maimai DX

OWNER'S MANUAL

420-7651-01

SEGA

OWNER'S MANUAL

SEGA Interactive Co., Ltd.

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 **"maimai DX"** product.

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. After reading this manual, be sure to keep it near the product or in a convenient place for easy reference when necessary.

Refer to the Service Manual for information related to software.

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.

Note: Descriptions herein contained may be subject to improvement changes without notice.

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 degree of severity, the terms of DANGER, WARNING, CAUTION, etc., are used. Be sure to understand the contents of the warning displays before reading the text.

⚠ **DANGER**	Indicates that mishandling the product by disregarding this pictograph will cause severe injury or death.
⚠ **WARNING**	Indicates that mishandling the product by disregarding this warning will cause a potentially hazardous situation which can result in death or serious injury.
⚠ **CAUTION**	Indicates that mishandling the product by disregarding this caution will cause a slightly 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.

(STOP) **IMPORTANT**	Indicates an important detail when installing, operating, or maintaining/inspecting the product.

Definition of 'Site Maintenance Personnel or Other Qualified Professionals'

⚠ **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.
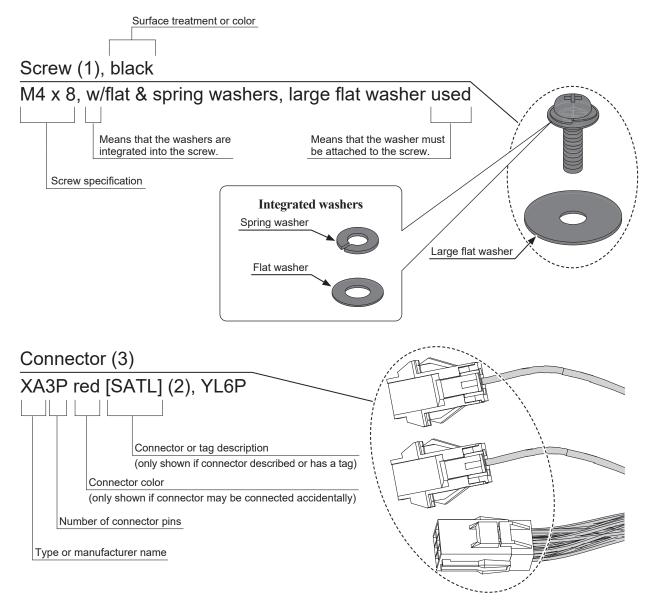
Activities to be carried out by other qualified professionals:

Amusement equipment/vending machine assembly, repair/adjustment of electrical/electronic/mechanical parts.
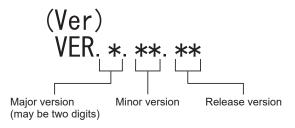
NOTATION USED IN THIS MANUAL

Notation in diagrams

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

Surface treatment or color

Screw (1), black

M4 x 8, w/flat & spring washers, large flat washer used

Means that the washers are integrated into the screw.

Means that the washer must be attached to the screw.

Screw specification

Integrated washers

Spring washer

Flat washer

Large flat washer

Connector (3)

XA3P red [SATL] (2), YL6P

Connector or tag description
(only shown if connector described or has a tag)

Connector color
(only shown if connector may be connected accidentally)

Number of connector pins

Type or manufacturer name

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.

(Ver)
VER. *. **. **

Major version
(may be two digits)

Minor version

Release version

19A4Xe

http://op.sega.jp/op_e/

ABOUT TOOLS

Refer to the chart below to decide which tools to use for fixing fasteners (screws, nuts).
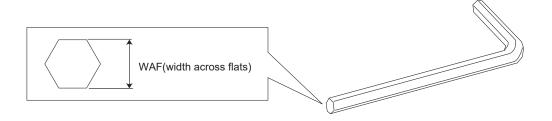
Matching chart of fasteners and tools

Fasteners		Tools	
Truss head screw (M3)		Phillips screwdriver #1	
Truss head screw (M4 , M5)		Phillips screwdriver #2	
Flat head screw (M3-M5)			
Screw (M3-M5)			
Tamperproof screw		Tamperproof wrench	
Hexagon socket head screw		Hexagonal wrench	
Slim head hex socket bolt			
Extra slim head hex socket bolt			
Hex socket button head screw			
Set screw			
Hexagon head bolt		Socket wrench (Nut driver)	
Hexagon head nut			
Cap nut			
Flange nut			

Note: Refer to the chart on the next page to decide which hexagonal wrench or nut driver to use for each size of fastener.
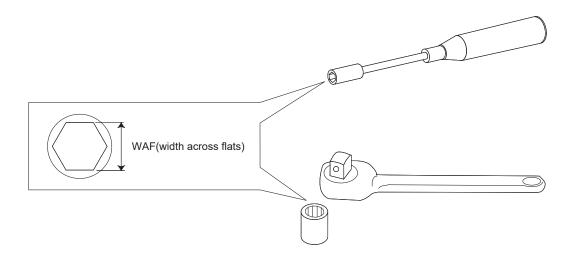
Matching chart of hexagonal wrench

Standard	WAF (width across flats) of tools				
	Hexagon head screw	Slim head hex socket bolt	Extra slim head hex socket bolt	Hex socket button head screw	Set screw
M3	2.5 mm (0.0984 in)	2 mm (0.0787 in)	1.5 mm (0.0591 in)	2 mm (0.0787 in)	1.5 mm (0.0591 in)
M4	3 mm (0.1181 in)	2.5 mm (0.0984 in)	2 mm (0.0787 in)	2.5 mm (0.0984 in)	2 mm (0.0787 in)
M5	4 mm (0.1575 in)	3 mm (0.1181 in)	3 mm (0.1181 in)	3 mm (0.1181 in)	2.5 mm (0.0984 in)
M6	5 mm (0.1969 in)	4 mm (0.1575 in)	3 mm (0.1181 in)	4 mm (0.1575 in)	3 mm (0.1181 in)
M8	6 mm (0.2362 in)	5 mm (0.1969 in)	4 mm (0.1575 in)	5 mm (0.1969 in)	4 mm (0.1575 in)

WAF(width across flats)

Matching chart of socket wrench (nut driver)
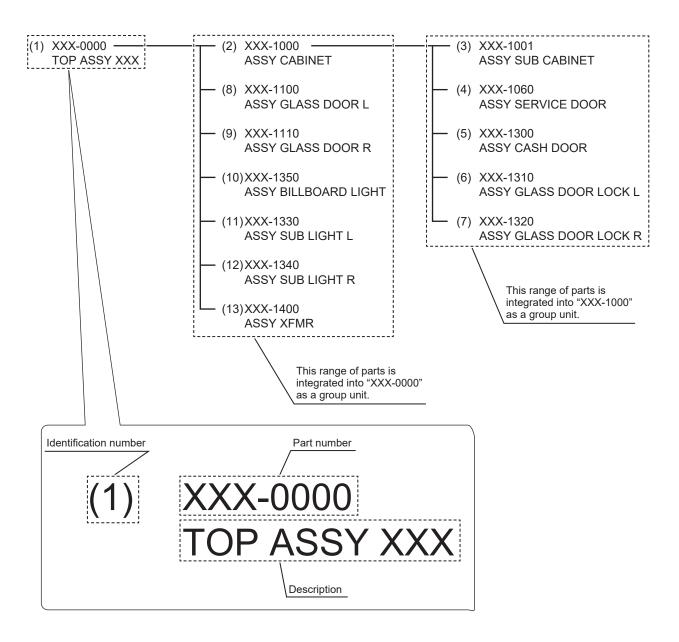
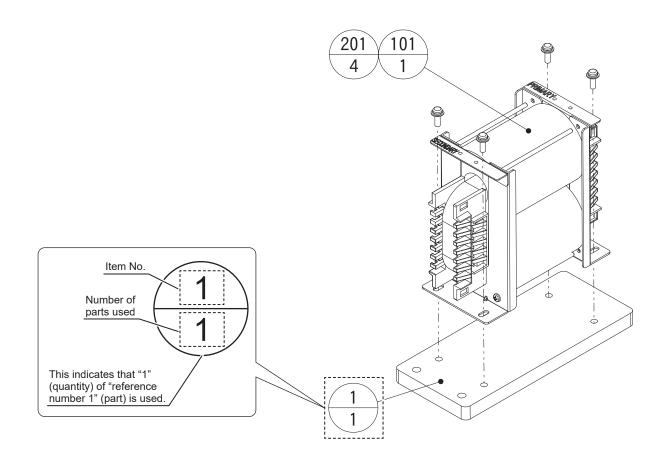| Standard	WAF (width across flats) of tools			
	Hexagon head bolt	Hexagon head nut	Cap nut	Flange nut
M3	5.5 mm (0.2165 in)			
M4	7 mm (0.2756 in)			
M5	8 mm (0.3150 in)			
M6	10 mm (0.3937 in)			
M8	13 mm (0.5118 in)			12 mm (0.4724 in)
M10	17 mm (0.6693 in)		-	
M12	19 mm (0.7480 in)		-	
M16	24 mm (0.9449 in)		-	

WAF(width across flats)

HOW TO READ PARTS LIST

How to read organization chart

The organization chart is a tree diagram that shows the relationship between each unit (composed of multiple parts).

(1) XXX-0000
TOP ASSY XXX

(2) XXX-1000
ASSY CABINET

(8) XXX-1100
ASSY GLASS DOOR L

(9) XXX-1110
ASSY GLASS DOOR R

(10) XXX-1350
ASSY BILLBOARD LIGHT

(11) XXX-1330
ASSY SUB LIGHT L

(12) XXX-1340
ASSY SUB LIGHT R

(13) XXX-1400
ASSY XFMR

(3) XXX-1001
ASSY SUB CABINET

(4) XXX-1060
ASSY SERVICE DOOR

(5) XXX-1300
ASSY CASH DOOR

(6) XXX-1310
ASSY GLASS DOOR LOCK L

(7) XXX-1320
ASSY GLASS DOOR LOCK R

This range of parts is integrated into "XXX-1000" as a group unit.

This range of parts is integrated into "XXX-0000" as a group unit.

Identification number

Part number

(1)

XXX-0000

TOP ASSY XXX

Description

How to read unit assembly diagram

(13) XXX-1400
ASSY XFMR

Item No.

Number of parts used

This indicates that "1" (quantity) of "reference number 1" (part) is used.
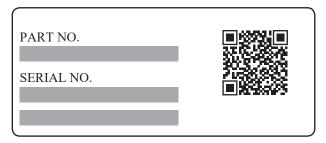
Item No.	Part No.	Description	Note
1	XXX-1401	WOODEN BASE XFMR	
101	560-5523-V	XFMR 100-120V 100V7.5A WB V	
201	000-P00516-W	M SCR PH W/FS M5x16	

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.

PART NO.

SERIAL NO.

Key chip sticker

Key chip attachment position

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

Key chip attachment position

ALLS HX2

TABLE OF CONTENTS

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

1 PRODUCT SPECIFICATIONS

1-1 SPECIFICATIONS

Product Specifications
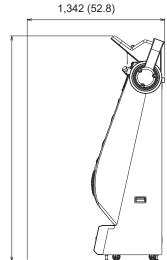
External Dimensions	2,021 mm (79.6 in) [Width] x 1,342 mm (52.8 in) [Depth] x 2,199 mm (86.6 in) [Height] *Note: Raised 5 mm from the floor on adjusters.*	
Weight	322 kg (709.9 lb)	
Power, Maximum Current	342W,1.7A (AC 220V 50Hz Area)	
Power, Current	**Max.**	339W, 3.4A (AC 110V 60Hz; Taiwan)
	Min.	304W, 3.0A (AC 110V 60Hz; Taiwan)
Operating Environment	Temperature: 5°C to 30°C (41°F to 86°F), relative humidity: 35% RH to 70% RH (without condensation)	

External Dimensions (after installation)

2,021 (79.6)

1,342 (52.8)

2,199 (86.6)

Unit: mm (in.)

1
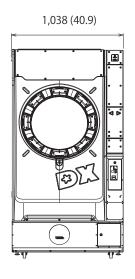
Specifications of Units Before Installation
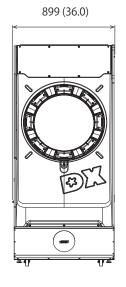
Item	Width	Depth	Height	WEIGHT
Cabinet 1P	1,038 mm (40.9 in)	714 mm (28.1 in)	1,940 mm (76.4 in)	153 kg (337.0 lb)
Cabinet 2P	899 mm (36.0 in)	714 mm (28.1 in)	1,940 mm (76.4 in)	130 kg (286.7 lb)
Billboard	1,850 mm (72.8 in)	574 mm (22.6 in)	273 mm (10.7 in)	24 kg (53.0 lb)
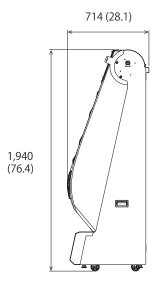
External Dimensions (before installation)

1,038 (40.9)   714 (28.1)

1,940
(76.4)

Cabinet 1P

899 (36.0)   714 (28.1)

1,940
(76.4)
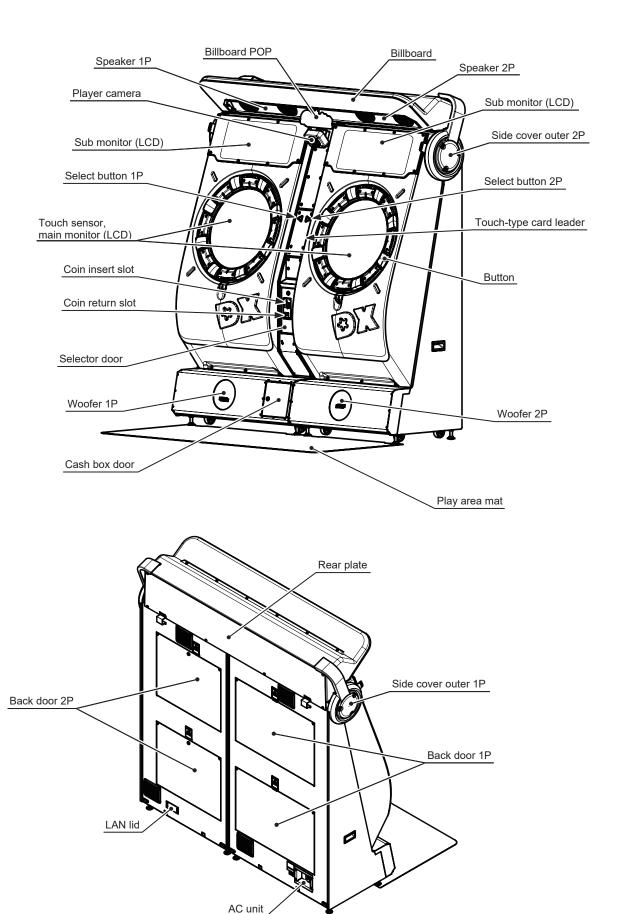
Cabinet 2P
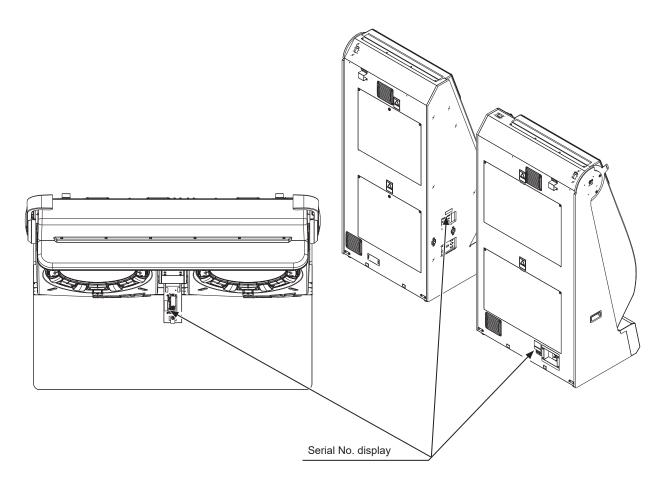
Unit: mm (in.)

1-2 PART DESCRIPTIONS

Speaker 1P
Billboard POP
Billboard
Speaker 2P
Player camera
Sub monitor (LCD)
Sub monitor (LCD)
Side cover outer 2P
Select button 1P
Select button 2P
Touch sensor, main monitor (LCD)
Touch-type card leader
Coin insert slot
Button
Coin return slot
Selector door
Woofer 1P
Woofer 2P
Cash box door
Play area mat

Rear plate
Back door 2P
Side cover outer 1P
Back door 1P
LAN lid
AC unit

1
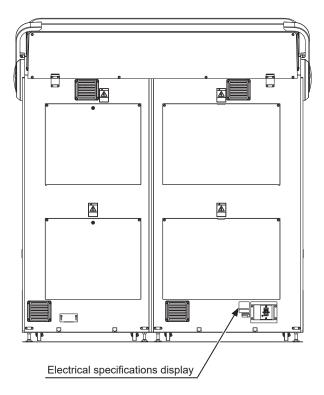
1-3 THE SERIAL NO. AND THE ELECTRICAL SPECIFICATIONS DISPLAYS

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.

Serial No. display

Electrical specifications display

2 HANDLING PRECAUTIONS

⚠ WARNING

- **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 an electric shock, short circuit or fire, 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.**

2

⚠ 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.**

- **When handling heavy objects, pay attention to the following as there could be accidents involving falls or drops, and someone could get caught under the object.**

  - **Have the proper number of personnel on hand for the type of the work to be done. Assume that a worker is only able to support items weighing up to about 15 kg.**
  - **Be careful not to slip or fall.**

- **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 inquires for details.**

- **Be sure to perform the periodic maintenance inspections listed in this manual.**

2

⚠ 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.**

⬭STOP IMPORTANT
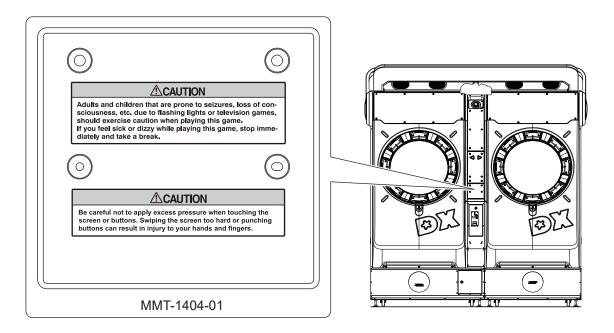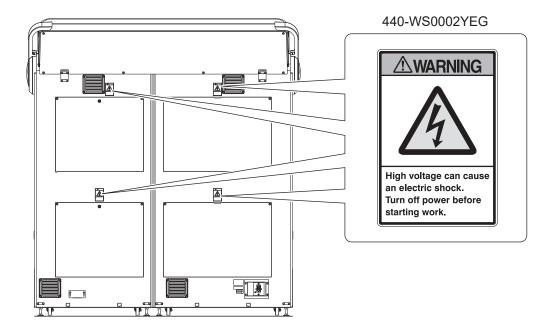
- **When performing periodic maintenance or parts replacement, be sure to have the required tools and equipment on hand and consult the applicable section of this manual before carrying out work.**

- **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 11-1-2.)**

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.

⚠CAUTION

Adults and children that are prone to seizures, loss of consciousness, etc. due to flashing lights or television games, should exercise caution when playing this game.
If you feel sick or dizzy while playing this game, stop immediately and take a break.

⚠CAUTION

Be careful not to apply excess pressure when touching the screen or buttons. Swiping the screen too hard or punching buttons can result in injury to your hands and fingers.

MMT-1404-01

440-WS0002YEG

⚠WARNING

High voltage can cause an electric shock.
Turn off power before starting work.

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

3

⚠ WARNING
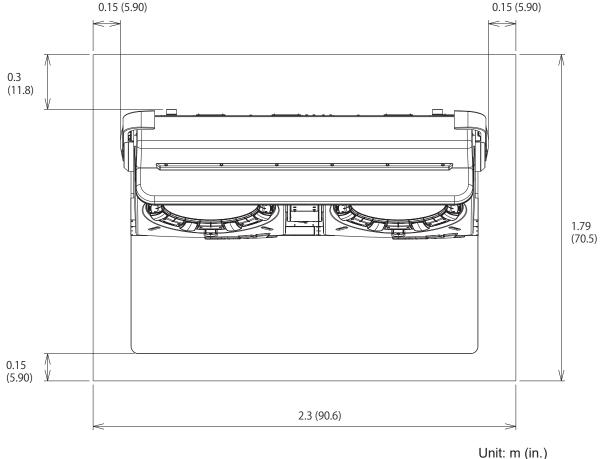
- **Be sure to check the electrical specifications. Ensure that this product is compatible with the location's power supply, voltage, and frequency requirements. A plate describing electrical specifications is attached to the product. Noncompliance with the electrical specifications can cause an electric 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: 7 A or higher

  - AC 220 V – 240 V: 3 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 an electric shock and fire.**

  - AC 100 V – 120 V: 7 A or higher

  - AC 220 V – 240 V: 3 A or higher

3-2 OPERATION AREA

⚠ **WARNING**

● **For safe operation, use and operate this product in an area measuring at least 2.3 m (90.6 in) in width and 1.79 m (70.5 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.**

● **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.**

Installation example

0.15 (5.90) 0.15 (5.90)

0.3 (11.8)

1.79 (70.5)

0.15 (5.90)

2.3 (90.6)

Unit: m (in.)

The 1/100 scale drawing

The 1/100 scale drawing is available for download and use at http://am.sega.jp/.
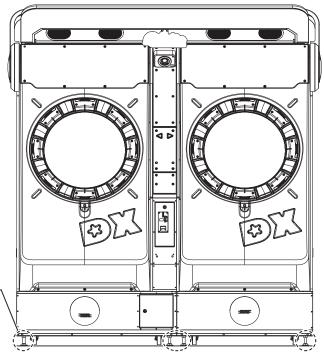
4 PRECAUTIONS REGARDING PRODUCT OPERATION

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, collisions, 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.

Ensure that all of the adjusters are in contact with the floor.

- 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.

- Be sure to check carefully that there are no gaps or rattling at the door or/and the junction of the cabinet. If there are gaps or rattling, the players could get fingers or hands caught, resulting in injury.

- 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 machine 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 screen's flickering or deviation as is. Failure to observe this can have a bad influence upon the players' or the customers' physical conditions.
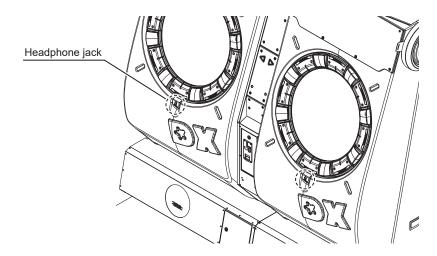
(STOP) **IMPORTANT**

- 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.

- 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.

4

(STOP) IMPORTANT

- **Start the server machine before powering up the client machine. If the server machine is started afterward, the in-store network may not operate correctly.**

- **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.**

- **Do not connect any device other than the headphones to the headphone jack. If a device other than the headphones is connected, the board could be damaged.**

- **Since the headphone jack 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 jack and perform an output test. (See "4-1 SPEAKER TEST" in the Service manual.)**

Headphone jack

4-2 PAYING ATTENTION TO CUSTOMERS

⚠ WARNING

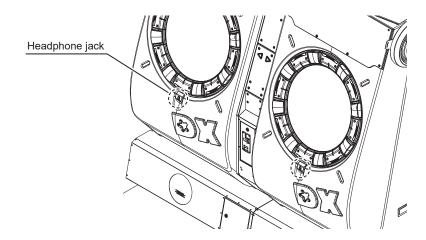- **For safety reasons, do not allow any of the following people to play the game. Failure to observe this warning could result in serious injury.**

  - **Persons who disregard the product's warning displays.**

  - **Those who are intoxicated.**

- **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.**

- **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.**

  - **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.**

  - **Leaning against the monitor or other actions that could lead to accidents.**

⚠ CAUTION

Instruct those who feel sick during play to have a medical examination.

4

(STOP) **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 jack. If a device other than the headphones is connected, the board could be damaged.

Headphone jack

| About Aime cards |

(STOP) **IMPORTANT**

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 lend or loan Aime cards to other people.

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

5 ACCESSORIES

The parts listed in the table below are Tools and Spare parts that may not be used depending on operating conditions. Keep them in a safe place for maintenance purposes.
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.

Note: Some parts listed in the table below may be attached to a cabinet depending on installation conditions.

Accessories table

Part name/Part No.	Diagram/Use etc.	Quantity
About Using the Multipurpose Bracket 421-14274-01	(See Chapter 17.)	1
Master key 220-5793-2-A001		2
Key	For cashbox door The keys are placed inside the Selector door for shipping.	2
Fuse 514-5176-10000 (For Taiwan) 514-5176-5000 (For Hong Kong)	10A (Taiwan), 5A (Hong Kong), Spare (See Chapter 15.)	2
LAN cable (10 m/32.8 ft) 600-7269-1000	(See 6-3.)	1
Test tool 610-0880	For touch sensor test (See "3-5 TOUCH SENSOR TEST" in the Service manual.)	1

5

Part name/Part No.	Diagram/Use etc.	Quantity
Multi purpose bracket MMT-0010	(See Chapter 17.)	2
Truss head screw (Black, M4 x 8) 000-T00408-0B	(See Chapter 17.)	4

Router kit

Kit number: XKT-2293-EX1

Part name/Part No.	Diagram/Use etc.	Quantity
Owner's manual 420-7651-01	This manual	1
ALLS HX2 Service manual 420-7653-01		1
Router unit MMT-4300	(See 6-1-6.)	1
"SERVER"sticker 421-11708	SEGA SERVER (See 6-1-6.)	1
Tamperproof wrench (For M4) 540-0006-01	Tool	1

Part name/Part No.	Diagram/Use etc.	Quantity
LAN cable (1 m/3.3 ft) 600-7269-0100	(See 6-3.)	1
LAN cable (50 m/164 ft) 600-7269-5000	(See 6-3.)	1
Large plain washer (For M4) 068-441616	(See 6-1-6.)	2
Screw (M4 × 35, with Spring lock washer) 000-P00435-S	(See 6-1-6.)	2
Earth cable 600-6972-2500	(See Chapter 10.)	1
Instruction sheet 421-13001-63		1

Software kit

Kit number: XKT-2303-EX1

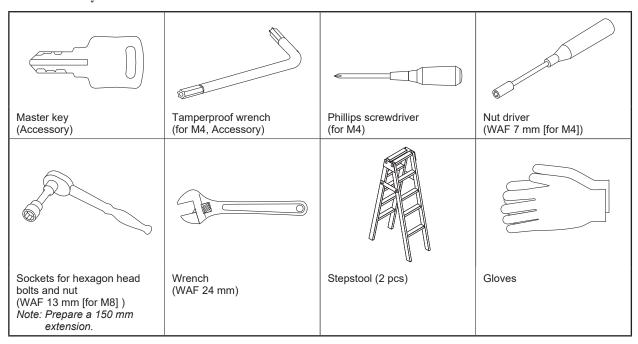| Part name/Part No.	Diagram/Use etc.	Quantity
Installation USB flash drive MDA-U0085	(See 6-5.)	1

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 two or more workers are servicing this product at once. Failing to do so could cause collisions and contact with parts. Assign someone to oversee the work if necessary. 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 one 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.**

- **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 is 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.**

- **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.**

⚠ 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 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.**

- **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.**

Tools necessary for work

Master key (Accessory)	Tamperproof wrench (for M4, Accessory)	Phillips screwdriver (for M4)	Nut driver (WAF 7 mm [for M4])
Sockets for hexagon head bolts and nut (WAF 13 mm [for M8]) *Note: Prepare a 150 mm extension.*	Wrench (WAF 24 mm)	Stepstool (2 pcs)	Gloves
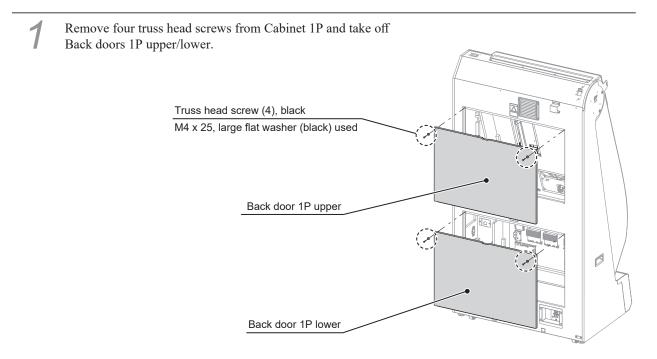
6-1 ASSEMBLING THE CABINET

Have two or more workers and use a stepstool when performing this task.
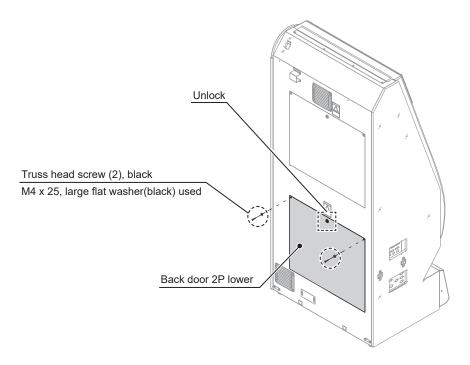
6-1-1 Connecting Cabinet 1P and Cabinet 2P

(STOP) **IMPORTANT**
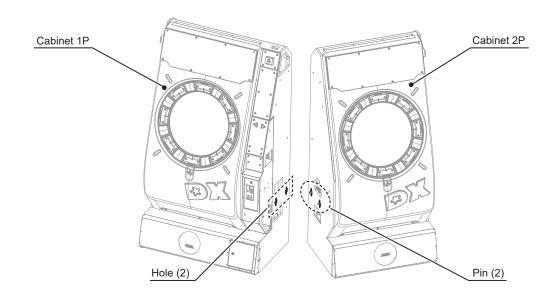
Connect Cabinet 1P to Cabinet 2P on a flat, level surface.

1 Remove four truss head screws from Cabinet 1P and take off Back doors 1P upper/lower.

Truss head screw (4), black
M4 x 25, large flat washer (black) used

Back door 1P upper

Back door 1P lower
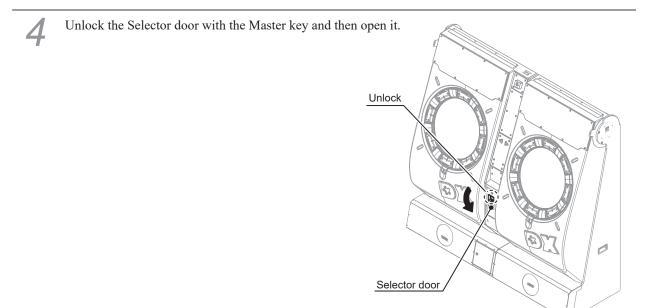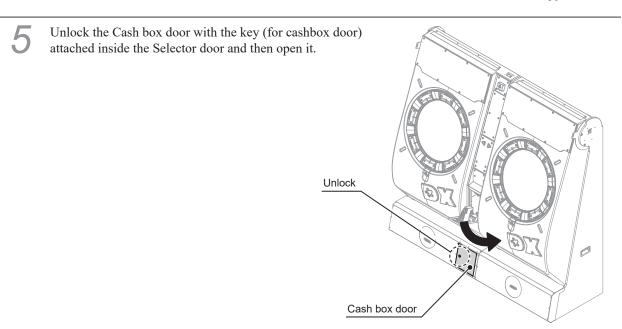
2 Remove two truss head screws from Cabinet 2P, and then unlock Back door 2P lower and take it off.

Unlock

Truss head screw (2), black
M4 x 25, large flat washer(black) used

Back door 2P lower

3 Insert the Cabinet 2P pin into the hole of Cabinet 1P. When doing this, be careful not to get cables caught.

Cabinet 1P

Cabinet 2P

Hole (2)

Pin (2)

4 Unlock the Selector door with the Master key and then open it.

Unlock

Selector door

5 Unlock the Cash box door with the key (for cashbox door) attached inside the Selector door and then open it.

Unlock

Cash box door

6
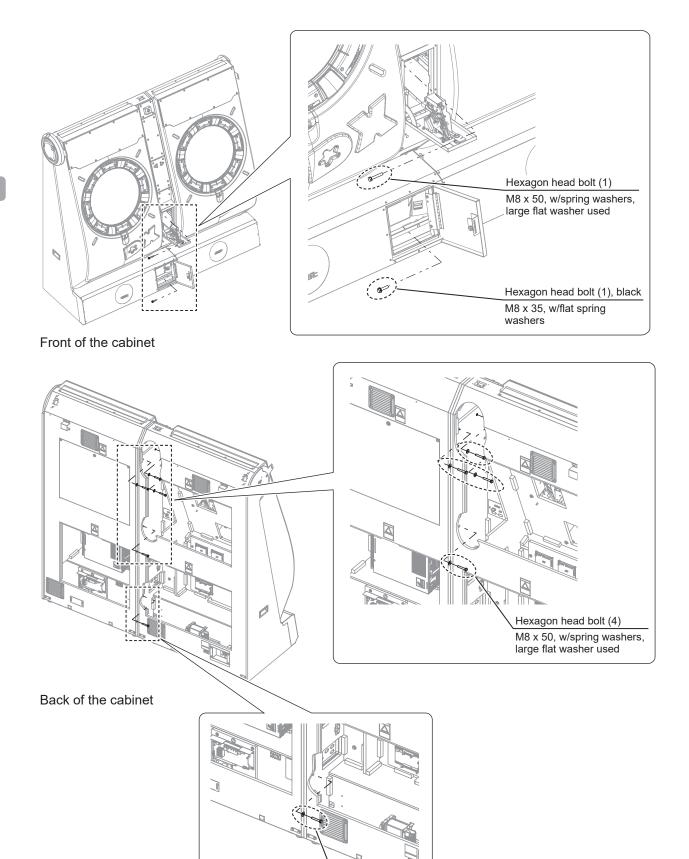
6 Secure Cabinet 1P and 2P with seven hexagon head bolts. When doing this, use a 150 mm extension for one hexagon head bolt (black).

Hexagon head bolt (1)
M8 x 50, w/spring washers, large flat washer used

Hexagon head bolt (1), black
M8 x 35, w/flat spring washers

Front of the cabinet

Hexagon head bolt (4)
M8 x 50, w/spring washers, large flat washer used

Back of the cabinet

Hexagon head bolt (1)
M8 x 50, w/spring washers, large flat washer used

7 Connect 14 connectors.
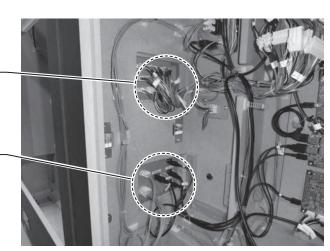
Connector (8)

SM3P, SM11P, SM12P, A12P,
XAD26P, YL2P, YL4P, YL6P

Connector (6)
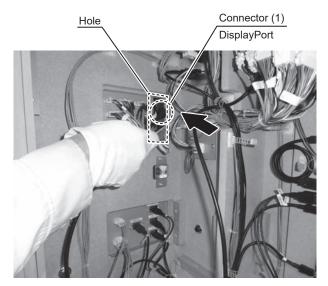
VL2P, VL6P, USB2.0 (3), USB3.0
Note:
- Connect USB2.0 connectors to [P CAMERA][USB
  HUB][I/O BD] from upper right respectively.
- Connect USB3.0 connector to [INSTALL] at the center.

