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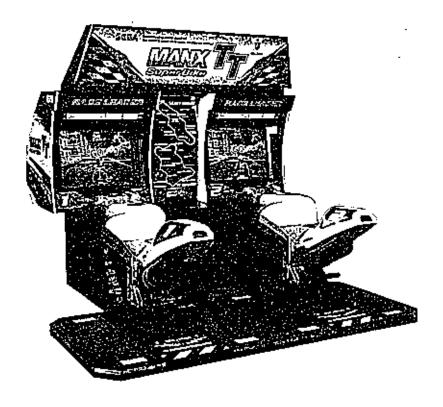
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TWIN TYPE

OWNER'S MANUAL





- Before using this product, read this OWNER'S MANUAL carefully to understand the contents herein stated.
- After reading this manual, be sure to keep it available nearby the product or elsewhere convenient for referring to it anytime when necessary.

SEGA ENTERPRISES, LTD.

MANUAL NO. 420 - 6207 - 03

BEFORE USING THE PRODUCT, BE SURE TO READ THE FOLLOWING:

To maintain the safety:

To ensure the safe usage of the product, be sure to read the following before using the product. The following instructions are intended for the users, operators and the personnel in charge of the operation of the product. After carefully reading and sufficiently understanding the warning displays and cautions, handle the product appropriately. Be sure to keep this manual nearby the product or elsewhere convenient for referring to it when necessary.

Herein, explanations which require special attention are enclosed with dual lines. Depending on the potentially hazardous degrees, the terms of WARNING!, CAUTION! and IMPORTANT! are used. Be sure to understand the contents of the displays before reading the text.



Indicates that mishandling the product by disregarding this warning will cause a potentially hazardous situation which can result in death or serious injury.



Indicates that mishandling the product by disregarding this caution will cause a potentially hazardous situation which can result in personal injury and or material damage.



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

For the safe usage of the product, the following symbol marks are used:



Indicates "HANDLE WITH CARE." In order to protect the human body and equipment, this display is attached to places where the Owner's Manual and or Service Manual should be referred to.



Indicates a "Protective Earth Terminal." Before operating the equipment, be sure to connect it to the Ground.

- O Be sure to turn off power before working on the machine.

 To prevent electric shock, be sure to turn off power before starting the work in which the worker touches the interior of the product. If the work is to be performed in the power-on status, the Instruction Manual herein always states to that effect.
- O Be sure to ground the Earth Terminal (this, however, is not required in the case where a power cord with earth is used).

 This product is equipped with the Earth Terminal. When installing the product, Connect the Earth Terminal to the "accurately grounded indoor earth terminal" by using an earth wire. Unless the product is grounded appropriately, the user can be subject to electric shock. After performing repair, etc. for the Control equipment, ensure that the Earth Wire is firmly connected to the Control equipment.
- O Ensure that the Power Supply used is equipped with an Earth Leakage Breaker.

This product does not incorporate the Earth Leakage Breaker. Using a power supply which is not equipped with the Earth Leakage Breaker can cause a fire when earth leakage occurs.

O Be sure to use fuses which meet the specified rating.
Using fuses exceeding the specified rating can cause a fire and electric shock.

 Specification changes (removal of equipment, conversion and addition) not designated by SEGA are not allowed.

The parts of the product include warning labels for safety, covers for personal protection, etc. It is very hazardous to operate the product by removing parts and or modifying the circuits. Should doors, lids and protective parts be damaged or lost, refrain from operating the product, and contact the distributor, etc. where the product was purchased from.

 Ensure that the product meets the requirements of appropriate Electrical Specifications.

Before installing the product, check for Electrical Specifications. SEGA products have a nameplate on which Electrical Specifications are described. Ensure that the product is compatible with the power supply voltage and frequency requirements of the location. Using any Electrical Specifications different from the designated Specifications can cause a fire and electric shock.

O Install and operate the product in places where appropriate lighting is available, allowing warning labels to be clearly read.

To ensure safety for the customers, labels and printed instructions describing potentially hazardous situation are applied to places where accidents can be caused. Ensure that where the product is operated has sufficient lighting allowing the warnings to be read. If any label is peeled off, apply it again immediately.

 When handling the Monitor, be very careful. (Applies only to the product w/monitor).

Some of the monitor (TV) parts are subject to high tension voltage. Even after turning off power, some portions are still subject to high tension voltage sometimes. Monitor repair and replacement should be performed only by those technical personnel who have knowledge of electricity and technical expertise.

In the case where commercially available monitors and printers are used in this product, only the contents relating to this product are explained herein. Some commercially available equipment has functions and reactions not stated in this manual. Read this manual together with the specific Instruction Manual of such equipment.

- Descriptions herein contained may be subject to improvement changes without notice.
- The contents described herein are fully prepared with due care. However, should any
 question arise or errors be found, please contact SEGA.

INSPECTIONS IMMEDIATELY AFTER TRANSPORTING THE PRODUCT TO THE LOCATION.

Normally, at the time of shipment, SEGA products are in a status allowing for usage immediately after transporting to the location. Nevertheless, an irregular situation may occur during transportation. Before turning on power, check the following points to ensure that the product has been transported in a satisfactory status.

| ٥ | Are there any dented portions or defects (cuts, etc.) on the external surfaces of the cabinet? |
|---|--|
| | Are Casters and Leg Adjusters damaged? |
| | Do the power supply voltage and frequency requirements meet with those of the location? |
| Ō | Are all wiring connectors correctly and securely connected? Unless connected in the correct direction, connector connections can not be made accurately. Do not insert |
| | connectors forcibly. |
| | Are all IC's of each IC BD firmly inserted? |
| | Do power cords have cuts and dents? |
| | Do the fuses used meet specified rating? Is the Circuit Protector in an energized status? |
| | Are such units as Monitors, Control equipment, IC BD, etc. firmly secured? Are all Earth Wires connected? |
| | Are all accessories available? |
| | Can all Doors and Lids be opened with the Accessory keys? Can Doors and Lids be firmly closed? |

TABLE OF CONTENTS

| | INTRODUCTION OF THE OWNER'S MANUAL | |
|------|---|---------------|
| 1. | HANDLING PRECAUTIONS | 1~2 |
| | PREVENTION OF COUNTERFEITING AND CONVERSION | |
| | PRECAUTIONS CONCERNING INSTALLATION LOCATION | |
| | NAME OF PARTS | 6 |
| | ACCESSORIES | _ |
| | ASSEMBLING AND PRECAUTIONS TO BE HEEDED WHEN | • |
| | MOVING THE MACHINE | 8 ~17 |
| 7. | OPERATION | |
| | EXPLANATION OF TEST AND DATA DISPLAY | |
| ٠. | 8-1 SWITCH UNIT | |
| | 8-2 TEST MODE | |
| | 8-3 MEMORY TEST | |
| | 8–4 INPUT TEST | |
| | | |
| | 8-5 SOUND TEST | |
| | 8-6 C.R.T. TEST | |
| | 8-7 GAME ASSIGNMENTS | |
| | 8-8 COIN ASSIGNMENTS | |
| | 8–9 BOOKKEEPING | |
| | 8-10 BACKUP DATA CLEAR | • |
| _ | 8-11 OUTPUT TEST | |
| 9. | HANDLE MECHANISM | |
| | 9-1 THROTTLE/BRAKE V.R. ADJUSTMENT | |
| | 9-2 THROTTLE/BRAKE V.R. REPLACEMENT | |
| | 9-3 GREASING | 37 |
| | 9-4 SPRING REPLACEMENT | 37 |
| 10. | BIKE MECHA | 38~39 |
| | 10-1 VOLUME (V.R.) REPLACEMENT | 38 |
| | 10-2 GREASING | 39 |
| 7 | 10-3 REPLACEMENT OF BANK GUARD | 39 |
| 11. | COIN SELECTOR | |
| | MONITOR ADJUSTMENTS | |
| | REPLACEMENT OF FLUORESCENT LAMP, AND LAMPS | |
| | 13-1 FLUORESCENT LAMP REPLACEMENT | 45 |
| | 13-2 LAMP REPLACEMENT. | 45 |
| 1./ | PERIODIC INSPECTION TABLE | |
| | TROUBLESHOOTING | · · |
| | GAME BOARD | 49~50 |
| 10. | 16—1 TAKING OUT THE GAME BD. | |
| | | |
| 4 79 | 16-2 COMPOSITION OF GAME BOARD | |
| | DESIGN RELATED PARTS | |
| ۱۵. | COMMUNICATION PLAY | |
| | 18-1 INSTALLATION PRECAUTIONS | |
| | 18-2 CONNECTING THE COMMUNICATION CABLES | |
| | 18-3 SETTINGS FOR COMMUNICATION PLAY | 57 |
| | 18-4 CAUTIONS TO BE HEEDED WHEN USING THE TEST MODE | 57 |
| | PARTS LIST | |
| | WIRE COLOR CODE TABLE | |
| 21. | WIRING DIAGRAM | $107 \sim 10$ |

SPECIFICATIONS

Installation space : 2,383 mm (W) \times 2,068 mm (D) (93.8 in. \times 81.4 in.)

Height : 2,015 mm (79,3 in.)

Weight : Approx. 470 kg. (1,036 lbs.)
Power, maximum current : 615W 6.9A (AC 110V 50 Hz AREA)
613W 6.8A (AC 110V 60 Hz AREA)

574W 6.2A (AC 120V 60 Hz AREA) 623W 3.7A (AC 220V 50 Hz AREA) 589W 3.5A (AC 220V 60 Hz AREA) 613W 3.3A (AC 240V 50 Hz AREA)

610W 3.3A (AC 240V 60 Hz AREA)

For TAIWAN

Power, current : 600W 6.9A(MAX.) 450W 5.GA(MIN.)

MONITOR : 29 INCH MONITOR × 2

NOTE: Descriptions in this manual are subject to change without prior notice.

INTRODUCTION OF THE OWNER'S MANUAL

SEGA ENTERPRISES, LTD., supported by its high electronic technology of LSIs, microprocessors, etc. and a wealth of experience, has for more than 30 years been supplying various innovative and popular game machines to the world market. 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 MANX TT TWIN TYPE, a new SEGA product.

This manual is intended for those who have knowledge of electricity and technical expertise especially in ICs, CRTs, microprocessors, etc. Carefully read this manual to acquire sufficient knowledge before working on the machine. Should there be a malfunction, non-technical personnel should under no circumstances touch the interior system. Should this Owner's Manual be lost, it can be purchased by placing an order with the following or where the product was purchased from.

SEGA ENTERPRISES, INC. (U.S.A.)/CUSTOMER SERVICE 45133 Industrial Drive, Fremont, California 94538, U.S.A.

Phone: (415) 802-3100 Fax: (415) 802-1754

SEGA AMUSEMENTS EUROPE LIMITED/AMUSEMENT MACHINE SALES DIVISION

Unit 2 Industrial Estate, Leigh Close, New Malden, Surrey KT3 3NL, England Phone : (081) 336-2256

Fax : (081) 336-2256

SEGA SOUTHERN EUROPE LIAISON OFFICE

Calle Vallellano, 19-23, 1° A, 37008-Salamanca, Spain

Phone : (923) 265893 Fax : (923) 265913

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.



- Before performing the work, be sure to turn power off. Performing the work without turning power off can cause an electric shock or short circuit.
- To avoid electric shock or short circuit, do not insert or pull out the plugquickly.
- Do not expose Power Cords and Earth Wires on the surface, (floor, passage, etc.). If exposed, the Power Cords and Earth Wires are susceptible to damage. Damaged cords and wires can cause electric shock or malfunctioning.
- To avoid causing a fire or electric shock, do not put things on or damage Power Cords.
- When or after installing the product, do not unnecessarily pull the power cord. If damaged, the power cord can cause a fire or electric shock.
- Be sure to perform grounding appropriately. Inappropriate grounding can cause an electric shock.
- Be sure to use fuses meeting specified rating. Using fuses exceeding the specified rating can cause a fire or electric shock.
- Completely make connector connections for IC BD and others. Insufficient insertion can cause an electric shock.
- To avoid causing a fire or electric shock, do not make Specification changes by removing, converting and making additions unless otherwise designated by SEGA.
- Be sure to perform periodic maintenance inspections herein stated.



- Also, for the IC board circuit inspections, only the logic tester is allowed.
 The use of a multiple-purpose tester is not permitted, so be careful in this regard.
- When cleaning the CRT surfaces, use a soft, dry cloth. Do not apply chemicals such as thinner, benzine, etc.
- When you touch the monitor (CRT) at the time the power is turned on or off, you might slightly feel electricity. This, however, is caused by static electricity and would not adversely affect the human body.

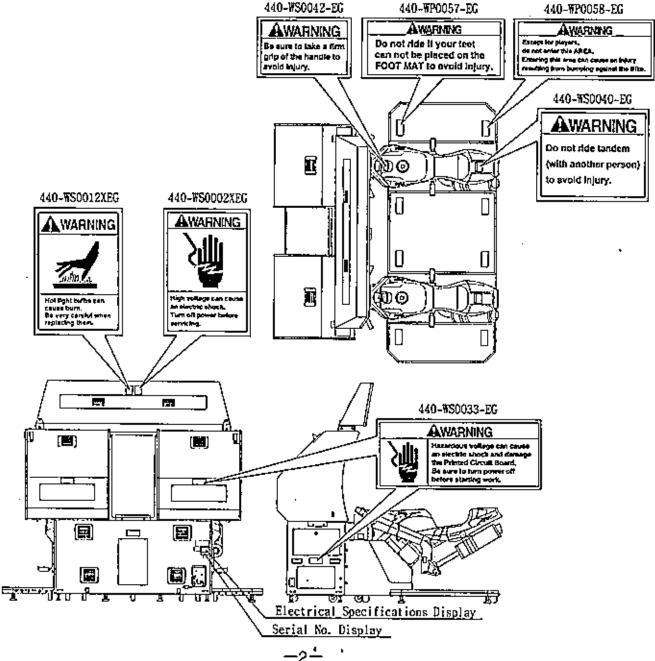


CONCERNING THE STICKER DISPLAY

SEGA product has Stickers describing the product manufacture No. (Serial No.) and Electrical Specifications. Also it has a Sticker describing where to contact for repair and for purchasing parts. When inquiring about or asking for repair, mention the Serial No. and Name of Machine indicated on the Sticker. The Scrial No. indicates the product register. Identical machines could have different parts depending on the date of production. Also, improvements and modifications might have been made after the publication of this Manual. In order to meet the above situations, mention the Serial No. when contacting the applicable places.

CONCERNING WARNING DISPLAYS

SEGA product has warning displays on Stickers, Labels and or printed instructions adhered / attached to or incorporated in the places where a potentially hazardous situation can arise. The warning displays are intended for accident prevention for the customers and for avoiding hazardous situation relating to maintenance and servicing work. There are some portions in the Cabinet, which are subject to high tension voltage, etc. where accidents can be caused only by touching. When performing the servicing work, be very careful of the warning displays. Especially, any complex repair and replacement work not mentioned herein, should be performed by those technical personnel who have knowledge of electricity and technical expertise. For the prevention of accidents, caution any customer whose act runs counter to the warnings, as to the effect that he must stop the act.



2. PREVENTION OF COUNTERFEITING AND CONVERSION

▶ LABELLING ◀

To prevent counterfeits and conversions, the following labels are put on all the SEGA products. When handling such goods, be sure to confirm the labels. They are used to prevent illegal acts such as the unauthorized copying of the products and the printed circuit boards thereof or earrying on business by manufacturing similar merchandise or by converting, selling or using such products or printed circuit boards.

ORIGINAL SEAL

The following seal is put on the machines manufactured by SEGA.



▶ COPYRIGHT NOTICE ◀

This SEGA product has the copyright notice as follows:

© SEGA 1995

This signifies that this work was disclosed in 1995 and is the property of SEGA ENTERPRISES, LTD,

3. 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 35°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 Electric 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 10A or higher (AC single phase 100~120V), and 7A or higher (AC 220~240V). 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 10A 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.



- Note that for transporting the machine into the location's building, the minimum necessary dimensions of the opening (of doors, etc.) are 0.9m.
- For the operation of this machine, secure a minimum area of 1.3m (W) X2.6m (D).

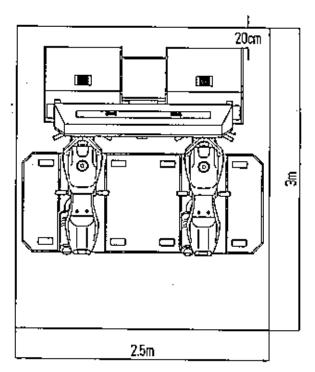


FIG.3

Electric current consumption-

MAX. 6.9A (AC 110V 50 Hz)

MAX. 6.8A (AC 110V 60 Hz)

MAX. 6.2A (AC 120V 60 Hz)

MAX. 3.7A (AC 220V 50 Hz)

MAX. 3.5A (AC 220V 60 Hz)

MAX. 3.3A (AC 240V 50 Hz)

MAX. 3.3A (AC 240V 60 Hz)

MAX. 6.9A (For TAIWAN)

4. NAME OF PARTS

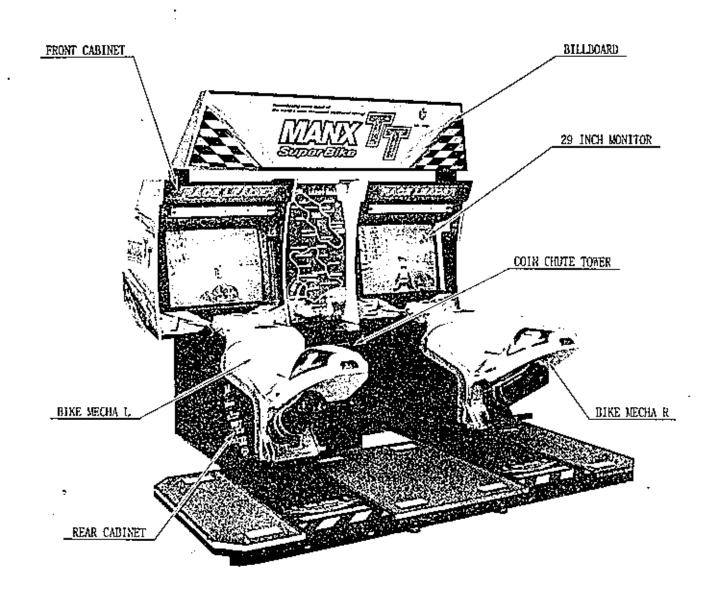


FIG. 4 OVERVIEW

TABLE 4

| | Width | Length | Heigh | t (mm.) | Weight (kg.) |
|----------------|----------------------------|--------|--------|---------|--------------|
| FRONT CABINET | 1,965(1,540:When closed) > | 900 | × 2,01 | 5 | Approx. 270 |
| REAR CABINET | 2,383 > | 1,440 | × 88 |) | Approx. 200 |
| When assembled | 2,383 > | 2,068 | × 2,01 | 5 | Approx. 470 |

5. ACCESSORIES

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

TABLE 5 ACCESSORIES

| Part No. | Oty. | DESCRIPTION | Note | |
|-----------------------|------------------------------|--|-----------------------------------|--|
| 420-6207-03 | 1 | OWNERS MANUAL MANX TT TWIN ENG | | |
| 220-5381 2 KEY MASTER | | KEY MASTER FOR 220-5380 | For opening/closing the doors | |
| | 2. KEY | | For the CASHBOX DOOR | |
| - | | VOL CONT B-5K OHM | For spare, refer to Section 9. | |
| | | VOL CONT B-5K OHM | 1 | |
| 514-5036-7000 | ı | FUSE 6.4 ¢ ×30 7000mA 125V | For spare, refer to Section 15. | |
| 421-9041 | 1 | 1 STICKER No. 1~8 BIKE TTR TWIN L For communications | | |
| 421-9042 | 1 | STICKER No. 1-8 BIKE TTR TWIN R | | |
| 421-9014 | 1 | 1 STICKER FRONT No. 1~8 | | |
| TTR-0015 | 2 | HOLE PLATE | | |
| 310-5050-220110 | 220110 1 FLEX TUBE | | | |
| 310-5051-22 | 2 | CONN 22 | 1 . | |
| 600-6664-02 | 1 WIRE HARN EARTH W/LUG M6 | | Used for installation, see Sec 6. | |

6. ASSEMBLING AND PRECAUTIONS TO BE HEEDED WHEN MOVING THE MACHINE



Perform the assembly work by following the procedure herein stated.
 Failing to comply with the instructions can cause an electric shock.

 Assembling should be performed as per this manual. Since this is a complex machine, erroneous assembling can cause an electric shock or damage to the machine resulting in not functioning as per specified performance.

When assembling, be sure to perform the work by plural persons. Depending on the assembly work, there are some cases in which performing the work by a single person can cause personal injury or parts damage.

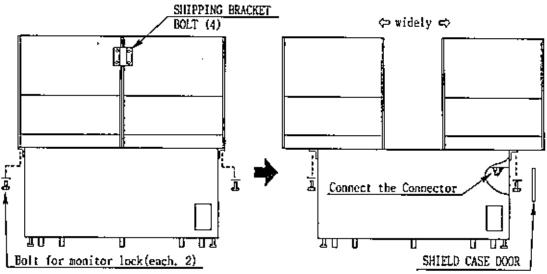
When carrying out the assembly work, follow the procedure in the following 6-item sequence:

1 ASSEMBLING THE FRONT CABINET
2 INSTALLING THE BILLBOARD
3 CONNECTING THE CABINET
4 SECURING IN PLACE (LEG ADJUSTER ADJUSTMENT)
5 POWER SUPPLY, AND EARTH CONNECTION
6 ASSEMBLY CHECK

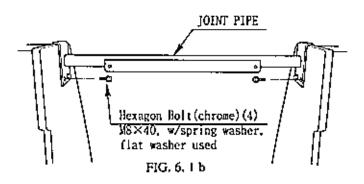
The Master Key and Cashbox Door Key (accessories) are required for assembly work, in addition to the "plus" (Phillips type) screwdriver, wrench (for M16 hexagon bolts) and socket wrench (for M8 hexagon bolts).

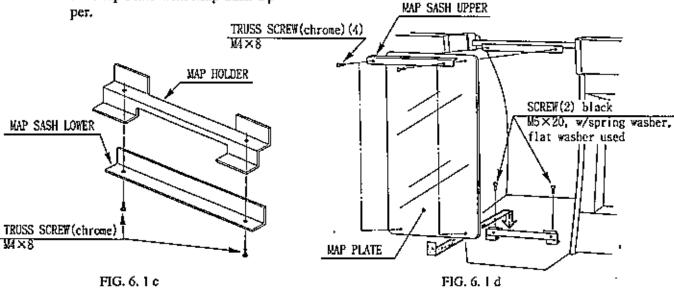
1 ASSEMBLING THE FRONT CABINET

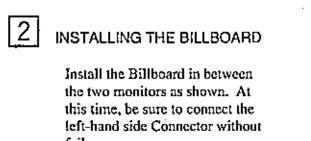
- ① Remove the SHIPPING BRACKET installed at the time of shipment and the 2 Bolts used for MONITOR locking:
- Widen space between the 2 monitors as shwon.
- ③ Open the Shield Case Door (refer to HOW TO REMOVE THE GAME BD, Section 16) and connect the 3 Connectors (a total of 6, 3 each on both sides) shown.



- FIG. 6. 1 a
- 4 Install the JOINT PIPE in between the 2 monitors.
- ⑤ Install MAP SASH LOWER to MAP HOLDER. (FIG. 6.1 c)
- ⑤ Install the Map Holder assembled as per ⑤ above to the Front Cabinet. Securely insert the lower end part of the Map Plate into the Map Holder and secure the upper part of the Map Plate with Map Sash Up-



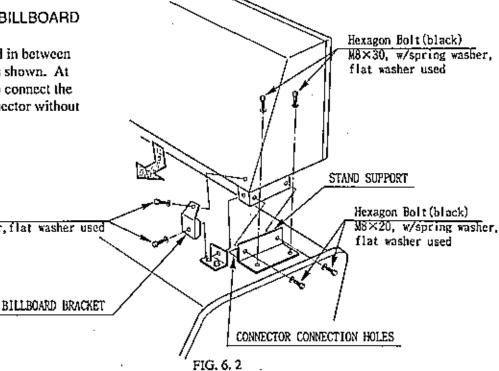




fail.

Hexagon Bolt(black)

M8×20, w/spring washer, flat washer used



3 CONNECTING THE CABINET

- Remove the Shipping Bracket installed at the time of shipment, and install BANK GUARD L (R). Refer to 10-2 for installation.
- ② Connect 2 Connectors (a total of 4) of BIKE MECHA (L, R).
- 3 By adjusting the height of Front Cabinet's Leg Adjusters, insert the BIKE MECHA.
- ① Firmly secure with 6 Hexagon Bolts (a total of 12 for L and R).

