

***GUNBLADE U/R* TABLE OF CONTENTS**

|   |       |
|---|-------|
| <a href="#">INTRODUCTION OF THE OWNER'S MANUAL</a>                                | 1     |
| GAME REGISTRATION INFORMATION (not included)                                      | 2     |
| <a href="#">GENERAL PRECAUTIONS</a>   | 3     |
| <a href="#">SPECIFICATIONS</a>  | 4     |
| <a href="#">INSTALLATION ITEMS</a>  | 5     |
| <a href="#">ASSEMBLY AND PRECAUTIONS</a>  | 6     |
| <a href="#">LEG ADJUSTERS</a>   | 7     |
| <a href="#">ASSEMBLY CHECKS</a>   | 8     |
| <a href="#">POWER CHECKS</a>  | 9     |
| <a href="#">OPERATION</a>   | 10    |
| <a href="#">HOW TO PLAY</a>   | 11    |
| <a href="#">EXPLANATION OF TEST AND DATA DISPLAYS</a>                             | 12-25 |
| <a href="#">SWITCH UNIT</a>   | 13    |
| <a href="#">TEST MODE</a>   | 14    |
| <a href="#">MEMORY TEST</a>   | 15    |
| <a href="#">INPUT TEST</a>  | 16    |
| <a href="#">OUTPUT TEST</a>   | 17    |
| <a href="#">SOUND TEST</a>  | 18    |
| <a href="#">CRT TEST</a>  | 19    |
| <a href="#">GAME ASSIGNMENTS</a>  | 20    |
| <a href="#">COIN ASSIGNMENTS</a>  | 21    |
| <a href="#">MANUAL SETTINGS</a>   | 22    |
| <a href="#">AIM SET / GUN CALIBRATION</a>   | 23    |
| <a href="#">BOOKEEPING</a>  | 24    |
| <a href="#">BACK UP DATA CLEAR</a>  | 25    |
| <a href="#">SERVICE INFORMATION</a>   | 26-35 |
| <a href="#">CONTROLLER</a>  | 26    |
| <a href="#">VR ADJUSTMENT</a>   | 27    |
| <a href="#">REPLACEMENT OF TRIGGER SWITCH</a>                                     | 28    |
| <a href="#">REPLACING THE MICRO SWITCH</a>  | 29    |
| <a href="#">REPLACEMENT OF MOTOR BRUSH</a>  | 30    |
| <a href="#">GREASING</a>  | 31    |
| <a href="#">COIN SELECTOR</a>   | 32    |
| <a href="#">CAUTIONS AND WARNINGS CONCERNING SAFETY AND HANDLING THE MONITORS</a> | 33    |
| <a href="#">STATIC CONVERGENCE ADJUSTMENT</a>                                     | 34    |
|   |       |

|   |     |
|---|-----|
| <a href="#">NANO A MONITOR</a>                  | 35  |
| <a href="#">REPLACEMENT OF FLUORESCENT LAMP</a> | 36  |
| <a href="#">PERIODIC INSPECTION TABLE</a>       | 37  |
| <a href="#">TROUBLESHOOTING</a>                 | 38  |
| <a href="#">GAME BOARD</a>                      | 39  |
| <a href="#">DESIGN RELATED PARTS</a>            | 40  |
| <a href="#">PARTS IDENTIFICATION</a>            | 41  |
| <a href="#">WIRING DIAGRAMS</a>                 | XXX |

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[\[Table of Contents\]](#) [\[Next Page\]](#)

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## **INTRODUCTION OF THE OWNER'S MANUAL**

SEGA ENTERPRISES, LTD., has for more than 30 years been supplying various innovative and popular amusement products to the world market. This Owners Manual is intended to provide detailed descriptions together with all the necessary installation, game settings and parts ordering information related to **GUN BLADE NY**, a new SEGA product.

This manual is intended for those who have knowledge of electricity and technical expertise, especially in ICs, CRTs, microprocessors, and circuit boards. Read this manual carefully to acquire sufficient knowledge before working on the machine. Should there be a malfunction, non-technical personnel should under no circumstances touch the interior system. Should the need arise, contact our main office or the closest branch office listed below.

### **SEGA ENTERPRISES, INC. (USA)**

#### **Customer Service**

45133 Industrial Drive

Fremont, CA 94538

Phone 415-632-7580

Fax 415-632-7594

7:30 am - 4:00 pm, Pacific Standard Time

Monday thru Friday

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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## GENERAL PRECAUTIONS

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**Follow Instructions:** All operating and use instructions should be followed.

**Attachments:** Do not use attachments not recommended by the product manufacturer as they may cause hazards.

**Accessories:** Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use only mounting accessories recommended by the manufacturer.

**Moving the Product:** This product should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product to overturn.

**Ventilation:** Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the product and to protect it from overheating; these openings must not be blocked or covered. The openings should never be blocked by placing the product in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

**Power Sources:** This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your location, consult your local power company. For products intended to operate from battery power or other sources, refer to the operating instructions.

**Grounding or Polarization:** This product is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

**Power Cord Protection:** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

**Overloading:** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

**Object and Liquid Entry:** Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

**Servicing:** Do not attempt to service this product yourself as opening or removing covers may expose

you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

**Damage Requiring Service:** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a) If the power cord or plug is damaged;
- b) If liquid has been spilled, or objects have fallen into the product;
- c) If the product has been exposed to rain or water;
- d) If the product does not operate normally when following the operating instructions. Adjust only those controls that are explained in the operating instructions. An improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation;
- e) If the product has been dropped or damaged in any way;
- f) When the product exhibits a distinct change in performance; this indicates a need for service.

**Replacement Parts:** When replacement parts are required, be sure the service technician has used replacements parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

**Safety Check:** Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

**Heat:** The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

**Lithium Battery-** Dispose of batteries only in accordance with the battery manufacturer's recommendations. Do not dispose in an open flame condition, since the battery may explode.

**Cleaning:** When cleaning the monitor glass, use water or glass cleaner and a soft cloth. Do not apply chemicals such as benzine, thinner, etc.

**Location:** This an indoor game machine, DO NOT install it outside. To ensure proper usage, avoid installing indoors in the places mentioned below:

- Places subject to rain/water leakage, or condensation due to humidity;
- In close proximity to a potential wet area;
- Locations receiving direct sunlight;
- Places close to heating units or hot air;
- In the vicinity of highly inflammable/volatile chemicals or hazardous matter;
- On sloped surfaces;

- In the vicinity of emergency response facilities such as fire exits and fire extinguishers;
- Places subject to any type of violent impact;
- Dusty places.

### **Installation Precautions**

- Verify the amperage of the branch circuit outlet before plugging in the power plug. Do not overload the circuit.
- Avoid using an extension cord. If one is required, use an extension cord of type SJT, 16/3 AWG rated min. 120 VAC, 7A.
- Moving this unit requires a minimum clearance (of doors, etc.) of 32" (W) by 77" (H).
- For the operation of this machine, secure a minimum area of 32" (W) by 42"(D).

### **Regulatory Approvals**

This game has been tested and found to comply with the Federal Communications Commission Rules.

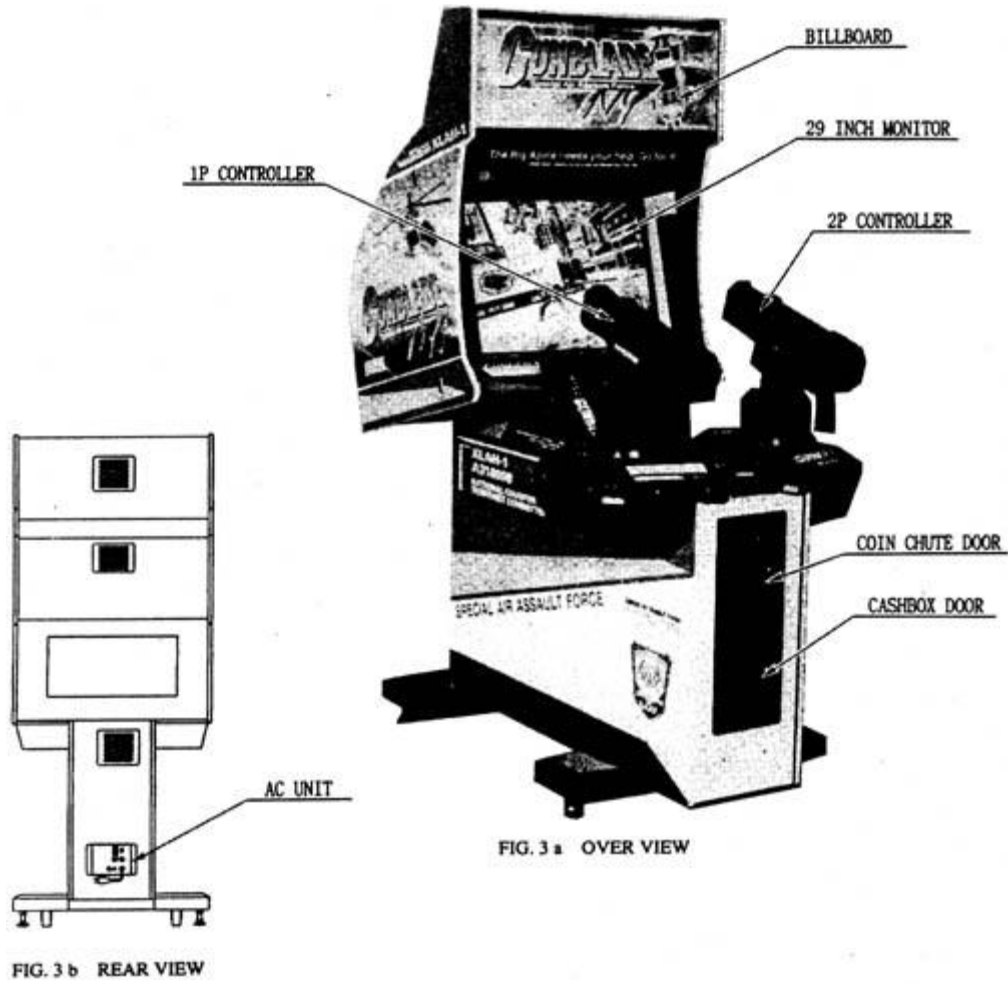
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This game has been tested and listed by Underwriters Laboratories, Inc., to ANSI/UL22.



[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

**SPECIFICATIONS**



|                | WIDTH | LENGTH | HEIGHT | WEIGHT |
|----------------|-------|--------|--------|--------|
| ASSEMBLED GAME | 48 IN | 73 IN  | 89 IN  | 662 IN |

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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## INSTALLATION ITEMS

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The following items are supplied with the machine. Be sure that these items remain with the game if it is transported or sold.

- 1 Service Manual, Gun Blade NY
- 1 Tamperproof wrench, M4
- 1 Tamperproof wrench, MS
- 1 Remote Controller, Mitsubishi Projection TV



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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## ASSEMBLY AND PRECAUTIONS

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- Perform the assembly work by following the procedure stated herein. Failing to comply with the instructions can cause an injury or electrical shock.
- Assembly should be performed as per the instructions in this manual. This is a complex machine and erroneous assembly can cause electrical shock or damage to the machine resulting in undesired operation.
- When assembling the machine, be sure that more than one person is available to perform the work. Depending on the assembly work, there are some cases in which performing the work alone can cause personal injury or damage the game.

When carrying out the assembly work, follow the procedure in the following sequence:

- 1 Securing in place (leg adjusters)
- 2 Assembly check
- 3 Power check

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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## LEG ADJUSTERS

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Make sure that all the leg adjusters are in contact with the floor. If not, the cabinet may move, causing an accident.

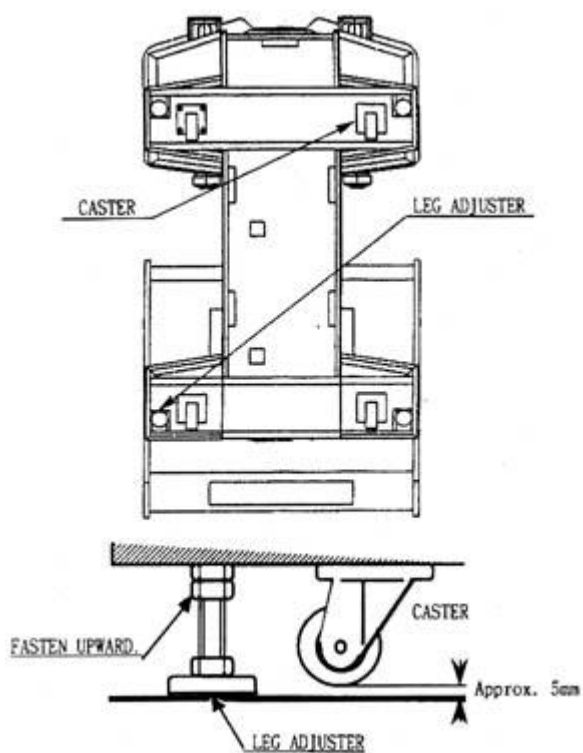
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This machine has 4 casters and 4 leg adjusters. When the installation position is determined, cause the leg adjusters to come into contact with the floor directly, make adjustments in a manner so that the casters will be raised approximately 5mm. from the floor and make sure that the machine position is level.

Move the machine to the installation position.

Cause all of the leg adjusters to make contact with the floor. By using a wrench, make adjustments in the height of the leg adjusters to ensure that the machine's position is level.

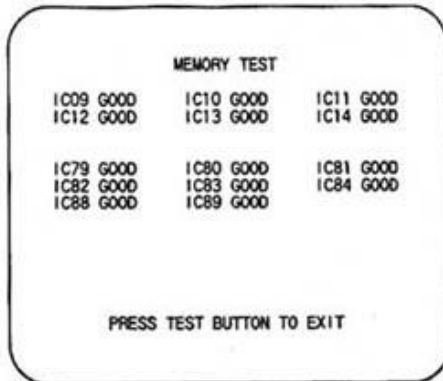
After making adjustments, fasten the leg adjuster nut upward and secure the height of the leg adjuster.



[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

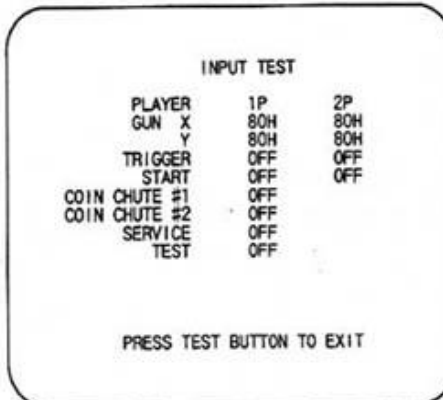
## Assembly Checks

In the test mode, perform the following tests:



### 1. Memory Test

Selecting the Memory Test on the test mode menu screen causes the onboard memory to be tested automatically. The game board is satisfactory if the display beside each IC number shows GOOD.

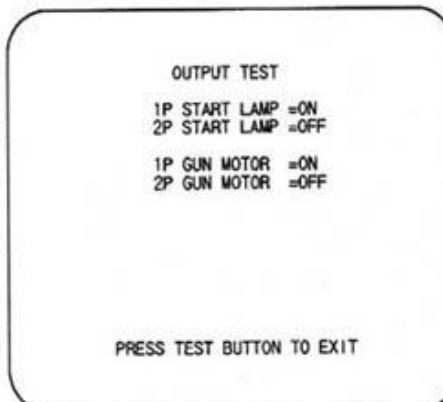


### 2. Input Test

Selecting the Input Test on the test mode menu screen causes the screen (on which each switch is tested) to be displayed. Press each switch. For the coin switch test, insert a coin from the coin inlet with the coin chute door open. If the display beside each switch indicates ON, the switch and wiring connections are satisfactory.

### 3. Output Test

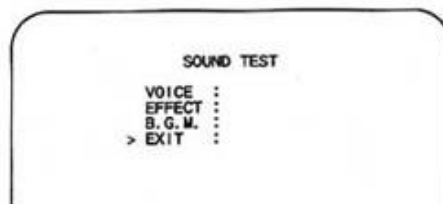
In the Output Test mode, carry out the lamp test to ascertain that each lamp lights up satisfactorily.



### 4. Sound Test

In the Test mode, selecting Sound Test causes the screen (on which sound-related board and wiring connections are tested) to be displayed.

Be sure to check if the sound is satisfactorily emitted from each speaker and the sound volume is appropriate.



### 5. C.R.T. Test

In the Test mode menu, selecting C.R.T. Test allows the screen (on which the monitor is tested) to be displayed. Although the monitor adjustments have been made at the time of shipment from the factory, color deviation, etc. may occur due to the effect caused by geomagnetism, the location building's steel frames and other game machines on the periphery. By watching the test mode screen, decide whether an adjustment is needed. If it is necessary, adjust the monitor by referring to the Monitor Adjustments section.

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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## POWER CHECKS

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When moving the machine, be sure to pull the plug out from the power supply. Moving the machine with the plug inserted can cause the power cord to be damaged, resulting in fire or electric shock.

When moving the machine on the floor, retract the leg adjusters so that the casters come in contact with the floor. During transportation, pay careful attention that the casters do not tread over power cords or wires. Damaging the power cords can cause short circuit or electric shock.

In places with steps or inclines, separate the PTV from the base and cabinet to move them. Attempting to move these parts together, or incline the PTV as it is attached to the base can cause the PTV to fall from the base.

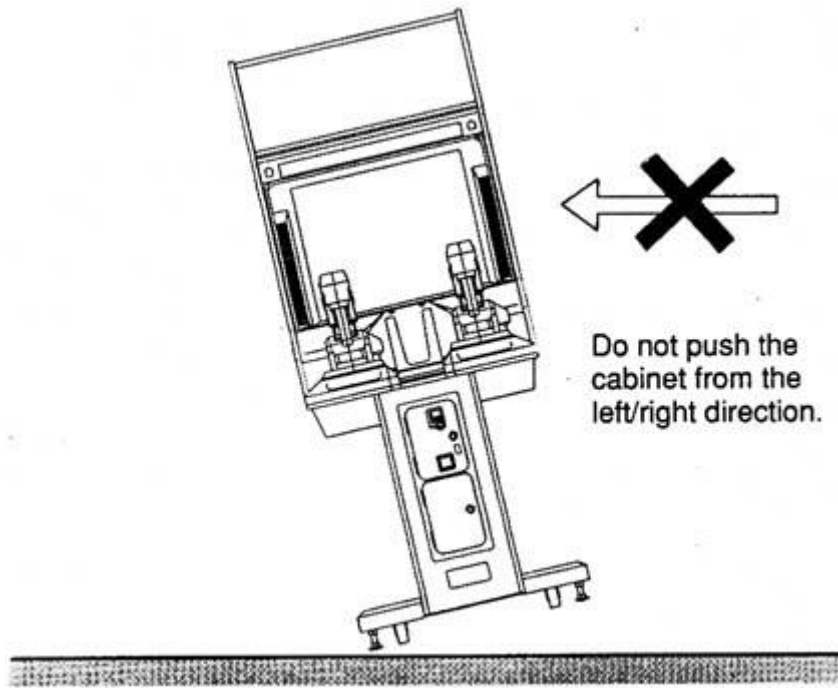
When moving the PTV, do not push it from the front or rear. Push from the side at all times. Pushing the PTV from the front or rear can cause it to overturn causing damage and serious personal injury. Due to the weight of the PTV cabinet, have two or more persons available at all times when attempting to move the PTV.

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When lifting or inclining the cabinet, do not hold the gun controller. Holding the controller can cause the controller and installation portion to be damaged due to the empty weight.

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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## OPERATION

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To ensure safe operation of the product, be sure to comply with all the following precautions.



Be sure that all the leg adjusters are in contact with the floor surface. If they are not, the cabinet can move and cause an accident.

**WARNING:** Do not put any heavy items on the product. Placing heavy items on the product can cause an accident. Do not climb on the game. Climbing on the game can cause accidents as well as damage to the controller and other parts. To inspect the upper portion of the game, use a sturdy step or ladder.

---



To avoid accidents, be sure to provide a sufficient space for operation by considering the most crowded situations. Insufficient space for operation can cause customers to come in contact with the moving parts of the game and hit each other, resulting in injury.

---

To avoid injury and trouble, be sure to pay careful attention to the behavior of players and visitors.



To avoid electric shock and short circuit, do not allow customers to put hands and fingers or extraneous matter into openings of product or small openings in and around the doors.

**WARNING:** To avoid falls or injuries, prevent customers from leaning on or climbing on the game. To avoid electric shock, do not allow the customers to unplug the power plug without good reason. To avoid injury resulting from falling objects or electric shock due to spilled liquids, do not allow customers to place heavy items or drinks on the machine.

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Immediately stop such violent acts as hitting and kicking the product. Such acts can cause damage to parts or breakage, resulting in injury from falling fragments.

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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## HOW TO PLAY

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Insert coin(s). When the number of credits needed for game play are available, "PRESS START" is displayed. Press the start button to have the mission select screen appear.

Choose from one of the three missions, REGAIN THE UN HQ, BIG APPLE LIBERATION, and SCORE ATTACK REMIX, by sighting the desired one and pulling the trigger.

Moving the sight with the controller and pulling the trigger fires projectiles repeatedly.

The enemy who is trying to shoot you is indicated with a warning marker.

In the missions except SCORE ATTACK REMIX, destroying all the enemies in a stage clears that stage, allowing procession to the next stage. In the SCORE ATTACK REMIX, when one minute has elapsed in each stage, the player proceeds to the next stage.

When each player's endurance is exhausted, the game is in the status of waiting to continue. If no coins are inserted to continue the game, the game is over.

### Features of Each Mission

#### *REGAIN THE UN HQ*

To regain the UN headquarters. The difficulty is relatively easy.

#### *BIG APPLE LIBERATION*

Confront the terrorists to regain Manhattan. This level is relatively difficult.

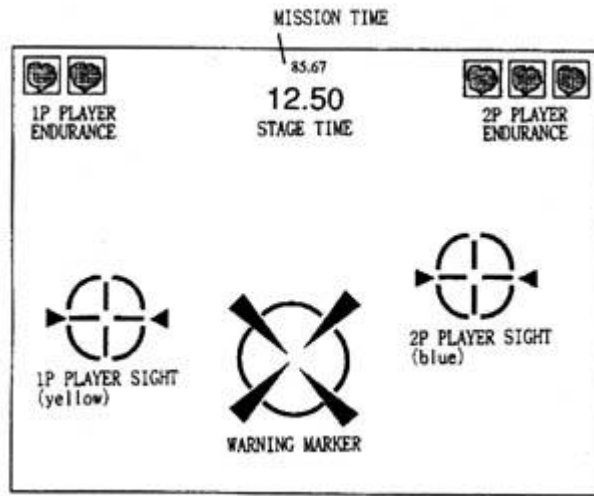
#### *SCORE ATTACK REMIX*

Different from the above two missions, each stage in this mission ends in one minute and the player proceeds to the next stage. Also, note that in this mission, which stage the player proceeds to after finishing a stage depends on the score earned in the stage that was finished.

### Advice

The enemy's projectile can be shot down. Pay attention not only to attacking but also to defense. When attacked, the enemy is thrown in the air or escapes. When attacking the enemy, read its movements ahead of time.

There is nothing the player should not shoot. Depending on the attack, some items will explode. Try to effectively utilize these explosions.





[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

## EXPLANATION OF TEST AND DATA DISPLAY

By operating the switch unit, periodically perform the tests and data check. When installing the machine initially, or collecting cash, or when the machine does not function properly, perform checks in accordance with this section.

The following test modes should be utilized as applicable.

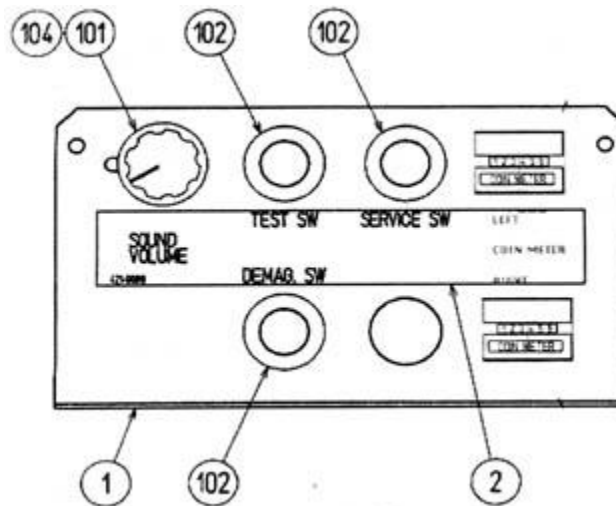
| Items                   | Description  |
|-------------------------|--|
| Installation of Machine | When the machine is installed, perform the following:<br>1. Check to see that each setting is per standard setting made at the time of shipment.<br>2. In the INPUT test mode, check each SW and VR.<br>3. In the OUTPUT test mode, check each of the lamps, motors, etc.<br>4. In the MEMORY test mode, check the IC's on the PC board. |
| Memory                  | Choose MEMORY test in the MENU mode to allow the memory test to be performed. In this test, PROGRAM RAMs, ROMs and IC s on the PC board are checked.   |
| Monthly Servicing       | Monthly perform the following:<br>1. MEMORY test.<br>2. Ascertain each setting.<br>3. In the INPUT test mode, test the CONTROL device.<br>4. In the OUTPUT test mode, check each of the lamps.   |
| Control System          | In the INPUT test mode, check each SW and VR.<br>Adjust or replace each SW or VR.<br>If the problem can not be solved yet, check the CONTROL's moves.  |
| Monitor                 | In the MONITOR ADJUSTMENT mode, check to see if the MONITOR adjustment is correct.   |
| IC Board                | 1. MEMORY TEST<br>2. In the SOUND test mode, check the sound related ROMs.   |
| Data Check              | Check such data as game play time and histogram to adjust the difficulty level, etc.   |

[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

## SWITCH UNIT



Do not touch places other than those specified. Touching places not specified can cause an electric shock or short circuit.



Open the coin chute door and the switch unit shown will appear. The functioning of each SW is as follows:

- TEST BUTTON** For the handling of the test button, refer to the following pages.
- SERVICE BUTTON** Gives credits without registering on the coin meter.
- SPEAKER VOLUME** Can adjust the volume of all speakers of the machine. By considering the environmental aspects of the installation location, adjust to the appropriate sound volume.
- SUPER WOOFER VOL** Only the sound volume of the cabinet superwoofer can be adjusted.
- COIN METER** Registers total number of coins.

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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

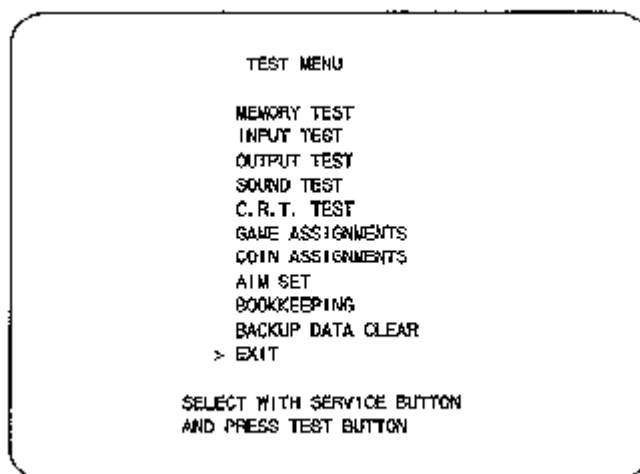
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## TEST MODE

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The Test Menu allows the functioning of each part of the Cabinet to be checked, the monitor to be adjusted, and the coins and game related various settings to be performed.

