

**SEGA<sup>®</sup>**

**G-LOC**  
**AIR BATTLE**  
**LOSS OF CONSCIOUSNESS BY G FORCE**

**OWNER'S MANUAL**

DELUXE TYPE



**SEGA ENTERPRISES, LTD.**





## 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 G-L.O.C 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 1990 and is the property of SEGA ENTERPRISES, LTD.

### 3. PRECAUTIONS CONCERNING THE PLACE OF INSTALLATION

THE G-L.O.C. DELUXE TYPE is an indoor game machine. Install in environmental temperature from 5°C (41°F) to 40°C (104°F). 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 G-L.O.C. 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.

	AC 120V	AC 220V	AC 240V
RATED CURRENT	10.5 A	6.7 A	6.9 A

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

#### 4. SAFETY MEASURES

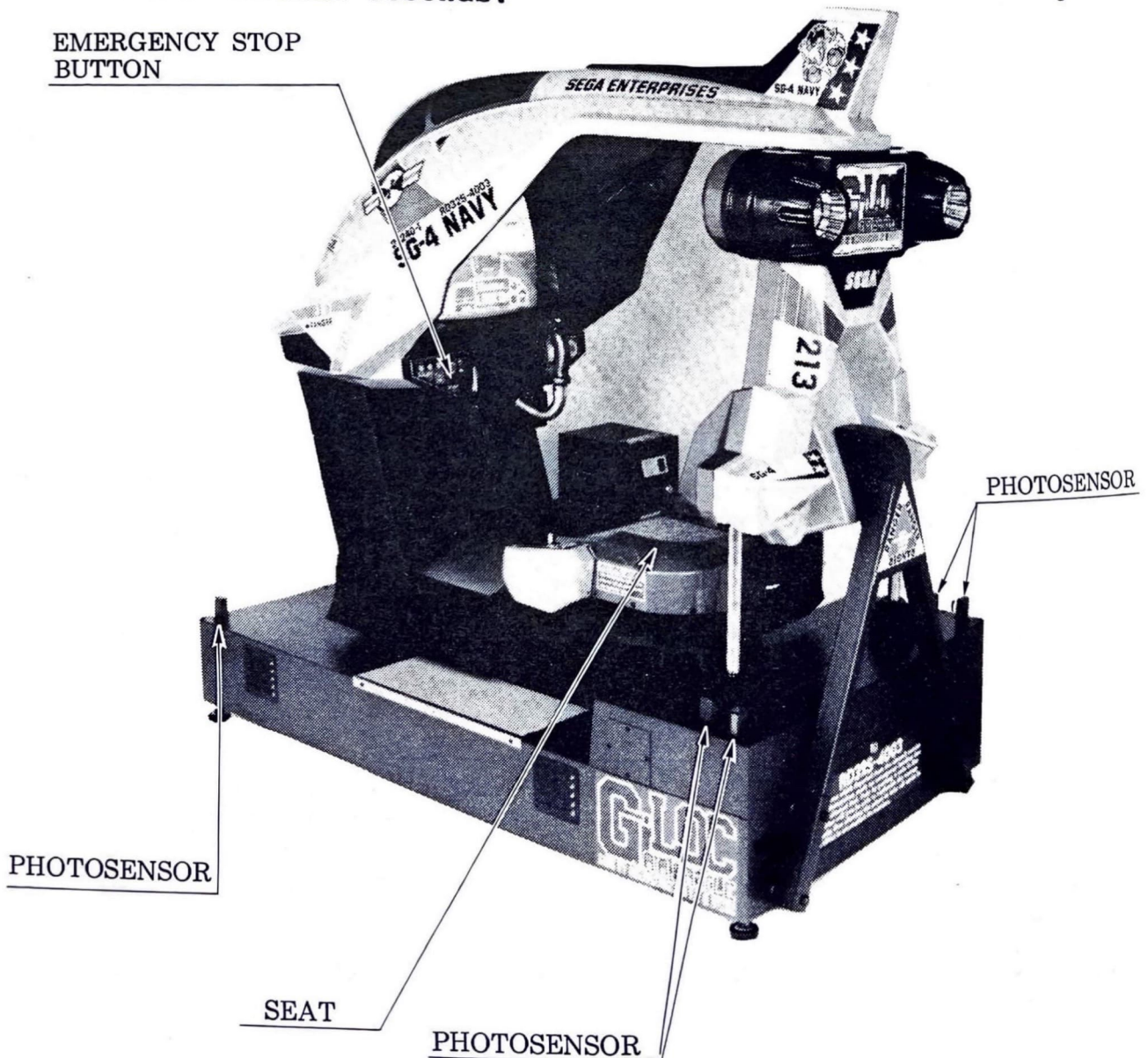
In order to ensure the safety of the customers while playing, this machine is designed in a manner so that any dangerous situation can be evaded. When playing, be sure to use the seat belt.