Inside Cabinet 1P (back)
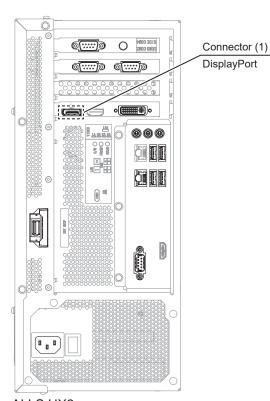
8 Pull out the DisplayPort cable from Cabinet 1P to Cabinet 2P and connect it to the ALLS HX2 installed on Cabinet 2P.

Hole

Connector (1)
DisplayPort

Connector (1)
DisplayPort
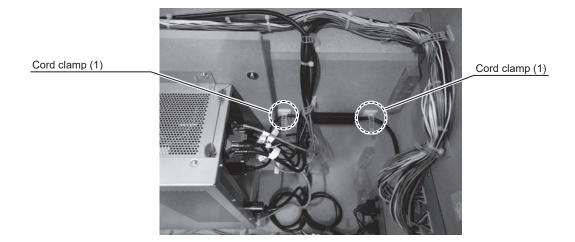
Inside Cabinet 1P (back)

ALLS HX2

9 Place the box attached to the cable to right between the two cord clamps and secure the cable with the two cord clamps.

Cord clamp (1)   Cord clamp (1)
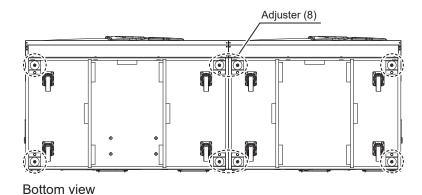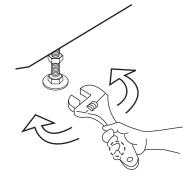
10 Refer to Steps 4 and 5 and work in reverse order to close the Cash box door and Selector door.
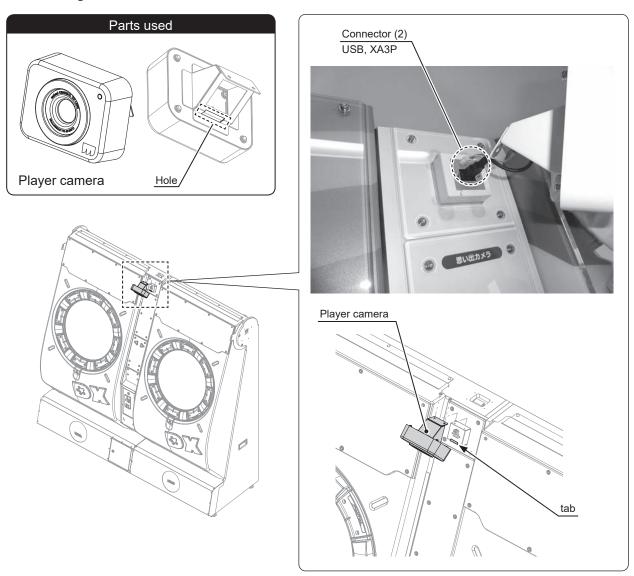
6-1-2 Attaching the Player camera

1 Bring the eight adjusters into direct contact with the floor.

Adjuster (8)

Bottom view
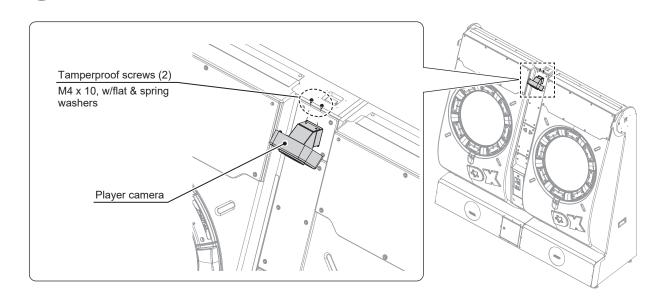
2 Connect two connectors on the Player camera and attach the Player camera to the cabinet. When doing this, hook the hole behind the Player camera to the tab on the cabinet. Also, be careful not to get the cables caught.

Parts used

Player camera   Hole

Connector (2)
USB, XA3P

思い出カメラ

Player camera

tab
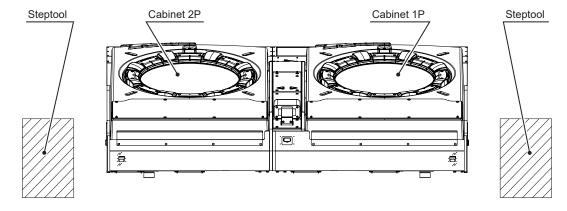
3 Secure the Player camera with two tamperproof screws.

Tamperproof screws (2)
M4 x 10, w/flat & spring
washers

Player camera

6
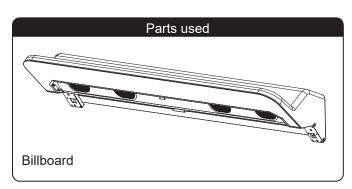
6-1-3 Attaching the Billboard
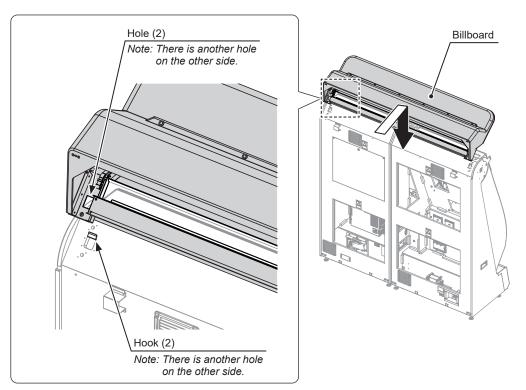
1 Place two steptools beside the cabinet as below.

Steptool   Cabinet 2P   Cabinet 1P   Steptool

Cabinet plan view
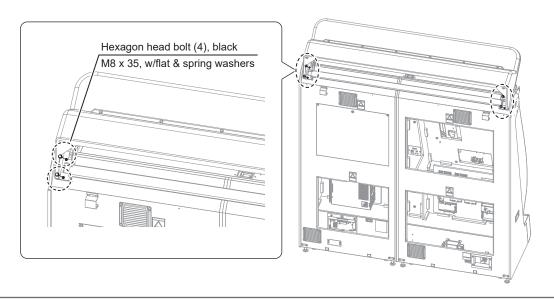
2 Have at least two people support the Billboard and attach it to the cabinet. When doing this, hook the hole behind the Billboard to the tab on the cabinet.

Parts used

Billboard

Hole (2)
Note: There is another hole on the other side.

Billboard

Hook (2)
Note: There is another hole on the other side.
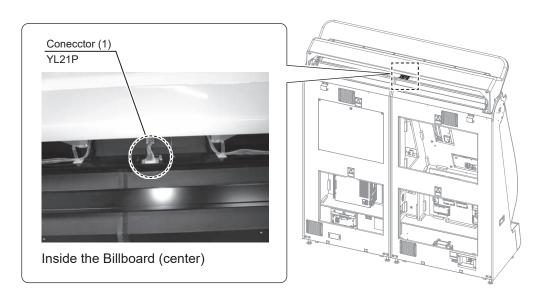
3 Secure the Billboard with four hexagon head bolts.

Hexagon head bolt (4), black
M8 x 35, w/flat & spring washers

4 Connect a conecctor.

Conecctor (1)
YL21P

Inside the Billboard (center)
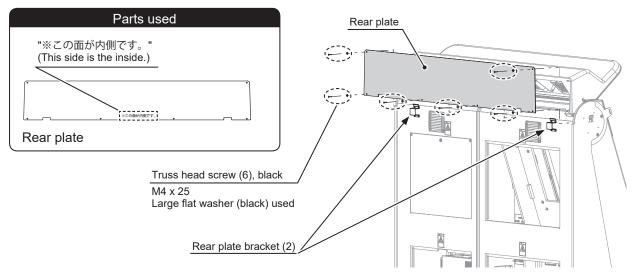
5 Insert the Rear plate to the Rear plate bracket and secure it with six truss head screws. When doing this, make sure that the white side with "※この面が内側です。" (This side is the inside.) comes inside the cabinet.

Parts used

"※この面が内側です。"
(This side is the inside.)

※この面が内側です。

Rear plate

Rear plate

Truss head screw (6), black
M4 x 25
Large flat washer (black) used

Rear plate bracket (2)
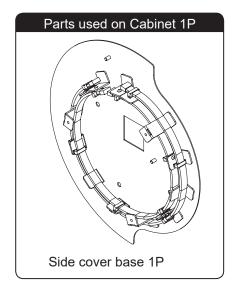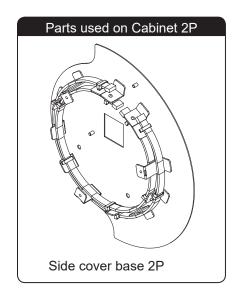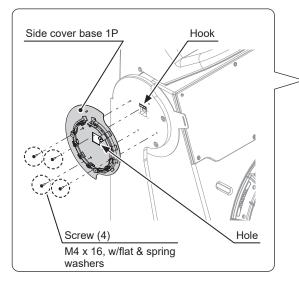
6-1-4 Attaching the Side cover and Billboard POP
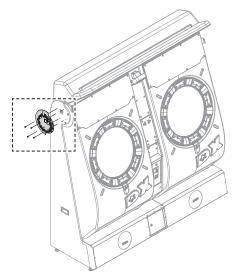
1 Hook the hole on the Side cover base 1P to the tab on the cabinet and then secure it with four screws.

Parts used on Cabinet 1P	Parts used on Cabinet 2P
Side cover base 1P	Side cover base 2P

Side cover base 1P Hook

Screw (4) Hole
M4 x 16, w/flat & spring
washers
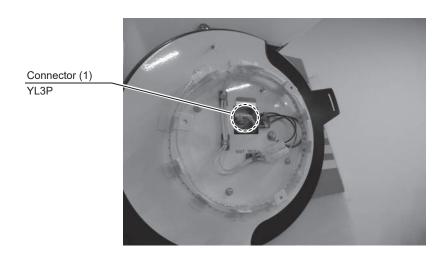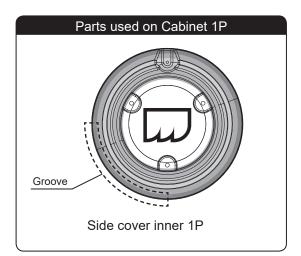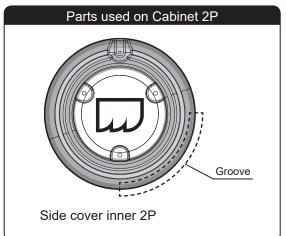
2 Connect a connector.

Connector (1)
YL3P
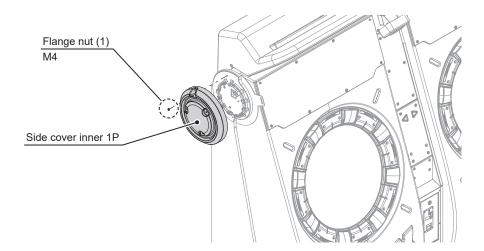
3 Attach Side cover inner 1P with a flange nut.

Parts used on Cabinet 1P	Parts used on Cabinet 2P
Groove	Groove
Side cover inner 1P	Side cover inner 2P

Flange nut (1)
M4

Side cover inner 1P
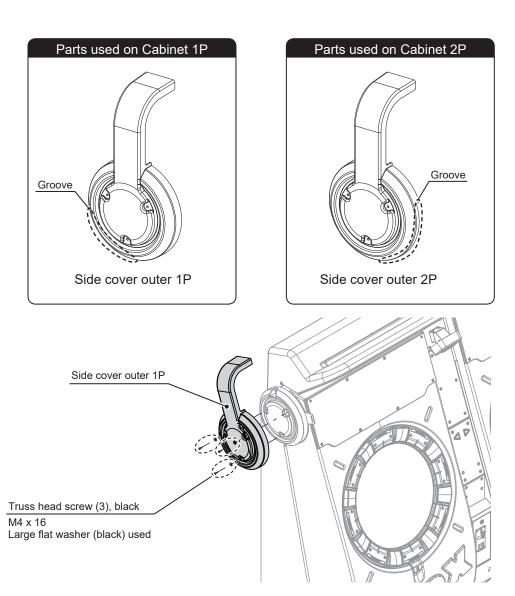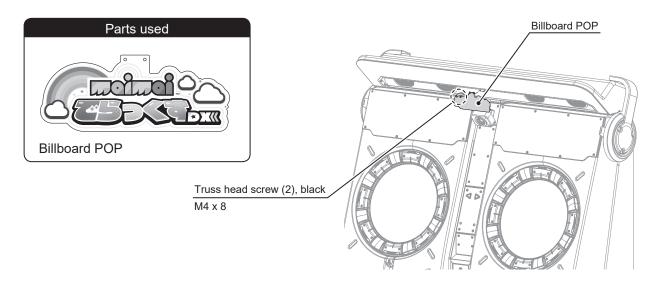
4 Attach Side cover outer 1P with three truss head screws.

Parts used on Cabinet 1P	Parts used on Cabinet 2P
Groove	Groove
Side cover outer 1P	Side cover outer 2P

Side cover outer 1P

Truss head screw (3), black
M4 x 16
Large flat washer (black) used

5 Refer to Step 1 to 4 and work in the same order to attach Side cover base 2P, Side cover inner 2P and Side cover outer 2P.

6 Attach the Billboard POP with two truss head screws.

Billboard POP

Parts used
Billboard POP

Truss head screw (2), black
M4 x 8
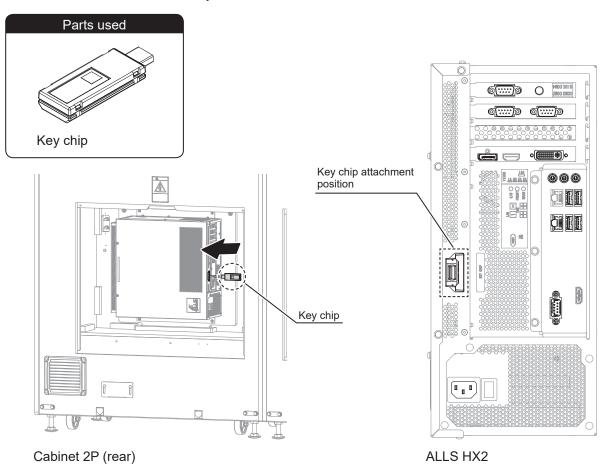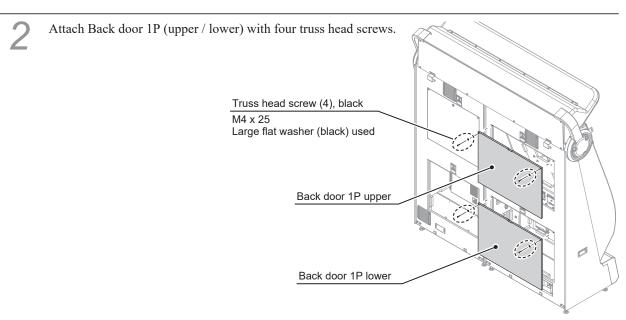
6-1-5 Attaching the Key chip

STOP ⬤ IMPORTANT

> **The key chip is a precision device. It can be damaged by heat, impact, and static electricity. Exercise caution in handling this equipment.**

1 Insert the key chip into the ALLS HX2. When doing this, check the direction of the key chip carefully and be sure to insert it all the way in.

Parts used

Key chip

Key chip attachment position

Key chip

Cabinet 2P (rear)

ALLS HX2

2 Attach Back door 1P (upper / lower) with four truss head screws.

Truss head screw (4), black
M4 x 25
Large flat washer (black) used

Back door 1P upper

Back door 1P lower
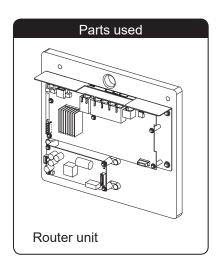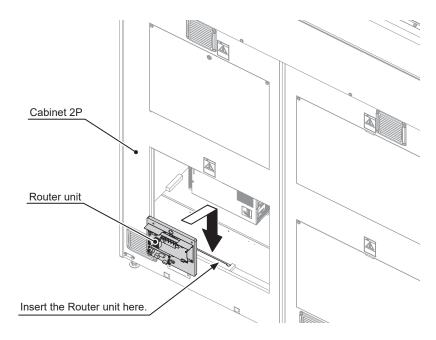
6-1-6 Attaching the Router unit

Tasks described in this chapter should be applied only on the Server machine.
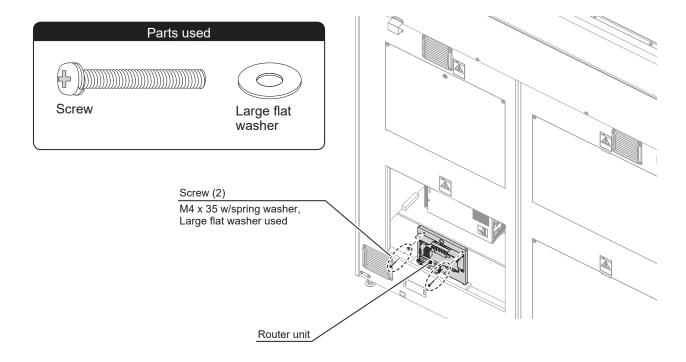
1 Insert the Router unit from the Router kit to Cabinet 2P. When doing this, be careful not to get the cables caught.

Parts used

Router unit

Cabinet 2P

Router unit

Insert the Router unit here.
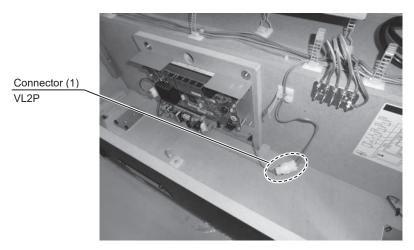
2 Secure the Router unit with two screws from the Router kit.

Parts used

Screw

Large flat washer

Screw (2)
M4 x 35 w/spring washer,
Large flat washer used

Router unit

3 Connect a connector.

Connector (1)
VL2P
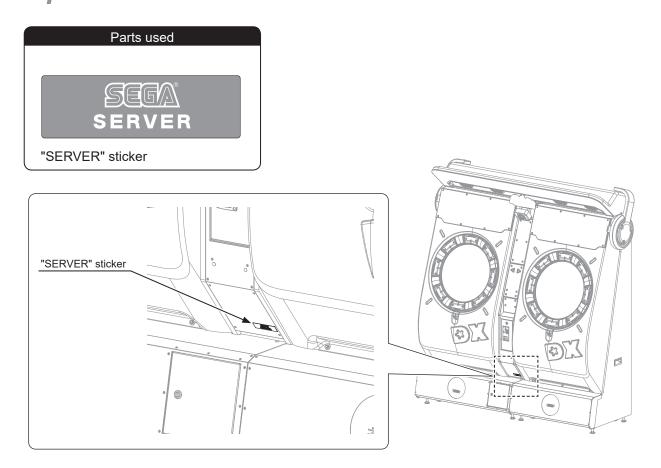
Back of cabinet 2P (inside)
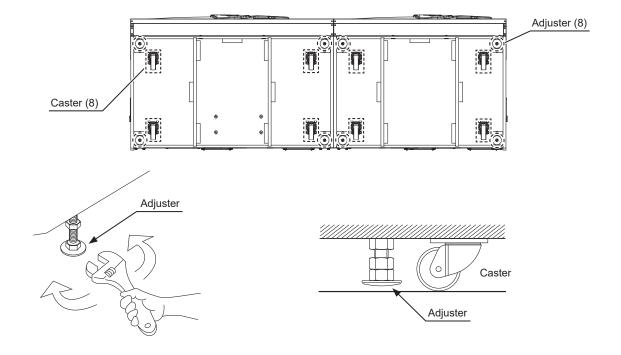
4 Refer to the figure below, attach the "SERVER" sticker from the Router kit.

Parts used

"SERVER" sticker

"SERVER" sticker
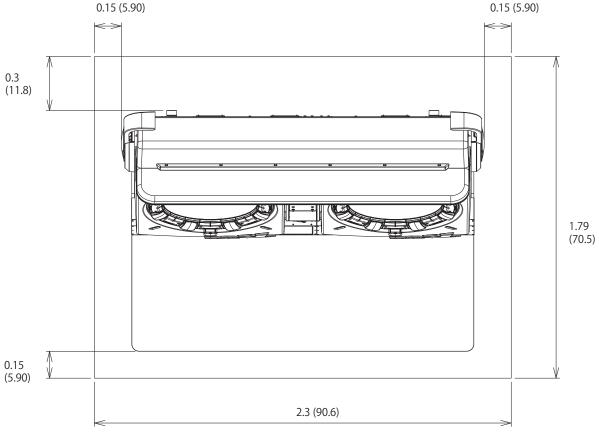
6-2 INSTALLING THE CABINET

1 Raise the eight adjusters on the bottom of the cabinet and have the eight casters contact the floor.

Adjuster (8)

Caster (8)

Adjuster

Adjuster

Caster
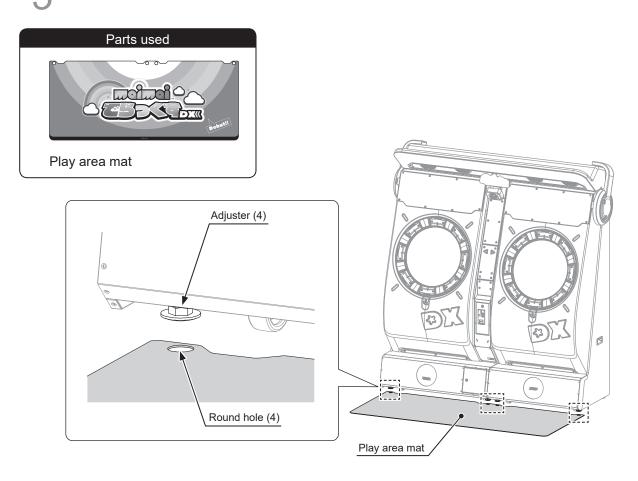
2 Move the product to the installation site. (See 3-2, Chapter 8.)

0.15 (5.90)

0.15 (5.90)

0.3 (11.8)

1.79 (70.5)

0.15 (5.90)

2.3 (90.6)
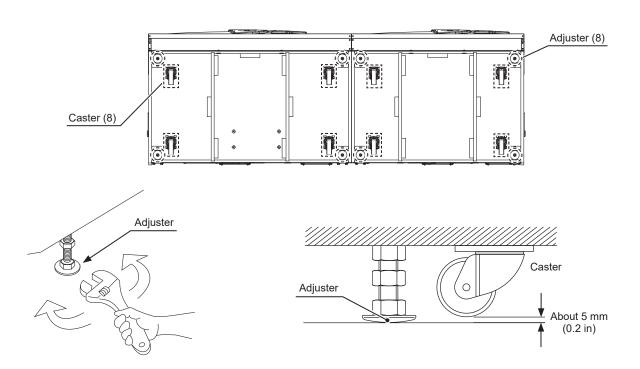
Cabinet installation example [Unit: m (in.)]

6

3 Lay the Play area mat with its round holes aligned with the adjusters.

Parts used

Play area mat

Adjuster (4)

Round hole (4)

Play area mat
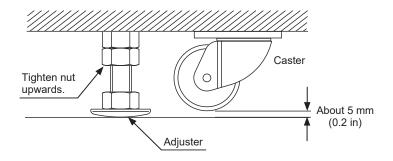
4 Bring the adjusters into direct contact with the floor. Align the height of the adjusters 5 mm from the floor and the cabinet is perfectly level. Also, ensure that the adjusters are sitting inside the round holes in the Play area mat.

Adjuster (8)

Caster (8)

Adjuster

Adjuster

Caster

About 5 mm (0.2 in)
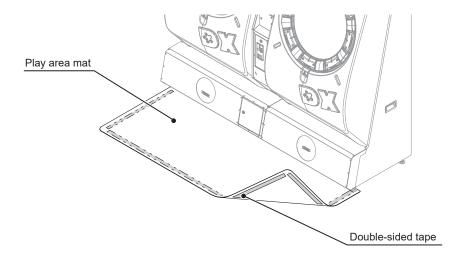
5 After setting, turn adjuster nuts upwards to tighten them and secure adjuster heights.

Tighten nut upwards.

Caster

About 5 mm (0.2 in)

Adjuster

6

6 Secure the underside of the Play area mat with double-sided tape.

Play area mat

Double-sided tape
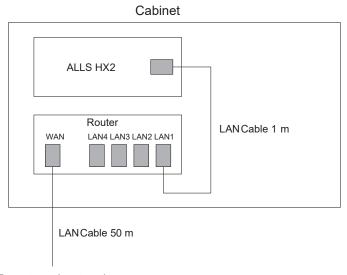
6-3 CONNECTING THE LAN CABLE

The external network environment (devices, facility, etc.) may vary depending on the store.
For details on connecting to external network (ALL.Net), contact the point-of-purchase or the office listed in this manual.
Refer to "6-3-1" for one cabinet operation and refer to "6-3-2" for two cabinet operation.
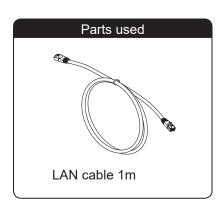
6-3-1 One cabinet operation

Cabinet

ALLS HX2

Router

WAN LAN4 LAN3 LAN2 LAN1

LAN Cable 1 m

LAN Cable 50 m

To external network (ALL.Net)

Network block chart
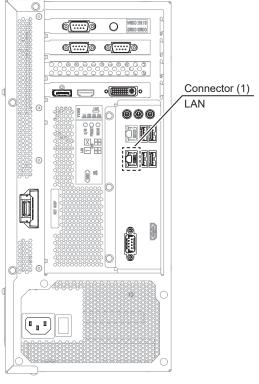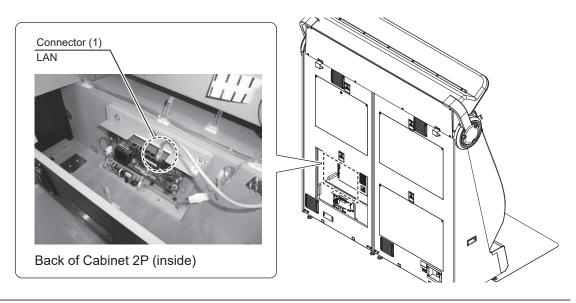
1 Connect the LAN cable 1m from the Router kit to ALLS HX2.

Parts used

LAN cable 1m

Connector (1)
LAN

ALLS HX2

6
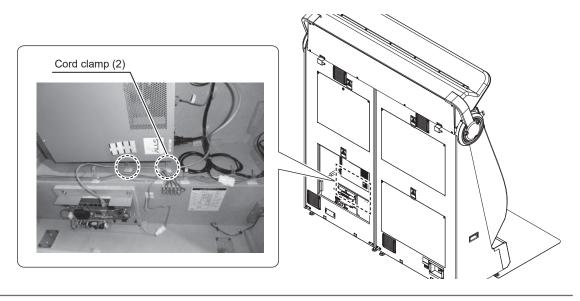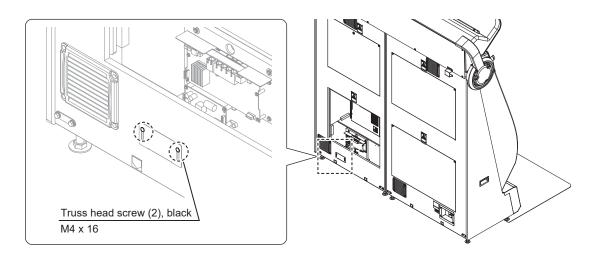
2 Connect the connector on the other side of the LAN cable 1 m connected in Step 1 to an available LAN port (excluding WAN port) on the router unit.

Connector (1)
LAN

Back of Cabinet 2P (inside)
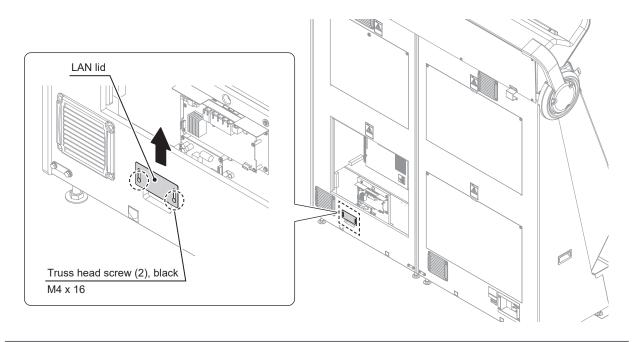
3 Secure the LAN cable 1 m with two cord clamps.
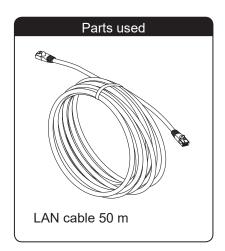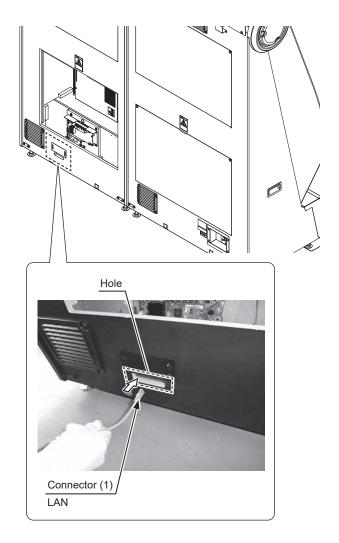
Cord clamp (2)

4 Loosen two truss head screws.

Truss head screw (2), black
M4 x 16

5 Slide the LAN lid upwards and then fully tighten the two truss head screws that were loosened in Step 4.

LAN lid

Truss head screw (2), black
M4 x 16
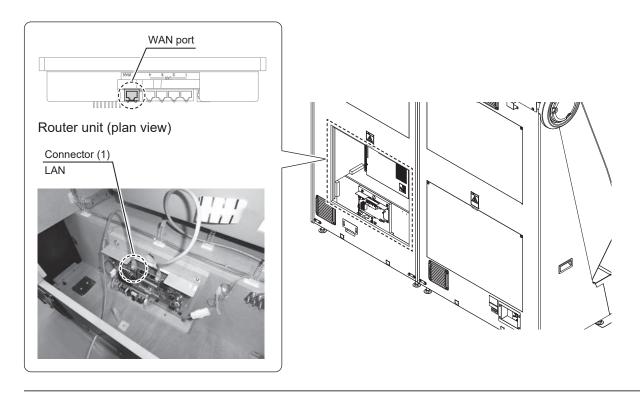
6 Pass the LAN cable 50 m from the Router kit through the hole.

Parts used

LAN cable 50 m

Hole

Connector (1)
LAN
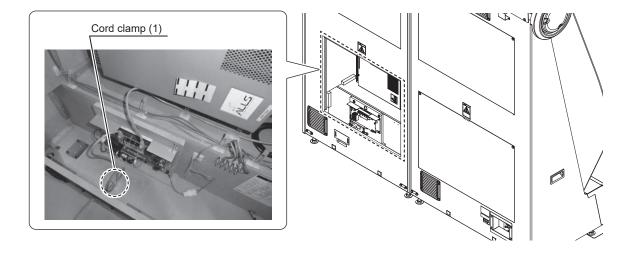
7 Connect the connector of the LAN cable 50 m passed through in Step 6 to the WAN port of the Router unit.

WAN port

Router unit (plan view)

Connector (1)

LAN
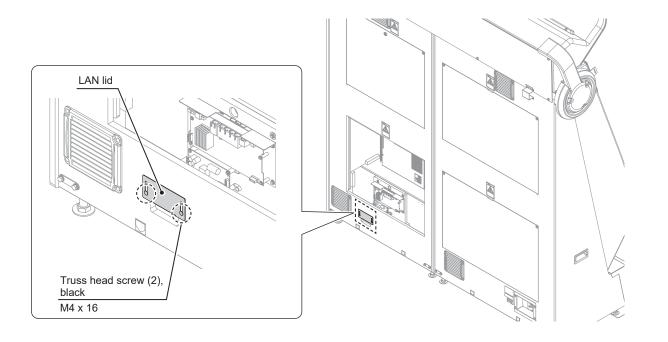
8 Make an about 10 cm diameter ring with the LAN cable 50 m and then secure it with a cord clamp.

Cord clamp (1)
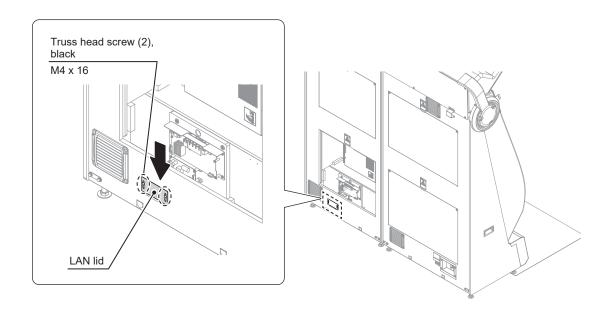
9 Connect the opposite end of the connector that is connected to the WAN port of the Router unit to the external network (ALL.Net).

10 Loosen two truss head screws.

LAN lid

Truss head screw (2), black

M4 x 16
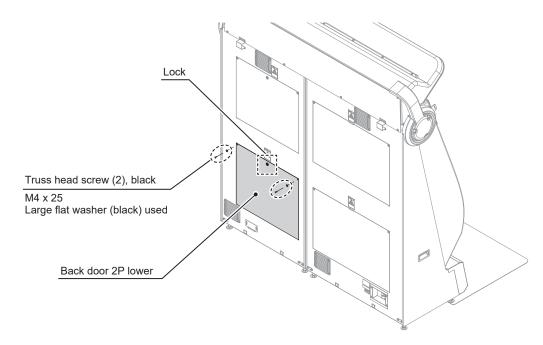
11 Close the LAN lid so that it is not in contact with the LAN cable 50 m.

Truss head screw (2), black

M4 x 16

LAN lid
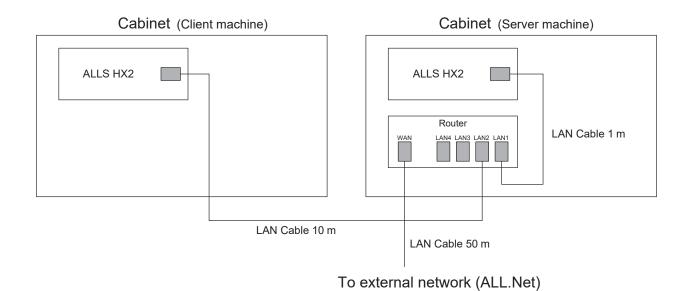
12 Close the Back door 2P lower. Lock it with the master key and secure with two truss head screws.

