

Star Wars: Battle Pod

• To ensure safe operation of the products, be sure to read this Operation Manual before use. • Keep this operation manual, along with the projector operation manual in a safe place where is can be quickly accessed whenever needed.

The specifications of the machine and the contents of this operation manual are subject to change without prior notice due to product improvements.

Star Wars: Battle Pod

OPERATION MANUAL

First Edition

BANDAI NAMCO

Games

Inc.

Part No. 737-163 First Edition Published in December 2014

BANDAI NAMCO Games Inc.

2743001200



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The actual product may differ slightly from the illustrations in this manual.

Introduction

Thank you very much for purchasing the Star Wars: Battle Pod (referred to as "this machine" in this Operation Manual).

This Operation Manual describes:

- How to properly understand this machine.
- How to safely install, move, transport, operate, service and dispose of the machine.
- How to operate the machine properly and make full use of its functions.
- How to ensure the safety of players and bystanders.

The following manual is provided with this Operation Manual as a separate volume.

• Operation manual for the projector (NP-PE401H (V1))

Contact for Machine and Machine Repair Inquiries

• For inquiries regarding the machine or machine repairs, contact your distributor.

The copyrights, trademarks and other rights used by the machine are noted at the end of this Operation Manual.

1. Safety Precautions - Be sure to read to ensure safe operation -

Instructions to the Owner

If you delegate the work for installing, moving, transporting, operating, maintaining or disposing of this machine to other people, ensure that these people read the relevant sections of this operation manual carefully before starting work, and observe the corresponding precautions.

1-1 Levels of Risk

The safety and property damage precautions on the machine labels and in this Operation Manual are classified according to their risk level, as follows.

WARNING : Failure to avoid these risks may result in serious injury or death

CAUTION : Failure to avoid these risks may result in light injury or damage to other property

Notes about functionality that are not related to safety are indicated by the following symbol.



: Information about product functions or protection

1-2 Definition of "Technician"

This Operation Manual is designed for arcade personnel. However, the sections marked "Must be performed by a technician" in the Table of Contents are written for technicians. These must be performed by technicians only.

A **technician** is a person involved in the design, manufacture, inspection, maintenance or service at an amusement device manufacturer, or a person involved in routine maintenance or management (such as repair) of amusement devices who has specialized knowledge of electricity, electronics or mechanical engineering equivalent to or higher than a technical high school graduate.

1-3 Critical Safety Precautions



- Should any abnormalities occur, turn off the power switch immediately to stop operations. Then, be sure to disconnect the power cord plug from the outlet. Operating the machine while the abnormality persists may result in fire or accident.
- Sections of the projector unit will remain hot and contain high voltage even after the power switch is turned off. In order to avoid electric shock or burns, be very careful not to accidentally touch these sections.
- Dust accumulating on the power cord plug may result in fire. Inspect the plug regularly and remove any dust.
- Fully insert the power cord plug into the outlet. Poor contact may generate heat and result in fire or burns.
- Damage to the power cord may result in fire, electric shock or electrical leakage. Be sure to observe the following.
 - Keep the power cord away from heaters.
 - Do not twist the power cord.
 - Do not forcibly bend the power cord.
 - Do not alter the power cord.
 - Do not bundle the power cord.
 - Do not pull the power cord. (Always unplug by holding the plug and not the power cord.)
 - Do not place objects on the power cord.
 - Do not allow the power cord to be caught between the machine and other devices or the wall.
 - Do not do anything else that might damage the power cord.
- Do not expose the power cord and power cord plug to water. Doing so may result in electric shock or electrical leakage.
- Do not touch the power cord plug with wet hands. Doing so may result in electric shock.
- The power capacity of the machine is as follows:
 - Models operating on 110 and 120 VAC: Maximum current consumption is 7.5 A
 - Models operating on 220 and 230 VAC: Maximum current consumption is 3.9 A
 - To prevent fire and electric shock, use indoor wiring that conforms to these power supply specifications.

• Use the machine with the power supply voltage in the following ranges:

- Model operating on 110 VAC: 100 to 120 VAC
- Model operating on 120 VAC: 110 to 130 VAC
- Model operating on 220 VAC: 210 to 230 VAC
- Model operating on 230 VAC: 220 to 240 VAC

Using a voltage outside this range may result in fire or electric shock.

However, to optimize use of the machine, operate the machine with the following power supply voltages as much as possible:

- Model operating on 110 VAC: 110 VAC
- Model operating on 120 VAC: 120 VAC
- Model operating on 220 VAC: 220 VAC
- Model operating on 230 VAC: 230 VAC

 In order to ensure safe use of the machine, be sure to perform the pre-operation inspection (P-26 "7-3 Pre-operation Inspection" and P-90 "8B. Service") described in this Operation Manual. Omitting these inspections or service may result in an accident.

WARNING

- Use the consumables and service parts (including screws) that are specified by BANDAI NAMCO Games Inc. To request repairs or to order parts, contact your distributor.
- Do not modify the machine without permission. Do not perform any operations that are not described in this Operation Manual. Modifying the machine may create unforeseen hazards.
- If you decide to transfer ownership of this machine, be sure to provide this Operation Manual along with the operation manual for the projector with the machine.

- The projector of this machine uses a mercury lamp as a light source. The internal pressure of this lamp increases when lit. This lamp has the characteristics shown below. Be sure to fully understand these points, and handle the lamp with sufficient care.
 - Impact, degradation or other factors may cause the lamp to burst, emit loud noise, or reach the end of its life and no longer light up.
 - The time until the lamp bursts or reaches the end of its life differs according to the lamp.
 - Continued use past the replacement time increases the risk of the lamp bursting.
 - If the lamp bursts, glass shards may scatter inside the machine and exit the machine through the ventilation holes or other openings.
 - If the lamp bursts, the tiny amount of mercury gas sealed inside the lamp may be discharged together with glass particles from the ventilation holes of the projector unit or other openings.
 - Check the lamp operating time occasionally using Test mode, and prepare a new lamp when the replacement time approaches. (See P-42 "(d) PROJECTOR TEST".)
- If the lamp breaks...
 - Should the lamp, lens or other glass part break, handle any glass shards with care to avoid injury or damage, and contact your distributor.
 - Should the lamp burst, disconnect the power cord plug of the machine from the outlet, evacuate the room, and ventilate the room thoroughly. Then, clean the area around the machine thoroughly, and dispose of any foodstuffs that were located around the machine.
 - If you suspect that glass particles or mercury gas entered your eyes or that you may have breathed in these substances when the lamp burst, consult a doctor immediately.

1-4 Machine Warning Labels



- The warning labels attached to the machine contain important information for ensuring safety. Be sure to observe the following.
 - In order to ensure that the warning labels attached to the machine are always clearly visible, install the machine in an appropriate, sufficiently lit location and keep the labels clean at all times. Also, make sure that the labels are not hidden by other machines or objects.
 - Do not remove or alter the warning labels.
 - If a warning label becomes excessively dirty or damaged, replace it with a new one. To order warning labels, contact your distributor.







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2. Specifications

(1) Rated power supply	110 VAC 110 V \pm 10 VAC
	120 VAC 120 V \pm 10 VAC
	220 VAC 220 V \pm 10 VAC
	230 VAC 230 V \pm 10 VAC
(2) Rated power consumption	880 W (110 VAC / 120 VAC)
	880 W (220 VAC / 230 VAC)
(3) Maximum current consumption	7.5 A (110 VAC / 120 VAC)
	3.9 A (220 VAC / 230 VAC)
(4) Display unit	180° dome screen + projector with special lens
(5) Dimensions	

[1] When installed

 Main unit:
 Width (W) 1,880 x Depth (D) 1,700 x Height (H) 2,050 [mm]

 Installation size:
 Width (W) 1,880 x Depth (D) 1,700 x Height (H) 2,400 [mm]





To Purchase This Item : Visit Our Website : www.bmigaming.com | Global Sales : + 561.391.7200 | USA / CA : 1.800.746.2255 2. Specifications







(6) Weight

[1] When installed	375 kg	
[2] When disassembled	 Front assembly 	160 kg
	\cdot Rear assembly	180 kg
	· Projector unit	10 kg



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8B
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Specifications

3. Package Contents

The following items (three packages) are included when this machine is shipped.



- Make sure that all the items below are contained in the product packages.
- If any items are missing, contact your distributor.
- The packing boxes are reused when transporting the machine, so store them in a safe place and do not dispose of them.
- Be sure to pack the projector unit in the dedicated packing box for transportation.



 Supplied Item List Name Specifications Qty. No. 1 **Operation Manual (this manual)** 1 2 1 USB dongle Note: This part may be delivered separately. 3 Service key For Asian models, this is the same as the Coindoor key. 2 4 Coindoor key U.S. and European model only 2 5 Coinbox key 2 6 bill validator box key U.S. model only 2 Operation manual of the 7 1 projector 8 Remote controller for projector 1 9 Batteries for remote controller Size AAA 2 10 1 Torx wrench For M5, T25 C) 11 Torx bolt M5 x 12 (Used in P. 68 to P. 78) 40 \bigcirc 12 Ø16 x Ø5.5 x t1.6 4 Flat washer (Used in P. 69) 13 Low head cap screw M5 x 16 (Used in P. 73) 4 14 M5 6 Countersunk washer nut (Used in P. 71) 6 15 Flange socket bolt M8 x 16 (Used in P. 64) 16

Test Mode

Troubleshooting

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No.	Name	Specifications	Qty.
16	Flange socket bolt	M6 x 12 (Used in P. 78)	2
17	LED Unit (L)		1
18	LED Unit (R)		1
19	Console box		1
20	Console panel		1
21	Rear cover		1
22	Side joint (L)		1
23	Side joint (R)		1
24	Side cover (L) SW		1
25	Side cover (R) SW		1
26	Lower side cover (L) SW	With cover joint assembled	1
27	Lower side cover (R) SW		1
28	POP bracket		1
29	POP bracket (L)		1
30	POP bracket (R)		1

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Package Contents

No.	Name	Specifications	Qty.
31	POP board		1
32	Power cord	U.S. and European model only	1
33	Clamp	For power cord	1
34	Clamp	For LAN cable NBLINE model only	1
35	Lock bar (B) B	U.S. model only	1
36	Lock bar (C)	U.S. and European model only	1

4. Overall Structure (Part Names)



5. Delivery and Installation Conditions

- Install the machine according to the instructions in this Operation Manual. Failure to follow these instructions may result in fire, electric shock, injury or malfunction.
- Fully insert the power cord plug into the outlet. Poor contact may generate heat and result in fire or burns.
- Be sure to install the ground wire. Failure to install the ground wire may result in electric shock in the event of electrical leakage. (See P-82 "8A-4 Connecting the Power Cord and Ground Wire".)
- Install the machine securely by using the level adjusters. Unstable machine installation may result in accident or injury. (See P-74 "8A-3-7 Level Adjuster Adjustment".)

5-1 Installation Conditions

Make sure that the ventilation holes on the back, sides or top of the machine are not obstructed by any objects, walls, etc. If the ventilation holes are blocked, the inside of the machine may become hot, which may result in fire or malfunction.

5-1-1 Locations Where the Machine Should Not be Installed



Avoid use at altitudes of 1,500 m or more above sea level, as this may adversely affect product life.

5-1-2 Play Zone to be Set Up during Installation



 Create a play zone around the machine so that players leaving the machine will not hit bystanders or passersby.

- NOTICE
- When installing the machine, create a play zone as shown in the figure below. Be sure to secure this play zone, as it is also needed for service work.





5-2 Required Dimensions for the Delivery Route (Such as Doors and Corridors)

The dimensions of the machine when it is shipped are as follows. Entryways and corridors must be larger than the dimensions noted below.

 Front assembly 	Width (W) 1,780 x Depth (D) 900 x Height (H) 1,940 [mm]
Rear assembly	Width (W) 1,780 x Depth (D) 940 x Height (H) 2,050 [mm]

Removing the top cover will help to reduce the size in the depth direction. The depth of the rear assembly is 910 mm when the top cover is removed. (See P-61 "8A-1 Separation of Main Components

(As Required by the Conditions during Delivery)".)

6. Moving and Transportation

WARNING

• Do not leave the machine on a slope. It may fall over or cause an accident.

6-1 Moving (Within the Same Floor)

NOTICE

- Be sure to turn off the power switch before starting work.
- Move the machine carefully to avoid subjecting it to impact.
- The projector unit is a precision electronic component. Remove the projector unit and pack the projector unit in the dedicated packing box for transportation whenever possible.
- When disassembling the machine into the front and rear assemblies for moving, attach the rear joint frame to the rear assembly. (See P-67 "8A-3-3 Removing the Rear Joint Frame".)
- Even when moving the machine only a short distance, be sure to raise the level adjusters to their highest level. (See P-74 "8A-3-7 Level Adjuster Adjustment".)
- Handle the LAN cable and power cord with care to avoid damage to the parts. Be especially careful with the LAN cable connector when inserting or removing it. (See P-82 "8A-4 Connecting the Power Cord and Ground Wire" and P-84 "8A-5 Connecting the LAN Cable (If Necessary)".)
- Be careful not to apply force to the oval dome, rear window, door and other plastic parts when moving the machine.

Test Mode

6-2 Transportation

6-2-1 Manual Transportation (Such as Carrying on Stairs)



NOTICE

• Move the machine carefully to avoid subjecting it to impact.

- After disassembling the machine into the front and rear assemblies, attach the rear joint frame to the rear assembly. (See P-67 "8A-3-3 Removing the Rear Joint Frame".)
- Secure the door using cord or tape so that it does not open when transporting the rear assembly.
- Be sure to pack the projector unit in the dedicated packing box for transportation.
- Be careful not to apply force to the oval dome, rear window, door and other plastic parts when moving the machine.

6-2-2 Loading to and Unloading from a Vehicle



When using a forklift to transport the machine, observe the position of the fork sticker. If the fork is inserted in a location other than that indicated by the fork sticker, the machine may tip and fall over, or be subjected to another type of accident.



- Move the machine carefully to avoid subjecting it to impact.
- Be careful not to apply force to the oval dome, rear window, door and other plastic parts when moving the machine.



Fork sticker

6-2-3 **Transportation Using a Vehicle** WARNING When transporting the machine on a vehicle, secure the machine firmly so that it does not move while being transported. Failure to secure the machine may result in an accident. NOTICE Move the machine carefully to avoid subjecting it to impact. When securing the machine with a rope, observe the following. . Be sure to secure the machine with ropes or belts in the positions shown in the figure below. • Place blankets or other shock absorbing material between the machine and the ropes or belts to protect the machine surfaces. · Be careful not to apply force to the oval dome, rear window, door and other plastic parts. • When transporting the machine in rainy weather, use a vehicle with a cargo cover, a container truck, or similar vehicle to protect the machine from direct exposure to rain. Front assembly Rope hook **Rear assembly** Styrofoam Rope or belt Molded parts Styrofoam

7. Operation

WARNING

- Should any abnormalities occur, turn off the power switch immediately to stop operations. Then, be sure to disconnect the power cord plug from the outlet. Operating the machine while the abnormality persists may result in fire or accident.
- Dust accumulating on the power cord plug may result in fire. Inspect the plug regularly and remove any dust.
- Fully insert the power cord plug into the outlet. Poor contact may generate heat and result in fire or burns.
- Before operating the machine, be sure to check that installation has been performed according to the instructions and specified procedures in this Operation Manual (see P-19 "5. Delivery and Installation Conditions"). Failure to install the machine correctly may result in fire, electric shock, injury or malfunction.
- The warning labels attached to the machine contain important information for ensuring safety. Be sure to observe the following. (For information about where to attach the warning labels, see P-4 "1-4 Machine Warning Labels".)
 - In order to ensure that the warning labels attached to the machine are always clearly visible, install the machine in an appropriate, sufficiently lit location and keep the labels clean at all times. Also, make sure that the labels are not hidden by other machines or objects.
 - Do not remove or alter the warning labels.
 - If a warning label becomes excessively dirty or damaged, replace it with a new one. To order warning labels, contact your distributor.
- In order to ensure safe use of the machine, be sure to perform the pre-operation inspection (P-26 "7-3 Pre-operation Inspection"), service (P-90 "8B-1 Inspection and Service") described in this Operation Manual.
- Set the cabinet volume within a range that allows the player to hear alarms and warning announcements within the operating facility.

Omitting these inspections or service may result in an accident.

7-1 People Who Should Not Play the Game

- In order to ensure the safety of players, be careful not to let people play under the following conditions. It
 may result in an accident.
 - People who are sensitive to light such as strobe lights
 - People whose feet cannot reach the floor when sitting on the seat
 - People under the influence of alcohol
 - People who are injured or ill
 - People who are pregnant
 - People with heart conditions
 - People with other ailments
 - People whose behavior is against what is described on the warning labels on this machine.
- The machine is designed for one player. To prevent accidents, be careful not to let two or more people attempt to enter the machine at the same time.

7-2 Consideration for Players

- If players start feeling ill due to game images or light stimulation, they must stop playing and take a break immediately.
- In rare cases, stimulation by lights or video images may cause the player to have a seizure or lose consciousness. If this happens, make sure that the player gets immediate medical assistance. In particular, if the player is under 6 years old, be sure to advise the parents to keep an eye on their child.

7-3 Pre-operation Inspection

Check the points below before starting machine operations. If there is an abnormality, resolve it by referring to P-93 "8B-2 Troubleshooting".



- Before operating the machine, check the following locations. This is necessary to prevent accident or injury.
- Do not operate this machine when any part is damaged, broken, or deteriorated, or when this machine is not correctly installed. Doing so may cause injury to the players and the people around them. If you find any abnormalities, replace the affected parts immediately. To order a fuse, contact your distributor.