① EMERGENCY STOP button:

When this is pushed during game play, the seat position returns as it was at the time of starting and the cabinet movements stop until GAME OVER.

② Photosensor:

When the photosensor detects a certain object, the seat first becomes level and then will be raised upwards. If it no longer detects the object, the cabinet starts moving after several seconds.





5. NAME OF PARTS

20 INCH MONITOR

(200-5090)  
(200-5095)

HOOD

GLC-1002

CONTROLLER

GLC-2000

COIN CHUTE TOWER

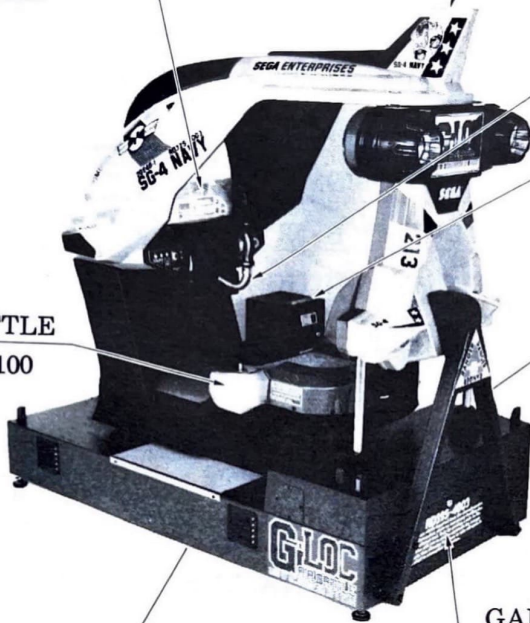
GLC-0500

THROTTLE

GLC-2100

PILLAR

GLC-0003



MECHANISM BASE

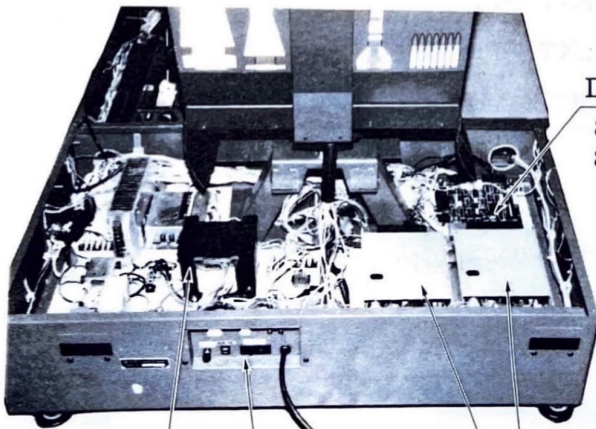
GLC-3001

GAME BD G-L.O.C.