- Press the **Test Button** to cause the following Test Menu to be displayed on the monitor.
- Press the **Service Button** until the arrow ---> is moved to the desired item to make a selection.
- Bring the arrow ---> to the desired item and press the **Test Button** to enter the selected item's test.
- Choosing EXIT and pressing the Test Button will finish the test mode, and the game mode returns on the screen after network checking.



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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

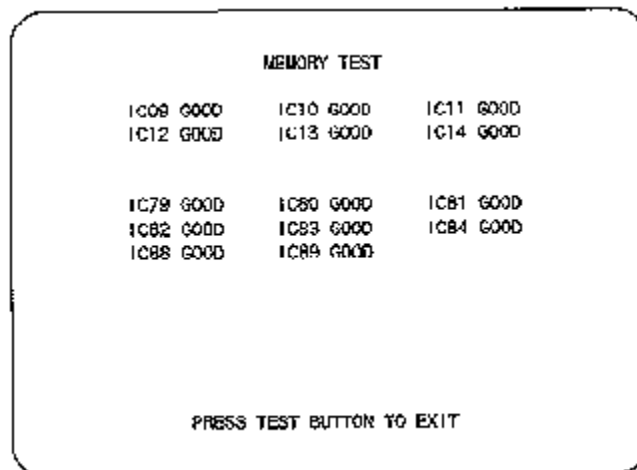
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## MEMORY TEST

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The Memory Test mode is for checking the on-board memory IC functioning. GOOD is displayed for normal ICs and BAD is displayed for abnormal ICs.

- When the test is completed, if the results are shown as below, it is satisfactory.
- When the test is not finished, IC Board malfunctioning may be the cause.
- After finishing the test, press the Test button to return to the Menu mode.



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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

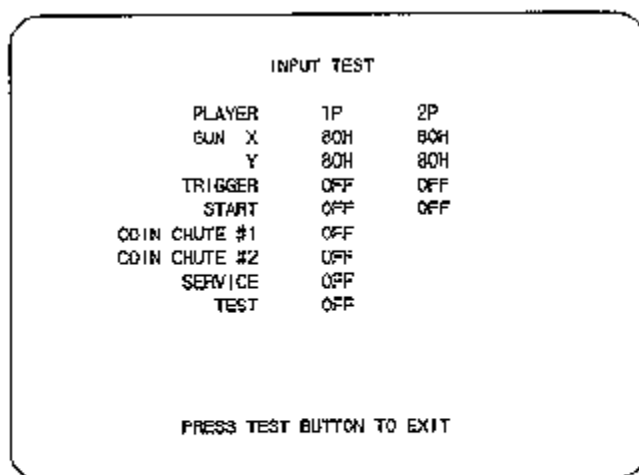
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## INPUT TEST

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When Input Test is selected, the monitor will show the following, allowing you to watch the status of each switch. On this screen, periodically check the status of each switch.

- By pressing each switch, if the display on the right-hand side of the name of each switch changes to ON from OFF, the switch and the wiring connections are satisfactory. When the Controller (Lever) is operated in the direction of the arrow, the right-hand side indication of the Switch name becomes ON.
- To check Coin Chute #1 and Coin Chute #2 Coin Switches, open the Coin Chute Door and insert coin(s) into the slot.
- To return to the Menu mode, press the Test button.



GUN X : Under 30H -> Over dOH  
left                      right

GUN Y : Under 60H -> Over bOH  
down                      up

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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## OUTPUT TEST

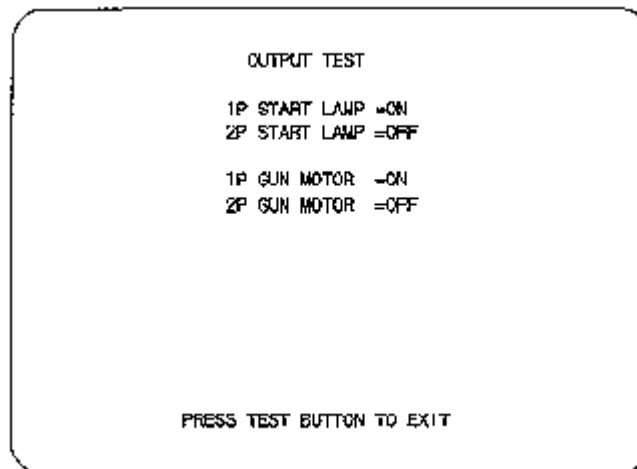
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Selecting Output Test allows the status of each lamp to be viewed. Periodically check the status of each lamp on this screen.

<--- Repeatedly displays sequentially in order of Winner Lamp, 7-SEG. At this time lamp and 7-SEG LED tests are performed in the manner corresponding to the item displayed.

This game does not have 7-SEG LED. During the display of 7-SEG, only the Start button flashes.

- While this screen is displayed, the Start button continues to flash.
- Press the Test button to return to the menu mode.



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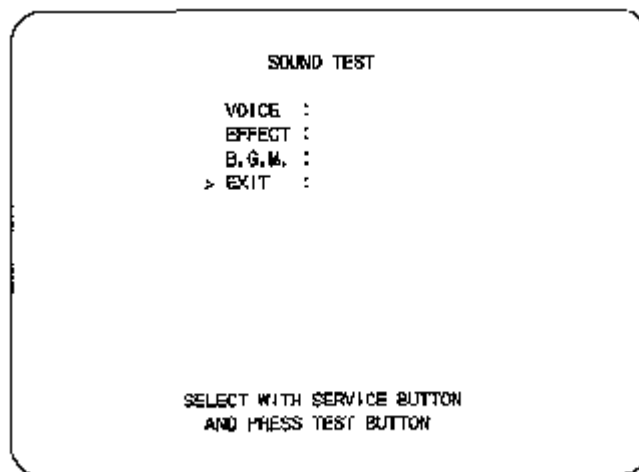
[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## SOUND TEST

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Selecting Sound Test allows sounds (sound effects, announcement, background music, etc.) to be chosen and heard. In this mode, check the sound-related IC Board and each speaker. Press the Service button to bring the arrow ---> to the desired sound item. Press the Test button to have the selected sound played. Each time the Test button is pressed, the next sound is played.



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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

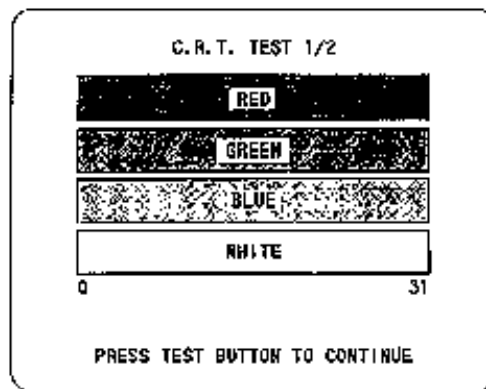
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## CRT TEST

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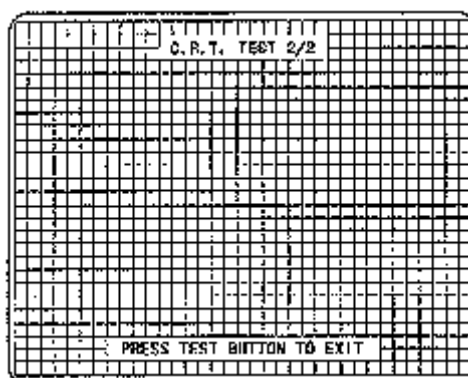
Choose CRT Test to display the screen on which the Monitor adjustment is checked. By watching the screen, periodically check if adjustments are needed or not. For adjustment, refer to the Section of Monitor Adjustment stated herein.

In figure below, check the Monitor's color adjustment. Perform color adjustment by watching this screen.



The color bar of 4 colors i.e. red, green blue and white is darkest at the left end and becomes brighter towards the right end.

Pressing the Test button will have the following crosshatch screen appear.



In this figure, check the Monitor size and position adjustment by watching the screen.

Adjust the Monitor in the manner so that the crosshatch lines do not go beyond the screen. Adjust the Monitor to ensure that crosshatch lines do not have distortions.



Press the Test button to return to the menu mode.

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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## GAME ASSIGNMENTS

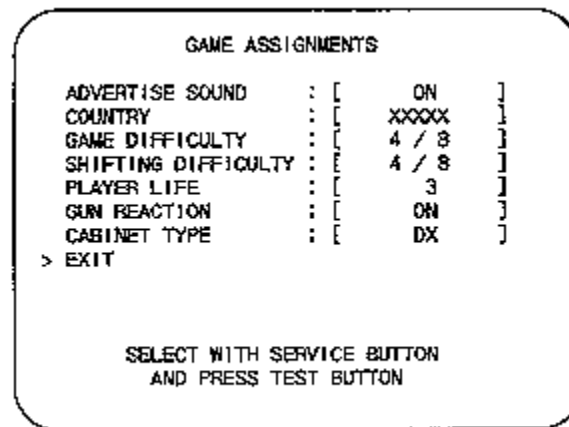
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Selecting **Game Assignments** will have the following screen appear, allowing play time, game difficulty, etc. to be set. Refer to the following for the contents of each item.



Before exiting the setting will not be changed. Be sure to press test to Exit after changing the setting. This will store your settings.

---



|                        |  |
|------------------------|--|
| <b>Game Difficulty</b> | Game difficulty can be varied by changing the enemy missile speed or the ratio of damage the player suffers when attacked, etc. Choose from among 4 levels, Easy, Normal, Hard, Hardest. |
| <b>Advertise Sound</b> | Set this to ON to have sound produced during Demo mode, and OFF for no sound.  |
| <b>Country</b>         | Message language. Select USA for USA and Export for other countries.   |
| <b>Cabinet Type</b>    | Set to Deluxe or Standard, depending on which type is applicable.  |

[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

## COIN ASSIGNMENTS

This mode permits you to set the start number of credits, as well as the basic numbers of coins and credits. This mode expresses "how many coins correspond to how many credits".



Setting change is not effective until Exiting. Be sure to Press test to Exit after setting change.

| COIN ASSIGNMENTS                                    |                        |
|---|------------------------|
| COIN CHUTE TYPE                                     | COMMON..... 1          |
| CREDIT TO START                                     | 2 CREDITS..... 2       |
| CONTINUE  | 1 CREDIT..... 3        |
| 2PLAYER CREDIT TO START                             | 2 CREDITS..... 4       |
| COIN/CREDIT SETTING #1                              |                        |
| COIN CHUTE #1                                       | 1 COIN 1 CREDIT..... 5 |
| COIN CHUTE #2                                       | 1 COIN 1 CREDIT..... 6 |
| MANUAL SETTING.....                                 | 7                      |
| > EXIT  |                        |
| SELECT WITH SERVICE BUTTON<br>AND PRESS TEST BUTTON |                        |

**Credit to Start** Sets the number of credits required when starting the game.

**Credit to Continue** This sets the number of credits required to continue game.

**Coin/Credit Setting** How many coins correspond to how many credits. In this machine, selection as per the adjacent chart is possible.

**Manual Setting** Allows for finer settings. See chart.

1. Press the Service button or Shift button to bring the arrow to the desired change item.
2. Press the Test button or the Start button to select the setting change item.
3. Move the arrow to Exit and press the Test button or the Start button to return the menu mode to the screen.

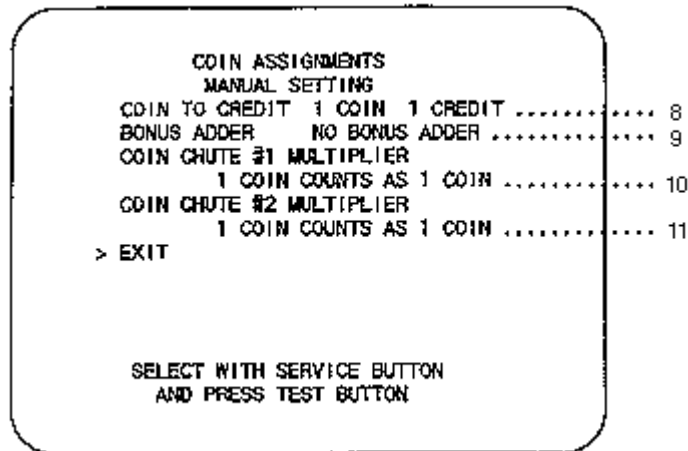
### COIN/CREDIT SETTING (COIN CHUTE COMMON TYPE)

| NAME OF | FUNCTIONING OF COIN | FUNCTIONING OF COIN |
|---------|---------------------|---------------------|
|         |                     |                     |

| SETTING     | CHUTE #1   | CHUTE #2   |
|-------------|--|--|
| SETTING #1  | 1 COIN, 1 CREDIT   | 1 COIN, 1 CREDIT   |
| SETTING #2  | 1 COIN, 2 CREDITS  | 1 COIN, 1 CREDIT   |
| SETTING #3  | 1 COIN, 3 CREDITS  | 1 COIN, 1 CREDIT   |
| SETTING #4  | 1 COIN , 4 CREDITS   | 1 COIN, 1 CREDIT   |
| SETTING #5  | 1 COIN, 5 CREDITS  | 1 COIN, 1 CREDIT   |
| SETTING #6  | 1 COIN, 2 CREDITS  | 1 COIN, 2 CREDITS  |
| SETTING #7  | 1 COIN, 5 CREDITS  | 1 COIN, 2 CREDITS  |
| SETTING #8  | 1 COIN, 3 CREDITS  | 1 COIN, 3 CREDITS  |
| SETTING #9  | 1 COIN, 4 CREDITS  | 1 COIN, 4 CREDITS  |
| SETTING #10 | 1 COIN, 5 CREDITS  | 1 COIN, 5 CREDITS  |
| SETTING #11 | 1 COIN, 6 CREDITS  | 1 COIN, 6 CREDITS  |
| SETTING #12 | 2 COINS, 1 CREDIT  | 2 COINS, 1 CREDIT  |
| SETTING #13 | 1 COIN, 1 CREDIT   | 2 COIN, 1 CREDIT   |
| SETTING #14 | 1 COIN, 2 CREDITS  | 2 COIN, 1 CREDIT   |
| SETTING #15 | 1 COIN, 1 CREDIT<br>2 COINS, 3 CREDITS   | 1 COIN, 1 CREDIT<br>2 COINS, 3 CREDITS   |
| SETTING #16 | 1 COIN, 3 CREDITS  | 1 COIN, 1 CREDIT<br>2 COINS, 3 CREDITS   |
| SETTING #17 | 3 COINS, 1 CREDIT  | 3 COINS, 1 CREDIT  |
| SETTING #18 | 4 COINS, 1 CREDIT  | 4 COINS, 1 CREDIT  |
| SETTING #19 | 1 COIN, 1 CREDIT<br>2 COINS, 2 CREDITS<br>3 COINS, 3 CREDITS<br>4 COINS, 5 CREDITS                       | 1 COIN, 1 CREDIT<br>2 COINS, 2 CREDITS<br>3 COINS, 3 CREDITS<br>4 COINS, 5 CREDITS                       |
| SETTING #20 | 1 COIN, 5 CREDITS  | 1 COIN, 1 CREDIT<br>2 COINS, 2 CREDITS<br>3 COINS, 3 CREDITS<br>4 COINS, 5 CREDITS                       |
| SETTING #21 | 5 COINS, 1 CREDIT  | 5 COINS, 1 CREDIT  |
| SETTING #22 | 1 COIN, 2 CREDITS  | 1 COIN, 1 CREDIT<br>5 COINS, 2 CREDITS   |
| SETTING #23 | 2 COIN, 1 CREDIT<br>4 COIN, 2 CREDITS<br>5 COIN, 3 CREDITS   | 2 COIN, 1 CREDIT<br>4 COIN, 2 CREDITS<br>5 COIN, 3 CREDITS   |
| SETTING #24 | 1 COIN, 3 CREDITS  | 1 COIN, 1 CREDIT<br>4 COIN, 2 CREDITS<br>5 COIN, 3 CREDITS   |
| SETTING #25 | 1 COIN, 1 CREDIT<br>2 COINS, 2 CREDITS<br>3 COINS, 3 CREDITS<br>4 COINS, 4 CREDITS<br>5 COINS, 6 CREDITS | 1 COIN, 1 CREDIT<br>2 COINS, 2 CREDITS<br>3 COINS, 3 CREDITS<br>4 COINS, 4 CREDITS<br>5 COINS, 6 CREDITS |
| SETTING #26 | 1 COIN, 6 CREDITS  | 1 COIN, 1 CREDIT<br>2 COINS, 2 CREDITS<br>3 COINS, 3 CREDITS<br>4 COINS, 4 CREDITS<br>5 COINS, 6 CREDITS |
| SETTING #27 | FREE PLAY  | FREE PLAY  |

[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

## MANUAL SETTINGS



8 - Determines conversion of coin/credit.

9 - This sets how many conversion coins should be inserted to obtain one service coin.

10 - This sets how many conversion coins are represented by a coin inserted in coin chute one.

11 - This sets how many conversion coins are represented by a coin inserted in coin chute two.

|                |                           |
|----------------|---------------------------|
| COIN TO CREDIT | 1 COIN, 1 CREDIT          |
|                | 2 COINS, 1 CREDIT         |
|                | 3 COINS, 1 CREDIT         |
|                | 4 COINS, 1 CREDIT         |
|                | 5 COINS, 1 CREDIT         |
|                | 6 COINS, 1 CREDIT         |
|                | 7 COINS, 1 CREDIT         |
|                | 8 COINS, 1 CREDIT         |
|                | 9 COINS, 1 CREDIT         |
| BONUS ADDER    | NO BONUS ADDER            |
|                | 2 COINS GIVE 1 EXTRA COIN |
|                | 3 COINS GIVE 1 EXTRA COIN |
|                | 4 COINS GIVE 1 EXTRA COIN |
|                | 5 COINS GIVE 1 EXTRA COIN |
|                | 6 COINS GIVE 1 EXTRA COIN |
|                | 7 COINS GIVE 1 EXTRA COIN |
|                | 8 COINS GIVE 1 EXTRA COIN |

|                       |                           |
|-----------------------|---------------------------|
|                       | 9 COINS GIVE 1 EXTRA COIN |
| COIN CHUTE MULTIPLIER | 1 COIN COUNTS AS 1 COIN   |
|                       | 1 COIN COUNTS AS 2 COINS  |
|                       | 1 COIN COUNTS AS 3 COINS  |
|                       | 1 COIN COUNTS AS 4 COINS  |
|                       | 1 COIN COUNTS AS 5 COINS  |
|                       | 1 COIN COUNTS AS 6 COINS  |
|                       | 1 COIN COUNTS AS 7 COINS  |
|                       | 1 COIN COUNTS AS 8 COINS  |
|                       | 1 COIN COUNTS AS 9 COINS  |

---

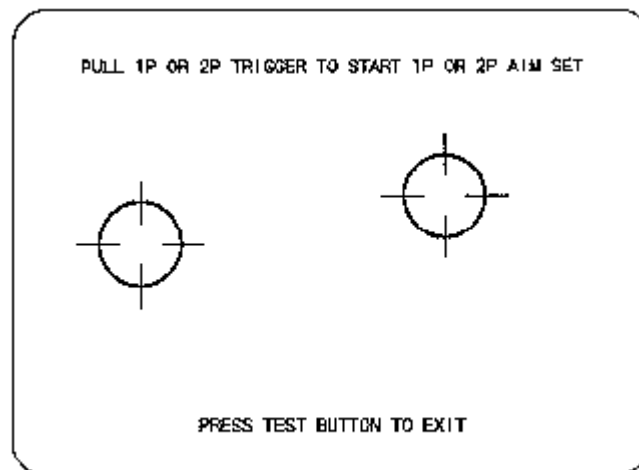
[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## AIM SET / GUN CALIBRATION

---

By adjusting the guns' VR value from the aspect of the software, the sighting position can be set correctly. After VR adjustment and replacement, or game board replacement, but sure to perform Aim Set on this screen.



### Setting Procedure

Pull the 1P (left player) gun trigger one time and release.  
Move the 1P gun fully to all of its mechanical stops (all directions).  
Pull and release the 1P gun trigger again to store the settings.  
Perform the same procedure (steps 1-3) on 2P gun (right player).  
Press the test button to have the menu mode return to the screen.



The above procedure must be performed each time the aim set test is entered to assure proper game play.

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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

## BOOKKEEPING

Selecting the bookkeeping in the menu mode displays the bookkeeping data up to the present on the following two screens.

Press the test button again to proceed to the next screen.

When screen 2/2 is displayed, pressing the test button returns to the menu mode.

```

          BOOKKEEPING 1/2
COIN CHUTE #1          0
COIN CHUTE #2          0
TOTAL COIN             0
COIN CREDIT            0
SERVICE CREDIT        0
TOTAL CREDIT           0
NUMBER OF 1P GAME      0
NUMBER OF 2P GAME      0
NUMBER OF GAME         0
TOTAL TIME              00 00 00
PLAY TIME              00 00 00
AVERAGE PLAY TIME     00 00 00
LONGEST PLAY TIME      00 00 00
SHORTEST PLAY TIME     00 00 00
PRESS TEST BUTTON TO CONTINUE
  
```

```

          BOOKKEEPING 2/2
          TIME HISTOGRAM
00 00 - 00 29S ..... 0
00 30S - 00 59S ..... 0
01 00 - 01 29S ..... 0
01 30S - 01 59S ..... 0
02 00 - 02 29S ..... 0
02 30S - 02 59S ..... 0
03 00 - 03 29S ..... 0
03 30S - 03 59S ..... 0
04 00 - 04 29S ..... 0
04 30S - 04 59S ..... 0
05 00 - 05 29S ..... 0
05 30S - 05 59S ..... 0
06 00 - 06 29S ..... 0
06 30S - 06 59S ..... 0
07 00 - 07 29S ..... 0
07 30S - 07 59S ..... 0
08 00 - 08 29S ..... 0
08 30S - 08 59S ..... 0
09 00 - 09 29S ..... 0
09 30S - 09 59S ..... 0
10 00 - 10 29S ..... 0
PRESS TEST BUTTON TO EXIT
  
```

- COIN CHUTE~ : Number of coins put in. As seen from the front of the cabinet, the right-hand side is #1 and the left-hand side is #2. Note that depending on the destinations, only one Coin Chute is available.
- TOTAL COIN : Total number of coins inserted in each coin chute.
- COIN CREDIT : Number of credits registered by inserting coins.



- SERVICE CREDIT : Credits registered by the SERVICE BUTTON.
- TOTAL CREDIT : Total number of credits (COIN CREDITS + SERVICE CREDITS).
- NUMBER OF 1P GAME : The number of game played by 1P (Left Player).
- NUMBER OF 2P GAME : The number of game played by 2P (Right Player).
- TOTAL TIME : The total energized time.
- TIME HISTOGRAM : By-playtime play frequency.

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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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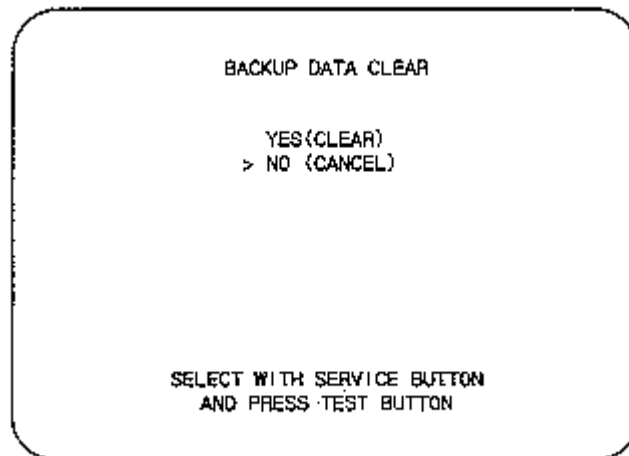
## BACK UP DATA CLEAR

---

Clears the contents of bookkeeping. When clearing, use the service button to bring the arrow (>) to "YES (CLEAR)" and press the test button. When data has been cleared, "COMPLETED" will be displayed.


Bring the arrow to "NO (CANCEL)" and press the test button to return to the menu mode without clearing the data.

Also, note that the game setting contents are not affected by the backup data clear operation.



[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

## CONTROLLER

 In order to prevent an electric shock and short circuit, be sure to turn off power before performing work that requires you to touch the interior of the product.  
**WARNING:** Be careful so as not to damage any wiring. Damaged wiring can cause an electric shock or short circuit accident.

In the test menu, when the controllers VR values cannot be adjusted to the allowable range, it is necessary to adjust the VR installation position or replace the VR. Also, be sure to apply grease to the mechanism every 3 months.

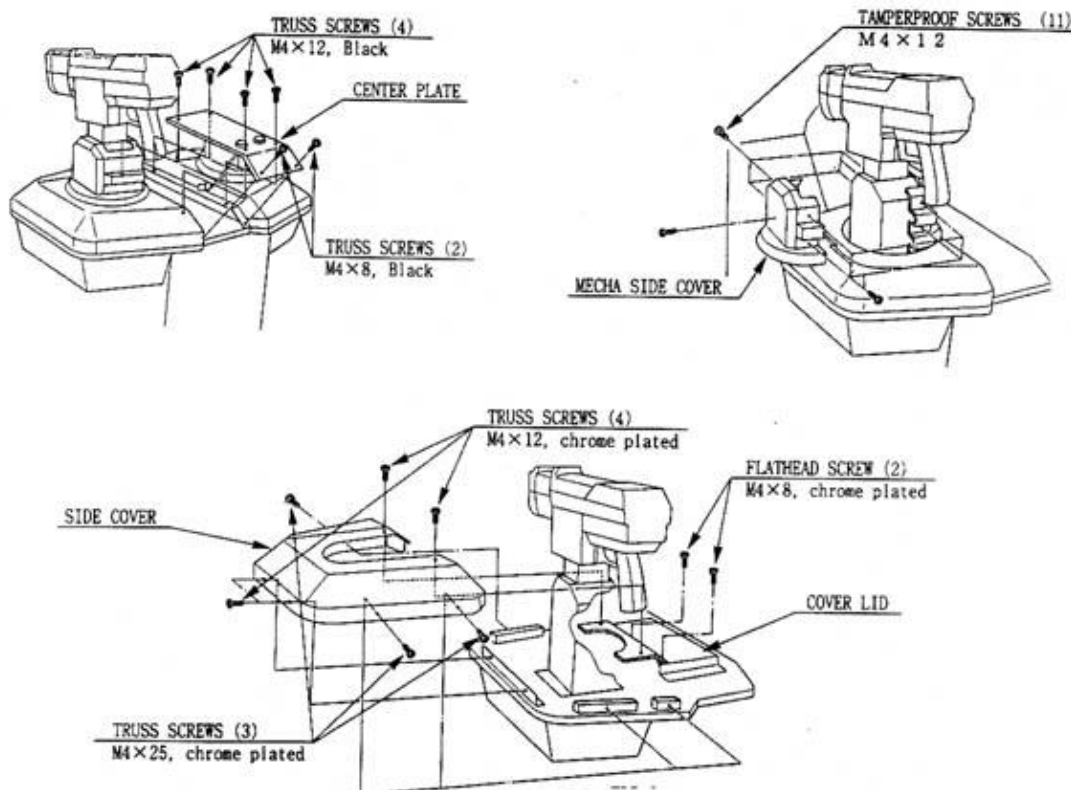
To perform the above-mentioned work, remove the controller from the cabinet.  
 When performing this work, also remove the side cover and mechanism side cover.