7-3-1 Safety Inspection (Before Power On)

- (1) Are the warning labels attached? (See P-4 "1-4 Machine Warning Labels".)
- (2) Are all warning labels legible? (See P-4 "1-4 Machine Warning Labels".)
- (3) Have all the level adjusters been adjusted? (See P-74 "8A-3-7 Level Adjuster Adjustment".)
- (4) Is the specified play zone provided? (See P-20 "5-1-2 Play Zone to be Set Up during Installation".)
- (5) Are the power cord and the LAN cable laid out safely so that they will not cause players or other customers to trip over them?
- (6) Is the rubber cover of the control lever torn or removed?
- (7) Is the finger guard of the throttle lever cracked or removed?
- (8) Are the parts that the player touches damaged, such as the seat and the control lever?

7-3-2 Safety Inspection (After Power On)

Inspect the following points after turning on the power switch. If you discover an abnormality, turn off the power switch immediately to stop operations.

- Then, disconnect the power cord plug from the outlet and contact your distributor.
- (1) Is any part of the power cord or plug abnormally hot?
- (2) Does touching the machine give a tingling electric shock?
- (3) Is there a burning smell, abnormal noise or vibration?
- (4) Is there any other abnormality or malfunction?

7-3-3 Function Inspection (After Power On)

- (1) Check the images. (Are images projected from the projector?) (See P-44 "7-6-5 Screen Adjustment (MONITOR TEST)".)
- (2) Check the audio. (Is sound emitted from each speaker?) (See P-45 "7-6-6 Sound Adjustment (SOUND TEST)".)
- (3) Check the lamps. (Do the view change buttons light up?) (See P-40 "(c) OUTPUT TEST".)
- (4) Check each LED module (Does the LED module light up?) (See P-40 "(c) OUTPUT TEST".)

To inspect the following points, press the Service switch and actually play the game. (See P-32 "7-5-2 Adjustment Switches".)

- (1) Check the operation of the control lever. (Does the course of the vehicle change when you operate the control lever?)
- (2) Check the operation of the throttle lever. (Does the vehicle speed up or slow down when you move the throttle lever forward or backward?)
- (3) Check the operations of the main trigger and the special button. (Is a bullet fired when you press the button?)
- (4) Check the operation of the vibration motor. (Does the control lever vibrate when a bullet is fired?)
- (5) Check the operation of the fan.
- (6) Check the operations of the view change button. (Does the display change when you press the button?)

7-4 Playing the Game

7-4-1 Outline of the Game

This machine enables players to take part in sensory dogfight shooting games. Players ride well-known vehicles from the Star Wars movies such as X-wing Fighters and Speeder Bikes to shoot down enemy vehicles quickly in order to carry out their missions.

7-4-2 Operation Method

Operation Method When Selecting the Mission

(1) Control lever

- Tilt the lever forward, backward, right and left to select a mission.
- Press the main trigger or the special button to enter the mission.

Operation Method during the Mission

(1) Control lever

• Tilt the lever forward, backward, right and left to pilot your vehicle.

Tilt forward/backward: Dives/climbs

Tilt to the right/left: Turns to the right/left

- When you operate the main trigger or the special button, the corresponding weapons will be fired.
- (2) Throttle lever
 - Tilt the lever forward or backward to speed up or slow down the vehicle.

Tilt forward: The vehicle speeds up temporarily and closes the distance with the enemy vehicle.

Tilt backward: The vehicle slows down temporarily and the distance to the enemy vehicle widens. (3) View change button

• Press the button to switch between showing/hiding the cockpit.



7-4-3 Game Flow

How to Start the Game

Insert a coin to start the game. The mission selection screen will be displayed.

Selecting the Mission

Select a mission from among five missions, each with a different level of difficulty.

Missions

(1) Basic Dogfight

Operate the control lever and throttle lever to align the lock-on circle onto enemy vehicles that appear before you, attack the enemy vehicle by pulling the main trigger, and attempt to deliver a damaging blow to shoot it down.

You can inflict great damage on the enemy vehicle if you align the center of the lock-on circle with the center of the enemy vehicle.

If you keep aligning the center of the lock-on circle with the enemy vehicle, it will be locked on. Press the special button while locking on to carry out a crushing attack and quickly shoot down the enemy vehicle.

(2) Counterattack by Enemy Vehicles

If you fail to shoot down the enemy vehicle quickly, it will counterattack. If your vehicle is attacked by the enemy vehicle, the endurance of your vehicle will fall. If it reaches 0, the mission will end in failure.

(3) Final Dogfight

Toward the end of each mission. the final dogfight takes place. You must accomplish your goal within the time limit. If you fail to accomplish your goal, the mission will end in failure.

Results

Regardless of success or failure, when the mission finishes, you can display the result screen to check your score and rank.

When you successfully complete your mission for the first time, you can enter your name.

Continue

Display the continue selection screen after displaying the results. If you do not insert a coin and select continue at this time, the game will be over.

If you continue, you will be able to select from among five missions. You can select a mission that you have successfully completed.

Ranking

The ranking list is displayed when the game ends.

The most recent players compete in this ranking. Old data is automatically deleted in chronological order.

7-5 Power Switch and Adjustment Switch

7-5-1 Turning the Power Switch On

This machine has the following two types of power switches.

(a) Main power switch (on the cord box assembly)

This switch is used to turn ON/OFF the power switch of the machine.

(b) System power switch (inside the service door)

This switch is used to forcibly reboot the game PC board should any abnormalities occur in the system. To reboot the game PC board, set the system power switch to OFF, wait for 30 seconds or more, and then set the switch to ON again.

To start the machine, turn both the main power switch and the system power switch ON.



1

To reboot the game PC board, use the system power switch. When the main power switch is used, it will take some time to restart the projector, and the display may remain blank for approximately 10 minutes.





- 2 Open the service door using the supplied service key.
- 3



7-5-2 Adjustment Switches

The adjustment switches are located inside the service door.



(a) Service switch (red)

Press this button to increase the credit count without operating the coin counter. When credits are added using the Service switch, the side LED lamp on the rear cover lights up green.

(b) Test switch

Set this switch to ON to enter Test mode. Test mode is used to set the game cost and perform the I/O test.

(c) Select switch

Flip this switch up or down to select an item or setting to be confirmed or changed.

(d) Enter switch (green)

After selecting an item or setting with the Select switch, press this switch to enter or execute the selection.

(e) System power switch

Use this switch to reboot the game PC board when an abnormality occurs in the game screen. To reboot the game PC board, set the system power switch to OFF, wait for 30 seconds or more, and then set the system power switch to ON again.

(f) Door switch

To use the Service switch, open the service door and turn ON the door switch.



• To reboot the game PC board, use the system power switch.

When the main power switch is turning off, wait for 10 minutes or more before turning it on to protect the projector.

Test Mode 7-6 7-6-1 **Description of the Main Menu Screen (MENU)** 1 Use the service key to unlock and open the service door, and set the Test switch to ON. The MENU screen appears. 2 Flip the Select switch up or down to select the item. The selected item blinks. 3 Press the Enter switch to enter the selected item. When the selection is entered, the display changes to the selected test menu. 4 When all the adjustments are finished, set the Test switch to OFF. The display returns to the game screen. MENU (a) COIN OPTIONS -L GAME OPTIONS 🔶 -(b) I/O TEST -(c) T MONITOR TEST --(d) T SOUND TEST -(e) T BOOKKEEPING --(f) I OTHERS —(g) NETWORK OPTIONS —(h) -(i) ROM DSW100-2-NA-MPR0-A01 (REV. 1.00.01) -LAST GAME STATUS LEFT CREDIT 1 --(j) **I** (**k**) USE CREDIT 3 -SELECT SW : CHOOSE ENTER SW : ENTER

MENU screen

	Item	Description	Reference section
(a)	COIN OPTIONS	Sets the game cost.	P-34
(b)	GAME OPTIONS	Sets the game contents.	P-35
(C)	I/0 TEST	Performs I/O test of switches and devices.	P-36
(d)	MONITOR TEST	Adjusts the monitor.	P-44
(e)	SOUND TEST	Adjusts the volume.	P-45
(f)	BOOKKEEPING	Reviews the operating time and game data.	P-46
(g)	OTHERS	Sets the time and the language.	P-47
(h)	NETWORK OPTIONS	Displays information on the network. Available only on NBLINE-	P 50
		compatible machines.	F-30
(i)	ROM	Displays software version or revision.	-
(j)	LEFT CREDIT	Displays the number of credits remaining from the last time the game	_
		was played.	-
(k)	USE CREDIT	Displays the number of credits used the last time the game was	
		played.	-

Game Cost Settings (COIN OPTIONS) 7-6-2 This screen is used to change the settings of the game cost and free play. 1 In the MENU screen, select COIN OPTIONS and press the Enter switch. The COIN OPTIONS screen appears. 2 Flip the Select switch up or down to select the item. The selected item blinks. Press the Enter switch to enter the selected item, and use the Select switch to change the 3 setting. After changing the setting, press the Enter switch to return to the item selection. Select EXIT and press the Enter switch to return to the MENU screen. 4 COIN OPTIONS [DEFAULT IN GREEN] 3 CREDIT(S) -GAME COST L CONTINUE COST 2 CREDIT(S) -FREE PLAY OFF 🖛 EXIT

-(a)

-(c)

_(b)

	Item	Description	Default
(a)	GAME COST	Sets the number of coins required for game play.	0
		The setting range is 1 to 19.	3
(b)	CONTINUE COST	Sets the number of credits required to continue.	
		The setting range is 1 to 19.	2
		Setting value cannot be larger than the GAME COST.	
(C)	FREE PLAY	Sets whether to allow free play.	
		OFF: regular coin operation	
		ON: free play	055
		· If FREE PLAY is turned ON, GAME COST and CONTINUE COST	UFF
		cannot be selected.	
		· Depending on the specification, FREE PLAY cannot be turned ON.	

SELECT SW : CHOOSE

COIN OPTIONS screen

ENTER SW : ENTER

34


GAME OPTIONS screen

	Item	Description	Default
(a)	DIFFICULTY	Sets difficulty of the game.	
		NO DEAD: a mode in which your vehicle will not be shot down	
		even if it is attacked.	
		EASY: a setting that makes it more difficult for your vehicle to be	
		shot down when compared to the regular setting.	
		NORMAL: regular setting	NORMAL
		HARD: a setting that makes it easier for your vehicle to be shot	
		down when compared to the regular setting.	
		VERY HARD: a setting that makes it extremely easy for your	
		vehicle to be shot down when compared to the	
		regular setting.	
(b)	HI-SCORE INITIALIZE	Initializes ranking.	
		Select this item to display HI-SCORE INITIALIZE? with YES and NO	
		displayed at right. Select NO to return to the state before making	-
		the above-mentioned selection. Select YES to reset and to display	
		COMPLETE! after finishing initialization.	

Test Mode



I/0	TEST scre	en

SELECT SW : CHOOSE

FIRMWARE VERSION: NBGI.;NA-JV;Ver2.03;JPN -

ENTER SW : ENTER

(g)

	ltom	Description	Reference
	nem	Description	section
(a)	I/F CALIBRATION	Calibrate the control lever assembly and the throttle	P-37
		lever assembly.	
(b)	SWITCH TEST	Tests the operation of each switch.	P-38
(C)	OUTPUT TEST	Checks the fan, control lever vibration, and the	P-40
		center window lamp operation.	
(d)	PROJECTOR TEST	Checks the usage condition of the projector.	P-42
(e)	CAMERA TEST	Checks the operation of USB camera.	P-43
(f)	I/O PCB	Displays the connection status of the NA-JV (S) PC	-
		board.	
		CONNECT OK (green display):	
		Communication is normal.	
		CONNECT NG (red display):	
		Communication is not normal. Check the	
		connection of the NA-JV (S) PC board.	
(g)	FIRMWARE VERSION	Displays the version of the NA-JV (S) PC board.	-



I/F CALIBRATION screen

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(b) SWITCH TEST

This screen is used to test each switch and control.



In the I/O TEST screen, select SWITCH TEST and press the Enter switch. The SWITCH TEST screen appears.



Entering each switch changes the display.

3 H

Hold the Select switch flipped up and press the Enter switch to return to the I/O TEST screen.

SWITCH TEST [ON: RED] COIN INPUT1	0 - (a)
COIN INPUT2 SERVICE SW TEST SW UP SELECT SW DOWN SELECT SW ENTER SW SERVICE PANEL VIEW CHANGE BUTTON WEAPON TRIGGER	0 (b) 0FF (c) 0N (d) 0FF (e) 0FF (f) 0FF (g) 0FF (h) 0FF (j)
WEAPON BUTTON THROTTLE LEVER Y CONTROL LEVER X CONTROL LEVER Y UP SELECT SW + ENTER	OFF (K) 1000 DOWN OK! (I) 1000 RIGHT OK! (I) 0500 (m) SW: EXIT

SWITCH TEST screen

	Item	Description
(2)		Adds 1 to the count each time a coin is input for coin 1. When the count exceeds
(a)		999 it returns to 0.
		Adds 1 to the count each time a coin is input for coin 2. When the count exceeds
(b)	COIN INPUT2	999 it returns to 0.
		* COIN INPUT2 checks the operation of BILL VALIDATOR.
(C)	SERVICE	Displays ON when you press the Service switch.
	тест	Displays ON while the machine is in Test mode. Turn it off to return to the game
(u)	ILJI	screen.
(e)	UP SELECT	Displays ON when you flip the Select switch up.
(f)	DOWN SELECT	Displays ON when you flip the Select switch down.
(g)	ENTER	Displays ON when you press the Enter switch.
(h)	SERVICE PANEL	Displays ON when the service door is open.
(i)	VIEW CHANGE BUTTON	Displays ON when you press the view change button.
(j)	WEAPON TRIGGER	Displays ON when you press the main trigger of the control lever assembly.
(k)	WEAPON BUTTON	Displays ON when you press the special button of the control lever assembly.
		Increases or decreases the numerical value when you tilt the throttle lever
(I)		forward or backward.
		If you move the lever all the way to the far side and UP OK! is displayed, and all
		the way to the near side and DOWN OK! is displayed, it is operating normally.
		If OK is not displayed even when you move the lever all the way, calibrate the
		lever. (See P-37 "(a) I/F CALIBRATION".)

	Item	Description
		Tilt the control lever from side to side to increase or decrease the numerical
		value on the X side, and forward or backward to increase or decrease the
		numerical value on the Y side.
		If you move the lever all the way to the left side and LEFT OK! is displayed, all the
(m)	CONTROL LEVER	way to the right side and RIGHT OK! is displayed, all the way to the near side and
		UP OK! is displayed, and all the way to the far side and DOWN OK! is displayed, it
		is operating normally.
		If OK is not displayed even when you move the lever all the way, calibrate the
		lever. (See P-37 "(a) I/F CALIBRATION".)

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(c) OUTPUT TEST

This screen is used to check the fan, control lever vibration, and the LED module. This test is used to check operation. It has no effect on game play or Attract mode operation.



In the I/O TEST screen, select OUTPUT TEST and press the Enter switch. The OUTPUT TEST screen appears.

Flip the Select switch up or down to select the item to be checked.



4

2

Press the Enter switch to enter the selected item.

Select EXIT and press the Enter switch to return to the I/O TEST screen.



OUTPUT TEST screen

	ltem	Description	Default	
(a)	ALL	When you set this to ON, items (b), (c), (e), (f), (i), (l), (m), and (n) will be ON.	0FF	
(b)	FRONT FAN	Operates the fan when this is set to ON.	OFF	
(C)	VIBRATION	Vibrates the control lever with the intensity that has been set in "(d) POWER (6-15)"	ntensity that has been set in "(d) POWER (6-15)" OFF	
(d)	POWER(6-15)	Sets the vibration intensity of the control lever. The setting range is 6 to 15.	9	
(e)	LED VIEW CHANGE	Lights up the view change button lamp when this is set to ON.	OFF	
(f)	LED REAR COVER	Lights up the LED module on the rear cover side in the color that has been set in	OFF	
		"(g) COLOR" when this is set to ON.	011	
(g)	COLOR	Sets the color of the LED module lamp on the rear cover side.		
		WHITE: white lighting		
		RED: red lighting	WUITE	
		BLUE: blue lighting	WHILE	
		GREEN: green lighting		
		CUSTOM: lights up a color set in "(h) R, G, B"		
(h)	R, G, B	Sets the color of the LED module lamp on the rear cover side with RGB values.	15	
		The setting range is 1 to 15.	15	

	ltem	Description	Default	
(i)	LED REAR WINDOW	Lights up the LED module in the center window with the color that has been set		
		in "(j) COLOR" when this is set to ON.	UFF	
(j)	COLOR	Sets the color of the LED module lamp in the center window.		
		WHITE: white lighting		
		RED: red lighting		
		BLUE: blue lighting	WHILE	
		GREEN: green lighting		
		CUSTOM: lights up a color set in "(k) R, G, B"		
(k)	R, G, B	Sets the color of the LED module lamp in the center window with RGB values. The	15	
		setting range is 1 to 15.	15	
(I)	LED REAR PANEL A	Lights up the LED module on the left-hand side of the console panel when this is	OFF	
		set to ON.		
(m)	LED REAR PANEL B	Lights up the LED module in the center of the console panel when this is set to	OFF	
		ON.		
(n)	LED REAR PANEL C	Lights up the LED module on the right-hand side of the console panel when this	OFF	
		is set to ON.		

(d) **PROJECTOR TEST**

This screen is used to check the status of the projector and the operation time of the lamp, and to do a factory reset.



In the I/O TEST screen, select PROJECTOR TEST and press the Enter switch. The PROJECTOR TEST screen appears.

Flip the Select switch up or down to select the item to be checked. The selected item blinks.



4

2

Press the Enter switch to enter the selected item.

Select EXIT and press the Enter switch to return to the I/O TEST screen.

