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DELUXE VERSION OWNER'S MANUAL



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

BEFORE USING THE PRODUCT, BE SURE TO READ THE FOLLOWING:	
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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 Á (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.

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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.

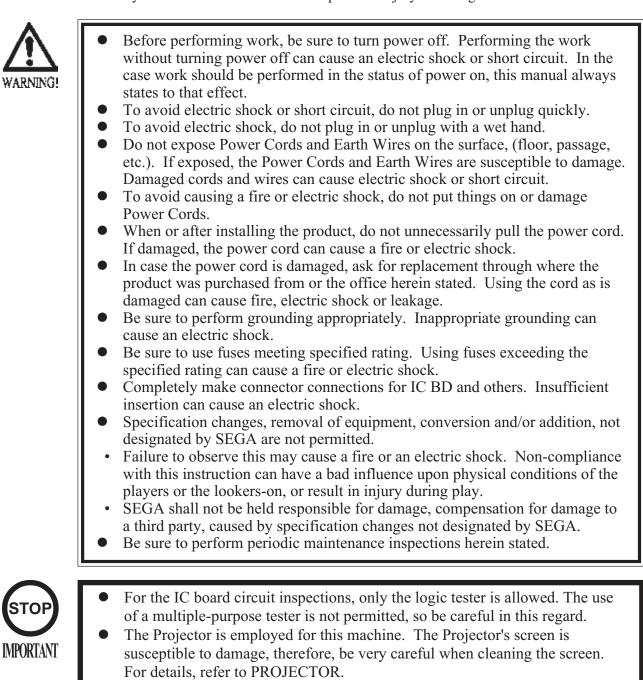
Those who have technical expertise equivalent to that of technical high school graduates as regards electricity, electronics and or mechanical engineering, and daily take part in the servicing & control and repair of amusement equipment.

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.

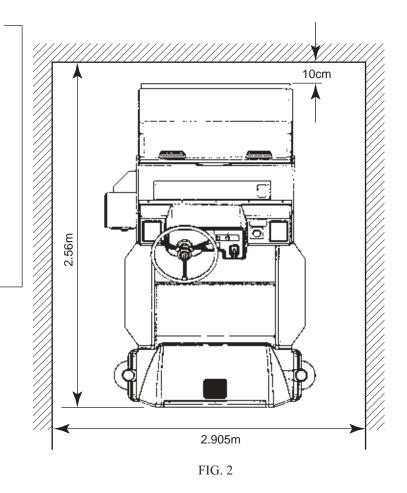


- For the operation of this machine, secure a minimum area of 2.905m (W) X 2.56m (D). In order to prevent injury resulting from the falling down accident during game play, be sure to secure the minimum area for operation.
- Be sure to provide sufficient space so as to allow this product's ventilation 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

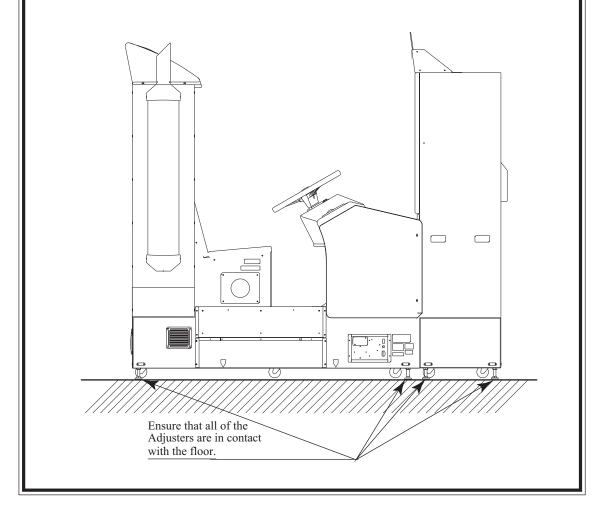
PRECAUTIONS TO BE HEEDED BEFORE STARTING THE OPERATION

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.



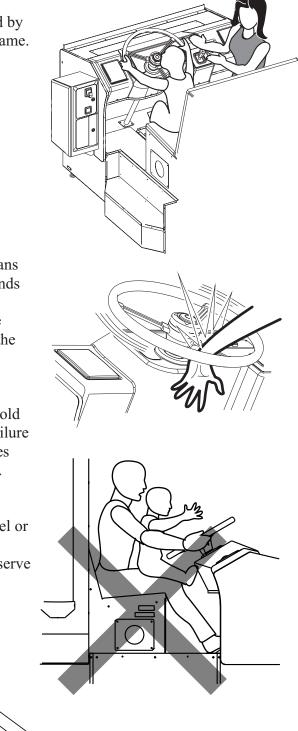
- To avoid injury and accidents, those who fall under the following categories are not allowed to play the game.
 - Those who need assistance such as the use of an apparatus when walking.
 - Those who have high blood pressure or a heart problem.
 - Those who have experienced muscle convulsion or loss 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.



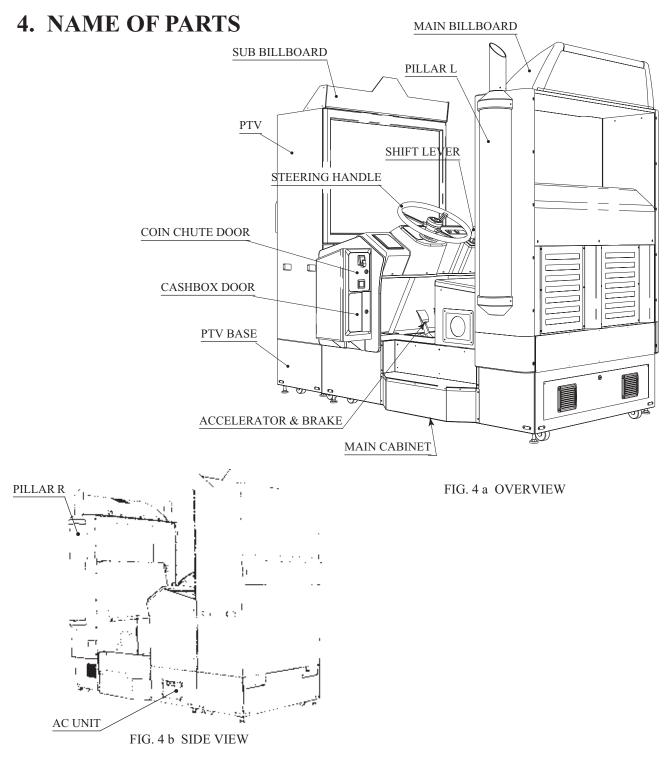


TABLE 4

	Width	Х	Length	X Height	Weight
PTV	1,140 mm	Х	554 mm	X 1,670 mm	110 kg
PTV BASE	1,165 mm	Х	644 mm	X 387 mm	24 kg
MAIN CABINET	1,580 mm	Х	1,880 mm	X 1,410 mm	291 kg
MAIN BILLBOARD	1,252 mm	Х	492 mm	X 330 mm	16 kg
SUB BILLBOARD	1,145 mm	Х	335 mm	X 260 mm	9 kg
PILLAR R	170 mm	Х	400 mm	X 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)

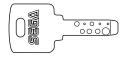
If Part No. has no description, the Number has not been registered or can not be registered. Such a part may not

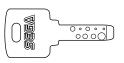
be obtainable even if the customer desires to purchase it. Therefore, ensure that the part is in safekeeping with you.

KEY MASTER 220-5576 (2) For opening/closing the doors

KEY (2)

For the CASHBOX DOOR



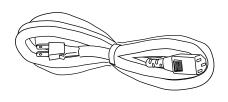


The Keys are inside the Coin Chute Door at the time of shipment from the factory.

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

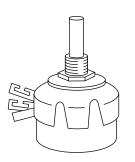
AC Cable (Power Cord) 600-6729 (1) AC 110V AREA 600-6695 (1) AC 120V AREA 600-6618 (1) AC 220 ~ 240V AREA Used for installation, see 5 of Section 6.

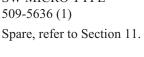
CORD CLAMP 280-5009-01 (1) Used for securing the power_cord. see 5 of Section 6.



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

Spare, see Section 10, 12.



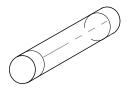


SW MICRO TYPE

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

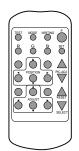


FUSE 6.3A 125V 514-5086-6300 (1) Spare, see Section 17.



TOSHIBA

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



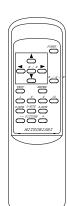
One of the above 2 types of Remote Controllers is used for the Projector.

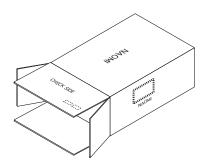
The Remote Controller is attached to the Projector at the time of shipment.

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

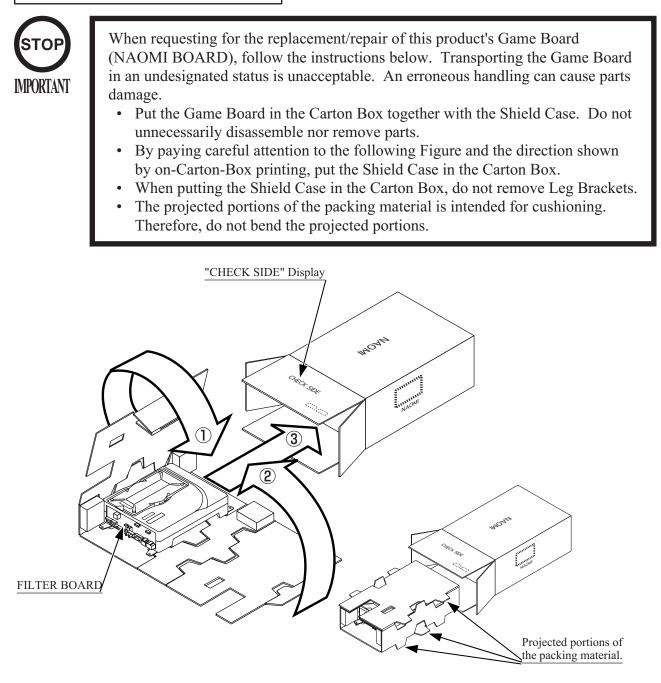


Remote Controller used for adjustment of the projector. See Section 14. 200-5532(1)





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



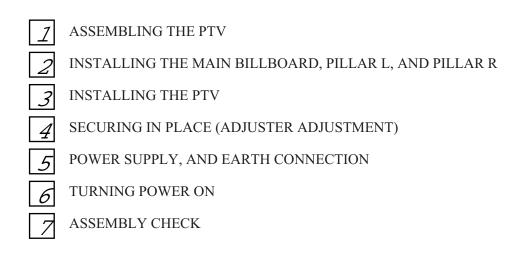
- Perform assembly work by following the procedure herein stated. Failing to comply with the instructions can cause electric shock hazard.
- Perform assembling as per this manual. Since this is a complex machine, erroneous assembling can cause an electric shock, machine damage and or not functioning 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.



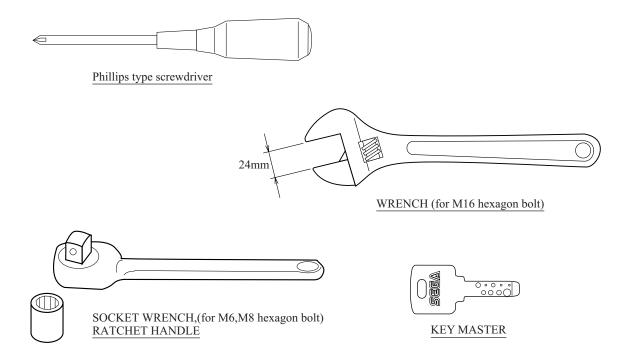
• When handling plastic parts, use care. Do not give a shock or apply excessive load to the fluorescent lamps and plastic parts. Failure to observe this can cause parts damage, resulting in injury due to fragments, cracks and broken pieces.

- 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.

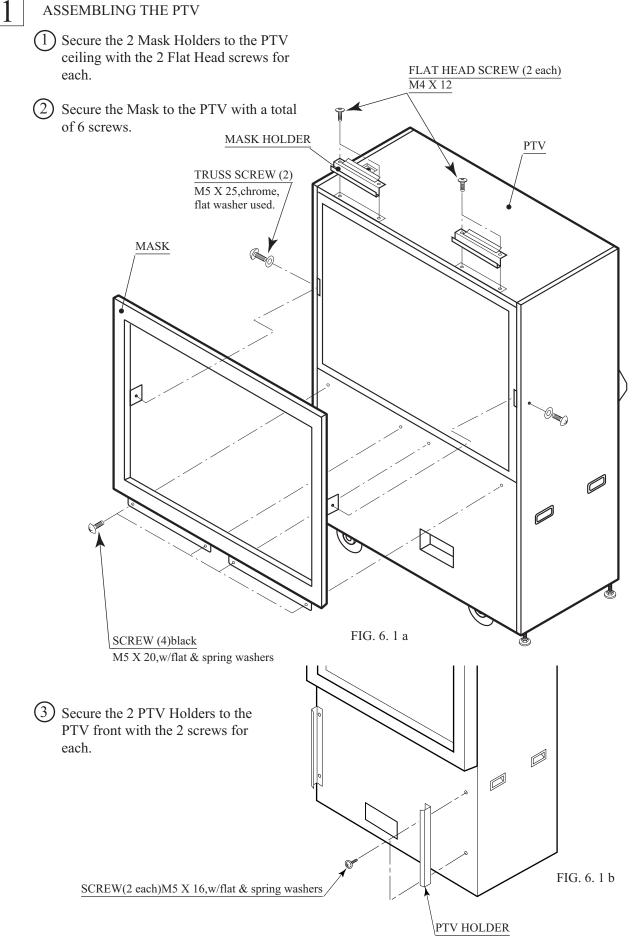
When carrying out the assembly work, follow the procedure in the following 7-item sequence:



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.





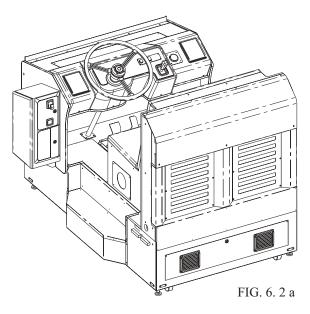


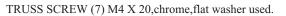
INSTALLING THE MAIN BILLBOARD, PILLAR L, AND PILLAR R

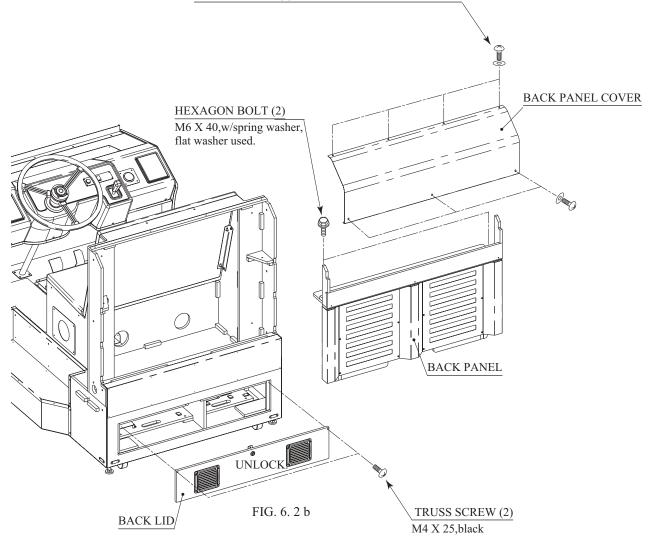
1 Take out the 7 truss screws to remove the BACK PANEL COVER from the back of main cabinet.

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.

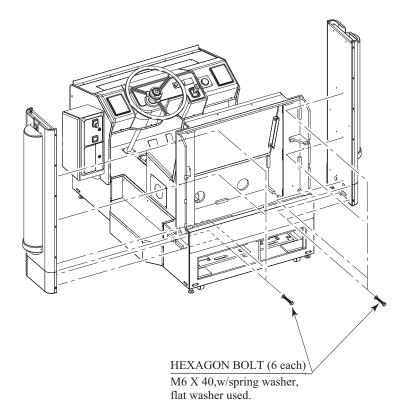


FIG. 6. 2 c

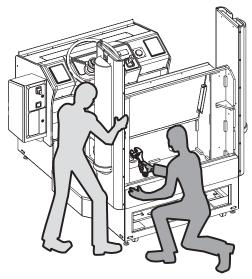
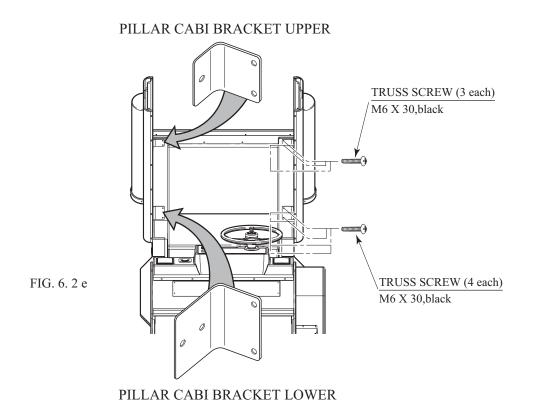
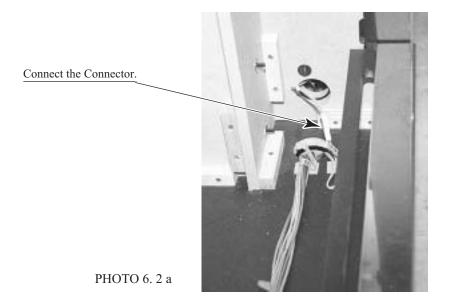


FIG. 6. 2 d

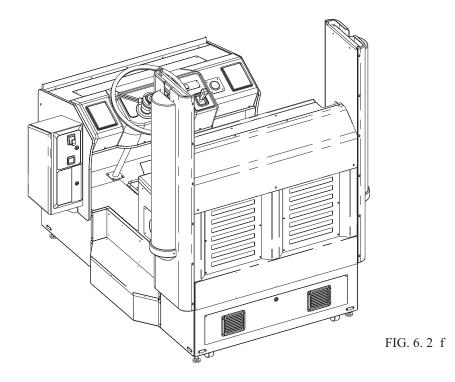
(5) To secure the PILLAR, install the L-shaped Bracket from the seat side. Secure the PILLAR CABI BRACKET UPPER with the 3 truss screws and the PILLAR CABI BRACKET LOWER with the 4 truss screws. Perform this on the both sides.



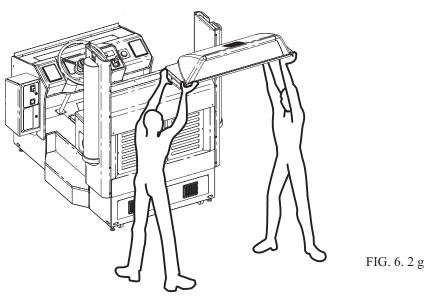
6 Connect the PILLAR R's wire connector to the main cabinet's connector.



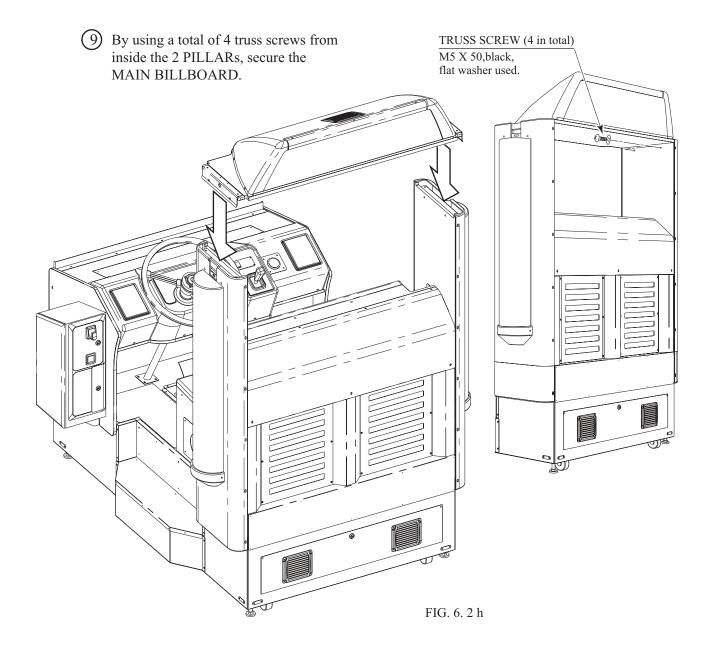
(7) Install the BACK PANEL, the BACK PANEL COVER, and the BACK LID to the main cabinet back.

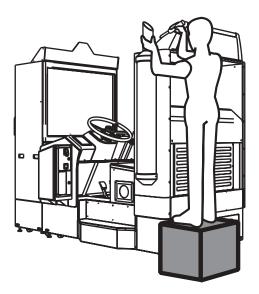


8 Lift the MAIN BILLBOARD onto the 2 PILLARs by 2 persons. Use care so as not to pinch hands or damage wire.



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.

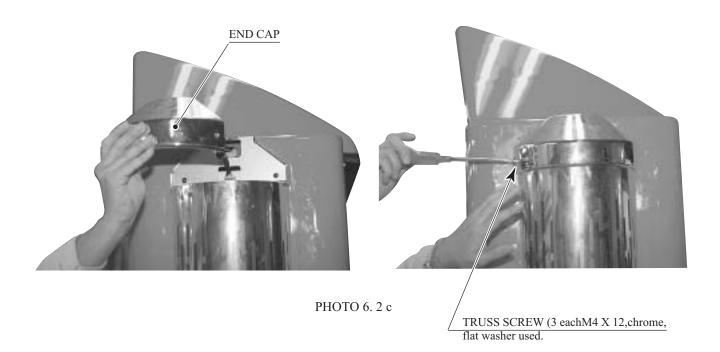
(11) Connect the wire connector of the MAIN BILLBOARD to the connector of the PILLAR R.

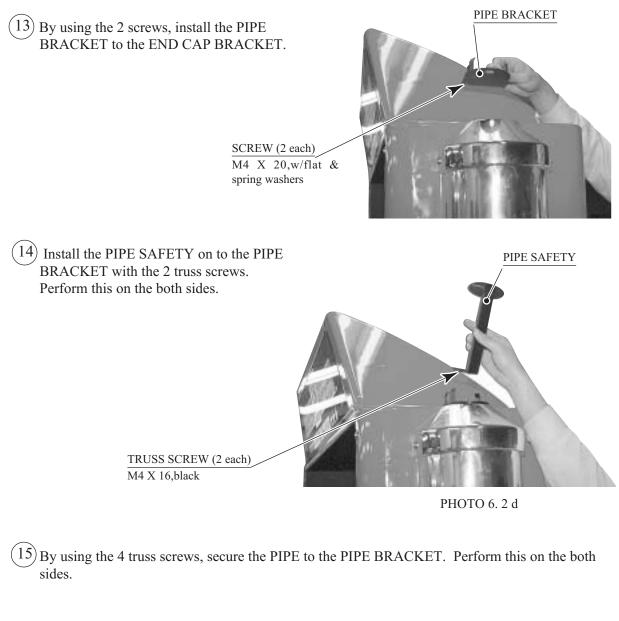






(12) By using the 3 truss screws, install the END CAP to the END CAP BRACKET. Perform this on the both sides.