834-7300-03 } U.S.A.  
834-7300-04 }  
834-7300-05 }  
834-7300-06 }  
834-7300-07 }  
834-7300-08 }

DRIVE BD

839-0340  
839-0340-01



POWER SUPPLY

GLC-4000

AC UNIT

GLC-3300

MOTOR DRIVER

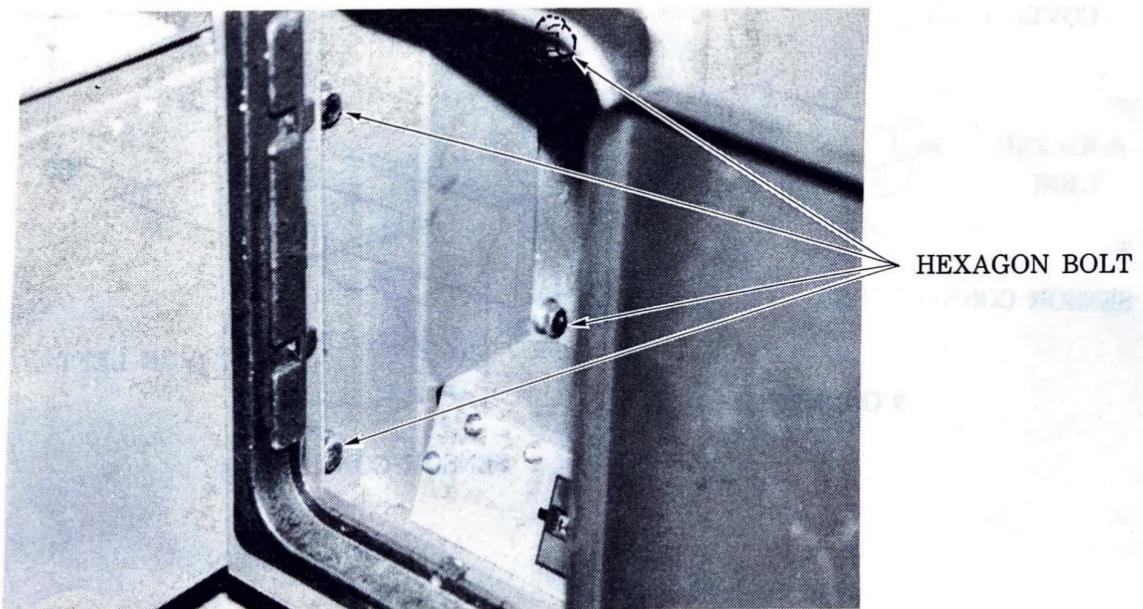
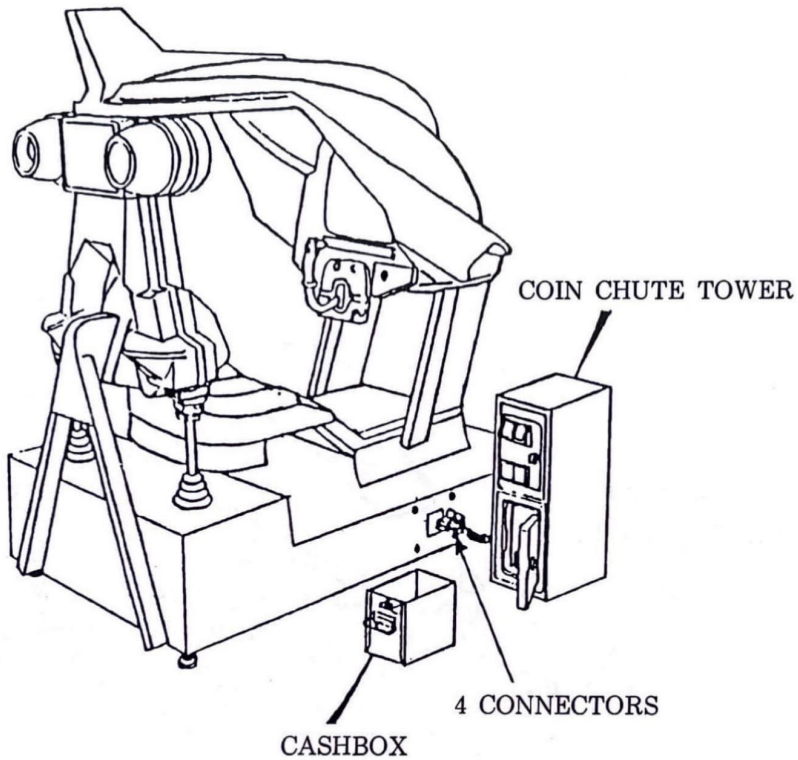
400-5117

## TOOLS & ACCESSORIES

PART NO.	Q/U	DESCRIPTION
008-0410	10	TMP PRF SCR TH M4×10
008-0420	5	TMP PRF SCR TH M4×20
008-0510	10	TMP PRF SCR TH M5×10
008-0520	5	TMP PRF SCR TH M5×20
090-0044	1	GREASE NET 300g
125-0011	1	COMPRESSION SPRING
220-5130	1	VOL CONT B-5K OHM
421-6094	2	STICKER CAUTION ENG
421-6482-01	2	STICKER CAUTION ENG
421-7048	1	STICKER CAUTION KEEP HANDS OFF
509-0058	1	SWITCH MICRO TYPE
509-5319	1	SW PUSH BUTTON 1T YELLOW
509-5324-01	1	SW PB 1M RED W/O RING & CASE
540-0006-01	1	WRENCH FOR TAMP PRF SCR M4
540-0007-01	1	WRENCH FOR TAMP PRF SCR M5
540-0015-01	1	WRENCH FOR TAMP PRF SCR M6
540-0027	1	L-WRENCH FOR HEX SOC 2mm
601-6150	4	BRUSH FOR MOTOR
TX-1317	2	EXT. SPRING
TX-1330	2	EXT. SPRING
NO. 1027	1	SCHEMATIC DIAGRAM SEGA G-L.O.C. DX.

