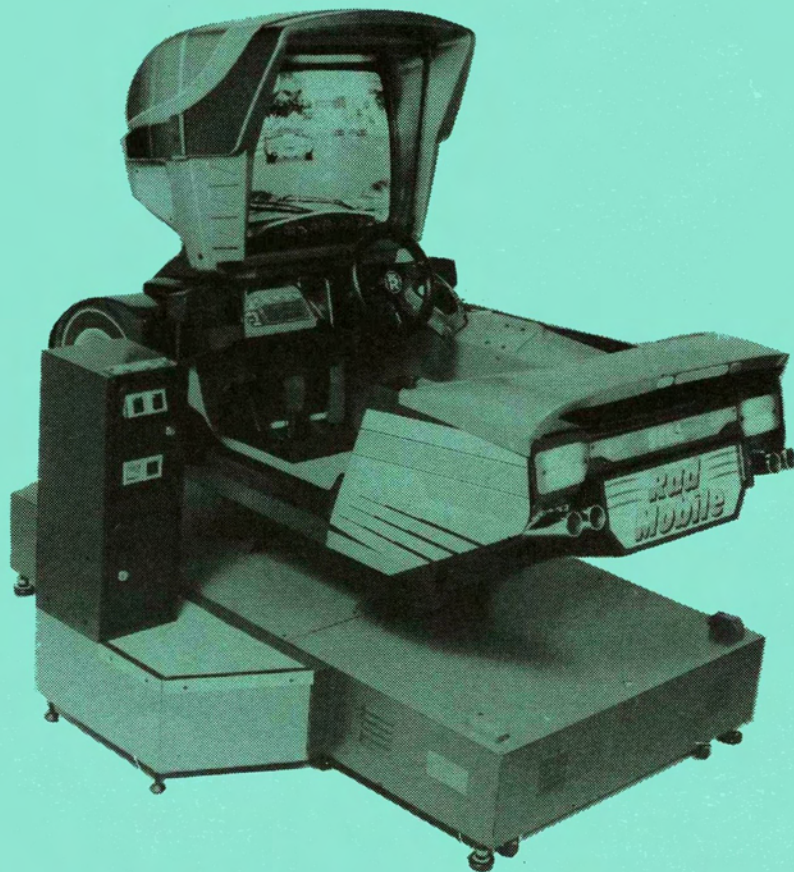


SEGA

Rad Mobile

OWNER'S MANUAL

DELUXE TYPE



SEGA ENTERPRISES, LTD.

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SPECIFICATIONS

- | | |
|----------------------|---|
| • INSTALLATION SPACE | : 1800mm(70.9in)(D) × 1300mm(51.2in)(W) |
| • HEIGHT | : 1650mm(65.0in) |
| • POWER | : 310W |
| • C. R. T. | : 26 INCH |
| • WEIGHT | : 350Kg(771.0lbs.) |

NOTE:

Descriptions herein contained may be subject to improvement changes without 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 comments together with all the necessary information covering the operation in general of electronic assemblies, electromechanicals servicing control, spare parts, etc. as regards the RAD MOBILE a new SEGA product. The manual is intended for those who have knowledge of electricity and technical expertise especially in ICs, CRTs, microprocessors, etc. Carefully read so as to acquire sufficient knowledge before working on the machine. Should there be a malfunction, non-technical personnel should under no circumstance touch the interior system.

1. HANDLING PRECAUTIONS

When installing or inspecting, be very careful of the following points and pay attention to ensure that the player can enjoy the game safely.

- Be sure to turn the power off before working on the machine.
- To insert or pull out the plug quickly is dangerous.
- It is necessary to make sure that the power cord or the grounding wire is not exposed on the road, etc. in a manner so as to be dangerous. Make sure that grounding connections are made safely at the position where so specified.
- Do not use any fuse that does not meet the specified rating.
- Make complete connections for the IC board and other connectors. Insufficient insertion is very dangerous.

Also, for the IC board circuit inspections, only the logic tone is allowed. The use of a tester is not permitted, so be careful in this regard. After confirming that there are no irregularities, turn the power ON.

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 carrying 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.



LICENSE SEAL

The following seal is put on the kits, such as the printed circuit boards, of SEGA products.



COPYRIGHT NOTICE

This SEGA product has the copyright notice as follows :

© SEGA 1990

This signifies that this work was disclosed in 1991 and is the property of SEGA ENTERPRISES, LTD.

3. PRECAUTIONS CONCERNING THE PLACE OF INSTALLATION

The RAD MOBILE DX is an indoor game machine. Absolutely do not install it outside. Even indoors, avoid installing in places mentioned below so as to ensure proper usage :

- Places subject to rain or water leakage, or condensation due to humidity.
- In the proximity of an indoor swimming pool and/or shower.
- Places subject to direct sunlight.
- Places subject to heat sources from heating units, etc., or hot air.
- Vicinity of highly inflammable/volatile chemicals or hazardous matter.
- Sloped surfaces.
- Vicinity of anti-disaster facilities such as fire exits and fire extinguishers.
- Places subject to any type of violent impact.
- Dusty places.

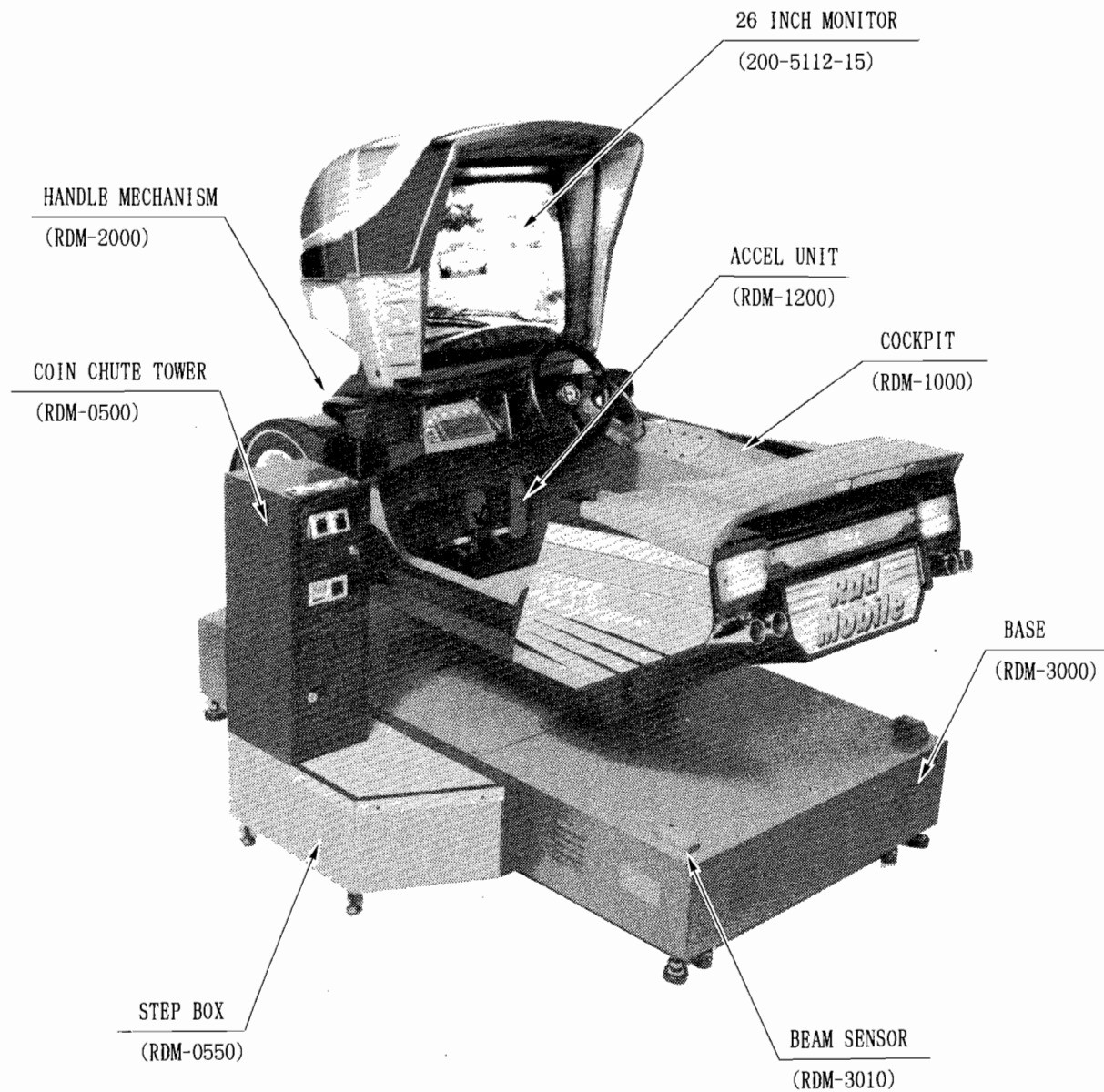
INSTALLATION OF THE RAD MOBILE DELUXE TYPE

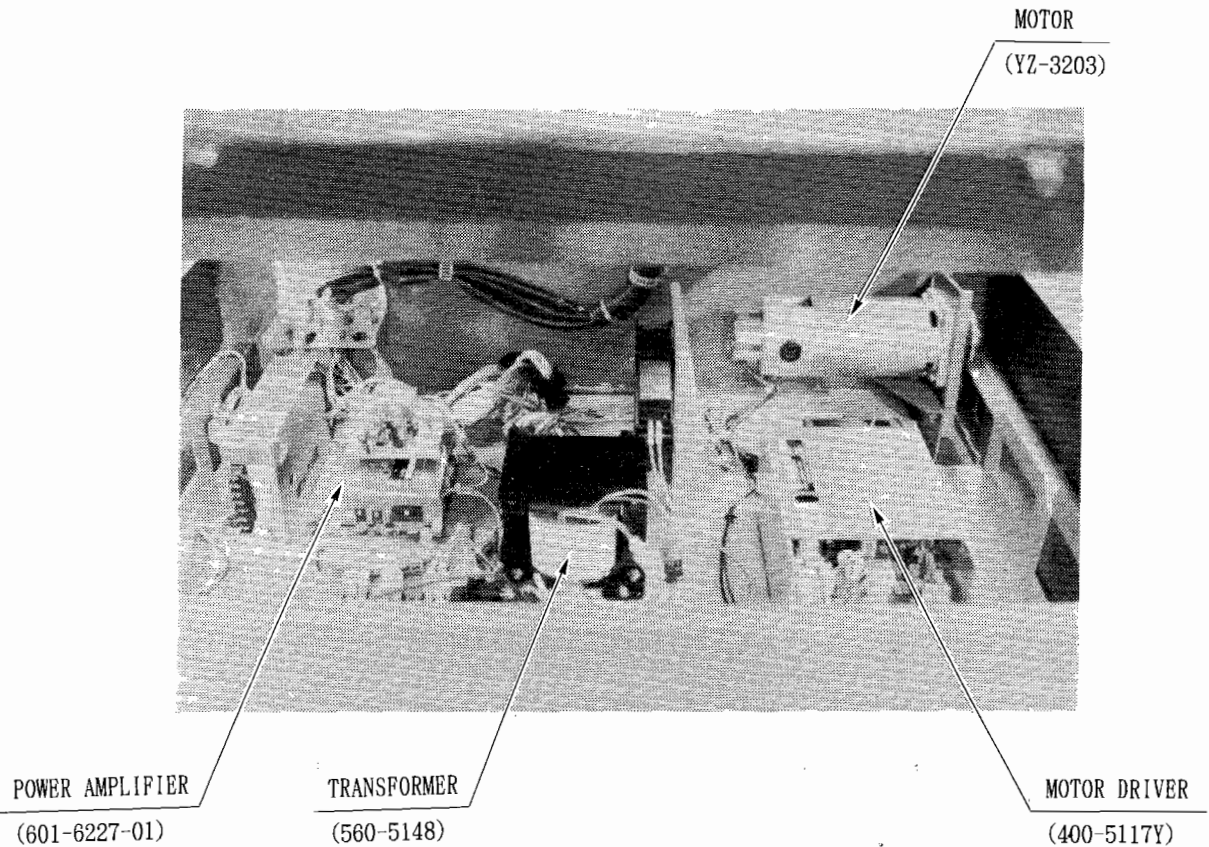
- ◎ Use an independent outlet for the power supply.
(The breaker may break when the maximum current is consumed if the outlet is simultaneously used for the power source of other machines.)
- ◎ When using an extension cord, use one with a specified rating or higher.

	AC120V	AC220V	AC240V
RATED CURRENT	7.5 A	4.9 A	5.1 A

For installation, make doubly sure that attention be paid to the above points.

4. NAME OF PARTS

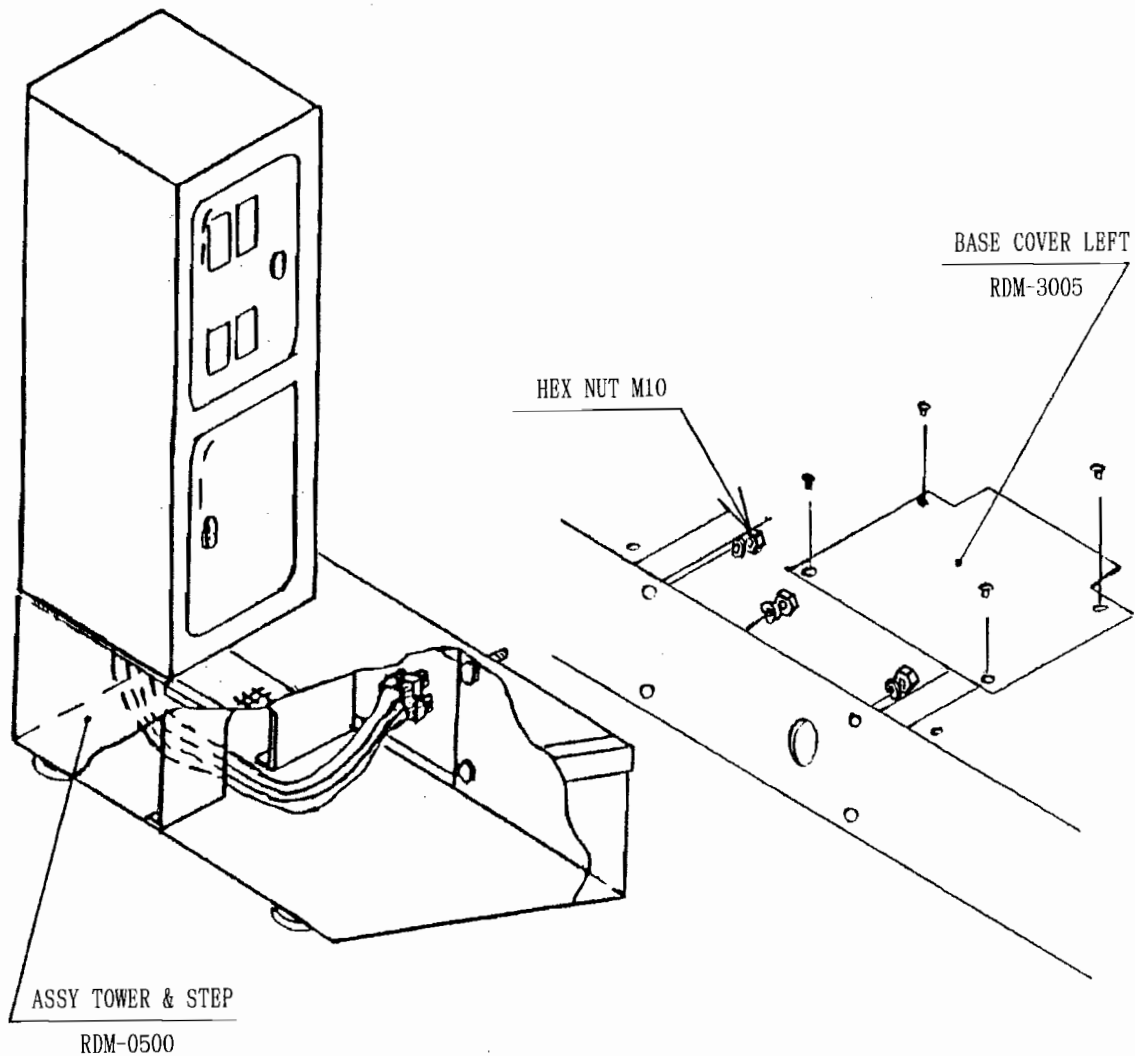




TOOLS & ACCESSORIES

PART No.	Q/U	DESCRIPTION
509-5298	1	PUSH BTN SW IT YELLOW W/LAMP
220-5130	1	VOL CONT B-5KOHM
RDM-2006	1	EXT SPRING
540-0006-01	1	WRENCH FOR TAMP PRF SCR DUAL TYPE M4
540-0008-01	1	WRENCH FOR TAMP PRF SCR DUAL TYPE M8
509-5372	1	PUSH BUTTON SWITCH IT GREEN W/LAMP
509-5373	1	PUSH BUTTON SWITCH IT BLUE W/LAMP
RDM-1212	1	TORSION SPRING R
RDM-1213	1	TORSION SPRING L

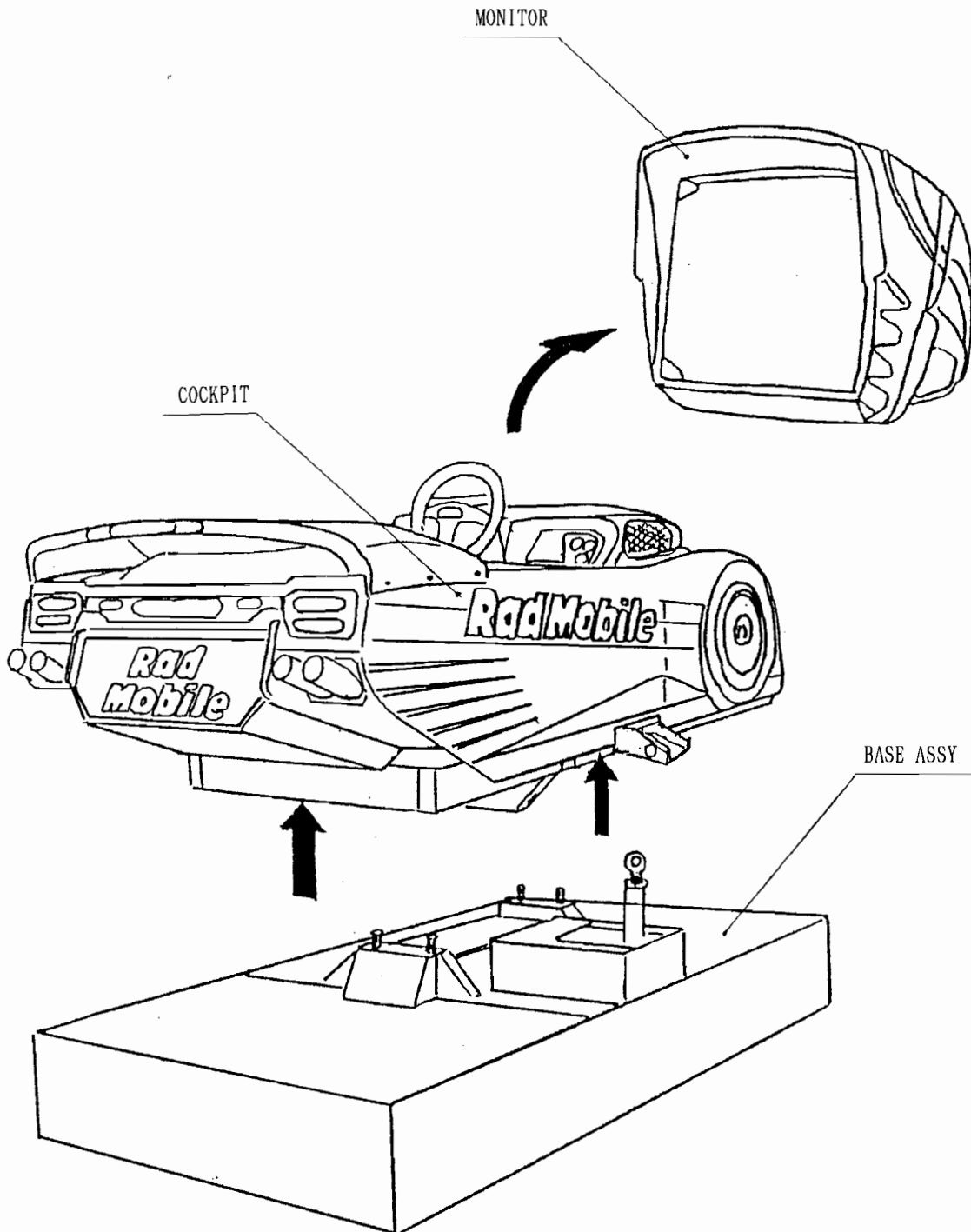
5. REMOVING THE COIN CHUTE TOWER



- ① Remove the ASSY BASE side BASE COVER LEFT (RDM-3005) and take off the four M10 HEX NUTs. Pull the ASSY TOWER & STEP towards you, disconnect the 5 CONNECTORS and remove the COIN CHUTE TOWER from the ASSY BASE.

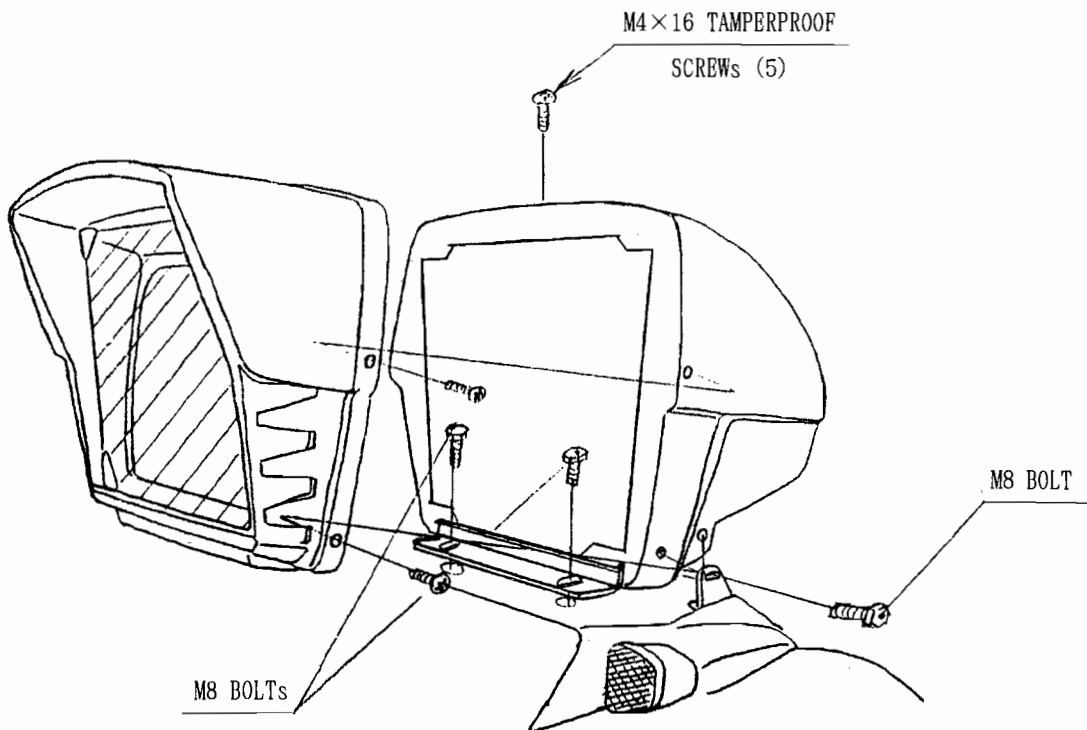
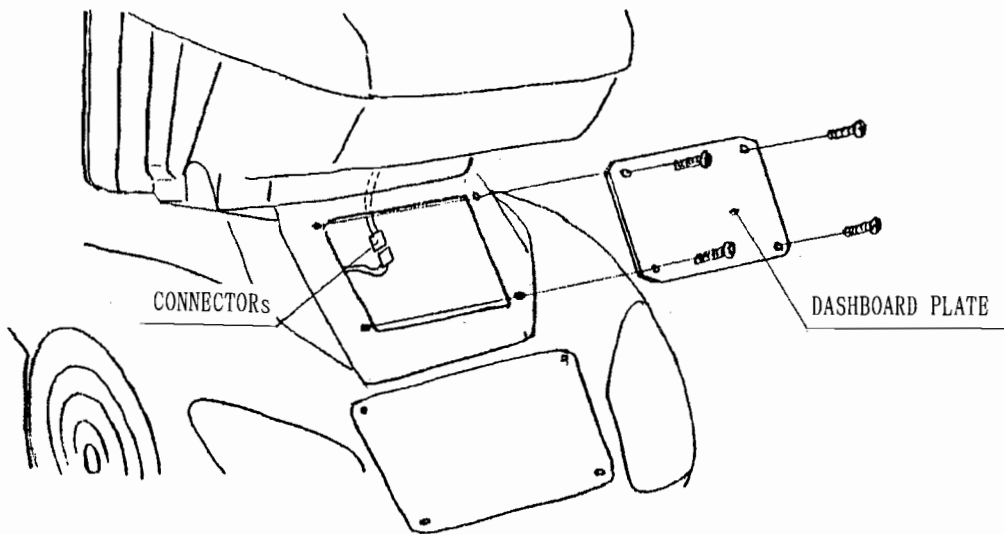
6. DISASSEMBLING THE CABINET

The CABINET which is the machine's main part, can be disassembled into 3 parts, i.e., the MONITOR, COCKPIT and ASSY BASE.



* SEPARATING THE MONITOR

- ① Remove the DASHBOARD PLATE by taking off the four M4×10 TAMPERPROOF SCREWS and disconnect the 4 CONNECTORS in total which are connected to the monitor.
- ② Remove the MONITOR COVER FRONT by taking off the five M4×16 TAMPERPROOF SCREWS.
- ③ Take off the four M8 BOLTS which secure the front and both sides.

