1st PRINTING OCT 01



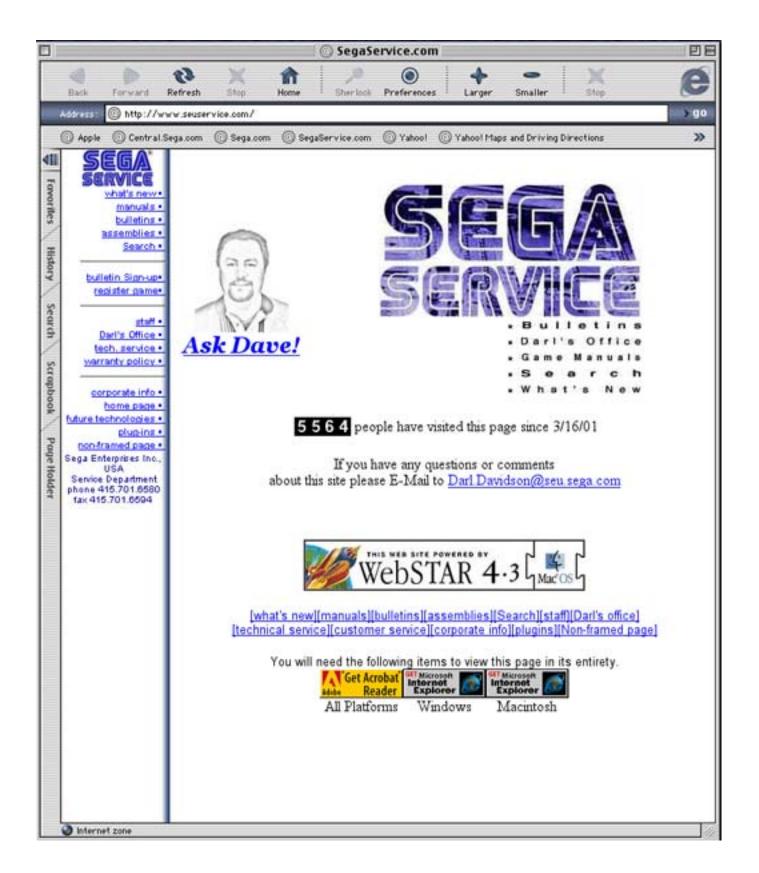


# DELUXE VERSION OWNER'S MANUAL



SEGA ENTERPRISES, INC. USA MANUAL NO. 4201-6545-01

# **VISIT OUR WEBSITE!**



| TABLE OF CONTENTSINTRODUCTION OF THE OWNER'S MANUAL1. HANDLING PRECAUTIONS1 |
|---|
|   |
| 1. HANDLING PRECAUTIONS 1   |
|   |
| 2. PRECAUTIONS CONCERNING INSTALLATION LOCATION $2 \sim 3$                  |
| 3. OPERATION  |
| 4. NAME OF PARTS  |
| 5. ACCESSORIES  |
| 6. ASSEMBLING AND INSTALLATION  |
| 7. PRECAUTIONS TO BE HEEDED WHEN MOVING THE MACHINE $30 \sim 31$            |
| 8. CONTENTS OF GAME   |
| 9. EXPLANATION OF TEST AND DATA DISPLAY                                     |
| 9 - 1 SWITCH UNIT AND COIN METER  |
| 9 - 2 SYSTEM TEST MODE  |
| 9 - 3 GAME TEST MODE  |
| 10. CONTROL PANEL(HANDLE MECHA)   |
| 10 - 1 REMOVING THE HANDLE MECHA  |
| 10 - 2 VOLUME ADJUSTMENT/REPLACEMENT  |
| 11. SHIFT LEVER   |
| 11 - 1 REMOVING THE SHIFT LEVER   |
| 11 - 2 SWITCH REPLACEMENT   |
| 12. ACCELERATOR & BRAKE   |
| 12 - 1 REMOVING THE ACCELERATOR AND THE BRAKE                               |
| 12 - 2 ADJUSTING OR REPLACING THE VOLUME                                    |
| 12 - 3 GREASING   |
| 13. COIN SELECTOR   |
| 14. PROJECTOR   |
| 14 - 1 CLEANING THE SCREEN  |
| 14 - 2 ADJUSTMENT OF TOSHIBA PROJECTOR                                      |
| 14 - 3 ADJUSTMENT OF MITSUBISHI PROJECTOR                                   |
| 15. REPLACING THE FLUORESCENT LAMP, AND LAMPS                               |
| 16. PERIODIC INSPECTION TABLE   |
| 17. TROUBLESHOOTING   |
| 18. GAME BOARD  |
| 18 - 1 REMOVING THE BOARD   |
| 18 - 2 COMPOSITION OF GAME BOARD  |
| 18 - 3 ERROR DISPLAY(DRIVE CONTROL BOARD)                                   |
| 19. DESIGN RELATED PARTS93  |
| 20. PARTS LIST  |
| 21. WIRE COLOR CODE TABLE   |
| 22. WIRING DIAGRAMXXX   |

| T                          |  |
|----------------------------|--|
| Installation space         | : $1,580 \text{ mm}(W) \text{ X } 2,460 \text{ mm}(D)$ |
|                            | (62.2 in. X 96.9 in.)                                  |
| Height                     | : 2,230 mm (1045.0 in.)                                |
| Weight                     | : Approx.474 kg. (743.0 lbs.)                          |
| Power, maximum current     | : 680 W 7.63 A (AC 110V 50 Hz AREA)                    |
|                            | 660 W 7.39 A (AC 110V 60 Hz AREA)                      |
|                            | 650 W 6.79 A (AC 120V 60 Hz AREA)                      |
|                            | 700 W 3.90 A (AC 220V 50 Hz AREA)                      |
|                            | 690 W 3.89 A (AC 220V 60 Hz AREA)                      |
|                            | 720 W 3.94 A (AC 230V 50 Hz AREA)                      |
|                            | 700 W 3.80 A (AC 230V 60 Hz AREA)                      |
|                            | 690 W 3.61 A (AC 240V 50 Hz AREA)                      |
|                            | 660 W 3.44 A (AC 240V 60 Hz AREA)                      |
| For TAIWAN (MITSUBISHI PRO |  |
| Power, current             | : 680 W 8.00 Å (MAX.)                                  |
|                            | 300 W 3.40 A (MIN.)                                    |
| For TAIWAN (TOSHIBA PROJEC |  |
| Power, current             | : 705 W 8.10 A (MAX.)                                  |
| ,                          | 310 W 3.60 A (MIN.)                                    |
| MONITOR                    | : 50 TYPE PROJECTION DISPLAY                           |

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

This Owner's Manual is intended to provide detailed descriptions together with all the necessary information covering the general operation of electronic assemblies, electromechanicals, servicing control, spare parts, etc. as regards the product, **EIGHTEEN WHEELER DELUXE.** 

This manual is intended for the owners, personnel and managers in charge of operation of the product. Operate the product after carefully reading and sufficiently understanding the instructions. If the product fails to function satisfactorily, nontechnical personnel should under no circumstances touch the internal system. Please contact where the product was purchased from.

Use of this product is unlikely to cause physical injuries or damages to property. However, where special attention is required this is indicated by a thick line, the word "IMPORTANT" and its sign in this manual.



Indicates that mishandling the product by disregarding this display can cause the product's intrinsic performance not to be obtained, resulting in malfunctioning.

SEGA ENTERPRISES, INC. (U.S.A.)/CUSTOMER SERVICE 45133 Industrial Drive, Fremont, California 94538, U.S.A. Phone : (415) 701-6580 Fax : (415) 701-6594



Non-technical personnel who do not have technical knowledge and expertise should refrain from performing such work that this manual requires the location's maintenance man or a serviceman to carry out, or work which is not explained in this manual. Failing to comply with this instruction can cause a severe accident such as electric shock.

Ensure that parts replacement, servicing & inspections, and troubleshooting are performed by the location's maintenance man or the serviceman. It is instructed herein that particularly hazardous work should be performed by the serviceman who has technical expertise and knowledge.

The location's maintenance man and serviceman are herein defined as follows:

### "Location's Maintenance Man" :

Those who have experience in the maintenance of amusement equipment and vending machines, etc., and also participate in the servicing and control of the equipment through such routine work as equipment assembly and installation, servicing and inspections, replacement of units and consumables, etc. within the Amusement Facilities and or locations under the management of the Owner and Owner's Operators of the product.

### Activities of Location's Maintenance Man :

Assembly & installation, servicing & inspections, and replacement of units & consumables as regards amusement equipment, vending machines, etc.

### Serviceman :

Those who participate in the designing, manufacturing, inspections and maintenance service of the equipment at an amusement equipment manufacturer.

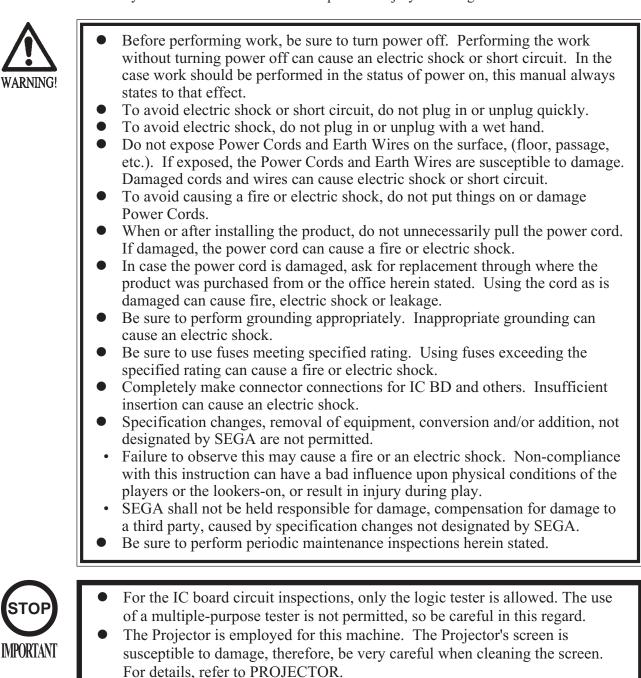
Those who have technical expertise equivalent to that of technical high school graduates as regards electricity, electronics and or mechanical engineering, and daily take part in the servicing & control and repair of amusement equipment.

### Serviceman's Activities :

Assembly & installation and repair & adjustments of electrical, electronic and mechanical parts of amusement equipment and vending machines.

# **1. HANDLING PRECAUTIONS**

When installing or inspecting the machine, be very careful of the following points and pay attention to ensure that the player can enjoy the game safely. Non-compliance with the following points or inappropriate handling running counter to the cautionary matters herein stated can cause personal injury or damage to the machine.



# 2. PRECAUTIONS CONCERNING INSTALLATION

# LOCATION



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

- Places subject to rain or water leakage, or places subject to high humidity in the proximity of an indoor swimming pool and or shower, etc.
- Places subject to direct sunlight, or places subject to high temperatures in the proximity of heating units, etc.
- Places filled with inflammable gas or vicinity of highly inflammable/volatile chemicals or hazardous matter.
- Dusty places.
- Sloped surfaces.
- Places subject to any type of violent impact.
- Vicinity of anti-disaster facilities such as fire exits and fire extinguishers.
- The operating (ambient) temperature range is from 5° C to 40° C. Only in the case a projector is employed, the temperature range is from 5° C to 30° C.

### LIMITATIONS OF USAGE REQUIREMENTS



Be sure to check the Electrical Specifications.
 Ensure that this product is compatible with the location's power supply, voltage and frequency requirements.

A plate describing Electrical Specifications is attached to the product. Non-compliance with the Electrical Specifications can cause a fire and electric shock.

- This product requires the Breaker and Earth Mechanisms as part of the location facilities. Using them in a manner not independent can cause a fire and electric shock.
- Ensure that the indoor wiring for the power supply is rated at 15A or higher (AC single phase 100 ~ 120V area), and 7A or higher (AC 220 ~ 240V area). Non-compliance with the Electrical Specifications can cause a fire and electric shock.
- Be sure to independently use the power supply equipped with the Earth Leakage Breaker. Using a power supply without the Earth Leakage Breaker can cause an outbreak of fire when earth leakage occurs.
- Putting many loads on one electrical outlet can cause generation of heat and a fire resulting from overload.
- When using an extension cord, ensure that the cord is rated at 15A or higher (AC 100 ~ 120V area) and 7A or higher (AC 220 ~ 240V area). Using a cord rated lower than the specified rating can cause a fire and electric shock.

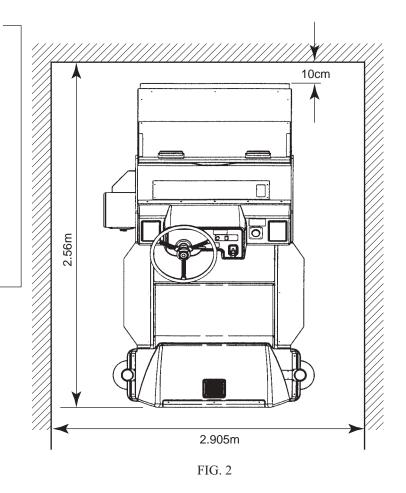


- For the operation of this machine, secure a minimum area of 2.905m (W) X 2.56m (D). In order to prevent injury resulting from the falling down accident during game play, be sure to secure the minimum area for operation.
- Be sure to provide sufficient space so as to allow this product's ventilation fan to function efficiently. To avoid machine malfunctioning and a fire, do not place any obstacles near the ventilation opening.
- SEGA shall not be held responsible for damage, compensation for damage to a third party, resulting from the failure to observe this instruction.



For transporting the machine into the location's building, the minimum necessary dimensions of the opening (of doors, etc.) are 1.6m(W) and 1.7m(H).

Electric current consumption MAX. 7.63 A (AC 110V 50 Hz) MAX. 7.39 A (AC 110V 60 Hz) MAX. 6.79 A (AC 120V 60 Hz) MAX. 3.90 A (AC 220V 50 Hz) MAX. 3.89 A (AC 220V 60 Hz) MAX. 3.94 A (AC 230V 50 Hz) MAX. 3.80 A (AC 230V 60 Hz) MAX. 3.61 A (AC 240V 50 Hz) MAX. 3.61 A (AC 240V 60 Hz) MAX. 8.00 A (For TAIWAN, MITSUBISHI projection display) MAX. 8.10 A (For TAIWAN, TOSHIBA projection display)



# **3. OPERATION**

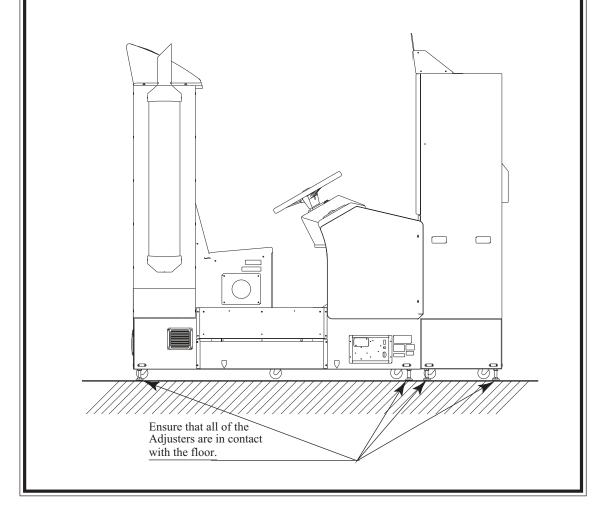
### PRECAUTIONS TO BE HEEDED BEFORE STARTING THE OPERATION

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



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

- To ensure maximum safety for the players and the customers, ensure that where the product is operated has sufficient lighting to allow any warnings to be read. Operation under insufficient lighting can cause bodily contact with each other, hitting accident, and or trouble between customers.
- Be sure to perform appropriate adjustment of the monitor (projector). For operation of this machine, do not leave monitor's flickering or deviation as is. Failure to observe this can have a bad influence upon the players' or the customers' physical conditions.
- It is suggested to ensure a space allowing the players who feel sick while playing the game to take a rest.
- Check if all of the adjusters are in contact with the surface. If they are not, the Cabinet can move and cause an accident.





- Do not put any heavy item on this product. Placing any heavy item on the product can cause a falling down accident or parts damage.
- Do not climb on the product. Climbing on the product can cause falling down accidents. To check the top portion of the product, use a step.
- To avoid electric shock, check to see if door & cover parts are damaged or omitted.
- To avoid electric shock, short circuit and or parts damage, do not put the following items on or in the periphery of the product. Flower vases, flowerpots, cups, water tanks, cosmetics, and receptacles/ containers/vessels containing chemicals and water.



To avoid injury, be sure to provide sufficient space by considering the potentially crowded situation at the installation location. Insufficient installation space can cause making bodily contact with each other, hitting accidents, and or trouble between customers.

### PRECAUTIONS TO BE HEEDED DURING OPERATION (PAYING ATTENTION TO CUSTOMERS)

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



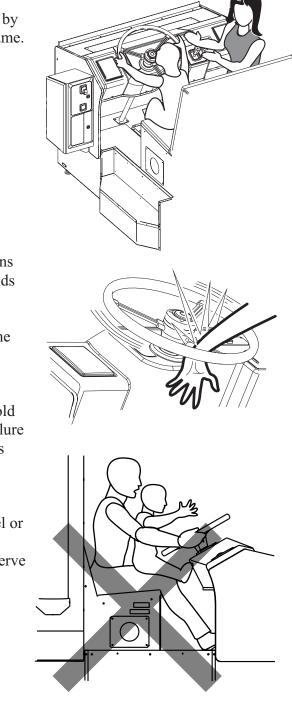
- To avoid injury and accidents, those who fall under the following categories are not allowed to play the game.
  - Those who need assistance such as the use of an apparatus when walking.
  - Those who have high blood pressure or a heart problem.
  - Those who have experienced muscle convulsion or loss of consciousness when playing video game, etc.
  - Those who have a trouble in the neck and or spinal cord.
  - Intoxicated persons.
  - Pregnant women or those who are in the likelihood of pregnancy.
  - Persons susceptible to motion sickness.
  - Persons whose act runs counter to the product's warning displays.
- A player who has never been adversely affected by light stimulus might experience dizziness or headache depending on his physical condition when playing the game. Especially, small children can be subject to those conditions. Caution guardians of small children to keep watch on their children during play.
- Instruct those who feel sick during play to have a medical examination.
- To avoid injury resulting from falling down and electric shock due to spilled drinks, instruct the player not to place heavy items or drinks on the product.
- To avoid electric shock and short circuit, do not allow customers to put hands and fingers or extraneous matter in the openings of the product or small openings in or around the doors.
- To avoid falling down and injury resulting from falling down, immediately stop the customer's leaning against or climbing on the product, etc.
- To avoid electric shock and short circuit, do not allow the customers to unplug the power plug without a justifiable reason.

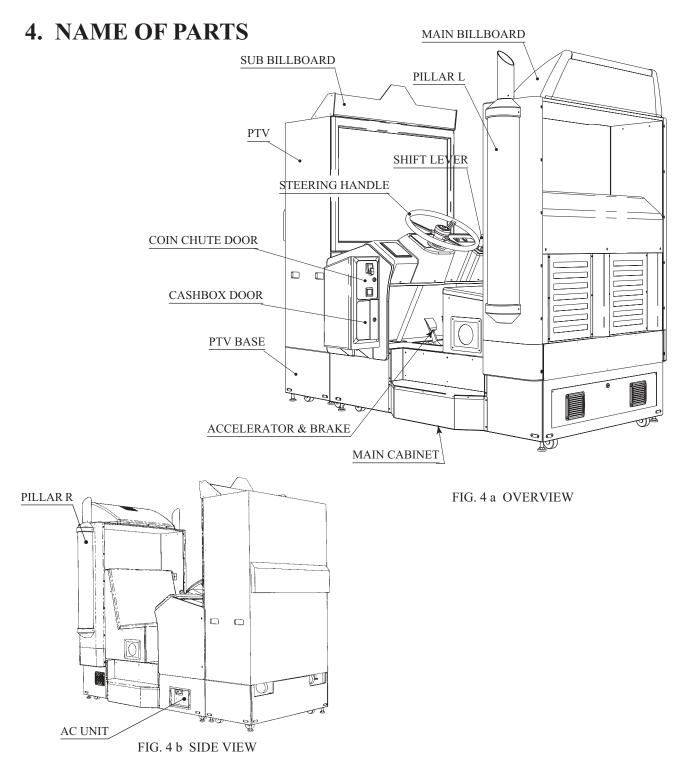


• Immediately stop such violent acts as hitting and kicking the product. Such violent acts can cause parts damage or falling down, resulting in injury due to fragments and falling down.

• Children should be accompanied by their guardians for playing the game.

- The steering wheel has reaction mechanism. Caution the guardians of children so as not to insert hands or arms in between the spokes.
   Failure to observe this can cause injury due to a sudden move of the steering wheel.
- Caution the player so as not to hold a child in his/her lap to play. Failure to observe this may cause injuries resulting from a falling accident.
- Instruct those who wear high-heel or thick-sole shoes to refrain from playing the game. Failure to observe this can cause a sprain.





#### TABLE 4

|                | Width    | Х | Length   | Х | Height   | Weight         |
|----------------|----------|---|----------|---|----------|----------------|
| PTV            | 1,140 mm | Х | 554 mm   | Х | 1,670 mm | 110 kg         |
| PTV BASE       | 1,165 mm | Х | 644 mm   | Х | 387 mm   | 24 kg          |
| MAIN CABINET   | 1,580 mm | Х | 1,880 mm | Х | 1,410 mm | 291 kg         |
| MAIN BILLBOARD | 1,252 mm | Х | 492 mm   | Х | 330 mm   | 16 kg          |
| SUB BILLBOARD  | 1,145 mm | Х | 335 mm   | Х | 260 mm   | 9 kg           |
| PILLAR R       | 170 mm   | Х | 400 mm   | Х | 1,503 mm | 12 kg          |
| PILLAR L       | 170 mm   | Х | 400 mm   | X | 1,503 mm | 12 kg          |
| When assembled | 1,580 mm | Х | ,460 mm  | X | 2,230 mm | Approx. 479 kg |

### **5. ACCESSORIES**

When transporting the machine, make sure that the following parts are supplied.

#### TABLE 5 ACCESSORIES

DESCRIPTION Part No. (Qty.) Note

Figures

OWNERS MANUAL 420-6545-01 (1)

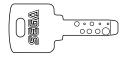
If Part No. has no description, the Number has not been registered or can not be registered. Such a part may not

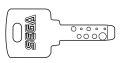
be obtainable even if the customer desires to purchase it. Therefore, ensure that the part is in safekeeping with you. KEY MASTER 220-5576 (2) For opening/closing

the doors

KEY (2)

For the CASHBOX DOOR



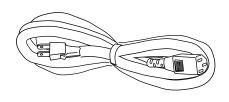


The Keys are inside the Coin Chute Door at the time of shipment from the factory.

SERVICE MANUAL NAOMI ENG 420-6455-01 (1) INSTRUCTION MANUAL FOR THE GAME BOARD

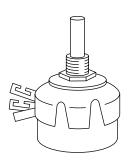
AC Cable (Power Cord) 600-6729 (1) AC 110V AREA 600-6695 (1) AC 120V AREA 600-6618 (1) AC 220 ~ 240V AREA Used for installation, see 5 of Section 6.

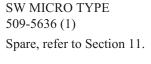
CORD CLAMP 280-5009-01 (1) Used for securing the power cord. see 5 of Section 6.



VOL CONT B-5K OHM 220-5373 220-5484 (1)

Spare, see Section 10, 12.



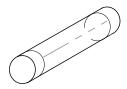




LAMP 14V 3.8W 390-6677-038 (1) Spare, refer to Section 15.

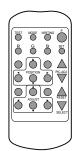


FUSE 6.3A 125V 514-5086-6300 (1) Spare, see Section 17.



### TOSHIBA

Remote Controller used for adjustment of the projector. See Section 14. 200-5536(1)



One of the above 2 types of Remote Controllers is used for the Projector.

The Remote Controller is attached to the Projector at the time of shipment.

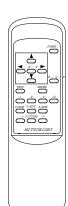
CHECK-SIQE

WONN

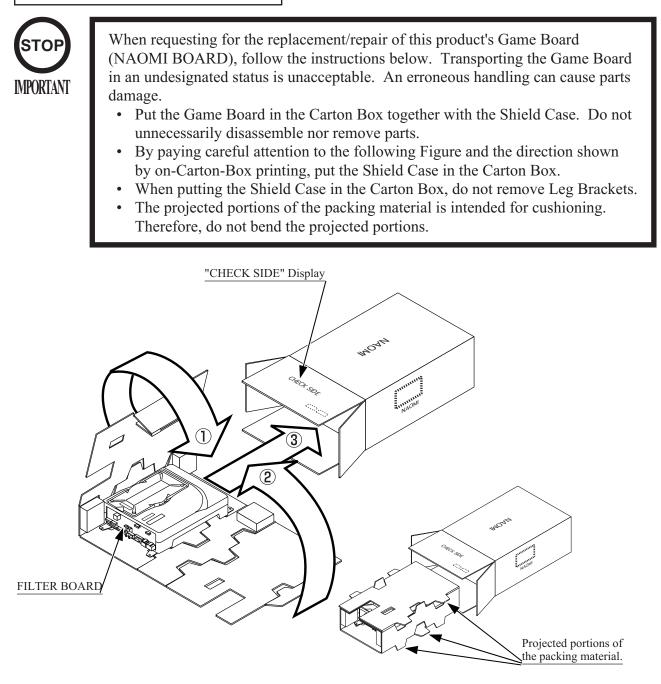
CARTON BOX 601-10532 (1) Used for transporting the Game Board. Refer to Next Page.

#### MITSUBISHI

Remote Controller used for adjustment of the projector. See Section 14. 200-5532(1)



#### HOW TO USE THE CARTON BOX



Fold the packing material in the sequential order of the numbers shown in the Figure, enfold the Shield Case and put it in the Carton Box. Positioning the Shield Case upside down or packing in the manner different from what is shown in this Figure can cause the Game Board and other parts to be damaged.

# 6. ASSEMBLING AND INSTALLATION

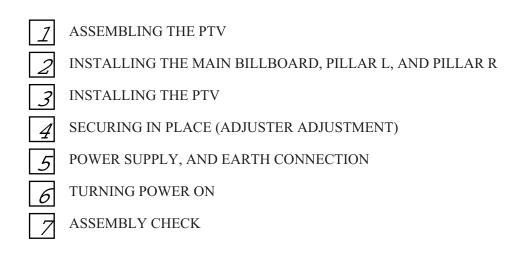


- Perform assembly work by following the procedure herein stated. Failing to comply with the instructions can cause electric shock hazard.
- Perform assembling as per this manual. Since this is a complex machine, erroneous assembling can cause an electric shock, machine damage and or not functioning as per specified performance.
- When assembling, be sure to use plural persons. Depending on the assembly work, there are some cases in which working by one person alone can cause personal injury or parts damage.
- Ensure that connectors are accurately connected. Incomplete connections can cause electric shock hazard.
- Be careful so as not to damage wirings. Damaged wiring can cause electric shock and short circuit hazards.
- Do not carelessly push the PTV. Pushing the PTV carelessly can cause the PTV to fall down.
- This work should be performed by the Location's Maintenance Man or Serviceman. Performing work by non-technical personnel can cause a severe accident such as electric shock. Failing to comply with this instruction can cause a severe accident such as electric shock to the player during operation.
- Provide sufficient space so that assembling can be performed. Performing work in places with narrow space or low ceiling may cause an accident and assembly work to be difficult.

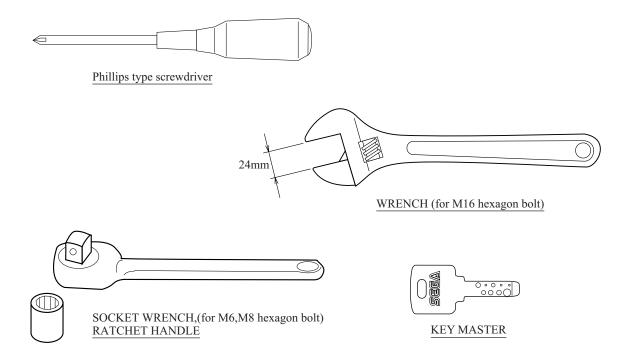


- When handling plastic parts, use care. Do not give a shock or apply excessive load to the fluorescent lamps and plastic parts. Failure to observe this can cause parts damage, resulting in injury due to fragments, cracks and broken pieces.
- To perform work safely and securely, be sure to prepare a step which is in a secure and stable condition. Performing work without using the step can cause violent falling down accidents.
- The PTV screen is susceptible to damage. Use care when handling the PTV. If damaged, repair can not be performed.

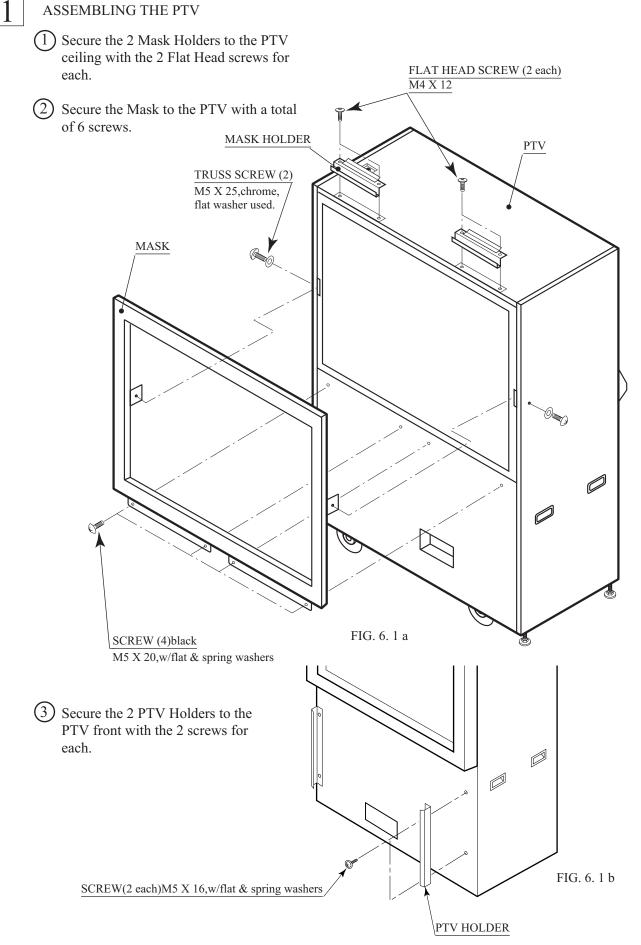
When carrying out the assembly work, follow the procedure in the following 7-item sequence:



When assembling, make sure that tools such as a Phillips type screwdriver, wrench (for M16 hexagon bolt), socket wrench (M6, M8 hexagon bolt), ratchet handle, and the master key are available.





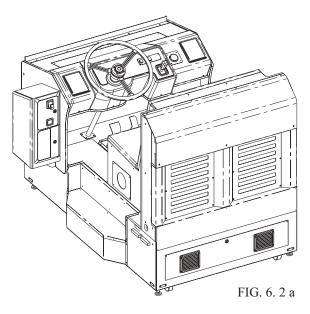


### INSTALLING THE MAIN BILLBOARD, PILLAR L, AND PILLAR R

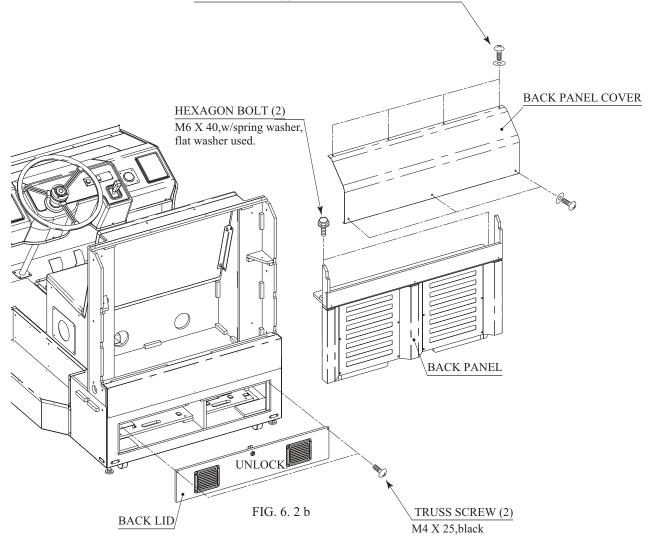
1 Take out the 7 truss screws to remove the BACK PANEL COVER from the back of main cabinet.

2

- 2 Take out the 2 hexagon bolts to remove the BACK PANEL from the back of main cabinet.
- (3) Take out the 2 truss screws, unlock the lock, and remove the BACK LID.







4 Install the PILLAR L and PILLAR R to the left & right sides of main cabinet and secure with the 6 hexagon bolts for each. Fasten the 2 bolts from inside the BACK LID. The PILLAR R has wiring. Check with the connector portion. Install the PILLAR L to the left side and the PILLAR R to the right-hand side of main cabinet when facing from the PTV screen. Fasten the bolts while another person supporting the PILLAR.

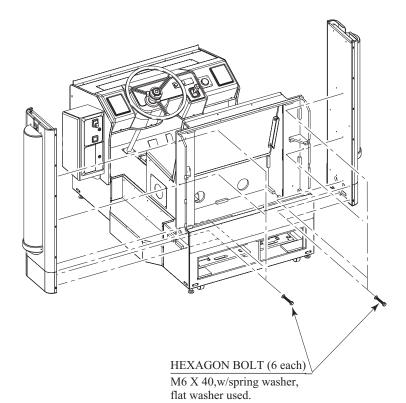


FIG. 6. 2 c

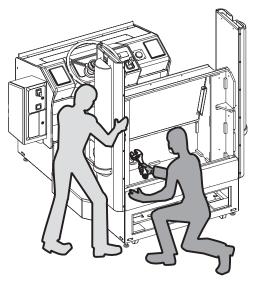
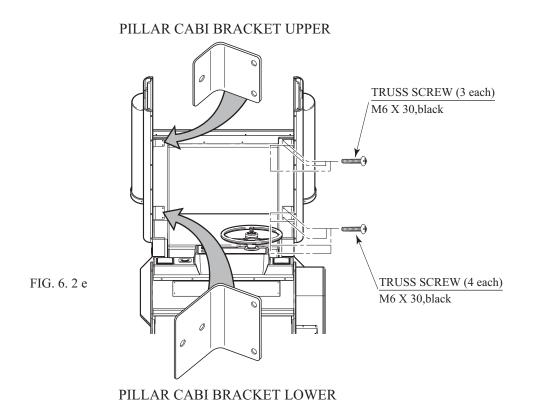
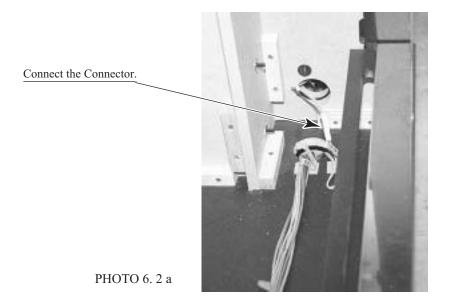


FIG. 6. 2 d

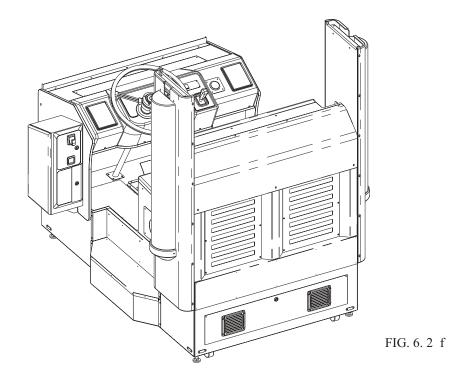
(5) To secure the PILLAR, install the L-shaped Bracket from the seat side. Secure the PILLAR CABI BRACKET UPPER with the 3 truss screws and the PILLAR CABI BRACKET LOWER with the 4 truss screws. Perform this on the both sides.



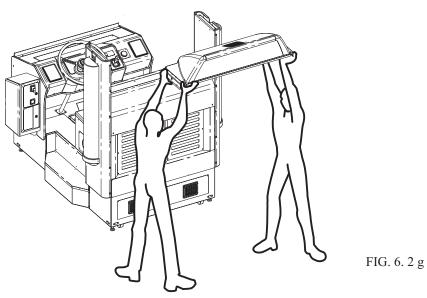
6 Connect the PILLAR R's wire connector to the main cabinet's connector.



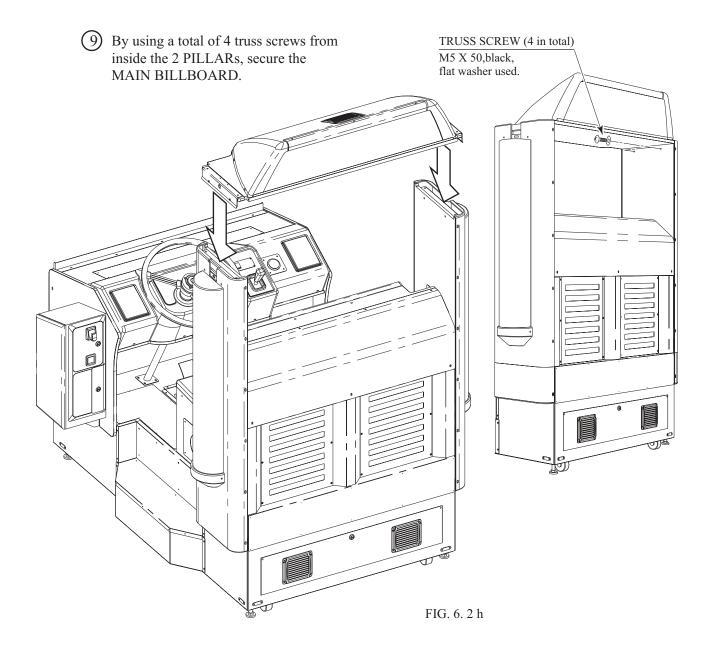
(7) Install the BACK PANEL, the BACK PANEL COVER, and the BACK LID to the main cabinet back.