Lock

Truss head screw (2), black

M4 x 25
Large flat washer (black) used

Back door 2P lower

6-3-2 Two cabinet operation

The explanation in this chapter is based on operating with one server machine and one client machine.
Note: Always connect just one client machine to one server machine, do not connect two or more client machines.
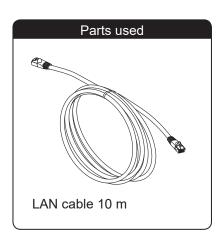
Cabinet (Client machine)   Cabinet (Server machine)

ALLS HX2   ALLS HX2

Router

WAN   LAN4 LAN3 LAN2 LAN1   LAN Cable 1 m

LAN Cable 10 m

LAN Cable 50 m

To external network (ALL.Net)
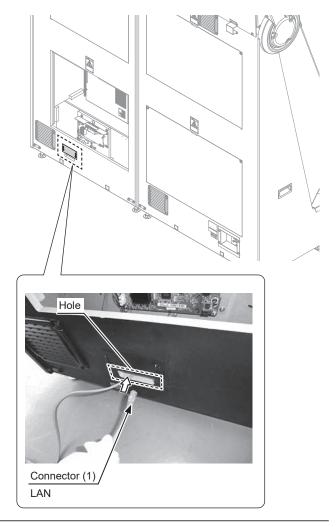
Network block chart
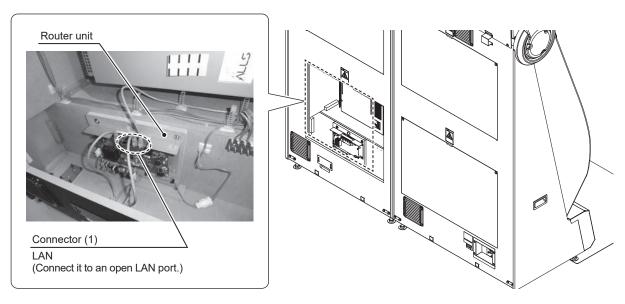
6-3-2-A Server machine

1 Refer to Steps from 1 to 9 in "6-3-1" and work in the same order on the server machine.

2 Pass the connector of the LAN cable 10 m supplied with the cabinet through the hole of the cabinet that the Router unit is attached.

Parts used

LAN cable 10 m

Hole

Connector (1)
LAN

3 Connect the connector of the LAN cable 10 m passed through in Step 2 to an open LAN port on the Router unit.

Router unit

Connector (1)

LAN
(Connect it to an open LAN port.)
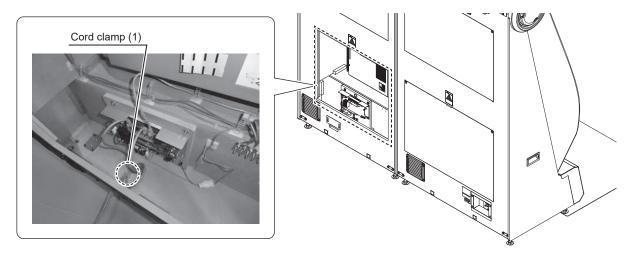
4 Secure the LAN cable 50 m and the LAN cable 10 m with a cord clamp. When doing this, be careful with the following;

- Make an about 10 cm diameter ring with the LAN cables and then secure them with a cord clamp.
- Put the excess LAN cables outside the cabinet.

Cord clamp (1)
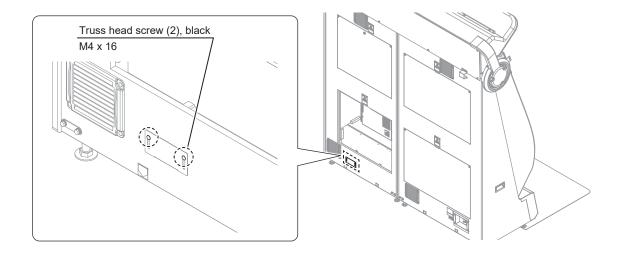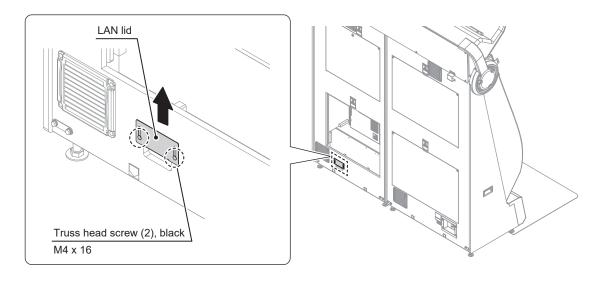
5 Refer to Steps from 10 to 12 in "6-3-1" and work in the same order.

6-3-2-B Client machine
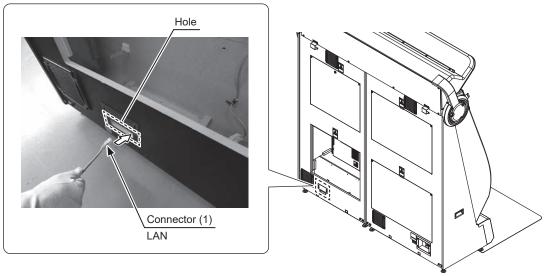
1 Loosen the two truss head screws on the client machine.

Truss head screw (2), black
M4 x 16

2 Slide the LAN lid upwards and then fully tighten the two truss head screws that were loosened in Step 1.

LAN lid

Truss head screw (2), black
M4 x 16
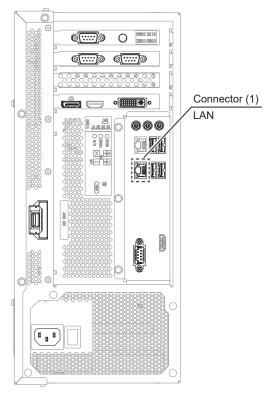
3 Pass the connector on the other side of the LAN cable 10 m connected to the server machine in Step 3 in "6-3-2-A" through the hole of the client machine.

Hole

Connector (1)
LAN
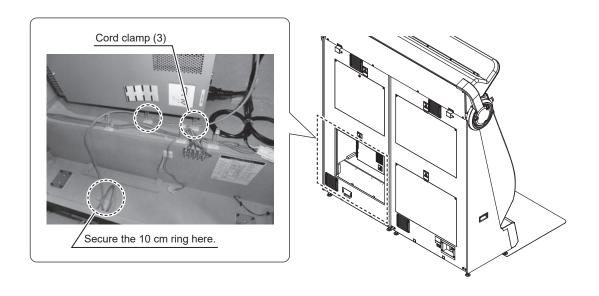
4 Connect the connector of the LAN cable 10 m passed through the hole in Step 3 to the ALLS HX2.

Connector (1)
LAN

ALLS HX2

5 Make an about 10 cm diameter ring with the LAN cable 10 m and then secure it with three cord clamps.

Cord clamp (3)

Secure the 10 cm ring here.

6 Refer to Steps from 10 to 12 in "6-3-1" and work in the same order.

6-4 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 electrical 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.**
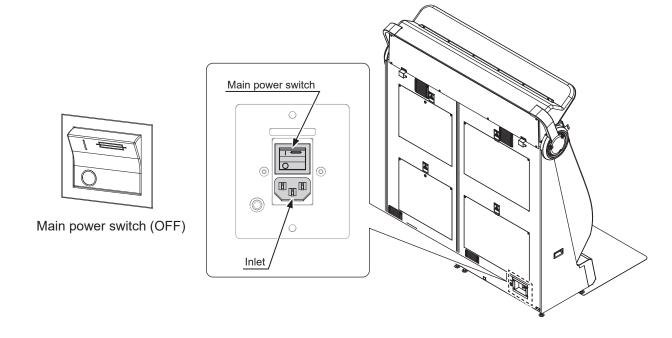
The AC unit has power switch, circuit protector, earth terminal and the inlet which connects the power cable.
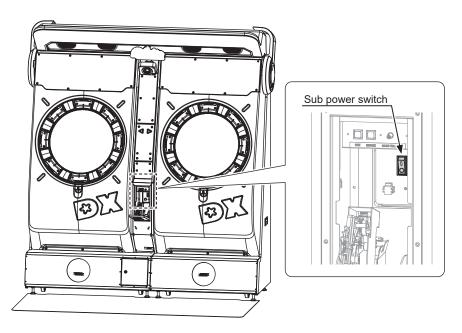
1 Check that the power switch is turned OFF.
The main power switch is in the AC unit and the sub power switch is inside the selector door.
Note: When the main power switch is ON and the sub power switch is OFF, the power to the router is still supplied.

Main power switch

Main power switch (OFF)

Inlet

Sub power switch

Sub power switch (OFF)
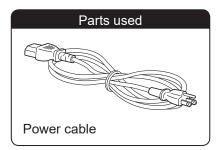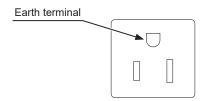
2 Firmly insert the power cable connector to the inlet on the AC unit and the plug to the outlet.

Parts used
Power cable

When connecting to a power outlet equipped with an earth terminal
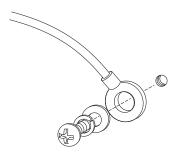
The included power cable has a built-in earth cable. Connect the power cable to the AC unit, and connect the plug of the power cable into "a power outlet equipped with an earth terminal".

Earth terminal

Example of a power outlet equipped with an earth terminal

When using a separately prepared earth cable
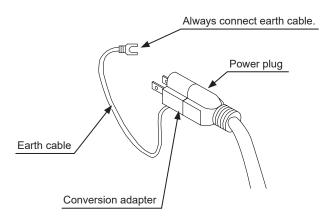
If a "power outlet equipped with an earth terminal" is not available, always connect the earth screw of the AC unit, the earth terminal, or a separately prepared grounding device with an earth cable to be securely grounded.
Remove the earth screw of the AC unit, pass it through the round terminal of the earth cable, and then fasten it. Pass screw through a spring washer and flat washer.

Connection of earth cable
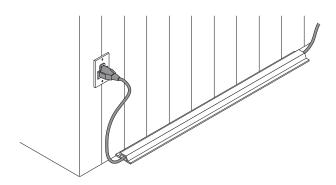
When using a conversion adapter sold on the market

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.

Always connect earth cable.

Power plug

Earth cable

Conversion adapter

3 The power cable is laid out indoors. Protect the power cable by attaching cable cover to it.
If grounded using a separately prepared earth cable, ground and protect the indoor wiring at the same time.

6-5 SOFTWARE INSTALLATION

⚠ 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 electrical shock.**

STOP **IMPORTANT**
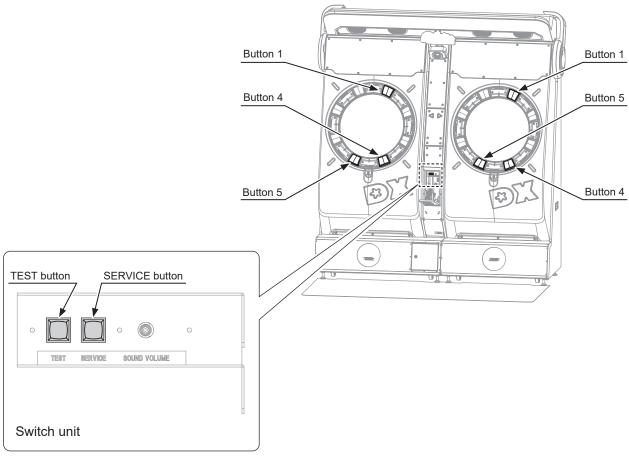
- **Do not start any other work until the installation work is complete.**
- **If a situation not described in this manual persists, contact the office listed in this manual.**
- **Do not turn the power OFF during system update as it may cause malfunction on the ALLS HX2.**

In TEST MODE operation, the TEST button and SERVICE button inside the selector door are used.
In addition, buttons 1, 4 and 5 can be used in the same way as the TEST button and SERVICE button only while in GAME TEST MODE.
Use the SERVICE button or buttons 1, 4 to select an item.
Press the TEST button or button 5 to confirm the selected item or change setting values.
(See "Chapter 2 TEST MODE CONTROLS" in the Service manual.)
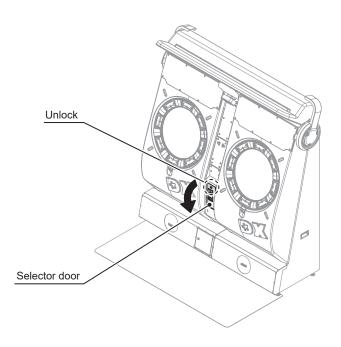
Button 1 — Button 1
Button 4 — Button 5
Button 5 — Button 4

TEST button   SERVICE button

TEST   SERVICE   SOUND VOLUME

Switch unit

6-5-1 One cabinet operation
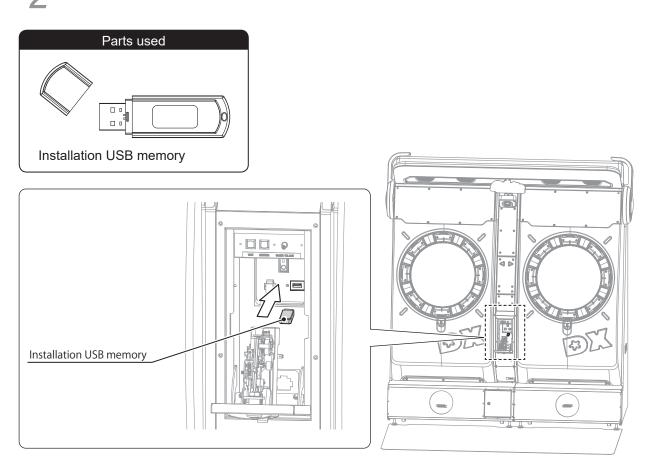
The work time (including software installation) will take approximately 95 minutes.
It may take more time if a system update is necessary (when installing or replacing the ALLS HX2).

1 Unlock the Selector door with the master key and then open it.

Unlock

Selector door

2 Connect the installation USB memory to the USB connector.

Parts used

Installation USB memory

Installation USB memory

3 Turn the main and sub power switches ON.

4 The ALLS HX2 startup image appears on the LCD screen.

5 Software installs automatically and "Installing the game programs. / * ** ** %.." will be displayed. Do not turn the cabinet OFF during the software installation.

[Time required : Approximately 90 minutes]

6 After software installation is complete, the Device check screen is displayed.

```
TOUCH SENSOR(1P)                    CHECK
TOUCH SENSOR(2P)                    CHECK
LED(1P)
LED(2P)
CAMERA
DATA CHECK

CABINET COMM.
SERVER REDUNDANCY CHECK
STANDARD REDUNDANCY CHECK
```

DEVICE CHECK screen

7 When the Device check screen is displayed, press the TEST button to display the GAME TEST MENU screen. (See "Chapter 3 GAME TEST MODE" in the Service manual.)

8 Press the SERVICE button to select "GAME ASSIGNMENTS", and then press the TEST button to display the GAME ASSIGNMENTS screen. (See "3-7 GAME ASSIGNMENTS" in the Service manual.)

9 Press the SERVICE button to select "CABINET-TO-CABINET PLAY", and then press the TEST button to set it to "OFF". (See "3-7 GAME ASSIGNMENTS" in the Service manual.)

10 Press the SERVICE button to select "EXIT", and then press the TEST button to return to the GAME TEST MENU screen.

11 Press the SERVICE button to select "SYSTEM TEST", and then press the TEST button to display the SYSTEM TEST TRANSITION screen. (See "3-15 SYSTEM TEST" in the Service manual.)

12 Press the SERVICE button to select "YES(SYSTEM TEST MODE)", and then press the TEST button to display the SYSTEM TEST MODE screen. (See "Chapter 3 SYSTEM TEST MODE" in the ALLS HX2 Service manual.)

13 Press the SERVICE button to select "SYSTEM CONFIGURATION", and then press the TEST button to display the SYSTEM CONFIGURATION screen. (See "4-2 SYSTEM CONFIGURATION" in the Service manual.)

14 Press the SERVICE button to select "SERVER SETTING", and then press the TEST button to set a "SERVER". (See "4-2 SYSTEM CONFIGURATION" in the Service manual.)

15 Press the SERVICE button to select "EXIT", and then press the TEST button to return to the SYSTEM TEST MENU screen.

16 Press the SERVICE button to select "EXIT" and an error message is displayed.

17 When "Error 0917 : USB Memory remains connected." is displayed, turn the sub power switch OFF, and then disconnect the installation USB memory from the USB connector.

(STOP) IMPORTANT

- **Do not leave the installation USB memory connected, make sure to remove and store it in a safe place.**
- **If the installation USB Memory remains connected, an error message is displayed and game cannot be played.**

18 Turn the sub power switch ON to display the Advertise (waiting for customers) screen.
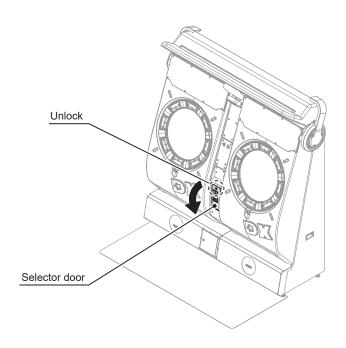
6-5-2 Two cabinet operation

The work time (including software installation) varies depending on the number of cabinets. It will take approximately 180 minutes for two cabinets (one cabinet each server and client machine).
It may take more time if a system update is necessary (when installing or replacing the ALLS HX2).
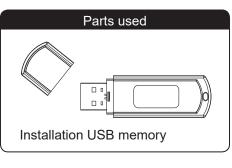
6-5-2-A Server machine

1   Unlock the Selector door with the master key and then open it.

Unlock

Selector door

2   Connect the installation USB memory to the USB connector.

Parts used

Installation USB memory

Installation USB memory

3   Turn the main and sub power switches ON.

4   The ALLS HX2 startup image appears on the LCD screen.

5   Software installs automatically and "Installing the game programs. / * ** ** %.." will be displayed. Do not turn the cabinet OFF during the software installation.

[Time required : Approximately 90 minutes]

6   After software installation is complete, the Device check screen is displayed.

```
TOUCH SENSOR(1P)                    CHECK
TOUCH SENSOR(2P)                    CHECK
LED(1P)
LED(2P)
CAMERA
DATA CHECK

CABINET COMM.
SERVER REDUNDANCY CHECK
STANDARD REDUNDANCY CHECK
```

DEVICE CHECK screen

7   When the Device check screen is displayed, press the TEST button to display the GAME TEST MENU screen. (See "Chapter 3 GAME TEST MODE" in the Service manual.)

8   Press the SERVICE button to select "GAME ASSIGNMENTS", and then press the TEST button to display the GAME ASSIGNMENTS screen. (See "3-7 GAME ASSIGNMENTS" in the Service manual.)

9   Press the SERVICE button to select "CABINET-TO-CABINET PLAY", and then press the TEST button to set it to "ON". (See "3-7 GAME ASSIGNMENTS" in the Service manual.)

10   Press the SERVICE button to select "SET STANDARD IN GROUP", and then press the TEST button to set a "REFERENCE MACHINE". (See "3-7 GAME ASSIGNMENTS" in the Service manual.)

11   Press the SERVICE button to select "EXIT", and then press the TEST button to return to the GAME TEST MENU screen.

12   Press the SERVICE button to select "SYSTEM TEST", and then press the TEST button to display the SYSTEM TEST TRANSITION screen. (See "Chapter 3 SYSTEM TEST MODE" in the ALLS HX2 Service manual.)
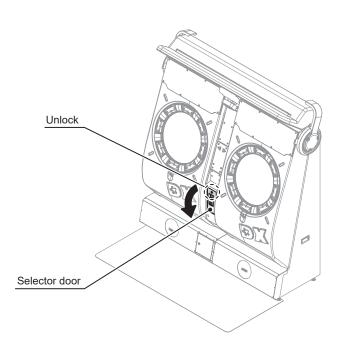
13 Press the SERVICE button to select "YES", and then press the TEST button to display the SYSTEM TEST MODE screen. (See "Chapter 3 SYSTEM TEST MODE" in the ALLS HX2 Service manual.)

14 Press the SERVICE button to select "SYSTEM CONFIGURATION" and then press the TEST button to set it to "SERVER". (See "4-2 SYSTEM CONFIGURATION" in the Service manual.)

15 Press the SERVICE button to select "SERVER SETTING", and then press the TEST button to set it to "SERVER". (See "4-2 SYSTEM CONFIGURATION" in the Service manual.)

16 Press the SERVICE button to select "EXIT", and then press the TEST button to return to the SYSTEM TEST MENU screen.

17 Press the SERVICE button to select "EXIT" and an error message is displayed.

18 When "Error 0917 : USB Memory remains connected." is displayed, turn the sub power switch OFF, and then disconnect the installation USB memory from the USB connector.

(STOP) **IMPORTANT**

- **Do not leave the installation USB memory connected, make sure to remove and store it in a safe place.**
- **If the installation USB Memory remains connected, an error message is displayed and game cannot be played.**

19 Turn the sub power switch ON to display the Advertise (waiting for customers) screen.

6-5-2-B Client machine

1 Unlock the Selector door with the master key and then open it.

Unlock

Selector door

6

2 Turn the main and sub power switches ON.

3 When ALLS logo image appears, press the TEST button to display the SYSTEM TEST MODE screen. (See "Chapter 3 SYSTEM TEST MODE" in the ALLS HX2 Service manual.)

4 When all the menu items are displayed in white, press the SERVICE button to select "SYSTEM CONFIGURATION", and then press the TEST button to display the SYSTEM CONFIGURATION screen.
(See "4-2 SYSTEM CONFIGURATION" in the Service manual.)

5 Press the SERVICE button to select "SERVER SETTING", and then press the TEST button to set a "CLIENT". (See "4-2 SYSTEM CONFIGURATION" in the Service manual.)

6 Press the SERVICE button to select "EXIT", and then press the TEST button to return to the SYSTEM TEST MENU screen.

7 Press the SERVICE button to select "EXIT", and then press the TEST button.

8 When ALLS logo image appears, software installs automatically from the server machine to client machine.

[Time required : Approximately 90 minutes]

9 When software installation or system update is complete, the Advertise screen is displayed.

10 Press the TEST button to display the GAME TEST MENU screen.
(See "Chapter 3 GAME TEST MODE" in the Service manual.)

11 Press the SERVICE button to select "GAME ASSIGNMENTS", and then press the TEST button to display the GAME ASSIGNMENTS screen. (See "3-7 GAME ASSIGNMENTS" in the Service manual.)

12 Press the SERVICE button to select "CABINET-TO-CABINET PLAY", and then press the TEST button to set it to "ON". (See "3-7 GAME ASSIGNMENTS" in the Service manual.)

13 Press the SERVICE button to select "SET STANDARD IN GROUP", and then press the TEST button to set it to "Follow reference machine". (See "3-7 GAME ASSIGNMENTS" in the Service manual.)

14 Press the SERVICE button to select "EXIT", and then press the TEST button to return to the GAME TEST MENU screen.

15 Press the SERVICE button to select "EXIT", and then press the TEST button to return to the Advertise (waiting for customers) screen.

7 SETUP

"Setup" refers to work that is performed to make operation possible.

7-1 SET UP AFTER INSTALLATION

7-1-1 Turning on the power

(STOP) **IMPORTANT**

> **The router remains on-line when only the sub power switch is turned off.**

Turn the power switch ON for the server machine before the client machine. Turning the power ON in any other order may cause the in-store network to not operate correctly.
After turning the power ON, "step ... (applicable numbers)" is displayed and the initialization process begins. After that, the ALLS logo is displayed, device and network tests are performed, and then the Advertise screen (customer waiting) is displayed.
The closing process is executed at the same time as the startup. If the closing process has not finished before the Advertise screen is displayed, "Processing network. Please wait." is displayed. The closing process finishes in about 3 minutes after turning the power ON normally, and gameplay becomes possible.
The time it takes for the closing process to finish varies depending on the conditions of the network. The game cannot be played until the closing process is finished. Do not insert coins, etc.
If an error screen is displayed, refer to "Chapter 5 ERROR DISPLAY" in the Service Manual and take corrective action.

Reboot method

If a cabinet fails verification with an external network (ALL.Net), or if individual rebooting is necessary, reboot that cabinet. When doing this, turn the power OFF and wait 10 seconds before turning it 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.

7-1-2 Software settings

Refer to the chart below, set or adjust each item when necessary.

Setting items

Items	Tasks / Reference	Work Store
Store closing setting	Configure the Store closing setting according to the operating environment. (See "1-8 STORE CLOSING PROCEDURE", "3-10 STORE CLOSING SETTING" in the SM.)	Store dependent
Game setting	Configure the Game setting according to the operating environment. (See "3-7 GAME SETTING" in the SM.)	Store dependent
Coin setting	Change the setting according to the operating environment. (See "Chapter 4 SYSTEM TEST MODE" in the SM.)	Store dependent

Note: "SM" refers to the Service Manual.

7-1-3 Operation check

Refer to the chart below, perform operation check when necessary.

Items of Operation check
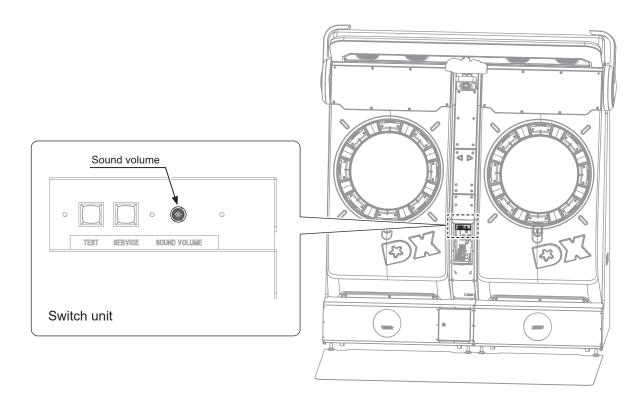
Items	Items to check / Reference
INPUT TEST	Confirm that each input device is working properly. (See "3-2 INPUT TEST" in the SM.)
OUTPUT TEST	Confirm that each output device is working properly. When testing LED, check if each corresponding LED is working with correct colors as well. (See "3-3 OUTPUT TEST" in the SM.)
TOUCH SENSOR TEST	Confirm that the touch sensor is working properly. (See "3-5 TOUCH SENSOR TEST" in the SM.)
CAMERA TEST	Confirm that the Player camera and code reader are working properly. (See "3-6 CAMERA TEST" in the SM.)
Aime CARD READER TEST	Confirm that the touch-type card reader is working properly. (See "3-9 Aime CARD READER TEST" in the SM.)
NETWORK TEST	Confirm that the network is connected properly. (See "3-11 NETWORK TEST" in the SM.)
SPEAKER TEST	Confirm that each sound device emits the sound properly. (See "4-1 SPEAKER TEST" in the SM.)

Note: "SM" refers to the Service Manual.

7-1-4 Volume adjustment

Use the knob in the switch unit to adjust the sound volume.
Also, perform the Headphone volume adjustment on the Play preparation screen (available when the Headphone volume item is selected.) displayed before gameplay. (See "1-4-9 Play preparation" in the Service manual.)
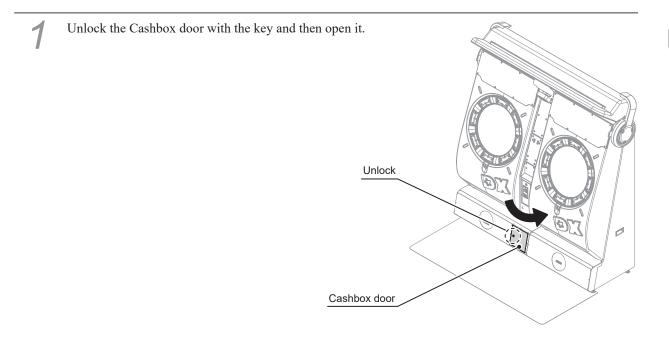
7-2 DAILY SETUP
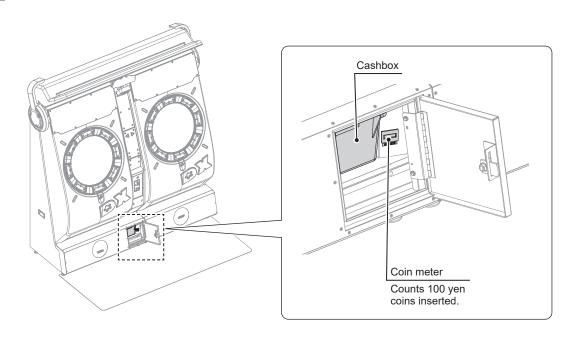
COLLECTING COINS FROM CASHBOX

STOP IMPORTANT

Removing the coin meter circuitry renders the game inoperable.

1 Unlock the Cashbox door with the key and then open it.

Unlock

Cashbox door

2 Pull out the Cashbox and collect coins.

Cashbox

Coin meter
Counts 100 yen coins inserted.

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.

- 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.

- This product is made up of parts that are of large size and heavy weight. Unless work is entrusted to someone with expertise in packaging and transport of such parts, a serious accident might occur.

- 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.

- Never disassemble the unit in ways other than those described in this manual. Doing so can cause accidents such as electric shocks, short circuits or fires.

- When moving the machine, be sure to pull out the plug from the power supply and take off any external cables (power cable, etc.). Moving the machine with cables connected could cause damage to the cables, which in turn could cause an electric shock or fire.

- 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 electric shock, 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.

- 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.

⚠ CAUTION

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.
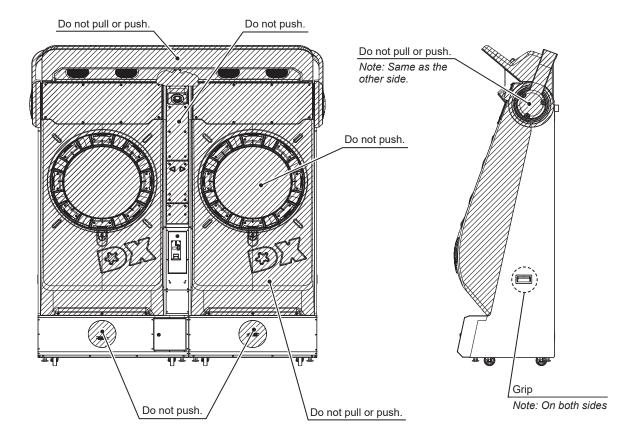
(STOP) IMPORTANT

- **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.**

- **Do not stack and/or lean parts against a wall or other surface indiscriminately, which have been separated or disassembled. The surface of the parts could be damaged or deformed. Significant deformations can result in improper operation and breakdowns.**

When moving the product at where the width is limited, refer to "6-1" to "6-4" and work in reverse order to disassemble to cabinet.
Do not pull or push the shaded areas of the cabinet.

Do not pull or push.

Do not push.

Do not pull or push.
Note: Same as the other side.

Do not push.

Do not push.

Do not pull or push.

Grip
Note: On both sides

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

- The handling of internal parts of the product 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 or 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 there will be fees for professional cleaning services.

- Over time, there is a danger of an electric shock, short circuit or fire being caused by the deterioration of insulation in electrical and electronic equipment. Check that there are no anomalies such as burning odors.

- 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 ALLS HX2 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.

(STOP) IMPORTANT

The parts, software, settings, etc. are different for each ALLS HX2. After cleaning, be sure to return the ALLS HX2 to the cabinet it was taken from. If it is returned to the wrong cabinet, it could lead to malfunctions or other problems.

Periodic inspection

Period	Items	Description	Reference
As appropriate	Cabinet surfaces	Cleaning	As below
	Player camera	Cleaning	14-1 (P.107)
	Electronic/electrical parts	Inspection	Previous page (P.66)
	Touch sensor surface	Cleaning surface	11-1-1 (P.73)
Daily	Cabinet	Confirm that adjusters contact floor	4-1 (P.12)
	Touch sensor	Inspection	SM 3-5
Monthly	Button	Check each input device	SM 3-2
	Speaker, woofer	Sound volume inspection	7-1-4 (P.62)
		Speaker inspection	SM 4-1
	Coin selector	Cleaning	13-3 (P.105)
		Coin insertion test	13-1 (P.102)
	LED	Output test	SM 3-3
	Touch-type card reader	Read test	SM 3-9
	Headphone jack	Output test	SM 4-1
Every three months	Button	Apply grease	12-2 (P.98)
One year	ALLS HX2	Cleaning	16-2 (P.120)
	Power plug	Inspection, cleaning	Previous page (P.66)
	LCD	Confirm the adjustment	11-2 (P.79)
	Cabinet interior	Cleaning	Previous page (P.66)

Note: "SM" refers to the Service Manual provided with the cabinet.

Cleaning the cabinet surface

When the cabinet surfaces become dirty, wet a soft cloth with water or lukewarm water, wring it out thoroughly, and clean the surfaces. 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).
Also, some general-purpose household, kitchen, and furniture cleaning products may contain strong solvents that degrade plastic parts, coatings, and print.

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 improvement can be noted after the troubleshooting steps given in this manual have been taken, do not take any countermeasures 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 or result in permanent damages.**

- **If a circuit protector is activated, resolve the root cause of the problem before re-engaging the circuit breaker. If the unit is used before the root cause is resolved there could be excessive heat generation or a fire depending on the root cause.**

(STOP) IMPORTANT

- **If an error occurs, identify and resolve the root cause of the problem before starting operation again. If left alone and operation is resumed, it could cause more frequent errors or damage critical parts. (See "Chaper 5 ERROR DISPLAY", in the Service manual.)**

- **Static electricity from your body may damage some electronic devices on the IC boards. Before handling the IC boards, touch a grounded metallic surface so that any static electricity is 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.)