### Removing the Side Cover and Mecha Side Cover

By taking off a total of 8 screws, remove the side covers L and R.

By taking off a total of 11 tamperproof screws, remove the mech side cover L and R.

Take off the two screws to remove the Hide Plate.



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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## VR ADJUSTMENT

---



Do not touch places other than those specified. Touching places not specified can cause an electric shock or short circuit.

---

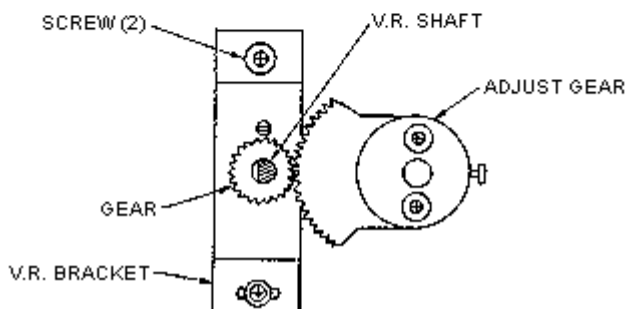
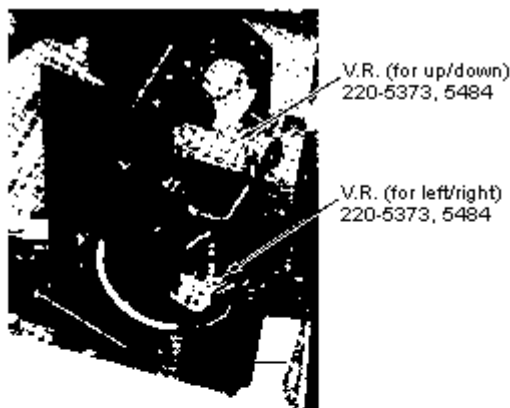
Loosen the 2 screws which secure the VR bracket in order to move the bracket.

Move the VR bracket to disengage the adjust gear mesh and move the VR shaft in a manner so that the VR shaft cut portion faces the opposite side of the adjust gear as shown.

Have the gears meshed and tighten the two screws.

Slowly swing the controller up and down, left and right to check if the value exceeded the VR mobile range.

After finishing adjustments, be sure to set sights on the aim set screen in the test mode.



## VR REPLACEMENT

---



In order to prevent an electric shock and short circuit, be sure to turn off power before performing work by touching the interior parts of the product.

---

By removing the cord clamp, first remove the VR blue 3P for up/down and VR red 3P for left/right. Take off the two screws which secure the VR bracket to remove the bracket.

Remove volume gear from the VR to replace the VR.

After replacing the VR, perform work by following the procedure as per VR adjustment.

[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

## REPLACEMENT OF TRIGGER SW



In order to prevent an electric shock and short circuit be sure to turn off power before performing work which involves touching the interior of the product.  
**WARNING:** Be careful so as not to damage wiring. Damaged wiring can cause an electric shock or short circuit accident.

When the trigger is pulled, if ON is not shown in the trigger display in then test menu input test screen, the micro sw may be malfunctioning. In that case it is necessary to replace the micro sw.

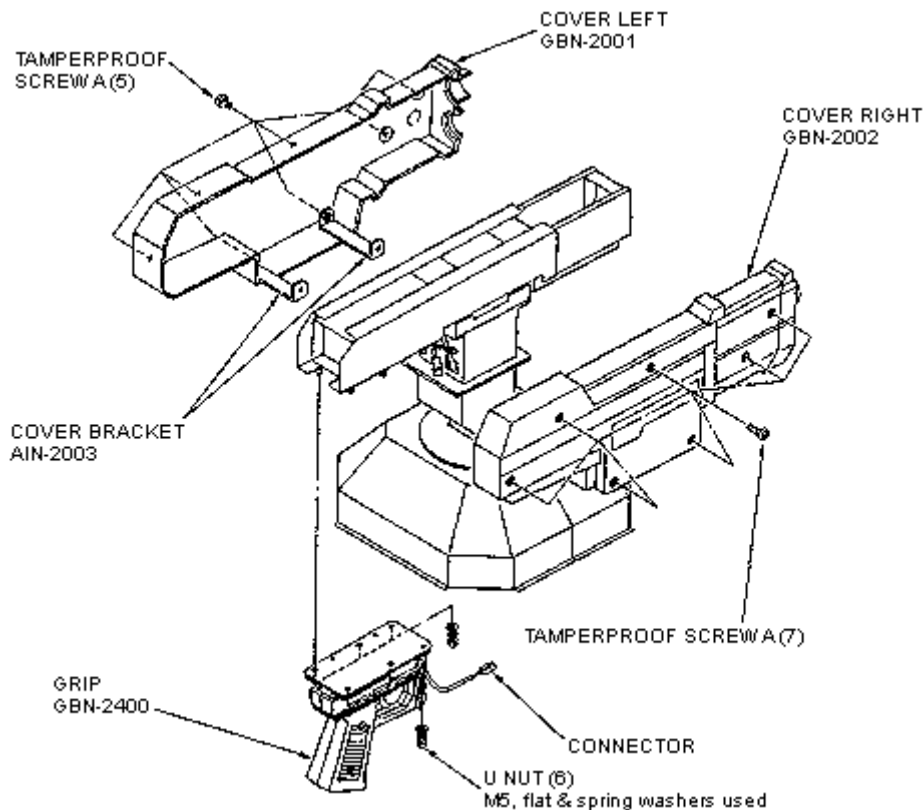
### REMOVING THE GRIP

Take off 7 tamperproof screws A and cover right.

Take off 5 tamperproof screws A and remove the cover left with cover bracket attached to it. Pay attention to the wires attached to the bracket so that they are not damaged.

Disconnect the connector which is connected to the grip.

Remove 6 U nuts to remove the grip.



---

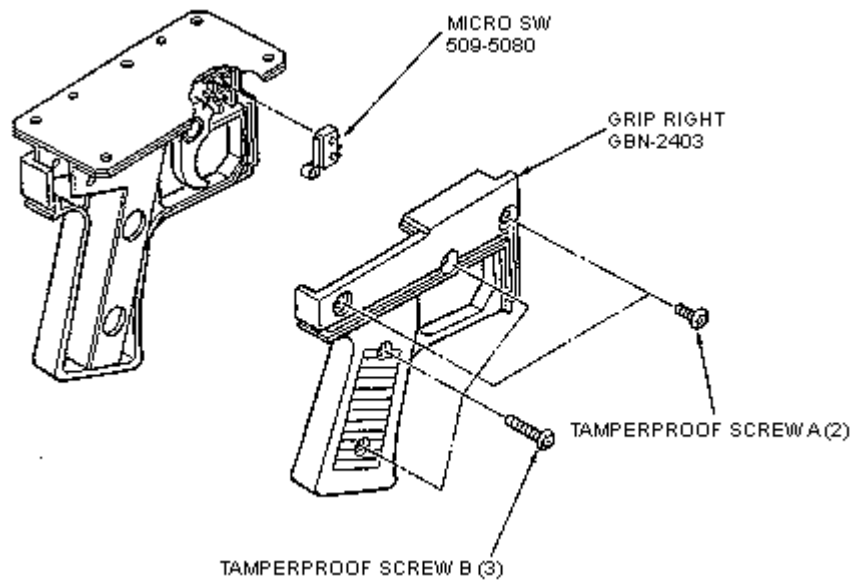
[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## REPLACING THE MICRO SWITCH

---

Take off two tamperproof screws A and 3 tamperproof screws B to remove the Grip Right. In this status, the micro switch can be replaced.



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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## REPLACEMENT OF MOTOR BRUSH

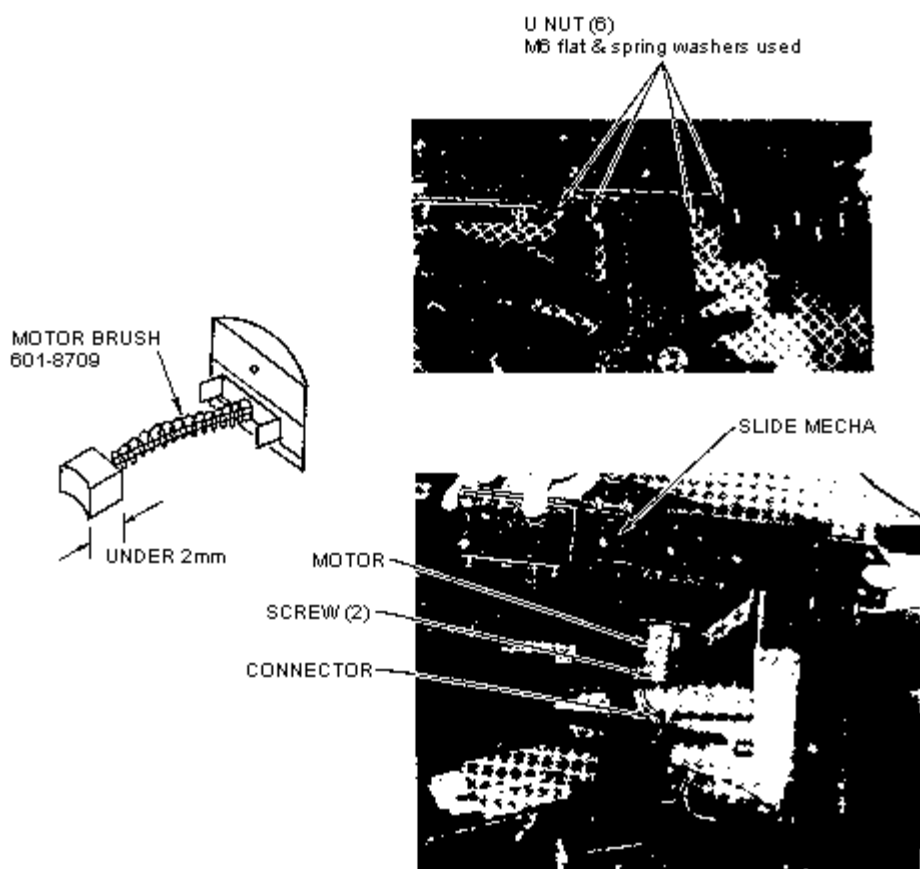
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On the output test screen in the test mode, when 1P gun or 2P gun display indicates ON, if the gun does not vibrate, first check the switch unit's circuit protector. If the circuit protector is satisfactory, check the motor brush.

By referring to the figures below, remove the cover left, cover right and the grip.

Remove a total of 6 U nuts to withdraw the slide mecha. Pay attention to the wirings to remove the connector.

Take off the two screws from the lower part of the motor to remove the brush. If the motor brush is worn away as shown, replace the motor brush. When replacing the brush, be sure to replace brushes for both sides simultaneously.





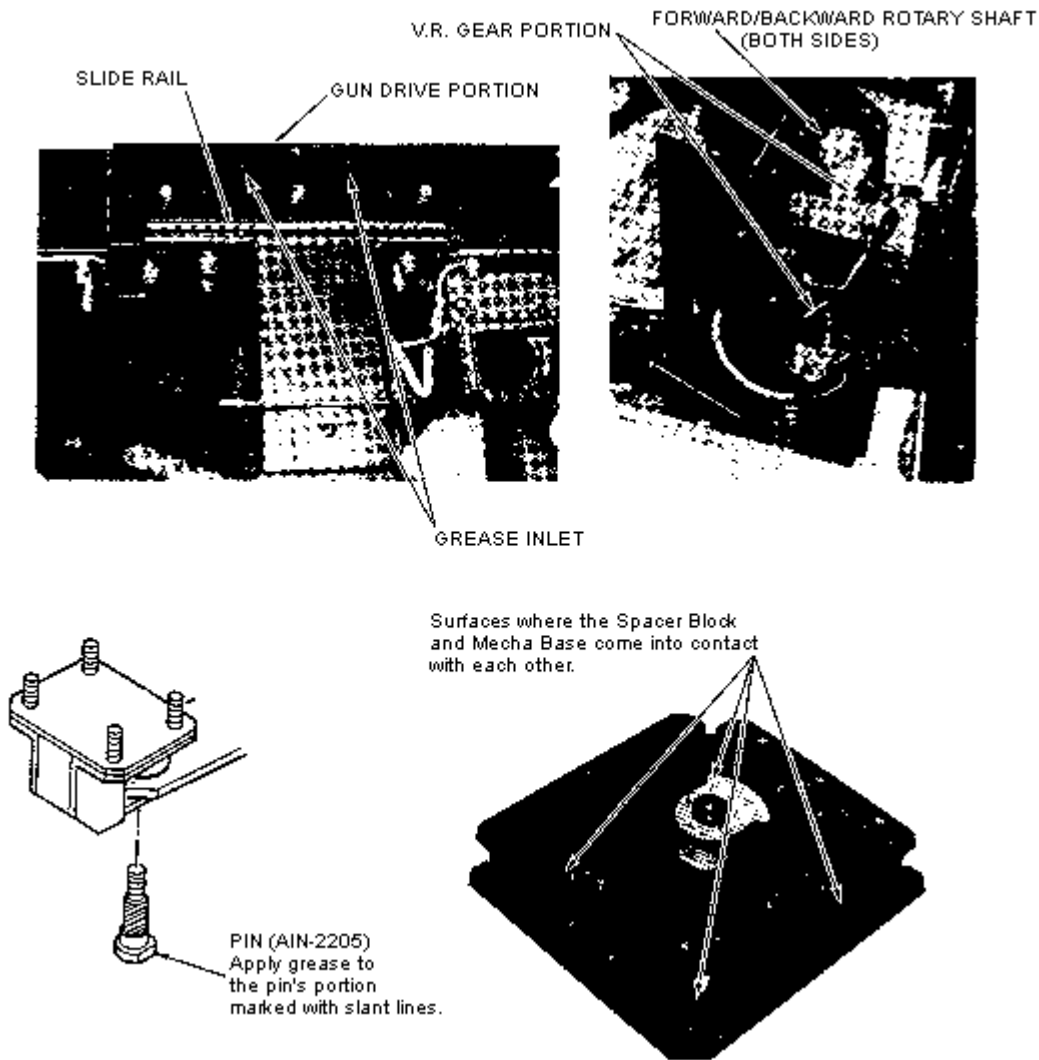
[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

## GREASING



Be sure to apply grease to specified parts as indicated in the periodic maintenance schedule. Failure to apply the proper grease can result in damage to parts.

Once every three months, apply grease to the game mechanisms specified below. Use white lithium or spray grease as indicated.



[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

## COIN SELECTOR

### HANDLING THE COIN JAM

If the coin is not rejected when the REJECT button is pressed, open the coin chute door and open the selector gate. After removing the jammed coin, put a normal coin in and check to see that the selector correctly functions.

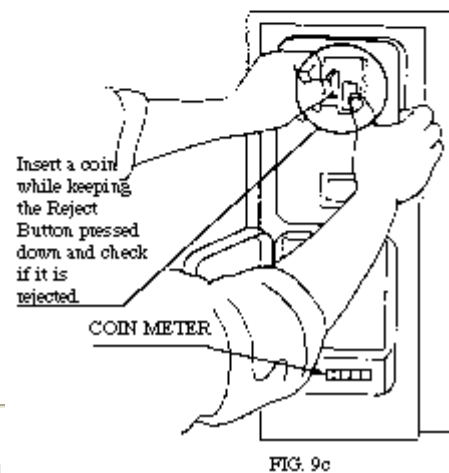
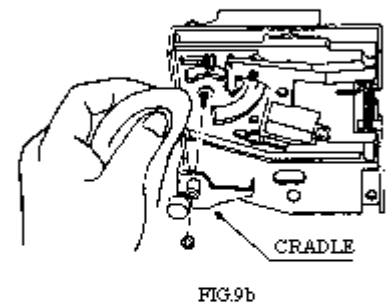
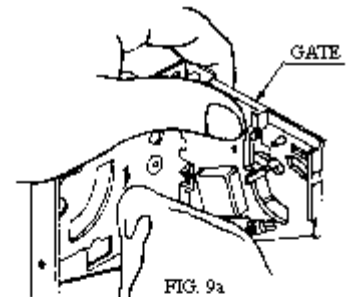
### CLEANING THE COIN SELECTOR

The coin selector should be cleaned once every 3 months. When cleaning, follow the procedure below:

1. Turn the power for the machine OFF. Open the coin chute door.
2. Open the gate and dust off by using a soft brush (made of wool, etc.).
3. Remove and clean smears by using a soft cloth dipped in water or diluted chemical detergent and then squeezed dry.
4. Remove the CRADLE.

When removing the retaining ring (E ring), be very careful so as not to bend the shaft.

5. Remove stain from the shaft and pillow portions by wiping off with a soft cloth, etc.
6. After wiping off as per 5. above, further apply a dry cloth, etc. to cause the coin selector to dry completely.



**IMPORTANT:** Never apply machine oil, etc. to the Coin Selector. After cleaning the Coin Selector, insert a regular coin in the normal working status and ensure that the Selector correctly functions.

### COIN INSERTION TEST

Once every month, when perl the Coin SW Test, simultaneously check the following:

Does the Coin Meter count satisfactorily?

Does the coin drop into the Cashbox correctly?

Is the coin rejected when inserted while keeping the Reject Button pressed down?

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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## CAUTIONS AND WARNINGS CONCERNING SAFETY FOR HANDLING THE MONITORS

---

Before handling the monitors, be sure to read the following explanations and comply with the caution/ warning instructions given below. Note that the caution/warning symbol marks and letters are used in the instructions.




Indicates that handling the monitors erroneously by disregarding this warning may cause a potentially hazardous situation, which could result in death or serious injury.


Indicates that handling the monitors by disregarding this caution may cause a potentially hazardous situation, which could result in personal injury and/or material damage.

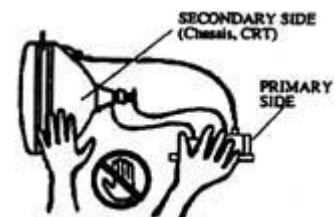
Indicates that access to a specific part of the equipment is forbidden.

Indicates the instruction to disconnect a power connector or plug.

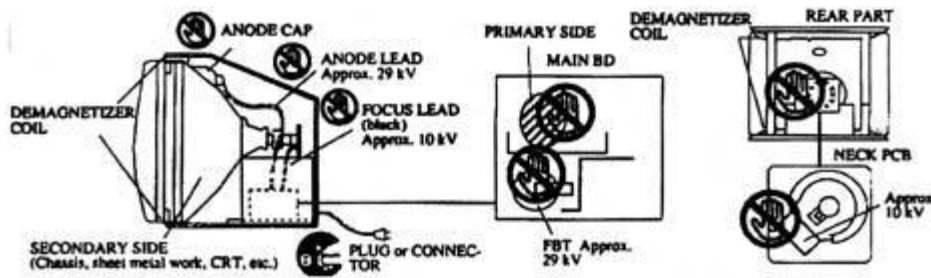
 When performing such work as installing and removing the monitor, inserting and disconnecting the external connectors to and from the monitor and its interior, be sure to disconnect the power connector (plug) before beginning the work. Proceeding the work without following this instruction may result in shock or malfunctioning.

Using the monitor by converting it without obtaining prior permission is not allowed. SEGA shall not be liable for any malfunctioning and accidents caused by this conversion.

 **Primary side and Secondary side** The monitor's circuit, which is divided into the Primary side and Secondary side, is insulated. Do not touch the primary side, and do not touch both sides simultaneously. Not following this instruction can cause a very dangerous shock. When making monitor adjustments, use a non-conductive driver and make adjustments without touching any part other than the Adjustment V.R. and knob. Also, be sure not to cause a short circuit to the Primary side and Secondary side. If short-circuited, it may cause a dangerous shock or malfunctioning.



**High-tension Voltage** Some of the parts inside the monitor are subject to high-tension voltage in excess of 20,000 volts. Therefore, be sure not to touch the monitor's interior. Should soldering, paper wastes, etc. fall into the monitor interior, turn the power off so as not to cause a malfunctioning or fire hazard.



**Connecting the CRT and PCB** For combining the CRT and PCB, use the specified part No. to maintain the status of adjustments made at the factory. The anode of the CRT itself will be accumulatively charged as time elapses, generating dangeous high-tension voltage. The monitor should be used with the Chassis, CRT and PCB. When repair, etc. is required at the time of malfunctioning, be sure to send it in an "as assembled" condition. If these are disassembled, what has been charged with high-tension voltage may be discharged, causing a very hazardous situation. Therefore, under no circumstances should it be disassembled.

**Static Electricity** Touching the CRT surface sometimes causes you to feel slight electricity. This is because the CRT surfaces are subject to static; this will not adversely affect the human body.

**Installation and removal** Ensure that the Magnetizer Coil, FBT (Fly-Back-Transformer), Anode Lead and Focus Lead are not positioned close to the sheet metal work's sharp edges, etc. and avoid damaging the insulated portions so as not to cause shock and malfunctioning. (For the name of parts, refer to the above Figures).

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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## STATIC CONVERGENCE ADJUSTMENT

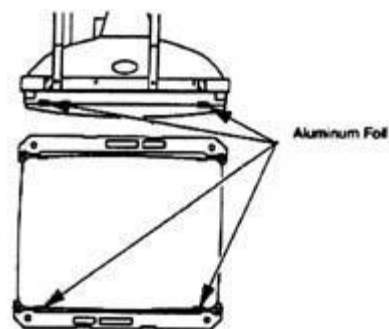
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CAUTION: For the purpose of static prevention, special coating is applied to the CRT face of this product. To protect the coating, pay attention to the following points. Damaging the coating film can cause electric shock to the customers. For the caution to be heeded when cleaning, refer to the corresponding section of Periodic Inspection Table. Do not apply or rub with a hard item (a rod with pointed edge, pen, etc.) to or on the CRT surfaces.

Avoid applying stickers, seals, etc. on the CRT face.

Do not remove aluminum foils from the CRT corners. Removing the aluminum foils can cause static prevention effects to be lowered.



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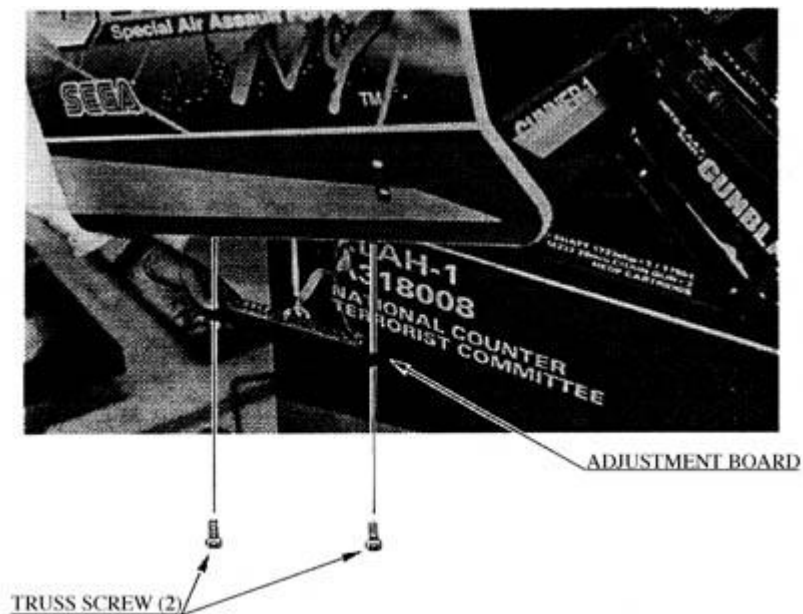
[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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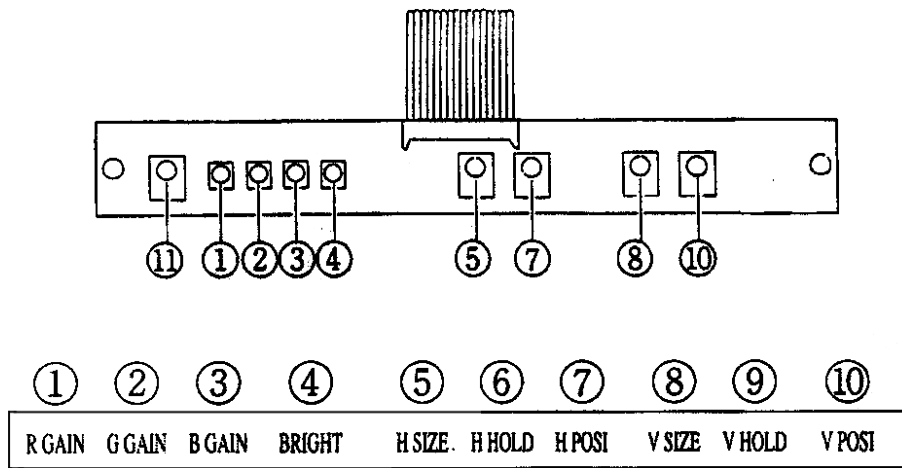
## NANAO MONITOR

---

Monitor adjustments have been made at the time of shipment. Do not make further adjustments without a justifiable reason. Adjusting the monitor and its high tension parts is dangerous. Also, erroneous adjustment can cause deviated synchronization and projection fault, resulting in a malfunction. When making adjustments, use a resinous alignment screwdriver. Servicing with a bare hand or using a conductive tool can cause electric shock.



NANAO monitor: 2 0 0 - 5 2 4 2 - 2 4- O 4 (24K mode)  
2 0 0 - 5 3 8 7 - 2 4



(1) R-GAIN

(2) G-GAIN . . . . . Controls colors.

(3) B-GAIN

(4) BRIGHT . . . . . Controls screen brightness.

(5) H. SIZE . . . . . Controls horizontal screen size.

(6) H. HOLD . . . . . Provides horizontal synchronization, i.e., controls right/left hold.

(7) H. POSI . . . . . Controls horizontal display position on screen.

(8) V. SIZE . . . . . Controls vertical screen size.

(9) V. HOLD . . . . . Provides vertical synchronization, i.e., controls up down hold.

(10) V. POSI . . . . . Controls vertical display position on screen.

(11) CONTRAST . . . . . Adjusts image contrast.