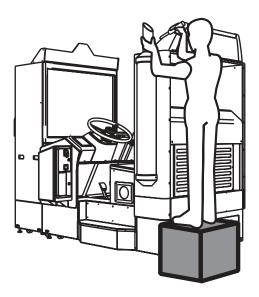


8 Lift the MAIN BILLBOARD onto the 2 PILLARs by 2 persons. Use care so as not to pinch hands or damage wire.



For performing work, use 2 or more workers.





When performing work, be sure to use a step.

(10) Secure the END CAP BRACKET to the PILLAR with the 2 screws. Perform this on the both sides.

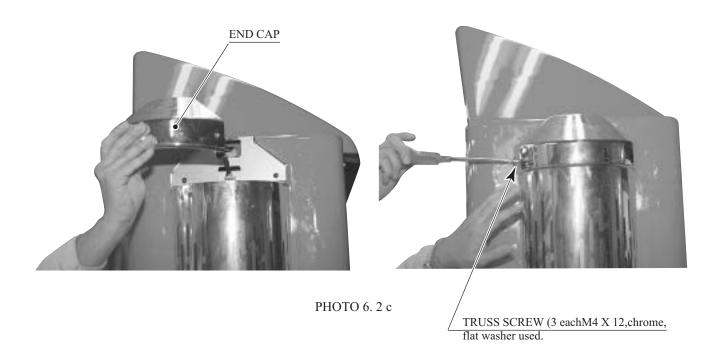
(11) Connect the wire connector of the MAIN BILLBOARD to the connector of the PILLAR R.

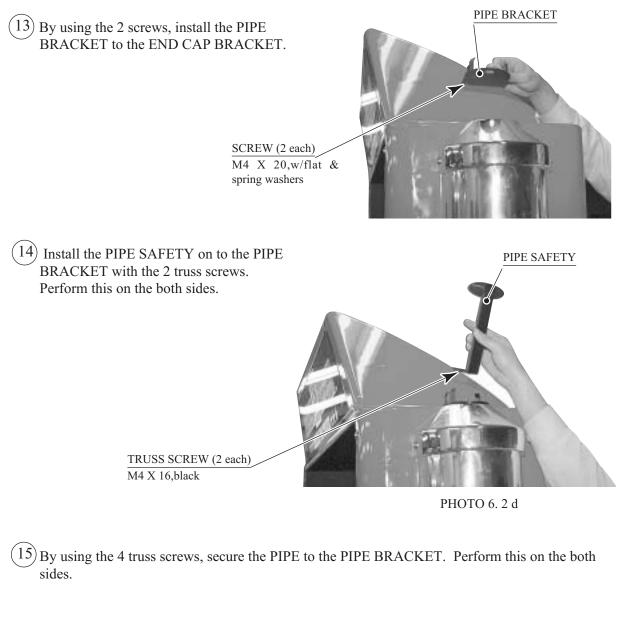


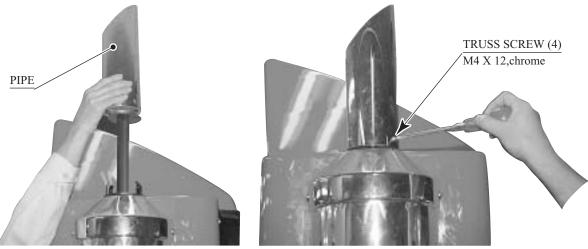




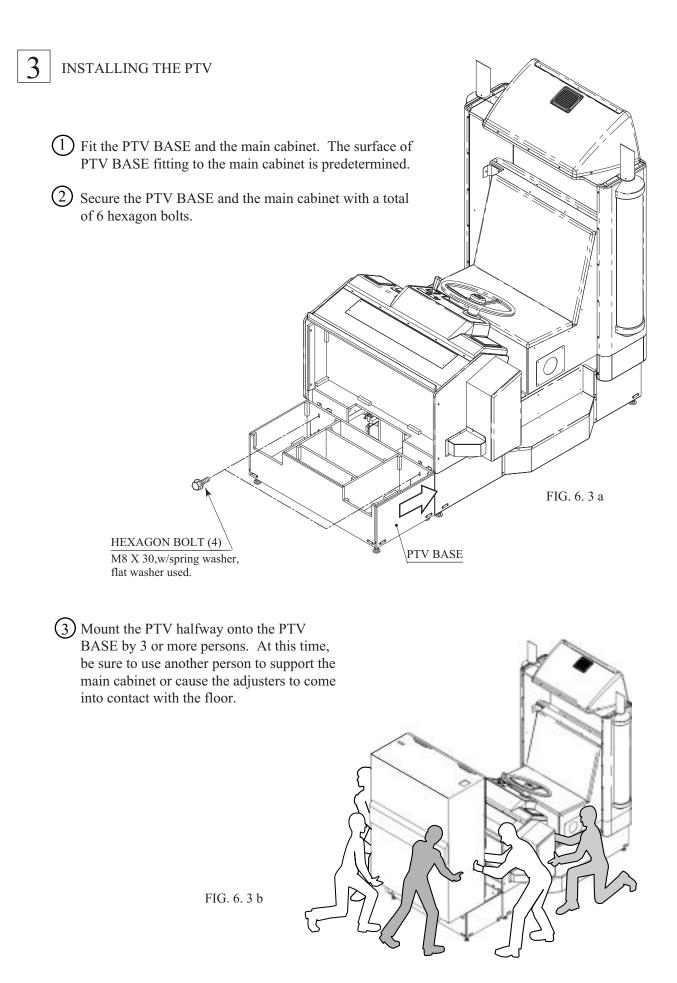
(12) By using the 3 truss screws, install the END CAP to the END CAP BRACKET. Perform this on the both sides.

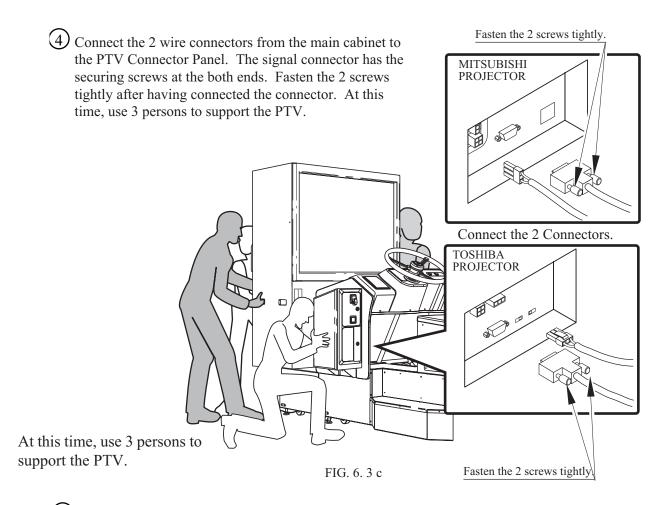






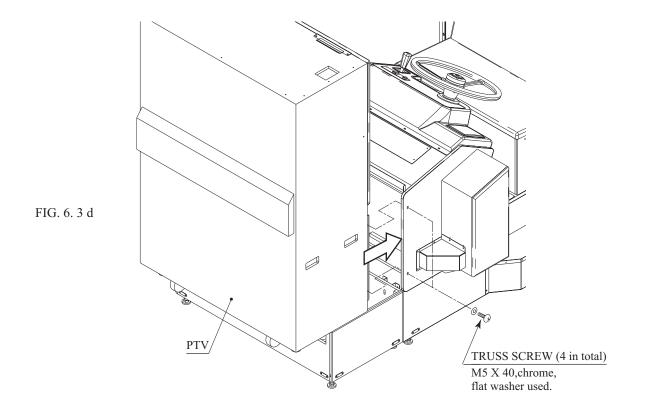




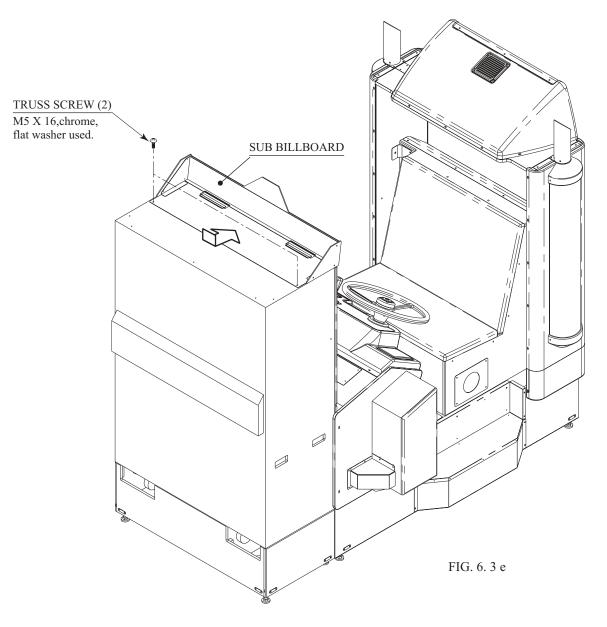


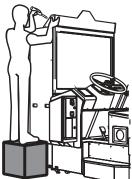
5 Fit the PTV to the main cabinet. Use care so as not to damage wiring at this time.

6 Secure the joining portion of the PTV and the main cabinet with a total of 4 screws.



7 Install the SUB BILLBOARD to the PTV ceiling. Insert the SUB BILLBOARD to the 2 Mask Holders on the PTV ceiling and secure with the 2 truss screws. To perform work safely and securely, be sure to use a step. Do not step on the PTV or the main cabinet to perform work.





When performing work, be sure to use a step.

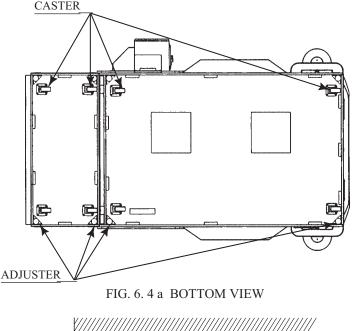


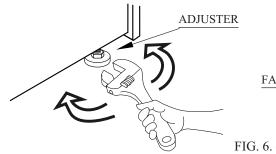


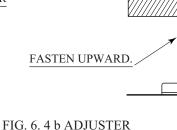
Make sure that all of the adjusters are in contact with the floor. If they are not, the cabinet can move and cause an accident.

This product has 8 casters (4 for PTV BASE, 4 for MAIN CABINET) and 8 Adjusters (4 for PTV BASE, 4 for MAIN CABINET). (FIG. 6. 4 a) When the installation position is determined, cause the 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. CASTER\_

- 1 Transport the product to the installation position. Be sure to provide adequate space allowing the player to get on and off.
- 2 Have all of the Adjusters make contact with the floor. Adjust the Adjuster's height by using a wrench so that the machine position is kept level.
- (3) After making adjustment, fasten the Adjuster Nut upward and secure the height of Adjuster (FIG. 6. 3 b).







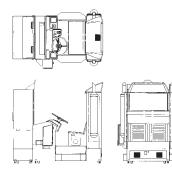
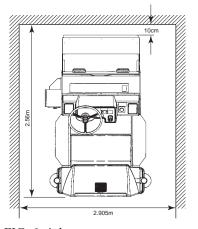


FIG. 6. 4 c Refer to this Fig. (Scale:1/100) for the layout of the place of installation.



ADJUSTER

CASTER

Approx.5mm

FIG. 6. 4 d Be sure to provide space as shown between the Air Vent and the wall surface.

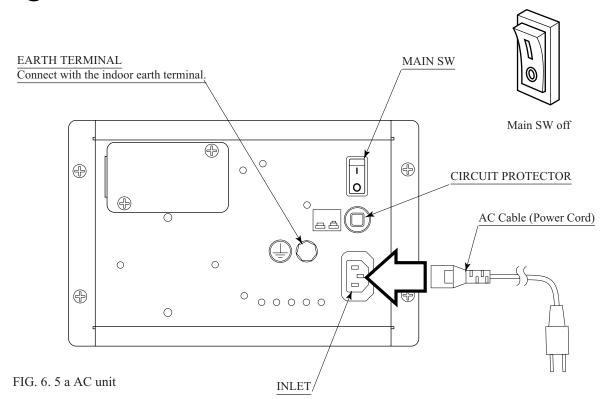


### POWER SUPPLY, AND EARTH CONNECTION



- Be sure to independently use the power supply socket outlet equipped with an Earth Leakage Breaker. Using a power supply without an Earth Leakage Breaker can cause a fire when electric leakage occurs.
- Ensure that the "accurately grounded indoor earth terminal" and the earth wire cable are available (except in the case where a power cord plug with earth is used). This product is equipped with the earth terminal. Connect the earth terminal and the indoor earth terminal with the prepared cable. If the grounding work is not performed appropriately, customers can be subjected to an electric shock, and the product's functioning may not be stable.
- Ensure that the power cord and earth wire are not exposed on the surface (passage, etc.). If exposed, they can be caught and are susceptible to damage. If damaged, the cord and wire can cause electric shock and short circuit accidents. Ensure that the wiring position is not in the customer's passage way or the wiring has protective covering.
- After wiring power cord on the floor, be sure to protect the power cord. Exposed power cord is susceptible to damage and causes an electric shock accident.

The AC Unit is mounted on the left side of the machine. The AC Unit has Main SW, Circuit Protector and the Inlet which connects the Power Cord.



Ensure that the Main SW is OFF.

(2) Connect one end of the earth wire to the AC Unit earth terminal, and the other end to the indoor earth terminal. The AC Unit earth terminal has a Bolt and Nut combination. Take off the Nut, pass the end of earth wire through the Bolt, and fasten the Nut.

Note that the Earth Wire is incorporated in the Power Cord for the Areas of AC 120V (USA) and AC 220Å'240V, and therefore, this procedure is not necessary.

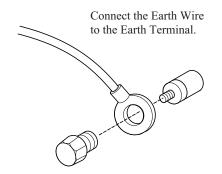


FIG. 6. 5 b Earth Wire Connection

(3) Firmly insert the power plug into the socket outlet. Insert the opposite side of Power Cord plug to the AC Unit's connector ("INLET").

4) Perform wiring for the Power Cord and Earth Wire. Install protective covering for the Power Cord and Earth Wire.

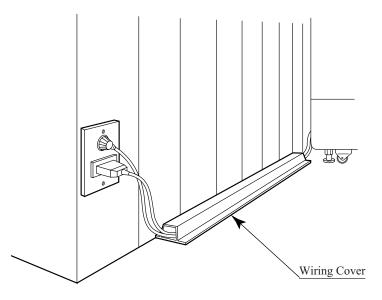
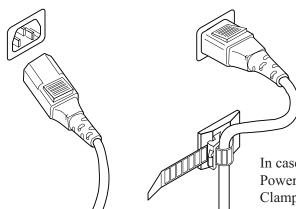


FIG. 6. 5 c Connecting Power Cord and Earth Wire



In case the Power Plug is apt to come out of place, secure the Power Cord to the periphery of the AC Unit with the Cord Clamp (an accessory).

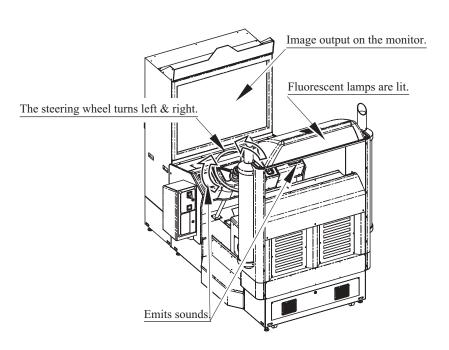
HOW TO USE THE CORD CLAMP

### TURNING POWER ON

6

Turn the AC Unit's main switch on to supply power. When power is turned on, the fluorescent lamp inside the MAIN BILLBOARD lights up. The monitor displays NAOMI SYSTEM boot up and then proceeds to the advertise mode. During this time, the initialization setting is automatically performed. Do not touch the machine until the advertise mode is displayed on the monitor after finishing the initialization setting. While initializing, the steering wheel turns left & right and stops at the centering position. In the initialization setting, the values of V.R. inside the control panel are corrected. Until the initialization is finished (the steering wheel stops automatically), do not touch the steering wheel or play the game. If you do, the steering wheel reaction during the game (reaction at the time of a course-out or crashing) can not be obtained correctly. In case of an abnormal reaction during the game, turn the power on again from the beginning and complete the initialization setting.

In this product, once the power is turned off, the data of inserted coins less than one credit and BONUS ADDER is cleared. In the advertise mode, sound is emitted from the 2 speakers. Sound is not emitted if set to NO SOUND OUTPUT in the test mode.





### ASSEMBLING CHECK

In the TEST MODE, ascertain that the assembly has been made correctly and IC BD. is satisfactory (refer to Section 9). In the test mode, perform the following test:

(1) MEMORY TEST

#### MEMORY TEST MODE

RAM TEST

IC29 GOOD IC34 GOOD IC16 GOOD IC18 GOOD IC20 GOOD IC22 GOOD IC9 GOOD IC10 GOOD IC11 GOOD IC12 GOOD

PRESS TEST BUTTON TO CONTINUE

Selecting the desired RAM TEST item on the test mode menu screen causes the on-board memory to be tested automatically. The game board is satisfactory if the display beside each IC No. shows GOOD.

(2) C.R.T. TEST

C.R.T. TEST PAGE 1/2

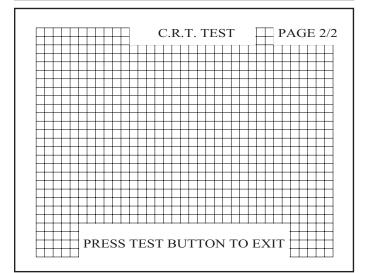
RED

GREEN

BLUE

WHITE

#### PRESS TEST BUTTON TO CONTINUE



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 in the periphery. By watching the test mode screen, make judgment as to whether an adjustment is needed. If it is necessary, adjust the monitor by referring to Section 14.

#### (3) INPUT TEST

|                                     | INPUT TF                       | ST            |  |  |  |
|-------------------------------------|--------------------------------|---------------|--|--|--|
|                                     |                                |               |  |  |  |
|                                     | COIN CHUTE #1<br>COIN CHUTE #2 | OFF           |  |  |  |
|                                     | SERVICE                        | OFF           |  |  |  |
|                                     | TEST                           | OFF           |  |  |  |
|                                     | START                          | OFF           |  |  |  |
|                                     | VIEW                           | OFF           |  |  |  |
|                                     | HORN                           | OFF           |  |  |  |
|                                     | SHIFT [L]                      | OFF           |  |  |  |
|                                     | SHIFT [H]                      | OFF           |  |  |  |
|                                     | SHIFT [R]                      | OFF           |  |  |  |
|                                     | HANDLE                         | XXH           |  |  |  |
|                                     | ACCEL                          | XXH           |  |  |  |
|                                     | BRAKE                          | XXH           |  |  |  |
|                                     |                                |               |  |  |  |
|                                     |                                |               |  |  |  |
|                                     |                                |               |  |  |  |
| PRESS TEST + SERVICE BUTTON TO EXIT |                                |               |  |  |  |
| PI                                  | ALSS TEST + SERVICE            | BOTTON TO EAT |  |  |  |
|                                     |                                |               |  |  |  |

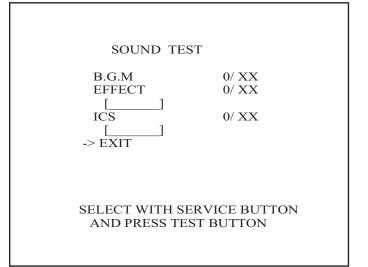
(4)OUTPUT TEST

| OUTPUT TEST      |             |
|------------------|-------------|
|                  |             |
| START LAMP       | OFF         |
| VIEW LAMP        | OFF         |
| HORN LAMP        | OFF         |
| ROLL LEFT        | OFF         |
| ROLL RIGHT       | OFF         |
|                  |             |
|                  |             |
| ->EXIT           |             |
|                  |             |
|                  |             |
|                  |             |
|                  |             |
|                  |             |
|                  |             |
|                  |             |
| SELECT WITH SERV | VICE BUTTON |
| AND PRESS 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.

Select OUTPUT TEST from the menu in the test mode to cause the screen (on which each lamp and wiring connections are tested) to appear. Ensure that lamp light up satisfactorily.

(5)SOUND TEST



In the TEST mode, selecting SOUND TEST causes the screen (on which sound related BD and wiring connections are tested) to be displayed.

Check if the sound is satisfactorily emitted from each speaker and the sound volume is appropriate.

Perform the above inspections also at the time of monthly inspection.

## 7. PRECAUTIONS TO BE HEEDED WHEN MOVING THE MACHINE



• When moving the machine, be sure to unplug the power plug. Moving the machine with the plug as is inserted can damage the power cord and cause fire and electric shock hazards.

- When moving the machine on the floor, retract the Adjusters and ensure that Casters make contact with the floor. During transportation, pay careful attention so that Casters do not tread power cords and earth wires. Damaging the power cords can cause electric shock and short circuit hazards.
- When lifting the cabinet, be sure to hold the grip portions or bottom part. Lifting the cabinet by holding other portions can damage parts and installation portions due to the empty weight of the cabinet, and cause personal injury.
- When transporting the product in places with step-like differences in grade, disassemble into each unit before transporting. Lifting up the product in an attempt to cross the step-like differences in an as is assembled condition may damage the unit's joining portions and cause a personal injury resulting from damage.
- When moving the PTV, do not push it from the rear side. Push it from sideways. Pushing the PTV from the rear side can have the PTV fall down, causing personal injury etc. In case the floor has slanted surfaces or step-like differences, be sure to move the machine by 2 or more persons.
- Do not insert the fork to places other than designated when using a Forklift to transport the machine.

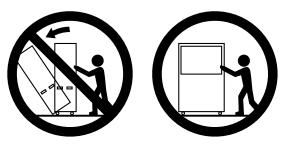
Failure to observe this could cause falling down and injury resulting from falling down.



Do not push the plastic made parts. Failure to observe this may damage parts and cause injury due to fragments resulting from damage.



- When transporting the product in places with steps, disassemble into each unit before transporting. Inclining the product in an as is assembled condition or placing the cabinet in places with steps can damage the unit's joining portions.
- To protect surface, do not directly apply a rope to the surfaces of product. Use protective materials to the places the rope is applied to.



Do not push PTV from the back. Pushing the PTV from the back can cause the PTV to fall down. Push it from the side.

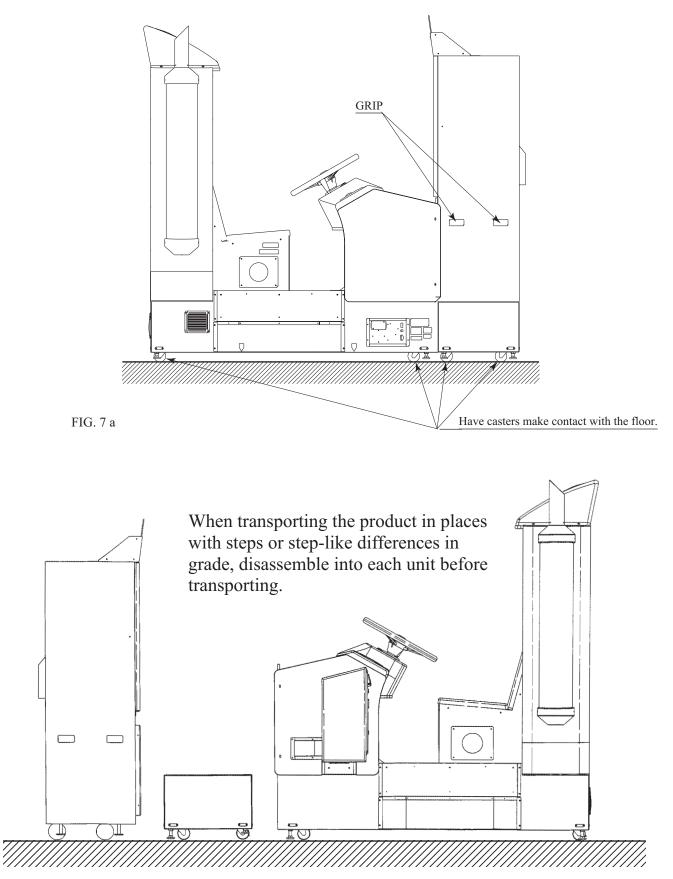
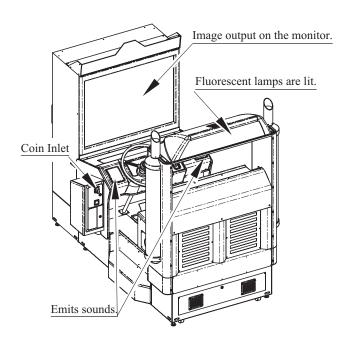


FIG. 7 b

# 8. CONTENTS OF GAME

The following explanations apply to the case the product is functioning satisfactorily. Should there be any moves different from the following contents, some sort of faults may have occurred. Immediately look into the cause of the fault and eliminate the cause thereof to ensure satisfactory operation.

When the product is energized, the Billboard's fluorescent lamp is always lit. During the advertise mode, the advertise screen is shown on the monitor and sound is emitted from the speakers. Setting to No Sound Output during the advertise is possible in the TEST mode.



#### OUTLINE OF THE GAME

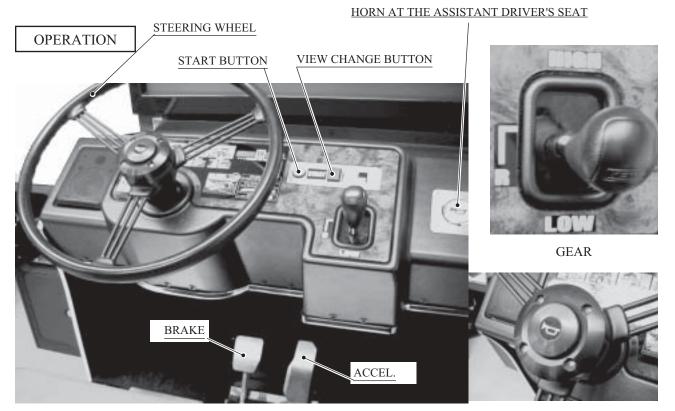
- This is a single, driving game in which the player competes with rivals by driving a Trailer Truck to cross America.
- When coins are inserted to gain credits, the START button starts flashing. Press the START button to proceed to the SELECTOR mode where you can select your truck and trailer. The game starts upon selecting the truck and the trailer.
- Based on the setting made in the test mode, the number of coins inserted to obtain a credit counts as one credit in this product. The number of credits necessary to start game and to continue game can be set in the test mode.
- The game consists of the 4 kinds of stages and 3 kinds of parking stages (Bonus stages).
- When continued, game is played at the beginning of the latest stage where you result in game over.
- If your score falls within the top 5, you can enter your name.

#### CONTENTS OF GAME

- Pass the checking point within a certain period of time and reach the goal, and you can clear the stage.
- The game finishes when clearing all 4 stages.
- If you can reach the goal ahead of your rival trailers in each stage(the 1st through the 3rd), you can play Parking game (Bonus game).

#### GAME OVER

- If you fail to pass the checking point within a certain period of time or fail to goal, game is over.
- Getting behind the rival trailers at the checking point or failing on the Parking game does not result in game over.



CONTROL PANEL and ACCEL. & BRAKE

HORN AT THE DRIVER'S SEAT

<STEERING WHEEL>

SELECTOR : Turn right or left to select an object.

GAME PLAY : Operate the Trailer Truck.

#### <HORN AT THE DRIVER'S SEAT>

SELECTOR : Decide

GAME PLAY : Blow the horn to signal the car ahead to move out of the way or to have it increase the speed. Have the trailer ahead increase the speed.

#### <ACCEL..>

SELECTOR : Decide

GAME PLAY : Increase your Trailer Truck speed.

#### <BRAKE>

SELECTOR : Void

GAME PLAY : Decrease your Trailer Truck speed, or stop it.

<GEAR>

```
SELECTOR : Void
```

GAME PLAY : 3-position, HI (High), LOW, R (Reverse)

#### <VIEW CHANGE>

SELECTOR : Void

GAME PLAY : Select either Driver's View or Bird View.

#### <START BUTTON>

The START button flashes when the number of coins that are worth one credit are inserted. While flashing, press the START button to proceed to the SELECTOR.

It also flashes when one or more credit(s) remains after the game over.

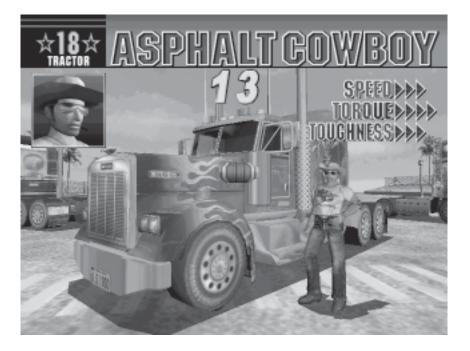
#### <HORN AT THE ASSISTANT DRIVER'S SEAT>

SELECTOR : Decide

GAME PLAY : Signal the car ahead to move the way or to increase the speed. Signal the trailer ahead to increase the speed. This has the same effect with the horn at the driver's seat.

### TRUCK SELECT

Select the truck from among ASPHALT COWBOY, STREAMLINE, HIGHWAY CAT, LONG HORN, and NIHONMARU (not available for Korea version). Each truck's abilities in SPEED, TORQUE, and TOUGHNESS differ.



#### TRAILER SELECT

When starting in the stages 2, 3, and 4, select the trailer for towing from the 2 trailers. The weight, the length, and the transportation fee differ. The heavier the trailer, the more the difficulty.

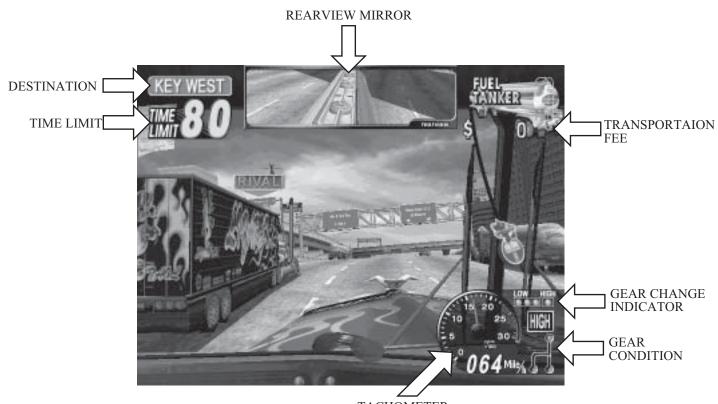


## NAME ENTRY

If your score falls within the top 5, you can enter your name.



VIEWING THE GAME SCREEN



TACHOMETER

#### <DESTINATION>

Name of the destination point.

#### <TIME LIMIT>

Indicates the player's playable time. Additional time will be added when passing the CHECKPOINT and obtaining TIME BONUS.

#### <REARVIEW MIRROR>

Indicates the rear condition while DRIVER'S VEIW is being selected.

#### <TRANSPORTATION FEE>

Indicates the fee you receive when you reach the destination. If you give damage to the trailer by hitting another car, etc., the fee will be reduced.

#### <TACHOMETER>

Indicates speed of rotation.

#### <GEAR CHANGE INDICATOR>

Indicates the gear condition (4 positions in total) with the lamp on the monitor.

#### <GEAR CONDITION>

Indicates the current gear condition. The three types of gears (REVERSE • LOW • HI) are available.

# 9. 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 correctly, perform checking in accordance with the explanations given in this section.

The following shows tests and modes that should be utilized as applicable. NAOMI GAME BOARD is used for the product. The system of this game board allows another game to be played by replacing the ROM Board Case mounted on the NAOMI CASE. As such, the Test Mode of this system consists of the System Test Mode for the system to execute SELF-TEST, COIN ASSIGNMENTS, etc. used in common for the machines employing the NAOMI BOARD, and the Game Test Mode for the specific product to execute Input/Output test for the operation equipment, difficulty setting, etc. In this manual, explanations regarding the System Test Mode cover the settings for this product only. For the details of the System Test Mode, refer to NAOMI SERVICE MANUAL, an accessory.

| ITEMS                      | DESCRIPTION  | REFERENCE<br>SECTIONS                           |
|----------------------------|--|---|
| INSTALLATION<br>OF MACHINE | <ul> <li>When the machine is installed, perform the following:</li> <li>1. Check to ensure each is the standard setting at shipment.</li> <li>2. Check each Input equipment in the INPUT TEST mode.</li> <li>3. Check each Output equipment in the OUTPUT TEST mode.</li> <li>4. Test on-IC-Board IC's in the SELF-TEST mode.</li> </ul> | S E R V I C E<br>MANUAL<br>9-3E<br>9-3B<br>9-3C |
| MEMORY                     | This test is automatically executed by selecting RAM TEST, or ROM BOARD TEST in the Menu mode.   | SERVICE<br>MANUAL                               |
| PERIODIC<br>SERVICING      | <ul> <li>Periodically perform the following:</li> <li>1. MEMORY TEST</li> <li>2. Ascertain each setting.</li> <li>3. To test each Input equipment in the INPUT TEST mode.</li> <li>4. To test each Output equipment in the OUTPUT TEST mode.</li> </ul>  | S E R V I C E<br>MANUAL                         |
| CONTROL<br>SYSTEM          | <ol> <li>To check each Input equipment in the INPUT TEST mode.</li> <li>Adjust or replace each Input equipment.</li> <li>If the problem still remains unsolved, check each equipment's mechanism movements.</li> </ol>   | S E R V I C E<br>MANUAL<br>9-3E<br>9-3B<br>9-3C |
| MONITOR                    | In the Monitor Adjustment mode, check to see if Monitor (Projec-<br>tor) adjustments are appropriate.  | S E R V I C E<br>MANUAL<br>9-3B,F 10,11,12      |
| IC BOARD                   | <ol> <li>MEMORY TEST</li> <li>In the SOUND TEST mode, check the sound related ROMs.</li> </ol>   | SERVICE<br>MANUAL<br>14                         |
| DATA CHECK                 | Check such data as game play time and histogram to adjust the difficulty level, etc.   | S E R V I C E<br>MANUAL<br>9-3D                 |
|                            |  | SERVIC  |

#### TABLE 9EXPLANATION OF TEST MODE

S E R V I C E MANUAL

<sup>9-3</sup>G

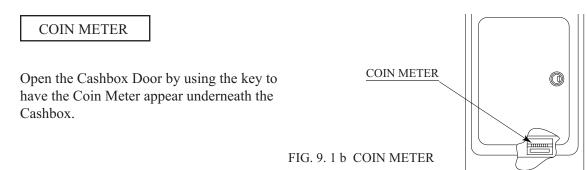
#### 9 - 1 SWITCH UNIT AND COIN METER



Never touch places other than those specified. Touching places not specified can cause electric shock and short circuit accidents.

Adjust to the optimum sound volume by considering the environmental requirements of the installation location. If the COIN METER and the game board are electrically disconnected, game IMPORTANT play is not possible. SPEAKER VOLUME For SUPER WOOFER TEST BUTTON SPEAKER VOLUMEFor SPEAKERS at the CONTROL PANEL left & right. SERVICE BUTTON SWITCH UNIT Open the coin chute door, and the switch unit shown will appear. The function of each SW is as follows: SUPER WOOFER SPEAKER TEST SERVICE FIG. 9. 1 a SWITCH UNIT Sound volume can be adjusted for the CONTROL PANEL left & right SPEAKER VOLUME: SPEAKER speakers. SPEAKER VOLUME: Sound volume can be adjusted for the SUPER WOOFER and the SUPER WOOFER BASE SHAKER under the seat. **TEST BUTTON:** Enters to the test mode. TEST

> SERVICE BUTTON: Gives credits without registering on the coin meter. SERVICE



www.seuservice.com

#### 9 - 2 SYSTEM TEST MODE



- The contents of settings changed in the TEST mode are stored when the test mode is finished from EXIT in the menu mode. If the power is turned off before the TEST mode is finished, the contents of setting change become ineffective.
- Executing "BACKUP DATA CLEAR" in the SYSTEM TEST MODE does not clear the BOOKKEEPING data in the GAME TEST mode.
- Entering the TEST mode clears fractional number of coins less than one credit and BONUS ADDER data.
- Perform setting as per specified in this manual for operation. If setting not specified is performed for operation, proper function of this product may not be obtained.

In the SYSTEM TEST MODE, IC BD functioning can be checked, the monitor adjusted, and the coin setting performed.

Refer to NAOMI SERIVCE MANUAL for the details. Note that the setting of the following items need to be performed in accordance with the instruction given.