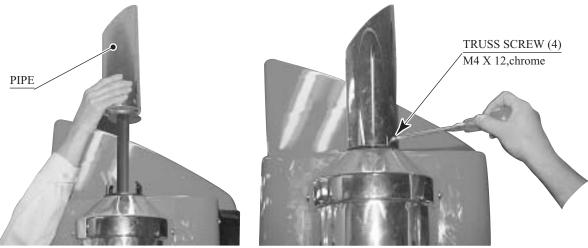
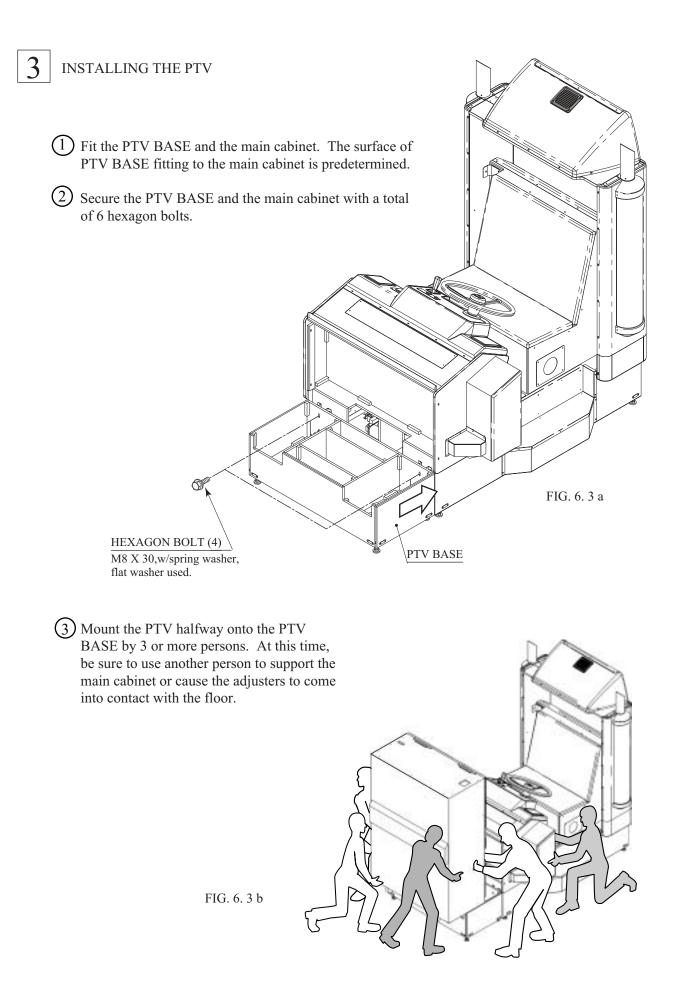
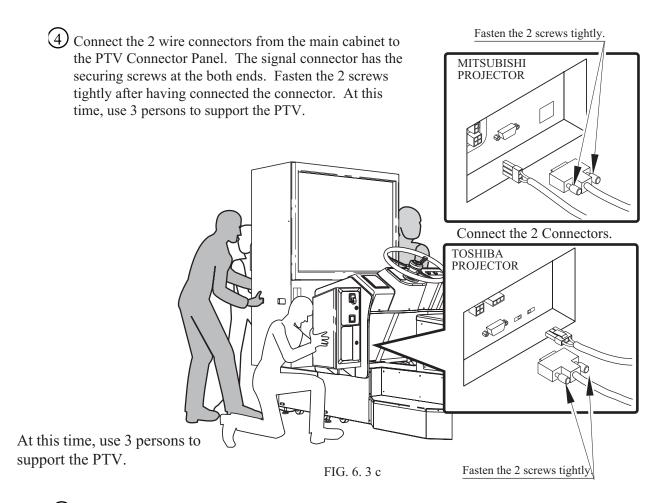


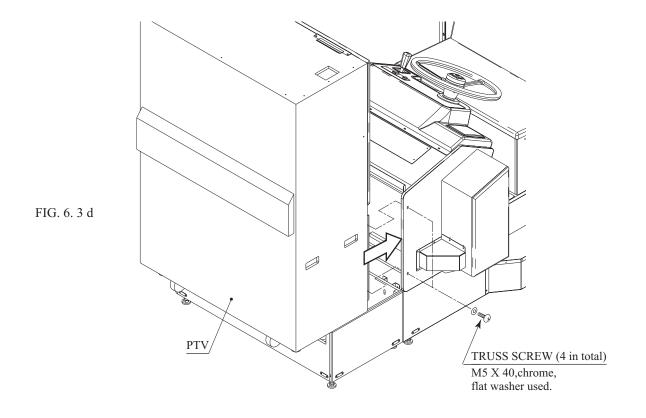
PHOTO 6.2 e



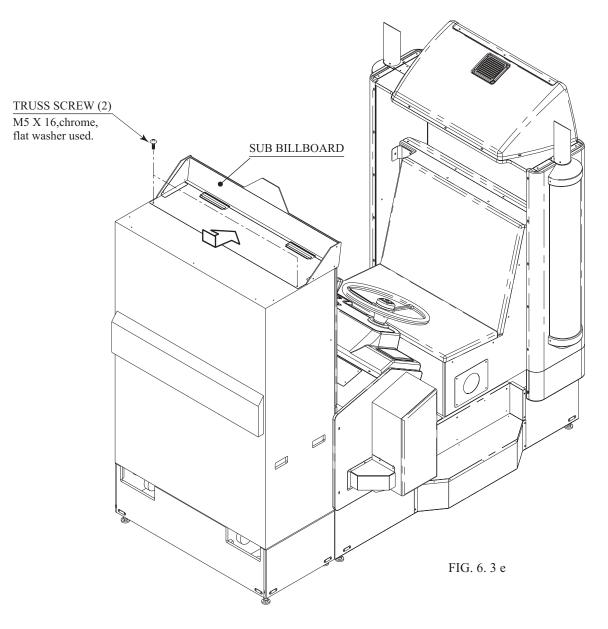


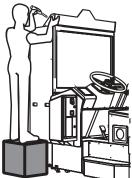
5 Fit the PTV to the main cabinet. Use care so as not to damage wiring at this time.

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.

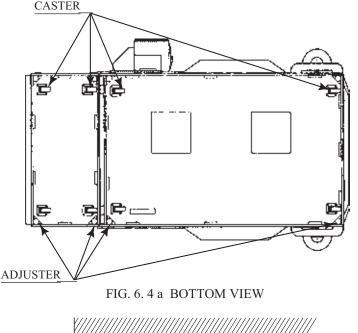


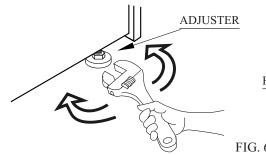


Make sure that all of the adjusters are in contact with the floor. If they are not, the cabinet can move and cause an accident.

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).





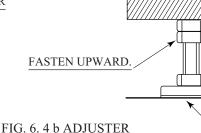
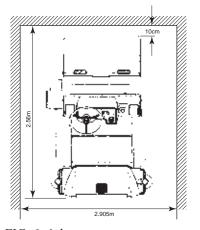




FIG. 6. 4 c Refer to this Fig. (Scale:1/100) for the layout of the place of installation.



ADJUSTER

CASTER

Approx.5mm

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

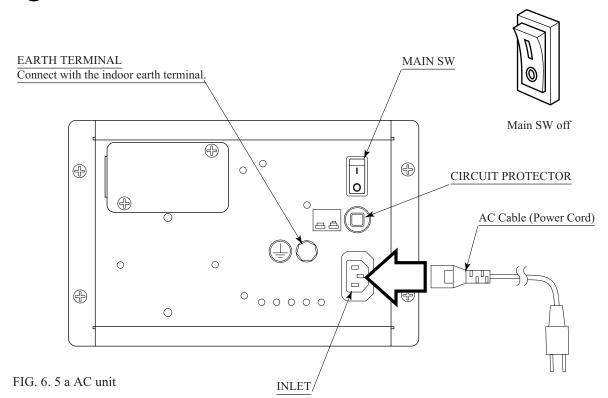


POWER SUPPLY, AND EARTH CONNECTION



- 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.

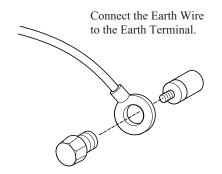


FIG. 6. 5 b Earth Wire Connection

(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.

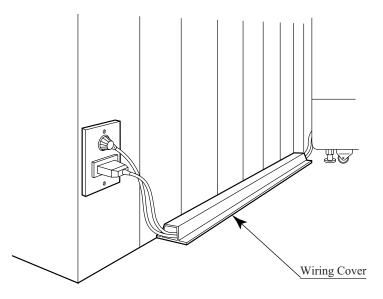
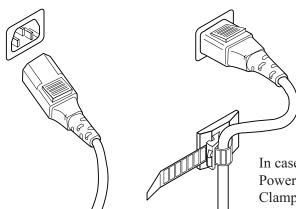


FIG. 6. 5 c Connecting Power Cord and Earth Wire



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).

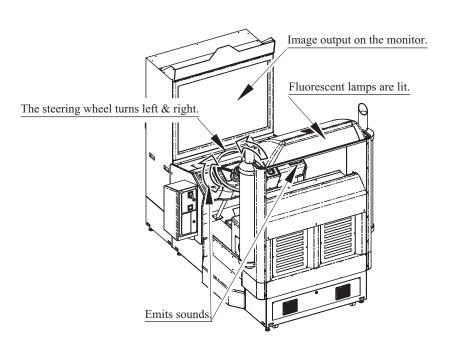
HOW TO USE THE CORD CLAMP

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 made, perform the following test:

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

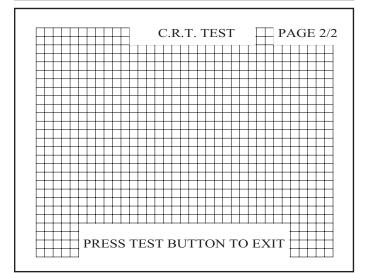
RED

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 TEST					
	111011201					
	COIN CHUTE #1 COIN CHUTE #2 SERVICE TEST START VIEW HORN SHIFT [L]	OFF OFF OFF OFF OFF OFF OFF				
	SHIFT [H] SHIFT [R] HANDLE ACCEL BRAKE	OFF OFF XXH XXH XXH				
PRESS TEST + SERVICE BUTTON TO EXIT						

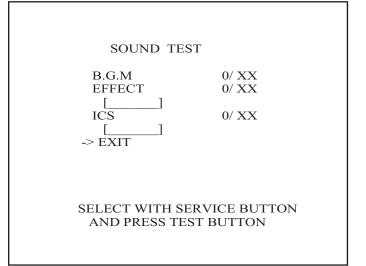
(4)OUTPUT TEST

OUTPUT TEST				
START LAMP	OFF			
VIEW LAMP	OFF			
HORN LAMP	OFF			
ROLL LEFT	OFF			
ROLL RIGHT	OFF			
->EXIT				
SELECT WITH SERV	/ICE BUTTON			
AND PRESS TEST BUTTON				

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.

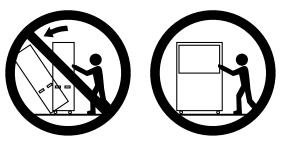
Failure to observe this could cause falling down and injury resulting from falling down.



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.

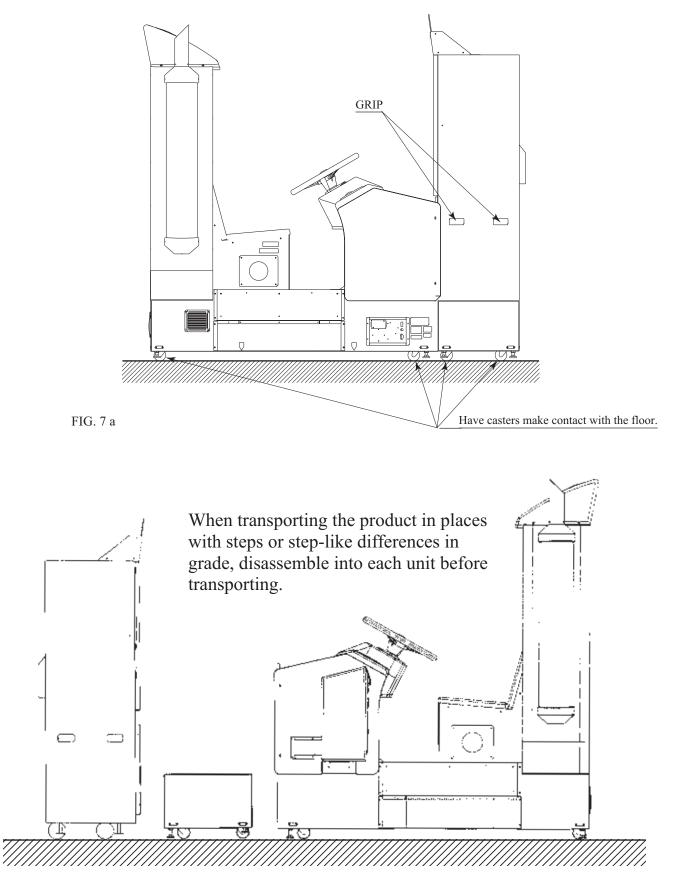
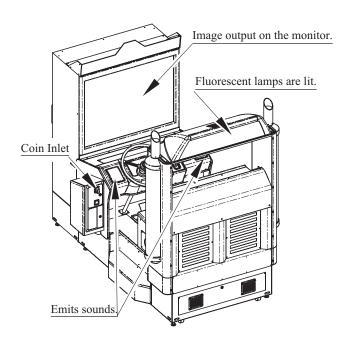


FIG. 7 b

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

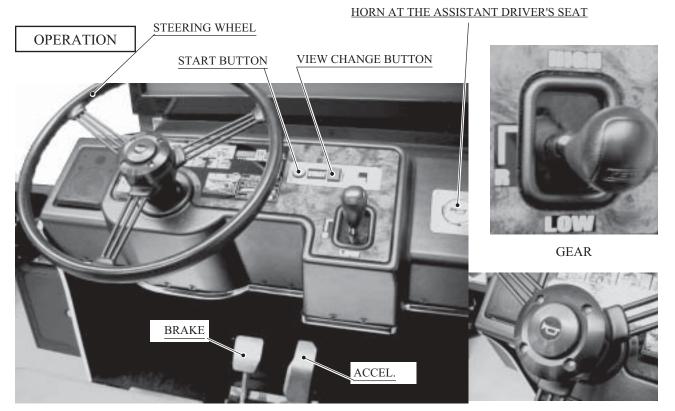
- This is a single, driving game in which the player competes with rivals by driving a Trailer Truck to cross America.
- When coins are inserted to gain credits, the START button starts flashing. Press the START button to proceed to the SELECTOR mode where you can select your truck and trailer. The game 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.

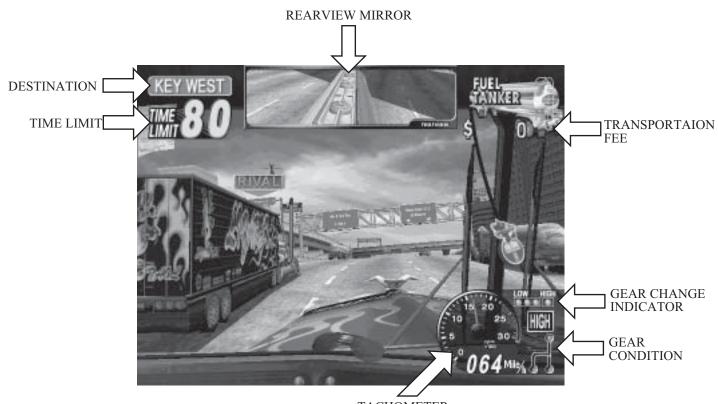


NAME ENTRY

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.

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

TABLE 9EXPLANATION OF TEST MODE

S E R V I C E MANUAL

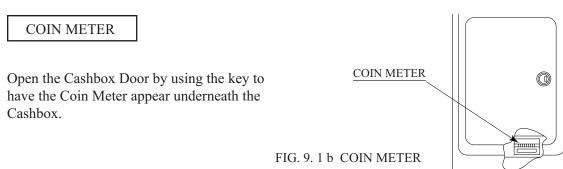
⁹⁻³G

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



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

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9-3 GAME TEST MODE

A. GAME TEST MODE MENU (MAIN MENU)

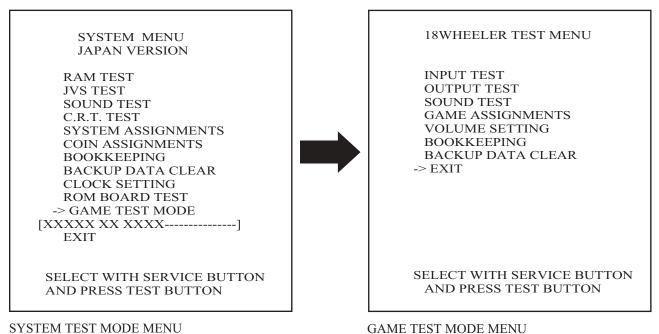


FIG. 9. 3 a MENU MODE

- 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 COIN CHUTE #2 SERVICE TEST START VIEW HORN SHIFT [L] SHIFT [H] SHIFT [R] HANDLE ACCEL BRAKE	OFF OFF OFF OFF OFF OFF OFF OFF XXH XXH 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

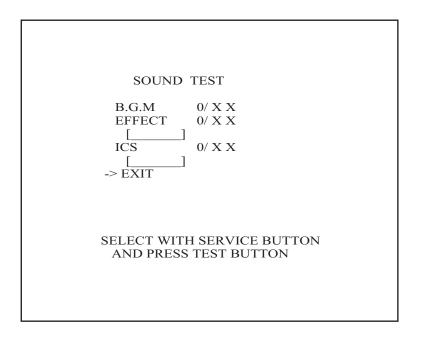
Selecting the OUTPUT TEST displays the following screen on the monitor. The condition of each lamp and motor can be checked.

OUTPUT TEST	
START LAMP VIEW LAMP HORN LAMP ROLL LEFT ROLL RIGHT ->EXIT	OFF OFF OFF OFF
SELECT WITH SERV 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] CHECK POINT TIME [VERY EASY] MOTOR POWER [LIGHT]	
DEFAULT SETTING	
-> EXIT	
SELECT WITH SERVICE BUTTON AND PRESS TEST BUTTON	

•	START TIME	:	Time limit given to the player at the beginning of the stage can be set. Select from among VERY EASY, EASY, NORMAL, 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

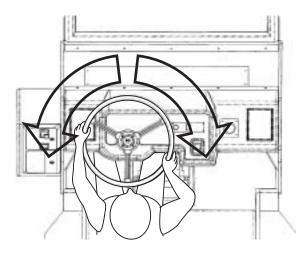
Selecting the VOLUME SETTING displays the following screen on the monitor. The volume detecting the steering wheel operation can manually be set. The value can be stored when exiting from the item.

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

SETTING THE STEERING WHEEL VOLUME

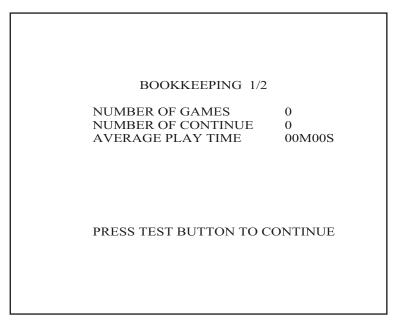
- (1) Press the SERVICE button to bring the arrow to SET CENTER.
- 2) "SET CENTER [LOCK]" display changes to "SET CENTER [SET]."
- 3) Bring the steering wheel to the centering position manually.
- (4) Press the TEST button. The Volume value obtained at this time is stored as the steering wheel's centering 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

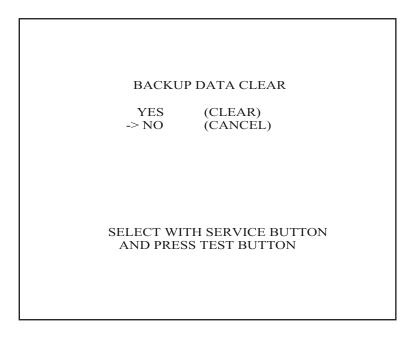
BOOKKEEPING 2/2 TIME HISTOGRAM 00M00S - 00M29S 0 00M30S - 00M59S 0 01M00S - 01M29S 0 01M30S - 01M59S 0 02M00S - 02M29S 0 02M30S - 02M59S 0 03M00S - 03M29S 0 03M30S - 03M59S 0 03M30S - 03M59S 0 04M00S - 04M29S 0 05M00S - 05M29S 0 05M30S - 05M59S 0 05M30S - 06M29S 0 06M30S - 06M59S 0 0CVER 07M00S 0	
00M00S - 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 0CVER 07M00S 0	BOOKKEEPING 2/2
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06M30S - 06M59S 0 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.

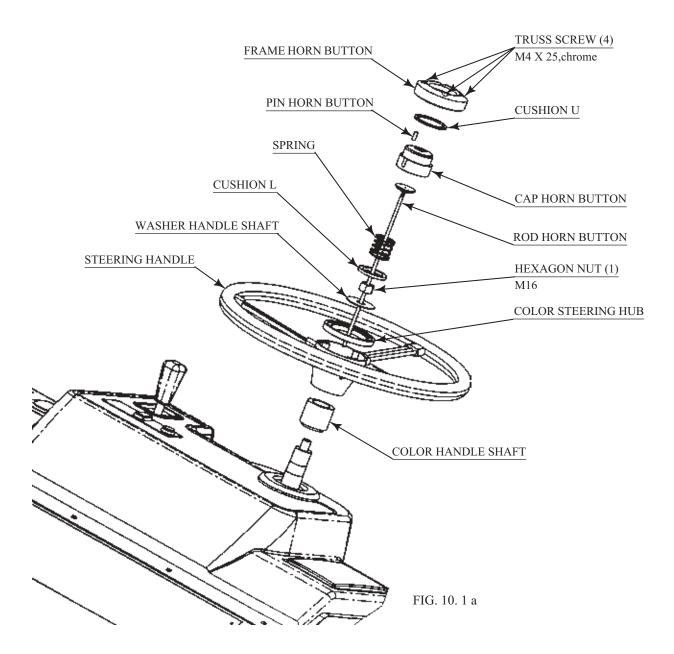
10-1 REMOVING THE HANDLE MECHA

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.