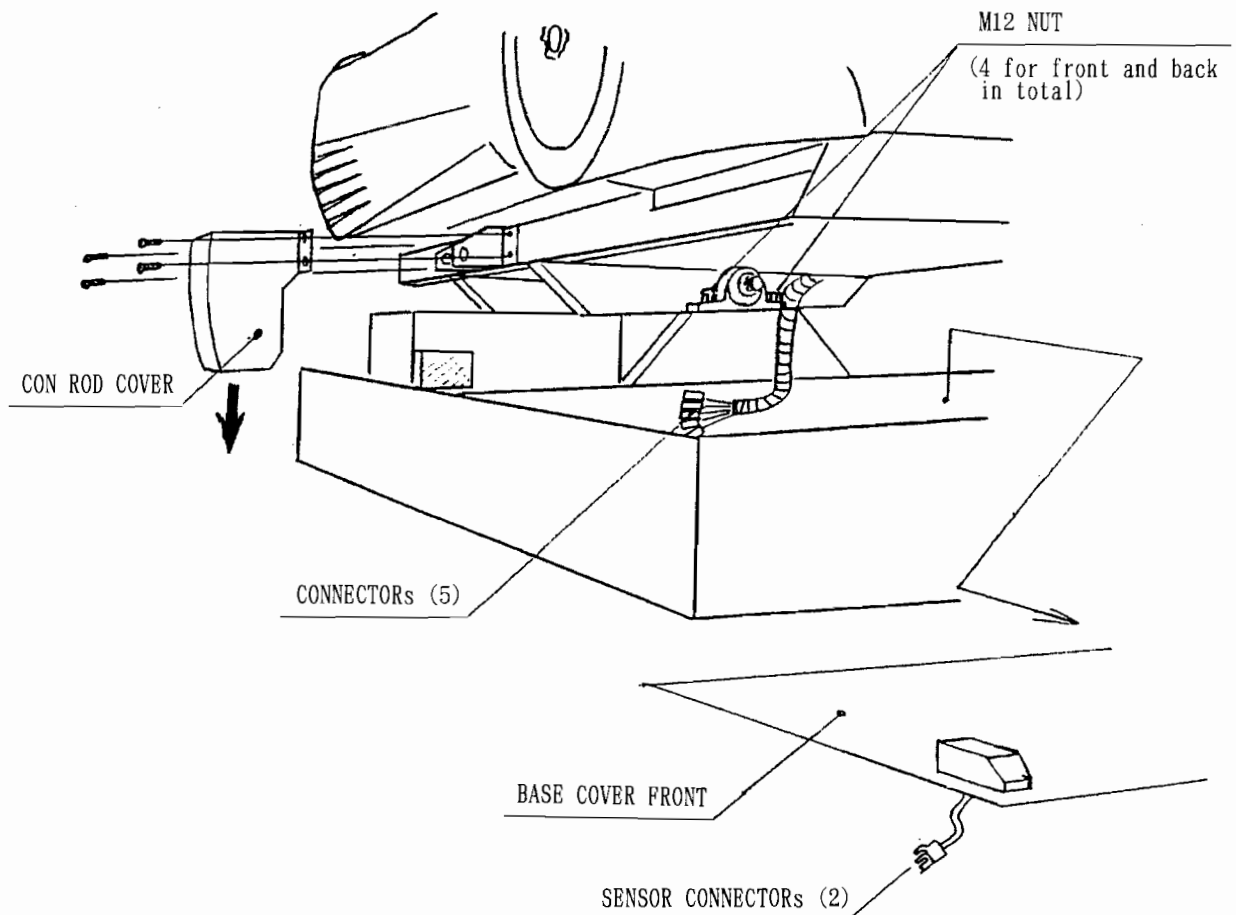


* SEPARATING THE COCKPIT

- ① Remove the BASE COVER FRONT by taking off the four M5×10 TAMPERPROOF SCREWS.

Disconnect the CONNECTORS to remove the BASE COVER from the BASE.

- ② Disconnect the 5 wire CONNECTORS Which hang down to the ASSY BASE from the COCKPIT.
- ③ Take off the four M12 NUTS which secure the BEARING.
- ④ Remove the four TAMPERPROOF SCREWS which secure the CON ROD COVER and lower the COVER.

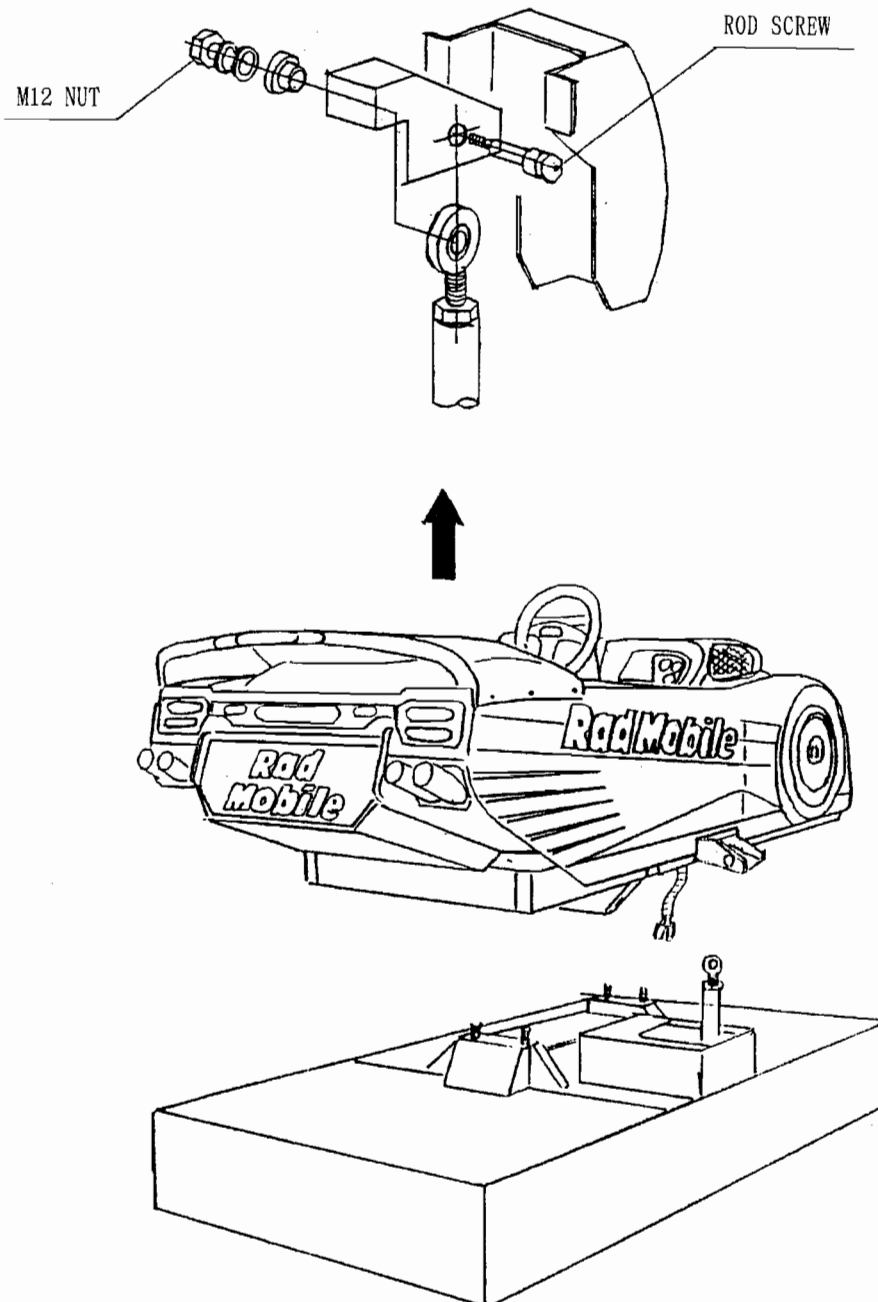


- ⑤ Disconnect the joint portion of the BANK FRAME & CRANK by taking off the M12 NUT and ROD SCREW.

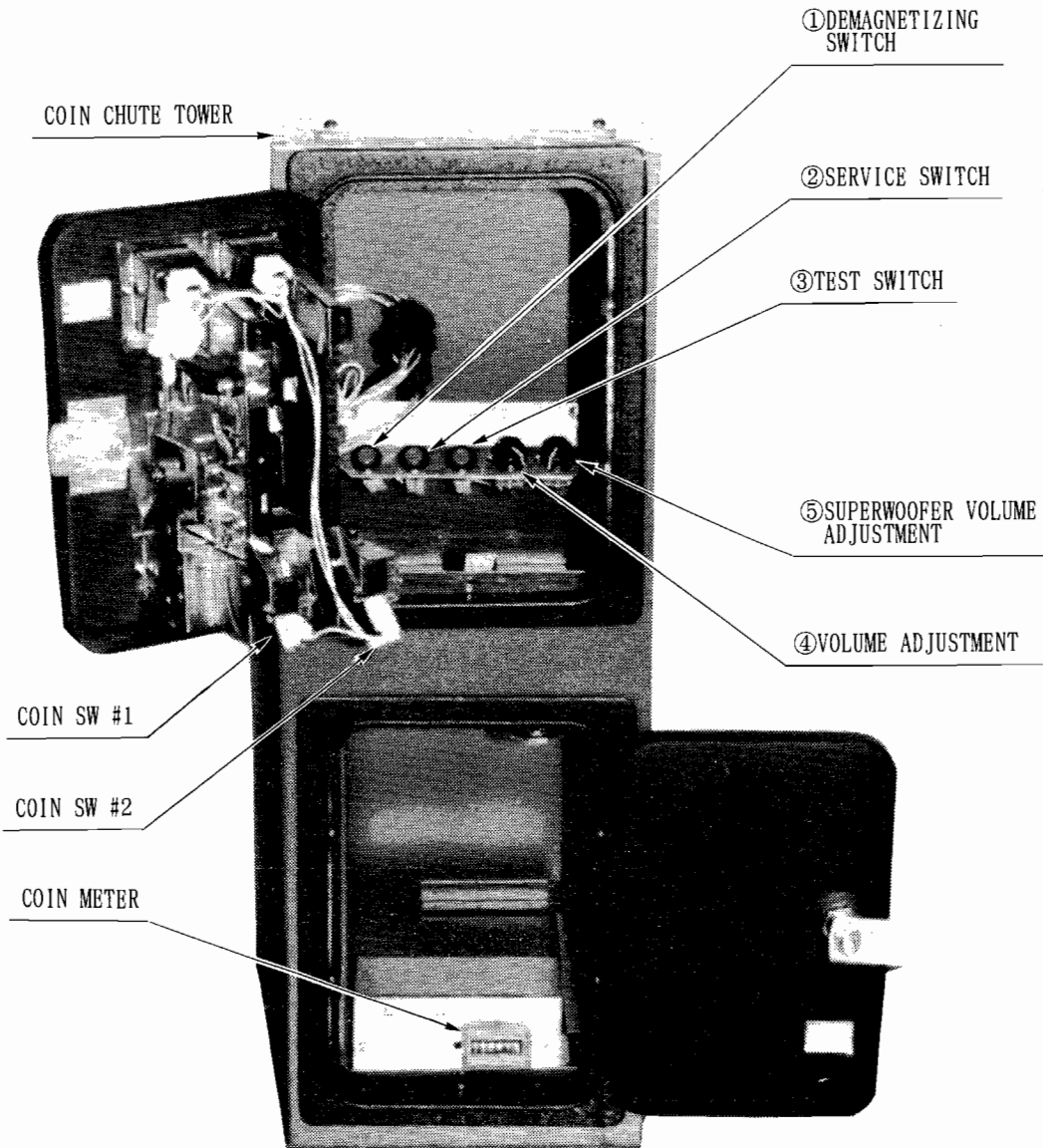
DANGER

At this time, the ASSY COCKPIT tends to lose balance, therefore, be sure to have the work performed by 2 or more persons so that one of them will be able to maintain the COCKPIT's balance.

- ⑥ Lift the COCKPIT upward to separate it from the ASSY BASE.

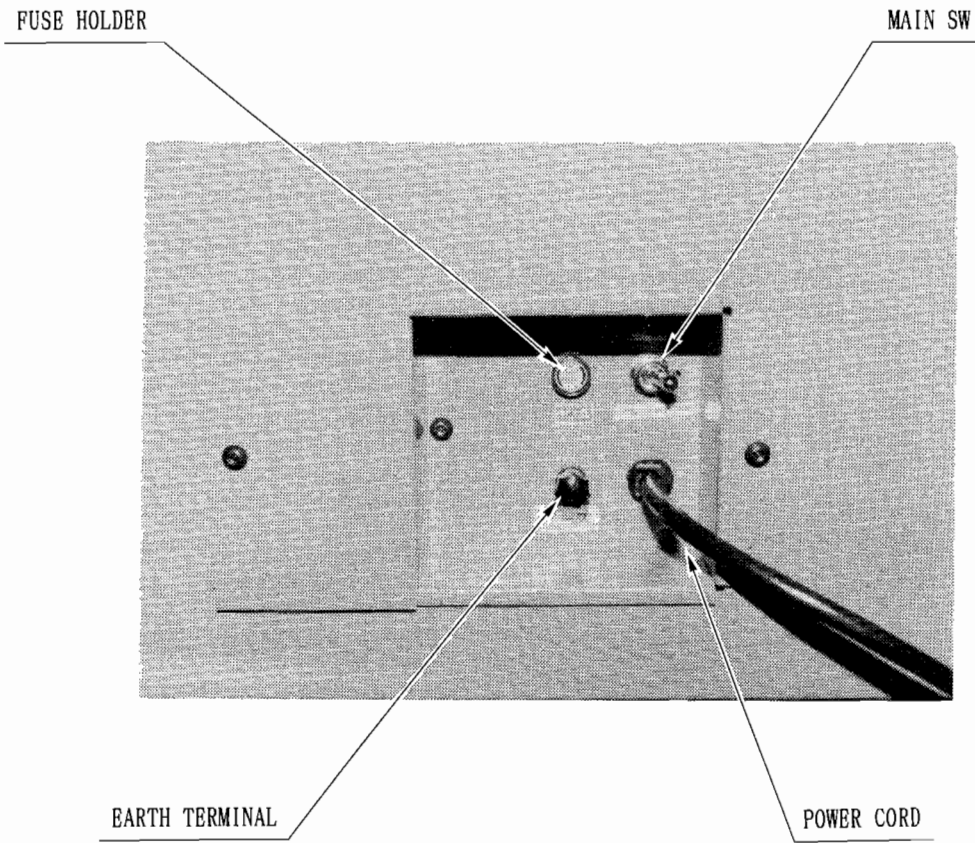


7. SW UNIT



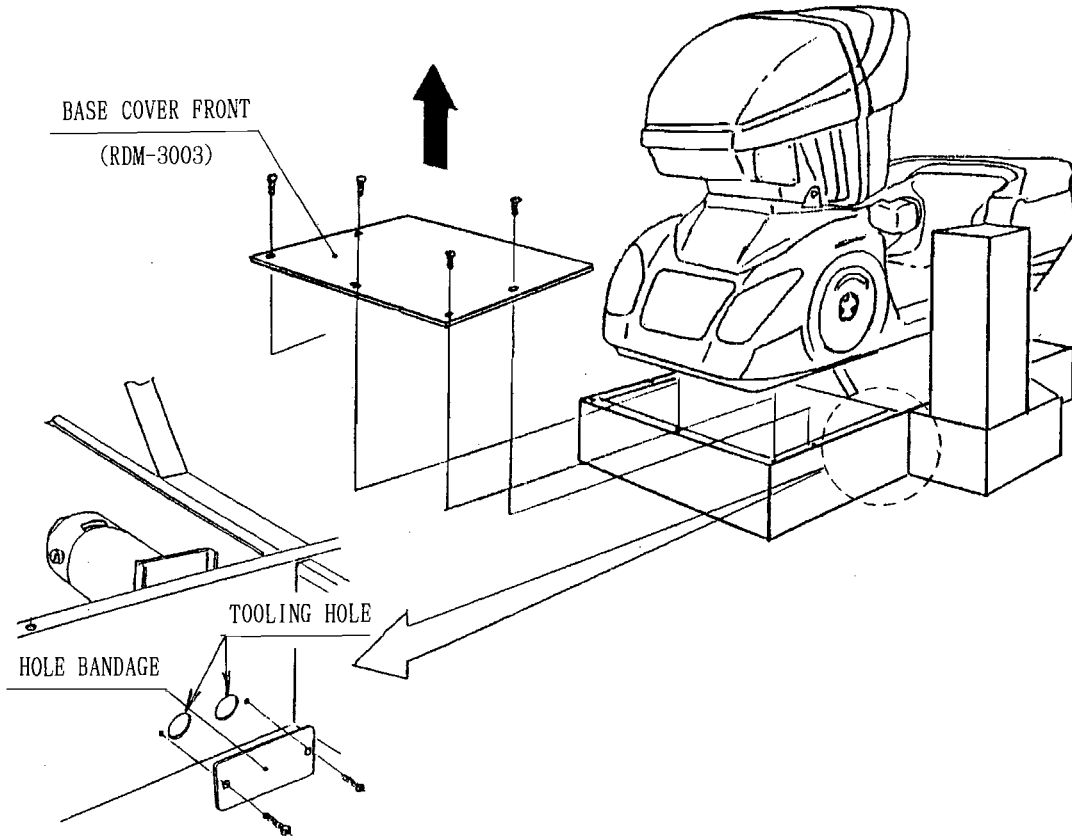
- ① DEMAGNETIZING SWITCH Used for removing the on-screen color unevenness.
- ② SERVICE SWITCH Used for the purpose of servicing and increasing the credits without registering on the meter (this allows you to check the game).
- ③ TEST SWITCH For the operation of this switch, see SELF-TEST.
- ④ VOLUME ADJUSTMENT Adjusts FRONT SPEAKER volume.
- ⑤ SUPERWOOFER VOLUME ADJUSTMENT -- Adjusts SUPERWOOFER VOLUME located under the seat.

8. AC UNIT

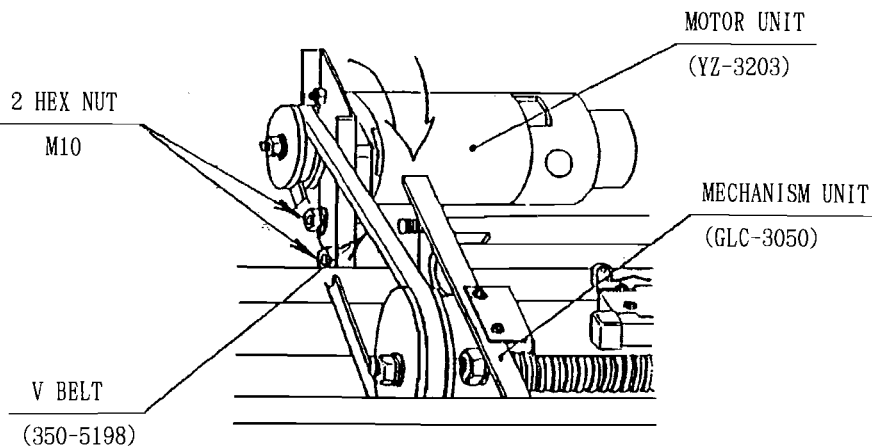


9. REMOVING THE MECHANISM UNIT AND MOTOR

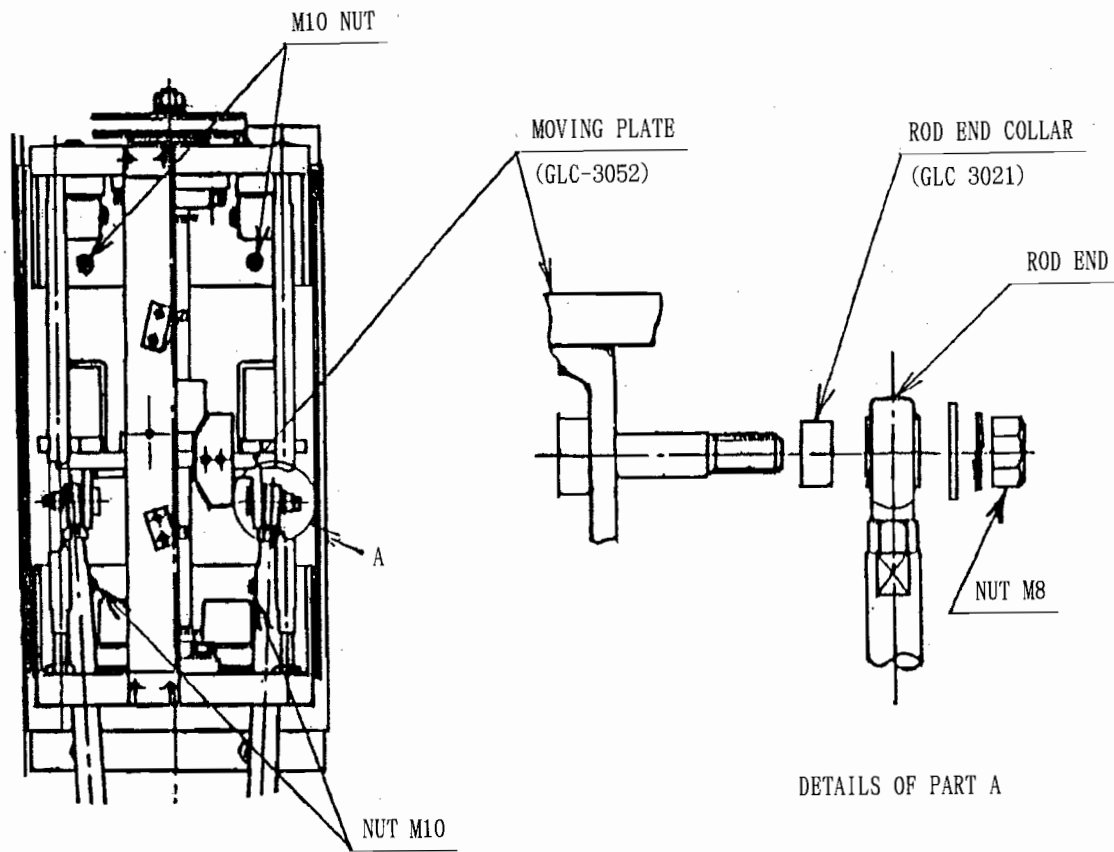
- ① TAKE OFF BASE COVER FRONT (5 TAMPER PROOF SCREW M4)
- ② TAKE OFF HOLE BANDAGE (2 TAMPERPROOF SCREW M4)



- ③ By inserting a ratchet wrench in the gap between the BASE and MOTOR BRACKET, loosen the M10 BOLTS which fasten the MOTOR BRACKET, incline the BRACKET to the MECHANISM side, and the V BELT (350-5198) can be removed from the PULLEY. Also, by taking off the M10 NUTS, the MOTOR UNIT can be removed.



- ④ Take off the HEXAGON NUT (M8) which fastens the ROD END to the MOVING PLATE (GLC-3052)



- ⑤ Finally, take off the 4 (M10) NUTS which fasten the MECHANISM UNIT and disconnect the CONNECTOR to remove the MECHANISM UNIT.

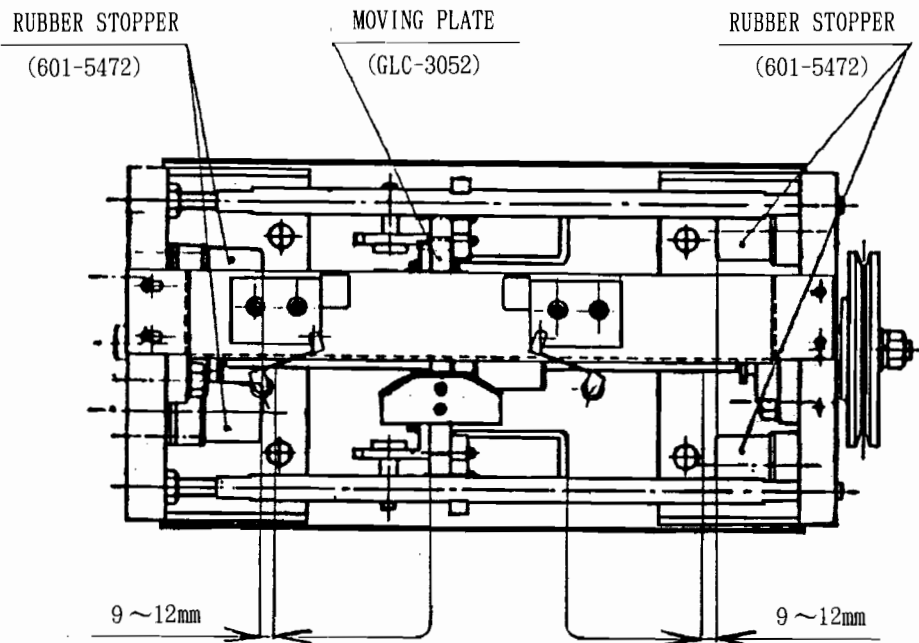
10. ADJUSTMENT OF ASSY MECHANISM'S LIMIT SWITCHES

When carrying out this work, first be sure to turn the power OFF.

- * Manually turn the MECHANISM'S PULLEY to move the MOVING PLATE (GLC-3052)(when the PULLEY turns, the COCKPIT will bank).

When the MOVING PLATE moves and the LIMIT SW is actuated by the ACTUATOR (a click sound will be heard), make adjustments in a manner so that there will be a 9~12 mm clearance in between the MOVING PLATE and RUBBER STOPPER.

Be sure to carry out the abovementioned adjustments for both right & left LIMIT SWITCHes.



11. ADJUSTMENT OF THE V BELT AND REPLACING THE MOTOR BRUSH

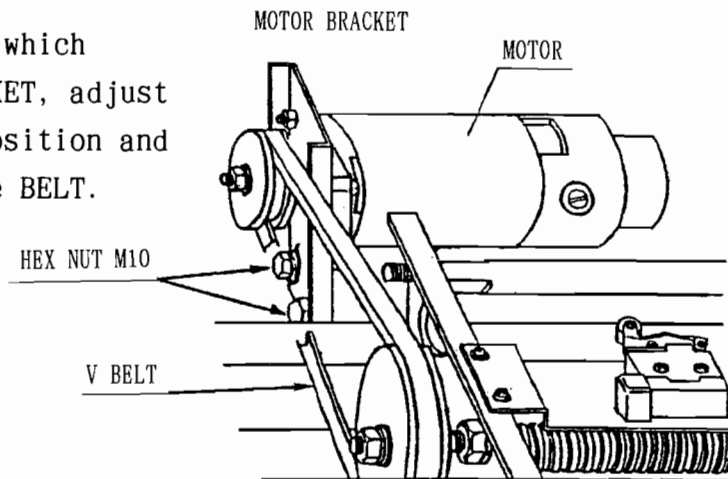
Power for this machine is transmitted by the V belt. The belt, if it slips or is torn, will not work properly and also is very dangerous. Regularly check as to the tension, wear, and deterioration of the belt and make the necessary adjustments and replacements ahead of time.

ADJUSTMENT OF BELT TENTION

- Before making adjustments of the belt tension, be sure that the power is OFF.

For belt tension adjustments, make sure that the belt has an approximate slack of 10 mm when applying a forefinger against the middle part in between the 2 pulleys.

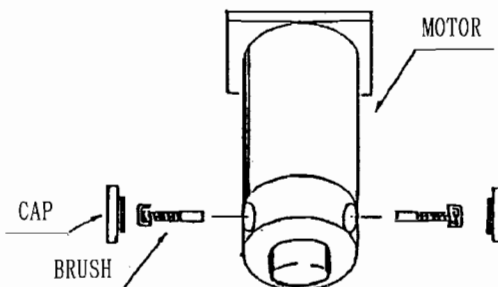
- Loosen the 2 HEX NUTS which fasten the MOTOR BRACKET, adjust the BRACKET'S fixed position and make adjustment of the BELT.