CABINET TYPE : 1 PLAYER(S)
 MONITOR TYPE : HORIZONTAL
 SERVICE TYPE : COMMON
 COIN CHUTE TYPE : COMMON

www.seuservice.com

#### 9-3 GAME TEST MODE

#### A. GAME TEST MODE MENU (MAIN MENU)

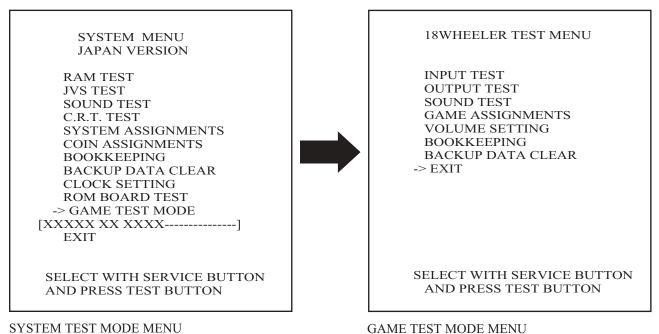


FIG. 9. 3 a MENU MODE

- Press the TEST button to indicate the SYSTEM TEST MODE MENU screen.
- Bring the arrow by pressing the SERVICE button and select the GAME TEST MODE. Press the TEST button to indicate the GAME TEST MODE MENU screen.
- By pressing the SERVICE button, bring the arrow and select an item. Press the TEST button to enter the test item.
- Select EXIT and press the TEST button to finish the GAME TEST MODE. The screen returns to the SYSTEM TEST MODE MENU screen. Select EXIT in this mode and press the TEST button to finish the SYSTEM TEST MODE. The screen returns to the game mode.

| When the INPUT TEST is selected, the following screen is displayed on the | monitor. |
|---|----------|
|   |          |

| INPUT TES   | ST  |
|---|---|
| COIN CHUTE #1<br>COIN CHUTE #2<br>SERVICE<br>TEST<br>START<br>VIEW<br>HORN<br>SHIFT [L]<br>SHIFT [H]<br>SHIFT [R]<br>HANDLE<br>ACCEL<br>BRAKE | OFF<br>OFF<br>OFF<br>OFF<br>OFF<br>OFF<br>OFF<br>OFF<br>XXH<br>XXH<br>XXH |
| PRESS TEST + SERVIC   | E BUTTON TO EXIT  |

- When pressing each switch, if the display next to the item changes to ON from OFF, the switch and the wiring connection are satisfactory.
- To check COIN CHUTE #1 & #2, open the COIN CHUTE DOOR and insert coins.
- "HORN" is for the driver seat and the assistant driver seat. Because the same circuit is used for HORN in the driver and the assistant driver seats, if the switch and the wiring connection are satisfactory, pressing the HORN at either side changes the display to ON from OFF.
- For the steering wheel, the accelerator, and the brake, operate each input device and check to see if the value changes in accordance with operation. Items to be checked: Each switch (COIN/ SERVICE/ TEST/ START/ VIEW CHANGE/ HORN/ SHIFT <H L R>) Each volume (STEERING WHEEL/ ACCELERATOR/ BRAKE)
- Press the SERVICE and TEST buttons simultaneously to return to the MENU screen.

#### C. OUTPUT TEST

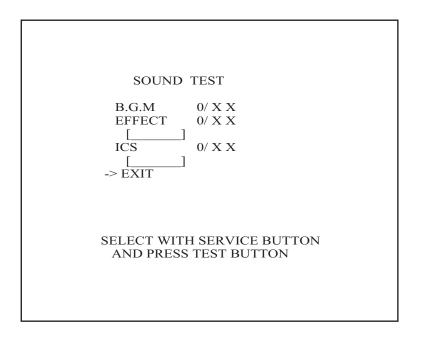
Selecting the OUTPUT TEST displays the following screen on the monitor. The condition of each lamp and motor can be checked.

| OUTPUT TEST   |                          |
|---|--------------------------|
| START LAMP<br>VIEW LAMP<br>HORN LAMP<br>ROLL LEFT<br>ROLL RIGHT<br>->EXIT | OFF<br>OFF<br>OFF<br>OFF |
|   |                          |
| SELECT WITH SERV<br>AND PRESS TEST F                                      |                          |

- Bring the arrow to the desired item and press the TEST button. The display next to the item changes to ON from OFF, the lamp lights up, and the motor functions.
  - LAMP item : If the lamp lights up, operation is satisfactory.
  - ROLL LEFT : If the motor moves so as to turn the steering wheel counterclockwise, operation is satisfactory.
  - ROLL RIGHT : If the motor moves so as to turn the steering wheel clockwise, operation is satisfactory.
- Bring the arrow to EXIT and press the TEST button to return to the MENU screen.

#### D. SOUND TEST

Selecting the SOUND TEST displays the following screen on the monitor. In this mode, sounds used in the game can be checked.



- Move the arrow by pressing the SERVICE button and select an item. Every time the TEST button is pressed, different sound is played.
  - B.G.M. : Sound used in the game can be played.
  - EFFECT : Sound effects used in the game can be played.
  - ICS : Sound effects in a loop used in the game can be played.
- Bring the arrow to EXIT and press the TEST button to return to the MENU screen.

Selecting the GAME ASSIGNMENTS displays the following screen on the monitor. Setting for the game can be performed.

The contents of setting changes will be effective when the TEST MODE is finished properly. If the setting changes are made, be sure to exit from the TEST MODE.

| GAME ASSIGNMENTS  |  |
|---|--|
| START TIME [VERY EASY]<br>CHECK POINT TIME [VERY EASY]<br>MOTOR POWER [LIGHT] |  |
| DEFAULT SETTING   |  |
| -> EXIT   |  |
| SELECT WITH SERVICE BUTTON<br>AND PRESS TEST BUTTON                           |  |

| • | START TIME       | : | Time limit given to the player at the beginning of the stage can<br>be set. Select from among VERY EASY, EASY, NORMAL,<br>HARD, and VERY HARD. |
|---|------------------|---|--|
| • | CHECK POINT TIME | : | The additional time given to the player when passing the CHECK POINT can be set.   |
| • | MOTOR POWER      | : | The feedback stiffness of the steering wheel can be selected from among LIGHT, NORMAL, and HEAVY.  |
| • | DEFAULT SETTING  | : | This makes each setting return to its default setting.   |

Bring the arrow to EXIT and press the TEST button to return to the MENU screen.

#### F. VOLUME SETTING

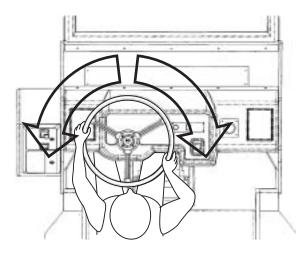
Selecting the VOLUME SETTING displays the following screen on the monitor. The volume detecting the steering wheel operation can manually be set. The value can be stored when exiting from the item.

| VOLUME SETTING                                      |  |
|---|--|
| HANDLE SETTING<br>SET CENTER [LOCK] 00H             |  |
|   |  |
|   |  |
| -> EXIT   |  |
| SELECT WITH SERVICE BUTTON<br>AND PRESS TEST BUTTON |  |
|   |  |
|   |  |

#### SETTING THE STEERING WHEEL VOLUME

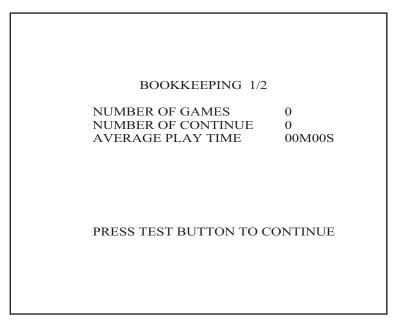
- (1) Press the SERVICE button to bring the arrow to SET CENTER.
- 2) "SET CENTER [LOCK]" display changes to "SET CENTER [SET]."
- 3) Bring the steering wheel to the centering position manually.
- (4) Press the TEST button. The Volume value obtained at this time is stored as the steering wheel's centering value, and "SET CENTER [LOCK]" is displayed. If the value does not fall within 80+/5H at this time, perform volume adjustment by referring to 10-2.

Bring the arrow to EXIT and press the TEST button to return to the MENU screen.



#### G. BOOKKEEPING

Selecting the BOOKKEEPING displays the data of operating status in 2 pages. Press the TEST button to proceed to the next screen. When the TEST button is pressed in the 2/2 PAGE, the screen returns to the MENU mode.



PAGE 1/2 displays the data of operating status.

- NUMBER OF GAMES : Total number of plays.
- NUMBER OF CONTINUE :
- Total number of continue.
- AVERAGE PLAY TIME

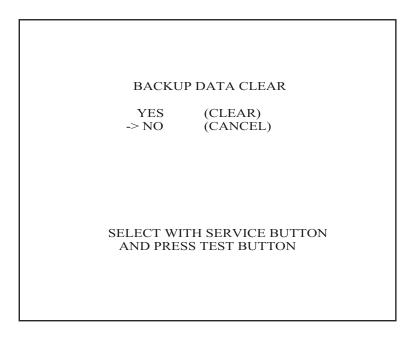
| BOOKKEEPING 2/2         TIME HISTOGRAM         00M00S - 00M29S 0         00M30S - 00M59S 0         01M00S - 01M29S 0         01M30S - 01M59S 0         02M00S - 02M29S 0         02M30S - 02M59S 0         03M00S - 03M29S 0         03M30S - 03M59S 0         03M30S - 03M59S 0         04M00S - 04M29S 0         05M00S - 05M29S 0         05M30S - 05M59S 0         05M30S - 06M29S 0         06M30S - 06M59S 0         0CVER       07M00S 0   |                           |
|---|---------------------------|
| 00M00S - 00M29S       0         00M30S - 00M59S       0         01M00S - 01M29S       0         01M30S - 01M59S       0         02M00S - 02M29S       0         02M30S - 02M59S       0         03M00S - 03M29S       0         03M30S - 03M59S       0         03M30S - 03M59S       0         04M00S - 04M29S       0         05M00S - 05M29S       0         05M30S - 05M59S       0         06M00S - 06M29S       0         06M30S - 06M59S       0         0KH 00S - 06M59S       0  | BOOKKEEPING 2/2           |
| 00M30S - 00M59S       0         01M00S - 01M29S       0         01M30S - 01M59S       0         02M00S - 02M29S       0         02M30S - 02M59S       0         03M00S - 03M29S       0         03M30S - 03M59S       0         04M00S - 04M29S       0         05M00S - 05M29S       0         05M30S - 05M59S       0         05M30S - 05M59S       0         06M00S - 06M29S       0         06M30S - 06M59S       0         0K       0 | TIME HISTOGRAM            |
| 01M00S - 01M29S 0<br>01M30S - 01M59S 0<br>02M00S - 02M29S 0<br>02M30S - 02M59S 0<br>03M00S - 03M29S 0<br>03M30S - 03M59S 0<br>04M00S - 04M29S 0<br>04M30S - 04M59S 0<br>05M00S - 05M29S 0<br>05M30S - 05M59S 0<br>06M00S - 06M29S 0<br>06M30S - 06M59S 0  | 00M00S - 00M29S 0         |
| 01M30S - 01M59S 0<br>02M00S - 02M29S 0<br>02M30S - 02M59S 0<br>03M00S - 03M29S 0<br>03M30S - 03M59S 0<br>04M00S - 04M29S 0<br>04M30S - 04M59S 0<br>05M00S - 05M29S 0<br>05M30S - 05M59S 0<br>06M00S - 06M29S 0<br>06M30S - 06M59S 0<br>0VER 07M00S 0  | 00M30S - 00M59S 0         |
| 02M00S - 02M29S 0<br>02M30S - 02M59S 0<br>03M00S - 03M29S 0<br>03M30S - 03M59S 0<br>04M00S - 04M29S 0<br>04M30S - 04M59S 0<br>05M00S - 05M29S 0<br>05M30S - 05M59S 0<br>06M00S - 06M29S 0<br>06M30S - 06M59S 0<br>0VER 07M00S 0   | 01M00S - 01M29S 0         |
| 02M30S - 02M59S 0<br>03M00S - 03M29S 0<br>03M30S - 03M59S 0<br>04M00S - 04M29S 0<br>04M30S - 04M59S 0<br>05M00S - 05M29S 0<br>05M30S - 05M59S 0<br>06M00S - 06M29S 0<br>06M30S - 06M59S 0<br>0VER 07M00S 0  | 01M30S - 01M59S 0         |
| 03M00S - 03M29S 0<br>03M30S - 03M59S 0<br>04M00S - 04M29S 0<br>04M30S - 04M59S 0<br>05M00S - 05M29S 0<br>05M30S - 05M59S 0<br>06M00S - 06M29S 0<br>06M30S - 06M59S 0<br>0VER 07M00S 0   | 02M00S - 02M29S 0         |
| 03M30S - 03M59S 0<br>04M00S - 04M29S 0<br>04M30S - 04M59S 0<br>05M00S - 05M29S 0<br>05M30S - 05M59S 0<br>06M00S - 06M29S 0<br>06M30S - 06M59S 0<br>0VER 07M00S 0  | 02M30S - 02M59S 0         |
| 04M00S - 04M29S 0<br>04M30S - 04M59S 0<br>05M00S - 05M29S 0<br>05M30S - 05M59S 0<br>06M00S - 06M29S 0<br>06M30S - 06M59S 0<br>OVER 07M00S 0   | 03M00S - 03M29S 0         |
| 04M30S - 04M59S 0<br>05M00S - 05M29S 0<br>05M30S - 05M59S 0<br>06M00S - 06M29S 0<br>06M30S - 06M59S 0<br>OVER 07M00S 0  | 03M30S - 03M59S 0         |
| 05M00S - 05M29S 0<br>05M30S - 05M59S 0<br>06M00S - 06M29S 0<br>06M30S - 06M59S 0<br>OVER 07M00S 0   | 04M00S - 04M29S 0         |
| 05M30S - 05M59S 0<br>06M00S - 06M29S 0<br>06M30S - 06M59S 0<br>OVER 07M00S 0  | 04M30S - 04M59S 0         |
| 06M00S - 06M29S 0<br>06M30S - 06M59S 0<br>OVER 07M00S 0   | 05M00S - 05M29S 0         |
| 06M30S - 06M59S 0<br>OVER 07M00S 0  | 05M30S - 05M59S 0         |
| OVER 07M00S 0   | 06M00S - 06M29S 0         |
|   | 06M30S - 06M59S 0         |
| DDESS TEST BUTTON TO EVIT   | OVER 07M00S 0             |
| DDESS TEST BUTTON TO EVIT   |                           |
|   | DECC TECT DUTTON TO EVET  |
| TRESS TEST BOTTON TO EXIT   | PRESS TEST BUTTON TO EXIT |

PAGE 2/2 displays Histogram of Number of Play as against Play Time.

#### H. BACKUP DATA CLEAR

Selecting the BACKUP DATA CLEAR displays the following screen on the monitor. The contents of BOOKKEEPING in the GAME TEST MODE and the ranking data can be cleared. Note that this operation does not affect the contents of GAME ASSIGNMENTS and the VOLUME SETTING.

The COIN/CREDIT related data can be cleared in the BACKUP DATA CLEAR in the SYSTEM TEST MODE.



- When clearing, bring the arrow to "YES (CLEAR)" and press the TEST button. "YES (CLEAR) COMPLETED" is displayed, "COMPLETED" is flashing, and the data is cleared. When the data has been cleared, the display stops flashing. After the data has been cleared, bring the arrow to "NO (CANCEL)" and press the TEST button to return to the MENU screen.
- Bring the arrow to "NO (CANCEL)" and press the TEST button to return to the MENU screen without clearing the data.

# **10. CONTROL PANEL (HANDLE MECHA)**



- Before starting to work, ensure that the Power SW is OFF. Failure to observe this can cause electric shock or short circuit.
- Use care so as not to damage wirings. Damaged wiring can cause electric shock or short circuit.
- Do not touch undesignated places. Touching places not designated can cause electric shock or short circuit.
- This work should be performed by the Location's Maintenance Man or Serviceman. Performing work by non-technical personnel can cause electric shock hazard.
- Do not insert hand into the mechanism so as not to cause hand and fingers pinched in. Failure to observe this can cause a serious injury such as a fracture.
- When performing work such as parts replacement other than those specified in this manual, be sure to contact where you purchased the product from and confirm the work procedures and obtain precautions prior to performing work. Inappropriate parts replacement and/or installing with erroneous adjustment can cause an overload or the parts to come into contact, resulting in an electric shock, a short circuit, and a fire.
- Use care when removing the HANDLE MECHA so as not to hurt the back. Dropping the HANDLE MECHA on your foot can cause a fracture. Be very careful of this point.



When putting the HANDLE MECHA, do not make the gear or the sensor portion face down. Failure to observe this may damage the parts due to its own weight.



Be sure to perform Volume value setting in the Volume Setting in the Test Mode after replacing or adjusting the Volume.

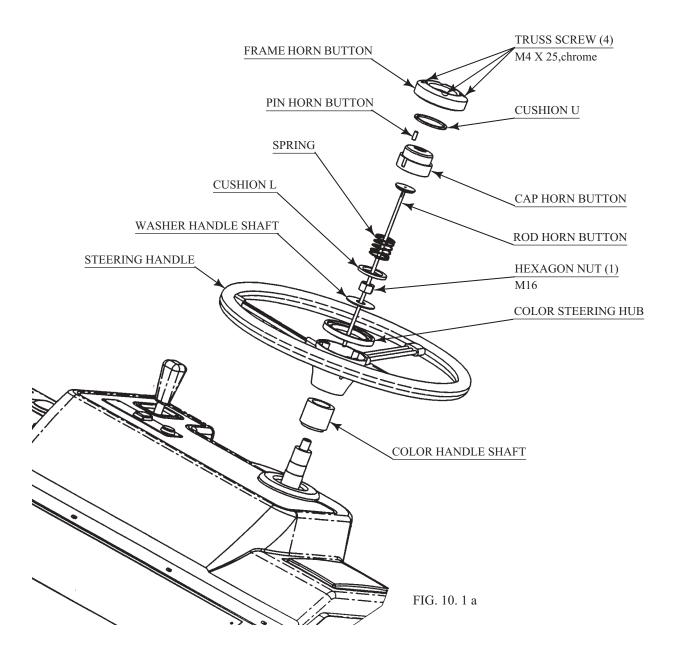
#### 10-1 REMOVING THE HANDLE MECHA

In cases the Steering operability is poor and the adjustment of VOLUME SETTING in the TEST mode is ineffective, the causes may be the Volume Gear's mesh failure and or Volume malfunctioning. By using the following procedure, adjust Volume gear mesh, or replace the Volume. In this product, when the Steering Wheel is moved fully left/right, if the Volume shaft is rotating within the movable range, the Volume is not feared to be damaged. Secure the Volume in the manner the Volume shaft is oriented as shown and the gears are appropriately engaged when the steering wheel is in the centering position allowing the car to go straight forward.

In order to perform V.R. adjustment or replacement, remove the HANDLE MECHA as per the following procedure.

(1)Turn power off.

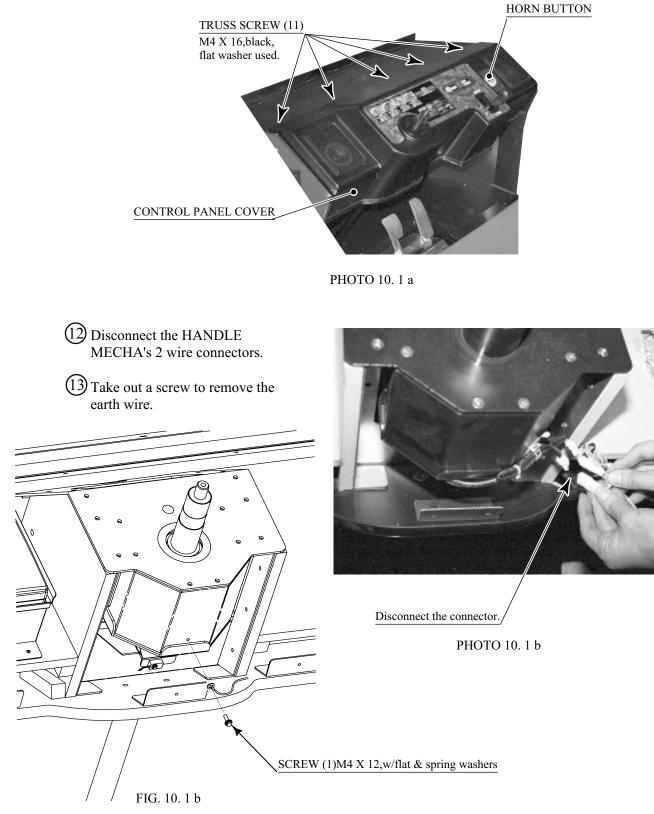
- Take out the 4 truss screws at the center of the steering wheel to remove the FRAME HORN BUTTON and the CAP HORN BUTTON. A small part (PIN HORN BUTTON) is attached to the CAP HORN BUTTON. Be sure to keep it.
- (3) Pull out the ROD HORN BUTTON.
- (4) Remove the SPRING and the CUSHION L.
- 5) Take out the hexagon nut.
- (6) Remove the WASHER HANDLE SHAFT.
- 7) Pull the STEERING HANDLE out of the HANDLE SHAFT. The HANDLE and the SHAFT are nesting of gear-shape splines hole and the shaft. Be sure to pull the STEERING HANDLE vertically so as not to damage the shaft.
- (8) Remove the COLOR HANDLE SHAFT.



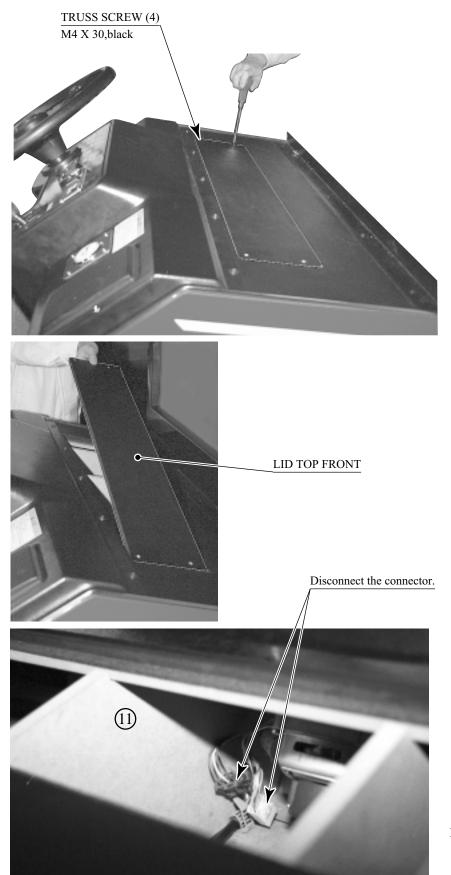
9 Take out the 4 screws, disconnect a connector, and remove the HORN BUTTON at the assistant driver's seat. (See sec. 15)

(10) Take out the 11 screws to remove the CONTROL PANEL COVER. Wiring connection is inside the CONTROL PANEL COVER. Use care so as not to damage wiring. The CONTROL PANEL COVER is made of plastic. Erroneous handling may damage the part.

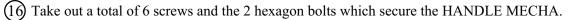
(11) Disconnect the 2 connectors inside the CONTROL PANEL COVER, and remove the CONTROL PANEL COVER.

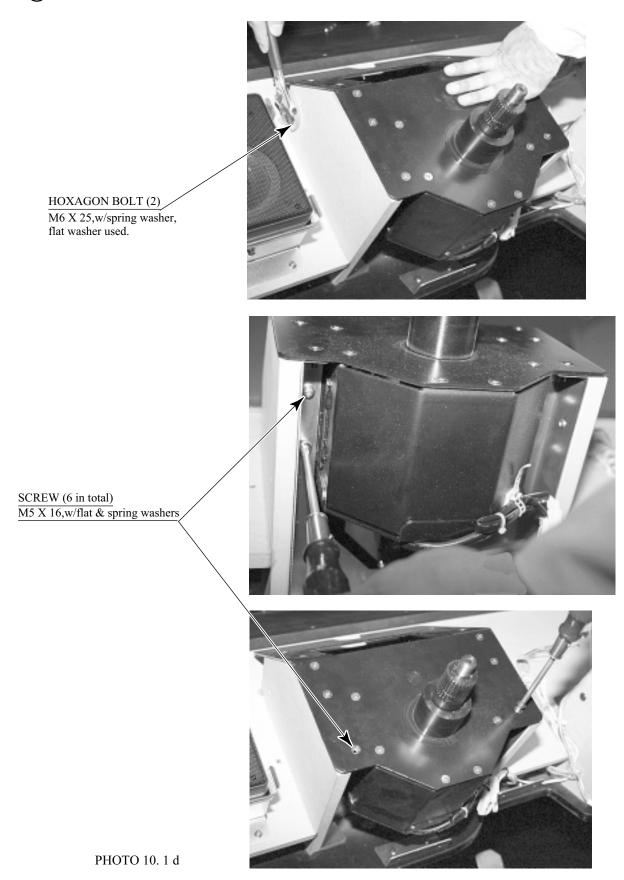


(15) Disconnect the 2 wire connectors of the motor inside the LID TOP FRONT.



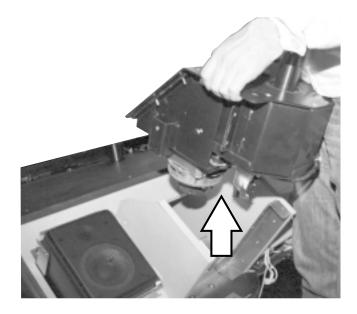
РНОТО 10. 1 с





53

(17) Remove the HANDLE MECHA. Use care when performing work.



РНОТО 10. 1 е

(18) When putting the HANDLE MECHA, be sure to have the gear and the sensor portions face upper. Failure to observe this may damage the parts due to its own weight.

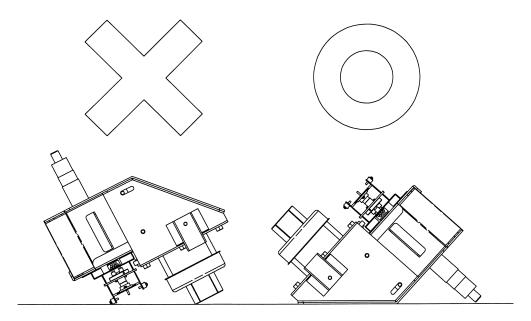


FIG. 10. 1 c

#### 10 - 2 VOLUME ADJUSTMENT/REPLACEMENT

Volume adjustment/replacement should be performed after the HANDLE MECHA has been removed as per 10-1.

#### ADJUSTMENT

- (1) In order to turn the HANDLE SHAFT, insert the STEERING HANDLE to the HANDLE SHAFT.
- (2) Secure the HANDLE at the centering position.
- (3) Loosen the 2 screws which secure the VOLUME BRACKET to push the gear out of mesh.
- (4) With the HANDLE SHAFT being at the centering position, bring the gear into mesh so that the status of the volume's shaft is as shown in the Fig.
- (5) Fasten the screws securing the VOLUME BRACKET.
- (6) After work is finished, perform volume setting in the Test mode.

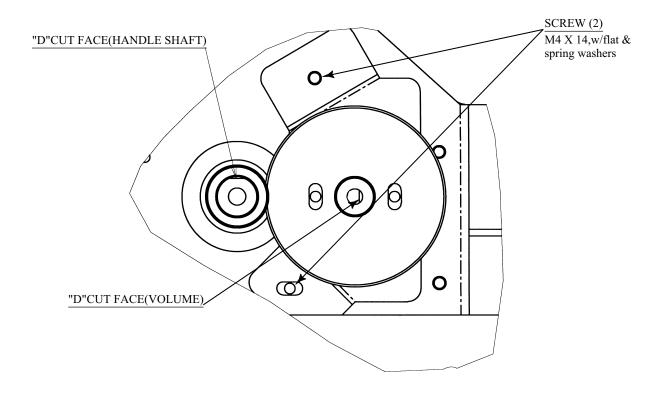
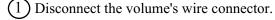


FIG. 10. 2 a

#### REPLACEMENT



- (2) Take out the 2 screws which secure the VOLUME BRACKET to remove the BRACKET together with the volume.
- (3) Take out the 2 screws, remove the VOLUME GEAR, and replace the VOLUME.
- (4) With the HANDLE SHAFT being at the centering position, bring the gear into mesh so that the status of the volume's shaft is as shown in the Fig.
- (5) Fasten the screws securing the VOLUME BRACKET.
- (6) After work is finished, perform volume setting in the Test mode.

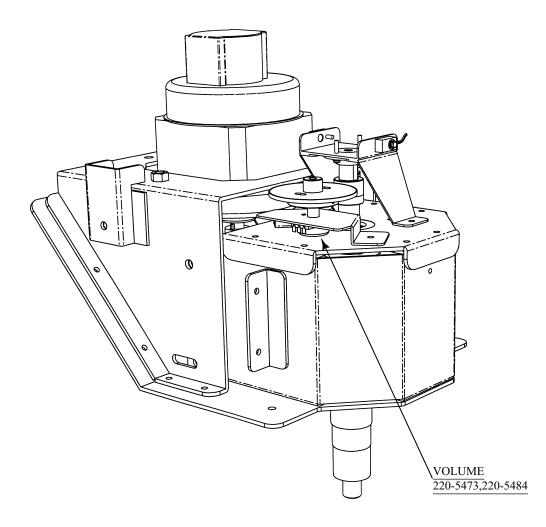


FIG. 10. 2 b

# **11. SHIFT LEVER**



- Before starting to work, ensure that the Power SW is OFF. Failure to observe this can cause electric shock or short circuit.
- Use care so as not to damage wirings. Damaged wiring can cause electric shock or short circuit.

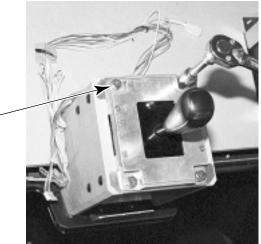
If the Shift Lever operation is not satisfactory, remove the Shift Lever in the following procedure and replace the microswitch.

11 - 1 REMOVING THE SHIFT LEVER

1 By following "10-1 REMOVING THE HANDLE MECHA", turn power off, remove the STEERING HANDLE, and remove the CONTROL PANEL COVER.

(2) Take out the 4 Hexagon Bolts.

HEXAGON BOLT (4) M8 X 20,w/spring washer



(3) Remove the SHIFT LEVER. The SHIFT LEVER has wiring connector. Pull up the SHIFT LEVER slowly until the 2 connectors can be seen.

РНОТО 11.1 а

(4) Disconnect the 2 connectors.

Disconnect the connector.

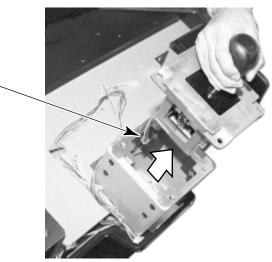
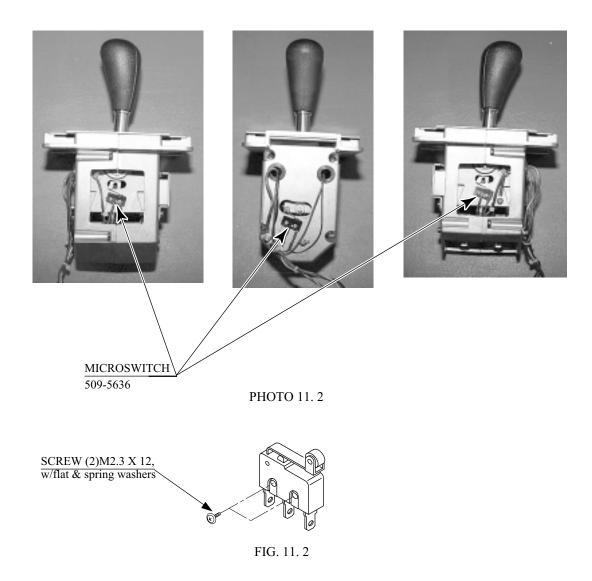


PHOTO 11. 1 b

#### 11 - 2 SWITCH REPLACEMENT

Each Microswitch is secured with 2 screws. Remove the 2 screws and replace the Microswitch.



After replacing the Switch, check to see if the switch is inputted as per Shift Lever operation in the Test Mode.

# **12. ACCELERATOR & BRAKE**



- Before starting to work, ensure that the Power SW is OFF. Failure to observe this can cause electric shock or short circuit.
- Use care so as not to damage wirings. Damaged wiring can cause electric shock or short circuit.
- Do not touch undesignated places. Touching places not designated can cause electric shock or short circuit.
- This work should be performed by the Location's Maintenance Man or Serviceman. Performing work by non-technical personnel can cause electric shock hazard.
- When performing work such as parts replacement other than those specified in this manual, be sure to contact where you purchased the product from. Confirm the work procedures and obtain precautions from where you purchased the product prior to performing work. Inappropriate parts replacement and/or installation with erroneous adjustment can cause an overload or the parts to come into contact, resulting in an electric shock, a short circuit, and a fire.



After having performed adjustment or replacement of the volume, be sure to check the variation of the volume value in the INPUT TEST in the test mode.

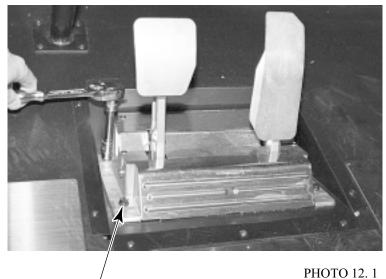
If Accel. and Brake operation is not satisfactory, adjustment of volume installation position or volume replacement is needed. Also, be sure to apply greasing to the gear mesh portion once every 3 months.

## 12 - 1 REMOVING THE ACCELERATOR AND THE BRAKE

Remove the accelerator and the brake to perform maintenance. To remove the accelerator and the brake, a socket wrench for M6 Hexagon bolts and an extension tool are necessary. The wiring connector is inside the accelerator and the brake. When removing, use care so as not to damage wiring.

## 1 Turn power off.

- 2 Apply the extension tool to the socket wrench. Remove the 4 Hexagon bolts which secure the accelerator and the brake.
- 3 The 2 wire connectors are connected to the accelerator and the brake. Disconnect the connectors, and the accelerator and the brake can be removed. Since work is performed inside the energized cabinet, be very careful so as not to touch undesignated portions.

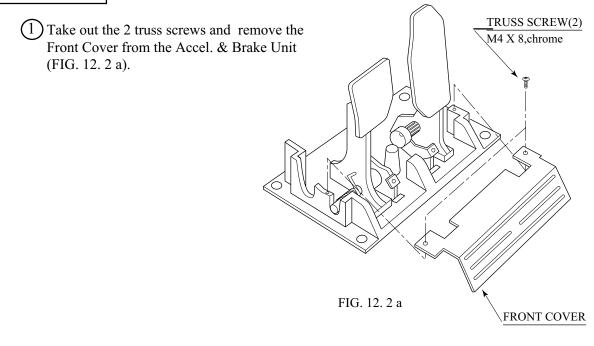


HEXAGON BOLT (4) M6 X 25,black,w/spring washer

#### 12 - 2 ADJUSTING OR REPLACING THE VOLUME

The appropriate value for both ACCEL. Volume and Brake Volume is under 30H when released and over C0H when stepped on. Check Volume values in the TEST mode. Since work is performed inside the energized cabinet, be very careful so as not to touch undesignated places. Touching places not specified can cause electric shock or short circuit.

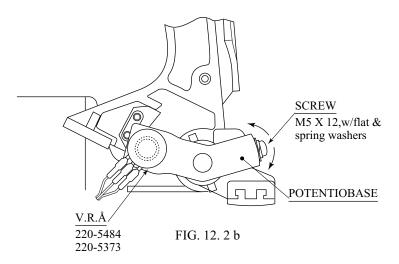
#### ADJUSTMENT



(2) Loosen the screw which secure the Potentiobase, and adjust the Volume value by moving the Base. (FIG. 12. 2 b)

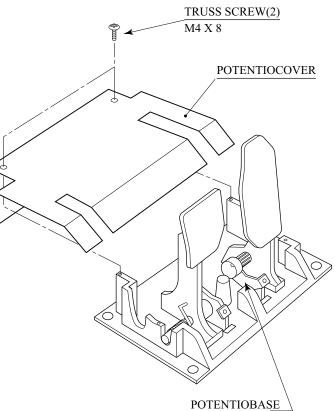
(3) Secure the Potentiobase.

(4) In the INPUT TEST screen, check to see if the volume value varies in accordance with operation of the pedal.



#### REPLACEMENT

(1) Turn the power off. (2) Take out the 2 screws and remove the Potentiocover (FIG. 12. 2 c). (3) Disconnect the connector of the volume to be replaced. (4) Remove the screw which secures the Potentiobase (FIG. 12. 2 b). (5) Remove the Potentiobase together with the volume as is attached. (FIG. 12. 2 c) (6) Remove the base and the gear to replace the volume. (7) After replacing, check to see if the volume values varies in accordance with operation of the pedal.





#### 12 - 3 GREASING



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

Once every 3 months, apply greasing to the Spring and gear mesh portion. For spray greasing, use GREASE MATE (PART No. 090-0066).

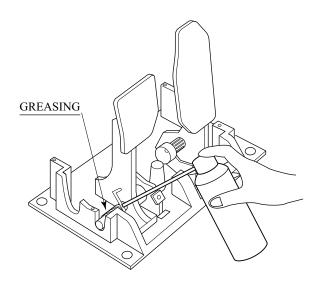


FIG. 12. 3

# **13. 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



- Remove and clean smears by using a soft cloth dipped in water or diluted chemical detergent and then squeezed dry.
- 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.

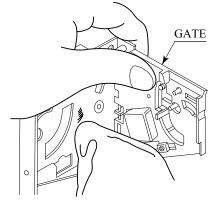


FIG. 13 a

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 rotary shaft.

Remove stain from the rotary shaft and shaft receiving portions by wiping off with a soft cloth, etc.

(6) After wiping off as per áD above, further apply a dry cloth, etc. to cause the coin selector to dry completely.

## COIN INSERTION TEST

Once every month, when performing 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?