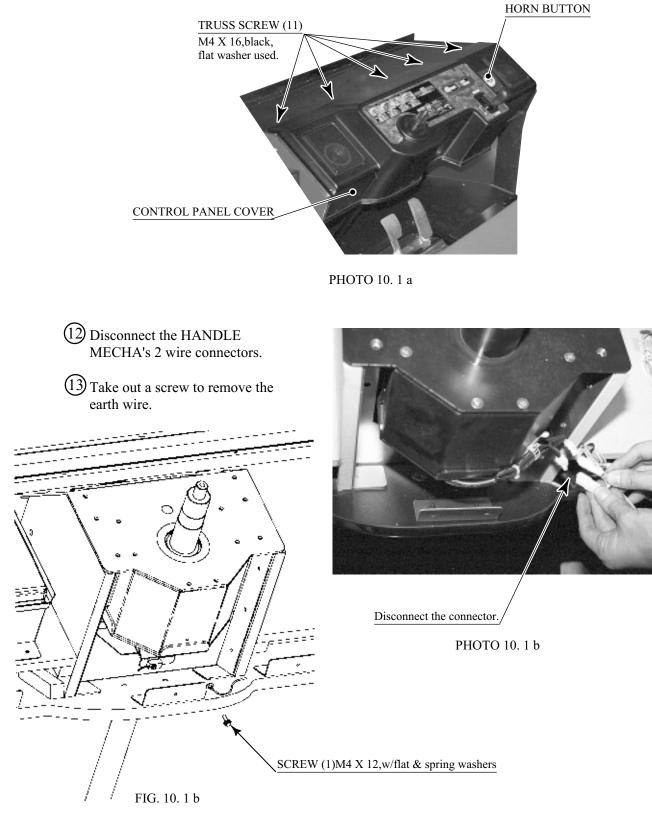
- Take out the 4 truss screws at the center of the steering wheel to remove the FRAME HORN BUTTON and the CAP HORN BUTTON. A small part (PIN HORN BUTTON) is attached to the CAP HORN BUTTON. Be sure to keep it.
- (3) Pull out the ROD HORN BUTTON.
- 4 Remove the SPRING and the CUSHION L.
- (5) Take out 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.



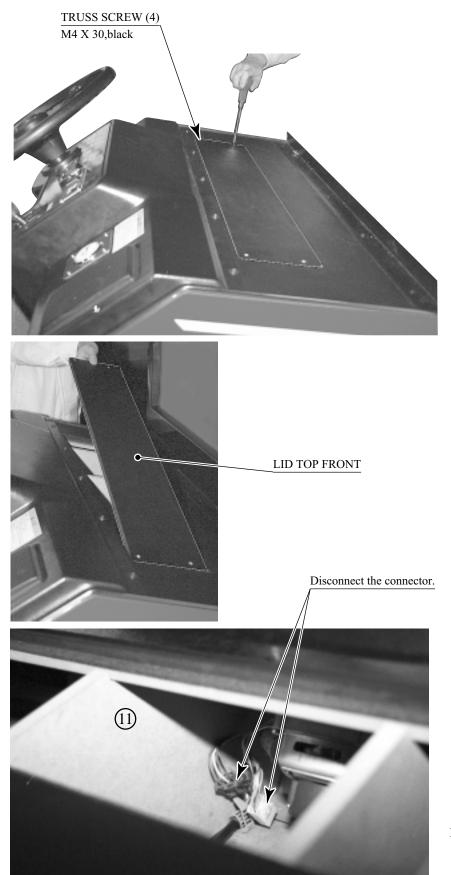
9 Take out the 4 screws, disconnect a connector, and remove the HORN BUTTON at the assistant driver's seat. (See sec. 15)

(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.

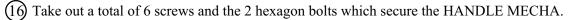
(11) Disconnect the 2 connectors inside the CONTROL PANEL COVER, and remove the CONTROL PANEL COVER.

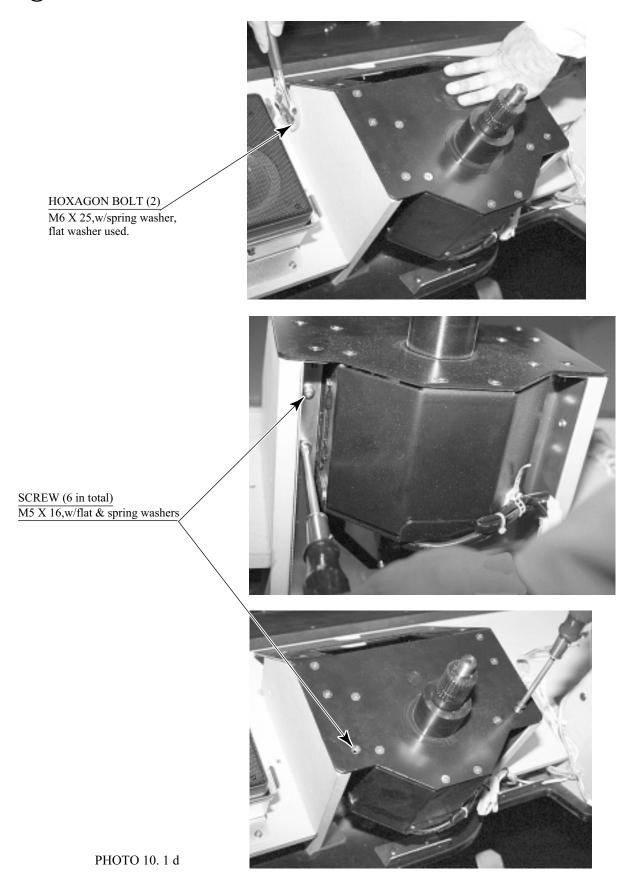


(15) Disconnect the 2 wire connectors of the motor inside the LID TOP FRONT.

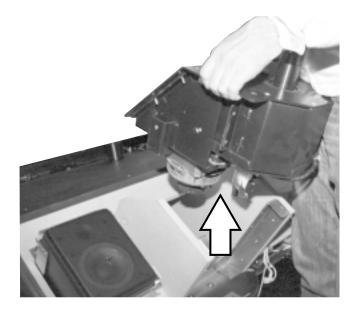


РНОТО 10. 1 с





(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.

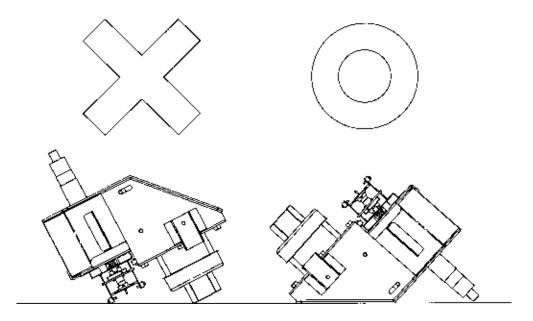


FIG. 10. 1 c

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.

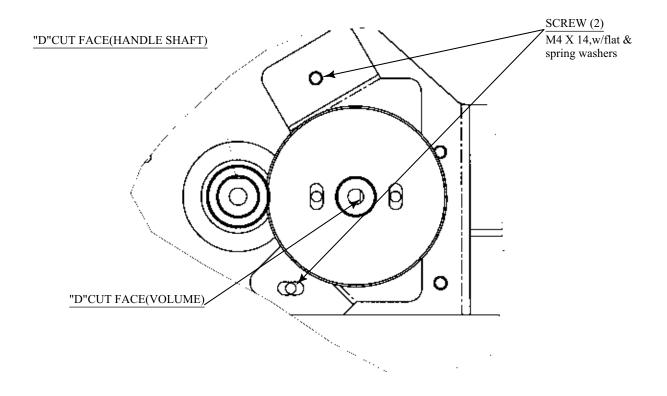
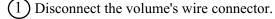


FIG. 10. 2 a

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.

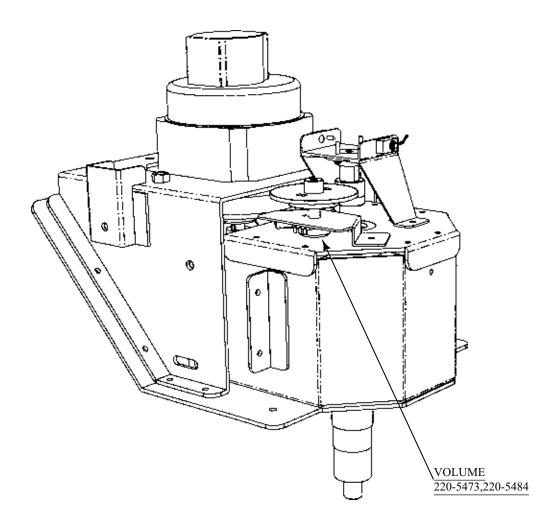


FIG. 10. 2 b

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.

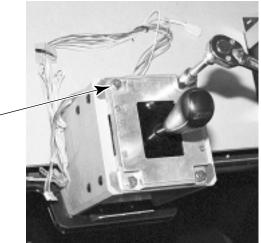
If the Shift Lever operation is not satisfactory, remove the Shift Lever in the following procedure and replace the microswitch.

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.

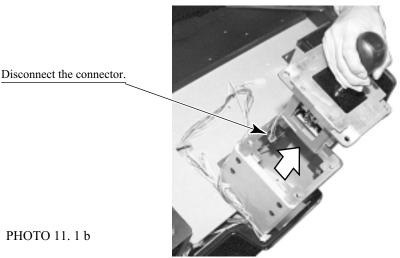
HEXAGON BOLT (4) M8 X 20,w/spring washer



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

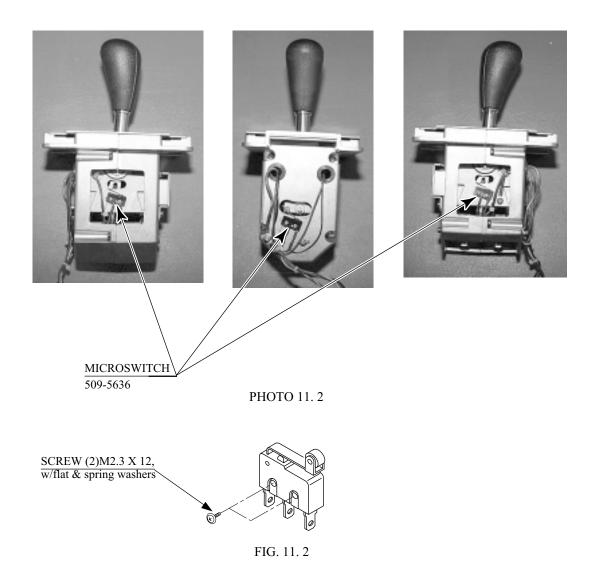
(4) Disconnect the 2 connectors.

PHOTO 11.1 a



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.

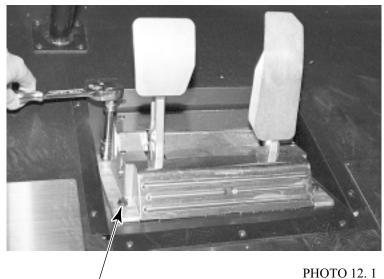
If Accel. and Brake operation is not satisfactory, adjustment of volume installation position or volume replacement is needed. Also, be sure to apply greasing to the gear mesh portion once every 3 months.

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.

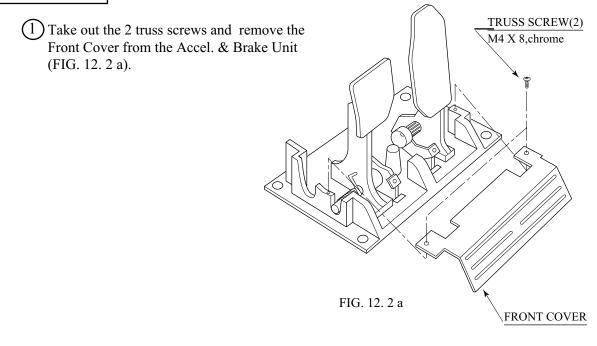


HEXAGON BOLT (4) M6 X 25,black,w/spring washer

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.

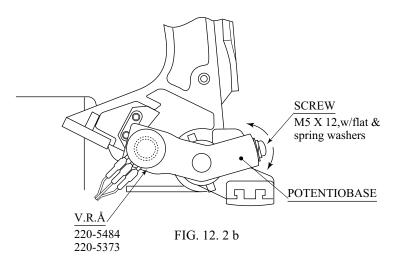
ADJUSTMENT



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

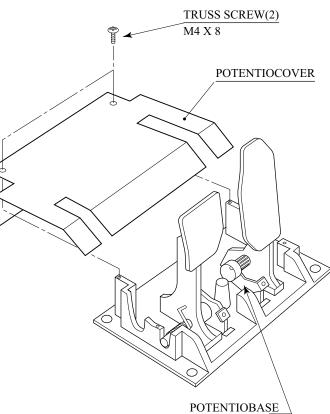
(3) Secure the Potentiobase.

(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).

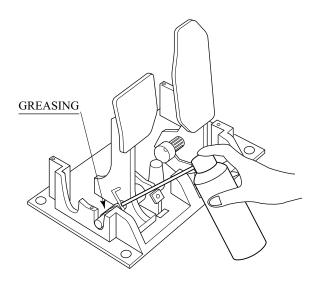


FIG. 12. 3

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.

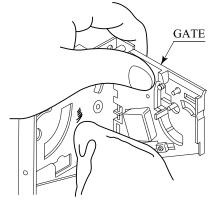


FIG. 13 a

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?

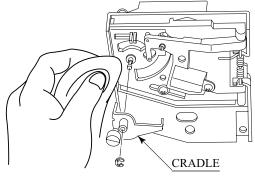
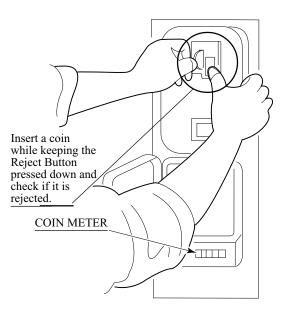


FIG. 13 b



OPTIONAL DOLLAR BILL ACCEPTOR

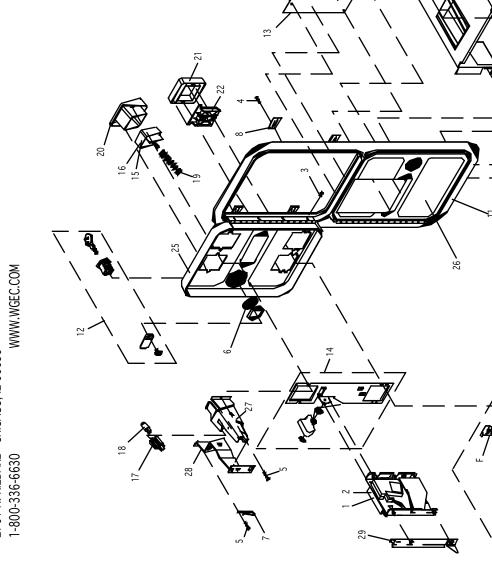
EQUIPPED TO ACC	SSEMBLY USED ON 18 Wheeler Deluxe COMES EPT A DOLLAR BILL ACCEPTOR. ALL NEEDED TIONS ARE CONVIENENTLY LOCATED INSIDE THE PPLICATION.
• THE COIN DOOR C VALIDATOR(S):	CAN ACCCOMMODATE THE FOLLOWING
FORWARD-MOST HOLE POSITION	Mars 2000 series
**42-1155-00	MARS VALIDATOR \$1, 2, 5 300 CAP
a Mars 2000 series up ing the cut-out plate. T one of Happ Controls	x enclosure on this coindoor has been modified to accomodate stacker. A 2000 series stacker can be added by simply remov- This one entry door can be ordered through Happ Controls or authorized distributors. The part number is 40-6000-10EX. be obtained through an autherized Mars distibutor.
Note: Your game may 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

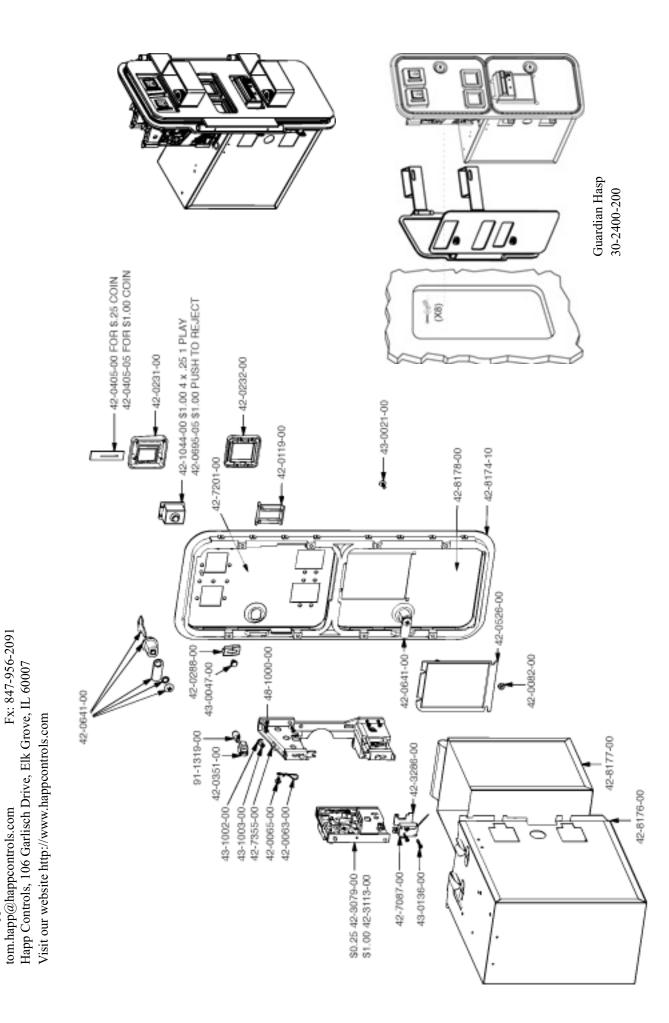
WELLS-GARDNER ELECTRONICS CORPORATION 2701 N. KILDARE CHICAGO, IL 60639 1-800-336-6630 WWW.WGEC.C