Troubleshooting table
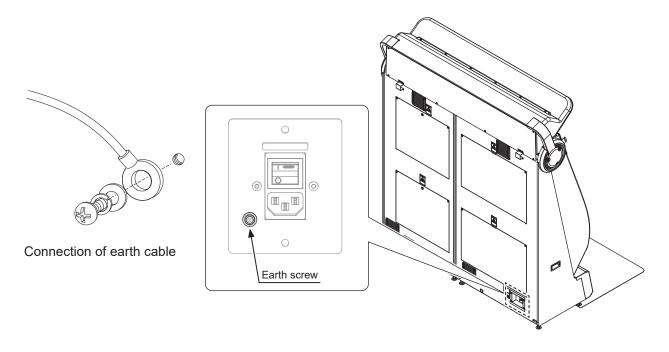
Problems	Cause	Measures
With power switch ON, no activation.	Power is not supplied.	Insert the power plug all the way into the outlet. [See 6-4 (P.49).]
	Either main or sub power switch is OFF.	Turn both switches ON. [See 6-4 (P.49).]
	Power supply/voltage is not correct.	Provide correct power supply voltage. [See 1-1 (P.1), 3-1 (P.10).]
	The circuit protector functioned due to the momentary overload.	Replace the fuse after removing the cause of the overload. [See next page.]
There is no sound from headphone.	Headphone jack is damaged.	Replace the damaged headphone jack. [See 11-5 (P.93).]
	ALLS HX2 or amplifier malfunctioning.	Check if the sound is emitted in TEST MODE. (See SM "4-1 SPEAKER TEST.") If the problem is still not solved, contact the office listed in this manual or the point-of-purchase for this product.
There is no sound from speaker or woofer.	Volume not properly adjusted.	Adjust the sound volume in the Switch unit. [See 7-1-4 (P.62).]
	Settings are incorrect.	Check the sound output settings for Advertising Mode (awaiting customers). (See SM "3-7 GAME ASSIGNMENTS.")
	ALLS HX2, amplifier and speaker malfunctioning.	Check if the sound is emitted in TEST MODE. (See SM "4-1 SPEAKER TEST.") If the problem is still not solved, contact the office listed in this manual or the point-of-purchase for this product.
Sound is emitted but no image appears on the monitor .	Monitor malfunctioning	Replace the LCD. [See 11-3 (P.87).]
	ALLS HX2 malfunctioning	Replace the ALLS HX2. [See 16-3 (P.122).]
Monitor colors and/or brightness are strange.	Screen adjustments are inappropriate.	Adjust settings as appropriate. [See 11-2-2 (P.83).]
LED does not illuminate.	LED malfunctioning	Check if the LED illuminates properly in TEST MODE. (See SM "3-3 OUTPUT TEST.") If the problem is still not solved, contact the office listed in this manual or the point-of-purchase for this product.
Buttons do not respond as intended.	Run out of grease	Apply grease. [See 12-2 (P.98).]
	Button malfunctioning.	Replace the button. [See 12-1 (P.95).]
Touch-type card reader failure.	Using invalid card	Check if the card can be read in TEST MODE. (See SM "3-9 Aime CARD READER TEST.")
	Touch-type card reader malfunctioning.	Contact the office listed in this manual or the point-of-purchase for this product.
Touch sensor does not operate.	Touch sensor malfunctioning.	Replace the touch sensor. [See 11-4 (P.90).]
Touch sensor does not operate correctly.	The surface of touch sensor is dirty.	Clean the surface. [See 11-1 (P.73).]
	Touch sensor has not been adjusted appropriately.	Configure settings in TEST MODE. (See SM "3-5 TOUCH SENSOR TEST.")

10

TROUBLESHOOTING

Problems	Cause	Measures
Inserted coins are returned.	Operating with store closing setting or undergoing server maintenance.	While closed or during a certain period of time before the server is shut down, restrict credits and return inserted coins. (See SM "3-10 CLOSE SETTING".)
Music distribution day	**New music cannot be played on the day that it is distributed.**	Restart the machine with the network connection connected. [See 7-1-1 (P.61).]
No image appears on the camera monitor.	**Camera monitor malfunctioning.**	Perform the Camera test in TEST MODE. (See SM "3-6 CAMERA TEST.") If the problem is still not solved, replace the Player camera. [See 14-2 (P.108).]
Cannot conduct network play.	Settings are incorrect.	Configure settings correctly. (See SM "3-7 GAME ASSIGNMENTS.")
	LAN cable is not fully connected. LAN cable connection failure	Correct connection of LAN cable. [See 6-3 (P.39).]
	LAN cable is damaged.	Replace the LAN cable. [See 6-3 (P.39).]
	Undergoing server maintenance, during store closing time or network failure	Check the store closing time and server maintenance time. Network play cannot be conducted from 30 minutes before server is shut down until maintenance is complete. (See SM "1-7 SERVER MAINTENANCE", "1-8 STORE CLOSING PROCEDURES".)
	Router malfunctioning.	Contact the office listed in this manual or the point-of-purchase for this product.
ALLS HX2 logo remains and the advertise mode screen does not appear. (Error displayed)	ALLS HX2 setting failure or malfunctioning	Refer to the ALLS HX2 Service Manual. (See "Chapter 4 ERROR MESSAGES" in the ALLS HX2 SM.) If the ALLS HX2 is malfunctioning, replace it. [See 16-3 (P.122).]

Note: "SM" refers to the Service Manual provided with the cabinet.

10

TROUBLESHOOTING

Earth grounding

If the touch sensor controls are not satisfactory, connect the AC unit ground screw and grounding mechanism with the supplied ground wire, and then ground it. When attaching the earth, remove the earth screw of the AC unit, pass it through the round terminal of the earth cable, and then fasten it. Pass a screw through a spring washer and flat washer.

Connection of earth cable

Earth screw

10

TROUBLESHOOTING

11 LCD, TOUCH SENSOR, HEADPHONE JACK

In this chapter, instructions are provided with Cabinet 1P and tasks can be done for Cabinet 2P following the same steps.

11

<div style="border:1px solid black; padding:1em;">

⚠ 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 have entered the cabinet.**
  - **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.**

</div>

<div style="border:1px solid black; padding:1em;">

⚠ 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.**

</div>

11-1 CLEANING
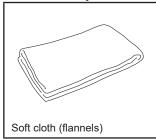
(STOP) IMPORTANT
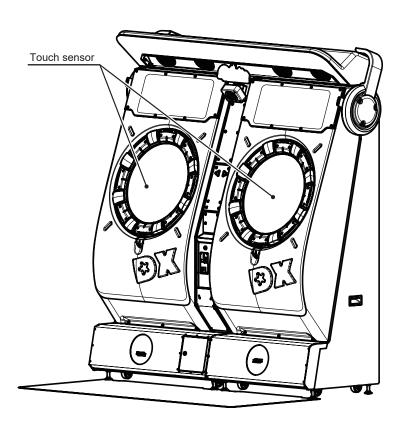
- **Remove smears by using a dry, soft cloth (e.g. flannels). Do not use abrasive materials. If there is a lot of dirt, wet a cloth with water or lukewarm water, wring it out thoroughly, and wipe the surface. Never use chemical detergents or other chemicals.**

- **Do not rub or scratch the face of the touch screen with hard items such as scrub brushes.**

11-1-1 Cleaning the touch sensor surface

Tools necessary for work

Soft cloth (flannels)
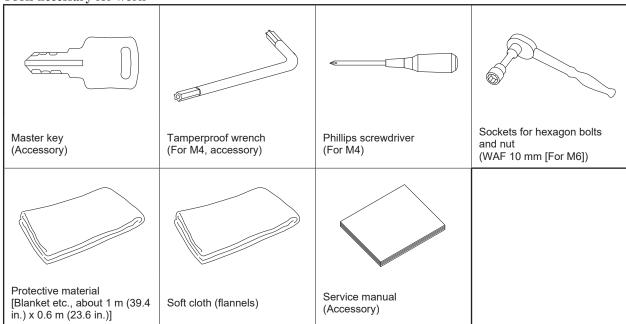
Clean the touch sensor surface on a regular basis.

Touch sensor

11
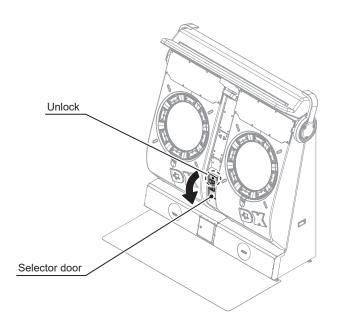
11-1-2 Cleaning the touch sensor (back side) and LCD (front side)

Tools necessary for work

Master key (Accessory)	Tamperproof wrench (For M4, accessory)	Phillips screwdriver (For M4)	Sockets for hexagon bolts and nut (WAF 10 mm [For M6])
Protective material [Blanket etc., about 1 m (39.4 in.) x 0.6 m (23.6 in.)]	Soft cloth (flannels)	Service manual (Accessory)	

In this chapter, instructions are provided with Cabinet 1P and Cabinet 2P can also be cleaned following the same steps.

1 Unlock the Selector door with the master key and then open it.

Unlock

Selector door

2 Turn the sub power switch OFF.
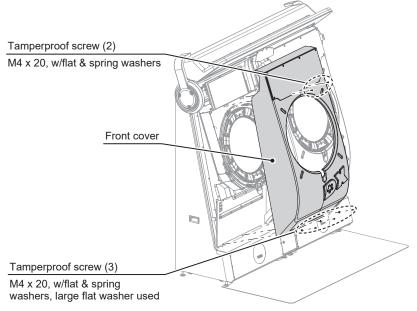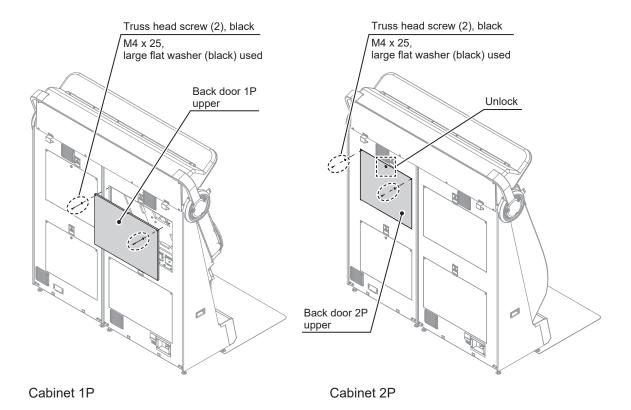
3 Remove five tamperproof screws and take off the Front cover. When doing this, be careful not to damage the LED board, LED tape and cables on the cabinet side.
When reattaching the front cover, lightly fasten the five tamperproof screws with your fingers, and then use a tool to fully tighten them.

Tamperproof screw (2)

M4 x 20, w/flat & spring washers

Front cover

Tamperproof screw (3)

M4 x 20, w/flat & spring washers, large flat washer used
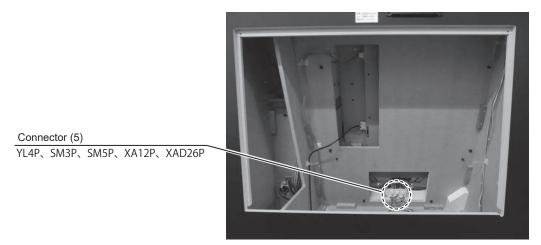
4 Remove two truss head screws and take off Back door 1P (upper).
For Cabinet 2P, remove two truss head screws and unlock Back door 2P (upper) with master key, and then take it off.

Truss head screw (2), black

M4 x 25, large flat washer (black) used

Back door 1P upper

Truss head screw (2), black

M4 x 25, large flat washer (black) used

Unlock

Back door 2P upper

Cabinet 1P

Cabinet 2P

11
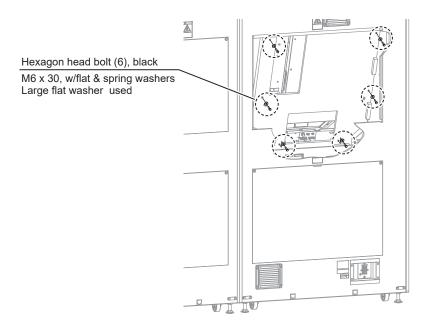
5 Disconnect five connectors.

Connector (5)
YL4P、SM3P、SM5P、XA12P、XAD26P

Back of the cabinet (inside)

6 Remove six hexagon head bolts.
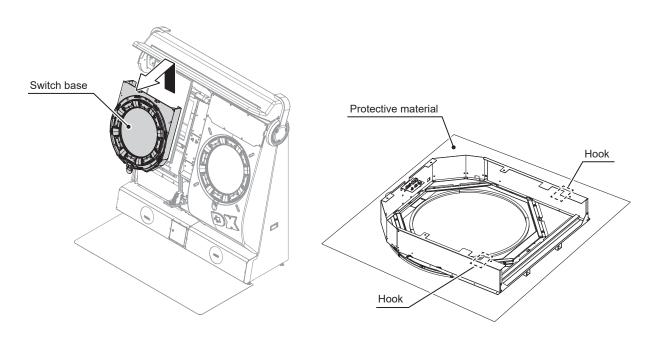
Hexagon head bolt (6), black

M6 x 30, w/flat & spring washers
Large flat washer used
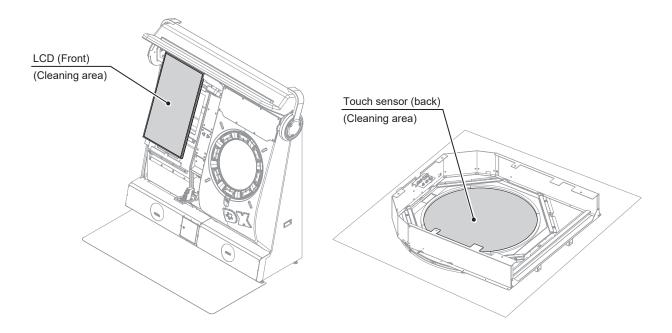
7 Lay protective material on the floor.
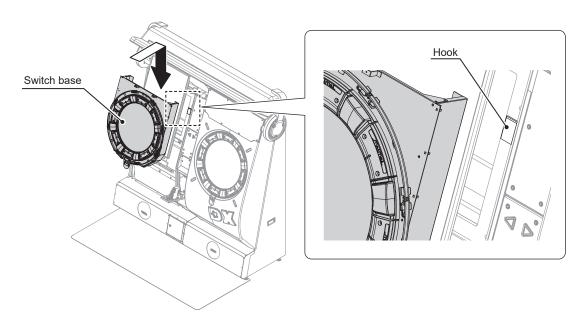
8 Support the Switch base and take it off with at least two people, and then place it on the protective material while the touch sensor side is on the bottom.

Switch base

Protective material

Hook

Hook

9 Clean the front of the LCD and back of the touch sensor.

11

LCD (Front)
(Cleaning area)

Touch sensor (back)
(Cleaning area)

10 Attach the Switch base to the cabinet. When doing this, be careful of the following points.
- Align the tabs with the grooves on the bottom rear of the switch base and insert it into place, and then hook the edges onto the hooks of the cabinet.
- Do not get cables caught.
- Do not get hands caught.

Switch base

Hook

11

11 Refer to Steps from 3 to 6 and work in reverse order.

12 Turn the sub power switch ON.

13 Check the operation of the touch sensor. (See "3-5 TOUCH SENSOR TEST" in the Service manual.)

11-2 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 undesignated places 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.

(STOP) 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.

11-2-1 Accessing the Adjustment board
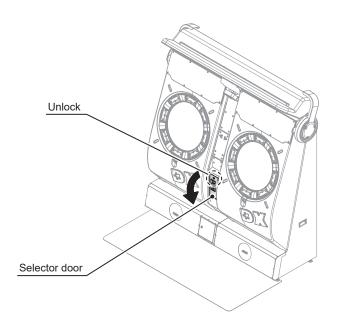
In this chapter, instructions are provided with Cabinet 1P and work on Cabinet 2P with the same steps.

Tools necessary for work
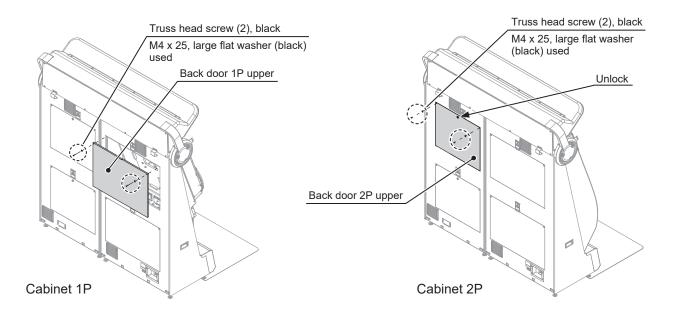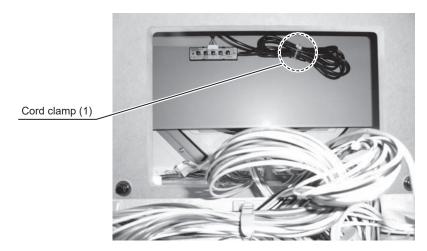
Master key (Accessory)	Phillips screwdriver (For M4)

---

1 Unlock the Selector door with the master key and then open it.

Unlock

Selector door

---

2 Turn the sub power switch OFF.

3 Remove the two truss head screws and take off Back door 1P upper. (Back door 2P upper should be taken off by removing the two truss head screws and unlocking it with the master key.)

Truss head screw (2), black
M4 x 25, large flat washer (black) used
Back door 1P upper

Truss head screw (2), black
M4 x 25, large flat washer (black) used
Unlock
Back door 2P upper

Cabinet 1P

Cabinet 2P

4 Undo one cord clamp.

Cord clamp (1)

Back of cabinet (inside)
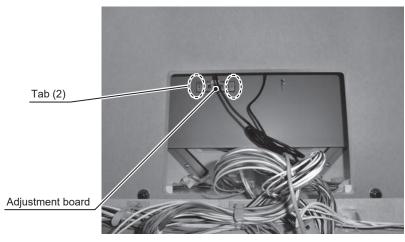
5 Press two tabs on the adjustment board and take off the adjustment board from back of the LCD.

Tab (2)

Adjustment board

Back of cabinet (inside)

11
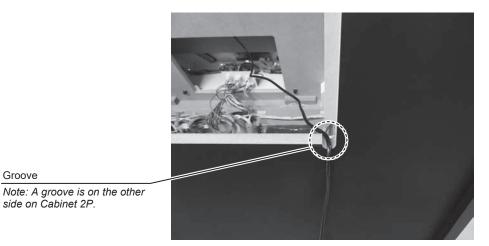
6 Pass the cables of the adjustment board through the groove in the opening where the Back door upper was taken off.
Note: When viewed from the rear, Cabinet 1P has a groove at the bottom right of the opening, and Cabinet 2P has a groove at the bottom left of the opening.

Groove
Note: A groove is on the other side on Cabinet 2P.
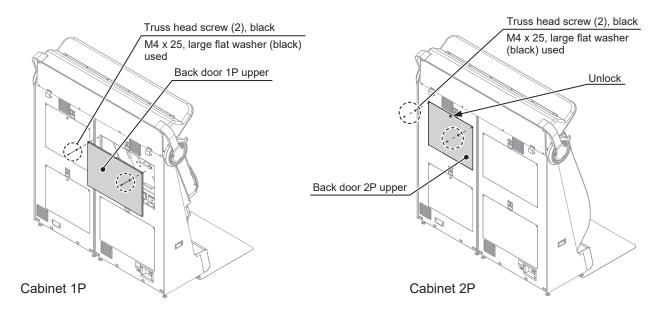
Back of cabinet

7 Attach Back door 1P upper with the two truss head screws. When doing this, be careful not to get cables caught.
When working on Cabinet 2P, attach Back door 2P upper, lock it with the master key and then secure it with the two truss head screws.

11

Truss head screw (2), black
M4 x 25, large flat washer (black) used
Back door 1P upper

Truss head screw (2), black
M4 x 25, large flat washer (black) used
Unlock

Back door 2P upper

Cabinet 1P

Cabinet 2P
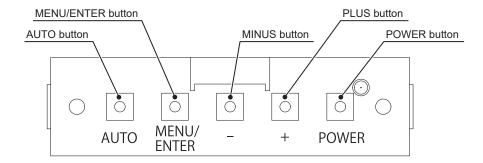
8 Turn the sub power switch ON and make adjustments on the LCD.

11-2-2 Adjustment board controls

This is an explanation of the basic operation methods to use when making the various adjustments.

AUTO	Cancel
MENU/ENTER	Turns OSD MENU display on / Confirms selected item / Switches pages
− (MINUS)	Decreases the value of the selected setting / Moves upward / Turns CONTRAST screen on
＋ (PLUS)	Increases the value of the selected setting / Moves downward / Turns BRIGHTNESS screen on
POWER	This button is not used.

1 Press the MENU/ENTER button to display the OSD MENU screen.

2 Use the PLUS/MINUS buttons to select the item you wish to adjust or set, and then press the MENU/ENTER button to confirm your selection. The selection bar will turn yellow.

3 Adjust the values of the various items using the PLUS/MINUS buttons.

4 Following adjustment/setting, press the AUTO button to leave the OSD MENU screen and the settings will be saved.

Menu items

LUMINANCE	Adjust contrast and brightness of screen.
Contrast	Adjust contrast of screen. (Default setting: 50, Setting values: 0 - 100)
Brightness	Adjust brightness of screen. (Default setting: 100, Setting values: 0 - 100)
IMAGE ADJUST	This item is not used.
COLOR ADJUST	Adjust strength of color on screen.
Color Temp	Adjust color temperature on screen. (Set this item to 6500.)
Color Adjust	This item is not used.
SETUP MENU	Perform adjustments related to OSD MENU screen .
Language	Set language used on OSD MENU screen. (Use English.)
OSD H Position	Adjust horizontal position (H) of the OSD MENU screen. (Default setting: 50, Setting values: 0 - 100)
OSD V Position	Adjust vertical position (V) of the OSD MENU screen. (Default setting: 50, Setting values: 0 - 100)
OSD Timer	This item is not used.
OSD Transparency	Adjust the depth of color of OSD MENU screen. (Default setting: 0, Setting values: 0 - 100)
RECALL	This item is not used.
INFORMATION	This item is not used.
INPUT SELECT	Select input signal. (Use "Auto Search".)

11
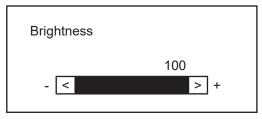
Configuration samples

As an example, here is how to adjust brightness (Brightness), OSD horizontal position (OSD H Position). Use these examples as reference when adjusting other settings.

Adjusting the Brightness

1 Press the PLUS button to display the BRIGHTNESS screen.

Brightness

100

- < ■■■■■■■■ > +

BRIGHTNESS screen

2 Use the PLUS/MINUS buttons to adjust the brightness value.

3 When finished, press the AUTO button to close the BRIGHTNESS screen.

■Adjusting OSD H Position
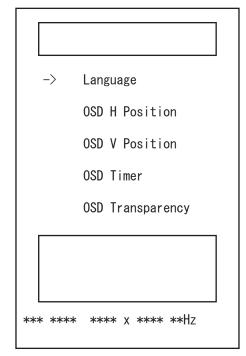
1   Press "MENU/ENTER " button, and the OSD MENU
screen will be displayed.

```
            ┌─────────────────────┐
            │                     │
            └─────────────────────┘

  ->      LUMINANCE

          IMAGE ADJUST

          COLOR ADJUST

          SETUP MENU

          RECALL

          INFORMATION

          INPUT SELECT


  *** ****   **** x **** **Hz
```
OSD MENU screen
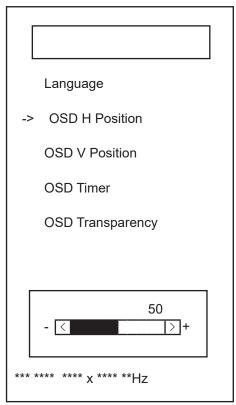
2   Use the " + ", " - " button and select "SETUP MENU"
and then press the "MENU/ENTER" button to display the
SETUP MENU screen.

```
            ┌─────────────────────┐
            │                     │
            └─────────────────────┘

  ->      Language

          OSD H Position

          OSD V Position

          OSD Timer

          OSD Transparency

            ┌─────────────────────┐
            │                     │
            │                     │
            └─────────────────────┘
  *** ****   **** x **** **Hz
```
SETUP MENU screen

3 Use the " + ", " - " button and select "OSD H Position" and then press the "MENU/ENTER" button to display the OSD H Position screen.

Language

->   OSD H Position

OSD V Position

OSD Timer

OSD Transparency

50

- $\langle$ ■■■ $\rangle$ +

*** **** **** x **** **Hz

OSD H POSITION screen

4 Press the " + ", " - " button to adjust the setting value.

5 Following adjustment, press the AUTO button three times to close the OSD MENU screen.

11-3 REPLACING 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.**

- **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

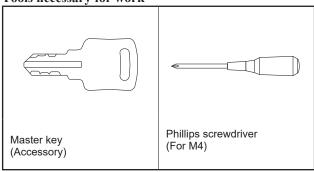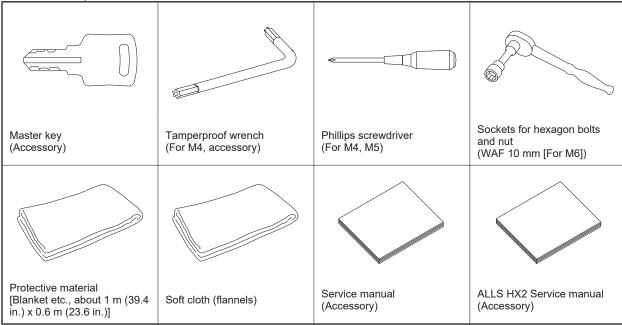- **When opening/closing or attaching/removing doors or other parts, be careful that your hands or fingers do not get caught in anything.**

- **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.**

- **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 careful when handling parts made of glass. Do not lean them up against the wall or subject them to impact. If they break, it may result in fragments or cracks that could cause accidental injury.**

- **Be careful when handling parts made of glass. Do not lean them against a wall or subject them to impact. The parts may break, resulting in fragments or cracks that could cause accidental injury.**

11

 STOP IMPORTANT

- **Re-adjust the touch sensor after replacing the LCD. Failing to do so could cause disagreements with players who are unable to play as intended.**

- **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.**

Tools necessary for work

Master key (Accessory)	Tamperproof wrench (For M4, accessory)	Phillips screwdriver (For M4, M5)	Sockets for hexagon bolts and nut (WAF 10 mm [For M6])
Protective material [Blanket etc., about 1 m (39.4 in.) x 0.6 m (23.6 in.)]	Soft cloth (flannels)	Service manual (Accessory)	ALLS HX2 Service manual (Accessory)

1 Turn the main power switch OFF.
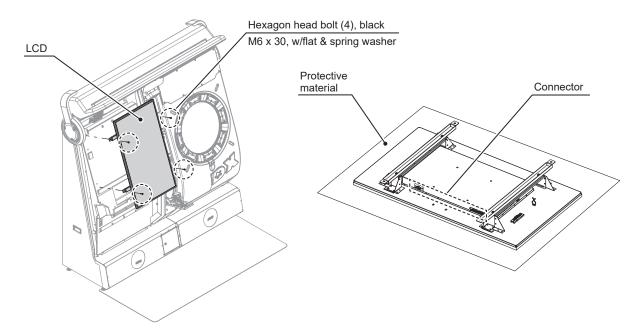
2 Refer to Steps 3 to 5 in "11-1-2" and work in the same order.

3 Disconnect two connectors. When doing this, disconnect the DVI connector after loosening the fixing screw.

Connector (1)
VL3P

LCD

Connector (1)
DVI

Back of cabinet (inside)
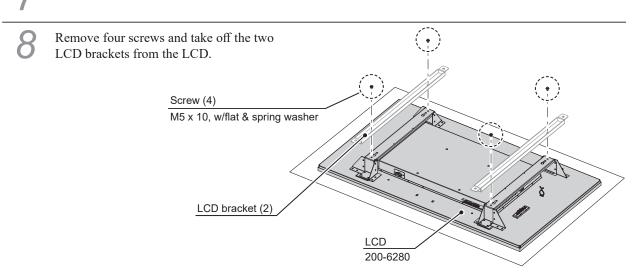
4 Refer to Steps 6 to 8 in "11-1-2" and work in the same order.

5 Lay protective material on the floor.

6 Remove four hexagon head bolts and take off the LCD. When doing this, support the LCD with at least two people and put it on the protective material facing the screen down.
When attaching, make sure that the connector comes to the right as viewed from the front of the cabinet.

LCD

Hexagon head bolt (4), black
M6 x 30, w/flat & spring washer

Protective material

Connector
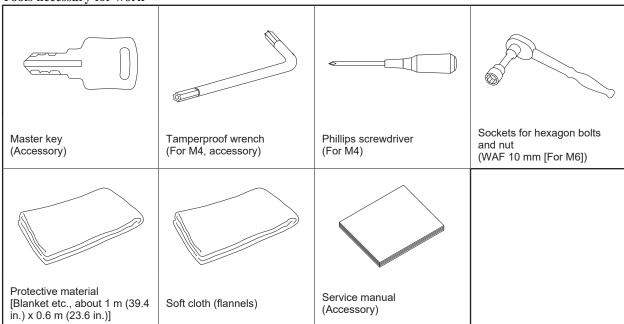
7 Take off the ferrite core attached to the LCD adjustment board cable.

8 Remove four screws and take off the two LCD brackets from the LCD.

Screw (4)
M5 x 10, w/flat & spring washer

LCD bracket (2)

LCD
200-6280
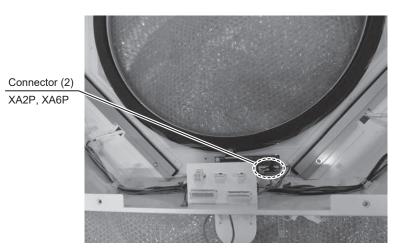
9 Refer to Steps 2 to 7 and work in reverse order to attach the replacement LCD. When doing this, rotate the ferrite core two times toward the LCD board cable side.

10 Turn the main power switch ON.

11 Adjust the screen position. (See "3-4 MONITOR TEST" in the Service manual.)

12 Adjust the screen colors. (See "3-4 MONITOR TEST" in the ALLS HX2 Service manual.)

11

11-4 REPLACING THE TOUCH SENSOR UNIT

Tools necessary for work
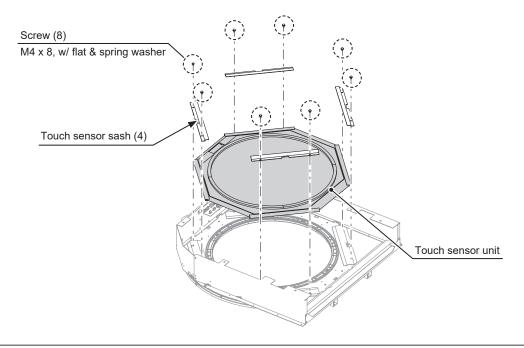
Master key (Accessory)	Tamperproof wrench (For M4, accessory)	Phillips screwdriver (For M4)	Sockets for hexagon bolts and nut (WAF 10 mm [For M6])
Protective material [Blanket etc., about 1 m (39.4 in.) x 0.6 m (23.6 in.)]	Soft cloth (flannels)	Service manual (Accessory)	

1 Turn the main power switch OFF.

2 Refer to Steps 3 to 8 in "11-1-2" and work in the same order.

3 Disconnect two connectors.

Connector (2)
XA2P, XA6P

Switch base
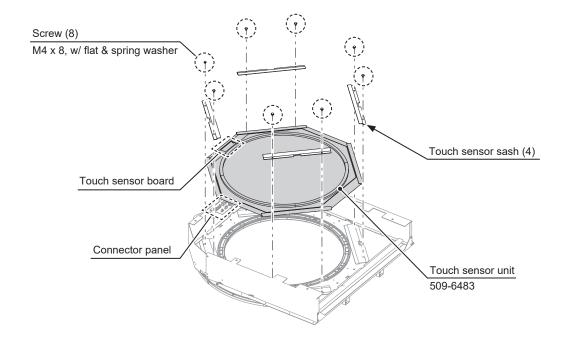
4   Remove eight screws and take off the four Touch sensor sashes and Touch sensor unit.

Screw (8)

M4 x 8, w/ flat & spring washer

Touch sensor sash (4)

Touch sensor unit
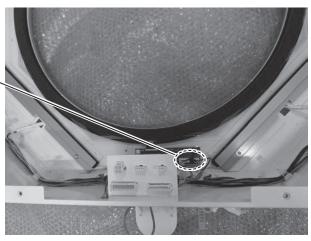
5   Attach the four Touch sensor sashes and replacement Touch sensor unit with eight screws. When doing this, make the Touch sensor board comes to the Control panel side.

11

Screw (8)

M4 x 8, w/ flat & spring washer

Touch sensor sash (4)

Touch sensor board

Connector panel

Touch sensor unit
509-6483

6   Connect two connectors.

Connector (2)
XA2P, XA6P

Switch base
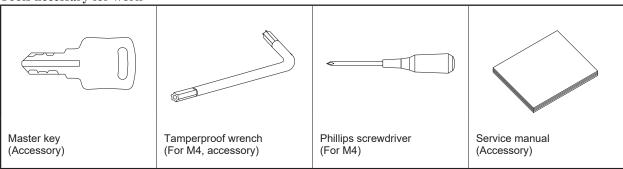
7   Refer to Steps 3 to 8 in "11-1-2" and work in reverse order.

8   Turn the main power switch ON.
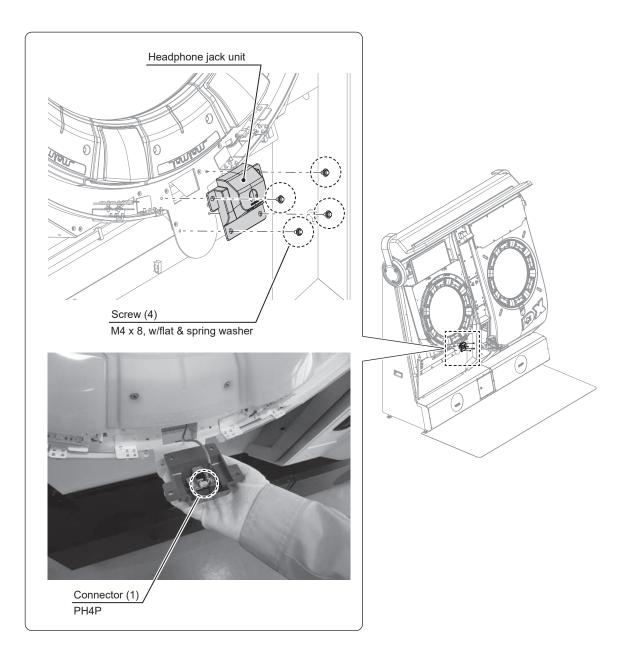
9   Check the operation of the Touch sensor. (See "3-5 TOUCH SENSOR TEST" in the Service manual.)

11-5 REPLACING THE HEADPHONE JACK

Tools necessary for work

Master key (Accessory)	Tamperproof wrench (For M4, accessory)	Phillips screwdriver (For M4)	Service manual (Accessory)
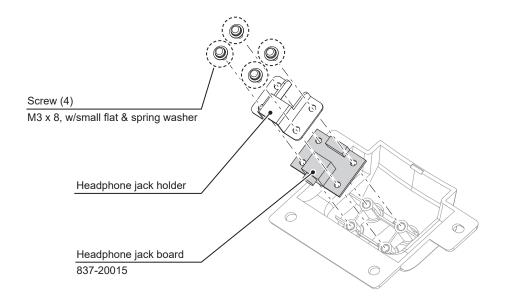
1   Refer to Steps 1 to 3 in "11-1-2" and work in the same order.

2   Remove four screws and take off the headphone jack unit, then disconnect a connector. When doing this, be careful not to pull too hard on the wire connected to the headphone jack unit.