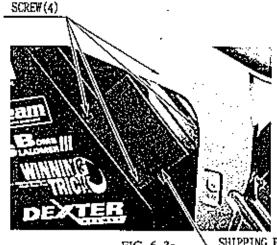
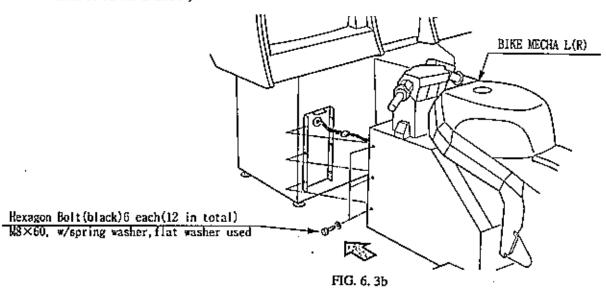


FIG. 6. 3a SHIPPING BRACKET



- (5) Install FLOOR SIDE L, FLOOR SIDE R and FLOOR CENTER. At this time, adjust the leg adjusters to ensure that the floor is in a level position.
- 6 By using JOINT BRACKETs, firmly secure each floor.

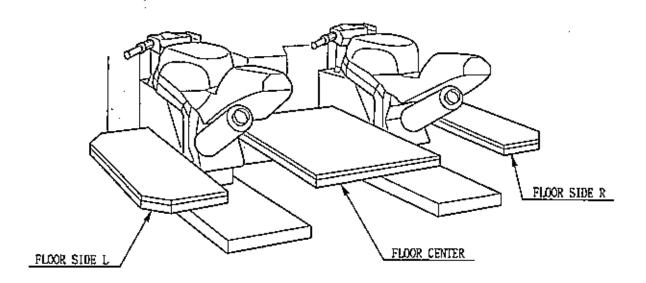
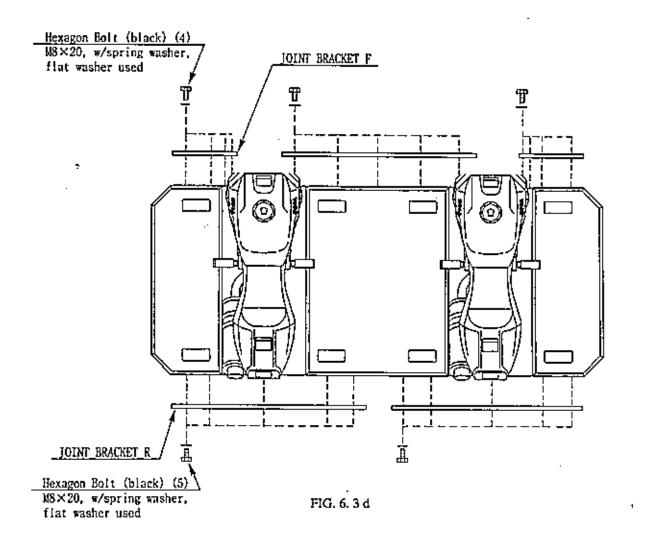


FIG. 6.3 c





SECURING IN PLACE (LEG ADJUSTER ADJUSTMENT)



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

This machine has 11 casters (5 for the front cabinet, 6 for the rear cabinet) and 10 leg adjusters (6 for the front cabinet, 4 for the rear cabinet). When the installation position is determined, cause the leg adjusters to come into contact with the floor directly, make adjustments in a manner so that the casters will be raised approximately 5mm. from the floor and make sure that the machine position is level.

- ① Move the machine to the installation position. When installing the machine against or close to a wall, be sure to secure a passage space to enable the player to take a ride in the machine.
- ② Cause all of the leg adjusters to make contact with the floor. By using a wrench, make adjustments in the height of the leg adjusters to ensure that the machine's position is level.
- 3 After making adjustments, fasten the leg adjuster nut upward and secure the height of the leg adjuster.

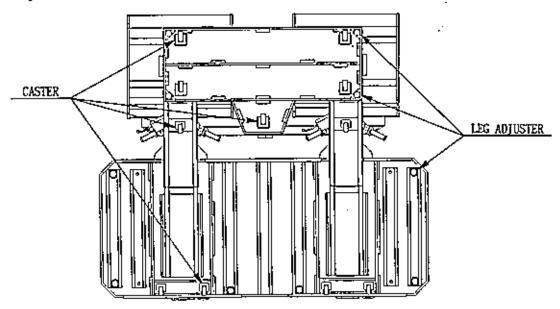


FIG. 6.4 a BOTTOM VIEW

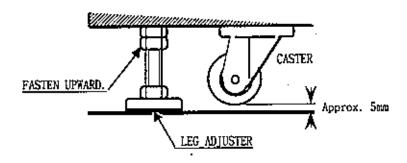


FIG. 6.4 b LEG ADJUSTER

5 POWER SUPPLY, AND EARTH CONNECTION



WARNING!

- 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 the leakage occurs.
- Ensure that the "accurately grounded indoor earth terminal" and the earth wire cable are available. 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 an electric shock or short circuit. Ensure that the wiring position is not in the customer's passage way or the wiring has protective covering.

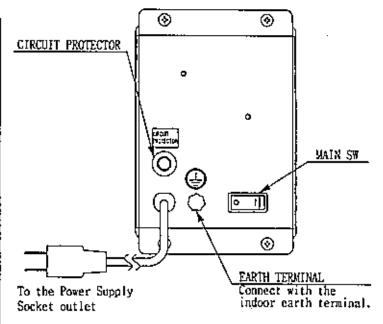


FIG. 6. 5 a AC-unit

- ① The AC Unit is mounted on the back of the FRONT CABINET. The AC Unit incorporates the Main SW, earth terminal and power cord.
- ② Ensure that the Main SW is OFF.
- ③ 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 earth wire through the Bolt, and fasten the Nut.

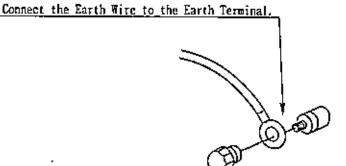


FIG. 6. 5 b Earth Wire Connection

- Firmly insert the power plug into the socket outlet.
- ⑤ Perform wiring for the Power Cord and Earth Wire. Install protective covering for the Power Cord and Earth Wire.

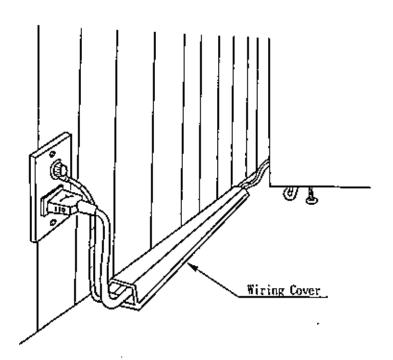


FIG. 6. 5 c Connecting Power Cord and Earth Wire

6 ASSEMBLY CHECK

In the TEST MODE, ascertain that the assembly has been made correctly and IC BD, is satisfactory (refer to Section 8).

In the test mode, perform the following test:

(I) MEMORY TEST

```
MEMORY TEST

1C++ GOOD IC++ GOOD IC++ GOOD
1C++ GOOD IC++ GOOD
```

Selecting the MEMORY TEST 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) INPUT TEST

```
INPUT TEST

MIN MAX MID

THROTTLE : ++H (++H) (++H)

BRAKE : ++K (++H) (++H)

BANK : ++H (++H) (++H)

SHIFT UP : OFF

SNIFT DOWN : OFF

START VPR : OFF

COIN CHUTE #1 : OFF

COIN CHUTE #2 : OFF

SERVICE : OFF

TEST: OFF

PUSH TEST BUTTON TO EXIT
```

Selecting the INPUT TEST on the test mode menu screen causes the screen (on which each switch and V. R. are 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.

Check the display of each V.R. value. If the V.R. is malfunctioning, refer to Sections 9 & 10.

(3) SOUND TEST

```
SOUND TEST

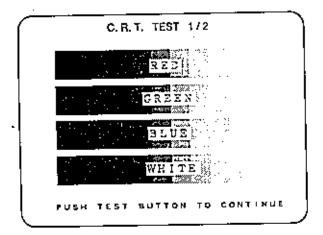
VOICE :
>EFFECT :
BRAKE_P
ENGINE_P :
ENGINE_E
B. G. M. :
EXIT :

SELECT BY SERVICE BUTTON
AND PUSH TEST BUTTON
```

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

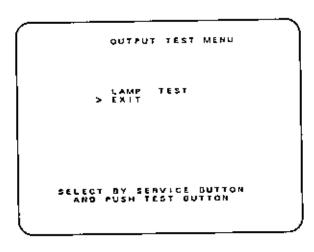
Be sure to check if the sound is satisfactorily emitted from each speaker and the sound volume is appropriate.

(4) C.R.T. TEST



In the TEST mode menu, selecting C.R.T. TEST allows the screen (on which the monitor is tested) to be displayed. Although the monitor adjustments have been made at the time of shipment from the factory, color deviation, etc., may occur due to the effect caused by geomagnetism, the location building's steel frames and other game machines 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 12.

(5) OUTPUT TEST



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

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

PRECAUTIONS TO BE HEEDED WHEN MOVING THE MACHINE



When moving the machine, be sure to unplug. Moving the machine with the plug as is inserted can damage the power cord, causing a fire and or electric shock. During transportation, use care so as not to damage the power cords by treading on them.



Since this machine is a heavy structure of approximately 470kg., its leg adjusters should be retracted when moving the machine over the floor. In place where the floor has step-like differences, be sure to separate the 1P COCKPIT and 2P COCKPIT from each other. Lifting the cabinet with 1P and 2P cockpits being still connected may cause damage to the cabinet.

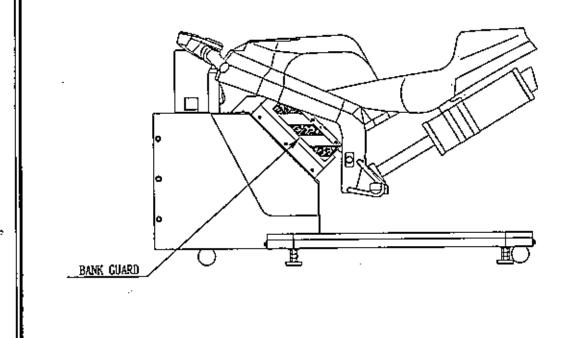
7. OPERATION

PRECAUTIONS TO BE HEEDED BEFORE STARTING THE OPERATION



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

- To prevent accidents, provide sufficient space for machine installation considering potentially crowded situation. Depending on the player's operation, the bike body banks left and right. If the installation space is limited, the bike can come into contact with and hit customers causing an accident or trouble.
- Check the Bank Guard of the bike mecha's side part for any damage or omission. An irregular Bank Guard can cause injury such as the customer's finger(s) being caught.
- Check if all of the Leg Adjusters are in contact with the surface. If they
 are not, the Cabinet can move, causing an accident.

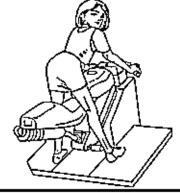


CAUTIONS TO BE HEEDED DURING OPERATION



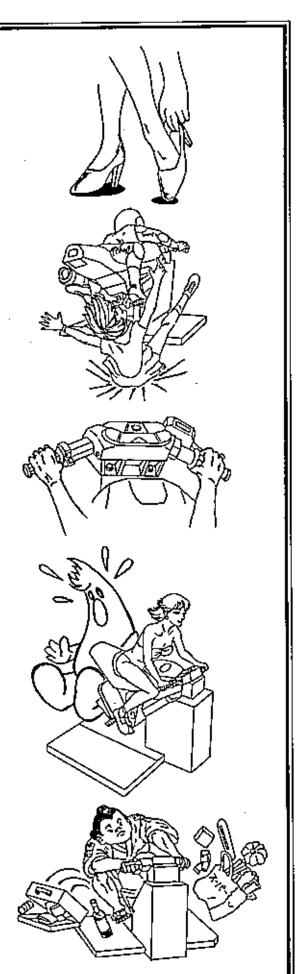
In order to avoid accidents, check the following during operation:

 The player whose feet can not be placed on the base could fall down causing an accident.
 To avoid an accident, instruct persons of short stature to refrain from playing the game.





- Instruct those who wear highheeled shoes to refrain from playing the game by explaining that playing game with highheeled shoes is very likely to cause potentially hazardous situation.
- To avoid injury and parts damage, instruct not to ride tandem (with another person).
- Instruct the player to take a firm grip of the handle during play. To avoid injury, instruct the players to refrain from single-handed taking grip of the handle (which is very likely to cause potentially hazardous situation, should he attempt to do so).
- To avoid injury resulting from coming into contact with the player or the bike body, keep persons other than the player away from the Rear Base.
- To avoid injury, and damage to parts and items, instruct the player not to place things on the base.
- Caution persons under the influence of liquor to refrain from playing the game.

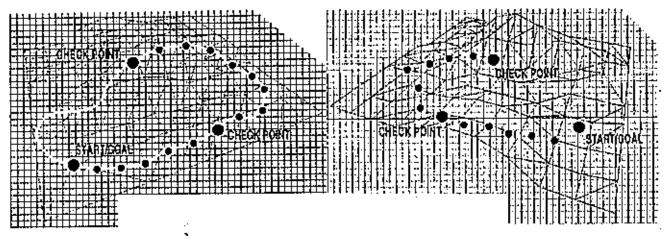


HOW TO PLAY

Herein, explanations are given for using the machine independently (2P interactive).

- Ride the bike by striding the bike body.
- ② As seen from the position facing the Projector screen, 1P side has the Coin Chute on the righthand side and 2P side has it on the left-hand side. Insert a coin(s). Inserting one play worth coin(s) allows ENTRY screen to appear. Up to 9 credits can be counted at one time. Coins inserted after counting 9 credits will neither be counted nor returned.
- 3 When on-screen Time Count becomes zero, or when the other bike has finished entry, the course selection screen appears.
- The isle where the courses are, appears in the central portion of the screen, with explanations given regarding the easy course on the lower left part of the screen and the technical course on the lower right portion. Incline the bike to select the course and press the START button to make the selection effective (Note 1).

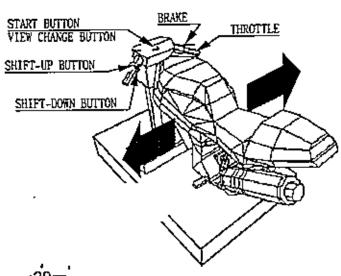
If 2 or more players select different courses, a majority decision applies, if the selection comes to a tie, the easy course is chosen. When only one player is playing, select the course by pressing the Start button while applying the brake or turning the Throttle towards you while applying brake to enter the Time Trial Mode (Note 2).



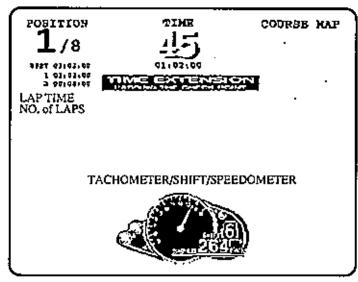
LAXEY COAST

T. T. COURS

(5) Transmission select screen appears. Choose AUTO or MANUAL by inclining the bike as when selecting the course and press the START button to make the selection effective. At the time of transmission selection. BGM (background music) can be chosen by using the SHIFT button (however, note that the background music initially selected by a seat will apply to all of the seats.



- 6 After the transmission is selected, the game starts.
- In the game mode, the upper left portion of the screen displays the player's position, lap time and No. of laps. The upper center of the screen indicates time limit and the comprehensive lap time. The upper right portion of the screen shows the course map, The lower part of the screen displays tachometer, speedometer and shift (indicated in the central portion of the screen in the Rider's Eye perspective and on the lower right portion in the Rear View perspective). Note 3.



GAME MODE

- When the game starts, time limit countdown starts. Passing a checkpoint before the remaining time becomes zero allows the player to continue game by adding the remaining time of the previous section to the time limit covering up to the next checkpoint. Failing to pass a checkpoint results in GAME OVER.
- (Note 4) Both in the easy and technical courses, finishing 2 laps ends the game. (Note 4)
- The good players can register his name in case of 1P play only. Incline the bike to choose characters and press the START button to make the selection effective. The name entered for DEMO mode will be displayed.
- After one game, if any credits allowing for play still remain, the ENTRY screen will appear.
- Note 1 Turning the Throttle towards you and then returning it to the original position can also make the selection effective. Turning the Throttle towards you and leaving it intact without returning it to the original position is ineffective.
- Note 2 In the game setting mode, the game mode is set to Race Mode or Time Trial Mode (see 8-7). When set to Race Mode, you can play in the Time Trial Mode by using the aforementioned procedure.
- Note 3 During play, pressing the START button alternates RIDER's EYE and REAR VIEW perspectives.
- Note 4 Lap frequency setting can be changed.
- Note 5 During game play, the bike reacts of itself, depending on the surface condition and the player's operation. Also, engine sound is emitted from the woofer speaker in the muffler in the manner meeting the acceleration status.

ADVICE ON PLAY

- · Choose AUTO when you are not familiar with the game.
- When passing corners, try to incline yourself and not the bike.
- In the Technical Course, memorize the course map and try to find the braking points for each corner.
- For shift change, engine sounds and vibration should be taken into consideration apart from the tachometer indicator's movements.

8. 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.



CAUTIONS TO BE HEEDED WHEN USING THE TEST MODE:

In the case where multiple units are linked for communication play, exiting from the test mode causes the unit to perform the network check automatically. During this time, all of the linked units will not allow the game to be played in normal status. Therefore, be sure not to enter the test mode if any one of the units is in play. On the other hand, if even one unit is in the test mode, make sure that other machines are not in play.

TABLE 8 EXPLANATION OF TEST MODE

| ITEMS | DESCRIPTION | | |
|----------------------------|--|-------------------|--|
| INSTALLATION OF MACHINE | · · · · · · · · · · · · · · · · · · · | | |
| MEMORY | Choose MEMORY TEST in the MENU mode to allow the MEMORY test to be performed. In this test, PROGRAM RAMs, ROMs, and ICs on the IC Board are checked. | \$ - 3 | |
| PERIODIC SERVICING | Periodically perform the following: 1. MEMORY TEST 2. Ascertain each setting. 3. In the INPUT TEST mode, test the CONTROL device 4. In the OUTPUT TEST mode, check each of lamps. | | |
| CONTROL SYSTEM | In the INPUT TEST mode, check each SW and VR. Adjust or replace each SW and VR. If the problem can not be solved yet, check the CONTROL's moves. | 8 - 4 9, 1 0 | |
| MONITOR | In the MONITOR ADJUSTMENT mode, check to see if the PROJECTOR adjustment is appropriately made. | 8 – 6 1 2 | |
| IC BOARD | MEMORY TEST In the SOUND TEST mode, check the sound related ROMs. | 8 – 3 8 – 5 | |
| DATA CHECK | Check such data as game play time and histogram to adjust the difficulty level, etc | | |



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

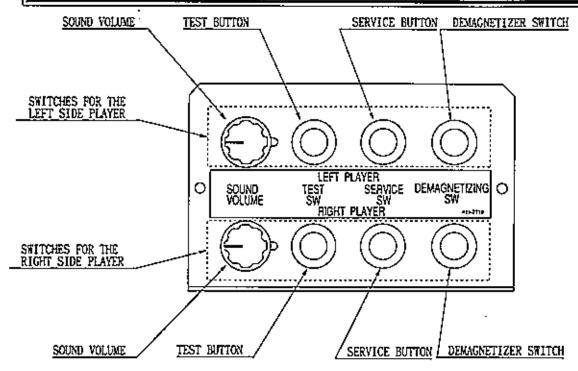


FIG. 8. 1 a SWITCH UNIT

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

TEST BUTTON:

For the handling of the TEST BUTTON, refer to the fol-

TEST towis

lowing pages.

SERVICE BUTTON:

Gives credits without registering on the coin meter.

SERVICE

SOUND VOLUME: Adjusts the volume of the monitor's right-hand side and

left-hand side speakers, and the Muffler speaker.

DEMAGNETIZER SWITCH: Eliminates color unevenness from the screen.

The Handle Mecha's buttons and switches are also used in the test mode. For each functioning, refer to the next page onward.

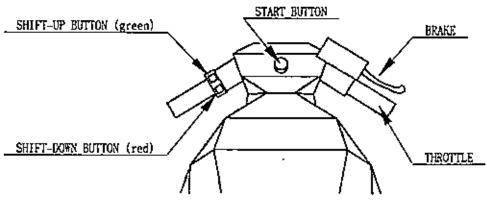


FIG. 8.1 b HANDLE MECHA

8-2 TEST MODE

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

- Pressing the TEST button displays the test menu (FIG. 8.2).
- Press the SERVICE BUTTON till the pointer ">" is moved to the desired item to make a selection.

TEST MENU
MEMORY TEST
INPUT TEST
SOUND TEST
C. R. T. TEST
GAME ASSIGNMENTS
COIN ASSIGNMENTS
GOOXKEEPING
BACKUP DATA CLEAR
DUTPUT TEST
EXIT

SELECT BY SERVICE BUTTON
AND PUSH TEST BUTTON

FIG. 8.2 TEST MENU

- Bring the pointer ">" to the desired item and press either the TEST BUTTON or START BUTTON to cause the selected item's test to start.
- Choosing EXIT and pressing the TEST button or the START button will end the Test Mode, causing the Game Mode to return. At the same time, bike body centering is performed, and after centering, the bike is locked.

8-3 MEMORY TEST

```
MEMORY TEST

1C++ GOOD | C++ GOOD | C++ GOOD |
1C++ GOOD | C++ GOOD | C++ GOOD |
1C++ GOOD | C++ GOOD | C++ GOOD |
1C++ GOOD | C++ GOOD | C++ GOOD |
1C++ GOOD | C++ GOOD | C++ GOOD |
1C++ GOOD | C++ GOOD | C++ GOOD |
1C++ GOOD |
1C++ GOOD | C++ GOOD |
1C++ GOOD |
1C++ GOOD | C++ GOOD |
1C++ GOOD |
1C++ GOOD | C++ GOOD |
1C++ GOOD |
1C++ GOOD |
1C++ GOOD | C++ GOOD |
1C++ GOOD
```

The MEMORY TEST mode is for checking the on-BD memory IC functioning. "GOOD" is displayed for normal ICs and "BAD" is displayed for abnormal ICs.

FIG. 8.3 MEMORY TEST

- When the test is completed, if the results are shown as above, it is satisfactory.
- If the test is not completed, the IC Board may have malfunctioned.
- After finishing the test, press the TEST BUTTON or START BUTTON to return to MENU mode.

INPUT TEST

MIN MAX MID

THROTTLE : **H (**H) (**H)

BRAKE : **H (**H) (**H)

BANK : **H (**H) (**H)

SHIFT UP : OFF

SHIFT DOWN : OFF

START /VR : OFF

COIN CHUTE #1 : OFF

COIN CHUTE #2 : OFF

SERVICE : OFF

TEST : OFF

PUSH TEST BUTTON TO EXIT

FIG. 8. 4a INPUT TEST

Selecting INPUT TEST causes the screen shown to appear and allows each switch status and game play related V. R. values to be checked. Also, in this mode, V. R. value setting can be performed.

On this screen, periodically check the status of each switch & V. R.

- By pressing each switch, if the display on the right-hand side of the name of each switch changes to ON from OFF, the SW and the wiring connections are satisfactory.
- To check CHUTE 1 & CHUTE 2 coin switches, open the COIN CHUTE DOOR and insert a coin(s) in the slot.
- To return to the MENU mode, press the TEST BUTTON.

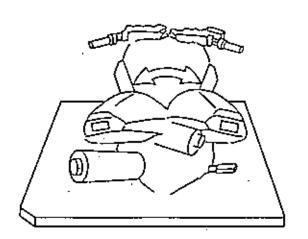


FIG. 8. 4b BANK

V. R. SETTING PROCEDURE

- While pressing the SHIFT-UP button, press the START button to select the desired change item. Release the button to make the selection effective.
- With the SHIFT DOWN button pressed down, move the applicable device for shifting (throttle, brake and bank) fully within the applicable mobile range to set the value. When setting the bank V. R., where the button is released will be the center position.
- ③ Upon finishing the setting change, press the TEST button to have the menu mode return to the screen.

APPROPRIATE VALUE FOR EACH V. R.

To change V. R. securing position when replacing the V. R., etc. first secure the V. R. at a position displaying the following values. Then, perform V. R. setting in the above mentioned procedure.

