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- In order to use this product safely and properly, read this manual before use. Make sure you thoroughly understand the descriptions.

- After reading this manual, store it in a handy location for future reference.
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MagicGate est une marque commerciale de Sony Corporation.
Thank you for purchasing our "Battle Gear 3" game machine. It is intended to be installed in a game arcade shop.

This manual includes handling methods and cautions for using the "Battle Gear 3" machine correctly. Read it carefully and keep it in safe place so that it can be referenced by others anytime. If you should lose this manual, contact our dealers to obtain anew one.

Place to be contacted:
To request repairs and parts, contact the dealer you purchased your machine from.
In this manual, the following types of terms and conditions are used to alert you to safety issues. Before using the machine, make sure to read thoroughly and follow all of the precautions.

**Employees who operate and maintain an amusement site or shop under the supervision of the owners of the game machine.**

**Employees who are experienced in maintaining arcade game machines, those who regularly install, assemble and perform maintenance checks on games, and those who replace parts and consumable items under supervision of the game owners or the shop management staff.**

**People who work for arcade game machine manufacturers and are who are responsible for the design, inspection, and maintenance of arcade game machines, or those people who have a knowledge of electrical, electronic, and mechanical engineering that is equivalent to that of an engineering school graduate, and who regularly maintain and repair arcade game machines.**

**People who play games at facilities and shops where arcade game machines are installed.**

**Onlookers at facilities and shops where arcade game machines are installed.**

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

**WARNING**

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

**CAUTION**

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

**IMPORTANT**

Contains notes that affect the working or operation of the machine. Informs of situations that may occur when working with this machine.
Important safety information

⚠️  ⚠️  ⚠️  ⚠️

If you use a damaged cord you may receive an electrical shock or cause a fire.
- When handling the power cord, make sure to observe the following:
  - Do not modify the power cord.
  - Do not rest any object on top of the power cord.
  - Do not bend or pull the cord hard.

It may cause overheating which can lead to a fire.

Incorrect handling of the power plug may cause a fire.
- Observe the following guidelines when handling the power cord.
  - Do not plug in the power cord while anything is stuck to the plug.
  - Insert the plug firmly and push it all the way in.

You may receive an electrical shock or cause a fire.
- Turn OFF the power switch and pull the plug out of the outlet. Then contact the dealer where you purchased the machine or call our Technical Service Dept.

This game machine is not equipped with a fire or smoke detector. Be careful not to allow cigarettes or other sources of high heat to come in contact with the machine.
Important safety information

Important precautions are described on warning stickers for safety. Observe the following points.

- Take care about illumination, dirt, damage, etc., so that warning stickers adhered to the machine can be read sufficiently. Also, take care so that warning stickers are not obscured by any housing, etc.
- If any warning sticker is especially dirty or damaged, replace it with a new one.
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<table>
<thead>
<tr>
<th>Part</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fabricated body of cabinet</td>
<td>1,820 (W) × 1,580(D) × 1,785 (H) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 417 kg</td>
</tr>
<tr>
<td>Video cabinet assy</td>
<td>Approx. 325 kg</td>
</tr>
<tr>
<td>Seat cabinet assy</td>
<td>Approx. 46 kg</td>
</tr>
<tr>
<td>Power (3-phase)</td>
<td>355 W</td>
</tr>
<tr>
<td>Current</td>
<td>6.6 A</td>
</tr>
</tbody>
</table>
### 製品概要

<table>
<thead>
<tr>
<th>部品名</th>
<th>品番</th>
<th>数量</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC CORD AC 250V 10A</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>FUSE 8A 250V</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>SMALL FUSE 5A 125V</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>SEAT JOINT-A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEMUTH BOLT-W-M8x20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUB-(10BASE-T 5PORT RJ45)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
If any of the various service keys are lost, contact our Technical Service Dept.

- It is the key of a rejector door.

- It is the key of a vendor door.
1 Turn OFF the power switch.

2 Pull the power plugs from a power outlet and remove the power cord from the cabinets.

3 Disconnect the LAN cables from the hubs that connect to other cabinet or are connected from other cabinets.

4 Separate the seat cabinet assembly from the video cabinet assembly. Follow reverse procedures of 【Connecting seat cabinet assembly.】 [Connection of the seat cabinet -> See page 21]
5 Before moving the seat cabinet assembly and/or the video cabinet assembly, raise all the height adjusters (two for the seat cabinet assembly and four for the video cabinet assembly) as high as they will go using a crescent wrench or the like.

Hold the video cabinet assembly or the seat cabinet assembly and push or pull at normal walking speed.
1. Separate the video cabinet assembly from the seat cabinet assembly referring to [1-1. Moving cabinets.] [Moving cabinets -> See page 11]

2. Raise the four adjusters of the video cabinet using a crescent wrench or the like.

3. Insert forklift forks from back of the video cabinet assembly. Adjust distance between the two forks so that they align to the sticker positions that are indicated as 【forklift insert here.】
If you cannot transport the cabinet using the casters beneath the video cabinet, hold the bottom face to lift it. When lifting, never hold the control panel, as it may break.

If you cannot transport the cabinet using the casters beneath the seat cabinet, hold the bottom face to lift it with two or more persons. The total weight of the seat cabinet assembly is 46 kg.
Prepare for re-transportation referring to the description for re-transportation.
[Re-transportation method -> See page 17]

Move the cabinets to a location next to a truck to transport.
[Move cabinet (on a floor) -> See page 11]

Load cabinets on a truck bed and lower all the height adjusters to secure them.