23

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

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890-1002-00 HINGE SCREW 890-1003-00 CLAMP SCREW 890-1017-00 SCREW TRLOBULAR 890-1019-00 WASHER INTERNAL 890-1019-00 WASHER INTERNAL 890-1019-00 WASHER INTERNAL 891-0510-01 WASHER INTERNAL 891-0510-01 KETHOOK 891-0510-01 ERENDOR 891-1010-4016 ENCLOSURE W/CHU 891-1010-4016 ENCLOSURE W/CHU 891-1010-4016 ERENDTOU SATE 891-1010-4016 ERENDTOU SATE 891-1010-4016 ERENDTOU SATE 891-1113-011 ERENDTOU SATE 891-1113-015 ERENDTOU SATE 891-1113-016 ERENDTOU SATE 891-1113-017 ERENDTOU SATE 891-1113-018 ENTION US ATE 891-1113-019 ERENDTOU US ATE 891-1113-019 ERENDTOU US ATE 891-1113-010 ERENDTOU US ATE 891-1113-010 ERENDTOU US ATE 891-1110-00 BATON US ATE 891-1110-00 BATON US ATE 891-1110-00		812-4050-011	
890-1005-00 CLAMP SCREW 890-1017-00 SCREW TRLOBLLAR 890-1017-00 WASHER INTERNAL 890-1017-00 WASHER INTERNAL 890-1017-00 WASHER INTERNAL 890-1017-00 WASHER INTERNAL 891-0514-00 WASHER INTERNAL 891-0509-162 DODBLE FRAME 891-0504-016 ENCLOSURE W/CHU 891-0504-016 ENCLOSURE W/CHU 891-0504-016 DODBLE FRAME 891-1010-4016 ENCLOSURE W/CHU 891-1010-4016 ENCLOSURE W/CHU 891-1113-01 LOCK SINGLE BIT 891-1113-01 ER BUTTON US \$1 891-1113-01 BUTTON US \$1 891-1110-00 BUTON US \$1 891-1110-00 BUTON US \$1 891-1110-00 BUTON US \$1 891-1110-00 <td>3</td> <td>890-1002-00</td> <td>HINGE SCREW</td>	3	890-1002-00	HINGE SCREW
890-1017-00 SCREW TRLOBLLAR 890-1019-00 WASHER INTERNAL 890-1019-00 WASHER INTERNAL 890-10510-101 WASHER INTERNAL 891-0514-001 WASHER INTERNAL 891-0510-101 ECLAMP UK 5/8" CAI 991-0504-162 DOUBLE FRAME 891-0100-4016 ENCLOSURE W/CHU 891-0100-4016 ENCLOSURE W/CHU 891-1010-4016 ELAMP UV 5/8" CAI 891-1010-4016 ENCLOSURE W/CHU 891-1113-011 LOCK SINGLE BIT 891-1113-012 ER BUTTON US 41 891-1113-013 ER BUTTON US 41 891-1113-014 ER BUTTON US 41 891-1113-015 ER BUTTON US 41 891-1113-015 ER BUTTON US 41 891-1113-016 DOT-00 SIELER FLAP 891-1113-015 ER BUTTON US 41 891-1113-016 ER BUTTON US 41 891-1110-00 BUTTON US 41	4	890-1003-00	CLAMP SCREW
890-1019-00 WASHER INTERNAL. 890-1300-00 KETHOOK 891-0514-00 KETHOOK 891-0514-00 CLAMP UK 5/8" CAI 991-0514-00 ENCLOSURE W/CHU 025X3712-001 METAL CASHBOK 891-0509-162 DOUBLE FRAME 891-0104-016 ENCLOSURE W/CHU 891-10104-016 ENCLOSURE W/CHU 891-10104-016 ENCLOSURE BASE 891-1113-011 COVER PLATE 891-1113-012 COVER PLATE 891-1113-013 ER BUTTON US 41 891-1113-011 ER BUTTON US 41 891-1113-012 ER BUTTON US 41 891-1113-013 ER BUTTON US 41 891-1113-014 ER BUTTON US 41 891-1113-015 EV RUTTON US 41 891-1113-015 EV RUTTON US 41 891-1110-00 BUTTON US 41 891-1110-00 BUTTON US 41 891-1110-00 RELECT FLAP 891-1110-00 RELECT CLP SDE FL 891-1110-00 BUTTON US 41 891-1110-00 BUTTON US 41 891-1110-00	2	890-1017-00	SCREW TRILOBULAR
890-1300-00 890-1300-00 891-0514-00 025X3712-001 891-050-162 891-051-60 891-050-162 891-0100-4016 891-113-011 891-113-03 891-1113-011 891-1113-03 891-1113-011 891-1113-01 891-1113-011 891-1113-01 891-1113-011 891-1113-01 891-1113-011 891-1113-01 891-1113-010 891-1113-00 891-1113-010 891-1113-00 891-1113-010 891-1110-00 891-1110-00 891-1110-00 891-1110-00 891-1110-00 891-1110-00 891-1110-00 891-1110-00 891-1110-00 891-1110-00 891-1110-00 891-1110-00 891-1002-03 891-1110-01 891-1002-03 891-10102-03 891-0002-03 891-0102-04 891-0002-03 891-0102-01 891-0002-03 891-0102-01 891-0002-03 891-0002-03 891-0002-03 891-0002-04 891-0002-01 891-0002-01	6	890-1019-00	VTERNAL
891-0514-00 891-0514-00 025X3711-001 025X3711-001 891-0504-165 891-0504-1016 891-1008-107 891-1008-107 891-1113-011 891-1113-03 891-1113-011 891-1113-03 891-1113-011 891-1113-01 891-1113-011 891-1113-01 891-1113-011 891-1113-01 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-01 891-1116-00 891-1102-01 891-1002-01 891-1116-01 891-1002-01 891-002-01 891-002-01 891-002-01 891-002-01 891-002-01 891-002-01 891-002-01 891-002-01 891-002-01	2	890-1300-00	КЕҮНООК
025x3711-001 025x3712-001 891-0509-162 891-0504-106 891-1006-107 891-1006-107 891-1113-03 891-1113-03 891-1113-01 891-1113-01 891-1113-01 891-1113-01 891-1113-01 891-1113-01 891-1113-01 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-1116-16 891-1116-16 891-1116-00 891-1116-00 891-1116-16 891-1116-16 891-1116-16 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1002-03 891-1002-03 891-002-04 891-002-03 891-002-03 891-002-04 891-0		891-0514-00	CLAMP UK 5/8" CABINET
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891-0509-162 891-0547-00 891-0100-4016 891-1113-011 891-1113-011 891-1113-011 891-1117-00 891-1117-01 891-1117-01 891-1117-01 891-1117-01 891-1117-01 891-1117-01 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1116-01 891-1002-01 891-1002-01 891-001-01 891-1002-01 891-1002-01 891-001-00 891-001-00 891-002-01 891-002-01 891-002-01 891-002-01 891-001-01 891-001-0	10	025X3712-001	METAL CASHBOX
891-0547-00 891-0100-4016 891-1113-01 891-1113-01 891-1117-00 891-1117-00 891-1118-00 891-1117-00 891-1118-00 891-1118-00 891-1118-00 891-1118-00 891-1118-00 891-1118-00 891-1118-00 891-1118-00 891-1118-00 891-1118-00 891-1118-00 891-1118-00 891-1116-00 891-1106-00 891-1106-00 891-1116-00 891-1116-00 891-1116-00 891-1116-00 891-11125-00 891-11125-00 891-11125-00 891-11125-00 891-11125-00 891-1002-01 891-1002-01 891-1002-01 891-002-01 891-002-01 891-002-01 891-002-01 891-002-01 891-002-01 891-002-01 891-002	11	891-0509-162	DOUBLE FRAME
891-0106-4016 891-0106-4016 891-1113-03 891-1113-03 891-1113-01 891-1113-01 891-11116-00 891-1111-00 891-11116-00 891-1121-0 891-11116-00 891-1111-00 891-11116-00 891-1112-00 891-1112-00 891-1121-0 891-1112-00 891-1121-0 891-1112-00 891-110-16 891-1105-01 891-110-0 891-1105-01 891-110-0 891-1112-00 891-1112-0 891-1112-00 891-110-0 891-1112-00 891-110-0 891-1105-01 891-110-0 891-1105-01 891-1002-03 891-1105-00 891-1002-03 891-1002-03 892-1002-03 892-1002-03 892-1002-03 892-1002-01 892-1002-03 892-1002-01 892-1002-03 892-1002-01 892-1002-03 892-1002-01 892-1002-03 892-1002-01 892-1002-03 892-1002-01 892-1002-03 892-1002-01 <td< td=""><td>12</td><td>891-0547-00</td><td>LOCK SINGLE BIT</td></td<>	12	891-0547-00	LOCK SINGLE BIT
891-1006-107 891-1013-03 891-1113-03 891-1113-03 891-1113-01 891-1113-01 891-1112-00 891-1121-0 891-1121-0 891-1121-0 891-1121-0 891-1121-0 891-1121-0 891-1121-0 891-1121-0 891-1121-0 891-1121-0 891-1121-0 891-1121-0 891-1121-0 891-1109-16 891-1100-0 891-1105-01 891-1100-0 891-1105-01 891-1102-0 891-1105-01 891-1102-0 891-1102-01 891-1102-0 891-1102-01 891-1102-0 891-1102-01 891-1002-01 891-1002-01 891-1002-01 891-002-03 892-1002-01 891-001-00 891-001-10 891-060-116 891-061-16 891-061-16 891-061-16 891-061-16 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01	13	891-0100-4016	COVER PLATE
891-1113-03 891-1113-01 891-1113-01 891-1112-00 891-1112-00 891-1121-0 891-1121-16 891-1121-16 891-1121-16 891-1121-0 891-1121-16 891-1121-0 891-1121-00 891-1121-0 891-1121-16 891-1121-0 891-1109-16 891-110-0 891-1105-01 891-110-0 891-1105-01 891-110-0 891-1105-01 891-110-0 891-1105-01 891-110-0 891-1105-01 891-110-0 891-1105-01 891-110-0 891-1105-01 891-110-0 891-1105-01 891-1002-01 891-1002-01 891-1002-01 891-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 892-1002-01 </td <td>14</td> <td>891-1008-107</td> <td>BASE PLATE ASSEMBLY</td>	14	891-1008-107	BASE PLATE ASSEMBLY
891-1113-011 E/R BUTTON US \$1 891-1112-00 LAMPHOLDER 891-1112-00 LAMP WEDGE BASE 991-1121-16 BUTTON BEZEL, NYL 891-1121-16 BUTTON BEZEL, NYL 891-1121-16 BUTTON BEZEL, NYL 891-1311-16 BUTTON BEZEL, NYL 891-1311-16 BUTTON BEZEL, NYL 891-1311-16 BUTTON BEZEL, NYL 891-1312-16 REJECT BEZEL, NYL 891-1312-16 RUTCON BEZEL, NYL 891-1312-16 RUTCON BEZEL, NYL 891-1312-16 RELECT BEZEL, NYL 891-1312-16 RUCONTCHASE 891-1312-16 RUCONTCHASE 891-1312-16 RELECT BEZEL, NYL 891-105-01 RELECT CUP BASE P 891-1105-00 BRACKET, MICROSWICH RELOCT 891-1112-00 REJUTTRASIN 891-1112-00 B1-1116-00 891-1112-00 B1-1116-00 891-1112-00 B1-1116-00 891-1112-00 B1-1116-00 891-1002-01 B1-1112-00 891-0012-01 SIEEVE, SNAP-NUT 892	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 891-1312-16 BUTTON BEZEL, NYLO 891-1312-16 RELECT ELP 891-1109-16 RELECT ELP 891-1109-16 RELECT ELP 891-1109-16 RELECT CUP SERL, NYLO 891-1109-16 RELECT CUP SEREL, NYLO 891-2106-00 SCREW, ELT HEAD M 891-1105-01 RELECT CUP BASE PL 891-1105-00 RELECT CUP SDE PLA 891-1106-00 RELECT CUP SDE PLA 891-11106-00 RELECT CUP SDE PLA 891-1002-01 BRACKET, MIROON 892-10002-01 SCL	16	891-1113-011	\$1
891-1118-00 LAMP WEDGE BASE 6 891-1121-00 SPRING, E/R BUTTON 891-1312-16 BUTTON BEZEL, NYLON 891-1109-16 REJECT FLAP 020X1877-005 NUT KPS # 32 X/16H 891-1109-16 REJECT FLAP 020X1877-005 NUT KPS # 32 X/16H 891-1105-01 REJECT CUP BASE PL 891-1105-00 SCREW,FLAT HEAD M 891-1105-01 REJECT CUP BASE PL 891-1106-00 REJECT CUP BASE PL 891-1106-00 REJECT CUP BASE PL 891-1107-00 BRACKET, MICROSWITCH 891-1106-00 REJECT CUP BASE PL 891-1116-16 MICROSWITCH, BLACK - 1 891-1116-16 MICROSWITCH, BLACK - 1 891-1116-16 MICROSWITCH, BLACK - 1 892-1002-09 SLEEVE, PANPON 892-1002-09 SLEEVE, SNAP-ON 892-1002-01 BRACKET, LAMPSIDE 891-0614-16 MINI DOOR N/DBV CN 892-1002-02 <td>17</td> <td>891-1117-00</td> <td>LAMPHOLDER</td>	17	891-1117-00	LAMPHOLDER
891-1121-00 SPRING, E/R BUTTON 891-1311-16 BUTTON BEZEL, NYLO 891-1312-16 RELECT FLAP 891-1109-16 RELECT FLAP 891-2116-16 RELECT FLAP 891-2116-16 RELECT LAP 891-2116-01 RELECT LAP 891-2105-01 RCROSWITCH ASSEM 891-1105-01 REPUT 891-1106-00 BRACKET, MICROSWITCH ASSEM 891-1107-00 BRACKET, MICROSWITCH ASSEM 891-1106-00 RELECT CUP BASE PL 891-1106-00 BRACKET, MICROSWITCH ASSEM 891-1106-00 BRACKET, MICROSWITCH ASSEM 891-1106-00 BRACKET, MICROSWITCH ASSEM 891-1110-00 COVER, PLASTEC, CON 891-1110-00 BRACKET, MICROSWITCH BASE PL 891-1116-16 MICROSWITCH BASE PL 8	18	891-1118-00	9
891-1311-16 BUTTON BEZEL, NYLO 891-1312-16 REJECT BEZEL, NYLO 891-1312-16 REJECT ELEP 891-1215-16 REJECT FLAP 891-2215-16 MCROSWITCH ASSEM 891-2215-16 MCROSWITCH ASSEM 891-2215-16 MCROSWITCH ASSEM 891-1105-01 REP NUT 891-1105-01 KEP NUT 891-1105-01 REJECT CUP BASE PL 891-1105-00 BRACKET, MCROSWITCH ASSEM 891-1105-01 REJECT CUP BASE PL 891-1105-00 BRACKET, MCROSWITCH ASSEM 891-1105-00 BRACKET, MCROSWITCH ASSEM 891-1105-00 CUCB, PLASTRC 891-1116-16 MCROSWITCH, BLACK- 892-1002-07 SCREW, PAN-ON 892-1002-07 CLUP, SNAP-ON 891-0604-16 MINI DOOR N/DEN V/DEN V 891-0604-16 MIN DOOR	19	891-1121-00	SPRING, E/R BUTTON
891-1312-16 RELECT BEZEL, NYLO 891-1109-16 REJECT FLAP 020X1877-005 NUTKEPS #9.32 X5/161 891-12016-00 NUTKEPS #9.32 X5/161 891-1105-01 MCROSWITCH ASSEM 891-1105-01 SCREW/LAT HEAD IN 891-1105-01 REJECT CUP BASE PL 891-1107-00 BRACKET, MICROSWIT 891-110-00 REJECT CUP BASE PL 891-110-00 RADUSTER, COIN 891-110-00 BRACKET, MICROSWIT 891-110-00 REJECT CUP BASE PL 891-110-00 REJECT CUP BASE PL 891-110-00 REJECT CUP BASE PL 891-110-00 REJOUSTER, COIN 891-110-00 BRACKET, MICROSWIT 891-110-00 BRACKET, MICROSWIT 891-110-00 BRACKET, MICROSWIT 891-110-00 CUP, SIMP-ON 891-101-16-16 MICROSWIT 891-101-2-10 BRACKET, MICROSWIT 892-1002-01 BRACKET, LAMPSIDE 892-1002-01 BRACKET, COVERSDI 892-1002-01 BRACKET, COVERSDI 892-1002-01 BRACKET, COVERE	20	891-1311-16	BUTTON BEZEL, NYLON
891-1109-16 REJECT FLAP 020X1877-005 NUTKEPS #6-32 X5/161 891-2216-16 MICROSWITCH ASSEM 890-1007-00 SCREW/LLAT HEAD IN 890-1105-01 KEP NUT 891-1105-01 REJECT CUP BASE PL 891-1107-00 BRACKT, MICROSWIT 891-1116-16 MICROSWITCH, BLAC 891-1116-16 MICROSWITH, BLAC 891-11125-00 CUPR, PLASTIC 891-11125-00 CUPR, PLASTIC 891-11125-00 SUPON 892-1002-07 SUPAN 892-1002-07 BRACKT, SUPAN 892-1002-07 BRACKT, LAMPSIDE 892-1002-01 BRACKT, COVERDID 892-1002-01 BRACKT, COVERDID 892-1002-01 BRACKT, HOLD DOW 892-1002-10 BRACKT, HOLD DOW	21	891-1312-16	REJECT BEZEL, NYLON
020X1877-005 NUTKPS #8-32 X5/161 891-2216-16 MICROSWITCH ASSEM 890-1007-00 SCREW/FLAT HEAD IN 890-1106-01 KEP NUT 891-1107-00 REJECT CUP SDE PL/ 891-1107-00 RACKT, MICROSWITCH 891-1110-00 ADJUSTER, CON 891-1116-16 MICROSWITCH ASSEM 891-1116-10 REJECT CUP BASE PL/ 891-1116-10 ADJUSTER, CON 891-1116-10 ADJUSTER, CON 891-1116-10 MICROSWITCH BASE PL/ 891-1116-10 ADJUSTER, CON 891-1116-10 ADJUSTER, CON 891-1116-16 MICROSWITCH BASE PL/ 891-1116-16 MICROSWITCH BACK 891-1116-16 MICROSWITCH BACK 891-1116-16 MICROSWITCH PLAD 892-1002-07 SCREW, PAN HEAD 892-1002-07 BRACKT, LAWENDE 892-1002-01 BRACKT, COVERSID 892-1002-01 BRACKT, COVERSID 892-1002-01 BRACKT, HEAD ON 892-1002-01 BRACKT, HEAD ON 892-1002-01 BRACKT, HEAD ON	22	891-1109-16	REJECT FLAP
891-2216-16 MICROSWITCH ASSEM 890-1007-00 SCREW,FLAT HEAD IN 890-1105-01 SCREW,FLAT HEAD IN 891-1105-01 RELECT CUP SDE PL/ 891-1106-00 RELECT CUP BASE PL 891-1116-16 MICROSWITCH,BLACK- 891-1010-00 SREW,POIN 892-1002-07 SCREW,PAN HEAD 892-1002-09 SLEEVE,SI SAPA ON 892-1002-01 SCREW,PAN HEAD 892-1002-01 BRACKET,LAWESIDE 892-1002-01 BRACKET,COVERSID 892-1002-01 BRACKET,COVERSID 892-1002-01 BRACKET,COVERSID 892-1002-02 BRACK	23	020X1877-005	NUT KEPS #8-32 X 5/16 HEX
890-1007-00 SCREW,FLAT HEAD IN 890-1206-02 KEP NUT 891-1105-01 REJECT CUP SDE PL/ 891-1107-00 BRACKET, MICROSWI 891-1116-16 MICROSWITH,BLACK- 892-1002-07 CUER, PLASTIC 892-1002-07 CUER, PLASTIC 892-1002-07 SCREW,PAP NUT 892-1002-09 SLEEVE, SIMP ON 892-1002-01 SCREW,PAP NUT 892-1002-03 SLEEVE, SIMP ON 892-1002-01 BRACKET, LAMPSIDE 892-1002-01 BRACKET, COVERSDID 892-1002-01 BRACKET, COVERSDID 892-1002-01 BRACKET, COVERSDID 892-1002-01 BRACKET, HOLD DOW	24	891-2216-16	MICROSWITCH ASSEMBLY
890-1206-02 KEP NUT 891-1105-01 REJECT CUP SDE PL/ 891-1105-00 REJECT CUP SDE PL/ 891-1105-00 BRACKET, MICROSWI 891-1116-16 MICROSWITCH, BLACK - 891-1116-16 MICROSWITCH, BLACK - 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, SNAP-ON 892-1002-07 CLIP, SNAP-ON 892-1002-07 SLEEVE, SNAP-ON 892-1002-07 SLEEVE, SNAP-ON 892-1002-07 SLEEVE, SNAP-ON 892-1002-07 BRACKT, LAMPSUC 892-1002-07 BRACKT, LAMPSUC 892-1002-01 BRACKT, COVERSID 892-1002-01 BRACKT, COVERSID 892-1002-01 BRACKT, COVERSID 892-1002-01 BRACKT, HOLD DOW	24A	890-1007-00	SCREW,FLAT HEAD M/S
891-1105-01 RELECT CUP SDE PL 891-1106-00 REJECT CUP BASE PL 891-1106-00 BRACKET, MICROSWI 891-1116-16 MICROSWITCH, BLACK 891-10102-09 SUER, PLASTICC 892-1002-07 CUPR, PLASTICC 892-1002-08 ELASTIC SIMP NUT 892-1002-09 SLEEVE, SIMP-ON 892-1002-01 SCREW, PAN HEAD 891-0614-16 MINI DOOR WUBBY 891-0614-16 MINI DOOR WUBBY 891-0614-16 BRACKET, LAMPSIDE 891-0614-16 BRACKET, COVERSIDE	24B	890-1206-02	KEP NUT
891-1106-00 REJECT CUP BASE PL 891-1107-00 BRACKET, MICROSWI 891-1116-16 ADJUSTER, COIN 891-1116-16 MICROSWITGH,BIACK 891-1115-00 ADJUSTER, COIN 891-1125-00 COVER, PLASTIC 892-1002-07 CLIP, SNAP-ON 892-1002-08 ELASTIC SNAP-ON 892-1002-09 SLEEVE, SNAP-ON 892-1002-01 SCREW, PAN HEAD 892-1002-01 SCREW, PAN HEAD 892-1002-01 SCREW, PAN HEAD 892-1002-01 BRACKET, LAPPENC 891-0614-16 MINI DOOR W/DBV 891-0614-16 MINI DOOR W/DBV 892-1002-01 BRACKET, LAPPENC 892-1002-01 BRACKET, COVERDID 892-1002-01 BRACKET, COVERDID	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 891-1116-16 MICROSWITGH, BLACK - 891-1116-16 MICROSWITGH, BLACK - 892-1002-07 CUER, PLASTIC 892-1002-08 ELASTIC SNAP-ON 892-1002-09 SLEEVE, SIMAP-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/DBV 891-0614-16 MINI DOOR W/DBV 892-1002-01 BRACKET, LAMPSIDE 892-1002-01 BRACKET, COVERSIDE 892-1002-01 BRACKET, COVERSIDE 892-1002-01 BRACKET, COVERSIDE	24D	891-1106-00	REJECT CUP BASE PLATE
891-1110-00 ADUUSTER, COIN 891-1116-16 MICROSWITCH, BLACK - 891-1115-5-00 MICROSWITCH, BLACK - 892-1002-07 CUER, PLASTIC 892-1002-07 CUER, SNAP-ON 892-1002-09 SLEEVE, SIMP-ON 892-1002-09 SLEEVE, SIMP-ON 892-1002-01 SCREW, PAN HEAD 891-060-16 MINI DOOR W/DBV 891-061-16 MINI DOOR W/DBV 891-061-16 MINI DOOR W/DBV 891-061-16 MINI DOOR W/DBV 891-061-16 BRACKET, LAMPSIDE 892-1002-01 BRACKET, COVERDID 892-1002-01 BRACKET, COVERDID 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 892-1002-11 SCREW, PAN HEAD 891-0604-16 MINI DOOR 2007 891-0614-16 MINI DOOR 2007 891-0102-01 BRACKET, LOVERSIDE 892-1002-021 BRACKET, COVERSIDE	24F	891-1110-00	ADJUSTER, COIN
891-1125-00 892-1002-07 892-1002-08 892-1002-09 892-1002-01 892-1002-11 892-1002-11 892-1002-01 892-1002-01 892-1002-01	24G	891-1116-16	1.1
892-1002-07 892-1002-09 892-1002-09 892-1002-11 891-0610-16 891-0610-16 892-1002-01 892-1002-01 892-1002-01 892-1002-10	24H	891-1125-00	COVER, PLASTIC
892-1002-08 892-1002-09 892-1002-11 891-0604-16 891-0614-16 892-1002-01 892-1002-02 892-1002-10	24J	892-1002-07	CLIP, SNAP-ON
892-1002-09 892-1002-11 891-0604-16 891-0614-16 892-1002-01 892-1002-01 892-1002-021 892-1002-021	24K	892-1002-08	ELASTIC SNAP NUT
892-1002-11 891-0604-16 891-0614-16 892-002-01 892-1002-01 892-1002-021	24L	892-1002-09	SLEEVE, SNAP-ON
891-0604-16 891-0614-16 892-1002-01 892-1002-021 8922-1002-021 8922-1002-10	24M	892-1002-11	SCREW, PAN HEAD
891-0614-16 892-1002-01 892-1002-021 892-1002-01 892-1002-10	25	891-0604-16	Mini Door 2 Entries
892-1002-01 892-1002-021 892-1002-10	26	891-0614-16	MINI DOOR W/DBV C/O
892-1002-021 892-1002-10	27	892-1002-01	BRACKET, LAMPSIDE
892-1002-10	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.

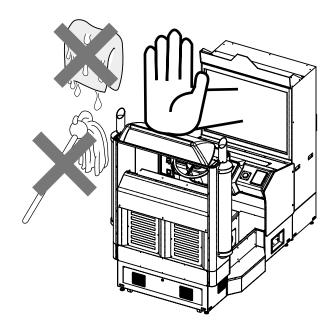


FIG. 14. 1

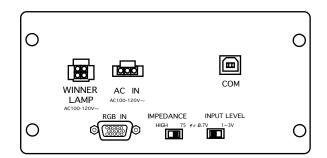
14 - 2 ADJUSTMENT OF TOSHIBA PROJECTOR

SETTING THE INTERFACE



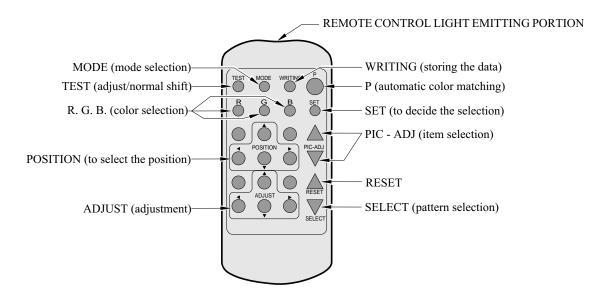
In this product, set to INPUT LEVEL: 0.7V and IMPEDANCE: $75\dot{E}\partial$. Failure to observe this can cause CRT membrane to burn or Shutdown device to function resulting in power off.

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



REMOTE CONTROL BUTTONS

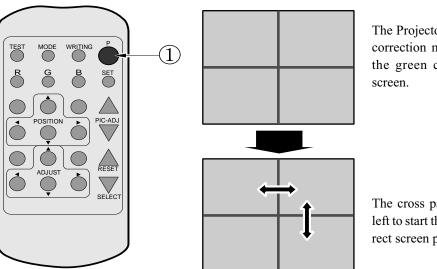
When adjusting the Projector, direct the Remote Control's light emitting portion towards the Projector Screen.



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.