ı

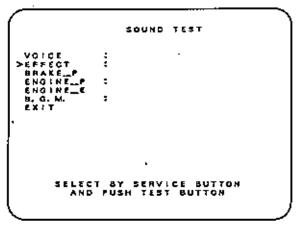
THROTTLE: 20H (without turning the THROTTLE GRIP)

BRAKE: 2 0 H (without pulling the BREAK LEVER)

BANK: 20H Center position MAX. F 0 H when inclined right when inclined left

-25—

8-5 SOUND TEST



Selecting SOUND TEST allows the desired sound (sound effects, announcement, BGM, etc.), to be chosen and heard. In this test, sound related IC Board and each speaker can be checked. Press the SERVICE button or SHIFT button to bring the arrow (>) to the desired sound test item. Pressing the TEST button or the START button allows the selected type of sound to be emitted. Each time the TEST button or START button is pressed, the next sound is emitted.

FIG. 8.5 SOUND TEST

VOICE Announcement during game.
EFFECT Sound effects during game.
BRAKE_P Player Bike's braking sound during game.
ENGINE_P Player Bike's engine sound during game.
ENGINE_E The competitor's engine sound during game.
B. G. M. Background music during game.
EXIT Returning to Menu Mode.

8-6 C. R. T. TEST

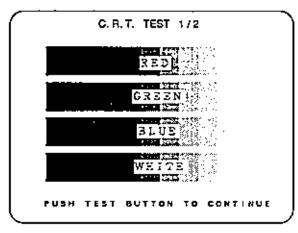


FIG. 8. 6a C. R. T. TEST

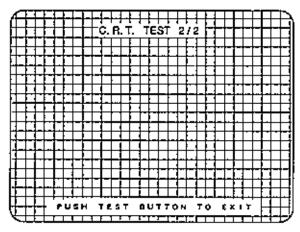


FIG. 8. 6b C. R. T. TEST

Choose C.R.T. TEST to have the Monitor Adjustment check screen appear. By watching the screen, periodically check if adjustments are needed. For the Adjustment Method, refer to the Section of MONITOR. In the screen as per FIG. 8. 6a, check Monitor color adjustments. By watching this screen, make color adjustments. Each of the R (red), G (green) and B (Blue) and white is darkest at the left-hand end and becomes brighter towards the right-hand end.

Press the TEST button to have the following Crosshatch screen appear.

In the screen as per FIG. 8.6b, check monitor size and position adjustments. Check size and position adjustments by watching this screen. Adjust the Monitor to make sure that the crosshatch lines do not go beyond the screen size and crosshatch distortion does not occur.

Press the TEST button to have the menu return to the screen.

Select GAME ASSIGNMENTS to have the following screen appear. This allows settings of lap frequency, game difficulty level, etc. to be performed. Each item displays the contents described as follows:

SAME ASSIGNMENTS ADVERTISE SOUND OFF HAPAN HIWT COUNTRY CABINET TYPE LINK TYPE BIXE COLOR GAME MODE LAXEY NUMB SLAVE Red (No. 1) Y NUMBER OF LAP: [
GAME DIFFICULTY: [
REVISE MODE: [
NUMBER OF LAP: [
GAME DIFFICULTY: [NORMAL NORMAL REVISE MODE: 1/3 0FF EXIT SELECT BY SERVICE BUTTON AND PUSH TEST BUTTON

FIG. 8.7 GAME ASSIGNMENTS

SETTING CHANGE PROCEDURE



IMPORTANT!

Setting change is not effective till EXITing. Be sure to EXIT after setting change.

 Press the SERVICE button or SHIFT button to bring the arrow (>) to the desired change item.

② Press the TEST button or the START button to select the setting change item.

3 Move the arrow to EXIT and press the TEST button or the START button to return the menu mode to the screen.

 ADVERTISE SOUND Setting of sound to be emitted during Advertise mode.

OFF: No sound

ON: Sound emitted.

_COUNTRY

Allows for language setting.

CABINET TYPE

Alternates DX and TWIN. Set to TWIN.

LINK TYPE

For interactive play, set to MASTER or SLAVE. Set one of the Seats to MASTER and set all others to

SLAVE.

BIKE COLOR

Selects bike color. At the same time, performs Seat order setting for communication play. For communication play, make sure that an identical number is not set to different

seats.

GAME MODE

Select either RACE or T.T. (time trial).

**** NUMBER OF LAP Lap frequency of each course.

GAME DIFFICULTY

This game allows by-course difficulty level to be set in 4 levels. Depending on the difficulty level set, the initial time varies.

REVISE MODE

Sets REVISE for versus game.

No Revise: Revise Low 1/3~3/3 Revise High

START SWITCH OP.

Sets whether, at the time of game start, the START button

is to be used or not.

OFF: Not Used.

ON: To be used.

8-8 COIN ASSIGNMENT

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

COIN ASSIGNMENTS

COIN/CREDIT SETTING ###

COIN CHUTE #1

COIN CHUTE #2

COINS ** CREDITS

MANUAL SETTING

SELECT BY SERVICE SUTTON

AND PUSH TEST DUTTON

FIG. 8, 8a COIN ASSIGNMENTS

SETTING CHANGE PROCEDURE



Ü,

Setting change is not effective until EXITing. Be sure to EXIT after setting change.

- ① Press the SERVICE button or SHIFT button to bring the arrow (>) to the desired change item.
- ② Press the TEST button or the START button to select the setting change item.
- 3 Move the arrow to EXIT and press the TEST button or the START button to return the menu mode to the screen.
 - COIN/CREDIT SETTING "How many coins correspond to how many credits,"
 In this machine, selection as per Table 8.8a is possible.
 - MANUAL SETTING Allows for finer settings. (Table 8.8b)

TABLE 8. 8a COIN/CREDIT SETTING (COIN CHUTE COMMON TYPE)

| NAME OF SETTING FUNCTIONING OF COIN CHUTE #1 FUNCTIONING OF COIN CHUTE #2 | | | | C OR COIN CUITTE #3 |
|---|---------|-----------|---------|---------------------|
| SETTING #1 | 1 COIN | 1 CREDIT | 1 COIN | |
| SETTING #1 | 1 COIN | 2 CREDITS | | 1 CREDIT |
| | 1 COIN | 3 CREDITS | 1 COIN | 1 CREDIT |
| SETTING #3 | | | 1 COIN | 1 CREDIT |
| SETTING #4 | 1 COIN | 4 CREDITS | 1 COIN | 1 CREDIT |
| SETTING #5 | 1 COIN | 5 CREDITS | 1 COIN | 1 CREDIT |
| SETTING #6 | 1 COIN | 2 CREDITS | 1 COIN | 2 CREDITS |
| SETTING #7 | 1 COIN | 5 CREDITS | 1 COIN | 2 CREDITS |
| SETTING #8 | 1 COIN | 3 CREDITS | 1 COIN | 3 CREDITS |
| SETTING #9 | 1 COIN | 4 CREDITS | 1 COIN | 4 CREDITS |
| SETTING #10 | 1 COIN | 5 CREDITS | 1 COIN | 5 CREDITS |
| SETTING #11 | 1 COIN | 6 CREDITS | 1 COIN | 6 CREDITS |
| SETTING #12 | 2 COINS | 1 CREDIT | 2 COINS | 1 CREDIT |
| SETTING #13 | 1 COIN | 1 CREDIT | 2 COINS | 1 CREDIT |
| SETTING #14 | I COIN | 2 CREDITS | 2 COINS | 1 CREDIT |
| SETTING #15 | I COIN | 1 CREDIT | 1 COIN | 1 CREDIT |
| | 2 COINS | 3 CREDITS | 2 COINS | 3 CREDITS |
| SETTING #16 | 1 COIN | 3 CREDITS | 1 COIN | 1 CREDIT |
| | | | 2 COINS | 3 CREDITS |
| SETTING #17 | 3 COINS | 1 CREDIT | 3 COINS | 1 CREDIT |
| SETTING #18 | 4 COINS | 1 CREDIT | 4 COINS | 1 CREDIT |
| SETTING #19 | 1 COIN | I CREDIT | 1 COIN | 1 CREDIT |
| | 2 COINS | 2 CREDITS | 2 COINS | 2 CREDITS |
| { | 3 COINS | 3 CREDITS | 3 COINS | 3 CREDITS |
| | 4 COINS | 5 CREDITS | 4 COINS | 5 CREDITS |
| SETTING #20 | i COIN | 5 CREDITS | 1 COIN | I CREDIT |
| | | | 2 COINS | 2 CREDITS |
| | | | 3 COINS | 3 CREDITS |
| _ | | | 4 COINS | 5 CREDITS |
| SETTING #21 | 5 COINS | 1 CREDIT | 5 COINS | 1 ÇREDIT |
| SETTING #22 | 1 COIN | 2 CREDITS | 3 COINS | 1 CREDIT |
| | | ! | 5 COINS | 2 CREDITS |
| SETTING #23 | 2 COINS | 1 CREDIT | 2 COINS | 1 CREDIT |
| | 4 COINS | 2 CREDITS | 4 COINS | 2 CREDITS |
| | 5 COINS | 3 CREDITS | 5 COINS | 3 CREDITS |
| SETTING #24 | 1 COIN | 3 CREDITS | 2 COINS | I CREDIT |
| 1 | | | 4 COINS | 2 CREDITS |
| <u> </u> | | | 5 COINS | 3 CREDITS |
| SETTING #25 | 1 COIN | 1 CREDIT | 1 COIN | 1 CREDIT |
| | 2 COINS | 2 CREDITS | 2 COINS | 2 CREDITS |
| | 3 COINS | 3 CREDITS | 3 COINS | 3 CREDITS |
| | 4 COINS | 4 CREDITS | 4 COINS | 4 CREDITS |
| | 5 COINS | 6 CREDITS | 5 COINS | 6 CREDITS |
| SETTING #26 | 1 COIN | 6 CREDITS | i COIN | 1 CREDIT |
| | | | 2 COINS | 2 CREDITS |
| | | | 3 COINS | 3 CREDITS |
|) l | | - | 4 COINS | 4 CREDITS |
| | | | 5 COINS | 6 CREDITS |
| SETTING #27 | FREE | EPLAY | | EE PLAY |
| <u> </u> | | | | |

MANUAL SETTING

Selecting MANUAL SETTING in the Coin Assignment mode displays the following screen.

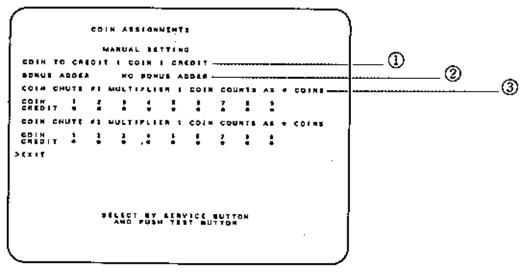


FIG. 8.8b MANUAL SETTING

- ① Determines Coin /Credit setting.
- This sets how many coins should be inserted to obtain one Service Coin.
- 3 This sets how many tokens one coin represents.

Table 8.8b MANUAL SETTING

| Table 8. 80 MANUAL SETTING | <u>, </u> |
|----------------------------|--|
| COIN TO CREDIT | 1 COIN 1 CREDIT |
| | 2 CO!NS 1 CREDIT |
| | 3 COINS 1 CREDIT |
| | 4 COINS 1 CREDIT |
| | 5 COINS 1 CREDIT |
| | 6 COINS 1 CREDIT |
| | 7 COINS 1 CREDIT |
| | 8 COINS 1 CREDIT |
| | 9 COINS 1 CREDIT |
| BONUS ADDER | NO BONUS ADDER |
| SOMES ADDED | 2 COINS GIVE 1 EXTRA COIN |
| | 3 COINS GIVE 1 EXTRA COIN |
| | 4 COINS GIVE 1 EXTRA COIN |
| | |
| | 5 COINS GIVE 1 EXTRA COIN |
| 1 | 6 COINS GIVE 1 EXTRA COIN |
| | 7 COINS GIVE 1 EXTRA COIN |
| | 8 COINS GIVE 1 EXTRA COIN |
| | 9 COINS GIVE 1 EXTRA COIN |
| COIN CHUTE MULTIPLIER | 1 COIN COUNTS AS 1 COIN |
| | 1 COIN COUNTS AS 2 COINS |
| | 1 COIN COUNTS AS 3 COINS |
| <u> </u> | 1 COIN COUNTS AS 4 COINS |
| | I COIN COUNTS AS 5 COINS |
| | .1 COIN COUNTS AS 6 COINS |
| | 1 COIN COUNTS AS 7 COINS |
| | 1 COIN COUNTS AS 8 COINS |
| | 1 COIN COUNTS AS 9 COINS |
| | |

8-9 BOOKKEEPING

Selecting the BOOKKEEPING in the menu mode displays the bookkeeping data up to the present on the following 5 pages.

Each time the TEST button is pressed, the test item proceeds to the next item. Pressing the TEST button or the START button while the 5/5 screen is displayed returns the test menu on the screen.

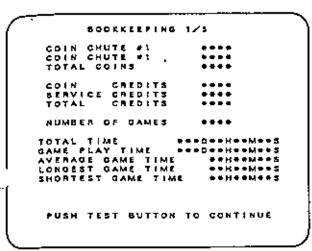


FIG. 8. 9 a BOOKKEEPING (1/5)

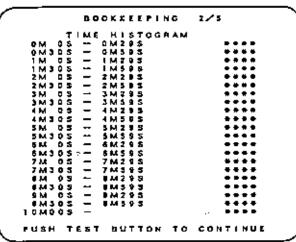


FIG. 8.9 b BOOKKEEPING (2/5)

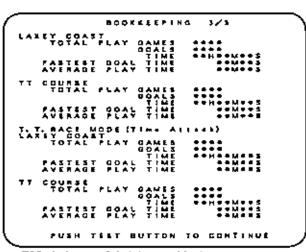


FIG. 8.9 c BOOKKEEPING (3/5)

COIN CHUTE#*
 Number of coins put in each chute.

TOTAL COINS Total number of coins inserted in each coin chute.

- COIN CREDITS
 Number of credits registered by inserting coins
- SERVICE CREDITS
 Credits registered by the SERVICE button
- TOTAL CREDITS
 Total number of credits
 (COIN CREDITS+SERVICE CREDITS)
- TOTAL TIME The total energized time.
- TIME HISTOGRAM By-playtime play frequency.

The 2/5 screen displays by-play-time play frequency. For difficulty setting, etc., refer to this screen.

The 3/5 screen displays by-course play frequency and play time.

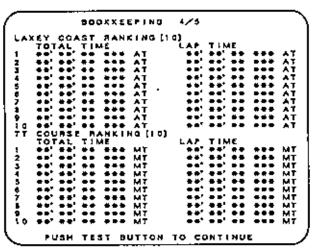


FIG. 8.9 d BOOKKEEPING (4/5)

The 4/5 screen displays by-course ranking up to the 10th position in the case of RACE mode.

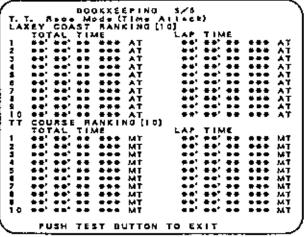


FIG. 8.9 e BOOKKEEPING (5/5)

The 5/5 screen displays by-course ranking up to the 10th position in the case of T.T. (Time Trial) mode.

8-10 BACKUP DATA CLEAR

BACKUP DATA CLEAR

YES (CLEAR)
> NO (CANCEL)

SELECT BY SERVICE BUTTON AND PUSH TEST BUTTON

Clears the contents of BOOKKEEPING. When clearing, use the SERVICE BUTTON to bring the arrow (>) to "YES (CLEAR)" and press the TEST BUTTON. When the data has been cleared, "COMPLETED" will be displayed.

Bring the arrow to "NO (CANCEL)" and press the TEST BUTTON to return to the Menu mode without clearing the data.

Also, note that the game setting contents are not affected by BACKUP DATA CLEAR operation.

FIG. 8. 10 BACKUP DATA CLEAR

8-11 OUTPUT TEST

In the OUTPUT TEST, connections between IC Boards, the status of each lamp can be checked. In this mode, periodically check these items.

OUTPUT TEST MENU

LAMP TEST > Exit

SELECT BY SERVICE BUTTON AND PUSH TEST BUTTON

In the menu mode, selecting OUTPUT TEST causes the menu (FIG. 8, 11 a) in the OUTPUT TEST mode to appear on the screen. Select the desired test item in the OUTPUT TEST mode. Upon finishing each test, first return the OUTPUT TEST menu to the screen, and then choose EXIT to return to the menu screen and exit from the test mode.

FIG. 8.11 a TEST MENU IN THE OUTPUT TEST MODE

Lamp Test

> START /VR LEADER BRAKE

SELECT BY SERVICE BUTTON AND PUSH TEST BUTTON TO EXIT

FIG. 8.11 b LAMPTEST

Selecting LAMP TEST in the OUTPUT TEST menu mode displays the screen on which each lamp's functioning check is performed.

If the lamp selected (where the arrow is) flashes, the lamp and its wiring connections are satisfactory.

Press either the TEST button or the START button to return the OUTPUT TEST menu mode to the screen.

9. HANDLE MECHANISM

In the Test Mode, if Throttle and Brake V.R. value variations can not be set within the allowable range, V. R. installation position adjustment or V. R. replacement are needed. Also, make sure to apply grease to the Throttle/Brake mechanism once every 6 months. To perform the above work, remove the Handle Cover and Brake Cover. (When replacing the Throttle V. R., however, remove only the Handle Cover.) When replacing the START button, first remove the wiring connected to the START button and then remove the START button from the Handle Cover.

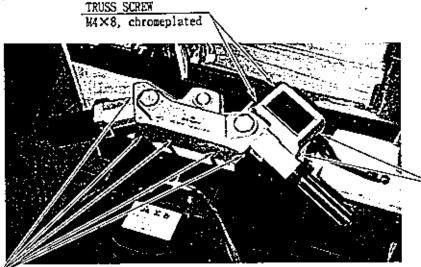
REMOVING THE HANDLE COVER AND BRAKE COVER



- When working, be sure to turn power off. Working without turning power off can cause electric shock or short circuit accident.
- Be careful so as not to cause damage to wirings. Damaged wiring can cause an electric shock or short circuit accident.

For Throttle/Brake V.R. adjustment, remove the Handle Cover and Brake Cover by using the following procedure. There is a connector's wiring connection inside the Handle Cover. Be very careful so as not to damage the wiring.

- Remove the 5 screws which secure the Handle Cover.
- Remove the 4 screws which secure the Brake Cover.
- The Handle Cover is removable from the Handle Unit as per ① above. Disconnect the connector to remove the Handle Cover from the Handle Mecha. Then, the Brake Cover is removable.



TRUSS SCREW
M4×8 chromeplated

TRUSS SCREW

M4×8 chromeplated

FIG. 9 a

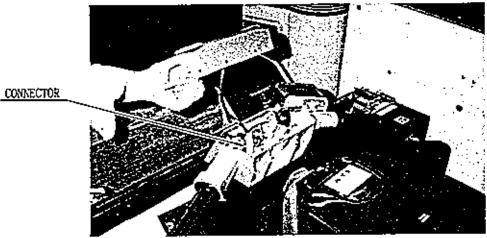


FIG. 9 b

9-1 THROTTLE/BRAKE V. R. ADJUSTMENT



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

This machine has V. R. setting functions. Game is playable satisfactorily if the V. R. Shaft can rotate without any problem within the mobile range of the Grip and Brake Lever. Display the INPUT TEST mode, and while maintaining the status without applying the Throttle and brake respectively to the Grip and Brake Lever, follow the procedure below to make V. R. adjustments.

ADJUSTING THE THROTTLE V. R.

- Remove the Handle Cover.
- ② Loosen Screw A and move the Gear to ensure that the variation value in the V. R. adjustment mode is within 20H plus or minus 10.
- 3 If the value is within the specified range, retighten Screw A.
- Perform V. R. setting, (Refer to 8-4)

ADJUSTING THE BRAKE V. R.

- Remove the Handle Cover and then remove the Brake Cover.
- ② Loosen Screw B and move the Gear to ensure that the variation value in the V. R. adjustment mode is within 20H plus or minus 10.
- 3 If the value is within the specified range, retighten Screw B.
- Perform V. R. setting. (Refer to 8-4.)

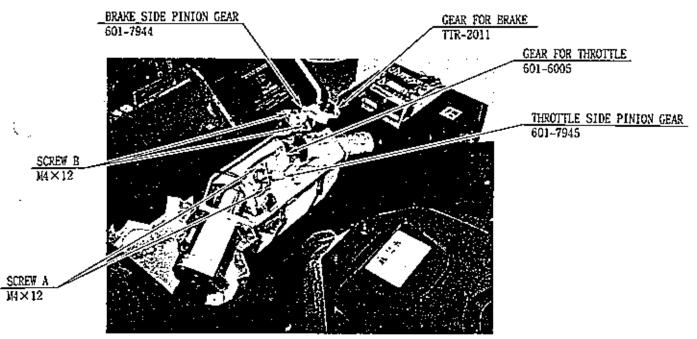


FIG. 9. 1

9-2 THROTTLE/BRAKE V. R. REPLACEMENT



When replacing the VOLUME, be sure to turn power off. Performing replacement work without turning power off can cause electric shock or short circuit accident.

REPLACEMENT PROCEDURE

For V. R. replacement, turn the V. R. shaft to the periphery of V. R. shaft angle in which the V. R. value is the minimum, engage the Gears and secure the V. R. Bracket. At this time, make sure that the throttle and brake are not applied respectively to the Grip and Brake Lever. Game is playable satisfactorily if the V. R. shaft rotates without any problem within the mobile range of the Grip and the Lever.

- ① Take out the 2 screws which secure the V. R. Bracket to remove the Bracket from the Handle Unit.
- ② To remove the PINION GEAR, loosen the 2 Set Screws of the Pinion Gear attached to the Shaft of the V. R. to be replaced.
- 3 Take out Nut A from the V. R. Shaft to remove the V. R. from the Bracket.
- After replacement, assemble in the procedure opposite to the above.
- (S) In the Test Mode, perform V. R. setting. (Refer to 8-4.)

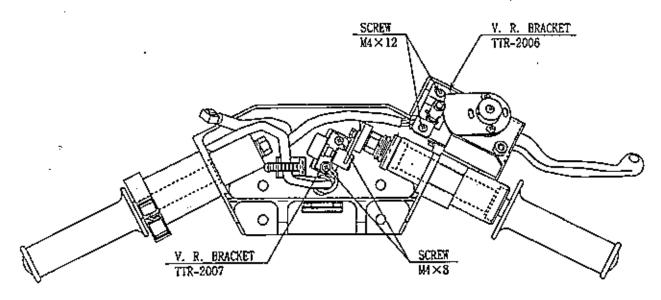
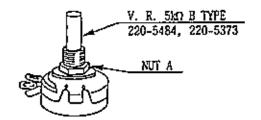


FIG. 9, 2

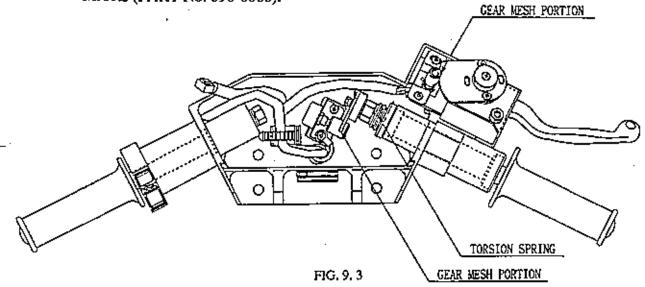


9-3 GREASING



Be sure to apply specified grease. Using grease other than that specified can damage parts.

Apply spray greasing once every 6 months to the 2 places shown in FIG. 9. 3 where the spring and gear are engaged. For spray grease, use NOK KLUBER L60 or GREASE MATE (PART No. 090-0060).

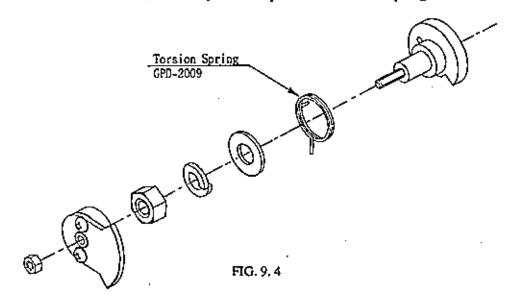


9-4 SPRING REPLACEMENT



When replacing the SPRING, be sure to turn power off. Working without turning power off can cause electric shock or short circuit accident.

As shown in FIG. 9.4, remove parts to replace the Torsion Spring.



10. BIKE MECHA

10—1 VOLUME (V. R.) REPLACEMENT



When replacing the VOLUME, be sure to turn power off. Performing replacement work without turning power off can cause electric shock or short circuit accident.

Replace the bike's bank angle V. R. in the following procedure.