PROJECTOR TEST	
LAMP TIME (H)1234REMAINING63%TEMPERATURE25.4 °C	(a) (b) (c)
LAMP REPLACEMENT LOG - LAMP TIME RESET - FACTORY DEFAULT SET -	(d) (e) (f)
EXIT	
2066 hour(s) until the projector lamp is due for replacement	t.
ENTER SW : ENTER	

Item Description LAMP TIME(H) Indicates the operation time of the projector lamp. (a) REMAINING Indicates the remaining operation time of the projector lamp. (b) TEMPERATURE Indicates the intake temperature of the projector. Clean the filter and (C) review the installation environment so that the temperature is 35 degrees or below. LAMP REPLACEMENT LOG Displays the replacement log of the projector lamp. (d) LAMP TIME RESET Resets the operation time of the projector lamp. (e) Select this item to display LAMP TIME RESET? with YES and NO displayed on its right-hand side. Select NO to return to the state before making the above-mentioned selection. Select YES to reset and to display COMPLETE! after finishing initialization. FACTORY DEFAULT SET (f) Resets to the factory default. Select this item to display FACTORY DEFAULT SET? with YES and NO displayed on its right-hand side. Select NO to return to the state before making the above-mentioned selection. Select YES to reset and to display COMPLETE! after finishing initialization.

PROJECTOR TEST screen

(e) CAMERA TEST

This screen is used to check the operation of the USB camera.



3

4

In the I/O TEST screen, select CAMERA TEST and press the Enter switch. The CAMERA TEST screen appears.





- Select TAKE and press the Enter switch to check the operation of the USB camera.
- Select EXIT and press the Enter switch to return to the I/O TEST screen.



CAMERA TEST screen

	Item	Description
(a)	TAKE	Takes a still image with the camera.
		Press the Enter switch again to return to video display.

7-6-5	Screen Adjustment (MONITOR TEST)
	Displays the screen for adjusting the projector.
	1 In the MENU screen, select MONITOR TEST and press the Enter switch. The MONITOR TEST screen appears.
	2 Flip the Select switch up or down to select the item. The selected item blinks.
	 Press the Enter switch to enter the test pattern to display. While the test pattern is displayed, press the Enter switch again to return to the MONITOR TEST screen.
	4 Select EXIT and press the Enter switch to return to the MENU screen.
	MONITOR TEST
	GRADATION PATTERN (a) VIEW ANGLE ADJUST PATTERN (b) FOCUS ADJUST PATTERN (c) FULL WHITE (d)
	FACTORY (LENS) PATTERN FACTORY (ASSEMBLY) PATTERN FACTORY (VALIDATION) PATTERN
	EXIT
	SELECT SW : CHOOSE ENTER SW : ENTER
	MONITOR TEST screen

	Item	Description
(a)	GRADATION PATTERN	Displays a gradation pattern.
(b)	VIEW ANGLE ADJUST PATTERN	Displays a pattern for checking viewing angle.
(C)	FOCUS ADJUST PATTERN	Displays a focus adjustment pattern.
(d)	FULL WHITE	Turns the entire screen white.
(e)	Factory adjustment pattern display	Displays a factory adjustment pattern.

7-6-6 Sound Adjustment (SOUND TEST)



Set the cabinet volume within a range that allows the player to hear alarms and warning announcements within the operating facility.

Displays the screen for sound adjustment.

- 1 In the MENU screen, select SOUND TEST and press the Enter switch. The SOUND TEST screen appears.
- 2 Flip the Select switch up or down to select the item. The selected item blinks.



5

- Press the Enter switch to enter the selected item.
- 4 After entering the selection, flip the Select switch up or down to change the item setting. After changing the setting, press the Enter switch to return to the item selection.
 - Press the Service switch to play the test sound from the speakers. The volume of the test sound is the setting value of the selected item.
- 6 Select EXIT and press the Enter switch to return to the MENU screen.

SO [DEFAL	UNDT TEST JLT IN GREEN]	
VOLUME	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(a)
SEPARATE CHECK (GAME VOLUME)	FRONT (L/R/C) REAR (L/R) BUTTOM	——(b)
MESSAGE		
EXIT		
SELECT SW : CHOOSE	SERVICE SW : SPEAKER CHECK ENTER SW : ENTER	

SOUND TEST screen

Item		Description		
(a)	VOLUME	Sets the volume. The setting range is 0 to 15. Plays the test sound from all		
		speakers, one at a time in sequence.	10	
		GAME: volume setting during game play	10	
		ATTRACT: volume setting while in Attract mode		
(b)	SEPARATE CHECK	ATE CHECK Test sound is played in the following groups in turns at the volume for the game set in "(a		
	(GAMEVOLUME)	VOLUME".		
		FRONT (L/R/C): 3 speakers under the oval dome		
		REAR (L/R/C): 2 speakers at the back of the seat		
		BOTTOM: speaker below the seat surface		

7-6-7 Displaying/Initializing Game Data (BOOKKEEPING)

Displays or initializes various data related to the game.



2

Flip the Select switch up or down to select the item. The selected item blinks.



4

Press the Enter switch to enter the selected item.

- Every time you select NEXT and press the Enter switch, the display switches to the next page. Select NEXT in the last page to return to the first page.
- Select ERROR LOG and press the Enter switch to change to the screen where you can check the error log.
- Select BOOKKEEPING INITIALIZE and press the Enter switch to display BOOKKEEPING INITIALIZE? with NO and YES displayed on the right-hand side. Select NO to return to the state before making the above-mentioned selection. Select YES to display COMPLETE! after finishing initialization.

Select EXIT and press the Enter switch to return to the MENU screen.

7-6-8 Other Options (OTHERS)

2

3

Displays, sets or initializes the current time and the software version.

- 1 In the MENU screen, select OTHERS and press the Enter switch. The OTHERS screen appears.
 - Flip the Select switch up or down to select the item. The selected item blinks.
 - Press the Enter switch to enter the selected item.





OTHERS screen

	Item	Description		
(a)	ROM	Displays software version or revision, date and time of creation.		
(b)	CLOCK	Displays the current time of the built-in clock and the date.		
(C)	S/N	Displays the serial number of the USB dongle.		
(d)	LANGUAGE	Sets the language for the game.		
		ENG: English (default)		
		SPA: Spanish		
		RUS: Russian		
		IND: Indonesian		
		THA: Thai		
(e)	MAINTENANCE TIME SETTING	Sets the maintenance time. (See P-56 "7-8 About Maintenance Time".)		
(f)	CLOCK SETTING	Sets the time of the built-in clock.		
		CLOCK SETTING is not available in the NBLINE model.		
(g)	BACKUP MEMORY INITIALIZE	Resets each setting to the factory default.		
		Select this item to display BACKUP MEMORY INITIALIZE? with YES and NO		
		displayed on its right-hand side. Select NO to return to the state before		
		items are selected. Select YES to display COMPLETE! after initialization is		
		completed and to return to the screen before items are selected.		

(a) Setting Maintenance Time (MAINTENANCE TIME SETTING)

Sets the maintenance time. (See P-56 "7-8 About Maintenance Time".) If you change the setting, the machine will automatically restart after you set the Test switch to OFF.



1

2

4

In the OTHERS screen, select MAINTENANCE TIME SETTING and press the Enter switch. The MAINTENANCE TIME SETTING screen appears.

Flip the Select switch up or down to select the item. The selected item blinks.



Select EXIT and press the Enter switch to return to the OTHERS screen.



MAINTENANCE TIME SETTING screen

	Item	Description	Default
(a)	CLOCK	Displays the time of the built-in clock and date.	-
(b)	MAINTENANCE TIME	Displays the maintenance time currently set.	07:00:00
(C)	HOUR	Sets the hour of maintenance time.	07
(d)	MINUTE	Sets the minute of maintenance time.	00
(e)	SET	Enters the time that has been set.	-

(b) Setting the Clock (CLOCK SETTING)

Sets the time of the built-in clock.

* CLOCK SETTING is not available in the NBLINE model.



2 Flip the Select switch up or down to select the item. The selected item blinks.



4 Select EXIT and press the Enter switch to return to the OTHERS screen.



CLOCK SETTING screen

	Item	Description
(a)	CLOCK	Displays the current time of the built-in clock and the date.
(b)	YEAR	Sets the year after the change.
(C)	MONTH	Sets the month after the change.
(d)	DAY	Sets the day after the change.
(e)	HOUR	Sets the hour after the change.
(f)	MINUTE	Sets the minute after the change.
(g)	SET	Enters the time of the built-in clock and the date.

7-6-9	Setting Network (NETWORK OPTIONS)
	This screen is used to check the network status and test the connection. * NETWORK OPTIONS becomes available only in the NBLINE model.
	1 In the MENU screen, select NETWORK OPTIONS and press the Enter switch. The NETWORK OPTIONS screen appears.
	2 Flip the Select switch up or down to select the item. The selected item blinks.
	3 Press the Enter switch to enter the selected item. When the selection is entered, the display changes to the test screen of each item.
	4 Select EXIT and press the Enter switch to return to the MENU screen.
	NETWORK OPTIONS
	NETWORK STATUS (a) LOCAL NETWORK CHECK (b) UPDATE CHECK (c) NBLINE POINTS (c)
	EXIT
	SELECT SW : CHOOSE ENTER SW : ENTER

NETWORK OPTIONS screen

	Itom	Description	Reference
itelli		Description	section
(a)	NETWORK STATUS	Used to check the network status and IP address, and to	D 51
		reacquire the network status.	F-01
(b)	LOCAL NETWORK CHECK	Tests the local network connection.	P-53
(C)	UPDATE CHECK	Checks the update status of the software.	P-54
(d)	NBLINE POINTS	Checks the NBLINE points.	P-55

(a) NETWORK STATUS

4

Used to check the network status and IP address, and to reacquire the network status.











NETWORK STATUS screen

	Item	Description
(a)	NETWORK STATUS	Displays the following items.
		PCB ID: serial ID for validating NBLINE
		LICENSE: result of NBLINE validation
		UPDATE SERVER: connection status with the update server
		GAME SERVER: connection status with the game server
		IP ADDRESS: IP address of this cabinet
		SUBNETMASK: subnet mask setting value
		GATEWAY: IP address of gateway
		NBLINE ROUTER: IP address of NBLINE router
		PRIMARY DNS: IP address of primary DNS
		SECONDARY DNS: IP address of secondary DNS
(b)	NBLINE VENUE	Displays the business name obtained during NBLINE validation.

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	Item	Description
(C)	Offline operation warning	The following messages are displayed during offline operation.
	messages	\cdot During offline operation (example: remaining operation time is 12
		hours):
		The network is not available now.
		If the offline condition lasts for 12 hours,
		you will be unable to start the game.
		· Offline operation is not possible
		(when the remaining offline operation time has reached zero):
		There is an error in the network so the game
		can't start.
		Please check the network according to the
		manual.
(d)	RETRY NETWORK CONNECTION	Carries out the following processes.
		\cdot Reacquires DNS and DHCP addresses and the time
		· Validates the NBLINE again
		\cdot Checks the game server.
		\cdot Updates the display of network status according to the result of
		reacquisition

(b) LOCAL NETWORK CHECK

Tests the local network connection.



2

3

On the NETWORK OPTIONS screen, select LOCAL NETWORK CHECK and press the Enter switch. The LOCAL NETWORK CHECK screen appears.





LOCAL NETWORK CHECK
CHECK START - (a)
CABLE OK (b) NBLINE ROUTER OK (c) CONTENTS ROUTER (d) HOPS 1 (e)
EXIT
SELECT SW : CHOOSE ENTER SW : ENTER

LOCAL NETWORK CHECK screen

	Item	Description
(a)	CHECK START	Obtains information on the local network connection.
(b)	CABLE	Displays the connection status between the game PC board and the
		LAN cable.
(C)	NBLINE ROUTER	Displays the connection status between the game PC board and the
		NBLINE router.
(d)	CONTENTS ROUTER	Not used on this machine.
(e)	HOPS	Indicates the number of routers up to the NBLINE router.



• If the LAN cable is correctly connected, HOPS should be 1.

 If HOPS is 2 or higher, another router may be connected between the NBLINE router and this machine, which may cause a communication failure. Please check. To Purchase This Item : Visit Our Website : www.bmigaming.com | Global Sales : + 561.391.7200 | USA / CA : 1.800.746.2255 7. Operation

(c) UPDATE CHECK

Displays the update status of the game.



2

In the NETWORK OPTIONS screen, select UPDATE CHECK and press the Enter switch. The UPDATE CHECK screen appears.

Press the Enter switch to return to the NETWORK OPTIONS screen.

UPDATE CHECK			
LICENSE UPDATE SERVER CURRENT GAME UPDATE PERMIS DOWNLOADING G DOWNLOAD PROG	0 L REV. 1 SION REV. 1 AME REV. 1 RESS 1	DK - INK OK - I 1. 00 - I 1. 01 - I 1. 01 - I 1. 01 - I 1. 00% - I	(a) (b) (c) (d) (e) (f)
UPDATE STATUS	U Please turn and turn it	JPDATE AVAILABLE OFF the power switch, ON again.	(g)
ROM Clock S/N	DSW100-2-NA- 04/0CT/2013 271611-10000	-MPRO-A01 (Rev. 1.00.01) - FRI 11:24:33 - I	(h) (i) (j)
	ENTER SW : EI	NTER	

UPDATE CHECK screen

Item		Description	
(a)	LICENSE	Displays the validation status of the NBLINE.	
(b)	UPDATE SERVER	Displays the connection status with the update server.	
(C)	CURRENT GAME Rev.	Displays the revision of the current software.	
(d)	UPDATE PERMISSION Rev.	Displays the revision of the software that can be updated.	
(e)	DOWNLOADING GAME Rev.	Displays the revision of the software being downloaded.	
(f)	DOWNLOAD PROGRESS	Displays the progress of the download.	
(g)	g) UPDATE STATUS Displays the update status of the software.		
		UPDATE AVAILABLE: automatically updated the next time the power is	
		turned on.	
		UPDATE NOT AVAILABLE: software is being downloaded. It cannot be	
		updated.	
		UPDATE NOT REQUIRED: the latest version of software is installed. No	
		software to update.	
(h)	ROM	Displays software version or revision.	
(i)	CLOCK	Displays the current time of the built-in clock and the date.	
(j)	S/N	Displays the serial number of the USB dongle.	



It will take some time to update a game. In addition, after updating, some settings, including the difficulty level of the game, may return to factory defaults. Contact your distributor.

• Do not turn off the power while updating. Doing so may cause trouble to occur.

(d) NBLINE POINTS

This screen is used to check the NBLINE points.



In the NETWORK OPTIONS screen, select NBLINE POINTS and press the Enter switch. The NBLINE POINTS screen appears.



3

Use the Select switch to select CHECK SERVER POINT and press the Enter switch to update the point count with the NBLINE points charged.



NBLINE POINTS	
S/N 271611-100001 -	(a)
NBLINE SERVER POINT REMAIN 123	——(b) ——(c)
CHECK SERVER POINTS \prec	—— (d)
EXIT	
SELECT SW: CHOOSE ENTER SW: ENTER	

NBLINE POINTS screen

Item		Description	
(a)	S/N	Displays the serial number of the USB dongle.	
(b)	NBLINE SERVER	Displays the connection status of the NBLINE.	
		LINK OK (in green): connection is normal.	
		NG! (in red): connection failed.	
(C)	POINT REMAIN	Displays the remaining NBLINE points.	
(d)	CHECK SERVER POINTS	Execute CHECK SERVER POINTS to test the connection with the NBLINE	
		server and reacquire the remaining NBLINE points.	

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7-7 About the Network

If the machine is NBLINE specified, it needs to be connected to the network (NBLINE). (*1)

When communication trouble or other trouble occurs in the network connection, the machine operates in offline mode. If the machine is operating in offline mode, the "offline icon" appears in the Attract screens. (*2)



If more than 240 hours has elapsed after the machine went into offline mode, new games cannot be started. (When 240 hours is reached while playing a game, the game can continue until it ends.) (*3)

To enable the game to be played again, resolve the network trouble and connect to NBLINE. (*4)

- *1 The network connection status can be checked in NETWORK STATUS in Test mode. (See P-51 "(a) NETWORK STATUS".)
- *2 For some network errors, error messages may not be displayed in the Game screen or the Attract screen. Check the error message displayed in the upper right of the Main menu screen (See P-33 "7-6-1 Description of the Main Menu Screen (MENU)") in Test mode.
- *3 The remaining operation time in offline mode can be checked in "Offline operation warning messages" in Test mode. (See P-51 "(a) NETWORK STATUS".)
- *4 Refer to P-99 "(3) Network Errors" for network troubleshooting.

7-8 About Maintenance Time

This machine is equipped with a function that clears the system by rebooting regularly ("Maintenance time") to reduce the load on the game PC board caused by prolonged continuous operation.

- * Before shipping, the maintenance time is set at 7:00 AM. However, this can be changed by following the description in P-48 "(a) Setting Maintenance Time (MAINTENANCE TIME SETTING)".
- * Even when the set time is reached, the machine will not reboot while a game is being played. It will reboot when the game is finished and the Attract screen reappears.

7-9 Cleaning



 Do not use thinner, benzene, gasoline or other organic solvents. Doing so may degrade the materials.

(1) Cleaning the Screen Surface

Wipe away any dirt or dust on the screen surface using a soft cloth moistened with a small amount of water, then wipe dry using a dry soft cloth.



(2) Cleaning the Door and Rear Window

Wipe away any dirt or dust using a dry soft cloth. If the door and rear window become extremely dirty, wipe off the dirt using a cloth moistened with a small amount of water, then wipe dry using a dry soft cloth.







After cleaning, install the filters by reversing the procedure.

(5) Cleaning the Projector Lens



2

Open the projector cover of the projector assembly, and remove the front lid. (See P-75 "8A-3-8 Installing the Projector Unit".)

Remove any dirt or dust from the projector lens using a dedicated lens cleaning kit such as a commercially available eyeglass cleaning cloth or eyeglass cleaner.



NOTICE

• Do not use neutral detergent or other such cleaning fluids, but be sure to use a dedicated lens cleaner to clean the lens surface (commercially available eyeglass cleaning cloth, eyeglass cleaner, etc.)