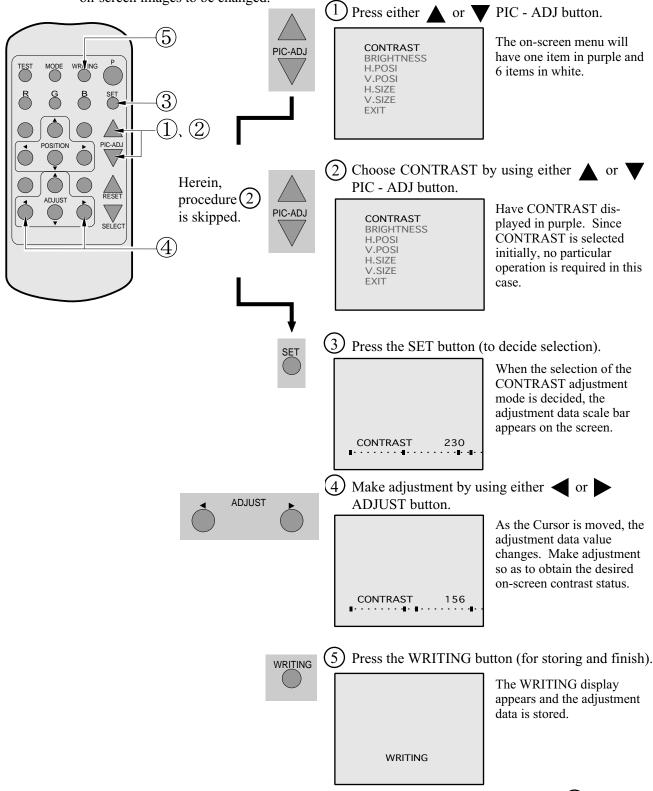
The cross pattern moves up/down and right/ left to start the movement of searching the correct screen position and inclination.

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

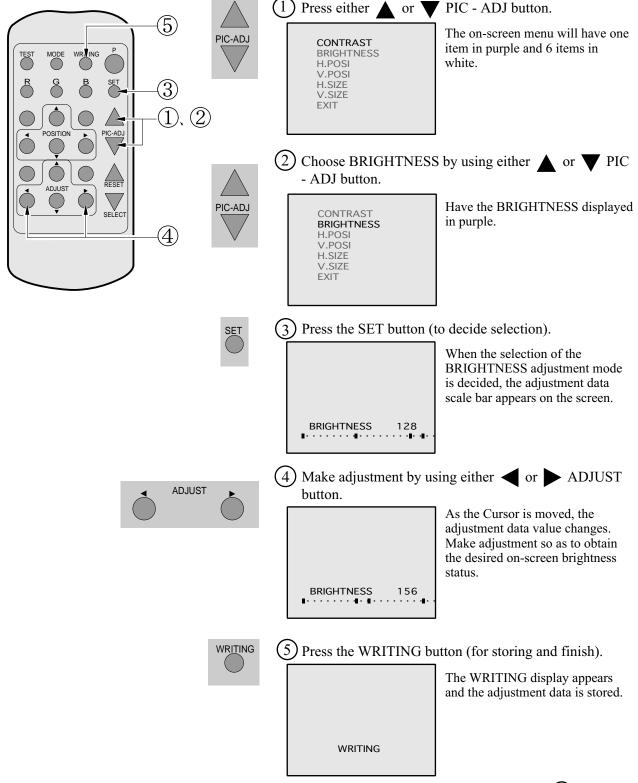
Although the on-screen picture quality has been adjusted at the time of shipment from the factory, the on-screen contrast can be readjusted if desired. When the Game Board is replaced, readjustment may be necessary. Changing the CONTRAST causes the light and shade of the on-screen images to be changed.



- 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

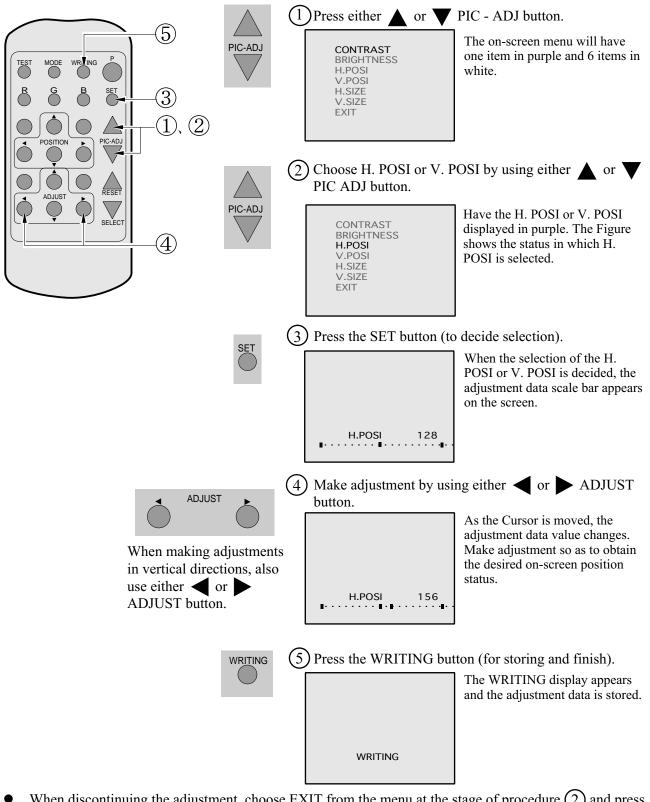
Although the on-screen picture quality has been adjusted at the time of shipment from the factory, readjustment can be made if desired. When the Game Board is replaced, readjustment may be necessary. Changing the BRIGHTNESS causes the brightness of the on-screen images of black portions to be changed.



- 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

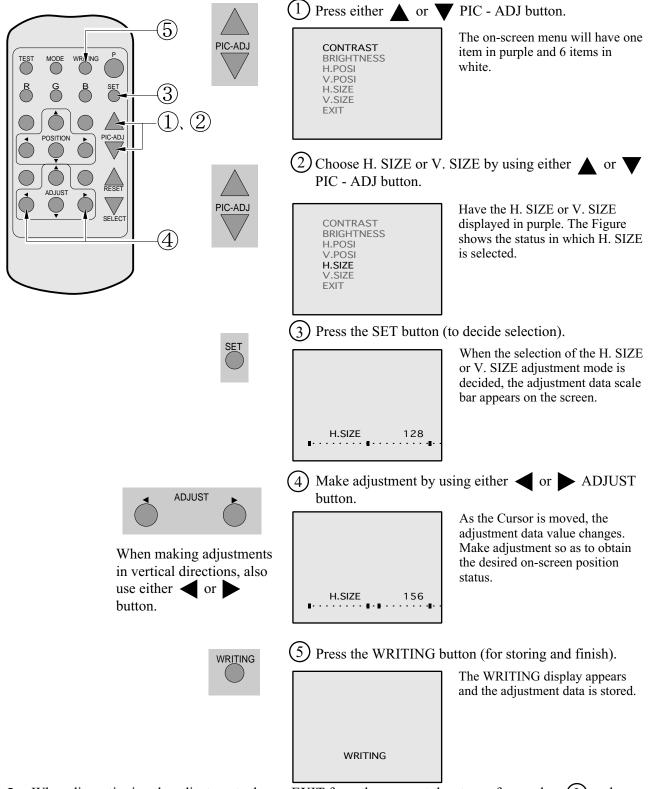
Although the on-screen display position (H. POSI, V. POSI) has been adjusted at the time of shipment from the factory, readjustment can be made if desired. When the Game Board is replaced, readjustments may be necessary.



- 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 mean due (2), (4)
- 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.

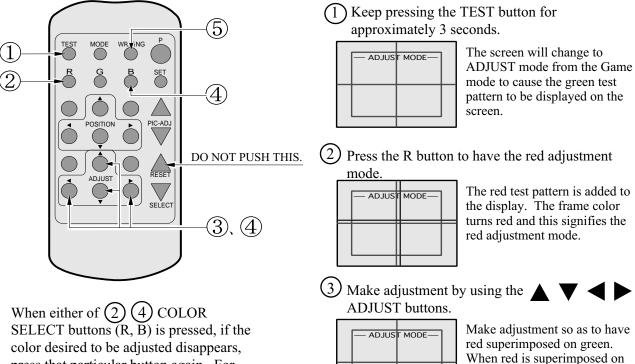
Should the menu shown right be displayed by mistake, first choose EXIT by using either \blacktriangle or \bigvee PIC - ADJ button and then press the SET button.

ADJUST	MODE	
SUB VS SUB HS SUB BE 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.

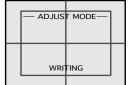
yellow.

-							
	— ADJUS	F 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)

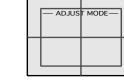
MARKER

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.

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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 - Addust Moda-	

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).

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		Ŧ		D	π	S		чC	厄	E-			
- H	+	+	+	÷ε	<u>-</u>						_		\rightarrow
- H	+	+	+	+	F	H		H	H	H		H	\vdash
t	1	1											
- #	_	+	-	-							_		
- H	+	+	+	+-	⊢	H		H				H	\vdash
- 11	+	+	+	+	-								\vdash
	-	\mp				D+	FH	ΗG					
- H	+	+	+	+	vv	N		NG.			_		\vdash
- 11	+	+	+	+	⊢	H				H		H	\vdash
			-	1									

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

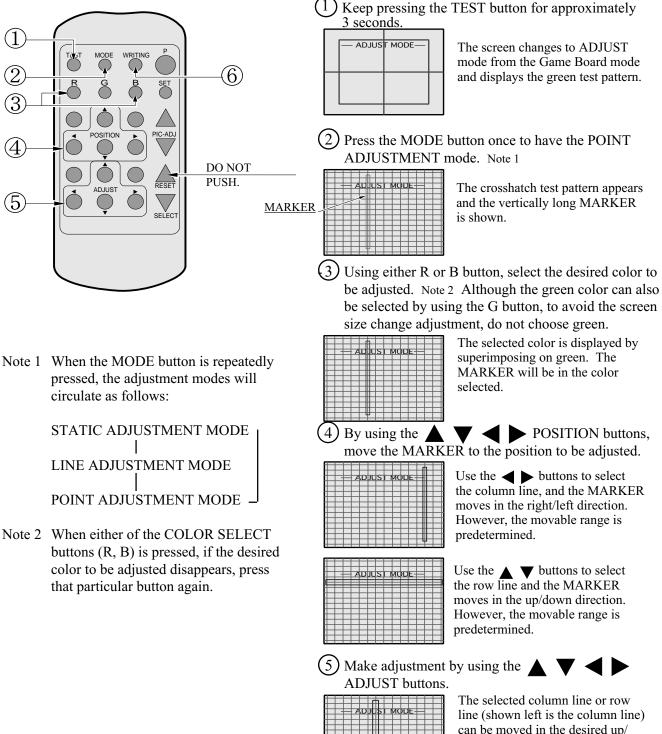
Note 1 When the MODE button is repeatedly pressed, the adjustment modes will circulate as follows:

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.

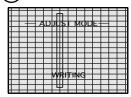
LINE CONVERGENCE ADJUSTMENT

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.



line (shown left is the column line) can be moved in the desired up/ down or right/left directions as applicable.

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



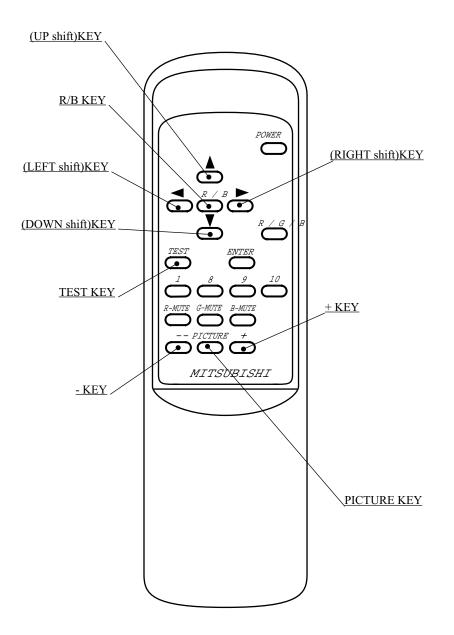
WRITING is displayed and the adjustment data is stored. After the data is stored, the Game Board screen returns.

14 - 3 ADJUSTMENT OF MITSUBISHI PROJECTOR

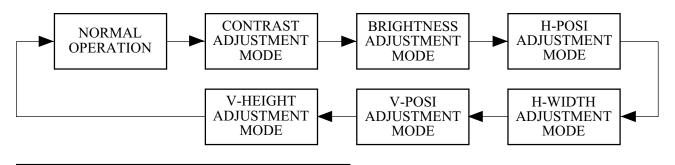


- For the operation of Remote Control, use only the Keys of R/B,
 ▲ (UP shift), <
 (LEFT shift), ▼ (DOWN shift),
 (RIGHT shift), TEST, -, +, and PICTURE. Do not press keys other than those explained in this manual.
- When operating the Remote Control, have it point the screen.

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. 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- TRAST, BRIGHTNESS, HORIZONTAL/VERTICAL POSITIONS and WIDTH.
• + KEY	Used to increase the adjustment data in the adjustment mode of CON- TRAST, BRIGHTNESS, HORIZONTAL/VERTICAL POSITIONS and 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:

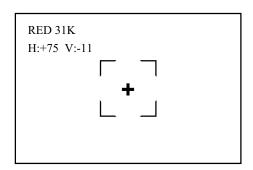


EXPLANATIONS OF ADJUSTMENT MODES

- 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.

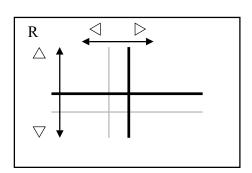
Press the TEST KEY. Adjustment is finished.

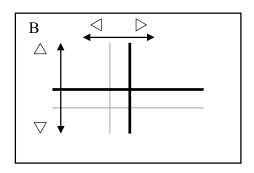
AUTOMATIC CANCELLATION OF ADJUSTMENT MODE

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

rbb тy





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.

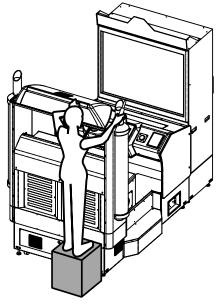


- To perform work safely and securely, be sure to prepare a step which is in a secure and stable condition. Performing work without using the step can cause violent falling down accidents.
- Be careful when handling the plastic made parts. Failure to observe this may cause injury due to damage or fragments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

THE FLUORESCENT LAMP INSIDE THE MAIN BILLBOARD

1 Turn off power.

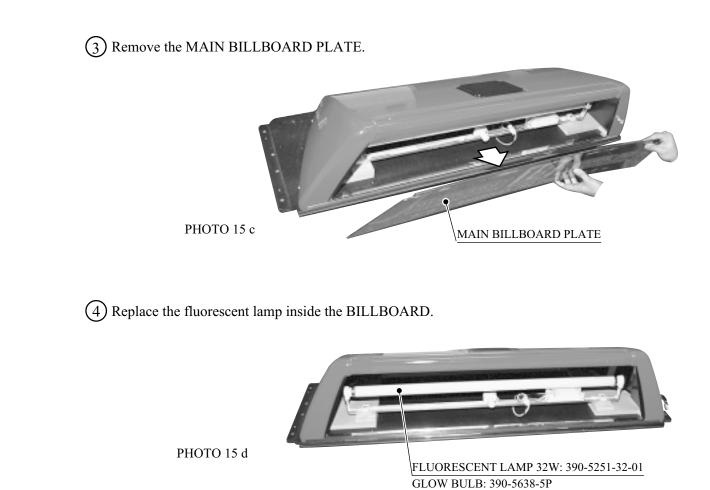
 \bigcirc Take out the 3 screws to remove the SASH.



When performing work, be sure to use a step.

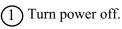
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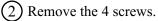
PHOTO 15 b



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.





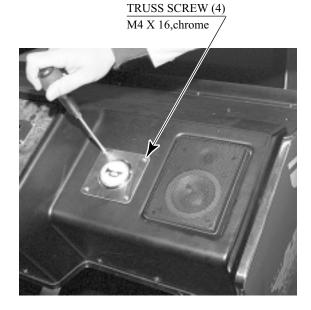
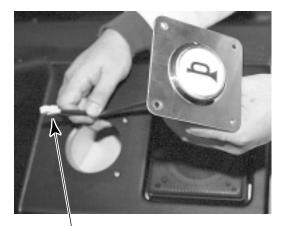


PHOTO 15 e

- (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.



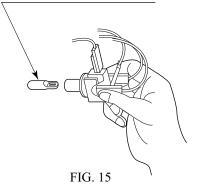
PHOTO 15 g



Disconnect the connector.

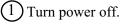
PHOTO 15 f

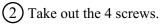
LAMP14V 3.8W 390-6677-038



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.





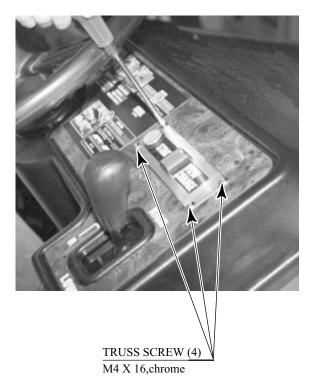
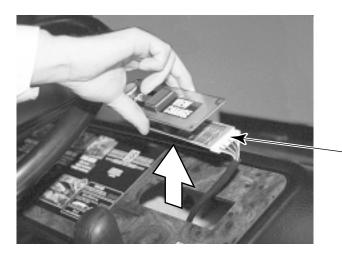


PHOTO 15 h

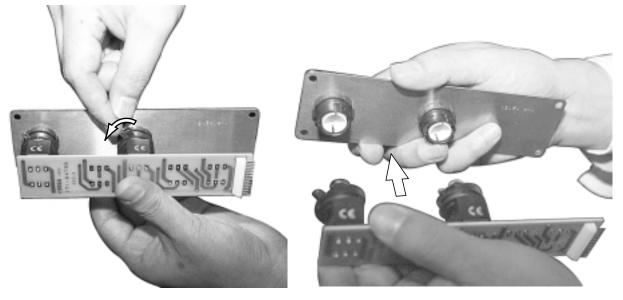


3 A connector is connected to the start button and the view change button. Disconnect the connector, and the ASSY VR BUTTON START & VIEW 1 can be removed.

Disconnect the connector.

PHOTO 15 i

(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

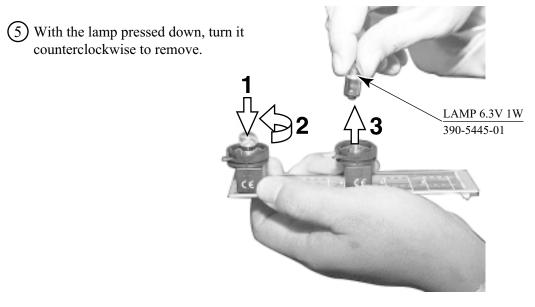


PHOTO 15 k

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	F 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



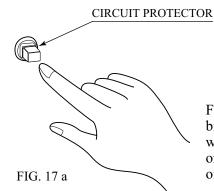
- In order to prevent electric shock and short circuit, be sure to turn power off before performing work.
- Be careful so as not to damage wirings. Damaged wiring can cause electric shock or short circuit.
- After removing the cause of the functioning of the Circuit Protector, reinstate the Circuit Protector. 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 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, reinstate the AC Unit's Circuit Protector (see 5, Section 6, Refer to the following).
The color on PTV screen is incorrect.	Image adjustment is inappropriate.	Adjust appropriately (see Sec.14).
Color deviation 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
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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 Super Woofer and Base Shaker are 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 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 reaction strength is insufficient.	Reaction Mecha's secular change.	Change the setting in the Test Mode (see Sec. 9).
No Steering Wheel Reaction.	Connector Connection is incorrect.	Check the connector's connection inside the LID TOP FRONT. (see 10-1)
SHIFT LEVER doesn't operate 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

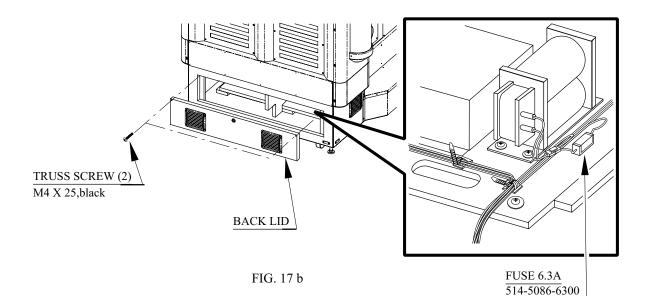


- Fuse replacements other than those specified can cause accidents and are strictly forbidden. In case fuse replacements other than those stated in this manual are necessary, contact where you purchased the product from for inquiries regarding this matter.
- In order to prevent an electric shock, be 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.



18. GAME BOARD

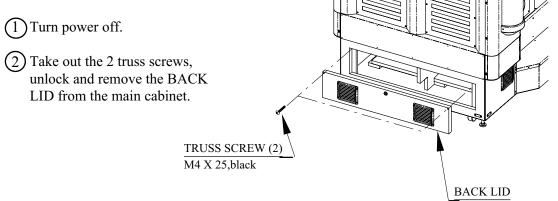


- In order to prevent electric shock and short circuit hazards, be sure to turn power off before performing work.
- Be careful so as not to damage wirings. Damaged wiring can cause fire, electric shock or short circuit.
- Do not expose the Game BD, etc. without a good reason. Failure to observe this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



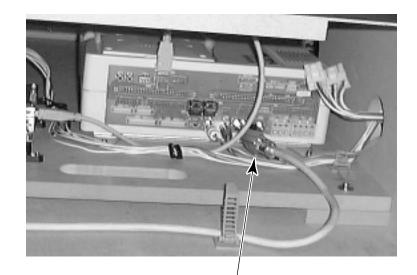
In this product, setting changes are made during the test mode. The Game BD need not be operated. Use the Game BD, etc. as is with the same setting made at the time of shipment so as not to cause electric shock and malfunctioning.