Lower the adjusters (four positions) so that the casters go up 3 mm from the floor.
4 When putting ropes on cabinets that are on a truck bed, use two hitching rings as shown in the figure below. When ropes may contact cabinet surfaces, put a soft materials between them such as cardboard.
When re-transporting the Battle Gear 3 machine, follow the steps below. Make sure to attach the accessories and instruction manuals.

1. Turn OFF the power switch of the cabinet and pull the power cord out.

2. Separate the seat cabinet assembly from the video cabinet assembly. Follow the reverse procedures of [Connecting the seat cabinet assembly.][Connecting the seat cabinet assembly -> See page 21.]

3. Return the instruction manuals and accessories to their original positions.

4. Check that all the locks are locked.

5. When moving any cabinet, make sure to raise all the height adjusters as high as they will go.
- Install indoors only.
- Ambient temperature shall be 0 to 40°C.
- Relative humidity shall be between 10 to 70% and without dew.

*A hazardous location for fire prevention or in front of fire fighting equipment.
- A location where it is possible to have dew, due to rain drops, water leakage or high humidity.
- Near an indoor swimming pool or shower.
- A location where it is exposed to direct sunlight.
- A location where it is directly exposed to heat, such as near heating equipment or strong hot air blowing.
- Near highly flammable or volatile chemicals, or a hazardous object.
- On a tilted floor (more than 23 angle)
- Where it will receive much vibration.
- In a very dusty location.
- In a location where marginal space cannot be secured.
• Secure a riding space of 300 mm or more next to the right seat. The back of the cabinet has a power cord and LAN cable. Secure a space of 100 mm or more at the back.

• Secure 140 mm or more between two cabinets and secure a riding space of 300 mm or more next to the rightmost seat. The back of the cabinet has a power cord and LAN cable. Secure 100 mm or more of space at the back.

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>External dimensions</td>
<td>1,820 (side width) x 915 (depth) x 1,785 (height) mm</td>
</tr>
<tr>
<td>Total weight</td>
<td>Approximately 325 kg</td>
</tr>
</tbody>
</table>

At delivery, the machine is separated into components. To carry in all of the components, the following opening is required at the entrance.

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>External dimensions</td>
<td>710 (side width) x 860 (depth) x 1220 (height) mm</td>
</tr>
<tr>
<td>Total weight</td>
<td>Approximately 46 kg</td>
</tr>
</tbody>
</table>
Transport the video cabinet assembly to a location to install.

1. Adjust the four height adjusters using a wrench, so that the casters appear 3 mm from the floor by visual check.
Affix the console sticker sheets that come with the machine at the position shown below. Affix this sheet to both seats. Prepare a solution of water and neutral detergent at a ratio of 9:1 and spray on your hands, the sticker and the positions to affix, spreading evenly by using spray equipment. Affix the sticker and remove air between the sticker and console body, using a spatula while adjusting its position.

Bring the seat cabinet assembly close to the video cabinet assembly and connect the T connector.
3 Secure the seat cabinet using two seat joints A.
8 (Semuth bolts (W): M8 x 20)

When connecting these cabinets, do not catch the harness between the seat cabinet assembly and video cabinet assembly.

4 Turn the two height adjusters of the seat cabinet using a wrench, so that the casters appear 3 mm or so from the floor by visual check.

5 Connect the other seat cabinet with the same procedures.
1. Assemble the pop that comes as an accessory of the machine. Affix the pop on the video cabinet assembly.

2. Take out the accessory power cord from the cash box.

3. Connect the power cord to the switch box that is at the back of the video cabinet.
This machine does not use a HUB.

Wiring method to operate only one machine using one HUB (accessory).

Wiring method to operate two machines using one HUB (accessory).
In order for the two machines to communicate simultaneously, you must set the “LAN ID NUMBER” item in the configuration. Without this setting, simultaneous communication play (with up to four players) cannot take place.

The LAN ID NUMBER (hereafter simply called the ID number) must be properly set for the communication play. Each of the ID numbers from 1 to 4 should be assigned to its own seat. For four player simultaneous play, **ID numbers 3 and 4 need to be assigned to two of the seats**. If the same number is assigned to two seats, communication play cannot take place. (ID numbers 1 and 2 have already been assigned to the seats on all machines when they are delivered.)
1. Remove the rear door B. [Three Semuth screws (W): M5 x 12]

2. Take the HUB and AC adapter (accessories) out from a package.

3. Insert the AC adapter into the power outlet inside the HUB box.
4. Insert the DC plug of the AC adapter to the DC jack.

5. Slide the HUB select switch to the [PC] position.

6. Put the two LAN cables in the cabinet through the hole on the HUB box and pull them out to the outside.
7 Connect these two cables to Port 1 and Port 2 on the HUB. Either of Port 1 or Port 2 is OK.

8 Retract the HUB into the HUB box.

9 Install rear door B. [Three Semuth screws (W): M5 x 12.]

10 With this, the connection work is complete.
Work for the both machines

1. Remove rear door B. [Three Semuth screws (W): M5 x 12]

2. Take the HUB and AC adapter (accessories) from a package.

3. Insert the AC adapter to the power outlet inside the HUB box.

Work on machine A

Work on machine A

Connect to the power outlet inside the HUB box.
Work on machine A

4 Insert the DC plug of the AC adapter to the DC jack.

Work on machine A

5 Slide the HUB select switch to the [PC] position.

Work on machine A

6 Put the two LAN cables in the cabinet through the hole on the HUB box and pull them out.
7 Connect these two cables to Port 1 and Port 2 on the HUB. Either of Port 1 and Port 2 is OK.