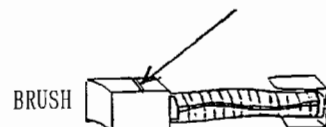
Replace the motor brush as shown below.

Normally, replacement once in six months is recommended. Make sure that both the 2 brushes are replaced.

- ① To remove the cap, turn it by using a driver, etc.
- ② Take the brush out for replacement.



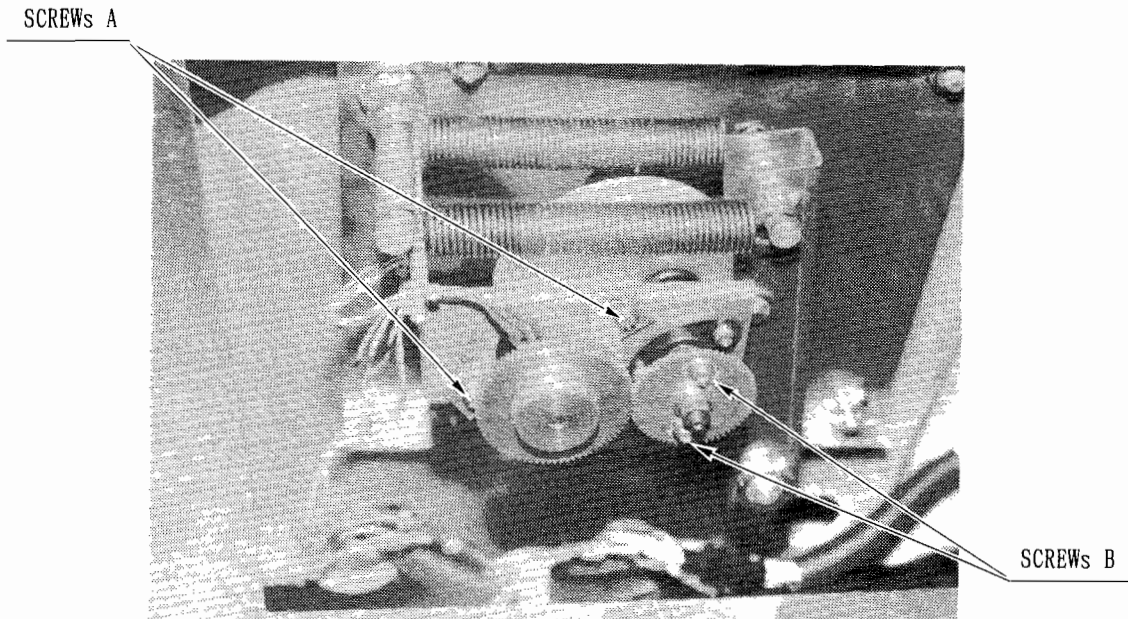
- Replace the brush when it wears out up to this line.



12. HANDLE V.R. ADJUSTMENT

- Perform the V.R. adjustments in the INPUT TEST MODE.

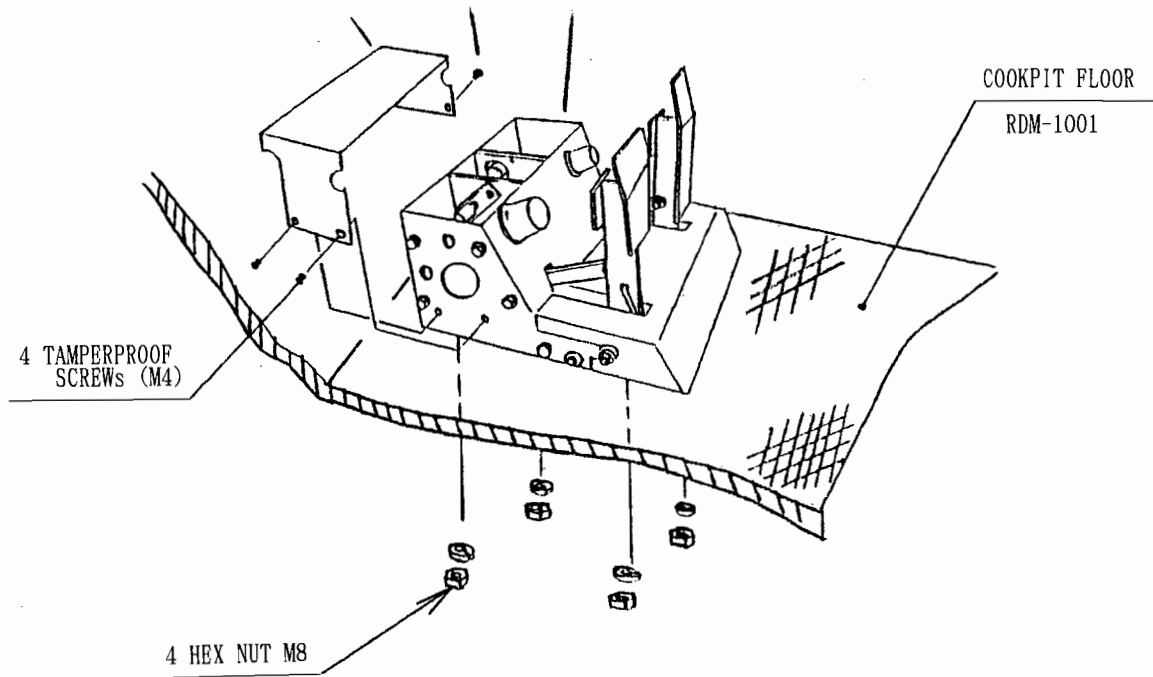
When adjusting the HANDLE V.R., loosen the four TAMPERPROOF SCREWS and remove the BONNET PLATE (RDM-1007)



- ① Loosen SCREWS A which secure the VOLUME BRACKET and move the VOLUME BRACKET.
- ② Move the VOLUME BRACKET to disengage the VOLUME GEAR and HANDLE GEAR. At this time, turn the VOLUME shaft in a manner so as to make sure that the on-screen value is within the allowable range ($80H \pm 4H$).
- ③ Fasten SCREWS A and at this time, make backlash adjustments.
- ④ When fine adjustments are needed, loosen SCREWS B, turn the HANDLE GEAR and make fine adjustments.

13. REMOVING & ADJUSTING THE ACCELERATOR/BRAKE UNIT

Remove the ACCELERATOR/BRAKE UNIT from the COCKPIT by taking off the four M8 NUTS from the underside of the COCKPIT.

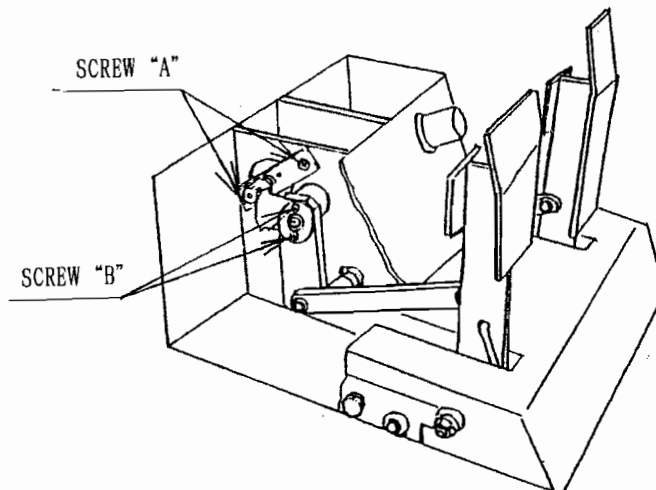


ACCELERATOR/BRAKE VOLUME ADJUSTMENT

- ① Display the INPUT TEST MODE (see P.34) screen.
- ② When the variable valve is not within the allowable range, make adjustments by using the following procedure:
 - a) Loosen the SCREWS "A" used for adjustment.
 - b) Turn the GEAR which is attached to the ACCELERATOR/BRAKE VOLUME and make variable value adjustments.
 - c) With attention paid to the GEAR engagement, fasten SCREWS A.
 - d) When needed, make further fine adjustments by loosening ADJUSTMENT SCREWS B.

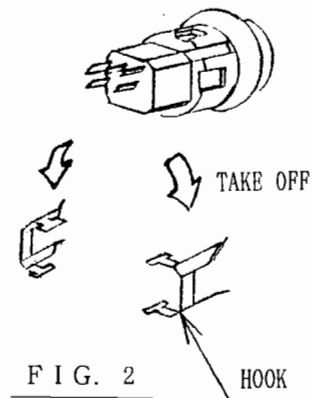
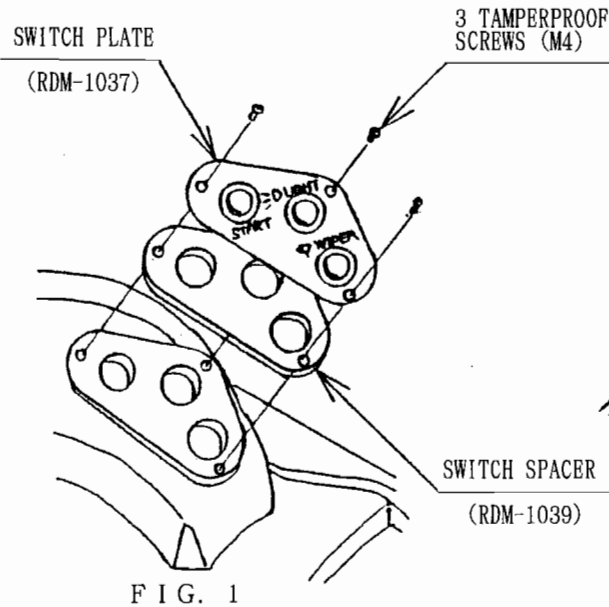
ACCELERATOR		
Minimum value	Maximum value	Minimum value:
28H or lower	BOH or higher	Refers to value obtained when you do not step on the pedal.
→		

BRAKE		
Minimum value	Maximum value	Maximum value:
28H or lower	C8H or higher	Refers to the value obtained when you fully step on the pedal.
→		

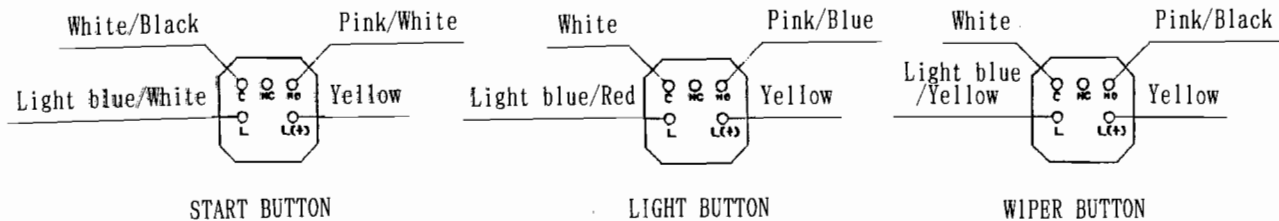


14. REPLACING THE START/LIGHT/WIPER BUTTONS

- In the OUTPUT TEST MODE, when the START/LIGHT/WIPER BUTTONS do not light up, replace the BUTTONS in accordance with the following procedure:



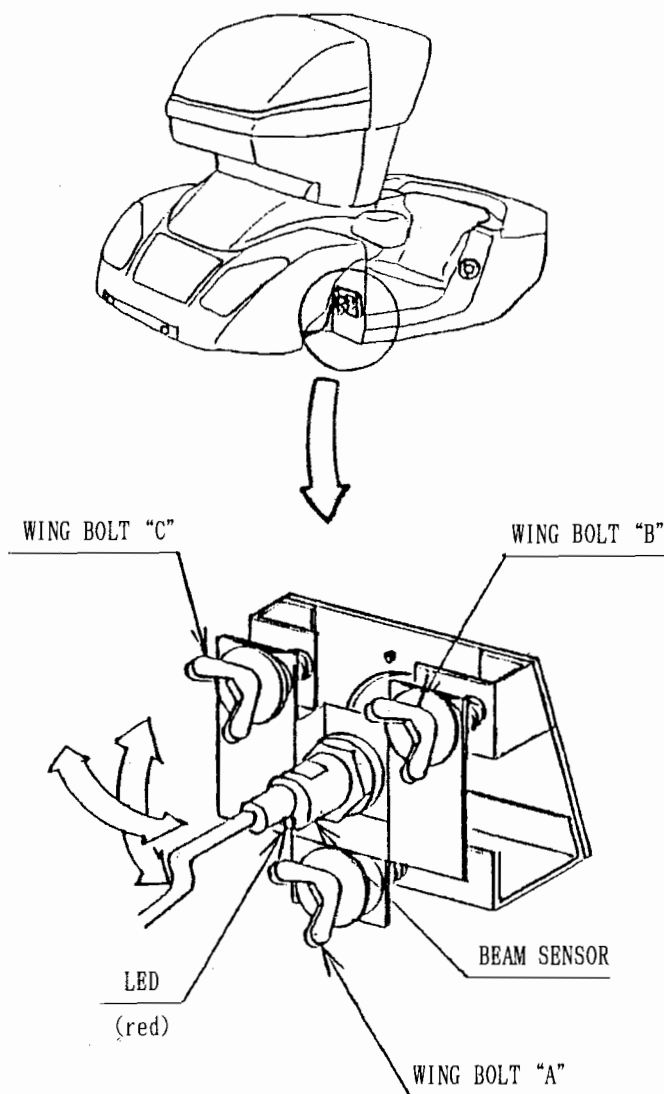
WIRE CONNECTION



- ① Take off the 3 TAMPERPROOF SCREWS which secure the SWITCH PLATE.
- ② Pull the SWITCH PLATE towards you and disconnect any of the abovementioned BUTTONS that might not light up. At this time, pay careful attention so that the wires do not go into the DASHBOARD holes.
- ③ In a manner as shown in FIG. 2, remove the button (S) to be replaced and install a new BUTTON (s).
- ④ In accordance with the wiring diagram, insert the WIRE CONNECTOR PIN and install the SWITCH PLATE in the procedure opposite to the above.

15. BEAM SENSOR ADJUSTMENT

- When adjusting the BEAM SENSOR, display the MOTOR TEST MODE (see page 39) screen.



ADJUSTING THE COCKPIT SENSOR

- In the MOTOR TEST mode, when the SENSOR A is ON, make adjustments to the COCKPIT SENSOR shown in the FIGURE.

HOW-TO-ADJUST

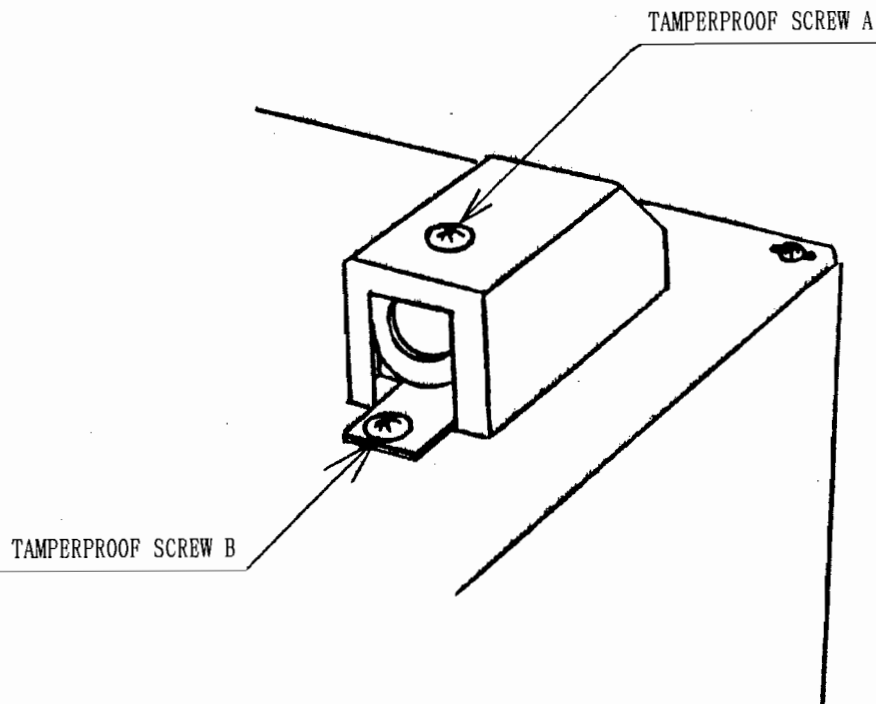
Make adjustments by using the 3 WING BOLTS shown.

Adjustments can be made in the up / down directions by using SCREW A and the left / right directions by using SCREW B and C.

In the MOTOR TEST mode, make adjustment in a manner so that the "ON" letters for the SENSOR A goes off, or the BEAM SENSOR's LED (red) lights up.

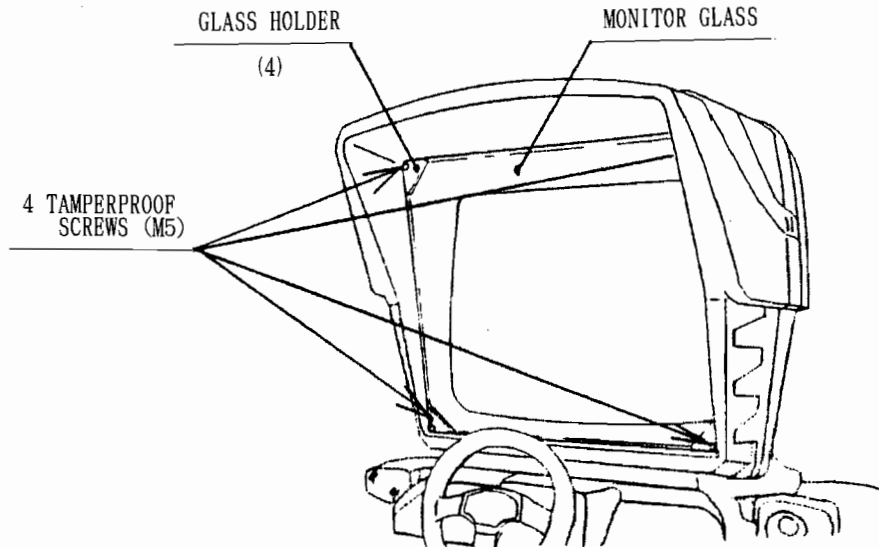
ADJUSTING THE ASSY BASE SIDE SENSOR

- ① Loosen TAMPERPROOF SCREWS A and B which secure the BEAM SENSOR and make adjustments of the SENSOR directions in a manner so as to ensure that the "ON" letters for SENSOR B, C, and D will disappear.
- ② With attention paid to the SENSOR directions, fasten TAMPERPROOF SCREWS A and B.



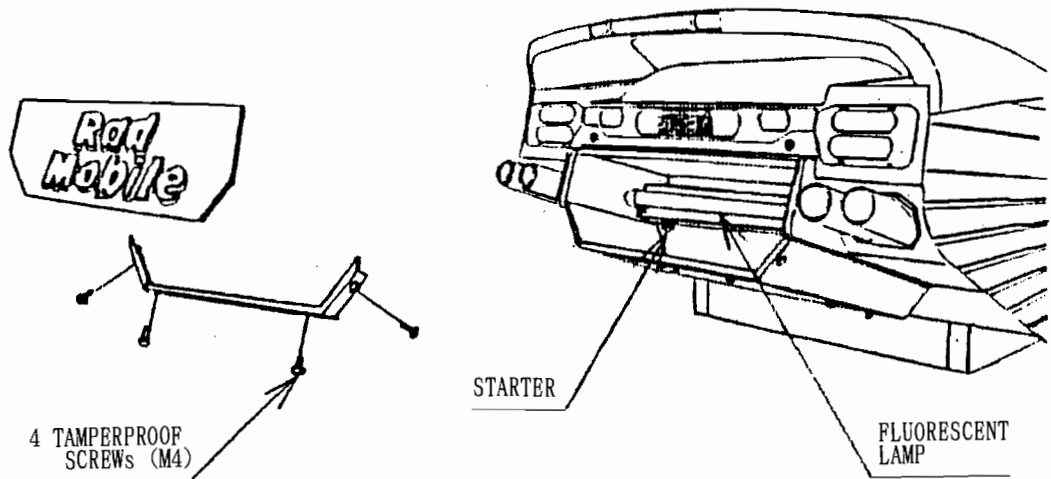
16. MONITER CLEANING AND FLUORESCENT LAMP REPLACEMENT

MONITOR CLEANING



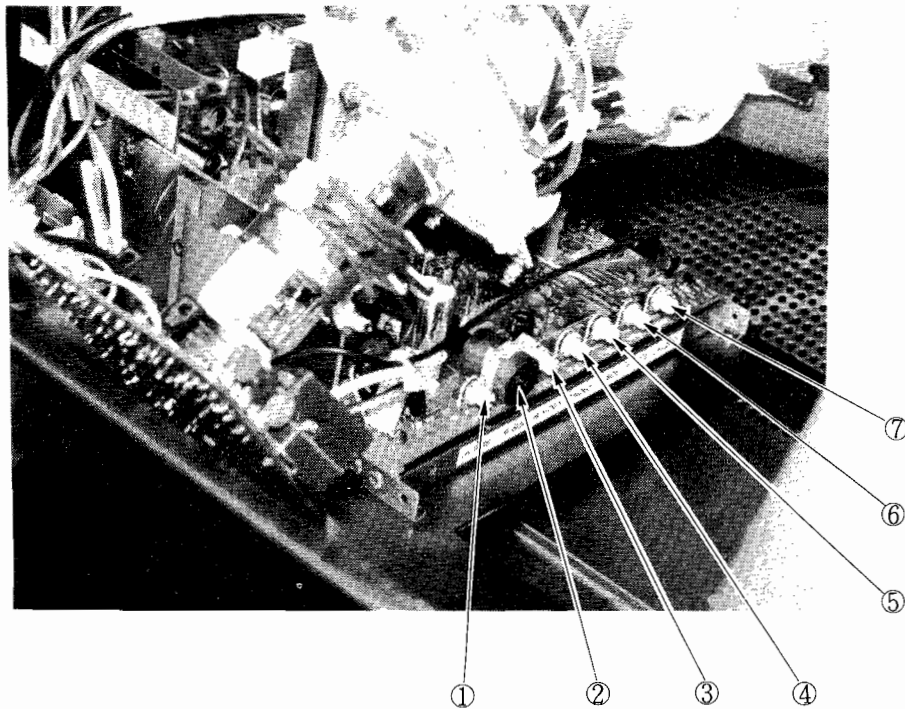
Take off the four TAMPERPROOF SCREWS (M5) and the 4 GLASS HOLDERS to remove the MONITOR GLASS, and clean the CRT display surface.

FLUORESCENT LAMP REPLACEMENT

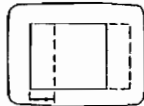


Loosen the four TAMPERPROOF SCREWS and remove the BILLBOARD to replace the FLUORESCENT LAMP.

17. 26 INCH MONITOR

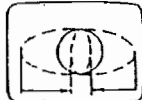


- ① H-POSITION.



The image's horizontal position is adjustable.

- ② H-SIZE.



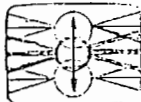
The horizontal image dimensions are adjustable.
For adjustments, use a hexagonal driver.

- ③ H-HOLD.



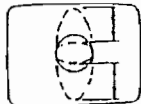
This adjusts the horizontal distortions.

- ④ V-HOLD.



The on-screen image's vertical distortion is adjustable.

- ⑤ V-SIZE.



The vertical image dimensions are adjustable.

- ⑥ V-POSITION.



The image's vertical position is adjustable.

- ⑦ BRIGHT.

This adjusts the on-screen image brightness.

18. PERIODICAL INSPECTION

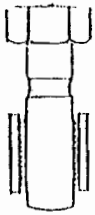
Periodical greasing of the mobile parts are required.

Apply grease in accordance with the following instructions:

Normally, replacement once in 2 months is recommended.

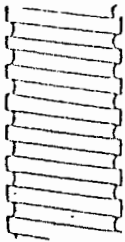
Lubricate the MECHANISM UNIT
and the CRANK UNIT are per
the illustration.

Ⓐ ROD END



Apply grease to the surfaces of the inner ring (diagonally lined portion as per the illustration).

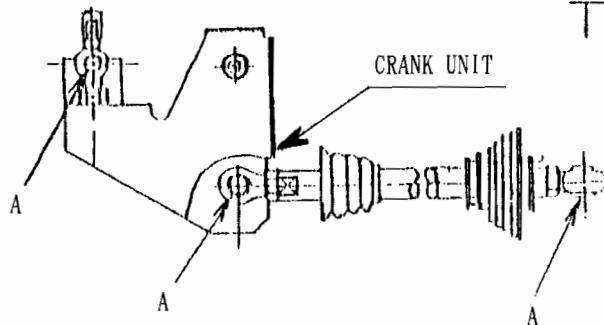
Ⓑ BALL SCREW



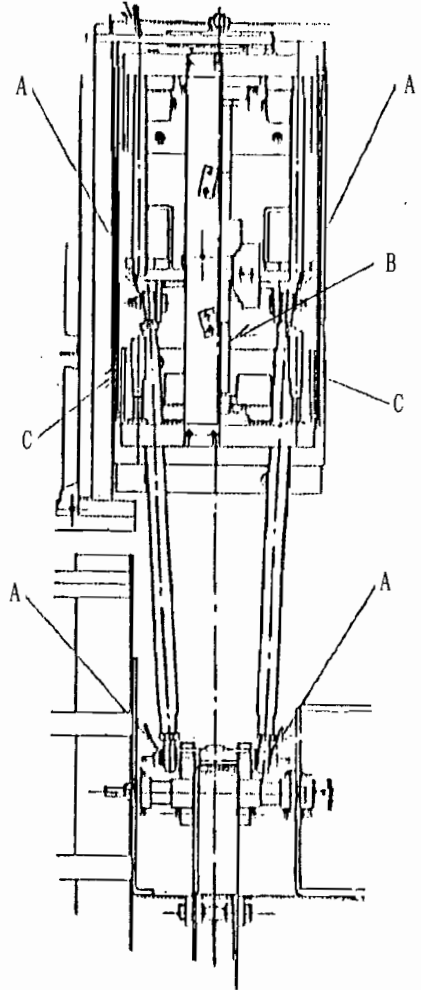
Apply grease to the screw surfaces by hand or by using a spatula.

