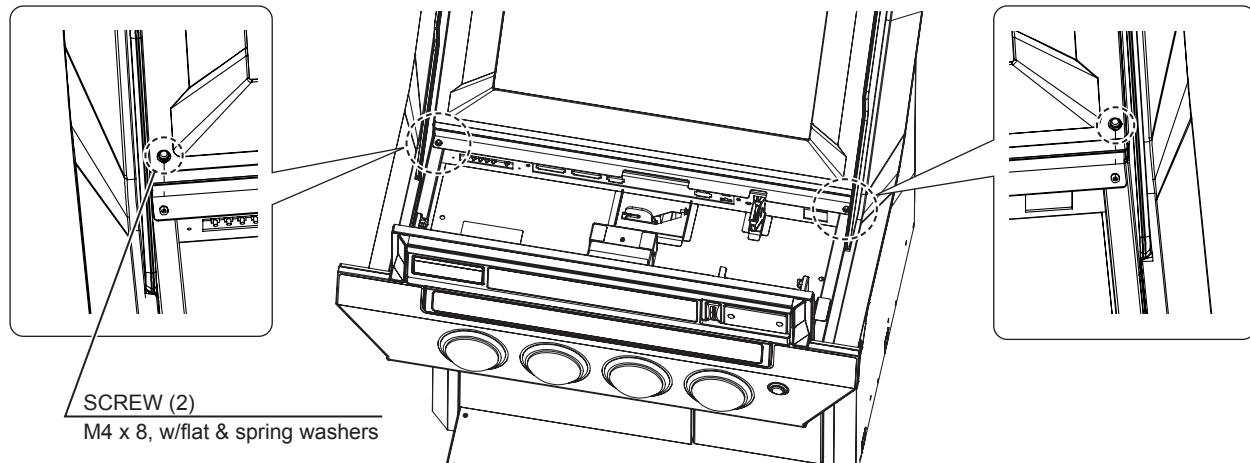
**3**

Remove 2 tamperproof screws. Unlock the control panel with the master key and then open it.



**4**

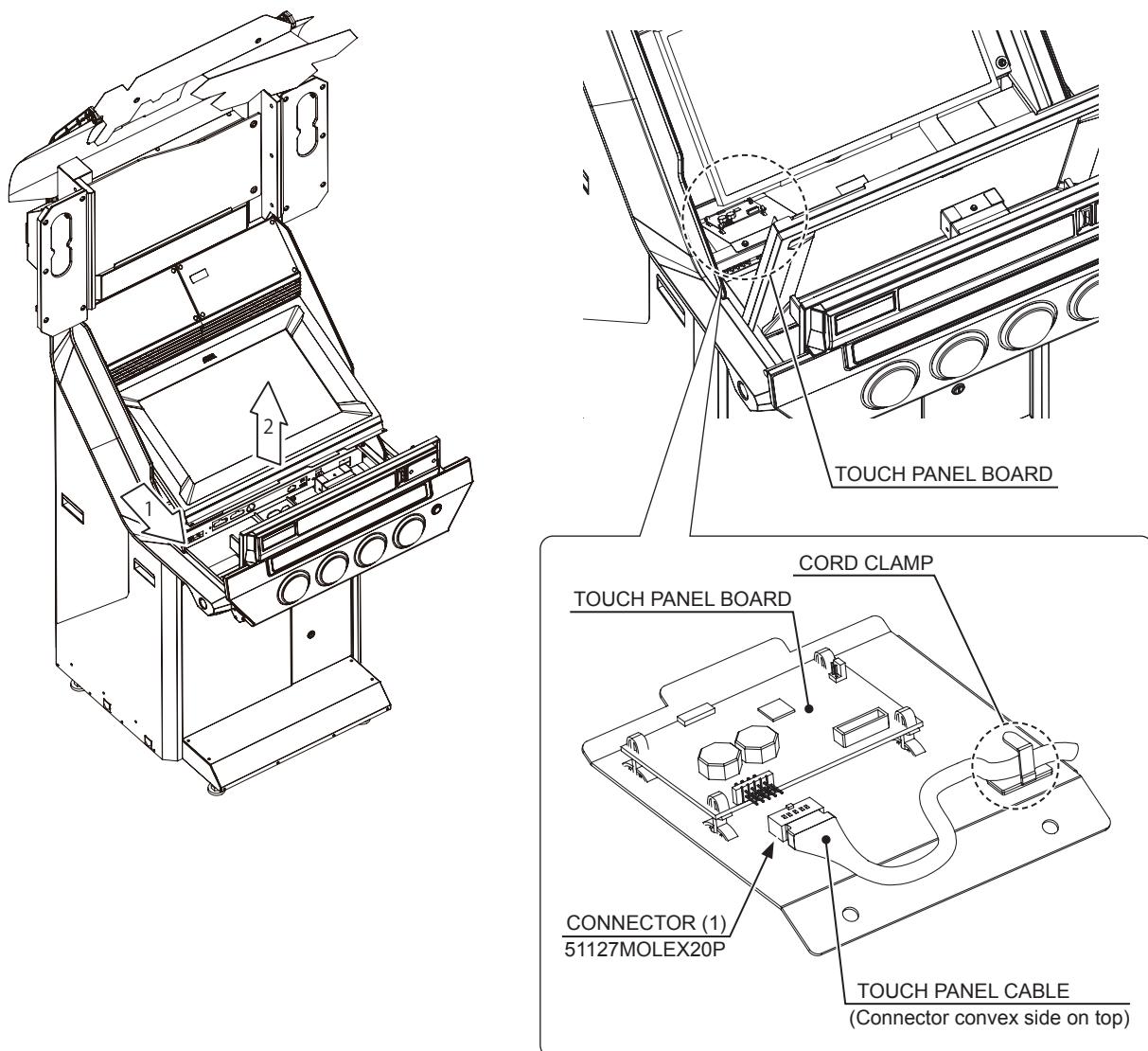
Remove 2 screws on the base of the monitor.

**5**

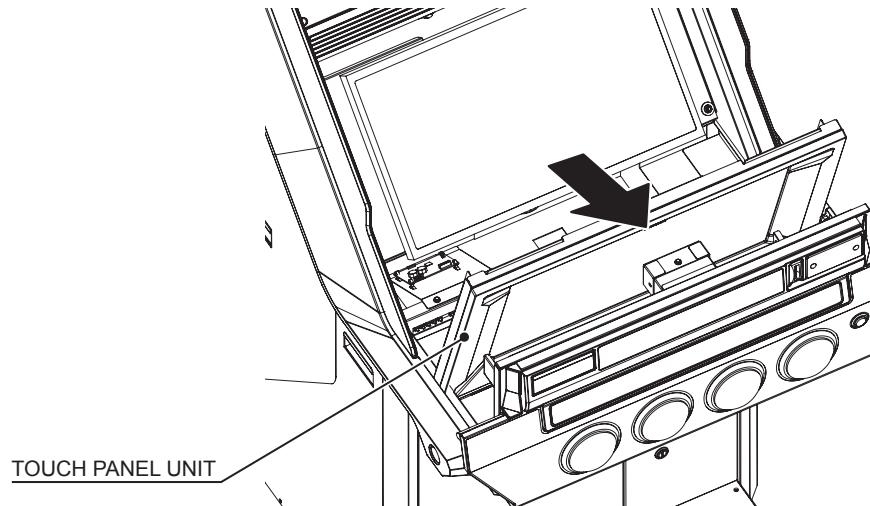
At the bottom-left of the touch panel unit is the touch panel board. Slightly lift up the bottom of the touch panel unit and then undo the cord clamp securing the touch panel cable. Disconnect the connector from the touch panel board.

The connector is fragile, and it is possible to insert it in the wrong direction. When connecting it, pay attention to the direction of the connector.

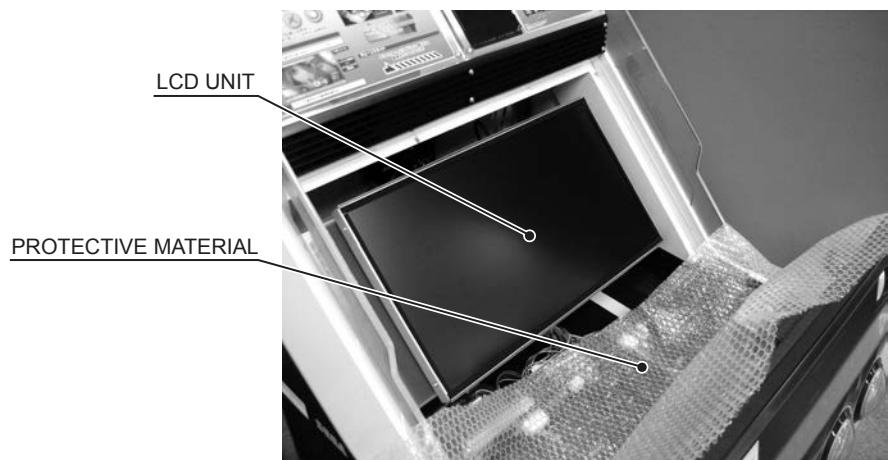
13



- 
- 6 Take off the touch panel unit. The touch panel cable is connected to the touch panel unit, so be careful it does not catch on something.

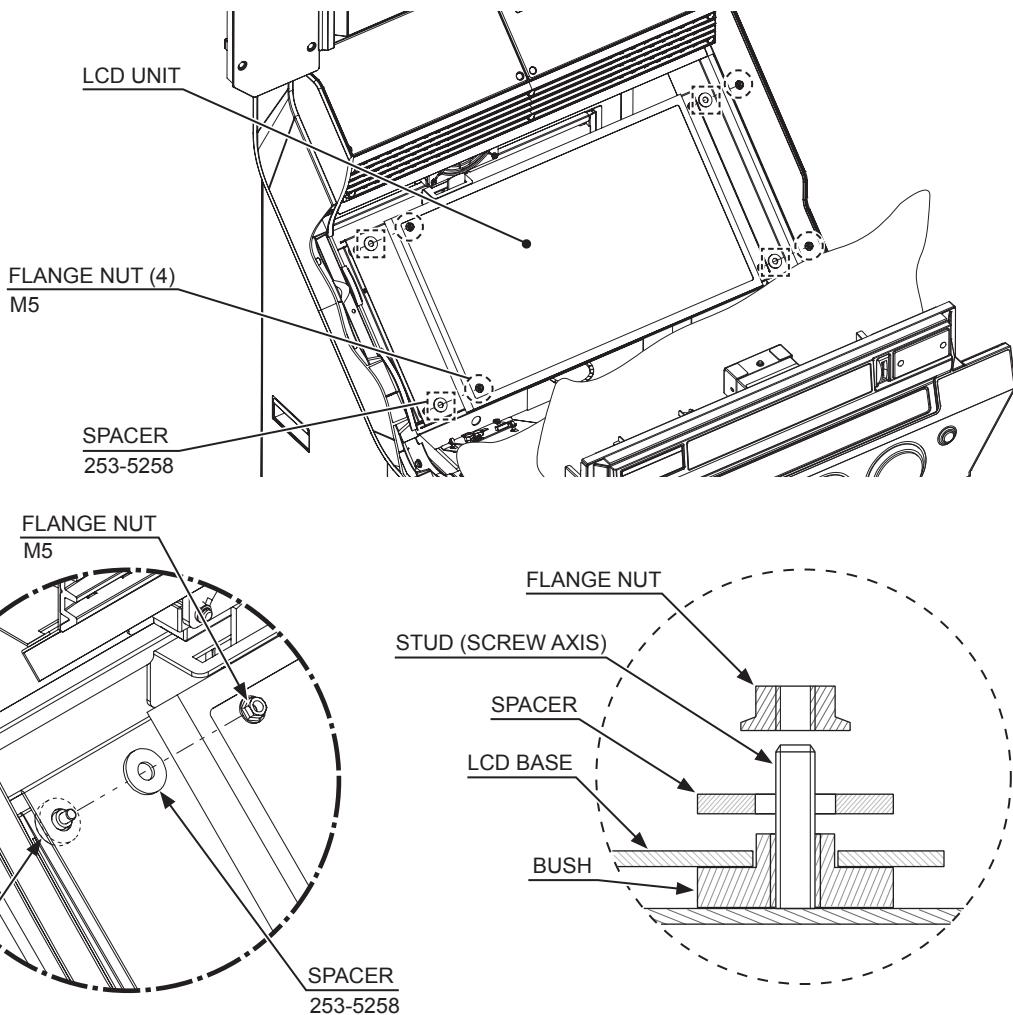


- 
- 7 Lay out the protective material over the control panel opening. The protective material is used for removing the LCD unit and temporarily laying it down.



8

Remove 4 flange nuts and take off the spacers.

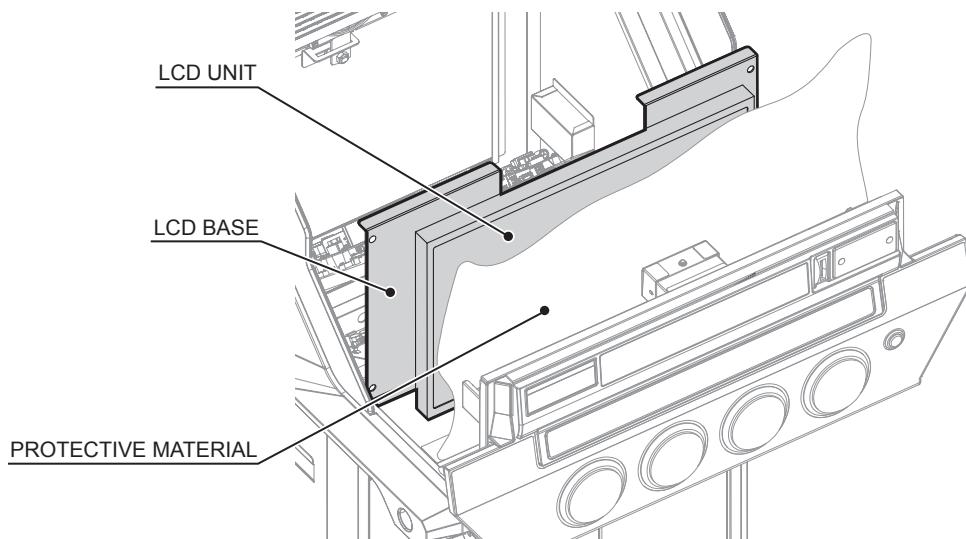


13

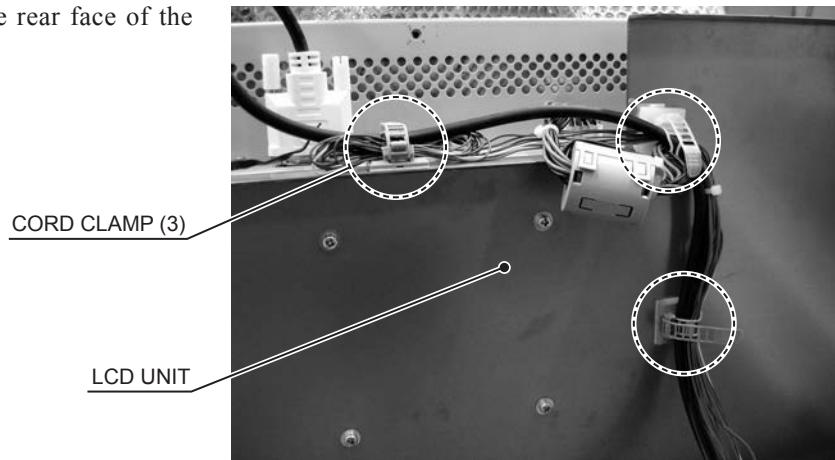
9

Take off the LCD unit. On the back of the LCD unit are wiring connections. After freeing the metal LCD base from the studs (screw axes), place it on top of the protective material. Separating it too far could damage the wiring.

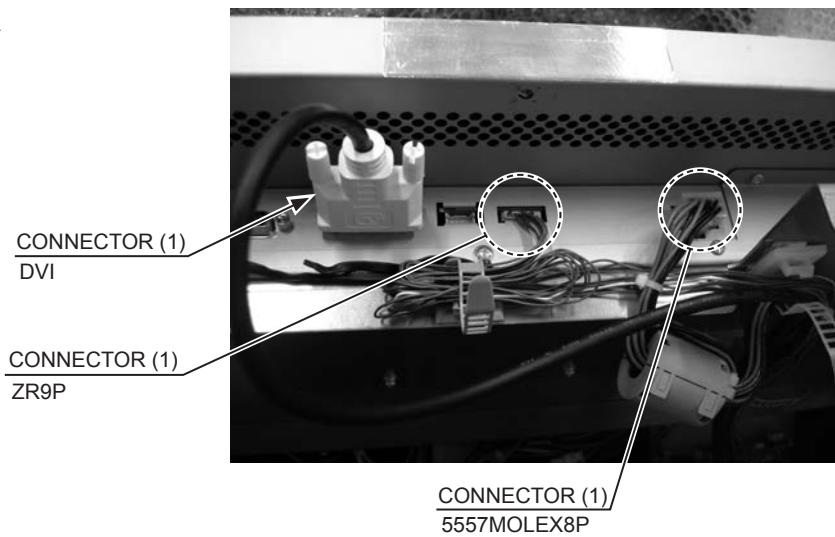
In addition, to prevent damage to the LCD, make sure the control panel does not close.



- 
- 10** Undo 3 cord clamps on the rear face of the LCD unit.

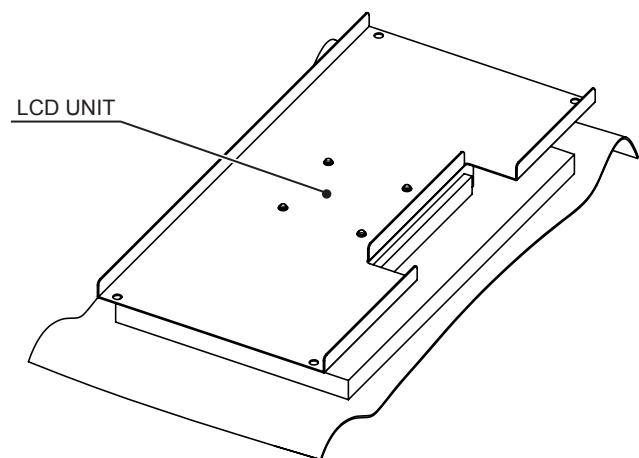


- 
- 11** Disconnect the 3 connectors.



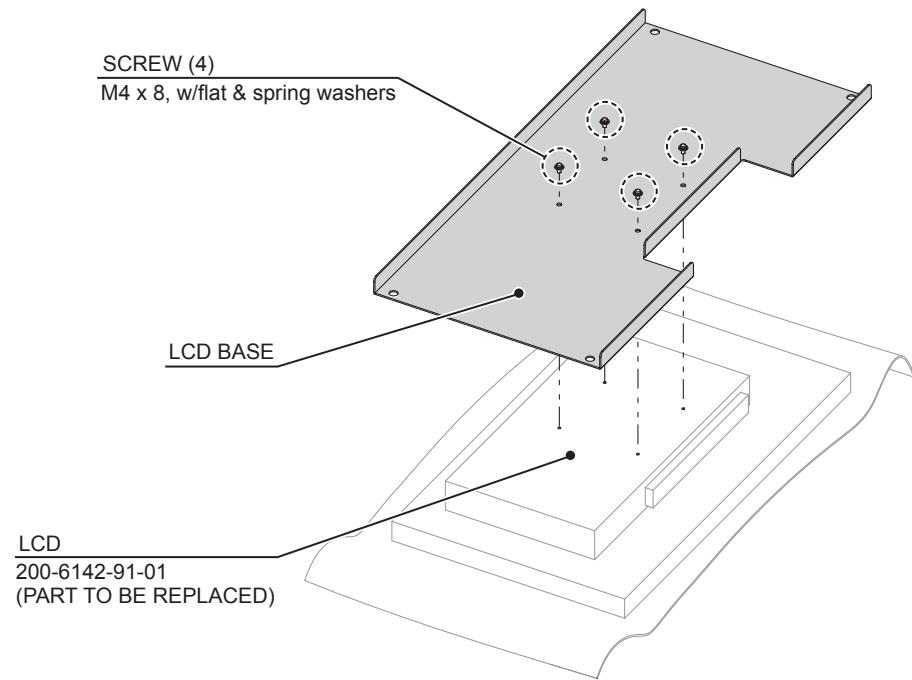
13

- 
- 12** Take off the LCD unit from the cabinet and then place it screen side facing down on a flat surface. Lay it on protective material to protect the screen.



## 13

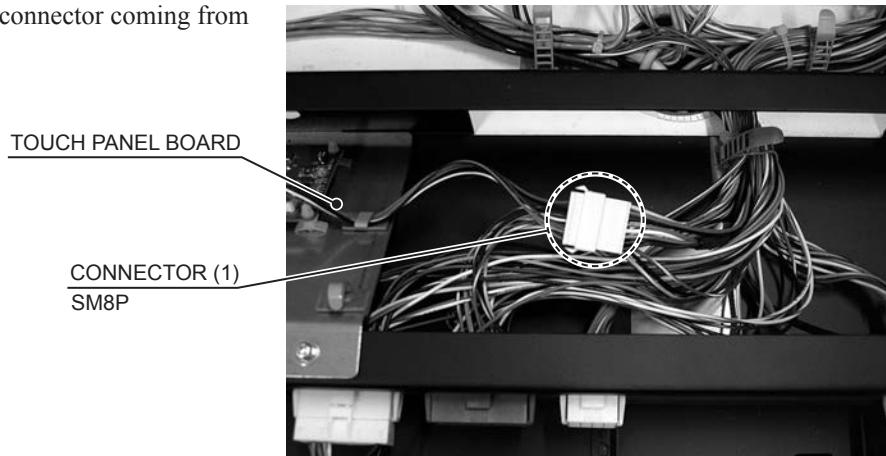
Remove 4 screws and take off the LCD base from the LCD.



## 14

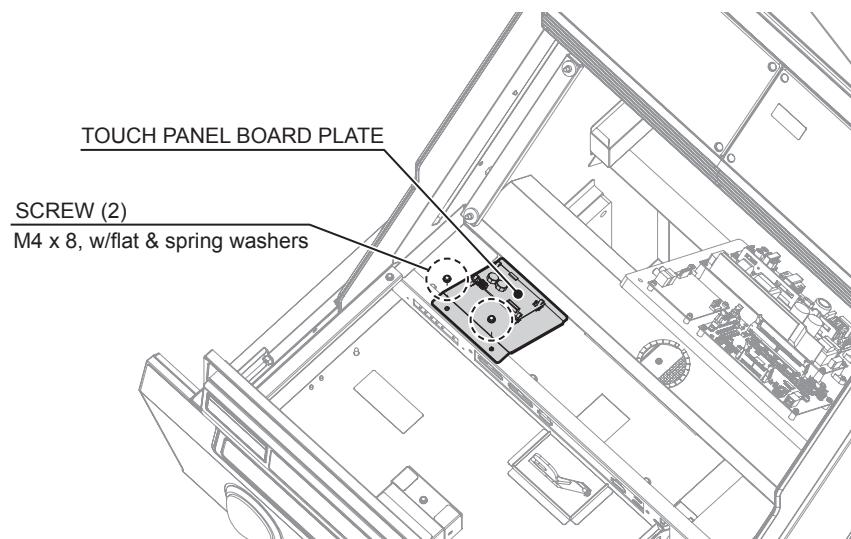
Disconnect the 1 cable connector coming from the touch panel board.

13

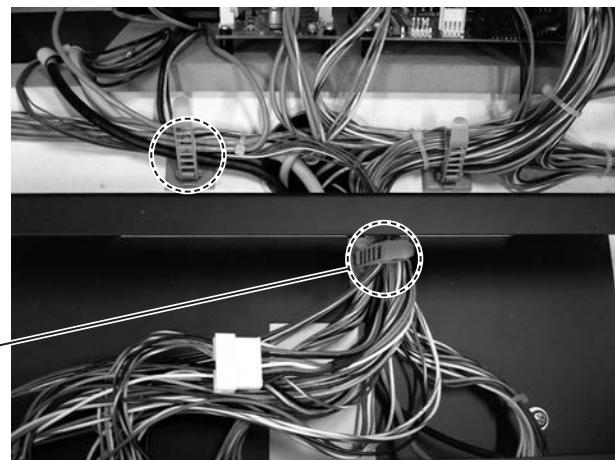


## 15

Remove 2 screws and take off the touch panel board plate.

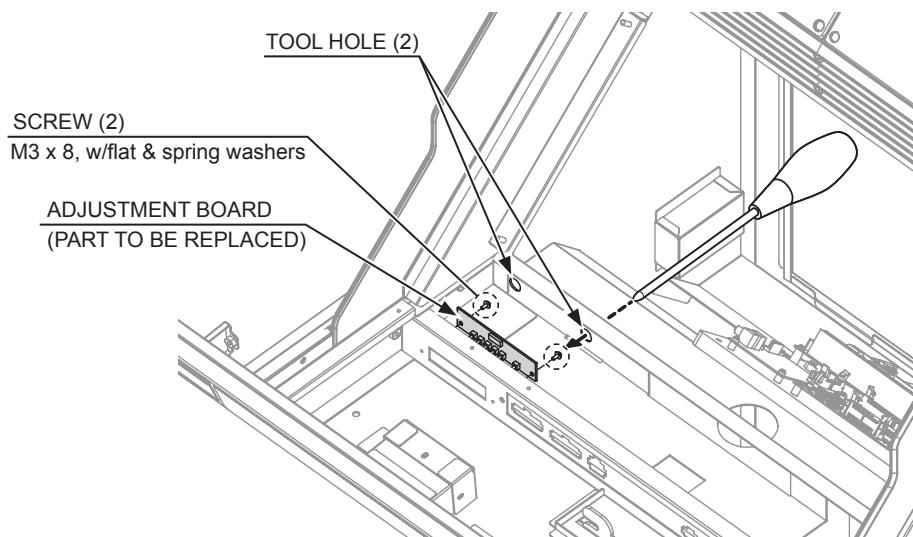


**16** Undo 2 cord clamps.



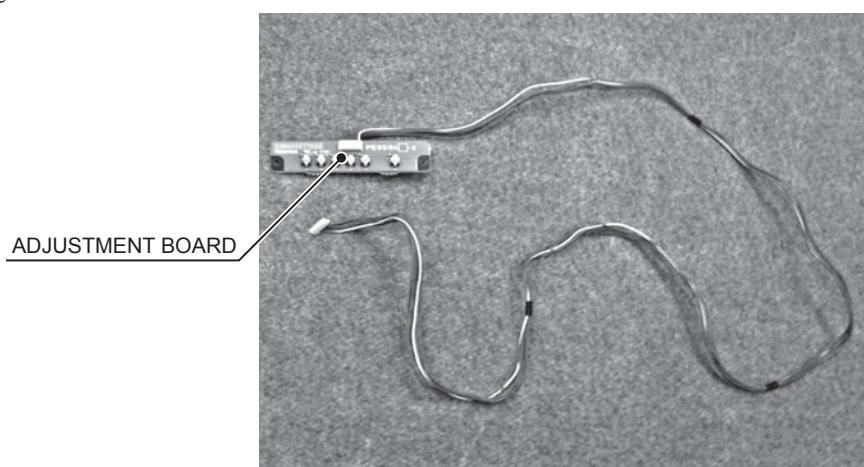
CORD CLAMP (2)

**17** Remove 2 screws by placing a Phillips screwdriver through the tool holes from the inside of the cabinet, and take off the adjustment board.



13

**18** Refer to Steps 2 to 17, work in reverse order to attach the replacement LCD and adjustment board and reassemble the cabinet. (The adjustment board is supplied with the replacement LCD.)  
Replace the adjustment board with the cables connected to it.  
When securing the LCD unit, do not tilt it to either side. This could cause the touch panel unit and LCD to be situated at different angles.



**19** Turn the power ON. At the TEST screen, check to see if adjustments are needed. If so, perform the adjustments. (See 13-3.)

**20** Adjust the touch panel and then check that it is operating correctly. (See 7-1.)

## 13-5 REPLACING THE TOUCH PANEL AND TOUCH PANEL BOARD

### ⚠ WARNING

- This work should be performed by site maintenance personnel or other qualified professionals. Work performed by non-technical personnel can cause a severe accident such as an electric shock.
- Before starting work, be sure to turn the power off. Working without turning the power off can cause an electric shock, short circuit or fire.
- Be careful not to damage the cables. Damaged cables may cause an electric shock, short circuit or fire.

### ⚠ CAUTION

- Perform work with the control panel open. If the control panel closes under its own weight, it may catch hands or fingers, resulting in injury.
- When opening/closing or attaching/removing doors or other parts, be careful that your hands or fingers do not get caught in anything.
- If all affixed fasteners (screws, nuts, and washers) are removed, parts will fall off and cause accidents. Ensure that parts are firmly supported when removing affixed fasteners.
- Be careful in handling glass/plastic parts. If such parts are exposed to excessive loads or impact, they might become damaged, resulting in fragments or cracks that could cause accidental injury.
- When fastening plastic parts, be careful not to tighten screws and nuts excessively. Failure to observe this may damage the parts and cause injury due to fragments resulting from damage.



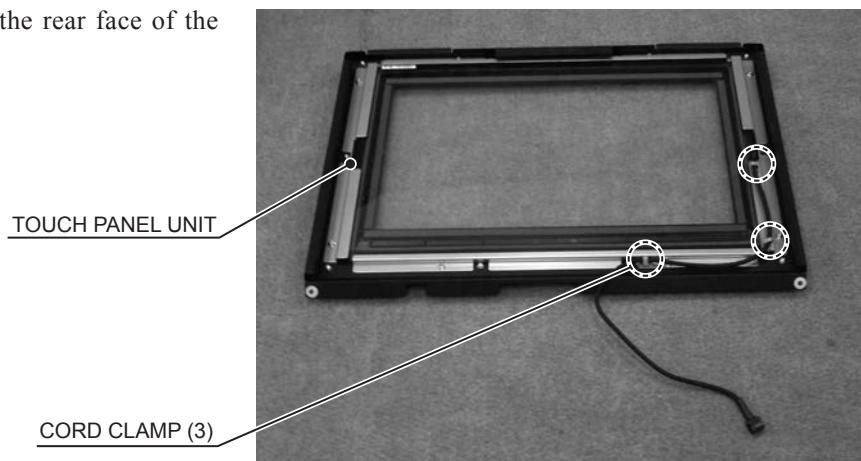
### IMPORTANT

- When turning the server machine's main power switch OFF during operating hours, ensure that there are no players using the connected cabinets before doing so. Once the main power switch is turned OFF, network transmissions are no longer possible.  
Furthermore, start the server machine before powering up each cabinet. If the server machine is started afterward, the in-store network may not operate correctly.
- After replacement, adjust the touch panel. If the panel is not appropriately responsive, it could lead to unnecessary trouble with players.

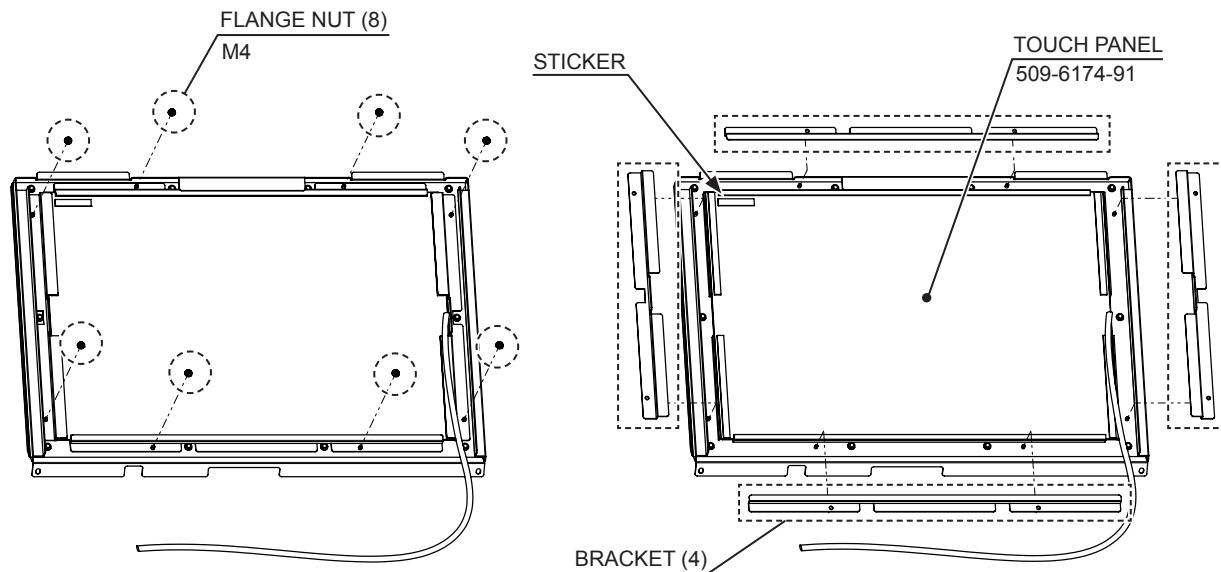
When replacing the touch panel, replace it and the touch panel board together.

**1** Refer to Steps 1 to 6 in "13-4" and work in the same order.

**2** Undo 3 cord clamps on the rear face of the touch panel unit.

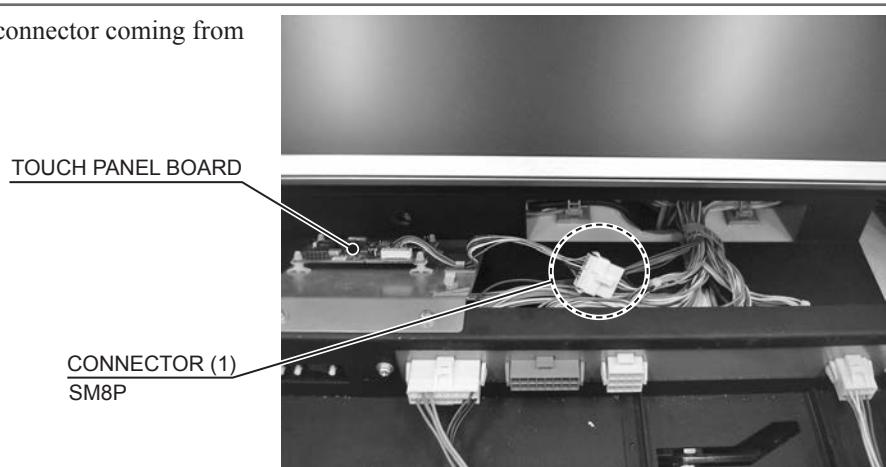


**3** Remove 8 flange nuts and take off the 4 brackets.

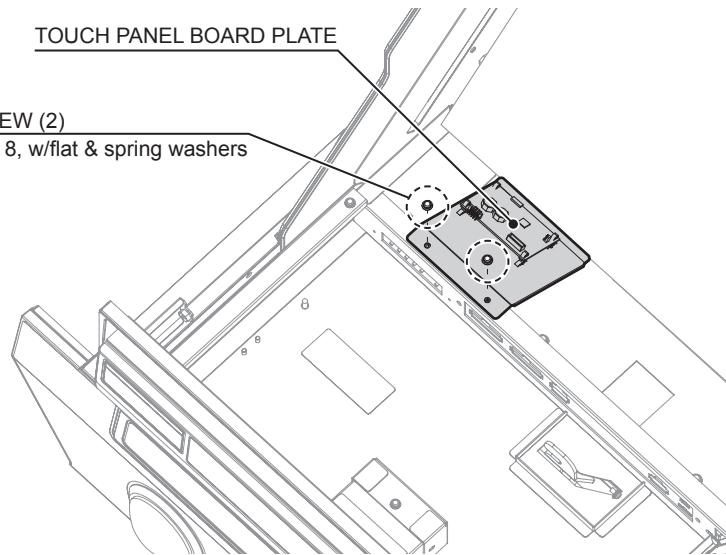


**4** Refer to Steps 2 and 3, and work in reverse order to attach the 4 brackets to the replacement touch panel and reassemble it. When attaching the touch panel, make sure the touch panel sticker is positioned on the top-left.