7-10 Projector Lamp (Lamp Unit) Life

 Use a lamp unit specified by BANDAI NAMCO Games Inc. Use of a non-specified lamp unit may damage the projector unit.

NOTICE

When the machine turns into the "Operation disabled" state shown in the table below, the projector is powered off even if a player is currently playing a game. When the "Replacement time" has come, replace the lamp unit promptly.

- The lamp unit is a consumable part and may not light up any longer, or the brightness may drop before the lamp reaches the end of its life depending on the usage conditions (environment of installed location, repeatedly turning on/off of the power). The lamp lifetime noted below is approximate, and is not a guaranteed value.
- To request repairs or to order parts, contact your distributor.
- The current operation time of the lamp unit can be checked in P-42 "(d) PROJECTOR TEST".

Projector model number: NP-PE401H (V1)

Lamp life: 3,300 hours

The projector is powered off when the machine is used for another 100 hours after the lamp lifetime is reached. The projector cannot be powered on before the lamp unit is replaced. Replace the lamp unit by referring to P-169 "(2) Replacing the Projector Lamp (Lamp Unit)".

If the lamp lifetime has already been surpassed when the machine is started, the status is notified as follows.

Status	Lamp time	Behavior of the machine	Voice announcement
Replacement time	Approximately 3,300 to 3,400 hours	23-1 PROJECTOR LAMP WARNING is displayed in the screen.	WARNING voice, "It is time to replace the lamp soon", keeps sounding.
Operation disabled	Approximately 3,400 hours or more	The screen is blank and the LED modules of the top cover and the rear cover are blinking red and yellow.	WARNING voice "Please call the shop staff. Lamp usage time exceeded of the projector. Please replace the lamp, and reset the usage time" is played.

Behavior when the power switch is turned on

* Even in the status of "Replacement time", games can be played by entering Test mode and then exiting Test mode.

1

8. Technician's Manual - Must be performed by a technician -

8A. Installation and Assembly

8A-1 Separation of Main Components(As Required by the Conditions during Delivery)

8A-1-1 Removing the Top Cover

Removing the top cover will help to reduce the size in the depth direction. With the top cover: Width (W) 1,780 x Depth (D) 940 x Height (H) 2,050 [mm]

Without the top cover: Width (W) 1,780 x Depth (D) 910 x Height (H) 2,050 [mm]

If the delivery route is secured, you do not need to remove the top cover. Go to P-62 "8A-2 Assembly Preparation".



Removing the top cover involves standing at an elevated height. Prepare an appropriate stepladder or footstool and be careful when working. Working in an unnatural body posture may result in injury or machine damage.

Remove the five Torx bolts (M5 x 12) and remove the top cover.





1

To install, perform the procedure in reverse.

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8A-2 Assembly Preparation

8A-2-1 Number of Workers and Work Time

The following numbers of workers and work times are required for assembly work.

Number of workers

Delivery work: See P-22 "6-2 Transportation".)

Assembly work: Two or more technicians

Work time

Assembly work: Approximately one hour

8A-2-2 Workflow

Carry out the assembly work in the following order.

- [1] Attach the POP bracket to the rear assembly.
- [2] Connect the front and rear assemblies.
- [3] Install the projector unit.
- [4] Adjust the level adjuster.
- [5] Install the POP display.
- [6] Connect and adjust the power supply cable and other cables.

8A-2-3 Space Required during Installation

An open space of 3 m x 3 m or larger with a ceiling height of 2.5 m or higher is required for assembly and installation.

8A-2-4 Required Tools and Parts

The following tools are required for assembly and installation.

- Phillips-head screw driver (No. 2)
- Torx wrench (for M5, T25) * supplied
- Allen key (width across flats: 6 mm)
- Wrench (width across flats: 24 mm)
- A stepladder or a footstool
- Light (when needed)

U.S. and European models are not equipped with coin selectors when they are shipped. See P-143 "(1) Replacing the Coin Selector (U.S. Model)" or P-146 "(4) Replacing the CASHFLOW (European Model)" to install a coin selector.

If connection to the NBLINE is necessary, refer to P-86 "8A-5-2 Connecting the LAN Cable to the Machine" and connect the LAN cable.

– Must be performed by a technician -



- Must be performed by a technician -

8A-3-2 Connecting the Front Assembly and Rear Assembly



• When attaching the front and rear assemblies together, you may need to adjust the height of the rear assembly depending on the condition of the floor and other factors. Be careful not to let your hand get caught in a cover bracket or other objects.





2 Push the front and rear assemblies together, taking care not to allow the harnesses, that were drawn in **1**, to get caught.





When you push the assemblies together, the cover bracket protrusions of the rear assembly may come in contact with the front assembly depending on the condition of the floor and other factors. Push hard while taking care not to pinch your hands or other objects.

- Must be performed by a technician -



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- Must be performed by a technician -

8

9

- 6 Similarly, use the six supplied flange socket bolts (M8 x 16) to temporarily secure the supplied side joint (R).
- Hold the front and rear assemblies together so that there are no gaps between the joining surfaces, fully tighten the 12 flange socket bolts (M8 x 16) temporarily tightened in steps 5 and 6.





Connect the seven connectors of the harness drawn into the front assembly from the rear assembly, then secure them with cord clips. The harnesses leading to the game PC board go through the inside (back side) of the sheet metal on which the fan is attached.





– Must be performed by a technician –

8A-3-3 Removing the Rear Joint Frame

Remove the six flange socket bolts (M8 x 16), and remove the rear joint frame.



The rear joint frame is a required part during disassembly and transportation. Be sure to keep it together with the bolts in a safe place.



Flange socket bolt (M8 x 16)

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- Must be performed by a technician -

8A-3-4 Installing the Lower Side Cover



- Must be performed by a technician -

8A-3-5 Installing the Side Cover

1

Hang the supplied side cover (L) SW on the hook above and use five supplied Torx bolts (M5 x 12) and two supplied flat washers (Ø5 x 16) to secure it.





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- Must be performed by a technician -

8A-3-6 Installing the Rear Cover



Secure the supplied console box to the back cover, using the four Torx bolts (M5 x 12), and connect the connector.




supplied countersunk washer nuts (M5), and connect the connector.

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Place the supplied rear cover over the back cover and secure it using the seven supplied Torx bolts (M5 x 12).



Torx bolt (M5 x 12)



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- Must be performed by a technician -

8A-3-7 Level Adjuster Adjustment

Lower the level adjuster until the casters are at a height of approximately 5 mm from the floor.







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- Must be performed by a technician -

3





Remove the projector unit from the packing box, hold it by the handles with the lens facing downward, and hang the handles onto the hooks on both sides of the projector case.



5

- Must be performed by a technician -

4 Connect three connectors (HDMI connector, RS-232C cable, power cable) to the projector.



Lift up the projector unit and push it back into the projector case, being careful not to pinch the cables. Then, hang the front side of the handles onto the hooks to secure the projector unit.



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- Must be performed by a technician -

8





Install the front lid and the projector cover by following the procedures described in steps **1** and **2** in reverse.

8A-3-9 Installing the POP

1



Installing the POP display involves standing at an elevated height. Prepare an appropriate stepladder or footstool and be careful when working. Working in an unnatural body posture may result in injury or machine damage.

Place the supplied POP bracket on the roof duct and secure it using the three supplied Torx bolts (M5 x 12).



- 2
- Install the POP bracket (L) and (R) to the POP bracket using the included Torx bolts (M5 x 12).



Test Mode

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- Must be performed by a technician -

4





Lift up the reflector panel and install the POP board to the POP bracket with the six included Torx bolts (M5 X 12).





Roof grille

Test Mode

Te

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- Must be performed by a technician -

8A-4 Connecting the Power Cord and Ground Wire



- Be sure to install the ground wire. Failure to connect the ground wire may result in electric shock in the event of a short-circuit.
- In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.
- Be careful not to let the cabinet's sheet metal or other objects damage the cables that extend from the bottom of the cabinet. Doing so may result in fire or electric shock.

 Lay out the power cord and the LAN cable safely so that they will not cause players, bystanders or passersby to trip over them.





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- Must be performed by a technician -

8A-5 Connecting the LAN Cable (If Necessary)

Connect the LAN cable if connection to the NBLINE is necessary.



 In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch of the game cabinet before starting this task.



• When installing the machine, do not bend the LAN cable excessively or pull it too tight to avoid subjecting the cable to excessive load.

8A-5-1 Connection Diagram of the LAN Cable

1

Refer to the following figure for information on how to connect this machine to the router connected to the NBLINE or the switching hub, using a LAN cable.



* The connection work required for network communication differs according to the conditions that exist at the installation location. Therefore, this Operation Manual only describes an outline of the connections. For inquiries regarding individual support at each installation location, contact your distributor.

8A-5-2 Connecting the LAN Cable to the Machine

In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch of the game cabinet before starting this task.

Be careful not to let the cabinet's sheet metal or other objects damage the cables that extend from the bottom of the cabinet. Doing so may result in fire or electric shock.

1

Insert the LAN cable clamp into the mounting hole of the cord box assembly.



Insert the LAN cable into the connector of the cord box assembly and pass it through the LAN cable clamp.





• Check the shape and orientation of the connector before inserting the LAN cable.

- Fully insert the LAN cable connector. A disconnected LAN cable will not work correctly.
- Recommended LAN Cable: RJ45 CAT5e Ethernet Cable Straight-Through STP

8A-6 Post-Installation Checks (Before Power On)

When the installation operation is completed, check the following items before turning the main power switch

- on.
 - □ Has the machine been installed in conformance with the installation conditions? (See P-19 "5-1 Installation Conditions".)
 - Are the power capacity conditions met?
 - Are the power cord and the LAN cable connector fully inserted?
 - $\hfill\square$ Has the ground wire been installed?
 - □ Is the adjuster correctly adjusted?
 - $\hfill\square$ Are the front and rear assemblies firmly connected?
 - Are the lower side cover, the side cover and the rear cover installed?
 - ☐ Have the power cord and the LAN cable been installed using cable molding or other means so that players and other customers do not trip over them?

8A-7 Inserting the USB Dongle

2

WARNING

- In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch of the game cabinet before starting this task.
- The supplied USB dongle is intended only for use with this machine. Do not use it with other instruments. Do not insert any USB dongles that are not designed for use with this machine. Doing so may result in mechanical malfunction.
 - Insert the supplied USB dongle into the USB port No. 3 on the game PC board. (See P-101 "(1) Replacing the Game PC Board".)
 - Close the service door using the supplied service key, and secure it with a Torx bolt (M5 x 30). (See P-63 "8A-3-1 Removing the Service Door".)

Fest Mode

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- Must be performed by a technician -

Turning the Power Switch On 8A-8

1 Turn on the main power switch located on the front assembly.



- Open the service door using the supplied service key.
- 3 Set the system power switch to ON.





8A-9 Post-Installation Checks (After Power On)

After turning the main power switch on, check the following items.

- Are images projected over the entire dome screen (all the way to the edges)? (See P-179 "8B-6-2 Adjusting the Projector Position".)
- □ Is the network communication status normal? (See P-56 "7-7 About the Network", if connection to the NBLINE is necessary.)
- Do the control lever, the throttle lever, and the view change button work correctly? (See P-38 "(b) SWITCH TEST".)

Set the game cost, the volume, and the maintenance time as required. (See P-33 "7-6 Test Mode".)

Now, installation and assembly are complete. (See P-25 "7. Operation".)

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- Must be performed by a technician -

8B. Service



In order to avoid electric shock, accident or injury to yourself or other people, be sure to turn off the main power switch before performing service work (such as repairs or correcting malfunctions).

8B-1 Inspection and Service

WARNING

Perform periodic service. Failure to perform service may result in an accident.

 Perform the pre-operation inspection every day. This is required to prevent accidents. (See P-26 "7-3 Preoperation Inspection".)

8B-1-1 Points for Inspection

Periodically check the following inspection points for any abnormalities.

(1) Level Adjuster Inspection

• Check that the level adjusters are fixed correctly. (See P-74 "8A-3-7 Level Adjuster Adjustment".)

(2) Power Cord Inspection

- Check that the power cord is firmly inserted into the cord box assembly of this machine and an outlet of the building. (See P-82 "8A-4 Connecting the Power Cord and Ground Wire".)
- Clean any dust or dirt from the connection parts.
- Check for cracks or dirt on the power cord covering. If there is any abnormality on the power cord, be sure to replace it.

(3) LAN Cable Inspection (If Connection to the NBLINE is Necessary)

- Check that the LAN cable connector is firmly inserted.
- Check for cracks or dirt on the LAN cable. If there is any abnormality on the LAN cable, be sure to replace it.

(4) Projector Inspection

- Check that images are projected properly from the projector.
- Check that the projection range of the projector matches the screen position. (See P-179 "8B-6-2 Adjusting the Projector Position".)
- Check the projector installation and adjustment screws for loose screws.
- Check that the filter of the projector unit or the projector box is not clogged with dust or other materials. If it is clogged, clean it or replace it. (See P-174 "(3) Cleaning the Filter of the Projector Unit" and P-175 "(4) Replacing the Filter of the Projector Cover".)

(5) Loose Screw Inspection

Check the following parts for loose screws. Fully retighten any loose screws.

- Fixing screws on the control lever assembly (See P-117 "(1) Replacing the Control Lever Assembly".)
- Fixing screws on lever grip A and lever grip B (See P-120 "(3) Replacing the Micro Switch".)
- Fixing screws on the throttle lever assembly (See P-138 "(1) Replacing the Throttle Lever Assembly".)
- Fixing screws on the seat assembly
- Others

(6) Game PC Board Inspection

• If dust accumulates around the air inlet of the game PC board, clean it.

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- Must be performed by a technician -

8B-1-2 Points for Service

Replenish the grease on the control lever and the throttle lever once every 6 months (approx.). Clean off the old grease and apply fresh silicon grease (recommended product: G-40M, Shin-Etsu Chemical Co, Ltd.) to the stainless steel part, spring stopper and shaft.

Also reapply grease when the lever operation becomes stiff. (See P-127 "(7) Replacing the Spring or Spring Stopper".)





• Be sure to wipe off excess grease.

 Do not use anti-rust spray or lubricant spray, as these products will make the grease come off.

Troubleshooting 8**B**-2

- In order to avoid electric shock, accident or injury to yourself or others, be sure to turn off the main power switch before starting this task.
- If the condition does not fall under the items from 8B-2-1 to 8B-2-5, or if the solution does not improve the condition, turn off the main power switch immediately, stop operations, and contact your distributor. Continuing to operate the machine may cause an accident.
 - NOTICE • Before you conclude that the machine has malfunctioned, check that each connector is firmly connected.
 - Never test the game PC board, the NA-JV (S) PC board, the LED filter PC board, or the amplifier PC board for continuity inspection by using a tester or other devices. BANDAI NAMCO Games Inc. will repair them. The internal voltage of the tester may damage the IC.
 - To request repairs or to order parts, contact your distributor.

8B-2-1 **Overall**

Symptom	Main cause	Solution	Reference section
• The machine does not start.	• The USB dongle is not inserted.	Insert the USB dongle.	P-101
	• The system power switch is set to OFF.	· Set the system power switch to ON.	P-32
	A game PC board malfunction A USB dongle malfunction.	· Contact your distributor.	-
•Operation is not stable or the machine operates incorrectly.	•The machine is not used with the power supply voltage in the following ranges: Model operating on 110 VAC: 100 to 120 VAC Model operating on 120 VAC: 110 to 130 VAC Model operating on 220 VAC: 210 to 230 VAC Model operating on 230 VAC: 220 to 240 VAC	•Disconnect any high-capacity devices (such as an air conditioner or large machine) from the same line to secure the specified power supply voltage.	-
•The power turns off during operation.	•The fuse has burned out.	Replace with a new fuse of the specified capacity. If the fuse burns out frequently, there is a mechanical abnormality.	-
•There is no sound coming from	• The volume setting is low.	·Set the appropriate volume.	P-45
the speakers.	·S5.1ch AMP PC board malfunction.	•Replace the S5.1ch AMP PC board.	P-106
•There is no sound coming from the main speaker or there is no sound coming from the correct speaker (side, seat, woofer).	•The sound connectors are not connected correctly.	Refer to the Operation Manual and connect the connectors correctly.	P-101 P-106
·Service switch does not work.	· A connector is disconnected.	Insert the connector securely.	P-101 P-104
	• NA-JV (S) PC board malfunction.	·Replace the NA-JV (S) PC board.	P-104
	· A door switch malfunction.	·Replace the door switch.	-

8B-2-2 Front Assembly

Symptom	Main cause	Solution	Reference section
• There is no wind coming from	· A connector is disconnected.	Insert the connector securely.	P-104
the fan.			P-111
	· A fan malfunction.	Replace the fan.	P-111
	• NA-JV (S) PC board malfunction.	·Replace the NA-JV (S) PC board.	P-104

8B-2-3 Rear Assembly

Symptom	Main cause	Solution	Reference section
There is no sound coming	\cdot The volume setting is low.	\cdot Set the appropriate volume.	P-45
from the seat speakers or the	\cdot A connector and a Faston terminal	\cdot Insert the connector and the	P-101
bottom speakers.	are disconnected.	Faston terminal securely.	P-106
	·S5.1ch AMP PC board malfunction.	•Replace the S5.1ch AMP PC board.	P-106
• The LED module does not light	· A connector is disconnected.	Insert the connector securely.	P-104
up.			P-151-P-159
			P-163
	The LED regulator malfunction.	·Replace the LED regulator.	P-161
	The LED filter PC board	·Replace the LED filter PC board.	P-163
	malfunction.		

* For coin errors, see P-98 "(1) Hardware Errors". For projector errors, see P-99 "(2) Projector Errors".