Headphone jack unit

Screw (4)
M4 x 8, w/flat & spring washer

Connector (1)
PH4P

11
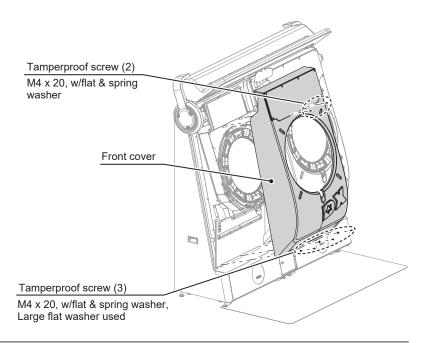
3 Remove four screws and take off the headphone jack holder and headphone jack board.

Screw (4)
M3 x 8, w/small flat & spring washer

Headphone jack holder

Headphone jack board
837-20015

4 Refer to Steps 2 and 3 and work in reverse order to attach the headphone jack board and reassemble the cabinet.

5 Attach the Front cover with five tamperproof screws. When doing this, be careful not to damage the LED board on the cabinet side, LED tape and cables.

Tamperproof screw (2)
M4 x 20, w/flat & spring washer

Front cover

Tamperproof screw (3)
M4 x 20, w/flat & spring washer,
Large flat washer used

6 Turn the sub power switch ON.

7 Connect a headphone to the headphone jack and check if the sound emits properly.
(See "4-1 SPEAKER TEST" in the Service manual.)

12 BUTTON
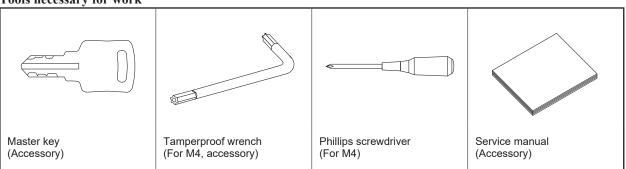
In this chapter, instructions are provided with Button 1 on Cabinet 1P and work on other buttons with the same steps.
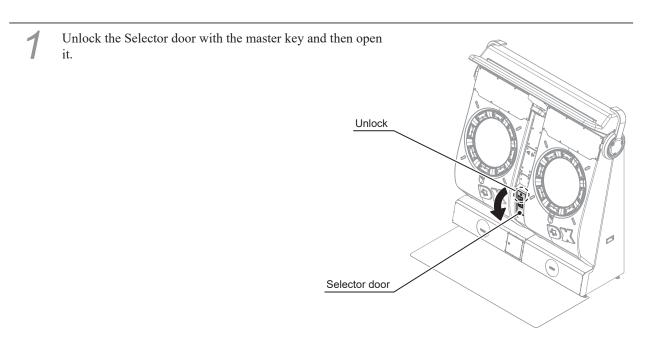
12-1 REPLACING THE BUTTON

<div style="border:1px solid black; padding:10px;">

⚠ 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.**

</div>

Tools necessary for work

Master key (Accessory)	Tamperproof wrench (For M4, accessory)	Phillips screwdriver (For M4)	Service manual (Accessory)

1   Unlock the Selector door with the master key and then open it.

Unlock

Selector door

2   Turn the sub power switch OFF.
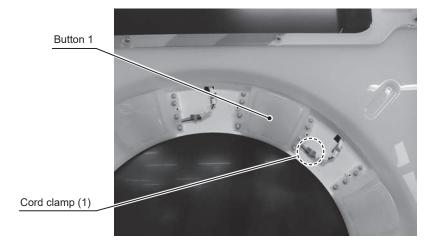
3 Remove four tamperproof screws and take off the Switch covers on both sides of Button 1. When reattaching, be careful not to get the cables caught.

Switch cover (2)   Button 1

Tamperproof screw (4)
M4 x 10 w/flat & spring washer

4 Undo one cord clamp.

12

Button 1

Cord clamp (1)

5 Disconnect one connector.

Button 1

Connector (1)
SM3P
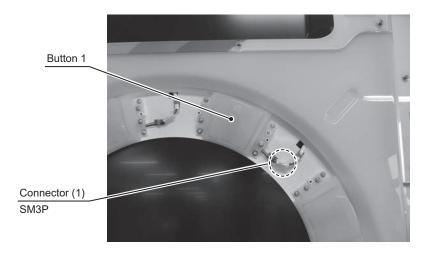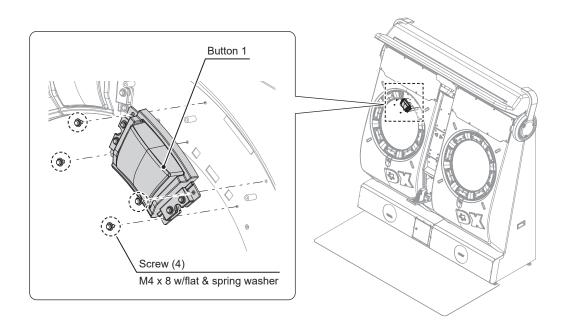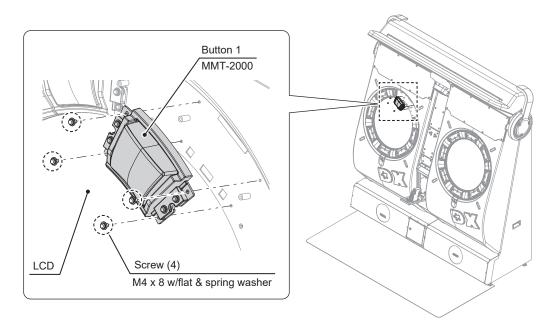
6   Remove four screws and take off Button 1.

Button 1

Screw (4)
M4 x 8 w/flat & spring washer

7   Attach replacement Button 1 with four screws. When doing this, push Button 1 to center of the LCD and then secure it.

Button 1
MMT-2000

LCD   Screw (4)
M4 x 8 w/flat & spring washer

8   Refer to Steps 3 to 5 and work in reverse order to attach Button 1 and reassemble the cabinet.

9   Turn the sub power switch ON.

10 Perform if the button operate normally. (See "3-2 INPUT TEST" in the Service manual.)

12-2 BUTTON GREASING
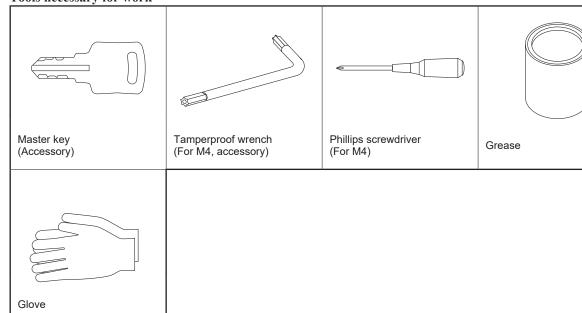
⚠ CAUTION

- Grease is harmful if inhaled so make sure to use it in a well-ventilated area.

- Grease may cause inflammation upon contact with eyes so wear glasses or other protection. If grease gets into contact with eyes, wash the affected area thoroughly with clean water for at least 15 minutes and consult a doctor.

- Grease may cause inflammation upon contact with skin. Use gloves for protection, and be careful not to let the grease come in contact with bare skin. If grease gets into contact with skin, wash thoroughly with soap and water.

(STOP) IMPORTANT

- Be sure to use the designated grease. Using undesignated grease can cause parts damage.

- Do not apply grease to locations other than as specified. Doing so may create a risk of operational problems and deterioration of parts.

- The designated periods for greasing serve only as a guide. Whenever there are squeaks or other anomalies, apply grease at designated locations.

Tools necessary for work

Master key (Accessory)	Tamperproof wrench (For M4, accessory)	Phillips screwdriver (For M4)	Grease
Glove			
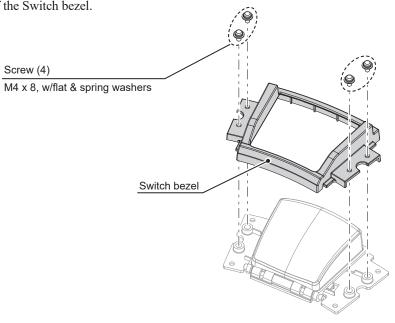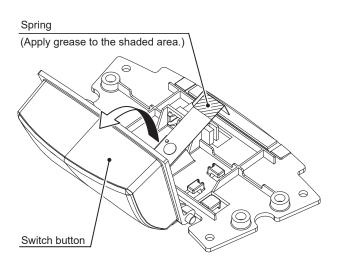
Grease up the following parts once every three months.
Use SOLVEST 248 (PART No.090-0070) grease.
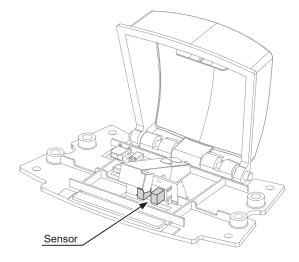
1   Refer to Steps from 1 to 6 in "12-1" and work in the same order.

2   Remove four screws and take off the Switch bezel.

Screw (4)

M4 x 8, w/flat & spring washers

Switch bezel
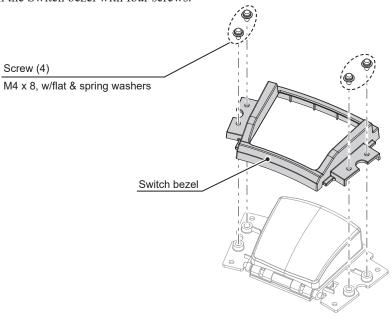
3   Open the Switch button and apply grease to the spring evenly. When doing this, be careful not to apply grease too much and make sure the grease is not applied to the sensor part. If grease is applied to the sensor, wipe it away with a soft cloth.

Spring

(Apply grease to the shaded area.)

Switch button

Sensor

12
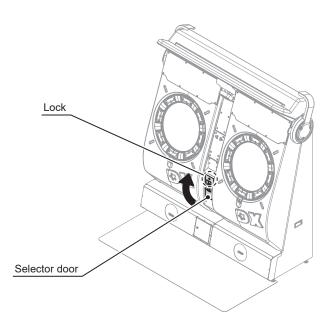
4 Close the Switch button and attach the Switch bezel with four screws.

Screw (4)
M4 x 8, w/flat & spring washers

Switch bezel

5 Refer to Steps 3 to 6 in "12-1" and work in reverse order.

6 Close the Selector door and lock it with the master key.

Lock

Selector door

13 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.

- Be careful when handling the coin selector's coin blocker solenoid, as it will still be hot immediately after the power has been turned OFF.
  Also, wait until the coin blocker solenoid has cooled completely before working on it.

Coin blocker solenoid
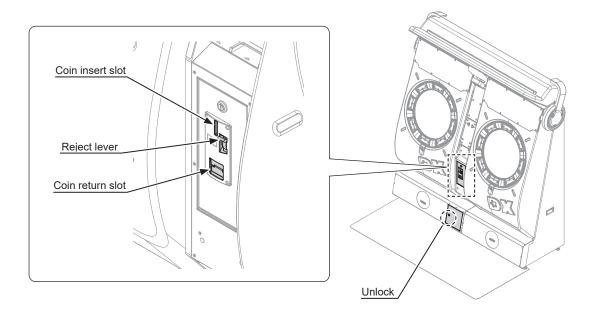
STOP IMPORTANT
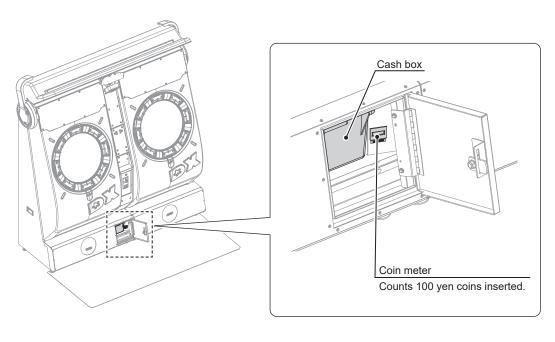
- Use a soft cloth to clean the coin selector. If the coin selector is particularly dirty, wet a cloth with cold or lukewarm water, wring it out and wipe the selector clean. Never use chemical detergents or other chemicals.

- 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 handing 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 gate past 90 degrees. Doing so will put excessive force on the hinge springs and damage the door.

- Never disassemble the unit in ways other than those described in this manual.

13-1 COIN INSERTION TEST

Once a month, perform the following checks and perform a test on the coin blocker in TEST MODE.
(See "3-3 OUTPUT TEST" in the Service Manual.)
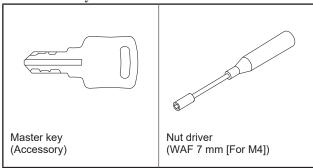
□ Does the coin meter count properly?
□ Do coins drop into the Cash box correctly?
□ Are coins rejected when inserted while holding down the reject lever?
□ Are extra coins and incorrect coins properly returned?

Coin insert slot

Reject lever

Coin return slot

Unlock

Cash box

Coin meter
Counts 100 yen coins inserted.

13
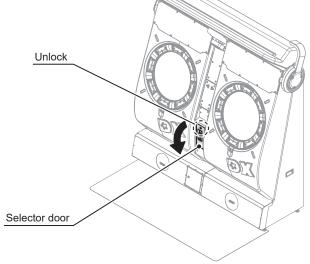
13-2 REMOVING THE COIN SELECTOR
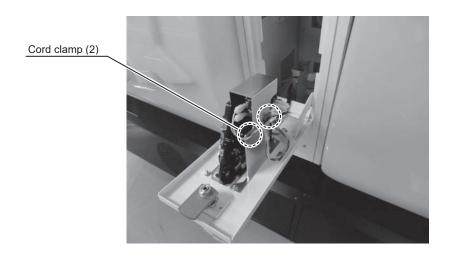
Tools necessary for work

Master key (Accessory)	Nut driver (WAF 7 mm [For M4])

---

1 Unlock the Selector door with the master key and then open it.

Unlock

Selector door

---
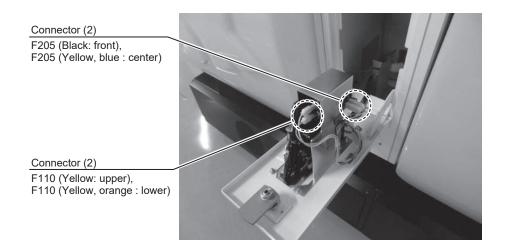
2 Turn the sub power switch OFF.

---

3 Undo two cord clamps.

Cord clamp (2)
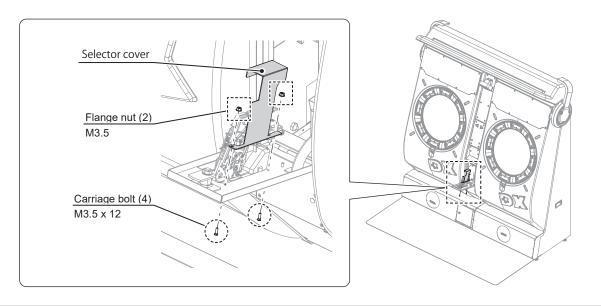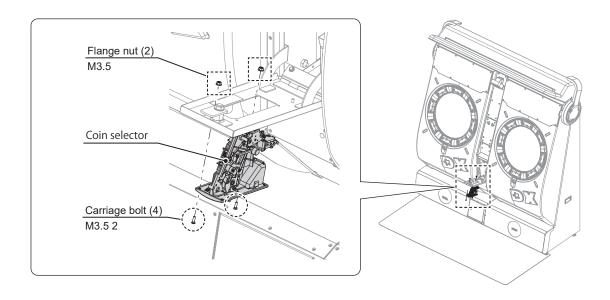
4 Disconnect four connectors.

Connector (2)
F205 (Black: front),
F205 (Yellow, blue : center)

Connector (2)
F110 (Yellow: upper),
F110 (Yellow, orange : lower)

5 Remove two carriage bolts and two flange nuts and then take off the Selector cover.
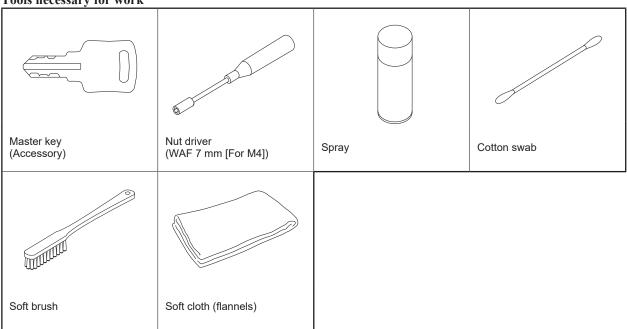
Selector cover

Flange nut (2)
M3.5

Carriage bolt (4)
M3.5 x 12

6 Remove two carriage bolts and two flange nuts and then take off the Coin selector.

Flange nut (2)
M3.5

Coin selector

Carriage bolt (4)
M3.5 2

13

13-3 CLEANING THE COIN SELECTOR

Tools necessary for work

Master key (Accessory)	Nut driver (WAF 7 mm [For M4])	Spray	Cotton swab
Soft brush	Soft cloth (flannels)		
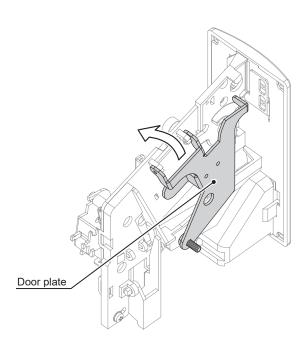
Clean the Coin selector once a months.

1 Refer to "13-2" and work in the same order to take off the coin selector.

2 Push the lever, open the gate, and blow air inside to remove dust or dirt. Remove stubborn dirt with cotton swabs or a soft brush.

Door plate

3 Wet a cloth with water or lukewarm water, wring the water out thoroughly, and then wipe off any dirt.

4 Once finished, dry the coin selector with a dry cloth, and then let it air dry.
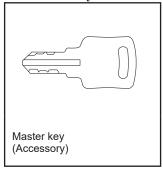
5 Refer to "13-2" and work in reverse order to reattach the coin selector.

13-4 REMOVING JAMMED COINS

Tools necessary for work

Master key
(Accessory)

If a coin does not come out even when you press the reject lever, unlock and open the Selector door, then open the door plate of the coin selector and remove the jammed coin. (See Step 3 in "13-3".)

After you have removed it, insert a normal coin to check that the coin selector is working properly. (See "13-1".)

13

14 PLAYER CAMERA

14-1 CLEANING THE PLAYER CAMERA
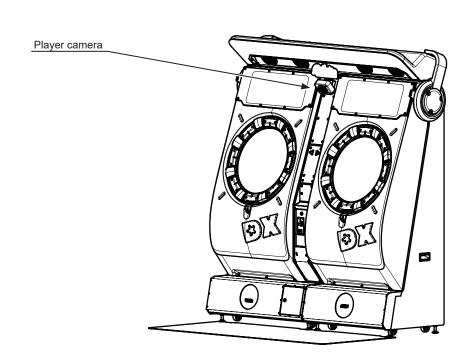
(STOP) IMPORTANT

- **Remove smears by using a dry, soft cloth (e.g. flannels). Do not use abrasive materials.**

- **Use a soft cloth to clean the Player camera. If the coin selector is particularly dirty, wet a cloth with cold or lukewarm water, wring it out and wipe the selector clean. Do not use chemical detergents or other chemicals.**

- **Do not rub or scratch the lens and cover with hard items such as scrub brushes.**

Tools necessary for work

Soft cloth (flannels)

14

Clean the Player camera as appropriate.

Player camera

14-2 REPLACING THE PLAYER CAMERA
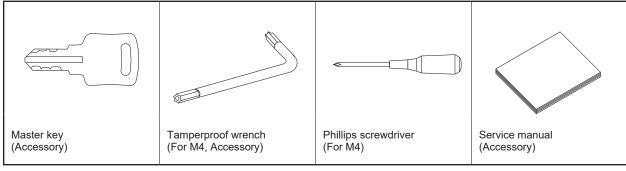
⚠ WARNING
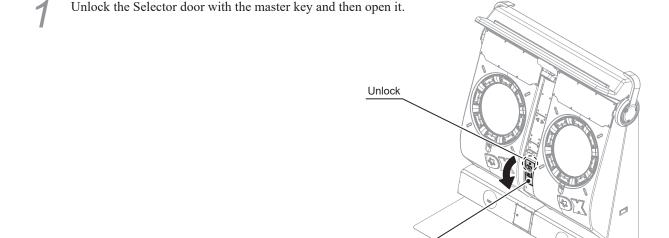
- **This work should be performed by site maintenance personnel or other qualified professionals. Work performed by non-technical personnel can cause a severe accident such as an electric shock.**

- **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.**
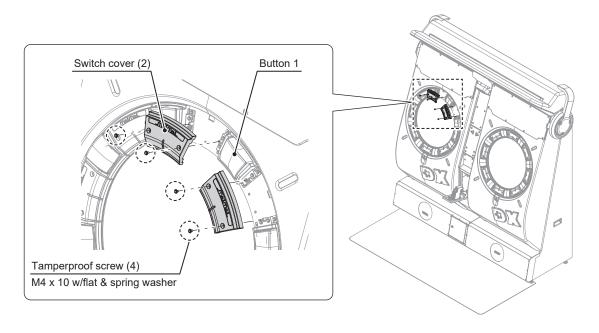
⚠ CAUTION

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.

Tools necessary for work

Master key (Accessory)	Tamperproof wrench (For M4, Accessory)	Phillips screwdriver (For M4)	Service manual (Accessory)

1 Unlock the Selector door with the master key and then open it.

Unlock

Selector door

2 Turn the sub power switch OFF.
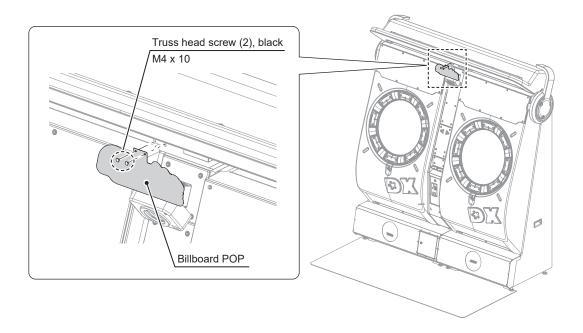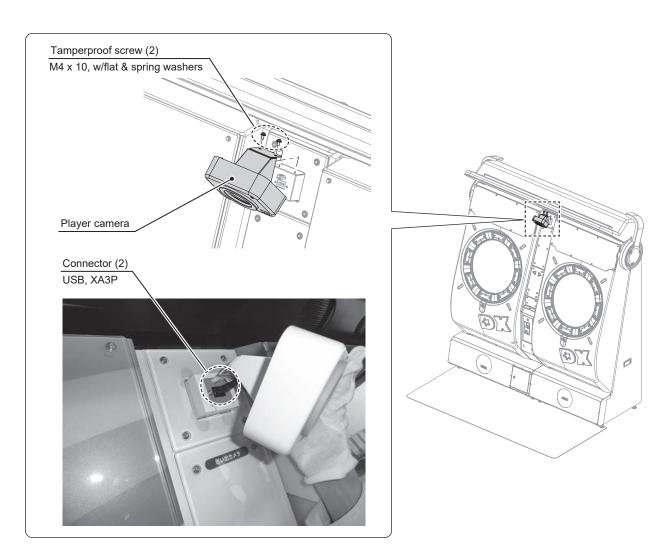
3   Remove two truss head screws and take off the Billboard POP.

Truss head screw (2), black
M4 x 10

Billboard POP
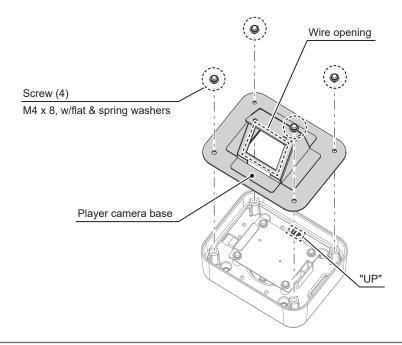
4   Remove two tamperproof screws and take off the Player camera, and then disconnect two connectors.
When doing this, be careful not to pull too hard on the wire connected to the Player camera.

Tamperproof screw (2)
M4 x 10, w/flat & spring washers

Player camera

Connector (2)
USB, XA3P
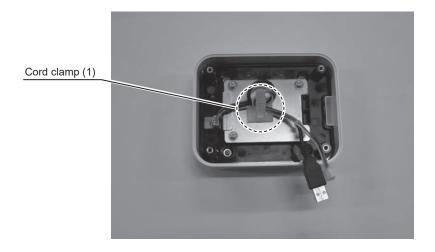
5 Remove four screws and take off the Player camera base. When reattaching, make sure that the wire opening of the player camera base is facing the opposite side of the word "UP".

Wire opening

Screw (4)
M4 x 8, w/flat & spring washers

Player camera base

"UP"
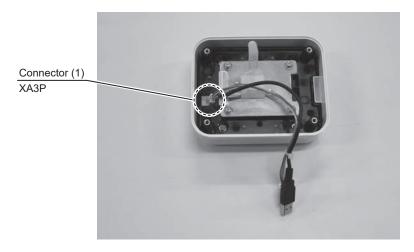
6 Undo one cord clamp. When securing the cord clamp, make a 2 cm circle and secure it.
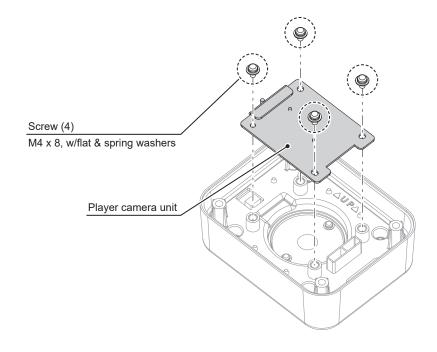
Cord clamp (1)

7 Disconnect one connector.
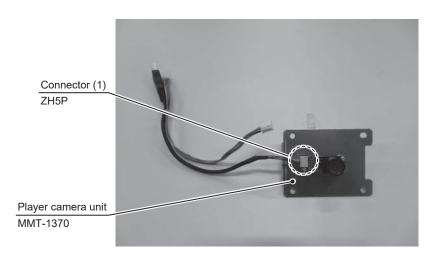
Connector (1)
XA3P

8 Remove four screws and take off the Player camera unit.

Screw (4)
M4 x 8, w/flat & spring washers

Player camera unit

9 Disconnect one connector from the Player camera unit.

Connector (1)
ZH5P

Player camera unit
MMT-1370
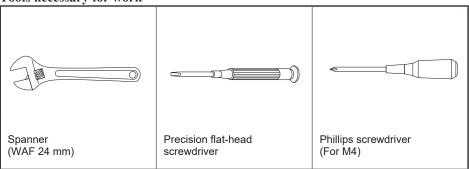
10 Refer to Steps from 3 to 9 and work in reverse order to attach the replacement Player camera unit, and reassemble.

11 Turn the sub power switch ON.

12 Check the operation of the Player camera. (See "3-6 CAMERA TEST" in the Service manual.)

14

15 REPLACING THE FUSE
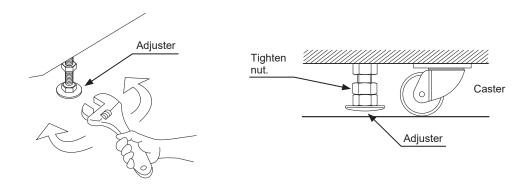
⚠ WARNING

● **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.**

● **For continued protection against risk of fire, replace only with the same type of fuse having the same electrical ratings. In case fuse replacements other than those stated in this manual are necessary, contact the office listed in this manual or the point-of-purchase for this product for inquiries regarding this matter.**

● **Be sure to use fuses meeting specified rating. Using fuses exceeding the specified rating can cause fire and electric shock.**

● **After eliminating the cause of the blowing of fuse, replace the fuse. Depending on the cause of fuse blowing, continued use with the fuse as is blown can cause generation of heat and fire hazard.**

Tools necessary for work

Spanner (WAF 24 mm)	Precision flat-head screwdriver	Phillips screwdriver (For M4)

---

1 Turn the main power switch OFF.

---
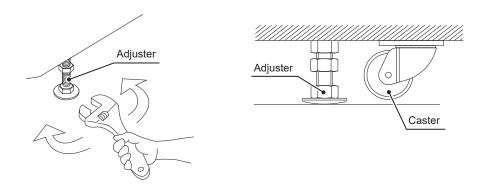
2 Disconnect the connector of the power cable from the AC inlet.

---

3 Raise the eight adjusters on the bottom of the cabinet and have the eight casters contact the floor.

Adjuster

Tighten nut.

Caster

Adjuster

---

4 Move the cabinet to a place with a work space measuring at least 1.5 m in the front, back, left, and right.

5 Bring the eight adjusters into direct contact with the floor.

Adjuster

Adjuster

Caster

6 Remove two truss head screws and take off Back door 1P (lower).

Truss head screw (2), black

M4 x 25, large flat washer (black) used

Back door 1P lower

15
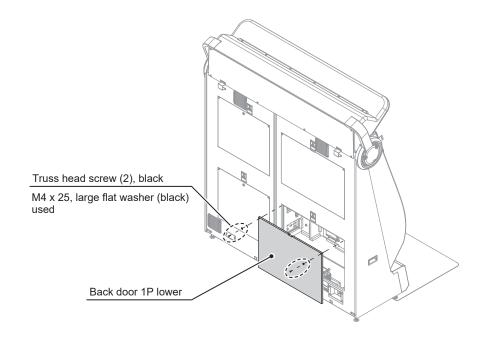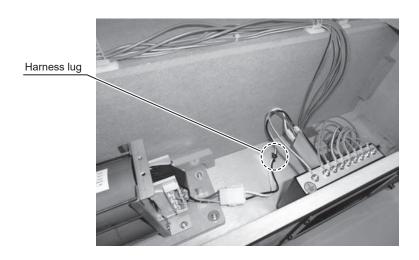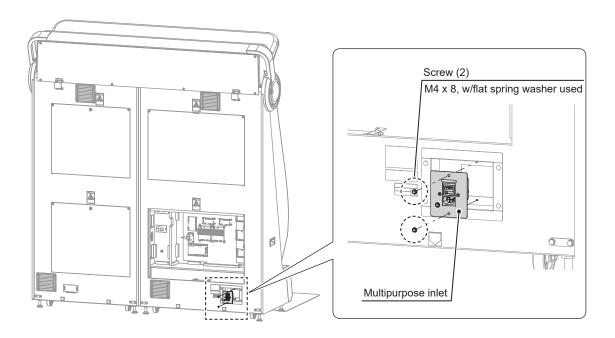
7 Undo a harness lug.

Harness lug
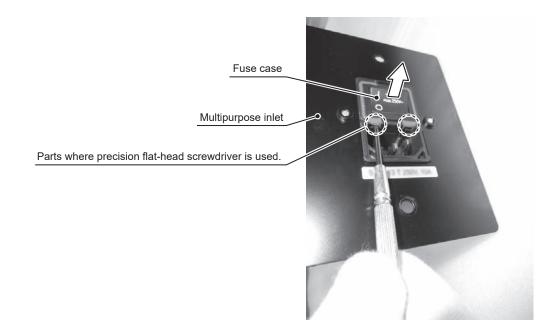
8 Remove two screws and take off the Multipurpose inlet. When doing this, be careful not to damage the cables.

Screw (2)

M4 x 8, w/flat spring washer used

Multipurpose inlet

9 Use a precision flat-head screwdriver to take off the Fuse case from the Multipurpose inlet. When reattaching the Fuse case, push it in until it clicks into place.

Fuse case

Multipurpose inlet

Parts where precision flat-head screwdriver is used.
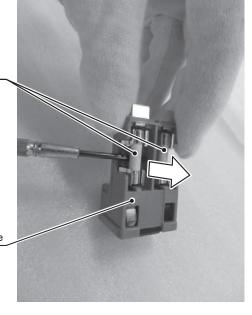
10   Use a precision flat-head screwdriver to take off two fuses.

Fuse (2)

514-5176-10000: For Taiwan
514-5176-5000: For Hong Kong
Note: This part must be purchased separately.

Fuse case

11   Refer to Steps from 2 to 10 and work in reverse order to attach the replacement fuse and reassemble the cabinet.

15

16 ALLS HX2

⚠ 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.**

- **Do not expose the ALLS HX2 or other boards. Failure to observe this can cause an electric shock or malfunction.**

- **No connectors other than those connected on the ALLS HX2 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 ALLS HX2 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.**

⚠ CAUTION

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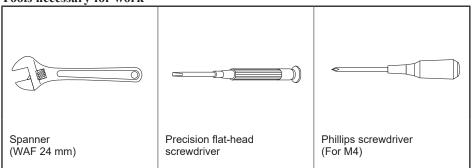
(STOP) IMPORTANT

- **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.**

- **When requesting replacement or repair of the ALLS HX2, pack it securely so that it will not get damaged during shipping.**

- **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 connected cabinet. If the server machine is started afterward, the in-store network may not operate correctly.

16-1 REMOVING THE ALLS HX2

Tools necessary for work

Spanner (WAF 24 mm)	Precision flat-head screwdriver	Phillips screwdriver (For M4)

1 Turn the main power switch OFF.
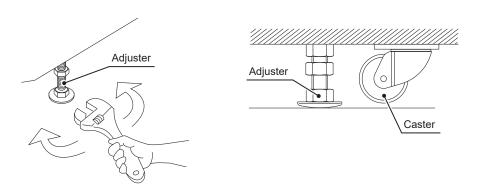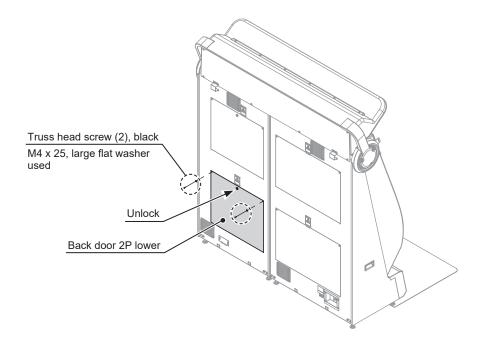
2 Loosen the eight nuts to raise the eight adjusters on the bottom of the cabinet and have the eight casters contact the floor.

Adjuster

Loosen nut.

Adjuster   Caster

3 Move the cabinet to a place with a work space measuring at least 1.5 m in the front, back, left, and right.

16

4 Bring the eight adjusters into direct contact with the floor.

Adjuster

Adjuster

Caster
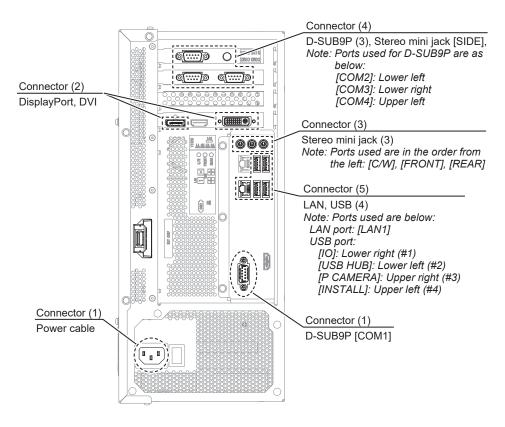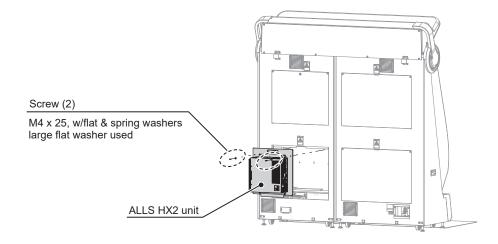
5 Remove the two truss head screws. Unlock the Back door 2P lower with the master key and then take it off.