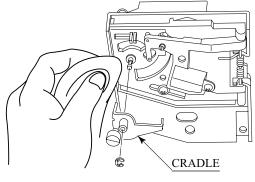
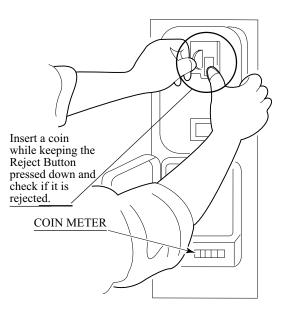


FIG. 13 b



# OPTIONAL DOLLAR BILL ACCEPTOR

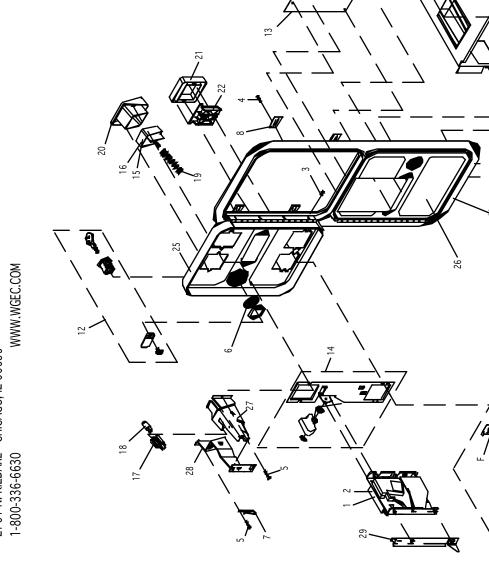
| EQUIPPED TO ACC  | ASSEMBLY USED ON <b>18 Wheeler Deluxe</b> COMES<br>CEPT A DOLLAR BILL ACCEPTOR. ALL NEEDED<br>FIONS ARE CONVIENENTLY LOCATED INSIDE THE<br>PPLICATION.  |
|--|---|
| • THE COIN DOOR C<br>VALIDATOR(S):   | CAN ACCCOMMODATE THE FOLLOWING  |
| FORWARD-MOST<br>HOLE POSITION  | Mars 2000 series  |
| **42-1155-00   | MARS VALIDATOR \$1, 2, 5 300 CAP  |
| a Mars 2000 series up<br>ing the cut-out plate. To<br>one of Happ Controls | bx enclosure on this coindoor has been modified to accomodate<br>stacker. A 2000 series stacker can be added by simply remov-<br>This one entry door can be ordered through Happ Controls or<br>authorized distributors. The part number is 40-6000-10EX.<br>be obtained through an autherized Mars distibutor. |
| Note: Your game may<br>Gardner Coin Door As                                | have either Happ Controls Coin Door Assembly or the Wells ssembly (not shown).  |
| **Happ part number   |   |

Security Locking Bar/Bracket Set Part No.# 999-0966

Modified Cash Box (For use when DBA installed) Part No. # 999-1106

Plastic Cash Box - Full Size Part No. # 999-1177

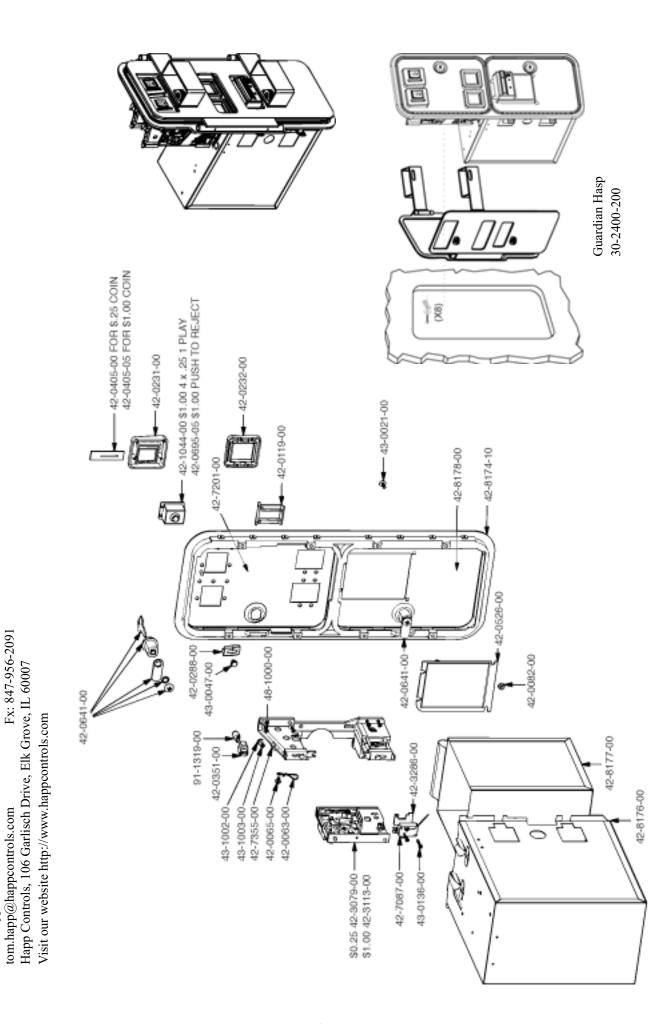
WELLS-GARDNER ELECTRONICS CORPORATION 2701 N. KILDARE CHICAGO, IL 60639 1-800-336-6630 WWW.WGEC.C



23

# WGD15-2110-01 OVER/UNDER MINI DOOR 2 ENTRIES WITH BILL VALIDATOR BOTTOM DOOR & SPECIAL ENCLOSURE

| 1         812-4150-011         57 US 25CON MECH LEFT           2         812-4050-011         5-10 US \$1 CONMECH RIGHT           3         890-1002-00         HINCE SCREW           5         890-1017-00         SCREW TRLOBULAR           6         890-1017-00         SCREW TRLOBULAR           7         890-1300-00         WASHER INTERNAL TOOTH 3/4"           8         891-0514-00         CLAMP SCREW           10         0.25X3712-001         WASHER INTERNAL TOOTH 3/4"           11         891-0509-162         DUBLE FRAME           10         0.25X3712-001         KETHOOK           11         891-0509-162         DUBLE FRAME           11         891-0100-4016         CLAMP VK.5/8" CABINET           12         891-1113-01         ER BUTTON US \$1CON RIGHT           13         891-1113-01         ER BUTTON US \$1 LEFT           14         891-1113-01         ER BUTTON US \$1 CON RIGHT           17         891-1113-01         ER BUTTON US \$1 CON RIGHT           16         891-1113-01         ER BUTTON US \$1 CON RIGHT           17         891-1113-01         ER BUTTON US \$1 CON RIGHT           18         891-1113-01         ER BUTTON US \$1 CON RIGHT           17 <t< th=""><th>#</th><th>W.G. PART #</th><th>DESCRIPTION</th></t<> | #   | W.G. PART #   | DESCRIPTION                  |
|---|-----|---------------|------------------------------|
| 812-4050-01         890-1002-00         890-1017-00         890-1017-00         891-10514-00         891-0514-00         891-0514-00         891-0514-00         891-0514-00         891-0509-162         891-0509-162         891-0514-00         891-0509-162         891-0509-162         891-0100-4016         891-1113-01         891-1113-01         891-1113-01         891-1113-01         891-1113-01         891-1113-01         891-1113-01         891-1113-01         891-1113-01         891-1113-01         891-1116-00         891-1116-00         891-1105-01         891-1105-01         891-1105-01         891-1105-01         891-1105-01         891-1105-01         891-1105-01         891-1105-01         891-1105-01         891-1105-01         891-1105-01         891-1105-01         891-1105-01         891-1105-01         891-1105-01         891-1105-01         891-1105-01  | -   | 812-4150-011  | S-7 US 25c COIN MECH LEFT    |
| 899-1002-00         899-1002-00           899-1017-00         899-1017-00           899-1017-00         899-1017-00           899-1017-00         891-0514-00           891-0514-00         891-0514-00           891-0514-00         891-0514-00           891-0514-00         891-0514-00           891-0514-00         891-0514-00           891-0514-00         891-0514-00           891-0504-104         891-1004-016           891-1010-4016         891-1113-01           891-1113-01         891-1113-01           891-1113-01         891-1113-01           891-1113-01         891-1116-00           891-1110-00         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-00           891-1105-01         891-1105-00           891-1105-01         891-1105-00           891-1105-01         891-1105-00           891-1105-01         891-1105-00           891-1105-01         891-1105-00           891-1105-01         891-1002-01           891-1002-01         891-1002-01           891-1002-01         891-1002-01           891-1002-01         891-1002-01           891-1002-01   | 2   | 812-4050-011  | S-10 US \$1 COINMECH RIGHT   |
| 899-1002-00         899-1017-00           899-1017-00         899-1017-00           899-1017-00         899-1300-00           891-0514-00         891-0514-00           891-0514-00         891-0509-162           891-0509-162         891-0509-162           891-0106-107         891-1010-4016           891-1008-107         891-1113-011           891-1113-011         891-1113-01           891-1113-011         891-1113-01           891-1113-01         891-1113-01           891-1113-01         891-1113-01           891-1113-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1002-01           891-1002-01         891-1002-01           891-1002-01         891-1002-01           891-1002-01   |     | 890-1002-00   | HINGE SCREW                  |
| 899-1017-00         899-1019-00           899-1300-00         899-1301-001           899-1372-001         891-0514-00           991-0509-162         891-0509-162           891-0106-016         891-0106-01           891-1006-107         891-1006-107           891-1113-011         891-1113-01           891-1113-011         891-1113-01           891-1113-011         891-1113-01           891-1113-011         891-1113-01           891-1113-011         891-1113-01           891-1113-010         891-1113-01           891-1113-010         891-1113-01           891-1110-00         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1002-01           891-1002-01         891-1002-01           891-1002-01         891-1002-01           891-1002-01         891-002-01           891-1002   | 4   | 890-1003-00   | CLAMP SCREW                  |
| 899-1019-00         899-1019-00           899-1300-00         891-0514-00           891-0514-00         991-0547-00           891-10547-00         891-10641-0           891-1064-106         891-1014-10           891-10154-107         891-1014-10           891-1113-011         891-1113-01           891-1113-011         891-1113-01           891-1113-011         891-1113-01           891-1113-011         891-1113-01           891-1113-010         891-1113-01           891-1113-010         891-1113-01           891-1113-010         891-1113-01           891-1110-00         891-110-00           891-1110-00         891-110-00           891-1110-00         891-110-00           891-110-00         891-110-00           891-110-00         891-110-00           891-110-00         891-110-00           891-110-00         891-110-00           891-110-00         891-110-00           891-110-00         891-110-00           891-1002-01         891-1002-01           891-1002-01         891-1002-01           891-1002-01         891-1002-01           891-1002-01         891-1002-01           891-1002-01   | 2   | 890-1017-00   | SCREW TRILOBULAR             |
| 890-1300-00         890-1300-00           891-0514-00         025X3712-001           991-0509-162         891-0509-162           891-0504-016         891-1006-4016           891-113-011         891-113-01           891-113-011         891-1113-01           891-1113-011         891-1113-01           891-1113-011         891-1113-01           891-1113-011         891-1113-01           891-1113-011         891-1113-01           891-1113-010         891-1113-01           891-1113-010         891-1113-01           891-1113-010         891-1116-00           891-1110-00         891-1110-00           891-1110-01         891-1116-01           891-1110-01         891-1116-01           891-1110-01         891-1116-01           891-1110-01         891-1116-01           891-1116-01         891-1116-01           891-1110-01         891-1116-01           891-1110-01         891-1116-01           891-1110-01         891-1116-01           891-1110-01         891-1100-01           891-110-02-01         891-1002-01           891-1002-01         891-1002-01           891-1002-01         891-002-01           891-1002   | 9   | 890-1019-00   | WASHER INTERNAL TOOTH 3/4"   |
| 891-0514-00           025X3711-001           025X3712-001           891-0509-162           891-0509-162           891-1006-107           891-1006-107           891-1113-03           891-1113-03           891-1113-01           891-1113-03           891-1113-03           891-1113-03           891-1113-04           891-1113-05           891-1113-05           891-1113-06           891-1113-00           891-1113-01           891-1113-00           891-1113-00           891-1113-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1110-00           891-1002-01           891-1002-01           8   | 7   | 890-1300-00   | КЕҮНООК                      |
| 025X3711-001           025X3712-001           891-0509-162           891-0509-162           891-0100-4016           891-11030           891-11030           891-1113-01           891-1113-03           891-1113-03           891-1113-03           891-1113-04           891-1113-05           891-1113-01           891-1113-03           891-1113-04           891-1113-05           891-1113-06           891-1112-00           891-1112-00           891-1110-16           891-1110-16           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-002-01           891-00   | 8   | 891-0514-00   | CLAMP UK 5/8" CABINET        |
| 025X3712-001           891-0509-162           891-0509-162           891-0100-4016           891-1113-03           891-1113-03           891-1113-03           891-1113-03           891-1113-03           891-1113-03           891-1113-03           891-1113-03           891-1113-03           891-1113-03           891-1113-03           891-1113-04           891-1113-05           891-1113-04           891-1115-00           891-1116-00           891-1116-00           891-1116-00           891-1116-00           891-1116-00           891-1116-00           891-1116-00           891-1002-01           891-1002-03           891-1002-04           891-1002-03           891-1002-04           891-1002-03           891-1002-04           891-1002-01           891-1002-03           891-1002-04           891-1002-04           891-1002-04           891-1002-04           891-1002-04           891-1002-04           891-002-01           891   | 6   | 025X3711-001  | ENCLOSURE W/CHUTE            |
| 891-0509-162           891-05347-00           891-0100-4016           891-1113-011           891-1113-011           891-1113-011           891-1113-01           891-1113-01           891-1113-01           891-1113-01           891-1113-01           891-1113-01           891-1113-01           891-1114-00           891-1115-00           891-1114-00           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-01           891-1116-16           891-1116-16           891-1116-11           891-1116-11           891-1116-11           891-1116-11           891-1116-11           891-1116-11           891-1116-11           891-1116-11           891-1116-11           891-1116-11           891-1116-11  | 10  | 025X3712-001  | METAL CASHBOX                |
| 891-0547-00           891-0100-4016           891-1113-01           891-1113-01           891-1113-01           891-1113-01           891-1113-01           891-1113-01           891-1113-01           891-1113-01           891-1113-01           891-1113-01           891-1113-01           891-1114-00           891-1115-00           891-1114-01           891-1114-01           891-1116-16           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1002-03           891-1002-03           891-1002-04           891-001-01           891-1002-01           891-1002-01           891-002-01           891-002-01           891-002-01           891-002-01           891-002-01           891-002-01           891-002-01 </td <td>11</td> <td>891-0509-162</td> <td>DOUBLE FRAME</td>  | 11  | 891-0509-162  | DOUBLE FRAME                 |
| 891-0100-4016           891-1113-01           891-1113-01           891-1113-01           891-1113-01           891-11116-00           891-1121-00           891-1121-00           891-1121-00           891-1121-00           891-1121-00           891-1121-00           891-1121-00           891-1121-00           891-1121-00           891-1121-00           891-1116-01           891-1109-16           891-1109-16           891-1100-00           891-1100-00           891-1100-00           891-1100-00           891-1100-00           891-1100-00           891-1100-00           891-1100-00           891-1100-00           891-1100-00           891-1002-01           891-1002-01           891-0002-01           891-0002-01           891-0002-01           891-0002-01           891-0002-01           891-0002-01           891-0002-01           891-0002-01           892-10002-01           892-10002-01           892-1002-01           89   | 12  | 891-0547-00   | LOCK SINGLE BIT              |
| 891-1006-107         891-1016-03           891-1113-01         891-1113-01           891-1113-01         891-1111-00           891-11116-00         891-1121-00           891-1121-00         891-1121-00           891-1121-00         891-1121-00           891-1121-00         891-1121-00           891-1121-00         891-1109-16           891-1105-01         891-1005-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1105-01           891-1105-01         891-1002-03           891-1002-03         891-1002-03           891-0012-0416         891-0012-01           891-0012-01         891-0012-01           891-0012-01         891-0012-01           891-0012-01         891-0012-01           891-0012-01         891-0012-01           891-0012-01         891-0012-01           891-0012-01         891-0012-01           891-0012-01         891-0012-01           891-0012-01   | 13  | 891-0100-4016 | COVER PLATE                  |
| 891-1113-03           891-1113-01           891-1113-01           891-1112-00           891-1121-00           891-1121-00           891-1121-00           891-1121-00           891-1121-00           891-1121-00           891-1121-00           891-1121-00           891-1121-00           891-1121-00           891-1109-16           891-1007-00           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1105-01           891-1002-01           891-1002-01           891-1002-01           891-1002-01           891-1002-01           891-0002-01           892-1002-01           892-1002-01           892-1002-01           892-1002-01           892-1002-01           892-1002-01           892-1002-01           892-1002-01           892-1002-01           892-1002-01           892-1002-01           892-100   | 14  | 891-1008-107  | BASE PLATE ASSEMBLY          |
| 891-1113-011         891-1113-01           891-1113-00         891-1111-00           891-1111-16         891-1311-16           891-1111-16         891-1311-16           891-1101-16         891-1311-16           891-1101-16         891-1311-16           891-1102-16         891-1311-16           891-1102-16         891-100-16           891-1105-01         891-1105-01           891-1105-01         891-1105-00           891-1116-10         891-11125-00           891-1112-00         891-1105-00           891-1112-00         891-1105-00           891-1112-00         891-1105-00           891-1112-00         891-1105-00           891-1112-00         891-1002-01           891-1002-01         891-1002-01           891-1002-01         891-1002-01           891-0002-01         892-1002-01           892-1002-01         892-1002-01           892-1002-01         892-1002-01           892-1002-01         892-1002-01           892-1002-01         892-1002-01           892-1002-01         892-1002-01           892-1002-01         892-1002-01           892-1002-01         892-1002-01           892-1002-01  | 15  | 891-1113-03   | E/R BUTTON US 4x25c/\$1 LEFT |
| 891-1117-00         LAMPHOLDER           891-1118-00         LAMP WEDGE BASE 6           891-1118-00         SPRING, E/R BUTTON           891-1116         BUTTON BEZEL, NVLO           891-1116         BUTTON BEZEL, NVLO           891-1109-16         RELECT FLAP           891-1109-16         RELECT FLAP           891-1105-01         SREW/ELAP           891-1105-01         RELECT CUP BASE PL           891-1105-00         SREW/ELAT HEAD M           891-1105-00         RELECT CUP BASE PL           891-1105-00         RELECT CUP BASE PL           891-1106-00         RELECT CUP BASE PL           891-1116-16         MICROSWITCH BAGK1           891-1116-16         MICROSWITCH BAGK           891-1116-16         MICROSWITCH BAGK           892-1002-03         SLEEVE, SNAP-ON           892-1002-03         SLEEVE, SNAP-ON           892-1002-01         SREM, PLASTIC <td>9</td> <td>891-1113-011</td> <td>E/R BUTTON US \$1 COIN RIGHT</td>                 | 9   | 891-1113-011  | E/R BUTTON US \$1 COIN RIGHT |
| 891-1118-00         LAMP WEDGE BASE 6           891-1121-00         SPRING, E/R BUTTON           891-1312-16         BUTTON BEZEL, NYLON           891-1109-16         RELECT FLAP           020X1877-005         NUT KPS #8.32 X/16H           891-1105-01         RELECT FLAP           020X1877-005         NUT KPS #8.32 X/16H           891-1105-01         RELECT CLP BASE PL           890-1007-00         SCREW,FLAT HEAD M           891-1105-01         RELECT CLP BASE PL           891-1105-00         RELECT CLP BASE PL           891-1106-00         REJECT CLP BASE PL           891-1016-00         REJECT CLP BASE PL           891-1016-00         REJECT CLP BASE PL           891-1016-00  | 17  | 891-1117-00   | LAMPHOLDER                   |
| 891-1121-00         SPRING, E/R BUTTON           891-1311-16         BUTTON BEZEL, NYLO           891-1312-16         BUTTON BEZEL, NYLO           891-1312-16         RELECT FLAP           020X1877-005         NUTKB7 & 82.X 5/161           891-1109-16         RELECT FLAP           891-216-16         MCROSWITCH ASSEM           891-1007-00         SCREW, FLAT HEAD.           891-1105-01         REP NUT           891-1106-00         BRACKET, MICROSWITCH ASSEM           891-1107-00         BRACKET, MICROSWITCH ASSEM           891-1106-00         REDECT CUP BASE PL           891-1106-00         BRACKET, MICROSWITCH ASSEM           891-1106-00         BRACKET, MICROSWITCH ASSEM           891-1106-00         COLER, PLAT HEAD.           891-1106-00         BRACKET, MICROSWITCH ASSEM           891-1110-00         CULP, SNAP-ON           892-1002-09         SLEEVE, SNAP-ON           892-1002-09         SLEEVE, SIAP-ON           892-1002-01         BRACKET, LANFSIGE           892-1002-03         SLEEVE, SNAP-ON           892-1002-09         SLEEVE, SNAP-ON           892-1002-01         BRACKET, LANFSIGE           892-1002-02         BRACKET, LANFSIGE           892-1002-03 <td></td> <td>891-1118-00</td> <td>9</td>                         |     | 891-1118-00   | 9                            |
| 891-1311-16         BUTTON BEZEL, NYL           891-1312-16         REJECT BEZEL, NYLO           891-1109-16         REJECT FLAP           891-1109-16         REJECT FLAP           891-1105-01         NUTKPS #9.32 X 5/161           891-1105-01         NUTKPS #9.22 X 5/161           891-1105-01         RELECT LUP SDE PL           891-1105-01         RELECT CLUP SDE PL           891-1105-01         RELECT CLUP SDE PL           891-1105-00         RELECT CLUP SDE PL           891-1105-01         RELECT CLUP SDE PL           891-1116-16         MCROSWITH, RLAC           891-1116-16         MCROSWITH </td <td>6</td> <td>891-1121-00</td> <td>SPRING, E/R BUTTON</td>         | 6   | 891-1121-00   | SPRING, E/R BUTTON           |
| 891-1312-16         REJECT BEZEL, NYLO           891-1109-16         REJECT FLAP           020X1877-005         NUTKEPS #9.2X 5/161           891-2216-16         MICROSWITCH ASSEN           890-1007-00         SCREW/LAT HEAD IN           891-1105-01         KEP NUT           891-1106-00         SCREW/LAT HEAD IN           891-1106-00         REJECT CUP BASE PL           891-1116-16         MICROSWITH, BLAC           891-1116-16         MICROSWITH, PAD           892-1002-01         BRACKET, LAWFSIDE           892-1002-01         BRACKET, COVERSID </td <td>20</td> <td>891-1311-16</td> <td>BUTTON BEZEL, NYLON</td>       | 20  | 891-1311-16   | BUTTON BEZEL, NYLON          |
| 891-1109-16         RELECT FLAP           020X1877-005         NUTKPS #8-32 X5/161           891-2216-16         MICROSWITCH ASSEN           890-1007-00         SCREW/LAT HEAD IN           890-1105-01         KEP NUT           891-1105-01         RELECT CUP BASE PL           891-1106-00         RELECT CUP BASE PL           891-1116-16         MICROSWITCH, BASC           891-1116-00         RELECT CUP BASE PL           891-1116-00         RACKET, MICROSWIT           891-1116-16         MICROSWITCH, BLAC           892-1002-07         SCREW, PAN HEAD           892-1002-01         BRACKT, LAWFSIDE           892-1002-01         BRACKT, COVERSI  | 21  | 891-1312-16   | REJECT BEZEL, NYLON          |
| 020X1877-005         NUTKPS #6.32 X5/161           891-2216-16         MICROSWITCH ASSEN           890-1007-00         SCREW/FLAT HEAD IN           890-1106-01         KEP NUT           891-1107-00         RACKET, MICROSWITCH ASSEN           891-1107-00         RADINSTEK, COIN           891-1107-00         BRACKET, MICROSWITCH BASE PL           891-1107-00         RELECT CUP BASE PL           891-1107-00         BRACKET, MICROSWITCH BASE PL           891-1107-00         RELECT CUP BASE PL           891-1107-00         RELECT CUP BASE PL           891-1107-00         BRACKET, MICROSWITCH BASE PL           891-1107-00         RELECT CUP BASE PL           891-1107-00         BRACKET, MICROSWITCH BACK           891-1107-00         BRACKET, COIN           891-11107-00         SCREW, PAN HEAD           892-1002-01         BRACKET, LAWFSIDE           892-1002-01         BRACKET, LAWFSIDE           892-1002-01         BRACKET, COVERSID           892-1002-01         BRACKET, LAWFSIDE           892-1002-01         BRACKET, COVERSID           892-1002-01         BRACKET, COVERSID           892-1002-01         BRACKET, COVERSID   | 22  | 891-1109-16   | REJECT FLAP                  |
| 891-2216-16         MICROSWITCH ASSEN           890-1007-00         SCREW,FLAT HEAD IA           890-1105-01         KEP NUT           891-1105-01         REJECT CUP SDE PL           891-1107-00         BRACKET, MICROSWIT           891-1101-00         BRACKET, MICROSWIT           891-1116-16         MICROSWITH, BLACK-           891-1116-16         MICROSWITH, BLACK-           891-1116-16         MICROSWITH, BLACK-           891-1115-00         ADUUSTER, COIN           891-1116-16         MICROSWITH, BLACK-           891-1115-10         CUCR, PLASTIC           891-1115-00         COVER, PLASTIC           892-1002-07         CLIP, SNAP-ON           892-1002-07         SLEEVE, SNAP NUT           892-1002-08         ELASTIC SNAP NUT           892-1002-09         SLEEVE, SNAP NUT           892-1002-01         BRACKT, LAWFSIDE           892-1002-01         BRACKT, LAWFSIDE           892-1002-01         BRACKT, COVERSID           892-1002-01         BRACKT, COVERSID           892-1002-01         BRACKT, COVERSID           892-1002-10         BRACKT, HOLD DOW   | 3   | 020X1877-005  | NUT KEPS #8-32 X 5/16 HEX    |
| 890-1007-00         SCREW,FLAT HEAD IA           890-1206-02         KEP NUT           891-1105-01         REJECT CUP SDE PL           891-1106-00         REJECT CUP BASE PL           891-1110-00         BRACKET, MICROSWI           891-1116-16         MICROSWITCH,BLACK-           892-1002-07         CURR,PLASTIC           892-1002-08         ELASTE SNAP NUT           892-1002-09         SCREW,PAN HEAD           892-1002-01         BRACKET,LAWFSIDE           892-1002-01         BRACKET,COVERSID           892-1002-01         BRACKET,COVERSID           892-1002-01         BRACKET,COVERSID           892-1002-01         BRACKET,COVERSID           892-1002-01         BRACKET,COVERS  | 24  | 891-2216-16   | MICROSWITCH ASSEMBLY         |
| 890-1206-02         KEP NUT           891-1105-01         REJECT CUP SDE PL           891-1105-00         RBACKET, MICROSWI           891-1116-16         MICROSWITCH, BLACK           891-1116-16         MICROSWITCH, BLACK           891-1116-16         MICROSWITCH, BLACK           891-1116-16         MICROSWITCH, BLACK           891-1115-00         ADJUSTER, COIN           891-1125-00         COVER, PLASTIC           892-1002-07         CLIP, SNAP ON           892-1002-07         CLIP, SNAP ON           892-1002-07         CLIP, SNAP ON           892-1002-07         SLEEVE, SIVAP-ON           892-1002-08         ELASTIC SNAP NUT           892-1002-09         SLEEVE, SIVAP-ON           892-1002-01         BRACKT, LAMPSIDE           892-1002-01         BRACKT, LAMPSIDE           892-1002-01         BRACKT, LAMPSIDE           892-1002-01         BRACKT, LAMPSIDE           892-1002-01         BRACKT, HOLD DOW           892-1002-10         BRACKT, HOLD DOW  | 24A | 890-1007-00   | SCREW, FLAT HEAD M/S         |
| 891-1105-01         REJECT CUP SDE PL           891-1106-00         REJECT CUP BASE PL           891-1106-00         BRACKET, MICROSWI           891-1116-16         MICROSWITCH, BLACK           891-102-07         CUPR, PLASTIC           892-1002-07         CUPR, PLASTIC           892-1002-08         ELASTIC SNAP NUT           892-1002-09         SLEEVE, SIVAP-ON           892-1002-01         SCREW, PAN HEAD           892-1002-01         SCREW, PAN HEAD           892-1002-01         BRACKT, LAWFSIDE           891-0614-16         MINI DOOR W/DBVC           891-0614-16         MINI DOOR W/DBVC           892-1002-01         BRACKT, LAWFSIDE           892-1002-01         BRACKT, COVERSIDI           892-1002-01         BRACKT, HOLD DOW  | 24B | 890-1206-02   | KEP NUT                      |
| 891-1106-00         REJECT CUP BASE PL           891-1107-00         BRACKET, MICROSWI           891-1116-16         ADJUSTER, COIN           891-1125-00         ADJUSTER, COIN           891-1125-00         CUFR, PLASTIC           891-1125-00         CUFR, PLASTIC           892-1002-07         CLIP, SNAP-ON           892-1002-08         ELASTC SNAP NUT           892-1002-09         SLEEVE, SIAP-ON           892-1002-01         SCREW, PAN HEAD           892-1002-01         SCREW, PAN HEAD           892-1002-01         SCREW, PAN HEAD           892-1002-01         SRACKT, LAWFSIDE           892-1002-01         BRACKET, LAWFSIDE           892-1002-01         BRACKET, COVERSID           892-1002-01         BRACKET, LAWFSIDE           892-1002-01         BRACKET, HOLD DOW   | 24C | 891-1105-01   | REJECT CUP SIDE PLATE        |
| 891-1107-00         BRACKET, MICROSWI           891-1110-00         ADUUSTER, COIN           891-1116-16         MICROSWITGH, BLACK           891-1115-00         ADUUSTER, COIN           891-1125-00         COVER, PLASTIC           892-1002-07         CLIP, SNAP-ON           892-1002-08         ELASTIC SNAP-ON           892-1002-09         SLEEVE, SIAAP-ON           892-1002-01         SCREW, PAN HEAD           892-1002-01         SCREW, PAN HEAD           892-1002-01         SCREW, PAN HEAD           892-1002-01         BRACKET, LAMPSIDE           891-0614-16         MINI DOOR W/DBVC           891-0614-16         MINI DOOR W/DBVC           891-0614-16         BRACKET, LAMPSIDE           892-1002-01         BRACKET, LAMPSIDE           892-1002-01         BRACKET, LAMPSIDE           892-1002-01         BRACKET, LAMPSIDE  | 24D | 891-1106-00   | REJECT CUP BASE PLATE        |
| 891-1110-00         ADUUSTER, COIN           891-1116-16         MICROSWITCH, BLACK -           891-1116-16         MICROSWITCH, BLACK -           891-1116-16         MICROSWITCH, BLACK -           892-1002-07         CUER, PLASTIC           892-1002-07         CLIP, SNAP-ON           892-1002-09         SLEEVE, SIMAP-ON           892-1002-09         SLEEVE, SIMAP-ON           892-1002-01         SCREW, PAN HEAD           891-0614-16         MINI DOOR W/DBV           891-0614-16         BRACKET, LAMPSIDE           891-0614-16         BRACKET, LAMPSIDE           891-0102-01         BRACKET, COVERSID           892-1002-01         BRACKET, HOLD DOW   | 24E | 891-1107-00   | BRACKET, MICROSWITCH         |
| 891-1116-16         MICROSWITCH, BLACK -           891-1125-00         COVER, PLASTIC           892-1002-07         CUP, SNAP-ON           892-1002-09         ELASTIC SNAP-ON           892-1002-09         SLEEVE, SNAP-ON           892-1002-09         SLEEVE, SNAP-ON           892-1002-09         SLEEVE, SNAP-ON           892-1002-01         SCREW, PAN HEAD           891-0614-16         MINI DOOR 2 ENTRIE           892-1002-01         BRACKET, LAMPSIDE           892-1002-10         BRACKET, HOLD DOW   | 24F | 891-1110-00   | ADJUSTER, COIN               |
| 891-1125-00         COVER, P           892-1002-07         CLIP, SN4           892-1002-09         ELASTC:           892-1002-01         SLEEVE, F           892-1002-11         SCREW, P           891-0604-16         MINI DOO           891-0614-16         MINI DOO           891-0612-11         SCREW, P           892-1002-01         BRACKET           892-1002-01         BRACKET           892-1002-021         BRACKET           892-1002-021         BRACKET  | 24G | 891-1116-16   |                              |
| 892-1002-07         CLIP, SIV           892-1002-03         ELASTIC:           892-1002-03         SLEEVE:           892-1002-11         SCREW, P           892-1002-11         SCREW, P           891-0614-16         MINI DOO           891-0614-16         MINI DOO           892-1002-01         BRACKET           892-1002-01         BRACKET           892-1002-01         BRACKET           892-1002-01         BRACKET  | 24H | 891-1125-00   | COVER, PLASTIC               |
| 892-1002-08         ELASTC:           892-1002-09         SLEEVE;           892-1002-01         SCREW, P           891-0604-16         MINI DOO           891-0614-16         MINI DOO           891-0614-16         MINI DOO           891-0610-11         SRACKET           892-1002-01         BRACKET           892-1002-01         BRACKET           892-1002-01         BRACKET   | 24J | 892-1002-07   | CLIP, SNAP-ON                |
| 892-1002-09         SLEEVE, i           892-1002-11         SCREW, P           891-0604-16         MINI DOO           891-0614-16         MINI DOO           891-0614-16         MINI DOO           892-1002-01         BRACKET           892-1002-021         BRACKET           892-1002-021         BRACKET   | 24K | 892-1002-08   | ELASTIC SNAP NUT             |
| 892-1002-11         SCREW, P           891-0604-16         MNI DOO           891-0614-16         MIN DOO           891-0614-16         MIN DOO           892-1002-01         BRACKET           892-1002-021         BRACKET           892-1002-021         BRACKET  | 24L | 892-1002-09   | SLEEVE, SNAP-ON              |
| 891-0604-16         MINI D00           891-0614-16         MINI D00           892-1002-01         BRACKET           892-1002-021         BRACKET           892-1002-021         BRACKET   | 24M | 892-1002-11   | SCREW, PAN HEAD              |
| 891-0614-16         MINI DOO           892-1002-01         BRACKET           892-1002-021         BRACKET           892-1002-10         BRACKET   | 25  | 891-0604-16   | Mini Door 2 Entries          |
| 892-1002-01 BRACKET<br>892-1002-021 BRACKET<br>892-1002-10 BRACKET  | 26  | 891-0614-16   | MINI DOOR W/DBV C/O          |
| 892-1002-021 BRACKET<br>892-1002-10 BRACKET   | 27  | 892-1002-01   | BRACKET, LAMPSIDE            |
| 892-1002-10 BRACKET   | 28  | 892-1002-021  | BRACKET, COVERSIDE           |
| -   | 29  | 892-1002-10   | BRACKET, HOLD DOWN           |



Ph: 847-593-6161 ext. 107

Tom Happ

# **14. PROJECTOR**



Since the Projector has been adjusted at the time of shipment, avoid making further adjustments without good reason.



The Projector is subject to color deviation due to Convergence deviation caused by the geomagnetism at the installation location and peripheral magnetic field. After the installation of machine, and before commencing operation, check for Convergence deviation and if deviated, make adjustments.

Projector adjustments are stored. Due to distortion or color deviation in the TEST mode, if an adjustment is necessary, use the Remote Control to make adjustments. There are two Projector Makers (Toshiba and Mitsubishi) and the adjustment method varies depending on the specific maker.

#### 14 - 1 CLEANING THE SCREEN



Since the Projector screen is susceptible to damage, pay careful attention to its handling. When cleaning, refrain from using water or volatile chemicals.

When the screen surface becomes dirty with dust, etc., clean it by using a soft cloth such as gauze. When water, and volatile chemicals such as benzine, thinner, etc., spill on the screen surface, it may be subject to damage, therefore, do not use them. Also, since the surfaces are susceptible to damage, refrain from rubbing them with a hard material or using a duster.

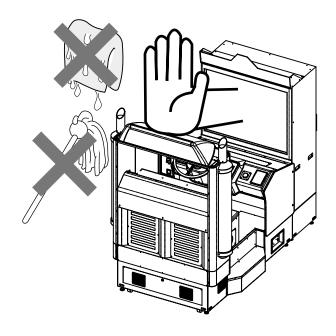


FIG. 14. 1

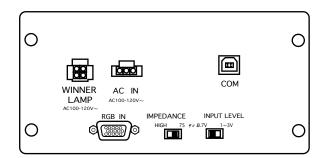
#### 14 - 2 ADJUSTMENT OF TOSHIBA PROJECTOR

#### SETTING THE INTERFACE



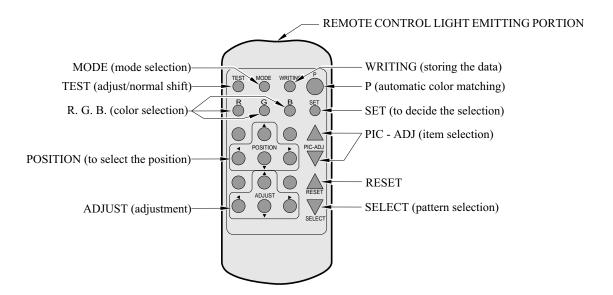
In this product, set to INPUT LEVEL: 0.7V and IMPEDANCE:  $75\acute{E}\partial$ . Failure to observe this can cause CRT membrane to burn or Shutdown device to function resulting in power off.

The Projector's Connector Panel contains the Interface setting SW.



## REMOTE CONTROL BUTTONS

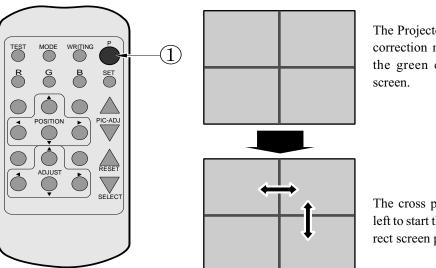
When adjusting the Projector, direct the Remote Control's light emitting portion towards the Projector Screen.