Symptom	Main cause	Solution	Reference section
· Cannot shoot.	·A connector is disconnected.	Insert the connector securely.	P-101
			P-113
	·A USB camera malfunction.	Replace the USB camera.	P-113
The lever does not function.	• The analog interface has not been calibrated.	· Calibrate the analog interface.	P-37
	· A connector is disconnected.	Insert the connector securely.	P-104
			P-117
			P-138
	· An analog interface	· Replace the analog interface.	P-118
	malfunction.		P-139
	·NA-JV (S) PC board malfunction.	·Replace the NA-JV (S) PC board.	P-104
· A button switch does not	· A connector is disconnected.	Insert the connector securely.	P-104
function.			P-117
	\cdot A micro switch malfunction.	Replace the micro switch.	P-120
	·NA-JV (S) PC board	·Replace the NA-JV (S) PC board.	P-104
I he throttle or control	I he silicon grease has	· Apply new silicon grease.	P-92
iever movement is stiff.	become worn (dry).		D 07
• An abnormality in the	The throttle/control lever	· Calibrate the throttle/control lever.	P-37
throttle or control lever	(analog interface) has not		
neutral range.	been calibrated		
	· The spring stopper has	· Replace the spring stopper.	P-12/
	become worn.		

8B-2-4 Control Lever/Throttle Lever/USB Camera

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- Must be performed by a technician -

8B-2-5 Projector Assembly

When the lamp unit life of the projector expires, the LED module shown in the diagram below will blink red and yellow.

When the screen is blank and the LED modules of the top cover and the rear cover are not blinking, there may be a problem with the projector. Request a technician to solve the problem.



Symptom	Main cause	Solution	Reference section
 The screen is blank and the LED modules of the top cover and the rear cover are blinking red and yellow. WARNING voice "Please call the shop staff. Lamp usage time exceeded of the projector. Please replace the lamp, and reset the usage time" is played. 	•As the lamp operation time exceeded 3,400 hours, it stopped operating. •Lamp unit life.	 Prepare a replacement lamp unit and replace it with the old one. After replacing the lamp unit, reset the lamp operation time in Test mode on the machine. 	P-169
·23-1 PROJECTOR LAMP WARNING is displayed in the screen. ·WARNING voice "It is time to replace the lamp soon" is played.	The lamp operation time has exceeded 3,300 hours. Lamp unit life is nearing the end.		
 The screen is blank and the LED modules of the top cover and the rear cover are blinking red and yellow. WARNING voice "Please call the shop staff. Non-lighting lamp error of the projector. Turn off the power, please reboot at later" is played. 	 The lamp unit has become hot making it difficult to light. Lamp unit malfunction. Projector malfunction. 	 Turn off the main power switch, wait for a moment, and turn on the power again. If the same thing happens after the lamp unit has cooled down, replace the lamp unit. If the same thing happens after replacing the lamp unit, contact your distributor. 	P-88 P-168 P-169
 The screen is blank and the LED modules of the top cover and the rear cover are not blinking red and yellow. WARNING voice "Please call the shop staff. Temperature sensor error of the projector. Please clean the filter" is played. 	The inside of the projector has become hot.	Turn off the main power switch and clean the projector filters, then turn on the power again.	P-42 P-88 P-174 P-175

1

– Must be performed by a technician –

Symptom	Main cause	Solution	Reference
Symptom	Wall Gause	30101011	section
 The screen is blank and the LED modules of the top cover and the rear cover are not blinking red and yellow. WARNING voice "Please call the shop staff. Fan error of the projector. Please call for repair" is played. 	 A malfunction of the cooling fan inside of the projector. 	·Contact your distributor.	-
 The screen is blank and the LED modules of the top cover and the rear cover are not blinking red and yellow. WARNING voice "Please call the shop staff. Power failure error of the projector. Please call for repair" is played. 	 A power malfunction inside the projector. 	·Contact your distributor.	-
· The screen is blank and the LED modules	· The projector power is off.	Turn on the projector power.	P-185
of the top cover and the rear cover are not blinking red and yellow.	The connectors of the cables connecting the projector and the game PC board are disconnected.	Check the connection of each connector of the projector and the game PC board.	P-75 P-101
	The projector does not work because the lamp cover has come off.	Correctly install the lamp cover.	P-169
	·Projector malfunction.	·Contact your distributor.	-
The screen operates but does not display any image. The entire screen is blue.	The connectors of the video cables connecting the projector and the game PC board are disconnected.	• Securely insert the connectors of the video cables connecting the projector and the game PC board.	P-75 P-101
Images are not displayed correctly.	 An abnormality in some of the projector settings. 	 Reset the projector to the factory default in Test mode. 	P-42
	• A connector is disconnected.	Insert the connector securely.	P-66 P-77
The image is out of focus.	The projector unit lens or lens cover is dirty.	Clean the projector unit lens and lens cover.	P-58 P-59
· The image is dark.	The brightness and contrast are not adjusted correctly.	Adjust the brightness and contrast.	P-188
	 Lamp unit life of the projector unit is nearing the end. 	 Replace the lamp unit of the projector unit. 	P-169
The color appears faded. The hue is poor.	The red, green and blue levels are not adjusted correctly.	· Adjust the red, green and blue levels.	P-188
	\cdot The screen is dirty.	· Clean the screen.	P-57
	Lamp unit of the projector unit is nearing the end of its operation time.	·Replace the lamp unit of the projector unit.	P-42 P-169
Cannot operate the projector unit with a remote controller.	 The remote controller batteries have run down. 	 Replace the remote controller batteries. 	P-183
	•The remote controller batteries are not installed correctly.	Install the remote controller batteries correctly.	P-183
	• The remote controller is not pointed at the photosensor of the projector unit.	Point the remote controller at the photosensor of the projector unit when operating it.	P-184

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- Must be performed by a technician -

8B-3 Error Messages

When this machine detects an error on start-up or during game play, it displays an error screen and stops operation.

Refer to the error code table below to identify the cause of the error and resolve it.

If the error display remains on the screen after performing the appropriate solution, set the Test switch to ON and then OFF again to cancel the error display.

If a screen not shown in the error code table is displayed, or the error message is displayed again after performing the appropriate solution, there may be some other cause. Contact your distributor.

(1) Hardware Errors

When this machine detects an error on start-up or during game play, it displays an error screen and stops operation.

Error oodo	Error magaza	Main agusa	Colution	Reference
Enorcoue	Entor message	Main cause	Solution	section
1-11	COIN ERROR1 (COIN	\cdot The coin selector is jammed.	\cdot Check the coin selector and resolve	P-143
	UNIT1)		the trouble.	P-148
		· A coin selector or micro switch	\cdot Replace the coin selector or the micro	P-143
		malfunction.	switch.	P-144
				P-148
		The bound of the second s		P-149
		Ine harness to the coin selector or the	Check the connection of the	P-144
		Micro Switch is not connected correctly.	CONTRECTOR.	P-149
1 10		NA-JV (5) PC board manufiction.	• Replace life NA-JV (5) PC board.	P-104
	UNIT1)	A Service Switch mailunction.	Contact your distributor.	-
	UNITT)	\cdot NA-JV (5) PC poard manunction.	· Replace the NA-JV (S) PC board.	P-104
1-21	Coin Error 1 (Coin Unit2)	· A bill validator malfunction.	· Replace the bill validator.	P-145
	,	·NA-JV (S) PC board malfunction.	·Replace the NA-JV (S) PC board.	P-104
1-22	Coin Error 2 (Coin Unit2)	· A Service switch malfunction.	·Contact your distributor.	-
		·NA-JV (S) PC board malfunction.	·Replace the NA-JV (S) PC board.	P-104
2-6	CLOCK ERROR 1	· The time of the cabinet is incorrectly set.	·Contact your distributor.	-
2-7	CLOCK ERROR 2	· A game PC board malfunction.	·Contact your distributor.	-
3-1	I/O ERROR 1	The harness of the NA-JV (S) PC board is not connected correctly.	Check the connection of the connector.	P-101 P-104
		·NA-JV (S) PC board malfunction.	·Replace the NA-JV (S) PC board.	P-104
3-2	I/O ERROR 2	•The harness of the NA-JV (S) PC board is not connected correctly.	·Check the connection of the connector.	P-101 P-104
		·NA-JV (S) PC board malfunction.	·Replace the NA-JV (S) PC board.	P-104
8-1	CAMERA ERROR	• The harness of the USB camera is not connected correctly.	·Check the connection of the connector.	P-101 P-113
		·A USB camera malfunction.	· Replace the USB camera.	P-113
19-21	USB DONGLE ERROR (INVALID DONGLE)	 A USB dongle for another model is inserted. 	 Turn off the main power switch, and then insert the USB dongle for this machine. If the same error is displayed when you turn on the main power switch, contact your distributor. 	P-30 P-101

Error code	Error message	Main cause	Solution	Reference section
19-22	USB DONGLE ERROR	· A USB dongle is not inserted.	· Check that the USB dongle is correctly	P-101
	(NO DONGLE)		inserted.	
19-23	USB DONGLE ERROR	· Two or more USB dongles are inserted.	If the USB dongle is correctly inserted,	
	(UNKNOWN)	-	contact your distributor.	

Projector Errors (2)

Error	Error	Main aguag	Solution	Reference
code	message	Main cause	301011011	section
23-1	PROJECTOR LAMP	·Lamp unit life is nearing the end.	\cdot Prepare a new lamp unit and	P-42
	WARNING		replace the lamp unit promptly.	P-169
23-8	PROJECTOR OTHER	· The game PC board and the projector	·Check the connection of the	P-75
	ERROR	cannot communicate.	connector.	P-101
		Projector malfunction.	·Contact your distributor.	-

Network Errors (3)

If the connection to the NBLINE is required to operate this machine, a network error will be displayed. However, error messages with * will not be displayed on the game screen or the Attract screen. They will be displayed in the upper right of the main menu (P-33 "7-6-1 Description of the Main Menu Screen (MENU)") in Test mode.

Error	Error	Main cause	Solution	Reference
code	message			section
5-5	NETWORK	The LAN cable is not connected	·Check the connection of the	P-86
	DISCONNECTION ERROR*	correctly.	connector.	P-101
5-6	ERROR DEVICE*	· A game PC board malfunction.	·Contact your distributor.	-
5-10	ERROR LIBRARY NOINT*			
5-20	ERROR GS AUTH NG	An abnormality in the connection or authentication of the game server.	·Contact your distributor.	-
5-21	ERROR GS TIMEOUT*			
5-22	ERROR GS HOST NOTFOUND*			
5-23	ERROR GS NG*			
5-40	ERROR NBIP TIMEOUT*	 An abnormality in the NBLINE's connection to the authentication 	·Contact your distributor.	-
5-41	ERROR NBIP HOST NOTFOUND*	server or in authentication.		
5-42	ERROR DNS TIMEOUT*			
5-43	ERROR DNS HOST NOTFOUND			
5-44	ERROR AUTH NG*			
5-45	ERROR AUTH TIMEOUT*			
5-50	REVISION ERROR	The revision of the game server and that of the software are different.	 Check that the software update is available, then restart the machine using the system power switch, and update the software. 	P-32 P-54

1

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– Must be performed by a technician –

Error	Error	Main aguas	Colution	Reference
code	message	Main cause	Solution	section
5-51	INTERNAL SERVER ERROR*	\cdot The game server is down due to	\cdot Wait for a while and then check the	-
		service or other reasons.	communication.	
5-52	SERVICE UNAVAILABLE*		·Contact your distributor.	
5-53	INCONSISTENT SERVER	· An abnormality in the connection with	· Check the network connection.	P-51
	ERROR*	the game server.		P-53
5-54	FIRST CERTIFICATE ERROR	\cdot An abnormality in the communication	·Check the network connection.	P-51
		with the authentication server.		P-53
20-1	VERSION UP ERROR	\cdot Failed to update the software.	\cdot Use the system power switch to	P-32
			restart the machine and attempt to	
			update the software again.	
22-1	CERTIFICATE ERROR	\cdot Continuous offline operating time has	 Check the network connection. 	P-32
		exceeded 240 hours.	If there are no problems, use the	P-51
			system power switch to restart the	P-53
			machine and communicate with the	
			authentication server.	
		\cdot Game cost information that has not	 Check the network connection. 	P-32
		been sent to the game server has	If there are no problems, use the	P-51
		exceeded the prescribed number.	system power switch to restart the	P-53
			machine and communicate with the	
			game server.	
22-2	CHARGING DATA ERROR	\cdot An abnormality in the billing data.	 Check the network connection. 	P-32
				P-51
		·An abnormality in the connection with		P-53
		the game server.		
22-3	NBLINE POINT BALANCE	\cdot The remaining NBLINE points total is	· Charge the NBLINE points.	-
	ERROR	below the value required for one play.		

8B-4 Network Trouble

If the machine offers NBLINE model, see P-56 "7-7 About the Network". If the problem persists, contact your distributor.

8B-5 Removing, Installing, and Replacing Each Part

8B-5-1 Front Assembly

1

2

(1) Replacing the Game PC Board



- Check the connector orientations, connect the connectors firmly to each other, and lock them securely.
- After replacing a game PC board, be sure to adjust the control lever assembly and throttle lever assembly, and check the volume and other settings. (See P-33 "7-6 Test Mode".)
- Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)
- Remove the service door. (See P-63 "8A-3-1 Removing the Service Door".)

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Replace the game PC board with a new one, and install the new one by following the removal procedure in reverse.

8

Test Mode

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- Must be performed by a technician -



- 4
 - Remove the five Phillips pan head screws (with flat and spring washers) (M3 x 6), replace the NA-JV (S) PC board with a new one, and install the new one by following the removal procedure in reverse.



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- Must be performed by a technician -



Tag (IN3 (Light Green)) Tag (IN2 (Orange))


Remove the five Phillips pan head screws (with flat and spring washers) (M3 x 6), replace the S5.1ch AMP PC board with a new one, and install the new one by following the removal procedure in reverse.



Phillips pan head screw (with a flat spring washer) (M3 x 6)

- Must be performed by a technician -

(4) Replacing the Switching Regulator

The machine uses a 5V switching regulator, a 12V switching regulator, and a 24V switching regulator.



In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.

touching the surface of grounded metal.)

- PC boards are vulnerable to static electricity. If a person handles a PC board while charged with static electricity, the parts on the PC board may be damaged.
 Before handling a PC board, discharge the static electricity from your body. (Example:
 - Check the connector orientations, connect the connectors firmly to each other, and lock them securely.

Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)

- Remove the service door. (See P-63 "8A-3-1 Removing the Service Door".)
- Remove the two Torx bolts (M5 x 12) and the three countersunk washer nuts (M4), and remove the service panel R.

*When removing the service panel R, [1] lift up its service door side approximately 15 mm, [2] pull out the panel in the direction of the arrow to release it from the hook at the end.





1

4 Disconnect the three connectors.

5



Remove the countersunk washer nut (M4), release the two lower catches from the holes, and then pull out the power supply assembly.