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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## REPLACEMENT OF THE FLUORESCENT LAMP

---



When performing work, be sure to turn power off. Working on the machine with power on can cause an electric shock or short circuit accident.

**WARNING:** The fluorescent lamp, which gets very hot, can cause burns. Be very careful when replacing the fluorescent lamp.

---

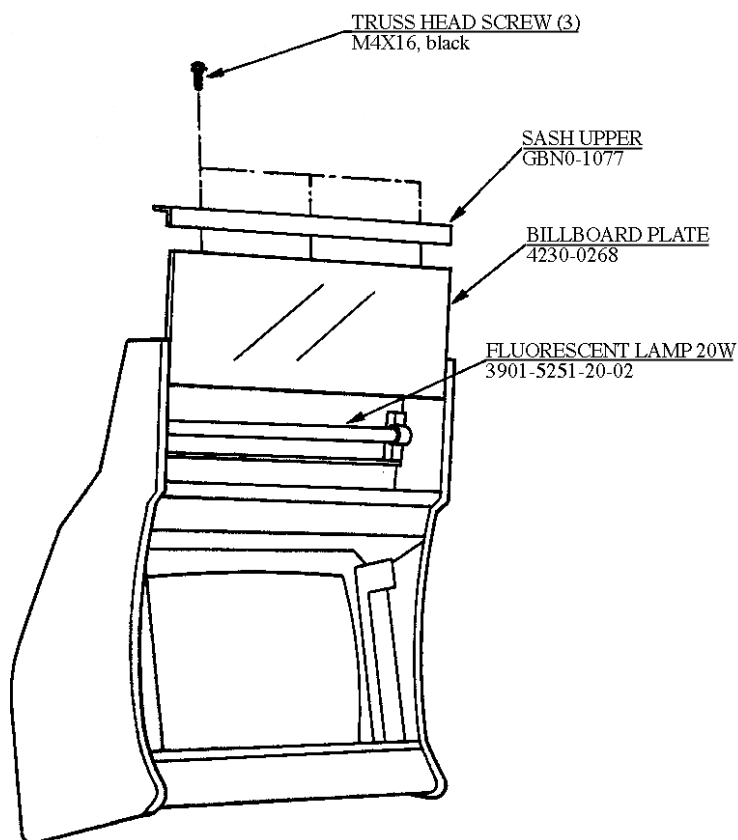


**CAUTION:**

To perform work safely and securely, be sure to prepare a step which is in a secure and stable position. Using an unstable step can cause falls resulting in both personal injury and product damage.

---

Remove the billboard holder and pull the billboard upward to remove and replace the fluorescent lamp.



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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## PERIODIC INSPECTION TABLE

---

The items below require periodic check and maintenance to retain the performance of this machine and ensure safe business operation.

 Be sure to clean the interior of the cabinet and inspect and clean the power supply plug once per year. Using the cabinet with dust accumulated can cause a malfunction or fire. Note that careless cleaning work can cause an accident and therefore, proper attention must be paid to ensure continued safe operation of this product.

---

| ITEMS            | DESCRIPTION             | PERIOD    |
|------------------|-------------------------|-----------|
| Controller       | Lamp Check              | Monthly   |
|                  | Trigger switch Check    | Monthly   |
|                  | Greasing                | Quarterly |
| Coin Chute Tower | Check coin switches     | Monthly   |
|                  | Coin Insertion Test     | Monthly   |
|                  | Coin Selector Cleaning  | Quarterly |
| PTV Monitor      | Check Adjustments       | Monthly   |
|                  | Screen Cleaning         | Weekly    |
| Game Board       | Memory Test             | Monthly   |
|                  | Setting Check           | Monthly   |
| Interior         | Cleaning                | Annually  |
| Cabinet Surfaces | Cleaning                | As needed |
| Power Plug       | Inspection and Cleaning | Annually  |

[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

## TROUBLESHOOTING



In order to prevent an electric shock, be sure to turn power off before performing work and touching the interior of the machine.

**WARNING:** Be careful so as not to damage wiring. Damaged wiring can cause an electric shock or short circuit accident.

For troubleshooting, first check the connection of the wiring connectors.

| PROBLEM  | CAUSE                            | COUNTER MEASURE  |                                 |
|--|----------------------------------|--|---------------------------------|
| When the main SW is turned ON, the machine is not activated. | The cord is not plugged in.      | Firmly insert the plug into the outlet.                        |                                 |
|  | Incorrect power source/voltage.  | Make sure that the power supply voltages are correct.          |                                 |
|  | Primary or secondary fuse blown. | First, remove the cause of overcurrent, then replace the fuse. | Primary Fuse: 7A 250V Fast Blo  |
|  |                                  |  | Secondary Fuse: 5A 250V Slo Blo |
|  |                                  |  | 4A Slo Blo                      |
| 4A Fast Blo  |                                  |  |                                 |

## REPLACEMENT AND ADJUSTMENT OF FUSES



Be sure to use fuses meeting the specified rating. Using fuses exceeding the specified rating can cause a fire or electric shock.

As shown in the figures below, open the side door on the left hand side of the cabinet, and the fuse appears in the positions shown.



The items listed below will assist in troubleshooting when a problem occurs. As a first step, check all wiring connector connections and verify AC power to the machine.

| PROBLEM  | CAUSE   | COUNTER MEASURE  |
|--|---|--|
| During game, projectiles are displayed on the screen, but no action of left/right guns.            | The rectifier board fuse is blown due to an instantaneous overload. | After eliminating the cause of the overload, replace the rectifier board fuse.<br>514-5036-8000 Fuse 6.4oX30<br>8000mA 125V                              |
| MONITOR screen is blackened and the fluorescent lamp does not light up.                            | Primary or secondary fuse blown.                                    | First, remove the cause of overcurrent, then replace the fuse.<br>Primary Fuse: 7A 250V Fast Blo<br>Secondary Fuse: 4A 250V Slo Blo,<br>4A 250V Fast Blo |
| MONITOR screen is all blue.  | Defective connections between boards.                               | Make sure of correct connections between boards.   |
| The color of image on MONITOR screen is incorrect.   | Incorrect monitor adjustment.                                       | Make appropriate adjustments.  |
|  | RGB connections are mixed up.                                       | Reconnect RGB cables correctly.  |
| The on-screen image of the monitor sways or shrinks.   | The power source and voltage are not correct.                       | Make sure that the power supply voltages are correct.  |
| During game play, controller sighting is irregular.  | Aim set is incorrect.   | Perform Aim set.   |
|  | VR malfunction.   | Replace the VR.  |
|  | Poor mesh of adjust gear.   | Adjust ADJUST GEAR mesh.   |
| During game play, when controller's trigger is pulled, no projectiles are displayed on the screen. | SW malfunctioning.  | Replace SW.  |
| During game play, projectiles are  | The projector malfunctioned due to an instantaneous                 | Eliminate the cause of the overcurrent, restore the SW unit circuit breaker to its original  |

|   |   |   |
|---|---|---|
| displayed on the screen but no action from one of the two guns. | overcurrent.                            | condition.                                  |
|   | The motor brushes are worn out.         | Replace motor brushes.                      |
| Marquee lamp doesn't light up.                                  | Fluorescent lamp needs replacement.     | Replace lamp.                               |
|   | The connector is disconnected.          | Check connector connections in the marquee. |
|   | Primary fuse is blown.                  | Replace fuse.                               |
| Sound is not emitted.   | Sound volume adjustment is not correct. | Adjust the service panel volume.            |

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[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

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## GAME BOARD

---



In order to prevent an electric shock, be sure to turn power off before performing work and touching interior parts of the machine.

Be careful so as not to damage wiring and cause an electric shock or short circuit.

---



Do not expose the game board without good reason. In this product, setting changes are made during the test mode. The game board need not be operated. Use the game board as is, with the settings made at the time of shipment.

---

### TAKING OUT THE IC BOARD

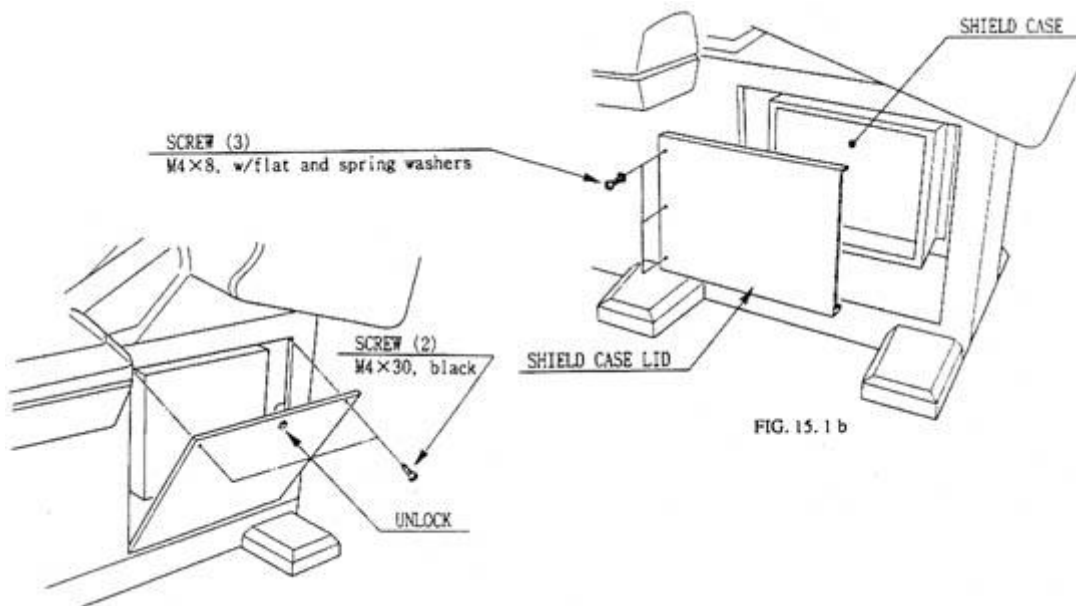
When replacing the IC board (Game board) take out the IC board by using the following procedure.

Turn the main switch off.

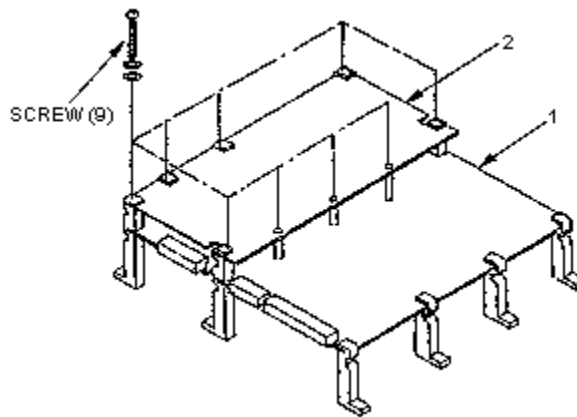
The shield case is inside the side door on the right side of the cabinet. Unlocking the door can cause the side door to open due to its weight. To avoid injury and to prevent damaging the door, etc., be sure to hold the door while unlocking. Carefully open the door. The door has a stopper to prevent it from opening in excess of 90 degrees.

Take off the 3 screws to remove the case lid. The game board is contained in the shield case.

Take off the 3 screws to remove Case Lid. The Game Board is contained in the Shield Case.



**COMPOSITION OF GAME BOARD**  
 Game Board Gun Blade NY (833-12562)

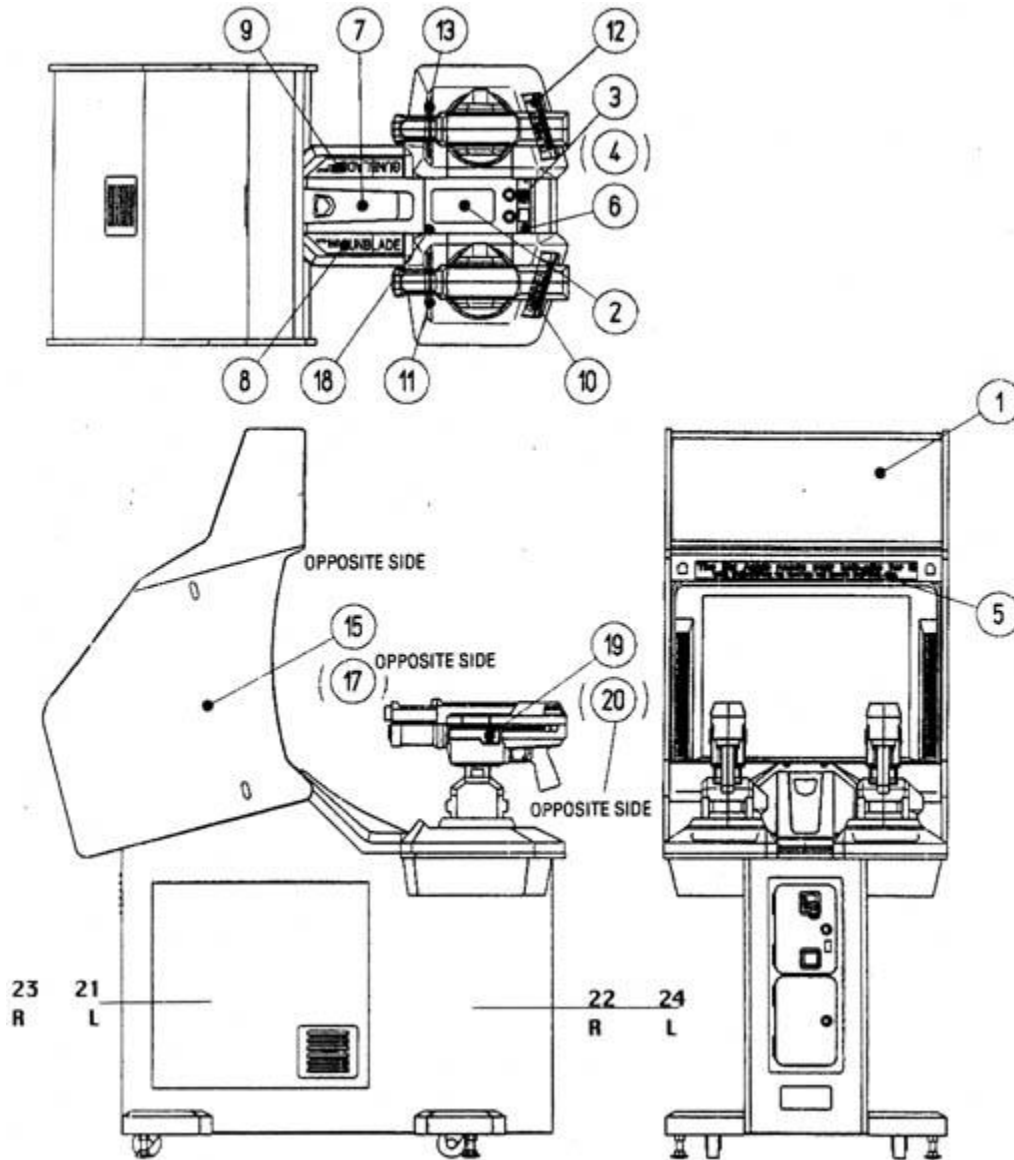


| No. | PART No.        | DESCRIPTION               |
|-----|-----------------|---------------------------|
| (1) | 837-10854-02-91 | MODEL2 B- CRX MAIN BD COM |
|     | 837-12312-91    | B-CRX MAIN BD COM REV 1.1 |
| (2) | 834-12563       | ROM BD GUNBLADE NY        |

[\[Table of Contents\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

## DESIGN RELATED PARTS

For the Warning Display sickers, refer to Section 1.



| NO. | PART NO.     | DESCRIPTION              |
|-----|--------------|--------------------------|
| 1   | 4230-0268    | BILLBOARD                |
| 2   | 4220-0574-01 | PLAY INSTR SH GBN SD ENG |
| 3   | 4210-7907~   | DENOMI SHT ~             |
| 4   | 4210-7907~   | DENOMI SHT ~             |



|    |             |                           |
|----|-------------|---------------------------|
| 5  | GBN0-0005   | STICKER MONITOR MASK      |
| 6  | GBN0-0006   | DENOMI PLATE              |
| 7  | GBN-1050-B  | STICKER CENTER COVER      |
| 8  | GBN-1050-C  | STICKER CENTER COVER L    |
| 9  | GBN-1050-D  | STICKER CENTER COVER      |
| 10 | GBN-1051-B  | STICKER SIDE COVER L      |
| 11 | GBN-1051-C  | STICKER SIDE COVER L TO P |
| 12 | GBN-1052-B  | STICKER SIDE COVER R      |
| 13 | GBN-1052-C  | STICKER SIDE COVER R TO P |
| 15 | GBNN-00607  | DECAL, LEFT MAIN CABINET  |
| 17 | GBNN-00608  | DECAL, RIGHT MAIN CABINET |
| 18 | GBN0-0003-B | CENTER SHEET              |
| 19 | GBN-2005    | GUN DESIGN PLATE L        |
| 20 | GBN-2006    | GUN DESIGN PLATE R        |
| 21 | 999-0561    | DOOR LEFT                 |
| 22 | 999-0565    | SIDE LOWER LEFT           |
| 23 | 999-0562    | DOOR RIGHT                |
| 24 | 999-0564    | SIDE LOWER RIGHT          |

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[\[Table of Contents\]](#) [\[Previous Page\]](#)

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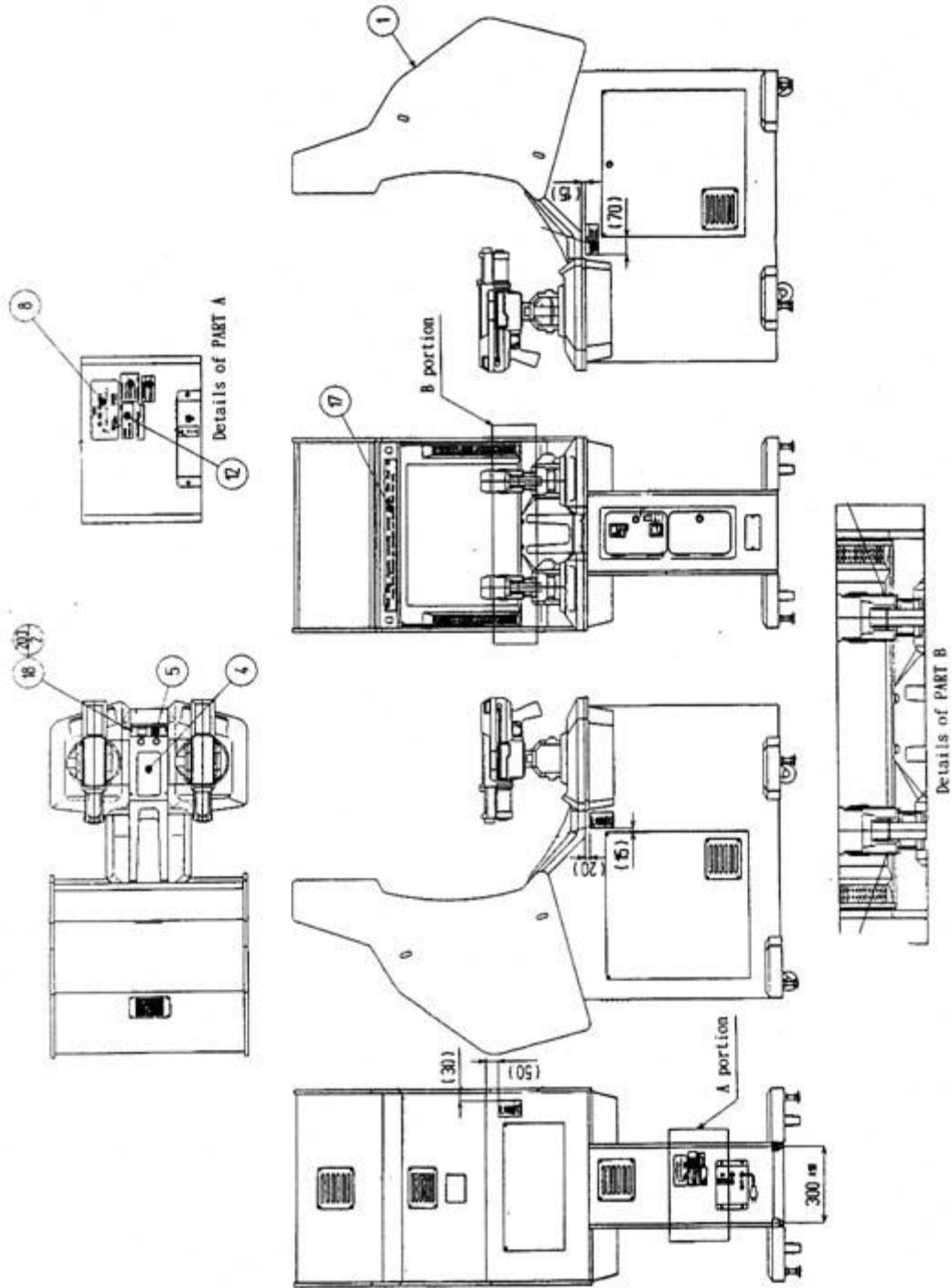
## PARTS INDEX

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|      | <b>ASSEMBLY</b>                                   | <b>PAGE</b> |
|------|---|-------------|
| (1)  | <a href="#">TOP ASSY GUNBLADE NY U/R</a>          | 42          |
| (2)  | <a href="#">ASSY CABINET U/R (GBN-10001)</a>      | 43          |
| (3)  | <a href="#">ASSY MONITOR (GBN-1070)</a>           | 44          |
| (4)  | <a href="#">ASSY SUB CABI MONITOR (GBN0-1071)</a> | 45          |
| (5)  | <a href="#">ASSY SPEAKER L (GBN-1090)</a>         | 46          |
| (6)  | <a href="#">ASSY SPEAKER R (GBN-1095)</a>         | 47          |
| (7)  | <a href="#">ASSY CABINET LOWER (GBN-1500)</a>     | 48          |
| (8)  | <a href="#">ASSY MAIN BD (GBN-0100)</a>           | 49          |
| (9)  | <a href="#">ASSY SUB CABINET LOWER (GBN-1501)</a> | 50          |
| (10) | <a href="#">ASSY WOOFER (GBN-1550)</a>            | 51          |
| (11) | <a href="#">AC UNIT (GBN1-1530)</a>               | 52          |
| (12) | <a href="#">SW UNIT / COIN METER (AIN1-1022)</a>  | 53          |
| (13) | <a href="#">ASSY START SWITCH (GBN-1560)</a>      | 54          |
| (14) | <a href="#">ASSY CONTROLLER (GBN1-2000)</a>       | 55          |
| (15) | <a href="#">ASSY SLIDE MECHA (GBN1-2050)</a>      | 56          |
| (16) | <a href="#">ASSY MOTOR (GBN1-2070)</a>            | 57          |
| (17) | <a href="#">ASSY SWING BASE U/R (GBN-2300)</a>    | 58          |
| (18) | <a href="#">ASSY BASE (GBN-2150)</a>              | 59          |
| (19) | <a href="#">ASSY VOLUME U/D (GBN-2200)</a>        | 60          |
| (20) | <a href="#">ASSY VOLUME L/R (GBN-2250)</a>        | 61          |
| (21) | <a href="#">ASSY GRIP (GBN-2400)</a>              | 62          |
| (22) | <a href="#">ASSY AC PWR SPLY (GBN-4200)</a>       | 63          |
| (23) | <a href="#">ASSY ELEC BASE (GBN-4300)</a>         | 64          |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Next Page\]](#)

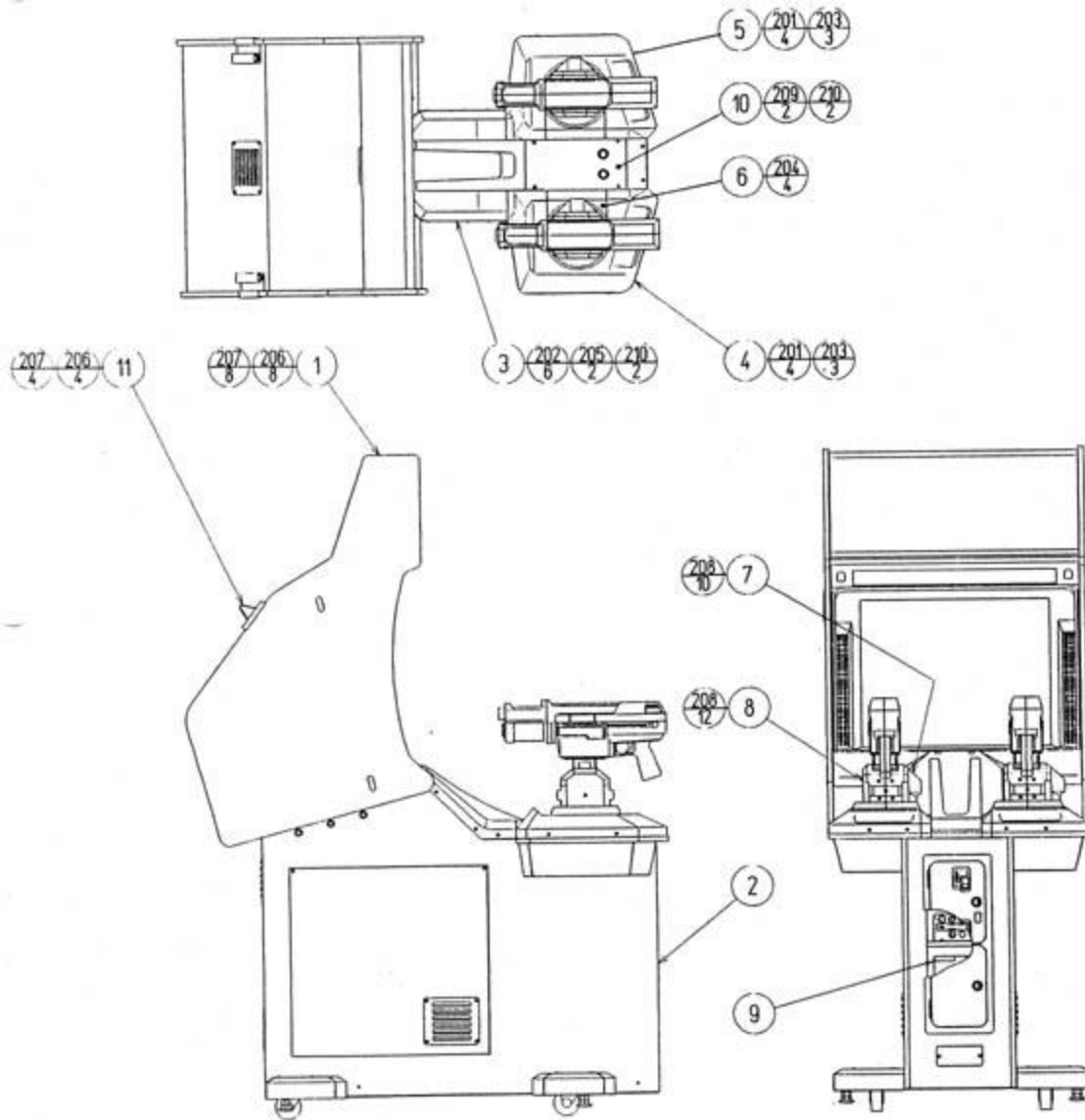
**(1) TOP ASSY GUNBLADE NY U/R**



| ITEM NO. | PART NO.     | DESCRIPTION                          | NOTE |
|----------|--------------|--------------------------------------|------|
| 1        | GBN0-10001   | ASSY CABINET U/R                     |      |
| 4        | 4220-0574-01 | PLAY INSTR SH GBN U/R ENG            |      |
| 5        | 4210-7907--~ | DENOMI SH~                           |      |
| 8        | STW-00081    | UL/FCC LABEL                         |      |
| 12       | STW-00082    | STICKER SERIAL NUMBER                |      |
| 17       | GBN1-0005    | STICKER MONITOR MAS                  |      |
| 18       | GBN1-0006    | DENOMI PLATE                         |      |
| 402      | 4200-6216-03 | OWNERS MNL GUNBLADE NY U/R EN        |      |
| 409      | 4540-0006-01 | WRENCH FOR TAMP PRF SCR DUAL TYPE M4 |      |
| 410      | 540-0007-01  | WRENCH FOR TAMP PRF SCR DUAL TYPE M5 |      |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