- 
- 5 Disconnect the 1 cable connector coming from the touch panel board.

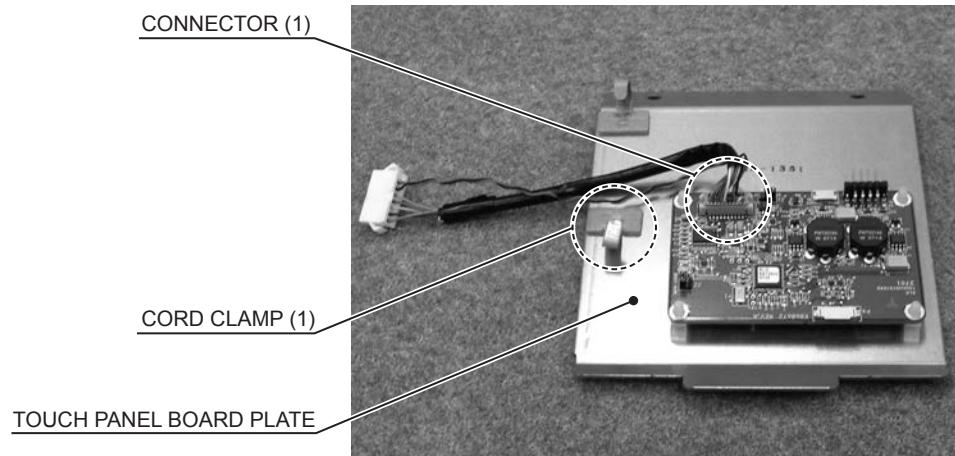


- 
- 6 Remove 2 screws and take off the touch panel board plate.



13

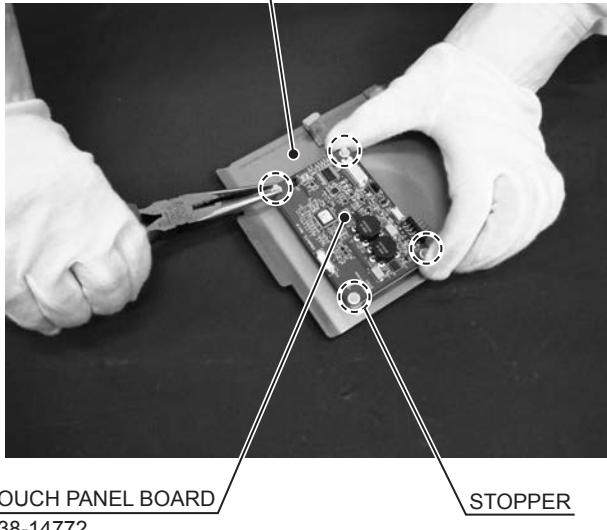
- 
- 7 Undo 1 cord clamp on the touch panel board plate, and disconnect the 1 cable connector. The cable will be used again.



**8**

Use long-nosed pliers to grasp the stoppers securing the board, and take off the touch panel board from the touch panel board plate.

TOUCH PANEL BOARD PLATE



TOUCH PANEL BOARD  
838-14772

**9**

Refer to Steps 5 to 8 and work in reverse order to attach the replacement touch panel board and reassemble the unit.

**10**

Refer to Steps 2 to 6 in "13-4," and work in reverse order to reassemble the cabinet.

**11**

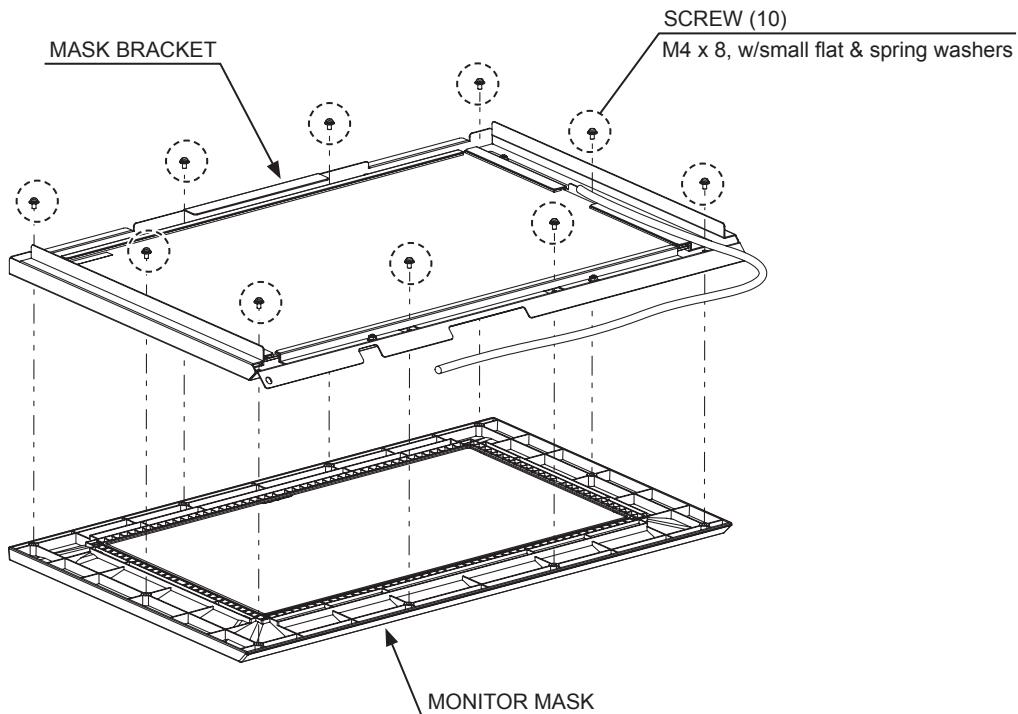
Turn the power ON, adjust the touch panel and then check that it is operating correctly. (See 7-1.)

## 13-6 CLEANING BETWEEN TOUCH PANEL AND MONITOR MASK

Taking off the touch panel unit allows you to remove foreign objects from between the touch panel and the monitor mask. If foreign objects are repeatedly caught between these two parts, this is possibly due to defect, degradation, or deliberate abuse.

**1** Refer to Steps 1 to 6 in "13-4" and work in the same order.

**2** Remove 10 screws and take off the mask bracket.

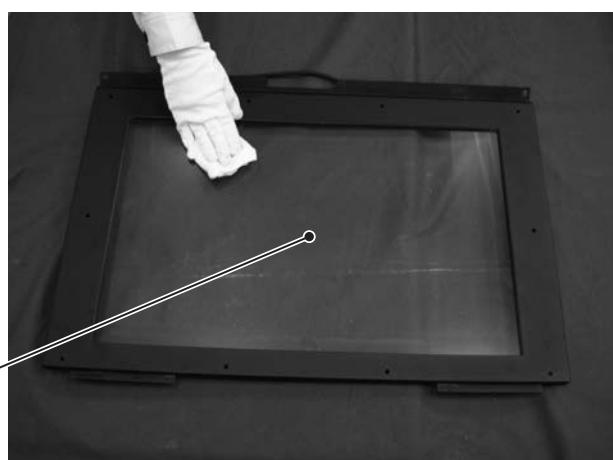


13

**3** Clean the surface of the touch panel, the side that comes into contact with the monitor mask. At the same time, clean the rear face of the monitor mask.

Use a soft, dry, flannel type cloth to wipe off dirt. To remove excessive dirt, we recommend using an alcohol (ethanol) based cleaner. (See 13-2.)

TOUCH PANEL SURFACES



**4** Refer to Steps 2 to 6 in "13-4," and work in reverse order to reassemble the cabinet.

## 14 COIN SELECTOR

### ⚠ WARNING

- This work should be performed by site maintenance personnel or other qualified professionals. Work performed by non-technical personnel can cause a severe accident such as an electric shock.
- Before starting work, be sure to turn the power off. Working without turning the power off can cause an electric shock, short circuit or fire.

### ⚠ CAUTION

- When opening/closing or attaching/removing doors or other parts, be careful that your hands or fingers do not get caught in anything.
- This work is performed underneath the control panel, which projects forwards. Take care not to hit your head.



### IMPORTANT

- When turning the server machine's main power switch OFF during operating hours, ensure that there are no players using the connected cabinets before doing so. Once the main power switch is turned OFF, network transmissions are no longer possible.  
Furthermore, start the server machine before powering up each cabinet. If the server machine is started afterward, the in-store network may not operate correctly.
- Use a soft cloth to clean the coin selector. If the coin selector is particularly dirty, wet a cloth with cold or lukewarm water, wring it out and wipe the selector clean. Never use chemical detergents or other chemicals.
- After cleaning the coin selector, insert a regular coin in the normal working status and ensure that the selector correctly functions.
- The coin selector is a precision device. Careless handling could result in damaged parts, poor connection of electronic circuits, etc.
- Never apply machine oil, grease etc. to the coin selector.
- Do not open the lid more than 90 degrees. Doing so will place undue force on the hinge which could break it.
- Never disassemble the unit in ways other than those described in this manual.

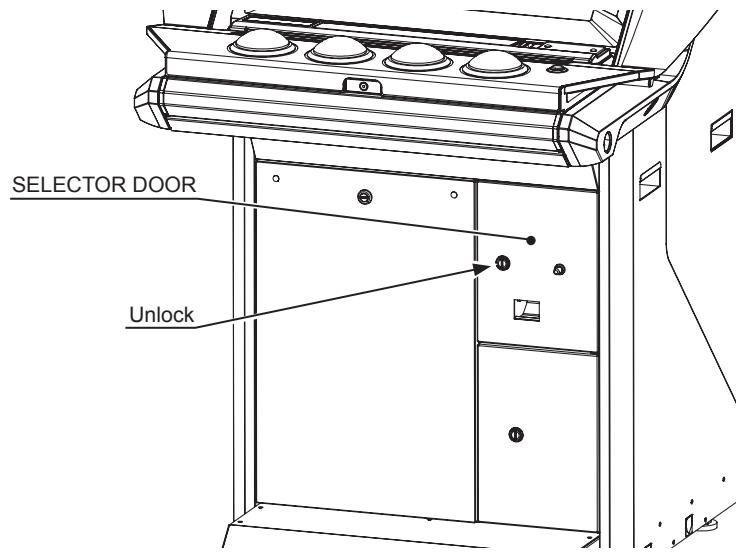
14

Clean the coin selector every 3 months. Also, in extremely rare instances coins may become jammed in the coin selector. If this happens, or if you need to clean the coin selector, take off the coin selector.

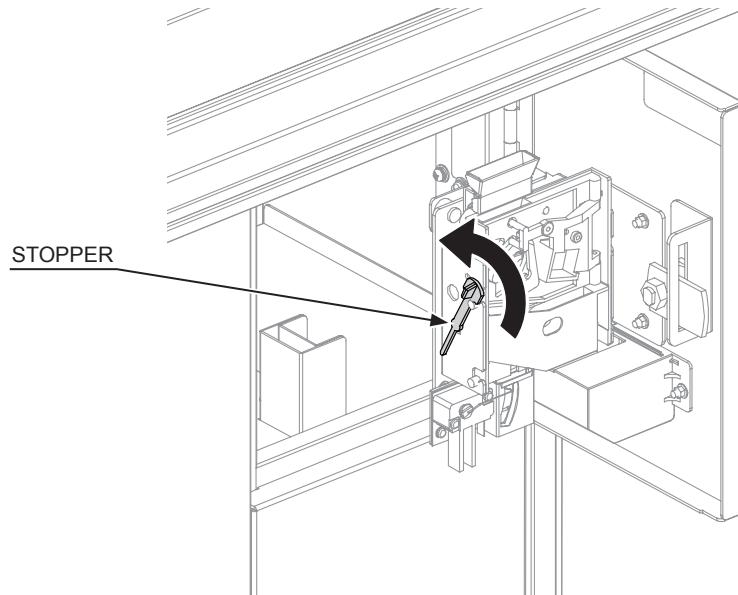
## 14-1 REMOVING THE COIN SELECTOR

1 Turn OFF the main power switch on the cabinet.

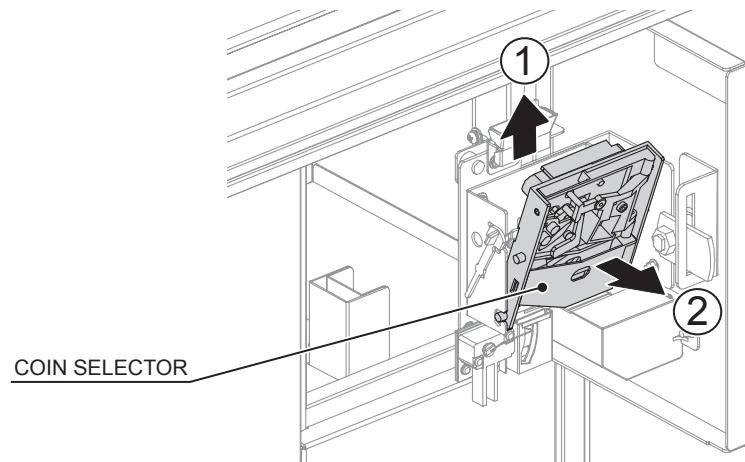
2 Unlock the selector door with the master key and then open it.



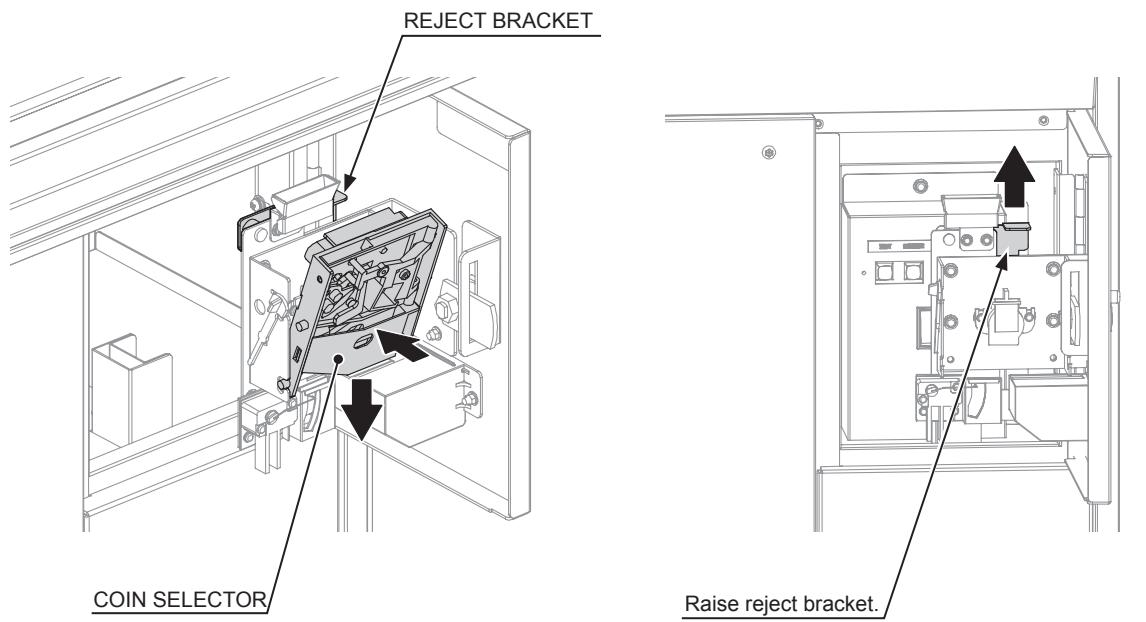
3 Disengage the stopper and then unlock the lock.



- 
- 4** After sliding the coin selector up, pull the lower part of it toward you and take off the coin selector.



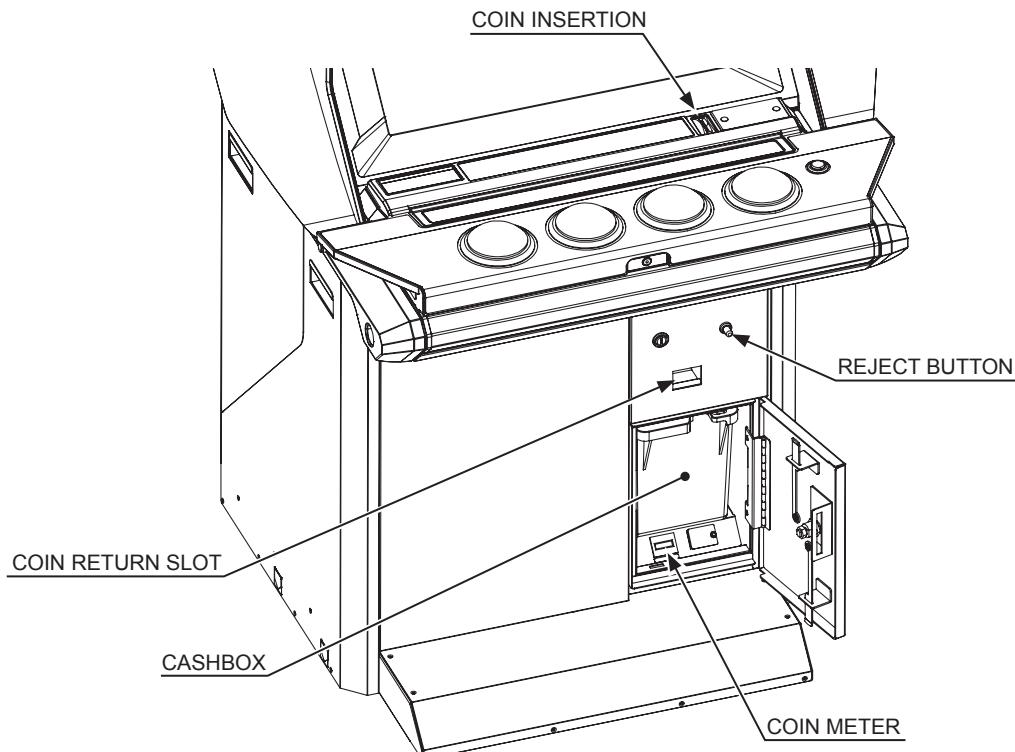
*NOTE: When attaching the coin selector, be sure to raise the reject bracket first. After attaching, press the reject button on the selector door to confirm it is working correctly.*



## 14-2 COIN INSERTION TEST

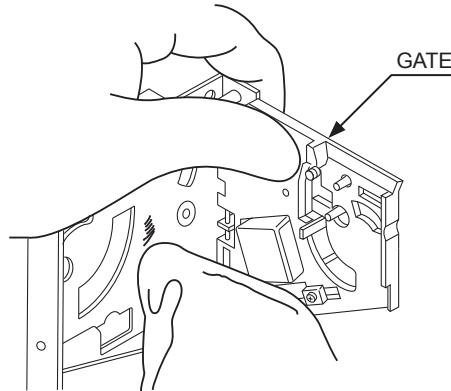
Once per month, enter TEST MODE and perform a coin switch test and a lockout solenoid test, and go through the following coin related checklist at the same time.

- Does the coin meter count properly?
- Do coins drop into the cashbox correctly?
- Are coins inserted while pressing the reject button returned to the coin return slot?
- Are extra coins and incorrect coins properly returned?

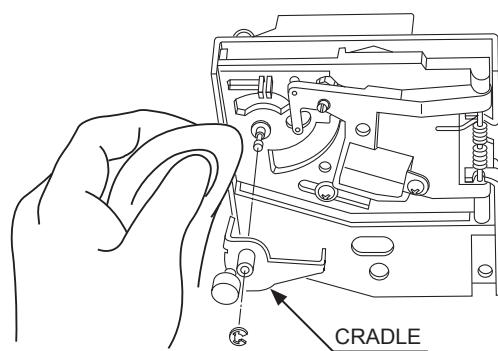


### 14-3 CLEANING THE COIN SELECTOR

- 1** Turn OFF the main power switch on the cabinet.
- 2** Refer to "14-1" and take off the coin selector.
- 3** Open gate and wipe away dirt with animal hairbrush or other soft brush.



- 4** Dip a soft cloth in water or a diluted mild cleaning agent, wring it out and wipe the parts off.
- 5** Take off the cradle. When removing the retaining ring (E-ring), be very careful not to bend its rotation axle.



- 6** Wipe any dirt off the rotation axle and bearing with a soft cloth.
- 7** Once you are done, dry the coin selector with a dry cloth, and then let it air dry.
- 8** Refer to "14-1" and work in reverse order to attach the coin selector.

#### 14-4 REMOVING THE JAMMED COIN

If a coin does not come out even when you press the reject button, open the selector door, open the coin selector gate and remove the jammed coin. (See 14-3.)

After you have removed it, insert a normal coin to check that the coin selector is working properly.

## 15 Nu (GAME BOARD)

### ⚠ WARNING

- This work should be performed by site maintenance personnel or other qualified professionals. Work performed by non-technical personnel can cause a severe accident such as an electric shock.
- Before starting work, be sure to turn the power off. Working without turning the power off can cause an electric shock, short circuit or fire.
- Be careful not to damage the cables. Damaged cables may cause an electric shock, short circuit or fire.
- Do not expose the Nu or other boards. Failure to observe this can cause an electric shock or malfunction.
- No connectors other than those connected on the Nu when first delivered can be used by this product. Do not connect any other cables to any of the unused connectors. This may lead to the generation of heat, smoke or burn outs.
- When returning the Nu after making repairs or replacements, make sure that there are no errors in the connection of connectors. Erroneous connections can lead to electrical shock, short circuits or fires.
- Be careful with the direction when connecting connectors. The connector must be connected in the proper direction. If it is connected in the wrong direction or indiscriminately at an incline so that a load is applied, the connector or its terminal pins could break, causing an electric shock, short circuit, or fire.

15

### ⚠ CAUTION

- When opening/closing or attaching/removing doors or other parts, be careful that your hands or fingers do not get caught in anything.
- This work is performed underneath the control panel, which projects forwards. Take care not to hit your head.

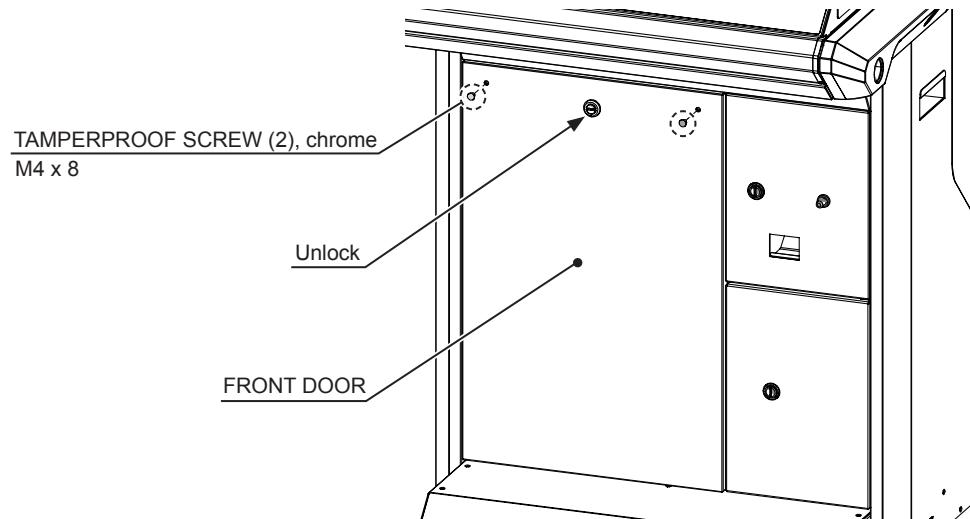
 **IMPORTANT**

- When turning the server machine's main power switch OFF during operating hours, ensure that there are no players using the connected cabinets before doing so. Once the main power switch is turned OFF, network transmissions are no longer possible.  
Furthermore, start the server machine before powering up each cabinet. If the server machine is started afterward, the in-store network may not operate correctly.
- Static electricity from your body may damage some electronics devices on the IC board. Before handling the IC board, touch a grounded metallic surface so that the static electricity can be discharged.
- In this product, setting changes are made during the TEST MODE. If you are operating 1 machine by itself, there is no need to configure the Nu's DIP switches. Leave the Nu at its factory default settings, as changing these could result in malfunction or damage to parts.
- Use with the DIP switches on the Nu at the prescribed settings. If settings do not match the product, an error message will be displayed. In some cases, the game cannot be started.

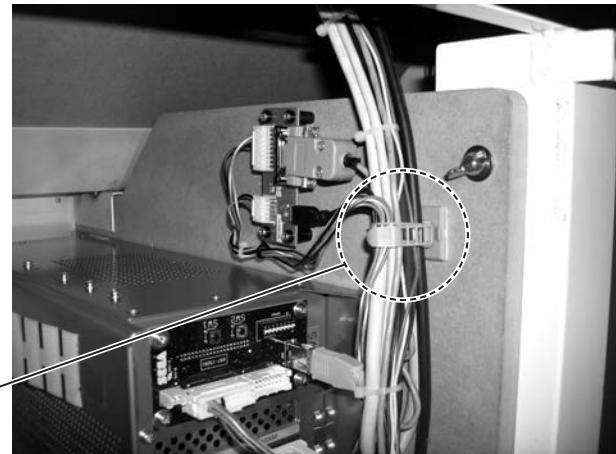
## 15-1 REMOVING THE Nu

**1** Turn OFF the main power switch on the cabinet.

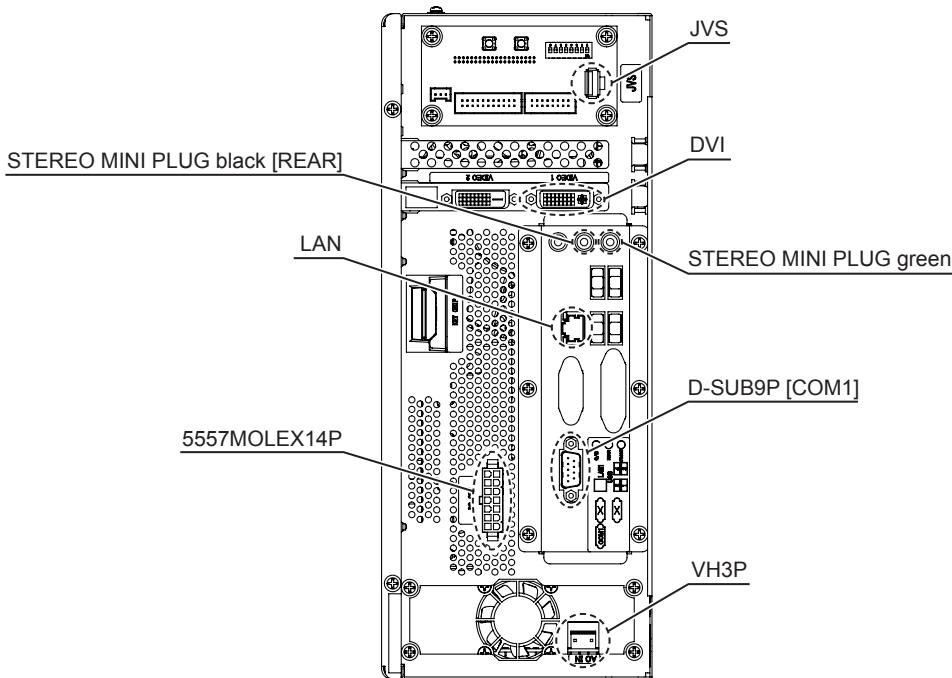
**2** Remove 2 tamperproof screws. Unlock the front door with the master key and then take it off.



**3** Undo 1 cord clamp.



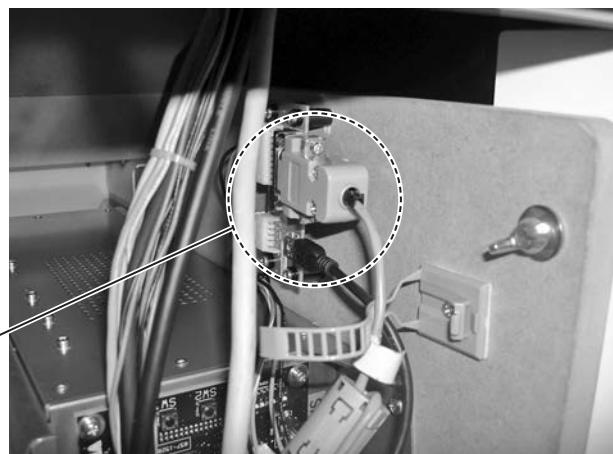
- 4** Disconnect all connectors from the Nu. Disconnect the D-SUB9P and DVI connector after loosening the fixing screw. Use a precision flat-head screwdriver on the D-SUB9P connector.



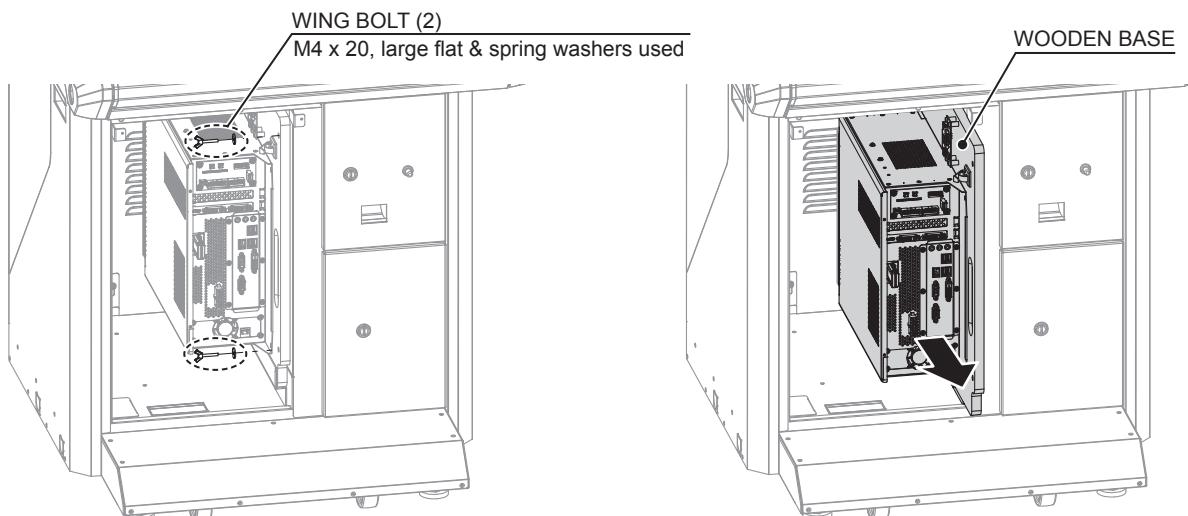
- 5** Disconnect the 2 connectors from the conversion board. Use a precision flat-head screwdriver on the D-SUB9P connector.

15

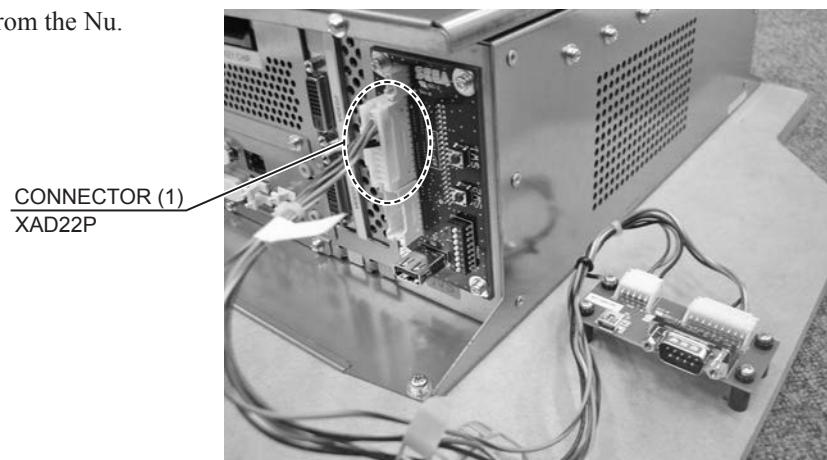
CONNECTOR (2)  
MINI USB A, D-SUB9P [COM2]



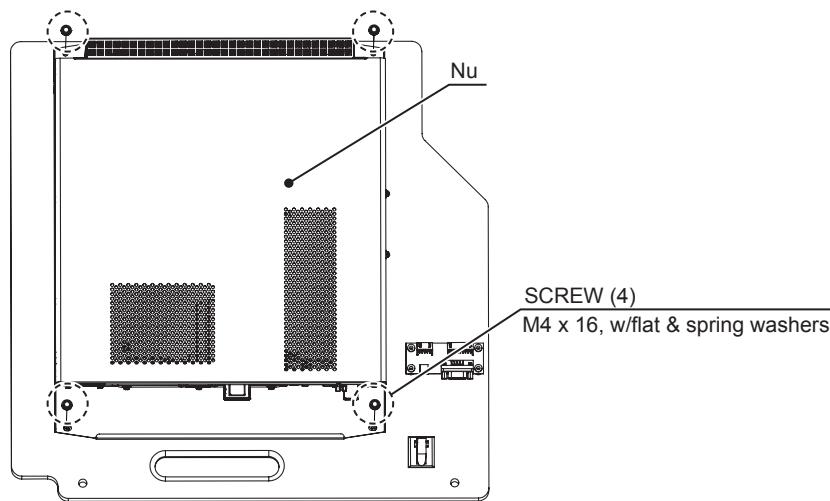
- 6** Remove 2 wing bolts and pull out the wooden base with the Nu. When doing this, ensure that no cables get caught or snagged.



- 
- 7 Disconnect the 1 connector from the Nu.



- 8 Remove 4 screws and take off the Nu. When attaching, ensure that the Nu is facing the correct direction.



## 15-2 CLEANING THE Nu

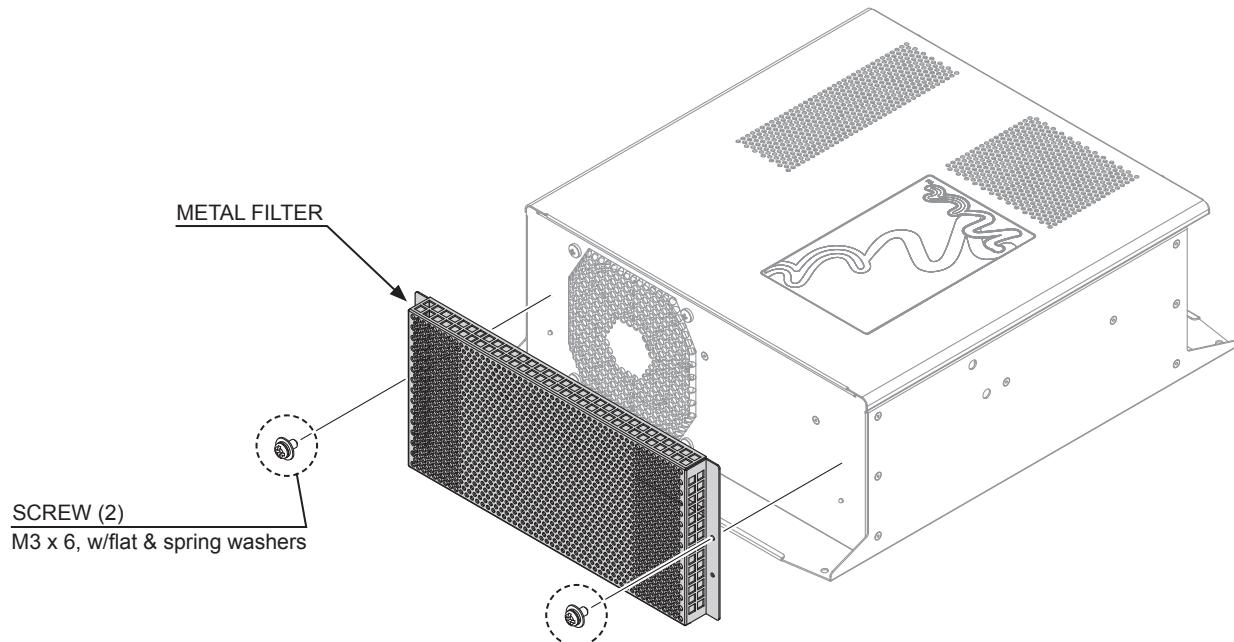
### STOP IMPORTANT

- Clean the Nu and installation area once a year or whenever either "Error 0090" or "Error 0091" occurs. Dust accumulating in game boards may not function properly.
- The parts, software, settings, etc. are different for each Nu. After cleaning, be sure to put the Nu back into the cabinet it was taken from. If it is put back into the wrong cabinet, it could lead to malfunctions or other problems.