Test Mode

```
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```

6 Remove the two connectors and the four Phillips pan head screws (with flat and spring washers) (M3 x 6) of the failed switching regulator, replace the switching regulator with a new one, and install the new one by following the removal procedure in reverse.









3

Remove the five Torx bolts (M5 x 12), and remove the back panel.



Disconnect the connector and the three Faston terminals, then release the harnesses from the cord clip.





Fan assembly

5 Remove the two Phillips pan head screws (with flat and spring washers) (M4 x 50) and the two countersunk washer nuts (M4), and replace the fan with a new one by installing the new one so that the air blows out towards the player side, following the removal procedure in reverse.



NOTICE

• When installing, secure the harnesses with the cord clip so that the harness does not touch the fan motor.

– Must be performed by a technician –



113

Test Mode



4 Remove the two Phillips pan head screws (with flat and spring washers) (M4 x 10), and remove the camera cover.





6

Disconnect the connector.

Remove the two Phillips pan head screws (M2 x 4), replace the USB camera with a new one, and install the new one by following the removal procedure in reverse.







Use a standard screwdriver to rotate the fuse holder cap counter-clockwise and remove the fuse.



- Must be performed by a technician -

4 Replace the fuse with either of the following fuses according to the machine specifications, and install the new one by following the removal procedure in reverse.

i install the new one by	lonowing
Specifications:	Fι
110 VAC / 120 VAC	SI
220 VAC / 230 VAC	SI

Fuse rating: Slow-blow fuse T10A 250 V Slow-blow fuse T5A 250 V

Ĩ

- Must be performed by a technician -

8B-5-2 **Control Lever Assembly** (1) Replacing the Control Lever Assembly WARNING In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task. 1 Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".) 2 Remove the four Torx bolts (black) (M5 x 12) and lift up the control lever assembly. Disconnect the connector and replace the control lever assembly. 3 **Control lever assembly** Torx bolt (M5 x 12) Control lever assembly Throttle lever assembly Connector 4 To install, perform the procedure in reverse. NOTICE When installing, check the connector orientations, connect the connectors firmly to each other, and lock them securely. When installing, take care not to allow the connectors and harnesses to get caught.

After replacement, be sure to perform calibration. (See P-37 "(a) I/F CALIBRATION".)

- Must be performed by a technician -



6 R

Replace the analog interface.

Install the new analog interface onto the analog interface bracket while fitting its projection into the position alignment groove in the bracket.

7 To install, perform the procedure in reverse.



When installing the analog interface, align the flat surface of the analog interface shaft with the position of the D-shaped hole.



• After replacement, be sure to perform calibration. (See P-37 "(a) I/F CALIBRATION".)

• When installing, be careful not to pinch the harness in the lever's moving parts.

- Must be performed by a technician -

(3) Replacing the Micro Switch

In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.



Remove the control lever assembly. (See P-117 "(1) Replacing the Control Lever Assembly".)



2

Lower the rubber cover until the grip harness is visible.





Remove the two button head screws with spring washer (M4 x 8) and the button head screw with spring washer (M4 x 30), and remove lever grip A.





 Be sure not to remove the button head screw with spring washer (M4 x 8) on the top of lever grip A to keep the main trigger installed.

5 Remove the four special Phillips pan head screws (M2.3 x 12), four spring washers and the Phillips pan head screw with a flat spring washer (M4 x 8), and remove the micro switches and clamps.



Melt the solder of the micro switch terminals and replace the micro switch. * Be sure not to remove the contact (metal part) crimped at the end of the wire.

Micro switch (for special button) Micro switch (for main trigger)

6

NOTICE



Control lever metal part B

• When installing, take care not to allow the harness to get caught.

- Be very careful when handling the soldering iron.
- When soldering the wiring to the micro switch, ensure that the combinations of wiring colors and terminals are correct.
- Be sure to place lever metal part B below the micro switch (for the main trigger).

Test Mode

- Must be performed by a technician -



7

Check that the grip harness makes a full right hand turn around the shaft as shown in the following figure.





To install, perform the procedure in reverse. Install the harness along the shaft so that there are no gaps between them.

NOTICE

• After replacement, be sure to perform calibration. (See P-37 "(a) I/F CALIBRATION".)





In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.

- 1 Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)
- 2 Remove the control lever assembly. (See P-117 "(1) Replacing the Control Lever Assembly".)
- 3 Disassemble the lever grip. (See P-120 "(3) Replacing the Micro Switch" steps 3 to 4.)

4 Remove the main trigger, then remove the main trigger spring and replace it with a new one. Main trigger



- To install, perform the procedure in reverse. (See P-120 "(3) Replacing the Micro Switch" steps **3** to **4**.)

5

After replacement, be sure to perform the I/O test for each switch. (See P-38 "(b) SWITCH TEST".)

- Must be performed by a technician -

(5) Replacing the Special Button Spring



In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.

- 1 Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)
- 2 Remove the control lever assembly. (See P-117 "(1) Replacing the Control Lever Assembly".)
 - Disassemble the lever grip. (See P-120 "(3) Replacing the Micro Switch" steps 3 to 4.)

Remove the special button, then remove the special button spring and replace it with a new one



5

3

4

To install, perform the procedure in reverse. (See P-120 "(3) Replacing the Micro Switch" steps **3** to **4**.)



 After replacement, be sure to perform the I/O test for each switch. (See P-38 "(b) SWITCH TEST".)





- Must be performed by a technician -

5 Rotate the weight, remove the two Phillips pan head screws (M2.3 x 2.5) and remove the vibration motor. Replace it with a new vibration motor by following the removal procedure in reverse.



Wind the harness of the new vibration motor around the ferrite core two times, attach the core spacer to the ferrite core, and install the vibration motor with the ferrite core and core spacer to lever base B.





6

To install, perform the procedure in reverse.



5

Replace the spring or spring stopper.





To install, perform the procedure in reverse.

NOTICE

- When installing it, take care not to allow the harness to get caught in the lever's moving parts.
- After replacement, be sure to perform calibration. (See P-37 "(a) I/F CALIBRATION".)

- Must be performed by a technician -

(8) Replacing the Rubber Cover

3

4

5

6

NOTICE

In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.

- **1** Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)
- 2 Remove the control lever assembly. (See P-117 "(1) Replacing the Control Lever Assembly".)

Remove grips A and B of the control lever assembly. (See P-120 "(3) Replacing the Micro Switch" steps **3** to **5**.)

Remove the six button head screws with spring washers (M4 x 8) and remove the cover fixing frame and rubber cover. Take care not to break the wiring.



Replace the rubber cover.

To install, perform the procedure in reverse. (See P-120 "(3) Replacing the Micro Switch" steps **3** to **5**, **7**, and **8**.)

● After replacement, be sure to perform calibration. (See P-37 "(a) I/F CALIBRATION".)



- Must be performed by a technician -

8

6 Remove the two Phillips pan head screws (M3 x 20) and remove the X-axis and Y-axis analog interfaces.

7 Remove the two Phillips pan head screws (with spring washers) (M5 x 14) and remove the clamp base along with the lever harness and grip harness.



Remove the two Phillips pan head screws (with spring washers) (M5 x 14) and remove the lever sub-assembly from the installation plate.



Phillips pan head screw (with spring washers) (M5 x 14) (reuse)



*The spring stopper, spring, spring end and E-type retaining ring are to be reused. Discard the removed lever sub-assembly and stainless steel plate.



Remove the four cap bolts (with spring washers) (M5 x 35) of the new lever sub-assembly, and remove the guide plate.

New lever sub-assembly

10







Test Mode

- Must be performed by a technician -









Pull the rubber cover up to the base of the lever arm.





Connect the connector and use the four Torx bolts (M5 x 12) to install the control lever. (See P-117 "(1) Replacing the Control Lever Assembly".)



- ullet When installing, take care not to allow the harness to get caught.
- After installation, be sure to perform calibration. (See P-37 "(a) I/F CALIBRATION".)

2

(10) Replacing the OC PROTECTOR PC Board



- In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.
- In some cases, the OC PROTECTOR PC board may become hot. In order to avoid accident or injury to yourself or others, be sure to turn off the main power switch and wait 3 minutes or more before starting this task.
 - 1 Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)

Remove the Torx bolt (black) (M5 x 12) and remove the camera box cover.









To install, perform the procedure in reverse.



8B-5-3 Throttle Lever Assembly

(1) Replacing the Throttle Lever Assembly



To install, perform the procedure in reverse.

NOTICE

4

- When installing it, check the connector orientations, connect the connectors firmly to each other, and lock them securely.
- ullet When installing it, take care not to allow the connectors and harnesses to get caught.
- After replacement, be sure to perform calibration. (See P-37 "(a) I/F CALIBRATION".)



Test Mode



• When installing, be careful not to pinch the harness in the lever's moving parts.





In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.



2

Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)



Remove the throttle lever assembly. (See P-138 "(1) Replacing the Throttle Lever Assembly".)







When replacing the LED, insert a new LED by aligning its tab with the groove in the lamp holder.



- Must be performed by a technician -

5 Remove the nut and remove the view change button from the throttle lever assembly.





To install, perform the procedure in reverse.
8B-5-4 Coin Box Assembly

2

3

(1) Replacing the Coin Selector (U.S. Model)



In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.

- When installing the coin selector, take care not to allow the connectors and harnesses to get caught.
 - After replacement, be sure to check the operation of the coin switch by dropping a coin into the slot. (See P-38 "(b) SWITCH TEST".)
 - 1 Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)
 - Open the coin door using the supplied service key. (See P-146 "(4) Replacing the CASHFLOW (European Model)".)
 - Loosen the screws of the coin selector base, slide the two stoppers to unlock them, and replace the coin selector.





Lock the stopper by following the unlocking procedure in reverse, and close the coin door.



Suzo-Happ \$.25 USA Coin Mech (P/N 42-3079-100)

- Must be performed by a technician -

(2) Replacing the Coin Micro Switch (U.S. Model)



In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.

1 Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)



(European Model)".)

Open the coin door using the supplied service key. (See P-146 "(4) Replacing the CASHFLOW





Remove the two Phillips pan head screws (#4 x 13/16) and replace the micro switch.



To install, perform the procedure in reverse.



5

• When installing, insert the Faston terminals all the way in position.

- When installing, take care not to allow the connectors and harnesses to get caught.
- Two Faston terminals are provided. When installing them, refer to the above figure for information on how to connect the Faston terminals correctly.

(3) Replacing the Bill Validator (U.S. Model)



In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.





3

Use the bill validator key to open the door.





Disconnect the connector, remove the four bolts, and replace the bill validator.



To install, perform the procedure in reverse.

Test Mode

- Must be performed by a technician -

(4) Replacing the CASHFLOW (European Model)

In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.

Turn off the main power switch. (See P-88 "8A-8 Turning the Power Switch On".)



1

Use the cashbox key to open the door.



3

Disconnect the connector, slide the stoppers in two places to unlock them, and then remove the CASHFLOW to replace it.





To install, perform the procedure in reverse.

Specified coin selector MEI CASHFLOW340 (P/N 65500327)

(5) Replacing the Fuse of Coin Assembly (U.S. and European Models)



- In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.
- Never use a fuse other than the specified type. The fuse must be installed to prevent fire or accident.
- If the fuse blows out immediately after it is newly installed, other causes may be suspected. Immediately turn off the main power switch, pull out the power cord plug from the outlet, and contact your distributor.
 - NOTICE To order a fuse, contact your distributor.
 - 1 Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)
 - Open the coin door using the supplied service key. (See P-146 "(4) Replacing the CASHFLOW (European Model)".)
 - Use a standard screwdriver to rotate the fuse holder cap counter-clockwise and remove the fuse.





2

3

Replace the fuse with either of the following fuses according to the machine specifications, and install the new one by following the removal procedure in reverse.

Specifications:	
U.S.	SI
European	Fa

Fuse rating: low-blow fuse T6. 3 A 250 V ast Acting fuse 2A 250V





Close the coin door.



6

To install, perform the procedure in reverse.

- Must be performed by a technician -

8B-5-5 Rear Assembly

(1) Replacing the Shock Absorber

One shock absorber is provided to prevent the door from slamming.



(2) Replacing the Side LED Module of the Rear Cover

This section describes procedures for replacing each side LED module located on both sides of the rear cover.



In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.

Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)





Disconnect the connector of the LED module.

1

3

- Must be performed by a technician -

4 Removal of one Phillips pan head screw (with flat and spring washer) (M4 x 8) will enable the LED holder to be removed. Remove all four LED holders and the LED module in the same





Similarly, replace the LED module on the opposite side.

(3) Replacing the LED Module for the Center Window

This section describes procedures for replacing the LED module at the center window of the rear cover.



In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.

Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)





1

Disconnect the two connectors of the LED module.



Test Mode

– Must be performed by a technician –

5



Removal of one Phillips pan head screw (with flat and spring washer) (M4 x 8) will enable the LED holder to be removed. Remove two LED holders and replace the LED module.



(4) Replacing the LED Module for the Console Box

This section describes procedures for replacing the LED module inside the console panel at the center of the rear cover.



In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.

- PC boards are vulnerable to static electricity. If a person handles a PC board while charged with static electricity, the parts on the PC board may be damaged.
 Before handling a PC board, discharge the static electricity from your body. (Example: touching the surface of grounded metal.)
 - **1** Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)













When securing the LED module with the locking clamps, be sure not to allow the light emitters or elements to get caught.



1

- Must be performed by a technician -

(5) Replacing the LED Modules for the Title Logo Display

This section describes procedures for replacing the LED modules for the title logo display on the top cover. The machine uses one 500-mm LED module and three 600-mm LED modules.



- In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.
- Replacement of the LED module for the title logo display involves standing at an elevated height. Prepare an appropriate stepladder or footstool and have two or more people perform the work. Working in an unnatural body posture may result in injury or machine damage.
- NOTICE
- PC boards are vulnerable to static electricity. If a person handles a PC board while charged with static electricity, the parts on the PC board may be damaged.
 Before handling a PC board, discharge the static electricity from your body. (Example: touching the surface of grounded metal.)
- 1 Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)
- 2 Remove the console panel and rear cover. (See P-70 "8A-3-6 Installing the Rear Cover".)
- 3 Remove the top cover. (See P-61 "8A-1-1 Removing the Top Cover".)
- 4 Disconnect the connector of the LED module.



Release the four locking clamps and replace the LED module.

– Must be performed by a technician –

5



When securing the LED module with the clips, be sure not to allow the light emitters or elements to get caught.



(6) Replacing the Side LED Module of the Top Cover

This section describes procedures for replacing each side LED module located on both sides of the top cover.



Connector

- Must be performed by a technician -

5 Removal of one Phillips pan head screw (with flat and spring washer) (M4 x 8) will enable the LED holder to be removed. Remove all three LED holders and the LED module in the same way.



(7) Replacing the Regulator for the LED



- In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.
- Replacement of the side LED regulator involves standing at an elevated height. Prepare an appropriate stepladder or footstool and have two or more people perform the work. Working in an unnatural body posture may result in injury or machine damage.
 - PC boards are vulnerable to static electricity. If a person handles a PC board while charged with static electricity, the parts on the PC board may be damaged.
 Before handling a PC board, discharge the static electricity from your body. (Example: touching the surface of grounded metal.)
 - 1 Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)
 - 2 Remove the console panel and rear cover. (See P-70 "8A-3-6 Installing the Rear Cover".)
 - 3 Remove the top cover. (See P-61 "8A-1-1 Removing the Top Cover".)
 - 4 Remove the four Torx bolts (M5 x 12) and remove the regulator cover.



– Must be performed by a technician –

6

5 Disconnect the two connectors.



Remove the four Phillips pan head screws (with flat and spring washers) (M3 x 6), replace the regulator with a new one, and install the new one by following the removal procedure in reverse.



(8) Replacing the LED Filter PC Board



- In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.
- Replacement of the LED filter PC board involves standing at an elevated height. Prepare an appropriate stepladder or footstool and have two or more people perform the work. Working in an unnatural body posture may result in injury or machine damage.
 - PC boards are vulnerable to static electricity. If a person handles a PC board while charged with static electricity, the parts on the PC board may be damaged.
 Before handling a PC board, discharge the static electricity from your body. (Example: touching the surface of grounded metal.)
 - 1 Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)
 - 2 Remove the console panel and rear cover. (See P-70 "8A-3-6 Installing the Rear Cover".)
 - 3 Remove the top cover. (See P-61 "8A-1-1 Removing the Top Cover".)
 - 4 Disconnect the four connectors.



Connector

Connector

- Must be performed by a technician -







NOTICE

To install, perform the procedure in reverse.

- When installing, check the connector orientations, connect the connectors firmly to each other, and lock them securely.
- When installing, take care not to allow the connectors and harnesses to get caught.

1

- Must be performed by a technician -

(9) Replacing the LED Module for the POP Display