- Take out the 4 hexagon socket head bolts to remove the Fuel Cap.
- ② Take out a total of 3 bolts which secure the Tank to remove the Tank.
- 3 Take out the 2 screws and remove the Wire Clamp.
- Take out the 4 screws and remove the Volume (V. R.) Cover.
- ⑤ Take out the 2 screws and Connector to replace the V. R.
- 6 After V. R. replacement, make adjustment of gear mesh in the manner so that when the bike mecha is banked, the V. R. shaft does not rotate beyond the shaft's predetermined rotation range.
- After the adjustment is finished, install Tank, and Fuel Cap.
- After assembly, perform V. R. setting in the Test Mode.

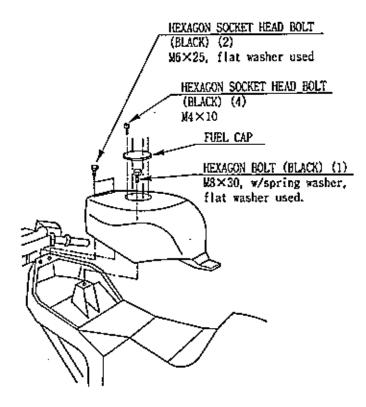
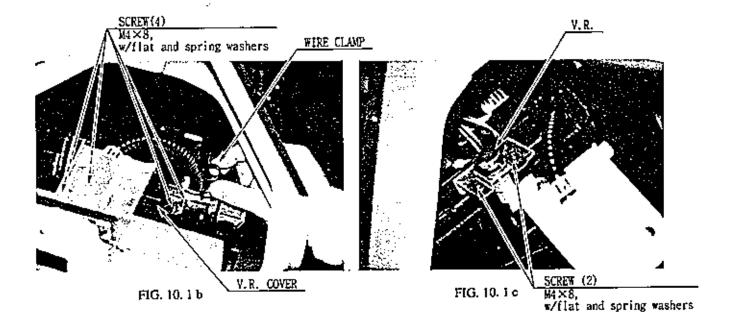


FIG. 10, 1 a



10-2 GREASING



Be sure to apply specified grease. Using grease other than that specified can damage parts.

In this machine, greasing need to be applied to the mobile parts once every 6 months. For spray grease, use NOK KLUBER L60 or GREASE MATE (Part No. 090-0060).

- Take out 2 each of screws and remove BANK GUARD L and R.
- ② Take out 4 screws and remove the VOLUME (V. R.) Cover (FIG. 10. 1 b).
- 3 Take out 3 each of screws and remove PROTECT COVER L and R.
- Apply greasing to the portions shown (FIG. 10. 2 c).

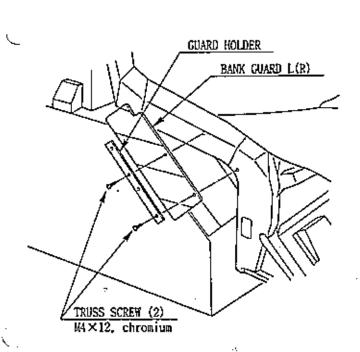


FIG. 10.2 a

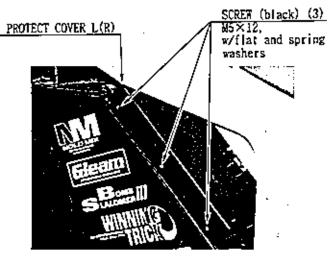


FIG. 10.2 b

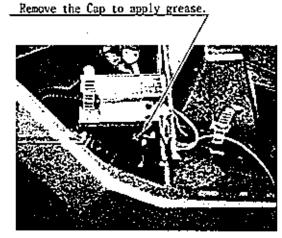


FIG. 10.2 c

10-3 REPLACEMENT OF BANK GUARD

For the replacement of the BANK GUARD, refer to 10-2.

11. COIN SELECTOR

HANDLING THE COIN JAM

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

CLEANING THE COIN SELECTOR

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

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

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

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



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

COIN INSERTION TEST

Once every month, when 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?

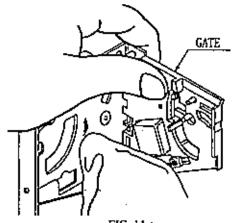


FIG. 11 a

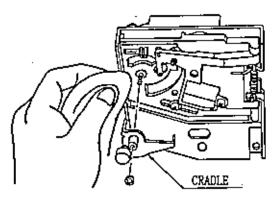


FIG. 11 b

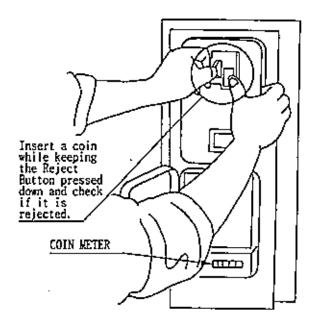


FIG. 11 c

12. MONITOR ADJUSTMENTS

CAUTIONS AND WARNINGS CONCERNING THE SAFETY FOR HANDLING THE MONITORS

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



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



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



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



Indicates the instruction to disconnect a power connector or to unplug.



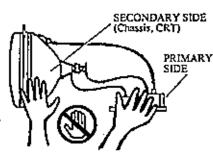
When performing such work as installing and removing the monitor, inserting and disconnecting the external connectors to and from monitor interior and the monitor, be sure to disconnect the power connector (plug) before starting the work. Proceeding the work without following this instruction can cause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

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



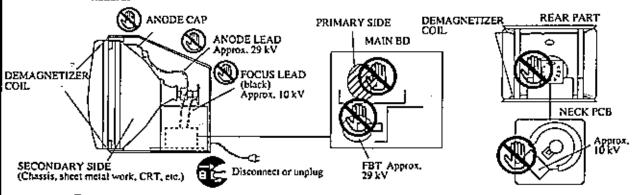
Primary side and Secondary side

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



malfunctioning, which is very dangerous.

High-tension Voltage
Some of the parts inside monitor are subject to high-tension voltage in excess of 20,000 volts and very dangerous. Therefore, do not touch the monitor interior. Should soldering & paper wastes, etc. be mixed in the monitor interior, turn the power off so as not to cause malfunctioning or fire



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



Static Electricity

hazant.

Touching the CRT surface sometimes causes you to slightly feel electricity. This is because the CRT surfaces are subject to static and will not adversely affect the human body.

Installation and removal

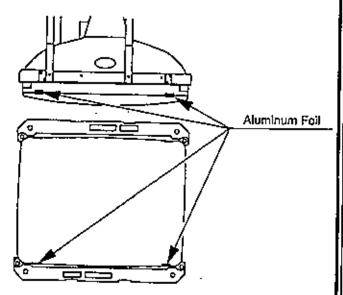
circumstances should it be disassembled,

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



For the purpose of static prevention, special coating is applied to the CRT face of this product. To protect the coating, pay attention to the following points. Damaging the coating film can cause electric shock to the customers. For the caution to be heeded when cleaning, refer to the Section of Periodic Inspection Table.

- Do not apply or rub with a hard item (a rod with pointed edge, pen, etc.) to or on the CRT surfaces.
- Avoid applying stickers, seals, etc. on the CRT face.
- Do not remove aluminum foils from the CRT corners. Removing the aluminum foils can cause static prevention effects to be lowered.

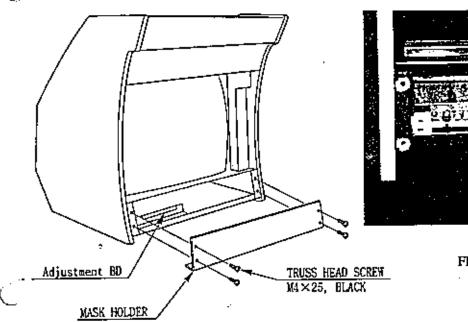




- Monitor adjustments have been made at the time of shipment. Therefore, do not make further adjustment without a justifiable reason. Adjusting the monitor which contains high tension parts is a dangerous work. Also, an erroneous adjustment can cause deviated synchronization and projection fault, resulting in malfunctioning.
- When making adjustment, utilize a resinous Alignment Screwdriver. Servicing with bare hand or using conductive tools can cause electric shock.

Remove the Mask Holder to make monitor adjustment.

There are 2 Monitor Manufacturers (NANAO and SANWA). The Adjustment Control Layout differs depending on the specific Maker. When performing the adjustment, check the Maker by referring to the following.



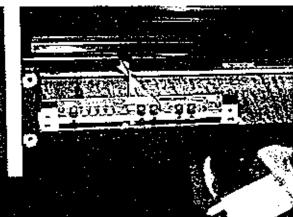
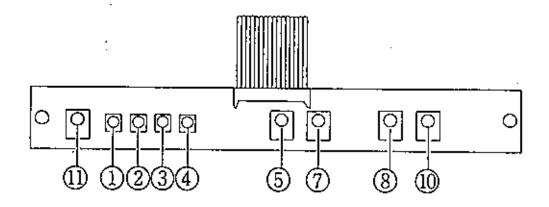


FIG. 12 b Adjustment BD

FIG. 12 a

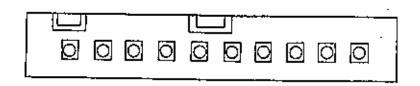
NANAO monitor:

2 0 0 - 5 2 4 2 - 2 4 - 0 4 (24K mode)



SANWA monitor;

2 0 0 - 5 2 4 3 - 2 4 (24K mode)



| $\overline{1}$ | 2 | 3 | 4 | <u>(5)</u> | 6 | 7 | 8 | 9 | 10 |
|----------------|--------|--------|--------|------------|--------|--------|--------|--------|--------|
| RGAIN | G GAIN | B GAIN | BRIGHT | H SIZE | H HOLD | H POSI | V SIZE | V HOLD | V POSI |

- ① R-GAIN
- ② G-GAIN Controls colors.
- 3 b-gain
- BRIGHT Controls screen brightness.
- H. SIZE Controls horizontal screen size.
- 6 H. HOLD Provides horizontal synchronization, i.e., controls right/left hold.
- 7 H. POSI Controls horizontal display position on screen.
- 8 V. SIZE Controls vertical screen size.
- 9 V. HOLD Provides vertical synchronization, i.e., controls up-down hold.
- O V. POSI Controls vertical display position on screen.
- CONTRAST Adjusts image contrast,

13. REPLACEMENT OF FLUORESCENT LAMP, AND LAMPS

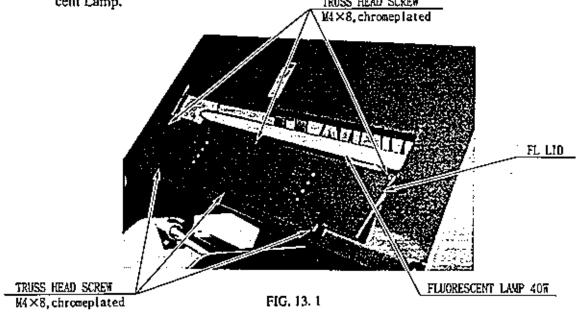


- When performing the work, be sure to turn power off. Working with power on can cause an electric shock or short circuit accident.
- Be sure to use lamps rated as specified. Using lamps not rated as specified can cause a fire or malfunctioning.
- Hot fluorescent lamp and lamps can cause burns. Be very careful when replacing them.

13-1 FLUORESCENT LAMP REPLACEMENT

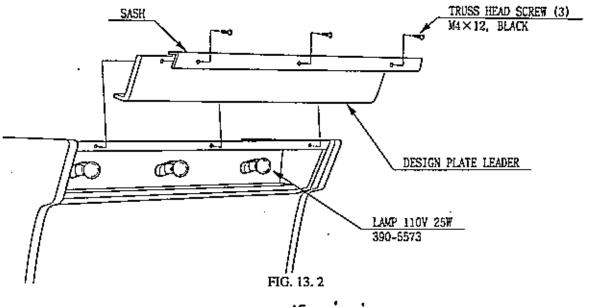
In the manner as shown, remove the FL LID and hang it on the Billboard to replace the Fluorescent Lamp.

TRUSS HEAD SCREW



13-2 LAMP REPLACEMENT

Remove the SASH and DESIGN PLATE LEADER to replace the lamps.



14. 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 a fire or electric shock.
- Periodically once a year, request the place of contact herein stated or the Distributor, etc. where the product was purchased from, as regards the interior 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 14

| ITEMS | DESCRIPTION | PERIOD | REFERENCE |
|------------------|-------------------------------|---------------------|------------|
| HANDLE MECHA | Check VOLUME VALUE. | Monthly | 8-4,9-1 |
| | Check SW. | Monthly | 8-4 |
| | Check ADJUST GEAR engagement. | Tri-monthly | 9-1 |
| | Greasing to gear portion. | Semi-yearly | 9-3 |
| BIKE MECHA | Check VOLUME VALUE. | Monthly | 8-4, 10-1 |
| | Check ADJUST GEAR engagement. | Tri-monthly | 10-1 |
| · | Greasing to gear portion. | Semi-yearly | 10-1 |
| COIN CHUTE DOOR | Check COIN SWes. | Monthly | 8-4 |
| | Coin insertion test. | Monthly | 11 |
| | COIN SELECTOR cleaning. | Tri-monthly | 11 |
| MONITOR | Check adjustments. | Monthly | 8, 12 |
| | Cleaning CRT face. | Weekly | See below. |
| POWER PLUG | Inspection and cleaning | Annually | See above. |
| INTERIOR | Cleaning | 7 1 | |
| Cabinet surfaces | Cleaning | As occasion arises, | See below, |

CAÚTIONS TO BE HEEDED WHEN CLEANING THE CRT SURFACES



Static preventive coating is applied to the CRT surfaces. When cleaning, pay attention to the following points. Peeling off of static preventive coat can cause electric shock.

- Remove smears by using a dry, soft cloth (flannels, etc.). Do not use a coarse gauze, etc.
- For smear removing solvent, alcohol (ethanol) is recommended.
 When using chemical detergent, be sure to follow instructions below:
- Dilute chemical detergent with water and dip a soft cloth in and then thoroughly wring it to wipe smears off.
- Do not use a chemical detergent containing an abradant, powder or bleaching agent.
- Do not use alkaline chemical detergents such as "glass cleaner," or solvents such as thinner, etc.
- Do not rub or scratch the CRT face with hard items such as brushes, scrub brush, etc.

CLEANING THE CABINET SURFACES

If the Cabinet is badly stained, use a cloth which is dipped in the chemical detergent liquid diluted with water and then squeezed dry. Do not use thinner, benzine, alcohol or chemical dusteloth as they can damage the Cabinet surfaces.

15. TROUBLESHOOTING

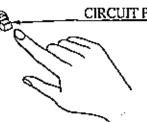


- In order to prevent an electric shock, be sure to turn power off before performing work by touching the interior parts of the product.
- Be careful so as not to cause damage to wirings. Damaged wiring can cause an electric shock or short circuit accident.

For troubleshooting, first check the connection of wiring connectors.

TABLE 15

| PROBLEMS | CAUSE | COUNTERMEASURES |
|--|---|---|
| When the main SW is turned ON, the machine is not activated. | The power is not ON. Incorrect power source/voltage. The CIRCUIT PROTECTOR functioned due to instantaneous overcurrent. | Firmly insert the plug into the outlet. Make sure that the power supply/voltage are correct. Remove the cause of overcurrent and reinstate the circuit protector to its original status (refer to Sec. 6, See below). |
| MONITOR screen is blackened and the fluorescent lamp does not light up. | Power supply unit fuse blown due to instantaneous overcurrent. | First remove the cause of overcurrent, then replace the fuse (See below). 514-5036-7000 FUSE 6.4 \$\next{ \$\neq \$\text{ \$000mA 125V}} |
| The color of image on MONITOR screen is incorrect. | Incorrect monitor adjustment, | Make appropriate adjustments (see Sec. 12). |
| The on-screen image of the monitor sways and or shrinks. | The power source and voltage are not correct. Power supply capacity is insufficient. | Make sure that the power supply and voltage are correct. Connect to a socket outlet of larger capacity. |



CIRCUIT PROTECTOR

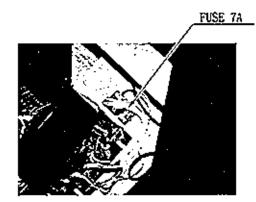
Functions due to the activation of bimetal. To restore the function, wait for approximately one minute or longer until the bimetal cools off. (Press the Button.)

REPLACEMENT OF FUSE



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

The Power Supply Unit is located inside the Elec door back of the Front cabinet. Disconnect all the Connectors connected to the Power Supply Unit, take out the 2 screws and withdraw the Power Supply Unit. The . fuse is contained in the Power Supply Unit.



| PROBLEMS | CAUSE | COUNTERMEASURES |
|--|--|---|
| Throttle/brake and | V. R. deviation or malfunctioning. | Adjust or replace the V, R. |
| operation is not satisfactory. | Poor mesh of ADJUST GEAR. | Adjust ADJUST GEAR mesh. (See Sec. 9.) |
| shift SW operation is not satisfactory. | SW malfunctioning. | SW replacement. |
| Fluorescent lamp doesn't light up. | Fluorescent lamp needs replacement. | Replace the fluorescent lamp (see Sec. 13), (391-5251-40-01 FL 40WEX) |
| Leader Lamp does not light up. | Lamp need replacement. | Replace Lamp (see Sec. 13). (390-5573 LAMP 110V 25W) |
| Communication check can not be finished. | Connection fault of Optic Fiber. | Check optic fiber connector connection, (Refer to Sec. 18). |
| Communication play | Communication cable is disconnected. | Connect the optic fiber. |
| is not possible. | Cable connections are not correct. | Connect the optic fiber correctly. |
| | Settings for communication play are not correct. | Ensure that COMMUNICATION SETTING settings are correct. |
| Sound is not emitted. | Sound volume adjustment is not correct. | Adjust the SWITCH UNIT's sound adjustment |
| | Malfunctioning of sound BD and memory. | volume (control). Perform SOUND TEST. |

16. GAME BOARD



- In order to prevent an electric shock, be sure to turn power off before performing work by touching the interior parts of the product.
- Be careful so as not to cause damage to wirings. Damaged wiring can cause an electric shock or short circuit accident.

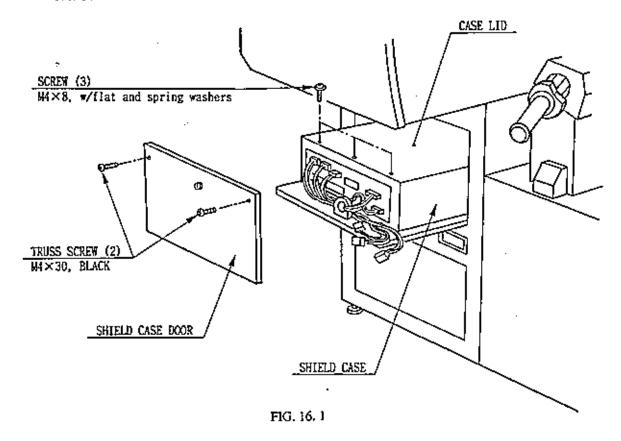


Do not expose the Game BD, etc. without a good reason. In this product, setting changes are made during the test mode. The Game BD need not be operated. Use the Game BD, etc. as is with the same setting made at the time of shipment.

16-1 TAKING OUT THE GAME BD.

When replacing or inspecting the Game BD, take out the Game BD by using the following procedure.

- Turn the AC Unit's Main SW OFF.
- ② Remove the 2 Truss Screws (black) from the side of the Front Cabinet, unlock with the Master Key to remove the door.
- 3 Disconnect all the connectors connected and withdraw the Shield Case.
- Take out the 3 screws to remove the Case Lid from the Shield Case. The Game Board can be viewed.



16-2 COMPOSITION OF GAME BOARD

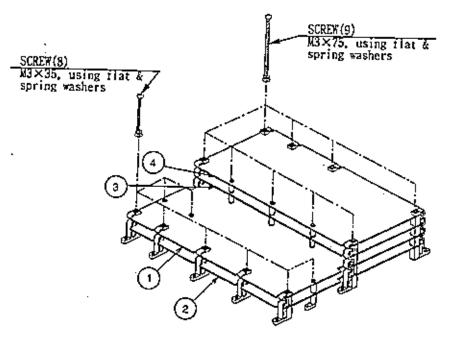
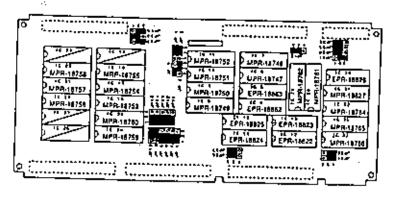


FIG. 16. 2

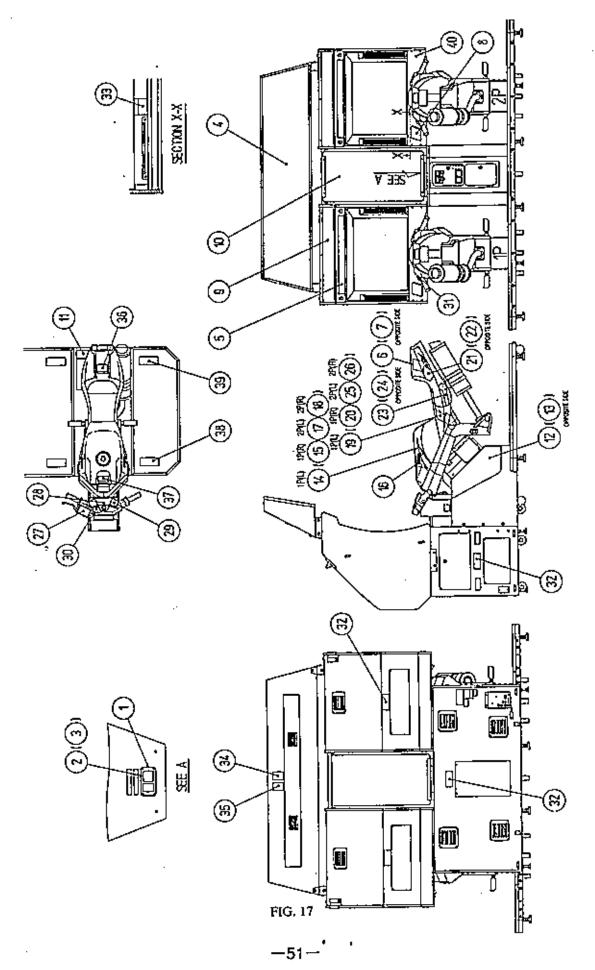
| No. | PART No. | DESCRIPTION |
|-----|-----------------|---------------------------|
| 1 | 837-10848-01-91 | MODEL2 A-CRX CPU BD COM |
| 2 | 837-10849-02 | MODEL2 A-CRX VIDEO BD COM |
| 3 | 837-12396 | COMM BD MANX T.T |
| 4 | 834-12467 | ROM BD MANX T.T TWIN |

ROM LAYOUT



ROM BD MANX T.T TWIN (834-12467)

17. DESIGN RELATED PARTS



```
DYN-0010
                                   DENOMI PLATE
  2
         421-7308-~
                                   DENOMINATION SHEET 1 GAME
         421-7308-~
                                   DENOMINATION SHEET 1 GAME ~
         423-0263
                                   BILLBOARD PLATE
  5
         422-0565-01
                                   PLAY INSTR SH TTR TWIN ENG
                                   STICKER No. 1-8 BIKE TIR TWIN L
STICKER No. 1-8 BIKE TIR TWIN R
STICKER FRONT No. 1-8
  6
         421-9041
  7
         421-9042
 8
         421-9014
  9
        TTR-1064
                                   DESIGN PLATE LEADER
 10
        TTR-0014
                                   DESIGN PLATE MAP
        TTR-1502-B
 11
                                   STICKER STEP CENTER
                                   STICKER REAR FRAME L
 12
        TTR-1502-C
 13
        TTR-1552-A
                                   STICKER REAR FRAME R
        TTR-3016-B
TTR-3016-C
 14
                                   STICKER TANK LINE RED L
                                   STICKER TANK LINE RED R
STICKER SEGA LOGO BLUE STM30
 15
 16
        TTR-3016-D
        TTR-3017-A
TTR-3017-B
TTR-3055-A
TTR-3055-B
 17
                                   STICKER TANK LINE BLUE L
 18
                                   STICKER TANK LINE BLUE R
                                  STICKER TANK LINE BLUE R
STICKER SEAT LINE RED L
STICKER SEAT LINE RED R
STICKER NO. BASE TWIN L
STICKER NO. BASE TWIN R
STICKER SEAT COWL SPO A
STICKER SEAT COWL SPO B
STICKER SEAT LINE BLUE L
 19
 20
        TTR-3055-C
TTR-3055-D
 21
 22
23
24
        TTR-3051-G
        TTR-3051-H
25
        TTR-3058-A
                                  STICKER SEAT LINE BLUE R
26
        TTR-3058-B
27
                                  STICKER BRAKE
        TTR-3003-B
                                  STICKER START
STICKER TOP BRIDGE
STICKER CARBON
STICKER SHIFT UP/DOWN
28
        TTR-3004-B
29
       TTR-3004-C
30
       TTR-3004-D
31
       421-9016
32
       440-WS0033-EG
440-CS0053-EG
                                  STICKER W BD POWER OFF ENG
33
                                  STICKER C NOT TOUCH W/O KNOB S ENG
STICKER W POWER OFF ENG
34
       440-WS0002XEG
35
       440-WS0012XEG
                                  STICKER W HIGHT TEMP ENG
       440-WS0040-EG
36
                                  STICKER W TTR A ENG
37
       440-WS0042-EG
                                 STICKER WITTR C ENG
                                 PLATE W FOOT MAT ENG
PLATE W THIS AREA ENG
STICKER MASK HOLDER
38
       440-WP0057-EG
39
       440-WP0058-EG
40
       TTR-1063-B
```

ł

18. COMMUNICATION PLAY

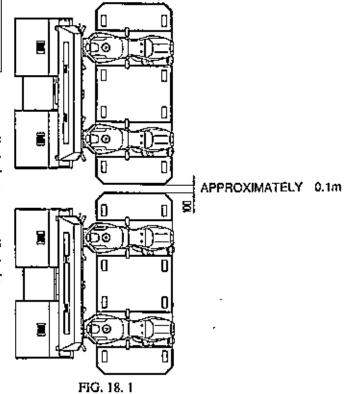
For this game, 4 machines can be connected to allow up to 8 players to play simultaneously.