Once a year remove the Nu from the cabinet and use a vacuum cleaner to clean around the Nu's air vents and installation area.

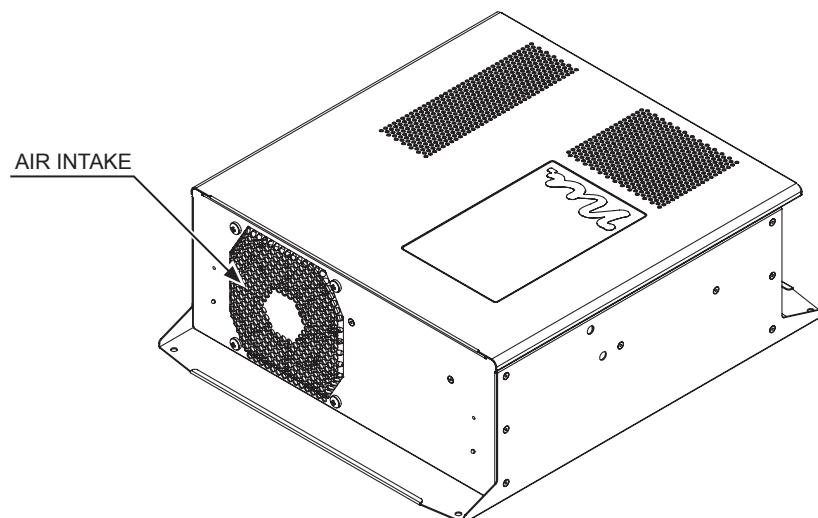
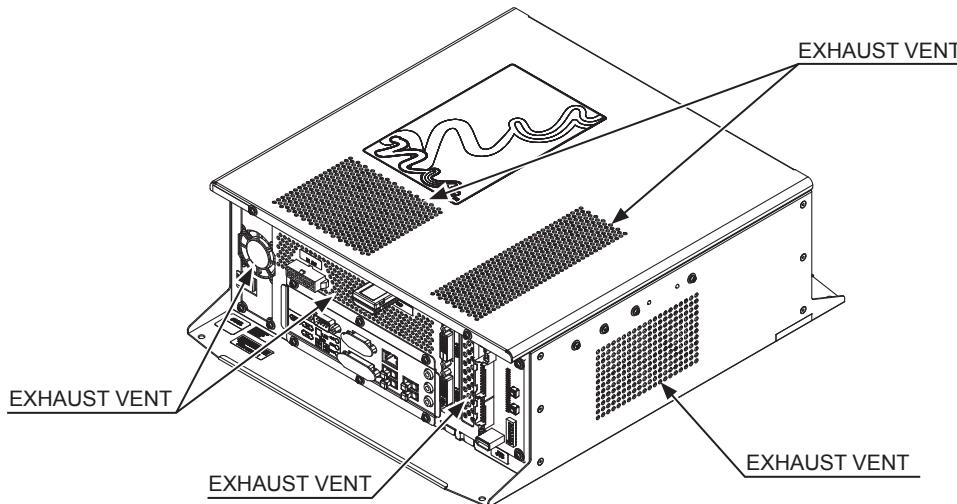
**1** Refer to "15-1" and take off the Nu from the cabinet.

**2** Remove 2 screws and take off the metal filter. The screws are on the opposite side of the connector face.

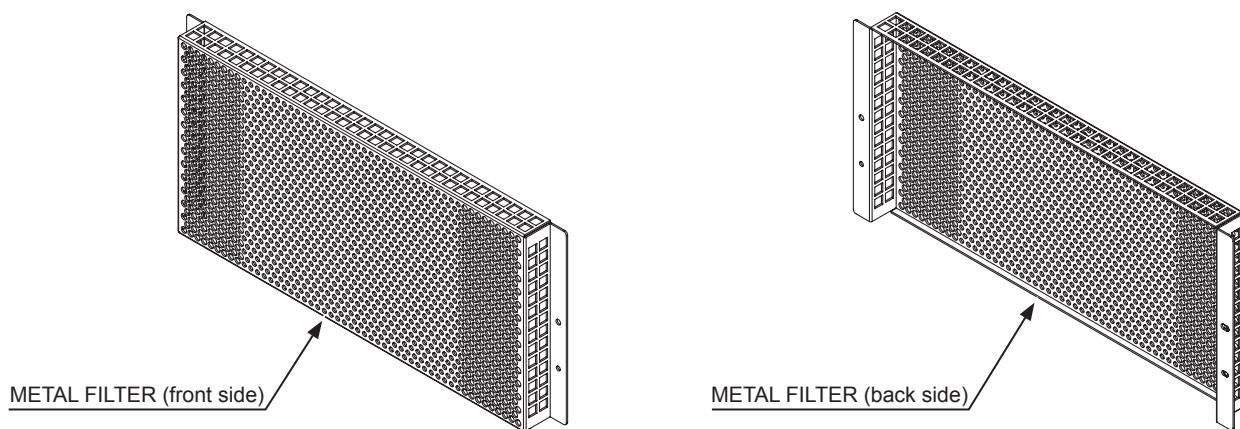


**3**

Clean the area around the Nu exhaust and intake vents and the front and back of the metal filter with a vacuum.



15

**4**

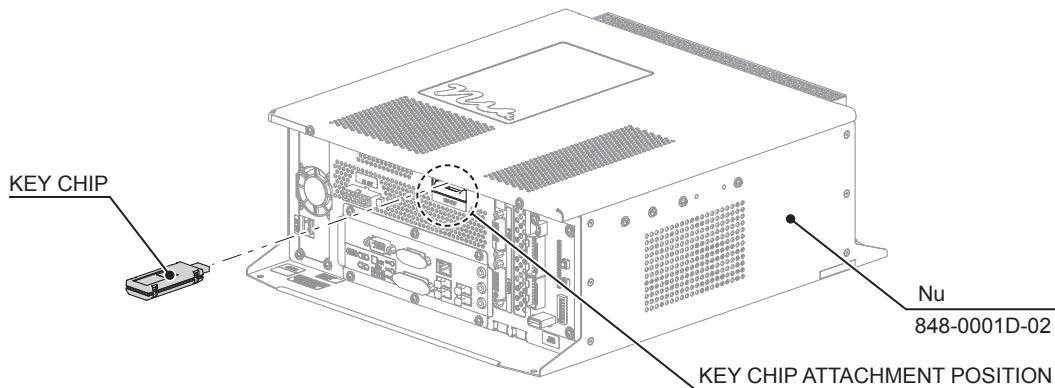
Clean around installment parts of the Nu in the cabinet with a vacuum cleaner. Be careful not to damage the cables.

**5**

Refer to "15-1" and work in reverse order to attach the Nu to the original position.

### 15-3 REPLACING THE Nu

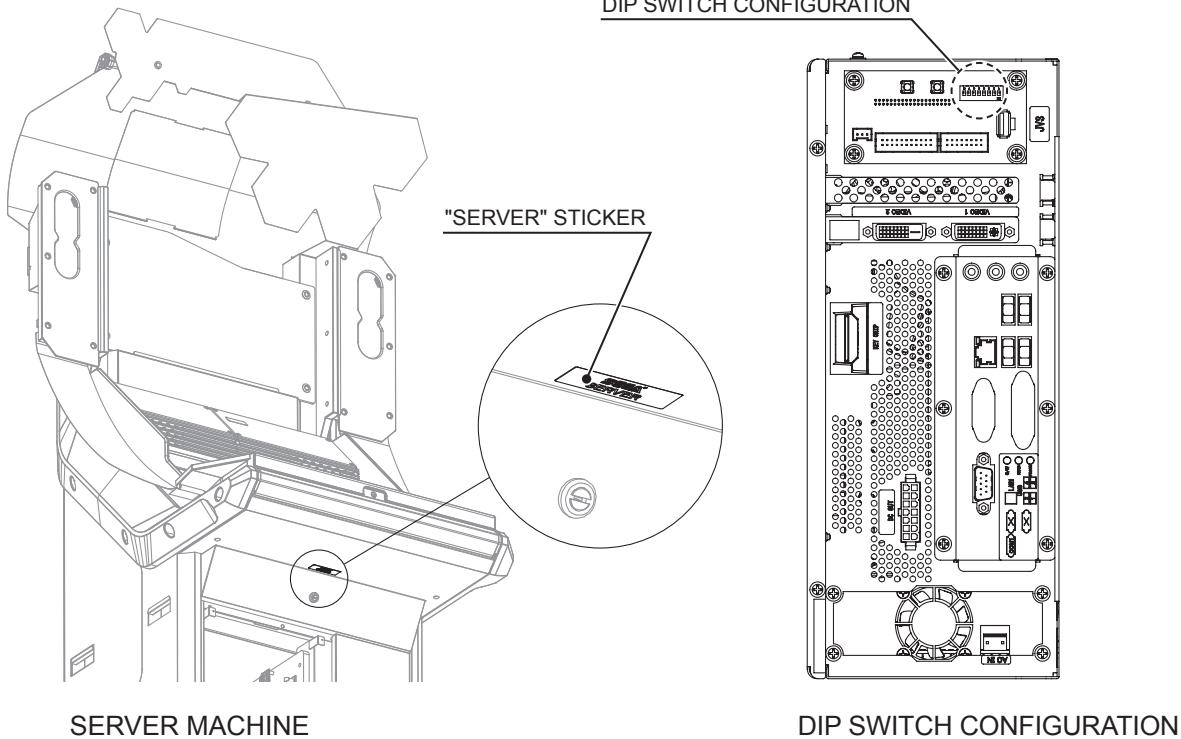
- 1** Refer to "15-1" and take off the Nu from the cabinet.
- 2** Remove the key chip from the Nu that has been taken off.



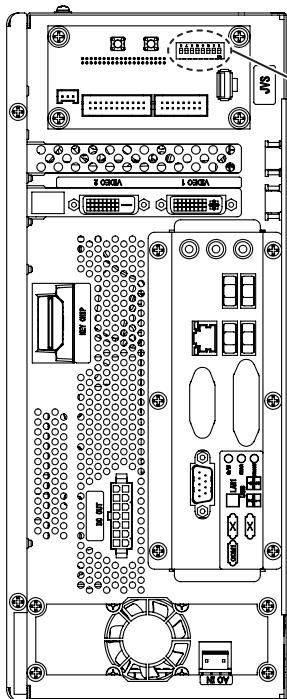
- 3** Insert the key chip that was removed in step 2 into the replacement Nu. When doing this, check the orientation of the key chip carefully and be sure to insert it all the way.
- 4** Refer to the diagram below to configure the replacement Nu's DIP switches. Set DIP switch numbers 1 and 7 to ON for the server machine, and only set number 7 to ON for all other cabinets. The server machine is distinguishable by the "SERVER" sticker in the middle of its underside of its control panel.

*NOTE: When only operating 1 cabinet, configure it as though it were the server machine.*

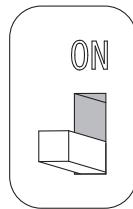
15



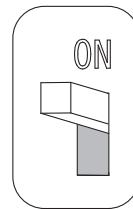
## DIP SWITCH SETTING



DIP SWITCH CONFIGURATION



No.1 is OFF



No.1 is ON

### DIP SWITCH CONFIGURATION (SERVER MACHINE)

No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8
ON	OFF	OFF	OFF	OFF	OFF	ON	OFF

### DIP SWITCH CONFIGURATION (ALL CABINETS EXCEPT SERVER MACHINE)

No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8
OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF

5

Refer to "15-1" and work in reverse order to attach the Nu to the original position.

## 16 REPLACING THE TOUCH-TYPE CARD READER

### ⚠ WARNING

- This work should be performed by site maintenance personnel or other qualified professionals. Work performed by non-technical personnel can cause a severe accident such as an electric shock.
- Before starting work, be sure to turn the power off. Working without turning the power off can cause an electric shock, short circuit or fire.
- Be careful not to damage the cables. Damaged cables may cause an electric shock, short circuit or fire.
- Be careful not to lose any fasteners (screws, nuts, or washers) during work. A metallic fastener dropped on an electrified section may cause an electric shock, short circuit or fire.

### ⚠ CAUTION

This work is performed by placing your hands inside a narrow cabinet. Work with care, as striking hands against the corners or edges of parts could result in skin abrasion.



### IMPORTANT

When turning the server machine's main power switch OFF during operating hours, ensure that there are no players using the connected cabinets before doing so. Once the main power switch is turned OFF, network transmissions are no longer possible. Furthermore, start the server machine before powering up each cabinet. If the server machine is started afterward, the in-store network may not operate correctly.

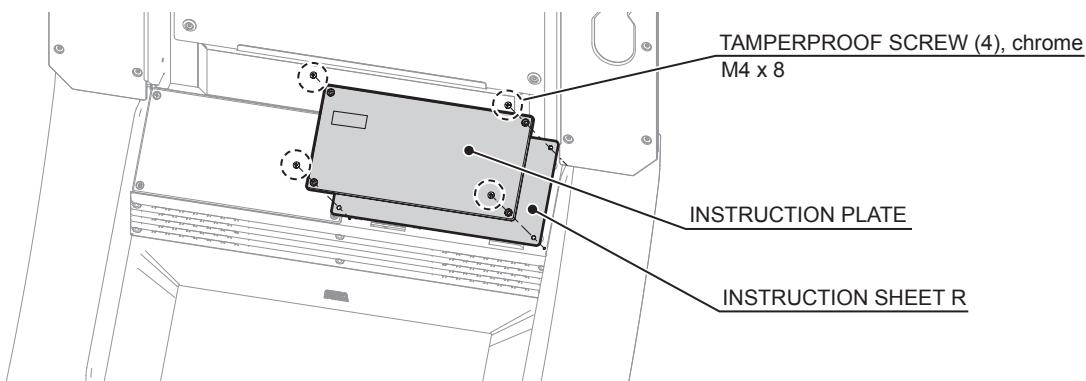
16

1

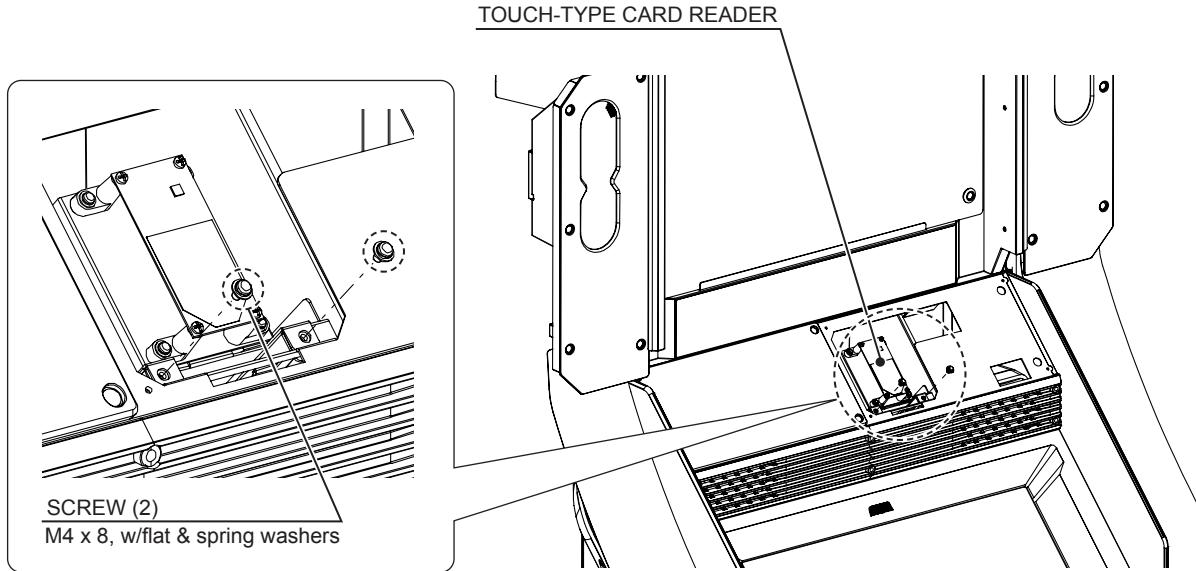
Turn OFF the main power switch on the cabinet.

2

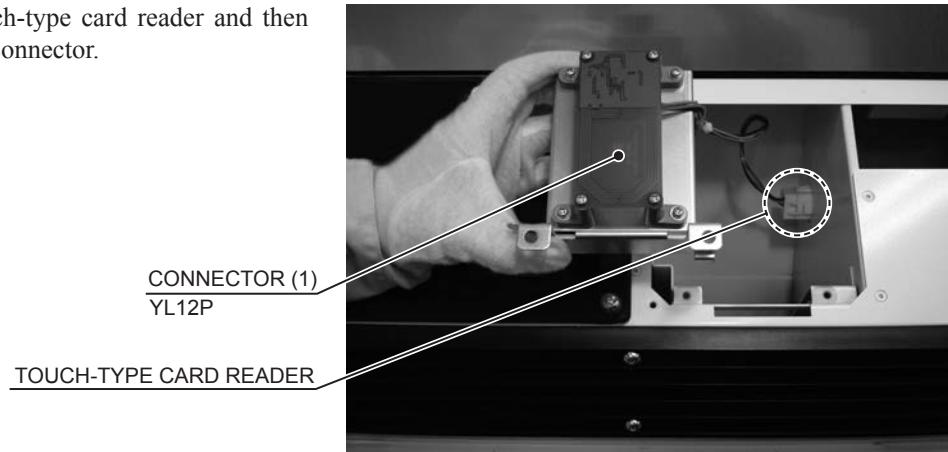
Remove 4 tamperproof screws and take off the instruction plate and instruction sheet R.



- 3** Remove 2 screws. When doing this, be careful not to drop the screws inside the cabinet. If you do, try to retrieve them to the best of your ability. The screws are electrically conductive, and if they come into contact with a board or current-carrying component, this could result in an electric shock or short circuit.

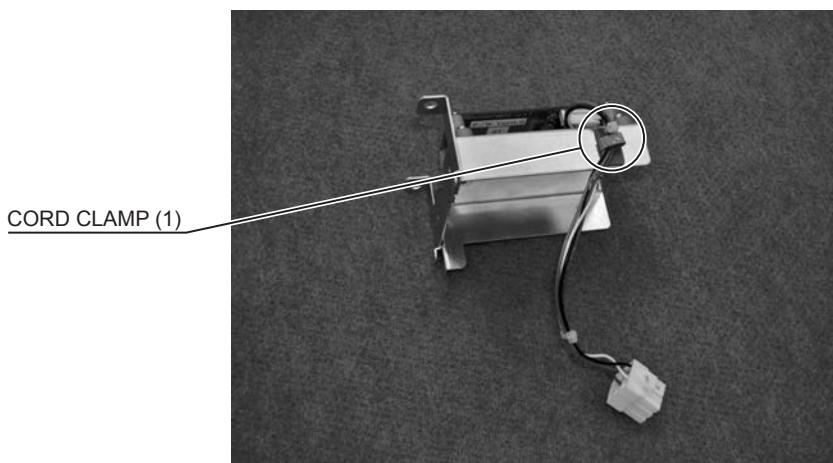


- 4** Take out the touch-type card reader and then disconnect the 1 connector.



16

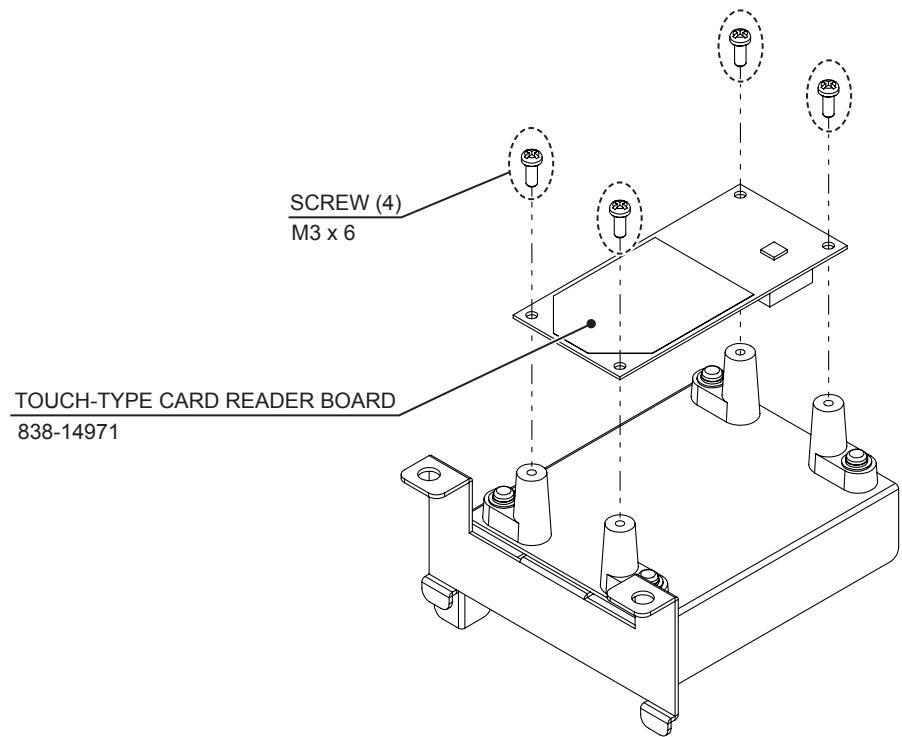
- 5** Undo 1 cord clamp.



---

**6**

Remove 4 screws and take off the touch-type card reader board.



---

**7**

Refer to Steps 2 to 6, work in reverse order to attach the replacement touch-type card reader board and reassemble the cabinet.

## 17 REMOVING THE BILLBOARD

### ⚠ WARNING

- This work should be performed by site maintenance personnel or other qualified professionals. Work performed by non-technical personnel can cause a severe accident such as an electric shock.
- Before starting work, be sure to turn the power off. Working without turning the power off can cause an electric shock, short circuit or fire.
- Be careful not to damage the cables. Damaged cables may cause an electric shock, short circuit or fire.

### ⚠ CAUTION

- Be careful in handling plastic parts. If such parts are exposed to excessive loads or impact, they might become damaged, resulting in fragments or cracks that could cause accidental injury.
- When opening/closing or attaching/removing doors or other parts, be careful that your hands or fingers do not get caught in anything.

STOP

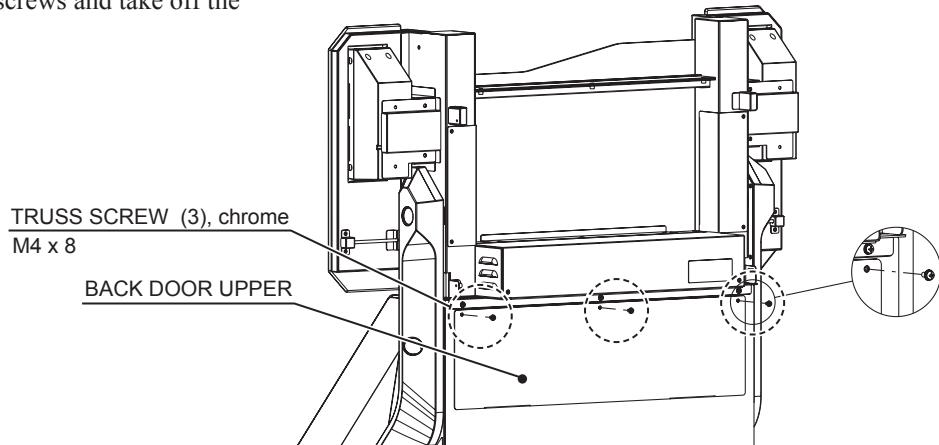
### IMPORTANT

When turning the server machine's main power switch OFF during operating hours, ensure that there are no players using the connected cabinets before doing so. Once the main power switch is turned OFF, network transmissions are no longer possible. Furthermore, start the server machine before powering up each cabinet. If the server machine is started afterward, the in-store network may not operate correctly.

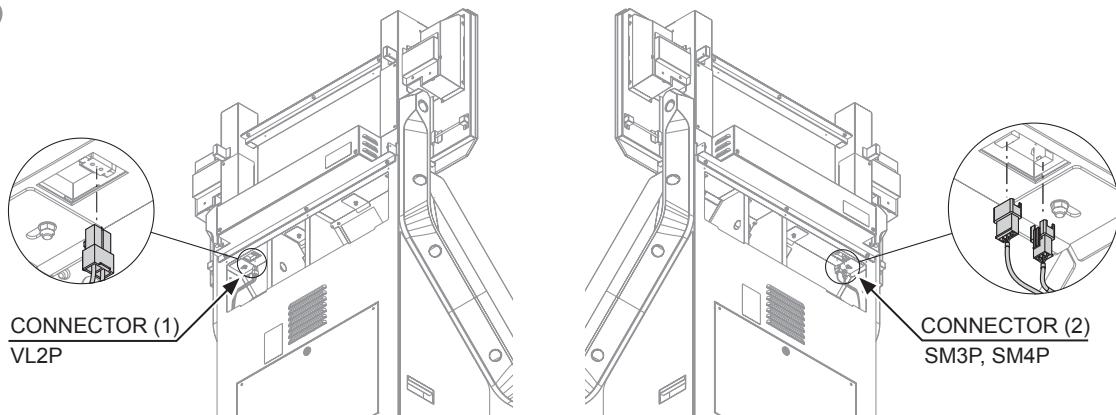
If the unit is unable to fit through a doorway, take off the billboard. The width of the cabinet is approximately 0.8 m (31.5 in.). A socket wrench (for M5) and Phillips screwdriver (for M4/M5) is required to perform the following work.

- 
- 1** Turn OFF the main power switch on the cabinet.

- 2** Remove 3 truss screws and take off the back door upper.

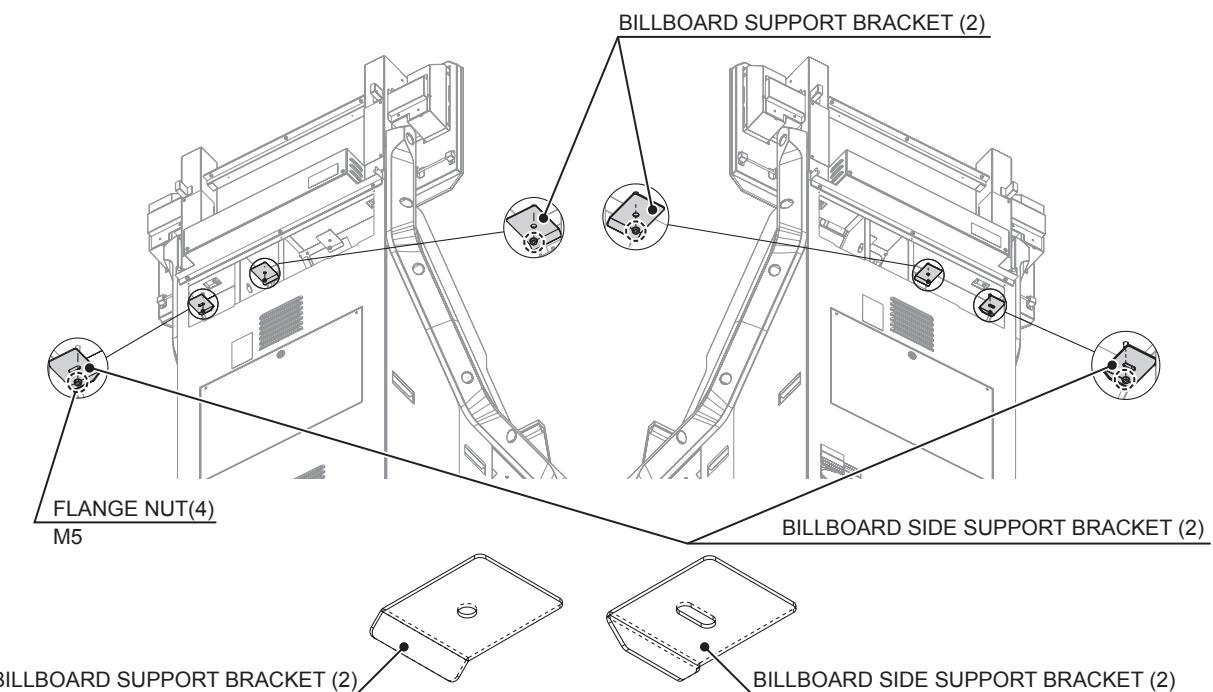


- 3** Disconnect the 3 connectors.

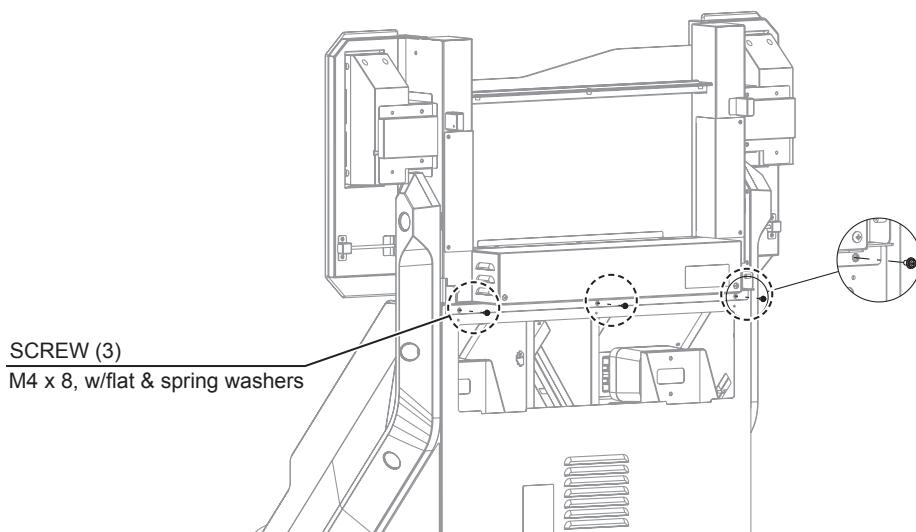


- 4** Use a socket wrench to remove 4 flange nuts and take off the 4 brackets.

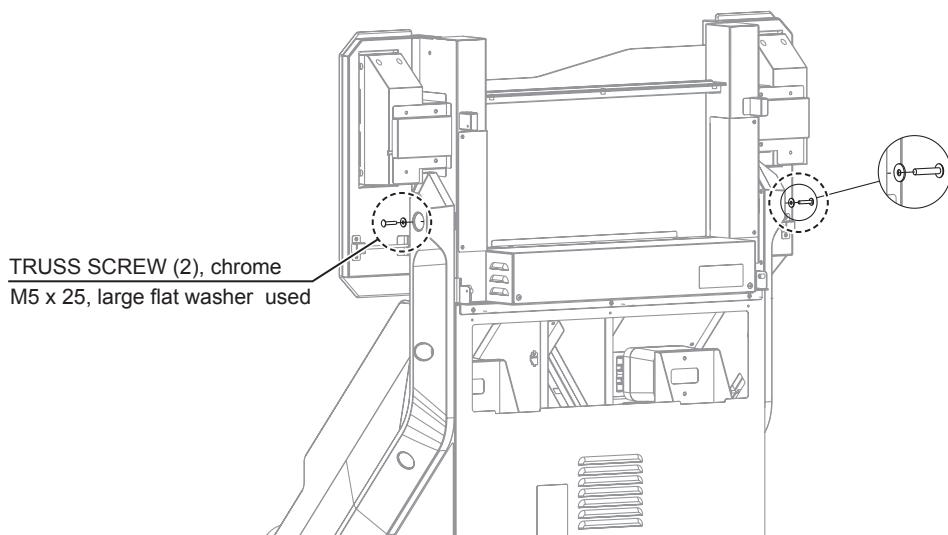
*NOTE: When attaching the brackets, pay attention to their shape and orientation.*



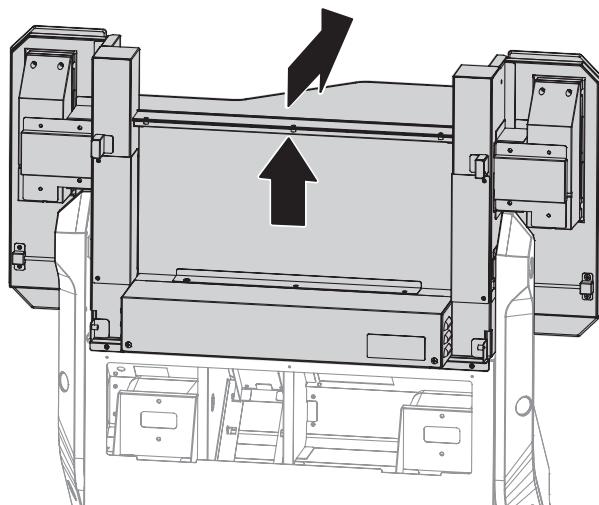
- 
- 5** Remove 3 screws.