Ⓒ ADJUST SHAFT

Apply grease to the ADJUST SHAFT



MECHANISM UNIT



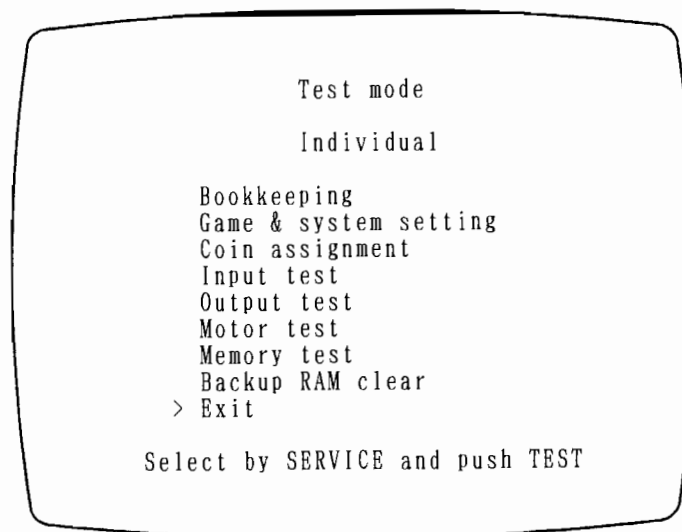
When lubricating, so as not to cause any malfunction, make sure that no foreign matter such as dust, etc. gets into the grease.

19. TEST MODE

This test mainly checks the operation of game PCB's, discovers defects if any, and also checks monitor colors and audio quality. In addition, the test indicates Coin mode and has a Bookkeeping function.

© Selection of test ITEMS

- (1) Push the TEST SW to cause the following TEST ITEM MENU to appear :



```
Test mode
Individual
Bookkeeping
Game & system setting
Coin assignment
Input test
Output test
Motor test
Memory test
Backup RAM clear
> Exit
Select by SERVICE and push TEST
```

- (2) By pushing the SERVICE SW, bring the arrow mark ">" to the desired item and press the TEST button.
- (3) When the test has been completed, bring ">" to EXIT and push the TEST button.

Bring ">" to "INDIVIDUAL" and push the TEST button to change it to "CONTINUE."

Bringing ">" to "CONTINUE" and pushing the TEST button without pressing the SERVICE button will change the screen sequentially.

1. Bookkeeping

Credit Report		page1/2
Coin chute #1	54	} ①
#2	0	
Coin credits	54	②
Service credits	6	③
Total credits	60	④

Push TEST to return menu
Push SERVICE to other page

- | | |
|--------------------------------------|---------------------------------------|
| ① Usage frequency of each COIN CHUTE | ③ Usage frequency of each SERVICE SW. |
| ② Total COIN CHUTE usage frequency | ④ Total credits |

Press the SERVICE SW button to display the following :

Time Report		page2/2
Total time	8h 36m 0s	①
Total play time	5h 30m 44s	②
Average play time	0h 1m 46s	③
Longest play time	0h 9m 0s	④

Game Report		
New games	42	⑤
Continue games	58	⑥
Total play games	100	⑦

Push TEST to return menu
Push SERVICE to other page

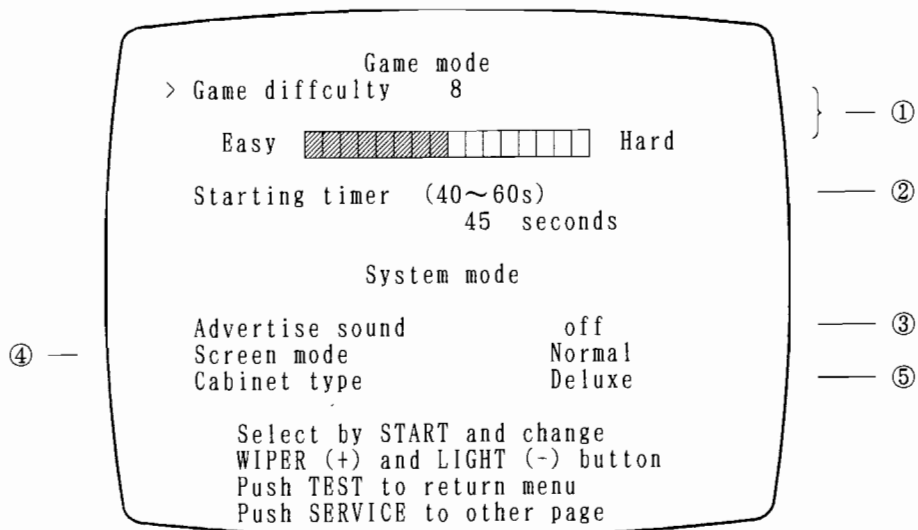
- ① Machine's total energized time

- ② Total game play time
- ③ Average game play time
- ④ Longest game play time
- ⑤ New games
- ⑥ Continue games
- ⑦ Total play games

Press the TEST Button to cause the MENU mode to return on to the screen.

2. Game & system setting

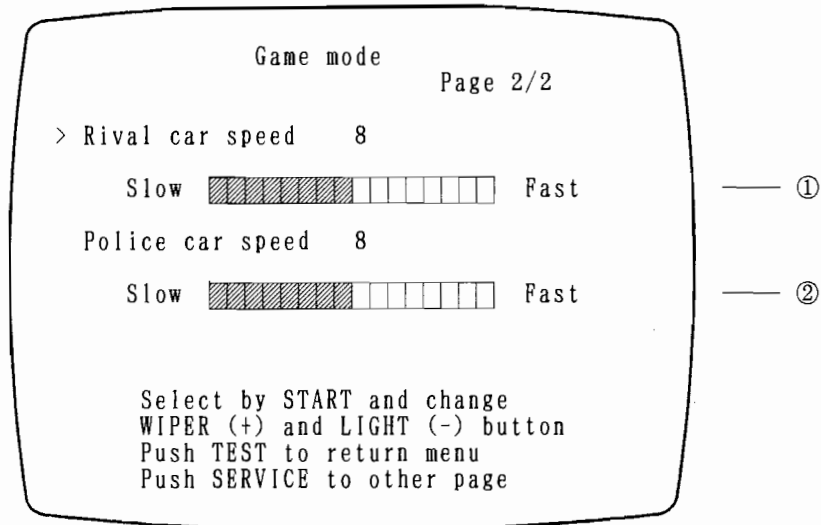
Game difficulty adjustment and the cabinet type are displayed.



- ① Game difficulty
Normally, 8
- ② Play times setting
Normally, 45 sec.
- ③ Advertice sound
Normally, off
- ④ Type of Screen mode
Normally, Normal
- ⑤ Type of Cabinet
Normally, Deluxe

Press the START button, bring the ">" to the item for which you desire to make a change, and then change the numerical value by using either the WIPER SW. or the LIGHT SW.

Press the SERVICE BUTTON to have the following screen appear:

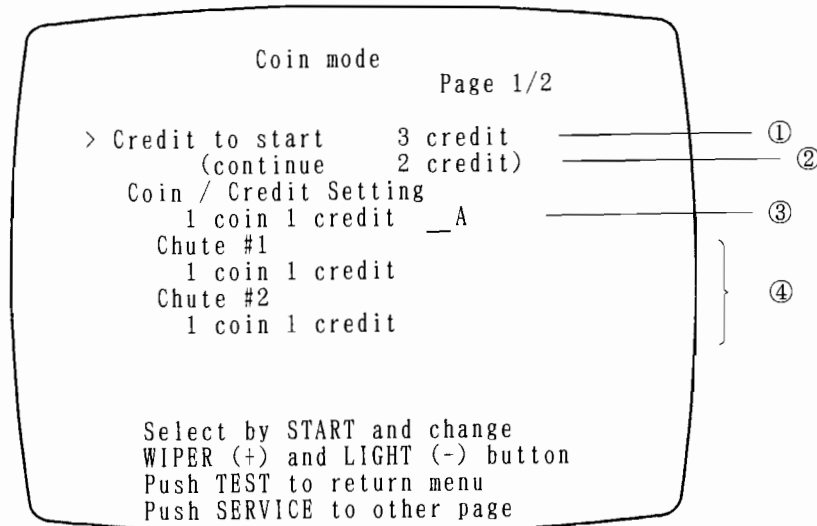


- ① The rival cars' speed can be set
(slowest, 1 ... fastest, 16)
- ② The police car speed can be set
(slowest, 1 ... fastest, 16)

Press the START BUTTON to move the ">".
Bring the ">" to the desired item and press the WIPER or
LIGHT Button to change the contents of the setting.

3 Coin assignment

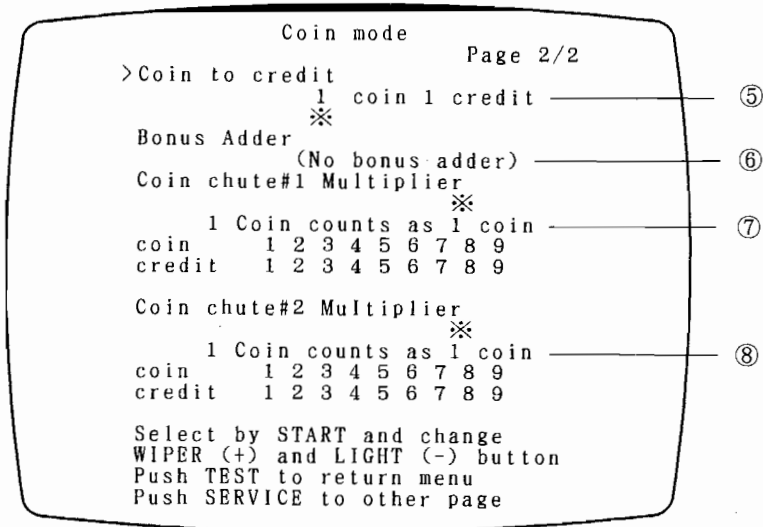
Shows the number of credit(s) to start, and number of credit(s) to CONTINUE.



- ① Number of credit(s) to start
- ② Refers to the number of credits CONTINUE.
- ③ Twenty seven kinds of standerd coin modes can be selected.
- ④ Displays the COIN modes for COIN CHUTE#1 and #2

By pressing the START button, select the desired item, and the numeral can be increased or decreased by using either the WIPER SW, or the LIGHT SW.

Press the SERVICE button, and the following screen will appear (this is applicable in cases other than standard COIN modes).



※ Increase and decrease in numerals

- ⑤ The number of coins required for one credit.
- ⑥ Lets you choose from various kinds of bonuses of no bonus.
- ⑦ The number of coins each counts as in the coin chute#1.
- ⑧ The number of coins each counts as in the coin chute#2.

Press the START button to move the ">" Bring the ">" to the desired item and press the WIPER or LIGHT Button to change the contents of the setting.

- ⑤ Coin to credit (The number of tokens required for one credit.)

1 coin	1 credit
2 coin	
3 coin	
4 coin	
5 coin	
6 coin	
7 coin	
8 coin	
9 coin	

- ⑥ Bonus Adder (The number of inserted tokens required for a BONUS token)

No bonus adder free play	No extra coin free play
2 coins give	1 extra coin
3 coins give	
4 coins give	
5 coins give	
6 coins give	
7 coins give	
8 coins give	
9 coins give	

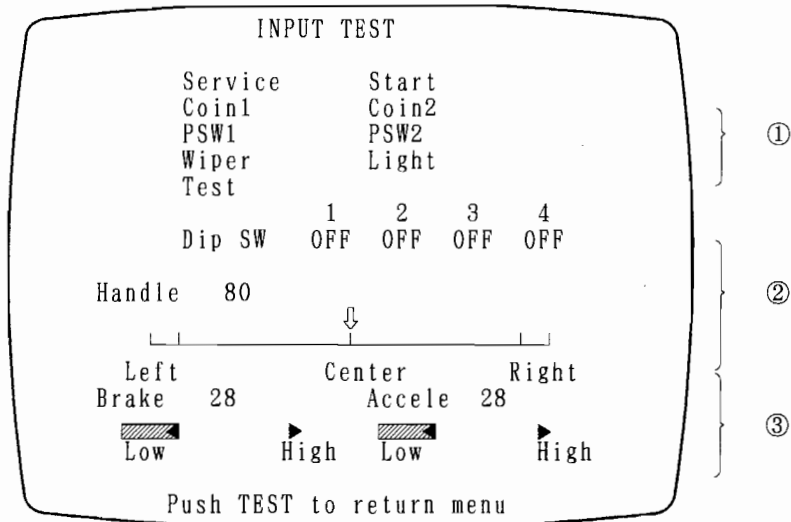
- ⑦ COIN CHUTE #1 Multiplier
(The number of tokens the inserted token represents in Coin Chute #1.)

1 coin counts as	1 coin
	2 coin
	3 coin
	4 coin
	5 coin
	6 coin
	7 coin
	8 coin
	9 coin

- ⑧ coin chute #2 Multiplier
Same as number ⑦.

4 Input test

Indicates the condition of each switch and POTENTIOMETER.



- ① Indicates the condition of each switch. Operate each switch. When the "OFF" condition is changed to "ON," the corresponding switch is in good working order.
- ② It is satisfactory if data values increase (higher than 80) when the steering wheel is moved to the right, decrease (lower than 80) when it is moved to the left, and indicate "80H" when released.

← HANDLE →

7CH 7DH 7EH 7FH 80H 81H 82H 83H 84H

Standard value

③ BRAKE / ACCELERATOR POTENTIOMETER VALUE

If the data value increases when pressure is applied to the ACCELERATOR's of BRAKE's pedal, it tests out satisfactorily.

BRAKE
Minimum 28H or lower
Maximum 80H or higher

ACCELERATOR
Minimum 28H or lower
Maximum C8H or higher

← BRAKE
24H 25H 26H 27H 28H
Standard value

← ACCELERATOR
24H 25H 26H 27H 28H
Standard value

When pressure is not applied to the pedal, it is satisfactory if the following value is obtained:

BRAKE 28H or lower
ACCELERATOR 28H or lower

BRAKE →
80H B1H B2H B3H B4H
Standard value

ACCELERATOR →
C8H C9H CAH CBH CCH
Standard value

When pressure is fully applied to the pedal, it is satisfactory if the following value is obtained:

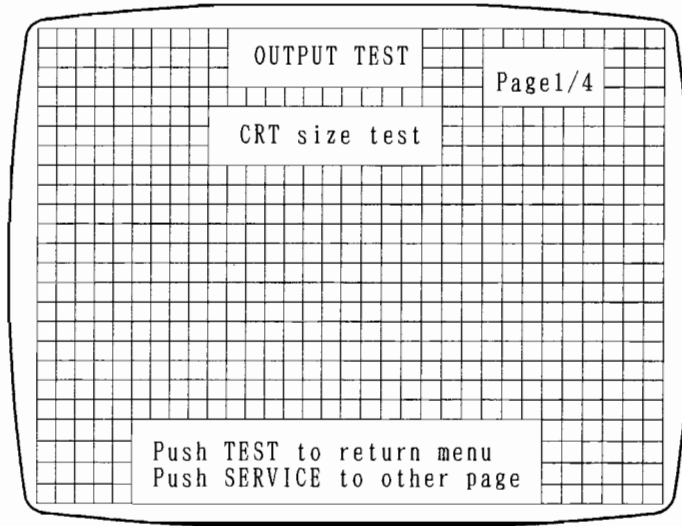
BRAKE C8H or higher
ACCELERATOR 80H or higher

Press the TEST Button to cause the MENU mode to return on to the screen.

5 Output test

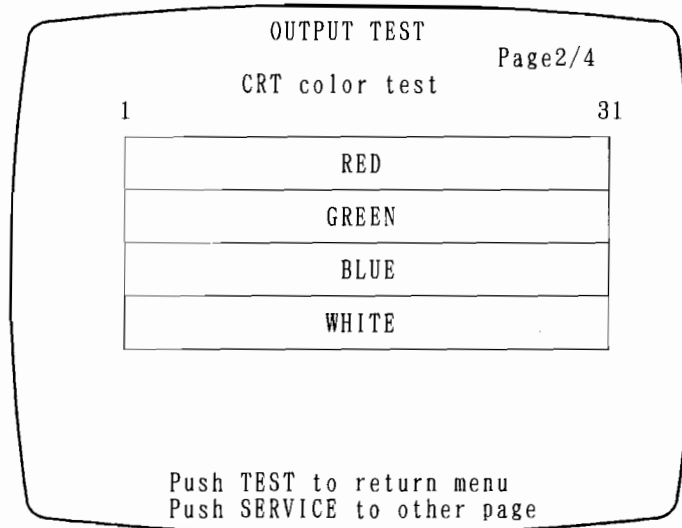
(1) C. R. T. TEST

① Monitor adjustment check



Checks the C. R. T. position
Make sure that the on-screen
corners are consistent and
then make size adjustments.

② RGB color check

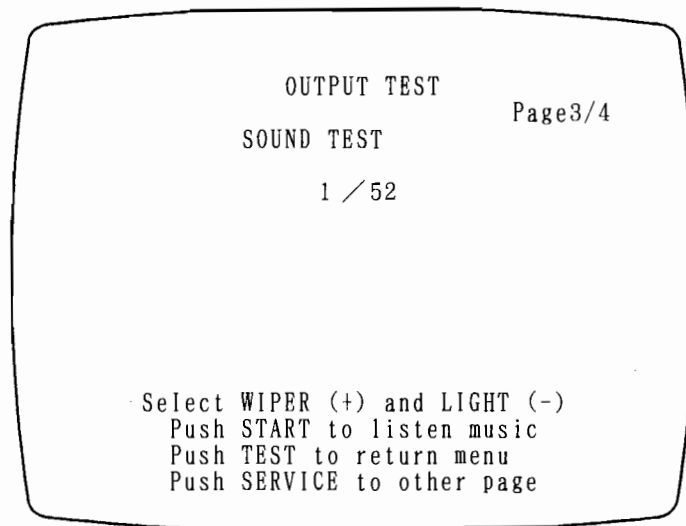


The color becomes blighter from the left to the right.

③ Brightness check

Becomes brighter from the left (black) to the right (white).

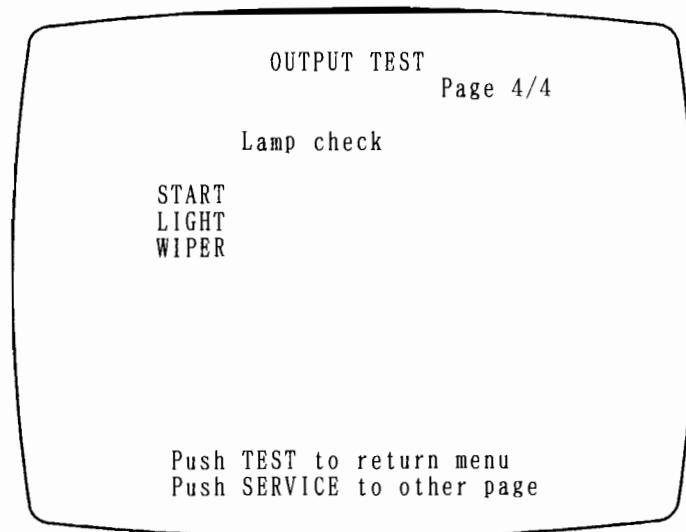
(2) SOUND TEST



Pushing WIPER SW. increases the number and pushing LIGHT SW. decreases the number.

Push the START SW. when the desired number is shown.

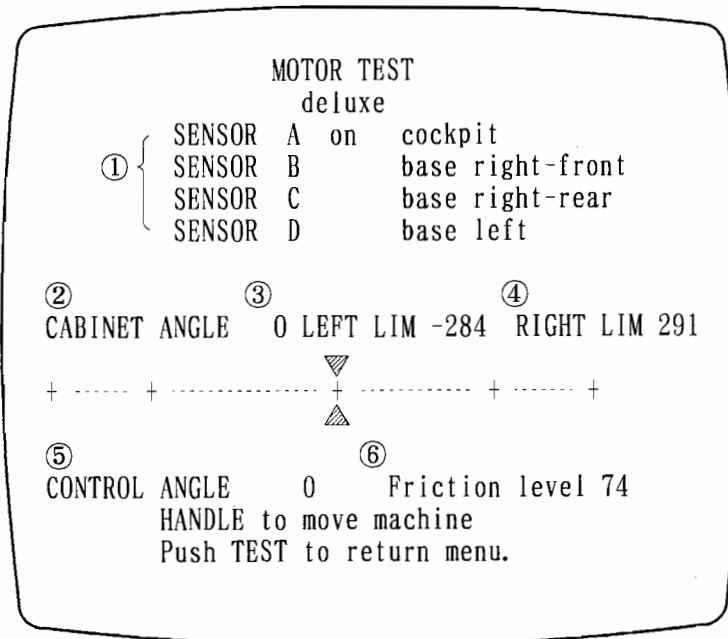
(3) LAMP TEST



The LIGHT, WIPER and START LAMP will flash.

6 . MOTOR TEST

Manually move the COCKPIT and check the MOTOR, LIMIT SWes, etc. to see if they are satisfactorily operating.



- ① Indicates the condition of each BEAM SENSOR.
If any one of these SENSORS shows "ON", the COCKPIT will not operate even during the TEST mode.
- ② Shows the COCKPIT's banking angle in a numerical value.
- ③ Indicates in a numerical value, the position of the LIMIT SW which determines that the COCKPIT has completely banked to the left. (Normally condition value -265 ± 30)
- ④ Shows in a numerical value, the position of the LIMIT SW which determines that the COCKPIT has completely banked to the right. (Normally condition value 265 ± 30)
- ⑤ Indicates the numerical value which shows the COCKPIT's banked position. This value varies as the HANDLE is turned, and the COCKPIT's banking also varies in accordance with the value.
- ⑥ MECHANICAL Friction level
MACHINE's Load level. (Normally condition value $55 \sim 110$)

Note : ② or ⑤ Maximum value

banked to the left ③ value $\times 0.75 \pm 30$

banked to the right ② value $\times 0.75 \pm 30$

Note that after warming-up or during play, when entering MOTOR TEST while "Motor trouble" is appearing on the central part of the screen, MOTOR TEST will not be displayed and instead, the causes of the trouble or the places where the trouble is considered to have occurred will be displayed in writing.

MESSAGE	CONTENT OF MESSAGE AND MAIN CAUSES
Can't communicate to drive BD. or Not responded.	Can't communicate with the MOTOR CONTROL DRIVE BD. There are irregularities in the MOTOR CONTROL BD., wiring, etc.
Right limit SW non	The LIMIT SW which determines that the COCKPIT has completely banked to the right does not function. There are irregularities in the MICROSWITCH / WIRING.
Left limit SW non.	The LIMIT SW which determines that the COCKPIT has completely banked to the left does not function. There are irregularities in the MICROSWITCH / WIRING.
Center limit SW non.	The MAGNET SW which determines that the COCKPIT banking is in the neutral position does not function. There are irregularities in the MAGNET SW / WIRING.
Motor not move	The motor does not turn. There are irregularities in the MOTOR, MOTOR DRIVER, WIRING, etc.
Cabinet not move	Due to mechanical load, the cabinet does not operate.

Unable to read

Encoder for motor. Motor speed measurement value is irregular.
There are irregularities in the Encoder that
measures motor speed, wiring, etc.

Unable to read Encoder

for bank position The COCKPIT banking angle's measurement value
is irregular. There are irregularities in the
Encoder which measures the COCKPIT's banking
angle, wiring, etc.

Press the TEST Button to cause the MENU mode to return on to the
screen.

7 Memory test

Check the PCB's MEMORY ICs.

When the IC is in good operating condition, "GOOD" will be indicated.

If there exists any malfunctioning of the IC's, "BAD" will be indicated.

```
MEMORY TEST
* * * ROM TEST * * *
IC 21 GOOD
IC 37 GOOD   IC 38 GOOD
* * * RAM TEST * * *
IC 16 GOOD   IC 36 GOOD
IC 37 GOOD   IC 61 GOOD
IC 62 GOOD   IC 63 GOOD
IC 64 GOOD   IC 65 GOOD
IC 66 GOOD   IC 68 GOOD
IC 69 GOOD   IC 70 GOOD
IC 71 GOOD   IC 74 GOOD
IC 75 GOOD
Push TEST to return menu
```

8 Backup RAM clear

The BOOKKEEPING data can be cleared. When clearing, bring ">" to "YES" and when not clearing, to "NO," by using the SERVICE SW, and then push the TEST button.