#### AUTOMATIC COLOR MATCHING

The Projector may be subject to color deviations affected by earth magnetism, the building steel frames, etc. When the Projector is initially installed or the Projector's installation position is changed, have the color matching performed automatically.

(1) Keep pressing the P button (red) for approximately 3 seconds to have the ensuing movements performed automatically.



The Projector will shift to the color deviation correction mode from the game mode, with the green cross pattern appearing on the screen.

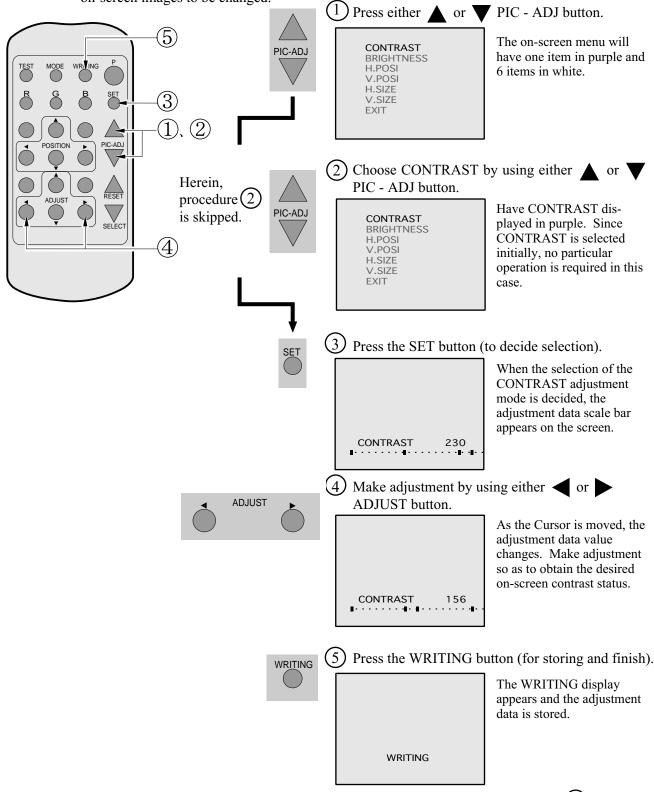
The cross pattern moves up/down and right/ left to start the movement of searching the correct screen position and inclination.

When the green cross pattern movements are finished, similar detection is performed sequentially in order of red and then blue cross movements. After detecting by green, red and blue cross movements, the game mode returns with the color deviation status being corrected.

- Although very rarely, the TRY AGAIN error display in red may appear. At this time, press the P button (red) for approximately 3 seconds. Even after the above operation is repeated, if the error condition still exists, then the display shifts to PLEASE ADJ. In this case, the auto color matching function can not be used. Contact the place of contact herein stated or where the product was purchased from.
- If the automatic color matching indicates an error, color matching can manually be performed. Refer to CONVERGENCE ADJUSTMENT (manual color matching).

#### ADJUSTING THE ON-SCREEN CONTRAST

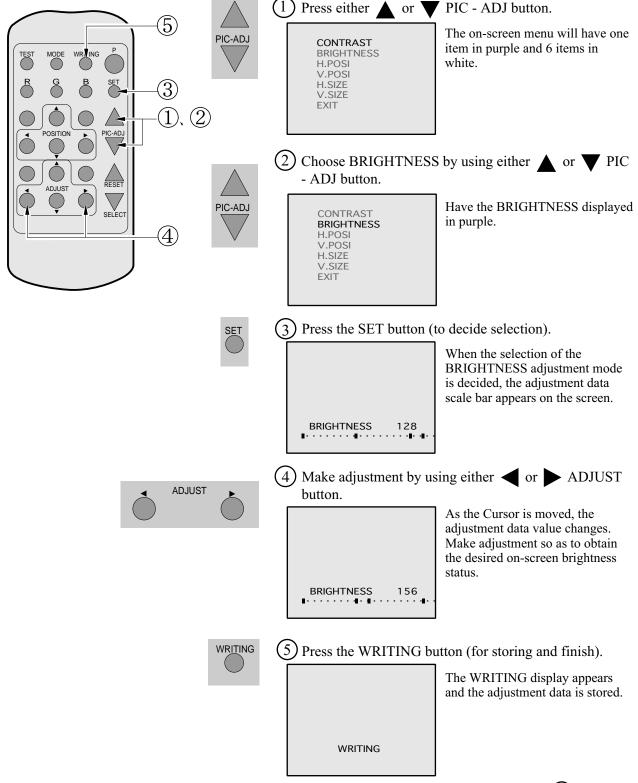
Although the on-screen picture quality has been adjusted at the time of shipment from the factory, the on-screen contrast can be readjusted if desired. When the Game Board is replaced, readjustment may be necessary. Changing the CONTRAST causes the light and shade of the on-screen images to be changed.



- When discontinuing the adjustment, choose EXIT from the menu at the stage of procedure (2) and press the SET button.
- To continue adjusting other menu items, repeat procedure  $(2) \sim (4)$ .
- Unless the adjustment data is stored, the data in the adjusted status will be erased at the time the power is turned off and the pre-adjustment status will remain when the power is turned on next time.

#### ADJUSTING THE SCREEN BRIGHTNESS

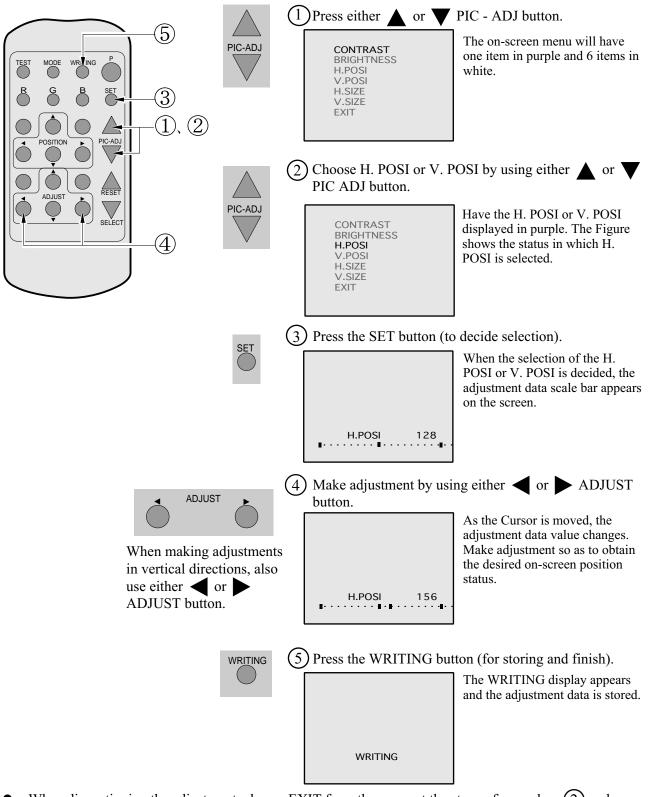
Although the on-screen picture quality has been adjusted at the time of shipment from the factory, readjustment can be made if desired. When the Game Board is replaced, readjustment may be necessary. Changing the BRIGHTNESS causes the brightness of the on-screen images of black portions to be changed.



- When discontinuing the adjustment, choose EXIT from the menu at the stage of procedure 2) and press the SET button.
- To continue adjusting other menu items, repeat procedure  $(2) \sim (4)$ .
- Unless the adjustment data is stored, the data in the adjusted status will be erased at the time the power is turned off and the pre-adjustment status will remain when the power is turned on next time.

#### ADJUSTING THE ON-SCREEN DISPLAY POSITION

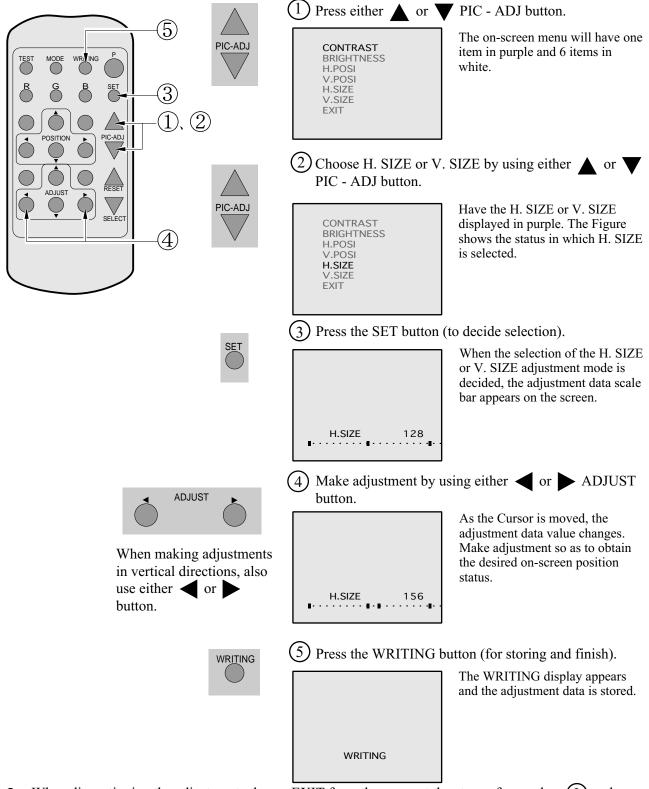
Although the on-screen display position (H. POSI, V. POSI) has been adjusted at the time of shipment from the factory, readjustment can be made if desired. When the Game Board is replaced, readjustments may be necessary.



- When discontinuing the adjustment, choose EXIT from the menu at the stage of procedure (2) and press the SET button.
- To continue adjusting other menu items, repeat procedure  $(2) \sim (4)$ .
- Unless the adjustment data is stored, the data in the adjusted status will be erased at the time the power is turned off and the pre-adjustment status will remain when the power is turned on next time.

#### ADJUSTING THE SCREEN SIZE

Although the on-screen size (H. SIZE, V. SIZE) has been adjusted at the time of shipment from the factory, readjustment can be made if desired. When the Game Board is replaced, readjustments may be necessary.



- When discontinuing the adjustment, choose EXIT from the menu at the stage of procedure (2) and press the SET button.
- To continue adjusting other menu items, repeat procedure  $(2) \sim (4)$ .
- Unless the adjustment data is stored, the data in the adjusted status will be erased at the time the power is turned off and the pre-adjustment status will remain when the power is turned on next time.



To avoid circuitry malfunctioning due to electrical load increase, never utilize CONVERGENCE ADJUSTMENT (Line Convergence Adjustment in particular) for adjusting screen size changes.

There is no means to restore the Convergence Adjustment data once stored, to its original state. To avoid changing the screen size by erroneously using convergence adjustment, do not perform the green Line Convergence Adjustment.

As such, be sure to perform the adjustment work from this page onward by the Technical staff and the location's Maintenance Personnel who are well versed in such adjustment work. In the Static Convergence Adjustments, if satisfactory adjustments can not be performed, do not make another convergence adjustments inadvertently. Contact the office herein stated or where the product was purchased from.



- To avoid making the adjustment work ineffective, do not press the RESET button during adjustment.
- To discontinue adjustment work, keep pressing the TEST button for approximately 3 seconds at the stage before storing the adjustment data by pressing the WRITING button.
- Should the screen be abnormally disturbed by noise due to static electricity, etc., turn the power off without storing the adjustment data.
- Pressing the ▲ or ▼ PIC ADJ button in the Convergence Adjustment mode status will display the Adjustment Menu shown right. Do not utilize this Adjustment Menu as this is the one applied at the factory.

Adjusting this menu causes the Customer's adjustment range to be deviated.

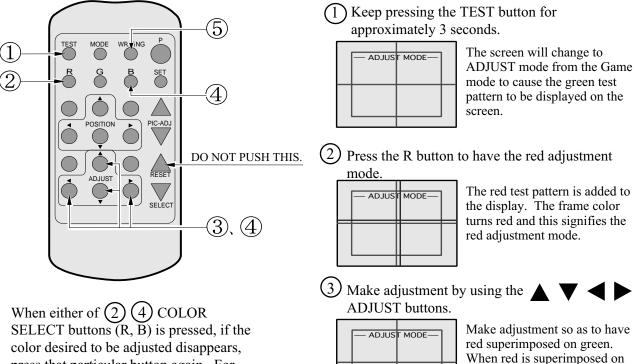
Should the menu shown right be displayed by mistake, first choose EXIT by using either  $\blacktriangle$  or  $\bigvee$  PIC - ADJ button and then press the SET button.

| ADJUST                             | MODE |  |
|------------------------------------|------|--|
| SUB VS<br>SUB HS<br>SUB BE<br>EXIT | SIZE |  |

Adjustment menu used in the factory.

#### STATIC CONVERGENCE ADJUSTMENT

In the static convergence adjustment, each of red and blue images is comprehensively moved to and superimposed on the green color. If automatic color matching function is not sufficiently satisfactory, perform this adjustment. Be sure to perform automatic color matching before starting the above adjustment.



color desired to be adjusted disappears, press that particular button again. For example, if the red color needs to be adjusted again at the stage of (4), the R button need to be pressed twice.

4 Press the B button to have the blue adjustment mode.

yellow.

| 1110 401 |         |         |  |  |  |  |
|----------|---------|---------|--|--|--|--|
|          | — ADJUS | Г MODE— |  |  |  |  |
|          |         |         |  |  |  |  |

Similarly as in the case of red, adjust the blue color. When green, red, and blue are superimposed, the color becomes white.

green, the color becomes

(5) Press the WRITING button (for storing and finish).



The WRITING display appears and the adjustment data is stored. After the data is stored, the Game mode returns.

#### POINT CONVERGENCE ADJUSTMENT

In the POINT CONVERGENCE adjustment, each of red, green and blue images is partially moved for color matching. The adjustment may be necessary when the Game Board is replaced or changed, or screen size is changed. Be sure to perform automatic color matching before starting the adjustment

the adjustment.

WRITING

PIC-AD.

SELECT

 $\overline{\mathbf{7}}$ 

DO NOT

PRESS.

(6)

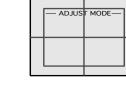
MARKER

1

4

(5)

(1) Keep pressing the TEST button for approximately 3 seconds.



ADJUST MODE

The screen changes to ADJUST mode from the Game mode and displays the green test pattern.

(2) Press the MODE button twice to have the POINT ADJUSTMENT mode. Note 1

> The crosshatch test pattern appears and the MARKER indicating the adjustment point is displayed.

3) Using either R or B button, select the desired color to be adjusted. Note 2 By using the G button, the green color can also be selected.

The selected color is displayed by superimposing on green. The MARKER will be in the color selected.

4 By using the ADJUST buttons, move the MARKER to the position to be adjusted.

| - |   | F         |   |   |   |   |   |    |   |    | F |   | F        | 1 |
|---|---|-----------|---|---|---|---|---|----|---|----|---|---|----------|---|
| _ |   |           | _ |   | - | - |   | -  | _ |    |   |   |          | 1 |
| - | 1 | =         | 1 | Р | ۳ | Р | H |    | 벋 | 5- |   | - | H        |   |
|   |   |           |   |   |   |   |   | He | Ⴒ |    |   |   |          | 1 |
|   |   |           |   |   |   |   |   |    | F |    | F |   | H        | Ł |
| - |   | Н         | - | - | - | - |   | -  |   |    | - | - | H        | 1 |
|   |   |           |   |   |   |   |   |    |   |    |   |   |          | 1 |
| _ |   | $\square$ | _ | - | - | - | - | -  | - |    | - | - | $\vdash$ | Ł |
| - |   | H         | - |   | - | - |   | -  |   |    |   |   | H        | 1 |
|   |   |           |   |   |   |   |   |    |   |    |   |   |          | 1 |
|   |   |           | - |   |   |   |   |    |   |    |   |   | H        |   |

The MARKER moves in the direction of the button's arrow. However, the movable point is predetermined.

(5) Make adjustment by using the ADJUST buttons.



Although the direct vicinity of the MARKER's center moves most conspicuously, make adjustment by paying attention to the periphery area also. Shown left is the magnified MARKER periphery.

(6) Press the SELECT button as necessary to superimpose Game Board images. Note 3

| 9<br>- Addust Moda |   |    | Ħ  |  | ) |
|--------------------|---|----|----|--|---|
|                    |   | us | 4P |  | E |
|                    |   |    | Ħ  |  | E |
|                    | Ħ |    | Ħ  |  | = |
|                    |   |    |    |  |   |
|                    |   |    |    |  |   |
|                    |   |    |    |  | Ē |

If the test pattern is not displayed in the periphery of the screen, adjustments can be made by pressing the SELECT button to superimpose the test pattern and the Game Board's CRT test screen.

(7) Press the WRITING button (for storing and finish).

| 11 | FF       | FF         | T                   | F        | H                          |                 | -               |
|----|----------|------------|---------------------|----------|----------------------------|-----------------|-----------------|
|    |          |            |                     |          | +                          |                 |                 |
| 17 | DIL      | ST         | MC                  | DE       |                            |                 |                 |
| ++ | -0-      | ⊢+         |                     | $\vdash$ | +-                         | -               | -               |
|    |          | +          |                     |          | +                          |                 |                 |
|    |          | Π          |                     |          |                            |                 |                 |
| ++ | $\vdash$ | ⊢+         | ++                  | $\vdash$ | +-                         | -               | -               |
|    |          | +          |                     |          |                            |                 |                 |
|    |          |            |                     |          |                            |                 |                 |
| ++ | Hw.      | <b>kit</b> | INC                 | $\vdash$ | +                          | -               | -               |
|    | <u> </u> | f i f      |                     |          |                            |                 |                 |
|    |          |            |                     |          |                            |                 |                 |
|    |          |            | ADJUSI<br>C<br>WRIT | WRITING  | ADJUS MODE<br>O<br>WRITING | ADJUS MODE<br>C | - ADULST MOLE - |

WRITING is displayed and the adjustment data is stored. After the data is stored, the Game Board screen returns.

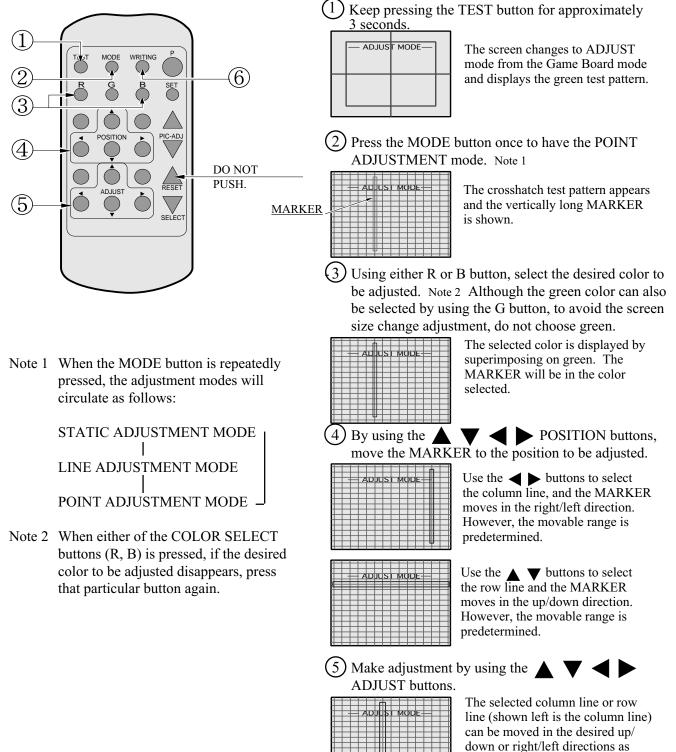
# Note 1 When the MODE button is repeatedly pressed, the adjustment modes will circulate as follows:

```
STATIC ADJUSTMENT MODE
```

- Note 2 When either of the COLOR SELECT buttons (R, B) is pressed, if the desired color to be adjusted disappears, press that particular button again.
- Note 3 By repeatedly pressing the SELECT button, only the Projector's TEST pattern screen and the screen superimposing the Game Board Test pattern can be alternately displayed.

#### LINE CONVERGENCE ADJUSTMENT

In the LINE CONVERGENCE ADJUSTMENT, the adjustment point of the column line (vertical) or row line (horizontal) is comprehensively moved for color matching. It is convenient to utilize this adjustment when the color of the column line or row line is uniformly deviated.



6) Press the WRITING button (for storing and finish).

applicable.



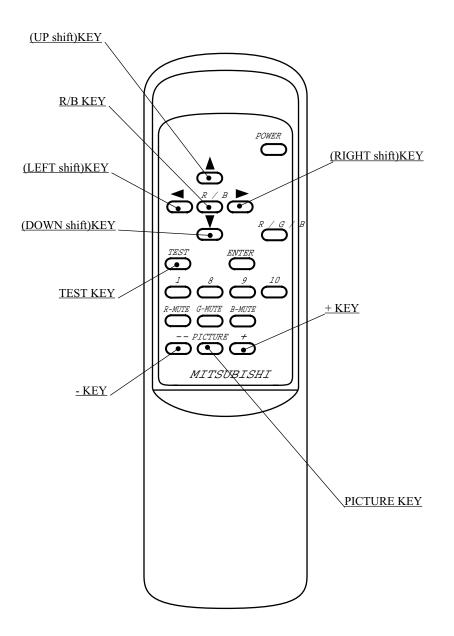
WRITING is displayed and the adjustment data is stored. After the data is stored, the Game Board screen returns.

#### 14 - 3 ADJUSTMENT OF MITSUBISHI PROJECTOR

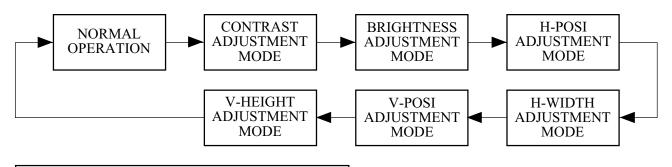


- For the operation of Remote Control, use only the Keys of R/B,
   ▲ (UP shift), <</li>
   (LEFT shift), ▼ (DOWN shift), 
   (RIGHT shift), TEST, -, +, and PICTURE. Do not press keys other than those explained in this manual.
- When operating the Remote Control, have it point the screen.

The Projector has DYNAMIC CONVERGENCE adjustment functions. This manual does not refer to the functions as the adjustment of DYNAMIC CONVERGENCE is very troublesome and in addition, visual effects are negligible.



| • POWER KEY            | . This does not have power ON/OFF function.<br>Does not function even if it is pressed.  |
|------------------------|--|
| • R/B KEY              | . Used to select "R" for red adjustment or "B" for blue adjustment in the STATIC CONVERGENCE ADJUSTMENT mode.  |
| •s(UP shift) KEY       | . Used to move the test cross upward in the STATIC CONVERGENCE ADJUSTMENT mode.  |
| • <\( (LEFT shift) KEY | . Used to move the test cross to the left in the STATIC CONVERGENCE ADJUSTMENT mode.   |
|                        | . Used to move the test cross downward in the STATIC CONVERGENCE ADJUSTMENT mode.  |
| • (RIGHT shift) KEY    | . Used to move the test cross to the right in the STATIC CONVERGENCE ADJUSTMENT mode.  |
| • TEST KEY             | . This is the ON/OFF key in the STATIC CONVERGENCE ADJUSTMENT mode. In the ON status of this key, the test cross pattern appears in the approximately on-screen center.    |
| • ENTER KEY            | . Used for DYNAMIC CONVERGENCE.  |
| • - KEY                | . Used to decrease the adjustment data in the adjustment mode of CON-<br>TRAST, BRIGHTNESS, HORIZONTAL/VERTICAL POSITIONS and<br>WIDTH.                                    |
| • + KEY                | . Used to increase the adjustment data in the adjustment mode of CON-<br>TRAST, BRIGHTNESS, HORIZONTAL/VERTICAL POSITIONS and<br>WIDTH.                                    |
| • PICTURE KEY          | . Used for the ADJUSTMENT mode of CONTRAST, BRIGHTNESS, HORI ZONTAL/VERTICAL POSITIONS and WIDTH. Every time this key is pressed, the ADJUSTMENT mode proceeds as follows: |

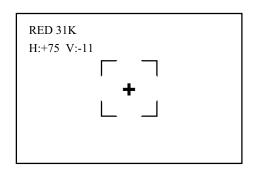


#### EXPLANATIONS OF ADJUSTMENT MODES

- CONTRAST ...... Used to vary image contrast. Use + and keys to adjust.
- BRIGHTNESS ...... Used to change image brightness. Use + and keys to adjust.
- H-POSI ...... Used to move the image position in the horizontal direction. Use + and keys to adjust.
- H-WIDTH ...... Used to change the horizontal width of image. Use + and keys to adjust.
- V-POSI ...... Used to move the image position in the vertical direction. Use + and keys to adjust.
- V-HEIGHT ..... Used to change the vertical width of image. Use + and keys to adjust.

#### STATIC CONVERGENCE ADJUSTMENT

Press the TEST KEY to change the screen to Red Line Adjustment mode.



Superimpose the red line on the green line. When the red line is superimposed on the green line, the green line turns to yellow or white.

To MOVE RED LINE:

Use  $\triangleleft$  key to move it left. Use  $\triangleright$  key to move it right.

Use s key to move it upward.

Use t key to move it downward.

Press the R/B KEY. Changes to the Blue Line Adjustment screen. Every time the key is pressed, "from red to blue" and "from blue to red" are alternated.

SUPERIMPOSING BLUE LINE ON GREEN LINE: Superimposing blue line on green line causes the green line to turn to white.

TO MOVE BLUE LINE: Use  $\triangleleft$  key to move it left. Use  $\triangleright$  key to move it right. Use s key to move it upward. Use t key to move it downward.

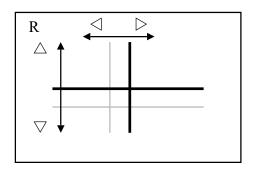
Press the TEST KEY. Adjustment is finished.

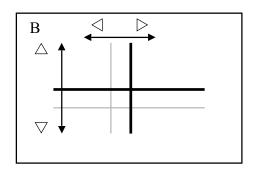
#### AUTOMATIC CANCELLATION OF ADJUSTMENT MODE

In each adjustment mode, only in the case where an effective key input (variation of values and images) is not performed within the time limit indicated below, the adjustment mode is automatically cancelled and finished, shifting to on-screen normal images.

| Approximately 6 seconds | CONTRAST           |
|-------------------------|--------------------|
|                         | BRIGHTNESS         |
|                         | H-POSI             |
|                         | H-WIDTH            |
|                         | V-POSI             |
|                         | V-HEIGHT           |
| Approximately 5 min.    | STATIC CONVERGENCE |

hb гy





### **15. REPLACING THE FLUORESCENT LAMP, AND LAMPS**



- When performing work, be sure to turn power off. Working with power on can cause electric shock and short circuit hazards.
- The Fluorescent Lamp, when it gets hot, can cause burn. Be very careful when replacing the Fluorescent Lamp.
- Be sure to use lamps of the designated rating. Using lamps of undesignated rating can cause a fire or malfunctioning.

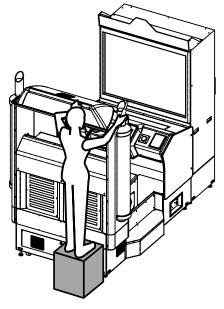


- To perform work safely and securely, be sure to prepare a step which is in a secure and stable condition. Performing work without using the step can cause violent falling down accidents.
- Be careful when handling the plastic made parts. Failure to observe this may cause injury due to damage or fragments resulting from damage.

THE FLUORESCENT LAMP INSIDE THE MAIN BILLBOARD

1 Turn off power.

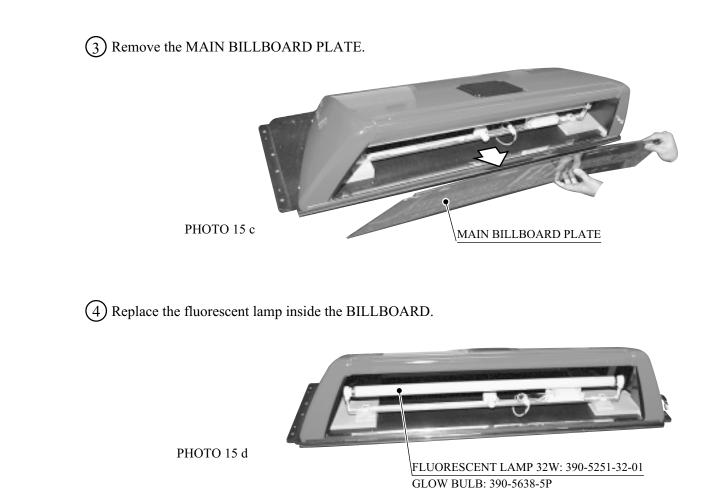
 $\bigcirc$  Take out the 3 screws to remove the SASH.



When performing work, be sure to use a step.

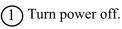
FIGURE OF A CONTRACT OF A CONT

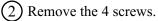
PHOTO 15 b



#### THE BUTTON FOR THE HORN IN THE ASSISTANT DRIVER'S SEAT

A wiring connection is inside the horn button. When removing, use care so as not to damage wiring.





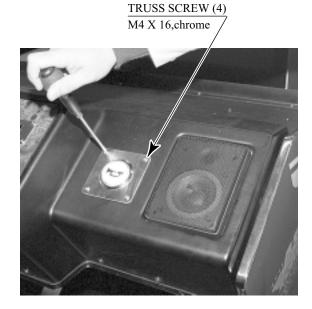
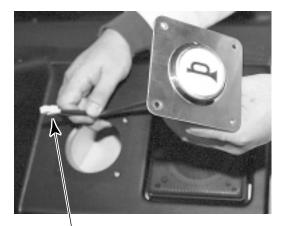


PHOTO 15 e

- (3) A wire connector is connected to the horn button. Disconnect the connector, and the horn button can be removed.
- (4) Firmly pinch the switch portion at the bottom of the button and pull it out of the button portion.
- (5) Pull out the lamp vertically and replace. Do not turn the lamp at this time.



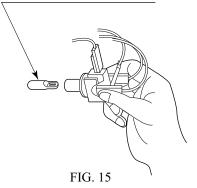
PHOTO 15 g



Disconnect the connector.

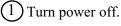
PHOTO 15 f

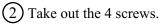
LAMP14V 3.8W 390-6677-038

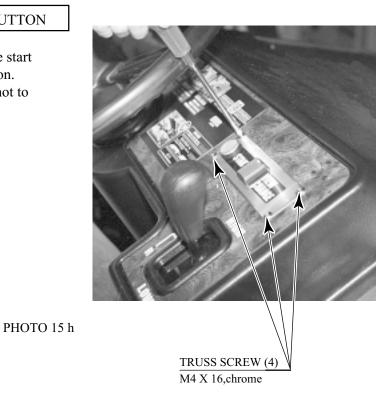


#### START BUTTON & VIEW CHANGE BUTTON

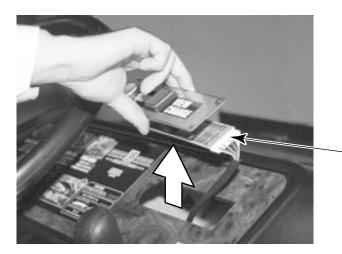
A wiring connection is inside the start button and the view change button. When removing, use care so as not to damage wiring.







www.seuservice.com

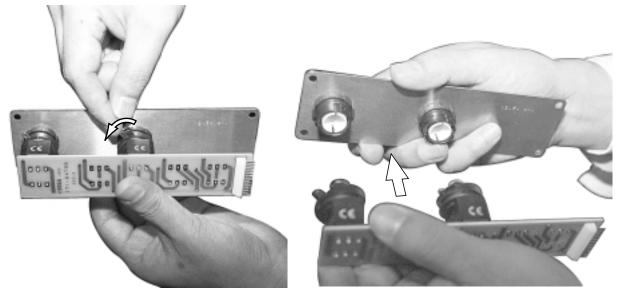


3 A connector is connected to the start button and the view change button. Disconnect the connector, and the ASSY VR BUTTON START & VIEW 1 can be removed.

Disconnect the connector.

РНОТО 15 і

(4) The lamp is on the PCB side. Turn the metallic parts of the 2 buttons, unlock and remove the PCB from the buttons.



РНОТО 15 ј

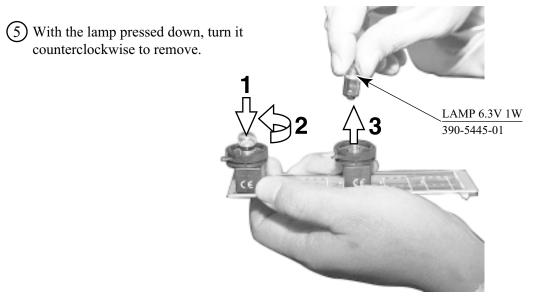


PHOTO 15 k

### **16. PERIODIC INSPECTION TABLE**

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



- Be sure to check once a year to see if Power Cords are damaged, the plug is securely inserted, dust is accumulated between the Socket Outlet and the Power Plug, etc. Using the product with dust as is accumulated can cause fire and electric shock hazards.
  - Periodically once a year, request the place of contact herein stated or the Distributor, etc. where the product was purchased from, as regards the internal cleaning. Using the product with dust as is accumulated in the interior without cleaning can cause a fire or accident. Note that cleaning the interior parts can be performed on a pay-basis.

#### TABLE 16

|   | Item                              | Interval      | Reference  |
|---|-----------------------------------|---------------|------------|
| CABINET Check Adjusters'contact with surface. |                                   | Daily         | 3          |
| HANDLE MECHA                                  | Check lamp.                       | Monthly       | 9          |
|   | Check VOLUME VALUE.               | Monthly       | 9          |
|   | Check ADJUST GEAR engagement.     | Trimonthly    | 10-2       |
| ACCEL. & BRAKE                                | Check VOLUME value.               | Monthly       | 6,9        |
|   | Check ADJUST GEAR engagement.     | Trimonthly    | 12-2       |
|   | Gear and Spring portion greasing. | Trimonthly    | 12-3       |
| SHIFT LEVER                                   | Check SW.                         | Monthly       | 6,9        |
| COIN CHUTE TOWER                              | Check COIN SW.                    | Monthly       | 9          |
|   | Coin insertion test.              | Monthly       | 13         |
|   | Cleaning of COIN SELECTOR.        | Trimonthly    | 13         |
| PROJECTOR                                     | SCREEN cleaning.                  | Weekly        | 14-1       |
|   | Check adjustments.                | Monthly       | 6,9,14     |
| GAME BD                                       | MEMORY TEST.                      | Monthly       | 9          |
|   | Check settings.                   | Monthly       | 9          |
| Cabinet surfaces                              | Cleaning                          | As necessary. | See below. |
| INTERIOR                                      | Cleaning                          | Annually      | See above. |
| POWER SUPPLY PLUC                             | Inspection and cleaning           |               |            |

#### CLEANING THE CABINET SURFACES

When the cabinet surfaces are badly soiled, remove stains with a soft cloth dipped in water or diluted (with water) chemical detergent and squeezed dry. To avoid damaging surface finish, do not use such solvents as thinner, benzine, etc. other than ethyl alcohol, or abrasives, bleaching agent and chemical dustcloth.

### **17. TROUBLESHOOTING**



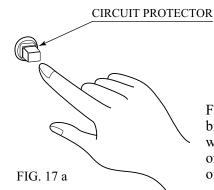
- In order to prevent electric shock and short circuit, be sure to turn power off before performing work.
- Be careful so as not to damage wirings. Damaged wiring can cause electric shock or short circuit.
- After removing the cause of the functioning of the Circuit Protector, reinstate the Circuit Protector. Depending on the cause of the functioning, using the Circuit Protector as is without removing the cause can cause generation of heat and fire hazard.