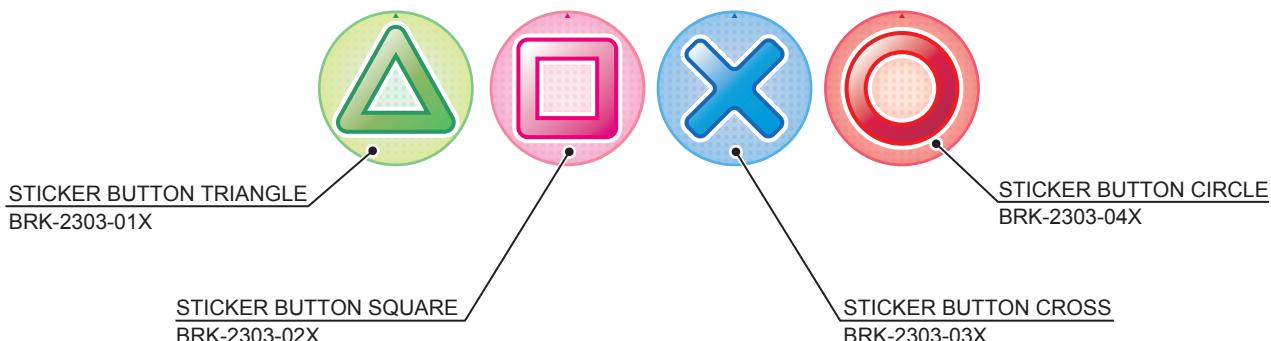
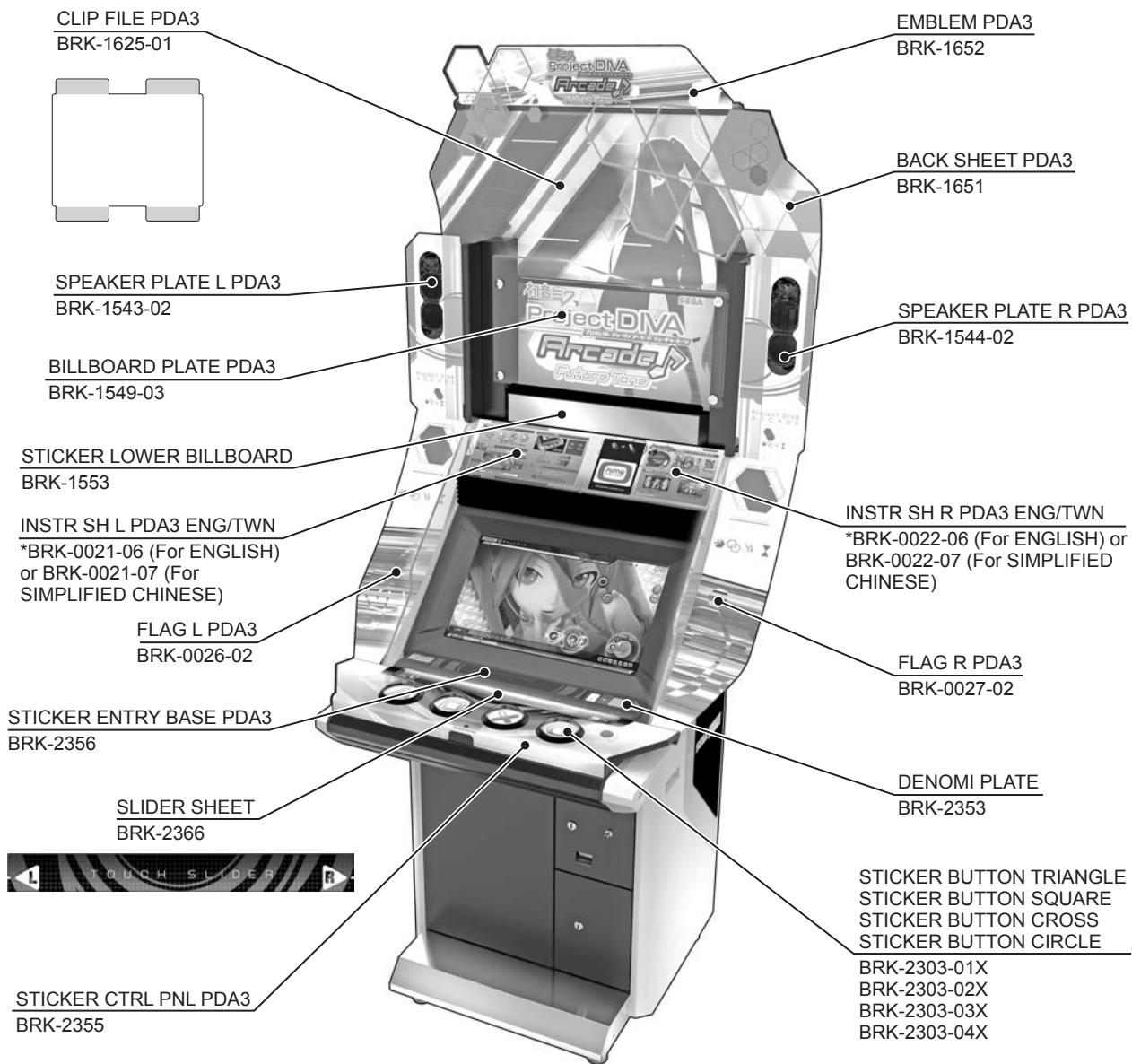
- 
- 6** Remove 2 truss screws, and the billboard is now loose.



- 
- 7** The billboard weighs 17 kg (37.5 lb). For safety reasons, use 2 or more workers when performing this task. Supporting the billboard, lift it up and then slide it to the front of the cabinet as shown in the figure to take it off.



## 18 DESIGN RELATED PARTS

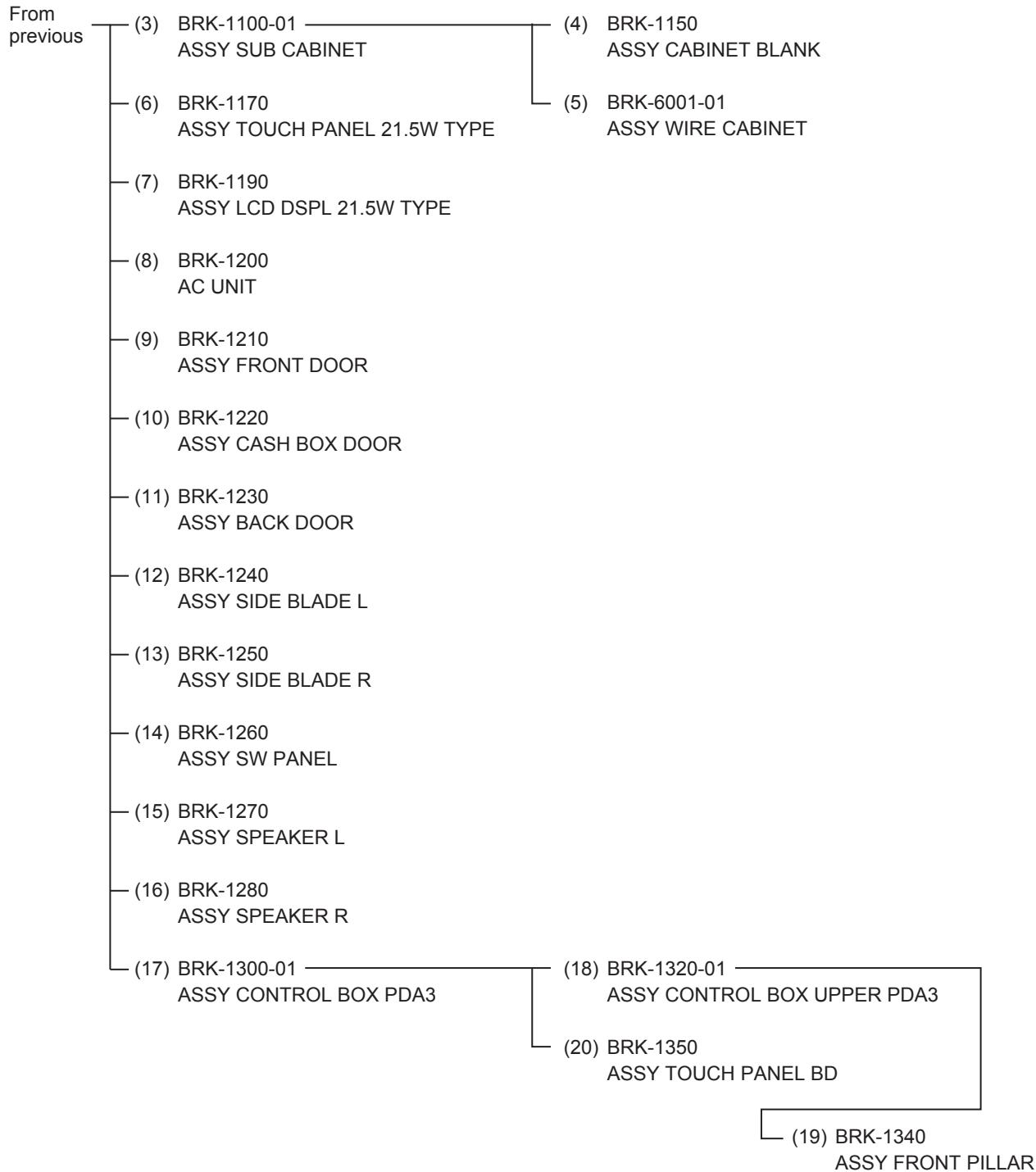


NOTE: \*The design related parts etc. depend on the area.

## 19 PARTS LIST

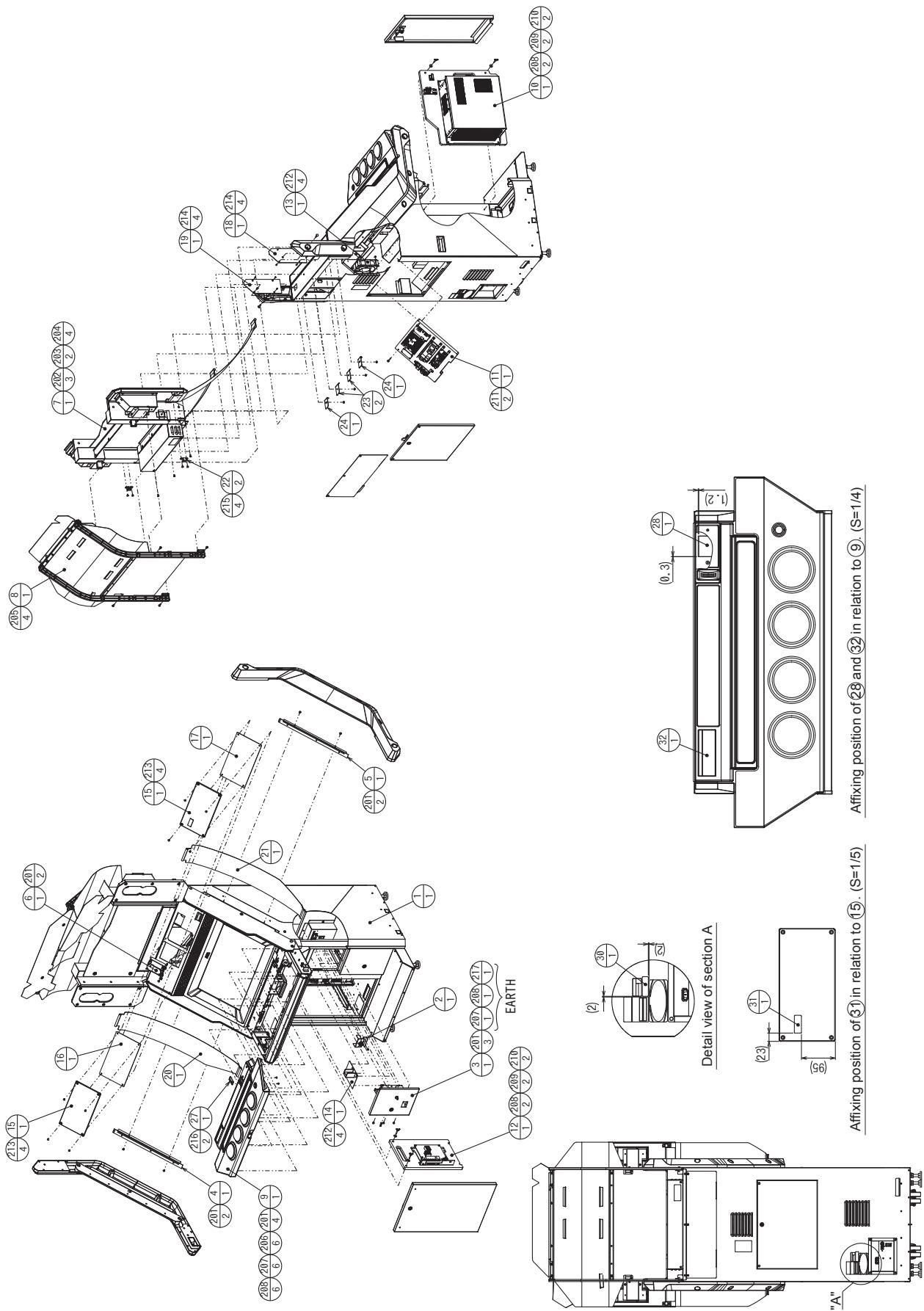
### LIST FORMATION CHART

- (1) TOP ASSY PROJECT DIVA ARCADE 3
- (2) BRK-1000-01 ASSY CABINET PDA3
  - To next
- (21) BRK-1290 ASSY UPPER VOLUME
- (22) BRK-1400 ASSY SELECTOR DOOR
- (23) BRK-1410 ASSY SIDE LED BD L
- (24) BRK-1420 ASSY SIDE LED BD R
- (25) BRK-1440 NFC RW UNIT
- (26) BRK-1540-01 ASSY BILLBOARD PDA3
  - (27) BRK-1560 ASSY SPKR UPR L
- (30) BRK-1650 ASSY POP PDA3
  - (28) BRK-1570 ASSY SPKR UPR R
  - (29) BRK-4300 ASSY AMP BD
- (31) BRK-2350 ASSY CONTROL PANEL PDA3
  - (32) BRK-2360 ASSY TOUCH SLIDER PDA3
- (34) BRK-4000-01 ASSY MAIN BD NU
  - (33) BRK-2370 ASSY HEADPHONE JACK PDA3
- (35) BRK-4100 ASSY ELEC BD
- (36) BRK-4200 ASSY XFMR 100-120V <AC 100-120 V area>  
BRK-4250 ASSY XFMR 220-240V <AC 220-240 V area>
- (37) BRK-4600 ASSY ROUTER BD PDA
- (38) 610-0757 FAN UNIT



## (1) TOP ASSY PROJECT DIVA ARCADE 3

(D-1/3)



## (1) TOP ASSY PROJECT DIVA ARCADE 3

(D-2/3)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1000-01	ASSY CABINET PDA3	
2	BRK-1290	ASSY UPPER VOLUME	
3	BRK-1400	ASSY SELECTOR DOOR	
4	BRK-1410	ASSY SIDE LED BD L	
5	BRK-1420	ASSY SIDE LED BD R	
6	BRK-1440	NFC RW UNIT	
7	BRK-1540-01	ASSY BILLBOARD PDA3	
8	BRK-1650	ASSY POP PDA3	
9	BRK-2350	ASSY CONTROL PANEL PDA3	
10	BRK-4000-01	ASSY MAIN BD NU	
11	BRK-4100	ASSY ELEC BD	
12	BRK-4600	ASSY ROUTER BD PDA	
13	610-0757	FAN UNIT	
14	BRK-0001	COIN BOX CHUTE	
15	BRK-0003	INSTR PLATE	
16	BRK-0021-06	INSTR SH L PDA3 ENG	<English>
	BRK-0021-07	INSTR SH L PDA3 TWN	<Simplified Chinese>
17	BRK-0022-06	INSTR SH R PDA3 ENG	<English>
	BRK-0022-07	INSTR SH R PDA3 TWN	<Simplified Chinese>
18	BRK-0024	BLADE BRKT L	
19	BRK-0025	BLADE BRKT R	
20	BRK-0026-02	FLAG L PDA3	
21	BRK-0027-02	FLAG R PDA3	
22	BRK-0028	POLE LID	
23	BRK-0029	BILLBOARD SPRT BRKT	
24	BRK-0030	BILLBOARD SIDE SPRT BRKT	
25	BRK-0031-01	INSTR SH PDA TRANSPORT ENG	
26	SGM-4307	POLYE COVER 1000x1200x1900	
27	220-5428-01	COIN ENTRY 100YEN	<USA>
	220-5167-19	COIN ENTRY TAIWAN NT\$10	<Taiwan>
	220-5167-23	COIN ENTRY MARS	<Hong Kong>
	220-5167-15	COIN ENTRY ENG 1POUND	<Singapore>
28	421-7308-136	DENOMINATION SHEET BLANK	
29	421-8075-116	JASRAC STICKER PDA VER A REV 3	
32	440-CS0186XEG	STICKER C EPILEPSY 40 ENG	
101	280-5275-SR10	CORD CLAMP SR10	
201	000-P00408-W	M SCR PH W/FS M4x8	
202	000-P00408-WB	M SCR PH W/FS BLK M4x8	
203	000-T00525-0C	M SCR TH CRM M5x25	
204	050-F00500	FLG NUT M5	
205	000-P00420-WB	M SCR PH W/FS BLK M4x20	
206	050-H00400	HEX NUT M4	
207	060-F00400	FLT WSHR M4	
208	060-S00400	SPR WSHR M4	
209	032-000425	WING BLT M4x25	
210	068-441616	FLT WSHR 4.4-16x1.6	

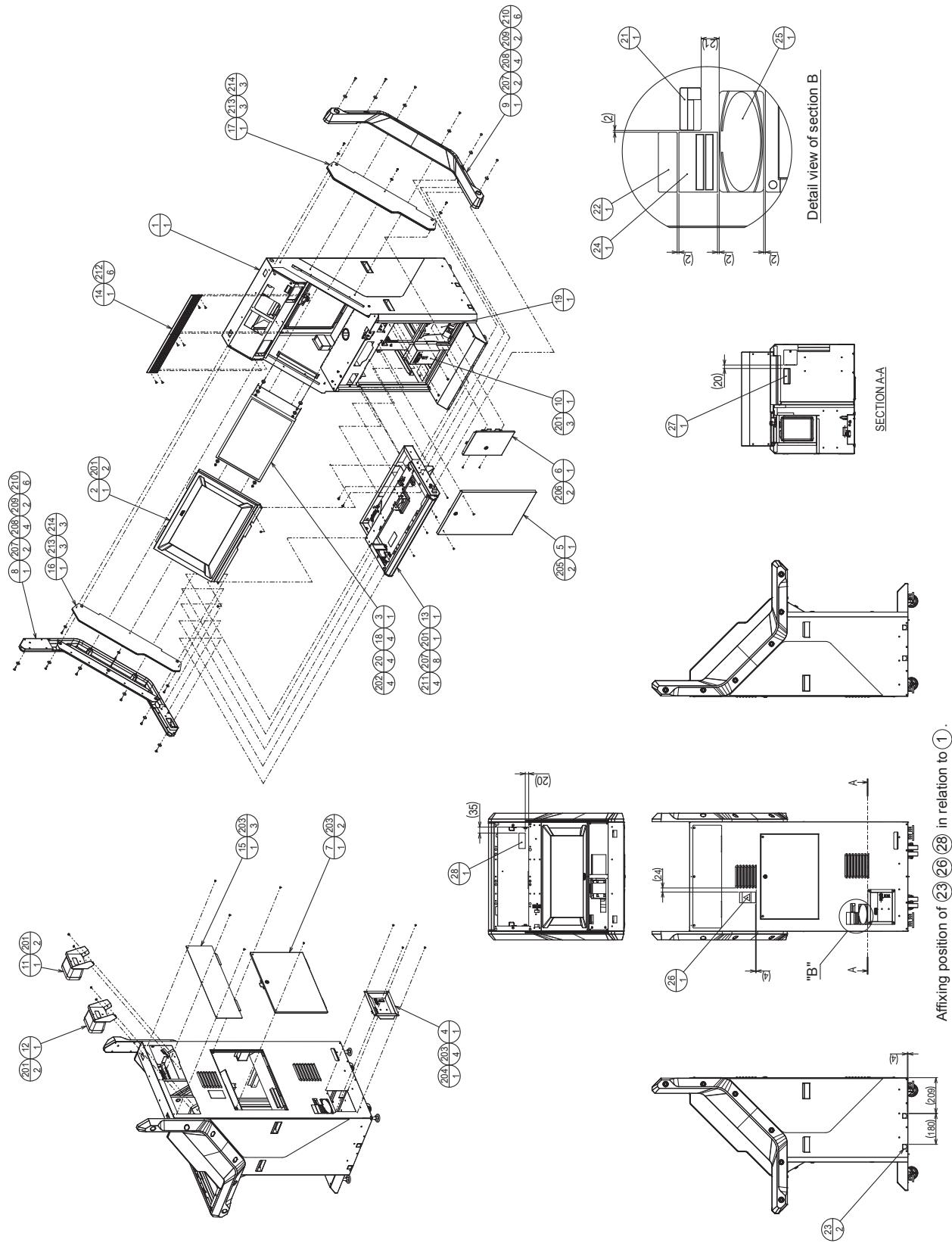
## (1) TOP ASSY PROJECT DIVA ARCADE 3

(D-3/3)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
211	000-P00425-W	M SCR PH W/FS M4x25	
212	050-F00400	FLG NUT M4	
213	008-T00408-0C	TMP PRF SCR TH CRM M4x8	
214	FAS-290086	SASH SCR FH BLK M4x8	
215	000-T00408-0B	M SCR TH BLK M4x8	
216	FAS-000142	M SCR PH W/SMALL FS M3x6	
217	000-P00408	M SCR PH M4x8	
301	BRK-60201	WH SOUND EXT FOR BILLBOARD	
302	BRK-60202	WH DC OUT FROM EDG	
303	BRK-60203	WH AC EXT	
304	BRK-60204X	WH SOUND VOLUME EXT	
305	600-7326	AC CABLE CONNECT TYPE USA 15A	<USA>
	600-6729-01	AC CABLE CONNECT TYPE 15A W/E	<Taiwan>
	600-6619-02	AC CABLE CONNECT TYPE FOR UK	<Hong Kong, Singapore>
306	600-7269-0100	ASSY LAN CABLE 0100CM	
307	600-8061	ASSY 2 MINIJACK TO 1 MINIPLUG	
401	610-0894-0001	DVD SOFT KIT PDA3	
402	BRK-2365Y	SLIDER FILM	
403	BRK-60219	WH DC IN DVD DRIVE	
404	SGM-4111Y	KEY BAG	
405	220-5793-2-A001	KEY MASTER A001	
406	420-7463	OWNERS MANUAL PDA3	
408	420-7462-01	SERVICE MANUAL NU ENG	
409	421-11708	STICKER SERVER	
410	540-0006-01	WRENCH M4 TMP SCR	
411	540-0007-01	WRENCH M5 TMP SCR	
412	600-7269-5000	ASSY LAN CABLE 5000CM	
413	600-7357-100	CA USB TYPE A-MINIB 100CM	
/	BRK-4200	ASSY XFMR 100-120V	<AC 100-120 V area>
	BRK-4250	ASSY XFMR 220-240V	<AC 220-240 V area>
/	000-P00525-W	M SCR PH W/FS M5x25	
/	421-13001-13	INSTR SH PDA3 O/M	
/	421-12170	STICKER RATING SUIT ALL	<USA>
/	421-12647-US	INSTR SH FCC WARNING USA ONLY	<USA>
/	421-11888-TA	INSTR SH NOTICE FOR TAIWAN	<Taiwan>

**(2) BRK-1000-01**  
**ASSY CABINET PDA3**

(D-1/2)



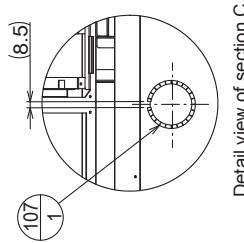
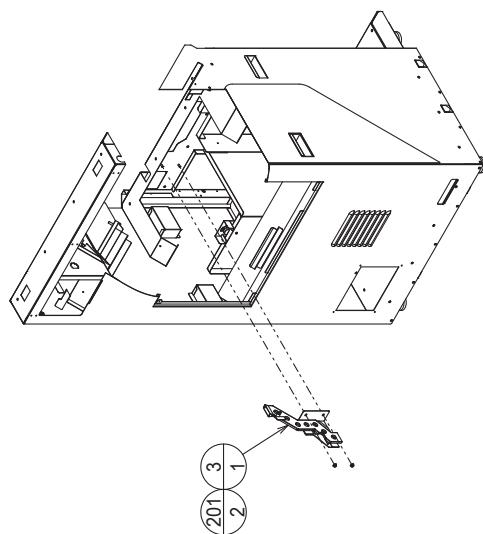
**(2) BRK-1000-01**  
**ASSY CABINET PDA3**

**(D-2/2)**

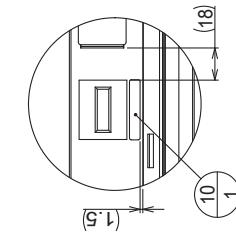
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1100-01	ASSY SUB CABINET	
2	BRK-1170	ASSY TOUCH PANEL 21.5W TYPE	
3	BRK-1190	ASSY LCD DSPL 21.5W TYPE	
4	BRK-1200	AC UNIT	
5	BRK-1210	ASSY FRONT DOOR	
6	BRK-1220	ASSY CASH BOX DOOR	
7	BRK-1230	ASSY BACK DOOR	
8	BRK-1240	ASSY SIDE BLADE L	
9	BRK-1250	ASSY SIDE BLADE R	
10	BRK-1260	ASSY SW PANEL	
11	BRK-1270	ASSY SPEAKER L	
12	BRK-1280	ASSY SPEAKER R	
13	BRK-1300-01	ASSY CONTROL BOX PDA3	
14	BRK-1001	SPEAKER BEZEL	
15	BRK-1002	BACK DOOR UPPER	
16	BRK-1004	PARTITION PLATE L	
17	BRK-1005	PARTITION PLATE R	
18	253-5258	SPACER	
19	253-5366	CASH BOX	
20	253-5543	BUSHING CE T=4	
23	421-11416	STICKER CAUTION FORK	
26	440-WS0002YEG	STICKER W POWER OFF ENG	
27	440-WS0165XEG	STICKER W BD POWER OFF S ENG	
28	440-CS0218XEG	STICKER C FINGER DOOR ENG	
101	280-5275-SR10	CORD CLAMP SR10	
201	000-P00408-W	M SCR PH W/FS M4x8	
202	050-F00500	FLG NUT M5	
203	000-T00408-0C	M SCR TH CRM M4x8	
204	050-F00400	FLG NUT M4	
205	008-T00408-0C	TMP PRF SCR TH CRM M4x8	
206	000-F00308	M SCR FH M3x8	
207	000-P00512-W	M SCR PH W/FS M5x12	
208	000-T00510-0C	M SCR TH CRM M5x10	
209	000-T00520-0C	M SCR TH CRM M5x20	
210	068-552016-0C	FLT WSHR CRM 5.5-20x1.6	
211	FAS-290086	SASH SCR FH BLK M4x8	
212	008-T00412-0C	TMP PRF SCR TH CRM M4x12	
213	000-P00416-W	M SCR PH W/FS M4x16	
214	068-441616	FLT WSHR 4.4-16x1.6	
/	421-12868	STICKER TN32MSEC003S FOR US	<USA>
	421-12743	STICKER TN32MSEC003S FOR TA	<Taiwan>

**(3) BRK-1100-01  
ASSY SUB CABINET**

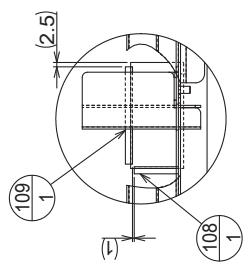
**(D-1/2)**



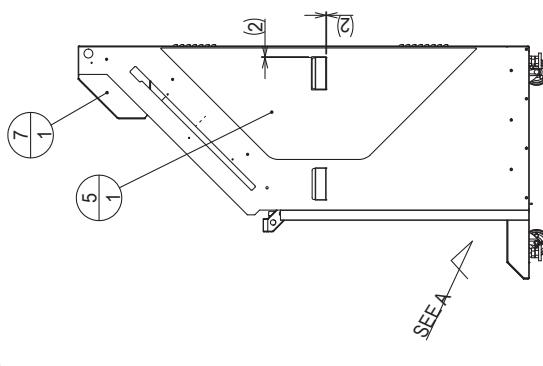
Detail view of section C



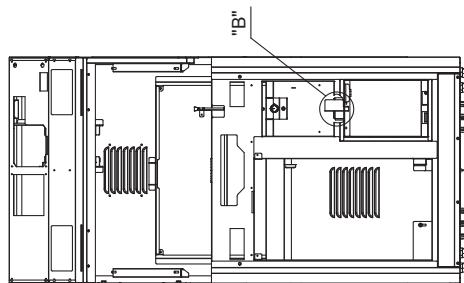
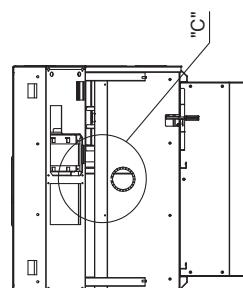
SEE A  
Affixing position of ⑩ in relation to ①.



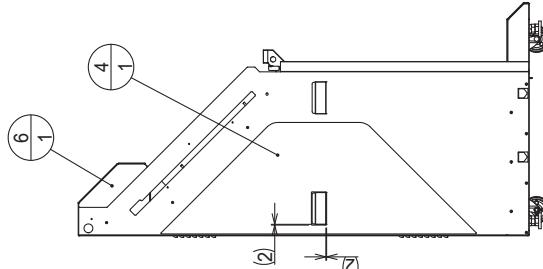
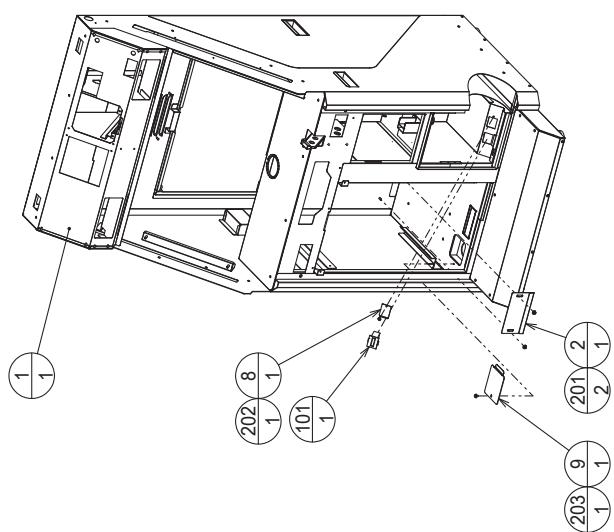
Detail view of section B



SEE A



Affixing position of ④⑤⑥⑦ in relation to ①.

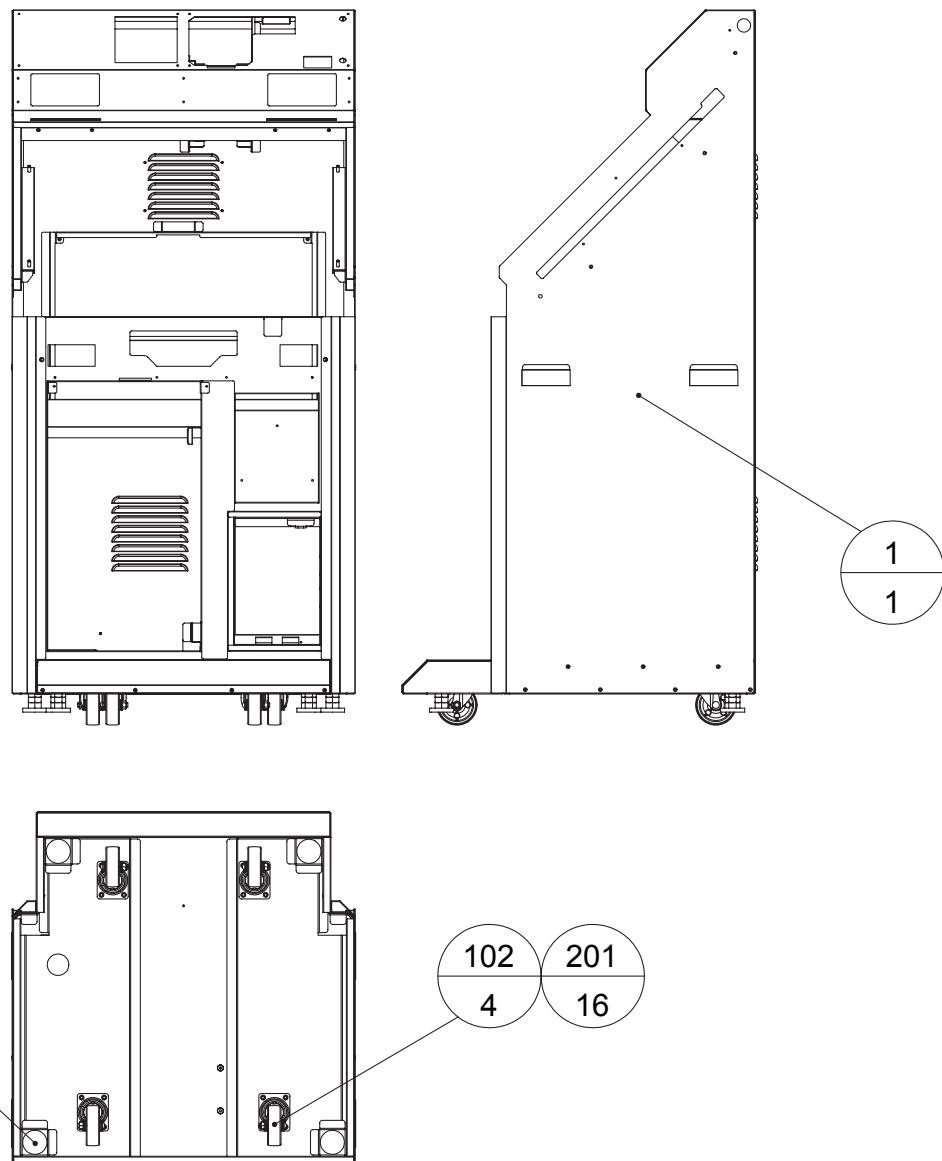


**(3) BRK-1100-01**  
**ASSY SUB CABINET**

**(D-2/2)**

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1150	ASSY CABINET BLANK	
2	BRK-1101	REAR PLATE	
3	BRK-1102X	COIN CHUTE	
4	BRK-1103	SIDE STICKER L LOWER	
5	BRK-1104	SIDE STICKER R LOWER	
6	BRK-1105	SIDE STICKER L UPPER	
7	BRK-1106	SIDE STICKER R UPPER	
8	HOT-1007	LID COIN CNTR	
9	LCA-1103	FLOOR LID	
10	421-6591-01	STICKER COIN METER	
101	220-5798-01	MAG CNTR 4P MZ674-DC5V-D41 JC	
102	270-5116	FERRITE CORE TDK ZCAT2032-0930	
103	270-5117	FERRITE CORE TDK ZCAT3035-1330	
104	280-6676	CORD CLAMP TL-25A TKK	
105	280-5275-SR10	CORD CLAMP SR10	
106	280-7892	CORD CLAMP TL-19AN	
107	601-5525-180	BUSH 1.2T 180MM	
108	601-6231-B025	EDGING NEW TYPE	
109	601-6231-B055	EDGING NEW TYPE	
201	050-F00400	FLG NUT M4	
202	000-P00308-W	M SCR PH W/FS M3x8	
203	000-P00408-W	M SCR PH W/FS M4x8	
301	BRK-6001-01	ASSY WIRE CABINET	
302	600-7141-91-100	CABLE JVS TYPE A-B 100CM	
303	600-8020-100-11	CA 3.5PLUG 3P X2 100CM SS YG	
304	600-8140-1500	ASSY CA DVI-D 1500MM KAWASAKI	

**(4) BRK-1150  
ASSY CABINET BLANK**



19

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1151	CABINET BLANK	
101	601-5699X	LEG ADJUSTER BOLT M16x75	
102	601-11158	CASTER 75 6NYLON	
201	030-000616-W	HEX BLT W/FS M6x16	
202	050-H01600-3	HEX NUT TYPE3 M16	

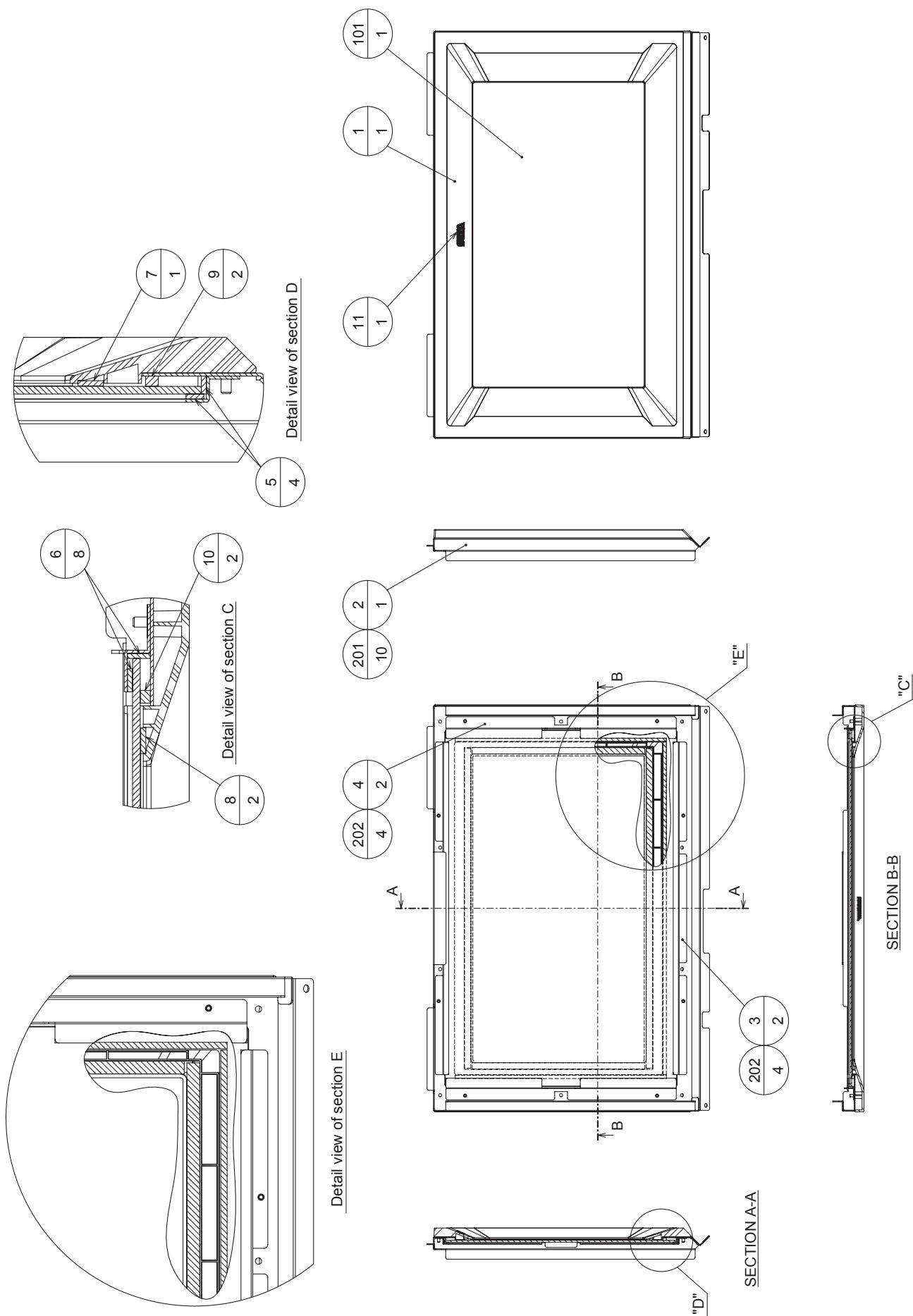
**(5) BRK-6001-01  
ASSY WIRE CABINET**

This is comprised of the following cable harnesses. ASSY drawing is not available.