18 - 1 REMOVING THE BOARD





3 Disconnect all connectors connected to the NAOMI GAME BOARD.



РНОТО 18.1 а

Disconnect the connector

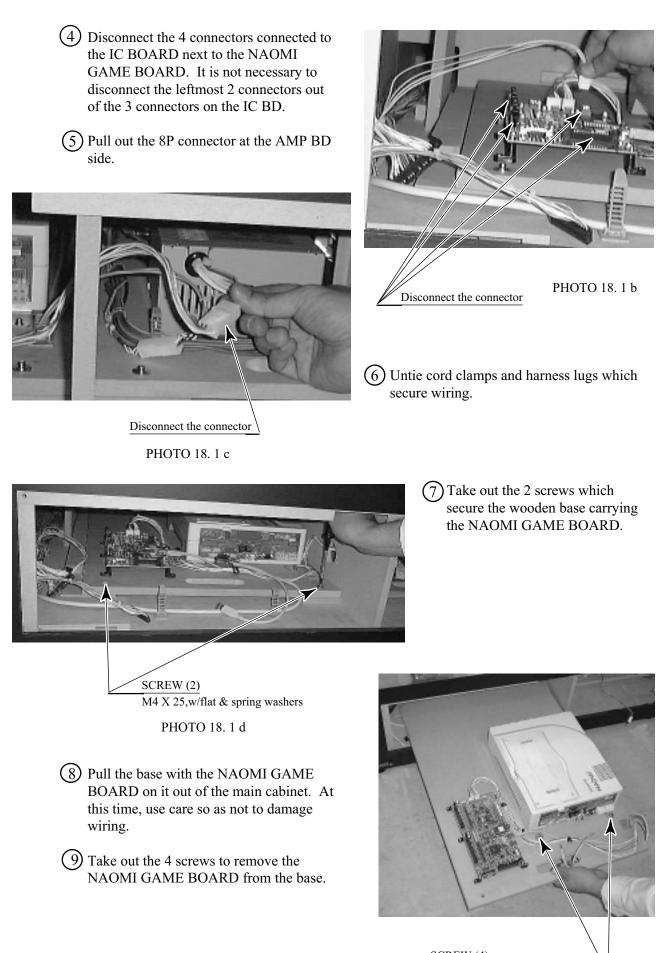


PHOTO 18.1 e

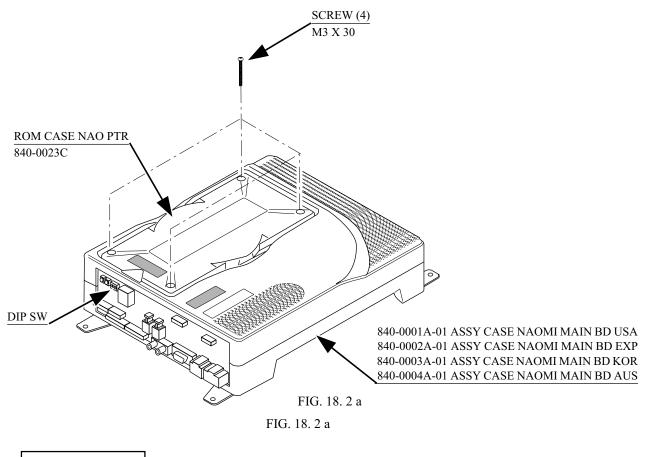
SCREW (4) M4 X 16,w/flat & spring washers

18 - 2 COMPOSITION OF GAME BOARD



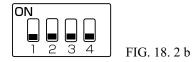
Ensure that the DIP SW setting is performed as designated. Failure to observe this may cause functioning not suitable for the actual operation, or malfunctioning.

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

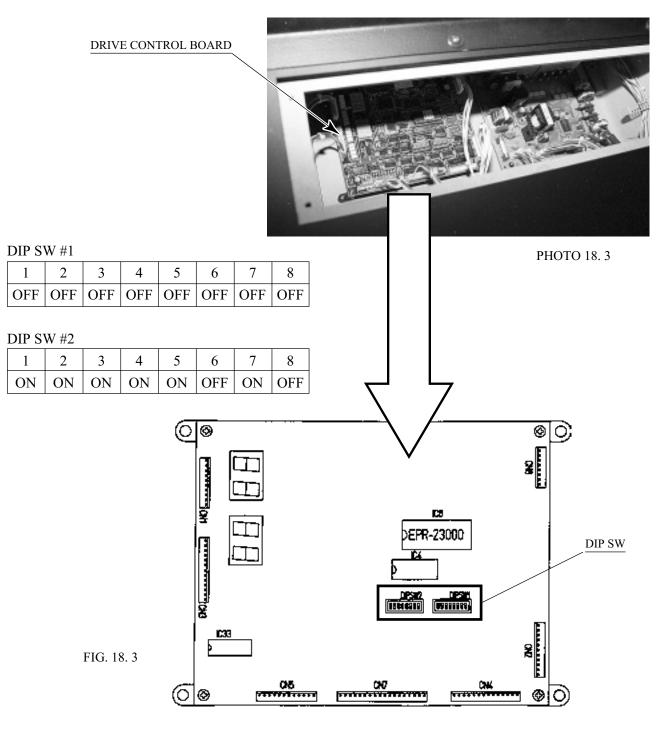
Table 18. 3 ERROR DISPLAY

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.

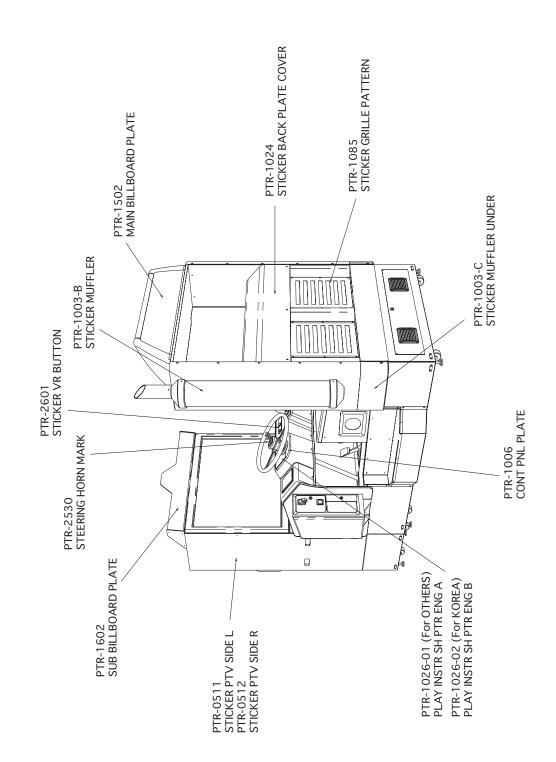
If Error display is shown on the screen, remove LID TOP FRONT without turning power off to check the 7-SEG display on the Drive Control Board. At this time, if the power is turned off, each of Er 23, 24, 25 and 30 (Error Code e1, 2, 3 and a) which could have occurred during operation may not be displayed.

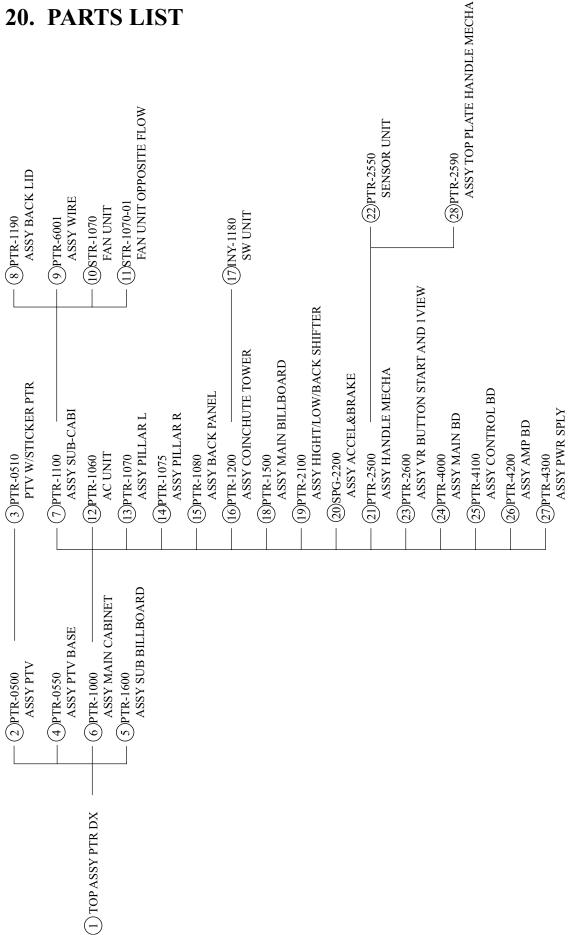
Perform the DIP SW setting on the DRIVE CONTROL BOARD as shown below.

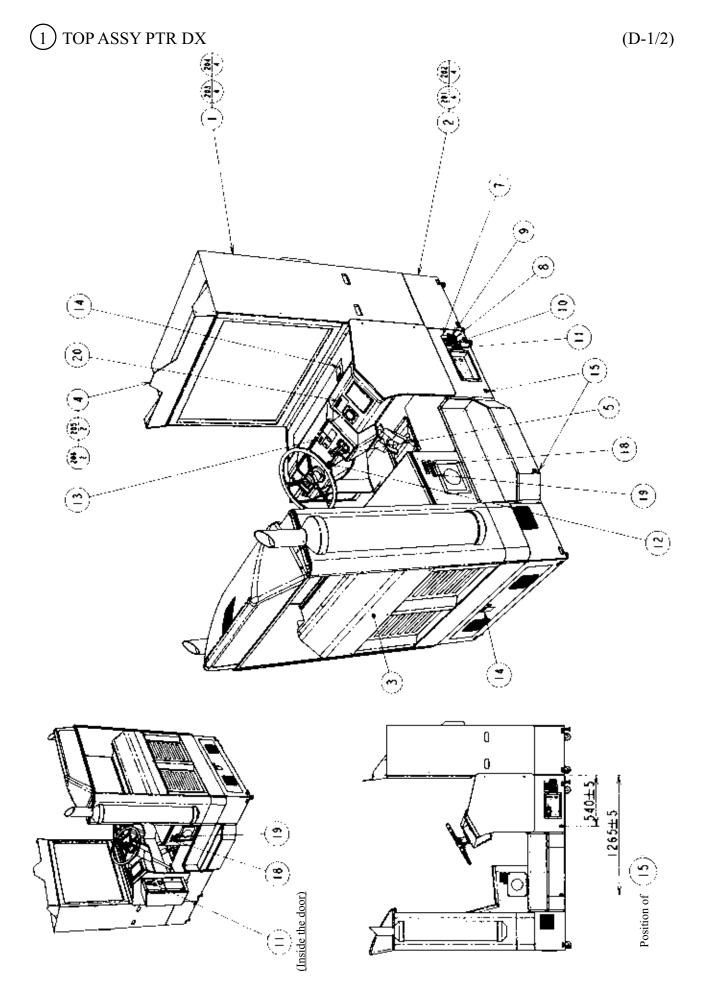


19. DESIGN RELATED PARTS

For the Warning Display stickers, refer to Section 1.



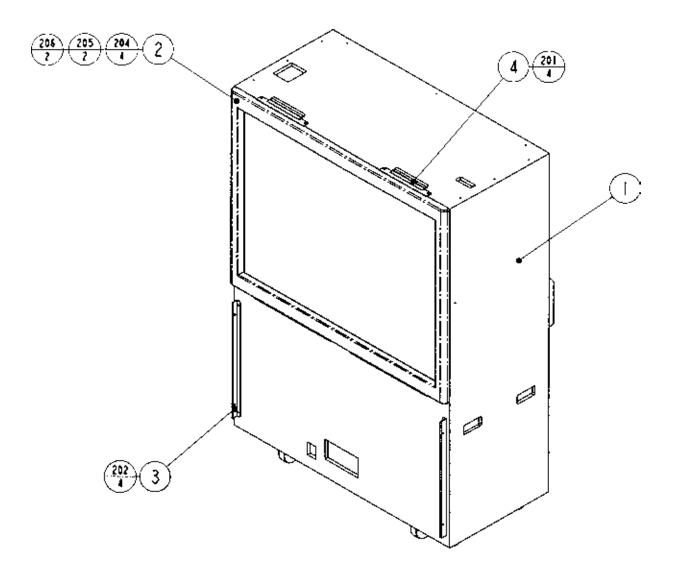




(1) TOP ASSY PTR DX

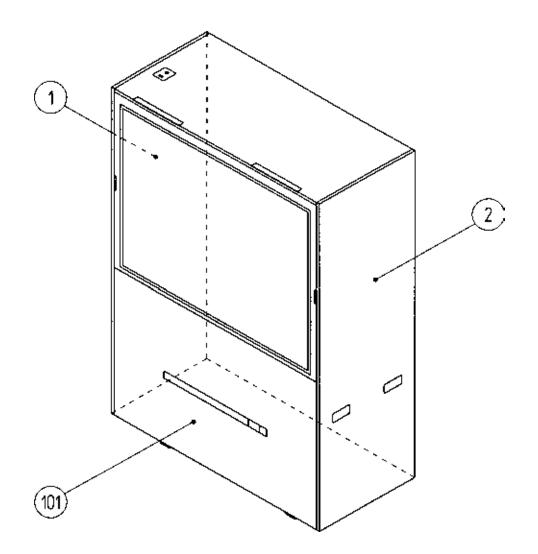
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	PTR-0500	ASSY PTV	
2	PTR-0550	ASSY PTV BASE	
$\frac{2}{3}$	PTR-1000	ASSY MAIN CABINET	
4	PTR-1600	ASSY SUB BILLBOARD	
5	421-7308-~	DENOMI SH 1GAME, ~	
13	440-CS0186-EG	STICKER C EPILEPSY 40 ENG	
13	440-WS0002XEG	STICKER W POWER OFF ENG	
15	421-7020	STICKER CAUTION 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	
	110 050200 20	51101221 01 1111 011110 120101120	
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 5256	SHIPPING BRKT	
/	105-5356		
/	421-8740	CAUTION INSTR COP U/R	AC 220V AREA
/	421-6690-03	STICKER 220V	
/	421-6690-05 421-6690-06	STICKER 240V STICKER 110V	AC 240V AREA AC 110V AREA
/	421-6690-06	STICKER 110V STICKER 120V	AC 110V AREA AC 120V AREA
/	421-6119-91	STICKER FCC	MC 120V AREA
/	421-6120-92	STICKER SEGA USA	$\sim USA$
/	721-0120-92	STICKER SEUA USA	-

(D-2/2)



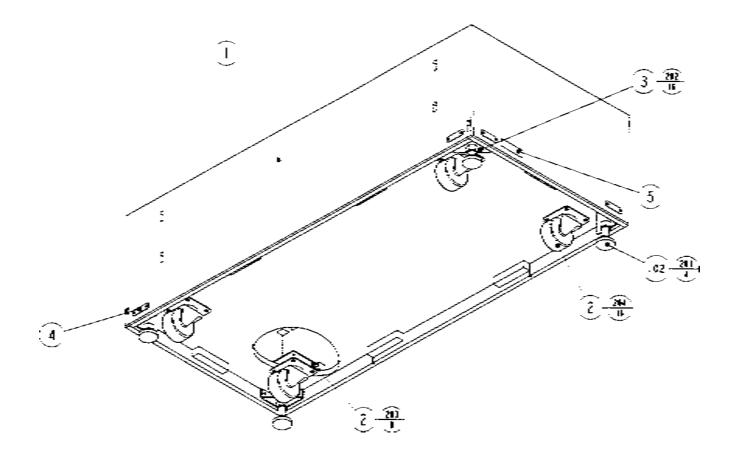
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	PTR-0510	PTV W/STICKER PTR	
2	MGL-1150	ASSY MASK	
3	HOD-1101	PTV HOLDER	
4	RAL-0501	MASK HOLDER	
201	000-F00412	M SCR FH M4 X 12	
202	000-P00516-W	M SCR PH W/FS M5 X 16	
204	000-P00520-W	M SCR PH W/FS M5 X 20	
205	000-T00525-0C	M SCR TH CRM M5 X 25	
206	068-552016-0C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

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



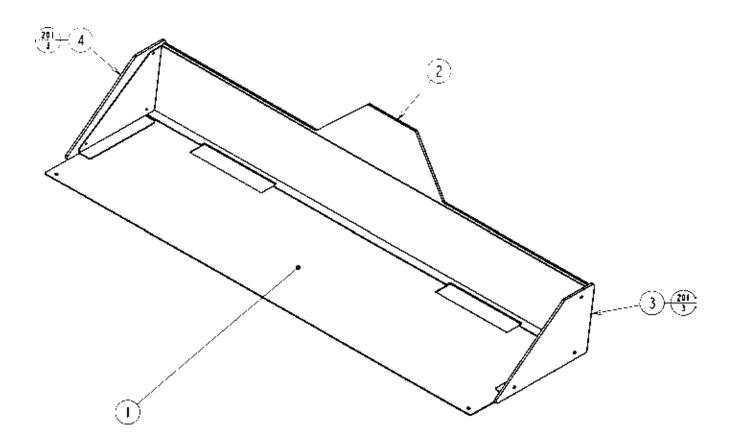
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1 2	PTR-0511 PTR-0512	STICKER PTV SIDE L STICKER PTV SIDE R	
101	200-5788-31 200-5799-31	PROJECTION DSPL T 50TYPE 31K PROJECTION DSPL M 50TYPE 31K	

(4) ASSY PTV BASE (PTR-0550)

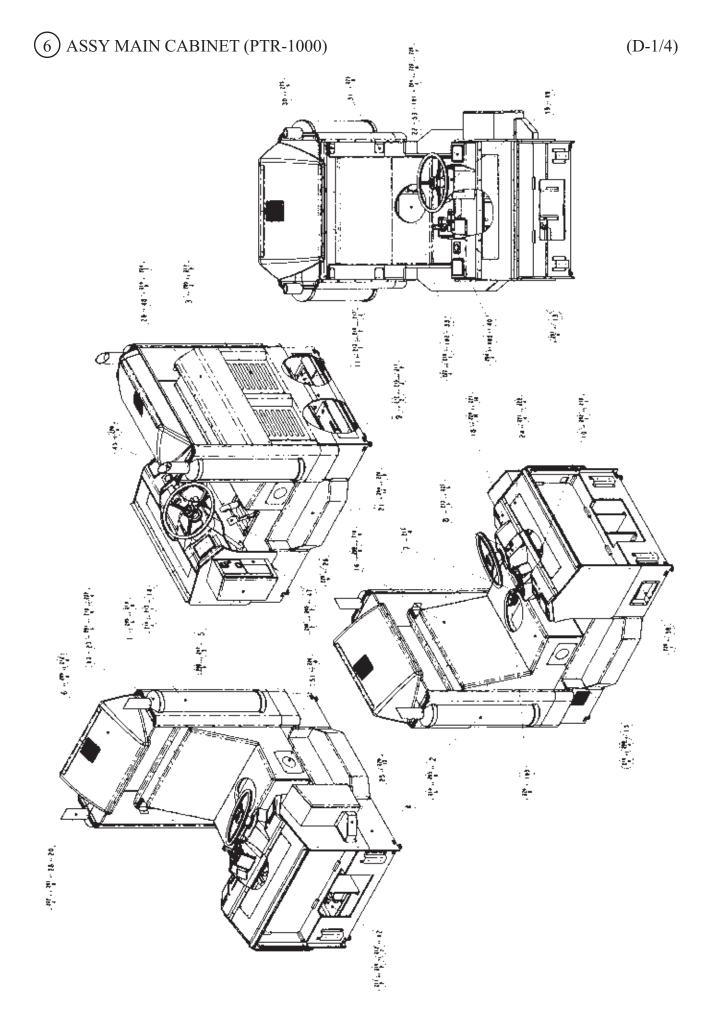


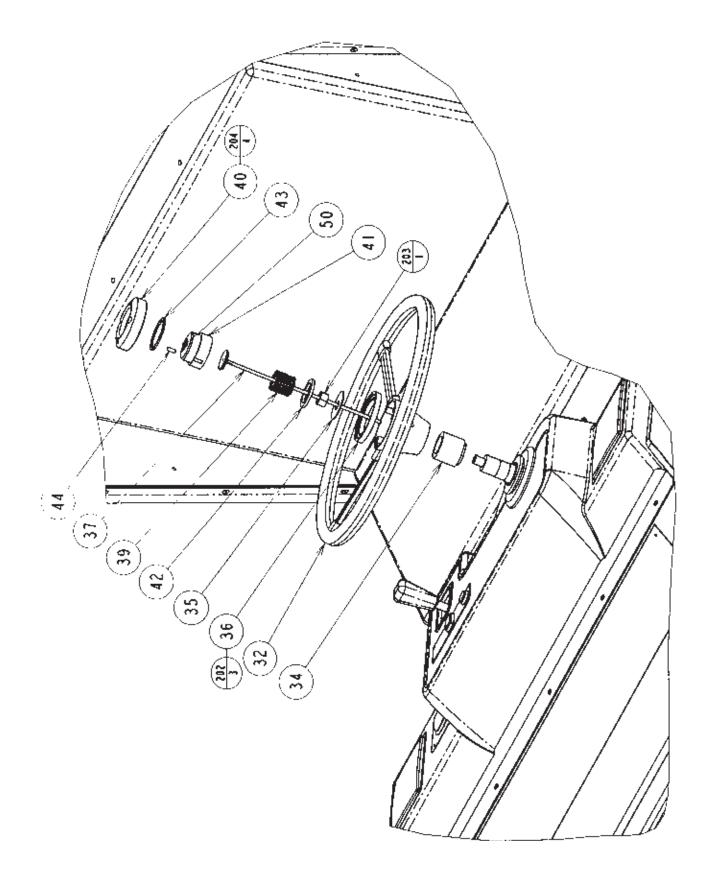
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	PTR-0551	PTV BASE	
2	SCR-1008	NUT PLATE FOR CASTER	
3	ARC-1006	LEG BRACKET	
4	117-5233	PLATE LEG BRACKET BLACK	
101	601-9377	CASTER FAI=75	
102	601-5699X	LEG ADJUSTER BOLT M16 X 75	
201	050-H01600-0B	HEX NUT BLK M16	
202	030-000630-SB	HEX BLT BLK W/S M6 X 30	
203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