Mixed communication between TWIN type and DX type is not allowed.

18-1 INSTALLATION PRECAUTIONS

- When linking a number of machines, be sure to supply sufficient power for the corresponding number of machines. The per unit standard voltage/amperage is 100~ 120V/10A and 200~240V/7A.
- Due to the length of the communications cable, the distance in between the machines will be approximately 0.1 meters or less.



18-2 CONNECTING THE COMMUNICATION CABLES

The PROTECT TUBE is used to link plural machine units and the communication cables are caused to pass through the PROTECT TUBE. Depending on the number of machine units to be linked, connect the communication cables (optic fiber cables) in the manner shown in Figures 18.2f and 18.2g.

① By taking off 2 screws, remove the HOLE LID of the side where the PROTECT TUBE is to be installed.

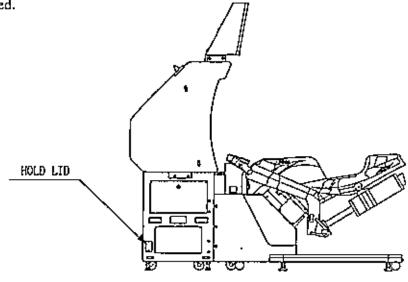
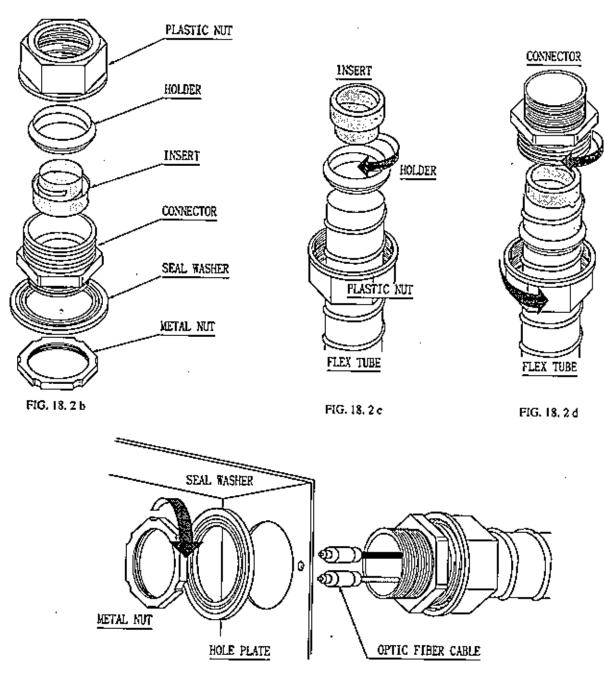


FIG. 18.28

- ② Attach CONNECTOR 22 to the both ends of FLEX TUBE, and assemble the PROTECT TUBE. First, disassemble CONNECTOR 22 (Fig.18.2b).
- First pass the plastic nut through the flex tube. Otherwise, the following work can not be performed and therefore, be very careful of this point.
- ① Install the holder and then the "insert" for both ends of the flex tube by turning them as in bolts and nuts (Fig.18.2c).
- Tighten the plastic nut to the connector. At this time, pass the optic fiber cable through the flex tube ahead of time so as to allow the following work to be performed easily (Fig.18.2d).
- ⑤ Install the PROTECT TUBE into the HOLE PLATE (TTR-0015) HOLE. Insert the connector into the HOLE PLATE HOLE, put the seal washer through and fasten the metal nut (Fig. 18.2e).



FfG. 18. 2 c

② Connect the communication cable. Redo the connection which is currently made for TWIN (for 2P LINK) to change it for usage.

Depending on the number of units to be connected, communication connections are different. Make connection correctly as shown below.



The optic fiber cable is used for the communication linkage. Excessive bending may damage the communication cable. Be very careful in this regard.

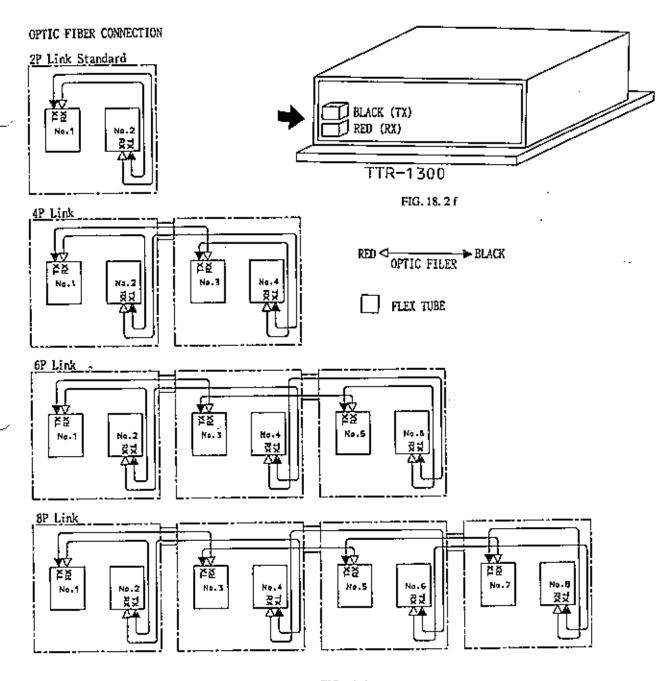


FIG. 18, 2 g

- 8 By using the 2 screws, install the Hole Plate to the position where the Hole Lid was.
- Apply the numeral Stickers (an accessory) to both sides of the Seat Cowl and Monitor's lower left-hand side in the manner so that as seen from the front (monitor side) of the connected machines, the numbers line up sequentially in order of 1, 2, 3 ··· starting from the leftmost Seat (refer to Section 17).

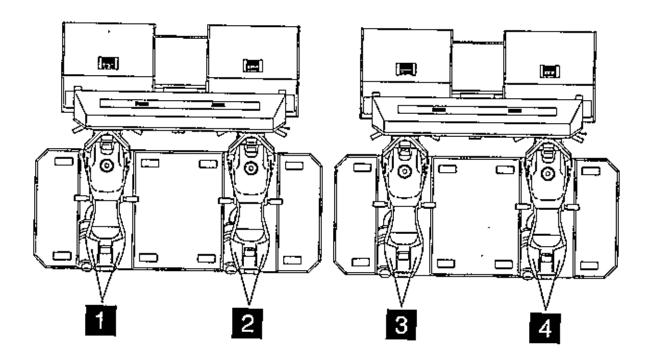


FIG. 18.2 h

18-3 SETTINGS FOR COMMUNICATION PLAY



During communication play, if communication is interrupted due to a certain cause, game will be discontinued, resulting in the Network check mode appearing on the screen.

For interactive play, the settings of GAME ASSIGNMENTS need to be changed. One of the Seats should be determined as MASTER (normally the leftmost Seat) and set LINK TYPE to MASTER. All other Seats are set to SLAVE. Thereafter, the other Seats' settings of COUNTRY, GAME MODE, **** NUMBER OF LAP, GAME DIFFICULTY and REVISE MODE will be made the same as the settings of the MASTER Seat. Setting to COUNTRY, etc. by the SLAVE Seats is ineffective. Next, set BIKE color as follows starting from the leftmost Seat:

RED (No. 1), BLUE (No. 2), YELLOW (No. 3), GREEN (No. 4) GREEN (No. 5), YELLOW (No. 6), BLUE (No. 7), RED (No. 8)

At this time, be very careful so that an identical number is not used for 2 or more Seats. Finishing settings for all seats allows for exiting from the Test mode, and then network check starts. When the Network check is finished, proceed to the ADVERTISE mode.

```
GAME ASSIGNMENTS
ADVERTISE SOUND
                                JAPAN
COUNTRY
CABINET
                                  TWIN
LINK TYPE
BIKE COLOR
                                d (No.
 AME MODE
                                RACE
        NUMBER OF LAP
ME DIFFICULTY
                                NORMAL
          REVISE
     NUMBER OF LAPT (
GAME DIFFICULTY: (
                                   ,
                                NORMAL
                   MODE: (
          REVISE
                                 1/3
OF F
        SWITCH OF.
START
EXIT
     SELECT BY
                  SERVICE BUTTON
            PUSH TEST BUTTON
```

FIG. 18.3

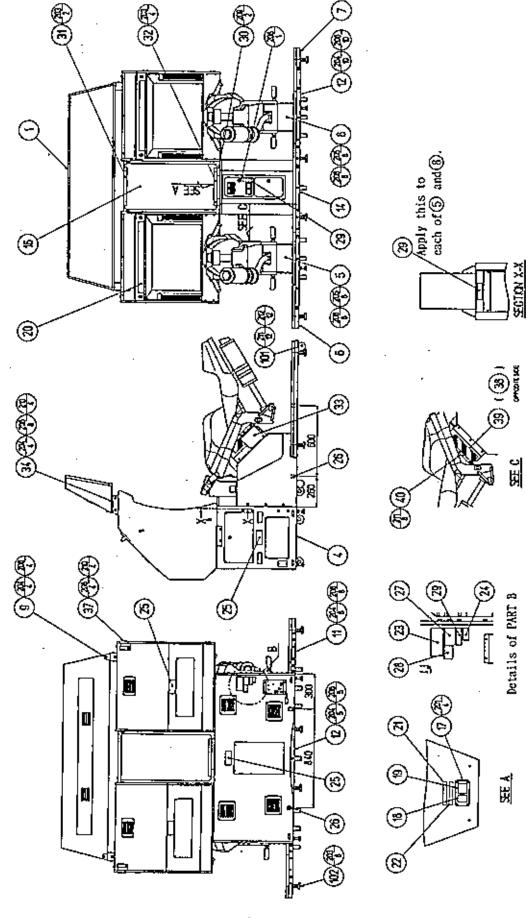
18-4 CAUTIONS TO BE HEEDED WHEN USING THE TEST MODE:

Exiting from the test mode causes the unit to perform the network check automatically. During this time, all of the linked units will not allow the game to be played in normal status. Therefore, be sure not to enter the test mode if any one of the units is in play.

19. PARTS LIST

1 TOP ASSY MANX T.T. TWIN

(D-1/3)



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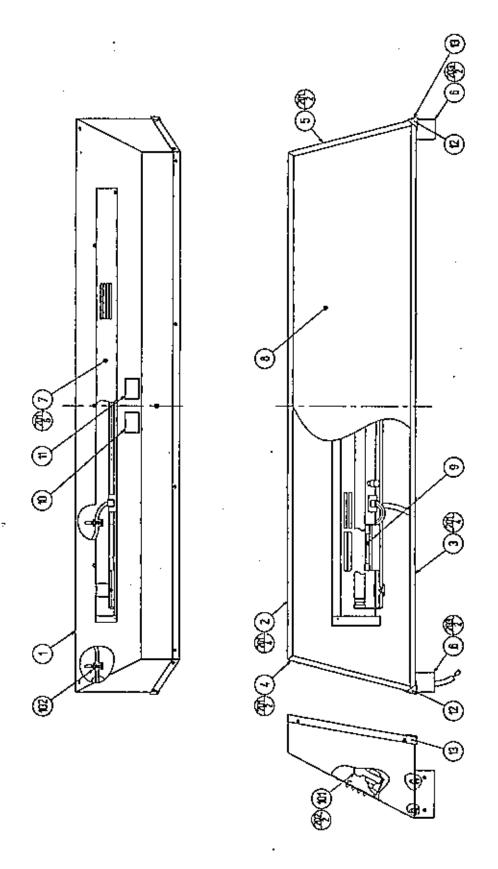
1 TOP ASSY MANX T.T. TWIN

| ITBM NO. | PART NO. | DESCRIPTION | NOTE |
|------------|---------------|----------------------------------|--------|
| 1 | TTR-0200 | ASSY BILLBOARD | |
| 4 | TTR-10001 | ASSY FRONT CABINET | |
| 5 | TTR-1500 | ASSY BIKE MECHA L | |
| Ġ | TTR-1530 | ASSY FLOOR L | |
| 7 | TTR-1540 | ASSY FLOOR R | |
| 8 | TTR-1550 | ASSY BIKB MBCHA R | |
| 9 | TTR-0007 | BILLBOARD BRKT | |
| 11 | TTR-0009 | FLOOR BRKT F | |
| 12 | TTR-0010 | FLOOR BRKT R | |
| 14 | TTR-1520 | ASSY FLOOR C | |
| 16 | TTR-0014 | DESIGN PLATE MAP | |
| 17 | DYN-0010 | DENOMI PLATE | |
| 19 | 421-7308 ~ | DENOMINATION SHEET 1 GAME ~ | |
| 20 | 422-0565-01 | PLAY INSTR SH TTR TWIN ENG | |
| 24 | 421-6594-91 | STICKER CERTIFICATE | |
| 25 | 440-WS0033-EG | STICKER W BD POWER OFF ENG | |
| 26 | 421-8885 | STICKER CAUTION FORK | |
| 27 | 421-7987 | STICKER BLEC SPEC | OTHERS |
| 5 . | 421-8408 | STICKER BLEC SPEC FOR TAIWAN | TAIWAN |
| 29 | 421-7988-91 | STICKER SERIAL NUMBER | |
| 30 | TTR-0016 | MAP HOLDER | |
| 31 | TTR-0017 | MAP SASH UPPBR | |
| 32 | TTR-0018 | MAP SASH LOWER | |
| 33 | TTR-0020 | SHIPPING BRKT | |
| 34 | TTR-0021 | STAND SUPPORT | |
| 35 | SGM-4403 | POLY COYER 1100×2200×1700 | |
| 36 | SGM-4404 | POLY COVER 1500×500×1000 | |
| 37 | BVG-0033 | SHIPPING BRKT S | |
| 38 - | TTR-0025 | BANK GUARD L | |
| 39 | TTR-0026 | BANK GUARD R | |
| 40 | TTR-0027 | GUARD HOLDER | |
| 101 | 601-5471 | CASTER | |
| 102 | 601-5882 | LEG ADJUSTER BOLT | |
| 201 | 000-T00408-0B | M SCR TH BLK M4×8 | |
| 203 | 030-T00408-0C | M SCR TH CRM M4×8 | |
| 204 | 030-000820-SB | HBX BLT W/S BLK M8×20 | |
| 205 | 030-000860-SB | HEX BLT W/S BLK M8×60 | |
| 206 | 068-852216-08 | FLT WSKR BLK 8,5-22×1.6 | |
| 209 | 000-P00520-WB | M SCR PH W/FS BLK M5×20 | |
| 210 | 030-000830-SB | HBX BLT W/S BLK M8×30 | |
| 211 | 000-T00412-0C | M SCR TH CRM M4×12 | |
| 401 | 601-6604-70 | CARTON BOX 70 | |
| 402 | 420-6207-03 | OWNERS MANUAL MANX T.T. TWIN BNG | |
| 403 | SGM-2675 | POLYBTHYLENE BAG 240×370 | |
| 404 | 220-5381 | KEY MASTER FOR 220-5380 | |
| 405 | SGM-4111 | KEY BAG | |
| 407 | 220-5373 | VOL CONT B-5K OHM | |
| | 220-5484 | VOL CONT B-5K OHM | |
| 409 | 421-9041 | STICKER No. 1~8 BIKE TTR TWIN L | |
| | | | |

1 TOP ASSY MANX T.T. TWIN

(D-3/3)

| ITEM NO. | PART NO. | DESCRIPTION | NOTB |
|----------|-----------------|--|-----------------|
| 410 | 421-9042 | STICKER No. 1~8 BIKE TTR TWIN R | |
| 411 | 421-9014 | STICKER FRONT No. 1~8 | |
| 412 | 514-5036-7000 | FUSE 6, 4 \$\phi \times 30 7000mA 125V | |
| 414 | TTR-0015 | HOLE PLATE | |
| 415 | 310-5050-220110 | PLBX TUBE 22-0110CM | |
| 416 | 310-5051-22 | CONN 22 | |
| 418 | TTR-0023 | SHIPPING BRKT CABI | |
| 419 | 030-000830-0B | HEX BELT W/S BLK M8×30 | |
| 420 | 068-852216-0B | FLT WSHR BLK 8, 5-22×1, 6 | |
| / | GPD-0002X | SHIPPING BRACKET | |
| | TTR-0024 | SHIPPING BRKT | |
| / | 030-000820-S | HEX BLT W/S M8×20 | |
| / | 060-F00800 | FLT WSHR M8 | |
| | 421-6690 ~ | STICKER ~V | |
| / | 600-6618 | AC CABLE CONNECT TYPE FOR EXP | AC220~240V AREA |
| / | 421-6119-91 | STICKER FCC | 1 USA |
| / | 421-6120-91 | STICKER SEGA USA | } |

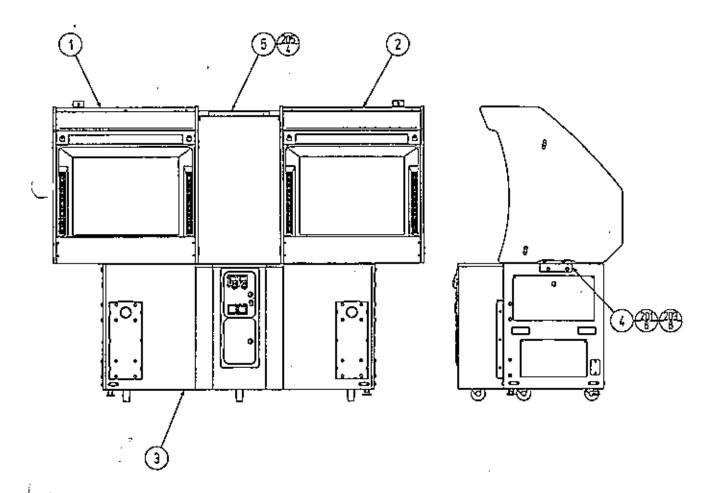


2 ASSY BILLBOARD (TTR-0200)

(0-2/2)

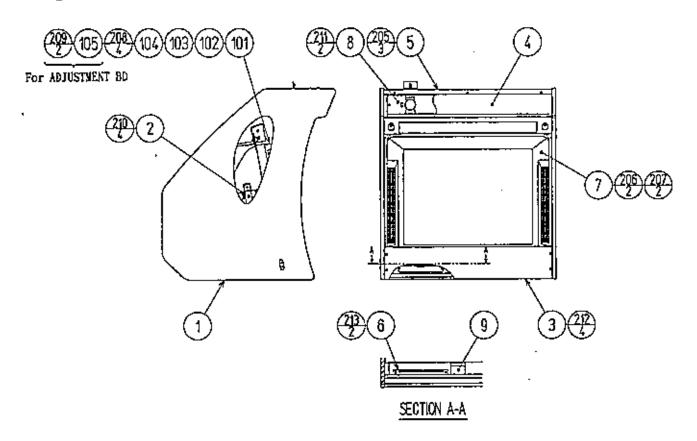
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|--------------------------------------|---------------|---------------------------|------|
| 1 | TTR-0201 | BILLBOARD BOX | |
| 2 | TTR-0202 | CORNER SASH UPPER | |
| 3 | TTR-0203 | CORNER SASH LOWER | |
| 4 | TTR-0204 | CORNER SASH LEFT | |
| 5 | TTR-0205 | CORNER SASH RIGHT | |
| 2 3 4 5 6 7 8 9 | TTR-0206 | BILLBOARD STAND | |
| 7 | TTR-0207 | FL LID | |
| 8 | 423-0263 | BILLBOARD PLATE | |
| | 421-7501-10 | STICKER FL40W | |
| 10 | 440-WS0002XEG | STICKER W POWER OFF BNG | |
| 11 | 440-WS0012XEG | STICKER W HIGH TEMP ENG | |
| 12 | TTR-0208 | EDGE CUSHION F | |
| 13 | TTR-0209 | EDGE CUSHION S | |
| 101 | 390-5538-40BX | ASSY FL40W BX W/CONN HIGH | |
| 102 | 280-5009 | CORD CLAMP \$\phi 21\$ | |
| 201 | 000-T00408-0C | M SCR TH CRM M4×8 | |
| 202 | 000-P00416-W | M SCR PH W/FS M4×16 | |
| 203 | 030-000820-\$ | HEX BLT W/S M8×20 | |
| 301 | 600-6697-19 | WIRE HARN BILLBOARD | |

3 ASSY FRONT CABINET (TTR-10001)

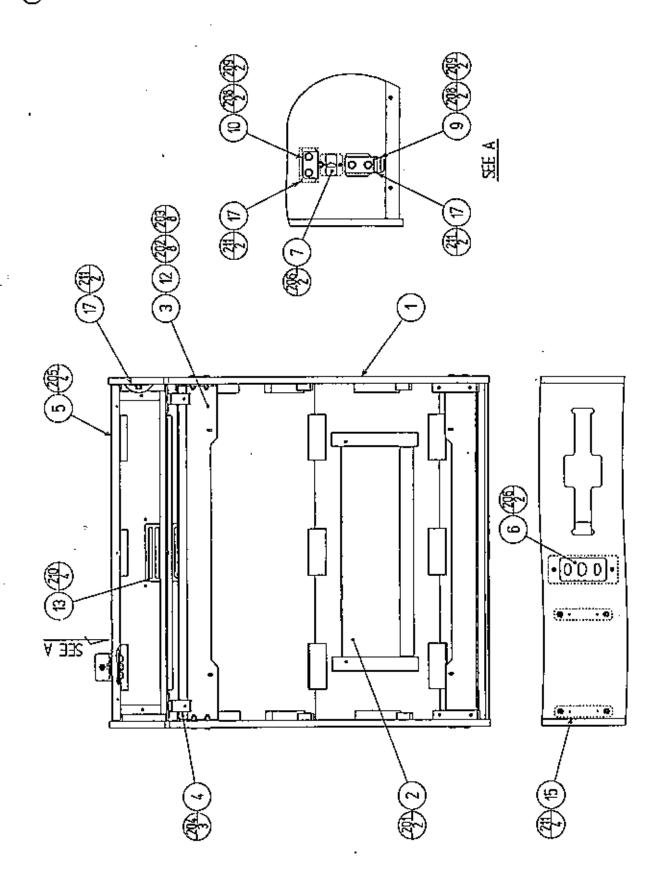


| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|-----------------------|--|---|------|
| 1 2 3 4 5 | TTR-1050 TTR-1070 TTR-1200 TTR-1018 TTR-0011 | ASSY MONITOR L ASSY MONITOR R ASSY FRONT CABINET LOWER MONITOR LOCK BRKT JOINT PIPE UPPER | |
| 201 203 205 | 030-000840-SB 060-F00800-0B FAS-300007 | HEX BLT W/S M8×40 FLT WSHR BLK M8 HBX BLT CRM W/FS M8×40 | |