In case a problem occurs, first check wiring connector connections.

| PROBLEMS                                    | CAUSE   | COUNTERMEASURES  |
|---|---|--|
| With Main SW<br>ON, no activation.          | Power is not supplied.  | Securely insert the power plug into the plug socket.   |
|   | Power supply/voltage is not correct.                            | Make sure that power supply/voltage is correct.  |
|   | The Circuit Protector functioned due to the momentary overload. | After eliminating the cause of overload,<br>reinstate the AC Unit's Circuit Protector<br>(see 5, Section 6, Refer to the following). |
| The color on PTV<br>screen is<br>incorrect. | Image adjustment is inappropriate.                              | Adjust appropriately (see Sec.14).   |
| Color deviation<br>on PTV screen.           | Affected by peripheral machines or the building's steel frames. | Perform convergence adjustment (see Sec. 14).  |
|   |   | Change installation direction or position.   |
|   |   | Move the machine which causes the problem.   |

TABLE 17 a

#### CIRCUIT PROTECTOR



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

| TABLE | 17 b |
|-------|------|
|-------|------|

| PROBLEMS   | CAUSE                                    | COUNTERMEASURES   |
|--|--|---|
| No sound is emitted. Sound volume adjustment is not appropriate.         |  | Adjust sound volume (see Sec. 9).   |
|  | Board and Amplifier malfunctioning.      | Perform the sound test and confirm (see Sec. 9).                            |
| Operation of<br>Super Woofer and<br>Base Shaker are<br>not satisfactory. | The fuse on the AMP BASE is blown.       | Replace fuse. (see Fig.17b)   |
| Steering Wheel reaction strength is incorrect.                           | Power ON check not performed correctly.  | Turn off power and then turn it back on again. Complete the power on check. |
| Deviation of<br>Center.  | V.R. position deviated.                  | Adjust V. R. value in the test mode (see Sec. 9).                           |
|  | V.R. malfunctioning.                     | Replace V.R. (see Sec. 10).   |
| Steering Wheel<br>reaction strength<br>is insufficient.                  | Reaction Mecha's secular change.         | Change the setting in the Test Mode (see Sec. 9).                           |
| No Steering<br>Wheel Reaction.   | Connector Connection is incorrect.       | Check the connector's connection inside the LID TOP FRONT. (see 10-1)       |
| SHIFT LEVER<br>doesn't operate<br>satisfactorily.                        | Switch malfunctioning.                   | Replace the Switch (see Sec. 11).   |
| Operation of Accel. and Brake  | V.R. malfunctioning.                     | Replace the V.R. (see Sec. 12).   |
| Pedals are not satisfactory.   | ADJUST GEAR's engagement is not correct. | Adjust the engagement of ADJUST GEAR (see Sec. 12).                         |
| The Fluorescent lamp does not  | Connector connection fault.              | Check connector connection (see Sec 6).                                     |
| light up.  | The Fluorescent tube is burnt out.       | Replace the Fluorescent tube (see Sec. 15).                                 |

#### REPLACMENT OF FUSE

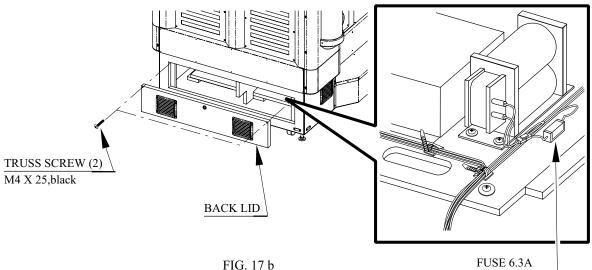


- Fuse replacements other than those specified can cause accidents and are strictly forbidden. In case fuse replacements other than those stated in this manual are necessary, contact where you purchased the product from for inquiries regarding this matter.
- In order to prevent an electric shock, be sure to turn power off and unplug from the socket outlet before performing work by touching the internal parts of the product.
- Be careful so as not to damage wirings. Damaged wiring can cause electric shock and short circuit accidents.
- Be sure to use fuses meeting specified rating. Using fuses exceeding the specified rating can cause fire and electric shock accidents.
- After eliminating the cause of the blowing of fuse, replace the fuse. Depending on the cause of fuse blowing, continued use with the fuse as is blown can cause generation of heat and fire hazard.

(1) Turn power off.

(2) Take out the 2 truss screws, unlock and remove the BACK LID from the main cabinet.

(3) The fuse is provided at the right-hand side of the BACK LID inside.



FUSE 6.3A 514-5086-6300

### **18. GAME BOARD**

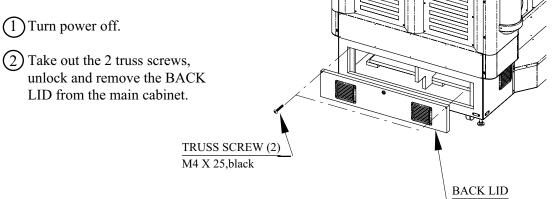


- In order to prevent electric shock and short circuit hazards, be sure to turn power off before performing work.
- Be careful so as not to damage wirings. Damaged wiring can cause fire, electric shock or short circuit.
- Do not expose the Game BD, etc. without a good reason. Failure to observe this can cause electric shock hazard or malfunctioning.



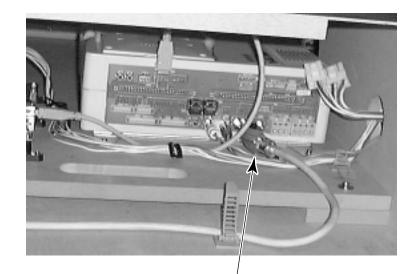
In this product, setting changes are made during the test mode. The Game BD need not be operated. Use the Game BD, etc. as is with the same setting made at the time of shipment so as not to cause electric shock and malfunctioning.

#### 18 - 1 REMOVING THE BOARD





3 Disconnect all connectors connected to the NAOMI GAME BOARD.



РНОТО 18.1 а

Disconnect the connector

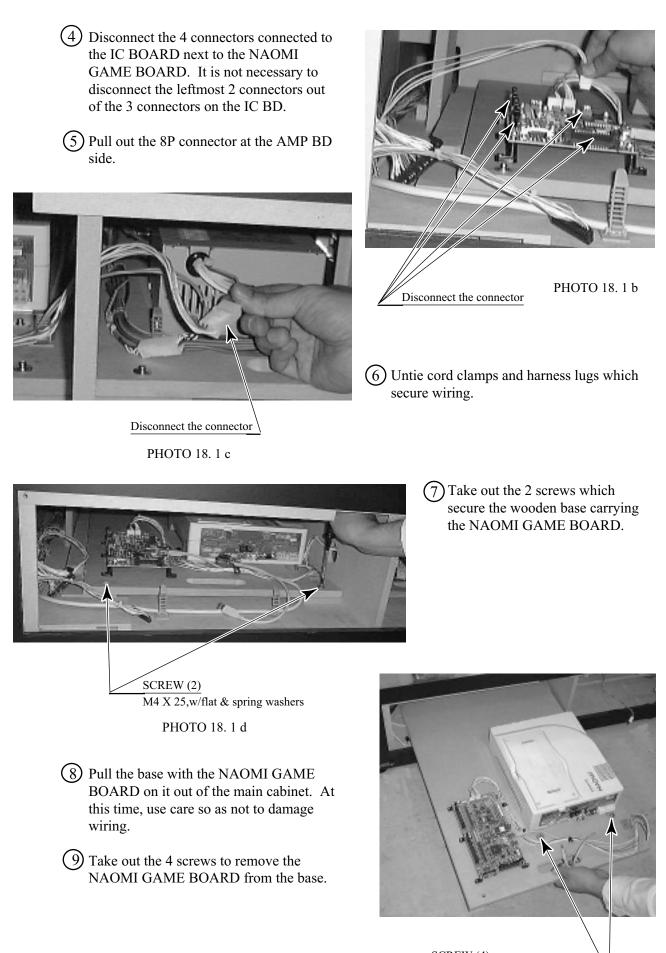


PHOTO 18.1 e

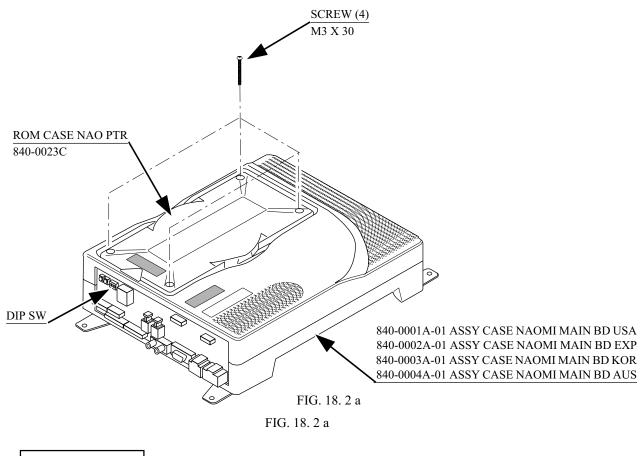
SCREW (4) M4 X 16,w/flat & spring washers

#### 18 - 2 COMPOSITION OF GAME BOARD



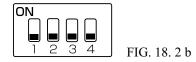
Ensure that the DIP SW setting is performed as designated. Failure to observe this may cause functioning not suitable for the actual operation, or malfunctioning.

ASSY CASE NAO PTR USA(840-0023D-01):USA ASSY CASE NAO PTR EXP(840-0023D-02):OTHERS ASSY CASE NAO PTR KOR(840-0023D-03):KOREA ASSY CASE NAO PTR AUS(840-0023D-04):AUSTRALIA



DIP SW

In this product, set the DIP SW to OFF. There is another DIP SW on the IC BOARD (other than NAOMI GAME BOARD). Set this DIP SW to OFF as well.





- Be careful so as not to damage wirings. Damaged wiring can cause electric shock and short circuit hazards.
- Do not touch undesignated places. Touching places not specified can cause electric shock and short circuit hazards.

Inside the LID TOP FRONT is the Drive Control Board. If an irregularity occurs in the Drive Control Board, the ERROR message is shown on the screen and the 7-SEG display on the Drive Control Board. Take countermeasures in the manner corresponding to the ERROR message. Note that even in the case an error occurs, game is playable.

Errors can be classified roughly into 2 types, such as communication related errors between Drive Control Board & Game Board and the others.

If an error relating to communication occurs, "MOTOR NETWORK ERROR IN: XX OUT: XX" is displayed on the monitor. "MOTOR TROUBLE CODE: XX" is displayed when an error relating to other than communication occurs.

For communication error display, the value outputted by NAOMI Board and the value corresponding to the NAOMI's value outputted by Drive Control Board are displayed. Under normal operation, these values are identical. However, if an irregularity occurs, the values are not identical and the results are displayed on the monitor.

If an irregularity relating to other than communication occurs, an error code is displayed. On-screen ERROR display differs from 7-SEG display on the Drive Control Board. For an error code and its countermeasures, refer to Table 18.3.

| On-screen<br>ERROR display | 7-SEG display on<br>Drive Control BD. | ERROR  | CAUSE/COUNTERMEASURES   |
|----------------------------|---------------------------------------|--|---|
| e7                         | ER 01                                 | ROM ERROR  | Malfunctioning of Drive Control Board.<br>Replace Drive Control Board.  |
| e6                         | E R 02                                | RAM ERROR  | Replace Drive Control Board.  |
| eO                         | ER 20                                 | Initialization<br>setting<br>irregularity of<br>motor    | Irregularity during initialization setting movement.<br>Finish initialization setting movement by turning<br>power off and then on. Note that when ERROR is<br>displayed,the malfunctioning relates to the Motor<br>System (Motor, Drive Control BD which controls the<br>Motor, Drive BD., wirings in between, etc.) |
| e9                         | ER 22                                 | Steering Wheel's centering error                         | Malfunctioning during initial setting movement.<br>Finish initialization setting movement by turning<br>power off and then on. Note that when ERROR is<br>displayed, the malfunctioning relates to the Steering<br>Wheel Volume system.   |
| e1                         | ER 23                                 | ERROR of the<br>Encoder<br>incorporated in<br>the motor. | Malfunctioning which occurs during operation.<br>First turn the power off and after 10 min., turn it back<br>on again. Note that when this Error is displayed, the<br>malfunctioning relates to the Motor System.   |
| e2                         | ER 24                                 | Overcurrent<br>ERROR                                     |   |
| e3                         | ER 25                                 | Overheat<br>Overload                                     |   |
| ea                         | ER 30                                 | VOLUME<br>ERROR  | Malfunctioning which occurs during operation.<br>Check the variation of the volume value in the test<br>mode.   |

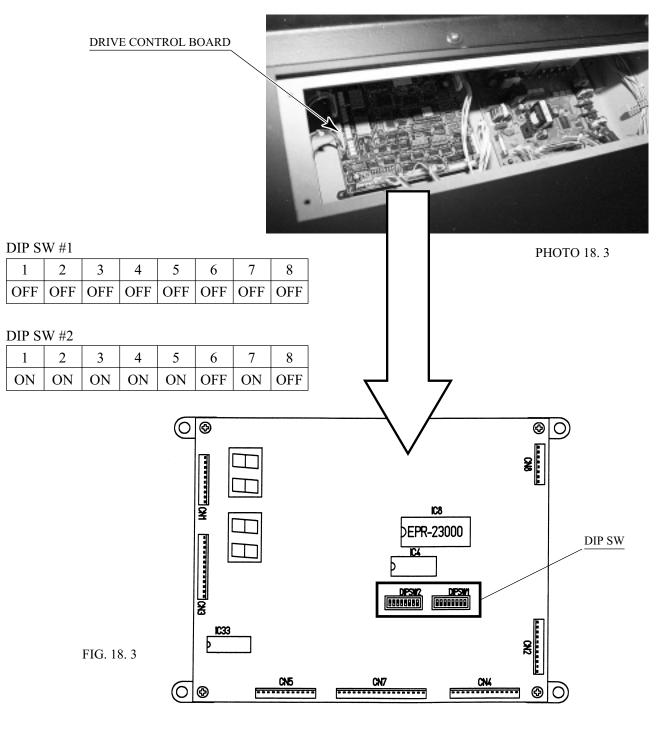
Table 18. 3 ERROR DISPLAY

Among the ERROR display as per Table 18.3, each of Er 01, 02, 20 and 22 (Error Code e7, 6, 0 and 9) is displayed before the Advertise mode is displayed if an irregularity is found during initialization setting movements when power is turned on.

From among error displays as per Table 18.3, Er 23, 24, 25, and 30 (Error Code e1, 2, 3 and a) indicate On-Board 7-SEG error display when an irregularity is found during game and ADVERTISE mode. If an irregularity is found during game, game play can be continued without Steering Wheel reaction.

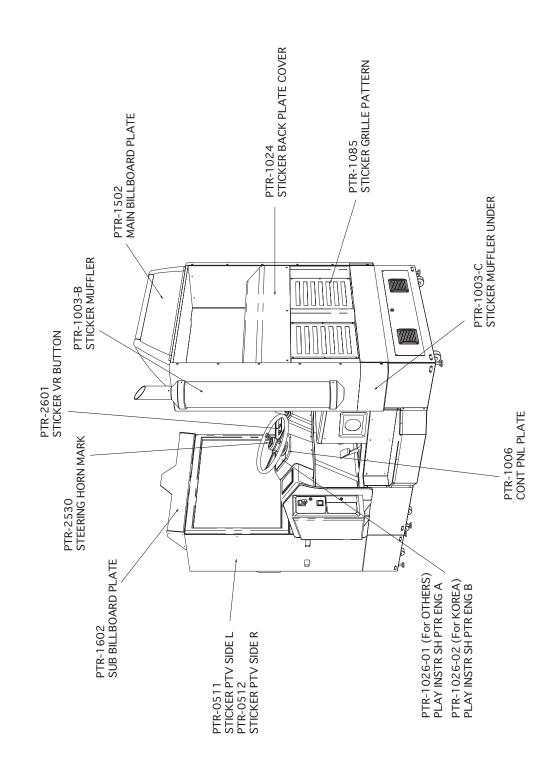
If Error display is shown on the screen, remove LID TOP FRONT without turning power off to check the 7-SEG display on the Drive Control Board. At this time, if the power is turned off, each of Er 23, 24, 25 and 30 (Error Code e1, 2, 3 and a) which could have occurred during operation may not be displayed.

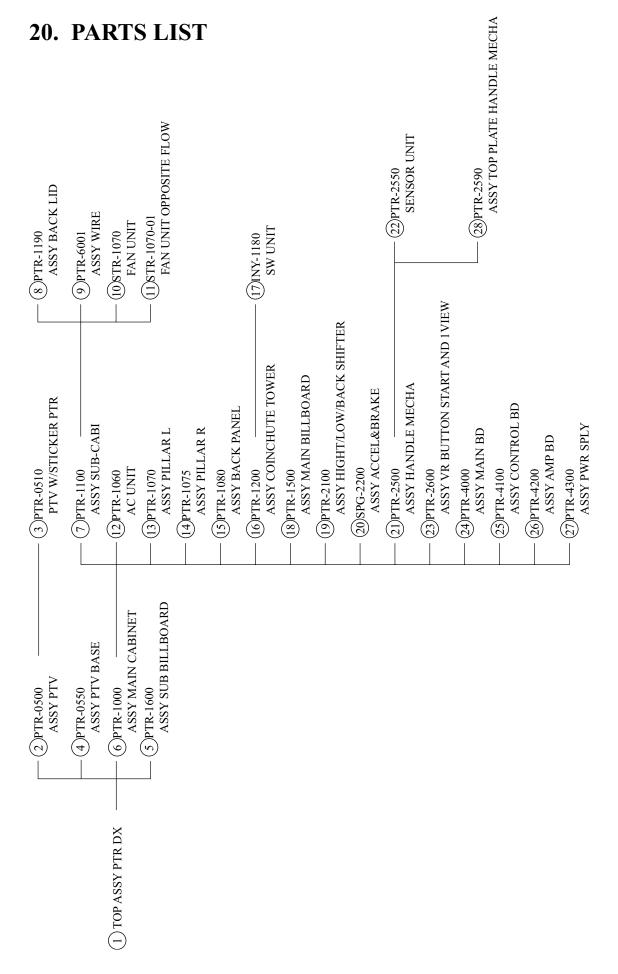
Perform the DIP SW setting on the DRIVE CONTROL BOARD as shown below.



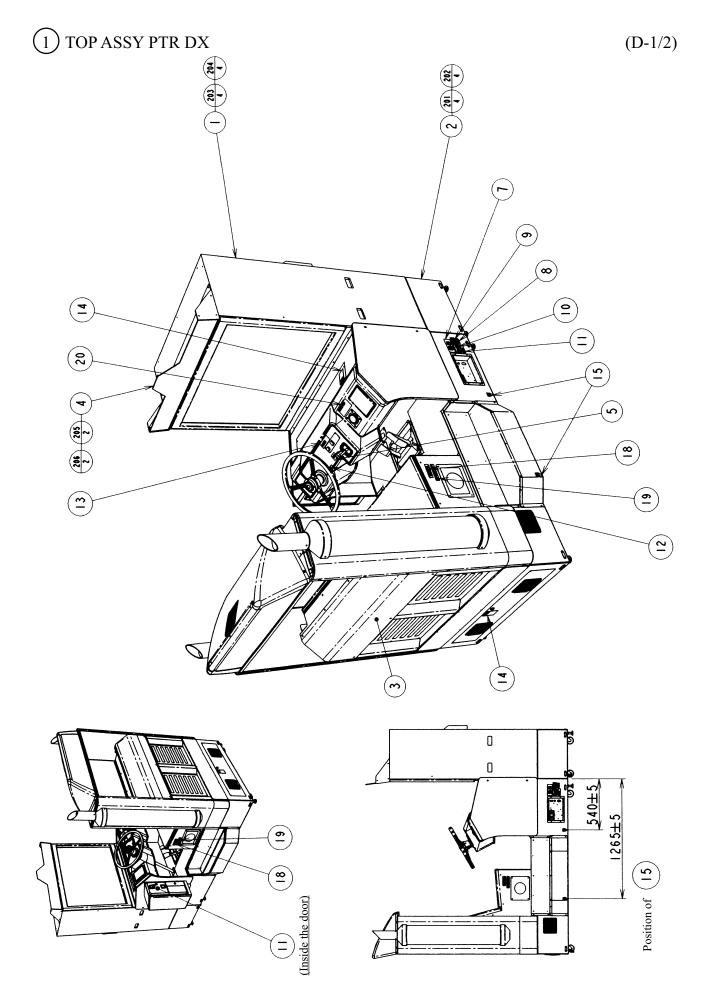
### **19. DESIGN RELATED PARTS**

For the Warning Display stickers, refer to Section 1.





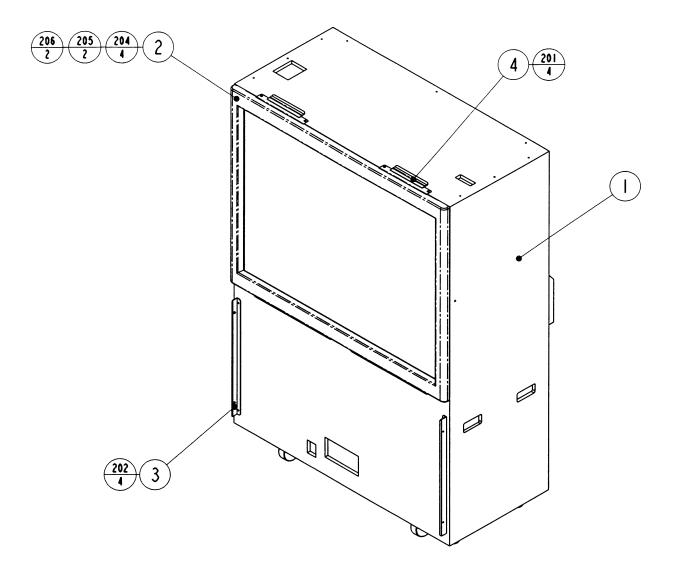
www.seuservice.com



### (1) TOP ASSY PTR DX

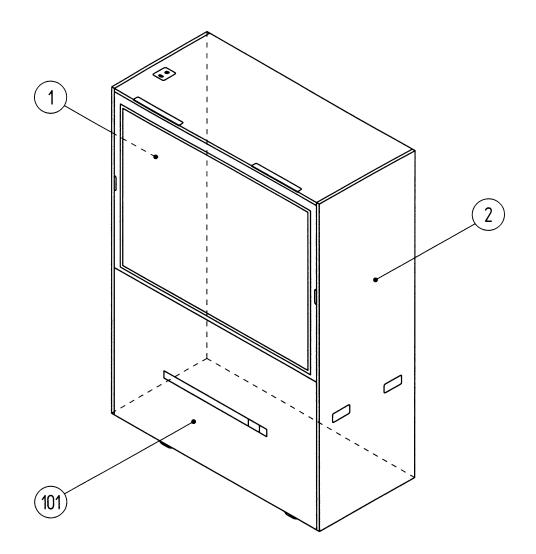
| ITEM NO.      | PART NO.      | DESCRIPTION                    | NOTE         |
|---------------|---------------|--------------------------------|--------------|
| 1             | PTR-0500      | ASSY PTV                       |              |
| 2             | PTR-0550      | ASSY PTV BASE                  |              |
| $\frac{2}{3}$ | PTR-1000      | ASSY MAIN CABINET              |              |
| 4             | PTR-1600      | ASSY SUB BILLBOARD             |              |
| 5             | 421-7308-~    | DENOMI SH 1GAME, ~             |              |
| 13            | 440-CS0186-EG | STICKER C EPILEPSY 40 ENG      |              |
| 13            | 440-WS0002XEG | STICKER W POWER OFF ENG        |              |
| 15            | 421-7020      | STICKER CAUTION FORK           |              |
| 16            | 421-8479-01   | STICKER INSTR SUNLIGHT ENG     |              |
| 17            | SGM-4365      | POLY COVER 1700 X 2200 X 1700  |              |
| 18            | 421-11245-01  | STICKER CAPACITY 2 SEATS ENG   |              |
| 19            | 440-CS0205-EG | STICKER C PTR FOR CHILD ENG    |              |
| 20            | 440-CS0206-EG | STICKER C PTR FOR PROTECTOR EG |              |
|               |               |                                |              |
| 201           | 030-000830-S  | HEX BLT W/S M8 X 30            |              |
| 202           | 068-852216    | FLT WSHR 8.5-22 X 1.6          |              |
| 203           | 000-T00540-0C | M SCR TH CRM M5 X 40           |              |
| 204           | 068-552016-0C | FLT WSHR CRM 5.5-20 X 1.6      |              |
| 205           | 000-T00516-0C | M SCR TH CRM M5 X 16           |              |
| 206           | 068-552016-0C | FLT WSHR CRM 5.5-20 X 1.6      |              |
| 207           | 008-T00412-0B | TMP PRF SCR TH BLK M4 X 12     |              |
|               |               |                                |              |
| 401           | 601-6604-70   | CARTON BOX 70                  |              |
| 402           | SGM-2675      | POLYETHYLENE BAG, 240 X 370    |              |
| 403           | 420-6545-01   | OWNERS MNL PTR DX ENG          |              |
| 405           | 390-6677-038  | LAMP WB 14V 3.8W (194)         |              |
| 406           | 600-6729      | AC CABLE CONNECT TYPE 15A      | AC 110V AREA |
|               | 600-6618      | AC CABLE CONNECT TYPE FOR EXP  |              |
|               | 600-6695      | AC CABLE CONNECT TYPE USA 15A  | AC 120V AREA |
| 407           | SGM-4111      | KEY BAG (SGB-1035X)            |              |
| 408           | 220-5576      | KEY MASTER FOR 220-5575        |              |
| 410           | 514-5086-6300 | FUSE S.B 6300MA 250V HBC CE    |              |
| 411           | 280-5009-01   | CORD CLAMP 21                  |              |
| 412           | 420-6455-01   | SERVICE MANUAL NAOMI ENG       |              |
| 413           | 509-5636      | SW MICRO TYPE SS-5GL2T         |              |
| 414           | 220-5484      | VOL CONT B-5K OHM              |              |
|               | 220-5373      | VOL CONT B-5K                  |              |
| /             | 105-5356      | SHIPPING BRKT                  |              |
| /             | 421-8740      | CAUTION INSTR COP U/R          |              |
| /             | 421-6690-03   | STICKER 220V                   | AC 220V AREA |
| /             | 421-6690-05   | STICKER 240V                   | AC 240V AREA |
| , ,           | 421-6690-06   | STICKER 110V                   | AC 110V AREA |
| , ,           | 421-6690-01   | STICKER 120V                   | AC 120V AREA |
| , ,           | 421-6119-91   | STICKER FCC                    | ςΩ           |
| , /           | 421-6120-92   | STICKER SEGA USA               | $\sim USA$   |
| ,             | .21 0120 72   |                                | -            |

(D-2/2)



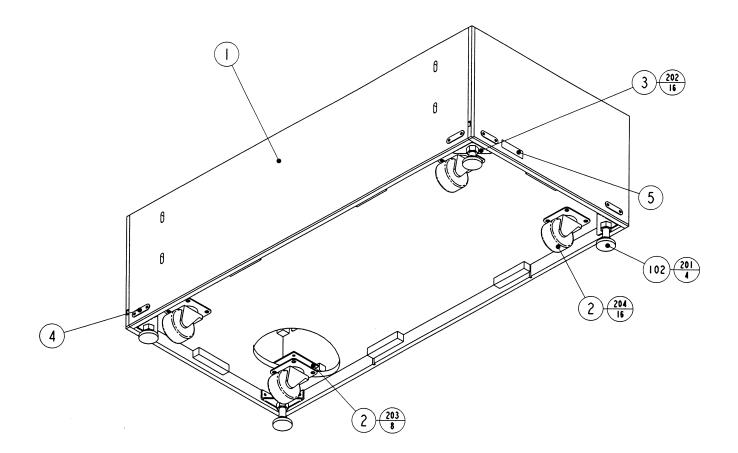
| ITEM NO. | PART NO.      | DESCRIPTION               | NOTE |
|----------|---------------|---------------------------|------|
|          |               |                           |      |
| 1        | PTR-0510      | PTV W/STICKER PTR         |      |
| 2        | MGL-1150      | ASSY MASK                 |      |
| 3        | HOD-1101      | PTV HOLDER                |      |
| 4        | RAL-0501      | MASK HOLDER               |      |
|          |               |                           |      |
| 201      | 000-F00412    | M SCR FH M4 X 12          |      |
| 202      | 000-P00516-W  | M SCR PH W/FS M5 X 16     |      |
| 204      | 000-P00520-W  | M SCR PH W/FS M5 X 20     |      |
| 205      | 000-T00525-0C | M SCR TH CRM M5 X 25      |      |
| 206      | 068-552016-0C | FLT WSHR CRM 5.5-20 X 1.6 |      |
|          |               |                           |      |

### (3) PTV W/STICKER PTR (PTR-0510)



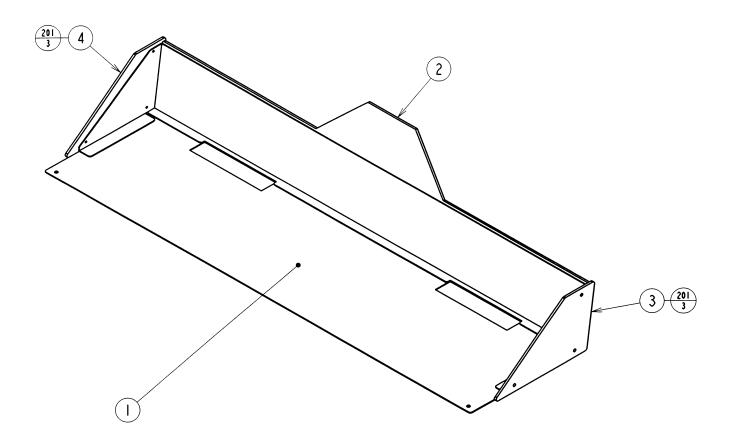
| ITEM NO. | PART NO.                   | DESCRIPTION  | NOTE |
|----------|----------------------------|--|------|
| 1<br>2   | PTR-0511<br>PTR-0512       | STICKER PTV SIDE L<br>STICKER PTV SIDE R                     |      |
| 101      | 200-5788-31<br>200-5799-31 | PROJECTION DSPL T 50TYPE 31K<br>PROJECTION DSPL M 50TYPE 31K |      |

### (4) ASSY PTV BASE (PTR-0550)

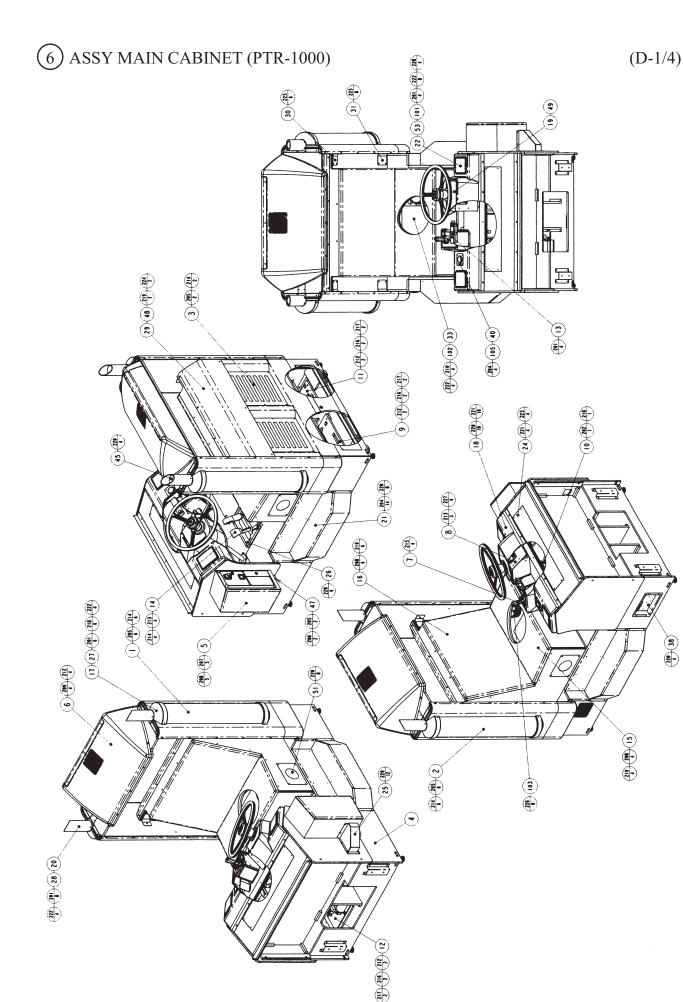


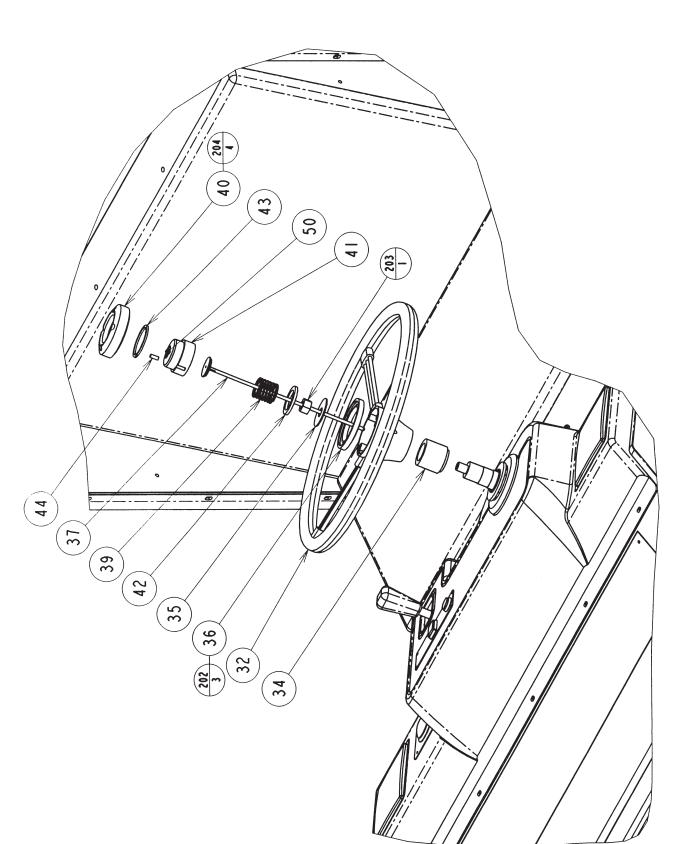
| ITEM NO. | PART NO.      | DESCRIPTION                | NOTE |
|----------|---------------|----------------------------|------|
| 1        | PTR-0551      | PTV BASE                   |      |
| 2        | SCR-1008      | NUT PLATE FOR CASTER       |      |
| 3        | ARC-1006      | LEG BRACKET                |      |
| 4        | 117-5233      | PLATE LEG BRACKET BLACK    |      |
| 101      | 601-9377      | CASTER FAI=75              |      |
| 102      | 601-5699X     | LEG ADJUSTER BOLT M16 X 75 |      |
| 201      | 050-H01600-0B | HEX NUT BLK M16            |      |
| 202      | 030-000630-SB | HEX BLT BLK W/S M6 X 30    |      |
| 203      | 011-P03512    | TAP SCR PH 3.5 X 12        |      |
| 204      | 030-000625-WB | HEX BLT W/FS BLK M6 X 25   |      |

### (5) ASSY SUB BILLBOARD (PTR-1600)



| ITEM NO. | PART NO.      | DESCRIPTION          | NOTE |
|----------|---------------|----------------------|------|
| 1        | PTR-1601      | SUB BILLBOARD BASE   |      |
| 2        | PTR-1602      | SUB BILLBOARD PLATE  |      |
| 3        | PTR-1604      | SIDE PLATE L         |      |
| 4        | PTR-1605      | SIDE PLATE R         |      |
| 201      | 000-T00412-0C | M SCR TH CRM M4 X 12 |      |





## 6 ASSY MAIN CABINET (PTR-1000)

| ITEM NO. | PART NO.                | DESCRIPTION                    | NOTE  |
|----------|-------------------------|--------------------------------|-------|
| 1        | PTR-1070                | ASSY PILLAR L                  |       |
| 2        | PTR-1075                | ASSY PILLAR R                  |       |
| 3        | PTR-1080                | ASSY BACK PANEL                |       |
| 4        | PTR-1100                | ASSY SUB-CABI                  |       |
| 5        | PTR-1200                | ASSY COINCHUTE TOWER           |       |
| 6        | PTR-1500                | ASSY MAIN BILLBOARD            |       |
| 7        | PTR-2100                | ASSY HIGH/LOW/BACK SHIFTER     |       |
| 8        | PTR-2500                | ASSY HANDLE MECHA              |       |
| 9        | PTR-4000                | ASSY MAIN BD                   |       |
| 10       | PTR-4100                | ASSY CONTROL BD                |       |
| 11       | PTR-4200                | ASSY AMP BD                    |       |
| 12       | PTR-4300                | ASSY PWR SPLY                  |       |
| 13       | PTR-2600                | ASSY VR BUTTON START AND 1VIEW |       |
| 13       | SPG-2200                | ASSY ACCEL & BRAKE             |       |
| 15       | PTR-1001                | SEAT                           |       |
| 16       | PTR-1002                | SEAT BACK                      |       |
| 10       | PTR-1002                | END CAP                        |       |
| 18       | PTR-1005                | CONTROL PANEL COVER            |       |
| 19       | PTR-1006                | CONT PNL PLATE                 |       |
| 20       | PTR-1007                | DESIGN PIPE                    |       |
| 20       | PTR-1008                | STEP                           |       |
| 21       | PTR-1010                | SPKR BRKT                      |       |
| 22       | PTR-1011                | PLATE HORN BUTTON              |       |
| 23       | PTR-1013                | LID TOP FRONT                  |       |
| 24       | PTR-1013                | WIRE COVER                     |       |
| 23<br>26 | PTR-1014<br>PTR-1015    | ACCEL BRKT                     |       |
| 20<br>27 | PTR-1015                | END CAP BRKT UPPER             |       |
| 27       | PTR-1018                | PIPE JOINT BRKT                |       |
| 28<br>29 | PTR-1018                | BACK PANEL COVER               |       |
| 30       | PTR-1020                | PILLAR CABI BRKT UPPER         |       |
| 31       | PTR-1020                | PILLAR CABI BRKT LOWER         |       |
| 32       | PTR-2501                | STEERING HANDLE                |       |
| 33       | STW-3031                | WOOFER BRKT                    |       |
| 34       | PTR-2507                | COLLAR HANDLE SHAFT            |       |
| 35       | PTR-2508                | WSHR HANDLE SHAFT              |       |
|          | PTR-2509                | COLLAR STEERING HUB            |       |
| 36<br>37 | PTR-2510                | ROD HORN BUTTON                |       |
| 37       | PTR-1060                | AC UNIT                        |       |
| 39       | PTR-2512                | COMP SPRING HORN BUTTON        |       |
| 40       | PTR-2512<br>PTR-2513    | FRM HORN BUTTON                |       |
| 40       | PTR-2514                | CAP HORN BUTTON                |       |
| 41       | PTR-2525                | CUSHION L                      |       |
| 42       | PTR-2525<br>PTR-2526    | CUSHION L<br>CUSHION U         |       |
| 43<br>44 |                         | PIN HORN BUTTON                |       |
| 44       | PTR-2527                |                                |       |
|          | PTR-1023                | PIPE SAFETY<br>TAG W LAMP ENG  |       |
| 46       | 440-WT0192-EG           |                                |       |
| 47       | PTR-1022                | TOWER SHELF                    |       |
| 48       | PTR-1024<br>PTR 1026 01 | STICKER BACK PANEL COVER       | OTHER |
| 49       | PTR-1026-01             | PLAY INSTR SH PTR ENG A        | OTHER |
| 50       | PTR-1026-02             | PLAY INSTR SH PTR ENG B        | KOREA |
| 50       | PTR-2530                | STEERING HORN MARK             |       |
| 51       | PTR-1115                | WOOFER NET                     |       |
| 53       | PTR-1027                | SPEAKER SPACER CUSHION         |       |