**(2) ASSY CABINET U/R (GBN-10001)**

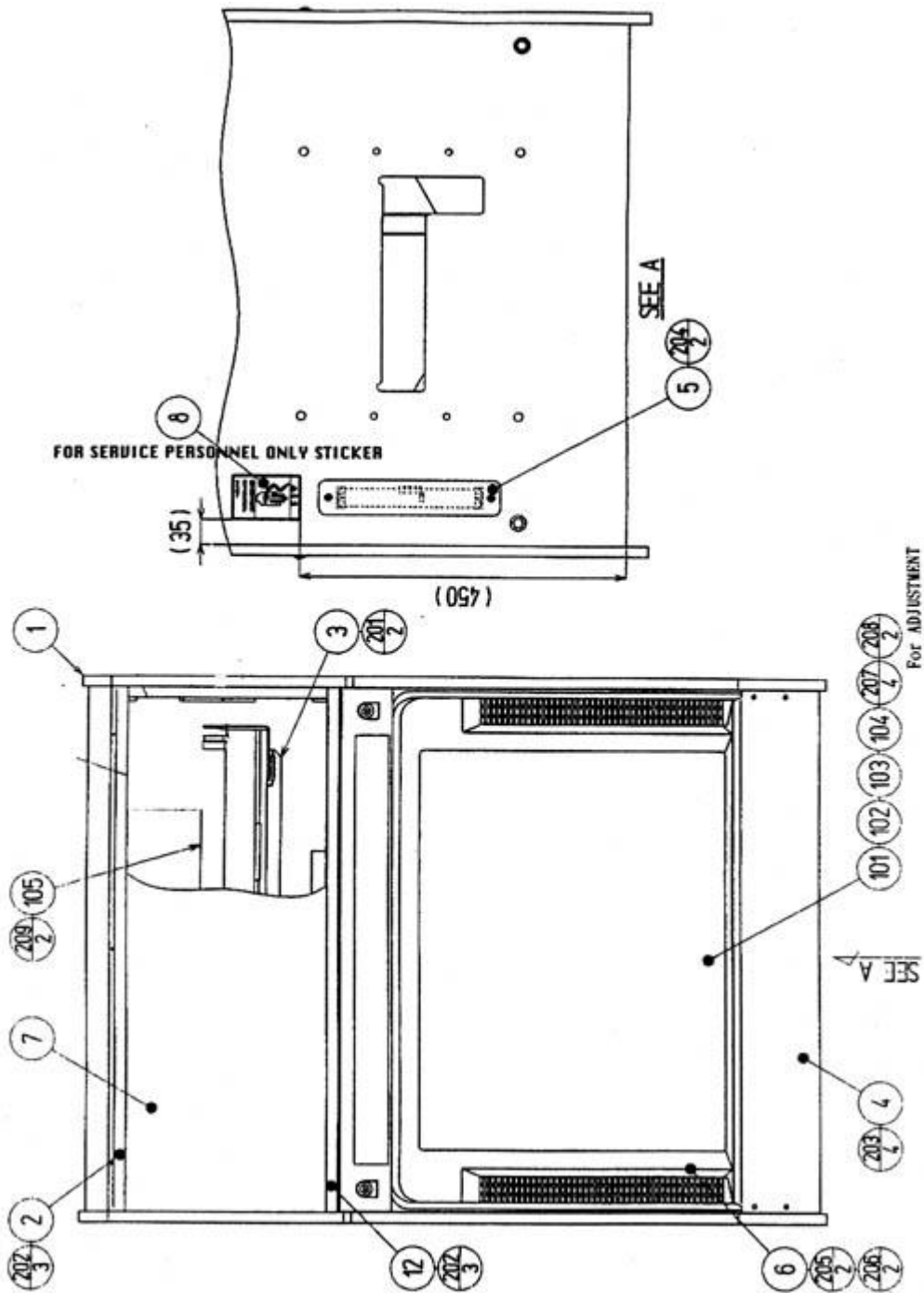


| ITEM NO. | PART NO. | DESCRIPTION        | NOTE |
|----------|----------|--------------------|------|
| 1        | GBN-1070 | ASSY MONITOR       |      |
| 2        | GBN-1500 | ASSY CABINET LOWER |      |
| 3        | GBN-1050 | CENTER COVER       |      |
| 4        | GBN-1051 | SIDE COVER L       |      |
| 5        | GBN-1052 | SIDE COVER R       |      |

|     |               |                          |  |
|-----|---------------|--------------------------|--|
| 6   | GBN-1053      | COVER LID                |  |
| 7   | GBN-2003      | MECHA SIDE COVER L       |  |
| 8   | GBN-2004      | MECHA SIDE COVER R       |  |
| 9   | 253-5366      | CASH BOX                 |  |
| 10  | GBN-1560      | ASSY START SWITCH        |  |
| 11  | BVG-0033      | SHIPPING BRKT S          |  |
| 201 | 000-T00412-OC | M SCR TH CRM M4X12       |  |
| 202 | 000-T00416-OC | M SCR TH CRM M4X 16      |  |
| 203 | 000-T00425-OC | M SCR TH CRM M4X25       |  |
| 204 | 000-F00408    | M SCR FH M4X8            |  |
| 205 | 068-441616-OB | FLT WSHR BLK 4.4-16X1.6  |  |
| 206 | 030-000830-SB | HEX BLT W/S BLK M8x30    |  |
| 207 | 060-F00800-OB | FLT WSHR BLK M8          |  |
| 208 | 008-T00412-OB | TMP PRF SCR TH BLK M4X12 |  |
| 209 | 000-T00408-OB | M SCR TH BLK M4X8        |  |
| 210 | 000-T00412-OB | M SCR TH BLK M4X12       |  |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

**(3) ASSY MONITOR (GBN-1070)**



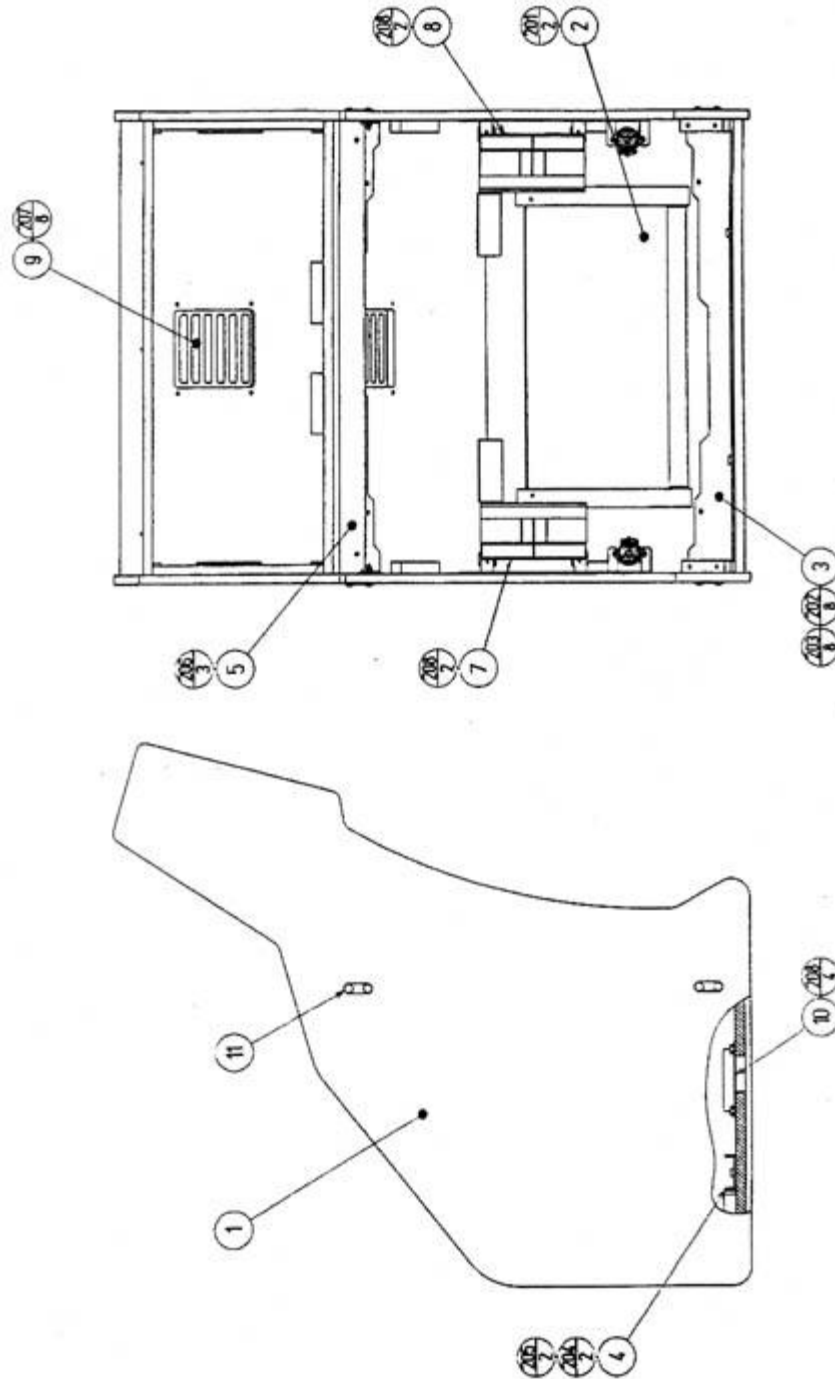
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|----------|----------|-------------|------|
|----------|----------|-------------|------|

|     |               |                                |  |
|-----|---------------|--------------------------------|--|
| 1   | GBN0-1071     | ASSY SUB CABI MONITOR          |  |
| 2   | GBN0-1077     | SASH UPPER                     |  |
| 3   | GBN-1079      | FL BRKT                        |  |
| 4   | GBN0-1080     | MASK HOLDER                    |  |
| 5   | GBN0-1081     | ADJUST PANEL                   |  |
| 6   | TTR-1067      | MONITOR MASK                   |  |
| 7   | 4230-0268     | BILLBOARD PLATE GBN U/R        |  |
| 8   | GNRC-00587    | STICKER SERVICE PERSONNEL ONLY |  |
| 9   | GBN0-1080-B   | STICKER MASK HOLDER            |  |
| 12  | GBN-1078      | SASH LOWER                     |  |
| 101 | 2000-5387-24  | ASSY CLR DSPL 29 NANA0 120 V   |  |
| 102 | 2800-5112     | BUSH FOR TV                    |  |
| 103 | 2800-5113     | COLLAR FOR TV                  |  |
| 104 | 2800-5114     | SPACER 6. 4-25 X 2             |  |
| 201 | 011-T03512    | TAP SCRTH 3.5X12               |  |
| 202 | 000-T00416-OB | M SCR TH BLK M4X16             |  |
| 203 | 000-T00425-OB | M SCR TH BLK M4X25             |  |
| 204 | 000-T00420-OB | M SCRTH BLK M4X20              |  |
| 205 | 000-T00530-OB | M SCR TH BLK M5x30             |  |
| 206 | 068-552016-OB | FLT WSHR BLK 5. 5-20 X 1. 6    |  |
| 207 | 050-F00600    | FLG NUT M6                     |  |
| 208 | 000-P00305-W  | M SCR PH W/FS M3X8             |  |
| 209 | 000-P00416-W  | M SCR PH W/FS M4X 16           |  |



[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

**(4) ASSY SUB CABI MONITOR (GBN0-1071)**

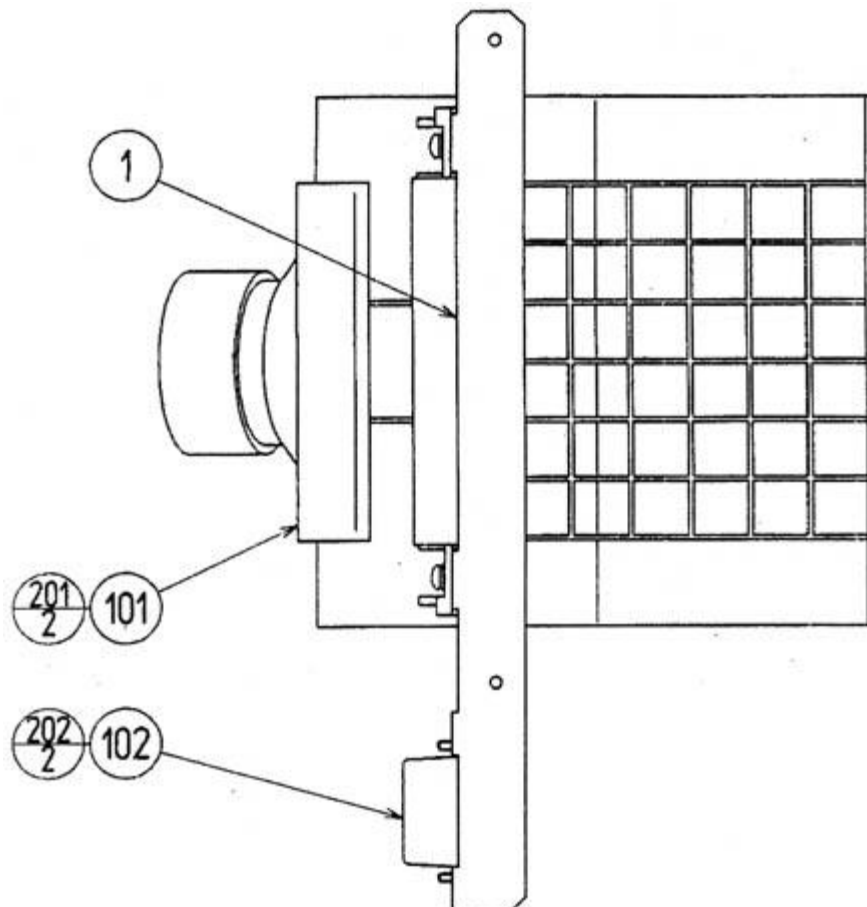


| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|----------|----------|-------------|------|
|----------|----------|-------------|------|

|     |               |                             |  |
|-----|---------------|-----------------------------|--|
| 1   | GBN1-1072     | MONITOR BOX                 |  |
| 2   | GBN0-1073     | BACK DOOR                   |  |
| 3   | GBN1-1074     | MONITOR SUPPORT             |  |
| 4   | GBN0-1075     | JOINT BEAM                  |  |
| 5   | GBN1-1076     | MASK SUPPORT                |  |
| 7   | GBN-1090      | ASSY SPEAKER L              |  |
| 8   | GBN-1095      | ASSY SPEAKER R              |  |
| 9   | UP1-1018      | AIR VENT                    |  |
| 10  | TTR0-1008     | NUT PLATE 2-M8              |  |
| 11  | 1171 -5235    | PLATE 6-30                  |  |
| 101 | 280-0419      | HARNESS LUG                 |  |
| 102 | 280-5009      | CORD CLAMP 021              |  |
| 103 | 280-5275-SR10 | CORD CLAMP SR10             |  |
| 201 | 000-T00430-OB | M SCRTH BLK M4X30           |  |
| 202 | 031-000630-OC | CRG BLTCRM M6x 30           |  |
| 203 | 050-F00600    | FLG NUT M6                  |  |
| 204 | 030-000830-SB | HEX BLT W/S BLK M8X30       |  |
| 205 | 068-852216-OB | FLT WSHR BLK 8. 5-22 X 1. 6 |  |
| 206 | 000-P00416-W  | M SCR PH W/FS M4 X 16       |  |
| 207 | 000-T00416-OB | M SCR TH BLK M4X16          |  |
| 208 | 011 -T03512   | TAP SCR TH 3. 5X12          |  |
| 209 | 011 -F00310   | TAP SCR FH 3X10             |  |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

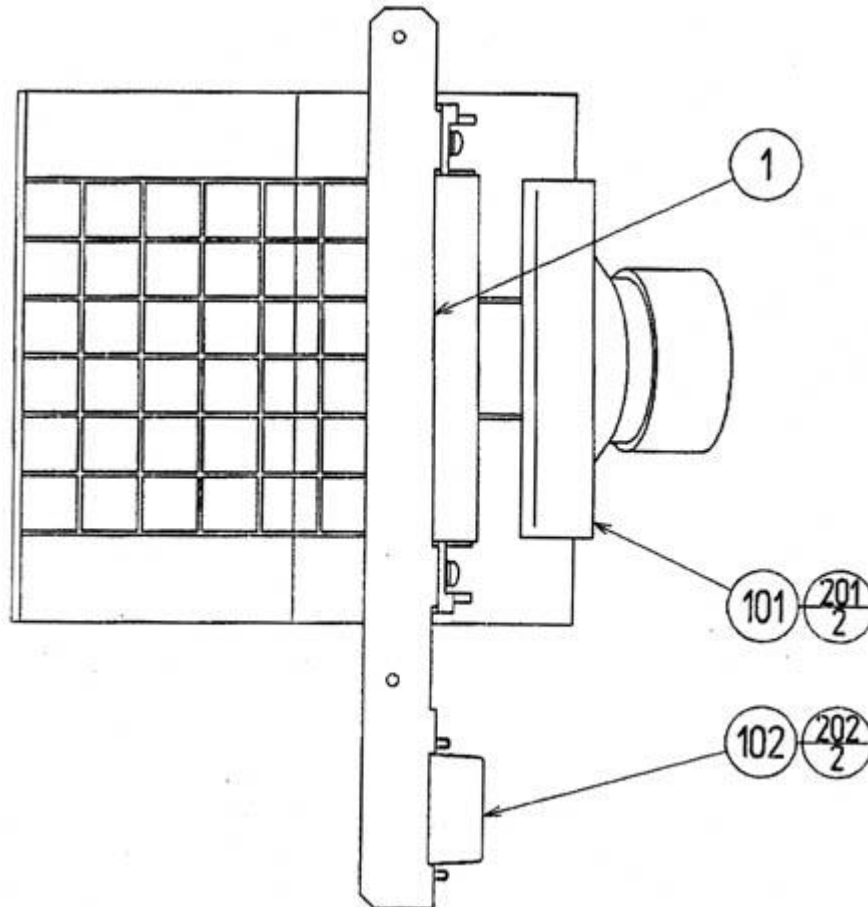
**(5) ASSY SPEAKER L (GBN-1090)**



| ITEM NO. | PART NO.     | DESCRIPTION                  | NOTE |
|----------|--------------|------------------------------|------|
| 1        | GBN1-1091    | SP BRKT L                    |      |
| 101      | 130-5152     | SPEAKER BOX MINI DOME<br>12W |      |
| 102      | 130-5112     | TWEETER 8 OHM 2W ø 35        |      |
| 201      | 000-P00412-W | M SCR PH W/FS M4X12          |      |
| 202      | 000-P00308-W | M SCR PH W/FS M3X8           |      |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

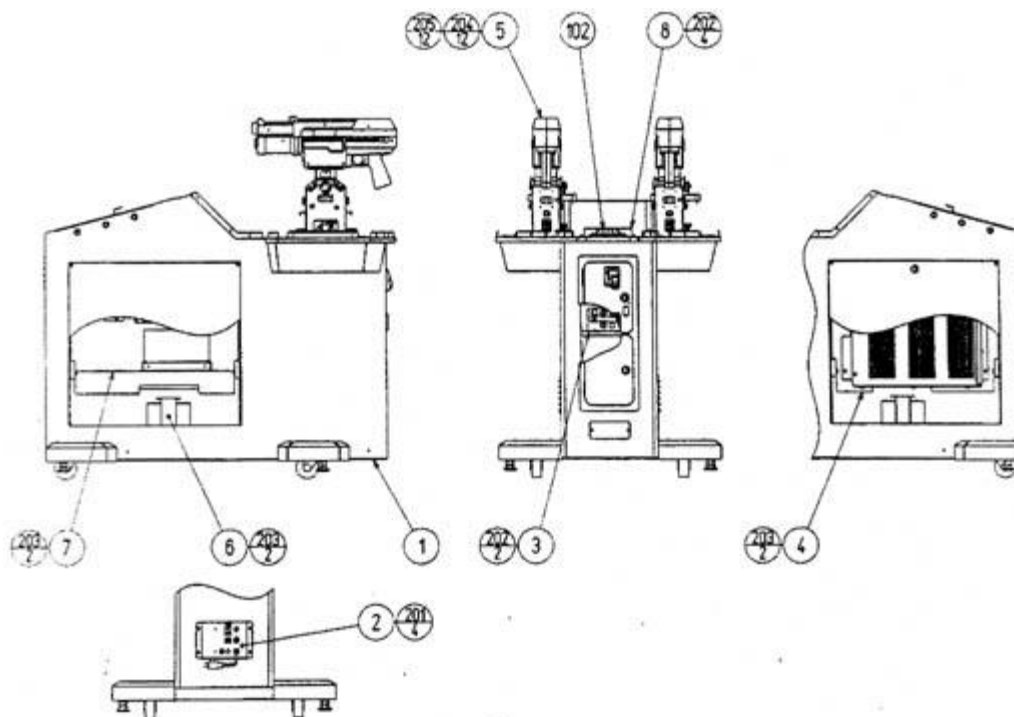
**(6) ASSY SPEAKER R (GBN-1095)**



| ITEM NO. | PART NO.     | DESCRIPTION               | NOTE |
|----------|--------------|---------------------------|------|
| 1        | GBN1-1096    | SP BRKT R                 |      |
| 101      | 130-5152     | SPEAKER BOX MINI DOME 12W |      |
| 102      | 130-5112     | TWEETER 8 OHM 2W o 35     |      |
| 201      | 000-P00412-W | M SCR PH W/FS M4X12       |      |
| 202      | 000-P00308-W | M SCR PH W/FS M3X8        |      |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

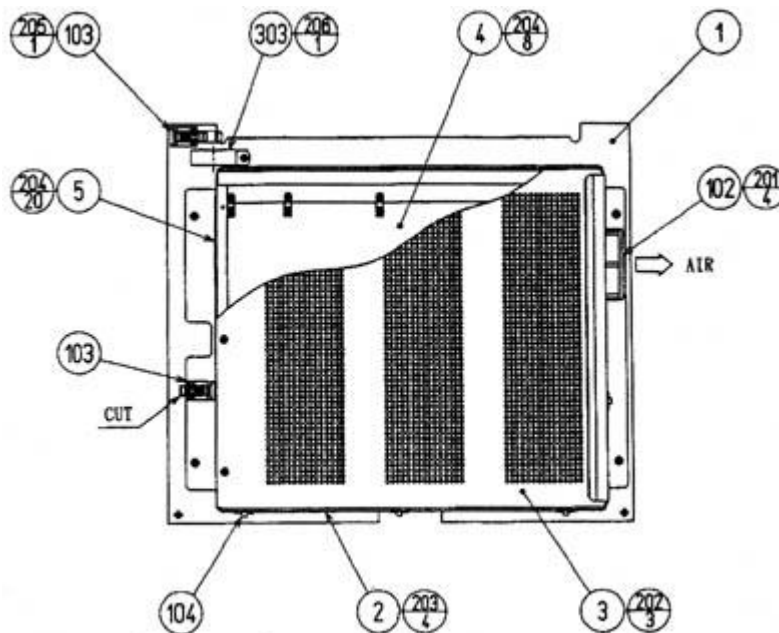
**(7) ASSY CABINET LOWER (GBN-1500)**



| ITEM NO. | PART NO.      | DESCRIPTION            | NOTE |
|----------|---------------|------------------------|------|
| 1        | GBN1-1501     | ASSY SUB CABINET LOWER |      |
| 2        | GBN1-1530     | AC UNIT                |      |
| 3        | GBN1-1540     | SW UNIT                |      |
| 4        | GBN0-0200     | ASSY MAIN BD           |      |
| 5        | GBN1-20001    | ASSY CONTROLLER U/R    |      |
| 6        | GBN14200      | ASSY AC PWR SPLY       |      |
| 7        | GBN 1 4300    | ASSY ELEC BASE         |      |
| 8        | GBN1-1054     | MOUNT BRKT             |      |
| 102      | 601-5526-110  | BUSH 1.6T              |      |
| 201      | 000-T00416-OB | M SCR TH BLK M4X16     |      |
| 202      | 000-P00416-W  | M SCR PH W/FS M4X16    |      |
| 203      | 000-P00530-W  | M SCR PH W/FS M5X30    |      |
| 204      | 030-000830-S  | HEX BLT W/S M8X30      |      |
| 205      | 060-F00800    | FLT WSHR M8            |      |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