ASSY MONITOR L (TTR-1050)



| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|--------------------------------------|----------------|------------------------------------|------|
| 1 | TTR-1051 | ASSY SUB CABI MONITOR L | |
| 2 | TTR-1090 | ASSY SPEAKER | |
| 3 | TTR-1063 | MASK HOLDER | |
| à | TTR-1064 | DESIGN PLATE LBADER | |
| 1 2 3 4 5 6 7 8 | TTR-1065 | SASH | |
| 6 | TTR-1066 | ADJUST PANEL | |
| 7 | TTR-1067 | MONITOR MASK | |
| 8 | TTR-1080 | LAMP UNIT | |
| 9 | 440-CS0053-BG | STICKER C NOT TOUCH W/O KNOB S BNG | |
| 101 | 200-5242-24-04 | ASSY CLR DSPL 29 TYPE 24K 100V | |
| | 200-5243-24 | ASSY CLR DSPL 29 TYPB 24K 100Y | |
| 102 | 280-5112 | BUSH FOR TV | |
| 103 | 280-5113 | COLLAR FOR TV | |
| 104 | 280-5114 | SPACER 6, 4-25×2 | |
| 105 | 280-5185-6 | SPACER TUBE L=6 | |
| 205 | 000-T00412-0B | M SCR TH BLK M4×12 | |
| 206 | 000-T00530-0B | M SCR TH BLK M5×30 | |
| 207 | 068-552016-08 | PLT WSHR BLK 5, 5-20×1, 6 | |
| 208 | 050-F00600 | FLG NUT M6 | |
| 209 | 000-P00312-WB | M SCR PH W/FS BLK M3×12 | |
| 210 | 000-200416-W | M SCR PH W/FS M4×16 | |
| 211 | 000-P00440-W | M SCR PH W/FS M4×40 | |
| 212 | 000-T00425-0B | M SCR TH BLK M4×25 | |
| 213 | 011-P03512 | TAP SCR PH 3.5×12 | |
| | | | |

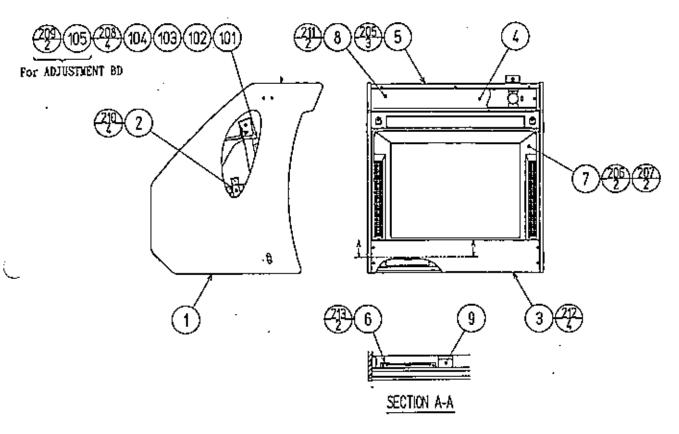


3 ASSY SUB CABI MONITOR L (TTR-1051)

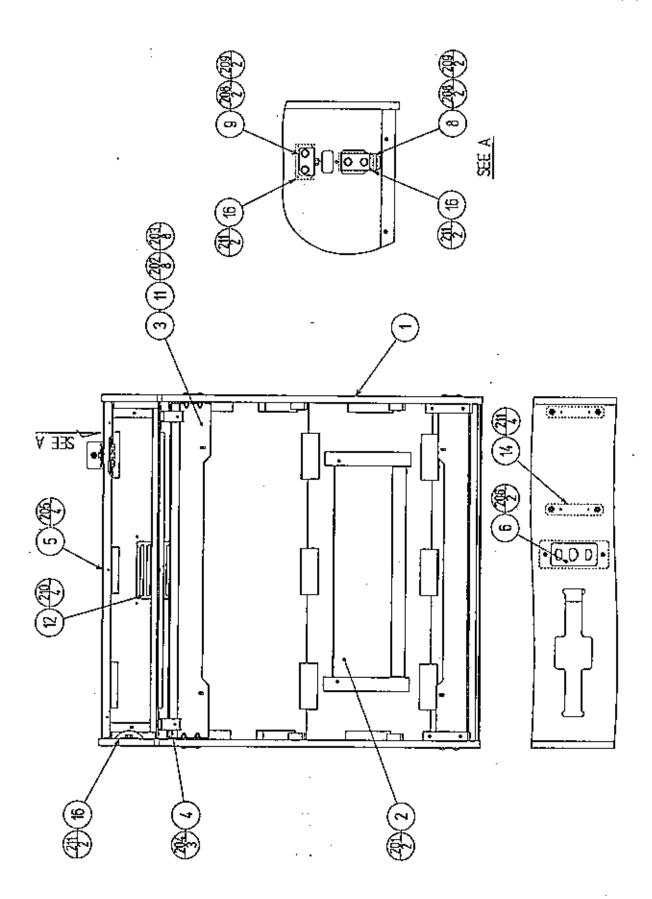
(0-2/2)

| TEM NO. | PART NO. | DESCRIPTION | NOTE |
|-------------|---------------|---------------------------|------|
| 1 | TTR-1052 | MONITOR BOX L | |
| 2 3 | TTR-1053 | MONITOR BACK LID | |
| 3 | TTR-1054 | MONITOR SUPPORT | |
| 4 | TTR-1055 | MASK SUPPORT | |
| 5 6 7 | TTR-1056 | SASH HOLDER | |
| 6 | . TTR-1057 | CONN PLATE CABI | |
| 7 | TTR-1058 | CONN PLATE FL | |
| 9 | TTR-1060 | BILLBOARD HOOK | |
| 10 | TTR-1061 | BILLBOARD HOLDER | |
| 12 | 117-5235 | PLATE 6-30 | |
| 13 | UP-1018 | AIR VENT | |
| 15 | TTR-1008 | NUT PLATB 2-M3 | |
| 17 | DYN-2121 | NUT PLATE 2-M8 | |
| 101 | 280-0416 | HARNESS LUG | |
| 102 | 280-5009 | CORD CLAMP Ø 21 | |
| 201 | 000-T00430-0B | M SCR TH BLK M4×30 | |
| 202 | 031-000630-0C | CRG BLT CRM M6×30 | |
| 203 | 050-F00600 | FLG NUT M6 . | |
| 204 | 000-T00416-0B | M SCR TH BLK M4×16 | |
| 205 | 000-F00416 | M SCR FH M4×16 | |
| 206 | 000-P00425-WB | M SCR PH W/FS BLK M4×25 | |
| 208 | 030-000830-SB | HEX BLT W/S BLK M8×30 | |
| 209 | 060-F00800-0B | PLT WSHR BLK M8 | |
| 210 | 000-T00420-0B | M SCR TH BLK M4×20 | |
| 211 | 011-T03512 | TAP SCR TH 3.5×12 | |
| 212 | 011-T00310 | TAP SCR Til 3×10 | |
| 213 | 011-F00310 | TAP SCR FH 3×10 | |
| 301 | 600-6697-13 | WIRE HARN MONITOR L1 | |
| 302 | 600-6697-14 | WIRE HARN MONITOR L2 | |
| 303 | 600-6697-28 | WIRE HARN BARTH MONITOR L | |

6 ASSY MONITOR R (TTR-1070)



| 1TEM NO. | PART NO. | DESCRIPTION | NOTB |
|---------------------------------|----------------|------------------------------------|------|
| 1 | TTR-1071 | ASSY SUB CABI MONITOR R | |
| 2 | TTR-1090 | ASSY SPEAKER | |
| 3, | TTR-1063 | MASK ROLDER | |
| 4 | TTR-1064 | DBSIGN PLATE LEADER | |
| 2 3 4 5 6 7 8 | TTR-1065 | SASH | |
| 6 | TTR-1066 | ADJUST PANEL | |
| 7 | TTR-1067 | MONITOR MASK | |
| 8 | TTR-1080 | LAMP UNIT | |
| 9 | 440-CS0053-BG | STICKER C NOT TOUCH W/O KNOB S ENG | |
| 101 | 200-5242-24-04 | ASSY CLR DSPL 29 TYPB 24K 100V | |
| | 200-5243-24 | ASSY CLR DSPL 29 TYPB 24K 100V | |
| 102 | 280-5112 | BUSH FOR TV | |
| 103 | 280-5113 | COLLAR FOR TV | |
| 104 | 280-5114 | SPACER 6.4-25×2 | |
| 105 | 280-5185-6 | SPACER TUBE L=6 | |
| 205 | 000-T00412-0B | M SCR TH BLK M4×12 | |
| 206 | 000-T00530-0B | M SCR TH BLK M5×30 | |
| 207 | 068~552016-0B | FLT WSHR BLK 5.5-20×1.6 | |
| 208 | 050-P00600 | FLG NUT M6 | |
| 209 | 000-P00312-WB | M SCR PH W/FS BLK M3×12 | |
| 210 | 000-P00416-W | M SCR PH W/FS M4×16 | |
| 211 | 000-P00440-W | M SCR PH W/FS M4×40 | |
| 212 | 000-P00425-0B | M SCR TH BLK M4×25 | |
| 213 | Q11-P03512 | TAP SCR PH 3, 5×12 | |
| | | | |

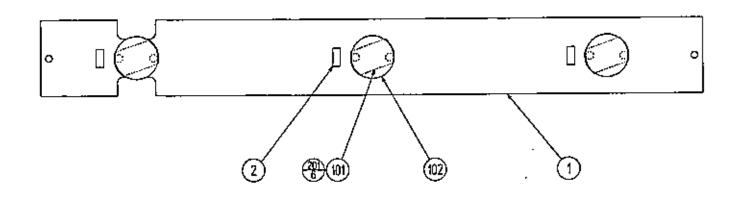


7 ASSY SUB CABI MONITOR R (TTR-1071)

(0-2/2)

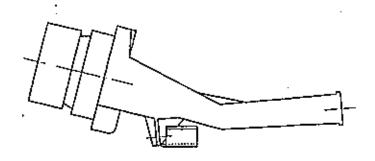
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|----------|---------------|---------------------------|------|
| 1 | TTR-1072 | MONITOR BOX R | |
| 2 | TTR-1053 | MONITOR BACK LID | |
| . 3 | TTR-1054 | MONITOR SUPPORT | |
| 4 | TTR-1055 | MASK SUPPORT | |
| 5 | TTR-1056 | SASH HOLDER | |
| 6 | TTR-1057 | CONN PLATE CABI | |
| 8 9 | TTR-1060 | BILLBOARD HOOK | |
| | TTR-1061 | BILLBOARD HOLDER | |
| 11 | 117-5235 | PLATE 6-30 | |
| 12 | UP-1018 | AIR VENT | |
| 14 | TTR-1008 | NUT PLATE 2-M8 | |
| 16 | DYN-2121 | NUT PLATE 2-M8 | |
| 101 | 280-0419 | HARNESS LUG | |
| 102 | 280~5009 | CORD CLAMP ≠21 | |
| 201 | 000-T00430-0B | M SCR TH BLK M4×30 | |
| 202 | 031-000630-0C | CRG BLT CRM M6×30 | |
| 203 | 050-F00600 | FLG NUT M6 | |
| 204 | 000-T00416-0B | M SCR TH BLK M4×16 | - |
| 205 | 000-F00416 | M SCR FH M4×16 | |
| 206 | 000-P00425-WB | M SCR PH W/FS M4×25 | |
| 208 | 030-000830-SB | HEX BLT W/S BLK M8×30 | |
| 209 | 060-F00800-0B | FLT WSHR BLK M8 | |
| 210 | 000-T00420-0B | M SCR TH BLK M4×20 | |
| 211 | 011-T03512 | TAP SCR TH 3.5×12 | |
| 212 | 011-T00310 | TAP SCR TH 3×10 | |
| 213 | 011-T00310 | TAP SCR FH 3×10 | |
| 301 | 600-6697-17 | WIRE HARN MONITOR R1 | |
| 302 | 600-6697-18 | WIRE HARN MONITOR R2 | |
| 303 | 600-6697-29 | WIRE HARN BARTH MONITOR R | |

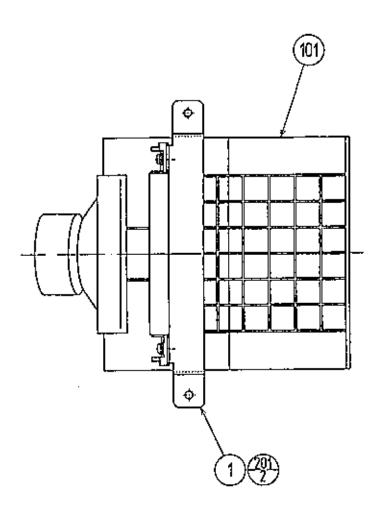
8 LAMP UNIT (TTR-1080)



| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|-------------------|----------------------------------|--|------|
| 1 2 | TTR-1081 421-7501-01 | LAMP BASE STICKER 110V 25W | |
| 101 102 103 | 214-0184 390-5573 280-0419 | LAMP SOKET E17 LAMP 110V 25W HARNESS LUG | |
| 201 202 | 011-P00320 011-T00310 | TAP SCR PH 3×20 TAP SCR TH 3×10 | |
| 301 | 600-6697-16 | WIRE HARN LBADER LAMP | |

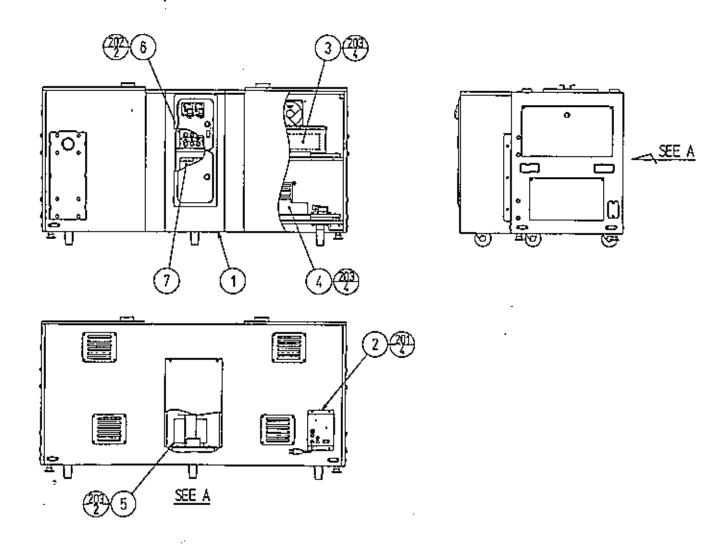
ASSY SPEAKER (TTR-1090)



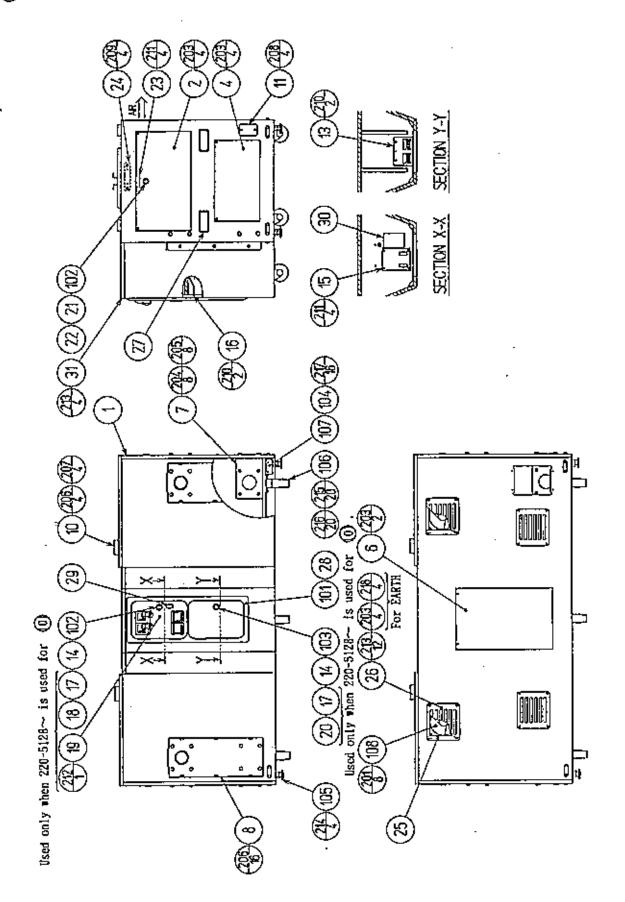


| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|----------|--------------|-----------------------|------|
| 1 | TTR-1091 | SPBAKER BRKT | |
| 101 | 130-5140 | SPEAKER BOX MINI DOMB | |
| 201 | 000-P00412-W | M SCR PH W/FS M4×12 | |
| 301 | 600-6697-15 | WIRE HARN SPEAKER | |
| | | | |

10 ASSY FRONT CABINET LOWER (TTR-1200)



| ITBM NO. | PART NO. | DESCRIPTION | NOTE |
|-----------------------|--|---|---|
| 1 2 | TTR-1201 TTR-1250 TTR-1260 TTR-1270 | ASSY SUB CABINET LOWER AC UNIT AC UNIT EXP 220V AC UNIT EXP 240V | AC110~120V AREA AC220V AREA AC240V AREA |
| 3 4 5 6 7 | TTR-1300 TTR-4300 TTR-4400 DYN-0350 253-5366 | ASSY SHIBLD CASE ASSY PWR SPLY ASSY ELEC SW UNIT CASH BOX | |
| 101 | 600-6275-0700 | ASSY FIBER CABLE ϕ 5 0700CM | |
| 201 - 202 203 | 000-T00420-0B 000-P00416-W 000-P00530-W | M SCR TH BLK M4×20 M SCR PH W/FS M4×16 M SCR PH W/FS M5×30 | |



(1) ASSY SUB CABINET LOWER (TTR-1201)

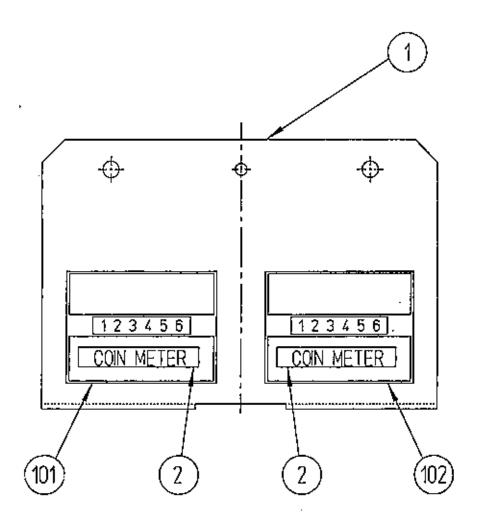
| | | PROGRAMMENT OF | MOTO |
|------------------|---------------|-------------------------------|--------------------|
| ITEM NO. | PART, NO. | DESCRIPTION | NOTE |
| 1 | TTR-1202 | WOODEN CABINET LOWER | |
| | TTR-1203 | SHIELD CASE DOOR | |
| 2 4 6 7 | TTR-1205 | PWR SPLY DOOR | |
| 6 | TTR-1207 | ELEC DOOR | |
| 7 | TTR-1208 | NUT PLATE 6-M8 | |
| 8 | TTR-1209 | JOINT BRKT | |
| 10 | TTR-1211 | GUIDE BRKT | |
| îĭ | TTR-1212 | KOLE LID | |
| 13 | 610-0395 | METER UNIT W | |
| 14 | DP-1167 | TNG LKG | |
| 15 | 105-5172 | CHUTE PLATE DOUBLE | |
| 16 | 105-5169 | LOCK BRACKET W | |
| 17 | HN-1050 | SPACER RING |) Used only when |
| 19 | 109-0045-91 | KBY HOLDER | } 220-5128~is used |
| 20 | 105-5201 | MAGNETIC LOCK BRKT FOR ASAHI | for 101. |
| 21 | DP-1148X | LKG TNG | |
| 22 | 117-0062 | PLATE LOCK RETAINER | |
| 23 | 117-5098 | TNG RETAINER PLATE | |
| 24 | TTR-1008 | NUT PLATE 2-M8 | |
| 25 | HN-1042X | FAN BRKT | |
| 26 | UP-1018 | AIR VENT | |
| 27 | 253-5396 | CABINET HANDLE | |
| 28 | 421-7501-02 | STICKER 6. 3V 0. 15A | |
| 30 | 440-WS0002XEG | STICKER W POWER OFF ENG | |
| 31 | TTR-0013 | CENTER PLATE | |
| 101 | 220-5128 ~ | ASSY COIN CHUTE 2DOOR ~ | |
| 102 | 220-5380 | MAG LOCK MASTER W/O KEY | |
| 103 | 220-5046-91 | MAGNETIC LOCK W/KBYS | |
| 104 | 117-5233 | PLATE LEG BRACKET BLACK | |
| 105 | 501-5699X | LEG ADJUSTER BOLT M16×75 | |
| 106 | 601-6224 | CASTER ≠75 | |
| 107 | ARC-1006 | LEG BRACKET | |
| 108 | 260-0011-02 | AXIAL FLOW FAN AC100V 50-60Hz | |
| 109 | 280-5009 | CORD CLAMP ϕ 21 | |
| 110 | 280-0419 | HARNESS LUG | |
| 111 | 601-0460 | PLASTIC TIB BELT 100MM | |
| 112 | 280-5008 | CORD CLAMP ∮15 | |
| 113 | 280-5275-SR10 | CORD CLAMP SR10 | |
| 114 | 310-5029-F20 | SUMITUBE F F20MM | |
| 201 | 000-P00312-W | M SCR PH W/FS M3×12 | |
| 203 | 000-T00430-0B | M SCR TH BLK M4×30 | |
| 204 | 030-000830-SB | HBX BLT W/S BLK M8×30 | |
| 205 | 060-F00800-0B | FLT WSHR BLK M8 | |
| 206 | 030-000830-S | HBX BLT W/S M8×30 | |
| 207 | 060-F00800 | FLT WSHR M8 | |
| 208 | 000-T00416-0B | M SCR TH BLK M4×16 | |
| 209 | 011-T03512 | TAP SCR TH 3.5×12 | |
| 210 | 000-P00420-W | M SCR PH W/FS M4×20 | |
| 211 | 011-T00312 | TAP SCR TH 3×12 | |

(1) ASSY SUB CABINET LOWER (TTR-1201)

(0-3/3)

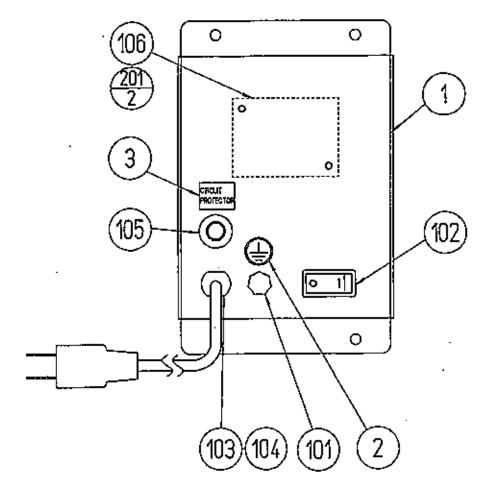
| ITEM NO. | PART NO. | DESCRIPTION | втоя |
|----------------|----------------|----------------------------|---|
| 212 | 000-P00308-W | · M SCR PH W/PS M3×8 | Used only when 220-5128~is used for 101 . |
| 213 | 000-T00420-0B | M SCR TH BLK M4×20 | |
| 214 | 050-H01600 | HBX NUT M16 | |
| 215 | 030-000630-S | HBX BLT W/S M6×30 | |
| 216 | 060-F00600 | FLT WSIIR M6 | |
| 217 | 030-000630-SB | HBX BLT W/S BLK M6×30 | |
| 218 | 050-F00400 | FLG NUT M4 | |
| 219 | 011-F00310 | TAP SCR FH 3×10 | |
| 220 | 011-T00310 | TAP SCR TH 3×10 | |
| € 301 | 600-6697-07 | WIRE HARN FRONT CABI EXT1 | |
| (301 - 302 | 600-6697-08 | WIRE HARN FRONT CABI EXT2 | |
| 303 | 600-6697-09 | WIRE HARN FRONT CABI EXT3 | |
| 304 | 600-6697-10 | WIRE HARN FRONT CABI EXT4 | |
| 305 | 600-6697-11 | WIRE HARN FRONT CABI EXT5 | |
| 306 | 600-6697-12 | WIRE HARN PRONT CABI EXT6 | - |
| 307 | 600-6697-27-91 | WIRE HARN BARTH FRONT CABI | |
| 308 | 600-6373-50 | WIRE HARN COIN LEFT | • |
| 309 | 600-6373-51 | WIRE HARN COIN RIGHT | |
| 310 | 600-6697-20 | WIRE HARN FRONT CABI BXT7 | |
| 311 | 600-6697-35 | WIRE HARN FRONT CABI EXTS | |