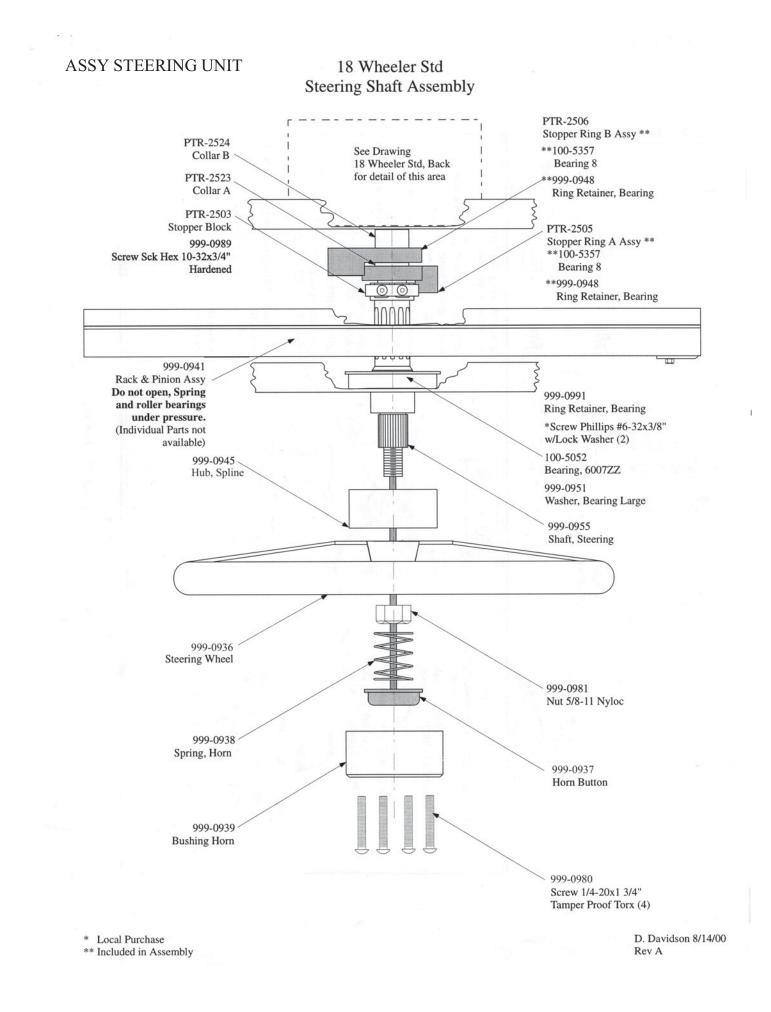
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	PTR-1070	ASSY PILLAR L	
2	PTR-1075	ASSY PILLAR R	
3	PTR-1080	ASSY BACK PANEL	
4	PTR-1100	ASSY SUB-CABI	
5	PTR-1200	ASSY COINCHUTE TOWER	
6	PTR-1500	ASSY MAIN BILLBOARD	
7	PTR-2100	ASSY HIGH/LOW/BACK SHIFTER	
8	PTR-2500	ASSY HANDLE MECHA	
9	PTR-4000	ASSY MAIN BD	
10	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	
14	SPG-2200	ASSY ACCEL & BRAKE	
15	PTR-1001	SEAT	
16	PTR-1002	SEAT BACK	
17	PTR-1004	END CAP	
18	PTR-1005	CONTROL PANEL COVER	
19	PTR-1006	CONT PNL PLATE	
20	PTR-1007	DESIGN PIPE	
21	PTR-1008	STEP	
22	PTR-1010	SPKR BRKT	
23	PTR-1011	PLATE HORN BUTTON	
24	PTR-1013	LID TOP FRONT	
25	PTR-1014	WIRE COVER	
26	PTR-1015	ACCEL BRKT	
27	PTR-1016	END CAP BRKT UPPER	
28	PTR-1018	PIPE JOINT BRKT	
29	PTR-1019	BACK PANEL COVER	
30	PTR-1020	PILLAR CABI BRKT UPPER	
31	PTR-1021	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	
36	PTR-2509	COLLAR STEERING HUB	
37	PTR-2510	ROD HORN BUTTON	
38	PTR-1060	AC UNIT	
39	PTR-2512	COMP SPRING HORN BUTTON	
40	PTR-2513	FRM HORN BUTTON	
41	PTR-2514	CAP HORN BUTTON	
42	PTR-2525	CUSHION L	
43	PTR-2526	CUSHION U	
44	PTR-2527	PIN HORN BUTTON	
45	PTR-1023	PIPE SAFETY	
46	440-WT0192-EG	TAG W LAMP ENG	
47	PTR-1022	TOWER SHELF	
48	PTR-1024	STICKER BACK PANEL COVER	
49	PTR-1026-01	PLAY INSTR SH PTR ENG A	OTHER
	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

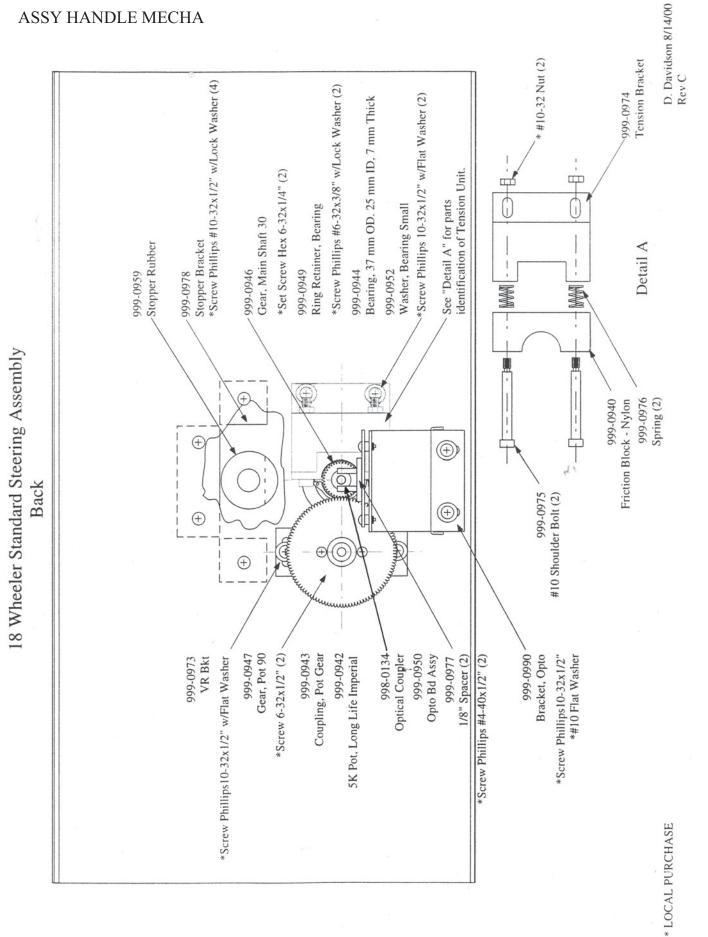
6 ASSY MAIN CABINET (PTR-1000)

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 8.5-22 X 1.6 208 068-852216 FLT WSHR 8.5.5-20 X 1.6 209 000-T00550-0B M SCR TH BLK M5 X 50 210 011-T03512 TAP SCR TH 3.5 X 12 211 000-00408-W M SCR PH W/FS M4 X 8 212 068-552016-0B FLT WSHR BLK 6.5-20 X 1.6 213	ITEM NO.	PART NO.	DESCRIPTION	NOTE
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 201 000-700412-0C M SCR TH CRM M4 X 12 202 000-P00420 M SCR TH CRM M4 X 20 203 050-H01600 HEX NUT M16 204 000-700425-0C M SCR TH CRM M4 X 25 205 030-000840-SB HEX BLT W/S BLK M6 X 40 206 066-F00600-0B FLT WSHR BLK M6 207 030-000840-SB HEX BLT W/S BLK M8 X 40 208 068-852216 FLT WSHR 8.5-20 X 1.6 209 000-700550-0B M SCR TH BLK M5 X 50 210 011-703512 TAP SCR TH 3.5 X 12 211 000-P000530 M SCR PH M/S X 30 212 068-552016-0B FLT WSHR BLK 4.5-520 X 1.6 213	101	130-5096	ASSY SERVO SPEAKER BOX	
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 TH CRM M4 X 20 203 950-H01600 HEX NUT M16 204 000-T00425-0C M SCR TH CRM M4 X 25 205 930-000640-SB HEX BLT W/S BLK M6 X 40 206 606-F0060-0B FLT WSHR BLK M6 207 030-000840-SB HEX BLT W/S BLK M8 X 40 208 068-852216 FLT WSHR 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 6.5-20 X 1.6 213 030-000825-S HEX BOLT W/S M8 X 25 214 068-652016-0B FLT WSHR BLK M4 X 16 <t< td=""><td></td><td></td><td></td><td></td></t<>				
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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 TH CRM M4 X 12 203 050-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 40 206 066-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 3.5 X 12 210 011-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 6.5-20 X 1.6 213 030-000825-SB HEX BLT W/S M8 X 25 216 000-P00530 M SCR PH M5 X 30 217 060-S00500 SPR WSHR M5 218 068-441616-0B FLT WSHR BLK 44-16 X 1.6 <t< td=""><td></td><td></td><td></td><td></td></t<>				
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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 BLK M6 X 30 225 000-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 WR BUTTON				
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-T00416-0C M SCR TH BLK M4 X 30 224 000-T00416-0C M SCR TH BLK M6 X 30 225 000-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				
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 X 1.6 222 000-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 BLK M6 X 30 225 000-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				
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 BLK 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				
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 BLK M6 X 30 225 000-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				
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				
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 KOR SUB 303 PTR-60034 WIRE HARN VR BUTTON				
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				
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 VR BUTTON				
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 VR BUTTON				
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 VR BUTTON				
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 VR BUTTON				
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				
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				
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				
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				
301PTR-60021WIRE HARN BASS302PTR-60028WIRE HARN HORN SUB303PTR-60034WIRE HARN VR BUTTON				
302PTR-60028WIRE HARN HORN SUB303PTR-60034WIRE HARN VR BUTTON	229	000-F00400	FLI WSHK M4	
303PTR-60034WIRE HARN VR BUTTON	301	PTR-60021	WIRE HARN BASS	
	302	PTR-60028	WIRE HARN HORN SUB	
304 PTR-60033 WIRE HARN MOTOR CONTROL	303	PTR-60034	WIRE HARN VR BUTTON	
	304	PTR-60033	WIRE HARN MOTOR CONTROL	

(D-4/4)

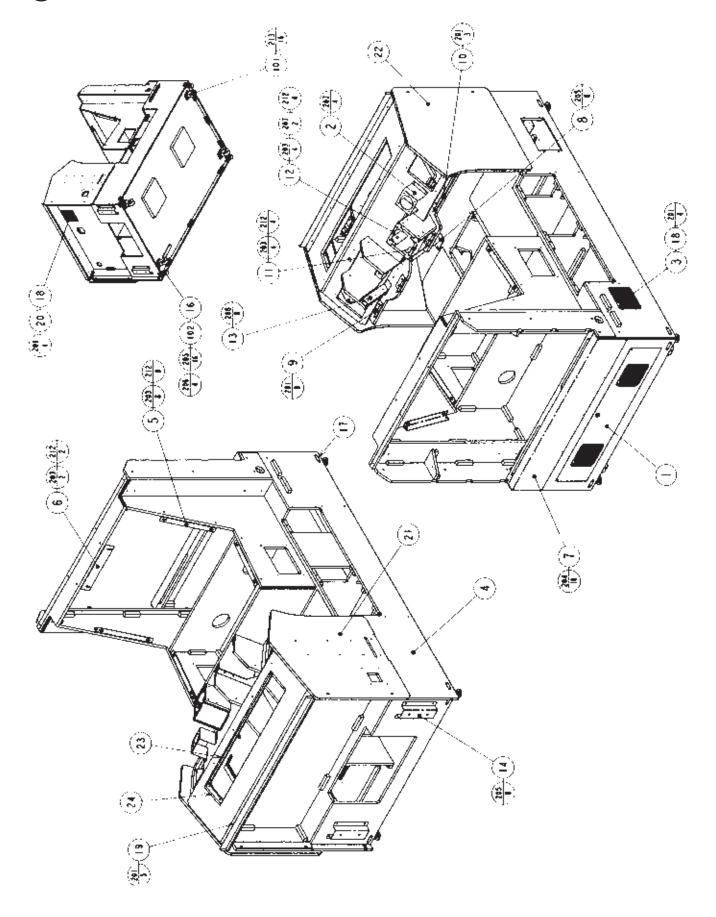


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(7) ASSY SUB-CABI (PTR-1100)

(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	
11	PTR-1111	SHIFTER BRKT A	
12	PTR-1112	SHIFTER BRKT B	
13	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	

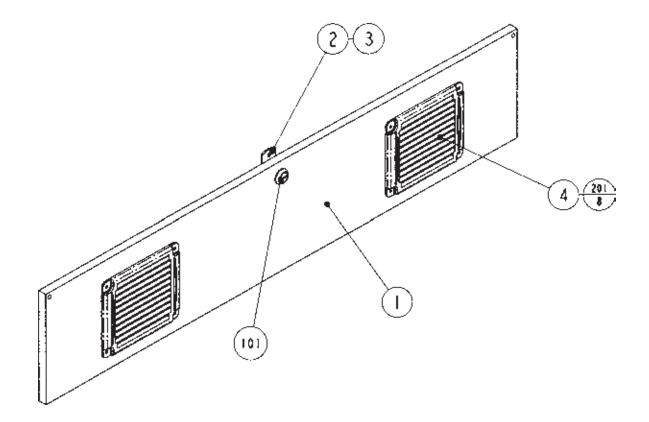
(7) ASSY SUB-CABI (PTR-1100)

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)



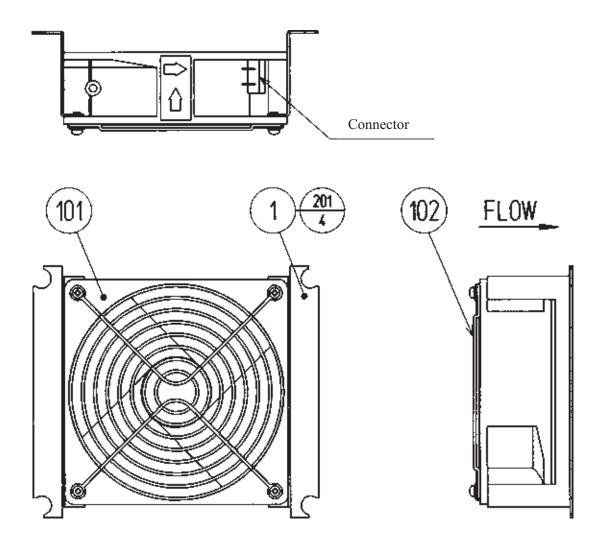
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1 2 3 4	PTR-1191 DP-1148X 117-0062 253-5460-01	BACK LID LKG TNG PLATE LOCK RETAINER AIR VENT BLACK	
101	220-5575	CAM LOCK MASTER W/O KEY	
201	000-T00416-0B	M SCR TH BLK M4 X 16	

(9) ASSY WIRE (PTR-6001)

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

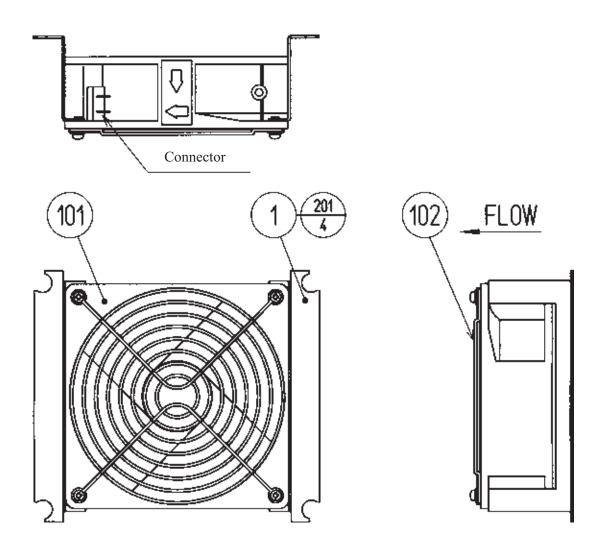
ITEM NO.	PART NO.	DESCRIPTION	NOTE
101	601-0460	PLASTIC TIE BELT 100 MM	
301	PTR-60018	WIRE HARN WOOFER 2	
302	PTR-60019	WIRE HARN SPEARKER 2	
303	PTR-60020	WIRE HARN VOLUME 2	
304	PTR-60024	WIRE HARN IO	
305	PTR-60025	WIRE HARN ANALOG	
306	PTR-60027	WIRE HARN DC DRIVE	
308	600-7009-4000	ASSY RGB CA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

(10) FAN UNIT (STR-1070)

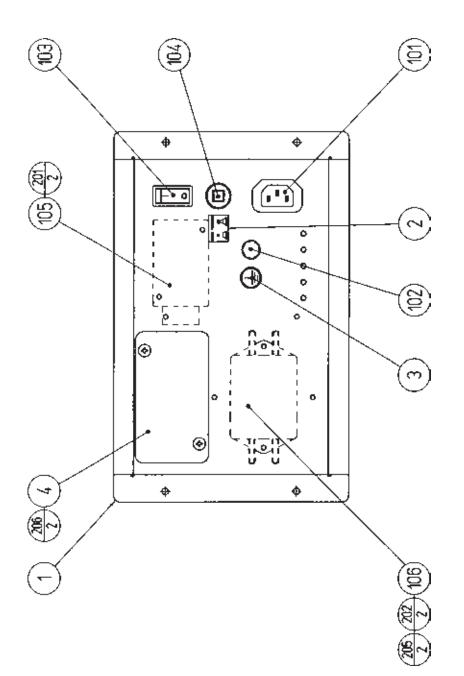


ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	105-5340-01	FAN BRKT LONG	
101 102	260-0011-02 601-8543	AXIAL FLOW FAN AC100V 50-60HZ FAN GUARD	
201	000-P00312-W	M SCR PH W/FS M3 X 12	

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

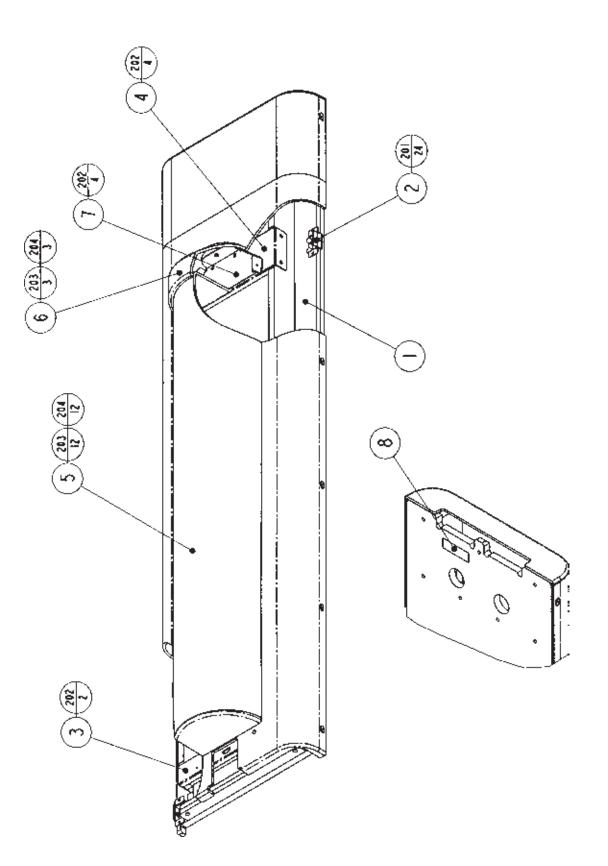


ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	105-5340-01	FAN BRKT LONG	
101 102	260-0011-02 601-8543	AXIAL FLOW FAN AC100V 50-60HZ FAN GUARD	
201	000-P00312-W	M SCR PH W/FS M3 X 12	

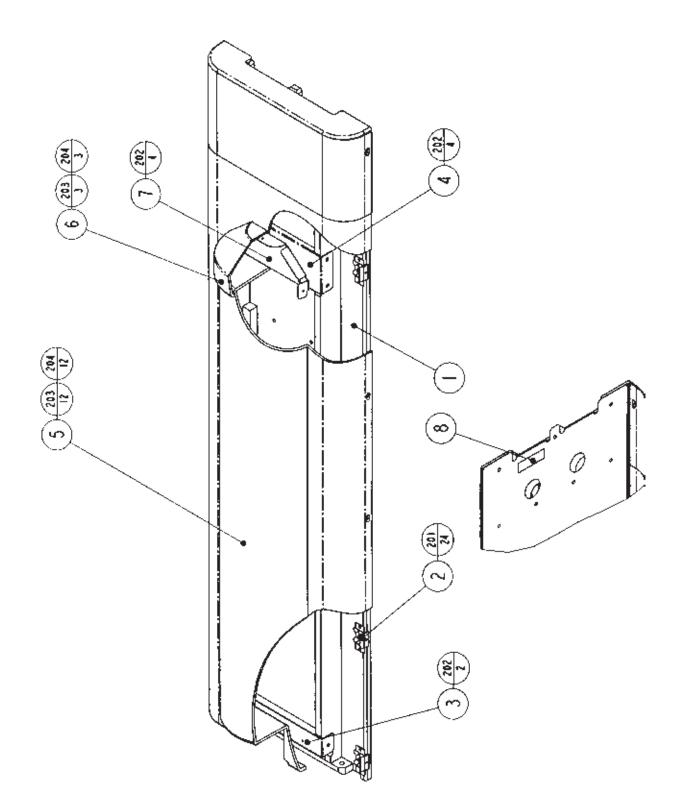


(12) AC UNIT (PTR-1060)

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 NOT USED	TAIWAN OTHERS
103	509-5453-91-V-B	SW ROCKER J8 V-B	•
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 NOT USED	TAIWAN OTHERS
309	PTR-60101	WIRE HARN EARTH AC UNIT	UTHERS
/	008-T00412-0B	TMP PRF SCR TH BLK M4 X 12	



ITEM NO.	PART NO.	DESCRIPTION	NOTE
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	
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	

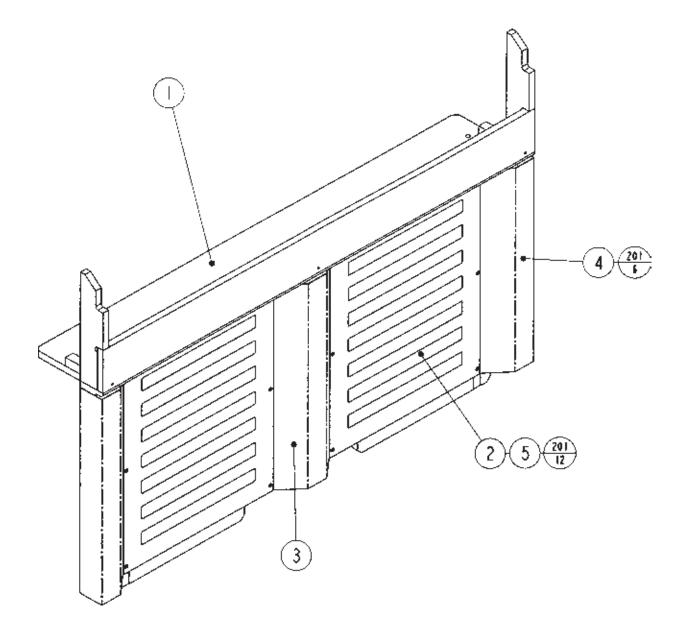


(14) ASSY PILLAR R (PTR-1075)