- In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.
- Replacement of the LED module for the POP display involves standing at an elevated height. Prepare an appropriate stepladder or footstool and have two or more people perform the work. Working in an unnatural body posture may result in injury or machine damage.
 - PC boards are vulnerable to static electricity. If a person handles a PC board while charged with static electricity, the parts on the PC board may be damaged.
 Before handling a PC board, discharge the static electricity from your body. (Example: touching the surface of grounded metal.)
 - 1 Turn off the main power switch. (See P-30 "7-5-1 Turning the Power Switch On".)
 - 2 Remove the POP display. (See P-79 "8A-3-9 Installing the POP".)
 - 3 Separate the front assembly from the rear assembly, and then remove the POP bracket. (See P-64 "8A-3-2 Connecting the Front Assembly and Rear Assembly".)
 - 4 Remove the two Torx bolts (M5 x 12) and remove the roof grille.



Torx bolt (M5 x 12)

Test Mode

- Must be performed by a technician -

5 Disconnect the two connectors.





Remove the four Torx bolts (M5 x 12) and remove the roof duct.









To assemble, perform the procedure in reverse.

- Must be performed by a technician -

8B-6 Replacing and Adjusting the Projector Unit



- In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.
- Do not look into the lens while the projector unit is lit. The strong light emitted through the lens may cause vision impairment or other problems.
- Be sure to use the dedicated lamp unit for this machine when replacing the lamp unit. Using a lamp other than a dedicated lamp may result in malfunction, damage or injury. Also, do not reuse an old lamp unit because it may break.
- If operation is continued while accumulated dust remains inside the projector, a fire or malfunction may result. Be sure to clean the inside of the projector roughly once a year.
 The heat time to clean is before highly burned use the note in Fourier clean the statement of the projector.

The best time to clean is before highly humid weather sets in. For information about internal cleaning and related costs, contact your distributor.



To order a dedicated lamp, contact your distributor.

• Use a dedicated projector packing box when shipping the projector unit.

8B-6-1 Removing and Installing Each Part

(1) Replacing the Projector Unit



In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.

Turn off the main power switch. (See P-88 "8A-8 Turning the Power Switch On".)

Referring to P-75 "8A-3-8 Installing the Projector Unit", remove the projector unit by following the installation procedure in reverse.



1

2

4

To install, perform the procedure in reverse.

After installation, adjust the projector position. (See P-179 "8B-6-2 Adjusting the Projector Position".)

(2) Replacing the Projector Lamp (Lamp Unit)



- In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.
- Be sure to turn off the main power switch and wait one or more hours to allow the lamp unit to cool down sufficiently before replacing the lamp unit. The lamp unit will be very hot immediately after the main power switch is turned off, and may cause burns if touched.
- Never insert metal objects, flammable foreign objects, hands or other objects into the lamp unit enclosure after removing the lamp unit. Doing so may result in fire or electric shock.
- Be careful not to drop the lamp unit fixing screws inside the machine. Also, do not allow pieces of metal or flammable matter to enter the inside of the machine. Operating while foreign matter is inside the machine may result in electric shock or fire.
- Install the replacement lamp unit securely. Improper installation may result in dim images or fire.
- Never use anything other than a new dedicated lamp unit for this machine. Also, do not reuse an old lamp unit. Doing so may result in malfunction, damage or injury. To order a lamp unit, contact your distributor.
- Do not place the removed lamp unit on or near flammable matter. Doing so may result in fire.
- Do not leave the removed lamp unit where other people may touch it. Otherwise, they may be burned or injured by glass shards if the lamp unit is dropped or damaged.
- The lamp unit of this machine uses a tiny amount of mercury, which is an environmentally hazardous substance. Handle the used lamp unit carefully to avoid damaging it, and dispose of it properly as hazardous waste such as fluorescent lights. In addition, follow any applicable local municipal regulations or other ordinances when disposing of the lamp unit.
- If the lamp unit is damaged, a tiny amount of white gas (mercury) may be discharged. If you breathe this gas in or if it gets into your eyes or mouth, consult a doctor immediately.

- If the lamp bursts, be sure to contact your distributor regarding cleaning the interior of the projector, replacing the lamp unit, or other repairs.
- Depending on the lamp unit damage status, glass shards may have scattered inside the projector unit. Glass shards may drop off the projector unit, especially when it is removed from the machine. Therefore, take extra care when handling the projector unit. Should any glass shards fall onto the floor or seat, carefully and completely remove the glass shards using a vacuum cleaner or similar device.
- Do not remove any screws besides those that are necessary when replacing the lamp unit. Doing so may result in machine damage or malfunction.

- Must be performed by a technician -

4

Confirm the projector unit model and be sure to use a compatible lamp unit that is specified by BANDAI NAMCO Games Inc. Using other than the specified lamp unit may result in a projector malfunction. In addition, when requesting repair, be sure to indicate the projector unit model.

Projector unit	Lamp unit
NP-PE401H (V1)	Part number; 307-923

- Install the lamp cover correctly so that there are no gaps. Failure to install the cover correctly may result in malfunction such as the power not turning on or the lamp unit not lighting up.
- Be sure to use a new lamp unit when replacing the lamp unit.
- To request repairs or to order parts, contact your distributor.
- The lamp is made of glass, so be careful not to touch it with bare hands, subject it to strong impact, or scratch it. (Dirt, impact or scratches may cause the glass to break.)
- When replacing the lamp unit, be sure to remove the projector unit from the machine and place the unit on a flat work surface.

1 Turn off the main power switch. (See P-88 "8A-8 Turning the Power Switch On".)

2 Secure an area next to the machine cabinet on which to place the removed projector unit. Spread out a vinyl sheet or otherwise prepare a flat and sufficiently wide space (approx. 1 m square).

Remove the projector unit and place it in the area prepared in step **2**. (See P-75 "8A-3-8 Installing the Projector Unit".)











• Do not loosen any screws other than the lamp unit fixing screws.



- Gently remove the lamp unit from the projector unit.
- Do not expose the removed lamp unit to water or other substances, or place it near flammable objects or where other people may touch it. Doing so may result in burns or injury.

- Must be performed by a technician -

6 Hold a new lamp unit facing the direction as shown in the figure, fit the unit into the lamp enclosure while pressing it in the direction of the arrow, insert the terminals firmly, and secure it using the two fixing screws.



Install the lamp cover as before using the screws by following the procedures described in steps **3** and **4** in reverse.

7

 If the lamp cover is not installed correctly, the power will not turn on. Be sure to install the lamp cover securely.

8

Install the projector unit by following the removal procedure in reverse. (See P-75 "8A-3-8 Installing the Projector Unit".)

9

Turn on the main power switch and enter Test mode.

If the projector is not powered on and remains in a standby state, point the remote controller at the projector and keep pressing the HELP button for 10 seconds or more. The power will turn on temporarily. After ensuring that the projector unit lamp (which was lighting up red) has gone out, press the power button on the control panel of the projector unit or the power (ON) button on the remote controller to turn the projector on.



PROJECTOR TEST Check that		
LAMP TIME(H) REMAINING TEMPERATURE	value is 0.	
LAMP REPLACEMENT LOG LAMP TIME RESET FACTORY DEFAULT SET		
EXIT		
2066 hour(s) until the projector lamp is due for replacement.		
ENTER SW : ENTER		

PROJECTOR TEST screen

Set the Test switch to OFF to exit Test mode.

11

Test Mode

- Must be performed by a technician -

(3) Cleaning the Filter of the Projector Unit

If the filter becomes dusty, the air flow rate will be reduced and the internal temperature will rise. This leads to malfunctions. For this reason, be sure to clean the filter frequently.



2

Turn off the main power switch. (See P-88 "8A-8 Turning the Power Switch On".)

Referring to P-75 "8A-3-8 Installing the Projector Unit", remove the projector unit by following the installation procedure in reverse.



Use a vacuum cleaner to clean the filter from outside the air inlet. (The filter does not need to be removed.)





After cleaning the filter, install the projector unit by following the removal procedure in reverse. (See P-75 "8A-3-8 Installing the Projector Unit".)

(4)

- Must be performed by a technician -



Test Mode

- Must be performed by a technician -

(5) Replacing the Lens Cover

2

3

— 🖄 WARNING —

In order to avoid electric shock, accident or injury to yourself or others as well as damage to the electronic circuits, be sure to turn off the main power switch before starting this task.



Open the projector cover and remove the front lid. (See P-75 "8A-3-8 Installing the Projector Unit".)

Remove the four countersunk washer nuts (M4), then remove and replace the lens cover.





To install, perform the procedure in reverse.

- Must be performed by a technician -



– Must be performed by a technician –

4 Remove the two Phillips pan head screws (with flat and spring washers) (M4 x 50), and remove the fan and finger guard. G Fan Finger guard Phillips pan head screw (with a flat spring washer) (M4 x 50) 5 Install the fan unit so that air can flow upwards.

6

To install, perform the procedure in reverse.
– Must be performed by a technician –

8B-6-2 Adjusting the Projector Position

1

- Turn on the main power switch. (See P-88 "8A-8 Turning the Power Switch On".)
- 2 After the title screen appears, enter Test mode, select MONITOR TEST, and then select VIEW ANGLE AND FOCUS ADJUST PATTERN. (See P-44 "7-6-5 Screen Adjustment (MONITOR TEST)".)
- 3 Adjust the vertical and lateral positions and viewing angle of the projector as described on the following pages so that the white lines on the right and left edges of the VIEW ANGLE ADJUST PATTERN display screen are located at the edges of the dome screen as shown in the figure below.



Approximate adjustment method



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- Must be performed by a technician -

(1) Vertical Adjustment

1

4

Loosen the four flange socket bolts (M6 x 8) on the right and left sides of the projector assembly.



2 Loosen the countersunk washer nut (M6) and rotate the cap bolt (M6 x 55) to move the screen display up and down. Rotate clockwise to lower and counter-clockwise to raise the screen display.



3 Adjust the vertical position so that the white lines on the right and left edges of the VIEW ANGLE ADJUST PATTERN display screen are approximately parallel with the edges of the dome screen.

After finishing the adjustment, tighten the loosened screws by following the screw loosening order in reverse.

– Must be performed by a technician –

(2) Lateral Adjustment

1

- Loosen the four flange socket bolts (M6 x 12) on the right and left sides of the projector assembly and the flange socket bolt (M6 x 12) above the lens. Loosen each screw just enough so that the projector assembly can be moved.
 - Flange socket bolt (M6 x 12) (functions as the axis) (loosen only)

axis) (loosen only) Flange socket bolt (M6 x 12) (loosen only)



2

Move the rear of the projector assembly to the right and left around the axis of the loosened flange socket bolt (M6 x 12) above the lens. The screen display moves to the right and left accordingly.

Flange socket bolt (M6 x 12) * The projector assembly moves right and left around this screw, which acts as an axis.





Adjust the lateral position so that the white lines on the right and left edges of the VIEW ANGLE ADJUST PATTERN display screen are approximately the same distance from the edges of the dome screen.



After finishing the adjustment, tighten the loosened screws by following the screw loosening order in reverse.

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- Must be performed by a technician -

(3) Viewing Angle Adjustment

1

Loosen the four flange socket bolts (M6 x 8) on the right and left sides of the projector assembly.

Loosen each screw just enough so that the projector assembly can be moved.



2

Move the projector assembly forward and backward to move the edges of the screen display in and out.



Flange socket bolt (M6 x 8) (loosen only)

3

4

Adjust so that the white lines on the right and left edges of the VIEW ANGLE ADJUST PATTERN display screen are within the edges of the dome screen.

After finishing the adjustment, tighten the loosened screws by following the screw loosening order in reverse.

- Must be performed by a technician -

8B-6-3 Various Projector Settings

(1) Preparing the Remote Controller



Be sure to observe the following regarding the dry cell batteries of the remote controller. Failure to do so may cause the batteries to leak fluid or burst, possibly resulting in burns or injury.

- Do not use other than the specified batteries.
- Do not mix up the polarity indications (+ and -).
- Do not charge, heat, disassemble, short circuit or place the batteries in a fire.
- Do not leave dry cell batteries that are exhausted or past the recommended use date indicated on the batteries in the remote controller.
- Do not mix different types of dry cell batteries or use new and old batteries together.
- Should battery fluid adhere to equipment, do not touch the battery fluid directly. If you happen to touch the battery fluid, rinse thoroughly with water and consult a doctor.

Insert the dry cell batteries into the remote controller.

1 Remove the battery cover.

While pressing the battery cover, pull it toward you, and then lift up the cover to remove it.





Insert the dry cell batteries.

Confirm the polarities of the dry cell batteries and insert them according to the polarity indications on the inside of the case.





Close the battery cover.

To close the battery cover, slide the tab at the rear of the cover.



Test Mode

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- Must be performed by a technician -

(2) How to Operate the Remote Controller



 The remote controller may not operate when the remote control photosensor is directly exposed to bright light such as sunlight or fluorescent light.

- Do not drop or subject the remote controller to impact.
- Do not leave the remote controller in hot or humid locations.
- Do not expose the remote controller to water and do not place it on wet objects.
- Do not disassemble the remote controller.
- In rare cases, remote controller operations may not be accepted easily depending on the location of use or surrounding conditions. In such cases, point the remote controller directly at the projector unit and perform the operation again.

Remove the projector cover and front lid of the projector assembly (see P-75 "8A-3-8 Installing the Projector Unit"), and operate the remote controller while pointing it at the remote controller photosensor of the projector unit.



Remote controller effective operating range Angle: within approximately 30° in the vertical and horizontal directions Distance: within approximately 6 m

Remote control photosensor

- Must be performed by a technician -

(3) Projector Unit Control Panel and Remote Controller Part Names

For details, see the accompanying operation manual of the projector.

Projector unit control panel

Remote controller





Projector unit control panel

(1) Power button

Turns the power of the machine on/off (standby state).

When turning off the power (entering the standby state), pressing the button once displays the confirmation message on the screen. Press the button again.

(2) Power indicator

This indicator indicates the state of the projector power.

- · Goes out: Main power is off.
- · Blinking blue (at short intervals): In preparation for power on
- · Blinking blue (at long intervals): Off-timer (effective state)
- · Lights up blue: Power on state
- · Lights up orange: Standby state (standby mode is "Standard")
- · Lights up red: Standby state (standby mode is "Power-saving")
- (3) Status indicator
 - This indicator indicates the internal status of the projector.
 - · Goes out: No abnormality or standby state (standby mode is "Power-saving")
 - · Blinking red: Indicates an abnormality, corresponding to the blinking interval.
 - · Blinking green: In preparation for lighting the lamp again after failure to light.
 - · Lights up green: Standby state (standby mode is "Standard")
 - · Lights up orange: Control panel lock "ON" state

(4) Lamp indicator

- This indicator indicates the status of the projector lamp.
- · Goes out: No abnormality
- · Blinking red: Warning to replace the lamp
- \cdot Lights up red: Lamp usage period has been exceeded
- · Lights up green: In Eco mode

- Must be performed by a technician -

(5) (ECO) button

This button is used to display the Eco mode selection screen.

(6) (SOURCE) button

Each time this (SOURCE) button is pressed, the projector searches input signals of those in the following order: Computer \rightarrow HDMI1 \rightarrow HDMI2 \rightarrow Video \rightarrow S-Video \rightarrow and so on. If the projector detects any input signals, it projects that signal.

(7) (AUTO ADJ.) button

This button is used to automatically adjust the projector to the optimum conditions when it projects the PC screen.

(8) (MENU) button

This button is used to display various on-screen setting and adjustment menus.

(9) \blacktriangle , \blacktriangledown , \blacktriangleleft , and \blacktriangleright buttons

These buttons are used to select items from the menu or to adjust values. (See P-188 "8B-6-4 Onscreen Menu of the Projector".)

When no menu screen is displayed, you can use the \blacktriangleleft or \blacktriangleright button to adjust the volume and the \blacktriangle or \checkmark button to correct the vertical keystone distortion.

(10) (ENTER) button

While any menu is being displayed, if this button is pressed, the screen proceeds to the menu in the next layer. (See P-188 "8B-6-4 On-screen Menu of the Projector".) Pressing this button while any confirmation message is being displayed accepts the item.

(11) (EXIT) button

While any menu is being displayed, if this button is pressed, the screen returns to the menu in the previous layer. When this button is pressed with the cursor placed on the main menu tab, the menu is closed.

When this button is pressed while any confirmation message is being displayed, the operation is canceled.

Remote Controller

(1) Remote control transmitter

Transmits remote controller signals by using infrared rays.

Operate the remote controller by pointing its transmitter at the remote controller photosensor of the projector unit.

(2) Power (ON) button

Use this button to turn on the power of the machine when it is in a standby state (with the power indicator lighting up red*). (* When the standby mode is set to "Power-saving")

(3) Power (OFF) button

Pressing this button once displays the power-off confirmation message. Pressing this button once more turns off the power of the machine. (The machine enters the standby state.)

(4) (COMPUTER 1) button

Use this button to select the computer input (or component).

(5) (COMPUTER 2/3) button

(Not used on this machine.)

(6) (COMPUTER 2/3) button

(Not used on this machine.)

(7) (AUTO ADJ.) button

This button is used to automatically adjust the projector to the optimum conditions when it projects the computer screen.

(8) (VIDEO) button

Use this button to select the video input.

(9) (S-VIDEO) button

Use this button to select the S-video input.

Test Mode

Troubleshooting