12 METER UNIT W (610-0395)



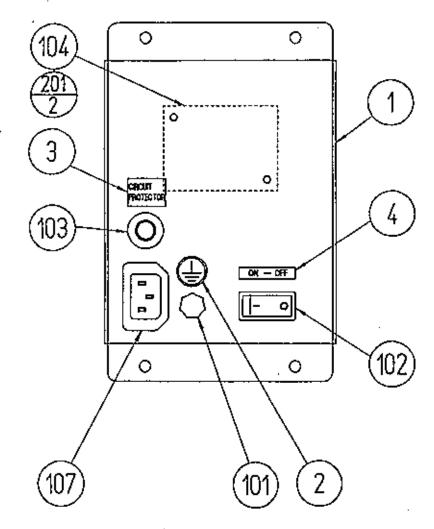
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|------------|-------------------------|--|------|
| 1 2 | 105-5233 421-6591-01 | METER BRKT W STICKER COIN METER | |
| 101 102 | 220-5412 220-5412-01 | MAG CNTR W/CONN MAG CNTR W/CONN BLACK | |

(13) AC UNIT (TTR-1250)



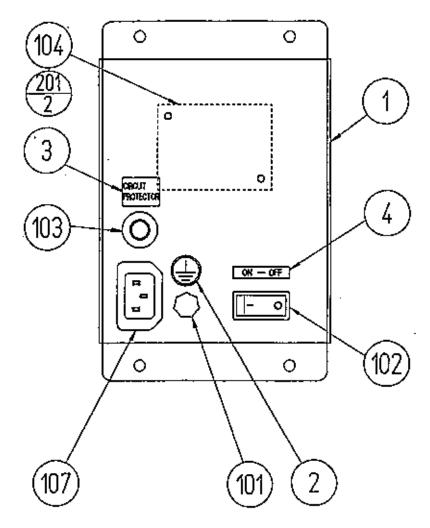
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|-------------|----------------|---------------------------------|------------|
| 1 | TTR-1251 | AC BRKT | |
| 1 2 3 | 421-8202 | STICKER BARTH MARK | |
| 3 | 421-7468-01 | STICKER C.P. W/PIC | |
| 101 | 280-0417 | TERMINAL BINDING POST BLACK | |
| 102 | 509-5453-H-B | SW ROCKER J8 H-B | |
| 103 | 280-5134-6N34 | BUSHING STRAIN RBLIEF 6N34 | TAIWAN |
| | 280-5134-6N4 | BUSHING STRAIN RELIEF 6N4 | USA |
| 104 | 600-5843-25 | CA & PLUG ASSY 15A W/-F- L=2.5M | TAIWAN |
| | 600-0110 | ASSY CABLE & PLUG ASSY W/BARTH | USA |
| 105 | 512-5033-15000 | CIRCUIT PROTECTOR 15000mA | |
| 106 | 450-5126 | MAGNET CONTACT S-N10CX | TAIWAN |
| | 450-5135 | MAGNET CONTACT S-N10CX AC 120V | USA |
| 107 | 601-0460 | PLASTIC TIB BELT 100MM | |
| 108 | 280-5009 | CORD CLAMP ∮21 | |
| 109 | 209-0032 | CONN CLOSED BND | LARGE TYPE |
| 110 | 310-5029-J20 | SUMITUBE F J20MM | ф б |
| 201 | 000-P00416-W | M SCR PH W/FS M4×16 | |
| 301 | 600-6697-01 | WIRE HARN AC UNIT TWIN | |
| 302 | 600-6363-83 | WIRE HARN BARTH AC UNIT | |
| / | 211-0167 | TERM LUG RND ID5 | USA , |
| | | | |

. (3) AC UNIT EXP 220V (TTR-1260)



| ITEM NO. | PART NO. | DESCRIPTION | NOTB |
|----------|----------------|--------------------------------|------|
| 1 | TTR-1261 | AC BRKT EXP | |
| 2 | 421-8202 | STICKER BARTH MARK | |
| | 421-7468-01 | STICKER C.P. W/PIC | |
| 4 | 421-6592 | STICKER ON-OFF | |
| 101 | 280-0417 | TERMINAL BINDING POST BLACK | |
| 102 | 509-5453-V-B | SW ROCKER J8 V-B | |
| 103 | 512-5033-8000 | CIRCUIT PROTECTOR 8000mA | |
| 104 | 450-5133 | MAGNET CONTACT S-N10CX AC 200V | |
| 105 | 601-0460 | PLASTIC TIE BELT 100MM | |
| 106 | 280-5009 | CORD CLAMP ∲21 | |
| 107 | 214-0202 | AC INLET PANEL TYPE | |
| 108 | 310-5029-J20 | SUMITUBE F J20MM | |
| 201 | 000-P00416-W | M SCR PH W/FS M4×16 | |
| 301 | 600-6697-37 | WIRE HARN AC UNIT EXP | |
| 302 | 600-6363-83-91 | WIRE HARN EARTH AC UNIT | |
| | | | |

(3) AC UNIT EXP 240V (TTR-1270)



| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|--|---|--|------|
| 1 2 3 4 | TTR-1261 421-8202 421-7468-01 421-6592 | AC BRKT BXP STICKER BARTH MARK STICKER C.P. W/PIC STICKER ON-OFF | |
| 101 102 103 104 105 106 107 108 | 280-0417 509-5453-V-B 512-5033-8000 450-5134 601-0460 280-5009 214-0202 310-5029-J20 | TERMINAL BINDING POST BLACK SW ROCKER J8 Y-B CIRCUIT PROTECTOR 8000mA MAGNET CONTACT S-NIOCX AC 230V PLASTIC TIE BELT 100MM CORD CLAMP \$21 AC INLET PANEL TYPE SUMITUBE F J20MM | |
| 201 | 000-P00416-W | M SCR PH W/FS M4×16 | |
| 301 302 | 600-6697 -37 600-6363-83-91 | WIRE HARN AC UNIT BXP WIRE HARN BARTH AC UNIT | |

(4) ASSY SHIELD CASE TWIN (TTR-1300)

204

205

207

301

302

303

010-P00308-W

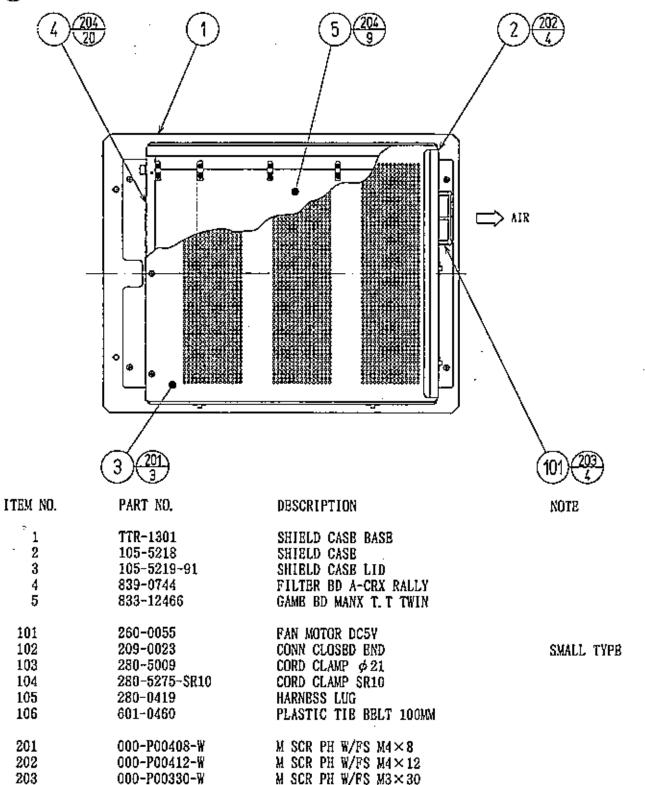
011-F00310

011-T03512

600-6697-24

600-6697-25

600-6502-13



S-TITE SCR PH W/F M3×8

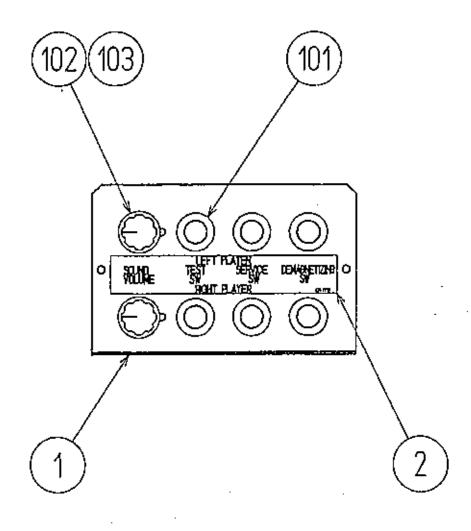
WIRE HARN SHIELD CASE1

WIRE HARN SHIELD CASE2

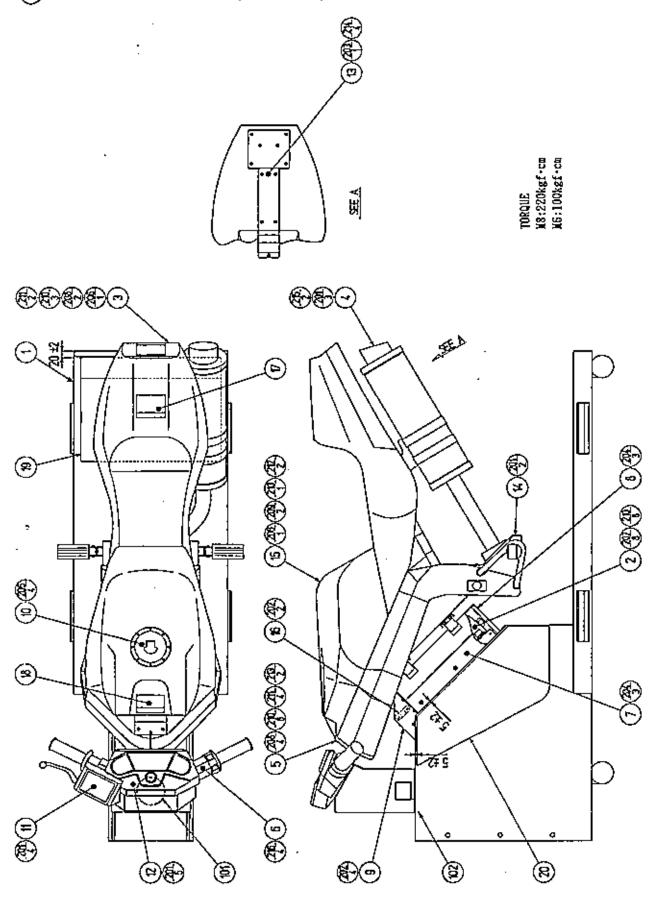
TAP SCR FH 3×10 TAP SCR TH 3,5×12

WIRE HARN DC FAN

(5) SW UNIT (DYN-0350)

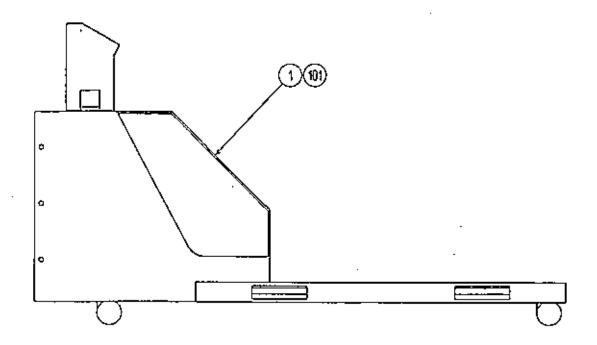


| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|------------|-----------------------------|--|------|
| 1 | USQ-1035 | SWITCH BRACKET | |
| 2 | 421-7718 | STICKER SW INSTR 2P | |
| 101 | 509-5028 | SW PB 1M | |
| 102 | 220-5179 | VOL CONT B-5K OHM | |
| 103 | 601-0042 | KNOB 22mm | |
| 104 | 601-0460 | PLASTIC TIB BELT 100MM | |
| 105 301 | 310-5029-F20 600-6373-53 | SUMITUBE F F20MM WIRE HARN TESTESERVICE LEFT | |
| 302 | 600-6373-55 | WIRE HÁRN VOL. LEFT | |
| 303 | 600-6373-67 | WIRE HARN TESTÆSERVICE RIGHT | |
| 304 | 600-6373-68 | WIRE HARN VOL. RIGHT | |
| | | | |



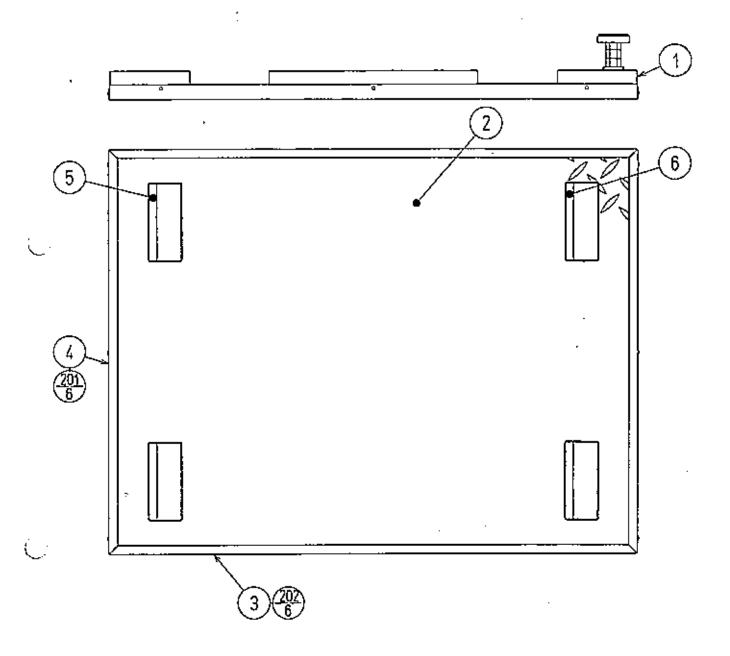
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|------------------|----------------|------------------------------|------|
| 1 | TTR-1501 | ASSY RBAR FRAME L | |
| 2 | TTR-3040 | ASSY CENTERRING MECHA | |
| , 3 | TTR-3054 | ASSY SBAT COWL L | |
| 4 | TTR-3090 | ASSY MUFFLBR | |
| | TTR-3095 | ASSY BIKE FRAME TWIN | |
| 6 | 610-0391 | ASSY HANDLE MECHA | |
| 5 6 7 8 | TTR-1503 | PROTECT COVER L | |
| 8 | TTR-1504 | PROTECT COVER R | |
| 9 | TTR-1505 | VR COVER | |
| 10 | TTR-3002 | FUEL CAP | |
| 11 | TTR-3003 | BRAKE COVER | |
| 12 | TTR-3004 | HANDLE COVER | |
| 13 | TTR-3007 | WIRE COVER | |
| 14 | TTR-3008 | FRAMB LID | |
| 15 | TTR-3016 | TANK L | |
| 16 | TTR-1506 | WIRB CLAMP | |
| 17 | 440-WS0040-BG | STICKER W TTR A ENG | |
| 18 | 440-WS0042-EG | STICKER W TTR C ENG | |
| 101 | 601-5526-251 | BUSH 1.6t | |
| 102 | 601-6231-D080 | EDGING NEW TYPE | |
| 103 | 280-5009 | CORD CLAMP ϕ 21 | |
| 201 | 000-T00408-0C | M SCR TH CRM M4×8 | |
| 202 | 000-P00408-WB | M SCR PH W/FS BLK M4×8 | |
| 203 | 000-P00412-WB | M SCR PH W/FS BLK M4×12 | |
| 204 | 000-P00512-WB | M SCR PH W/FS BLK M5×12 | |
| 205 | 020-000410-HZ | HBX SXT CAP SCR BLK OZ M4×10 | |
| 206 - | 030-000830-SB | HBX BLT W/S BLK M8×30 | |
| 207 | 030-000860-SB | HEX BLT W/S BLK M8×60 | |
| 208 | 050-U00800 | U NUT M8 | |
| 209 | 060-F00600-0B | PLT WSHR BLK M6 | |
| 210 | 060-F008000B | FLT WSHR BLK M8 | |
| 211 | 060-\$00800-08 | SPR WSHR BLK M8 | |
| 212 | 020-000625-HZ | HBX SKT CAP SCR BLK OZ M6×25 | |
| 213 | 020-000830-HZ | HEX SKT CAP SCR BLK OZ M8×30 | |
| 214 | FAS-110005 | TAP SCR TH CRM M4×12 | |
| 215 | 000-T00512-0C | M SCR TH CRM M5×12 | |
| 216 | FAS-300001 | HBX BLT W/FS CRM M8×20 | |
| 301 | 600-6697-36-91 | WIRE HARN BIKE FRAME BXT | |

(7) ASSY REAR FRAME L (TTR-1501)



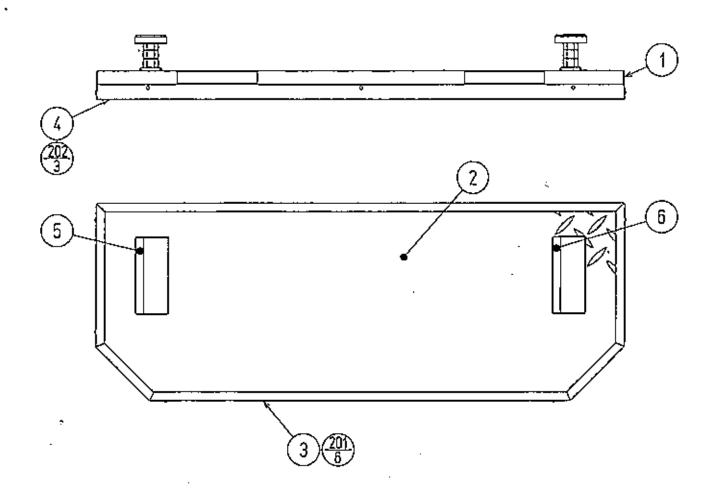
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|------------|----------------------------|---|------|
| 1 | TTR-1502 | RBAR FRAME L | |
| 101 | 280-5009 | CORD CLAMP Ø21 | |
| 201 | 000-P00408-W | M SCR PH W/FS M4×8 | |
| 301 302 | 600-6697-26 600-6697-30 | WIRE HARN REAR BASE EXT1 WIRE HARN BARTH REAR BASE | |

(18) ASSY FLOOR C (TTR-1520)



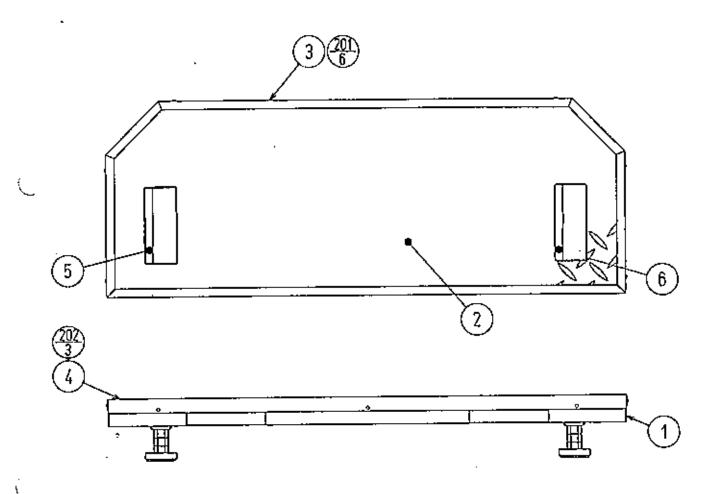
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|-----------------------|--|---|------|
| 1 2 3 4 5 | TTR-1521 TTR-1522 TTR-1523 TTR-1524 440-WP0057-EG 440-WP0058-EG | PLOOR CENTER PLOOR MAT CENTER CORNER EDGE INNER CORNER EDGE FR PLATE W FOOT MAT ENG PLATE W THIS AREA ENG | |
| 201 202 | 000-T00408-0C 050-F00400 | M SCR TH CRM M4×8 FLG NUT M4 | |

(19) ASSY FLOOR L (TTR-1530)

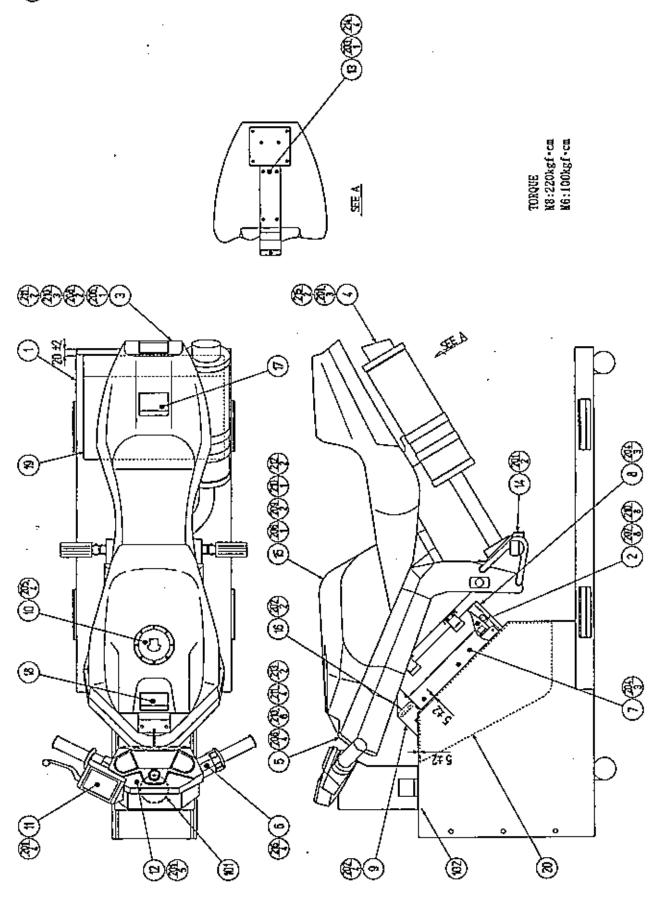


| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|-----------------------|--|--|------|
| 1 2 3 4 5 | TTR-1531 TTR-1532 TTR-1533 TTR-1523 440-WP0057-EG 440-WP0058-EG | FLOOR SIDE FLOOR MAT SIDE CORNER BDGE OUTER CORNER BDGE INNER PLATE W FOOT MAT ENG PLATE W THIS ARBA ENG | |
| 201 202 | 000-T00408-0C 050-F00400 | M SCR TH CRM M4×8 FLG NUT M4 | |

20 ASSY FLOOR R (TTR-1540)

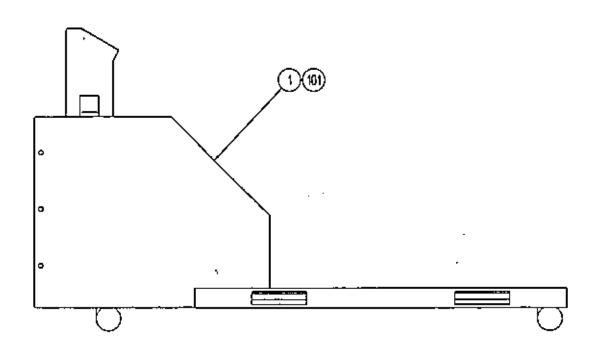


| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|----------------------------|--|--|------|
| 1 2 3 4 5 6 | TTR-1531 TTR-1532 TTR-1533 TTR-1523 440-WP0057-EG 440-WP0058-EG | PLOOR SIDE FLOOR MAT SIDE CORNER EDGE OUTER CORNER EDGE INNER PLATE W FOOT MAT ENG PLATE W THIS AREA ENG | |
| 201 202 | 000-T00408-0C 050-F00400 | M SCR TH CRM M4×8 FLG NUT M4 | |