Truss head screw (2), black
M4 x 25, large flat washer
used

Unlock

Back door 2P lower

6 Disconnect the 16 connectors from the ALLS HX2.
When doing this,
- Loosen the fixing screws of the DVI, D-SUB9P connectors before disconnecting.
- Use a precision flat-head screwdriver on the D-SUB9P connector.
- Take off the DisplayPort as pressing the tabs.

Connector (4)
D-SUB9P (3), Stereo mini jack [SIDE],
Note: Ports used for D-SUB9P are as
below:
[COM2]: Lower left
[COM3]: Lower right
[COM4]: Upper left

Connector (2)
DisplayPort, DVI

Connector (3)
Stereo mini jack (3)
Note: Ports used are in the order from
the left: [C/W], [FRONT], [REAR]

Connector (5)
LAN, USB (4)
Note: Ports used are below:
 LAN port: [LAN1]
 USB port:
  [IO]: Lower right (#1)
  [USB HUB]: Lower left (#2)
  [P CAMERA]: Upper right (#3)
  [INSTALL]: Upper left (#4)

Connector (1)
Power cable

Connector (1)
D-SUB9P [COM1]

16

7 Remove the two screws and take off the ALLS HX2 unit.

Screw (2)

M4 x 25, w/flat & spring washers
large flat washer used

ALLS HX2 unit

16-2 CLEANING THE ALLS HX2

(STOP) IMPORTANT

- **Clean the ALLS HX2 once a year or when "Error 0091" is displayed. If dust accumulates inside the ALLS HX2, it could lead to malfunction and other trouble.**

- **The parts, software, settings, etc. are different for each ALLS HX2. After cleaning, be sure to put the ALLS HX2 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.**

Tools necessary for work

Spanner (WAF 24 mm)	Precision flat-head screwdriver	Phillips screwdriver (For M3, M4)	Vacuum cleaner
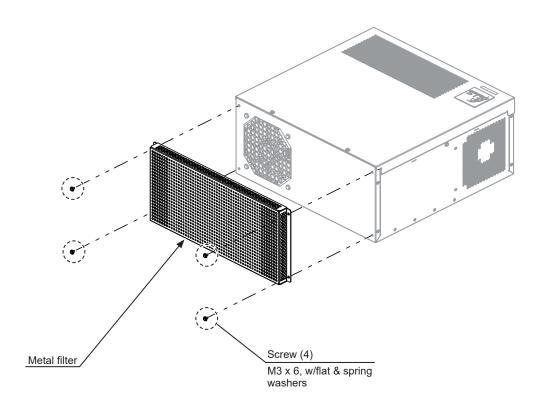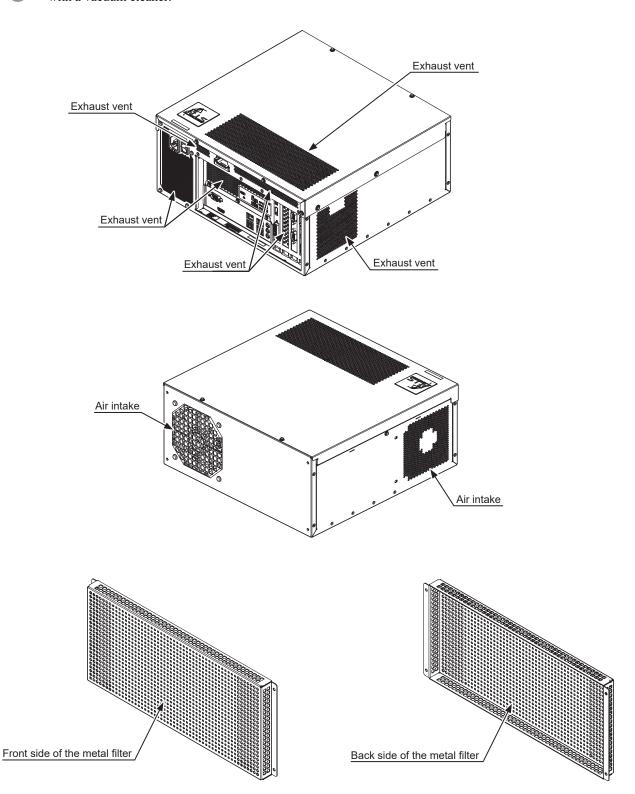
1   Refer to "16-1" and take off the ALLS HX2.

2   Remove the two screws and take off the ALLS HX2 metal filter. The screws are on the opposite side of the connector face.

16

Metal filter

Screw (4)
M3 x 6, w/flat & spring washers

3 Clean the front and back of the metal filter and the area around the ALLS HX2 exhaust and intake vents with a vacuum cleaner.

Exhaust vent

Exhaust vent

Exhaust vent

Exhaust vent

Exhaust vent

Air intake

Air intake

Front side of the metal filter

Back side of the metal filter
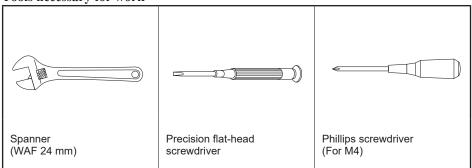
4 Clean around installment parts of ALLS HX2 in the cabinet with a vacuum cleaner. Be careful not to damage the cables.

5 Refer to Step 2 and work in reverse order to attach the metal filters.

6 Refer to "16-1" and work in reverse order to attach the ALLS HX2.
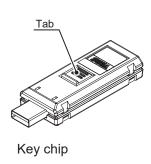
16-3 REPLACING THE ALLS HX2

Tools necessary for work

Spanner (WAF 24 mm)	Precision flat-head screwdriver	Phillips screwdriver (For M4)

1 Refer to "16-1" and take off the ALLS HX2.
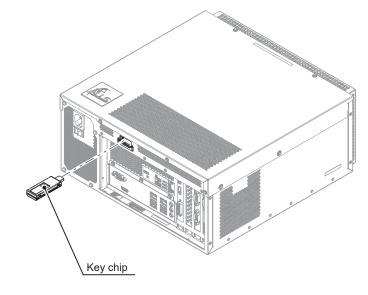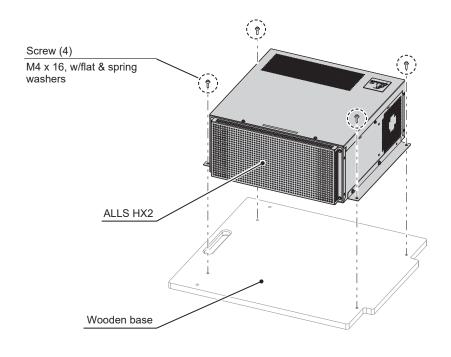
2 Remove the key chip from the ALLS HX2. When doing this, press the tab and take it off.

Tab

Key chip

Key chip

16
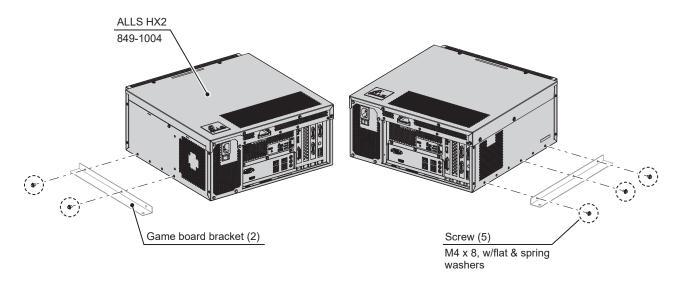
3   Remove four screws and take off the wooden base from the ALLS HX2.

Screw (4)
M4 x 16, w/flat & spring washers

ALLS HX2

Wooden base

4   Remove five screws and take off the Game board bracket from the ALLS HX2.

ALLS HX2
849-1004

Game board bracket (2)

Screw (5)
M4 x 8, w/flat & spring washers

5   Refer to Steps from 1 to 4 and work in reverse order to attach the replacement ALLS HX2 and reassemble the cabinet.

17 MULTIPURPOSE BRACKET

STOP IMPORTANT

When using the multipurpose bracket (this bracket), be sure to display the smartphone stand caution label available for download from our website. (http://op.sega.jp/op_e)

This section explains how to attach the multipurpose bracket, which supports the installation of photo and video recording equipment.
Stores must provide their own equipment.
Please read the following disclaimer before using this bracket.

Disclaimer

Please understand that we cannot be held responsible for the following ;
- any damage caused by using this bracket
- any theft or damage to this bracket and/or connected items
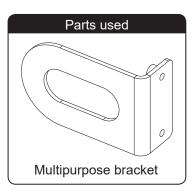
Precautions When Handling Connected Items
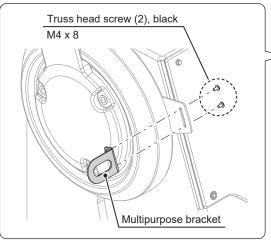
- Place the connected item in a location where it cannot be accessed by players and spectators.
- Be sure to attach the connected item securely so that it does not fall off.
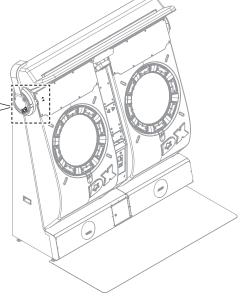
How to attach

Attach the Multipurpose bracket with two truss head screws.
The figure below explains with Cabinet 1P, work on the Cabinet 2P with the same steps.

17

Parts used

Multipurpose bracket

Truss head screw (2), black
M4 x 8

Multipurpose bracket

18 DESIGN RELATED PARTS

SIDE COVER OUTER 1P
MMT-0003

SIDE COVER OUTER 2P
MMT-0004

SIDE COVER INNER 1P
MMT-0001

SIDE COVER INNER 2P
MMT-0002

FRONT COVER SHEET 1P
MMT-1302

FRONT COVER SHEET 2P
MMT-1601

CENTER PLATE UPPER
MMT-1031

FRONT COVER 1P
MMT-1310

BILLBOARD POP
MMT-0008

BILLBOARD COVER
MMT-1810-01

STICKER SPEAKER
MMT-1802

CENTER SHEET LOWER EXP
MMT-1030-01

SELECT BUTTON PANEL EXP
MMT-1452-01

CARD ENTRY PLATE EXP
MMT-1404-01

FRONT COVER 2P
MMT-1610

PLAY AREA MAT
MMT-0007

18

🔟9 PARTS LIST

19-1 CABINET

List formation chart

(1) MMT-0000
     TOP ASSY MMT

—(2) MMT-1000 ——————— (3) MMT-1001 ——————— (4) MMT-1002
      ASSY CABINET 1P   ASSY SUB CABINET 1P   CABINET 1P

                              —(5) MMT-1050
                                    AC UNIT

                              —(6) MMT-1060
                                    ASSY CASH BOX DOOR

                              —(7) MMT-1070
                                    ASSY HEADPHONE JACK COVER

                              —(8) MMT-1100
                                    ASSY LCD

                              —(9) MMT-1200 ——————— (10) MMT-2000
                                    ASSY SW BASE 1P   ASSY BUTTON SWITCH

                              —(11) MMT-1300 ——————— (12) MMT-1310
                                    ASSY FRONT COVER 1P   FRONT COVER 1P

                              —(13) MMT-1400-01 ——————— (14) MMT-1420
                                    ASSY CENTER TOWER EXP   ASSY SELECTOR DOOR

                              —(18) MMT-4100   —(15) MMT-1440-01
                                    ASSY ELEC BD   ASSY AIME EXP

                              —(19) 610-0963   —(16) MMT-1450-01
                                    ASSY DC 12V FAN 120MM   ASSY SELECT BUTTON
                                                                  PANEL EXP

                              —(20) MMT-4200
                                    ASSY XFMR   —(17) MMT-1460
                                                                  SW UNIT
                              —(21) MMT-6001
                                    ASSY WIRE 1P

—(22) MMT-1350 ——————— (23) MMT-1360
      ASSY PLAYER CAMERA   ASSY PLAYER CAMERA COVER

                              —(24) MMT-1370
                                    PLAYER CAMERA UNIT

A

A

(25) MMT-1500
ASSY CABINET 2P

    (26) MMT-1501
    ASSY SUB CABINET 2P

        (27) MMT-1502
        CABINET 2P

    (7) MMT-1070
    ASSY HEADPHONE JACK COVER

        (28) MMT-1550
        ASSY BACK DOOR 2P

    (8) MMT-1100
    ASSY LCD

    (29) MMT-1600
    ASSY FRONT COVER 2P

        (30) MMT-1610
        FRONT COVER 2P

    (31) MMT-1700
    ASSY SW BASE 2P

        (10) MMT-2000
        ASSY BUTTON SWITCH

    (32) MMT-4000
    ASSY GAME BD

    (19) 610-0963
    ASSY DC 12V FAN 120MM

    (33) MMT-6002
    ASSY WIRE 2P

(34) MMT-1800-01
ASSY BILLBOARD

    (35) MMT-1810-01
    BILLBOARD COVER

(37) MMT-1900
ASSY SIDE COVER BASE 1P

    (36) MMT-1850
    ASSY SPEAKER

(38) MMT-1950
ASSY SIDE COVER BASE 2P

19

(1) MMT-0000
TOP ASSY MMT

(D-1/2)

SEE C

Detail view of section A.

Detail view of section B.

(1) MMT-0000
TOP ASSY MMT

<div align="right">(D-2/2)</div>

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1000	ASSY CABINET 1P	
2	MMT-1350	ASSY PLAYER CAMERA	
3	MMT-1500	ASSY CABINET 2P	
4	MMT-1800-01	ASSY BILLBOARD	
5	MMT-1900	ASSY SIDE COVER BASE 1P	
6	MMT-1950	ASSY SIDE COVER BASE 2P	
7	MMT-0001	SIDE COVER INNER 1P	
8	MMT-0002	SIDE COVER INNER 2P	
9	MMT-0003	SIDE COVER OUTER 1P	
10	MMT-0004	SIDE COVER OUTER 2P	
11	MMT-0005	REAR PLATE BRKT	
12	MMT-0006	REAR PLATE	
13	MMT-0007	PLAY AREA MAT	
14	MMT-0008	BILLBOARD POP	
15	MMT-0009	STICKER CABLE AND PANEL	
16	SGM-4175	POLY COVER 1200x1200x2000	
22	421-14235-01	INSTR SH MMT SHIPPING 1P EXP	
23	421-14236-01	INSTR SH MMT SHIPPING 2P EXP	
201	030-000835-WB	HEX BLT W/FS BLK M8x35	
202	030-000850-S	HEX BLT W/S M8x50	
203	068-852216	FLT WSHR 8.5-22 X1.6	
204	FAS-080036	TMP PRF SCR PH W/FS STN M4x10	
205	000-P00416-W	M SCR PH W/FS M4x16	
206	050-F00400	FLG NUT M4	
207	000-T00416-0B	M SCR TH BLK M4x16	
208	068-441616-0B	FLT WSHR BLK 4.4-16x1.6	
209	000-T00425-0B	M SCR TH BLK M4x25	
210	000-T00408-0B	M SCR TH BLK M4x8	
301	600-8205	AC CABLE CONNECT TYPE 15A W/E	
402	220-5793-2-A001	KEY MASTER A001	
403	514-5176-5000	FUSE SG5063 5X20 5A 250V	HONG KONG
	514-5176-10000	FUSE SG5063 5x20 10A 250V	TAIWAN
404	600-7269-1000	ASSY LAN CABLE 1000CM	
405	610-0880	ASSY TOUCH PANEL TEST TOOL	
406	MMT-0010	OPTION BRKT	
407	421-14274-01	INSTR SH MMT OPTION PARTS ENG	
408	600-6972-2500	WIRE HARN EARTH ID5 2500MM	
951	421-7308-136	DENOMINATION SHEET BLANK	

19

(2) MMT-1000 **(D-1/3)**
ASSY CABINET 1P

(2) MMT-1000
ASSY CABINET 1P
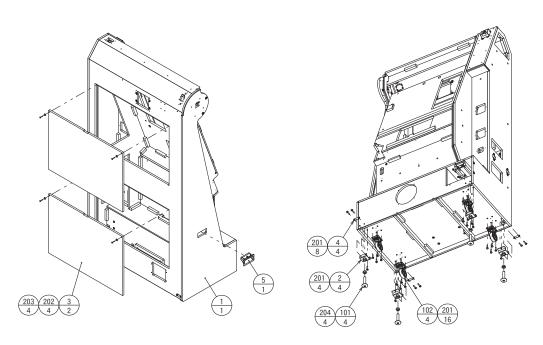
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1001	ASSY SUB CABINET 1P	
2	MMT-1050	AC UNIT	
3	MMT-1060	ASSY CASH BOX DOOR	
4	MMT-1070	ASSY HEADPHONE JACK COVER	
5	MMT-1100	ASSY LCD	
6	MMT-1200	ASSY SW BASE 1P	
7	MMT-1300	ASSY FRONT COVER 1P	
8	MMT-1400-01	ASSY CENTER TOWER EXP	
9	MMT-4100	ASSY ELEC BD	
10	610-0963	ASSY DC 12V FAN 120MM	
11	MMT-1020	JOINT PIN 1P BRKT	
12	MMT-1021	CABINET EDGE COVER	
13	MMT-1022	FRONT LED CONN PLATE	
14	MMT-1023	CENTER TOWER CONN BRKT LOWER	
15	MMT-1024	CENTER TOWER CONN BRKT MIDDLE	
16	MMT-1025	CENTER TOWER CONN BRKT UPPER	
17	MMT-1026	COIN METER BRKT	
18	MMT-1027	FOOT COVER 1P	
19	MMT-1028	FRONT COVER SASH	
20	MMT-1029	CENTER PLATE LOWER	
21	MMT-1030-01	CENTER SHEET LOWER EXP	
22	MMT-1031	CENTER PLATE UPPER	
24	MMT-1033	CABINET INNER REFLECTOR 1P	
25	MMT-1034	CABINET INNER REFLECTOR REAR	
26	MMT-1035	FRONT LED BRKT LOWER	
27	MMT-1036	FRONT LED BRKT UPPER	
28	MMT-1037	SIDE COVER REFLECTOR 1P	
29	253-5417	CASH BOX LOW	
30	253-5460-01	AIR VENT BLACK	
31	421-6591-01	STICKER COIN METER	
33	421-11416	STICKER CAUTION FORK	
34	440-WS0002YEG	STICKER W POWER OFF ENG	
35	MMT-4200	ASSY XFMR	
101	130-5280-01	WOOFER 4OHM 80W	
102	220-5798-01	MAG CNTR 4P MZ674-DC5V-D41 JC	
103	280-8001	CLAMP LWSM-0511 CLEAR NIX	
104	390-7244-0525	LED TAPE WHITE M3528W-A 0525MM	
105	390-7244-0675	LED TAPE WHITE M3528W-A 0675MM	
106	509-6386-V-B	SW ROCKER V-B CF-LA-2KZ2-5C	
107	280-7892	CORD CLAMP TL-19AN	
108	280-6676	CORD CLAMP TL-25A TKK	
109	280-5207	HARNESS LUG CC-1005	
110	280-5275-SR10	CORD CLAMP SR10	
201	000-T00416-0B	M SCR TH BLK M4x16	
202	000-P00408-W	M SCR PH W/FS M4x8	

19

(2) MMT-1000 (D-3/3)
ASSY CABINET 1P

ITEM NO.	PART NO.	DESCRIPTION	NOTE
203	030-000630-WB	HEX BLT W/FS BLK M6x30	
204	068-652016	FLT WSHR 6.5-20 X1.6	
205	FAS-080040	TMP PRF SCR PH W/FS STN M4x20	
206	068-441616-0C	FLT WSHR CRM 4.4-16x1.6	
207	000-P00435-S	M SCR PH W/S M4x35	
208	000-P00416-W	M SCR PH W/FS M4x16	
209	011-T03512	TAP SCR TH 3.5x12	
210	000-F00412-0B	M SCR FH BLK M4x12	
211	FAS-110032	TAP SCR PH #1 BLK 4x12	
212	011-F00312	TAP SCR #1 FH 3x12	
213	000-P00308-W	M SCR PH W/FS M3x8	
214	060-F00400	FLT WSHR M4	
215	060-S00400	SPR WSHR M4	
216	050-H00400	HEX NUT M4	
217	000-P00535-S	M SCR PH W/S M5x35	
218	068-552016	FLT WSHR 5.5-20 X1.6	
301	MMT-6001	ASSY WIRE 1P	
303	MMT-60004	WH AC 2	
304	MMT-60029	WH EXT WHITE LED 1P	
305	MMT-60033	WH EXT FAN 1P	
309	600-8206-200	CA USB A-A(FEM) FOR PNL 200CM	
310	600-8272-100	CA USB3.0 A-A(F) FOR PNL 100CM	
311	600-8317	CA DP TO DVI-D/M PASSIVE MMT	
312	600-8292-050	USB CABLE A-MINI B 050CM K	

19
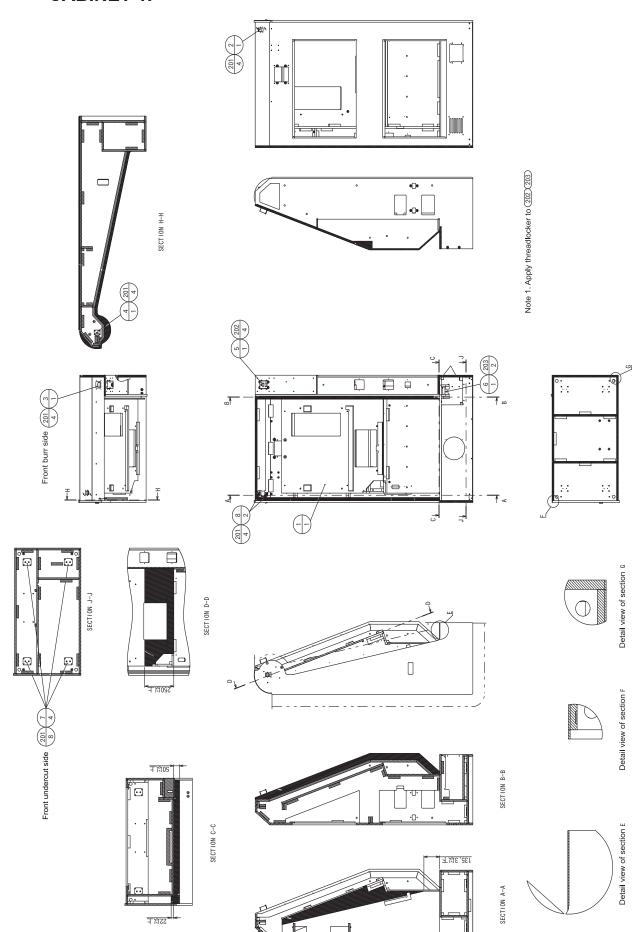
(3) MMT-1001
ASSY SUB CABINET 1P

The tightening torque for ⌴101⌴ part must be 11±1N・m.

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1002	CABINET 1P	
2	MMT-1007X	LEG BRKT	
3	MMT-1008	BACK DOOR 1P	
4	117-5233-91	PLATE LEG BRACKET BLACK	
5	253-5396-91	CABINET HANDLE	
101	601-5699X	LEG ADJUSTER BOLT M16x75	
102	601-11223	CASTER 75 PAU	
201	030-000630-WB	HEX BLT W/FS BLK M6x30	
202	000-T00425-0B	M SCR TH BLK M4x25	
203	068-441616-0B	FLT WSHR BLK 4.4-16x1.6	
204	050-H01600-3	HEX NUT TYPE3 M16	

(4) MMT-1002 CABINET 1P **(D-1/2)**

Note 1. Apply threadlocker to 202 203

SECTION H-H

Front burr side

SECTION J-J

Front undercut side

SECTION D-D

SECTION C-C

SECTION B-B

SECTION A-A

Detail view of section G

Detail view of section F

Detail view of section E

19

(4) MMT-1002 (D-2/2)
CABINET 1P
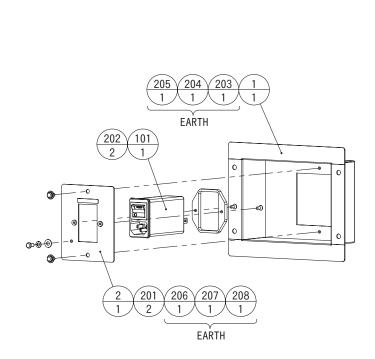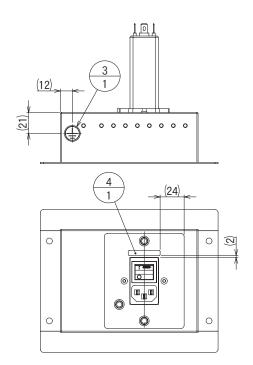
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1002-A	CABINET 1P BLANK	
2	MMT-1003	BILLBOARD HOLD BRKT	
3	MMT-1004	BILLBOARD CONN PLATE	
4	MMT-1005	SIDE COVER BASE CONN BRKT	
5	MMT-1006	PLAYER CAMERA CONN BRKT	
6	CNI-1008X	LOCK BRKT	
7	CTF-1104	CASTER NUT PLATE	
8	117-5463	NUT PLATE M8	
201	011-T03512	TAP SCR TH 3.5x12	
202	000-P00416-W	M SCR PH W/FS M4x16	
203	000-P00425-W	M SCR PH W/FS M4x25	

19

(5) MMT-1050
AC UNIT
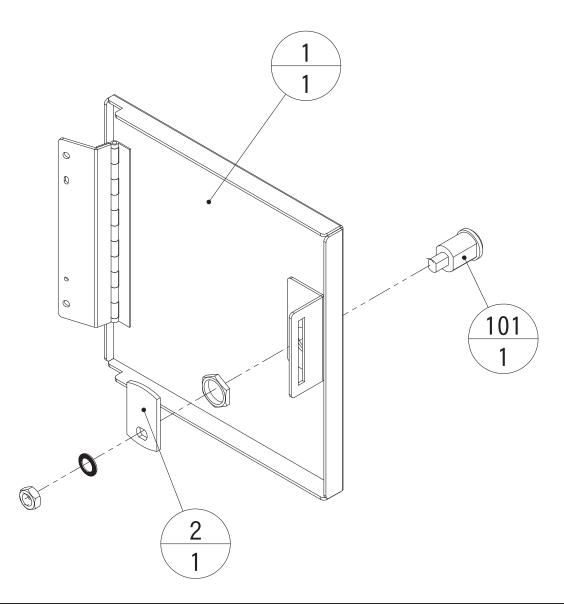
Attaching position of ③④ to ①.
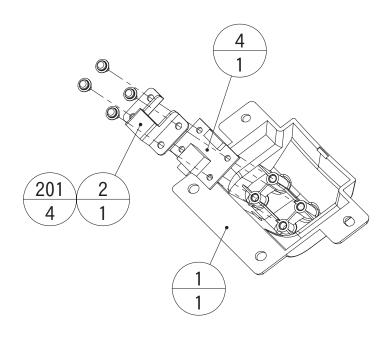
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1051	AC UNIT BASE	
2	ONG-1171	AC PLATE	
3	421-8202	STICKER EARTH MARK	
4	421-14157-5000	STICKER FUSE SG5063 T 5A	HONG KONG
	421-14157-10000	STICKER FUSE SG5063 T 10A	TAIWAN
101	270-5179-10	NOISE FILTER FN9280E-10-06	
102	514-5176-5000	FUSE SG5063 5X20 5A 250V	HONG KONG
	514-5176-10000	FUSE SG5063 5x20 10A 250V	TAIWAN
201	000-P00408-W	M SCR PH W/FS M4x8	
202	000-F00308	M SCR FH M3x8	
203	060-F00400	FLT WSHR M4	
204	060-S00400	SPR WSHR M4	
205	050-H00400	HEX NUT M4	
206	FAS-600033	FLT WSHR STN M4	
207	FAS-600040	SPR WSHR STN M4	
208	FAS-000266	M SCR PH STN M4x8	
301	MMT-60059	WH XFMR 220V	HONG KONG
	MMT-60058	WH XFMR 110V	TAIWAN
302	MMT-60002	WH AC UNIT EARTH	

19
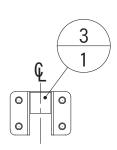
(6) MMT-1060
ASSY CASH BOX DOOR

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1061	CASH BOX DOOR	
2	DP-1167	TNG LKG	
101	220-5794	CLY LOCK W/KEYS	

(7) MMT-1070
ASSY HEADPHONE JACK COVER

Attaching position of ③ to ②.
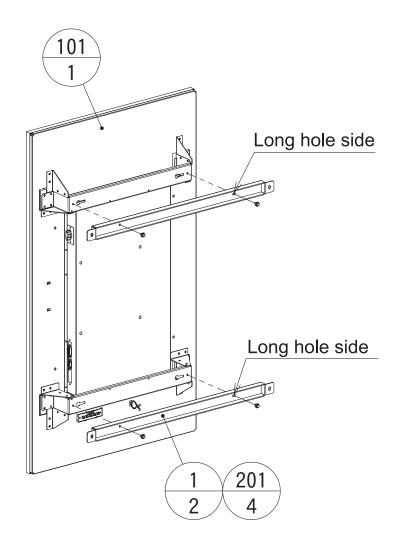
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1071	HEADPHONE JACK COVER	
2	SRA-1903	HEADPHONE JACK HOLDER	
3	SRA-1906	HEADPHONE JACK HOLDER CUSHION	
4	837-20015	HEADPHONE JACK BD	
201	FAS-000159	M SCR PH W/SMALL FS M3x8	

(8) MMT-1100
ASSY LCD

Long hole side

Long hole side
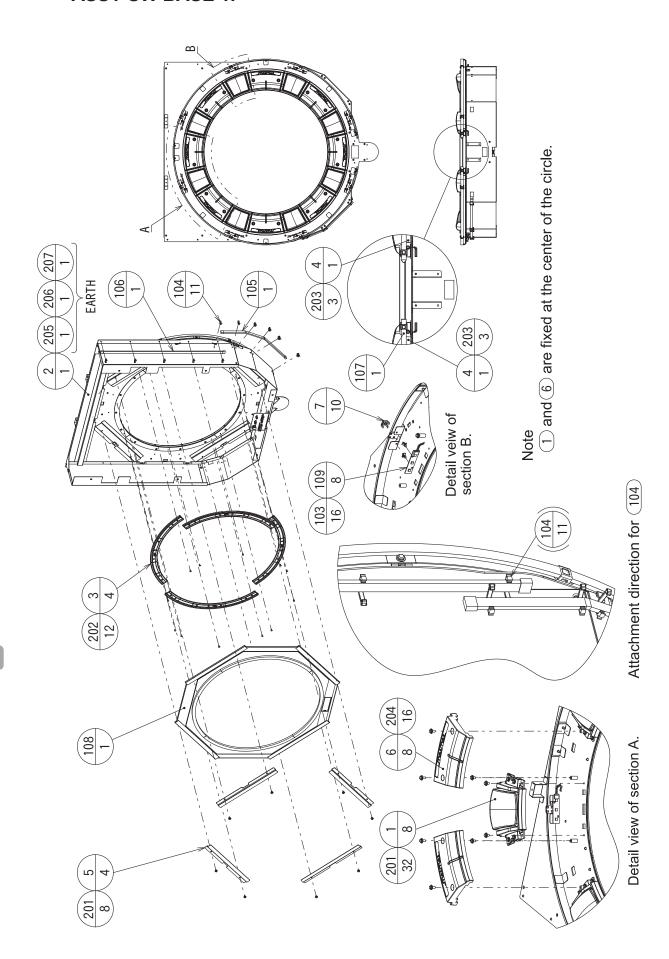
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1101	LCD BRKT	
101	200-6280	LCD DSPL 43 LED 6500K/9300K Y	
201	000-P00510-W	M SCR PH W/FS M5x10	
953	270-5117	FERRITE CORE TDK ZCAT3035-1330	

19

(9) MMT-1200 **(D-1/2)**
ASSY SW BASE 1P

19

Note
① and ⑥ are fixed at the center of the circle.

Detail veiw of section B.

Attachment direction for ⑩④

Detail view of section A.

(9) MMT-1200 (D-2/2)
ASSY SW BASE 1P

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-2000	ASSY BUTTON SWITCH	
2	MMT-1201	SW BASE	
3	MMT-1202	TOUCH PANEL SPACER	
4	MMT-1203	TAPE LED SUPPORT	
5	MAI-1203	PANEL SASH	
6	MAI-1206X	SW COVER	
7	253-5748	TAPE LED HOLDER	
101	280-5275-SR10	CORD CLAMP SR10	
102	280-7892	CORD CLAMP TL-19AN	
103	280-7896-05	SPACER WN-05G (HIROSUGI)	
104	280-8001	CLAMP LWSM-0511 CLEAR NIX	
105	390-7244-0350	LED TAPE WHITE M3528W-A 0350MM	
106	390-7244-0525	LED TAPE WHITE M3528W-A 0525MM	
107	390-7244-2325	LED TAPE WHITE M3528W-A 2325MM	
108	509-6483	TOUCH SENSOR UNIT TPK	
109	838-15235-01	LED BD RGB 3x1BLOCK 5050	
201	000-P00408-W	M SCR PH W/FS M4x8	
202	000-F00308	M SCR FH M3x8	
203	FAS-000159	M SCR PH W/SMALL FS M3x8	
204	FAS-080036	TMP PRF SCR PH W/FS STN M4x10	
205	060-F00400	FLT WSHR M4	
206	060-S00400	SPR WSHR M4	
207	050-H00400	HEX NUT M4	
301	MMT-60036	WH SW BASE LED	
302	MMT-60037	WH SW BASE SENSOR	
303	MMT-60038	WH TOUCH SENSOR	
304	MMT-60039	WH BODY LED	
305	MMT-60041	WH HEADPHONE JACK	

19

(10) MMT-2000
ASSY BUTTON SWITCH

Detail view of attachment position for ③

Note
1. The tightening torque for ② must be 0.7±0.05N·m.
2. The tightening torque for ⑥ must be 1.5±0.1N·m.
3. Use "SOLVEST© 248" for greasing.

Apply grease to the shaded area.

Align dowels for ② .