8 Put the two LAN cables of machine B through the hole of the HUB box, and connect them to machine A. * Do not use the HUB that comes with machine B.
Work on machine A

9 Connect the two LAN cables from machine B to Port 3 and Port 4 of the HUB. Either of Port 3 or Port 4 is OK.

Insert the two LAN cables to Port 3 and Port 4.

Work on machine A

10 Retract the HUB inside the HUB box.

Work for the both machines

11 Install rear door B for both machine A and B. [Three Semuth screws (W): M5 x 12]

12 With this, connection work is complete.
Work for the both machines

1. Remove the rear door B. [Three Semuth screws (W): M5 x 12]

Work for the both machines

2. Take the HUB and AC adapter (accessories) from a package.
Work for the both machines
3 Insert the AC adapter to the power outlet inside the HUB box.

Work for the both machines
4 Insert the DC plug of the AC adapter to the DC jack.

Work on machine A
5 Slide the HUB select switch to the [HUB] position.
Work on machine A

6 Put the two LAN cables in the cabinet through the hole on the HUB box and pull them outside.

Work on machine A

7 Connect these two cables to Port 1 and Port 2 on the HUB. Either of Port 2 and Port 3 is OK.

Make sure the LAN cables are securely connected to the HUB.
Slide the select switch on the HUB for machine B to the [PC] position.

Put the two LAN cables of machine B through the hole of the HUB box.
10 Connect the two LAN cables from machine B to Port 2 and Port 3 of the HUB. Either of Port 2 or Port 3 is OK.

Insert the two LAN cables to Port 2 and Port 3.

11 Connect the LAN cable (straight) you purchased to the HUB Port 1 for machine B and lay the cable to machine A.

Insert the LAN cable to Port 1.

Work on machine B

Make sure the LAN cables are securely connected to the HUB.

Make sure the LAN cables are securely connected to the HUB.
12 Connect the LAN cable from machine B to Port 5.

13 Retract the HUB inside the HUB box.

14 Install rear door B for both machine A and B. [Three Semuth screws (W): M5 x 12]

15 With this, connection work is complete.
Check that the HUB and the router in the machine are connected to the LAN cable.
Check that the router power switch is turned ON.

1. Check the operation status:
   a. Network check
   b. Steering wheel test
   c. Demonstration screen
   d. Check lighting of the online lamp

2. Check the online status.
1 Turn ON the power switch located at the lower right on the back of the machine. When using two machines with communication, turn ON the power switches of both machines.

2 After turning ON the power, a black screen will continue for a while.

a. Network check screen
After the line is connected, a [True] message appears on the [Other Machine Connection] line.

Check the connection status between the HUB and router.

Shows other seats whose connections are currently being checked.

When two machines are connected, No. 3 and No. 4 are displayed.
3 The steering automatically turns left and right and adjusts the position.

During the steering wheel test, do not touch the steering wheel. Otherwise, the position may deviate.

4 The monitor changes with the following orders: [Notice screen] -> [TAITO signature screen] -> demonstration screen.

See the item that was displayed on the monitor, and investigate the cause. After checking, re-input the power.

The HUB may have a problem.

HUB trouble

- The HUB is not connected to the machine.
- The AC adapter of the HUB is disconnected.
- Faulty connection or disconnection of the cable that connects the HUB and machine.
- Faulty setting of the select switch on the HUB.
Open the rejecter door and press the test switches on both seats. When two machines are connected, start up the test mode for all four seats.

1

Select the [ADJUSTMENT] using the shift lever, and press the start button.

2

Press your foot down on the accelerator pedal to the end and press the start button.

1
2 Release the accelerator pedal and press the start button.

3 Press your foot down on the brake pedal to the full and press the start button.

4 Release the brake pedal and press the start button.

5 Store the adjusted data. Select [YES] using the shift lever and press the start button.
A player selects a car (from 32 models of six manufacturers) and course (from a total of seven courses).
When a player clears each checkpoint within the specified time and reaches the goal, the game will be cleared. A player competes for time and rank. When the remaining time becomes zero, the game will be over.

1. Insert a coin; the introduction screen appears.

2. Press the start button, the car select screen appears.

   ![Select Car Screen]

   1) Select the manufacturer
   2) Select the car model and color
   3) Select the transmission type

3. Select the mode from time attack, normal race and one makeup race.
   ※ A one makeup race is displayed while pushing the hazard button according to the normal race by the mode selection.

4. Select the course from a total of seven courses.
   After selecting the course, the game will start.
Select the communication match function and press the start button; the headlight flashes (passing). By passing, the screen becomes brighter. This also occurs on the screen of the opponent.

1) LECTION MATCH FUNCTION
When the game starts with communication match, the mode select screen shows ‘battle mode,’ not ‘time attack.’

Match races between entry key holders and non-holders are possible. As this mode does not have communication correction (real battle) function, each car offers each model’s performance.

2) UP TO FOUR CARS CAN BE RUN FOR A RACE
Up to four cars can be run for a race. If the number of players is less than four, the COM car runs instead. During the race, the cars are given communication correction. Therefore, even if there are differences of performance between car models, they can enjoy heated races by correcting each car’s performance to be evened.
While pressing the hazard button, turn the key to start; the machine cancels the communication match race between machines from the beginning. Even if you do not have an entry key, the machine functions as above. If the machine has not yet finalized the match race, you can cancel while starting up the machine, by pressing the hazard button.

On the course select screen, press the view change button to change the BGM tune. Music tune names are displayed at the lower left of the screen.

While in time attack, press the start button, the ghost cars will not be displayed. Only frames of the ghost cars disappear, and their shadows and lamp flares are displayed.

Keep pressing both the start button and hazard button at the same time; the machine starts counting to the forced end of the game. Keep pressing these buttons until the counter counts down to zero. Turning OFF the entry key brings the identical function.