ITEM NO.	PART NO.	DESCRIPTION	NOTE
101	601-0460	PLASTIC TIE BELT 100 M/M	
301	BRK-60005X	WH AC DISTRIBUTION	
302	BRK-60007	WH ASSY MAIN DC AND TOUCH	
303	BRK-60009X	WH REAR SOUND OUT	
304	BRK-60010	WH USB1 OUT	
305	BRK-60014	WH DC 24V OUT	
306	BRK-60015	WH DC 12V OUT	
307	BRK-60016	WH SPKR	
308	BRK-60017	WH IO BD OUT	
309	BRK-60018X	WH IO BD ANALOG OUT	
310	BRK-60022	WH SIDE LED	

**(6) BRK-1170  
ASSY TOUCH PANEL 21.5W TYPE**

(D-1/2)



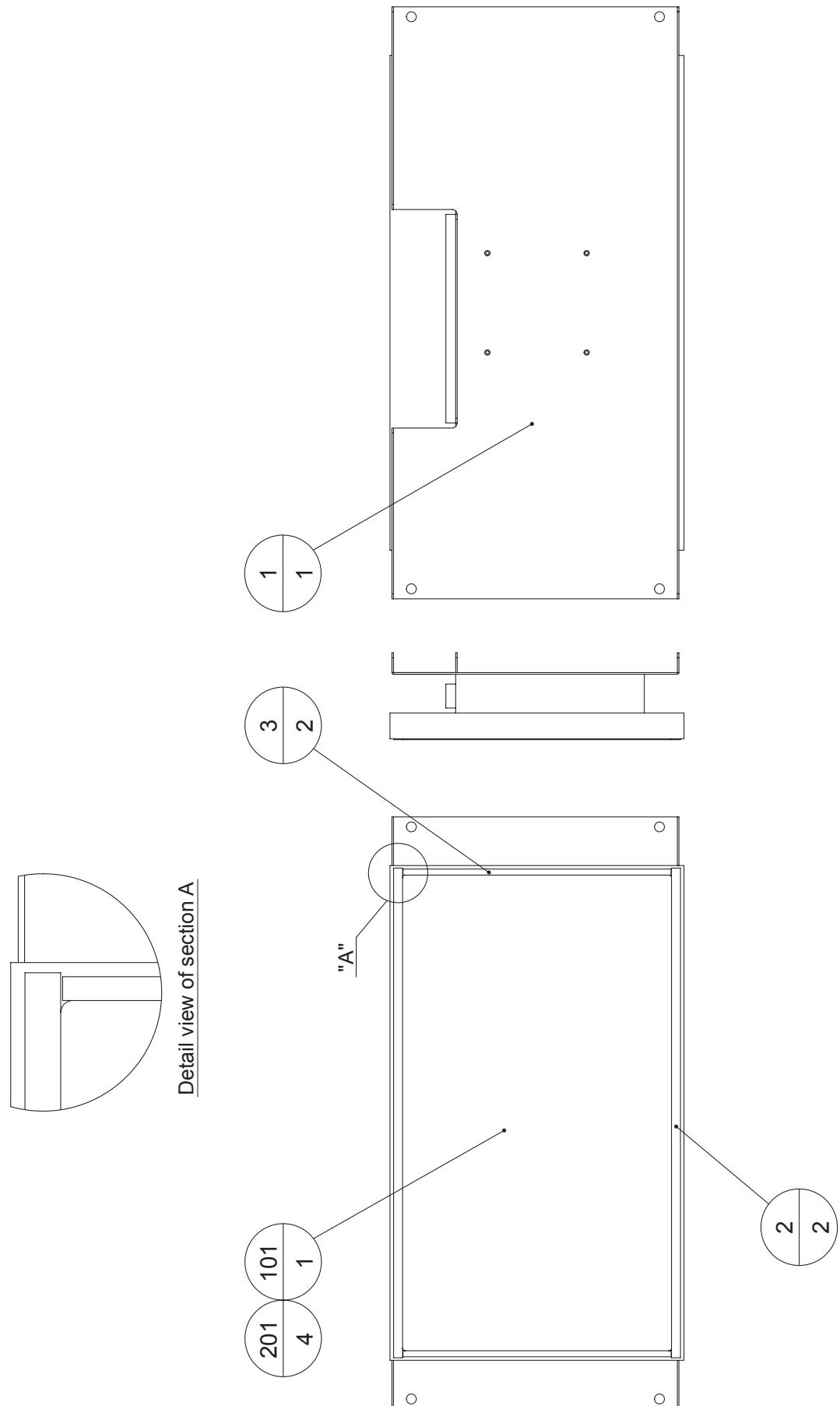
**(6) BRK-1170**  
**ASSY TOUCH PANEL 21.5W TYPE**

(D-2/2)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1171	MONITOR MASK	
2	BRK-1172	TOUCH PANEL BASE	
3	BRK-1173	TOUCH PANEL BRKT LONG	
4	BRK-1174	TOUCH PANEL BRKT SHORT	
5	BRK-1175	TOUCH PANEL RUBBER LONG	
6	BRK-1176	TOUCH PANEL RUBBER SHORT	
7	BRK-1177	TOUCH PANEL CUSHION LONG	
8	BRK-1178	TOUCH PANEL CUSHION SHORT	
9	BRK-1179	MONITOR MASK CUSHION LONG	
10	BRK-1180	MONITOR MASK CUSHION SHORT	
11	423-0355	EMBLEM SEGA	
101	509-6174-91	TOUCH PANEL 24W TYPE	
102	280-5275-SR10	CORD CLAMP SR10	
201	FAS-000097	M SCR PH W/SMALL FS M4x8	
202	050-F00400	FLG NUT M4	

(7) BRK-1190  
ASSY LCD DSPL 21.5W TYPE

(D-1/2)

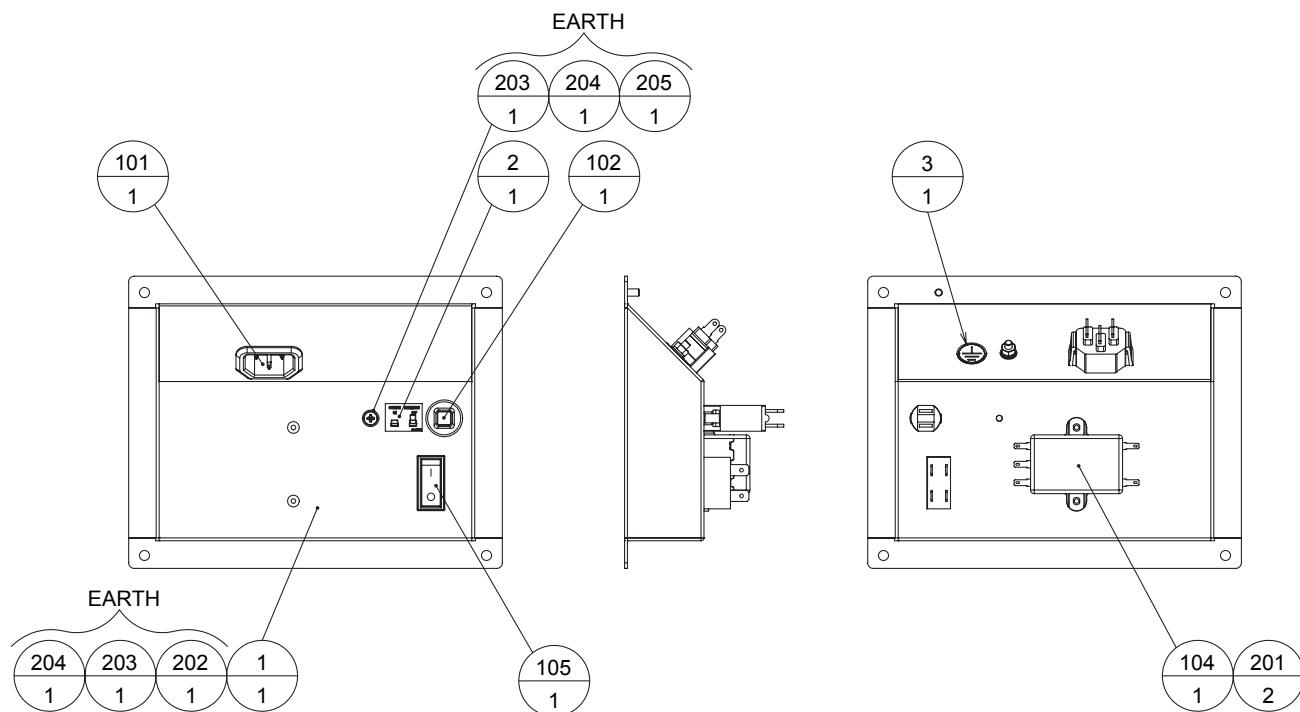


(7) BRK-1190  
ASSY LCD DSPL 21.5W TYPE

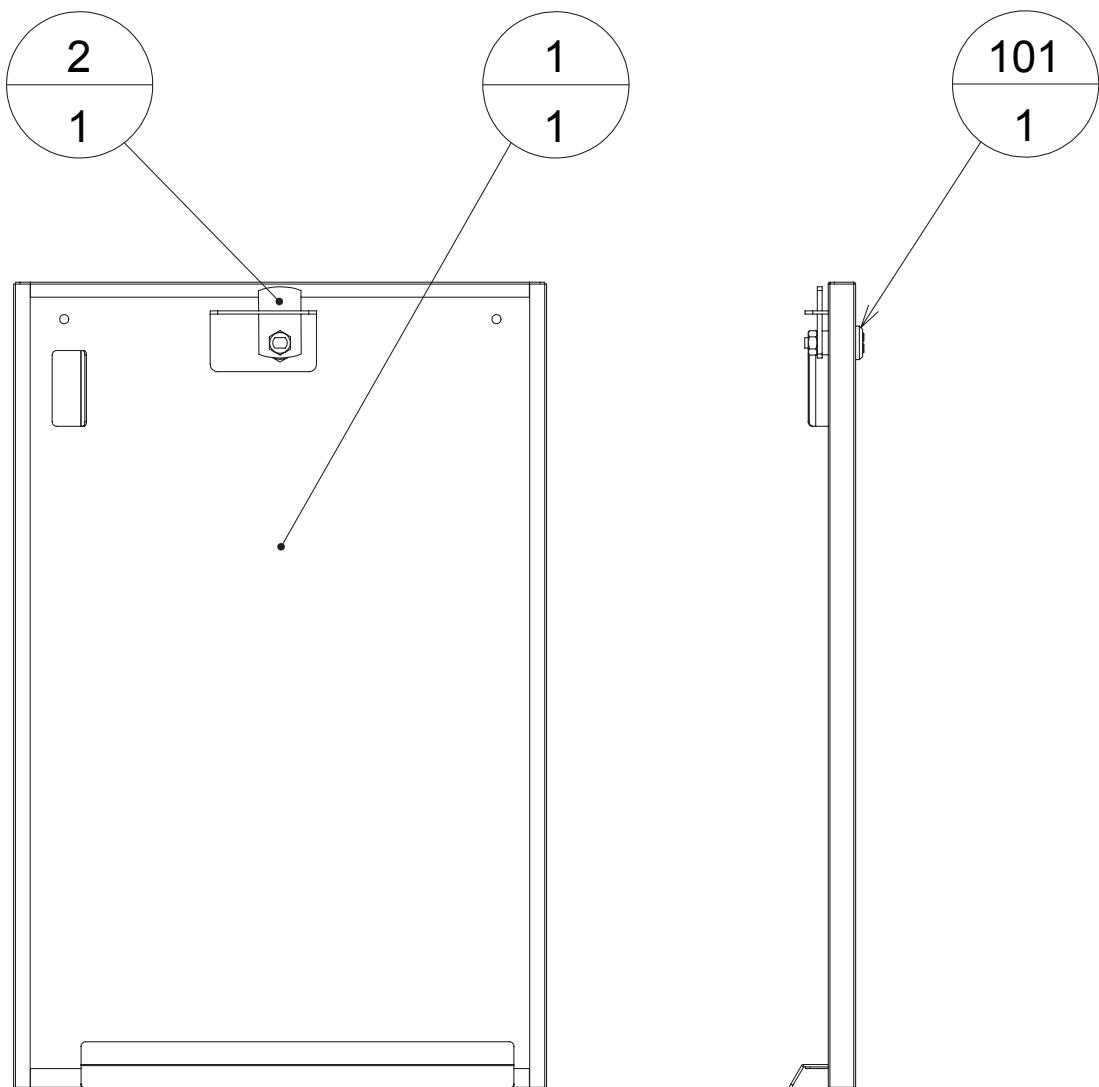
(D-2/2)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1191	LCD BASE 21.5W	
2	BRK-1192	LCD CUSHION LONG	
3	BRK-1193	LCD CUSHION SHORT	
101	200-6142-91-01	LCD DSPL 21.5W TYPE INVT T	
102	280-5277	CORD CLAMP 18	
201	000-P00408-W	M SCR PH W/FS M4x8	

## (8) BRK-1200 AC UNIT



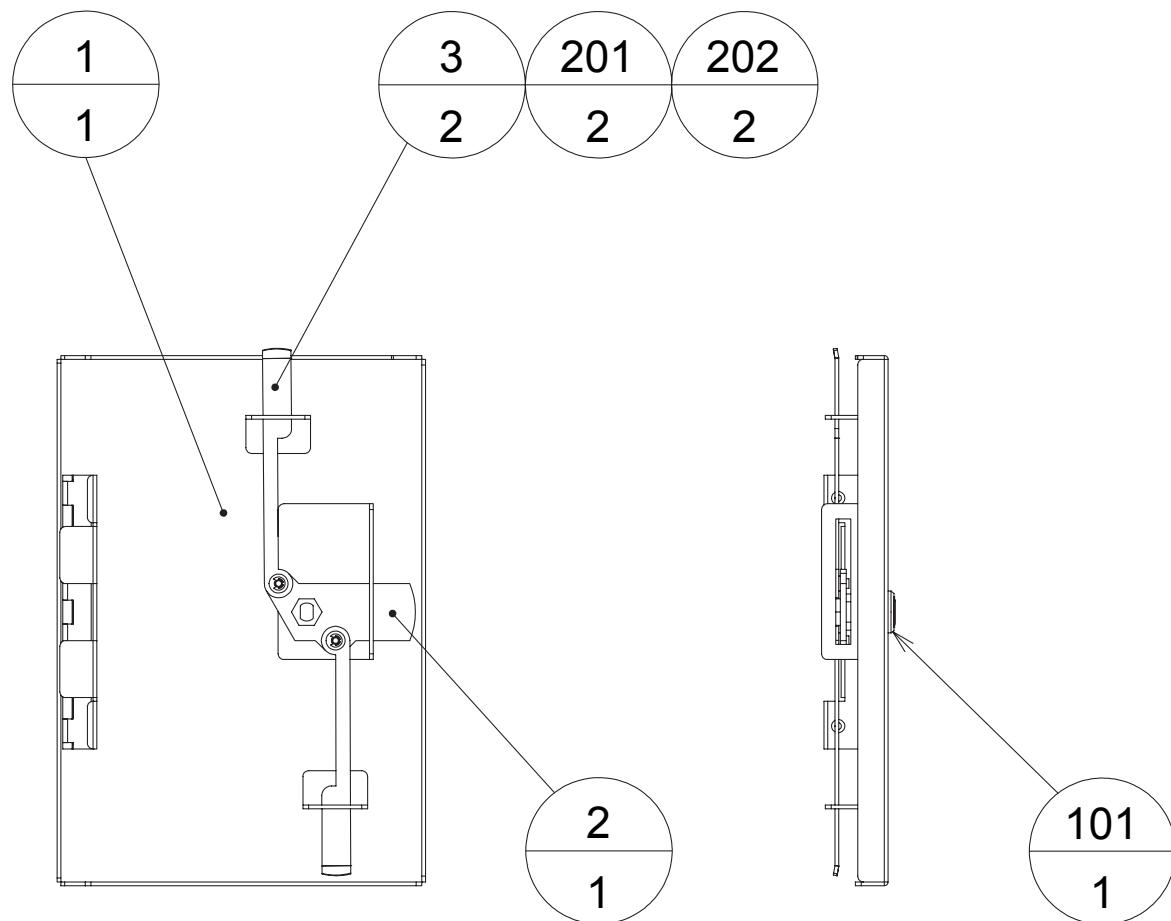
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1201	AC BRKT	
2	421-7468-02	STICKER C.P W/PIC	
3	421-8202	STICKER EARTH MARK	
101	214-0202	AC INLET PANEL TYPE	
102	512-5046-91-05	C.P 5A CE UL NRW10-5A-TK2421	<USA, Taiwan>
	512-5046-91-03	C.P 3A CE UL NRW10-3A-TK2421	<Hong Kong, Singapore>
104	270-5020	NOISE FILTER AC250V 6A	
105	509-6102-V-B	SW ROCKER J8 V-B AJ8202BF	
106	280-5275-SR10	CORD CLAMP SR10	
107	270-5117	FERRITE CORE TDK ZCAT3035-1330	
201	000-P00308-W	M SCR PH W/FS M3x8	
202	050-H00400	HEX NUT M4	
203	060-F00400	FLT WSHR M4	
204	060-S00400	SPR WSHR M4	
205	000-P00408	M SCR PH M4x8	
301	BRK-60001	WH AC UNIT IN	
302	BRK-60002	WH AC UNIT OUT	

**(9) BRK-1210  
ASSY FRONT DOOR**

19

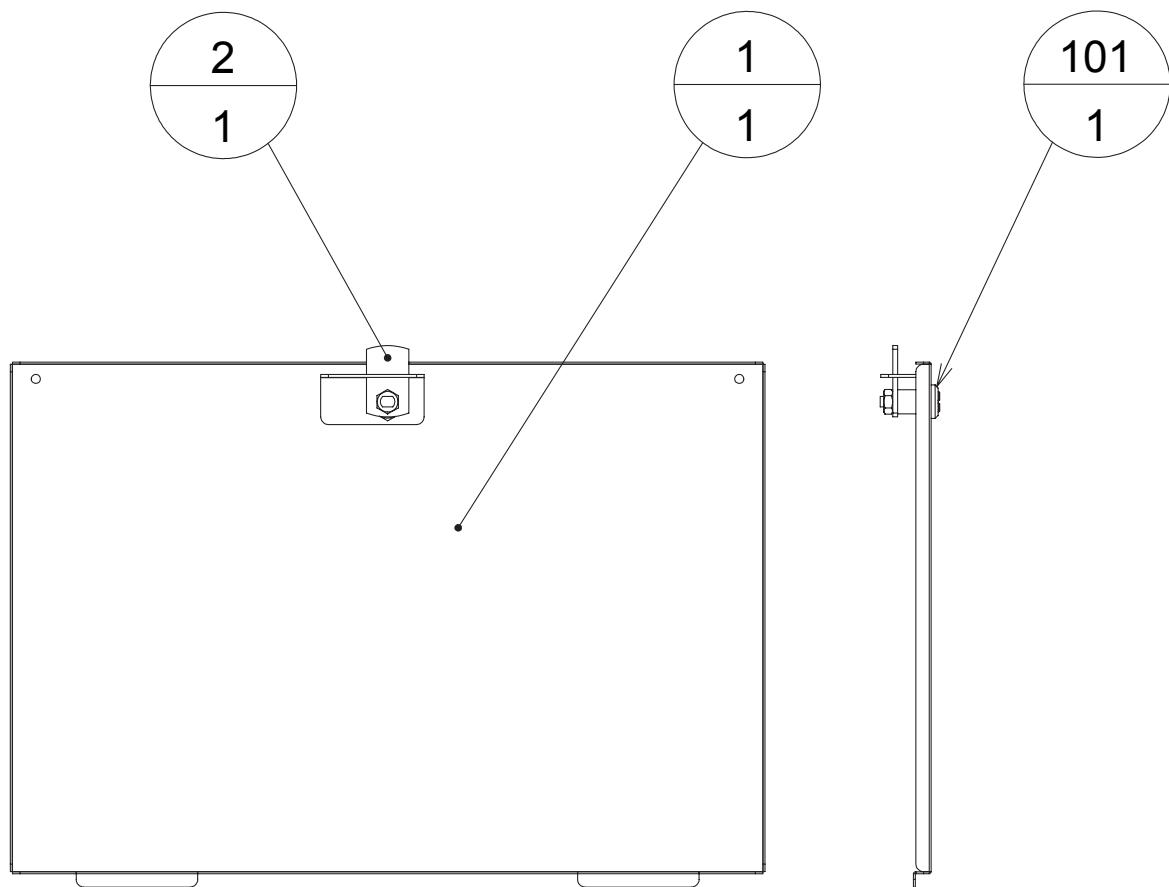
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1211	FRONT DOOR	
2	DP-1167	TNG LKG	
101	220-5793-1-A001	CLY LOCK MASTER W/O KEY A001	

**(10) BRK-1220**  
**ASSY CASH BOX DOOR**



19

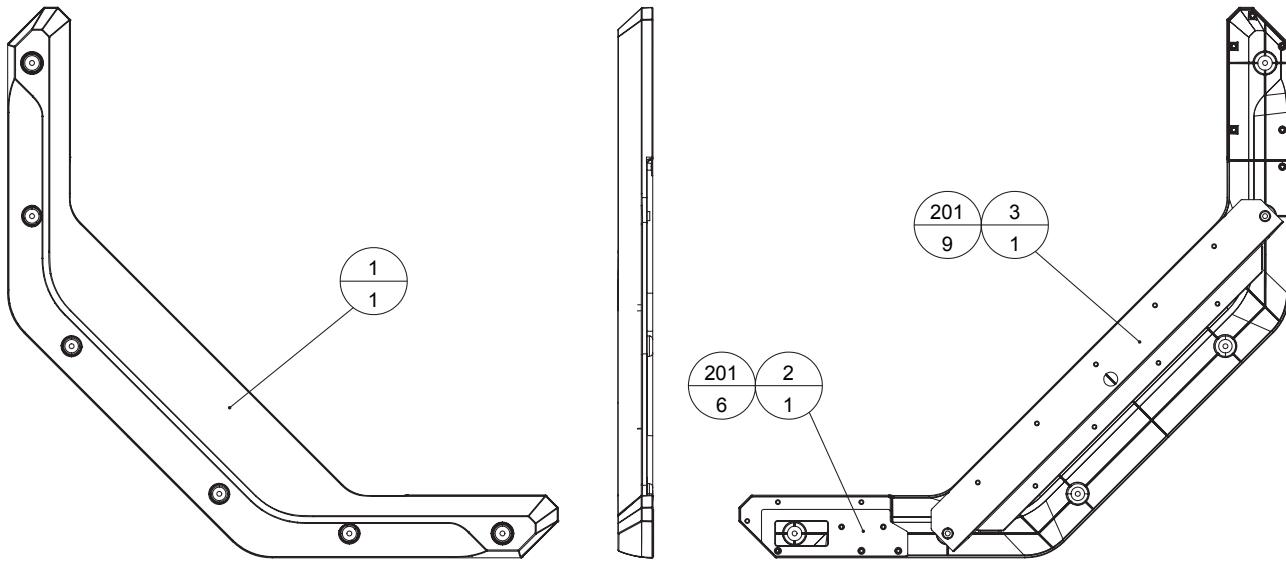
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1221X	CASH BOX DOOR	
2	HOT-1203X	CENTER TNG	
3	HOT-1204X	SIDE TNG	
101	220-5794	CLY LOCK W/KEYS	
201	060-F00400	FLT WSHR M4	
202	065-E00300	E RING 3MM	

**(11) BRK-1230  
ASSY BACK DOOR**

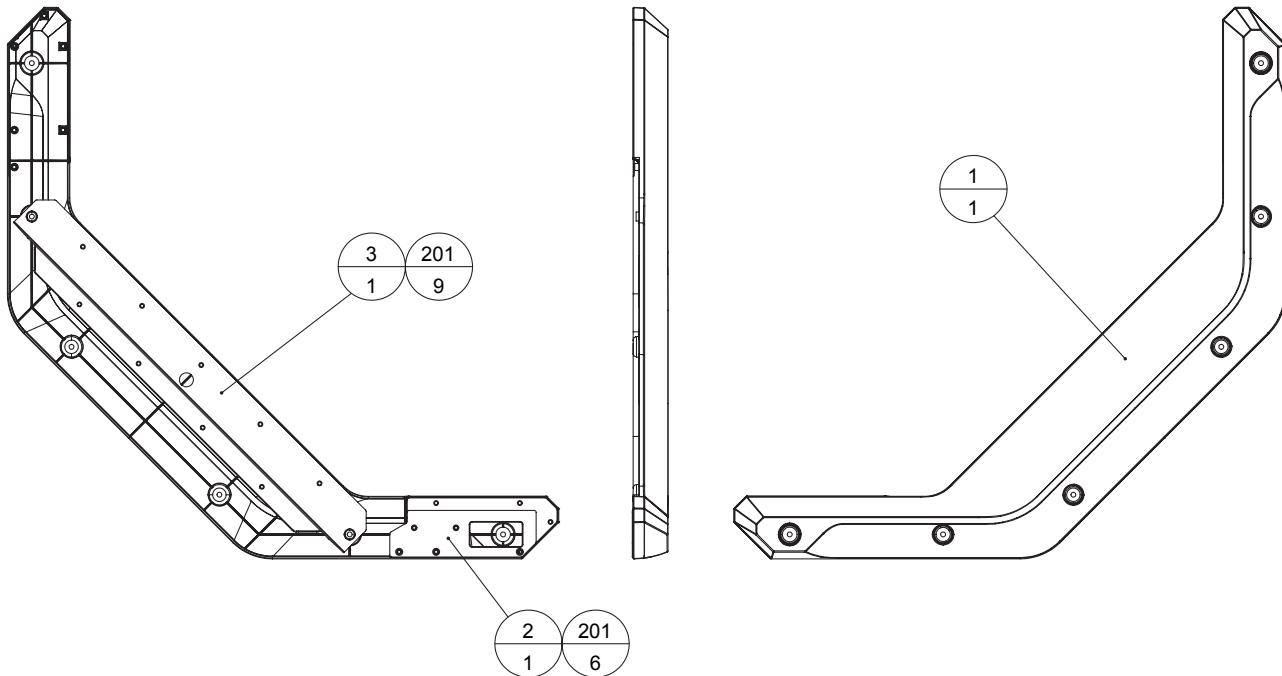
19

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1231	BACK DOOR	
2	DP-1167	TNG LKG	
101	220-5793-1-A001	CLY LOCK MASTER W/O KEY A001	

**(12) BRK-1240**  
**ASSY SIDE BLADE L**

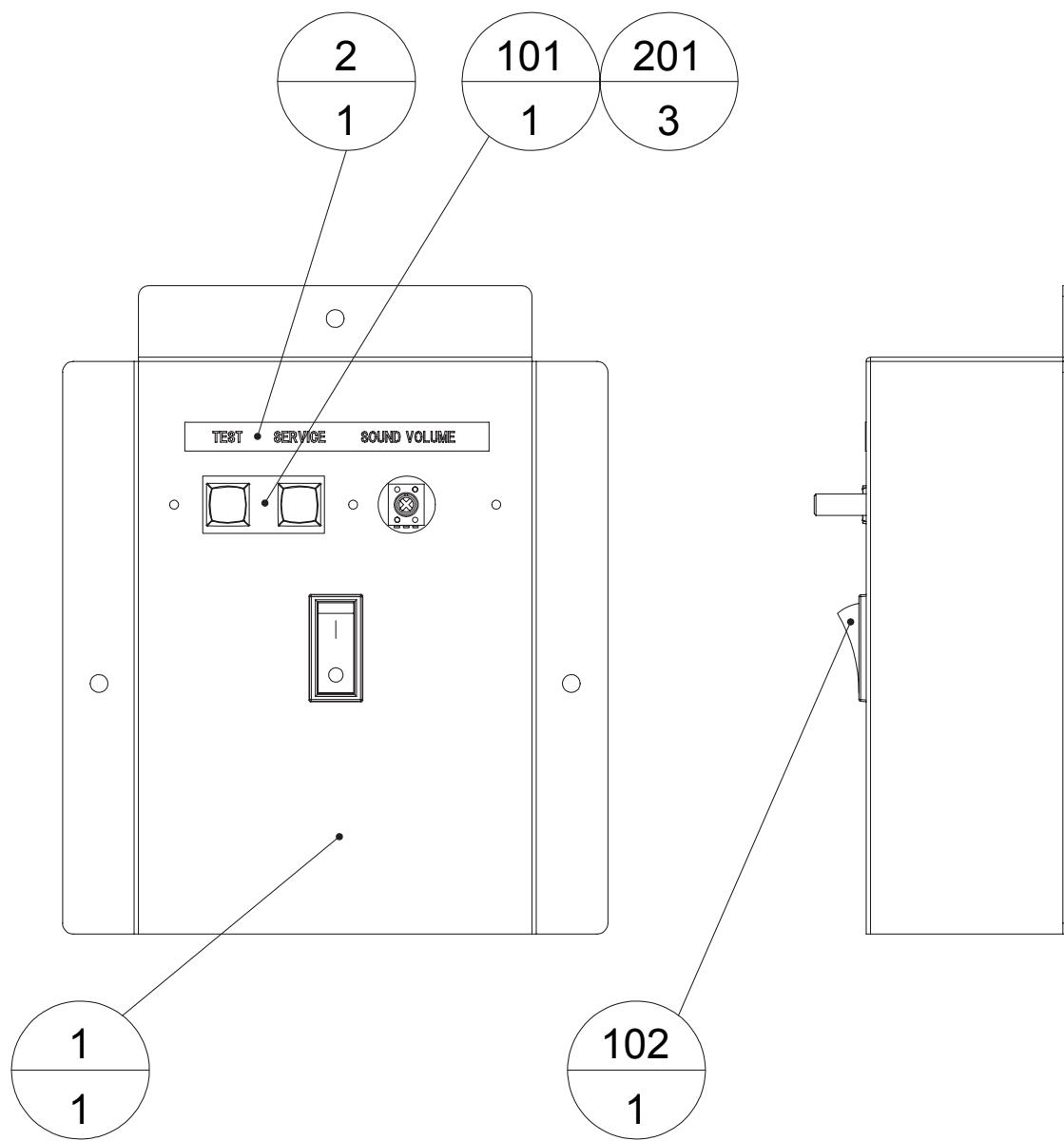


ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1241	SIDE BLADE	
2	BRK-1242	BLADE FRONT COVER L	
3	BRK-1243	BLADE LED COVER	
201	FAS-290086	SASH SCR FH BLK M4x8	