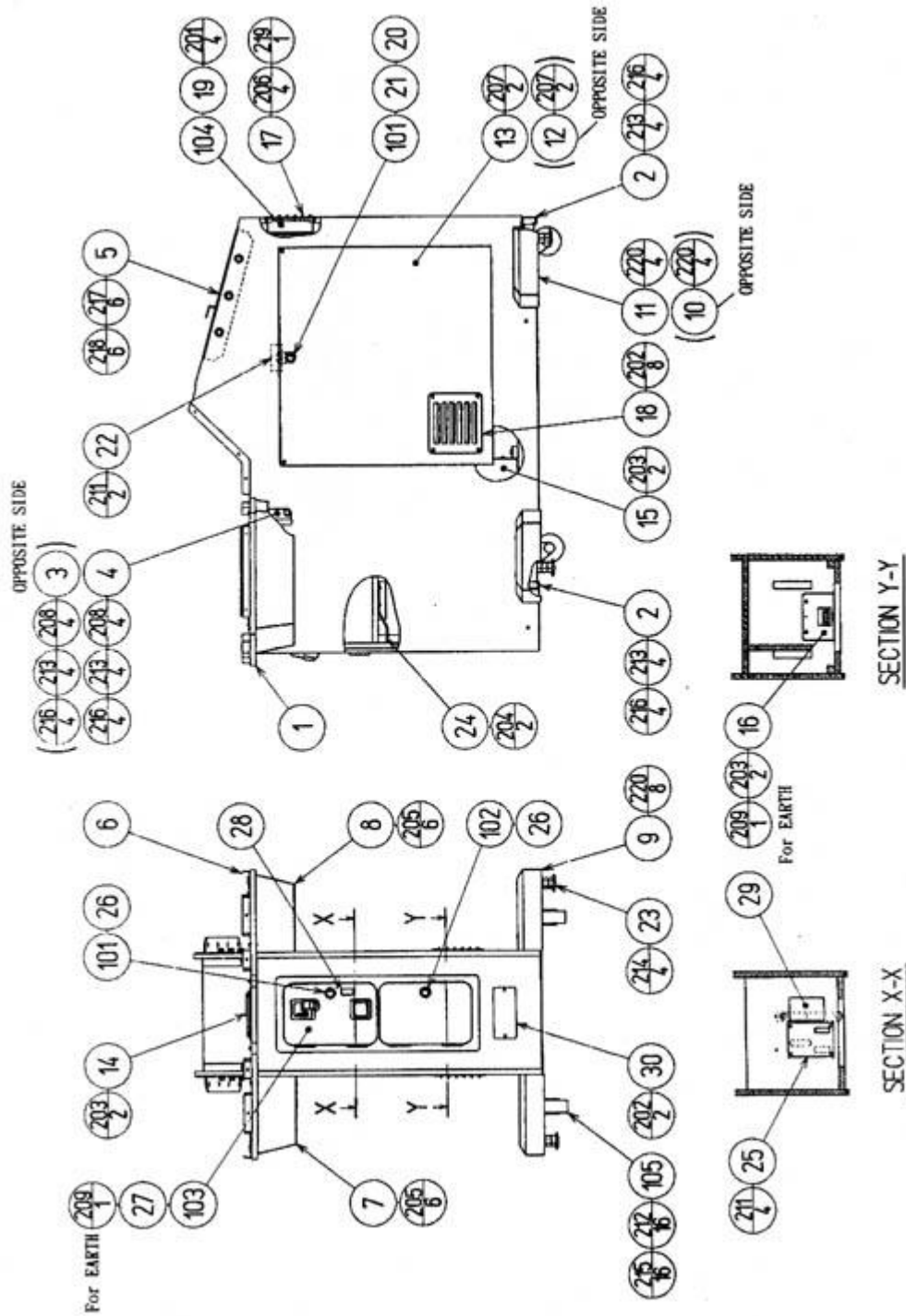
**(8) ASSY MAIN BD (GBN-0100)**



| ITEM NO. | PART NO.     | DESCRIPTION            | NOTE |
|----------|--------------|------------------------|------|
| 1        | GBN0-0201    | WOODEN BASE MAIN BD    |      |
| 2        | 1050-5218    | SHIELD CASE            |      |
| 3        | 1050-5219-91 | SHIELD CASE LID        |      |
| 4        | 833-12562    | GAME BD GUNBLADE NY    |      |
| 5        | 839-0778     | FLT BD B-CRX RCT       |      |
| 102      | 2601-0055    | FAN MOTOR DC5V         |      |
| 201      | 000-P00330-W | M SCR PH W/FS M3X30    |      |
| 202      | 000-P00408-W | M SCR PH W/FS M4X8     |      |
| 203      | 000-P00412-W | M SCR PH W/FS M4X 12   |      |
| 204      | 010-P00308-F | S-TITF SCR PH W/F M3X8 |      |
| 205      | O11-F00310   | TAP SCR FH 3X10        |      |
| 206      | O11-T03512   | TAP SCR TH 3.5X12      |      |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

**(9) ASSY SUB CABINET LOWER (GBN-1501)**



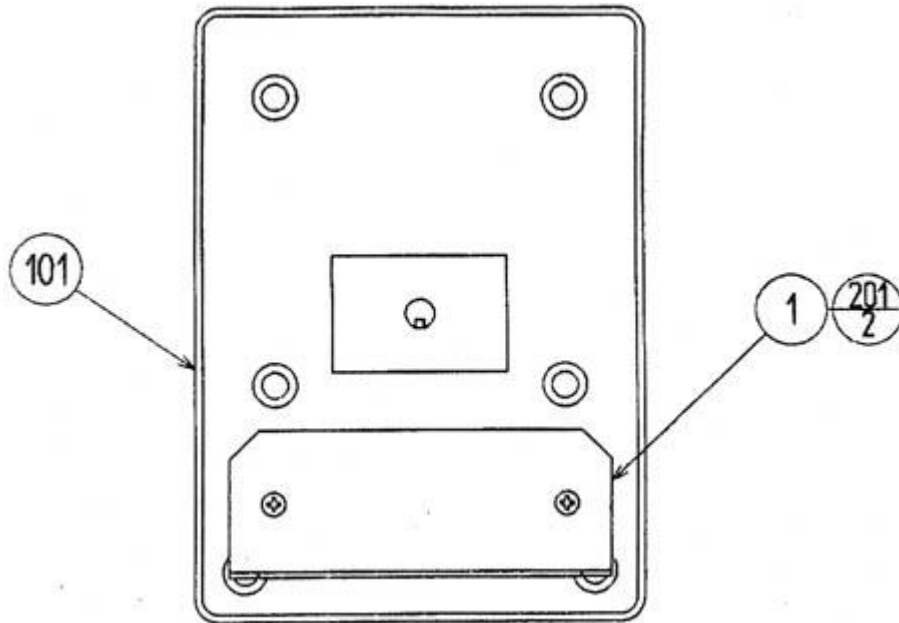
| ITEM NO. | PART NO.      | DESCRIPTION                | NOTE |
|----------|---------------|----------------------------|------|
| 1        | GBN1 -1502    | WOODEN CABI U/R            |      |
| 2        | GBN1-1503     | FOOT BASE                  |      |
| 3        | GBN1-1504     | MECHA SUPPORT L            |      |
| 4        | GBN1-1505     | MECHA SUPPORT R            |      |
| 5        | GBN1-1506     | JOINT BASE                 |      |
| 6        | GBN1-1507     | COVER BRKT                 |      |
| 7        | GBN1 -1508    | MECHA COVER L              |      |
| 8        | GBN1-1509     | MECHA COVER R              |      |
| 9        | GBN1-1510     | FOOT COVER F               |      |
| 10       | GBN1-1511     | FOOT COVER L               |      |
| 11       | GBN1-1512     | FOOT COVER R               |      |
| 12       | GBN1-1513     | SIDE DOOR L                |      |
| 13       | GBN1-1514     | SIDE DOOR R                |      |
| 14       | GBN1-1515     | CENTER BRKT                |      |
| 15       | GBN-1550      | ASSY WOOFER                |      |
| 16       | 6101-0395-01  | METER UNIT S               |      |
| 17       | UP1-1018      | AIR VENT                   |      |
| 18       | 1051-5239-03  | AIR VENT                   |      |
| 19       | HN -1042X     | FAN BRKT                   |      |
| 23       | 6011-5699X    | LEG ADJUSTER BOLT          |      |
| 30       | GBN1-1020     | SPEAKER NET                |      |
| 104      | 2601-0011-02  | AXIAL FLOW FAN AC120V 60HZ |      |
| 105      | 6011-6224     | CASTER 0 75                |      |
| 106      | 3101-5029-F20 | SUMITUBE F F20MM           |      |
| 201      | 000-P00312-W  | M SCR PH W/FS M3X 12       |      |
| 202      | 000-T00416    | M SCR TH CRM M4X 16        |      |
| 203      | 000-P00416-W  | M SCR PH W/FS M4X16        |      |
| 204      | 000-P00420-W  | M SCR PH W/FS M4X20        |      |
| 205      | 000-P0042S-W  | M SCR PH W/FS M4X25        |      |
| 206      | 000-T00425-OB | M SCR TH BLK M4X25         |      |
| 207      | 000-T00430-OB | M SCR TH BLK M4X30         |      |
| 208      | 000-P00525-W  | M SCR PH W/FS M5X25        |      |
| 209      | 010-P00406-F  | S-TITE SCR PH W/F M4X6     |      |
| 210      | 011-F00310    | TAP SCR FH 3X10            |      |
| 211      | 011-T03512    | TAP SCR TH 3. 5X12         |      |
| 212      | 030-000616-S  | HEX BLT W/S M6 X 16        |      |
| 213      | 030-000830-S  | HEX BLT W/S M8x30          |      |
| 214      | 050-H01600    | HEX NUT M16                |      |
| 215      | 060-F00600    | FLT WSHR M6                |      |
| 216      | 060-F00800    | FLT WSHR M8                |      |



|     |               |                                |  |
|-----|---------------|--------------------------------|--|
| 217 | 030-000830-SB | HEX BLT W/S BLK M8x30          |  |
| 218 | 068-852216-OB | FLT WSHR BLK 8. 5-22 X 1. 6    |  |
| 219 | 050-F00400    | FLG NUT M4                     |  |
| 220 | 000-T00408-OB | M SCR TH BLK M4X 8             |  |
| 301 | 600-6720-18   | WIRE HARN FAN MOTOR            |  |
| 302 | 600-6720-19   | WIRe HARN AC EXT               |  |
| 303 | 600-6720-20   | WIRE HARN SPEAKER EXT          |  |
| 304 | 600-6720-21   | WIRE HARN MARS EXT             |  |
| 306 | 600-6720-23   | WIRE HARN A/D EXT              |  |
| 307 | 600-6720-24   | WIRE HARN GUN MOTOR EXT        |  |
| 308 | 600-6720-25   | WIRE HARN VOLUME EXT           |  |
| 309 | 600-6720-26   | WIRE HARN 1/01 EXT             |  |
| 310 | 600-6720-27   | WIRE HARN DEMAG EXT            |  |
| 311 | 600-6720-28   | WIRE HARN 1/02 EXT             |  |
| 312 | 600-6720-37   | WIRE HARN RGB EXT              |  |
| 313 | 600-6720-41   | WIRE HARN EARTH MAIN           |  |
| 314 | 600-6720-42   | WIRE HARN EARTH METER          |  |
| 315 | 600-6709-52   | WIRE HARN EARTH 400MM          |  |
| 316 | 600-6709-54   | WIRE HARN EARTH 150MM          |  |
| 317 | 600-6720-43   | WIRE HARN EARTH MECHA COVER L  |  |
| 318 | 600-6455-01   | WIRE HARN COIN CHUTE DOOR TWIN |  |
| 319 | 600-6720-48   | WIRE HARN EARTH 100MM          |  |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

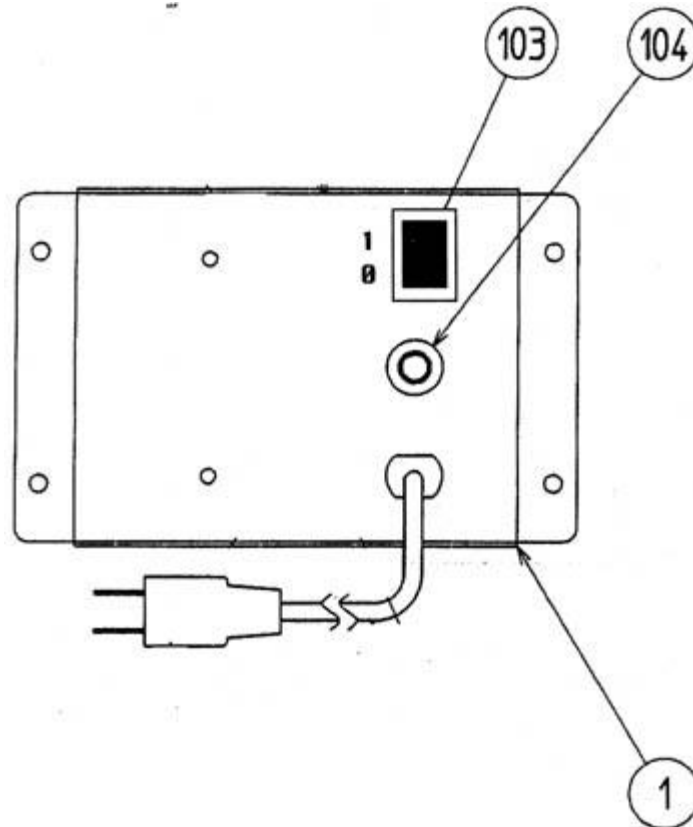
**(10) ASSY WOOFER (GBN-1550)**



| ITEM NO. | PART NO.   | DESCRIPTION            | NOTE |
|----------|------------|------------------------|------|
| 1        | GBN-1551   | WOOFER BRKT            |      |
| 101      | 130-5155   | SPEAKER BOX SUB WOOFER |      |
| 201      | 012-P00412 | TAP SCR PH 4X12        |      |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

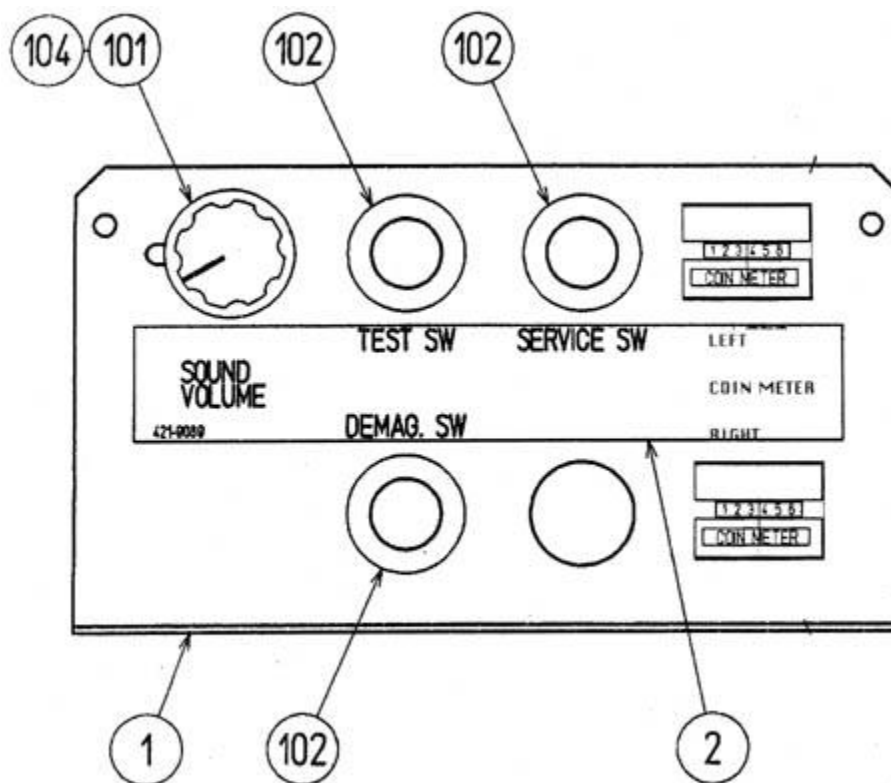
## (11) AC UNIT (GBN1-1530)



| ITEM NO. | PART NO.       | DESCRIPTION   | NOTE |
|----------|----------------|---------------|------|
| 1        | GBN1-1531      | AC BRKT       |      |
| 103      | 5091-5234      | SW ROCKER 25A |      |
| 104      | 5121-5033-8000 | FUSE 250V 7A  |      |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

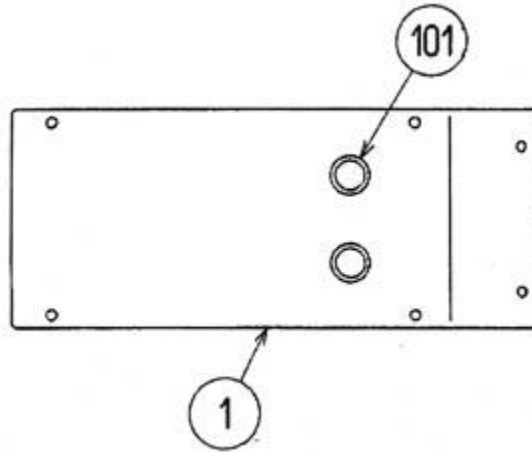
## (12) SW UNIT / COIN METER (AIN1-1022)



| ITEM NO. | PART NO.  | DESCRIPTION       | NOTE |
|----------|-----------|-------------------|------|
| 1        | AIN1-1022 | SW BRKT           |      |
| 2        | 4211-9089 | STICKER SW UNIT   |      |
| 101      | 2201-5179 | VOL CONT B-5K OHM |      |
| 102      | 5091-5028 | SW PB 1M          |      |
| 104      | 6011-0042 | KNOB              |      |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

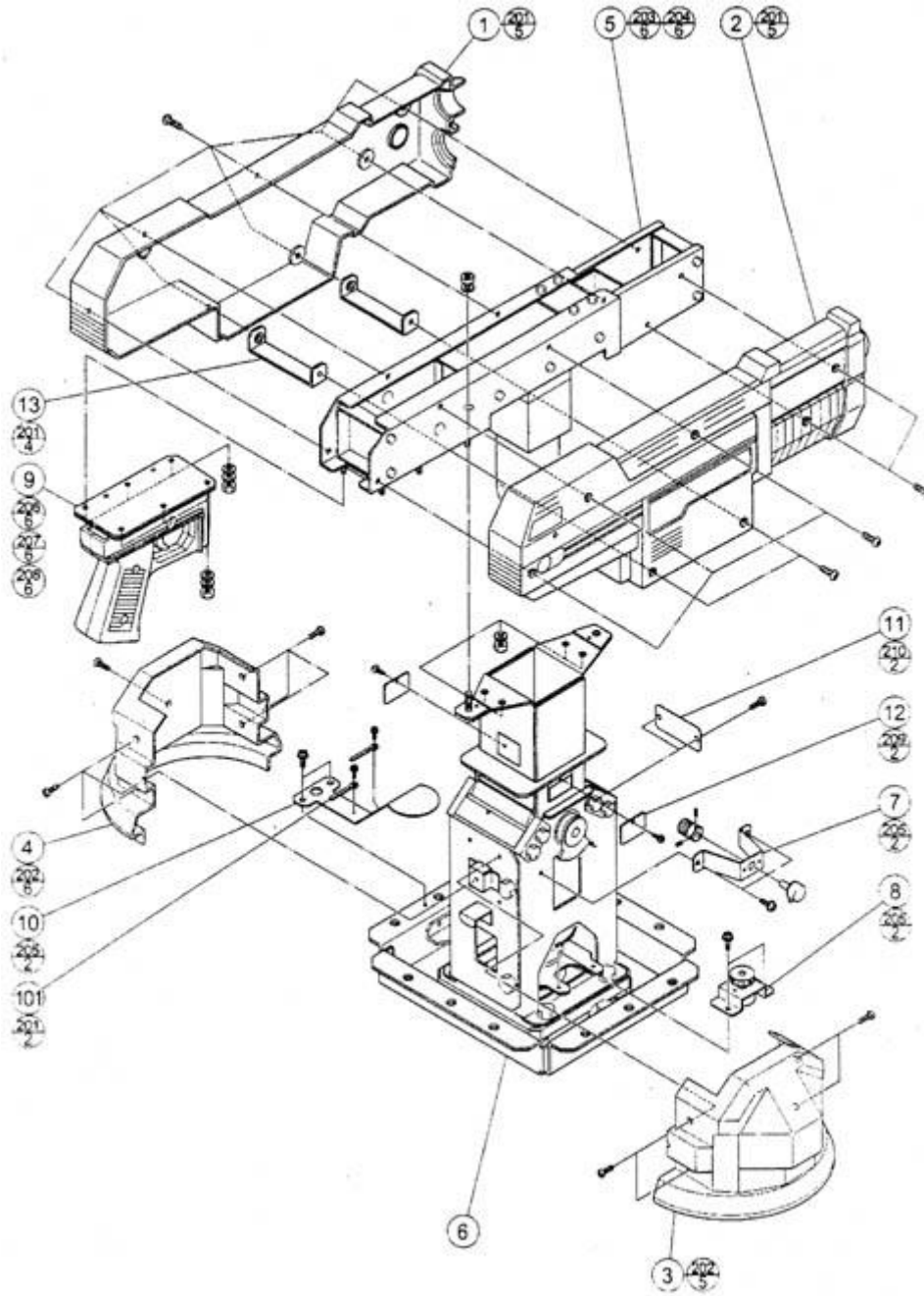
**(13) ASSY START SWITCH (GBN-1560)**



| ITEM NO. | PART NO.  | DESCRIPTION                         | NOTE |
|----------|-----------|-------------------------------------|------|
| 1        | GBN-0003  | CENTER PLATE                        |      |
| 101      | 5091-0161 | PUSH BUTTON SWITCH 1T YELLOW W/LAMP |      |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

**ASSY CONTROLLER (GBN1-2000)**

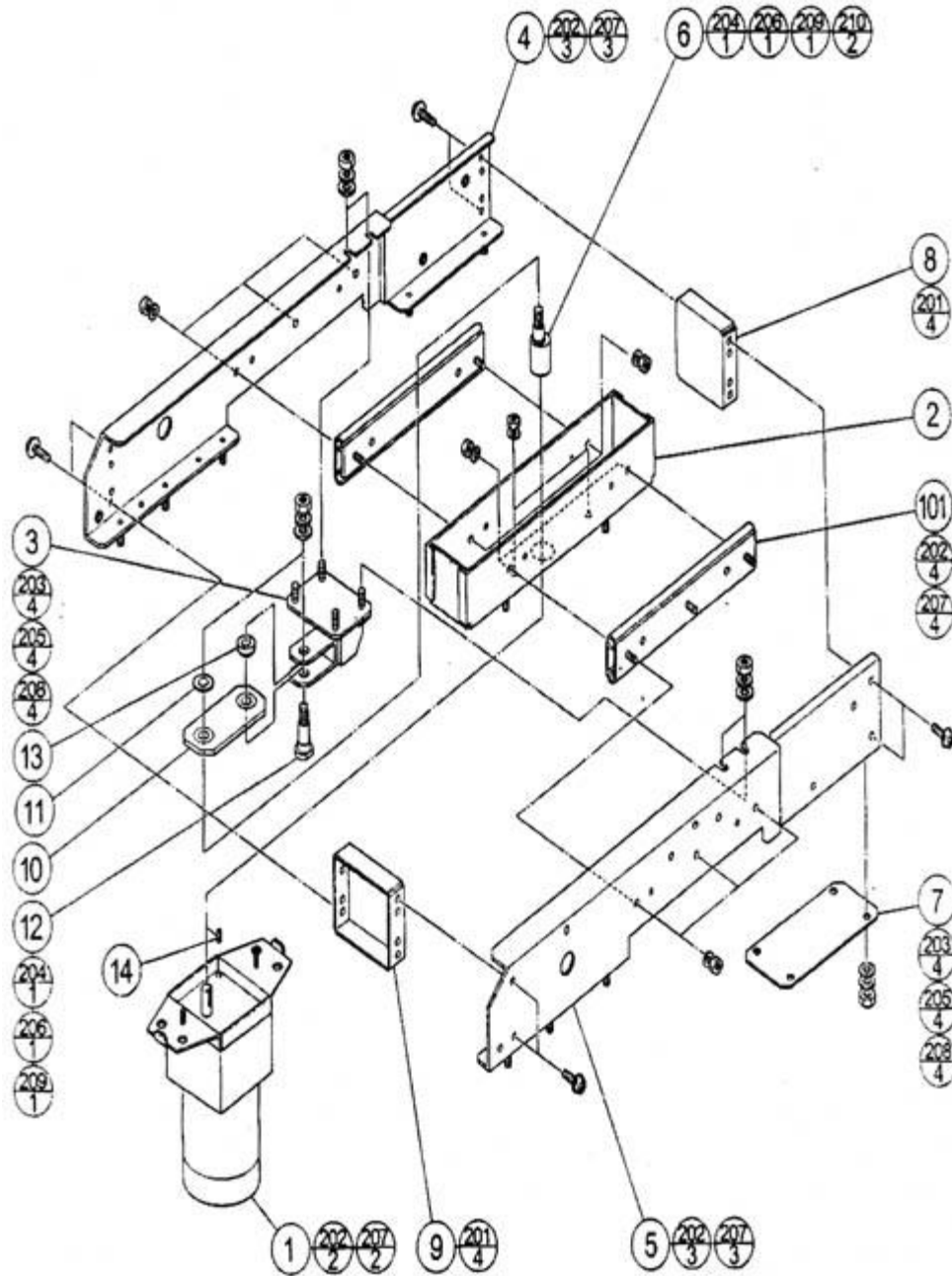


| ITEM NO. | PART NO.  | DESCRIPTION | NOTE |
|----------|-----------|-------------|------|
| 1        | GBN0-2001 | COVER LEFT  |      |

|     |               |                        |  |
|-----|---------------|------------------------|--|
| 2   | GBN0-2002     | COVER RIGHT            |  |
| 3   | GBN0-2050     | ASSY SLIDE MECHA       |  |
| 4   | GBN0-2300     | ASSY SWING BASE UR     |  |
| 5   | GBN0-2200     | ASSY VOLUME U/D        |  |
| 6   | GBN0-2250     | ASSY VOLUME UR         |  |
| 7   | GBN0-2400     | ASSY GRIP              |  |
| 8   | GBN0-2007     | WIRE GUIDE             |  |
| 9   | GBN0-2008     | LID A                  |  |
| 10  | GBN0-2009     | LID B                  |  |
| 11  | AIN0-2003     | COVER BRACKET          |  |
| 102 | 280-5275-SR10 | CORD CLAMP             |  |
| 201 | 008-T00512-OB | TMP PRF SCR TH BLK     |  |
| 202 | 060-S00600    | SPR WSHR M6            |  |
| 203 | 050-U00600    | U NUT M6               |  |
| 204 | 000-P00408-W  | M SCR PH W/FS M4X8     |  |
| 205 | 050-U00500    | U NUT M5               |  |
| 206 | 060-S00500    | SPR WSHR M5            |  |
| 207 | 060-F00500    | FLT WSHR M5            |  |
| 208 | 000-P00308-WB | M SCR PH W/FS BLK M3X8 |  |
| 209 | 000-T00408-OB | M SCRTH BLK M4X8       |  |
| 210 | 010-P00308-F  | S-TITE SCR PH W/F M3X8 |  |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