For players who are familiar with a manual shift, press forward to shift up and pull toward you to shift down. On the mission selection, move the cursor to [MT] and press the view change button and determine. (From the BG3 garage of the paid contents, you can also reverse the manual transmission setting.)

While playing the game, a seat not played will lower its sound volume. Players can concentrate on the game without being disturbed by sounds from the empty seats.

While playing the game, a seat not played will lower its sound volume. Players can concentrate on the game without being disturbed by sounds from the empty seats.
The central control is located inside the rejecter door.

Add one coin by one press without increasing the count of the coin meter.

Change to the test mode.

Use when the screen has color shading.

One count for 100 yen.

One count for 100 yen.

One count for 100 yen.

One count for 100 yen.
1. Open the rejecter door, and press the test switch on the seat to test.

2. The test mode menu screen appears.

   **TEST MODE**
   
   Options:
   - Monitor test
   - Switch test
   - Adjustment
   - Sound test
   - Configuration
   - Factory reset
   - Ghost reset
   - HDD reset
   - Factory setting
   - Exit

   **Item Select**: Shift-SW
   **Decide**: Start-SW
   **Battle gear**: VX, XXX
   **XX X 2003 XX:XX:XX

   **Shift lever**: Move the cursor, and select YES or NO.
   **Start button**: Execute selected item.
   **View change and hazard buttons**: Change numeric figure and details.

---

1. On the menu screen, select EXIT and press the start button.
   The machine is reset and returns to the game mode.
On the menu screen, select MONITOR TEST and press the start button.

A crosshatch appears on the screen.

Press the start button; the screen changes to a color bar display.

Press the start button; the screen changes to white. Another press of the start button changes to cross hatch screen.

When the image display size or hue is not normal, adjust, referring the description for the monitor screen adjustment. [Adjustment of the monitor screen ⇒ See page 86.]

Press the test switch; the monitor goes back to the menu screen from any screen display.
On the menu screen, select the SWITCH TEST, and press the start button.

### SWITCH TEST

<table>
<thead>
<tr>
<th>Item</th>
<th>Display details</th>
<th>Detection result</th>
</tr>
</thead>
<tbody>
<tr>
<td>COIN</td>
<td>Detects input of the coin switch</td>
<td>When there is an input, the counter increases by one.</td>
</tr>
<tr>
<td>SERVICE</td>
<td>Detects input of the service switch</td>
<td>• When there is an input, the monitor displays [ON.]</td>
</tr>
<tr>
<td>START</td>
<td>Detects input of the start button</td>
<td>• When there is no input, it displays [OFF.]</td>
</tr>
<tr>
<td>VIEW</td>
<td>Detects input of the service switch</td>
<td></td>
</tr>
<tr>
<td>HAZARD</td>
<td>Detects input of the start button</td>
<td></td>
</tr>
<tr>
<td>SHIFT UP</td>
<td>Detects input of the shift lever</td>
<td></td>
</tr>
<tr>
<td>SHIFT DOWN</td>
<td>Detects input of the shift lever</td>
<td></td>
</tr>
<tr>
<td>SIDE BRAKE</td>
<td>Detects input of the side brake lever</td>
<td></td>
</tr>
<tr>
<td>HANDLE</td>
<td>Detects input of the steering wheel</td>
<td>Detected value changes</td>
</tr>
<tr>
<td>ACCEL</td>
<td>Detects accelerator pedal input</td>
<td></td>
</tr>
<tr>
<td>BRAKE</td>
<td>Detects input of the brake pedal</td>
<td></td>
</tr>
<tr>
<td>LAMP OUT</td>
<td>Displays lamp name currently lighting</td>
<td>The lamps light one after another</td>
</tr>
</tbody>
</table>

- **Coin switch**
  Check the input of the coin switch. Lightly lower the actuator of the coin switch; the numeric value on the screen rises by one and the counter of the coin meter also increases by one.

- **Service switch**
  Press the service switch and when the screen display changes from OFF to ON, the switch is normal.

- **Start, view change, and hazard button**
  Press these buttons, when the screen changes from OFF to ON, the respective switch is normal.
Fold down the shift lever toward you, and if the display of [SHIFT UP] changes from [ON] to [OFF] fold it down to from and the when the display for [SHIFT DOWN] changes from [ON] to [OFF] the shift lever is normal.

Pull the side brake; when the display changes from OFF to ON, the side brake lever input is normal.

Operate the steering wheel, accelerator pedal, and brake pedal; the direct value and check value on the screen change accordingly. When the displayed values do not change, or if the displayed value is different from respective value listed below, you must adjust it. (Each time the power is input, the machine automatically adjusts the steering wheel.)

<table>
<thead>
<tr>
<th>Detect value of the steering wheel</th>
<th>Accelerator pedal detection value</th>
<th>Brake pedal detection value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn it left to the end -&gt; 1.0</td>
<td>Release -&gt; 0.0</td>
<td>Release -&gt; 0.0</td>
</tr>
<tr>
<td>Adjust to the center -&gt; 0.0</td>
<td>Foot -&gt; 1.0</td>
<td>Foot -&gt; 1.0</td>
</tr>
<tr>
<td>Turn it right to the end -&gt; -1.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Press the start button; the lamps light one by one. The screen displays the name of the currently lit lamp.
Adjust the accelerator and brake pedals.

1. On the menu screen, select the ADJUSTMENT item and press the start button.

![ADJUSTMENT](image)

Adjust the pedals, following the instructions on the screen.