**(13) BRK-1250  
ASSY SIDE BLADE R**

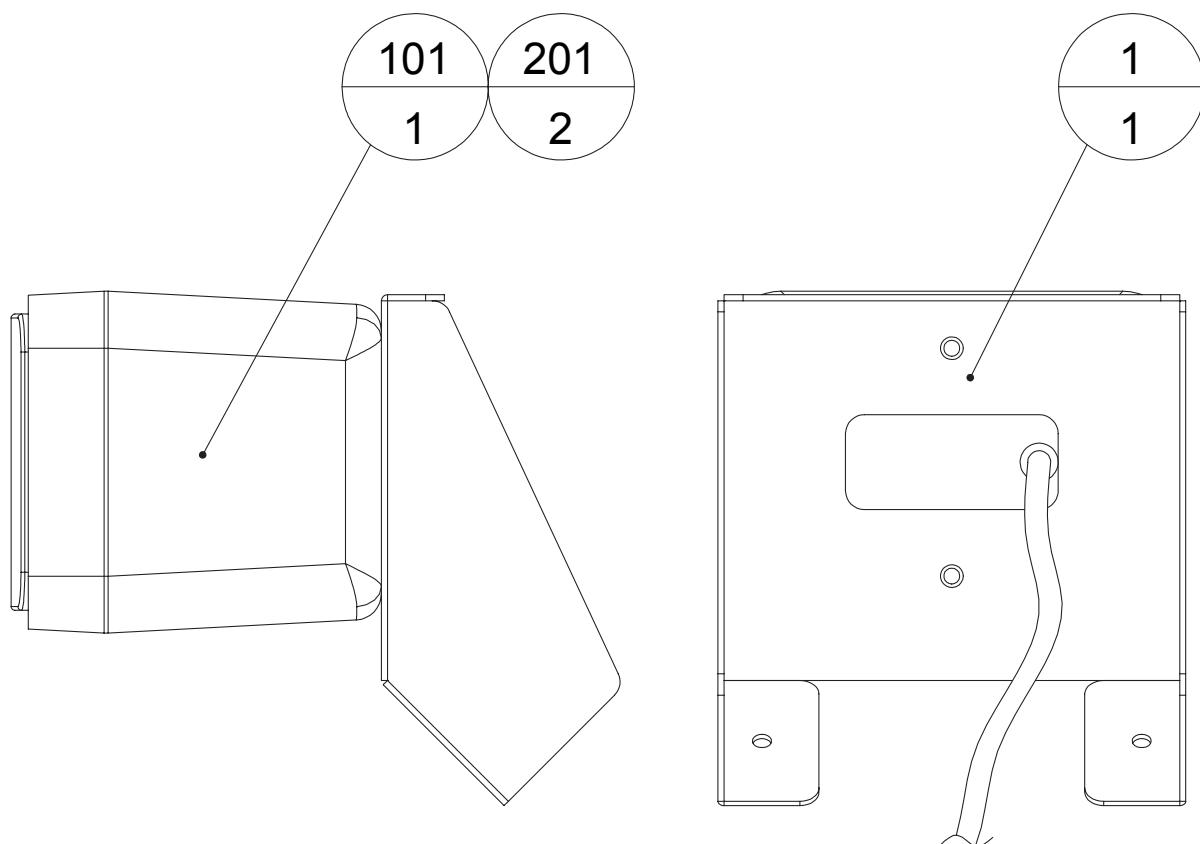
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1241	SIDE BLADE	
2	BRK-1251	BLADE FRONT COVER R	
3	BRK-1243	BLADE LED COVER	
201	FAS-290086	SASH SCR FH BLK M4x8	

**(14) BRK-1260  
ASSY SW PANEL**



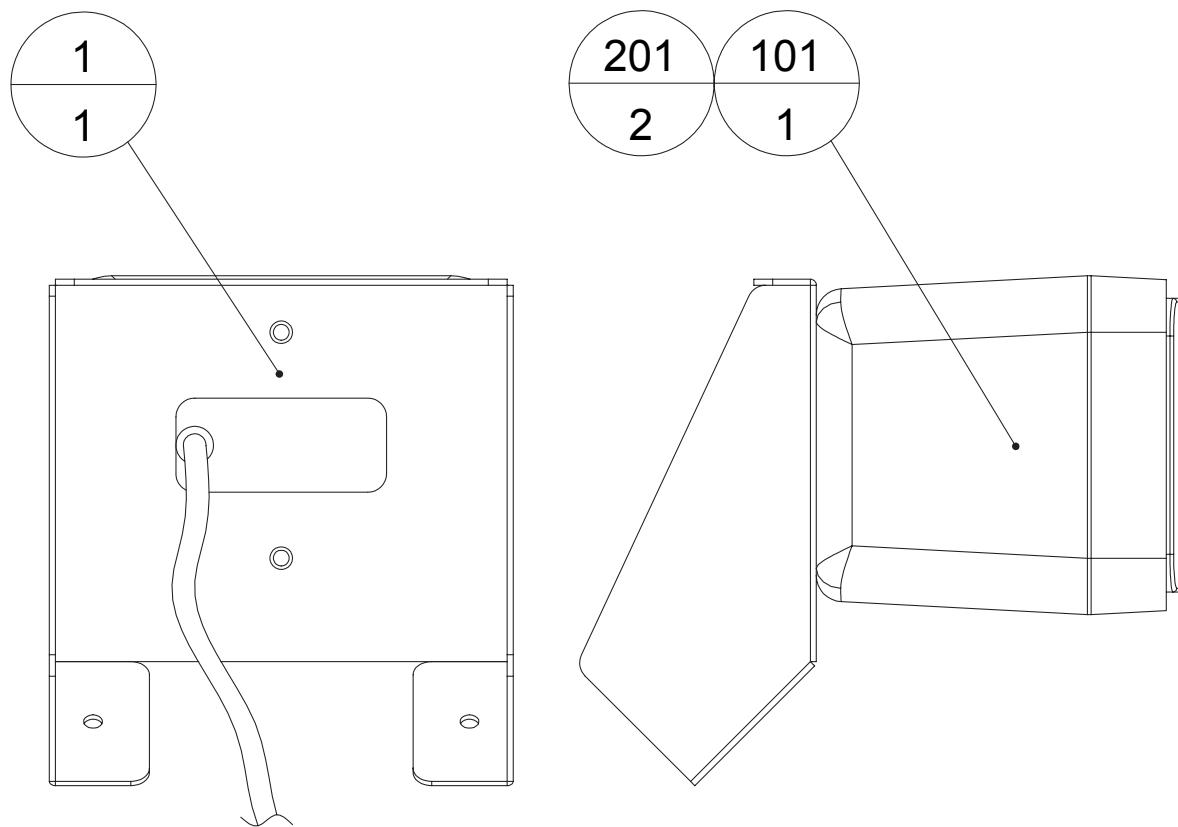
19

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1261	SW PANEL	
2	421-12136	STICKER SW PANEL LCA	
101	838-14548	SW & VOL BD	
102	509-6102-V-B	SW ROCKER J8 V-B AJ8202BF	
201	000-P00308-W	M SCR PH W/FS M3x8	

**(15) BRK-1270  
ASSY SPEAKER L**

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1271	SPEAKER BRKT	
101	130-5282	SPKR BOX 77MM 4OHM 10W	
201	000-P00512-W	M SCR PH W/FS M5x12	

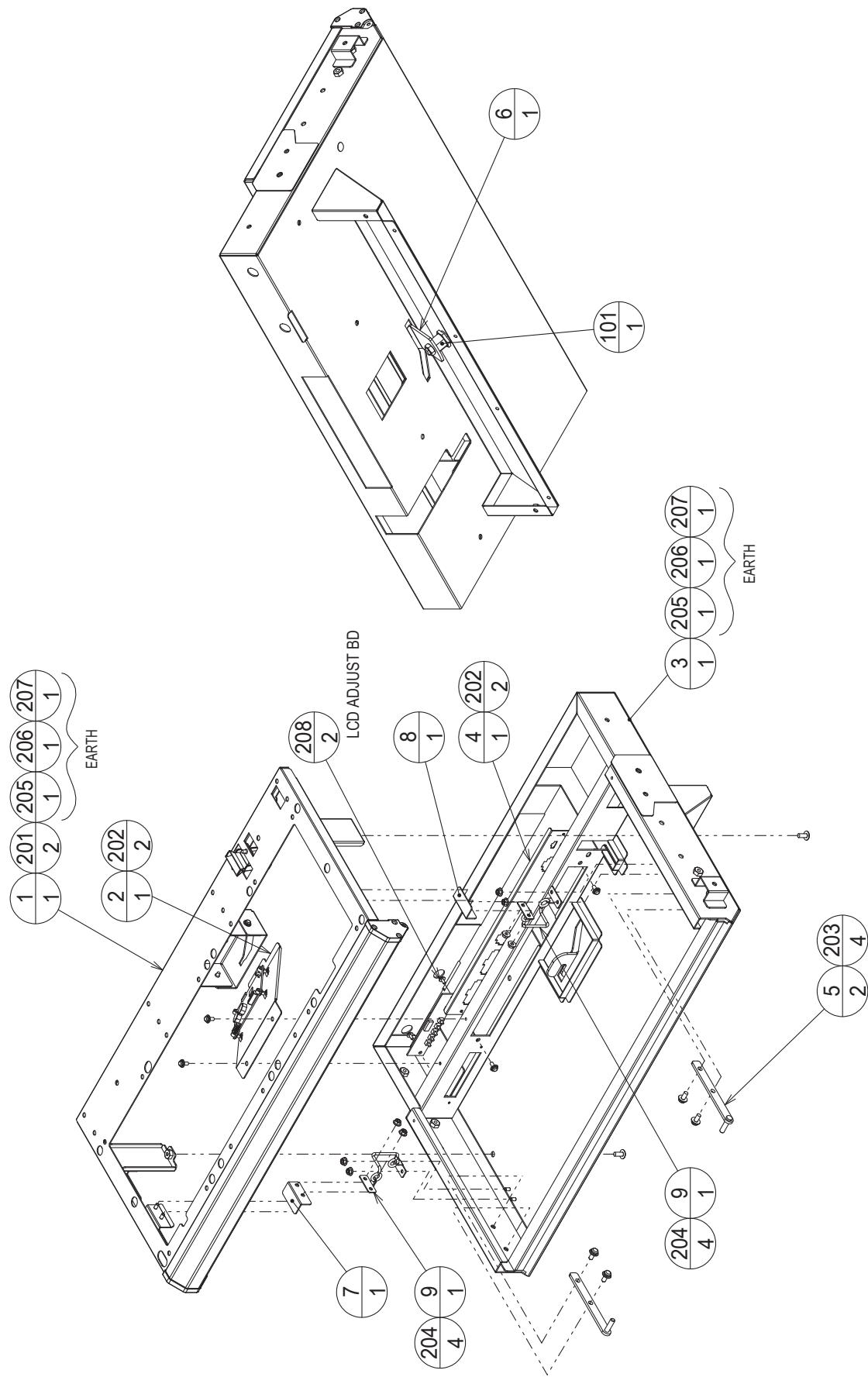
**(16) BRK-1280**  
**ASSY SPEAKER R**



ITEM NO.	PART NO.	DESCRIPTION	NOTE
19	1	BRK-1271	SPEAKER BRKT
	101	130-5282	SPKR BOX 77MM 4OHM 10W
	201	000-P00512-W	M SCR PH W/FS M5x12

(17) BRK-1300-01  
ASSY CONTROL BOX PDA3

(D-1/2)

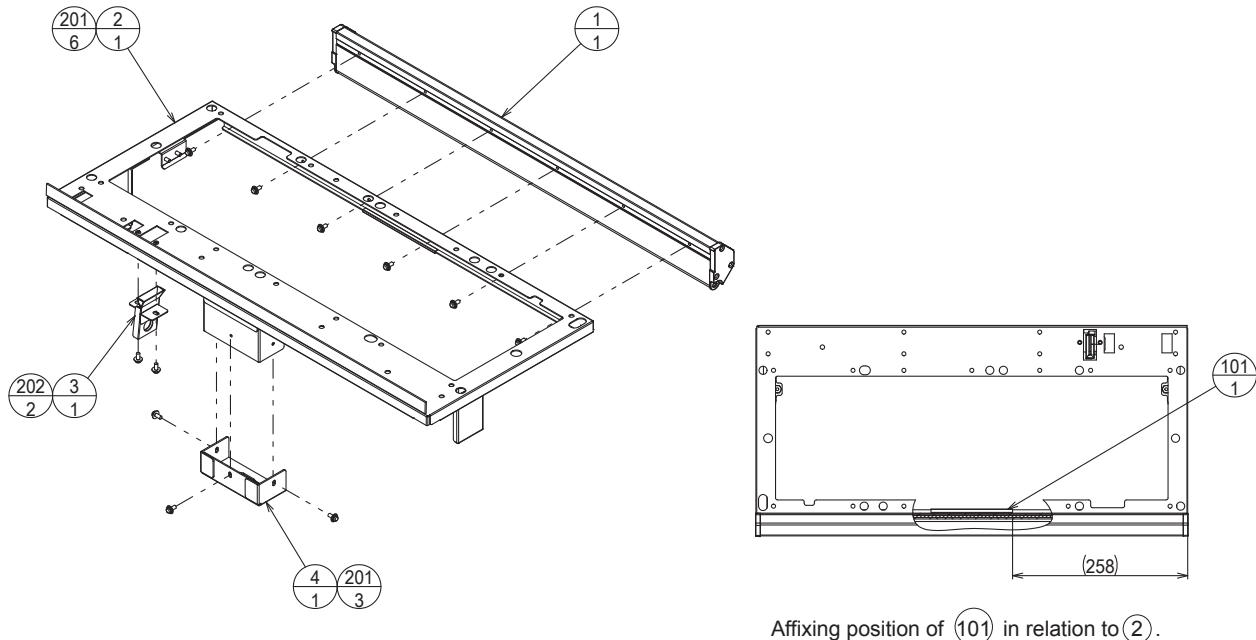


**(17) BRK-1300-01**  
**ASSY CONTROL BOX PDA3**

(D-2/2)

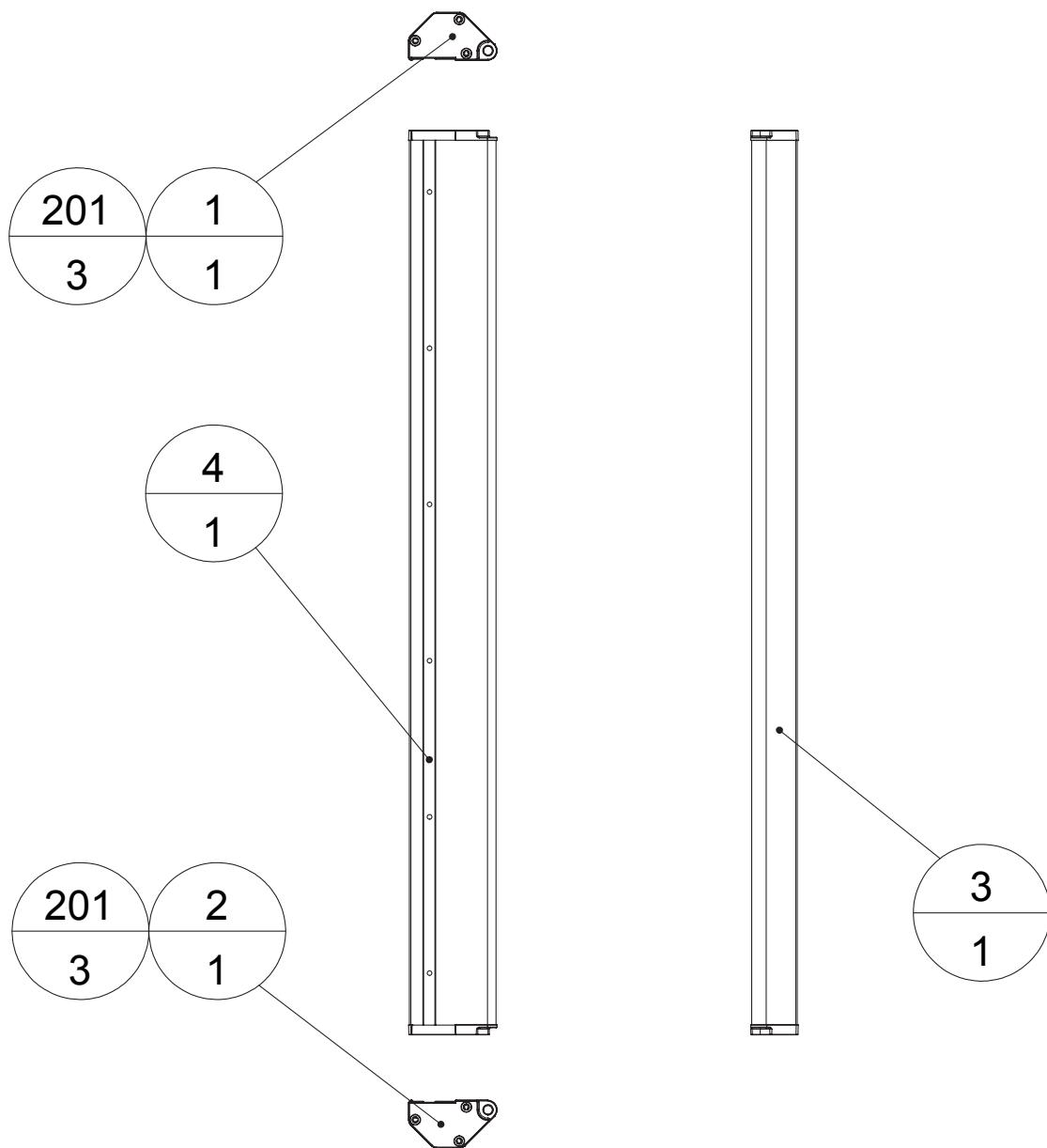
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1320-01	ASSY CONTROL BOX UPPER PDA3	
2	BRK-1350	ASSY TOUCH PANEL BD	
3	BRK-1301	CTRL BOX LOWER	
4	BRK-1302	CONNECT PLATE	
5	BRK-1303	HINGE PLATE	
6	BRK-1304	CTRL BOX TNG	
7	BRK-1305X	CTRL BOX UPR SPRT BRKT	
8	BRK-1306	CTRL BOX UPR SPRT BRKT R	
9	CFB-1530X	CHAIN	
101	220-5793-1-A001	CLY LOCK MASTER W/O KEY A001	
102	280-6676	CORD CLAMP TL-25A TKK	

**(18) BRK-1320-01**  
**ASSY CONTROL BOX UPPER PDA3**



ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1340	ASSY FRONT PILLAR	
2	BRK-1321X	CTRL BOX UPPER	
3	BRK-1322-01	COIN CHUTE UPPER	<USA>
	BRK-1322-02	COIN CHUTE UPPER EXP	
4	BRK-1323	CTRL BOX TNG GUIDE	
101	601-6231-B120	EDGING NEW TYPE	
201	000-P00410-W	M SCR PH W/FS M4x10	
202	000-P00408-W	M SCR PH W/FS M4x8	

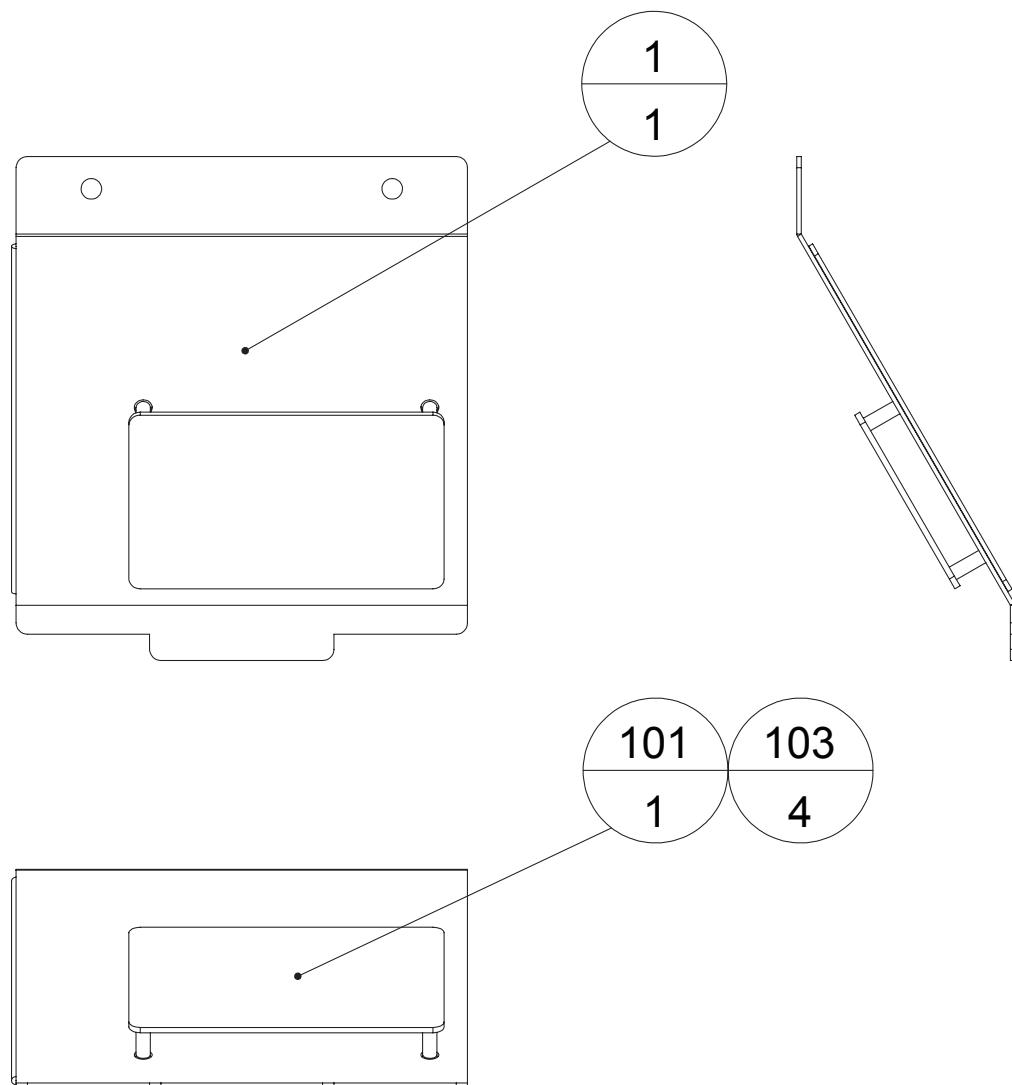
**(19) BRK-1340**  
**ASSY FRONT PILLAR**



19

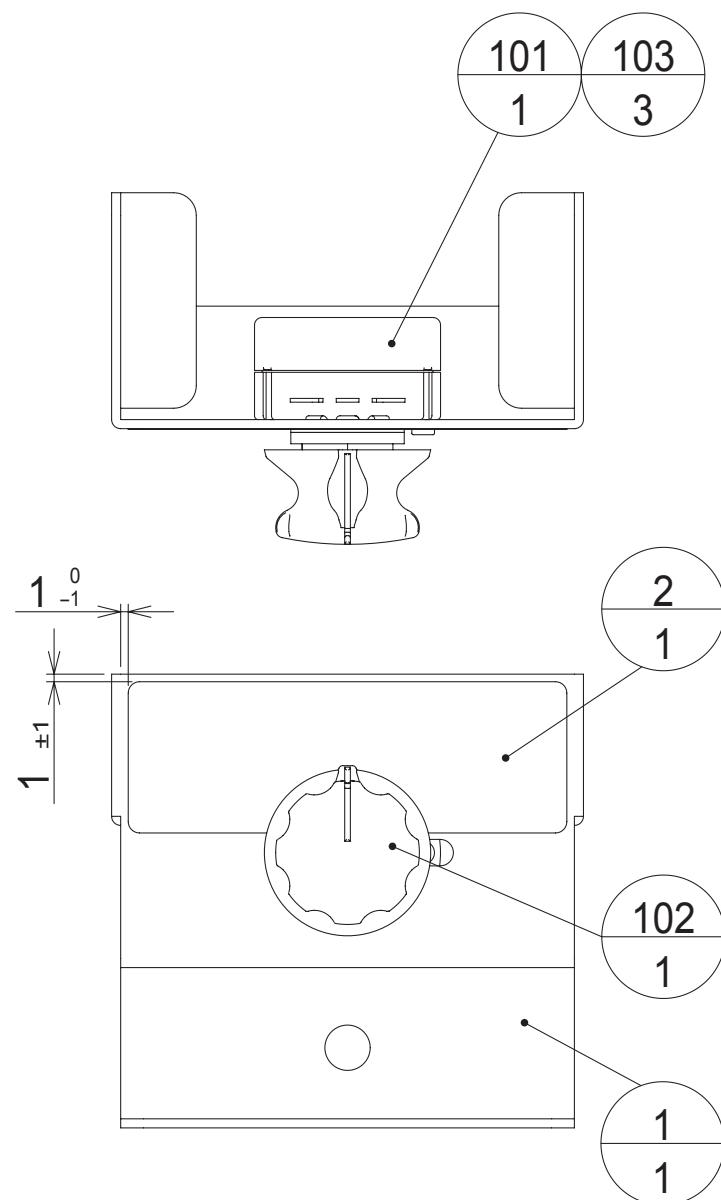
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1341	PILLAR COVER L	
2	BRK-1342	PILLAR COVER R	
3	BRK-1343	FRONT PILLAR	
4	BRK-1344	NUT PLATE	
201	010-F00312	S-TITE SCR FH M3x12	

**(20) BRK-1350**  
**ASSY TOUCH PANEL BD**

**19**

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1351	TOUCH PANEL BD BASE	
101	838-14772	TOUCH PANEL CTRL BD	
102	280-5275-SR10	CORD CLAMP SR10	
103	280-7878-03	LOCKING SPACER WCBT-3S	
301	BRK-60008	WH TOUCH PANEL CTRL BD IN	

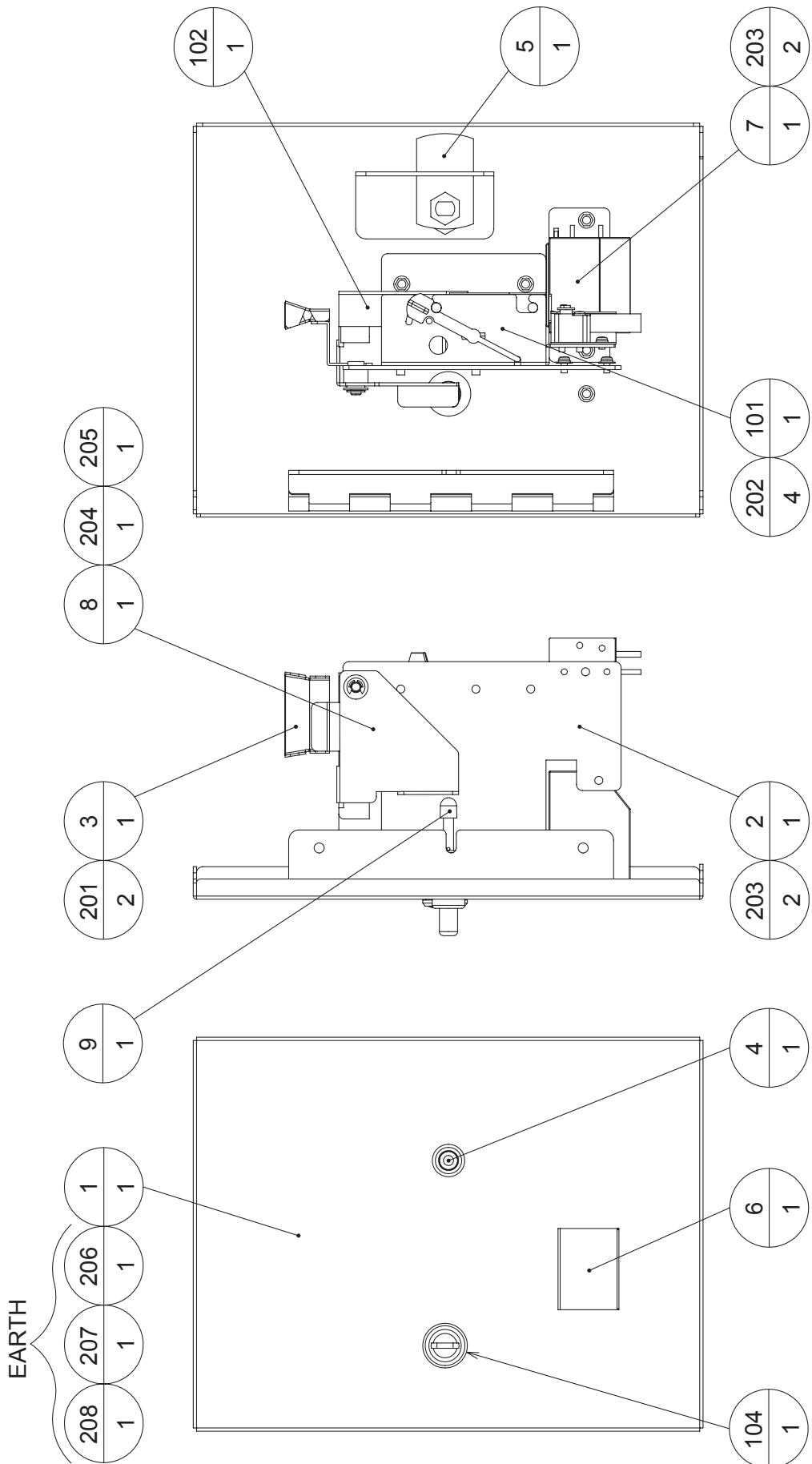
**(21) BRK-1290**  
**ASSY UPPER VOLUME**



19

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1291	VOLUME BRKT	
2	BRK-1292	STICKER VOLUME UPPER SPKR	
101	220-5754	VOL CONT B5KOHM (RV24YN 15S)	
102	601-0042	KNOB 22 MM	
103	310-5029-F20	SUMITUBE F F 20MM	
104	280-5275-SR10	CORD CLAMP SR10	
301	BRK-60205	WH SOUND VOLUME	

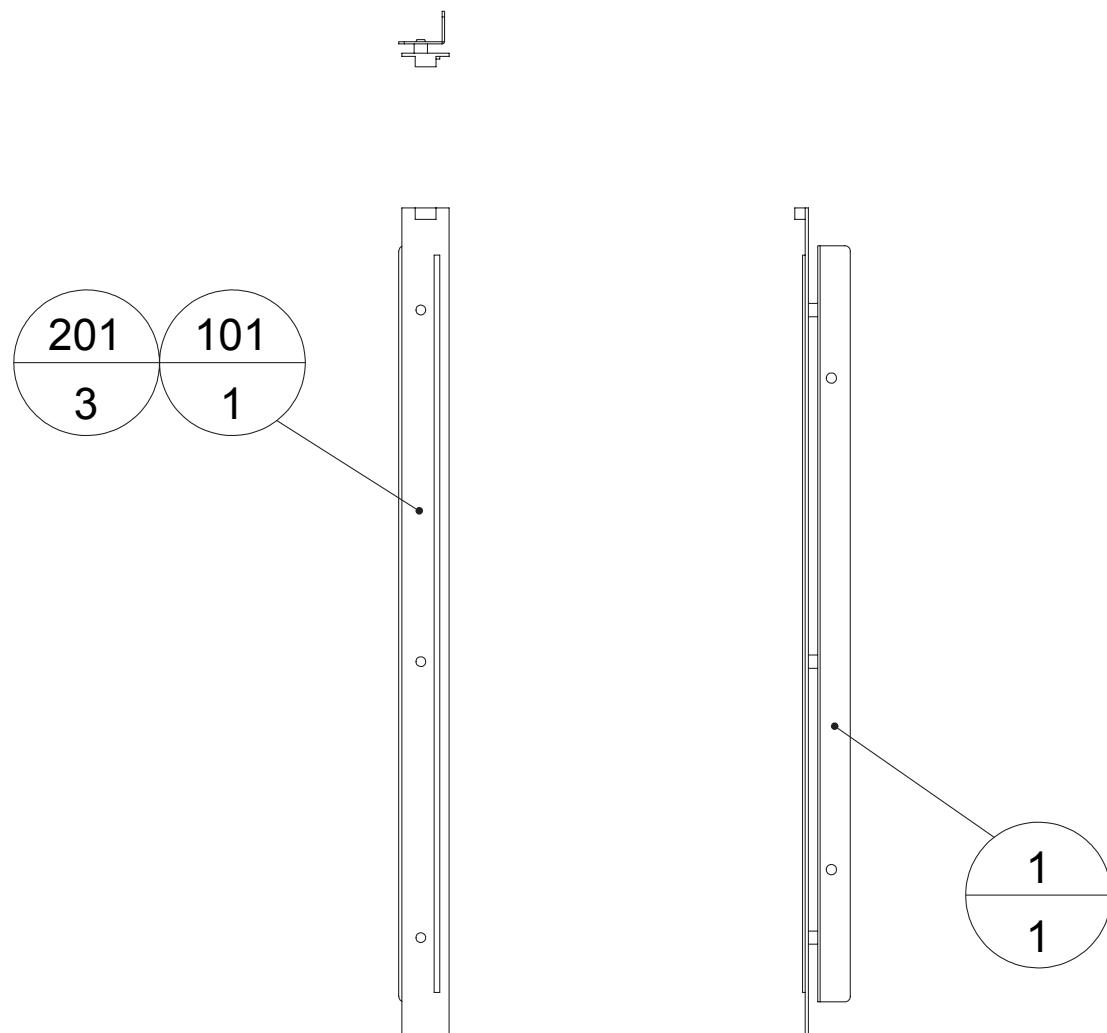
**(22) BRK-1400**  
**ASSY SELECTOR DOOR**

**(D-1/2)**

**(22) BRK-1400**  
**ASSY SELECTOR DOOR**

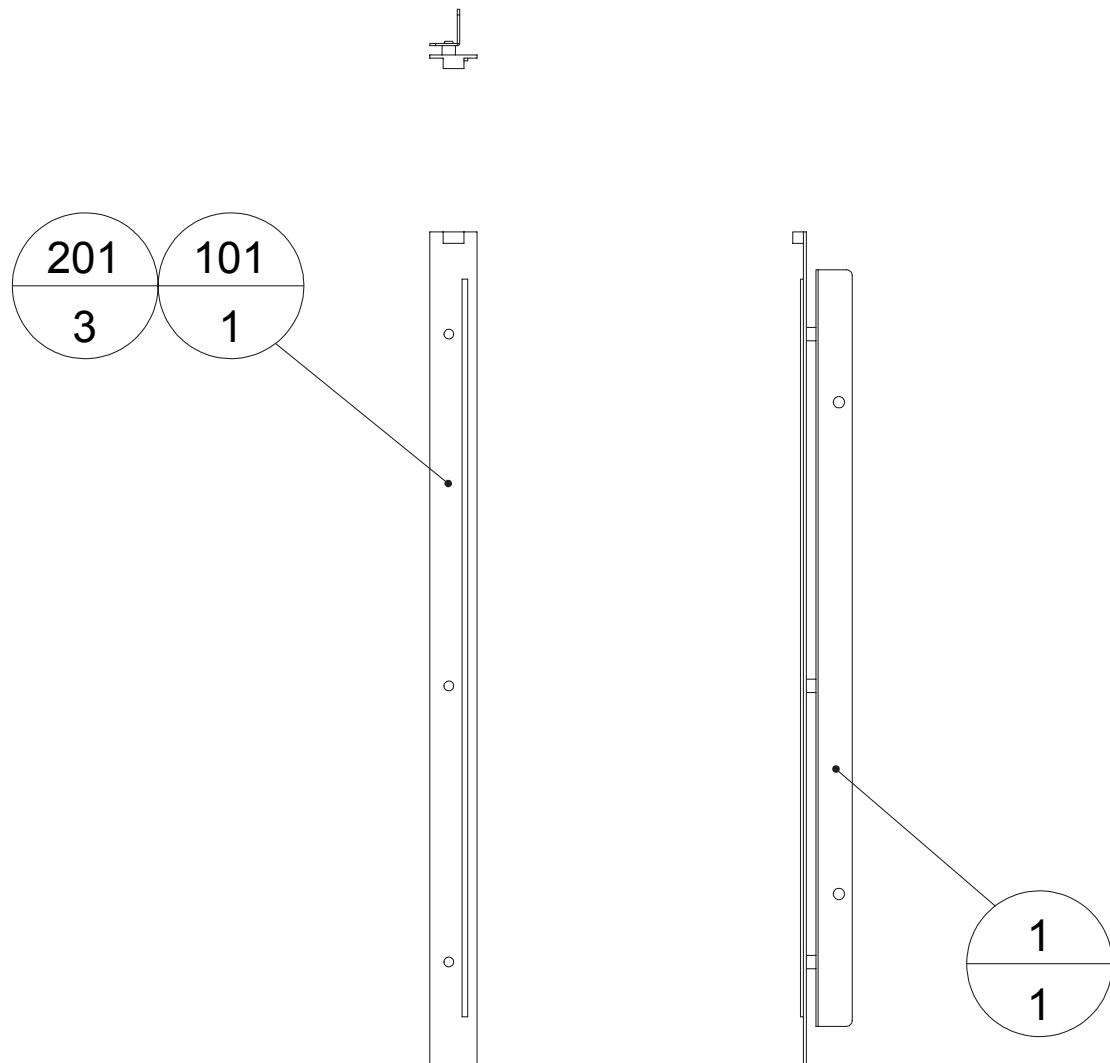
(D-2/2)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1401	COIN DOOR	
2	DOT-1562	COIN BRKT	
3	BRK-1403	SELECTOR CHUTE	
4	250-5216	ASSY REJECT BUTTON LONG TYPE	
5	DP-1167	TNG LKG	
6	HOT-1272	FLAP	
7	URD-1063	REJECT CUP	
8	BRK-1402	REJECT BRKT	
	BRK-1402-01	REJECT BRKT EXP	<Hong Kong>
9	SEC-1064	BUTTON CAP	
101	220-5777-01-11	C.C BRKT 100YEN W/COIL 12V L	<USA>
	220-5777-04-11	C.C BRKT NT\$10 W/COIL 12V L	<Taiwan>
	220-5777-16-11	C.C BRKT HK\$5 W/COIL 12V L	<Hong Kong>
	220-5777-08-11	C.C BRKT S\$1 W/COIL 12V L	<Singapore>
102	220-0136	CC REJR (100 8AD-81P2)	<USA>
	220-5208-79	COIN CHUTE REJ TAIWAN 10YEN	<Taiwan>
	220-5208-104	COIN CHUTE REJE HONG KING \$5	<Hong Kong>
	220-5208-96	COIN CHUTE REJE SINGAPORE \$1	<Singapore>
103	280-5275-SR10	CORD CLAMP SR10	
104	220-5793-1-A001	CLY LOCK MASTER W/O KEY A001	
105	310-5029-F20	SUMITUBE F F 20MM	
106	601-0460	PLASTIC TIE BELT 100 M/M	
201	000-P00306-W	M SCR PH W/FS M3x6	
202	000-P00408-W	M SCR PH W/FS M4x8	
203	050-F00400	FLG NUT M4	
204	060-F00500	FLT WSHR M5	
205	065-E00400	E RING 4MM	
206	050-H00400	HEX NUT M4	
207	060-F00400	FLT WSHR M4	
208	060-S00400	SPR WSHR M4	
301	BRK-60020	WH SELECTOR	
302	600-6972-0200	WIRE HARN EARTH ID5 0200MM	
/	068-441210	FLT WSHR 4.4-12x1.0	<Hong Kong>