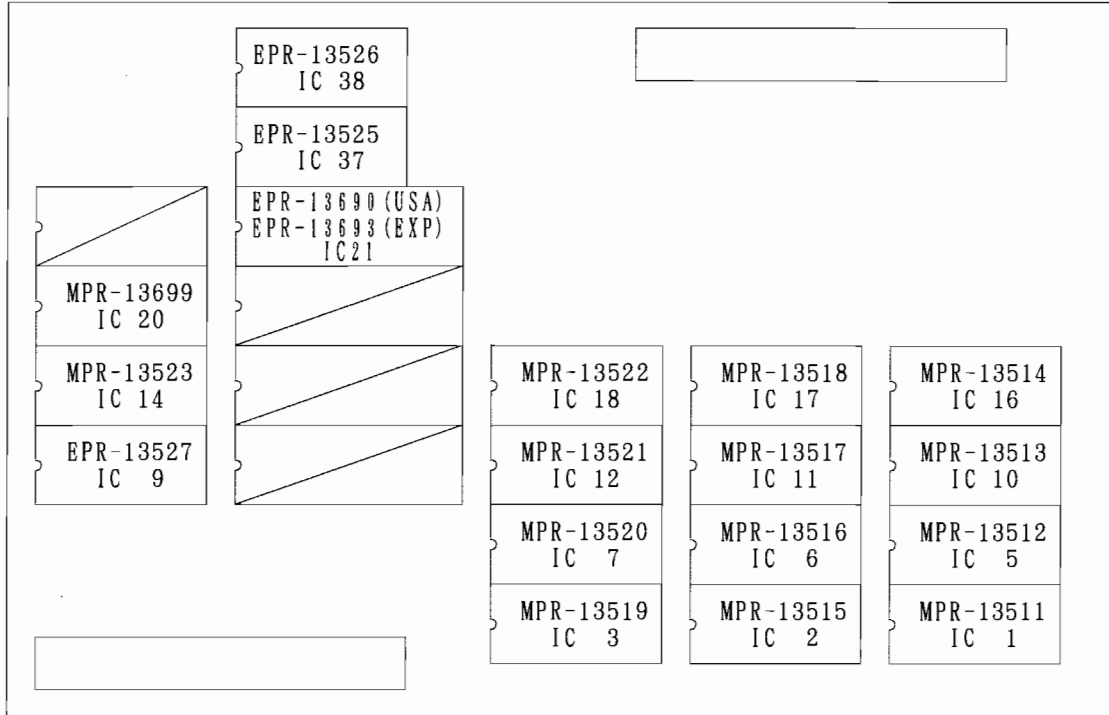
```
BACKUP RAM CLEAR
YES (Clear)
> NO (Cancel)
Select by SERVICE and push TEST
```

20. COIN/CREDIT SETTING

COIN/CREDIT SETTING	COIN CHUTE #1	COIN CHUTE #2
1 Coin 1 Credit-A -B -C -D -E	1 Coin 1 Credit 1 Coin 1 Credit 1 Coin 1 Credit 1 Coin 1 Credit 1 Coin 1 Credit	1 Coin 1 Credit 1 Coin 2 Credits 1 Coin 3 Credits 1 Coin 4 Credits 1 Coin 5 Credits
1 Coin 2 Credits-A -B	1 Coin 2 Credits 1 Coin 2 Credits	1 Coin 2 Credits 1 Coin 5 Credits
1 Coin 3 Credits-	1 Coin 3 Credits	1 Coin 3 Credits
1 Coin 4 Credits-	1 Coin 4 Credits	1 Coin 4 Credits
1 Coin 5 Credits-	1 Coin 5 Credits	1 Coin 5 Credits
1 Coin 6 Credits-	1 Coin 6 Credits	1 Coin 6 Credits
2 Coins 1 Credit-A -B -C	2 Coins 1 Credit 2 Coins 1 Credit 2 Coins 1 Credit	2 Coins 1 Credit 1 Coin 1 Credit 1 Coin 2 Credits
2 Coins 3 Credits-A	1 Coin 1 Credit 2 Coins 3 Credits	1 Coin 1 Credit 2 Coins 3 Credits
2 Coins 3 Credits-B	1 Coin 1 Credit 2 Coins 3 Credits	1 Coin 3 Credits
3 Coins 1 Credit	3 Coins 1 Credit	3 Coins 1 Credit
4 Coins 1 Credit	4 Coins 1 Credit	4 Coins 1 Credit
4 Coins 5 Credits-A	1 Coin 1 Credit 2 Coins 2 Credits 3 Coins 3 Credits 4 Coins 5 Credits	1 Coin 1 Credit 2 Coins 2 Credits 3 Coins 3 Credits 4 Coins 5 Credits
4 Coins 5 Credits-B	1 Coin 1 Credit 2 Coins 2 Credits 3 Coins 3 Credits 4 Coins 5 Credits	1 Coin 5 Credits
5 Coins 2 Credits	3 Coins 1 Credits 5 Coins 2 Credits	1 Coin 2 Credits
5 Coins 3 Credits-A	2 Coins 1 Credit 4 Coins 2 Credits 5 Coins 3 Credits	2 Coins 1 Credit 4 Coins 2 Credits 5 Coins 3 Credits
5 Coins 3 Credits-B	2 Coins 1 Credit 4 Coins 2 Credits 5 Coins 3 Credits	1 Coin 3 Credits
5 Coins 6 Credits-A	1 Coin 1 Credit 2 Coins 2 Credits 3 Coins 3 Credits 4 Coins 4 Credits 5 Coins 6 Credits	1 Coin 1 Credit 2 Coins 2 Credits 3 Coins 3 Credits 4 Coins 4 Credits 5 Coins 6 Credits
5 Coins 6 Credits-B	1 Coin 1 Credit 2 Coins 2 Credits 3 Coins 3 Credits 4 Coins 4 Credits 5 Coins 6 Credits	1 Coin 6 Credits
5 Coins 12 Credits	1 Coin 2 Credits 2 Coins 4 Credits 3 Coins 7 Credits 4 Coins 9 Credits 5 Coins 11 Credits	1 Coin 6 Credits 2 Coins 12 Credits
free play	free play	free play

21. ROM LOCATIONS

S Y 3 2 ROM B D



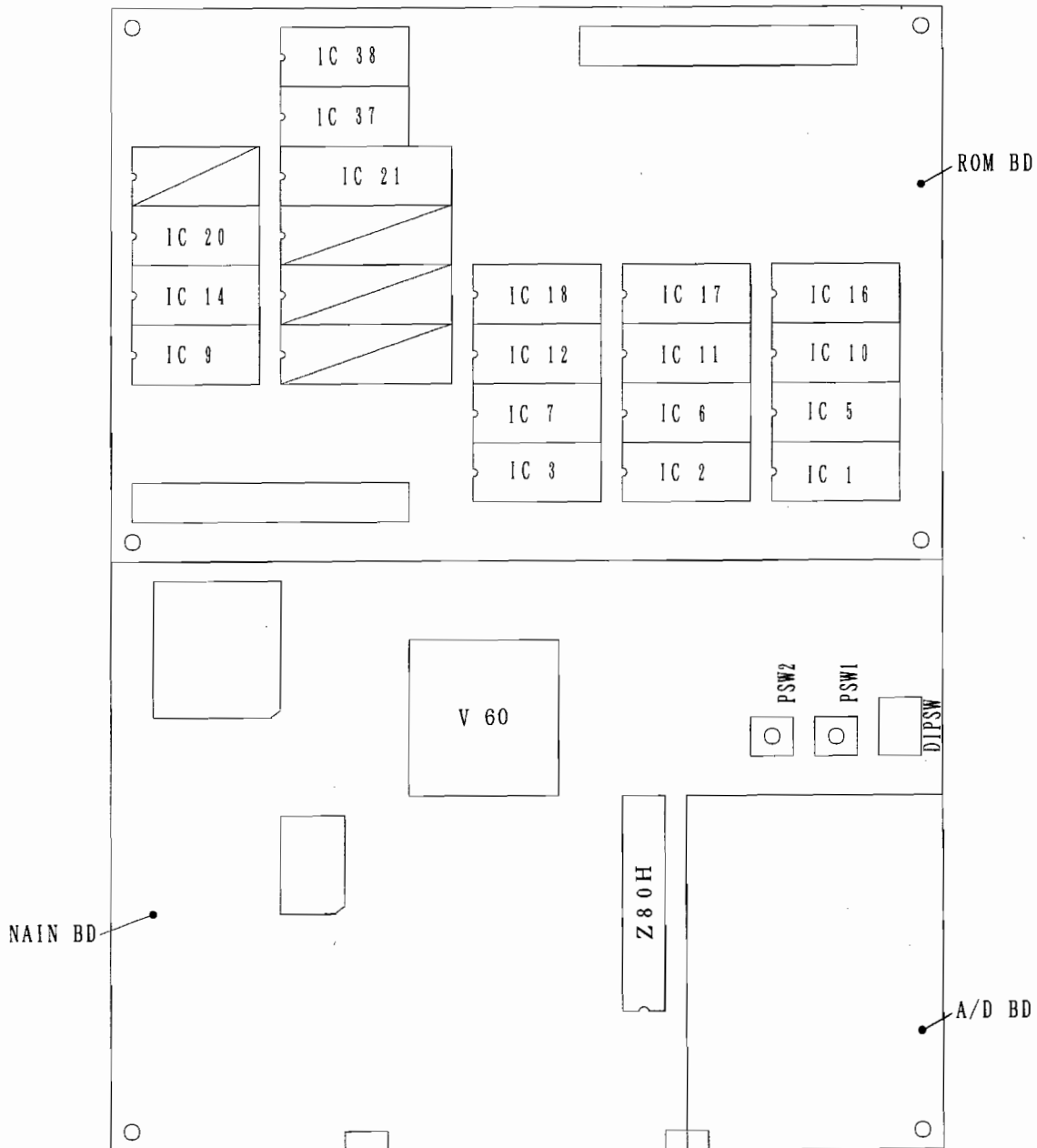
RAD MOBILE				
IC LOCATION		ROM NUMBER		MAIN WORK
1	IC 1	MPR-13511	8M	OBJECT
2	IC 5	MPR-13512	8M	
3	IC 10	MPR-13513	8M	
4	IC 16	MPR-13514	8M	
5	IC 2	MPR-13515	8M	
6	IC 6	MPR-13516	8M	
7	IC 11	MPR-13517	8M	
8	IC 17	MPR-13518	8M	
9	IC 3	MPR-13519	2M	SCROLL
10	IC 7	MPR-13520	2M	
11	IC 12	MPR-13521	2M	
12	IC 18	MPR-13522	2M	
13	IC 9	EPR-13527	1M	SOUND
14	IC 14	EPR-13523	4M	
15	IC 20	EPR-13699	4M	
16	IC 37	EPR-13525	4M	MAIN PROGRAM
17	IC 38	EPR-13526	4M	
18	IC 21	EPR-13690	EPR-13693	
ROM BOARD PART NO.		USA ROM BD 834-7739-01	EXPORT ROM BD 834-7739-02	

22. IC BOARD ORGANIZE

833-7738- ~ GAME BD RAD MOBILE~

	U S A	E X P O R T
GAME BD No.	833-7738-01	833-7738-02
MAIN BD No.	837-7428	837-7428
ROM BD No.	834-7739-01	834-7739-02
A/D BD No.	837-7536	

GAME BD RAD MOBILE $\left\{ \begin{array}{l} \text{MAIN BD SYSTEM 32 COM} \\ \text{ROM BD RAD MOBILE ~} \\ \text{A/D BD SYSTEM 18, 32} \end{array} \right.$



23. VOLTAGE CHANGES TO LOCAL REQUIREMENTS

Voltage changes to 90V, 100V, 110V, 120V, 200V, 220V, 230V, and 240V can be made in accordance with the following procedure:

If the voltage setting to local requirements is incorrectly performed, this may cause machine malfunctioning or breakage to occur, therefore, pay sufficient attention when setting the voltage.

- 1) TRANSFORMER's (560 - 5148) primary - voltage change:
In accordance with the voltage table printed on the side of the TRANSFORMER, pull out the primary side CONNECTOR's (white, 9P socket) purple lead wire's pin and insert it into the applicable position.

- 2) SW REGULATOR's (400 - 5055) primary voltage change
Where necessary, reinsert the TAP which is seen from the oval opening on the side of the SW REGULATOR (400 - 5055) into the applicable position in accordance with the sticker applied near the opening.

- 3) DC MOTOR DRIVER's (400 - 5117Y) primary - voltage change
Reinsert the TAP which is seen from the oval opening on the top of DC MOTOR DRIVER (400 - 5117Y), into the applicable position in accordance with the sticker applied near the opening.

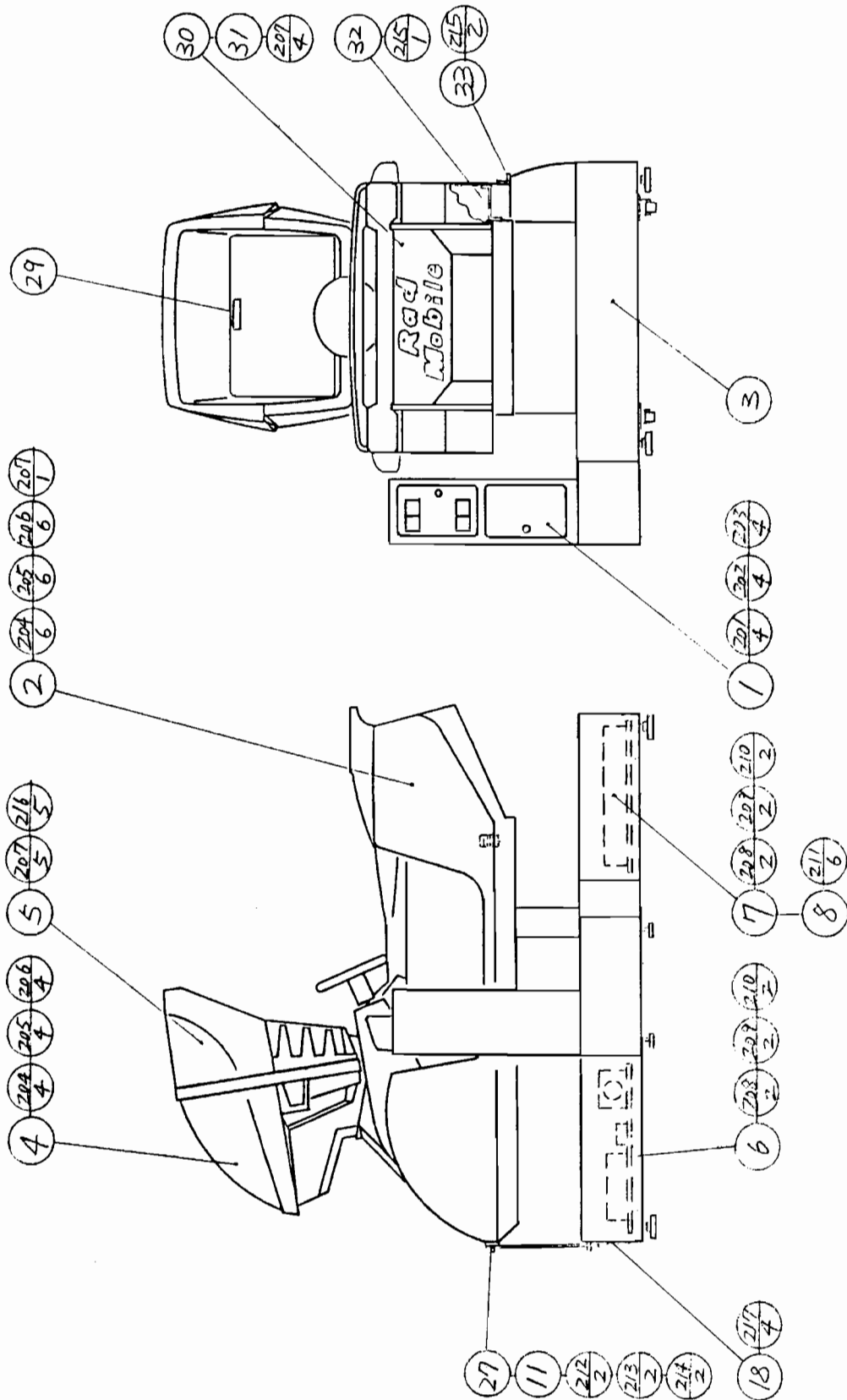
- 4) MOTOR CONTROL BOARD's (DRIVE BD : 837 - 7753) DIP SW change :
Set the MOTOR CONTROL BOARD's central DIP SW in accordance with the following Table :

		1	2	3	4
Local Voltage Requirements	90V, 100V, 200V	OFF	OFF	OFF	OFF
	110V, 220V	ON	ON	OFF	OFF
	120V, 230V, 240V	ON	OFF	OFF	OFF

24. PARTS LIST

① TOP ASSY RAD MOBILE DX (RDM-0000)

(D-1/5)



① TOP ASSY RAD MOBILE DX (RDM-0000)

(D-2/5)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	RDM-0500	ASSY TOWER & STEP	
2	RDM-1000	ASSY COCKPIT	
3	RDM-3000	ASSY BASE	
4	RDM-1100	ASSY MONITOR	
5	RDM-1012	ASSY MONITOR COVER FRONT	
6	RDM-4000	ASSY PWR SPLY	
7	RDM-4100	ASSY DRIVE SPLY	
8	833-7738	GAME BD RAD MOBILE	
9	SGM-3901	POLYETHYLENE COVER 1100×1750×1700	
10	421-7010-01	STICKER CAUTION ENG	
11	RDM-0001	SHIPPING PLATE	
13	421-6594	STICKER SERIAL NO. INFO	
14	421-6673	STICKER SERVICE INSTR	
15	421-6671	STICKER DANGER HIGH VOLTAGE	
16	421-5564	STICKER INDOOR	
18	117-5039	PLATE ELEC. SPEC	
20	421-6241	STICKER DANGER ENG	
21	421-5800-142	ORIGINAL SEAL RAD MOBILE	
22	220-5254	KEY MASTER FOR 220-5253	
23	SGB-1035X	KEY BAG	
24	421-7689	STICKER CAUTION BAG	
25	421-7020	STICKER CAUTION FORK	
26	421-7692	STICKER CAUTION VOLTAGE	
27	RDM-0002	BUMPER PLATE	

① TOP ASSY RAD MOBILE DX (RDM-0000)

(D-3/5)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
28	422-0364-01	PLAY INSTR STICKER RAD MOBILE DX ENG	
29	422-0373-01	SUBPLAY INSTR STICKER RDM ENG (NEW)	
30	RDM-1302	DESIGN PLATE BILLBOARD	
31	RDM-1304	LOWER HOLDER	
32	RDM-0004	STAY	
33	RDM-0005	SIDE STOPPER	
35	RDM-0006	FRAME COVER R	
36	RDM-0007	FRAME COVER L	
37	421-7868-01	STICKER DANGER ENG	
38	421-7869-01	STICKER CONTINUE ENG	
39	421-7873-01	INSTALLATION INSTR SH RDM ENG	
40	429-0058-01	DISPLAY PLATE RAD MOBILE DX ENG	
201	050-0010	HEX NUT M10	
202	060-0010	FLT WSHR M10	
203	061-0010	SPR WSHR M10	
204	030-0820-B	HEX BOLT BLK M8×20	
205	069-0048	FLT WSHR BLK 8.5-22×1.6	
206	069-0026	SPR WSHR BLK M8	
207	008-0416	TMP PRF SCR TH M4×16	
208	053-0005	WING NUT M5	
209	061-0005	SPR WSHR M5	
210	069-0001	FLT WSHR 5.5-20×1.6	
211	001-0310	M SCR FH M3×10	
212	030-0820	HEX BOLT M8×20	
213	060-0008	FLT WSHR M8	

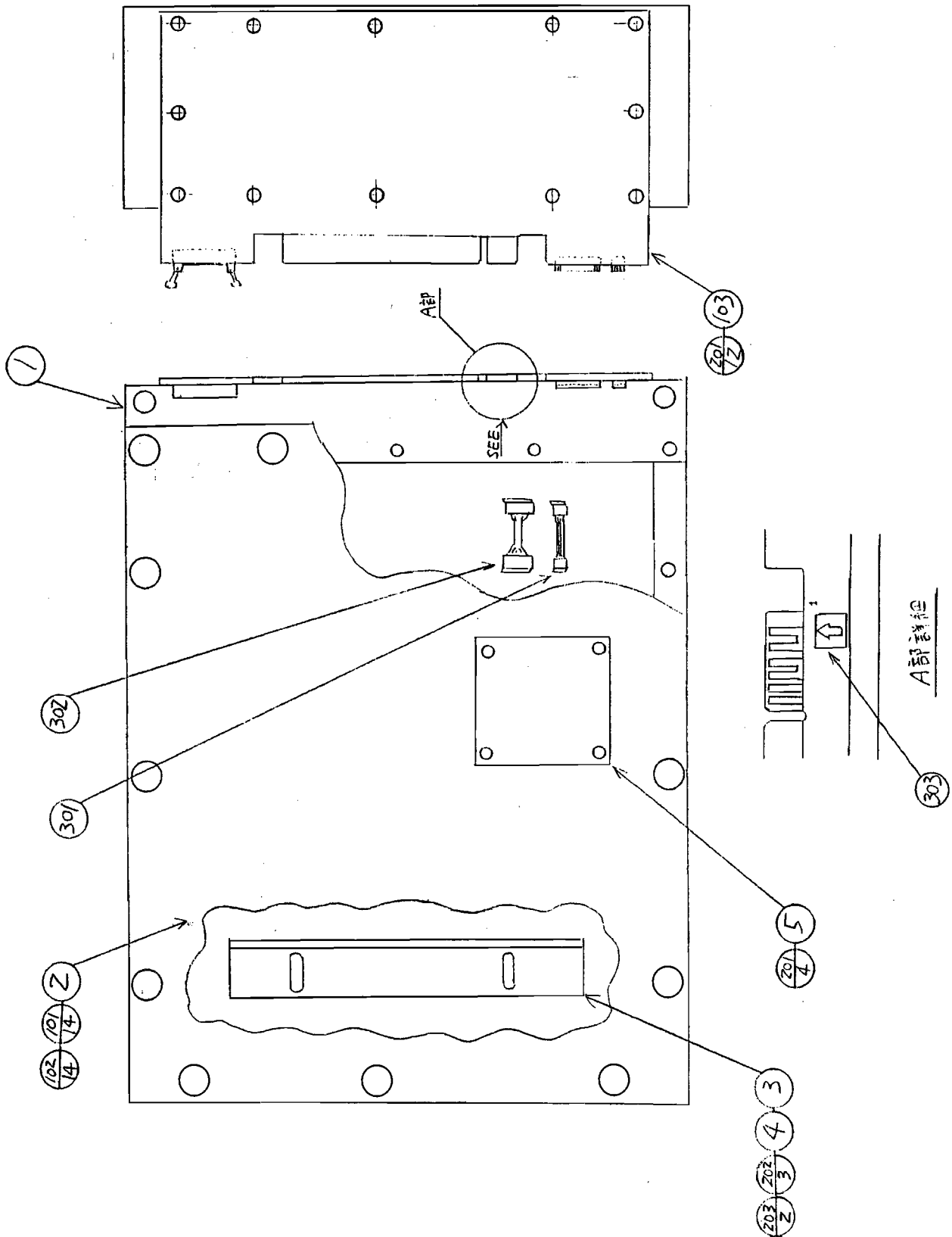
① TOP ASSY RAD MOBILE DX (RDM-0000)

(D-4/5)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
214	061-0008	SPR WSHR M8	
215	008-0408	TMP PRF SCR TH M4×8	
216	069-0055	FLT WSHR SPECIAL BLK 4.4-16×1.6	
217	047-0001	RVT OPEN TYPE 3.2×4.4	
218	039-0098	HEX BLT BLK W/S M8×35	
219	009-0825	TMP PRF SCR BH M8×25	
301	280-5008	CORD CLAMP φ15	
302	280-5009	CORD CLAMP φ21	
303	280-5126	CORD CLAMP φ25	
401	601-6604-70	CARTON BOX 70	
402	420-5976-01	OWNERS MANUAL RAD MOBILE DX	
403	SGM-2675	POLYETHYLEN BAG 240×370	
404	421-7835-02	ADJUST INSTR SH RAD MOBILE DX ENG	
405	420-5881	DSPL MANUAL 26" 200-5112-24 ENG	
	420-5929	DSPL MANUAL 26" 200-5180 ENG	
406	1039	SCHEMATIC DIAGRAM SEGA RAD MOBILE DX	
407	509-5218	PUSH BTN SW 1T YELLOW W/LAMP	
408	220-5130	VOL CONT B-5KOHM	
409	RDM-2006	EXT SPRING	
410	540-0006-01	WRENCH FOR TAMP PRF SCR DUAL TYPE M4	
	540-0018	DRIVER FOR TAMP PRF SCR M4	
411	540-0009-01	WRENCH FOR TAMP PRF SCR DUAL TYPE M8	
412	090-0044	GREASE NET 300g	
413	509-5372	PUSH BUTTON SWITCH 1T GREEN W/LAMP	

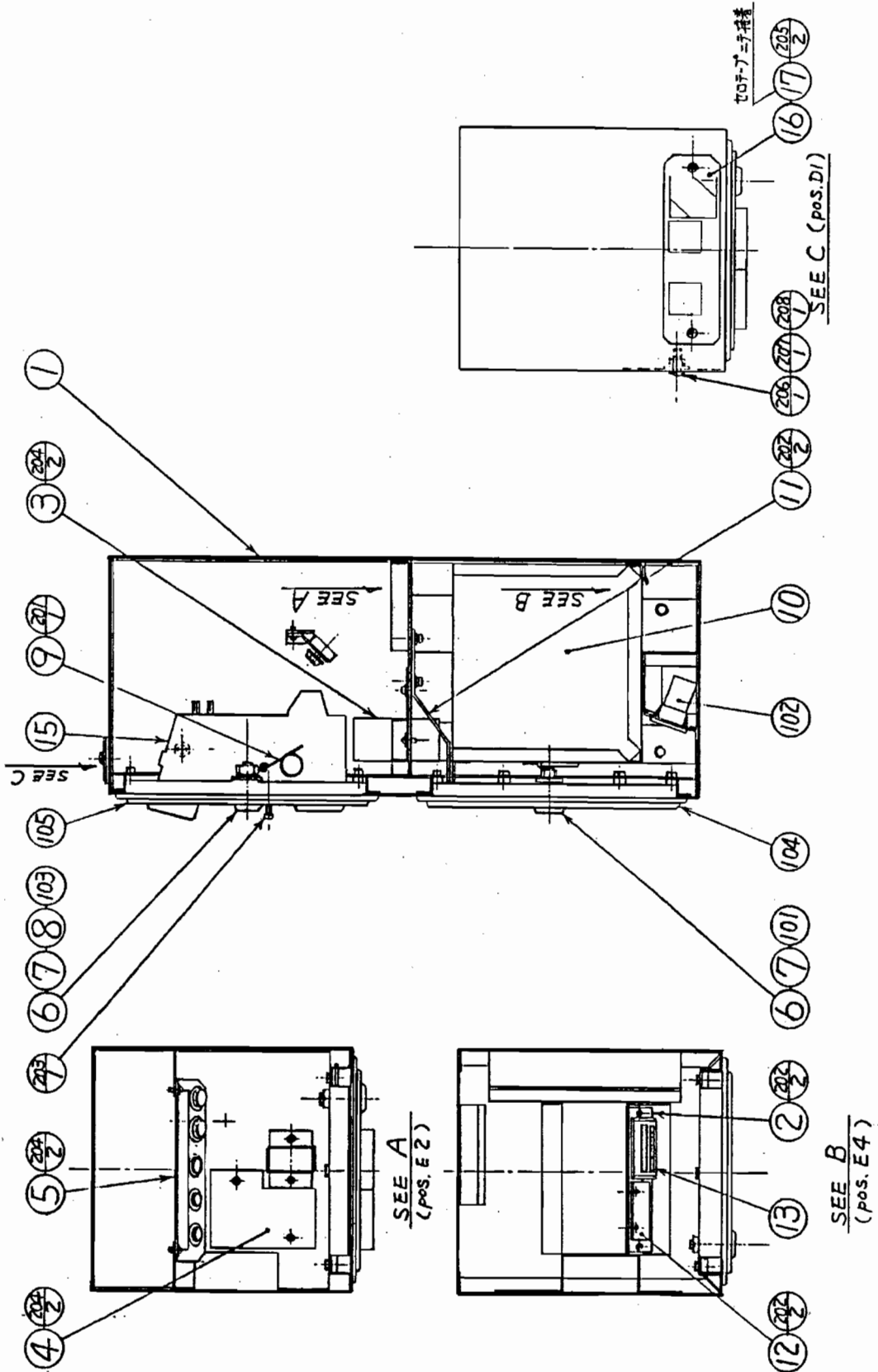
② ASSY SHIELD CASE (RDM-0100)

(D-1/2)




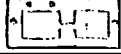


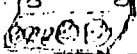









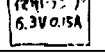
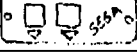


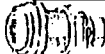


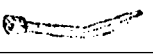
③ ASSY COIN CHUTE TOWER (RDM-0501)

(D-1/3)



③ ASSY COIN CHUTE TOWER (RDM-0501)

(D-2/3)