2. 1) Press your foot down on the accelerator pedal to the full and press the start button.
   2) Release the accelerator pedal and press the start button.
   3) Press your foot down on the brake pedal to the full and press the start button.
   4) Release the brake pedal and press the start button.

Save the adjusted data.

3. If you do not want to save the adjustment, select [NO] using the shift lever. If you want to save the adjustment, select [YES] and press the start button.

On the menu screen, select SOUND TEST and press the start button.

![SOUND TEST](image)

<table>
<thead>
<tr>
<th>Item</th>
<th>Display details</th>
<th>Numeric value range, factory setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASTER VOLUME</td>
<td>Full sound level from the speakers</td>
<td>0～100 (50)</td>
</tr>
<tr>
<td>SE VOLUME</td>
<td>Sound level of effective sound</td>
<td>0～100 (100)</td>
</tr>
<tr>
<td>SE CODE</td>
<td>Tune number of effective sound to listen as a test</td>
<td>0～54</td>
</tr>
<tr>
<td>BGM VOLUME</td>
<td>Sound level of tune</td>
<td>0～100 (83)</td>
</tr>
<tr>
<td>BGM CODE</td>
<td>Music number to listen as a test</td>
<td>1～19</td>
</tr>
<tr>
<td>WOOFER VOLUME</td>
<td>Woofer sound level</td>
<td>0・33・66・100 (66)</td>
</tr>
</tbody>
</table>
Select an item using the shift lever, and change the numeric value using the view change (increase) and hazard (decrease) buttons. To replay, press the start button.

Select [MASTER VOLUME] and adjust the sound loudness level. Press the start button; the tune selected by the [BGM CODE] is played with the adjusted sound level.

Select the [SE VOLUME] and adjust the sound loudness level. Press the start button; the tune selected by the [SE CODE] is played with the adjusted sound level.

- How to adjust the BGM (effect sound) volume
Select the [BGM VOLUME] and adjust the sound loudness level. Press the start button; the tune selected by the [BGM CODE] is played with adjusted sound level.

- How to adjust the WOOFER volume
Select the [WOOFER VOLUME] and adjust the sound loudness level.

After adjusting the sound volumes, select [EXIT] using the shift lever, and press the start button.

Save the set data.

If you do not want to save the adjustment, select [NO] using the shift lever.
If you want to save the adjustment, select [YES] and press the start button.
Select the [CONFIGURATION] item on the menu and press the start button.

<table>
<thead>
<tr>
<th>Item</th>
<th>Screen display</th>
<th>Display details</th>
</tr>
</thead>
<tbody>
<tr>
<td>COIN</td>
<td>1〜9COIN(S)</td>
<td>Number of coins per game</td>
</tr>
<tr>
<td>FREE PLAY</td>
<td></td>
<td>Free play mode</td>
</tr>
<tr>
<td>CREDIT</td>
<td>1〜4CREDIT(S)</td>
<td>Number of game to be able to play</td>
</tr>
<tr>
<td>CONTINUE</td>
<td>1〜8COIN(S)</td>
<td>Setting play fee for continue play</td>
</tr>
<tr>
<td>SAME AS PLAY</td>
<td></td>
<td>Setting to same number of coins as the play fee</td>
</tr>
<tr>
<td>OFF</td>
<td></td>
<td>Setting not to offer continue play</td>
</tr>
<tr>
<td>DIFFICULTY</td>
<td>EASY</td>
<td>Easy</td>
</tr>
<tr>
<td>NORMAL</td>
<td>NORMAL</td>
<td>Normal</td>
</tr>
<tr>
<td>HARD</td>
<td></td>
<td>Difficult</td>
</tr>
<tr>
<td>VERY HARD</td>
<td></td>
<td>Very difficult</td>
</tr>
<tr>
<td>ATT SOUND</td>
<td>ON</td>
<td>With sound during demonstration</td>
</tr>
<tr>
<td>OFF</td>
<td></td>
<td>Without sound during demonstration</td>
</tr>
<tr>
<td>LAN ID NUMBER</td>
<td>1〜4</td>
<td>ID number for communication play</td>
</tr>
<tr>
<td>SECRET CAR</td>
<td>ON</td>
<td>With a secret car</td>
</tr>
<tr>
<td>OFF</td>
<td></td>
<td>Without a secret car</td>
</tr>
</tbody>
</table>

Descriptions in parenthesis () are factory settings.

When the machine will be operated in the communication play mode, you have to set the ID numbers. ID number 1 is assigned to left seat, and ID number 2 is assigned to right seat when the machine is delivered. If the same numbers are set for both sets of seats, the machine cannot be used in the communication play mode. If you reset the configuration to the factory settings, you will have to enter the ID numbers again.

The BATTLE GEAR 3 game can use two game machines to allow up to four players to play simultaneously. To do this, you must assign ID numbers from 1 to 4.

After the settings, select [EXIT] using the shift level and press the start button.

Save the set data.

If you do not want to save the data, select [NO] using the shift lever. If you want to save, select [YES] and press the start button.
When to play the attack mode without using an entry key, ghost cars appear to compete in the race. This function resets the ghost data to change to the default ghost.

1. On the menu screen, select [GHOST RESET] and press the start button.

2. If you do not want to reset, select [NO.] If you want to reset, select [YES] using the shift button and press the start switch.

It returns to the ranking which reset the ranking data in time attack mode and is contained by the default.

1. On the menu screen, select [HI SCORE RESET] and press the start button.

2. If you do not want to reset, select [NO.] If you want to reset, select [YES] using the shift button and press the start switch.
Check the hard disk.
It will take approximately 10 minutes to complete the check.