**(15) ASSY SLIDE MECHA (GBN1-2050)**



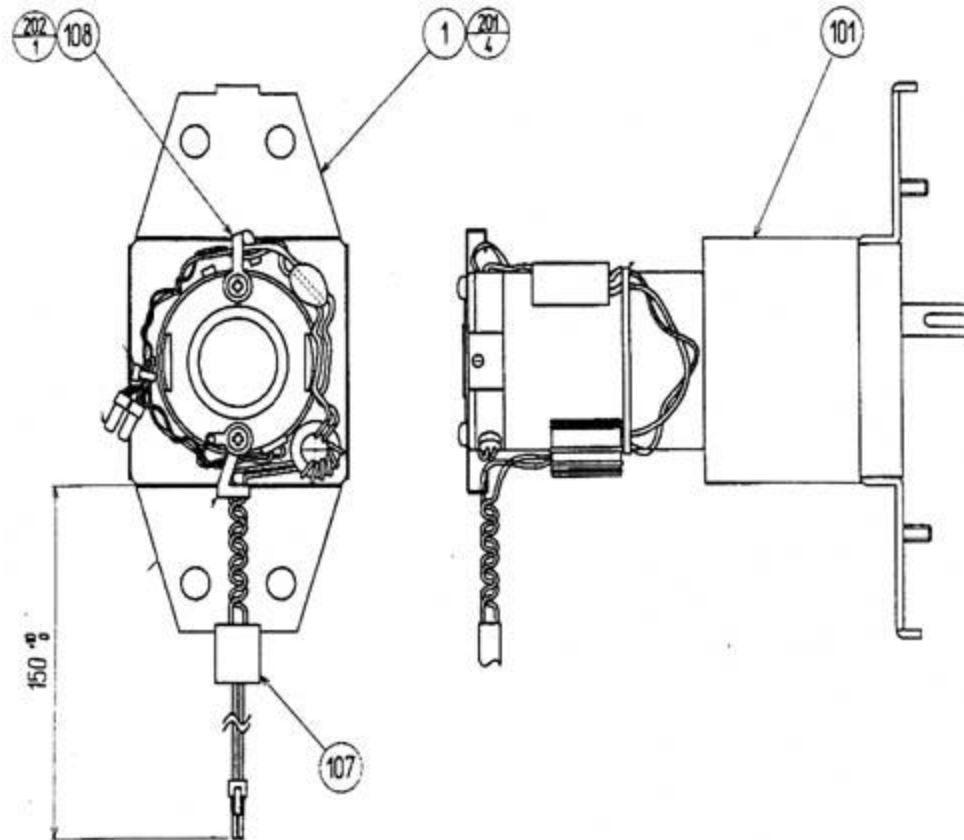
| ITEM NO. | PART NO.  | DESCRIPTION | NOTE |
|----------|-----------|-------------|------|
| 1        | GBN1-2070 | ASSY MOTOR  |      |
| 2        | GBN1-2051 | BASE CENTER |      |



|     |               |                                |  |
|-----|---------------|--------------------------------|--|
| 3   | GBN0-2052     | JOINT BRKT                     |  |
| 4   | GBN0-2053     | BASE RIGHT                     |  |
| 5   | GBN0-2054     | BASE LEFT                      |  |
| 6   | GBN0-2055     | CAM                            |  |
| 7   | GBN0-2056     | JOINT PLATE                    |  |
| 8   | GBN0-2057     | FRONT BRKT                     |  |
| 9   | GBN0-2058     | REAR BRKT                      |  |
| 10  | AIN0-2203     | JOINT BAR                      |  |
| 11  | AIN0-2204     | SPACER                         |  |
| 12  | AIN0-2205     | PIN                            |  |
| 13  | AIN0-2213X    | JOINT SPACER                   |  |
| 14  | GHO0-3783     | KEY 3 X 3 X 12                 |  |
| 101 | 100-5169      | SLIDE RAIL                     |  |
| 201 | 000-P00410-W  | M SCR PH W/FS M4 X 10          |  |
| 202 | 050-U00400    | U NUT M4                       |  |
| 203 | 050-U00500    | U NUT M5                       |  |
| 204 | 050-U00600    | U NUT M6                       |  |
| 205 | 060-F00500    | FLT WSHR M5                    |  |
| 206 | 060-F00600    | FLT WSHR M6                    |  |
| 207 | 060-S00400    | SPR WSHR M4                    |  |
| 208 | 060-S00500    | SPR WSHR M5                    |  |
| 209 | 060-S00600    | SPR WSHR M6                    |  |
| 210 | 020-000410-HZ | HEX SKT CAP SCR BLK OZ M4 X 10 |  |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

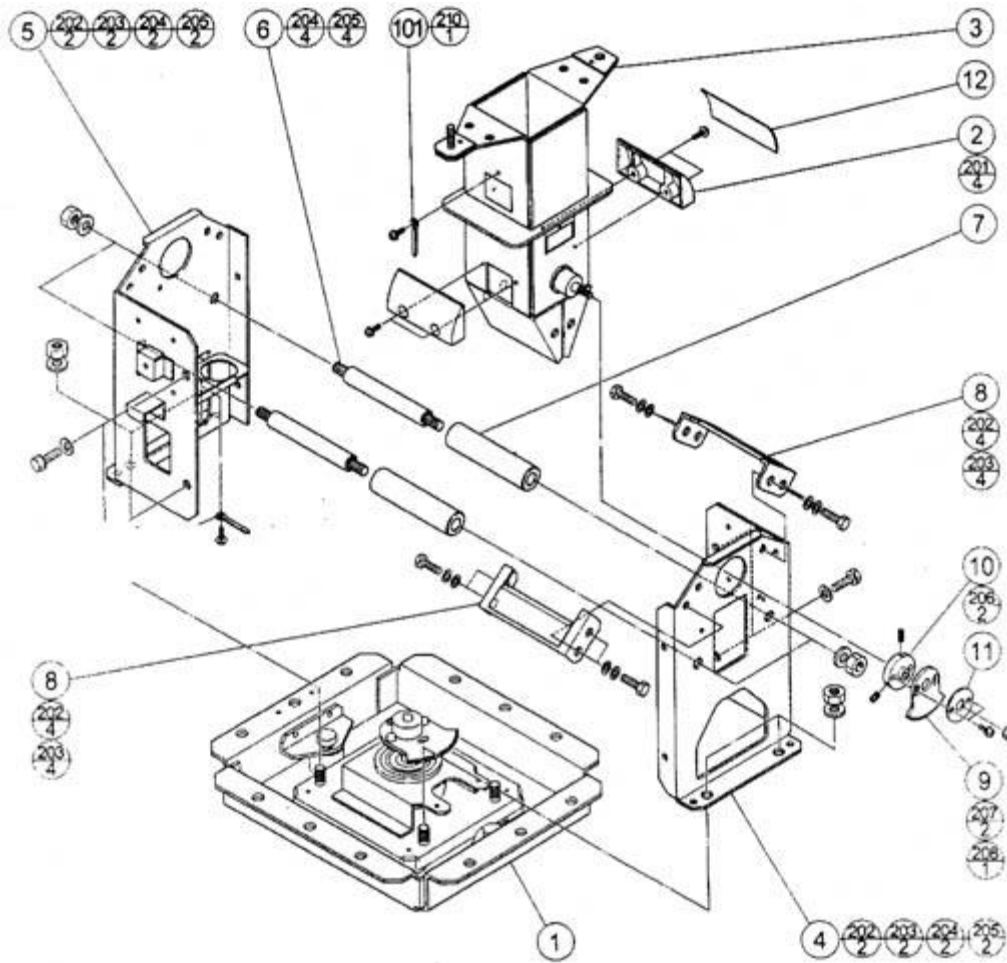
**(16) ASSY MOTOR (GBN1-2070)**



| ITEM NO. | PART NO.     | DESCRIPTION         | NOTE |
|----------|--------------|---------------------|------|
| 1        | GBN-2071     | MOTOR BRACKET       |      |
| 101      | 350-5292     | MOTOR DC 24V 600RPM |      |
| 107      | 610-0402     | ASSY WIRE GUN MOTOR |      |
| 201      | 000-P00408-S | M SCR PH W/S M4X8   |      |
| 202      | 010-P00306   | S-TITE SCR PH M3X6  |      |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

**(17) ASSY SWING BASE U/R (GBN-2300)**

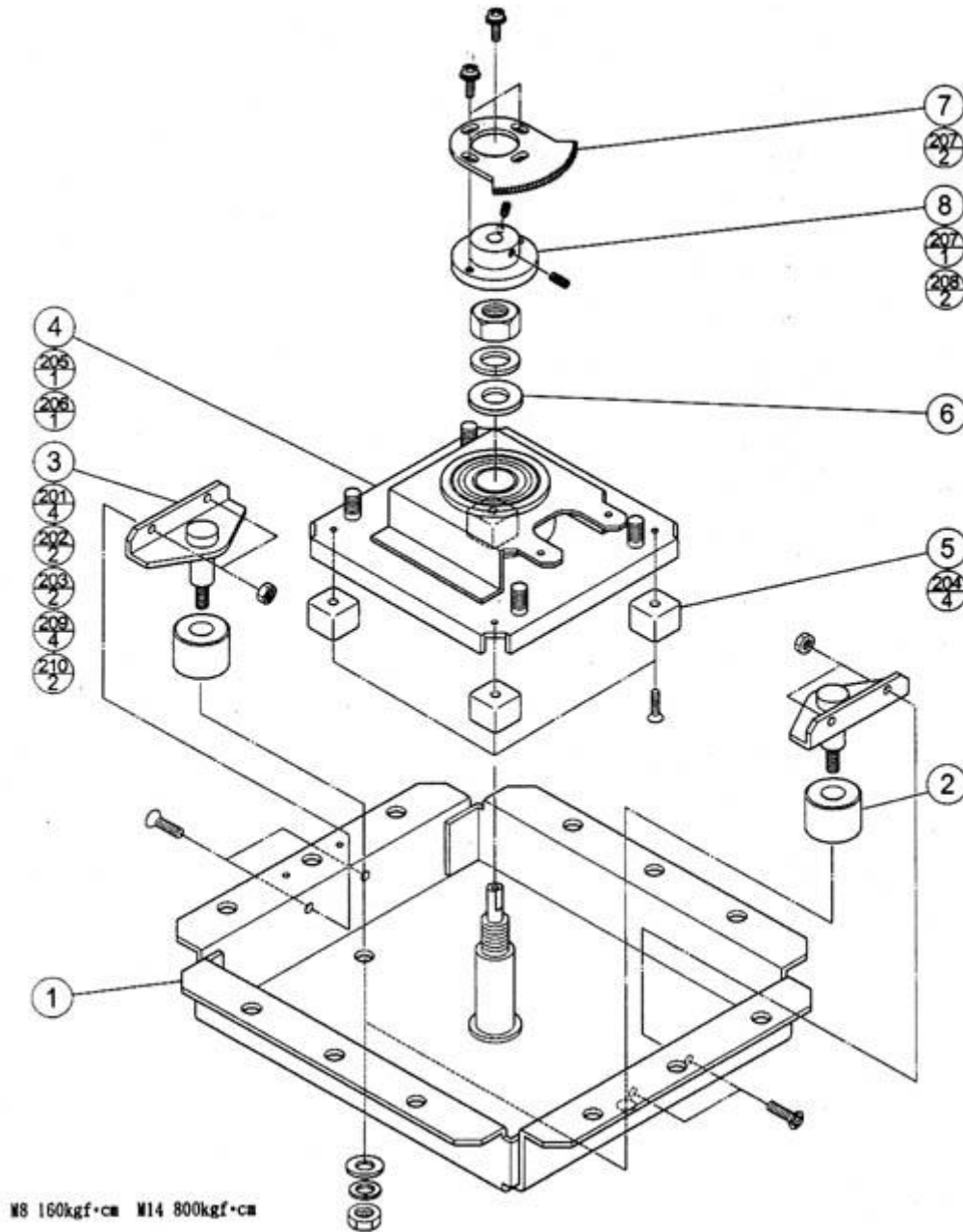


| ITEM NO. | PART NO.  | DESCRIPTION     | NOTE |
|----------|-----------|-----------------|------|
| 1        | GBN0-2350 | ASSY BASE UR    |      |
| 2        | GBN0-2101 | CORNER GUARD    |      |
| 3        | GBN0-2102 | MAIN SHAFT      |      |
| 4        | GBN0-2103 | SWING BRACKET A |      |
| 5        | GBN0-2104 | SWING BRACKET B |      |
| 6        | GBN0-2105 | SHAFT           |      |
| 7        | GBN0-2106 | STOPPER         |      |
| 8        | GBN0-2107 | CORNER HOLDER   |      |
| 9        | 601-6005  | ADJUST GEAR     |      |
| 10       | TTR0-2009 | GEAR HOLDER 80  |      |

|     |               |                             |  |
|-----|---------------|-----------------------------|--|
| 11  | GLC0-2122     | GEAR PLATE                  |  |
| 12  | GBN0-2108     | HOLE SHEET                  |  |
| 201 | 000-P00310-WB | M SCR PH W/FS BLK M3XIO     |  |
| 202 | 030-000612-S  | HEX BLTW/S M6X12            |  |
| 203 | 060-F00600    | FLT WSHR M6                 |  |
| 204 | 050-H00800    | HEX NUT M8                  |  |
| 205 | 060-S00800    | SPR WSHR M8                 |  |
| 206 | 028-A00410-P  | SET SCR HEX SKT CUP P M4X10 |  |
| 207 | 000-P00410-S  | M SCR PH W/S M4XIO          |  |
| 208 | 050-F00400    | FLG NUT M4                  |  |
| 209 | 010-P00308-F  | S-TITE SCR PH W/F M3X8      |  |
| 210 | 000-P00306-W  | M SCR PH W/FS M3 X 6        |  |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

**(18) ASSY BASE (GBN-2150)**

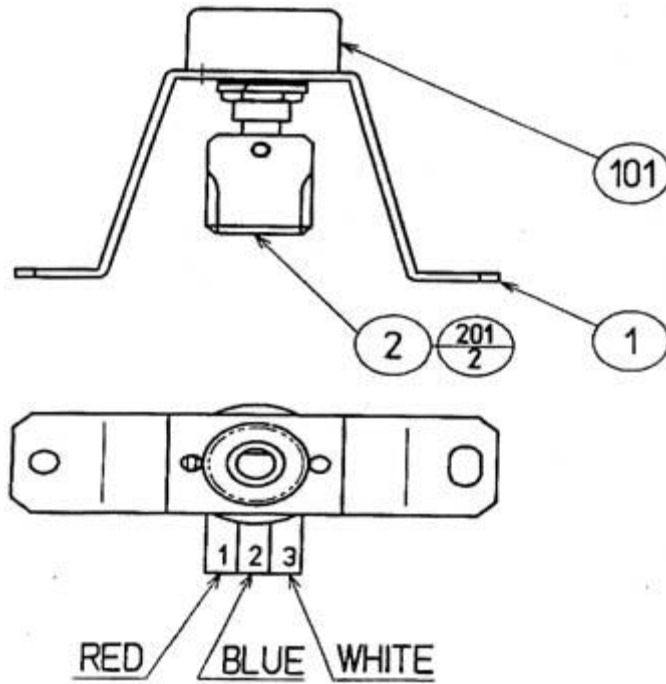


| ITEM NO. | PART NO.  | DESCRIPTION    | NOTE |
|----------|-----------|----------------|------|
| 1        | GBN0-2151 | BOTTOM BASE    |      |
| 2        | GBN0-2152 | BOTTOM STOPPER |      |

|     |              |                             |  |
|-----|--------------|-----------------------------|--|
| 3   | GBN0-2153    | STOPPER BRKT                |  |
| 4   | GBN0-2154    | SWING BASE                  |  |
| 5   | AIN-2107     | SPACER BLOCK B              |  |
| 6   | AIN0-2108    | RING                        |  |
| 7   | 601-6450     | GEAR 110                    |  |
| 8   | TTR0-2010    | GEAR HOLDER 110             |  |
| 201 | 000-F00512   | M SCR FH M5X12              |  |
| 202 | 060-S00800   | SPR WSHR M8                 |  |
| 203 | 060-F00800   | FLT WSHR M8                 |  |
| 204 | 000-F00416   | M SCR FH M4X16              |  |
| 205 | 050-H01400   | HEX NUT M14                 |  |
| 206 | 060-S01400   | SPR WSHR M14                |  |
| 207 | 000-P00410-W | M SCR PH W/FS M4X10         |  |
| 208 | 028-A00410-P | SET SCR HEX SKT CUP P M4X10 |  |
| 209 | 050-U00500   | U NUT M5                    |  |
| 210 | 050-H00800   | HEX NUT M8                  |  |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

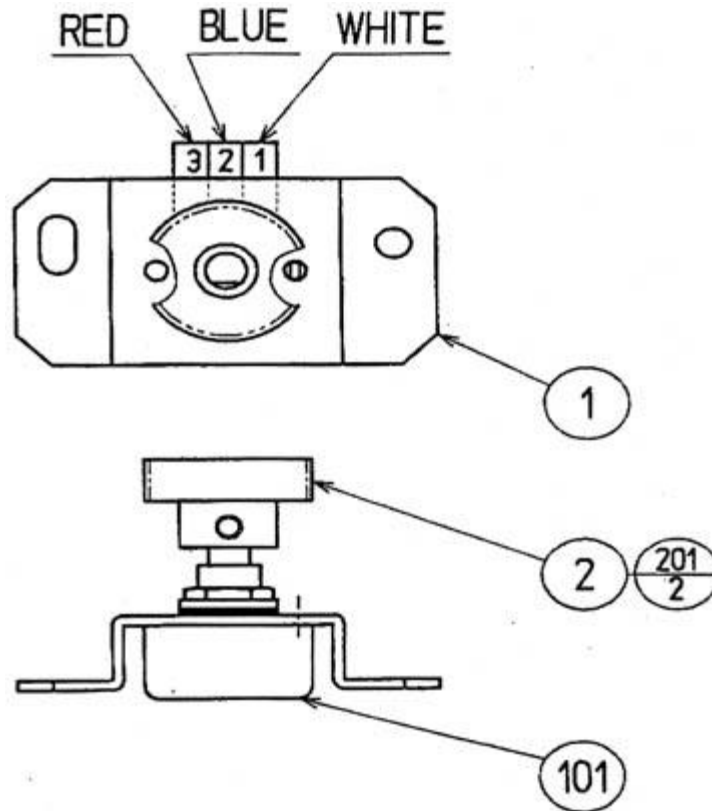
**(19) ASSY VOLUME U/D (GBN-2200)**



| ITEM NO. | PART NO.     | DESCRIPTION       | NOTE |
|----------|--------------|-------------------|------|
| 1        | GBN0-2201    | VR BRKT U/D       |      |
| 2        | 601-7945     | GEAR 20           |      |
| 101      | 220-5373     | VOL CONT B-5K OHM |      |
|          | 220-5484     | VOL CONT B-5K OHM |      |
| 201      | 028-C00308-P | SCR CH CUP M3X8   |      |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

**(20) ASSY VOLUME L/R (GBN-2250)**

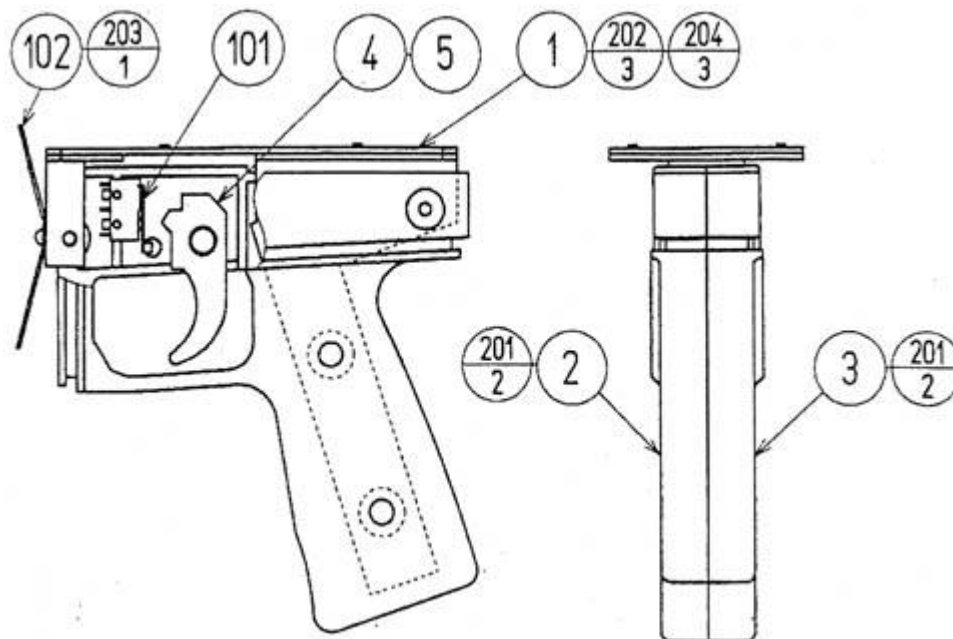


| ITEM NO. | PART NO.     | DESCRIPTION                  | NOTE |
|----------|--------------|------------------------------|------|
| 1        | GBN0-2251    | VR BRACKET LR                |      |
| 2        | 601-6555     | GEAR 20                      |      |
|          |              |                              |      |
| 101      | 220-5373     | VOL CONT B-5K OHM            |      |
|          |              |                              |      |
| 201      | 000-00410-HZ | HEX SKT CAP SCR BLK OZ M4X10 |      |



[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

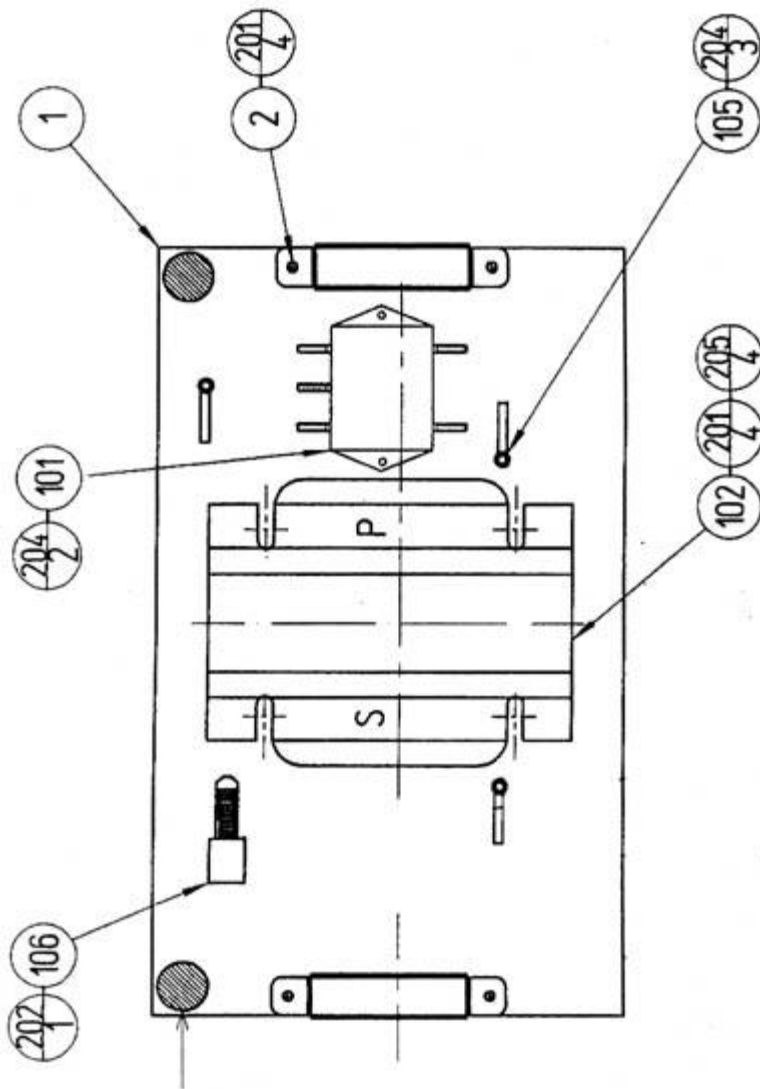
**(21) ASSY GRIP (GBN-2400)**



| ITEM NO. | PART NO.      | DESCRIPTION              | NOTE |
|----------|---------------|--------------------------|------|
| 1        | AIN-2401      | GRIP BASE                |      |
| 2        | GBN-2402      | GRIP LEFT                |      |
| 3        | GBN-2403      | GRIP RIGHT               |      |
| 4        | GBN-2404      | LEVER                    |      |
| 5        | AIN-2405      | TORSION SPRING           |      |
| 101      | 509-5080      | SW MICRO TYPE            |      |
| 201      | 008-T00512-OB | TMP PRF SCR TH BLK M5X12 |      |
| 202      | FAS-080008    | TMP PRF SCR PH W/F M3X 8 |      |
| 204      | 050-C00500-3B | CAP NUT TYPE3 BLK M5     |      |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#) [\[Next Page\]](#)

**(22) ASSY AC PWR SPLY (GBN-4200)**

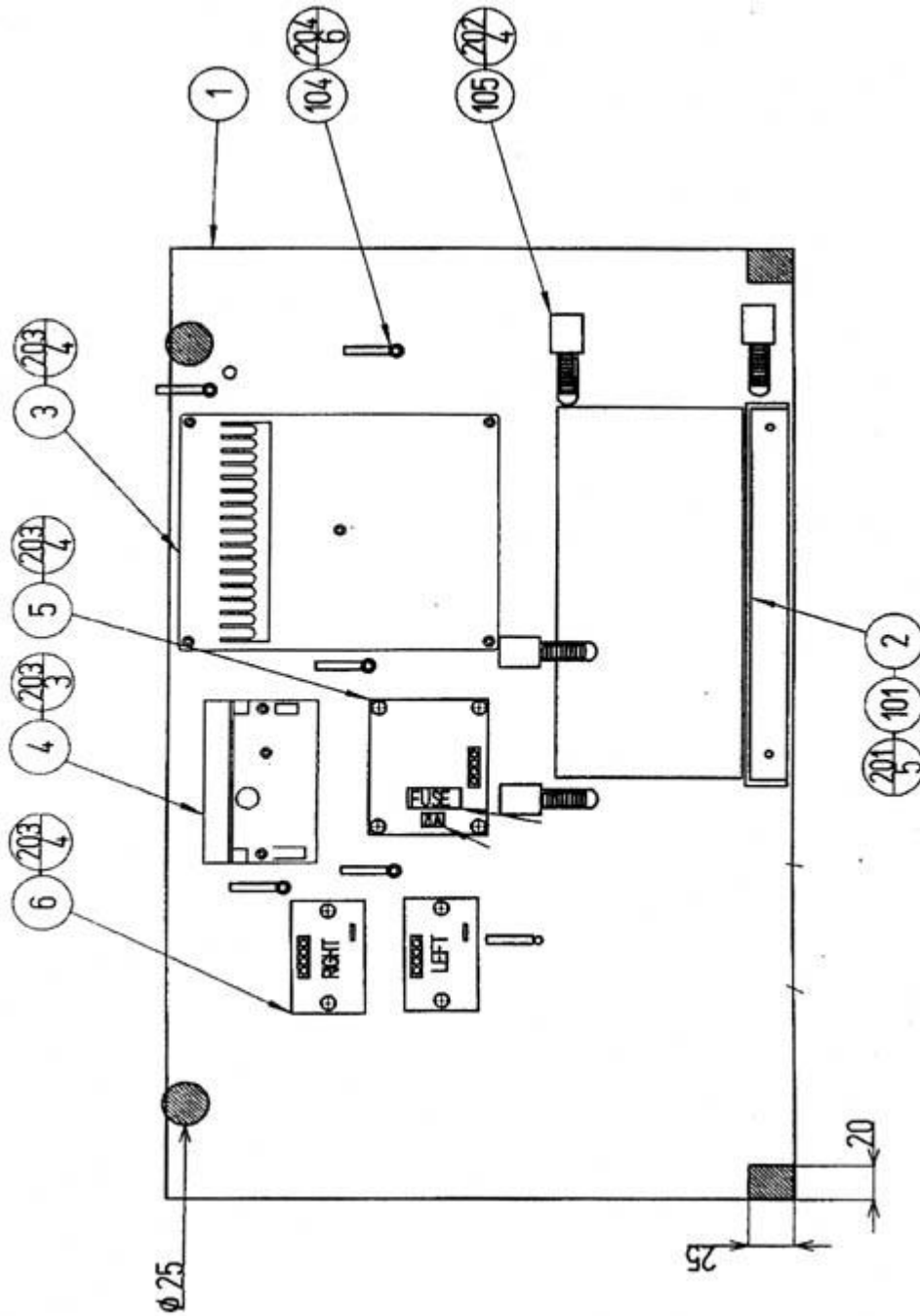


| ITEM NO. | PART NO.      | DESCRIPTION              | NOTE |
|----------|---------------|--------------------------|------|
| 2        | GBN-4201      | WOODEN BASE PWR SPLY     |      |
| 3        | GBN-4002      | HANDLE                   |      |
| 101      | GNRC-00586    | FILTER 10AMPEMI SHAFFNER |      |
| 102      | 5601-5330 514 | NOISE FILTER 20A         |      |
| 201      | 000-P00516-W  | M SCR PH W/FS M5x16      |      |
| 202      | 011-F00310    | TAP SCR FH 3x10          |      |
|          |               |                          |      |

|     |            |                      |  |
|-----|------------|----------------------|--|
| 203 | 011-P00325 | TAP SCR PH 3x25      |  |
| 204 | 011-T03512 | TAP SCR TH 3.5x12    |  |
| 206 | 068-552016 | FLT WSHR 5. 5-20x1.6 |  |