RS Ά

www.seuservice.com

(D-3/4)

# 6 ASSY MAIN CABINET (PTR-1000)

| ITEM NO. | PART NO.      | DESCRIPTION                    | NOTE |
|----------|---------------|--------------------------------|------|
| 101      | 130-5096      | ASSY SERVO SPEAKER BOX         |      |
| 102      | 130-5196      | WOOFER 40HM 80W                |      |
| 103      | 130-5172      | BASS SHAKER                    |      |
| 104      | 509-5966      | SW PB OBSA-60UM 14V 3.8W PTR   |      |
| 105      | 280-5275-SR10 | CORD CLAMP SR10                |      |
| 106      | 280-0419      | HARNESS LUG                    |      |
| 107      | 270-5117      | FERRITE CORE TDK ZCAT3035-1330 |      |
| 108      | 601-0460      | PLASTIC TIE BELT 100 MM        |      |
| 201      | 000-T00412-0C | M SCR TH CRM M4 X 12           |      |
| 202      | 000-P00420    | M SCR PH M4 X 20               |      |
| 203      | 050-H01600    | HEX NUT M16                    |      |
| 204      | 000-T00425-0C | M SCR TH CRM M4 X 25           |      |
| 205      | 030-000640-SB | HEX BLT W/S BLK M6 X 40        |      |
| 206      | 060-F00600-0B | FLT WSHR BLK M6                |      |
| 207      | 030-000840-SB | HEX BLT W/S BLK M8 X 40        |      |
| 208      | 068-852216    | FLT WSHR 8.5-22 X 1.6          |      |
| 209      | 000-T00550-0B | M SCR TH BLK M5 X 50           |      |
| 210      | 011-T03512    | TAP SCR TH 3.5 X 12            |      |
| 211      | 000-P00408-W  | M SCR PH W/FS M4 X 8           |      |
| 212      | 068-552016-0B | FLT WSHR BLK 5.5-20 X 1.6      |      |
| 213      | 030-000625-SB | HEX BLT W/S BLK M6 X 25        |      |
| 214      | 068-652016-0B | FLT WSHR BLK 6.5-20 X 1.6      |      |
| 215      | 030-00825-S   | HEX BOLT W/S M8 X 25           |      |
| 216      | 000-P00530    | M SCR PH M5 X 30               |      |
| 217      | 060-S00500    | SPR WSHR M5                    |      |
| 218      | 068-441616-0C | FLT WSHR CRM 4.4-16 X 1.6      |      |
| 219      | 050-H00800    | HEX NUT M8                     |      |
| 220      | 000-T00416-0B | M SCR TH BLK M4 X 16           |      |
| 221      | 068-441616-0B | FLT WSHR BLK 4.4-16 X1.6       |      |
| 222      | 000-P00420-WB | M SCR PH W/FS BLK M4 X 20      |      |
| 223      | 000-T00430-0B | M SCR TH BLK M4 X 30           |      |
| 224      | 000-T00416-0C | M SCR TH CRM M4 X 16           |      |
| 225      | 000-T00630-0B | M SCR TH BLK M6 X 30           |      |
| 226      | 050-F00400    | FLG NUT M4                     |      |
| 227      | 000-T00516    | M SCR TH M5 X 16               |      |
| 228      | 000-P00512-W  | M SCR PH W/FS M5 X 12          |      |
| 229      | 060-F00400    | FLT WSHR M4                    |      |
| 301      | PTR-60021     | WIRE HARN BASS                 |      |
| 302      | PTR-60028     | WIRE HARN HORN SUB             |      |
| 303      | PTR-60034     | WIRE HARN VR BUTTON            |      |
| 304      | PTR-60033     | WIRE HARN MOTOR CONTROL        |      |

(D-4/4)

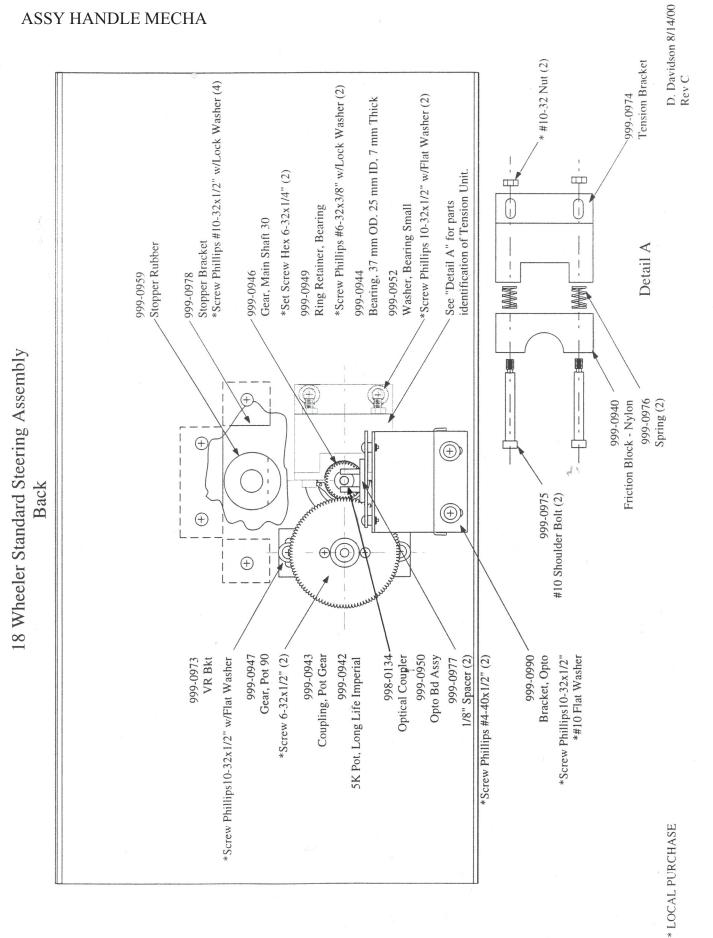
#### ASSY STEERING UNIT 18 Wheeler Std Steering Shaft Assembly PTR-2506 Stopper Ring B Assy \*\* PTR-2524 \*\*100-5357 See Drawing Collar B 18 Wheeler Std, Back Bearing 8 for detail of this area PTR-2523 \*999-0948 Collar A Ring Retainer, Bearing PTR-2503 Stopper Block PTR-2505 Stopper Ring A Assy \*\* 999-0989 \*\*100-5357 Screw Sck Hex 10-32x3/4" Bearing 8 Hardened \*\*999-0948 Ring Retainer, Bearing ш 999-0941 Rack & Pinion Assy Do not open, Spring 999-0991 and roller bearings Ring Retainer, Bearing under pressure. \*Screw Phillips #6-32x3/8" (Individual Parts not w/Lock Washer (2) available) 100-5052 999-0945 Bearing, 6007ZZ Hub, Spline 999-0951 Washer, Bearing Large 999-0955 Shaft, Steering 999-0936 Steering Wheel 999-0981 Nut 5/8-11 Nyloc 999-0938 Spring, Horn 999-0937 Horn Button 999-0939 **Bushing Horn** 999-0980

Screw 1/4-20x1 3/4" Tamper Proof Torx (4)

> D. Davidson 8/14/00 Rev A

\*\* Included in Assembly

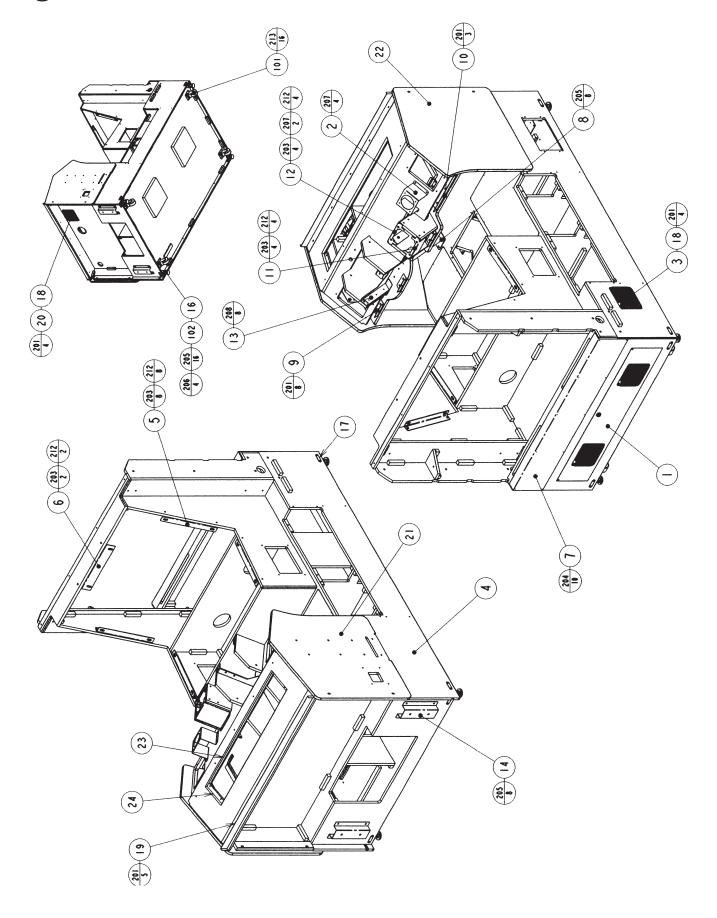
#### ASSY HANDLE MECHA



www.seuservice.com

106

#### (7) ASSY SUB-CABI (PTR-1100)



# (7) ASSY SUB-CABI (PTR-1100)

(D-2/3)

| ITEM NO. | PART NO.      | DESCRIPTION                 | NOTE |
|----------|---------------|-----------------------------|------|
| 1        | PTR-1190      | ASSY BACK LID               |      |
| 2        | PTR-1012      | BRKT HORN BUTTON            |      |
| 3        | STR-1070      | FAN UNIT                    |      |
| 4        | PTR-1101      | MAIN CABINET                |      |
| 5        | PTR-1102      | SEAT BRKT                   |      |
| 6        | PTR-1103      | SEAT BRKT UPPER             |      |
| 7        | PTR-1104      | BACK PLATE                  |      |
| 8        | PTR-1107      | DUMMY SHAFT                 |      |
| 9        | PTR-1108      | CTRL COVER BRKT A           |      |
| 10       | PTR-1109      | CTRL COVER BRKT B           |      |
| 10       | PTR-1111      | SHIFTER BRKT A              |      |
| 12       | PTR-1112      | SHIFTER BRKT B              |      |
| 12       | PTR-1113      | CTRL PNL REINFORCE          |      |
| 13       | PTR-1114      | JOINT BRKT                  |      |
| 16       | ARC-1006      | LEG BRACKET                 |      |
| 17       | 117-5233      | PLATE LEG BRACKET BLACK     |      |
| 18       | 253-5460-01   | AIR VENT BLACK              |      |
| 19       | PTR-1116      | SASH PTV                    |      |
| 20       | STR-1070-01   | FAN UNIT OPPOSITE FLOW      |      |
| 21       | PTR-1121      | STICKER CABI L              |      |
| 22       | PTR-1122      | STICKER CABI R              |      |
| 23       | PTR-1119      | WATER SEAL 865X10 T5        |      |
| 24       | PTR-1120      | WATER SEAL 120X10 T5        |      |
| 101      | 601-9377      | CASTER FAI=75               |      |
| 102      | 601-5699X     | LEG ADJUSTER BOLT M16 X 75  |      |
| 103      | 280-5009-01   | CORD CLAMP 21               |      |
| 104      | 280-0419      | HARNESS LUG                 |      |
| 105      | 601-0460      | PLASTIC TIE BELT 100 MM     |      |
| 106      | 117-5402-06   | EARTH TERMINAL PLATE 6P     |      |
| 107      | 280-5275-SR10 | CORD CLAMP SR10             |      |
| 201      | 000-T00420-0B | M SCR TH BLK M4 X 20        |      |
| 203      | FAS-000070    | M SCR TH BLK M6 X 25        |      |
| 204      | 079-000008    | SCR NAIL THH STNLS 1.5 X 16 |      |
| 205      | 030-000630-SB | HEX BLT BLK W/S M6 X 30     |      |
| 206      | 050-H01600-0B | HEX NUT BLK M16             |      |
| 207      | 000-P00416-WB | M SCR PH W/FS BLK M4 X 16   |      |
| 208      | 011-P00412    | TAP SCR PH 4 X 12           |      |
| 209      | 011-F00312    | TAP SCR FH 3 X 12           |      |
| 210      | 011-T03512    | TAP SCR TH 3.5 X 12         |      |
| 211      | 011-F03516    | TAP SCR FH 3.5 X 16         |      |
| 212      | 068-652016-0B | FLT WSHR BLK 6.5-20 X 1.6   |      |
| 213      | 030-000625-WB | HEX BLT W/FS BLK M6 X 25    |      |
|          |               |                             |      |

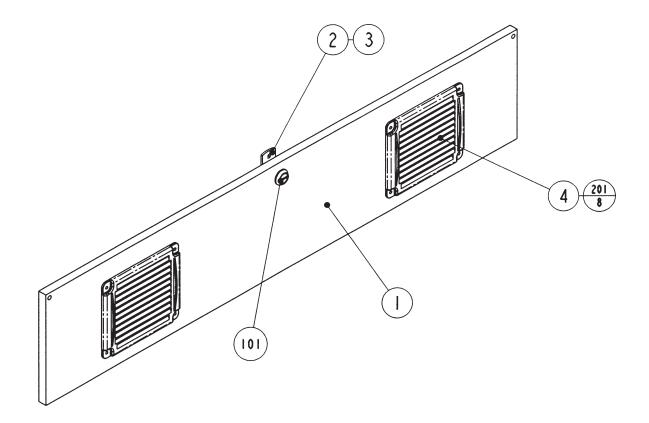
# (7) ASSY SUB-CABI (PTR-1100)

| ITEM NO. | PART NO.      | DESCRIPTION                |
|----------|---------------|----------------------------|
| 301      | PTR-60005     | WIRE HARN AC FRONT         |
| 302      | PTR-60006     | WIRE HARN AC BACK          |
| 303      | PTR-60031     | WIRE HARN MOTOR            |
| 304      | PTR-60032     | WIRE HARN ENCODER          |
| 305      | PTR-60103     | WIRE HARN EARTH SHIFTER    |
| 306      | 600-6972-1200 | WIRE HARN EARTH ID5 1200MM |
| 307      | 600-6972-1800 | WIRE HARN EARTH ID5 1800MM |
| 308      | 600-6972-0750 | WIRE HARN EARTH ID5 0750MM |
| 309      | PTR-6001      | ASSY WIRE                  |
| 310      | PTR-60102     | WIRE HARN EARTH PEDAL      |

(D-3/3)

NOTE

#### (8) ASSY BACK LID (PTR-1190)



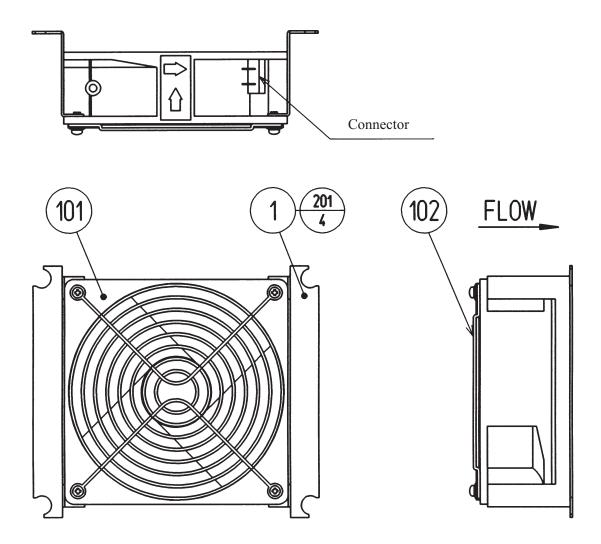
| ITEM NO.         | PART NO.  | DESCRIPTION  | NOTE |
|------------------|---|--|------|
| 1<br>2<br>3<br>4 | PTR-1191<br>DP-1148X<br>117-0062<br>253-5460-01 | BACK LID<br>LKG TNG<br>PLATE LOCK RETAINER<br>AIR VENT BLACK |      |
| 101              | 220-5575  | CAM LOCK MASTER W/O KEY                                      |      |
| 201              | 000-T00416-0B                                   | M SCR TH BLK M4 X 16   |      |

### (9) ASSY WIRE (PTR-6001)

ASSY WIRE (PTR-6001) is comprised of the following wire harnesses. An ASSY DRG. is unavailable.

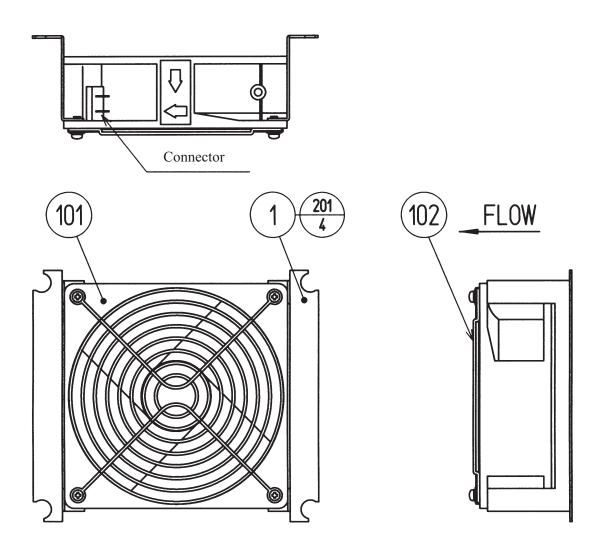
| ITEM NO. | PART NO.      | DESCRIPTION                  | NOTE |
|----------|---------------|------------------------------|------|
| 101      | 601-0460      | PLASTIC TIE BELT 100 MM      |      |
| 301      | PTR-60018     | WIRE HARN WOOFER 2           |      |
| 302      | PTR-60019     | WIRE HARN SPEARKER 2         |      |
| 303      | PTR-60020     | WIRE HARN VOLUME 2           |      |
| 304      | PTR-60024     | WIRE HARN IO                 |      |
| 305      | PTR-60025     | WIRE HARN ANALOG             |      |
| 306      | PTR-60027     | WIRE HARN DC DRIVE           |      |
| 308      | 600-7009-4000 | ASSY RGB CA D-SUB 15P 4000MM |      |

#### (10) FAN UNIT (STR-1070)



| ITEM NO.   | PART NO.                | DESCRIPTION                                | NOTE |
|------------|-------------------------|--|------|
| 1          | 105-5340-01             | FAN BRKT LONG                              |      |
| 101<br>102 | 260-0011-02<br>601-8543 | AXIAL FLOW FAN AC100V 50-60HZ<br>FAN GUARD |      |
| 201        | 000-P00312-W            | M SCR PH W/FS M3 X 12                      |      |

#### (11) FAN UNIT OPPOSITE FLOW (STR-1070-01)



| ITEM NO.   | PART NO.                | DESCRIPTION                                | NOTE |
|------------|-------------------------|--|------|
| 1          | 105-5340-01             | FAN BRKT LONG                              |      |
| 101<br>102 | 260-0011-02<br>601-8543 | AXIAL FLOW FAN AC100V 50-60HZ<br>FAN GUARD |      |
| 201        | 000-P00312-W            | M SCR PH W/FS M3 X 12                      |      |

### (12) AC UNIT (PTR-1060)

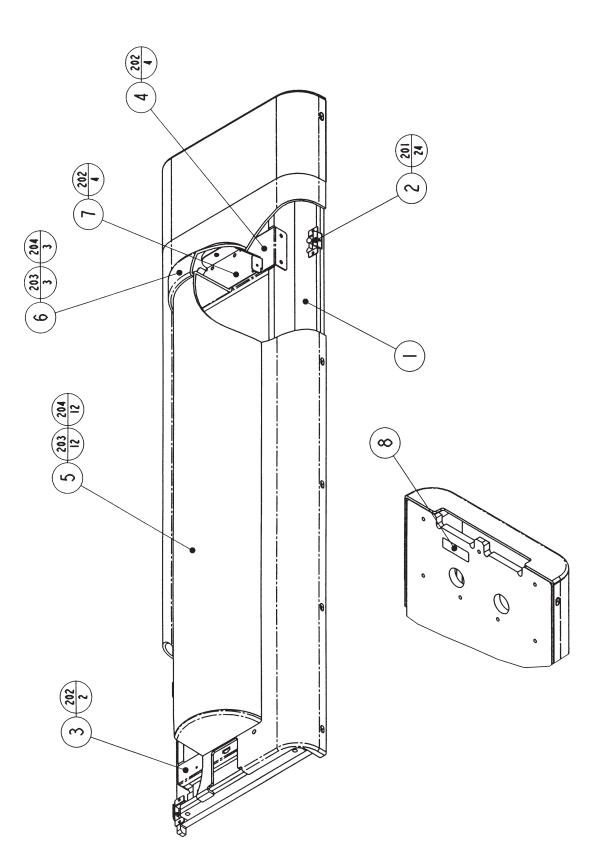
Ð 103 104 \$ \$ .... È. <u>G</u>  $\sim$ 0 0 0  $igodoldsymbol{ extsf{b}}$ 6 0 0 102 0 n ۲ ິຕົ 0 0 ٩ Ф ф 4 (106)

(D-1/2)

## (12) AC UNIT (PTR-1060)

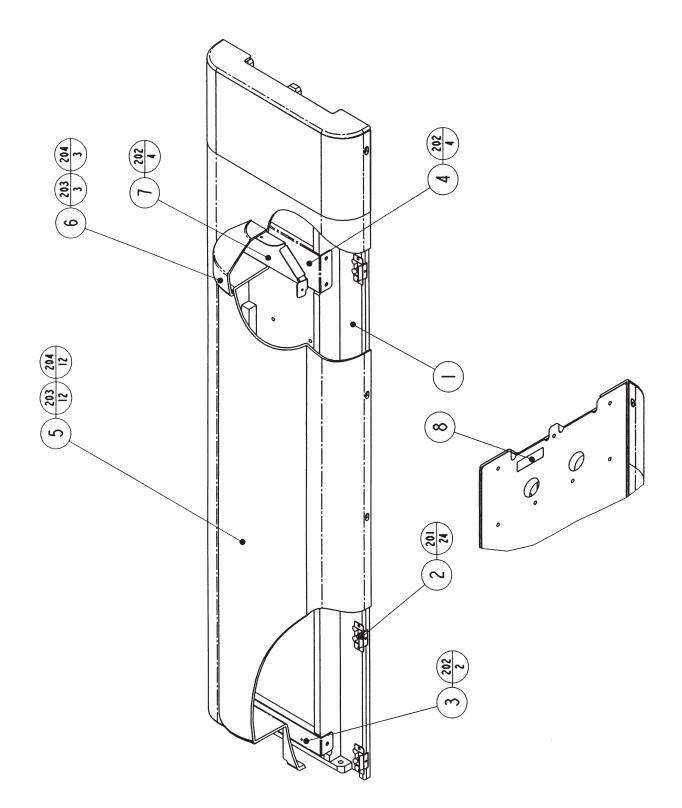
| ITEM NO. | PART NO.         | DESCRIPTION                             | NOTE               |
|----------|------------------|---|--------------------|
| 1        | FRI-1021         | AC BRACKET                              |                    |
| 2        | 421-7468-01      | STICKER C.P W/PIC                       |                    |
| 3        | 421-8202         | STICKER EARTH MARK                      |                    |
| 4        | FRI-1022         | CONNECTOR LID                           |                    |
| 101      | 214-0202         | AC INLET PANEL TYPE                     |                    |
| 102      | 280-0417         | TERMINAL BINDING POST BLACK<br>NOT USED | TAIWAN<br>OTHERS   |
| 103      | 509-5453-91-V-B  | SW ROCKER J8 V-B                        | 0 THERE            |
| 104      | 512-5046-10000   | C.P 10000MA CE UL                       | AC 110 ~ 120V AREA |
|          | 512-5046-5000    | C.P 5000MA CE UL                        | AC 220 ~ 240V AREA |
| 105      | 450-5126         | MAGNET CONTACT S-NIOCX                  | AC 110V AREA       |
|          | 450-5133         | MAGNET CONTACT S-NIOCX AC 200V          |                    |
|          | 450-5134         | MAGNET CONTACT S-NIOCX AC 230V          |                    |
|          | 450-5135         | MAGNET CONTACT S-NIOCX AC 120V          | AC 120V AREA       |
| 106      | 270-5081         | NOISE FILTER 20A                        |                    |
| 108      | 310-5029-G20     | SUMITUBE F G 20MM                       |                    |
| 109      | 601-0460         | PLASTIC TIE BELT 100 MM                 |                    |
| 201      | 000-P00416-W     | M SCR PH W/FS M4 X 16                   |                    |
| 202      | 000-P00408-W     | M SCR PH W/FS M4 X 8                    |                    |
| 203      | 050-H00400       | HEX NUT M4                              |                    |
| 204      | 060-S00400       | SPR WSHR M4                             |                    |
| 205      | 060-F00400       | FLT WSHR M4                             |                    |
| 206      | 000-T00408-0B    | M SCR TH BLK M4 X 8                     |                    |
| 301      | FRI-60001        | WIRE HARN AC INLET A                    |                    |
| 302      | FRI-60002        | WIRE HARN AC INLET B                    |                    |
| 303      | FRI-60003        | WIRE HARN EARTH AC INLET                |                    |
| 304      | FRI-60004        | WIRE HARN CP                            |                    |
| 305      | FRI-60005        | WIRE HARN MAIN SW                       |                    |
| 306      | FRI-60006        | WIRE HARN FILTER IN                     |                    |
| 307      | PTR-60001        | WIRE HARN AC UNIT                       |                    |
| 308      | 600-6972-0100    | WIRE HARN EARTH ID5 0100MM              | TAIWAN             |
| 200      | <b>DTD</b> (0101 | NOT USED                                | OTHERS             |
| 309      | PTR-60101        | WIRE HARN EARTH AC UNIT                 |                    |
| /        | 008-T00412-0B    | TMP PRF SCR TH BLK M4 X 12              |                    |

(D-2/2)



| ITEM NO.                 | PART NO.  | DESCRIPTION   | NOTE |
|--------------------------|---|---|------|
| 1<br>2<br>3              | PTR-1071<br>PTR-1072<br>PTR-1073                              | PILLAR BASE<br>PILLAR COVER BRKT<br>UPPER BRKT  |      |
| 4<br>5<br>6              | PTR-1073<br>PTR-1074<br>PTR-1003<br>PTR-1004                  | LOWER BRKT<br>PILLAR COVER<br>END CAP   |      |
| 7                        | PTR-1017  | END CAP BRKT LOWER  |      |
| 201<br>202<br>203<br>204 | 011-P03512<br>000-P00420-WB<br>000-T00412-0C<br>068-441616-0C | TAP SCR PH 3.5 X 12<br>M SCR PH W/FS BLK M4 X 20<br>M SCR TH CRM M4 X 12<br>FLT WSHR CRM 4.4-16 X 1.6 |      |

(D-2/2)



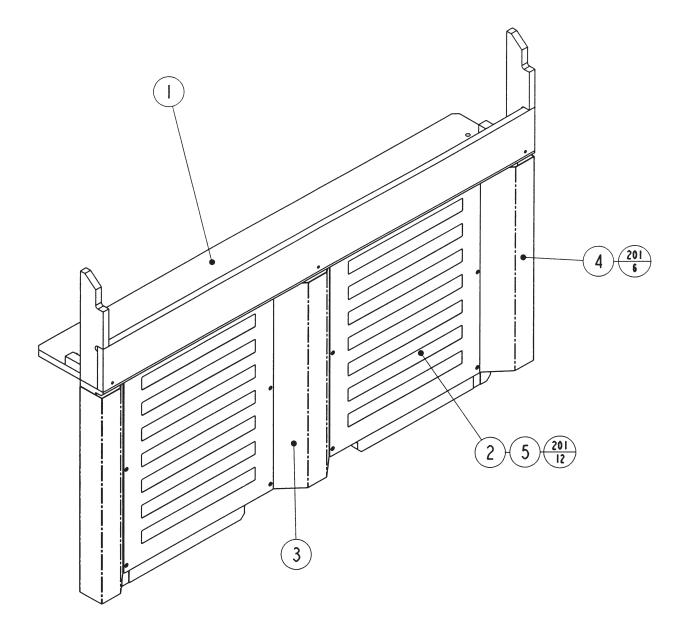
### (14) ASSY PILLAR R (PTR-1075)

| ITEM NO. | PART NO.      | DESCRIPTION               |
|----------|---------------|---------------------------|
| 1        | PTR-1071      | PILLAR BASE               |
| 2        | PTR-1072      | PILLAR COVER BRKT         |
| 3        | PTR-1073      | UPPER BRKT                |
| 4        | PTR-1074      | LOWER BRKT                |
| 5        | PTR-1003      | PILLAR COVER              |
| 6        | PTR-1004      | END CAP                   |
| 7        | PTR-1017      | END CAP BRKT LOWER        |
| 101      | 280-0419      | HARNESS LUG               |
| 201      | 011-P03512    | TAP SCR PH 3.5 X 12       |
| 202      | 000-P00420-WB | M SCR PH W/FS BLK M4 X 20 |
| 203      | 000-T00412-0C | M SCR TH CRM M4 X 12      |
| 204      | 068-441616-0C | FLT WSHR CRM 4.4-16 X 1.6 |
| 301      | PTR-60007     | WIRE HARN AC PILLAR       |

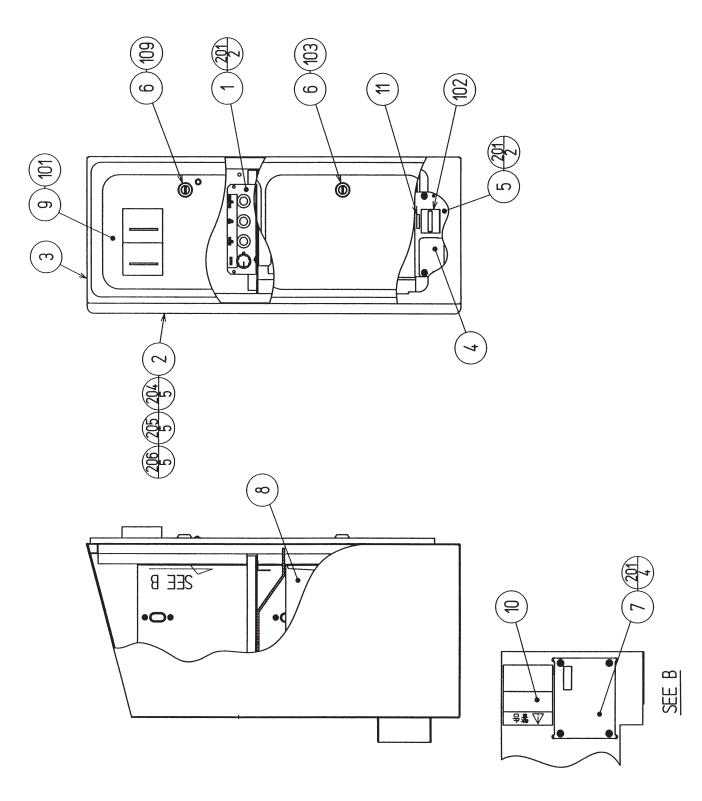
(D-2/2)

NOTE

### (15) ASSY BACK PANEL (PTR-1080)



| ITEM NO. | PART NO.      | DESCRIPTION            | NOTE |
|----------|---------------|------------------------|------|
| 1        | PTR-1081      | BACK PANEL             |      |
| 2        | PTR-1082      | DESIGN PLATE           |      |
| 3        | PTR-1083      | DESIGN PILLAR          |      |
| 4        | PTR-1084      | DESIGN SIDE PILLAR     |      |
| 5        | PTR-1085      | STICKER GRILLE PATTERN |      |
| 201      | 000-T00416-0C | M SCR TH CRM M4 X 16   |      |

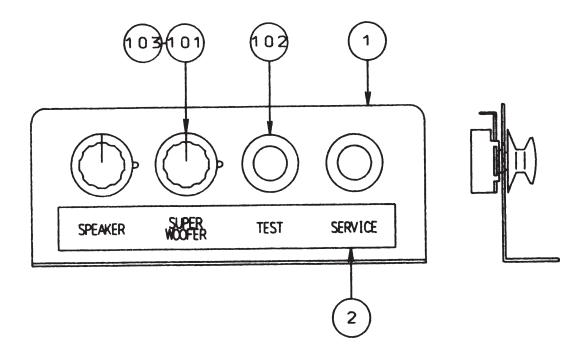


# (16) ASSY COINCHUTE TOWER (PTR-1200)

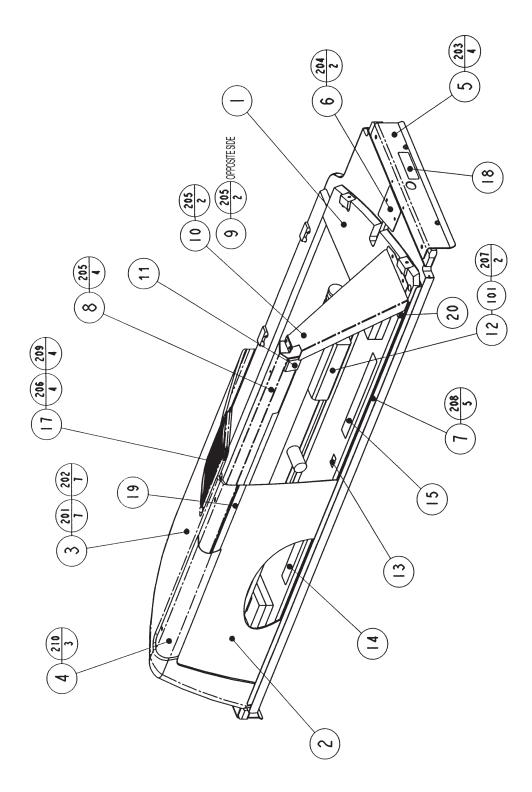
| ITEM NO. | PART NO.      | DESCRIPTION                                | NOTE |
|----------|---------------|--|------|
| 1        | INY-1180      | SW UNIT                                    |      |
| 2        | PTR-1201      | TOWER COVER L                              |      |
| 3        | APC-0301      | COINCHUTE TOWER                            |      |
| 4        | APC-0302      | METER HOLE LID                             |      |
| 5        | DRT-0301X     | COIN METER BRKT                            |      |
| 6        | DP-1167       | TNG LKG                                    |      |
| 7        | 105-5171      | CHUTE PLATE SINGLE                         |      |
| 8        | 253-5366      | CASH BOX                                   |      |
| 9        | 421-7501-02   | STICKER 6.3V 0.15A                         |      |
| 10       | 440-WS0002XEG | STICKER W POWER OFF ENG                    |      |
| 11       | 421-6591-01   | STICKER COIN METER                         |      |
| 101      | 220 5225 02   |  |      |
| 101      | 220-5237-92-~ | ASSY C.C 2DR ~                             |      |
| 102      | 220-5482-91-~ | ASSY C.C 2DR ~                             |      |
| 102      | 220-5643-01   | MAG CNTR DC5V 6P WH MZ-674-D04             |      |
| 103      | 220-5574      | CAM LOCK W/KEYS                            |      |
| 104      | 601-0460      | PLASTIC TIE BELT 100 MM                    |      |
| 105      | 280-5275-SR10 | CORD CLAMP SR10                            |      |
| 106      | 280-5009-01   | CORD CLAMP 21                              |      |
| 107      | 310-5029-F20  | SUMITUBE F F 20MM                          |      |
| 108      | 601-6231-C045 | EDGING NEW TYPE<br>CAM LOCK MASTER W/O KEY |      |
| 109      | 220-5575      | CAM LOCK MASTER W/O KEY                    |      |
| 201      | 000-P00408-W  | M SCR PH W/FS M4 X 8                       |      |
| 202      | 000-P00408-S  | M SCR PH W/S M4 X 8                        |      |
| 203      | 060-F00400    | FLT WSHR M4                                |      |
| 204      | 050-H00800    | HEX NUT M8                                 |      |
| 205      | 068-852216    | FLT WSHR 8.5-22 X 1.6                      |      |
| 206      | 060-S00800    | SPR WSHR M8                                |      |
|          |               |  |      |
| 301      | PTR-60022     | WIRE HARN VOLUME 3                         |      |
| 302      | PTR-60023     | WIRE HARN COINCHUTE TOWER                  |      |
| 303      | 600-6455-02   | WIRE HARN C.C DOOR SINGLE                  |      |
| 304      | 600-6972-0750 | WIRE HARN EARTH ID5 0750MM                 |      |
| 305      | 600-6972-0300 | WIRE HARN EARTH ID5 0300MM                 |      |
| 306      | 600-6972-0150 | WIRE HARN EARTH ID5 0150MM                 |      |
|          |               |  |      |

(D-2/2)