1 On the menu screen, select [HDD TEST] and press the start button.

![HDD TEST]

- IT TAKES 10 MINUTES.
- TEST HDD?
- YES (NO)
- SELECT: SHIFT-SW
- DECIDE: START-SW

2 If you do not want to test, select [NO.] If you want to test, select [YES] using the shift button and press the start switch.

3 If there is an error on the hard disk, the screen shows an error message.
This function changes the configuration, sound, and adjustment settings to the default settings. After executing the factory setting, you have to adjust the date and time.

1. On the menu screen, select the [FACTORY SETTING] and press the start button.

2. If you do not want to initialize, select [NO.] If you want to initialize, select [YES] using the shift button and press the start switch.

3. When you select [YES] the monitor shows the date and time setting screen. Select an item using the shift lever and change numeric values using the view change and hazard buttons. After setting, press the start button.

4. This function adjusts the accelerator and brake pedals. Follow the instructions on the screen for adjustment.
Check and clean the machine before and after operation each day, following the items below. Especially carefully check positions where players may touch.

1. **Check that nothing is put on the power cord.**
2. **Check that the ground line of the plug adapter is connected.**
3. **Check that there is no damage to or dirt on the cabinets.**
4. **Check that the machine does not deviate from its original position due to looseness of height adjusters.**
   - Check that all the height adjusters touch the ground.
   - Check that there is no damage to the adjuster bolts and casters.
5. **Check that the door is not loose.**
6. **Check that the machine emits sound normally.**
   - Check that the fluorescent lamps and other lamps light.
   - Check that there is no abnormal sound.
   - Check that there is no abnormality on the operation systems.
Normally, wipe off the outside of the cabinets using soft dry clothes. If dirt cannot be cleaned off, soak a cloth in a solution of neutral solvent and diluted water. Then, squeeze it tight and wipe with this cloth. After that, wipe off with a dry cloth again.

Do not use thinner or benzene for cleaning.
While looking at the monitor test, turn the adjustment dials.

1. Open the rejecter door and start up the test mode of a seat you want to adjust.
2. Execute the MONITOR TEST and display the crosshatch, color bar, and white screens. To change screens, press the start button.
3. Adjust each item using each dial in the rejecter door.

- R.GAIN: Red gain
- B.GAIN: Blue gain
- BRIGHT: Brightness
- CONT: Contrast

V. POSI: Vertical position
V. SIZE: Vertical size
H. POSI: Horizontal position
H. SIZE: Horizontal size

Adjust red color density.

Adjust blue color density.

Adjust image brightness.
Adjust image darkness.

Slide the image up and down to the required position.

Adjust vertical width of the image.

Slide the image left and right to the required position.

Adjust the horizontal width of the image.

Adjust the hue of the monitor screen using the degaussing switch.

Open the rejecter door and press a degaussing switch to correct. Keep pressing the switch until the image hue is corrected. Before pressing the degaussing switch, wait at least 10 minutes.
1) A fluorescent assembly is located inside the title panel.
Remove the title panel before replacement.
1. Turn OFF the power switch and leave it for three minutes.

2. Remove the title support and then the title panel.
   [Trusses tapped tight: M4 x 10]

3. Replace the fluorescent lamp (40 W) and glow lamp.

   [Fluorescent lamp : C15 00069A  FL LAMP  FL40SEX-D-HG]
   [Glow lamp : C14 00102A  GLOW LAMP  FG-4P]
2) ขั้นตอนการดำเนินการ ขั้นตอนการทำตามขั้นตอน

**CAUTION**

Turn OFF the power switch.

1. Remove the steering wheel. For removing, take out the emblem at the center by unscrewing three screws, and remove the lock nut inside, and pull out the steering wheel.

   - Three counter sink-head screw: M4 x 12
   - Emblem
   - Flat washer: M10
   - Spring washer: M10
   - Lock nut: M10

2. Remove the securing screws on the dashboard panel.

   - 8 Trusses tapped tight S: 4 x 10
   - Dashboard panel
4 Remove two connectors inside the dashboard and remove the dashboard.

5 Remove the securing strap on the switch assembly of the wedge lamp to replace, and pull out the switch assembly. Then, replace the wedge lamp. Remove the securing nut so that the wedge lamp can be removed.

- Start view change button
  [C02 00433A  LAMP SWITCH-(THIN TYPE) OBSA-30UM-W-161]
- Hazard button
  [C02 00425A  LAMP SWITCH-(THIN TYPE) OBSA-45UM-W-161]
- Wedge lamp
  [C14 00320A  WEDGE LAMP 24V 3W]
6 Install the dashboard panel. 8 Trusses tapped tight: M4 x 10.

7 Turn the shaft right until it stops at the stopper.

8 Position the steering wheel as shown below (the spoke directs the right side), and insert it into the shaft while matching the tooth. After it is inserted, turn the steering wheel left to the end. Check that the steering can be turned both left and right to the full equally.

9 Secure the steering wheel. For securing, reverse the steps of step [2] above.
3) งบการใช้งาน

**CAUTION**

งบการใช้งาน

1. Turn OFF the power switch.

2. Remove the steering wheel and dashboard.

3. On the dashboard front side, remove the three screws securing the cylinder mechanism.

   - 3 Blind tap tightened
   - 4 x 10

   Cylinder mechanism assembly

   - Sensor connector

4. Remove the sensor connector and remove the cylinder mechanism assembly.
4)  การปฏิบัติการที่ต้องระวัง  การตัดสินใจเพื่อความปลอดภัย

**CAUTION**

- ตั้งค่าการปิดสวิตช์การทำงานและเปิดประตูหลัง B.