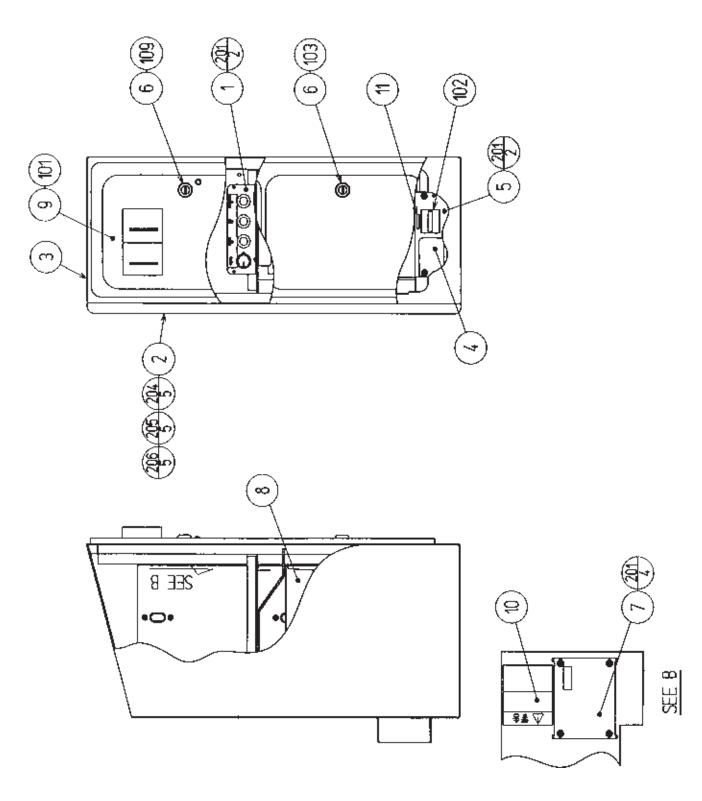
ITEM NO.	PART NO.	DESCRIPTION
1	PTR-1071	PILLAR BASE
2	PTR-1072	PILLAR COVER BRKT
3	PTR-1073	UPPER BRKT
4	PTR-1074	LOWER BRKT
5	PTR-1003	PILLAR COVER
6	PTR-1004	END CAP
7	PTR-1017	END CAP BRKT LOWER
101	280-0419	HARNESS LUG
201	011-P03512	TAP SCR PH 3.5 X 12
202	000-P00420-WB	M SCR PH W/FS BLK M4 X 20
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

NOTE

(15) ASSY BACK PANEL (PTR-1080)



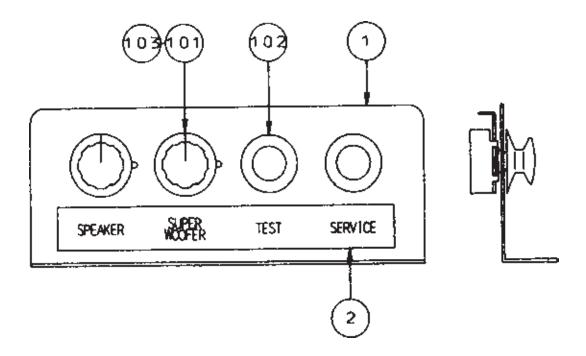
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	PTR-1081	BACK PANEL	
2	PTR-1082	DESIGN PLATE	
3	PTR-1083	DESIGN PILLAR	
4	PTR-1084	DESIGN SIDE PILLAR	
5	PTR-1085	STICKER GRILLE PATTERN	
201	000-T00416-0C	M SCR TH CRM M4 X 16	



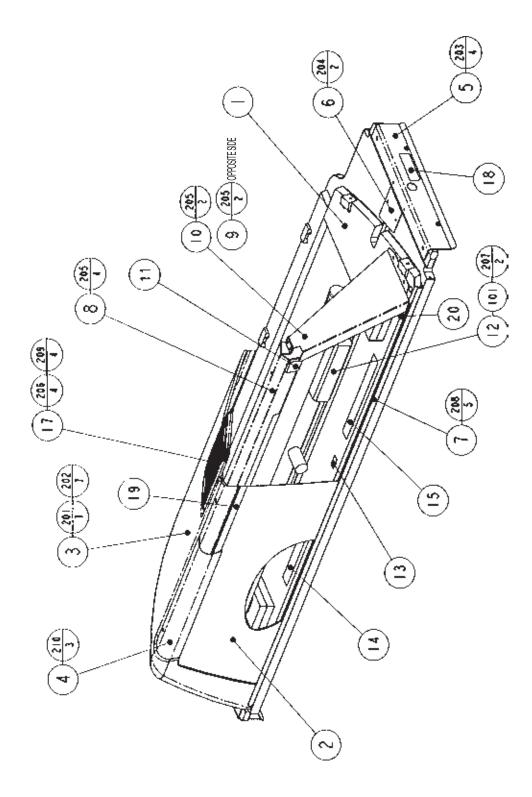
(16) ASSY COINCHUTE TOWER (PTR-1200)

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	220-5237-92-~	ASSY C.C 2DR ~	
	220-5482-91-~	ASSY C.C 2DR \sim	
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	
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	

(17) SW UNIT (INY-1180)

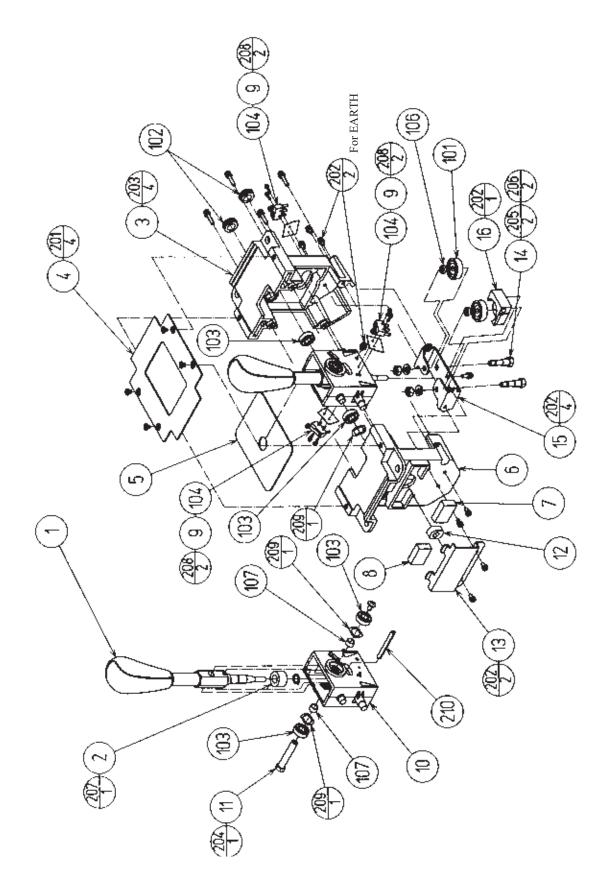


ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	INY-1181	SW BRKT	
2	421-8911	STICKER SW UNIT	
101	220-5179	VOL CONT B-5K OHM	
102	509-5028	SW PB 1M	
103	601-0042	KNOB 22 MM	
104	310-5029-D20	SUMITUBE F D 20 MM	
105	601-0460	PLASTIC TIE BELT 100 MM	
301	600-6609-32	WIRE HARN TEST & SERVICE	
302	600-6609-33	WIRE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



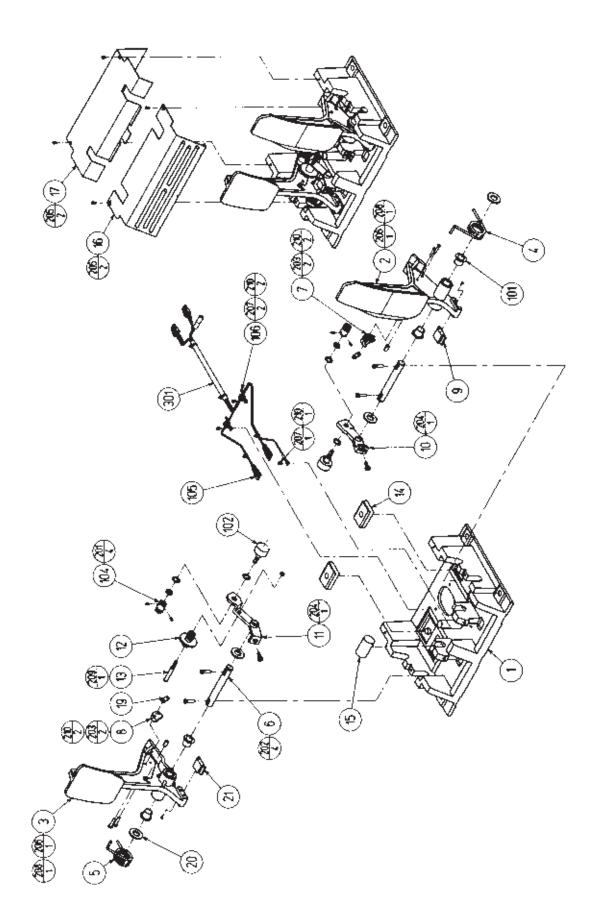
(18) ASSY MAIN BILLBOARD (PTR-1500)

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	



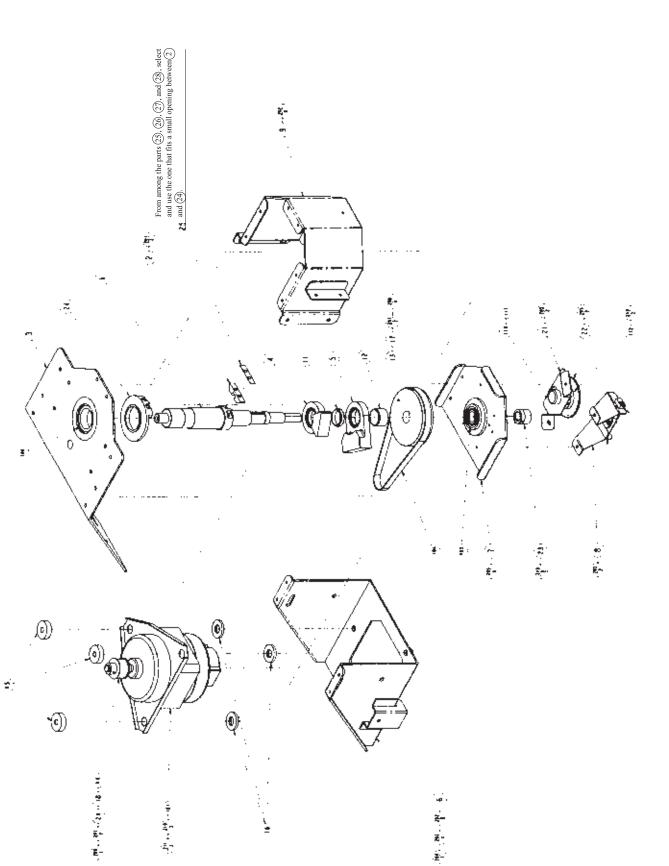
ITEM NO.	PART NO.	DESCRIPTION
1	SPG-2151	SHIFT KNOB
2	SPG-2152	STOPPER RUBBER
3	SPG-2153	FRONT BASE
4	SPG-2154	SLIDE COVER
5	SPG-2155	SLIDE PLATE
6	SPG-2156	REAR BASE
7	SPG-2157	RUBBER BLOCK 45
8	SPG-2158	RUBBER BLOCK 65
9	SPG-2159	INSULATOR SHEET
10	SPG-2160X	SHAFT CASE
11	SPG-2161	SHAFT BOLT
12	SPG-2162	CENTERING BLOCK
13	SPG-2163	RUBBER CASE
14	SPG-2164	ROLLER BOLT
15	PTR-2101	ROLLER SUPPORT
16	PTR-2102	GUIDE
101	100 5050	DE ADRIG DOLLED AS
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-\$00600	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

NOTE



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

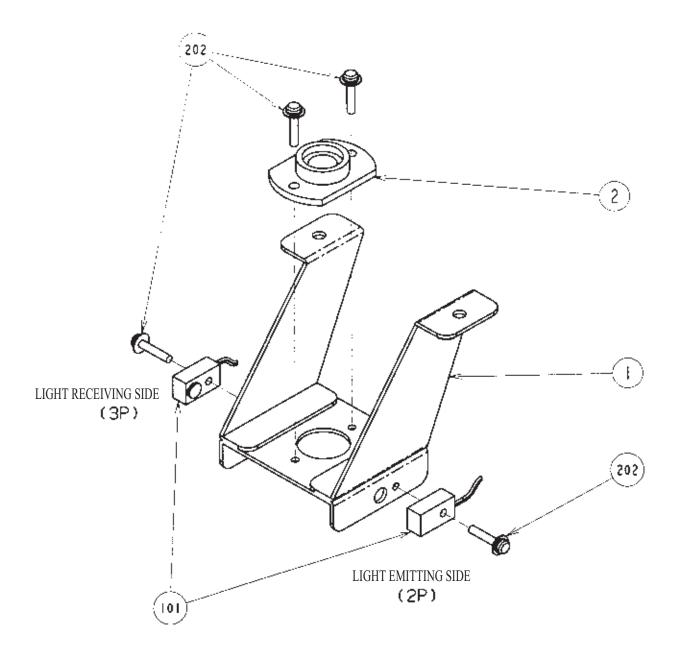
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	SPG-2201	BASE	
2	SPG-2202	ACCEL PEDAL	
3	SPG-2203	BRAKE PEDAL	
4	SPG-2204	ACCEL SPRING	
5	SPG-2205	BRAKE SPRING	
6	SPG-2206	SHAFT	
7	SPG-2207	ACCEL GEAR	
8	SPG-2208	BRAKE GEAR	
9	SPG-2209	NEUTRAL STOPPER	
10	SPG-2210	VR PLATE ACCEL	
11	SPG-2211	VR PLATE BRAKE	
12	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	



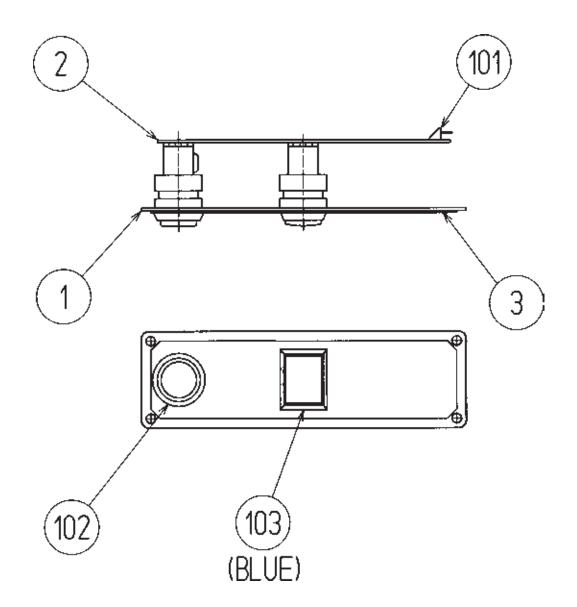
(21) ASSY HANDLE MECHA (PTR-2500)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	PTR-2502	HANDLE SHAFT	
2	PTR-2503	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	060-F00800	FLT WSHR M8	
213	028-A00304-P	SET SCR HEX SKT CUP P M3 X 4	
301	PTR-60029	WIRE HARN HORN MAIN	
302	PTR-60030	WIRE HARN HANDLE	

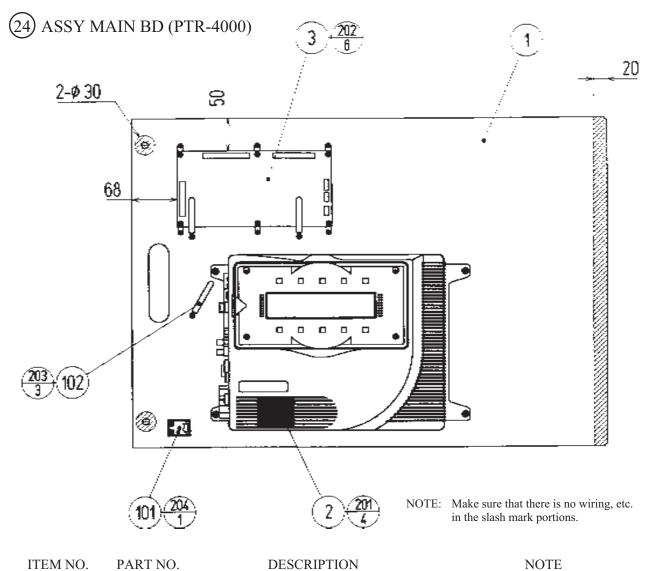
25) SENSOR UNIT (PTR-2550)



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	

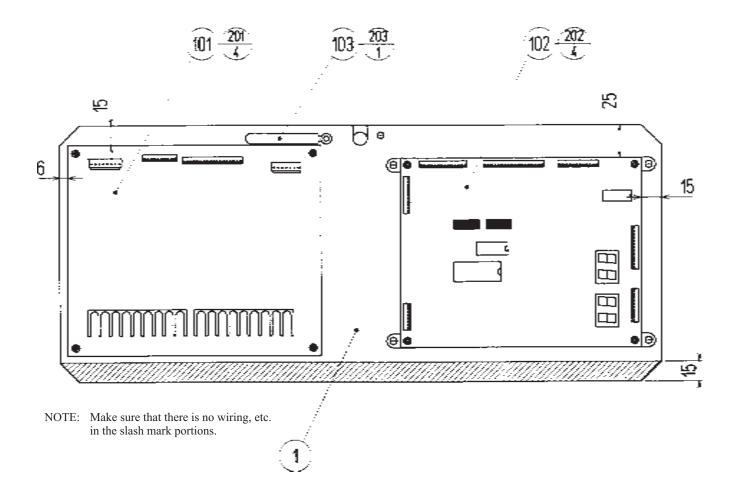


ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	APC-2151X	VR BUTTON BRKT	
2	171-6478B	PC BD LIGHTING SWX5	
3	PTR-2601	STICKER VR BUTTON	
101	212-5205-12	CONN JST M 12P RTA	
102	509-5560-Y	PB SW W/L 6V 1L Y	
103	509-5561-S	PB SW W/L 6V 5L S	

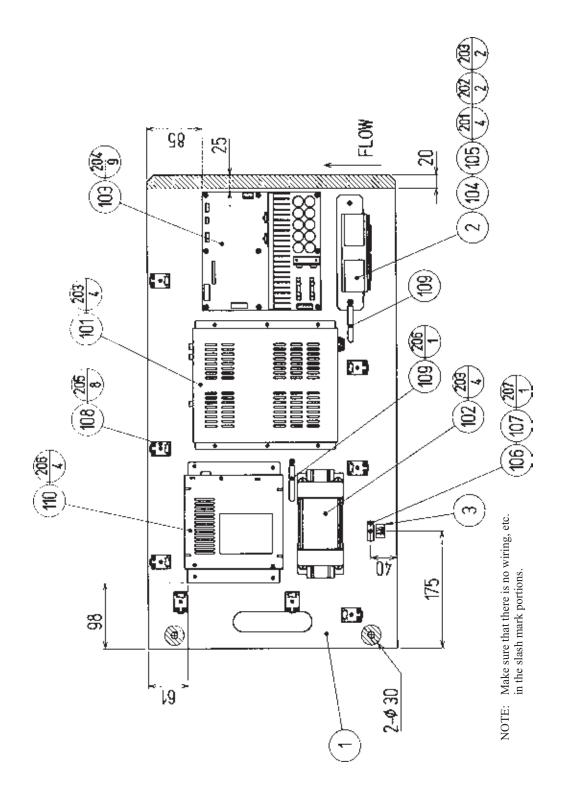


IILMINO.	1711(11(0))	DESCRIPTION	NOIL
1	PTR-4001	MAIN BD BASE	
2	840-0023D-02	ASSY CASE NAO PTR EXP	OTHERS
	840-0023D-04	ASSY CASE NAO PTR AUS	AUSTRALIA
	840-0023D-03	ASSY CASE NAO PTR KOR	KOREA
	840-0023D-01	ASSY CASE NAO PTR USA	USA
3	837-13844	I/O CONTROL BD 2 FOR JVS FRI	
101	280-5009-01	CORD CLAMP 21	
102	280-0419	HARNESS LUG	
103	601-0460	PLASTIC TIE BELT 100 MM	
201	000-P00416-W	M SCR PH W/FS M4 X 16	
202	011-T00316	TAP SCR TH 3 X 16	
203	011-T03512	TAP SCR TH 3.5 X 12	
204	011-F00312	TAP SCR FH 3 X 12	
301	600-7141-050	CABLE JVS TYPE A-B 050CM	
302	600-7159-034	WIRE HARN JVS PWR 034CM	
303	PTR-60017	WIRE HARN SOUND OUT	
304	PTR-60026	WIRE HARN DC IO	

(25) ASSY CONTROL BD (PTR-4100)

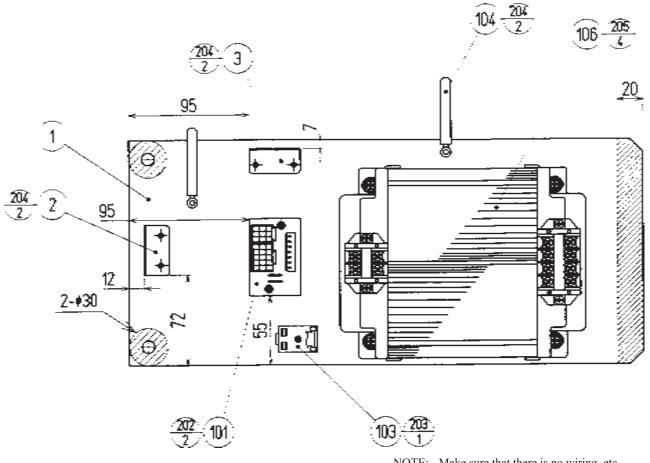


ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	PTR-4101	CONTROL BD BASE	
101	838-12912-01	SERVO MOTOR DRIVE BD NEW	
102	838-13992	DRIVE BD PTR	
103	280-0419	HARNESS LUG	
201	011-P00325	TAP SCR PH 3 X 25	
202	011-T03516	TAP SCR TH 3.5 X 16	
203	011-T03512	TAP SCR TH 3.5 X 12	
301	PTR-60035	WIRE HARN AC EXT	
302	PTR-60036	WIRE HARN DC EXT	



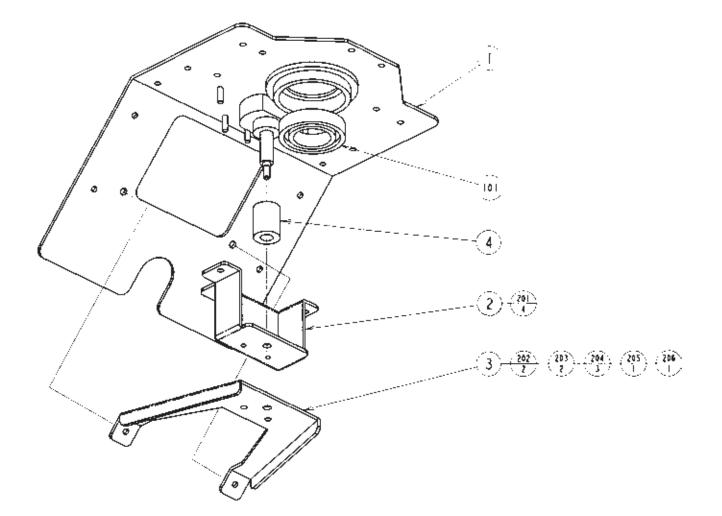
(26) ASSY AMP BD (PTR-4200)

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	



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	PTR-2533	BASE HANDLE MECHA V2	
2	PTR-2534	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

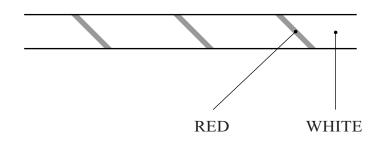
Wires other than those of any of the above 5 single colors will be displayed by 2 alphanumeric characters.

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.



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