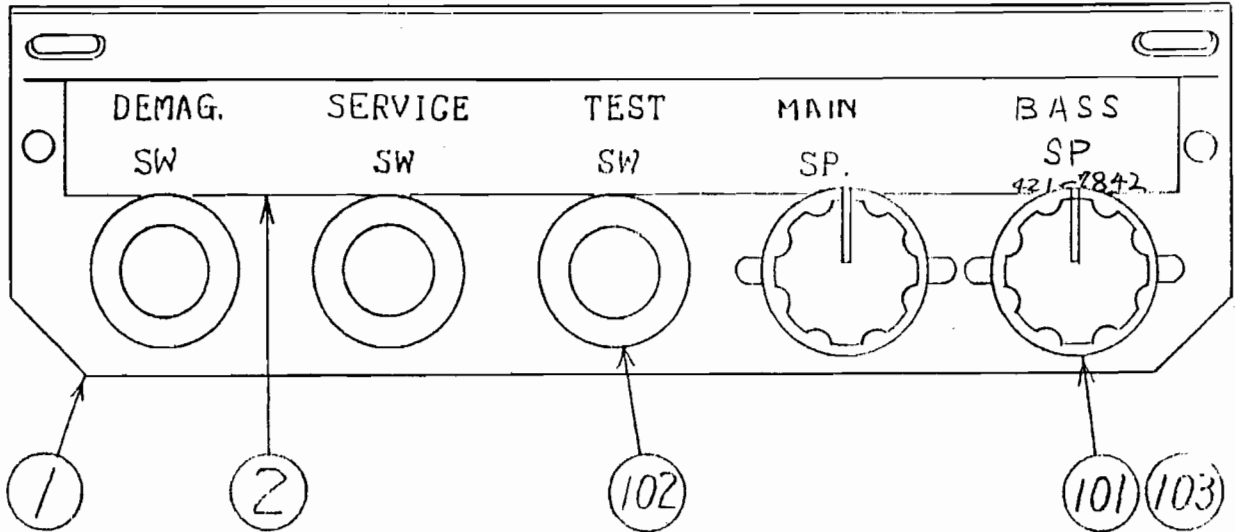
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	RDM-0502	COIN CHUTE TOWER	
2	GLC-0502	COIN METER PLATE	
3	GLC-0503	COIN CHUTE LOWER	
4	GLC-0504	SQUARE HOLES COVER	
5	RDM-0504	SW UNIT	
6	DP-1167	TNG LKG	
7	HN-1050	SPACER RING	
8	105-5068	PLATE TONGUE STOPPER	
9	109-0045	KEY HOLDER	
10	KR-1607X	CASH BOX	
11	KR-1608	LOCK BRACKET	
12	SLC-0119	COIN METER LID	
13	421-6591-01	STICKER COIN METER	
14	421-6682	STICKER SERVICE INSTR	
15	421-7501-02	STICKER 6.3V 0.15A	
16	KR-1403	DENOMINATION PLATE	
17	MX-1103-05	DENOMINATION SHEET 1 GAME, 200円	
	MX-1103-04	DENOMINATION SHEET 1 GAME, 100円	
101	220-5046-91	MAGNETIC LOCK W/KEY	
102	220-5064	MAG CNTR 6 DIG DC 5V W/L & D10	
103	220-5253	MAGNETIC LOCK MASTER W/O KEY	
104	220-5220	CASH BOX DOOR	
105	220-5282-01	ASSY COIN CHUTE DOOR W/HOLE ¥100	
106	601-0460	TIE BELT 85mm	
107	280-0425	CORD CLAMP 10φ	


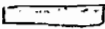



③ ASSY COIN CHUTE TOWER (RDM-0501)

(D-3/3)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
108	280-5008	CORD CLAMP ϕ 15	
109	280-5009	CORD CLAMP ϕ 21	
201	000-0306-F	M SCR PH W/F M3 \times 6	
202	000-0410-FS	M SCR PH W/FS M4 \times 10	
203	000-0430	M SCR PH M4 \times 30	
204	010-0408-F	S-TITE SCR PH W/F M4 \times 8	
205	008-0410	TMP PRF SCR TH M4 \times 10	
206	039-0095	CRG BLT BLK M6 \times 15	
207	051-0006	FLG NUT M6	
208	060-0010	FLT WSHR M10	

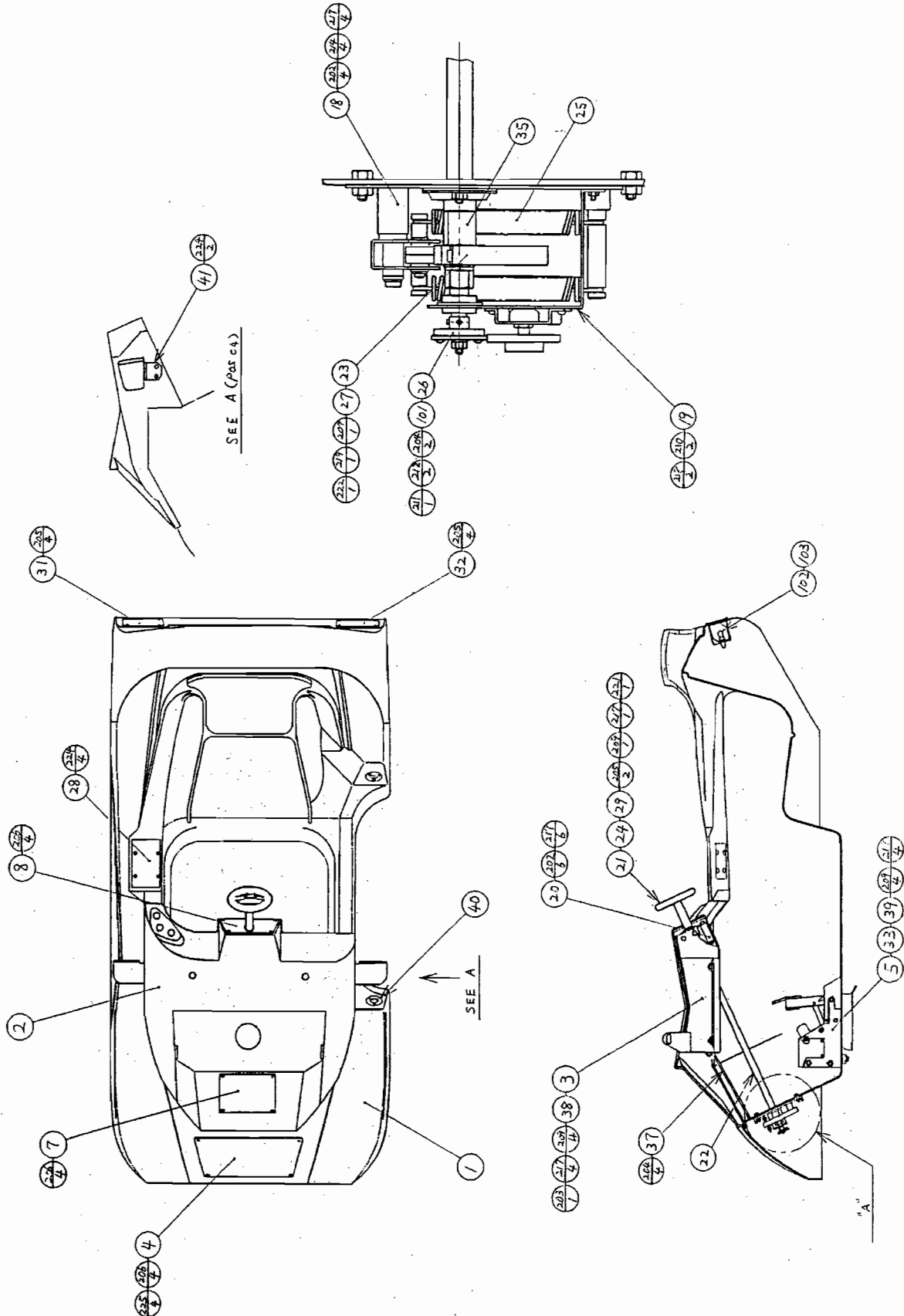
④ SW UNIT (RDM-0504)



ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	KR-1405	SW BRACKET	
2	421-7842	STICKER SW UNIT	
101	220-5179	VOL CONT B-5K OHM	
102	509-5028	SW PB 1M	
103	601-0042	KNOB 22mm	












⑤ ASSY COCKPIT (RDM-1000)

(D-1/4)



⑤ ASSY COCKPIT (RDM-1000)

(D-2/4)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	RDM-1001	BODY COWL	
2	RDM-1002	ASSY DASHBOARD	
3	RDM-1003	ASSY MONITOR BASE	
4	RDM-1007	BONNET PLATE	
5	RDM-1200	ASSY ACCEL & BRAKE	
7	RDM-1009	DASHBOARD LID	
8	RDM-1016	DASHBOARD PLATE	
18	RDM-2000	ASSY HANDLE MECHA	
19	RDM-2020	ASSY VR	
20	RDM-2030	ASSY HANDLE BASE	
21	RDM-2001	STEERING WHEEL $\phi 270$	
22	RDM-2002	STEERING SHAFT	
23	RDM-2004	CAM	
24	RDM-2005	STEERING SHAFT COLLAR	
25	RDM-2006	EXT SPRING	
26	RDM-2007	ADJUST RING	
27	HSD-2019	KEY 4x4x12	
28	RDM-1017	SHIFT LEVER BANDAGE	
29	RDM-2012	STEERING EMBLEM	
31	RDM-1030	TAIL LAMP PLATE R	
32	RDM-1031	TAIL LAMP PLATE L	
33	RDM-1019	HOLDER PLATE	
35	RDM-2013	CAM SPACER	
37	RDM-1034	WIRE TRAY	
38	RDM-1035	WOODEN BASE HOLDER	
39	RDM-1036	WIRE RAIL	

⑤ ASSY COCKPIT (RDM-1000)

(D-3/4)

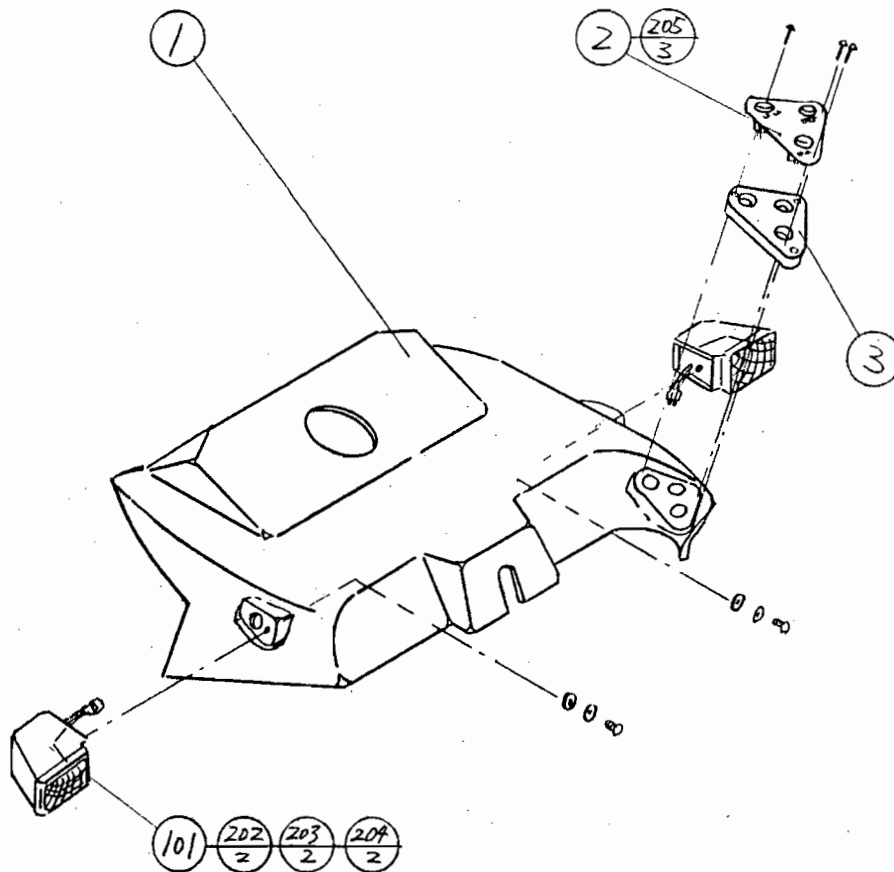
ITEM NO.	PART NO.	DESCRIPTION	NOTE
40	RDM-1040	ASSY COCKPIT SENSOR	
41	RDM-1045	SPEAKER HOLDER	
101	601-6109	GEAR 60	
102	390-5157	LAMP 110V 10W	
103	214-0111	LAMP SOKET W/WIRE	
202	030-0825	HEX BLT	
204	000-0408-FS	M SCR PH W/FS M4×8	
205	008-0416	TMP PRF SCR TH M4×16	
206	008-0410	TMP PRF SCR TH M4×10	
207	059-0016	HEX NUT M14	
209	050-0008	HEX NUT M8	
210	050-0004	HEX NUT M4	
211	054-0006	U-NUT M6	
212	028-0019	SET SCR HEX SKT CP UNBR M4×8	
214	060-0008	FLT WSHR M8	
215	060-0006	FLT WSHR M6	
217	061-0008	SPR WSHR M8	
218	061-0004	SPR WSHR M4	
219	069-0019	SPR WSHR M14	
221	069-0048	FLT WSHR BLK 8.5-22×1.6	
222	069-0045	FLT WSHR M14	
224	008-0516	TMP PRF SCR TH M5×16	
301	SGB-4084-21	WIRE HARN SP EXT 2	

⑤ ASSY COCKPIT (RDM-1000)

(D-4/4)

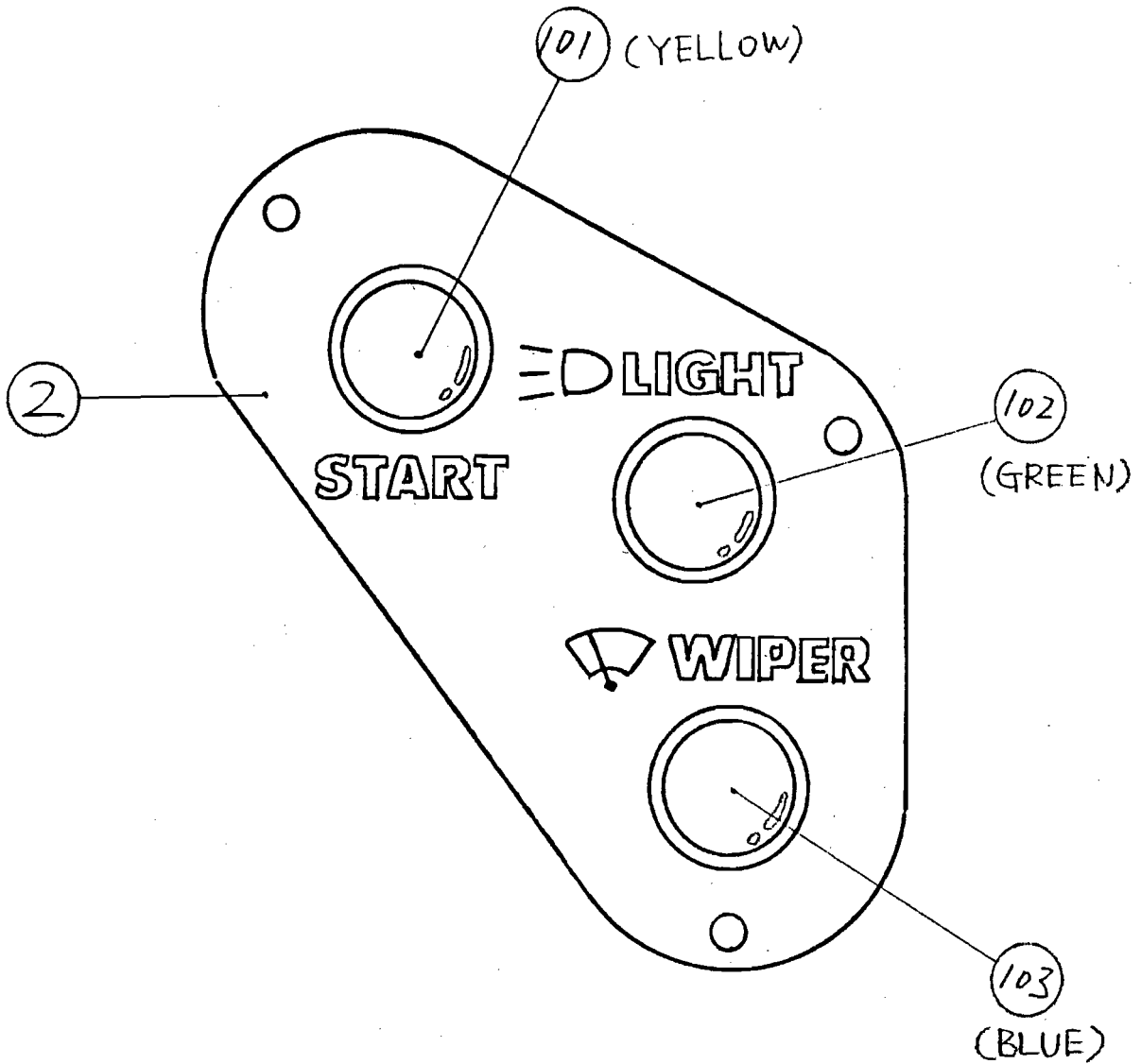
ITEM NO.	PART NO.	DESCRIPTION	NOTE
	211-5282-06GR	CONN PLUG 9090 06P-GR	
	211-5283-02BK	CONN CAP 9090 02P-BK	
	211-5283-02BL	CONN CAP 9090 02P-BL	
	211-5284	CONN PIN 9090 AWG 18-24	
	211-5287	CONN SOCKET 9090 AWG 18-24	
	310-5028- 8.3	VINYL TUBE ϕ 8.3	
302	SGB-4084-29	WIRE HARN CONTROL EXT	
	211-5282-15RE	CONN PLUG 9090 15P-RE	
	211-5283-03OR	CONN CAP 9090 03P-OR	
	211-5283-04WH	CONN CAP 9090 04P-WH	
	211-5283-04YE	CONN CAP 9090 04P-YE	
	211-5283-02WH	CONN CAP 9090 02P-WH	
	211-5283-03WH	CONN CAP 9090 03P-WH	
	211-5284	CONN PIN 9090 AWG 18-24	
	211-5287	CONN SOCKET 9090 AWG 18-24	
	211-5286	CONN PIN 9090 AWG 14-20 L	
	310-5028-11.1	VINYL TUBE ϕ 11.1	
	310-5028-7.3	VINYL TUBE ϕ 7.3	
303	SGB-4084-32	WIRE HARN BRAKE LAMP	
	211-5274-02WH	CONN PLUG AMP MINI 02P-WH	
	211-5278	CONN PIN AMP MINI AWG 22-18	
	209-0023	CONN CLOSED END	


⑥ ASSY DASH BOARD (RDM-1002)



ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	RDM-1008	DASH BORD	
2	RDM-1010	ASSY START BUTTON	
3	RDM-1039	SW SPACER	
101	130-5060	SP EAKER BOX 6 OHM	
202	029-0362	M SCR PH M6×14	
203	060-0006	FLT WSHR M6	
204	061-0006	SPR WSHR M6	
205	029-0236	TMP PRF SCR TH CROME M4×25	
	008-0425	TMP PRF SCR TH M4×25	

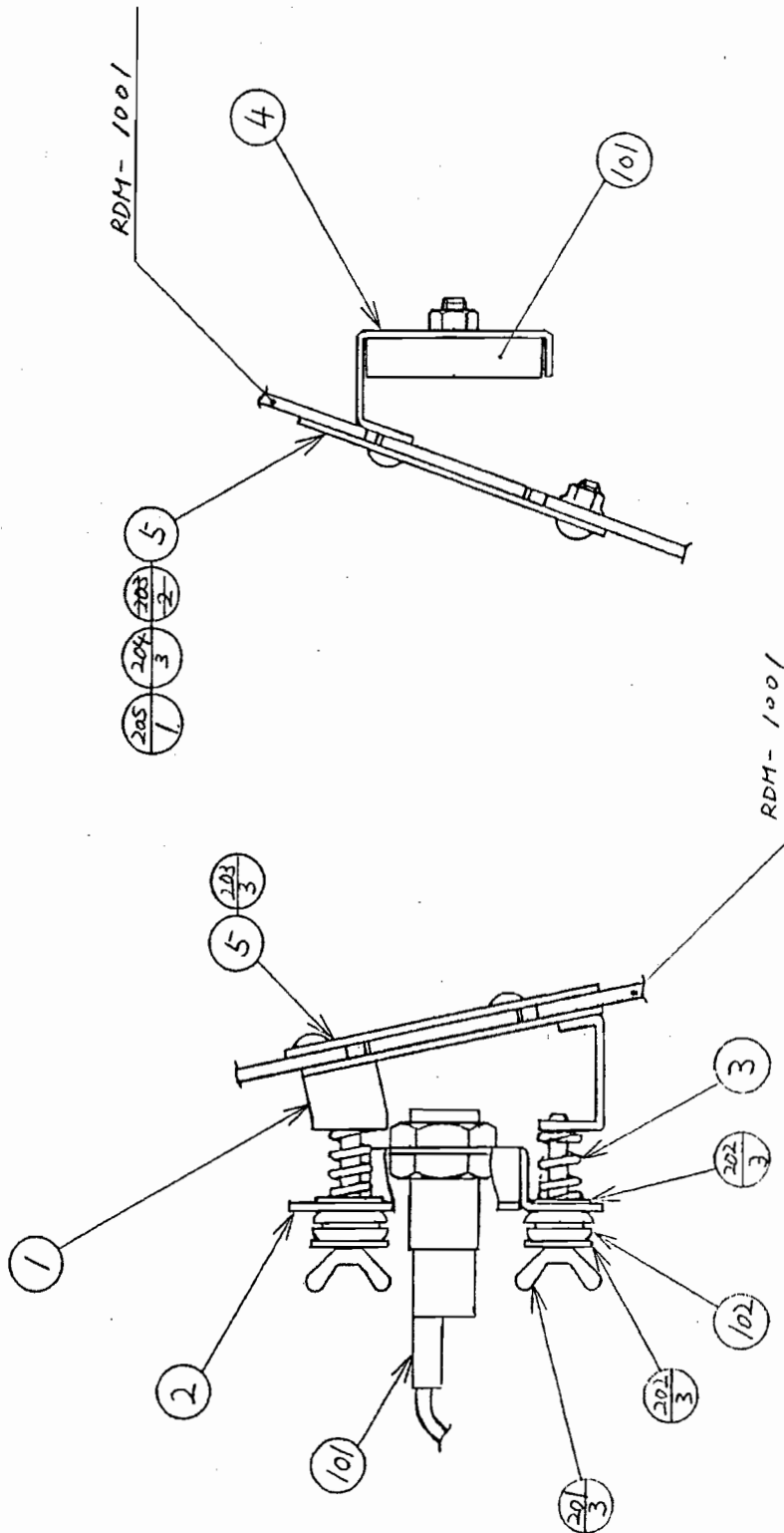
⑦ ASSY START BUTTON (RDM-1010)



ITEM NO.	PART NO.	DESCRIPTION	NOTE
2	RDM-1037	SW PLATE	
101	509-5218	PUSH BTN SWITCH IT YELLOW W/LAMP	
102	509-5372	PUSH BUTTON SWITCH IT GREEN W/LAMP	
103	509-5373	PUSH BUTTON SWITCH IT BLUE W/LAMP	

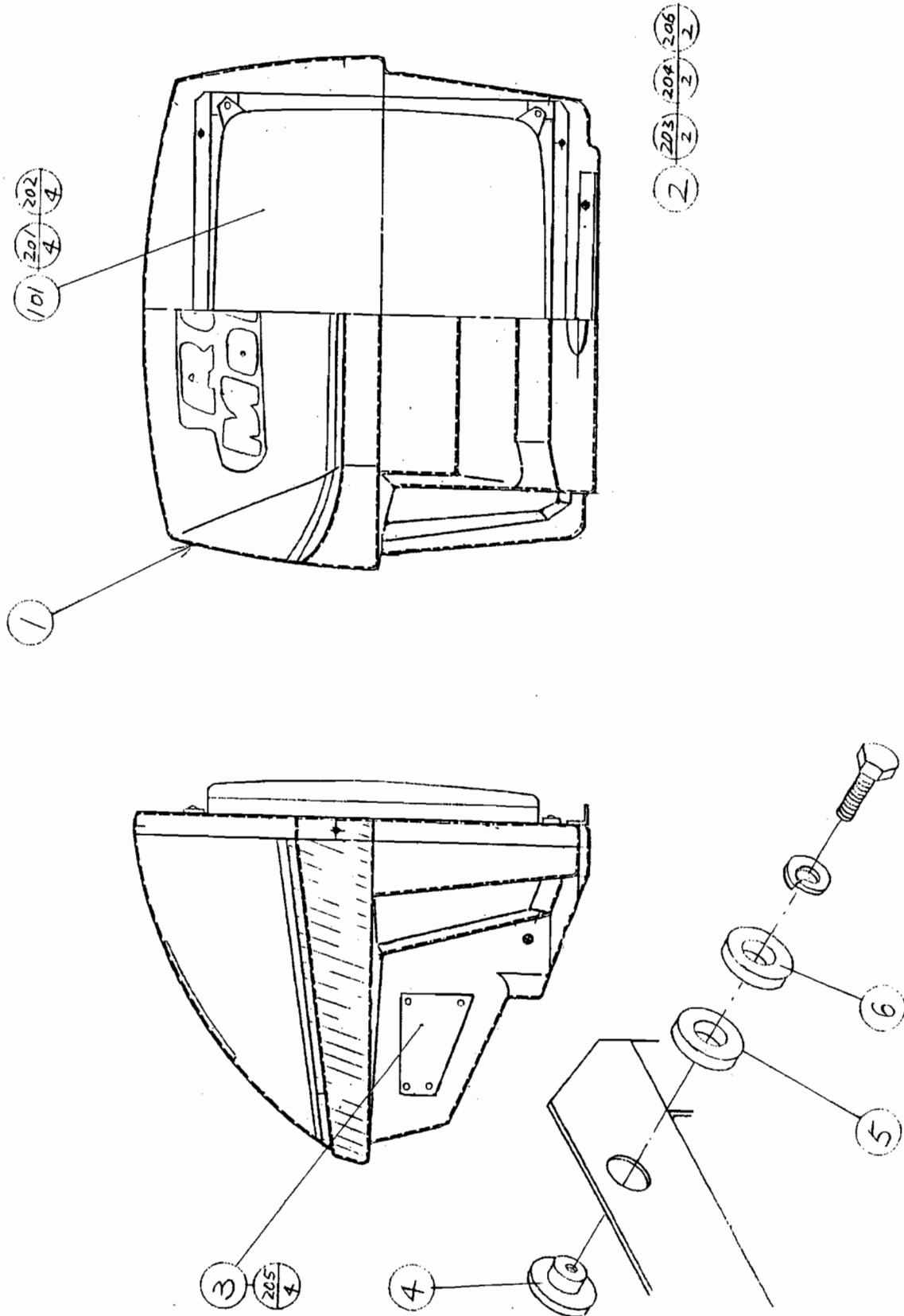
⑧ ASSY COCKPIT SENSOR (RDM-1040)

(D-1/2)