1. Turn OFF the power switch and open the rear door B.

2. Remove the steering wheel and dashboard.

3. Remove the four connectors that are connected to the steering motor PC board from the rear door and both sides of the dashboard.

4. Remove the five securing screws and removes the steering motor PC board.

5 Semuth screws (W): M3 x 8
5) .INSTRUCTION TO INSTALL THE REAR DOOR "T" ROLLER SHAFTS

⚠️ CAUTION ⚠️

- [1] Turn OFF the power switch and open rear door B.
- 3 Semuth screws (W): M5 x 12.

2.

Disconnect the connector of each pedal (X and Z).

3.

Remove securing screws of each assembly and take out the assemblies from the rear door. [Semuth screw (W): M5 x 12]
The volume replacement method is the same for both the brake and accelerator pedals.

1. Disconnect three wires from the volume using a heated solder iron.

2. Remove the VR bracket (pedal) (Two screws).

3. Remove the nut and then remove the volume from the VR bracket. Secure a new volume using a nut. Align a protrusion at the back of the volume with a dent on the VR bracket.

Do not forget to attach accessories of the volume.
4 Install the VR bracket. Align gear B and gear A with each mark, and be sure to engage the tooth while not pressing too tight.

5 Connect the wires on the volume using solder. Be careful not to confuse wire colors.

6 Install each pedal assembly to the machine. Apply looseness prevention agent on each screw. Then connect the connectors.

7 Close the rear door B. Three Surmuth screws (W): M5 x 12

8 After turning ON the power, execute the adjustment on the test mode. Without the adjustment, the machine cannot play the game normally.

Make sure to execute the adjustment in the test mode after replacing the volumes.
6) CAUTION

Turn OFF the power switch and open rear door B.
3 Semuth screws (W): M5 x 12

Remove all the connectors that are connected to the shield case.

Remove the screws that secure the shield case assembly, and remove the shield case assembly. Two Semuth screws (W): M4 x 12
Remove the securing screws of the security dongle cover and replace the security dongle. [One Semuth screw (W): M3 x 6]

Remove the securing screws of the case cover and open the case cover. [Two Semuth screws (W): M3 x 6]

Remove the connectors that are connected to the hard disk.
3. Remove the securing screws of the hard disk assembly.  
   [Four Semuth screws (W): 73 x 6]

4. Remove the hard disk assembly.  
   After the replacement, install the hard disk with reversing the order of the removal.
Secure the shield case assembly on the PCB base assembly.
Before securing it, connect the USB connector (blue) to the lower connector first. [Two Semuth screws (W): M4 x 12]

Connect the connectors to the shield case assembly.
7) CAUTION

CAUTION

Turn OFF the power switch and pull the power plug out.

1. Remove the fuse holder cap using a Phillips screwdriver and replace the fuse inside.

Fuse (accessory): 8A, 250 V

Fuse [C16 00084A  FUSE  8A 250V (6.3x30)]
1. Turn OFF the power switch and pull the power plug out.

2. Open the rear door B. Three Semuth screws (W): M5 x 12

3. Replace the small fuse (5 A, accessory).

Small fuse (accessory)
5 A, 125 V

Amplifier PC board

- Small fuse
- [C16 00027A FUSE 5A 125V (5.2x20)]
When discarding the **BATTLE GEAR 3** game machine, or the parts used in the machine, the machine owners should handle all of the parts as industrial waste under his/her responsibility.

At delivery, the machine is protected using the packaging materials. Discard the packaging material following the local garbage classification regulations.