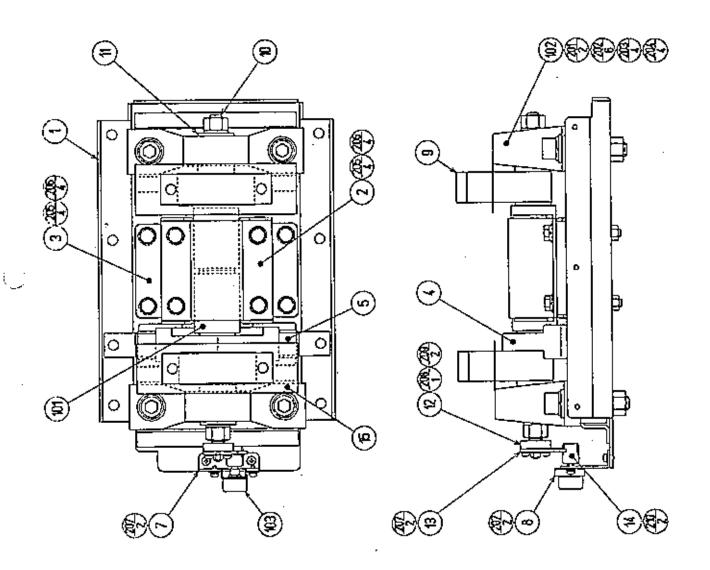
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|--|---|---|------|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | TTR-1551 TTR-3040 TTR-3057 TTR-3090 TTR-3095 610-0391 TTR-1503 TTR-1504 TTR-1505 TTR-3002 TTR-3002 TTR-3003 TTR-3004 TTR-3007 TTR-3008 TTR-3017 TTR-1506 440-WS0040-BG 440-WS0042-EG | ASSY REAR FRAME R ASSY CENTERING MECHA ASSY SEAT COWL R ASSY MUFFLER ASSY BIKE FRAME TWIN ASSY HANDLE MECHA PROTECT COVER L PROTECT COVER R VR COVER FUEL CAP BRAKE COVER HANDLE COVER WIRE COVER FRAME LID TANK R WIRE CLAMP STICKER W TTR A BNG STICKER W TTR C ENG | |
| 18 19 20 | TTR-1502-B TTR-1552-A | STICKER STEP CENTER STICKER REAR FRAME R | |
| 101 102 103 | 601-5526-251 601-6231-D080 280-5009 | BUSH 1, 6t BDGING NEW TYPE CORD CLAMP \$\phi\$ 21 | |
| 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 | 000-T00408-0C 000-P00408-WB 000-P00412-WB 000-P00512-WB 020-000410-HZ 030-000830-SB 030-000860-SB 050-U00800 060-F00600-0B 060-F00800-0B 060-S00800-0B 020-000625-HZ 020-000830-HZ FAS-110005 000-T00512-0C FAS-300001 | M SCR TH CRM M4×8 M SCR PH W/FS BLK M4×8 M SCR PH W/FS BLK M4×12 M SCR PH W/FS BLK M5×12 HBX SKT CAP SCR BLK OZ M4×10 HBX BLT W/S BLK M8×30 HBX BLT W/S BLK M8×60 U NUT M8 FLT WSHR BLK M6 FLT WSHR BLK M8 SPR WSHR BLK M8 SPR WSHR BLK M8 HEX SKT CAP SCR BLK OZ M6×25 HEX SKT CAP SCR BLK OZ M8×30 TAP SCR TH CRM M4×12 M SCR TH CRM M5×12 HBX BLT W/FS CRM M8×20 | |
| 301 | 600-6697-36-91 | WIRE HARN BIKE FRAME EXT | |

22 ASSY REAR FRAME R (TTR-1551)



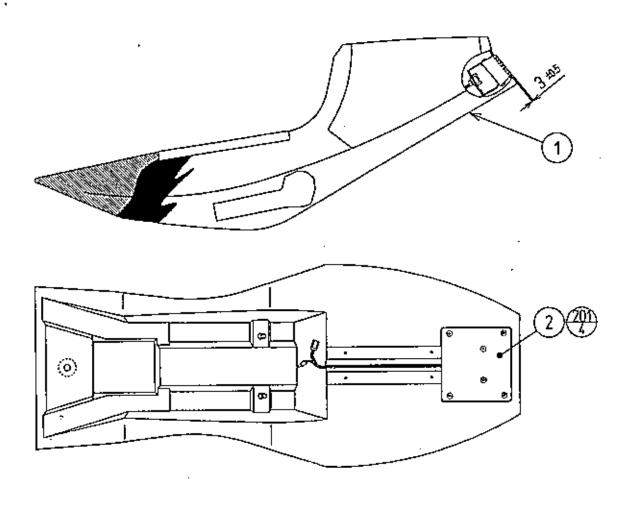
| ITEM NO. | PART NO. | DESCRIPTION . | NOTE |
|------------|----------------------------|---|------|
| 1 | TTR-1552 | REAR FRAME R | |
| 101 | 280-5009 | CORD CLAMP ∮21 | |
| 301 302 | 600-6697-26 600-6697-30 | WIRE HARN REAR BASE EXT1 WIRE HARN BARTH REAR BASE | |

TORQUE NB:220kgf·cm NIA:800kgf·cm (O) A50kgf·cm



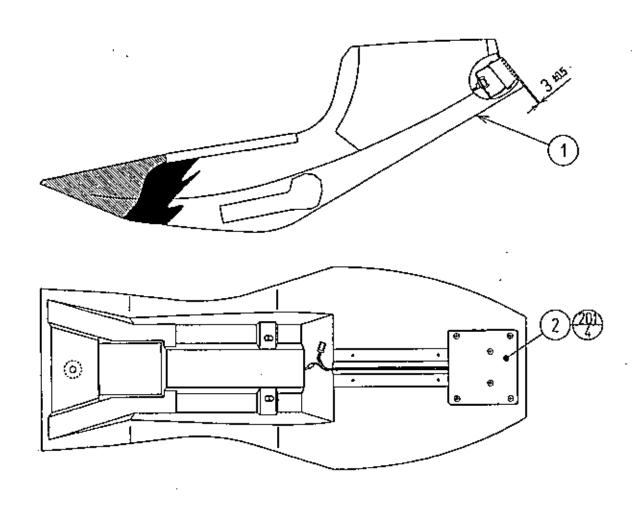
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|--|--|---|------|
| 1 2 3 4 5 7 8 9 10 11 12 13 | TTR-3041 TTR-3042 TTR-3043 TTR-3045 TTR-3047 TTR-3048 TTR-3202 TTR-3203 TTR-3205 TTR-2009 601-6005 601-7945 | CENTERING BASE ROSTA BRKT TWIN ROSTA MOUNT BRKT STOPPER BLOCK STOPPER RUBBER VR MOUNT BRKT VR BRKT MOUNT BLOCK CENTERING SHAFT FLT 14,5-36×3,2 GEAR HOLDER 80 ADJUST GEAR GEAR 20 | |
| 15 | TTR-3049 | SLIDE PLATE | |
| 101 102 103 104 105 106 107 | 601-8596 100-5224 220-5484 280-5009 280-5008 310-5029-F20 601-0460 | ROSTA □22 BEARING \$\phi 25 VOL CONT B-5K OHM CORD CLAMP \$\phi 21 CORD CLAMP \$\phi 15 SUMITUBB F F20MM PLASTIC TIB BELT 100MM | ø4 |
| 201 202 203 204 205 206 207 208 209 210 | 050-H01400 060-S01400 PAS-200007 060-F01400 030-000820-S 060-F00800 000-P00408-W 050-U00500 028-C00416-P 028-C00308-P | HEX NUT M14 SPR WSHR M14 HEX SKT H CAP SCR BLK OZ M14×70 FLT WSHR M14 HEX BLT W/S M8×20 FLT WSHR M8 M SCR PH W/FS M4×8 U NUT M5 SET SCR CH P M4×16 SET SCR CH P M3×8 | |
| 301 | 600-6659-43 | WIRE HARN ANGLE VOL | |

ASSY SEAT VOWL L (TTR-3054)



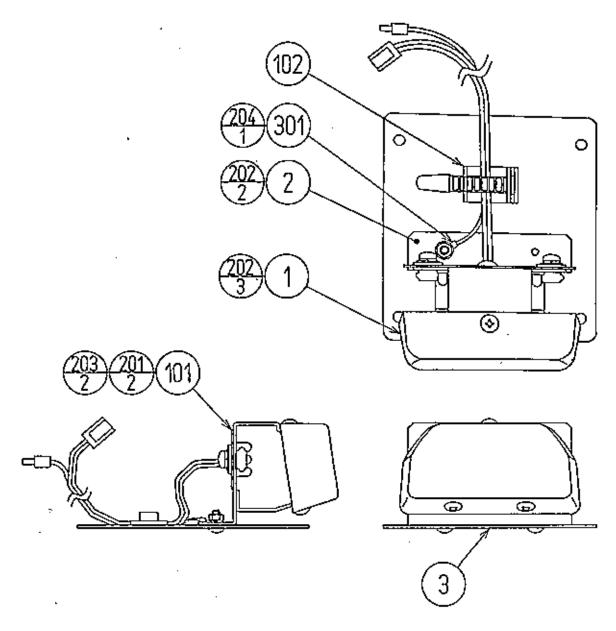
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|----------|----------------------|--------------------------------|------|
| 1 2 | TTR-3055 TTR-3060 | SEAT COWL L ASSY TAIL LIGHT | |
| 201 | FAS-110005 | TAP SCR TH CRM M4×12 | |

25 ASSY SEAT COWL R (TTR-3057)



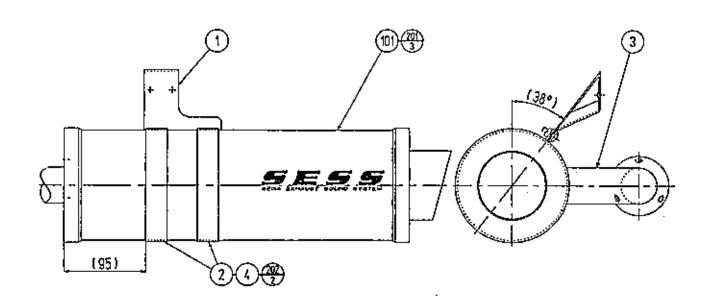
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|----------|----------------------|--------------------------------|------|
| 1 2 | TTR-3058 TTR-3060 | SEAT COWL R ASSY TAIL LIGHT | |
| 201 | FAS-110005 | TAP SCR TH CRM M4×12 | |

(26) ASSY TAIL LIGHT (TTR-3060)



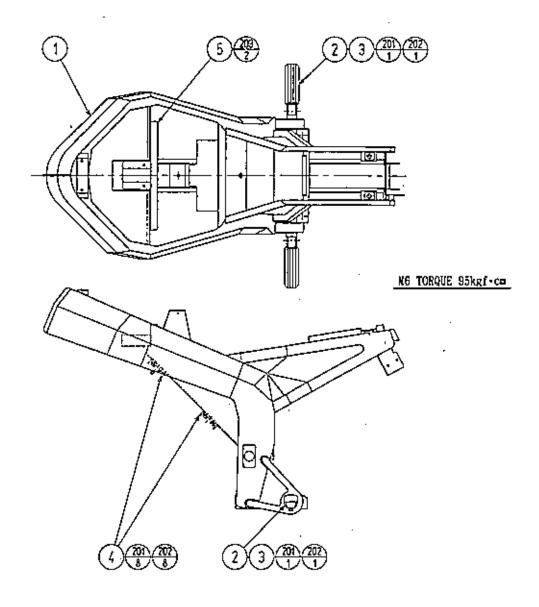
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|----------|---------------|----------------------------|------|
| 1 | TTR-3061 | LENS | |
| 2 | TTR-3062 | LED BRKT | |
| 3 | TTR-3063 | TAIL LID | |
| 101 | 390-5621 | LED BD | |
| 102 | 280-5008 | CORD CLAMP Ø 15 | |
| 201 | 000-P00514-W | M SCR PH W/FS M5×14 | |
| 202 | 000-T00408-0C | M SCR TH CRM M4×8 | |
| 203 | FAS-500010 | KURATITE NUT M5 | |
| | | | |
| 204 | 050-F00400 | FLG NUT M4 | |
| 301 | 600-6659-61 | WIRE HARN EARTH TAIL LIGHT | |
| | | | |

. ② ASSY MUFFLER (TTR-3090)

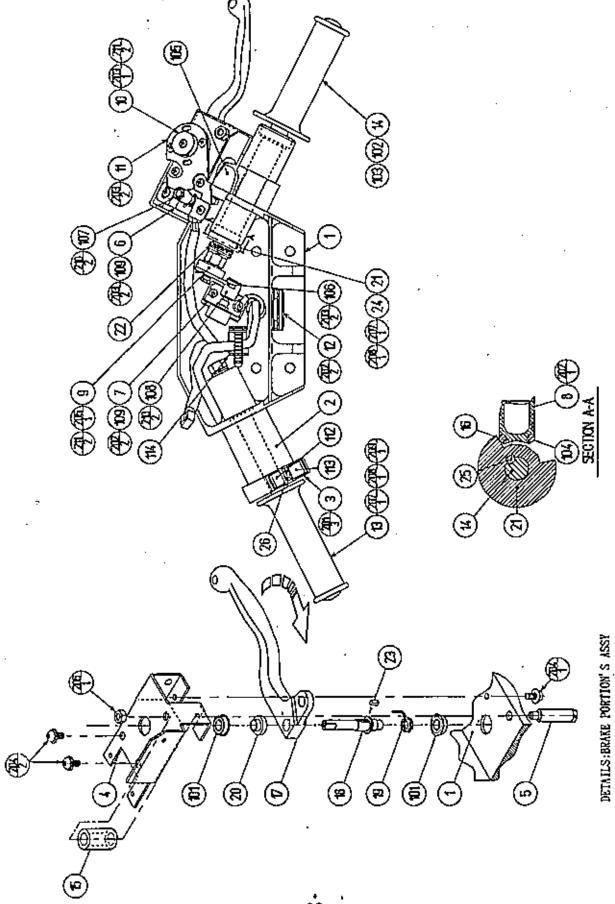


| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|------------|-----------------------------|--|------|
| 1 | TTR-3091 | MOUNT BRKT | |
| $ar{2}$ | TTR-3092 | SILENSOR BAND | |
| 3 | TTR-3093 | CENTER PIPE | |
| 4 | TTR-3094 | CUSHION RUBBER | |
| 101 | 130-5147 | SPBAKER DUCT WOOFER | |
| 201 202 | FAS-110005 000-T00616-0C | TAP SCR TH CRM M4×12 M SCR TH CRM M6×16 | |

28 ASSY BIKE FRAME TWIN (TTR-3095)



| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|-------------------|--|---|------|
| 1 2 3 4 | TTR-3071 TTR-3072 TTR-3073 TTR-3074 TTR-1507 | BIKE FRAME STEP RUBBER STEP COLLAR SUB MOUNT PLATE INNER COYER TWIN | |
| 101 | 280-5009 | CORD CLAMP Ø 21 | |
| 201 202 203 | 030-000620-SB 060-F00600 010-P00408-F | HEX BLT BLK W/S M6×20 FLT WSHR M6 S-TITE SCR PH W/F M4×8 | |
| 301 302 | 600-6659-41 600-6659-57 | WIRE HARN BIKE FRAME1 WIRE HARN BARTH BIKE FRAME | |



-98-

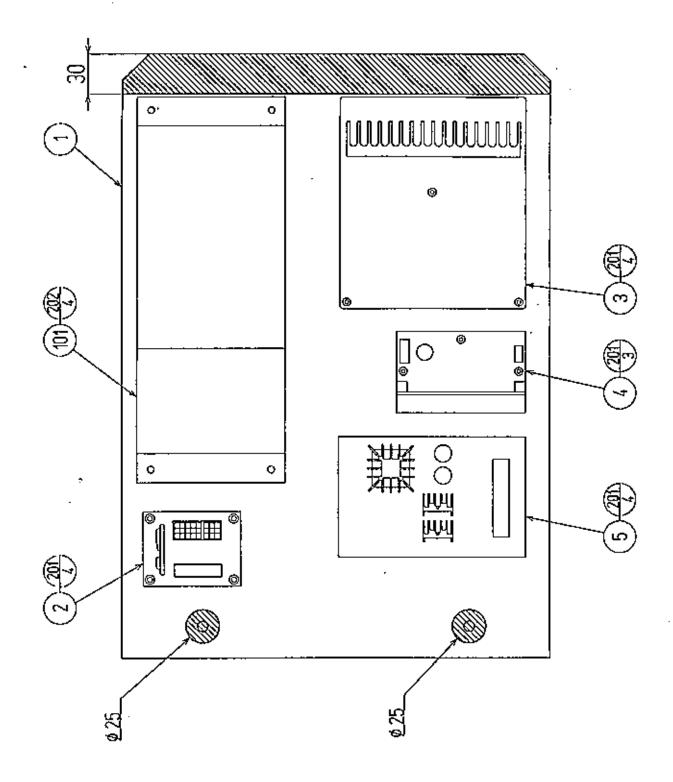
29 ASSY HANDLE MECHA (610-0391)

| | | • | |
|-----------------------|---------------------------|---------------------------------------|------|
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
| 1 | TTR-2001 | HANDLE BASE | |
| 2 | TTR-2002 | HANDLE LEFT | |
| 3 | TTR-2003 | SW COVER | |
| · 4 | TTR-2004 | LBYER HOLDER UPPER | |
| 5 | TTR-2005 | STOPPER SHAFT | |
| 4 5 6 7 8 | TTR-2006 | BRAKB VOL BRKT | |
| 7 | TTR-2007 | ACCEL VOL BRKT | |
| 8 | TTR-2008 | STOPPER LID | |
| 9 | TTR-2009 | GBAR HOLDER 80 | |
| 10 | TTR-2010 | GBAR HOLDBR 110 | |
| 1 1 | TTR-2011 | GBAR 110 | |
| 12 | TTR-2012 | COVER HOLDER BRKT | |
| 13 | TTR-2013 | GRIP L | |
| 14 | TTR-2014 | GRIP R | |
| 15 | TTR-2015 | STOPPER RUBBER | |
| 16 | TTR-2016 | ACCEL STOPPER | |
| 17 | COL-2202 | BRAKE LEVER | |
| 18 | COL-2203 COL-2204 | LEVER SHAFT TORSION SPRING 1.2 | |
| 19 20 | COL-2205 | LEVER COLLAR | |
| 20 21 | COL-2215 | STOPPER DISK | • |
| 22 | GPD-2009 | TORSION SPRING | |
| 23 | GLC-2218 | KEY 3×3×7 | |
| 24 | HSD-2017 | SPRING HOLDER | |
| 25 | HSD-2019 | KEY 4×4×12 | |
| 26 | 421-9016 | STICKER SHIFT UP/DOWN | |
| 101 | 100-5041 | BEARING (NSK F688ZZ) | |
| 102 | 100-5111 | BEARING \$\phi 12 (NSK 6001ZZ) | |
| 103 | 100-5112 | BEARING φ17 (NSK 6003ZZ) | |
| 104 | 100-5228 | BEARING PIN 4×19,8 | |
| 105 | 601~5564 | STOPPER | |
| 106 | 601-6005 | ADJUST GEAR | |
| 107 | 601-7944 | GEAR 15 | |
| 108 | 601-7945 | GBAR 20 | |
| 109 | 220-5484 | YOL CONT B-5KOHM | |
| 110 | 310-5029-D20 | SUMITUBE F D20MM | |
| 111 | 601-0460 | PLASTIC TIE BELT 100MM | |
| 112 | 509-5724 | PUSH BUTTON SW GREEN | |
| 113 114 | 509-5725 280-5008 | PUSH BUTTON SW RED CORD CLAMP Ø 15 | |
| 114 | 200-3000 | CORD CLASSE VIS | |
| 201 | 000-F00308 | M SCR FH M3×8 | |
| 202 | 000- P 00408-W | M SCR PH W/FS M4×8 | |
| 203 | 000-P00412-W | M SCR PH W/FS M4×12 | |
| 204 | 000-P00512-W | M SCR PH W/FS M5×12 | |
| 205 | 050-000500 | U NUT M5 | |
| 206 | 050-000600 | U NUT MG | |
| 207 | 050-H01200 | HBX NUT M12 | |
| 208 | 060-S01200 | SPR WSHR M12 | |
| 209 | 060-F01200 | FLT WSKR M12 | |
| 210 | 028-A00306-P | SBT SCR HEX SKT CUP P M3×6 | |
| | | | |

29 ASSY HANDLE MECHA (610-0391)

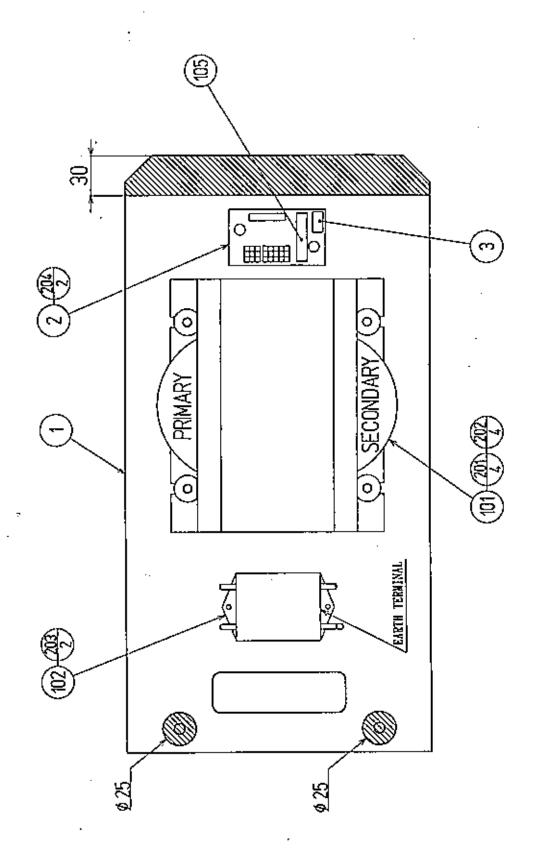
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| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|----------|--------------|-----------------------------|------|
| 211 | 028-A00408-P | SET SCR HEX SKT CUP P M4×8 | |
| 301 | 600-6659-45 | WIRE HARN HANDLE UNIT 1 | |
| 302 | 600-6659-52 | WIRE HARN HANDLE UNIT 3 | |
| 303 | 600-6659-60 | WIRE HARN BARTH HANDLE UNIT | |



30 ASSY PWR SPLY (TTR-4300)

| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
|----------|---------------|-----------------------------------|------|
| 1 | TTR-4301 | PWR SPLY BASE | |
| 2 3 | 838-10801-04 | CONN BD B W/O FUSB | |
| 3 | 838-11650-14 | EQ. PWR AMP MANX T. T TWIN | |
| 4 | 838-12280 | MONORAL AMP | |
| | 838-12439 | MONGRAL PWR AMP | |
| 5 | · 839-0451-01 | LIGHT CONTROL BD TTR | |
| 101 | 400-5264-91 | SW REGU +5V12A, 12V1. 5A, -5V. 1A | |
| | 400~5306-01 | SW REGU +5V12A, 12V1, 5A, -5V, 1A | |
| 102 | 280-5009 | CORD CLAMP ϕ 21 | |
| 103 | 280-0419 | HARNESS LUG | |
| 104 | 601-0460 | PLASTIC TIE BELT 100MM | |
| 201 | 011-T00325 | TAP SCR TH 3×25 | |
| 202 | 011-T00312 | TAP SCR TH 3×12 | |
| 203 | 011-F00310 | TAP SCR FH 3×10 | |
| 301 | 600-6697-21 | WIRE HARN BLEC1 | |
| 302 | 600-6697-22 | WIRE HARN BLBC2 | |
| 303 | 600-6697-23 | WIRE HARN BLBC3 | |
| 304 | 600-6697-33 | WIRE HARN BLBC4 | |
| 305 | 600-6697-34 | WIRE HARN ELECS | |



3 ASSY ELEC (TTR-4400)

·(D-2/2)

| | • | | |
|-------------|---------------|--|------|
| ITEM NO. | PART NO. | DESCRIPTION | NOTE |
| 1 | TTR-4401 | BLEC BASE | |
| 2 | 838-11856-01 | CONN BD W/FUSB & COVER | |
| 1 2 3 | 421-6595-11 | STICKER 7A | |
| 101 | 560-5324 | PWR XFMR 892VA | |
| 102 | . 270-5026 | NOISE FILTER 20A | |
| 103 | 280-5009 | CORD CLAMP \$21 | |
| 105 | 514-5036-7000 | FUSE 6.4 φ × 30 7000mA 125V | |
| 201 | 000-P00516-W | M SCR PH W/FS M5×16 | |
| 202 | 068-552016 | FLT WSHR 5.5-20×1.6 | |
| 203 | 011-T00312 | TAP SCR TH 3×12 | |
| 204 | 011-T00325 | TAP SCR TH 3×25 | |
| 205 | 011-F00310 | TAP SCR FH 3×10 | |
| 301 | 600-6697-02 | WIRB HARN PWR SPLY1 | |
| 302 | 600-6697-03 | WIRE HARN PWR SPLY2 | |
| 303 | 600-6697-04 | WIRE HARN PWR SPLY3 | |
| 304 | 600-6697-05 | WIRB HARN PWR SPLY4 | |
| 305 | 600-6697-06 | WIRE HARN PWR SPLY5 | |
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20. WIRE COLOR CODE TABLE

THE WIRE COLOR CODE is as follow:

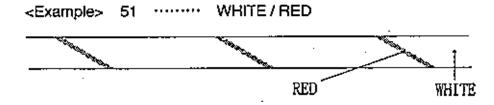
- A PINK
- B SKY BLUE
- C BROWN
- D PURPLE
- E LIGHT GREEN

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

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.



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

K: AWG18, UL1015

L: AWG20, UL1007

None: AWG22, UL1007