Use this button to select HDMI1 or HDMI2 input. Each time this button is pressed, the selection

(10) (HDMI) button

– Must be performed by a technician –

switches between HDMI1 input and HDMI2 input. (11) (NUM) button, number (0 - 9) input buttons, and (CLEAR) button Use these buttons to set the security keyword for the projector. (12) (FREEZE) button Use this button to show the image being displayed in the form of a still image on the screen. Pressing the button again returns the still image display to the original display. (13) (AV-MUTE) button Use this button to temporarily kill the image and sound. Pressing the button again returns the still image display to the original display. (14) (MENU) button This button is used to display various on-screen setting and adjustment menus. (See P-188 "8B-6-4 On-screen Menu of the Projector".) (15) (EXIT) button While any on-screen menu is being displayed, if this button is pressed, the screen returns to the menu in the previous layer. When this button is pressed with the cursor placed on the main menu tab, the menu is closed. When this button is pressed while any confirmation message is being displayed, the operation is canceled. (16) \blacktriangle , \blacktriangledown , \blacktriangleleft , and \triangleright buttons Use these buttons for on-screen menu operation and for the display position adjustment of the screen enlarged by using the (D-ZOOM +/-) button. When the mouse receiver (sold separately) is connected to the computer, these buttons act as a computer mouse. (17) (ENTER) button While any on-screen menu is being displayed, if this button is pressed, the screen proceeds to the menu in the next layer. When this button is pressed while any confirmation message is being displayed, the item is accepted. (18) (D-Z00M +/--) button This button is used to zoom the screen image in or out. (19) (MOUSE L-CLICK) button Use this button when the mouse receiver (sold separately) is connected to the computer. This button will function as the left-hand button of a mouse. (20) (MOUSE R-CLICK) button Use this button when the mouse receiver (sold separately) is connected to the computer. This button will function as the left-hand button of a mouse. (21) (PAGE) button Use this button when the mouse receiver (sold separately) is connected to the computer. This button serves to scroll the screen or to switch between slides on a PowerPoint presentation. (22) (ECO) button This button is used to display the Eco mode selection screen. (23) (KEYSTONE) button Use this button to display the keystone distortion correction screen. (24) (PICTURE) button Use this button to display the picture mode select screen provided in the IMAGE of the onscreen menu. (25) (VOL. +/-) button (Not used on this machine.) (26) (ASPECT) button Use this button to display the aspect adjustment items. (27) (HELP) button Use this button to display the information screen.

- Must be performed by a technician -

8B-6-4 On-screen Menu of the Projector



 Please note that in rare cases, the brightness may fluctuate due to the lamp characteristics.

- The lamp is a consumable part. When the lamp is used for a long time, the image may become dark or the lamp may burn out and no longer light up. This is due to the lamp characteristics, and is not a malfunction.
- The pixel engine used in the machine is manufactured using high-precision technology, but there may be pixels that do not light (dark pixels) or are constantly lit (bright pixels). This is not a malfunction.
- To reset to the factory default, execute PROJECTOR TEST (see P-42 "(d) PROJECTOR TEST" in Test mode.

The control buttons on the projector unit control panel and remote controller (see P-185 "(3) Projector Unit Control Panel and Remote Controller Part Names") allow you to display various menus on the screen and perform respective adjustments and settings.

*Changing the values of some items in the setting menus provided with the machine is restricted.

Setting method using the on-screen menus



Press the menu button.

The on-screen menu is displayed.

IMAGE	MAGE SCREEN SETTING		OPTIONS	
PICTURE MO	DE	VIDEO	-	
WALL COLOF		OFF		
BRIGHTNESS			50	
CONTRAST		1	45	
SHARPNESS		- 0	16	
SATURATION	1	- 1	50	
HUE			50	



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- Press \blacktriangle or \checkmark button to select a sub-menu. To accept the selected menu, press the (ENTER) button.
- When any rectangular adjustment bar such as "Volume" (sound level) is displayed, press the ◀ or ▶ button to adjust that item.

To cancel the on-screen menu

With the cursor located in the main menu tab, press the (EXIT) button.

- Menu screen operations may not be possible even when the button is pressed. In this case a malfunction may have occurred. Disconnect the power cord plug from the outlet, wait 10 minutes or more and then connect the power cord plug to the outlet again.
- Adjustments can be made using the on-screen menu when there is an external input signal.

- Must be performed by a technician -

Configuration of on-screen menu

For detailed setting values and other information, see the accompanying operation manual of the projector.

Main menu	Sub-menu	Configurable item
IMAGE	GENERAL (general)	PICTURE MODE (picture mode) WALL COLOR (wall color correction) BRIGHTNESS (brightness) CONTRAST (contrast) SHARPNESS (sharpness) SATURATION (saturation) HUE (hue)
(image adjustment)	ADVANCED (advanced)	GAMMA (gamma correction) BrilliantColor™ COLOR TEMP. (color temperature) DYNAMIC CONTRAST (dynamic contrast) COLOR (color) COLOR SPACE (color space)
SCREEN	GENERAL (general)	ASPECT RATIO (aspect) OVERSCAN (overscan) V KEYSTONE (vertical keystone correction)
(screen adjustment)	3D SETTING (3D setting)	3D 3D INVERT (3D inversion) 3D STRUCTURE (3D format)
	GENERAL (general)	LANGUAGE (language) ORIENTATION (projection method) REMOTE SENSOR (setting of the remote control photosensor) HDMI SETTINGS (HDMI settings) MUTE (mute) VOLUME (volume)
SETTING (installation)	SIGNAL (signal)	PHASE (phase) CLOCK (clock frequency) H. POSITION (horizontal position) V. POSITION (vertical position)
	ADVANCED (advanced)	LOGO (logo) PC CONTROL MODE (PC control mode) NETWORK (network) CLOSED CAPTION (closed caption) SECURITY (security)

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- Must be performed by a technician -

Main menu	Sub-menu	Configurable item
	GENERAL (general)	INPUT SEARCH (automatic input switching) INPUT (terminal) FAN MODE (fan mode) INFORMATION HIDE (On-screen display is off) BACKGROUND COLOR (background color) RESET (reset)
OPTIONS (options)	LAMP/FILTER SETTINGS (lamp/filter settings)	LAMP LIFE REMAINING (remaining lamp life)* LAMP HOURS USED (used hours of the lamp)* FILTER HOURS USED (used hours of the filter)* ECO MODE (Eco mode) FILTER LIFE REMINDER (lamp message) FILTER USAGE HOURS (filter cleaning hours) CLEAR LAMP HOURS (Clears the lamp usage time) CLEAR FILTER HOURS (Clears the filter usage time)
	INFORMATION (information)	MODEL NO.* SERIAL NUMBER* SOURCE (input terminal)* RESOLUTION (resolution)* SOFTWARE VERSION (software version)*
	ADVANCED (advanced)	STANDBY MODE (standby mode) DIRECT POWER ON (direct power on) AUTO POWER OFF (MIN.) (auto power off (minute)) OFF TIMER (MIN.) (off-timer (minute)) CONTROL PANEL LOCK (key lock of the main unit)

*: Only for display (Not allowed to change)

9. Disposal

WARNING

- When disposing of the machine, follow the applicable regulations for collection, transportation and disposal.
- When entrusting the collection, transportation and disposal of the machine to someone else, be sure to entrust the work to specialists in each field.
- The projector lamp used in this machine contains inorganic mercury, which is hazardous to the human body and the environment. When disposing of used lamps, follow the applicable regulations for collection, transportation and disposal.

* The software used in this machine is protected by copyright laws. It is prohibited to copy, adapt, distribute publicly, or use the software for purposes other than the operation of this machine. Infringement of copyright laws may be subject to criminal penalties.

Do not use the recording media containing the software in a machine other than the specified game machine. Doing so may result in mechanical malfunction.

10. Parts List

10-1 Overall







Power cord for Asian model is not available as service part.

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No.	Name	Quantity	Type and rating	Part No.	
1	Side joint (L)	1		717-910	
2	Side joint (R)	1		717-911	
3	Side cover (L) SW	1		737-170	
4	Side cover (R) SW	1		737-171	
5	Lower side cover (L) SW	1		737-172	
6	Lower side cover (R) SW	1		737-173	
7	Cover joint	1		717-916	
8	Caution sticker Finger pinching POD (EXP)	1		461-627	
9	Operation Manual	1	This manual	737-163	
100	Power cord III		3m U.S. model	011 164	
TUa		- 1	BIZ-UL-AC15A125V-3000	011-104	
10b	Dower cord PSI		3m European model	011 105	
dui	Power cord BSI		BIZ-BSI-AC10A250V-3000	011-165	
11	Side logo decal	2		737-174	



No.	Name	Quantity	Type and rating	Part No.
1	Front base	1		737-180
2	Lever stay base L	1		737-181
3	Lever stay base R	1		737-182
4	Lever stay cover L	1		737-183
5	Lever stay cover R	1		737-184
6	ES3 base	1		737-185
7	Across beam	1		737-186
8	Dome frame	1		737-187
9	Maintenance door	1		737-188
10	Back panel	1		737-189
11	Flange cover C	1		737-190
12	Flange cover L	1		737-191
13	Flange cover R	1		737-192
14	Floor plate	1		737-193
15	Frame cover	1		737-194
16	Fan bracket	1		737-195
17	Maintenance panel L	1		737-196
18	Maintenance panel R	1		737-197
19	Speaker bracket	3		737-198



No.	Name	Quantity	Type and rating	Part No.
20	Baffle board	3		737-199
21	ES3 back bracket	1		737-200
22	ES3 duct	1		737-201
23	Key plate	1		737-202
24	Lever base L	1		737-203
25	Lever base R	1		737-204
26	Camera bracket	1		737-205
27	Camera cover	1		737-206
28	Camera box cover	1		737-207
29	ES3 front bracket	1		737-208
30	Oval dome	1		717-930
31	Lever side CV (L) SW	1		737-209
32	Lever side CV (R) SW	1		737-210
33	Front rope hook L	1		717-977
34	Front rope hook R	1		717-982
35	Coner guard	1		717-986
36	Base joint SW	1		737-211
37	Cord cover	1		737-212
38	Camera lens cover	1		737-297
39	Caster (swivel type)	4		102-199
40	Adjustment bolt	4		102-045
41	Anti-vibration rubber	4		106-181
42	Coin lock	1	F750-DS8 random number	101-175

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		10. Parts List

No.	Name	Quantity	Type and rating	Part No.
43	Fork sticker	2		461-678
44	Warning sticker Service (B) (EXP)	3		461-677
45	Gap rubber S	1	420mm	106-184
46	Gap rubber L	1	580mm	106-185
47	Control bese decal A	1		737-214
48	Control bese decal B	1		737-215
49	Control lever decal	1		737-216
50	Point cover L	1		729-161
51	Point cover R	1		729-162
52	Warning sticker high temperature B	1		461-816
53	USB cable (between game PC board and USB camera)	1	2300mm	011-098
54	USB cable (between game PC board and NA-JV(S) PC borad)	1	850mm	011-183
55	LAN cable (between game PC borad and Strait PC borad)	1	2000mm	011-099
56	Audio cable (between game PC borad and 5.1CH AMP PC borad)	1	850mm	011-182
57	HDMI-DVI cable (between game PC borad and projector)	1	4500mm	011-184
58	RS232C cable	1	4500mm	011-185
59	DC axial-flow fan motor	1		005-493
60	Fan guard	1		005-413
61	USB camera	1		307-830
62	Transformer	1		004-770
63	Speaker	3		006-181
64	OC-protector PC borad	1		307-999

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10-3 Rear Assembly



No.	Name	Quantity	Type and rating	Part No.
1	Rear base	1		737-241
2	Seat base hatch	1		737-242
3	Back frame L	1		737-243
4	Back frame R	1		737-244
5	Top frame	1		737-245
6	Side hook L	1		737-246
7	Side hook R	1		737-247
8	Top frame cover	1		737-248
9	Inner bracket L	1		737-249
10	Inner bracket R	1		737-250
11	Roof duct	1		737-251
12	Roof grill	1		737-252
13	Lamp box	1		737-253
14	Lamp cover	1		737-254
15	Back cover	1		737-255
16	Back cover U	1		737-256
17	Regulator cover	1		737-257
18	Harness cover	1		737-258
19	Window bracket	1		737-259
20	Catch base	1		737-260
21	POP bracket	1		737-261
22	LED holder	16		737-262
23	Top cover base	1		737-263
24	LED bracket TR	1		737-264



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Knob bracket KT

Knob bracket KT cover

718-054 718-055 To Purchase This Item : Visit Our Website : www.bmigaming.com | Global Sales : + 561.391.7200 | USA / CA : 1.800.746.2255 10. Parts List



No.	Name	Quantity	Type and rating	Part No.
49	Door (SW)	1		737-273
50	Rear window (SW)	1		737-274
51	Door hinge	1		718-060
52	Door receiver	1		718-062
53	Cover bracket KT	2		718-069
54	Raer joint flame	1		718-070
55	Rear rope hook	2		718-078
56	Interior cover (L)	1		737-275
57	Stay cover	1		718-091
58	Stay cover W	1		718-092
59	Door cushion	1		722-392
60	Coin door	1		729-117
61	Coin door hinge	1		729-123
62	Stopper plate C	1		729-125
63	Cable case	1		737-276
64	Rear joint	1		737-277
65	Lock bar (C)	1		737-333
66	Interior cover (R)	1		737-278
67	Cash box (K)	1		461-040
68	Fork sticker	2		461-678
69	Caution sticker Capacity limit POD (EXP)	1		461-620
70	Caster (swivel type)	4		102-199
71	Caster (fixed)	2		102-201
72	Adjustment bolt	4		102-045
73	Cam lock	1		101-142
74	Magnet catch	1		101-209
75	Damper	1		106-251
76	Flange bush	2		104-025
77	Square pipe pulg	4		102-203
78	Console panel	1		737-279
79	Cover support	2		737-280

No.	Name	Quantity	Type and rating	Part No.
80	Damper stopper	1		737-281
81	Interior cover decal L	1		737-282
82	Interior cover decal R	1		737-283
83	Symbol mark decal L	1		737-284
84	Symbol mark decal R	1		737-285
85	Open decal	1		737-286
86	Sub title panel	1		737-288
87	Side panel (L)	1		737-289
88	Side panel (R)	1		737-328
89	Button (white)	6		737-329
90	Button (red)	7		737-330
91	Button (blue)	7		737-331
92	Button (black)	8		737-332
93	LED filter PC board	1		307-996
94	LED bar module	4	white, 600mm	002-731
95	LED bar module	1	white, 500mm	002-730
96	LED tape module	2	full color, 400mm	002-726
97	LED tape module	2	full color, 650mm	002-727
98	LED tape module	1	full color, 300mm	002-728
99	LED bar module	3	white, 100mm	002-729
100	Fan	1		005-558
101	Fan guard	1		005-413
102	Regulator	1		009-270
103	POP bracket (L)	1		737-334
104	POP bracket (R)	1		737-335
105	POP board (EXP)	1		737-169
106	Coin counter	1	Asian model	003-055

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10-4 Power Supply Assembly



No.	Name	Quantity	Type and rating	Part No.
1	Power supply base	1		737-220
2	Switching regulator (5V)	1	VS15C-5	009-112
3	Switching regulator (12V)	1	VS100E-12	009-270
4	Switching regulator (24V)	1	VS50E-24	009-265



No.	Name	Quantity	Type and rating	Part No.
1	Cord box	1		737-221
2	Fuse sticker	1	110 V / 120 V	734-323
3	Fuse sticker (C)	1	220 V / 230 V	735-126
4	Fuse caution label	1		736-980
5	Straight PC board	1		307-308
6	Slow-blow fuse (T10A 250V)	1		001-108
7	Slow-blow fuse (T5A 250V)	1		001-111
8	Noise filter	1	RPE-2010R	011-103
9	Fuse holder	1		001-112
10	Fuse holder cap	1		001-113
11	Power switch	1	A8A-207-1D	000-906

10-6 Service Plate Assembly



(DOOR)





(4)

(PANEL)

No.	Name	Quantity	Type and rating	Part No.
1	Service door	1		737-225
2	Service panel	1		737-226
3	Service sticker	1		734-228
4	Key plate	1		737-202
5	Coin lock	1	F750-DS8 random number	101-175
6	Push button (red) <service></service>	1	SDP-103C-22RB	000-336
7	Push button (green) <enter></enter>	1	SDP-103C-22GB	000-619
8	Slide switch <test></test>	1	SDS-103A-03#13BJ	000-681
9	Rocker switch <reset switch=""></reset>	1	A8A-207-1D	307-308
10	Toggle switch <select></select>	1	SDSA-331G-CR	000-337
11	Door switch	1	D3D-111	000-615





No.	Name	Quantity	Type and rating	Part No.
1	Cover fixing frame	1		306-829
2	Rubber cover	1		737-319
3	Installation plate	1		306-824
4	Analog interface (with analog interface bracket)	2		008-079
5	Spring stopper	1		737-316
6	Spring	1		307-849
7	Spring end	1		737-317
8	Grip harness	1		307-850
9	Control lever grip A (SW)	1	L and D make a sat	707 000
10	Control lever grip B (SW)	1	L allu n Illake a Set	131-320
11	Motor cover (SW)	1		737-324
12	Machine gun button	1		306-780
13	Machine gun button spacer	1		737-321
14	Machine gun button spring	1		306-781
15	Switch (For Machine gun button and Missile button)	1		307-853
16	Missile button	1		306-779
17	Missile button spring	1		306-782
18	Lever metal part A	1		307-856
19	Lever metal part B	1		307-857
20	Motor bracket	1		737-323
21	Vibration motor	1		737-322
22	Ferrite core	1		307-860

No.	Name	Quantity	Type and rating	Part No.
23	Core spacer M (SW)	1		737-325
24	Clamp bracket	1		307-862
25	Clamp (large)	1		307-863
26	Clamp (small)	2		307-864
27	Lever harness	1		307-865
28	Lever sub-assembly	1		737-326
29	Guide plate	1		306-812
30	Metal plate	1		306-823









(14) (No (13) decal)

No.	Name	Quantity	Type and rating	Part No.
1	Side base L	1		737-230
2	Side base R	1		737-231
3	Lever shaft	1		737-232
4	Base plate	1		737-233
5	Spring stopper	1		734-250
6	Spring	1		734-251
7	Vol bracket	1		734-252
8	Finger guard	1		734-253
9	Stopper	1		734-254
10	Spring washer	1		734-255
11	Throttle lever grip A	1	L and P make a set	707 006
12	Throttle lever grip B	1	L allu n Illake a Set	131-230
13	Throttle bese decal (EXP)	1		737-237
14	Throttle lever assembly <no decal=""></no>	1		737-235
15	Analog interface	1	RVQ24YN04-06 20F B102	008-079
16	Illuminated push button switch	1		000-913

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2



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	Parts List

No.	Name	Quantity	Type and rating	Part No.
1	Front rack base	1		737-240
2	S5.1CH AMP PC board	1		307-997
3	NA-JV(S) PC board	1		307-423

3



No.	Name	Quantity	Type and rating	Part No.
1	Projector case 2	1		737-290
2	Projector hook (L)	1		734-298
3	Projector hook (R)	1		734-299
4	Adjustment tray 2	1		737-291
5	Lens cover	1		718-102
6	Front lid 2	1		737-292
7	Projector cover SW	1		737-293
8	Projector hanger 2	1		737-294
9	Key hook	1		718-111
10	Lock washer	1		718-112
11	Filter tray S	1		737-295
12	Filter S	1		737-296
13	Warning sticker Service B (EXP)	1		461-539
14	Caution sticker Projector (EXP)	1		461-621
15	Caution sticker Watch your head POD (S) EXP	1		461-821
16	Anti-vibration rubber	6		106-166
17	Coin lock	1	F750-DS8 random number	101-175
18	Fan	1		005-558
19	Fan guard	1		005-413
20	Projector assembly (With a fish-eye lens)	1		307-922
21	Replacement lamp for the projector	1		307-923



No.	Name	Quantity	Type and rating	Part No.
1	Seat adaptor	1		737-300
2	Seat floor	1		737-301
3	Seat cushion SW	1		737-302
4	Seat back	1		737-303
5	Seat pipe (L)	1		734-303
6	Seat pipe (R)	1		734-304
7	Seat speaker cover	2		710-962
8	Speaker	2		006-181
9	Woofer	1		006-184

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10-13 Coin Assembly

10-13-1 Coin Assembly (U.S. model)



No.	Name	Quantity	Type and rating	Part No.
1	Coin box	1		737-305
2	Bill validator box	1		737-327
3	Guard panel	1		737-307
4	Bill validator door B	1		737-312
5	Bill validator hinge B	1		737-313
6	Stopper plate (B)	1		735-114
7	Lock bar (B) B	1		737-314
8	Fuse holder bracket (NAI)	1		735-116
9	Cover panel (N) B	1		737-311
10	Coin counter label	1		735-118
11	Fuse sticker (B)	1		735-120
12	Fuse caution label	1		736-980
13	Cam lock	1		101-142
14	Small door assembly	1	40-0055-12W (2slot , no mech)	100-482
15	Slow-blow fuse (T6.3A 250V)	1		001-114
16	Fuse holder	1		001-112
17	Fuse holder cap	1		001-113
18	Coin counter	2		003-055
19	Warning sticker coin mech	1		461-822
20	Bill validator door cover	1		737-315
21	Coin mech label	1		737-336







No.	Name	Quantity	Type and rating	Part No.
1	Coin box	1		737-305
2	Hole cover	1		737-306
3	Guard panel	1		737-308
4	Cover panel (N) B	1		737-311
5	Fuse holder bracket (NEL)	1		735-127
6	Fuse sticker (D)	1		735-128
7	Small door & Frame assembly	1	40-0731-12W (no mech)	100-483
8	Warning sticker coin mech	1		461-822
9	Fast Acting fuse (2A 250V)	1		001-115
10	Fuse holder	1		001-112
11	Fuse holder cap	1		001-113
12	Coin counter	1		003-055
13	Coin mech label	1		737-336









No.	Name	Quantity	Type and rating	Part No.
1	Coin box	1		737-305
2	Hole cover	1		737-306
3	JP coin sim	2		737-307
4	Guard panel	1		737-308
5	Fuse holder bracket (JPN)	1		737-309
6	Stopper plate	1		737-310
7	Cover panel (N) B	1		737-311
8	Coin door assembly	1	NAD-S1	100-481
9	Coin lock	1	F750-DS8 random number	101-175

11. Wiring Diagram

11-1 Overall Connection Diagram (U.S. model, 120 VAC)



(1/3)

11. Wiring Diagram





(2/3)




11-2 Overall Connection Diagram (European model, 230 VAC)





(1/3)





(2/3)





11-3 Overall Connection Diagram (Asian model, 110 to 120 VAC, 220 to 240 VAC)





(1/3)





(2/3)





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pcre

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