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MAI-2001X	SW PLATE	
2	MMT-2001	SW SPRING	
3	MMT-2002	SW CUSHION	
4	MAI-2004X	SW BUTTON	
5	MAI-2005	SW SHAFT	
6	MAI-2006X	SW BEZEL	
101	370-5359	PHOTO INTERRUPTER OJ-535S-A5	
201	FAS-120028	TAP SCR TH #2 3x8	
202	000-P00408-W	M SCR PH W/FS M4x8	
301	MAI-60305	WH SENSOR	

(11) MMT-1300
ASSY FRONT COVER 1P

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1310	FRONT COVER 1P	
2	MMT-1301	SUB MONITOR PLATE	
3	MMT-1302	FRONT COVER SHEET 1P	
201	FAS-600033	FLT WSHR STN M4	
203	050-C00400-3C	CAP NUT TYPE3 CRM M4	
204	FAS-080040	TMP PRF SCR PH W/FS STN M4x20	

19

(12) MMT-1310
FRONT COVER 1P
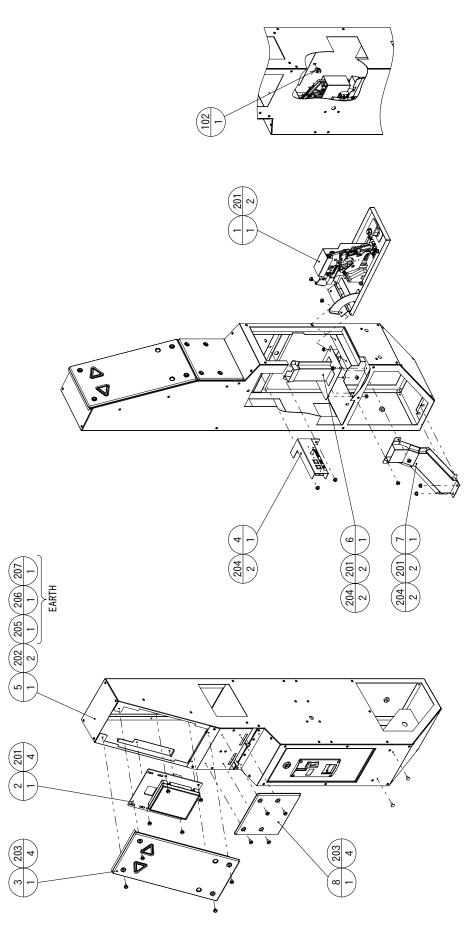
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1311	FRONT COVER 1P BLANK	
2	MMT-1312	STUD PLATE	
3	TX-1029X-A	NUT PLATE	

19

(13) MMT-1400-01
ASSY CENTER TOWER EXP

(D-1/2)

Note 1. Apply threadlocker to ①, ④, ⑥, ⑦
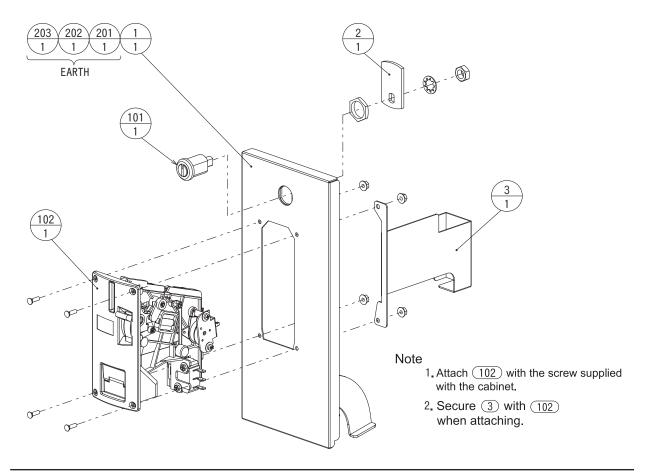
(13) MMT-1400-01   (D-2/2)
ASSY CENTER TOWER EXP
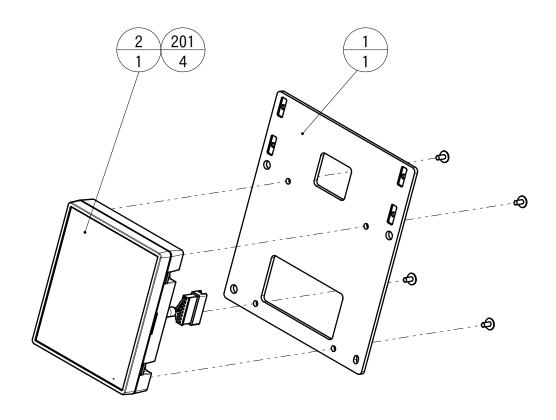
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1420	ASSY SELECTOR DOOR	
2	MMT-1440-01	ASSY AIME EXP	
3	MMT-1450-01	ASSY SELECT BUTTON PANEL EXP	
4	MMT-1460	SW UNIT	
5	MMT-1401X	CENTER TOWER BOX	
6	MMT-1402	COIN CHUTE UPPER	
7	MMT-1403	COIN CHUTE LOWER	
8	MMT-1404-01	CARD ENTRY PLATE EXP	
101	280-7892	CORD CLAMP TL-19AN	
102	280-7973	REUSE LOCKING CLAMP RLWT-0.5V0	
201	000-P00408-W	M SCR PH W/FS M4x8	
202	000-T00408-0C	M SCR TH CRM M4x8	
203	FAS-080036	TMP PRF SCR PH W/FS STN M4x10	
204	050-F00400	FLG NUT M4	
205	060-F00400	FLT WSHR M4	
206	060-S00400	SPR WSHR M4	
207	050-H00400	HEX NUT M4	
301	MMT-60048	WH AIME VFD	
302	MMT-60049	WH EXT SELECT BUTTON	
303	MMT-60054	WH EXT COIN 2	

19

(14) MMT-1420
ASSY SELECTOR DOOR

Note
1. Attach (102) with the screw supplied with the cabinet.
2. Secure (3) with (102) when attaching.
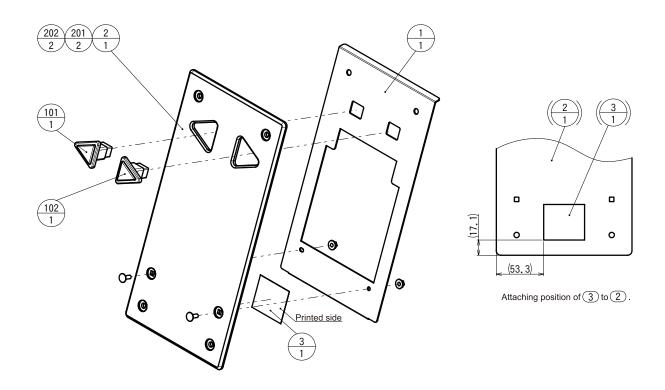
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1421	SELECTOR DOOR	
2	RVO-1112	TNG LKG VERT HOLE	
3	MAI-1422	SELECTOR COVER	
101	220-5793-1-A001	CLY LOCK MASTER W/O KEY A001	
102	220-5846-91-01	PFB-730 QL203 12VBK 100	
103	280-7892	CORD CLAMP TL-19AN	
104	280-5275-SR10	CORD CLAMP SR10	
201	060-F00400	FLT WSHR M4	
202	060-S00400	SPR WSHR M4	
203	050-H00400	HEX NUT M4	
301	MMT-60055	WH COIN	

19

(15) MMT-1440-01
ASSY AIME EXP
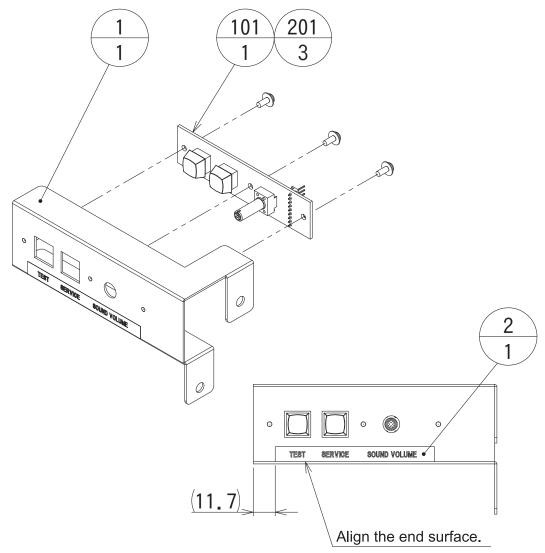
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1441	AIME AND VFD PLATE	
2	610-0957	AIME RW UNIT EXP	
201	000-P00308-W	M SCR PH W/FS M3x8	

19

(16) MMT-1450-01
ASSY SELECT BUTTON PANEL EXP

(17.1)

(53.3)

Attaching position of ③ to ②.

Printed side

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1451	SELECT BUTTON BRKT	
2	MMT-1452-01	SELECT BUTTON PANEL EXP	
3	421-7308-136	DENOMINATION SHEET BLANK	
101	509-5970-BL	SW PB OBSF-24TR BL	
102	509-5970-RE	SW PB OBSF-24TR RE	
103	280-7892	CORD CLAMP TL-19AN	
201	031-000412-0C	CRG BLT CRM M4x12	
202	050-F00400	FLG NUT M4	
301	MMT-60050	WH SELECT BUTTON	

19

(17) MMT-1460
SW UNIT

Align the end surface.

(11.7)
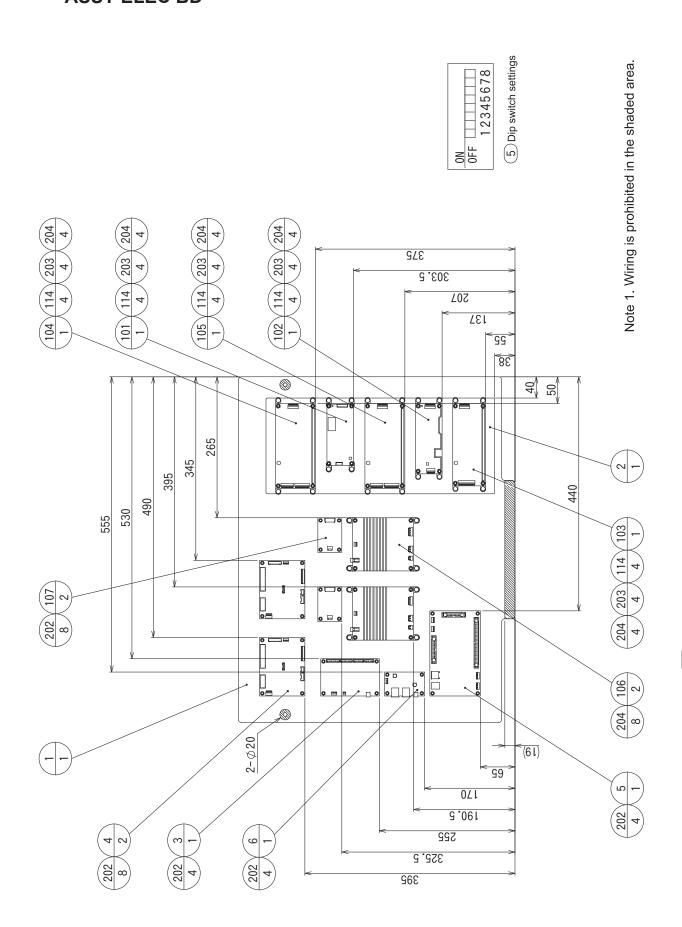
Attaching position for ① to ②

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1461	SW BRKT	
2	421-12136	STICKER SW PANEL LCA	
101	838-14548-10	SW & VOL BD	
201	000-P00308-W	M SCR PH W/FS M3x8	
301	MMT-60056	WH SW VOL	

(18) MMT-4100 **(D-1/2)**
    ASSY ELEC BD

Note 1. Wiring is prohibited in the shaded area.

⑤ Dip switch settings

19

(18) MMT-4100   (D-2/2)
ASSY ELEC BD
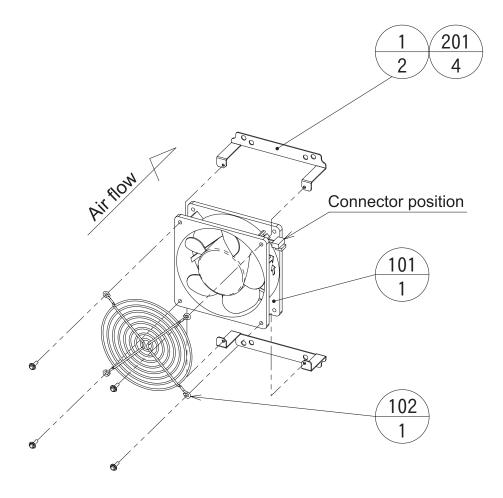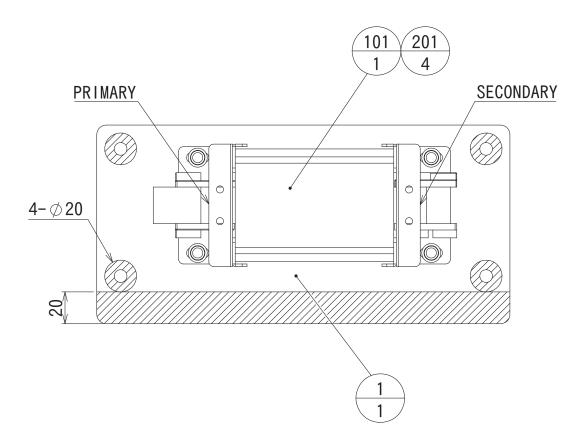
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-4101	WOODEN BASE ELEC BD	
2	MMT-4103	SHIELD SHEET	
3	837-15067-02	IC BD USB TO 4SERIAL 232 IF	
4	837-15070-04	IC BD LED DRV32CH RS232	
5	837-15257-01	I/O CONTROL BD 4 FOR USB	
6	837-20008	4PORT USB HUB BD MINIB TO A	
101	400-5464-01505	SW REGU VS15C-5	
102	400-5464-03005	SW REGU VS30C-5	
103	400-5489-10012	SW REGU VS100E-12	
104	400-5489-15012	SW REGU VS150E-12	
105	400-5489-15024	SW REGU VS150E-24	
106	838-15228	2.1CH 40W STEREO AMP BD	
107	839-1363-01	HEADPHONE AMP BD SHC	
108	270-5116	FERRITE CORE TDK ZCAT2032-0930	
109	270-5117	FERRITE CORE TDK ZCAT3035-1330	
111	280-7892	CORD CLAMP TL-19AN	
112	280-6676	CORD CLAMP TL-25A TKK	
113	280-5207	HARNESS LUG CC-1005	
114	280-6681	L-LOCK LT-320PCG	
201	011-T03512	TAP SCR TH 3.5x12	
202	011-P00325	TAP SCR PH 3x25	
203	000-P00308-W	M SCR PH W/FS M3x8	
204	011-T03516	TAP SCR TH 3.5x16	
205	011-F00312	TAP SCR #1 FH 3x12	
301	MMT-60009	WH SW REGU AC	
302	MMT-60010	WH AMP 24V	
303	MMT-60011	WH AMP IN	
304	MMT-60012	WH AMP OUT	
305	MMT-60013	WH AMP VOLUME	
306	MMT-60014	WH H AMP OUT 1P	
307	MMT-60015	WH H AMP OUT 2P	
308	MMT-60021	WH LED DRV 12V	
309	MMT-60022	WH I/O BD 5V	
310	MMT-60023	WH USB BD 5V	
311	MMT-60024	WH LED DRV SERIAL 1P	
312	MMT-60025	WH LED DRV SERIAL 2P	
313	MMT-60026	WH LED DRV OUT 1P	
314	MMT-60027	WH LED DRV OUT 2P	
315	MMT-60028	WH I/O BD	
316	600-8292-050	USB CABLE A-MINI B 050CM K	

19

(19) 610-0963
ASSY DC 12V FAN 120MM

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	105-5561-92	FAN BRKT	
101	260-0154	FAN DC12V 11938KA-12M-EA-03	
102	601-12939	FAN GUARD 120 TOA R109-8	
102	601-12940	FAN GUARD 120 SANYO 109-019E	
102	601-8543	FAN GUARD	
201	000-P00312-W	M SCR PH W/FS M3x12	

19

(20) MMT-4200
ASSY XFMR

PRIMARY

SECONDARY

101 / 1   201 / 4

4−∅20

1 / 1

20

Note 1. Wiring is prohibited in the shaded area.
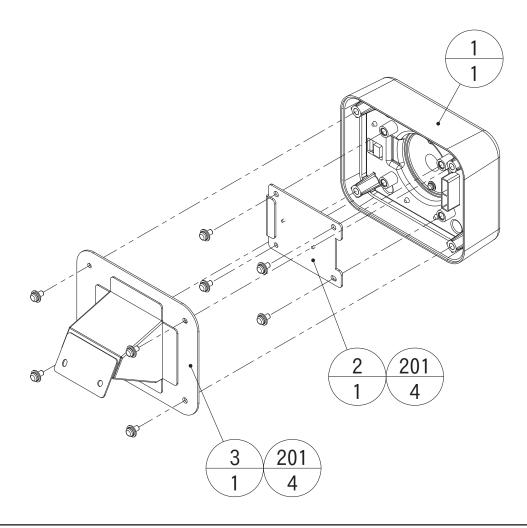
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-4201	WOODEN BASE XFMR	
101	560-5630-V	XFMR 220-240V 100V7.5A NCW V	HONG KONG
	560-5628-V	XFMR 100-120V 100V7.5A NCW V	TAIWAN
102	280-7892	CORD CLAMP TL-19AN	
201	000-P00510-W	M SCR PH W/FS M5x10	
202	011-F00312	TAP SCR #1 FH 3x12	

19

(21) MMT-6001
ASSY WIRE 1P

This is comprised of the following wire harnesses. ASSY drawing is not available.
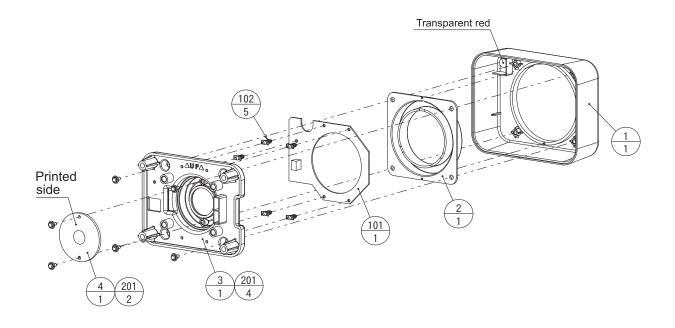
ITEM NO.	PART NO.	DESCRIPTION	NOTE
101	601-0460	PLASTIC TIE BELT 100 M/M	
102	MMT-60016	WH EXT HEADPHONE 2P 1	
103	MMT-60017	WH EXT AUDIO	
104	MMT-60030	WH EXT WHITE LED 2P 1	
105	MMT-60031	WH EXT SW BASE SENSOR 2P 1	
106	MMT-60032	WH EXT SW BASE LED 2P 1	
107	MMT-60040	WH EXT COIN 1	
108	MMT-60042	WH EXT BILLBOARD	
109	MMT-60045	WH EXT COM & DC	
110	MMT-60046	WH EXT PLAYER CAMERA LED	
111	600-7157-1650	WIRE HARN EARTH ID5 40U 1650MM	
112	600-7157-2800	WIRE HARN EARTH ID5 40U 2800MM	

19

(22) MMT-1350
ASSY PLAYER CAMERA
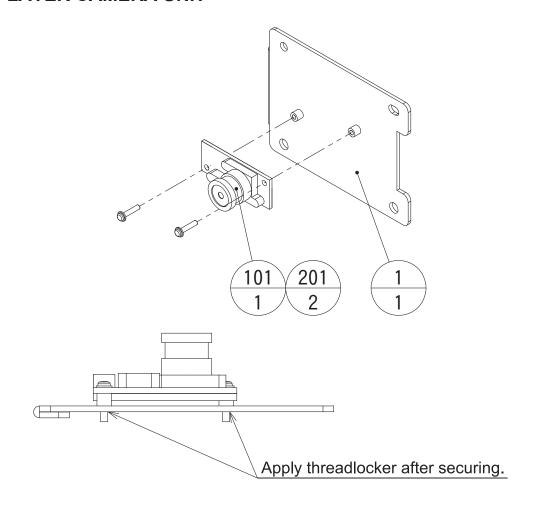
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1360	ASSY PLAYER CAMERA COVER	
2	MMT-1370	PLAYER CAMERA UNIT	
3	MMT-1351	PLAYER CAMERA BASE	
101	601-0460	PLASTIC TIE BELT 100 M/M	
201	000-P00408-W	M SCR PH W/FS M4x8	
301	MMT-60047	WH PLAYER CAMERA LED	
302	600-8307	USB CABLE A-ZHR5	

19

(23) MMT-1360
ASSY PLAYER CAMERA COVER

Transparent red

Printed side

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1361	PLAYER CAMERA COVER	
2	MMT-1362	PLAYER CAMERA RING COVER	
3	MMT-1363	PLAYER CAMERA INNER BASE	
4	MMT-1364	PLAYER CAMERA LENS COVER	
101	390-7245	LED RING WARM COLOR 21+1	
102	280-7896-05	SPACER WN-05G (HIROSUGI)	OR
	280-7909	SPACER PHI3 L=4.8	OR
201	000-P00308-W	M SCR PH W/FS M3x8	

19

(24) MMT-1370
PLAYER CAMERA UNIT

Apply threadlocker after securing.
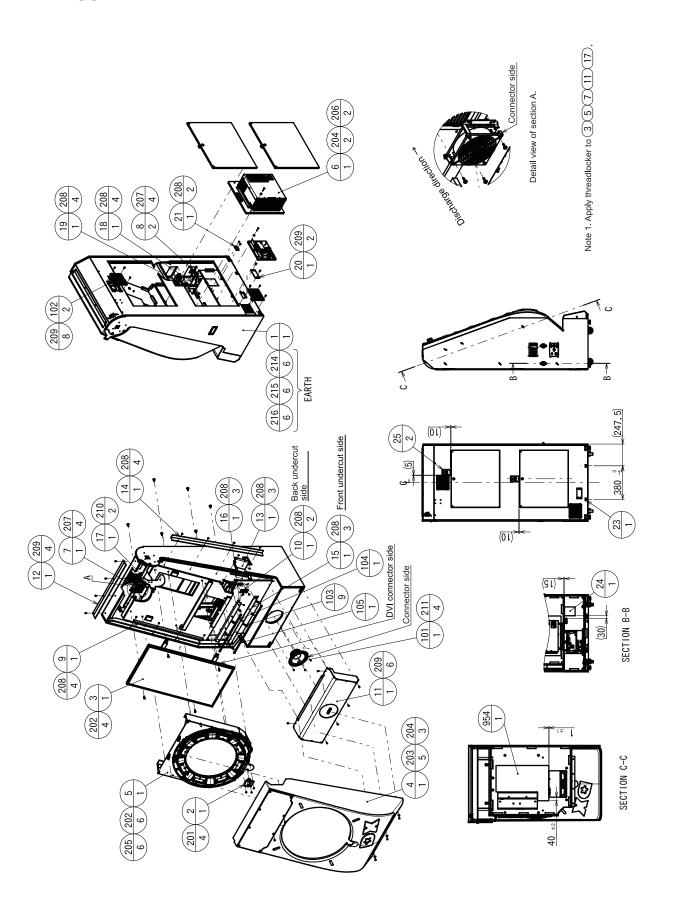
Note 1. The tightening torque for (101) must be 0.11±0.01N・m.

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1371	PLAYER CAMERA BRKT	
101	601-13249	CAMERA KBCR-S03MU-HPB2033-C300	
102	280-7892	CORD CLAMP TL-19AN	
201	FAS-000203	M SCR PH W/S M2x10	

19

(25) MMT-1500
ASSY CABINET 2P

(D-1/3)

Note 1. Apply threadlocker to ③ ⑤ ⑦ ⑪ ⑰.

Detail view of section A.

Connector side

Discharge direction

EARTH

Back undercut side

Front undercut side

DVI connector side

Connector side

SECTION B-B

SECTION C-C

19

(25) MMT-1500   (D-2/3)
ASSY CABINET 2P
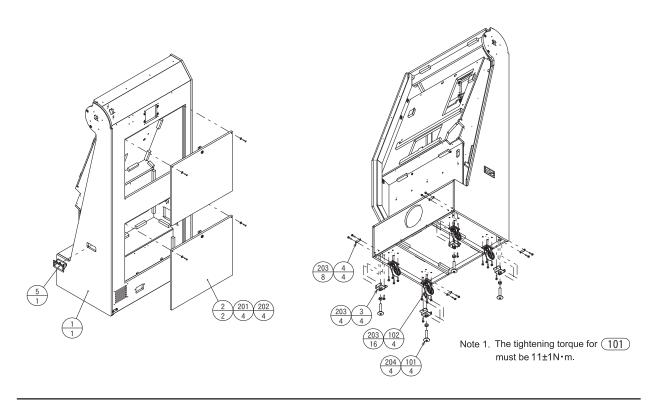
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1501	ASSY SUB CABINET 2P	
2	MMT-1070	ASSY HEADPHONE JACK COVER	
3	MMT-1100	ASSY LCD	
4	MMT-1600	ASSY FRONT COVER 2P	
5	MMT-1700	ASSY SW BASE 2P	
6	MMT-4000	ASSY GAME BD	
7	610-0963	ASSY DC 12V FAN 120MM	
8	MMT-1520	JOINT PIN 2P BRKT	
9	MMT-1021	CABINET EDGE COVER	
10	MMT-1022	FRONT LED CONN PLATE	
11	MMT-1521	FOOT COVER 2P	
12	MMT-1028	FRONT COVER SASH	
13	MMT-1525	CABINET INNER REFLECTOR 2P	
14	MMT-1034	CABINET INNER REFLECTOR REAR	
15	MMT-1035	FRONT LED BRKT LOWER	
16	MMT-1036	FRONT LED BRKT UPPER	
17	MMT-1526	SIDE COVER REFLECTOR 2P	
18	MMT-1522	JOINT CONN BRKT LOWER	
19	MMT-1523	JOINT CONN BRKT UPPER	
20	MMT-1524	LAN LID	
21	105-5639	EARTH PLATE	
23	421-11416	STICKER CAUTION FORK	
24	421-14237-01-91	STICKER GAME BD MMT EXP	
25	440-WS0002YEG	STICKER W POWER OFF ENG	
101	130-5280-01	WOOFER 4OHM 80W	
102	253-5460-01	AIR VENT BLACK	
103	280-8001	CLAMP LWSM-0511 CLEAR NIX	
104	390-7244-0525	LED TAPE WHITE M3528W-A 0525MM	
105	390-7244-0675	LED TAPE WHITE M3528W-A 0675MM	
106	280-7892	CORD CLAMP TL-19AN	
107	280-6676	CORD CLAMP TL-25A TKK	
108	280-5207	HARNESS LUG CC-1005	
109	280-5275-SR10	CORD CLAMP SR10	
201	000-P00408-W	M SCR PH W/FS M4x8	
202	030-000630-WB	HEX BLT W/FS BLK M6x30	
203	FAS-080040	TMP PRF SCR PH W/FS STN M4x20	
204	068-441616-0C	FLT WSHR CRM 4.4-16x1.6	
205	068-652016	FLT WSHR 6.5-20 X1.6	
206	000-P00435-S	M SCR PH W/S M4x35	
207	000-P00416-W	M SCR PH W/FS M4x16	
208	011-T03512	TAP SCR TH 3.5x12	
209	000-T00416-0B	M SCR TH BLK M4x16	
210	000-F00412-0B	M SCR FH BLK M4x12	
211	FAS-110032	TAP SCR PH #1 BLK 4x12	
212	011-F00312	TAP SCR #1 FH 3x12	

19

(25) MMT-1500
ASSY CABINET 2P

(D-3/3)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
213	000-P00308-W	M SCR PH W/FS M3x8	
214	060-F00400	FLT WSHR M4	
215	060-S00400	SPR WSHR M4	
216	050-H00400	HEX NUT M4	
301	MMT-6002	ASSY WIRE 2P	
302	MMT-60005	WH AC 3	
303	MMT-60006	WH EXT ROUTER AC	
304	MMT-60057	WH WOOFER 2P	
305	600-8206-100	CA USB A-A(FEM) FOR PNL 100CM	
306	600-8245	AC CABLE VL3P 7A W/E	
307	600-8248-2000	ASSY CA DVI-D EMC 2000MM KDK	
308	600-8272-100	CA USB3.0 A-A(F) FOR PNL 100CM	
954	MMT-1527	SHIELD SHEET CABINET 2P INNER	

19

(26) MMT-1501
ASSY SUB CABINET 2P

Note 1. The tightening torque for (101) must be 11±1N・m.
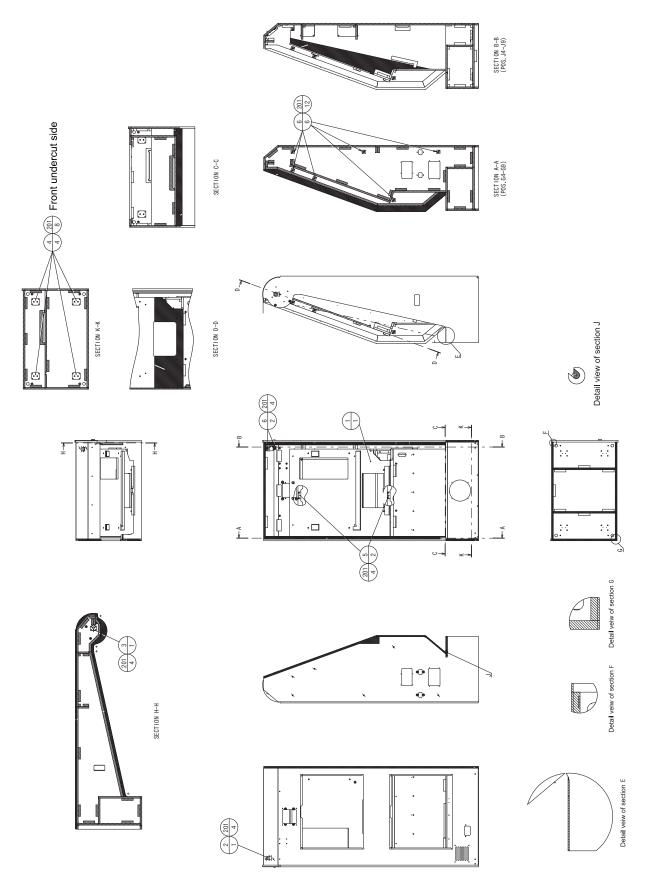
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1502	CABINET 2P	
2	MMT-1550	ASSY BACK DOOR 2P	
3	MMT-1007X	LEG BRKT	
4	117-5233-91	PLATE LEG BRACKET BLACK	
5	253-5396-91	CABINET HANDLE	
101	601-5699X	LEG ADJUSTER BOLT M16x75	
102	601-11223	CASTER 75 PAU	
201	000-T00425-0B	M SCR TH BLK M4x25	
202	068-441616-0B	FLT WSHR BLK 4.4-16x1.6	
203	030-000630-WB	HEX BLT W/FS BLK M6x30	
204	050-H01600-3	HEX NUT TYPE3 M16	

19

(27) MMT-1502
CABINET 2P

(D-1/2)

Front undercut side

SECTION B-B
(POS. J4-J9)

SECTION A-A
(POS. G4-G9)

SECTION C-C

SECTION K-K

SECTION D-D

Detail view of section J

Detail view of section G

Detail view of section F

SECTION H-H

Detail view of section E

19

(27) MMT-1502
CABINET 2P
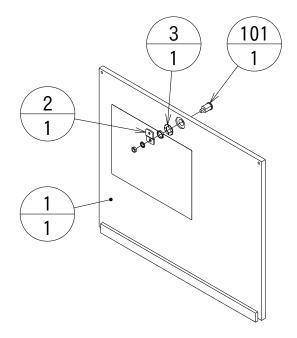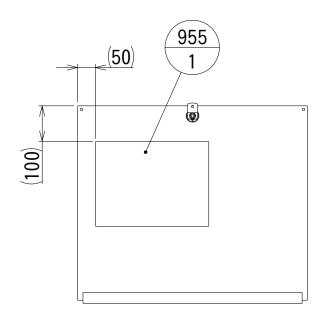
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1502-A	CABINET 2P BLANK	
2	MMT-1003	BILLBOARD HOLD BRKT	
3	MMT-1005	SIDE COVER BASE CONN BRKT	
4	CTF-1104	CASTER NUT PLATE	
5	117-5098-91	TNG RETAINER PLATE	
6	117-5463	NUT PLATE M8	
201	011-T03512	TAP SCR TH 3.5x12	

19

(28) MMT-1550
ASSY BACK DOOR 2P
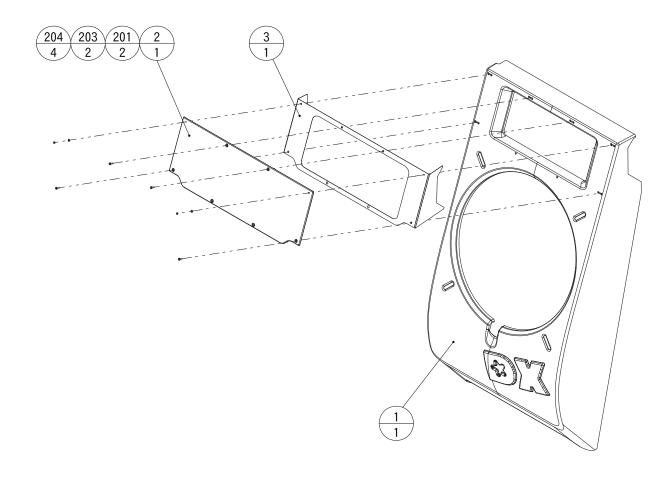
Attaching position of ⬭955⬭ to ①.
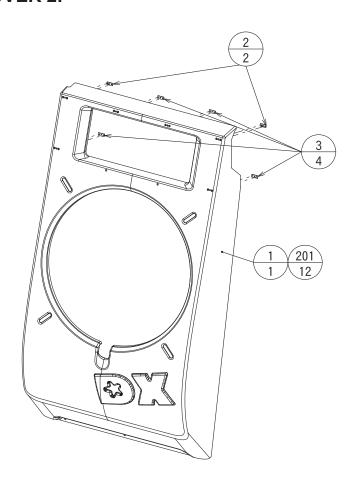
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1551	BACK DOOR 2P	
2	DP-1148X	LKG TNG	
3	117-0062	PLATE LOCK RETAINER	
101	220-5793-1-A001	CLY LOCK MASTER W/O KEY A001	
955	MMT-1552	SHIELD SHEET BACK DOOR 2P	

19

(29) MMT-1600
ASSY FRONT COVER 2P

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1610	FRONT COVER 2P	
2	MMT-1301	SUB MONITOR PLATE	
3	MMT-1601	FRONT COVER SHEET 2P	
201	FAS-600033	FLT WSHR STN M4	
203	050-C00400-3C	CAP NUT TYPE3 CRM M4	
204	FAS-080040	TMP PRF SCR PH W/FS STN M4x20	

19
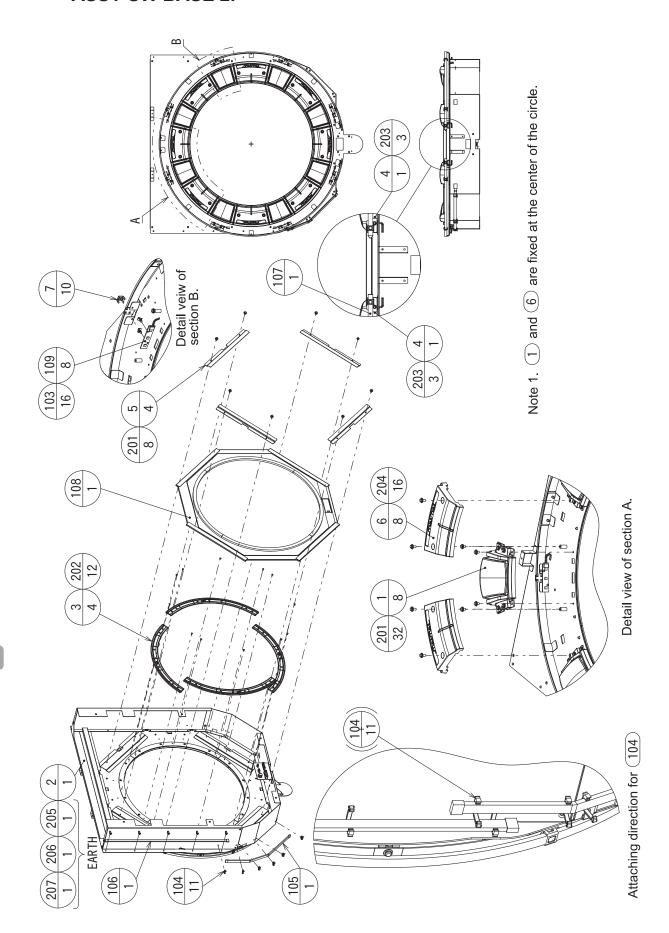
(30) MMT-1610
FRONT COVER 2P

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1611	FRONT COVER 2P BLANK	
2	MMT-1312	STUD PLATE	
3	TX-1029X-A	NUT PLATE	

19

(31) MMT-1700
ASSY SW BASE 2P

(D-1/2)

Note 1. ① and ⑥ are fixed at the center of the circle.