### (17) SW UNIT (INY-1180)

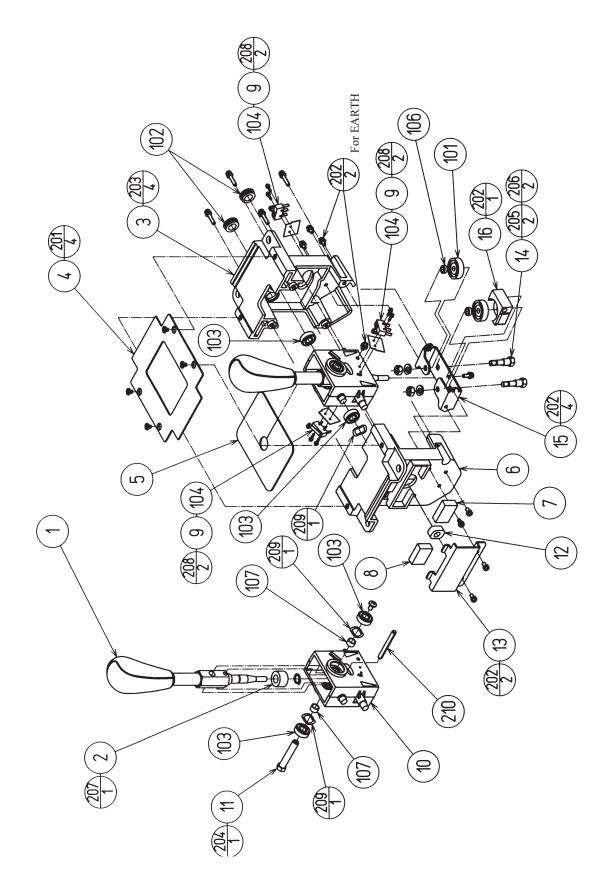


| ITEM NO. | PART NO.     | DESCRIPTION              | NOTE |
|----------|--------------|--------------------------|------|
| 1        | INY-1181     | SW BRKT                  |      |
| 2        | 421-8911     | STICKER SW UNIT          |      |
| 101      | 220-5179     | VOL CONT B-5K OHM        |      |
| 102      | 509-5028     | SW PB 1M                 |      |
| 103      | 601-0042     | KNOB 22 MM               |      |
| 104      | 310-5029-D20 | SUMITUBE F D 20 MM       |      |
| 105      | 601-0460     | PLASTIC TIE BELT 100 MM  |      |
| 301      | 600-6609-32  | WIRE HARN TEST & SERVICE |      |
| 302      | 600-6609-33  | WIRE HARN VOLUME A       |      |
| 303      | 600-6609-34  | WIRE HARN VOLUME B       |      |



# (18) ASSY MAIN BILLBOARD (PTR-1500)

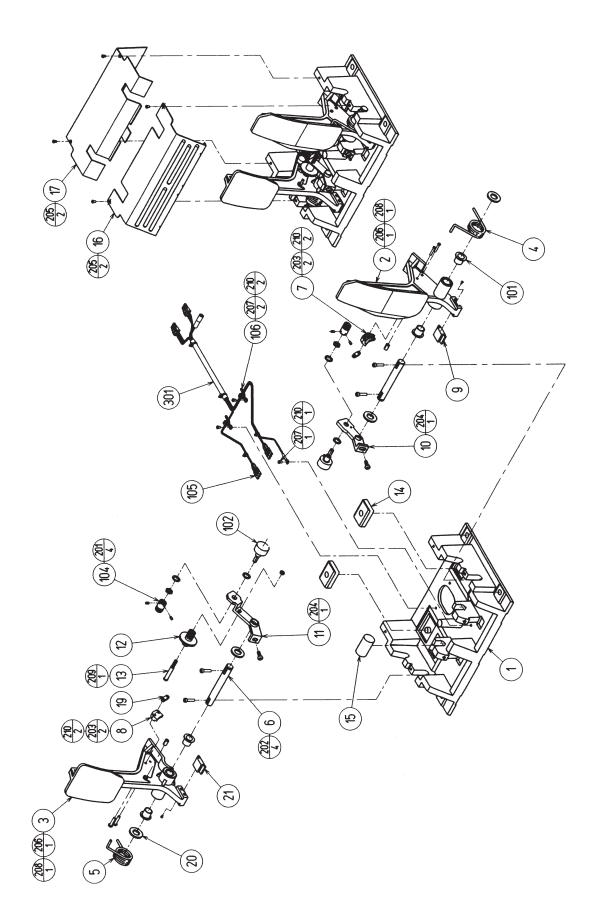
| ITEM NO. | PART NO.      | DESCRIPTION                    | NOTE   |
|----------|---------------|--------------------------------|--------|
| 1        | PTR-1501      | MAIN BILLBOARD BASE            |        |
| 2        | PTR-1502      | MAIN BILLBOARD PLATE           |        |
| 3        | PTR-1503      | MAIN BILLBOARD COVER           |        |
| 4        | PTR-1504      | SASH                           |        |
| 5        | PTR-1505      | BILL JOINT BRKT                |        |
| 6        | PTR-1506      | BILL WIRE COVER                |        |
| 7        | PTR-1507      | SASH LOWER                     |        |
| 8        | PTR-1508      | SASH BRKT                      |        |
| 9        | PTR-1509      | SIDE GUIDE L                   |        |
| 10       | PTR-1510      | SIDE GUIDE R                   |        |
| 11       | PTR-1511      | CUSHION                        |        |
| 12       | 253-5457      | FL HOLDER                      | OTHERS |
|          |               | Locally supplied.              | USA    |
| 13       | 421-7501-18   | STICKER FL32W                  | OTHERS |
|          |               | Locally supplied.              | USA    |
| 14       | 440-WS0143-EG | STICKER W POWER OFF WIDE ENG   |        |
| 15       | 440-WS0027-EG | STICKER W HIGH TEMP WIDE ENG   |        |
| 17       | 253-5460-01   | AIR VENT BLACK                 |        |
| 19       | PTR-1512      | CUSHION UPPER                  |        |
| 20       | PTR-1513      | CUSHION LOWER                  |        |
| 101      | 390-6659-32EX | ASSY FL32W EX W/CONN HIGH S CE | OTHERS |
|          |               | Locally supplied.              | USA    |
| 102      | 280-0419      | HARNESS LUG                    |        |
| 201      | 000-T00418-0C | M SCR TH CRM M4 X 18           |        |
| 202      | 068-441616-0C | FLT WSHR CRM 4.4-16 X 1.6      |        |
| 203      | 000-T00620-0B | M SCR TH BLK M6 X 20           |        |
| 204      | 000-T00410-0B | M SCR TH M4 X 10 BLK           |        |
| 205      | 000-P00416-WB | M SCR PH W/FS BLK M4 X 16      |        |
| 206      | 000-T00416-0B | M SCR TH BLK M4 X 16           |        |
| 207      | 000-P00440-W  | M SCR PH W/FS M4 X 40          | OTHERS |
|          |               | Locally supplied.              | USA    |
| 208      | 011-T03516    | TAP SCR TH 3.5 X 16            |        |
| 209      | 050-F00400    | FLG NUT M4                     |        |
| 210      | 000-T00412-0C | M SCR TH CRM M4 X 12           |        |
| 301      | PTR-60008     | WIRE HARN AC BILLBOARD MAIN    |        |



| ITEM NO. | PART NO.     | DESCRIPTION                 |
|----------|--------------|-----------------------------|
| 1        | SPG-2151     | SHIFT KNOB                  |
| 2        | SPG-2152     | STOPPER RUBBER              |
| 3        | SPG-2153     | FRONT BASE                  |
| 4        | SPG-2154     | SLIDE COVER                 |
| 5        | SPG-2155     | SLIDE PLATE                 |
| 6        | SPG-2156     | REAR BASE                   |
| 7        | SPG-2157     | RUBBER BLOCK 45             |
| 8        | SPG-2158     | RUBBER BLOCK 65             |
| 9        | SPG-2159     | INSULATOR SHEET             |
| 10       | SPG-2160X    | SHAFT CASE                  |
| 11       | SPG-2161     | SHAFT BOLT                  |
| 12       | SPG-2162     | CENTERING BLOCK             |
| 13       | SPG-2163     | RUBBER CASE                 |
| 14       | SPG-2164     | ROLLER BOLT                 |
| 15       | PTR-2101     | ROLLER SUPPORT              |
| 16       | PTR-2102     | GUIDE                       |
|          |              |                             |
| 101      | 100-5252     | BEARING ROLLER 25           |
| 102      | 100-5193     | GROMMET 11                  |
| 103      | 100-5242     | BEARING FAI 8               |
| 104      | 509-5636     | SW MICRO TYPE SS-5GL2T      |
| 105      | 601-0460     | PLASTIC TIE BELT 100 MM     |
| 106      | 280-5306     | SPACER FAI 6 X 30           |
| 107      | 280-5307     | SPACER FAI 8 X 55           |
| 201      | 000-F00408   | M SCR FH M4 X 8             |
| 201      | 000-P00410-W | M SCR PH W/FS M4 X 10       |
| 202      | 000-P00420-W | M SCR PH W/FS M4 X 20       |
| 203      | 000-P00510-W | M SCR PH W/FS M5 X 10       |
| 205      | 050-H00600   | HEX NUT M6                  |
| 206      | 060-S00600   | SPR WSHR M6                 |
| 207      | 065-S010S0-Z | STP RING BLK OZ S10         |
| 208      | FAS-000033   | M SCR PH W/FS M2.3 X 12     |
| 209      | FAS-650008   | WAVE WSHR 12.7-18.1 X 2.5   |
| 210      | FAS-450006   | SPR PIN WAVE STN 5 X 45     |
| 301      | 600-6445-45  | WIRE HARN SHIFT MECHA       |
| 302      | 600-6872     | WIRE HARN EARTH SHIFT MECHA |
|          |              |                             |

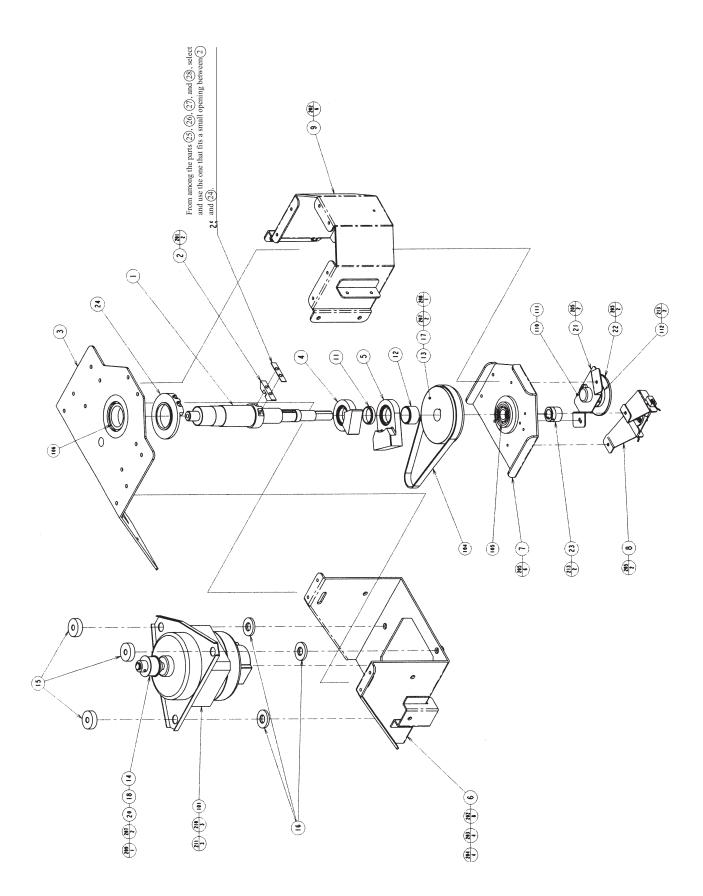
(D-2/2)

NOTE



## (20) ASSY ACCEL&BRAKE (SPG-2200)

| ITEM NO. | PART NO.      | DESCRIPTION                   | NOTE |
|----------|---------------|-------------------------------|------|
| 1        | SPG-2201      | BASE                          |      |
| 2        | SPG-2202      | ACCEL PEDAL                   |      |
| 3        | SPG-2203      | BRAKE PEDAL                   |      |
| 4        | SPG-2204      | ACCEL SPRING                  |      |
| 5        | SPG-2205      | BRAKE SPRING                  |      |
| 6        | SPG-2206      | SHAFT                         |      |
| 7        | SPG-2207      | ACCEL GEAR                    |      |
| 8        | SPG-2208      | BRAKE GEAR                    |      |
| 9        | SPG-2209      | NEUTRAL STOPPER               |      |
| 10       | SPG-2210      | VR PLATE ACCEL                |      |
| 11       | SPG-2211      | VR PLATE BRAKE                |      |
| 12       | SPG-2212      | AMPL GEAR                     |      |
| 13       | SPG-2213      | GEAR SHAFT                    |      |
| 14       | SPG-2214      | STOPPER                       |      |
| 15       | SPG-2215      | RUBBER CUSHION                |      |
| 16       | SPG-2216      | COVER                         |      |
| 17       | SPG-2217      | VR COVER                      |      |
| 19       | SPG-2219      | GEAR STAY                     |      |
| 20       | SPG-2220      | WSHR                          |      |
| 21       | SPG-2221      | NEUTRAL STOPPER D             |      |
| 101      | 100-5263      | BEARING 12                    |      |
| 102      | 220-5484      | VOL CONT B-5K OHM             |      |
| 104      | 601-7944      | GEAR 15                       |      |
| 105      | 310-5029-F15  | SUMITUBE F F 15MM             |      |
| 106      | 280-0419      | HARNESS LUG                   |      |
| 201      | 028-A00304-P  | SET SCR HEX SKT CUP P M3 X 4  |      |
| 202      | 020-000520-0Z | HEX SKT H CAP SCR BLK M5 X 20 |      |
| 203      | 000-P00420    | M SCR PH M4 X 2               |      |
| 204      | 000-P00508-W  | M SCR PH W/FS M5 X 8          |      |
| 205      | 000-T00408-0C | M SCR TH CRM M4 X 8           |      |
| 206      | FAS-450005    | SPR PIN BLK OZ 6 X 10         |      |
| 207      | 000-P00405    | M SCR PH M4 X 5               |      |
| 208      | FAS-000001    | M SCR TH CRM M3 X 6           |      |
| 209      | 050-H00500    | HEX NUT M5                    |      |
| 210      | 060-F00400    | FLT WSHR M4                   |      |
| 301      | 600-6840      | WIRE HARN ACCEL&BRAKE         |      |

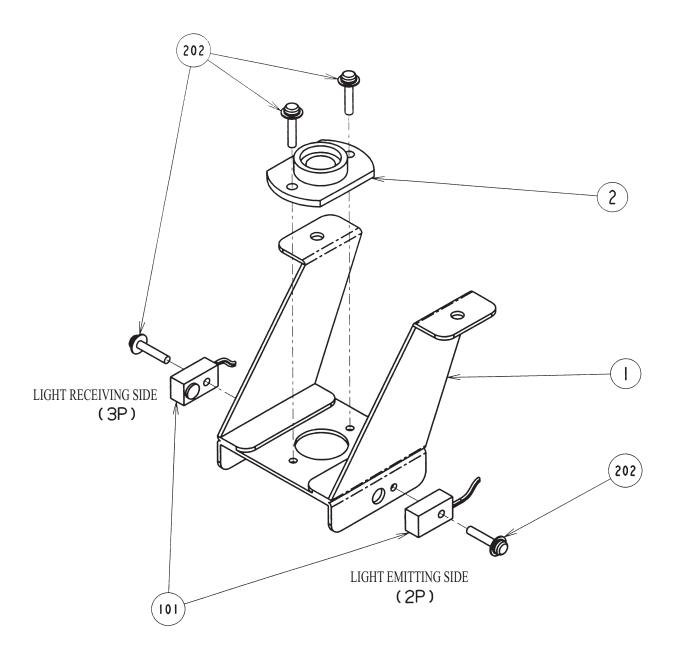


## (21) ASSY HANDLE MECHA (PTR-2500)

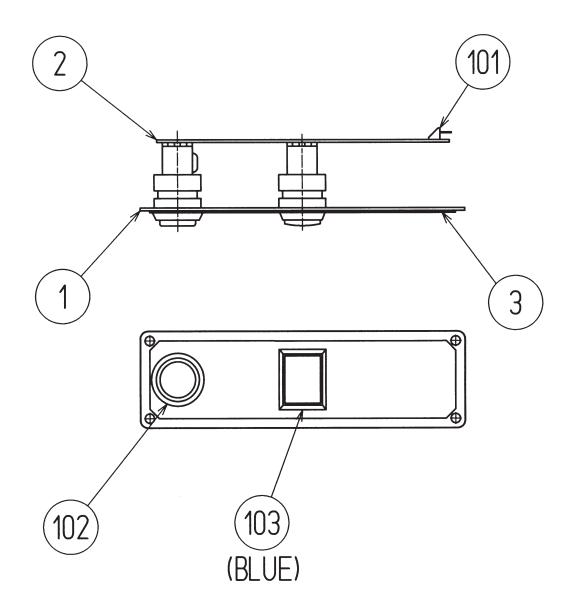
| ITEM NO.   | PART NO.                   | DESCRIPTION                                 | NOTE |
|------------|----------------------------|---|------|
| 1          | PTR-2502                   | HANDLE SHAFT                                |      |
| 2          | PTR-2502                   | STOPPER BLOCK                               |      |
| 3          | PTR-2590                   | ASSY TOP PLATE HANDLE MECHA                 |      |
| 4          | PTR-2505                   | STOPPER RING A                              |      |
| 5          | PTR-2506                   | STOPPER RING B                              |      |
| 6          | PTR-2515                   | MOTOR BASE                                  |      |
| 7          | PTR-2516                   | BEARING BASE                                |      |
| 8          | PTR-2550                   | SENSOR UNIT                                 |      |
| 9          | PTR-2521                   | COVER BRKT                                  |      |
| 11         | PTR-2523                   | COLLAR A                                    |      |
| 12         | PTR-2524                   | COLLAR B                                    |      |
| 13         | PTR-2528                   | PULLEY 60                                   |      |
| 14         | SPG-2504                   | PULLEY 20 S5M                               |      |
| 15         | ASK-3502                   | MOTOR SPACER                                |      |
| 16         | ASK-3503                   | MOTOR COLLAR                                |      |
| 17         | DYN-1270                   | STOPPER KEY                                 |      |
| 18         | SPG-2453                   | KEY 4 X 4 X 40                              |      |
| 20         | SPG-2454                   | MOTOR SHAFT COLLAR                          |      |
| 21         | PTR-2517                   | VOL BRKT                                    |      |
| 22         | PTR-2518                   | GEAR 90 MO75                                |      |
| 23         | PTR-2519                   | GEAR 30 MO75                                |      |
| 24         | PTR-2531                   | STOPPER COLLAR                              |      |
| 25         | PTR-2532-06                | SPACER PLATE06                              |      |
| 26         | PTR-2532-08                | SPACER PLATE08                              |      |
| 27         | PTR-2532-10                | SPACER PLATE10                              |      |
| 28         | PTR-2532-12                | SPACER PLATE12                              |      |
| 101        | 350-5448-01                | SERVO MOTOR 500W NEW                        |      |
| 104        | 601-9173                   | TIMING BELT                                 |      |
| 105        | 100-5112                   | BEARING 17                                  |      |
| 107        | 280-5009-01                | CORD CLAMP 21                               |      |
| 108        | 280-5275-SR10              | CORD CLAMP SR10                             |      |
| 109        | 601-0460                   | PLASTIC TIE BELT 100 MM                     |      |
| 110        | 220-5484                   | VOL CONT B-5K OHM                           |      |
|            | 220-5373                   | VOL CONT B-5K                               |      |
| 111        | 310-5029-F20               | SUMITUBE F F 20MM                           |      |
| 112        | 601-8966                   | GEAR HOLDER                                 |      |
| 113        | 270-5117                   | FERRITE CORE TDK ZCAT3035-1330              |      |
| 201        | 020-000530-0Z              | HEX SKT H CAP SCR BLK 0Z M5 X 30            |      |
| 202        | 000-P00516-W               | M SCR PH W/FS M5 X 16                       |      |
| 203        | 030-000625-S               | HEX BLT W/S M6 X 25                         |      |
| 204        | 060-F00600                 | FLT WSHR M6                                 |      |
| 205        | 000-P00414-W               | M SCR PH W/FS M4 X 14                       |      |
| 207        | 028-C00416-P               | SET SCR CH CUP P M4 X 16                    |      |
| 208        | 065-S020S0-Z               | STP RING BLK OZ S20                         |      |
| 209        | 065-S012S0-Z               | STP RING BLK OZ S12                         |      |
| 210        | 030-000830-S               | HEX BLT W/S M8 X 30                         |      |
| 211<br>213 | 060-F00800<br>028-A00304-P | FLT WSHR M8<br>SET SCR HEX SKT CUP P M3 X 4 |      |
| 213        | 020-AUU304-ľ               | SET SUR HEA SKT UUP P M3 A 4                |      |
| 301        | PTR-60029                  | WIRE HARN HORN MAIN                         |      |
| 302        | PTR-60030                  | WIRE HARN HANDLE                            |      |
|            |                            |   |      |

(D-2/2)

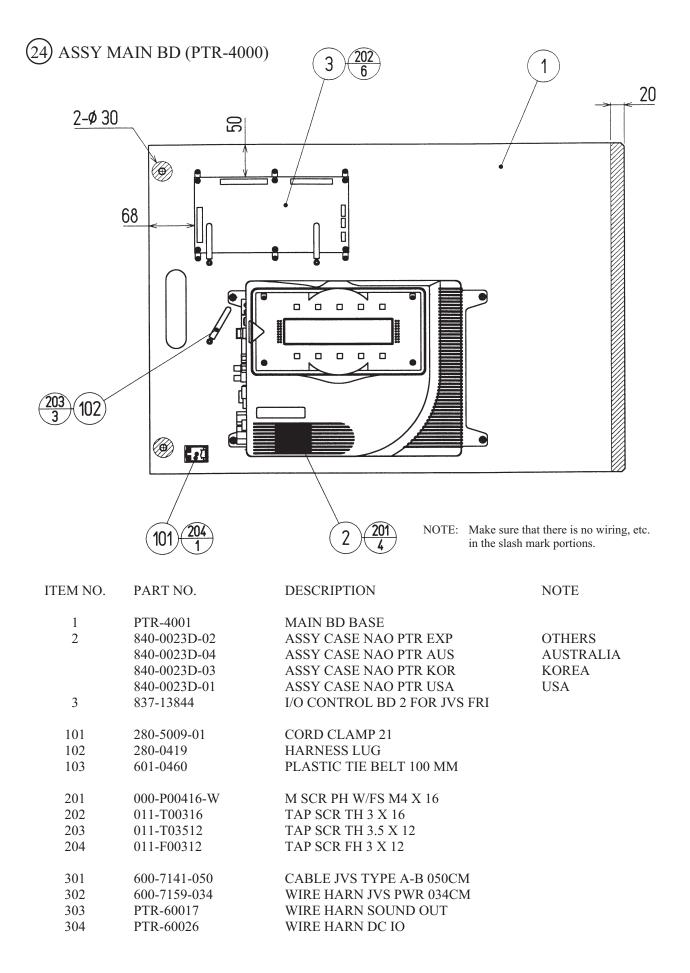
25) SENSOR UNIT (PTR-2550)



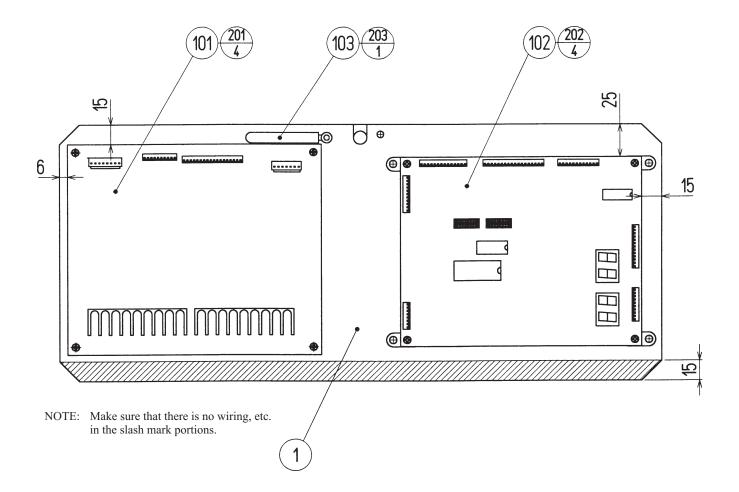
| ITEM NO. | PART NO.      | DESCRIPTION                 | NOTE |
|----------|---------------|-----------------------------|------|
| 1        | PTR-2551      | SENSOR BEKT                 |      |
| 2        | PTR-2552      | GUIDE RING                  |      |
| 101      | 370-5226      | PHOTO SENSOR OMT-01DAMP NEW |      |
| 102      | 280-5275-SR10 | CORD CLAMP SR10             |      |
| 202      | 000-P00312-W  | M SCR PH W/FS M3 X 12       |      |



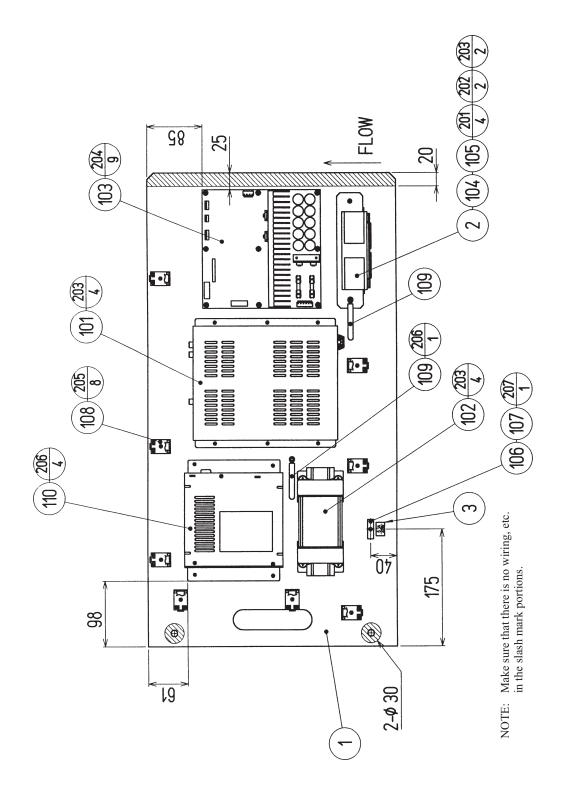
| ITEM NO.   | PART NO.                  | DESCRIPTION                             | NOTE |
|------------|---------------------------|---|------|
| 1<br>2     | APC-2151X<br>171-6478B    | VR BUTTON BRKT<br>PC BD LIGHTING SWX5   |      |
| 3          | PTR-2601                  | STICKER VR BUTTON                       |      |
| 101        | 212 5205 12               | CONNUNT NO 12D DTA                      |      |
| 101<br>102 | 212-5205-12<br>509-5560-Y | CONN JST M 12P RTA<br>PB SW W/L 6V 1L Y |      |
| 103        | 509-5561-S                | PB SW W/L 6V 5L S                       |      |



#### (25) ASSY CONTROL BD (PTR-4100)



| PART NO.     | DESCRIPTION  | NOTE   |
|--------------|--|--|
| PTR-4101     | CONTROL BD BASE  |  |
| 838-12912-01 | SERVO MOTOR DRIVE BD NEW   |  |
| 838-13992    | DRIVE BD PTR   |  |
| 280-0419     | HARNESS LUG  |  |
|              |  |  |
| 011-P00325   | TAP SCR PH 3 X 25  |  |
| 011-T03516   | TAP SCR TH 3.5 X 16  |  |
| 011-T03512   | TAP SCR TH 3.5 X 12  |  |
|              |  |  |
| PTR-60035    | WIRE HARN AC EXT   |  |
| PTR-60036    | WIRE HARN DC EXT   |  |
|              | PTR-4101<br>838-12912-01<br>838-13992<br>280-0419<br>011-P00325<br>011-T03516<br>011-T03512<br>PTR-60035 | PTR-4101       CONTROL BD BASE         838-12912-01       SERVO MOTOR DRIVE BD NEW         838-13992       DRIVE BD PTR         280-0419       HARNESS LUG         011-P00325       TAP SCR PH 3 X 25         011-T03516       TAP SCR TH 3.5 X 16         011-T03512       TAP SCR TH 3.5 X 12         PTR-60035       WIRE HARN AC EXT |

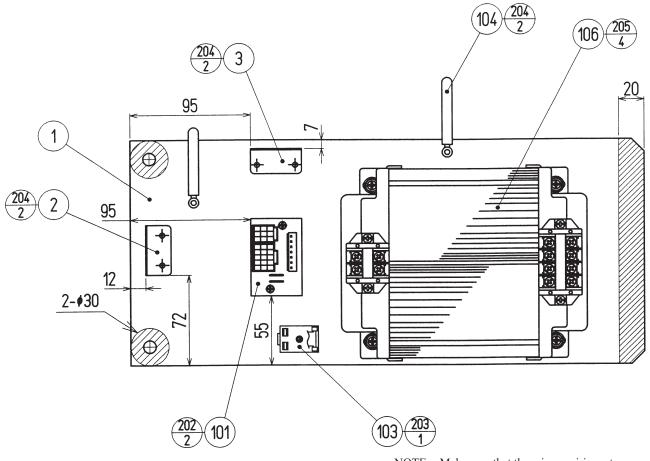


# (26) ASSY AMP BD (PTR-4200)

| ITEM NO. | PART NO.        | DESCRIPTION                   | NOTE |
|----------|-----------------|-------------------------------|------|
| 1        | PTR-4201        | AMP BD BASE                   |      |
| 2        | DRT-4502        | FAN MOTOR BRKT                |      |
| 3        | 421-7914-250630 | STICKER AC 250V 6.3A          |      |
| 101      | 601-10369       | STEREO PWR AMP 47             |      |
| 102      | 560-5419-V      | XFMR 100V 23V9.6A X 2         |      |
| 103      | 838-13723       | WOOFER AMP 50W X 2            |      |
| 104      | 260-0011-02     | AXIAL FLOW FAN AC100V 50-60HZ |      |
| 105      | 601-8543        | FAN GUARD                     |      |
| 106      | 514-5086-6300   | FUSE S.B 6300MA 250V HBC CE   |      |
| 107      | 514-5084        | FUSE HOLDER F-60B W/F-60      |      |
| 108      | 280-5009-01     | CORD CLAMP 21                 |      |
| 109      | 280-0419        | HARNESS LUG                   |      |
| 110      | 400-5397-01     | SW REGU FOR JVS VA            |      |
| 111      | 601-0460        | PLASTIC TIE BELT 100 MM       |      |
| 112      | 310-5029-D20    | SUMITUBE F D 20 MM            |      |
| 201      | 000-P00312-W    | M SCR PH W/FS M3 X 12         |      |
| 202      | 050-F00300      | FLG NUT M3                    |      |
| 203      | 000-P00416-W    | M SCR PH W/FS M4 X 16         |      |
| 204      | 011-P00325      | TAP SCR PH 3 X 25             |      |
| 205      | 011-F00312      | TAP SCR FH 3 X 12             |      |
| 206      | 011-T03512      | TAP SCR TH 3.5 X 12           |      |
| 207      | 011-F00312      | TAP SCR #1 FH 3 X 12          |      |
| 301      | PTR-60010       | WIRE HARN WOOFER 1            |      |
| 302      | PTR-60011       | WIRE HARN SPEAKER 1           |      |
| 303      | PTR-60012       | WIRE HARN VOLUME 1            |      |
| 304      | PTR-60013       | WIRE HARN AMP                 |      |
| 305      | PTR-60014       | WIRE HARN SOUND MIX           |      |
| 306      | PTR-60015       | WIRE HARN AC AMP              |      |
| 307      | PTR-60016       | WIRE HARN SOUND IN            |      |

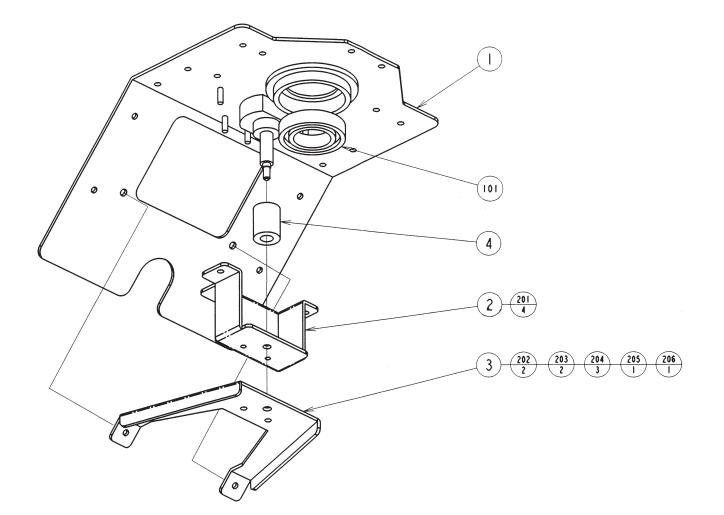
(D-2/2)

#### (27) ASSY PWR SPLY (PTR-4300)



NOTE: Make sure that there is no wiring, etc. in the slash mark portions.

| ITEM NO. | PART NO.     | DESCRIPTION                  | NOTE                    |
|----------|--------------|------------------------------|-------------------------|
| 1        | PTR-4301     | PWR SPLY BASE                |                         |
| 2        | PTR-4302     | CONN BRKT VL3P               |                         |
| 3        | PTR-4303     | CONN BRKT UP18P              |                         |
| 101      | 838-11856-UL | CONNECT BD UL                |                         |
| 103      | 280-5009-01  | CORD CLAMP 21                |                         |
| 104      | 280-0419     | HARNESS LUG                  |                         |
| 105      | 601-0460     | PLASTIC TIE BELT 100 MM      |                         |
| 106      | 560-5384     | XFMR 100-120V 100V 10A WB    | AC 110 ~ 120V AREA      |
|          | 560-5377     | PWR XFMR 200-240V 100V10A CE | AC 220 $\sim$ 240V AREA |
| 202      | 011-P00325   | TAP SCR PH 3 X 25            |                         |
| 203      | 011-F00310   | TAP SCR FH 3 X 10            |                         |
| 204      | 011-T03512   | TAP SCR TH 3.5 X 12          |                         |
| 205      | 000-P00616-W | M SCR PH W/FS M6 X 16        |                         |
| 301      | PTR-60002    | WIRE HARN AC 1               |                         |
| 302      | PTR-60003    | WIRE HARN AC 2               |                         |
| 303      | PTR-60004    | WIRE HARN AC 3               |                         |



| ITEM NO. | PART NO.             | DESCRIPTION                             | NOTE |
|----------|----------------------|---|------|
| 1<br>2   | PTR-2533<br>PTR-2534 | BASE HANDLE MECHA V2<br>STOPPER BRKT V2 |      |
| 3        | PTR-2535             | ADDITIONAL STOPPER BRKT                 |      |
| 4        | SPG-2109             | STOPPER RUBBER                          |      |
| 101      | 100-5052             | BEARING 6007ZZ                          |      |
| 201      | 050-F00500           | FLG NUT M5                              |      |
| 202      | 000-P00516-W         | M SCR PH W/FS M5 X 16                   |      |
| 203      | 030-000616-S         | HEX BLT W/S M6 X 16                     |      |
| 204      | 060-F00600           | FLT WSHR M6                             |      |
| 205      | 050-H00600           | HEX NUT M6                              |      |
| 206      | 060-S00600           | SPR WSHR M6                             |      |

#### **21. WIRE COLOR CODE TABLE**

THE WIRE COLOR CODE is as follow:

- A PINK
- B SKY BLUE
- C BROWN
- D PURPLE
- E LIGHT GREEN

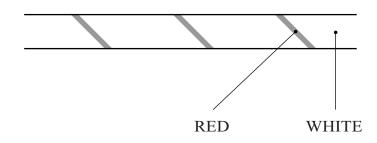
Wires other than those of any of the above 5 single colors will be displayed by 2 alphanumeric characters.

1 RED 2 BLUE 3 YELLOW 4 GREEN 5 WHITE 7 ORANGE 8 **BLACK** 9 GRAY

<Example>

If the right-hand side numeral of the code is 0, then the wire will be of a single color shown by the left-hand side numeral (see the above).

Note 1: If the right-hand side alphanumeric is not 0, that particular wire has a spiral color code. The left-hand side character shows the base color and the right-hand side one, the spiral color.



51 ..... WHITE / RED

Note 2: The character following the wire color code indicates the size of the wire.

| U:    | AWG16 |
|-------|-------|
| K:    | AWG18 |
| L:    | AWG20 |
| None: | AWG22 |

#### Warranty

Your new Sega Product is covered for a period of 90 days from the date of shipment. This certifies that the Printed Circuit Boards, Power Supplies and Monitor are to be free of defects in workmanship or materials under normal operating conditions. This also certifies that all Interactive Control Assemblies are to be free from defects in workmanship and materials under normal operating conditions. No other product in this machine is hereby covered.

Sellers sole liability in the event a warranted part described above fails shall be, at its option, to replace or repair the defective part during the warranty period. For Warranty claims, contact your Sega Distributor.

Should the Seller determine, by inspection that the product was caused by Accident, Misuse, Neglect, Alteration, Improper Repair, Installation or Testing, the warranty offered will be null and void.

Under no circumstances is the Seller responsible for any loss of profits, loss of use, or other damages.

This shall be the exclusive written Warranty of the original purchaser expressed in lieu of all other warranties expressed or implied. Under no circumstance shall it extend beyond the period of time listed above.



SEGA ENTERPRISES, INC. (USA)

45133 Industrial Drive Fremont, CA 94538 (650) 632-7580 phone (650) 632-7594 fax