After replacement, discard the waste parts such as the fluorescent lamp, following the local garbage classification regulations.
<table>
<thead>
<tr>
<th>Fault Code</th>
<th>Description</th>
<th>Error Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>15200202</td>
<td>Steering wheel cannot be identified.</td>
<td>15200202</td>
</tr>
<tr>
<td></td>
<td>Fault of the steering motor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fault of the steering motor PC board</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Faulty connection of the connector</td>
<td></td>
</tr>
<tr>
<td>15200203</td>
<td>The machine failed to initialize the steering</td>
<td>15200203</td>
</tr>
<tr>
<td></td>
<td>wheel.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The steering wheel is not in a normal position.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>After occurrence of this error, the machine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>automatically resets.</td>
<td></td>
</tr>
<tr>
<td>15200204</td>
<td>• Fault of the service switch</td>
<td>15200204</td>
</tr>
<tr>
<td></td>
<td>• The service switch is kept pressed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Check the service switch with the test mode.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• If the switch does not provide input, replace</td>
<td></td>
</tr>
<tr>
<td></td>
<td>the switch.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Check input of equipment =&gt; See page 50)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Check service switch status.</td>
<td></td>
</tr>
<tr>
<td>15200205</td>
<td>The backed up data may different from the</td>
<td>15200205</td>
</tr>
<tr>
<td></td>
<td>current version.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Do the adjustment in the test mode.</td>
<td></td>
</tr>
<tr>
<td>15200206</td>
<td>• Fault of the coin switch.</td>
<td>15200206</td>
</tr>
<tr>
<td></td>
<td>• Clogged coins.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Check coin switch status with the test mode.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• If there is no input, replace the coin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>switch.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Open the rejecter door and check the rejected</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(After occurrence of the error, the machine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>automatically resets.)</td>
<td></td>
</tr>
<tr>
<td>15200207</td>
<td>• More than two machines are connected.</td>
<td>15200207</td>
</tr>
<tr>
<td></td>
<td>• The LAN cable is disconnected while in match</td>
<td></td>
</tr>
<tr>
<td></td>
<td>race or during selection.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Configure to two-machine communication.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Check the LAN cable.</td>
<td></td>
</tr>
<tr>
<td>Trouble</td>
<td>Possible causes</td>
<td>Treatment</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>The machine does not start after turning ON the power switch.</td>
<td>• The power plug is not inserted into a power outlet.</td>
<td>• Check the power plug and turn ON the power.</td>
</tr>
<tr>
<td></td>
<td>• Fuse 8A is blown.</td>
<td>• Replace fuse 8A.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Replacement of the fuse =&gt; Page 76)</td>
</tr>
<tr>
<td>Cannot hear the sound</td>
<td>• Improper sound loudness level.</td>
<td>• Changes sound loudness volume in the test mode.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Sound test =&gt; Page 52)</td>
</tr>
<tr>
<td>Operation of the brake pedal and accelerator pedal does not match the game operation.</td>
<td>• Deviation of adjustment position on the operation system.</td>
<td>• Do the adjustment in the test mode and readjust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Adjustment =&gt; Page 52)</td>
</tr>
<tr>
<td>Color display on the monitor screen is partly abnormal.</td>
<td>• The monitor may be gauzed.</td>
<td>• Press the degaussing switch on the central control in the rejector door.</td>
</tr>
<tr>
<td>Monitor screen image deviates or is deformed.</td>
<td>• Monitor adjustment is not appropriate.</td>
<td>(Hue adjustment =&gt; Page 61)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Adjust using the monitor adjuster in the rejector door. (Adjustment of monitor screen =&gt; Page 60)</td>
</tr>
<tr>
<td>The title section is dark.</td>
<td>• Life over of the fluorescent lamp.</td>
<td>• Replace the fluorescent lamp or glow lamp. (Replacement of fluorescent lamp =&gt; Page 62)</td>
</tr>
<tr>
<td>The switch lamp does not light (start, view change, or hazard lamp).</td>
<td>• Life over of the switch lamp.</td>
<td>• Replace the switch lamp.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Replacement of the wedge lamp =&gt; Page 64)</td>
</tr>
<tr>
<td>Unable to operate brake or accelerator pedal</td>
<td>• Fault of each operation volume system.</td>
<td>• After replacing the volume, do the adjustment operation. (Volume replacement of each pedal assembly =&gt; Page 69) (Adjustment =&gt; Page 52)</td>
</tr>
<tr>
<td>Unable to read an entry key</td>
<td>• Fault of the cylinder mechanism.</td>
<td>• Replace the cylinder mechanical assembly.</td>
</tr>
<tr>
<td></td>
<td>• Fault of the entry key</td>
<td>• Replace the entry key.</td>
</tr>
<tr>
<td>An error message is displayed.</td>
<td></td>
<td>• See the error indication table. (Table of error indications =&gt; Page 79.)</td>
</tr>
</tbody>
</table>
NOTE

TITLE
VIDEO CABINET ASSY-(1.7R)-(WITH ALARM)
通信ケーブル配線図

PARTS LIST

<table>
<thead>
<tr>
<th>No</th>
<th>PARTS No.</th>
<th>PARTS LIST</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>L9004815A</td>
<td>USB CABLE-(AB)-(0.45M)</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>M1000290A</td>
<td>USB-LAN I/F USB-ET/TX-S</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>C1101430A</td>
<td>FERRITE CORE MFC16813EA</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>F0100064A</td>
<td>PA CRAMP PA-2DB</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>L9003216A</td>
<td>ETHERNET CABLE-(STRAIGHT)-(3.0M)</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>M1000289A</td>
<td>HBR-(1099E-1 PORT RTX) CS-4008PPM</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>F0100070A</td>
<td>DK CRAMP-(24X15) DKN-7G</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>F0100068A</td>
<td>TL CRAMP TL-18A</td>
<td>1</td>
</tr>
</tbody>
</table>

NOTE

VIDEO CABINET ASSY-(1.7R)-(WITH ALARM)
CABINET HARNESS

- White: 1
- Red: 1
- Black: 3

NOTE

TITLE VIDEO CABINET ASSY-(1.7R)-(WITH ALARM)
VIDEO CABINET ASSY-(1.7R)-(WITH ALARM)
VIDEO CABINET ASSY-(1.7R)-(WITH ALARM)
VIDEO HARNESS
DRIVER HARNESS
KEY HARNESS

NOTE

TITLE VIDEO CABINET ASSY-(1.7R)-(WITH ALARM)
PARTS LIST

<table>
<thead>
<tr>
<th>No.</th>
<th>Parts No.</th>
<th>Parts List</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E9100045A</td>
<td>TITLE STAY</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>E3100630A</td>
<td>STAY BRACKET-L</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>E3100631A</td>
<td>STAY BRACKET-R</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>TRUSS HD SCREW-&lt;CHROME&gt; M4X14</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>HEX CAP NUT-&lt;CHROME&gt; M4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>6</td>
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NOTE

TITLE VIDEO CABINET ASSY-(1.7R)-(WITH ALARM)
### Parts List

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**Title:** SWITCH BOX ASSY
1.3R
1 D20 01854A VIDEO BOARD-29 1.3R
5 M11 00043A VIDEO ASSY-(29 INCH)-(1.3R)

PARTS LIST

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STEERING MECHA ASSY
2PLACES

1PLACE

2PLACES

2PLACES

TITeLE SIDE COVER ASSY-R

PARTS LIST

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NOTE
### Parts List

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**Note:**

- + : White
- - : Red

**Title:**

CONSOLE BASE ASSY
SIDE BRAKE ASSY
4 PLACES

NOTE

TITLE
SIDE BRAKE ASSY

PARTS LIST

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Green-Yellow

NO: White-Yellow

COM: Black

S1