Detail veiw of section B.

Detail view of section A.

Attaching direction for ⑩⁴

EARTH

19

(31) MMT-1700 (D-2/2)
ASSY SW BASE 2P

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-2000	ASSY BUTTON SWITCH	
2	MMT-1201	SW BASE	
3	MMT-1202	TOUCH PANEL SPACER	
4	MMT-1203	TAPE LED SUPPORT	
5	MAI-1203	PANEL SASH	
6	MAI-1206X	SW COVER	
7	253-5748	TAPE LED HOLDER	
101	280-5275-SR10	CORD CLAMP SR10	
102	280-7892	CORD CLAMP TL-19AN	
103	280-7896-05	SPACER WN-05G (HIROSUGI)	
104	280-8001	CLAMP LWSM-0511 CLEAR NIX	
105	390-7244-0350	LED TAPE WHITE M3528W-A 0350MM	
106	390-7244-0525	LED TAPE WHITE M3528W-A 0525MM	
107	390-7244-2325	LED TAPE WHITE M3528W-A 2325MM	
108	509-6483	TOUCH SENSOR UNIT TPK	
109	838-15235-01	LED BD RGB 3x1BLOCK 5050	
201	000-P00408-W	M SCR PH W/FS M4x8	
202	000-F00308	M SCR FH M3x8	
203	FAS-000159	M SCR PH W/SMALL FS M3x8	
204	FAS-080036	TMP PRF SCR PH W/FS STN M4x10	
205	060-F00400	FLT WSHR M4	
206	060-S00400	SPR WSHR M4	
207	050-H00400	HEX NUT M4	
301	MMT-60036	WH SW BASE LED	
302	MMT-60037	WH SW BASE SENSOR	
303	MMT-60038	WH TOUCH SENSOR	
304	MMT-60039	WH BODY LED	
305	MMT-60041	WH HEADPHONE JACK	

19

(32) MMT-4000
ASSY GAME BD

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-4001	WOODEN BASE GAME BD	
2	849-1004	ASSY CASE ALLS HX2 W HDD	
3	105-5689	GAME BD BRKT	
201	000-P00408-W	M SCR PH W/FS M4x8	
202	000-P00416-W	M SCR PH W/FS M4x16	

(33) MMT-6002
ASSY WIRE 2P

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

ITEM NO.	PART NO.	DESCRIPTION	NOTE
101	601-0460	PLASTIC TIE BELT 100 M/M	
102	MMT-60018	WH EXT HEADPHONE 2P 2	
103	MMT-60019	WH ALLS AUDIO	
104	MMT-60020	WH ALLS COM	
105	MMT-60034	WH EXT SW BASE SENSOR 2P 2	
106	MMT-60035	WH EXT SW BASE LED 2P 2	
107	MMT-60052	WH EXT WHITE LED 2P 2	
108	MMT-60053	WH ALLS COM4	

19

(34) MMT-1800-01   **(D-1/2)**
        ASSY BILLBOARD

Note 1. Align speaker properly.
2. Apply threadlocker to ②

Connector position

Align speaker properly.

Attaching position of ④

S= 1/4

(34) MMT-1800-01   (D-2/2)
ASSY BILLBOARD
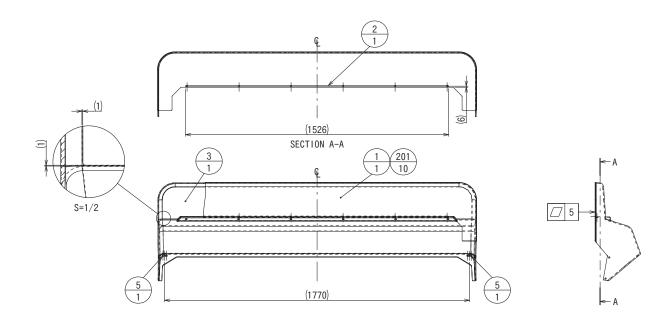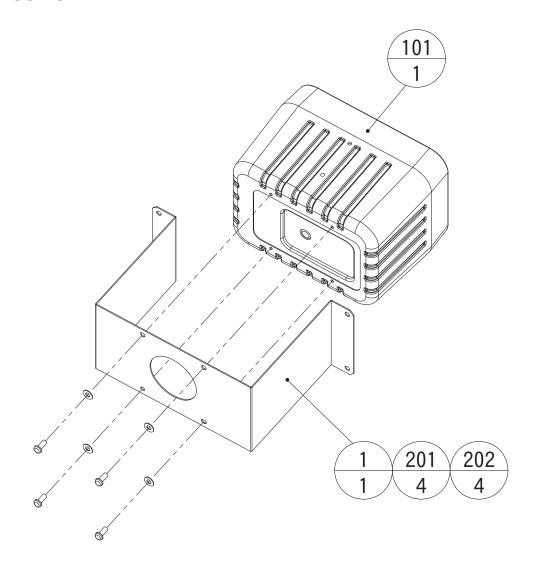
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1810-01	BILLBOARD COVER	
2	MMT-1850	ASSY SPEAKER	
3	MMT-1801X	BILLBOARD BASE	
4	MMT-1802	STICKER SPEAKER	
101	390-5768-0950	LED TAPE RGB 16.7 12V 0950MM	
102	390-5768-0100	LED TAPE RGB 16.7 12V 0100MM	
103	280-8002	CLAMP LWST-0512 CLEAR NIX	
104	280-7892	CORD CLAMP TL-19AN	
105	280-5275-SR10	CORD CLAMP SR10	
201	000-T00408-0C	M SCR TH CRM M4x8	
202	068-441616-0C	FLT WSHR CRM 4.4-16x1.6	
203	050-F00400	FLG NUT M4	
204	000-T00408-0B	M SCR TH BLK M4x8	
205	060-F00400	FLT WSHR M4	
206	060-S00400	SPR WSHR M4	
207	050-H00400	HEX NUT M4	
208	068-441616-0B	FLT WSHR BLK 4.4-16x1.6	
301	MMT-60043	WH BILLBOARD	

19

(35) MMT-1810-01
BILLBOARD COVER
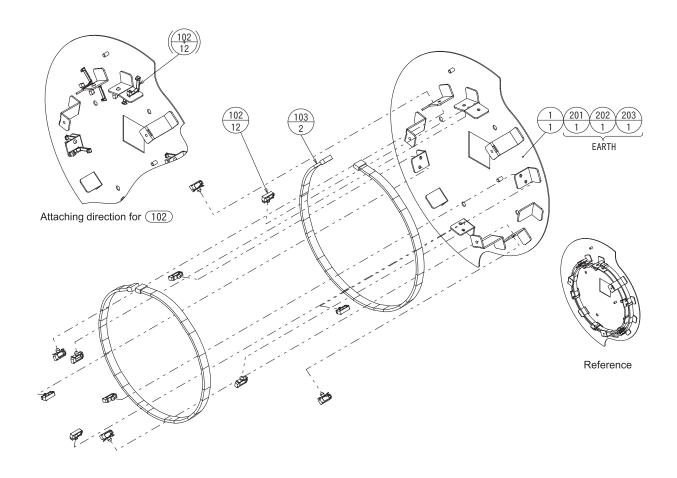
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1811	BILLBOARD COVER BLANK	
2	MMT-1815	BILLBOARD COVER SASH	
3	MMT-1813	REFLECTION SHEET A	
5	TX-1029X-A	NUT PLATE	

19

(36) MMT-1850
ASSY SPEAKER

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1851	SPEAKER BRKT	
101	130-5310	SPKR BOX 4OHM 40W S010D15104W	
102	280-5275-SR10	CORD CLAMP SR10	
201	012-P00512	TAP SCR #2 PH 5x12	
202	060-F00500	FLT WSHR M5	

19

(37) MMT-1900
ASSY SIDE COVER BASE 1P

Attaching direction for (102)

EARTH

Reference
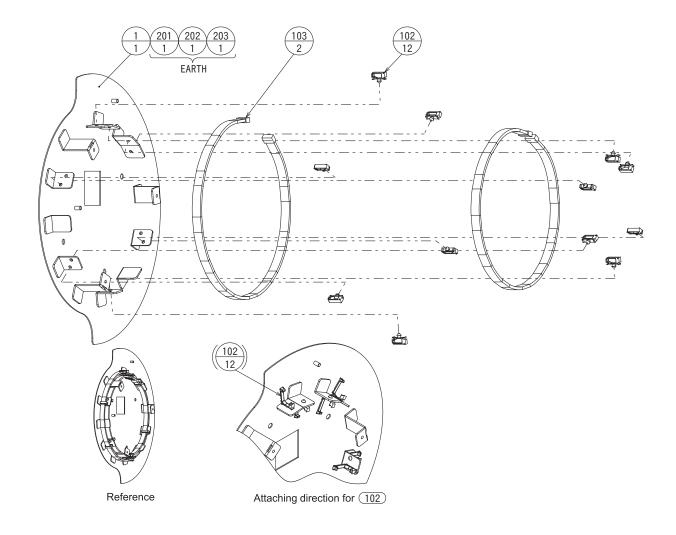
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1901	SIDE COVER BASE 1P	
101	280-5275-SR10	CORD CLAMP SR10	
102	280-8001	CLAMP LWSM-0511 CLEAR NIX	
103	390-7244-0525	LED TAPE WHITE M3528W-A 0525MM	
201	060-F00400	FLT WSHR M4	
202	060-S00400	SPR WSHR M4	
203	050-H00400	HEX NUT M4	
301	MMT-60044	WH SIDE HEADPHONE LED	

(38) MMT-1950
ASSY SIDE COVER BASE 2P

Reference

Attaching direction for (102)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-1951	SIDE COVER BASE 2P	
101	280-5275-SR10	CORD CLAMP SR10	
102	280-8001	CLAMP LWSM-0511 CLEAR NIX	
103	390-7244-0525	LED TAPE WHITE M3528W-A 0525MM	
201	060-F00400	FLT WSHR M4	
202	060-S00400	SPR WSHR M4	
203	050-H00400	HEX NUT M4	
301	MMT-60044	WH SIDE HEADPHONE LED	

19

19-2 ROUTER KIT
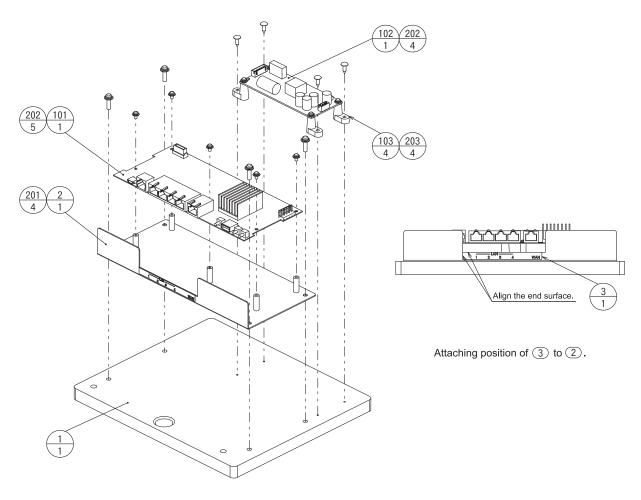
List formation chart

(1) XKT-2293-EX1 ————————————— (2) MMT-4300
ROUTER KIT MMT EXP   ASSY ROUTER

(1) XKT-2293-EX1
ROUTER KIT MMT EXP

ASSY drawing is not available.

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-4300	ASSY ROUTER	
401	420-7651-01	OWNERS MANUAL MMT ENG	
402	421-13001-63	INSTR SH MMT	
403	420-7653-01	SERVICE MANUAL ALLS HX2 ENG	
404	421-11708	STICKER SERVER	
405	540-0006-01	WRENCH M4 TMP SCR	
406	600-7269-0100	ASSY LAN CABLE 0100CM	
407	600-7269-5000	ASSY LAN CABLE 5000CM	
408	068-441616-0C	FLT WSHR CRM 4.4-16x1.6	
409	000-P00435-S	M SCR PH W/S M4x35	

19

(2) MMT-4300
ASSY ROUTER

Align the end surface.

Attaching position of ③ to ②.
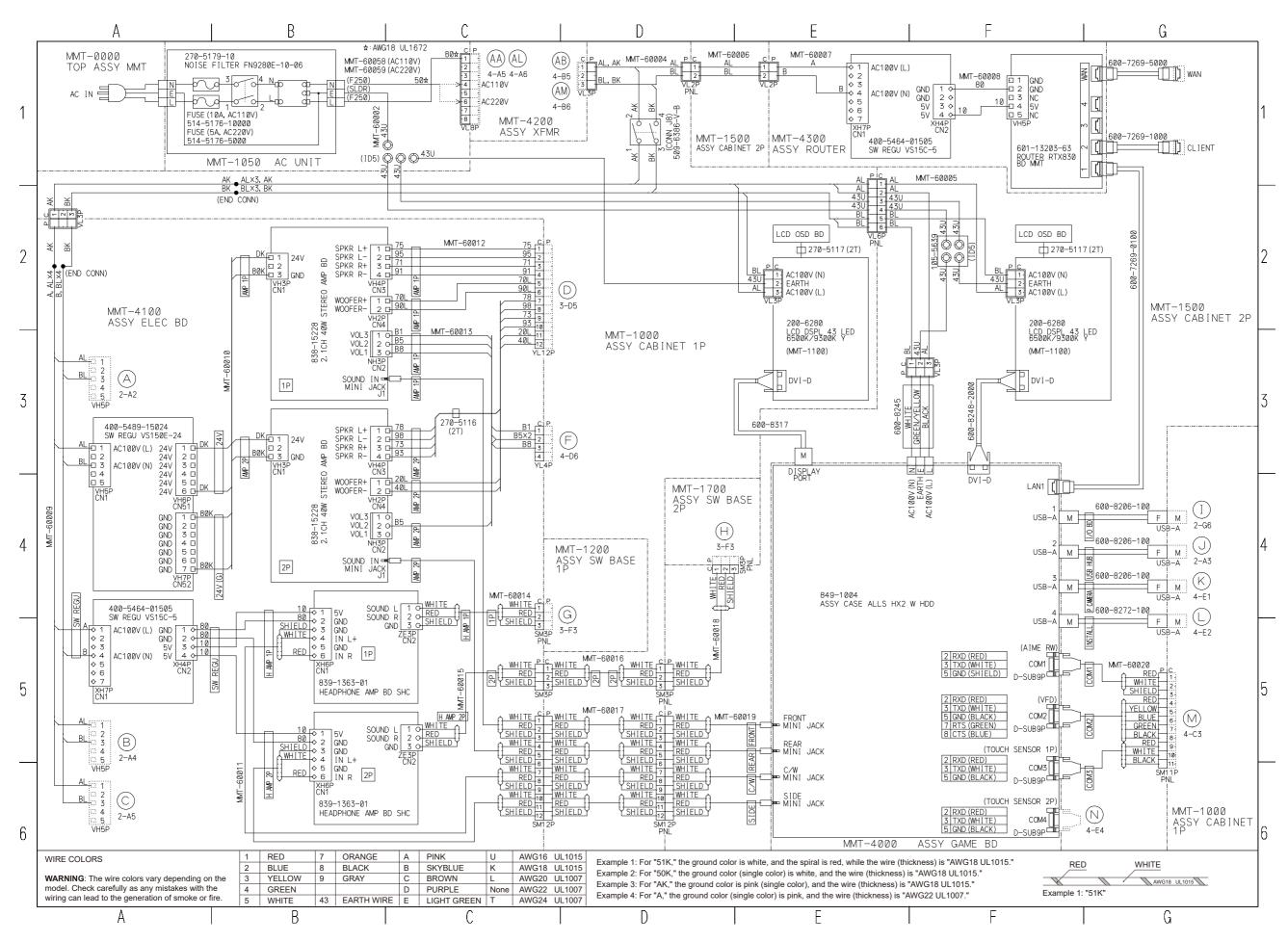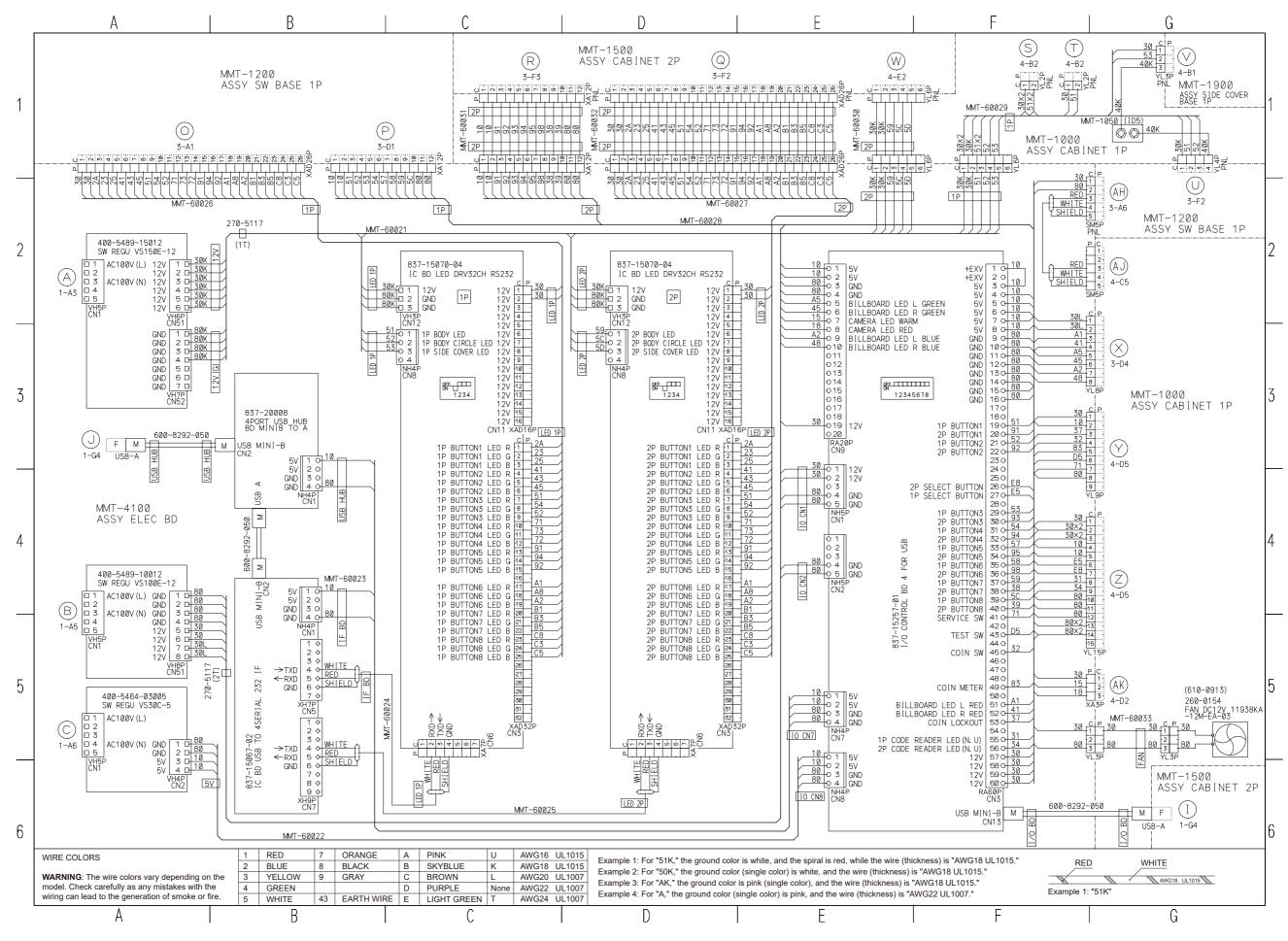
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	MMT-4301	WOODEN BASE ROUTER	
2	105-5700	ROUTER HOLDER FOR RTX830	
3	421-12471	STICKER WAN AND LAN	
101	601-13203-63	ROUTER RTX830 BD MMT	
102	400-5464-01505	SW REGU VS15C-5	
103	280-6681	L-LOCK LT-320PCG	
104	280-5207	HARNESS LUG CC-1005	
201	000-P00416-W	M SCR PH W/FS M4x16	
202	000-P00306-W	M SCR PH W/FS M3x6	
203	011-T03516	TAP SCR TH 3.5x16	
204	011-T03512	TAP SCR TH 3.5x12	
301	MMT-60007	WH ROUTER AC	
302	MMT-60008	WH ROUTER 5V	

20 WIRING DIAGRAM   CABINET (D-1/4)

MMT-0000 TOP ASSY MMT

AC IN

270-5179-10 NOISE FILTER FN9280E-10-06

FUSE (10A, AC110V) 514-5176-10000
FUSE (5A, AC220V) 514-5176-5000

MMT-1050 AC UNIT

✩ AWG18 UL1672
MMT-60058 (AC110V)
MMT-60059 (AC220V)
(F250) (SLDR) (F250)
AC110V
AC220V

MMT-60002 43U

MMT-4200 ASSY XFMR

4-A5 4-A6
4-B5
4-B6

AA AL AB AM

MMT-60004
MMT-60006
MMT-60007

3 CONN (JB) 509-5386-V-B

MMT-1500 ASSY CABINET 2P
MMT-4300 ASSY ROUTER
400-5464-01505 SW REGU VS15C-5

MMT-60008 80

601-13203-63 ROUTER RTX830 BD MMT

600-7269-5000 WAN
600-7269-1000 CLIENT

600-7269-0100

MMT-60005

AK ALx3, AK
BK BLx3, BK
(END CONN)

MMT-4100 ASSY ELEC BD

DK 24V
80K GND
VH3P CN1

838-15228 2.1CH 40W STEREO AMP BD
SPKR L+ 75
SPKR L- 95
SPKR R+ 71
SPKR R- 91
WOOFER+ 70L
WOOFER- 90L
VOL3 B1
VOL2 B5
VOL1 B8
NH3P CN2
SOUND IN MINI JACK J1

MMT-60012
MMT-60013

MMT-1000 ASSY CABINET 1P

LCD OSD BD 270-5117 (2T)
AC100V (N)
EARTH
AC100V (L)
200-6280 LCD DSPL 43 LED 6500K/9300K Y (MMT-1100)
DVI-D

LCD OSD BD 270-5117 (2T)
MMT-1500 ASSY CABINET 2P

400-5489-15024 SW REGU VS150E-24
AC100V (L) 24V
AC100V (N) 24V
VH6P CN51
GND 80K
VH7P CN52

838-15228 2.1CH 40W STEREO AMP BD
SPKR L+ 78
SPKR L- 98
SPKR R+ 73
SPKR R- 93
WOOFER+ 20L
WOOFER- 40L
VOL3 B5
VOL2
VOL1
NH3P CN2
SOUND IN MINI JACK J1

270-5116 (2T)
MMT-1700 ASSY SW BASE 2P
MMT-1200 ASSY SW BASE 1P

DISPLAY PORT
AC100V (N) EARTH AC100V (L)
DVI-D

849-1004 ASSY CASE ALLS HX2 W HDD

400-5464-01505 SW REGU VS15C-5
AC100V (L) GND
AC100V (N) 5V
XH4P CN2
XH7P CN1

839-1363-01 HEADPHONE AMP BD SHC
5V GND
SOUND L SOUND R
WHITE RED SHIELD
ZE3P CN2
XH6P CN1

MMT-60014
MMT-60015
MMT-60016

839-1363-01 HEADPHONE AMP BD SHC
SOUND L SOUND R
WHITE RED SHIELD

MMT-60017
MMT-60019

FRONT MINI JACK
REAR MINI JACK
C/W MINI JACK
SIDE MINI JACK

WHITE RED SHIELD
SM12P PNL

LAN1
600-8206-100 USB-A I/O BD I 2-G6
600-8206-100 USB-A USB HUB J 2-A3
600-8206-100 USB-A P.CAMERA K 4-E1
600-8272-100 USB-A INSTALL L 4-E2

(AIME RW)
RXD (RED) TXD (WHITE) GND (SHIELD) COM1 D-SUB9P
(VFD)
RXD (RED) TXD (WHITE) GND (BLACK) RTS (GREEN) CTS (BLUE) COM2 D-SUB9P
(TOUCH SENSOR 1P)
RXD (RED) TXD (WHITE) GND (BLACK) COM3 D-SUB9P
(TOUCH SENSOR 2P)
RXD (RED) TXD (WHITE) GND (BLACK) COM4 D-SUB9P

MMT-60020

MMT-1000 ASSY CABINET 1P

MMT-4000 ASSY GAME BD

WIRE COLORS

WARNING: The wire colors vary depending on the model. Check carefully as any mistakes with the wiring can lead to the generation of smoke or fire.

1	RED	7	ORANGE	A	PINK	U	AWG16 UL1015
2	BLUE	8	BLACK	B	SKYBLUE	K	AWG18 UL1015
3	YELLOW	9	GRAY	C	BROWN	L	AWG20 UL1007
4	GREEN			D	PURPLE	None	AWG22 UL1007
5	WHITE	43	EARTH WIRE	E	LIGHT GREEN	T	AWG24 UL1007

Example 1: For "51K," the ground color is white, and the spiral is red, while the wire (thickness) is "AWG18 UL1015."
Example 2: For "50K," the ground color (single color) is white, and the wire (thickness) is "AWG18 UL1015."
Example 3: For "AK," the ground color is pink (single color), and the wire (thickness) is "AWG18 UL1015."
Example 4: For "A," the ground color (single color) is pink, and the wire (thickness) is "AWG22 UL1007."

RED   WHITE
AWG18 UL1015
Example 1: "51K"

CABINET (D-2/4)

MMT-1200
ASSY SW BASE 1P

MMT-1500
ASSY CABINET 2P

MMT-1900
ASSY SIDE COVER
BASE 1P

MMT-1000
ASSY CABINET 1P

MMT-1200
ASSY SW BASE 1P

400-5489-15012
SW REGU VS150E-12

837-15070-04
IC BD LED DRV32CH RS232

837-15070-04
IC BD LED DRV32CH RS232

837-20008
4PORT USB_HUB
BD MINIB TO A

MMT-4100
ASSY ELEC BD

400-5489-10012
SW REGU VS100E-12

837-15067-02
IC BD USB TO 4SERIAL 232 IF

400-5464-03005
SW REGU VS30C-5

837-15257-01
I/O CONTROL BD 4 FOR USB

(610-0913)
260-0154
FAN DC12V 11938KA
-12M-EA-03

MMT-1500
ASSY CABINET 2P

WIRE COLORS									
1	RED	7	ORANGE	A	PINK	U		AWG16	UL1015
2	BLUE	8	BLACK	B	SKYBLUE	K		AWG18	UL1015
3	YELLOW	9	GRAY	C	BROWN	L		AWG20	UL1007
4	GREEN	43	EARTH WIRE	D	PURPLE	None		AWG22	UL1007
5	WHITE			E	LIGHT GREEN	T		AWG24	UL1007

WARNING: The wire colors vary depending on the model. Check carefully as any mistakes with the wiring can lead to the generation of smoke or fire.

Example 1: For "51K," the ground color is white, and the spiral is red, while the wire (thickness) is "AWG18 UL1015."
Example 2: For "50K," the ground color (single color) is white, and the wire (thickness) is "AWG18 UL1015."
Example 3: For "AK," the ground color is pink (single color), and the wire (thickness) is "AWG18 UL1015."
Example 4: For "A," the ground color (single color) is pink, and the wire (thickness) is "AWG22 UL1007."

Example 1: "51K"

CABINET (D-3/4)

MMT-4100 ASSY ELEC BD
MMT-1500 ASSY CABINET 2P

MMT-4100 ASSY ELEC BD
MMT-1500 ASSY CABINET 2P

12V LED R / LED G / LED B 838-15235-01 LED BD RGB 3X1BLOCK 5050 PH4P

(MMT-2000) 370-5359 PHOTO INTERRUPTER OJ-535S-A5

MAI-60305

5V VOUT GND CT3P

MMT-60036
MMT-60037

(END CONN)
(END CONN)

2-B1
3-G3

XA12P PNL

MMT-60039
390-7244-2325 LED TAPE WHITE M3528W-A 2325MM 12V GND YL2P 2-G2 AG 4-F3
390-7244-0350 LED TAPE WHITE M3528W-A 0350MM 12V GND YL2P
390-7244-0525 LED TAPE WHITE M3528W-A 0525MM 12V GND YL2P

40K (ID5)

837-20015 HEADPHONE JACK BD LEFT RIGHT WHITE RED GND MMT-60041 WHITE RED SHIELD G 1-D4 H 1-D4

MINI JACK CN2 (MMT-1070) PH4P CN1 SM3P PNL

MMT-1000 ASSY CABINET 1P
MMT-1500 ASSY CABINET 2P
MMT-1700 ASSY SW BASE 2P
MMT-60034

MMT-60035

MMT-1000 ASSY CABINET 1P
MMT-60043

12V 390-5768-0950 LED TAPE RGB 16.7 12V 0950MM (BILLBOARD LEFT)
12V 390-5768-0950 LED TAPE RGB 16.7 12V 0950MM (BILLBOARD RIGHT)
12V 390-5768-0100 LED TAPE RGB 16.7 12V 0100MM (BILLBOARD LEFT)
12V 390-5768-0100 LED TAPE RGB 16.7 12V 0100MM (BILLBOARD RIGHT)

MMT-60042 YL8P

(MMT-1080) LEFT
130-5310 SPKR BOX 4OHM 40W S010D15104W
(MMT-1080) RIGHT

(MMT-1080) LEFT
130-5310 SPKR BOX 4OHM 40W S010D15104W
(MMT-1080) RIGHT

40K (ID5) MMT-1050
40K (ID5)

MMT-1800-01 ASSY BILLBOARD

MMT-4100 ASSY ELEC BD

130-5280-01 WOOFER 4OHM 80W

MMT-1500 ASSY CABINET 2P

CON1

L8 L1
B8 B1
L7 B7 B2 L2
L6 B6 B3 L3
B5 B4
L5 L4

MMT-1200 ASSY SW BASE 1P
MMT-1700 ASSY SW BASE 2P

MMT-60038 12V GND XA2P CON4
509-6483 TOUCH SENSOR UNIT TPK
RXD TXD GND XA6P CON3

WHITE RED SHIELD

WIRE COLORS							
1	RED	7	ORANGE	A	PINK	U	AWG16 UL1015
2	BLUE	8	BLACK	B	SKYBLUE	K	AWG18 UL1015
3	YELLOW	9	GRAY	C	BROWN	L	AWG20 UL1007
4	GREEN			D	PURPLE	None	AWG22 UL1007
5	WHITE	43	EARTH WIRE	E	LIGHT GREEN	T	AWG24 UL1007

WARNING: The wire colors vary depending on the model. Check carefully as any mistakes with the wiring can lead to the generation of smoke or fire.

Example 1: For "51K," the ground color is white, and the spiral is red, while the wire (thickness) is "AWG18 UL1015."
Example 2: For "50K," the ground color (single color) is white, and the wire (thickness) is "AWG18 UL1015."
Example 3: For "AK," the ground color is pink (single color), and the wire (thickness) is "AWG18 UL1015."
Example 4: For "A," the ground color (single color) is pink, and the wire (thickness) is "AWG22 UL1007."

RED WHITE AWG18 UL1015
Example 1: "51K"

20

CABINET (D-4/4)

SEGA AMUSEMENTS OFFICES

Sega Amusements

Europe

42, Barwell Business Park, Leatherhead Road, Chessington, Surrey, KT9 2NY United Kingdom

Telephone: +44 (0) 208 391 8060
Facsimile: +44 (0) 208 391 8096

e-mail: sales@segaarcade.com
http://www.segaarcade.com/

U.S.A.

Telephone:
   General Parts: +1 224 265 4287
   General Tech: +1 224 265 4283
Facsimile: +1 630 860 7775

SEGA Interactive Co., Ltd.

Sumitomo Fudosan Osaki Garden Tower 1-1-1 Nishi-Shinagawa, Shinagawa-ku, Tokyo 141-0033 , Japan

DISTRIBUTOR

Sega Logistics Service Co., Ltd.

6F Kamata Higashi-Nihon Bldg., 1-1-25, Minami Kamata, Ohta-ku, Tokyo, 144-0035 JAPAN

Telephone: +81-(0)3-6428-7605
Facsimile: +81-(0)3-6428-7613