**(23) BRK-1410  
ASSY SIDE LED BD L**

19

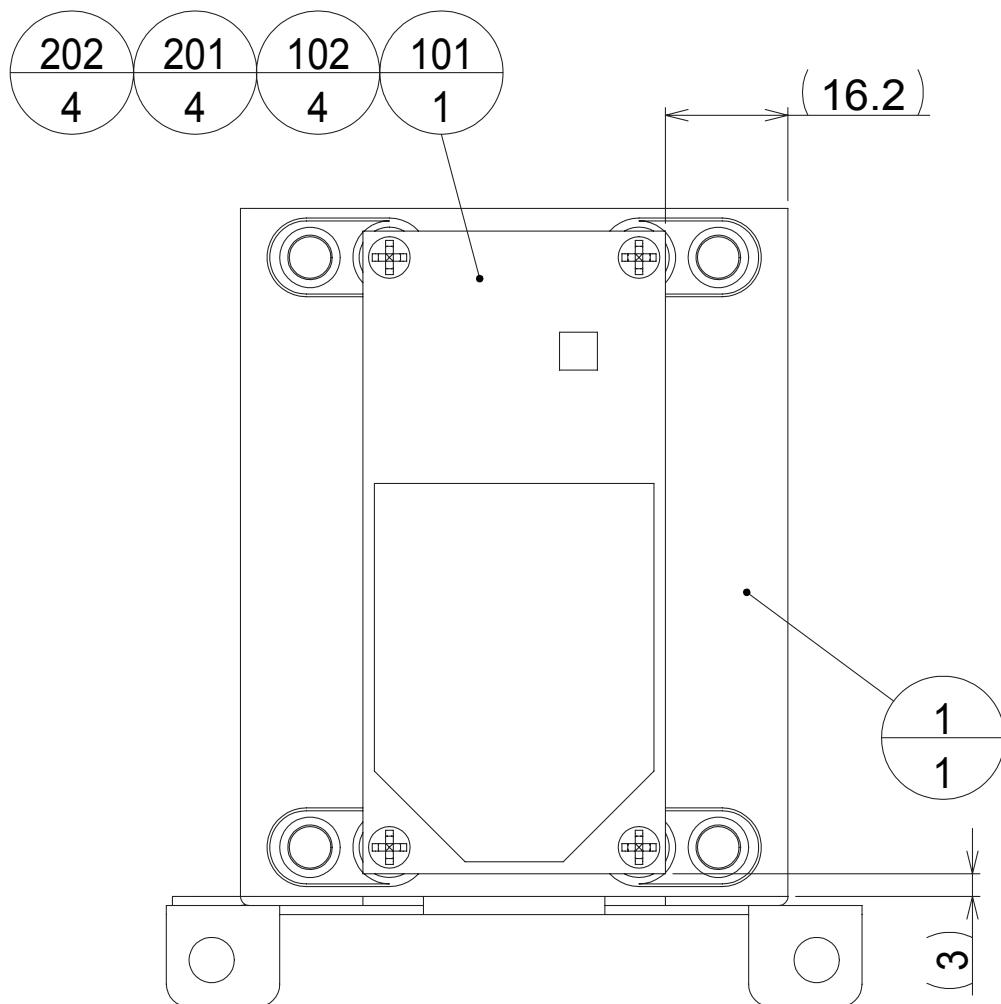
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1411	SIDE LED BASE L	
101	390-6975	LED BAR BD RGB BRK	
201	000-P00314-W	M SCR PH W/FS M3x14	

**(24) BRK-1420  
ASSY SIDE LED BD R**

19

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1421	SIDE LED BASE R	
101	390-6975	LED BAR BD RGB BRK	
201	000-P00314-W	M SCR PH W/FS M3x14	

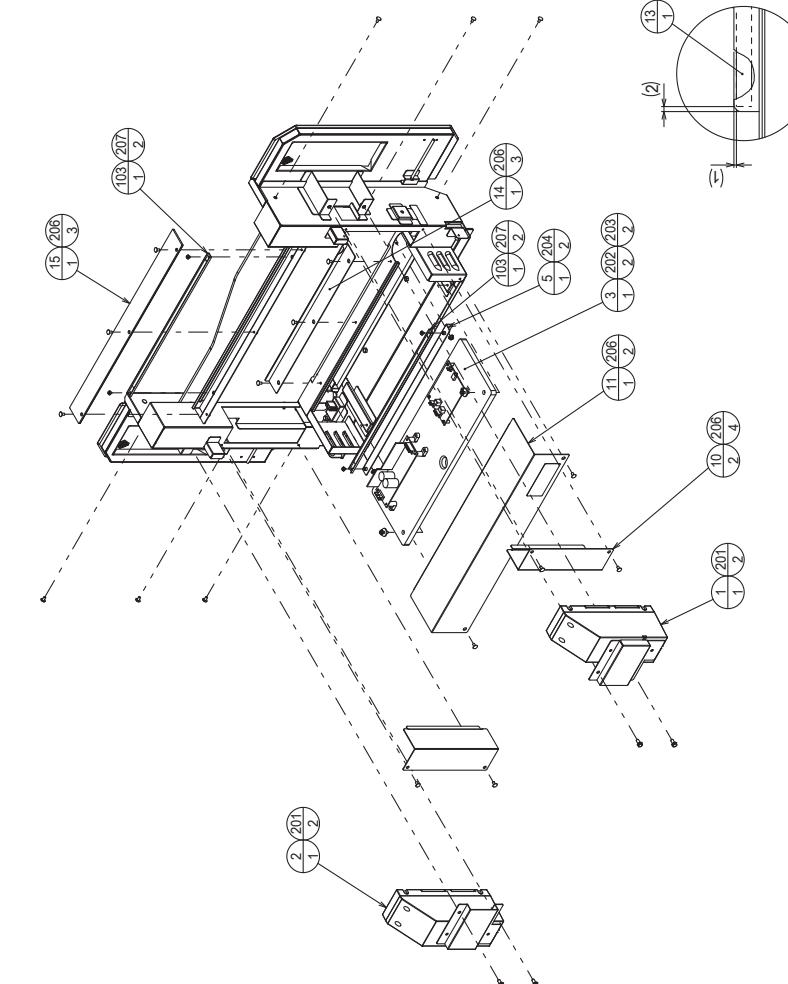
**(25) BRK-1440**  
**NFC RW UNIT**



ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1441	NFC RW BRKT	
101	838-14971	NFC RW BD TN32MSEC003S	
102	280-6681	L-LOCK LT-320PCG	
103	280-5275-SR10	CORD CLAMP SR10	
201	000-P00312-W	M SCR PH W/FS M3x12	
202	000-P00306	M SCR PH M3x6	
301	BRK-60209	WH SERIAL NFC RW	

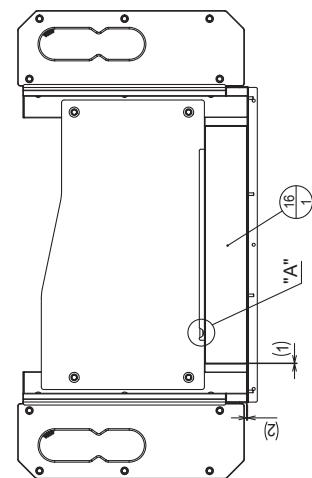
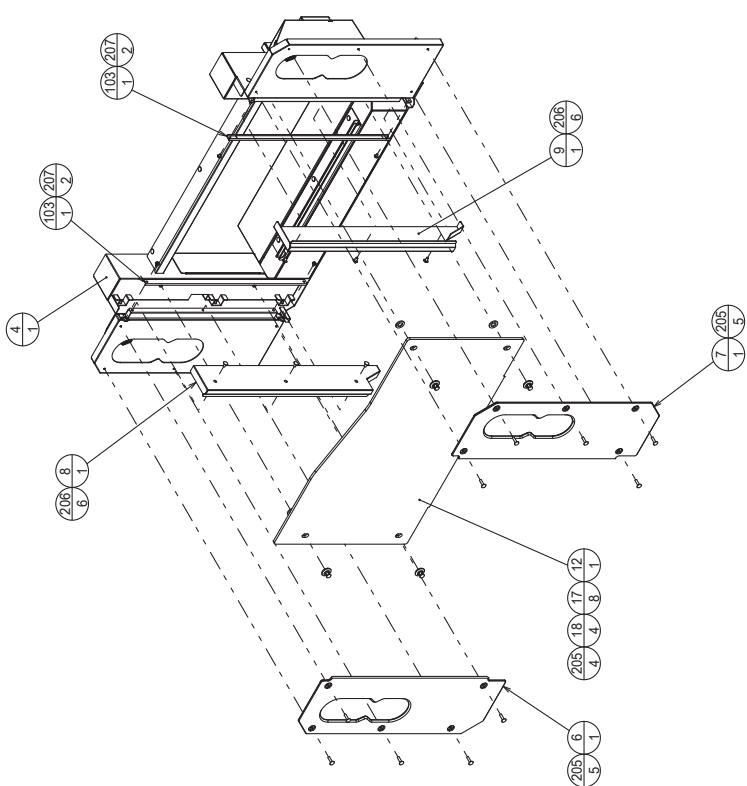
**(26) BRK-1540-01**  
**ASSY BILLBOARD PDA3**

(D-1/2)

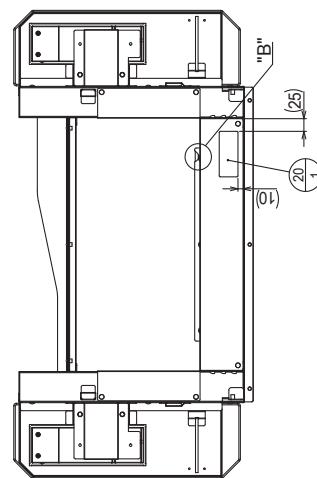
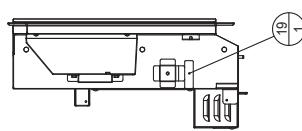


Detail view of section A  
 Affixing position of ⑬ in relation to ④.

Detail view of section B  
 Affixing position of ⑬ in relation to ⑭.



Affixing position of ⑯⑰⑲⑳ in relation to ④.

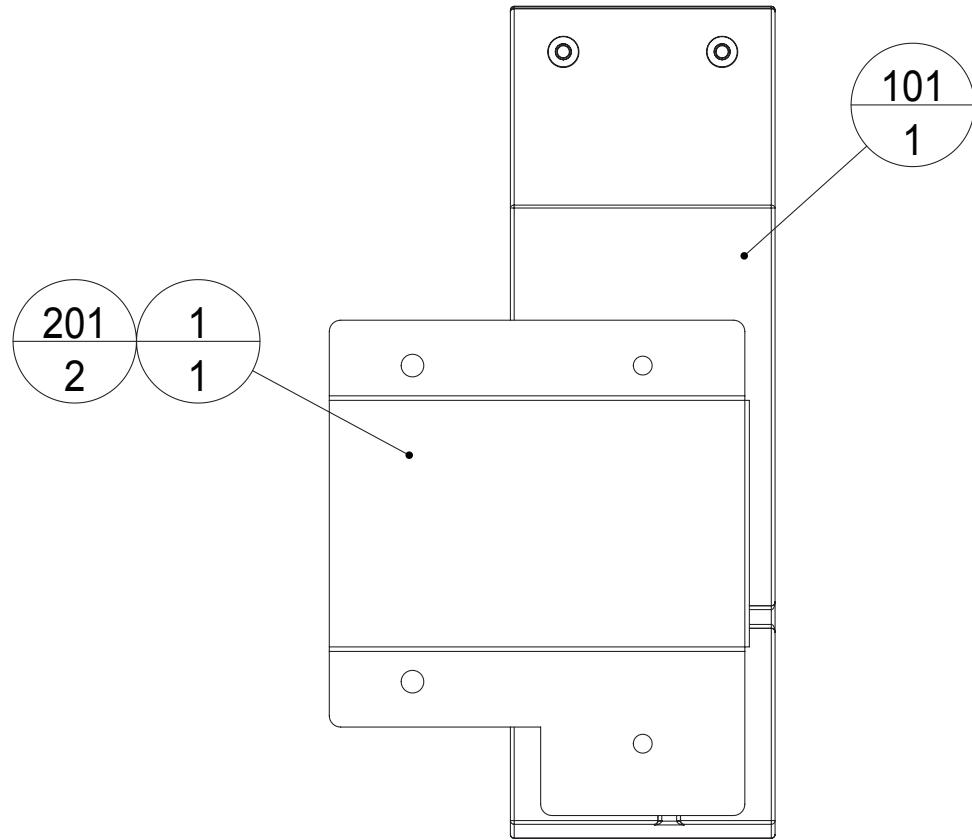


**(26) BRK-1540-01**  
**ASSY BILLBOARD PDA3**

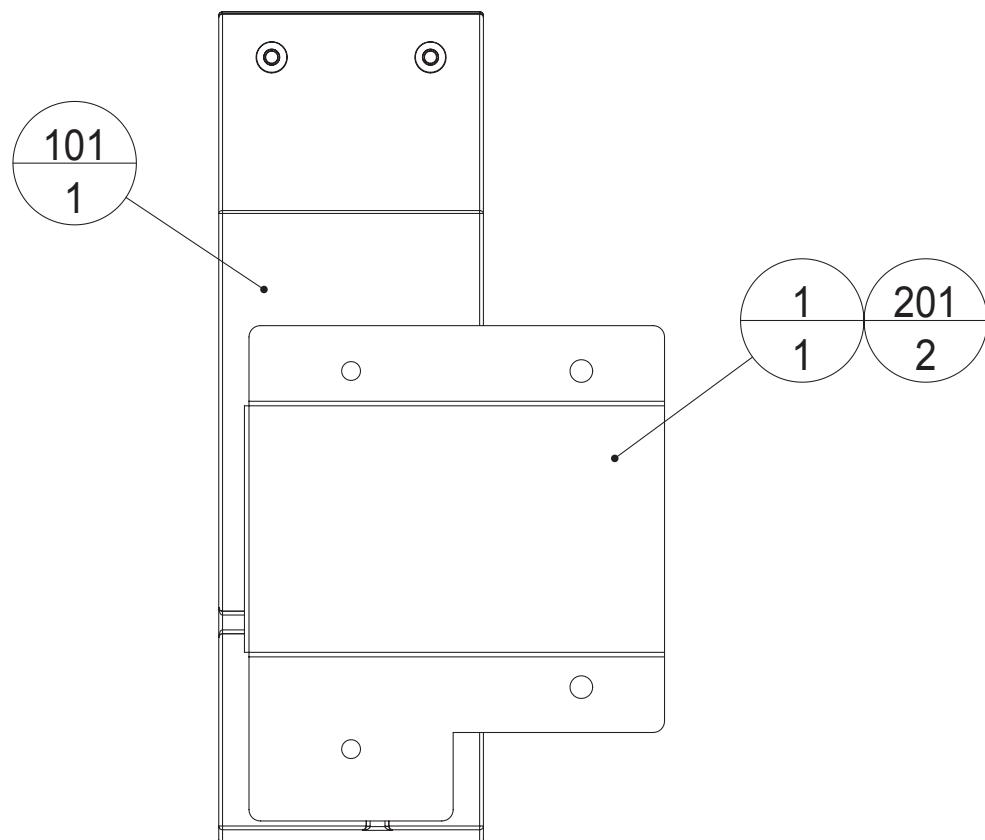
(D-2/2)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1560	ASSY SPKR UPR L	
2	BRK-1570	ASSY SPKR UPR R	
3	BRK-4300	ASSY AMP BD	
4	BRK-1541	BILLBOARD BASE	
5	BRK-1542	BILLBOARD LED BRKT	
6	BRK-1543-02	SPEAKER PLATE L PDA3	
7	BRK-1544-02	SPEAKER PLATE R PDA3	
8	BRK-1545	SPEAKER LED LID L	
9	BRK-1546	SPEAKER LED LID R	
10	BRK-1547	BILLBOARD PILLAR LID	
11	BRK-1548	BILLBOARD BACK LID	
12	BRK-1549-03	BILLBOARD PLATE PDA3	
13	BRK-1550	BILLBOARD PLATE CUSHION	
14	BRK-1551	BILLBOARD PLATE HOLDER	
15	BRK-1552	BILLBOARD BEAM PLATE	
16	BRK-1553	STICKER LOWER BILLBOARD	
17	SGS-1703	WASHER RUBBER	
18	250-5716-0402	SPCL WSHR 4.5-10x2.5 SUS	
20	440-WS0165XEG	STICKER W BD POWER OFF S ENG	
101	280-5275-SR10	CORD CLAMP SR10	
102	280-7892	CORD CLAMP TL-19AN	
103	390-7004	LED BD 24V WHITE	
201	030-000512-WB	HEX BLT W/FS BLK M5x12	
202	000-P00418-W	M SCR PH W/FS M4x18	
203	068-441616	FLT WSHR 4.4-16x1.6	
204	050-F00400	FLG NUT M4	
205	008-T00408-0C	TMP PRF SCR TH CRM M4x8	
206	000-T00408-0B	M SCR TH BLK M4x8	
207	000-P00306-W	M SCR PH W/FS M3x6	
301	BRK-60210	WH BILLBOARD AC IN	
302	BRK-60211	WH BILLBOARD SOUND IN	
303	BRK-60212	WH BILLBOARD SOUND VOLUME IN	
304	BRK-60215	WH L SPEAKER EXT	
305	BRK-60216	WH R SPEAKER EXT	
306	BRK-60217	WH L SPEAKER LED EXT	
307	BRK-60218	WH UPPER & RIGHT LED EXT	

**(27) BRK-1560**  
**ASSY SPKR UPR L**

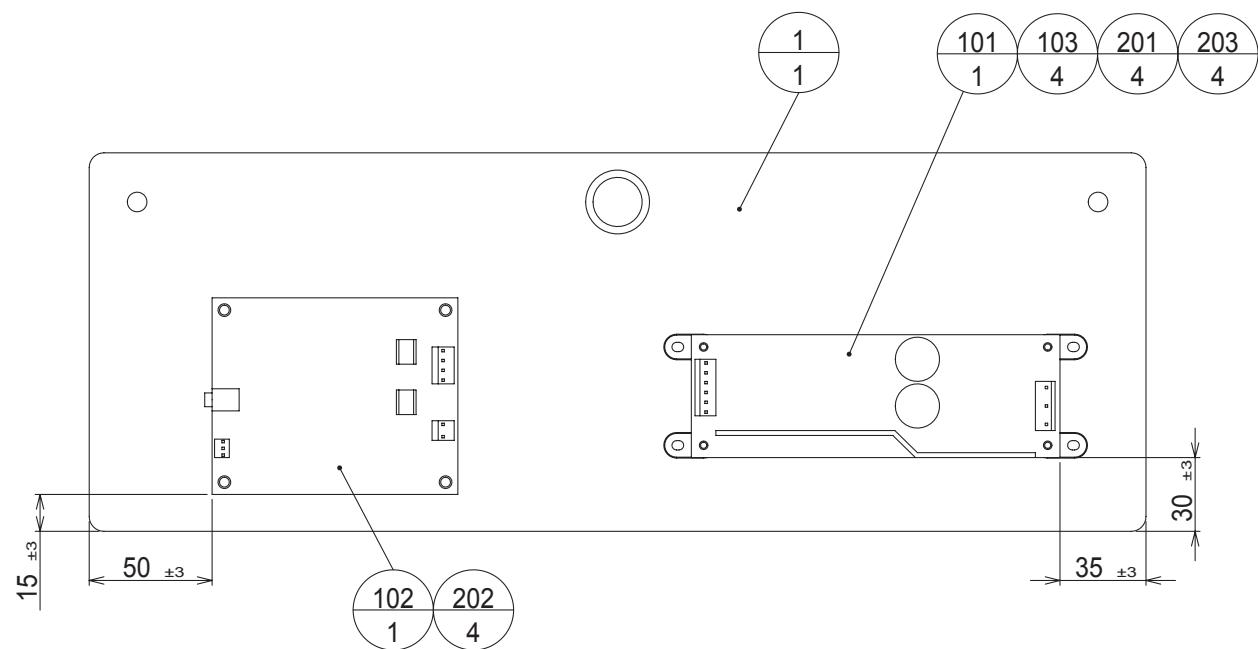


ITEM NO.	PART NO.	DESCRIPTION	NOTE
19	1	BRK-1561	BILLBOARD SPKR BRKT L
	101	130-5260	SPKR BOX 6OHM 15/40W W/SHLD
	102	280-5275-SR10	CORD CLAMP SR10
	201	000-P00408-0B	M SCR PH BLK M4x8

**(28) BRK-1570  
ASSY SPKR UPR R**

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1571	BILLBOARD SPKR BRKT R	
101	130-5260	SPKR BOX 6OHM 15/40W W/SHLD	
102	280-5275-SR10	CORD CLAMP SR10	
201	000-P00408-0B	M SCR PH BLK M4x8	

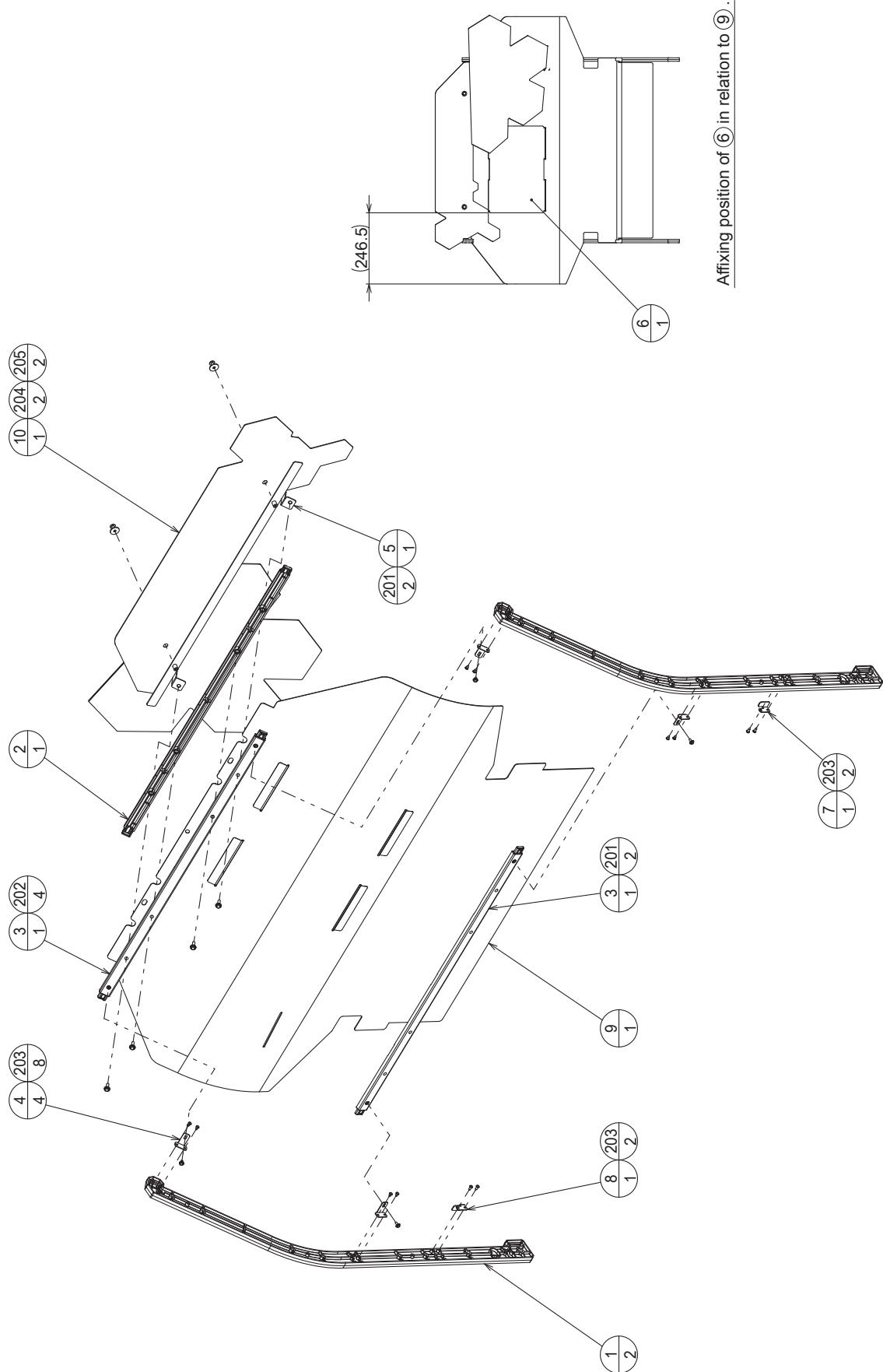
**(29) BRK-4300  
ASSY AMP BD**



ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-4301	WOODEN BASE AMP BD PDA	
101	400-5489-07524	SW REGU VS75E-24	
102	838-14988	2CH 30W AUDIO AMP ST	
103	280-6681	L-LOCK LT-320PCG	
104	280-5277	CORD CLAMP 18	
201	000-P00306-W	M SCR PH W/FS M3x6	
202	011-P00325	TAP SCR PH 3x25	
203	011-T03516	TAP SCR TH 3.5x16	
204	011-F00310	TAP SCR FH 3x10	
301	BRK-60213	WH BILLBOARD DC OUT	
302	BRK-60214	WH SPEAKER OUT	

**(30) BRK-1650**  
**ASSY POP PDA3**

**(D-1/2)**



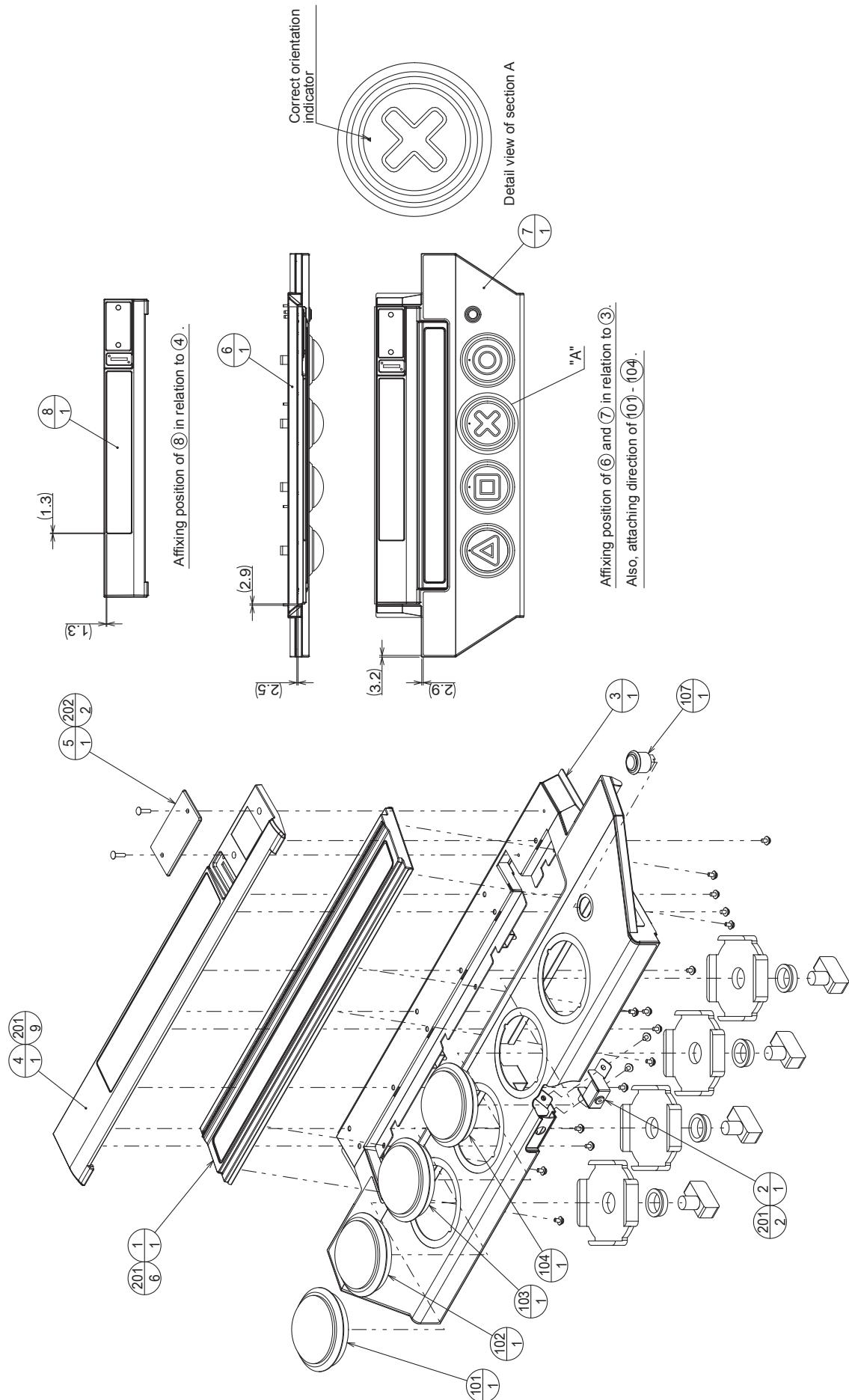
**(30) BRK-1650**  
**ASSY POP PDA3**

(D-2/2)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-1601	SIDE ARM	
2	BRK-1602	TOP BEAM A	
3	BRK-1603	TOP BEAM B	
4	BRK-1605	BEAM HOLDER	
5	BRK-1623	EMBLEM HOLDER PDA	
6	BRK-1625-01	CLIP FILE PDA3	
7	BRK-1626	BACK SHEET HOLDER L	
8	BRK-1627	BACK SHEET HOLDER R	
9	BRK-1651	BACK SHEET PDA3	
10	BRK-1652	EMBLEM PDA3	
201	000-P00416-WB	M SCR PH W/FS BLK M4x16	
202	000-P00306-WB	M SCR PH W/FS BLK M3x6	
203	012-P00308-0B	TAP SCR #2 PH BLK 3x8	
204	000-T00408-0C	M SCR TH CRM M4x8	
205	068-441616-0C	FLT WSHR CRM 4.4-16x1.6	

**(31) BRK-2350**  
**ASSY CONTROL PANEL PDA3**

**(D-1/2)**

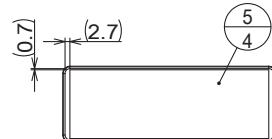
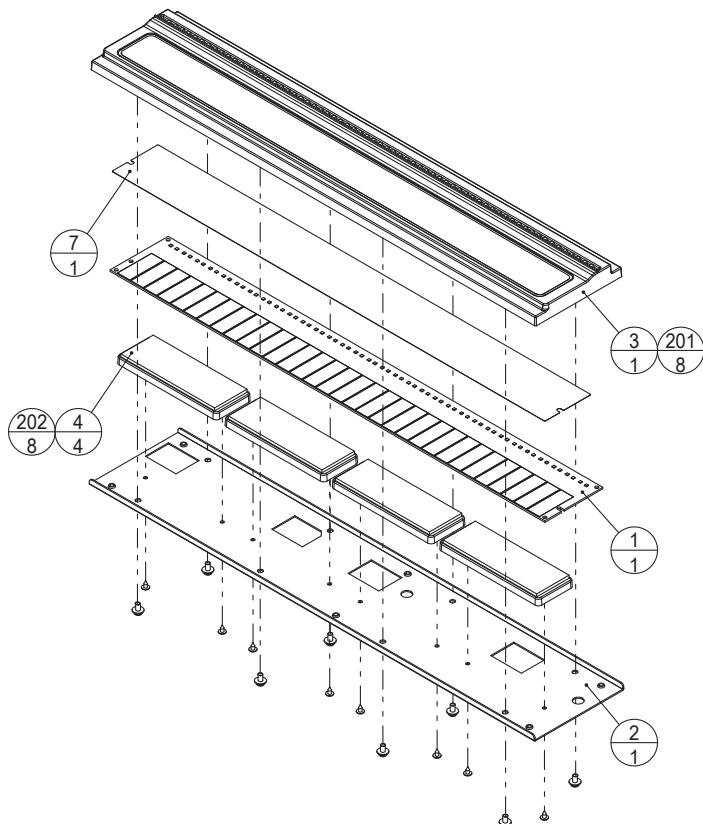


**(31) BRK-2350**  
**ASSY CONTROL PANEL PDA3**

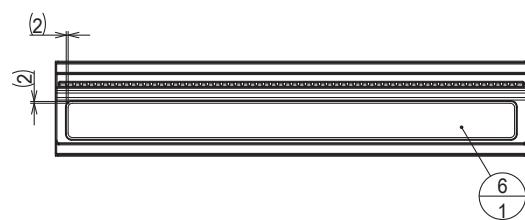
(D-2/2)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-2360	ASSY TOUCH SLIDER PDA3	
2	BRK-2370	ASSY HEADPHONE JACK PDA3	
3	BRK-2351	CTRL PNL BASE PDA3	
4	BRK-2352	ENTRY BASE	
5	BRK-2353	DENOMI PLATE	
6	BRK-2354	CTRL PANEL CUSHION	
7	BRK-2355	STICKER CTRL PNL PDA3	
8	BRK-2356	STICKER ENTRY BASE PDA3	
101	509-6256-01	SW OBSA-100UMQ-XFLEDW12V TRNGL	
102	509-6256-02	SW OBSA-100UMQ-XFLEDW12V SQ	
103	509-6256-03	SW OBSA-100UMQ-XFLEDW12V CROSS	
104	509-6256-04	SW OBSA-100UMQ-XFLEDW12V CIRCL	
105	280-5275-SR10	CORD CLAMP SR10	
106	280-7892	CORD CLAMP TL-19AN	
107	509-5756-01	SW PB D24 YELLOW	
201	000-P00408-W	M SCR PH W/FS M4x8	
202	008-T00416-0C	TMP PRF SCR TH CRM M4x16	
301	BRK-60301	WH CTRL PNL SW AND SLIDER PDA3	

**(32) BRK-2360**  
**ASSY TOUCH SLIDER PDA3**



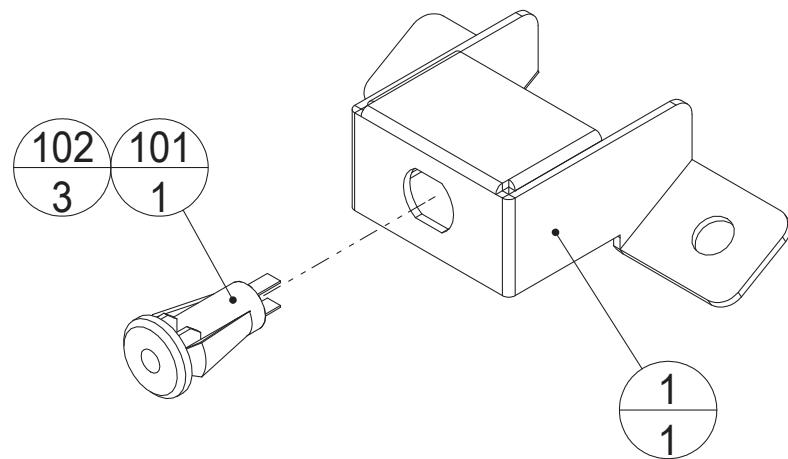
Affixing position of (5) in relation to (4) ( $S=1/2$ ).