⑨ ASSY MONITOR (RDM-1100)

(D-1/2)



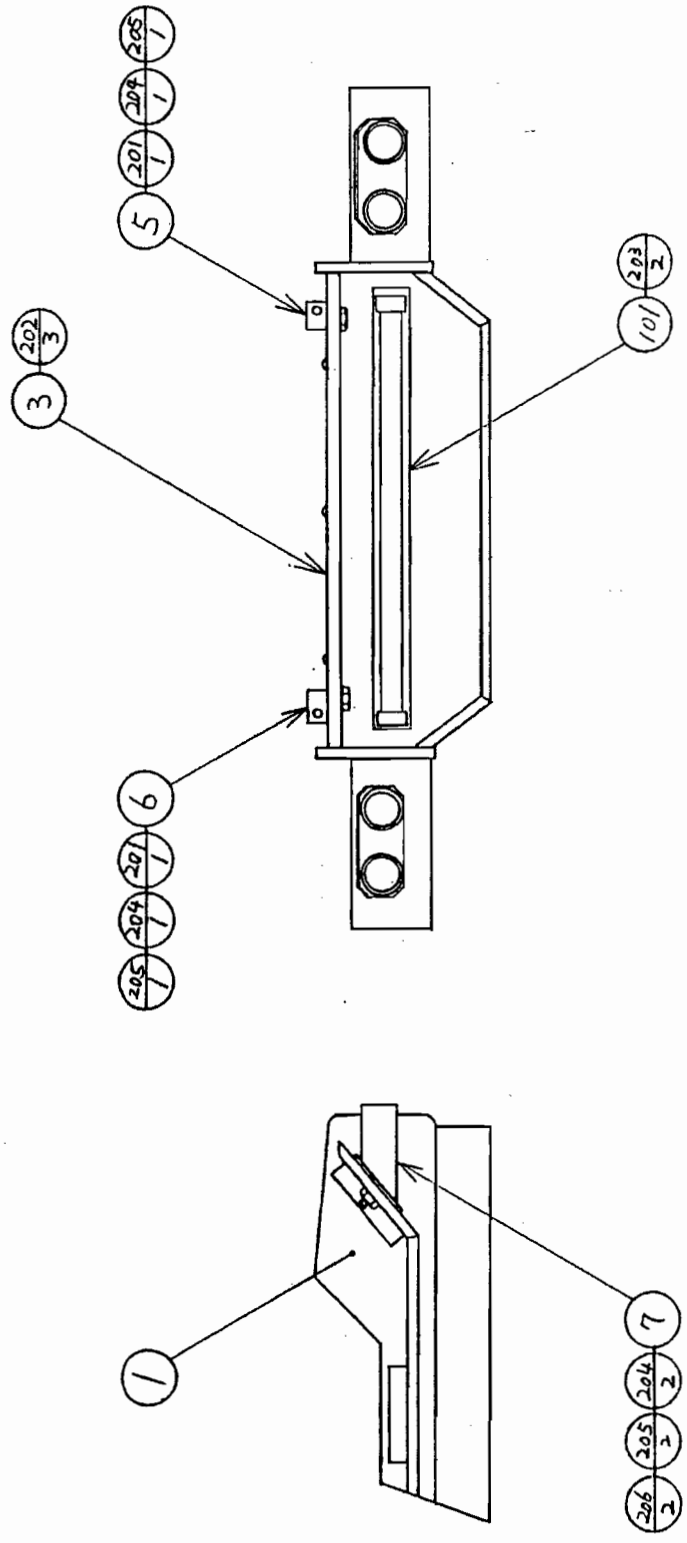
⑩ ASSY ACCEL & BRAKE (RDM-1200)

(D-2/3)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	RDM-1201	FOOT PEDAL BASE	
2	RDM-1202	ACCEL PEDAL	
3	RDM-1203	BRAKE PEDAL	
4	RDM-1204	SIDE PLATE	
5	RDM-1205X	FOOT PEDAL COVER	
6	RDM-1206	TOP COVER	
7	RDM-1207	SWING ARM	
8	RDM-1208	LINK ROD	
9	RDM-1209	SPRING STOPPER PIN	
10	RDM-1210	VR BRACKET	
11	RDM-1211	BUMPER	
12	RDM-1212	TORSION SPRING R	
13	RDM-1213	TORSION SPRING L	
14	GLC-2122	GEAR PLATE	
15	RDM-1214	PROTECTOR	
101	220-5130	VOL CONT B-5K OHM	
102	601-6005	ADJUST GEAR	
103	601-5943	GEAR 20, ϕ 15	
104	601-5472	RUBBER STOPPER	
201	030-0820-B	HEX BLT BLK M8 \times 20	
202	000-0510-FS	M SCR PH W/FS M5 \times 10	
203	000-0408-S	M SCR PH W/S M4 \times 8	
204	008-0408	TMP SCR TH M4 \times 8	
205	050-0008	HEX NUT M8	

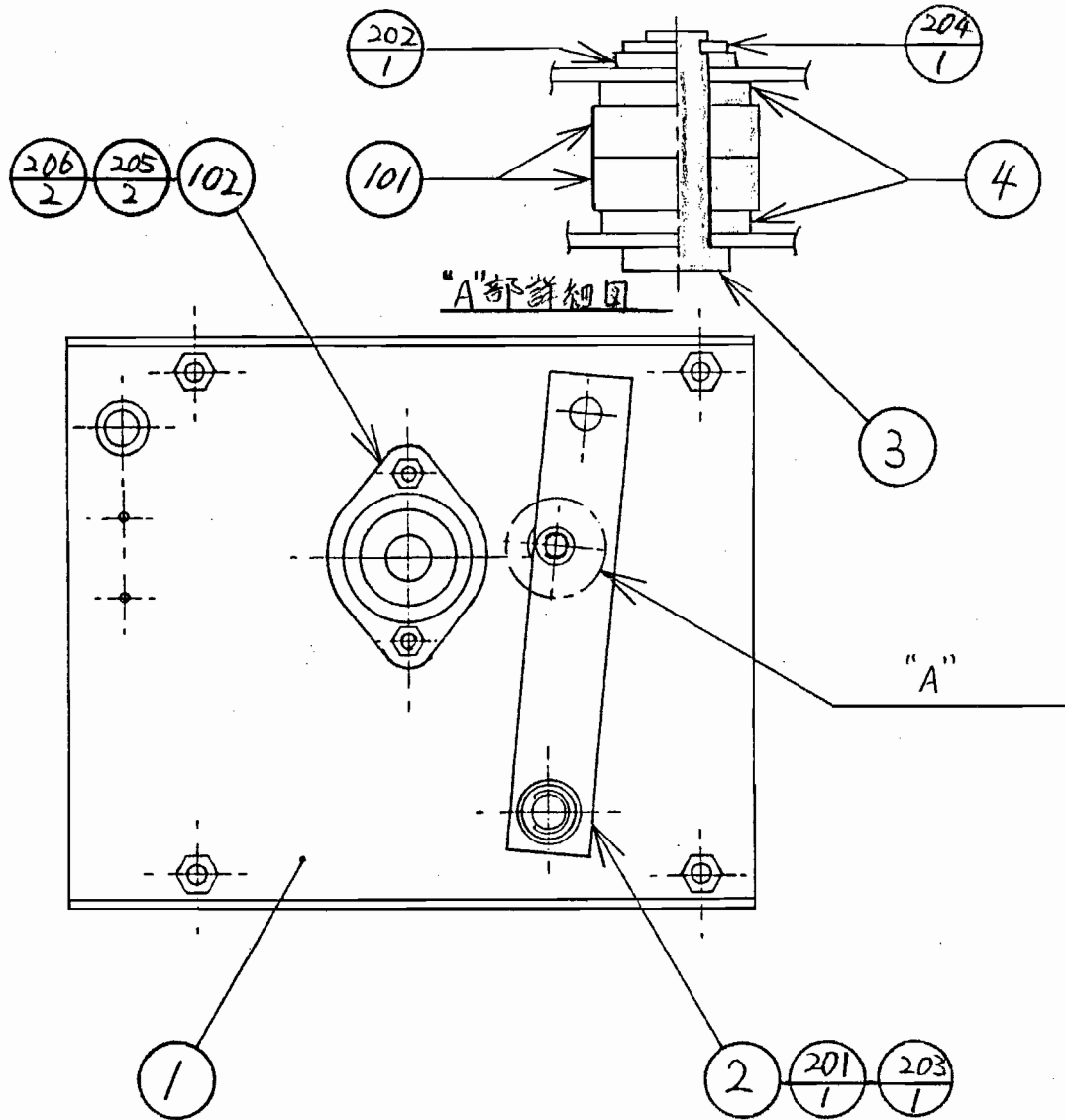
⑪ ASSY BILLBOARD (RDM-1300)

(D-1/2)

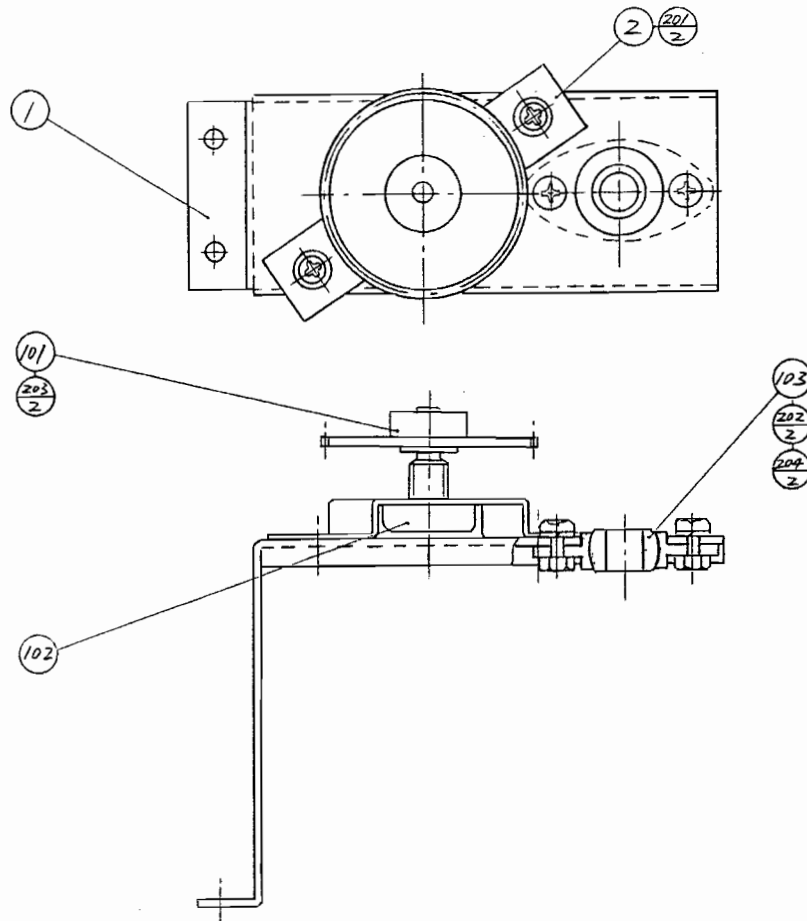




⑫ ASSY HANDLE MECHA (RDM-2000)

(D-1/2)

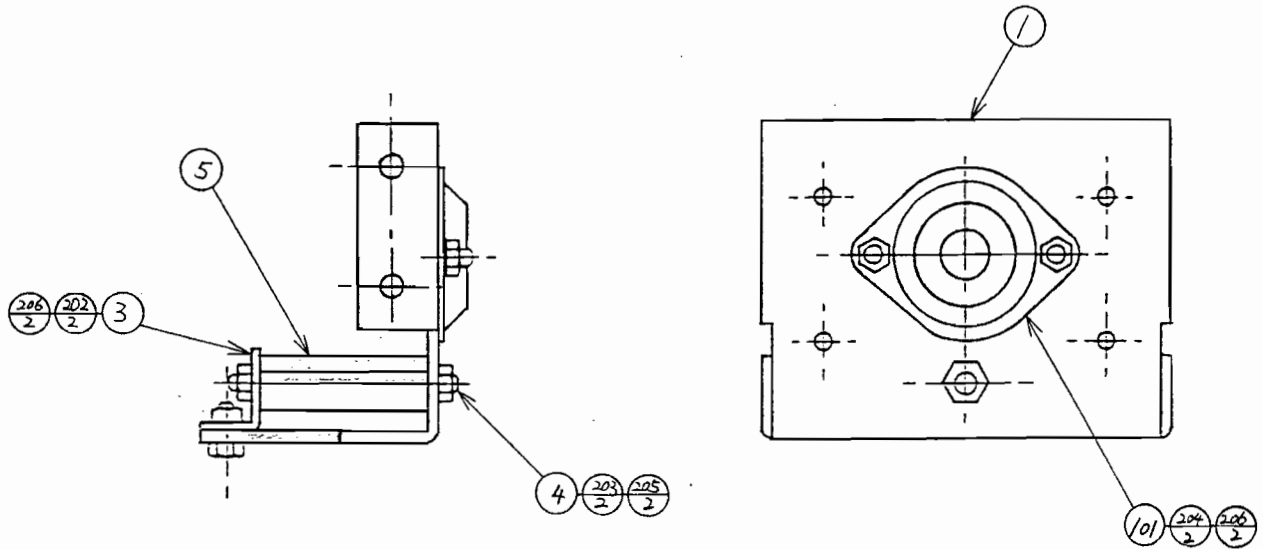




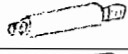
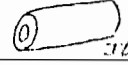
⑬ ASSY VR (RDM-2020)



ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	RDM-2021	VR BASE	
2	RDM-2022	VR BRACKET	
101	601-6296	GEAR 75 B	
102	220-5130	VR CONT B-5K OHM	
103	100-5015	BEARING $\phi 10$	
201	000-0408-FS	M SCR PH W/FS M4x8	
202	000-0514-S	M SCR PH W/S M5x14	
203	028-0007	SET SCR HEX SKT CP UNBR M4x10	
204	054-0005	U NUT M5	

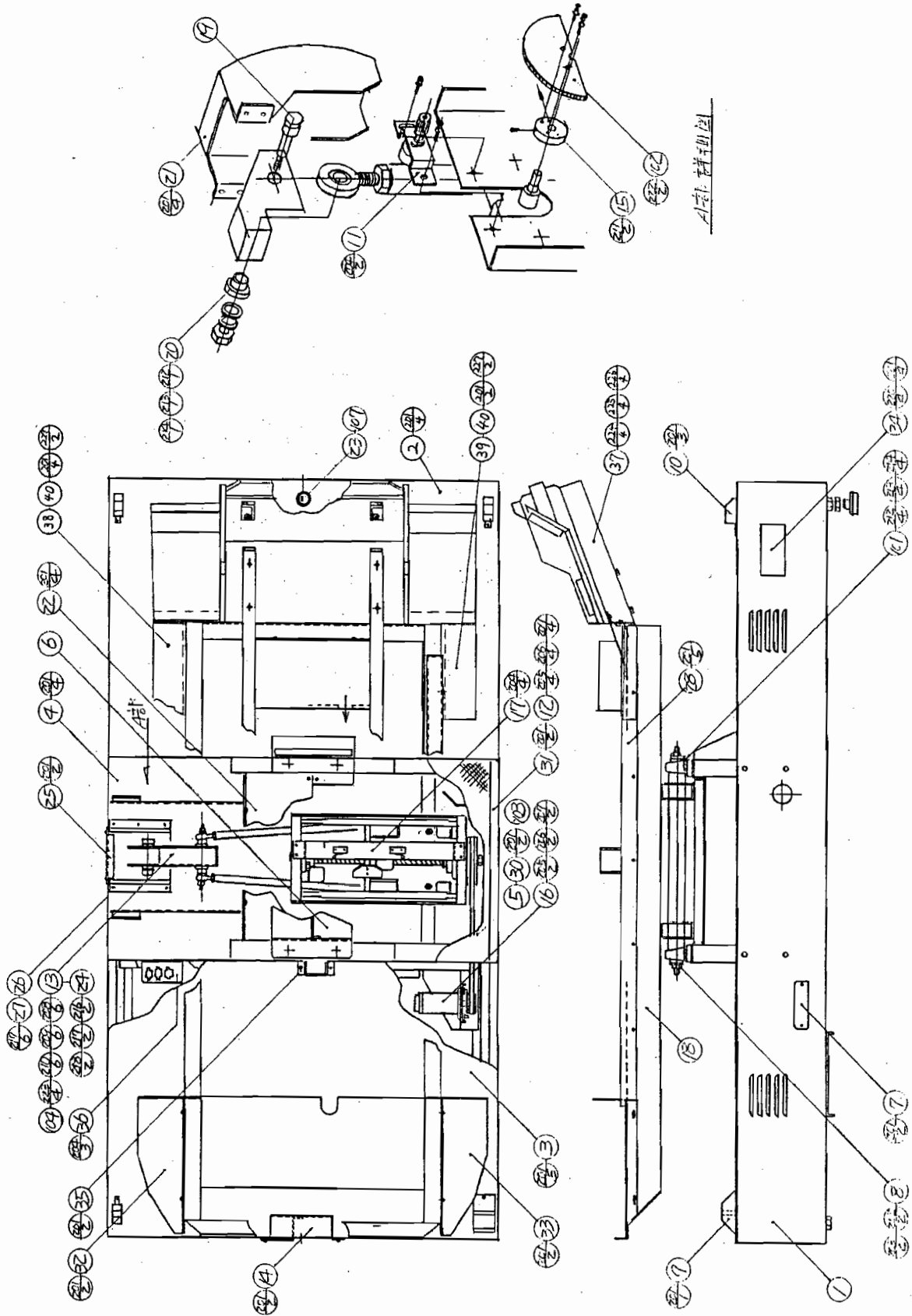
⑭ ASSY HANDLE BASE (RDM-2030)



ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	RDM-2031	HANDLE BASE	
3	RDM-2033	STOPPER BRACKET	
4	RDM-2034	STOPPER SHAFT	
5	RDM-2035	STOPPER RUBBER	
101	100-5096	BEARING $\phi 17$	
202	039-0005	HEX BOLT M6 \times 16	
203	050-0008	HEX NUT M8	
204	050-0006	HEX NUT M6	
205	061-0008	SPR WSHR M8	
206	061-0006	SPR WSHR M6	
207	001-0520	M SCR FH M5 \times 20	
















15 ASSY BASE (RDM-3000)

(D-1/4)









⑮ ASSY BASE (RDM-3000)

(D-2/4)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	RDM-3001X	BASE	
2	RDM-3002	BASE COVER REAR	
3	RDM-3003X	BASE COVER FRONT	
4	RDM-3004	CRANK COVER	
5	RDM-3005X	BASE COVER LEFT	
6	RDM-3006	PILLAR JOINT	
7	RDM-3007	HOLE BANDAGE	
8	RDM-3008	BEARING STOPPER	
9	RDM-3009	REFLECTOR HOLDER	
10	RDM-3010	ASSY BEAM SENSOR	
11	RDM-3020	ASSY ENCODER	
12	RDM-3100	ASSY MECHANISM	
13	RDM-3200	ASSY CRANK	
14	RDM-3300	ASSY AC UNIT	
15	RDM-3014	GUIDE RING	
16	YZ-3203	ASSY MOTOR	
17	RDM-3150	ASSY LIMIT SWITCH	
18	RDM-3015	BANK FRAME	
19	RDM-3016	SHOULDER SCREW	
20	RDM-3017	ROD END COLLAR	
21	RDM-3018	CON ROD COVER	
22	RDM-3019	BASE COVER CENTER	
23	DP-1167	TNG LKG	
24	GLC-3021	ROD END COLLAR	
25	RDM-3022	GUARD PLATE	
26	RDM-3023	RUBBER FLAP	

⑮ ASSY BASE (RDM-3000)

(D-3/4)

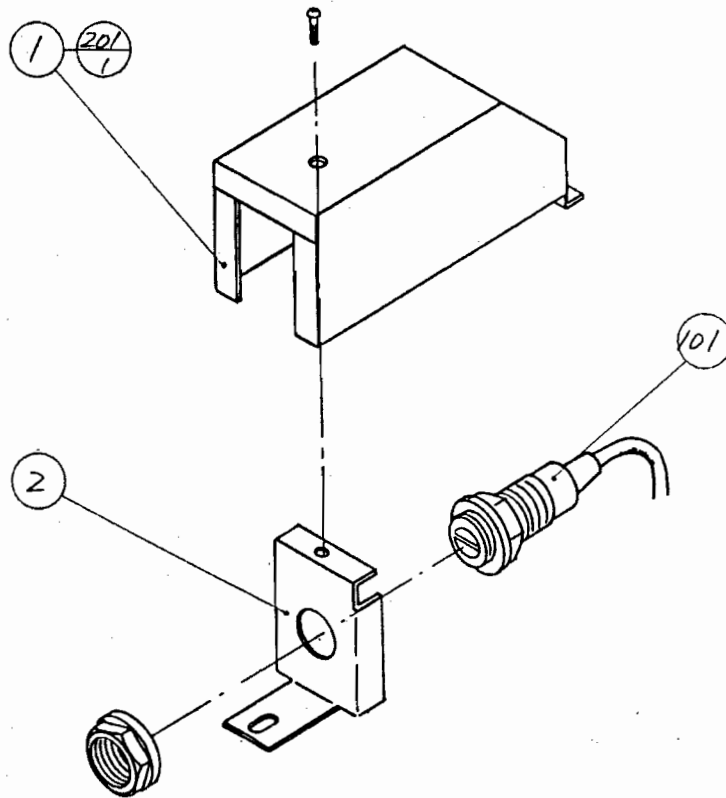
ITEM NO.	PART NO.	DESCRIPTION	NOTE
27	RDM-3024	FLAP HOLDER	
28	RDM-3025	WIRE COVER	
30	RDM-3026	MAT LEFT	
31	RDM-3027	MAT GUARD L	
32	RDM-3028	SIDE WALL R	
33	RDM-3029	SIDE WALL L	
34	RDM-3030	BANDAGE	
35	RDM-3031	WIRE GUIDE	
36	RDM-3032	CONNECTOR HOLDER	
37	RDM-1300	ASSY BILLBOARD	
38	RDM-3033	UNDER GUARD R	
39	RDM-3034	UNDER GUARD L	
40	RDM-3035	REAR GUARD	
101	100-5044	BEARING ϕ 30	
102	601-6642	GEAR 60/120	
103	350-5137	V BELT	
104	100-5031	BEARING UNIT	
105	130-5059	SUPER WOOFER BOX	
106	280-5122	CORD CLAMP	
107	220-5253	MAGNETIC LOCK MASTER W/O KEY	
201	008-0410	TMP PRF SCR M4×10	
202	059-0022	HEX NUT M16	
203	069-0060	SPR WSHR M16	
204	000-0410-FS	M SCR PH W/FS M4×10	




⑮ ASSY BASE (RDM-3000)

(D-4/4)

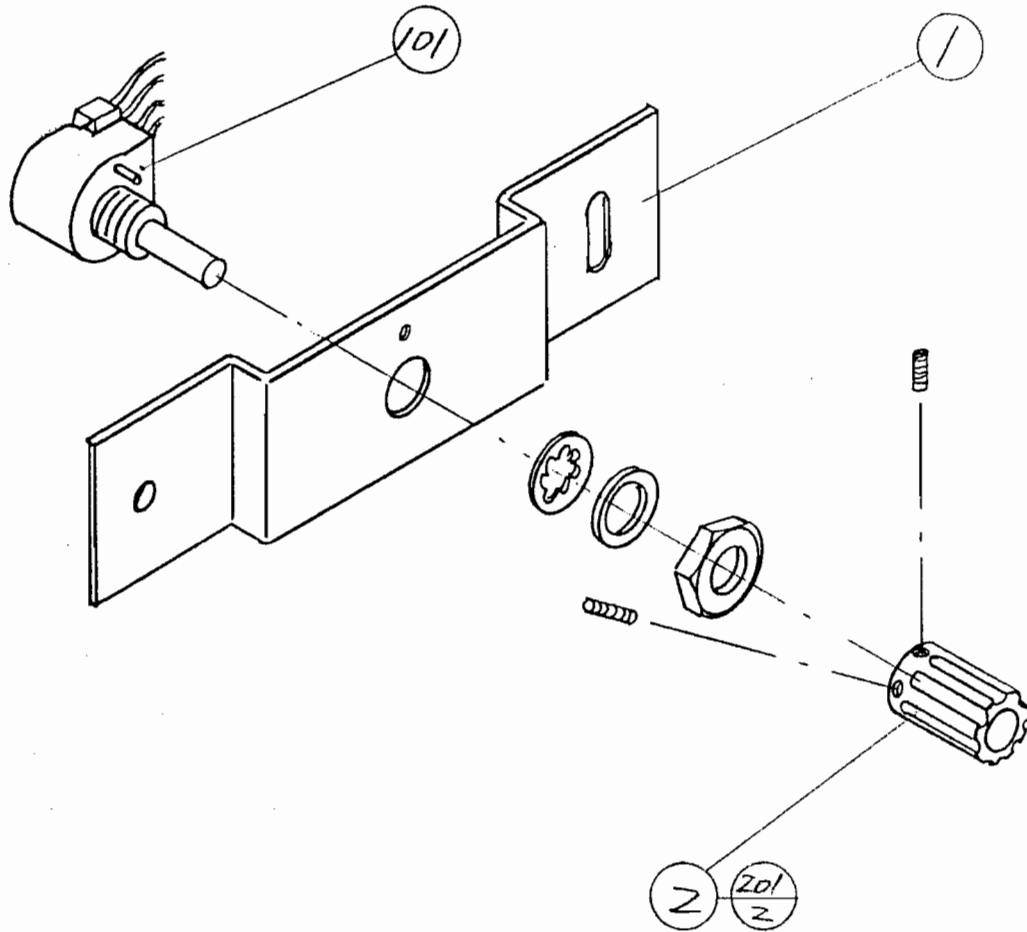
ITEM NO.	PART NO.	DESCRIPTION	NOTE
205	050-0010	HEX NUT M10	
206	061-0010	SPR WSHR M10	
207	060-0010	FLT WSHR M10	
208	059-0016	HEX NUT M14	
209	069-0019	SPR WSHR M14	
210	069-0045	FLT WSHR M14	
211	028-0019	SET SCR HEX SKT CP UNBR M4×8	
212	059-0017	HEX NUT P=1.75 M12	
213	069-0030	SPR WSHR M12	
214	069-0020	FLT WSHR M12	
215	005-3513-F	W SCR RH W/F 3.5×13	
216	050-0008	HEX NUT M8	
217	061-0008	SPR WSHR M8	
218	060-0008	FLT WSHR M8	
219	008-0408	TMP PRF SCR TH M4×8	
220	053-0004	WING NUT M4	
221	061-0004	SPR WSHR M4	
222	000-0512-S	M SCR PH W/S M5×12	
223	039-0096	HEX BLT M4×40	
224	039-0119	HEX BLT BLK M8×60	
225	069-0048	FLT WSHR BLK 8.5-22×1.6	
226	069-0026	SPR WSHR BLK M8	
227	005-3516	W SCR RH 3.5×16	