[\[Table of Contents\]](#) [\[Parts Index\]](#) [\[Previous Page\]](#)

**(23) ASSY ELEC BASE (GBN-4300)**



| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|----------|----------|-------------|------|
|----------|----------|-------------|------|

|     |                 |                                   |  |
|-----|-----------------|-----------------------------------|--|
| 1   | GBN-4301        | WOODEN BASE ELEC                  |  |
| 2   | GBN-4102        | SW REGU BRKT EQ.                  |  |
| 3   | 838-11650-15    | PWR AMP GBN                       |  |
| 4   | 838-11651       | LOWPASS AMP RECT                  |  |
| 5   | 839-0186-91     | BD DC 24V 2A DC SSR               |  |
| 6   | 839-0378        | BD CONN ORANGE                    |  |
| 7   | 421-6595-07     | STICKER 8A                        |  |
| 101 | 400-5306-01     | SW REGU +5V12A, +12V1.5A, -5V .1A |  |
| 102 | 514-5036-8000   | FUSE 6.40 x30 8000mA 125V         |  |
| 103 | 601-0460<br>280 | PLASTIC TIE BELT 100MM            |  |
| 104 | 280-0419        | HARNESS LUG                       |  |
| 105 | 280-5009        | CORD CLAMP 021                    |  |
| 201 | 000-P00412-W    | M SCR PH W/FS M4X12               |  |
| 202 | OII-F00310      | TAP SCR FH 3X10                   |  |
| 203 | OII-P00325      | TAP SCR PH 3X25                   |  |
| 204 | 011-T03512      | TAP SCR TH 3.5X12                 |  |

A TO (3/3)

ASSY AC PWR SPLY

XFMR

FUSE 250V 5A SB

FUSE 250V 4A

GBN1-1530 AC UNIT

GBN-4300 ASSY ELEC BASE

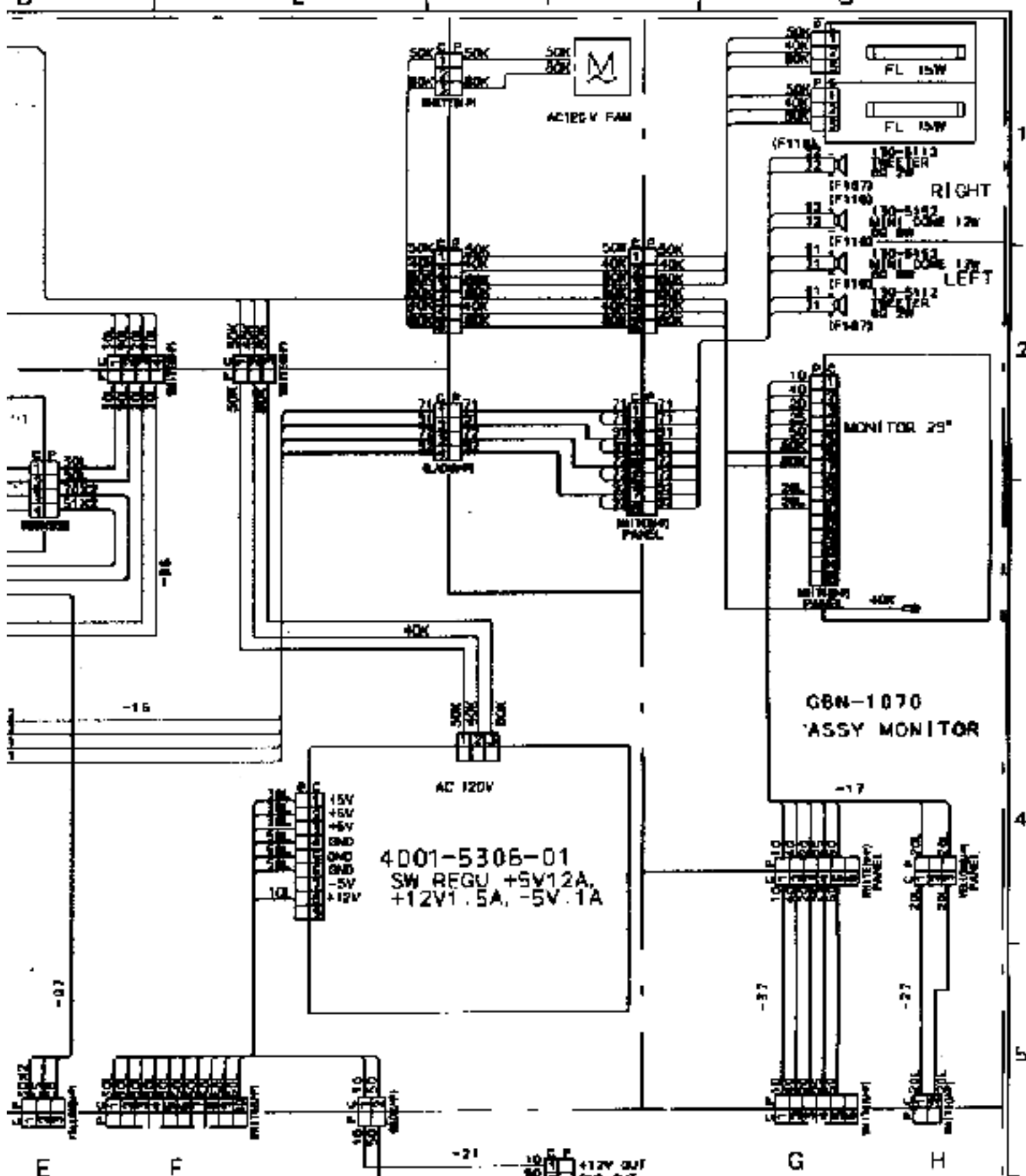
730-11651 LOWPASS AMP

838-11650-15 EO. PWR AMP GBN

GBN-1501 ASSY SUB CABI DX

GBN-1550 ASSY WOOFER 130-5097 SUPER WOOFER 40 GBN

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|



E O (2/X) F TO (2/X)

GBN-1501  
ASSY SUB CAB I DX

G TO (2/X) H TO (2/X)

US VERSION

|     |      |      |      |      |
|-----|------|------|------|------|
| 10V | 1.5V | 2.5V | 5.0V | 10V  |
| SW  | XXXW | XXXW | XXXW | XXXW |

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SEGA GUNBLADE NY U/R 1185-1(1/X)

1  
2  
3  
4  
5  
6

A

B

C

D

GBN-4300  
ASSY ELEC BASE

GBN-1501  
ASSY SUB CABI DX

GBN-0200 ASSY MAIN BD

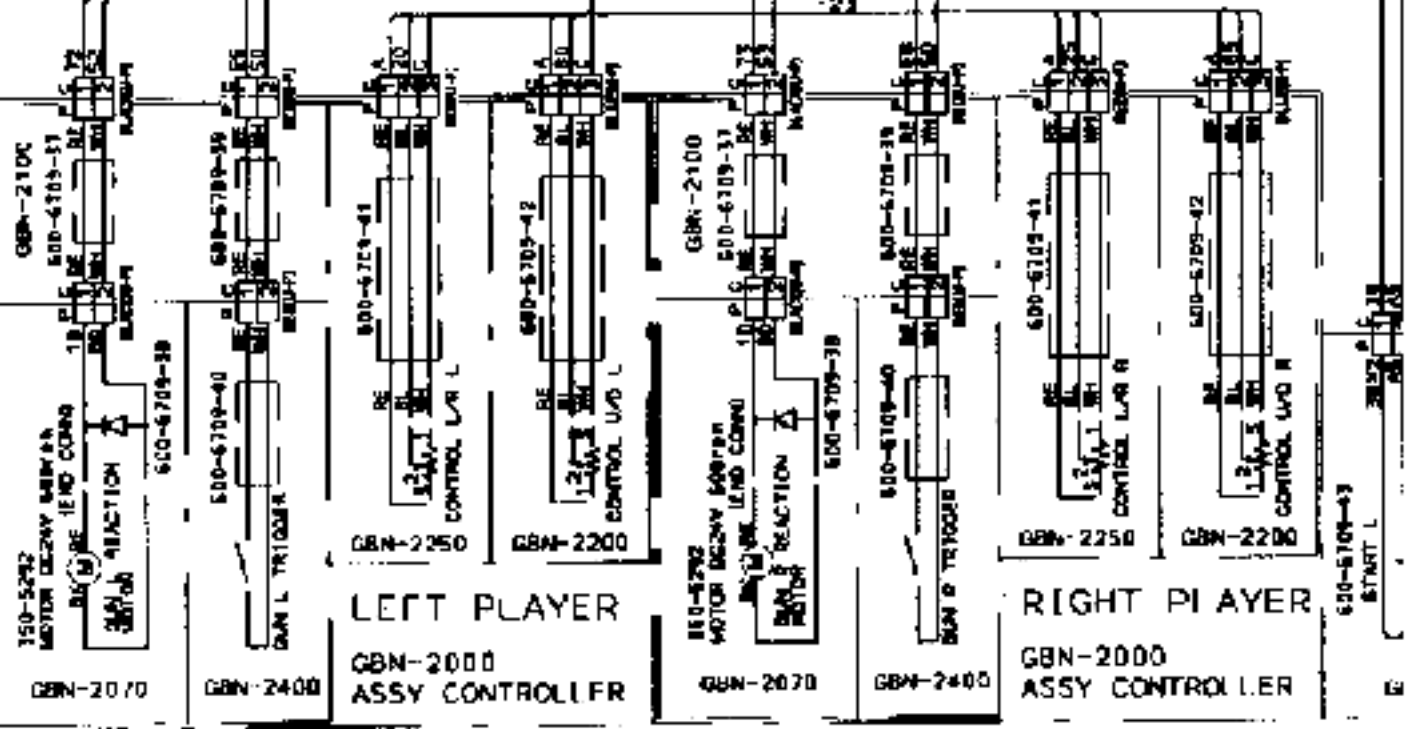
833-12562 GAME 3D GUNBL

834-12563 ROM BD GUNBL ADP NY

839-0778 FIT BD B-CRX RI

TO (1/X) C

TO (1/X) B

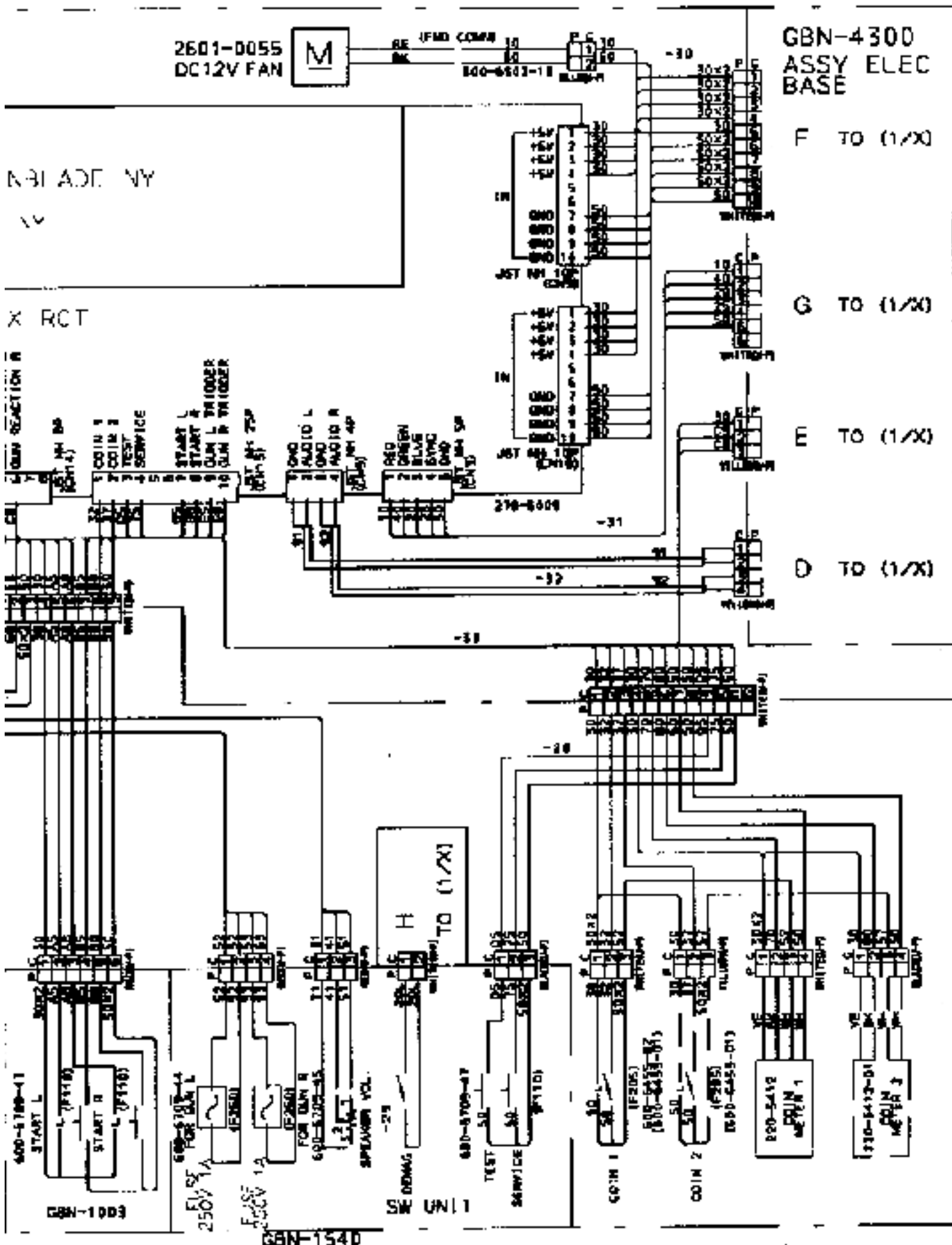


LEFT PLAYER  
GBN-2000  
ASSY CONTROLLER

RIGHT PLAYER  
GBN-2000  
ASSY CONTROLLER

| REV | DESCRIPTION           | DATE  | BY  | CHKD |
|-----|-----------------------|-------|-----|------|
| 1   | ISSUED FOR PRODUCTION | 11/85 | XXX | XXX  |
| 2   | REVISED               | 12/85 | XXX | XXX  |
| 3   | REVISED               | 01/86 | XXX | XXX  |
| 4   | REVISED               | 02/86 | XXX | XXX  |
| 5   | REVISED               | 03/86 | XXX | XXX  |
| 6   | REVISED               | 04/86 | XXX | XXX  |
| 7   | REVISED               | 05/86 | XXX | XXX  |
| 8   | REVISED               | 06/86 | XXX | XXX  |
| 9   | REVISED               | 07/86 | XXX | XXX  |
| 10  | REVISED               | 08/86 | XXX | XXX  |
| 11  | REVISED               | 09/86 | XXX | XXX  |
| 12  | REVISED               | 10/86 | XXX | XXX  |
| 13  | REVISED               | 11/86 | XXX | XXX  |
| 14  | REVISED               | 12/86 | XXX | XXX  |
| 15  | REVISED               | 01/87 | XXX | XXX  |
| 16  | REVISED               | 02/87 | XXX | XXX  |
| 17  | REVISED               | 03/87 | XXX | XXX  |
| 18  | REVISED               | 04/87 | XXX | XXX  |
| 19  | REVISED               | 05/87 | XXX | XXX  |
| 20  | REVISED               | 06/87 | XXX | XXX  |
| 21  | REVISED               | 07/87 | XXX | XXX  |
| 22  | REVISED               | 08/87 | XXX | XXX  |
| 23  | REVISED               | 09/87 | XXX | XXX  |
| 24  | REVISED               | 10/87 | XXX | XXX  |
| 25  | REVISED               | 11/87 | XXX | XXX  |
| 26  | REVISED               | 12/87 | XXX | XXX  |
| 27  | REVISED               | 01/88 | XXX | XXX  |
| 28  | REVISED               | 02/88 | XXX | XXX  |
| 29  | REVISED               | 03/88 | XXX | XXX  |
| 30  | REVISED               | 04/88 | XXX | XXX  |
| 31  | REVISED               | 05/88 | XXX | XXX  |
| 32  | REVISED               | 06/88 | XXX | XXX  |
| 33  | REVISED               | 07/88 | XXX | XXX  |
| 34  | REVISED               | 08/88 | XXX | XXX  |
| 35  | REVISED               | 09/88 | XXX | XXX  |
| 36  | REVISED               | 10/88 | XXX | XXX  |
| 37  | REVISED               | 11/88 | XXX | XXX  |
| 38  | REVISED               | 12/88 | XXX | XXX  |
| 39  | REVISED               | 01/89 | XXX | XXX  |
| 40  | REVISED               | 02/89 | XXX | XXX  |
| 41  | REVISED               | 03/89 | XXX | XXX  |
| 42  | REVISED               | 04/89 | XXX | XXX  |
| 43  | REVISED               | 05/89 | XXX | XXX  |
| 44  | REVISED               | 06/89 | XXX | XXX  |
| 45  | REVISED               | 07/89 | XXX | XXX  |
| 46  | REVISED               | 08/89 | XXX | XXX  |
| 47  | REVISED               | 09/89 | XXX | XXX  |
| 48  | REVISED               | 10/89 | XXX | XXX  |
| 49  | REVISED               | 11/89 | XXX | XXX  |
| 50  | REVISED               | 12/89 | XXX | XXX  |
| 51  | REVISED               | 01/90 | XXX | XXX  |
| 52  | REVISED               | 02/90 | XXX | XXX  |
| 53  | REVISED               | 03/90 | XXX | XXX  |
| 54  | REVISED               | 04/90 | XXX | XXX  |
| 55  | REVISED               | 05/90 | XXX | XXX  |
| 56  | REVISED               | 06/90 | XXX | XXX  |
| 57  | REVISED               | 07/90 | XXX | XXX  |
| 58  | REVISED               | 08/90 | XXX | XXX  |
| 59  | REVISED               | 09/90 | XXX | XXX  |
| 60  | REVISED               | 10/90 | XXX | XXX  |
| 61  | REVISED               | 11/90 | XXX | XXX  |
| 62  | REVISED               | 12/90 | XXX | XXX  |
| 63  | REVISED               | 01/91 | XXX | XXX  |
| 64  | REVISED               | 02/91 | XXX | XXX  |
| 65  | REVISED               | 03/91 | XXX | XXX  |
| 66  | REVISED               | 04/91 | XXX | XXX  |
| 67  | REVISED               | 05/91 | XXX | XXX  |
| 68  | REVISED               | 06/91 | XXX | XXX  |
| 69  | REVISED               | 07/91 | XXX | XXX  |
| 70  | REVISED               | 08/91 | XXX | XXX  |
| 71  | REVISED               | 09/91 | XXX | XXX  |
| 72  | REVISED               | 10/91 | XXX | XXX  |
| 73  | REVISED               | 11/91 | XXX | XXX  |
| 74  | REVISED               | 12/91 | XXX | XXX  |
| 75  | REVISED               | 01/92 | XXX | XXX  |
| 76  | REVISED               | 02/92 | XXX | XXX  |
| 77  | REVISED               | 03/92 | XXX | XXX  |
| 78  | REVISED               | 04/92 | XXX | XXX  |
| 79  | REVISED               | 05/92 | XXX | XXX  |
| 80  | REVISED               | 06/92 | XXX | XXX  |
| 81  | REVISED               | 07/92 | XXX | XXX  |
| 82  | REVISED               | 08/92 | XXX | XXX  |
| 83  | REVISED               | 09/92 | XXX | XXX  |
| 84  | REVISED               | 10/92 | XXX | XXX  |
| 85  | REVISED               | 11/92 | XXX | XXX  |
| 86  | REVISED               | 12/92 | XXX | XXX  |
| 87  | REVISED               | 01/93 | XXX | XXX  |
| 88  | REVISED               | 02/93 | XXX | XXX  |
| 89  | REVISED               | 03/93 | XXX | XXX  |
| 90  | REVISED               | 04/93 | XXX | XXX  |
| 91  | REVISED               | 05/93 | XXX | XXX  |
| 92  | REVISED               | 06/93 | XXX | XXX  |
| 93  | REVISED               | 07/93 | XXX | XXX  |
| 94  | REVISED               | 08/93 | XXX | XXX  |
| 95  | REVISED               | 09/93 | XXX | XXX  |
| 96  | REVISED               | 10/93 | XXX | XXX  |
| 97  | REVISED               | 11/93 | XXX | XXX  |
| 98  | REVISED               | 12/93 | XXX | XXX  |
| 99  | REVISED               | 01/94 | XXX | XXX  |
| 100 | REVISED               | 02/94 | XXX | XXX  |





|      |      |      |     |      |
|------|------|------|-----|------|
| 120V | 110V | 100V | 90V | 100V |
| XXW  | XXW  | XXW  | XXW | XXW  |

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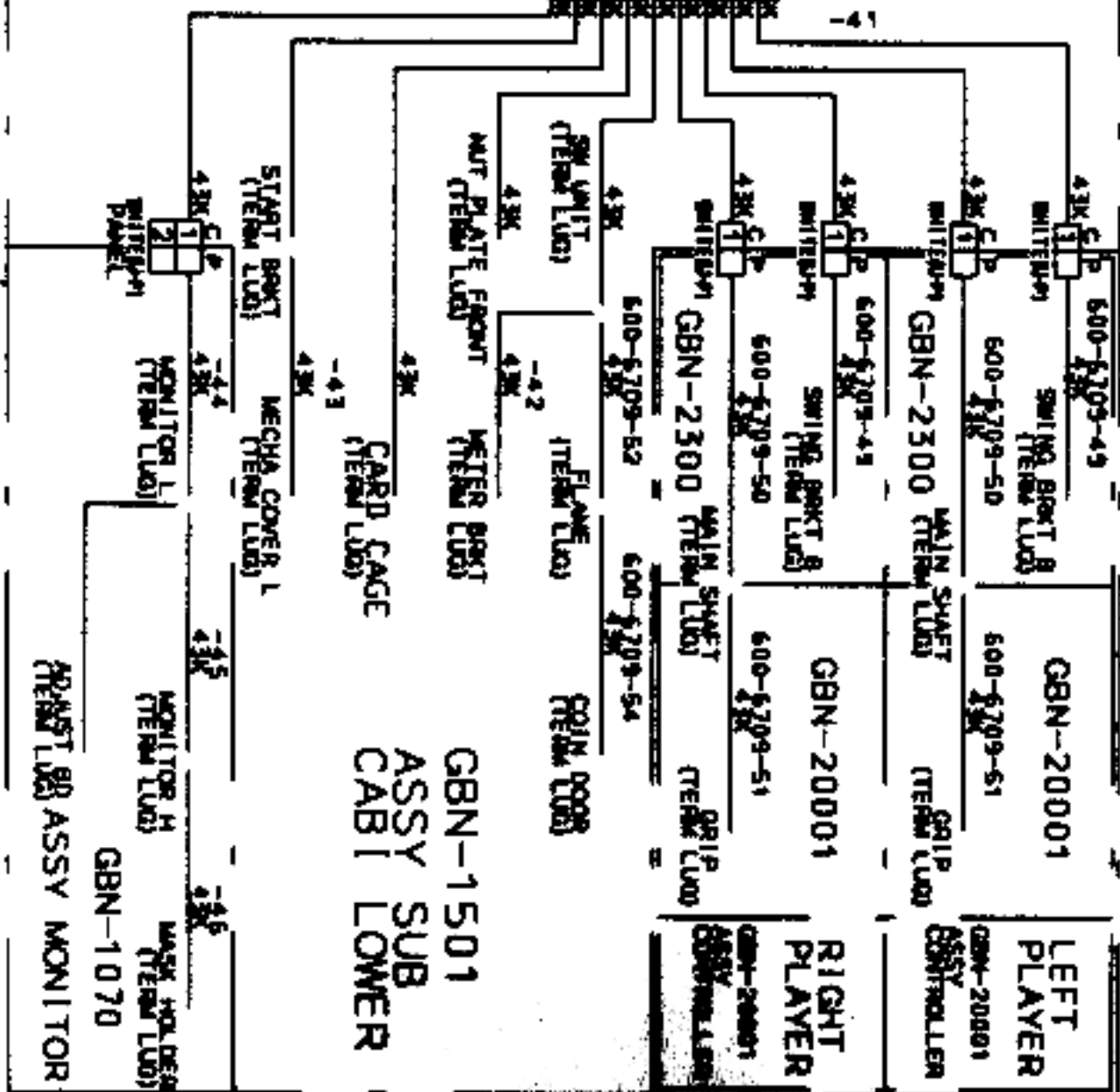
# EARTH WIRING

GBN-1530  
AC UNIT

TO (1/X)

A

EARTH TERMINAL  
(TERM LUG)



LEFT  
PLAYER

GBN-20001

ASSY  
CONTROLLER

RIGHT  
PLAYER

GBN-20001

ASSY  
CONTROLLER

GBN-1501  
ASSY SUB  
CABINET LOWER

MONITOR H  
(TERM LUG)  
GBN-1070  
ASSY MONITOR  
(TERM LUG)