Affixing position of (6) in relation to (3) ( $S=1/4$ ).

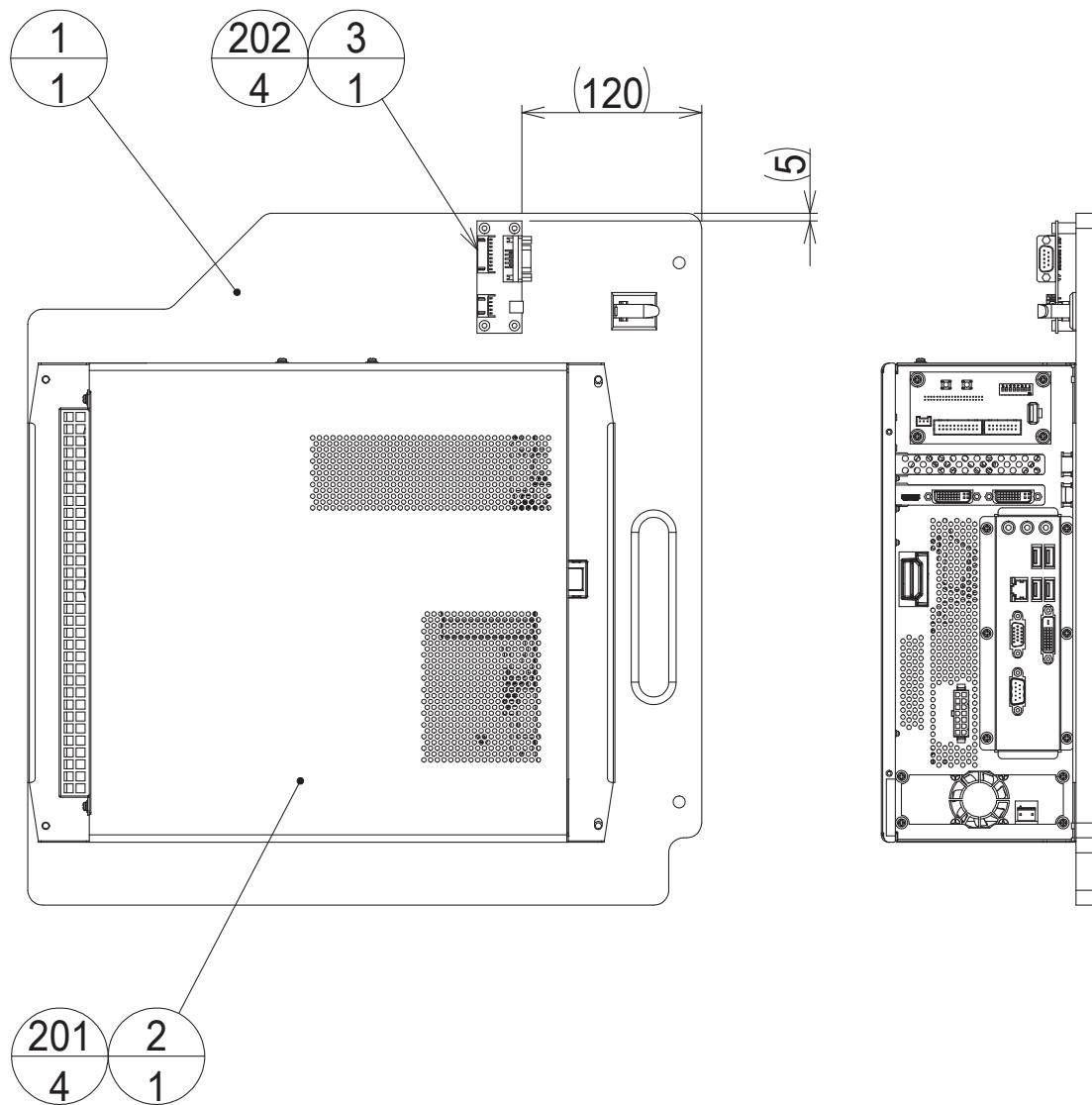
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	837-15275	TOUCH SLIDER SENSOR BD	
2	BRK-2361X	SLIDER BASE	
3	BRK-2362	SLIDER COVER	
4	BRK-2363	SLIDER BD SUPPORT	
5	BRK-2364	SLIDER BD CUSHION	
6	BRK-2365Y	SLIDER FILM	
7	BRK-2366	SLIDER SHEET	
201	000-P00408-W	M SCR PH W/FS M4x8	
202	FAS-120017	TAP SCR #2 TH 3x6	

**(33) BRK-2370  
ASSY HEADPHONE JACK PDA3**



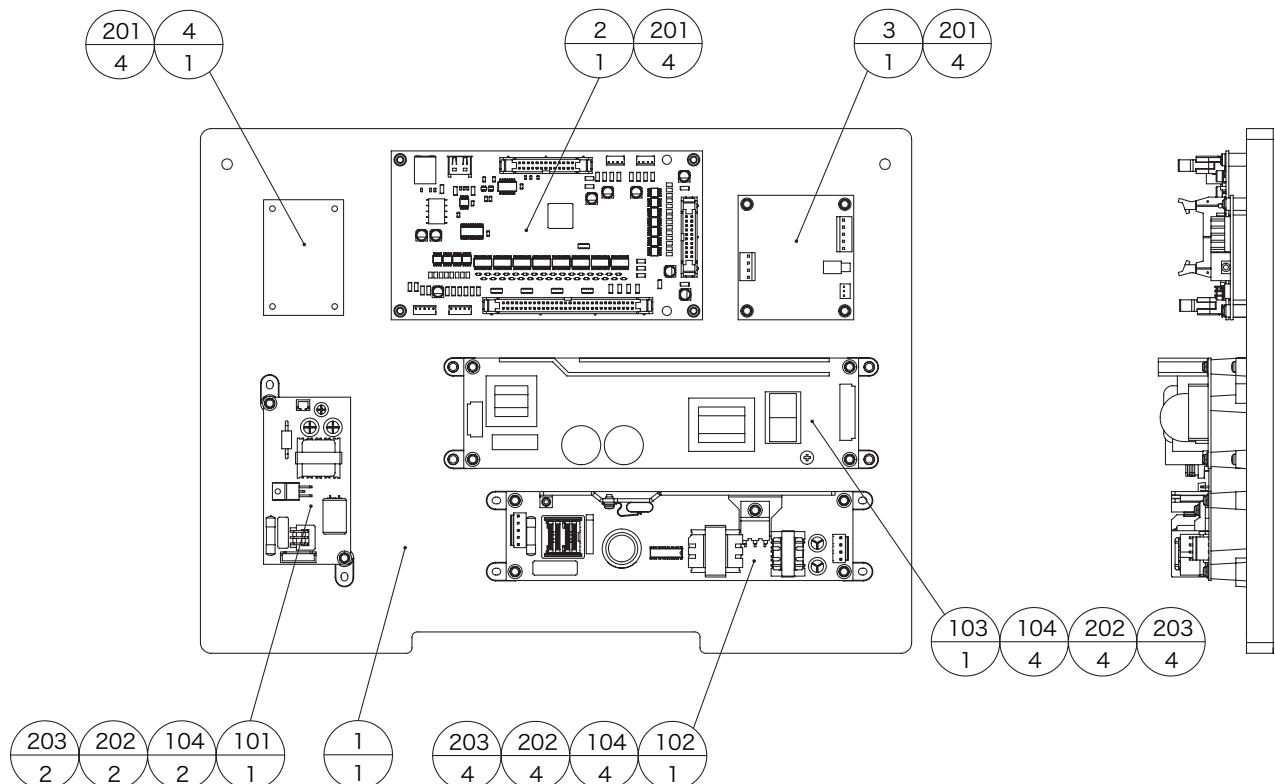
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-2371X	HEADPHONE JACK BRKT PDA3	
101	210-5193	MINI JACK MJ-064SP MARUSHIN	
102	310-5029-B20	SUMITUBE F B 20MM	
301	BRK-60302	WH CTRL PNL HEADPHONE PDA3	

**(34) BRK-4000-01**  
**ASSY MAIN BD NU**



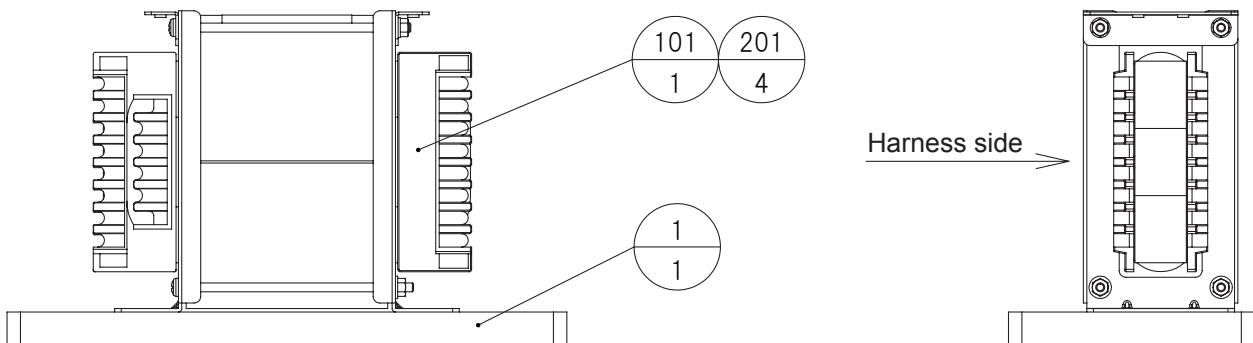
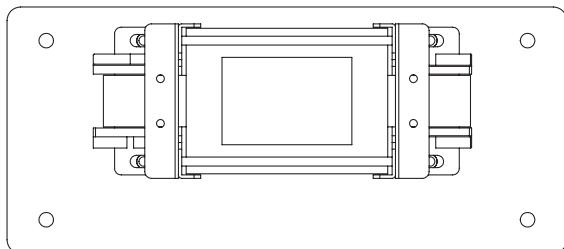
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-4001	WOODEN BASE RINGEDGE	
2	848-0001D-02	ASSY CASE NU W HDD EXP	
3	837-15287	CN CONVERT BD	
101	280-5288	HARNESS LUG CC-1003	
102	280-6676	CORD CLAMP TL-25A TKK	
201	000-P00416-W	M SCR PH W/FS M4x16	
202	011-P00325	TAP SCR PH 3x25	
203	011-F00312	TAP SCR #1 FH 3x12	
301	BRK-60006	WH ASSY MAIN AC IN	
302	BRK-60303	WH NU CN CONVERT	

**(35) BRK-4100  
ASSY ELEC BD**



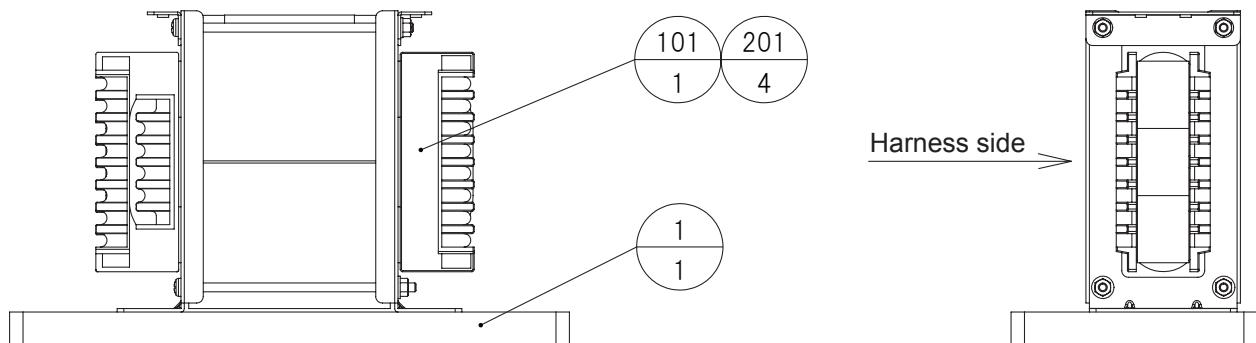
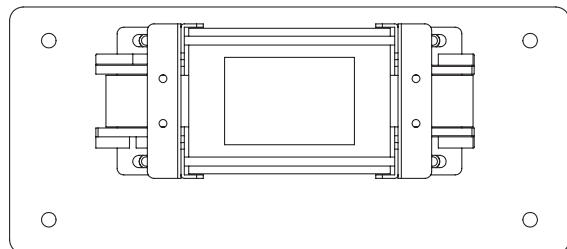
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-4101	WOODEN BASE ELEC	
2	837-14572	I/O CONTROL BD 3 FOR JVS COM	
3	839-1383	CLASS D 10W STEREO AMP MAXIM	
4	839-1363	HEADPHONE AMP BD	
101	400-5464-01005	SW REGU VS10C-5	
102	400-5464-05012	SW REGU VS50B-12	
103	400-5464-10024	SW REGU VS100B-24	
104	280-6681	L-LOCK LT-320PCG	
105	280-5277	CORD CLAMP 18	
106	280-0419	HARNESS LUG	
201	011-P00325	TAP SCR PH 3x25	
202	000-P00306-W	M SCR PH W/FS M3x6	
203	011-T03516	TAP SCR TH 3.5x16	
204	011-F00312	TAP SCR #1 FH 3x12	
205	011-T03512	TAP SCR TH 3.5x12	
301	BRK-60011	WH ASSY IO AC IN	
302	BRK-60013	WH HEADPHONE AMP BD OUT	

**(36) BRK-4200  
ASSY XFMR 100-120V**



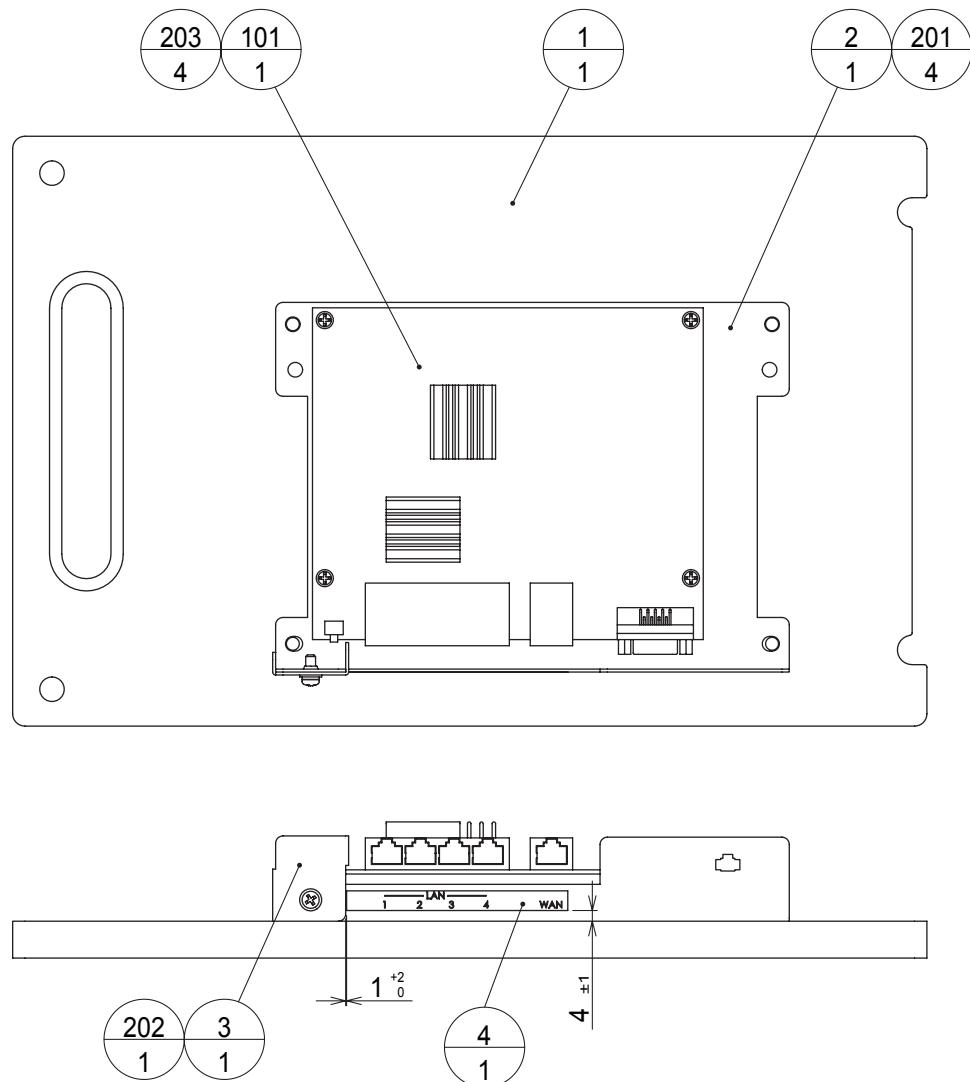
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-4201	WOODEN BASE XFMR	
101	560-5515-V-91	XFMR 100-120V 100V5A WB UL	
102	280-0419	HARNESS LUG	
201	000-P00516-W	M SCR PH W/FS M5x16	
202	011-T03512	TAP SCR TH 3.5x12	
301	BRK-60034	WH XFMR IN	

**(36) BRK-4250  
ASSY XFMR 220-240V**



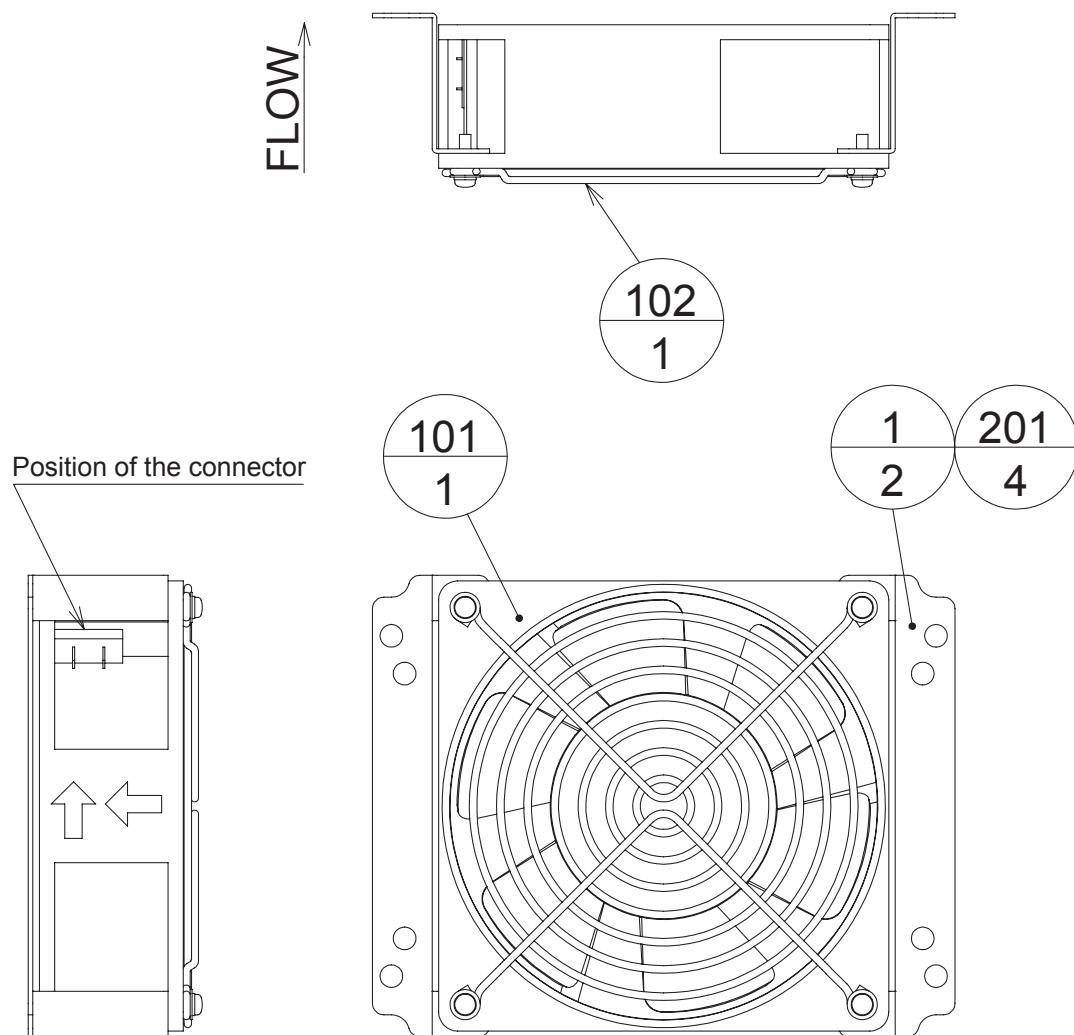
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-4201	WOODEN BASE XFMR	
101	560-5516-V-91	XFMR 220-240V 100V5A WB CE	
102	280-0419	HARNESS LUG	
201	000-P00516-W	M SCR PH W/FS M5x16	
202	011-T03512	TAP SCR TH 3.5x12	
301	BRK-60034	WH XFMR IN	

**(37) BRK-4600**  
**ASSY ROUTER BD PDA**



ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	BRK-4601	WOODEN BASE ROUTER	
2	105-5628	ROUTER HOLDER YAMAHA	
3	TSK-4306	ROUTER SW LID	
4	421-12471	STICKER WAN AND LAN	
101	601-12336-22	ROUTER RT107E BD PDA	
102	280-5275-SR10	CORD CLAMP SR10	
201	000-P00412-W	M SCR PH W/FS M4x12	
202	000-P00408-W	M SCR PH W/FS M4x8	
203	000-P00306-W	M SCR PH W/FS M3x6	
301	600-8032	WH DC ROUTER	

**(38) 610-0757**  
**FAN UNIT**

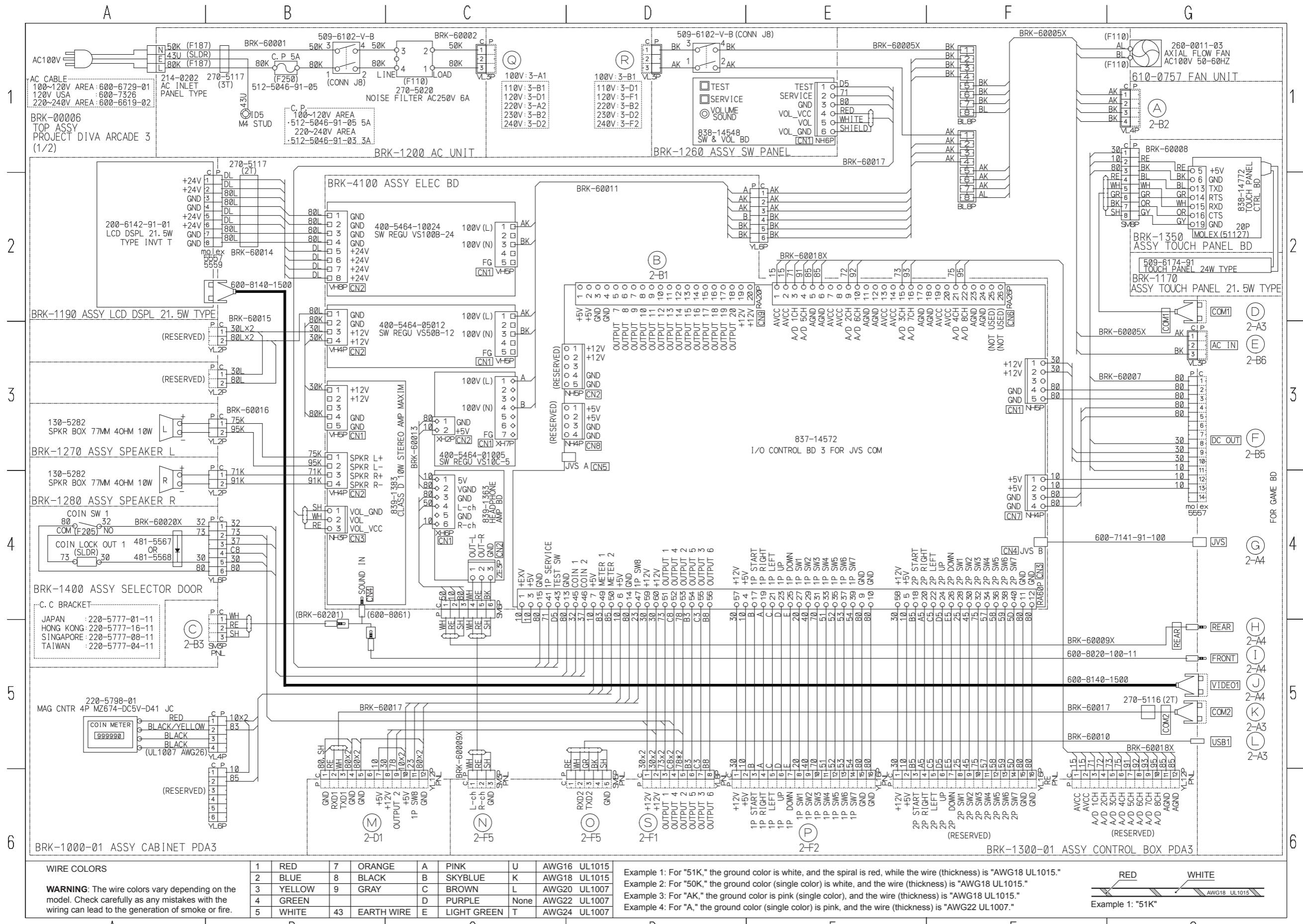


*NOTE: Apply thread-locking fluid to the threaded parts.*

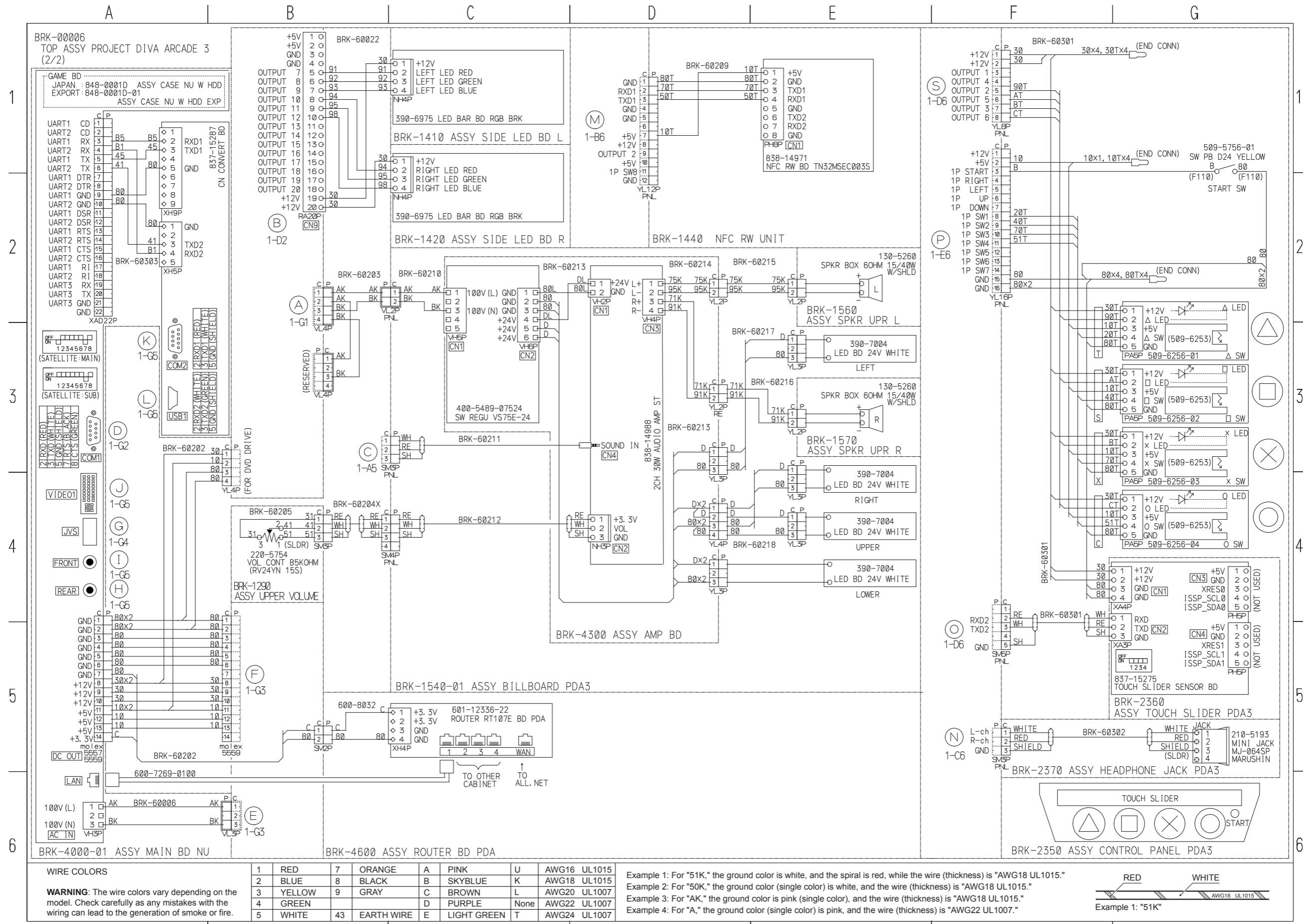
19

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	105-5561-91	FAN BRKT	
101	260-0011-03	AXIAL FLOW FAN AC100V 50-60HZ	
102	601-8543	FAN GUARD	
201	000-P00312-W	M SCR PH W/FS M3x12	

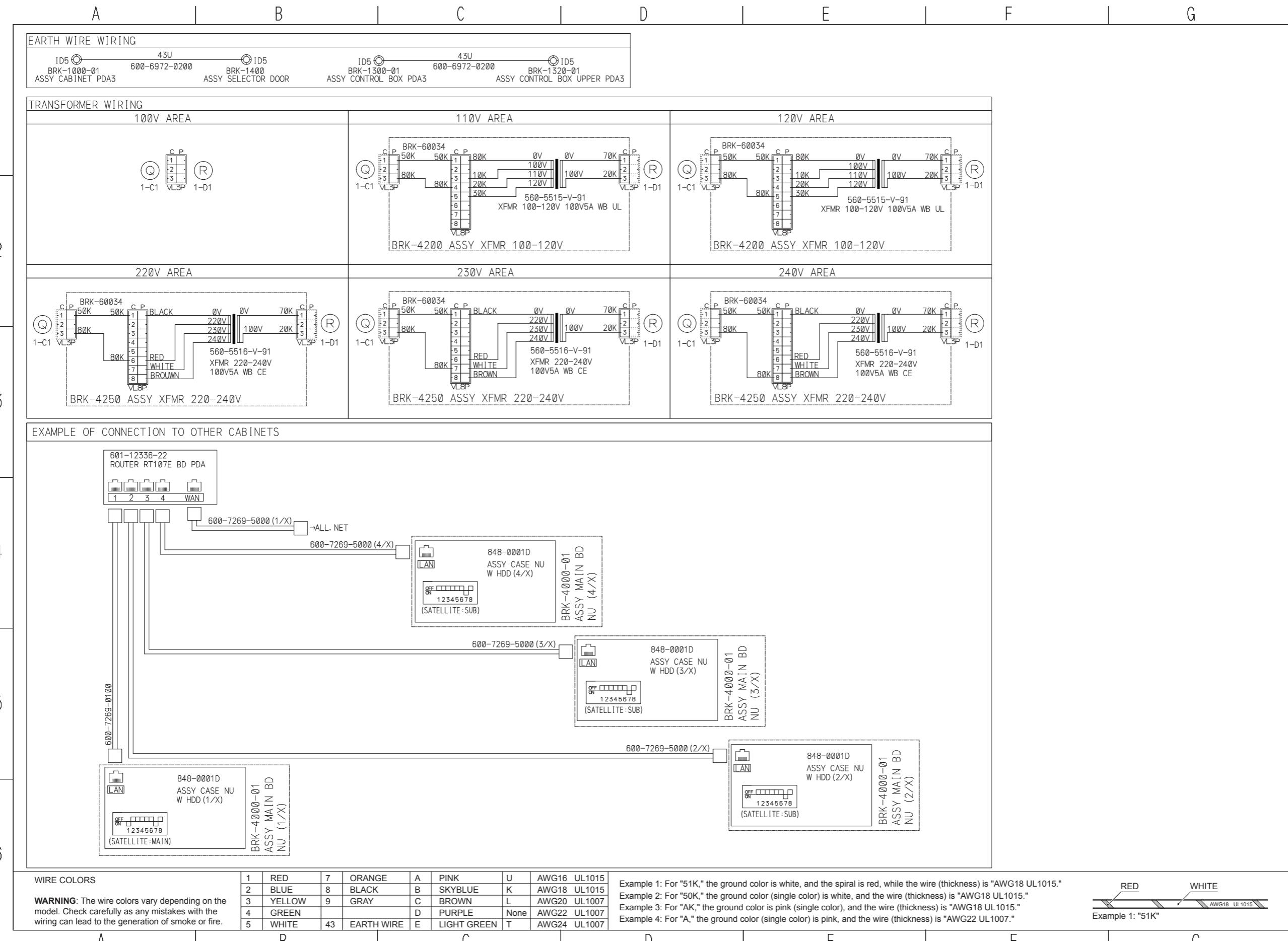
## **20 WIRING DIAGRAM**



(D-2/3)



(D-3/3)





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