①⑥ ASSY BEAM SENSOR (RDM-3010)



ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	RDM-3011	SENSOR COVER	
2	RDM-3012	SENSOR HOLDER	
101	370-5042	BEAM SENSOR	
201	008-0408	TMP PRF SCR TH M4×8	
301	SGB-4084-39	WIRE HARN SENSOR 1	
	211-5274-03WH	CONN PLUG AMP MINI 03P-WH	
	211-5278	CONN PIN AMP MINI AWG 22-18	
	209-0023	CONN CLOSED END	
	601-0460	PLASTIC TIE BELT 100mm	

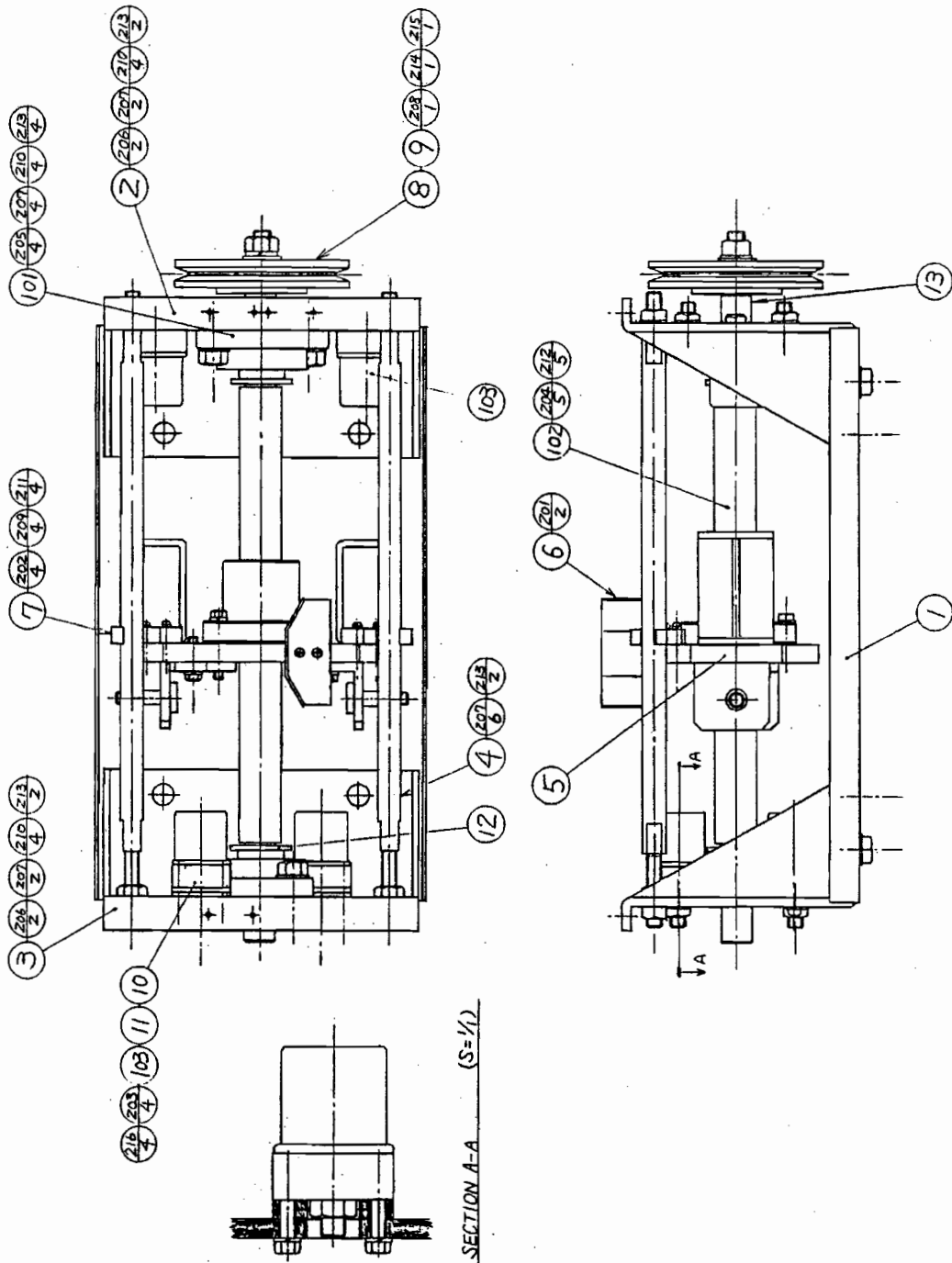
①⑦ ASSY ENCODER (RDM-3020)



ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	RDM-3013	ENCODER BRACKET	
2	601-5410	GEAR 15, $\phi 6$	
101	370-5043	OPT INC ENCODER 100PLS	
201	018-0001	SET SCR HEX SKT CP UNBR M3x4	

⑱ ASSY MECHANISM (RDM-3100)

(D-1/3)



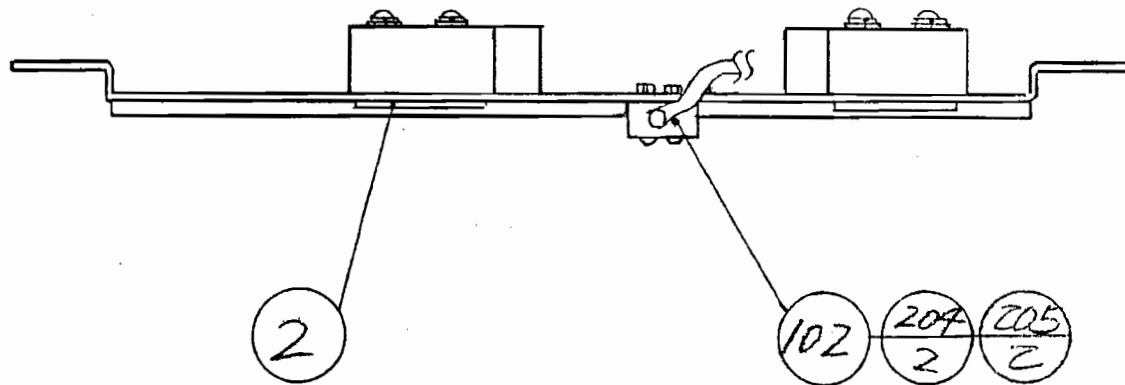
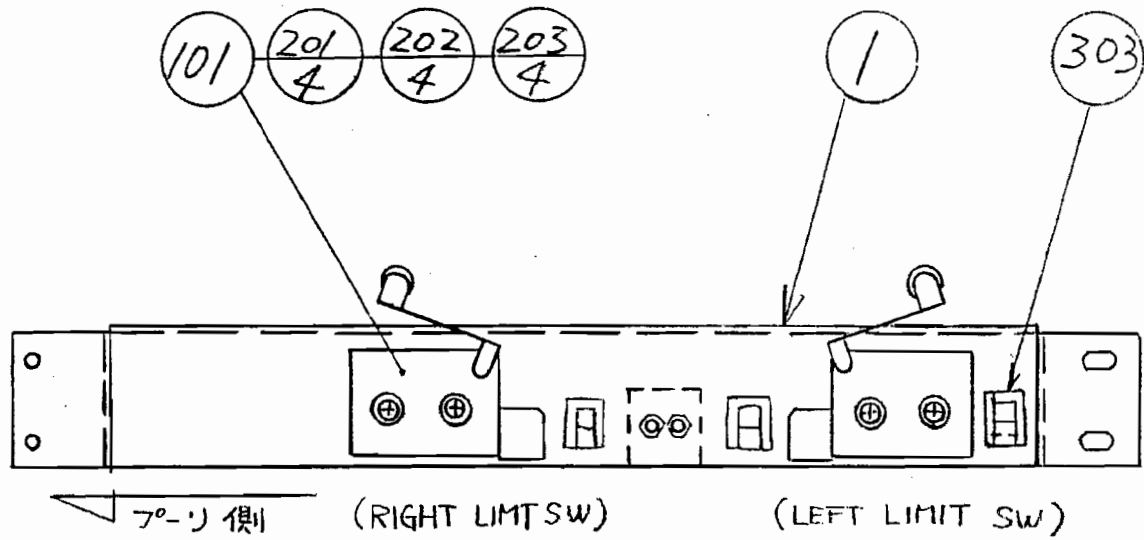
⑱ ASSY MECHANISM (RDM-3100)

(D-2/3)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	YZ-3101	MECHA BASE	
2	YZ-3102	SIDE PLATE	
3	RDM-3101	SIDE PLATE R	
4	YZ-3103	ADJUST SHAFT	
5	GLC-3052	MOVING PLATE	
6	GLC-3053	ACTUATER	
7	YZ-3109	SHAFT GUIDE	
8	YZ-3110	DRIVEN PULLEY	
9	RH-3311	KEY	
10	GLC-3054	STOPPER SPACER	
11	GLC-3055	ADJUST RING	
12	RH-3313	BEARING SPACER	
13	YZ-3116X	THRUST COLLAR	
101	100-5025	BERING UNIT	
102	350-5081	BALL SCREW R	
103	601-5472	RUBBER STOPPER	
201	000-0412-FS	M SCR PH W/FS M4×12	
202	000-0430	M SCR PH M4×30	
203	030-0520	HEX BLT M5×20	
204	030-0630	HEX BLT M6×30	
205	039-0013	HEX BLT M10×40	
206	039-0021	HEX BLT M10×25	
207	050-0010	HEX NUT M10	
208	059-0017	HEX NUT P=1.75 M12	

①9 ASSY LIMIT SWITCH (RDM-3150)





(D-1/2)



註) LIMIT SWのワイヤは N.C 設定に接続。

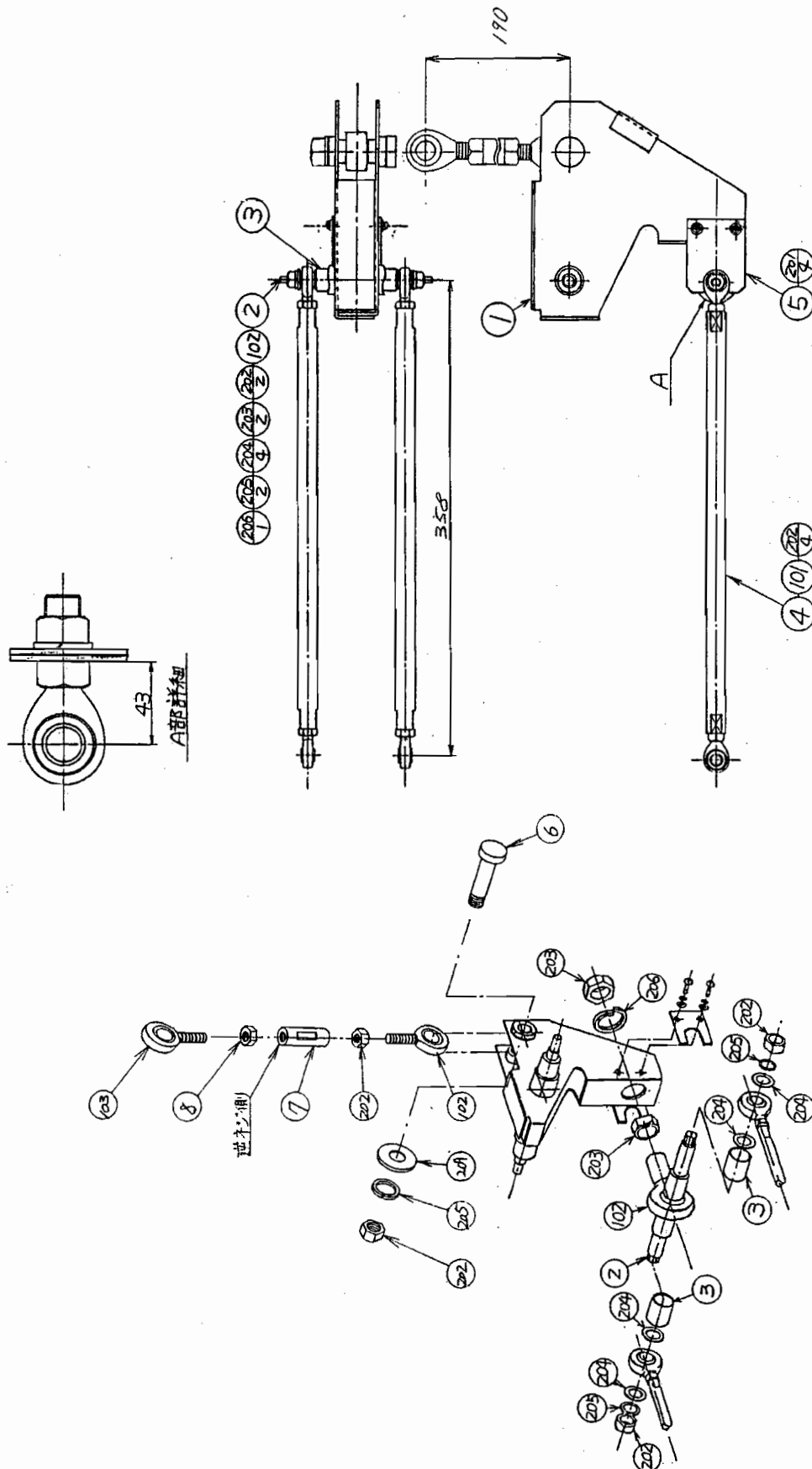
① ASSY LIMIT SWITCH (RDM-3150)

(D-2/2)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	RDM-3151	SWITCH BRACKET	
1	KR-3023	LIMIT SW NUT PLATE	
101	509-5199	SW MICRO TYPE	
102	509-5363	MAG, LIMIT SW	
201	000-0430	M SCR PH M4×30	
202	060-0004	FLT WSHR M4	
203	061-0004	SPR WSHR M4	
204	000-0314-FS	M SCR PH W/FS M3×14	
205	051-0003	FLG NUT M3	
301	SGB-4084-25	WIRE HARN LIMIT SW	
	211-5282-06RE	CONN PLUG 9090 06P-RE	
	211-5284	CONN PIN 9090 AWG 18-24	
	211-0167	TERM LUG RND ID 5	
302	601-0460	PLASTIC TIE BELT 100mm	
303	280-0425	CORD CLAMP 10φ	
304	209-0023	CONN CLOSED END	












② ASSY CRANK (RDM-3200)

(D-1/2)



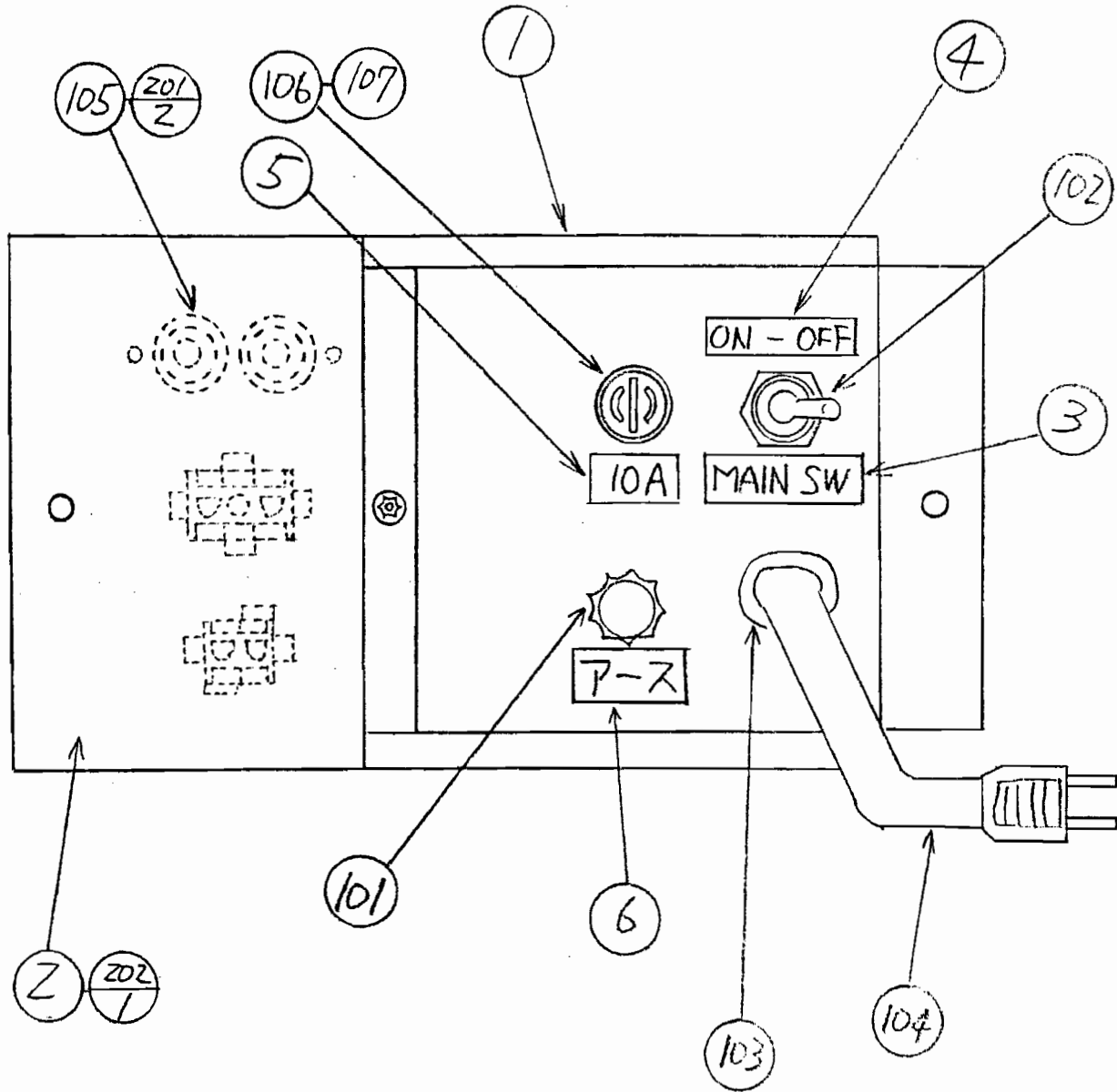
20 ASSY CRANK (RDM-3200)

(D-2/2)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	GLC-3131	CRANK	
2	GLC-3132	JOINT SHAFT	
3	GLC-3133	J. SHAFT COLLAR	
4	RDM-3201	PARALELL LOD	
5	GLC-3135	GUIDE J. SHAFT	
6	GLC-3016	ROD SCREW	
7	RDM-3202	CON ROD	
8	RDM-3203	NUT 18 L	
101	111-0010	ROD END ϕ 10	
102	111-0018	ROD END ϕ 18	
103	111-0025	ROD END ϕ 18 L	
201	000-0512-FS	M SCR PH W/FS M5 \times 12	
202	050-0010	HEX NUT M10	
203	059-0020	HEX NUT M18 (P=1.5)	
204	060-0010	FLT WSHR M10	
205	061-0010	SPR WSHR M10	
206	069-0034	SPR WSHR M18	
207	090-0012	SCREW LOCK	
208	090-0013	GREASE	

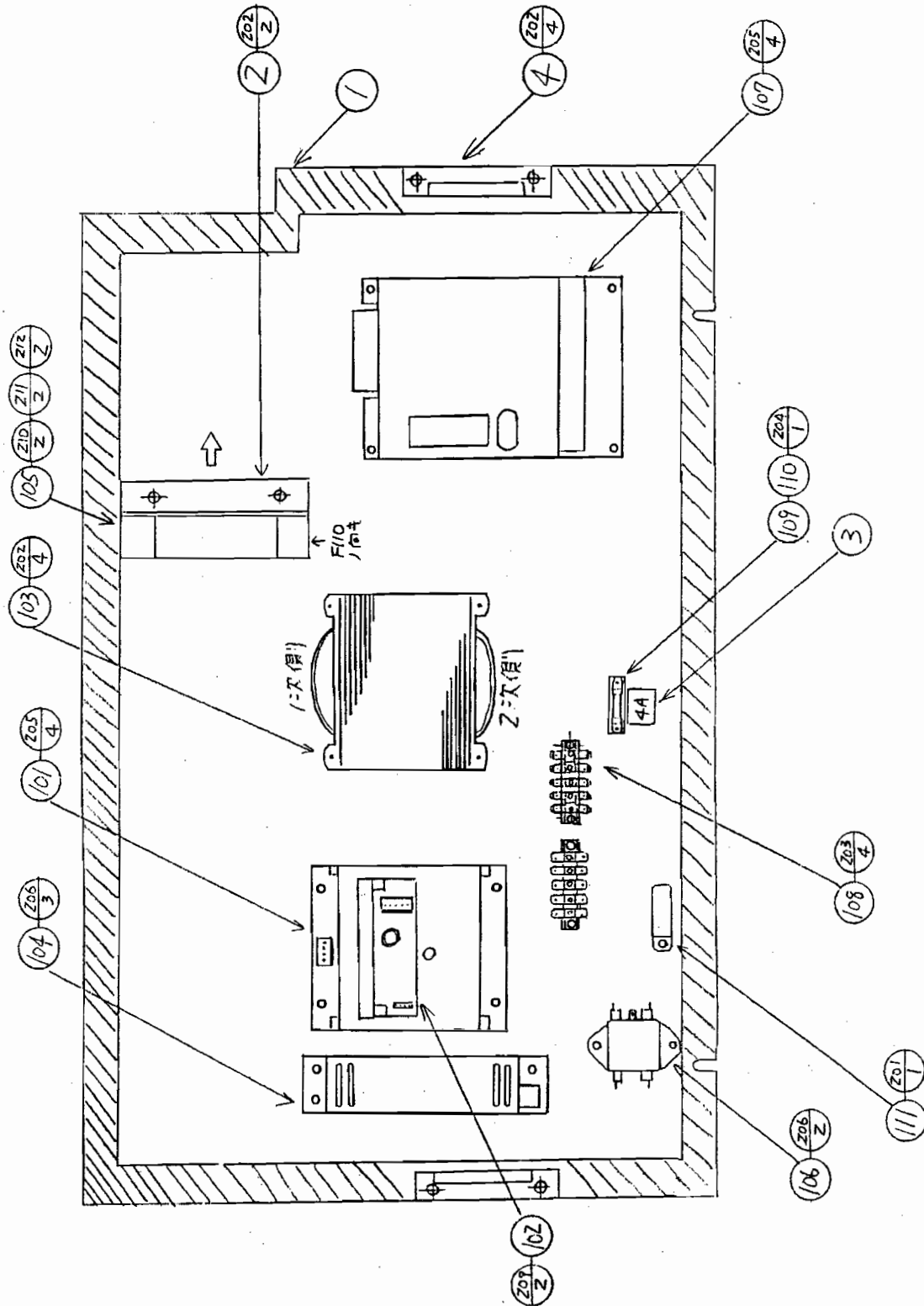
②① ASSY AC UNIT (RDM-3300)

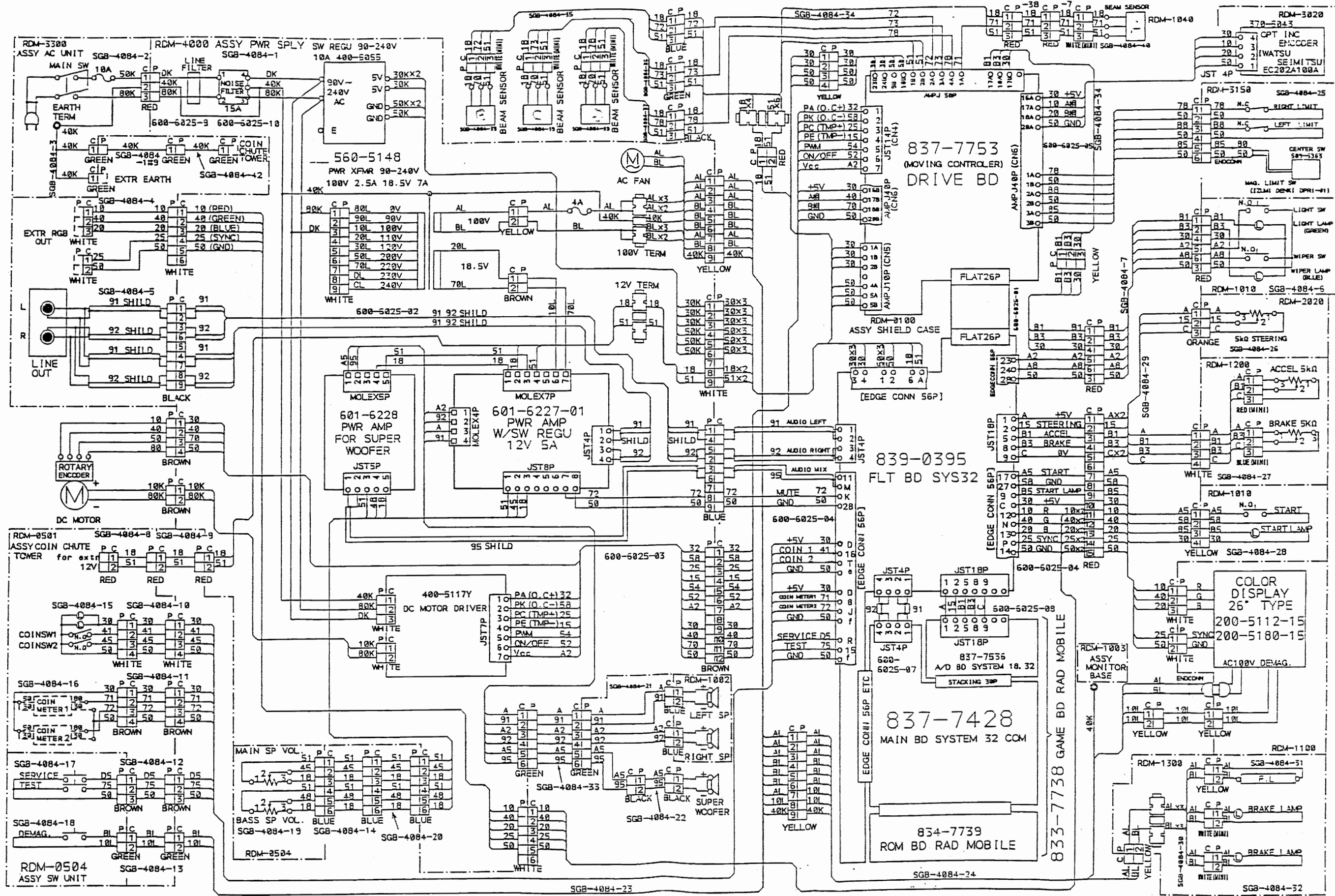
(D-1/2)



22 ASSY PWR SPLY (RDM-4000)

(D-1/2)





25. WIRING DIAGRAM (D-1/2)

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