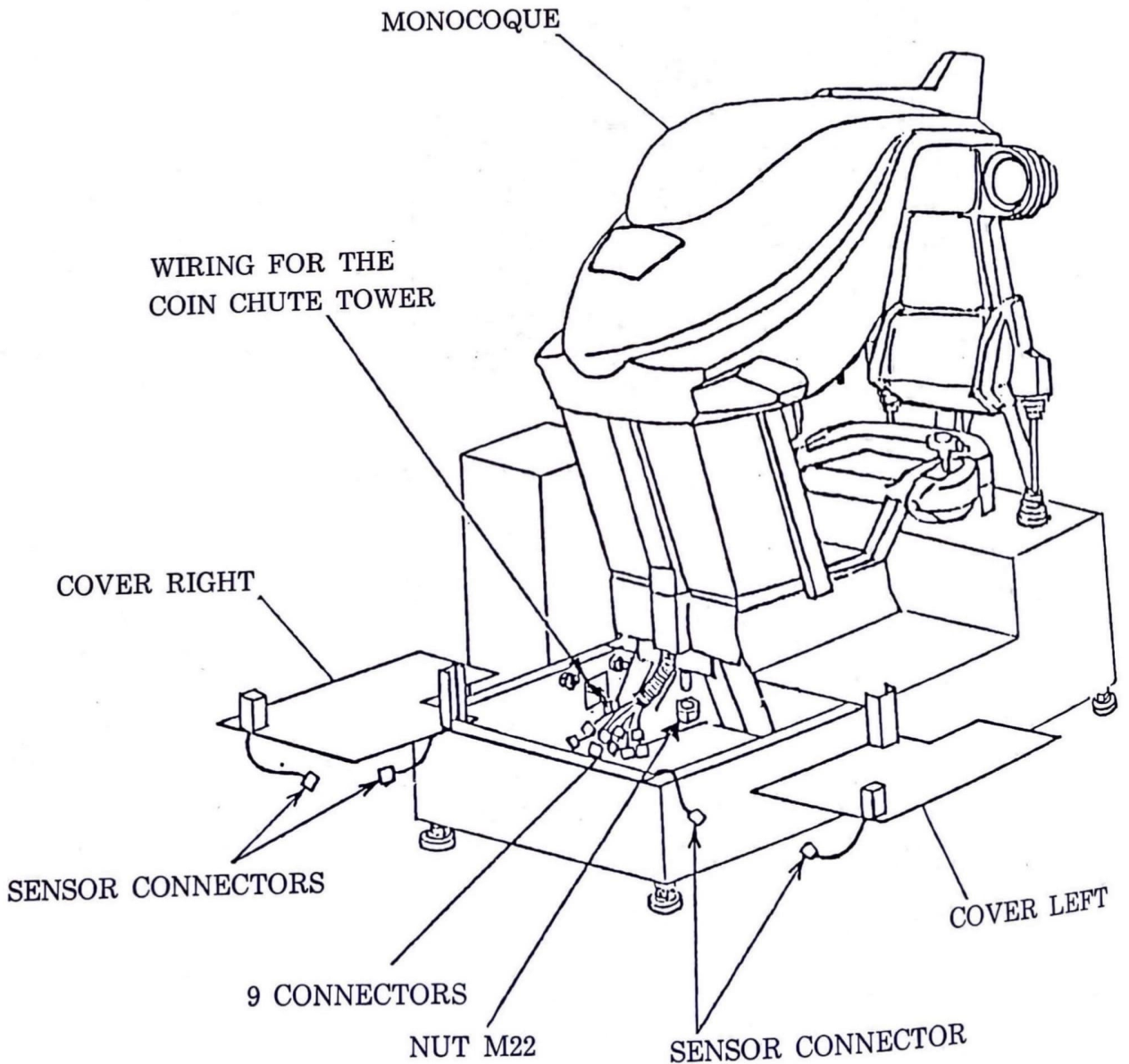
## 6. REMOVING THE COIN CHUTE TOWER

- ① Take out the CASHBOX and remove the 4 HEXAGON BOLTS.
- ② Disconnect the 4 CONNECTORS (Yellow 4P, Red 9P, Red 6P, Brown 2P)

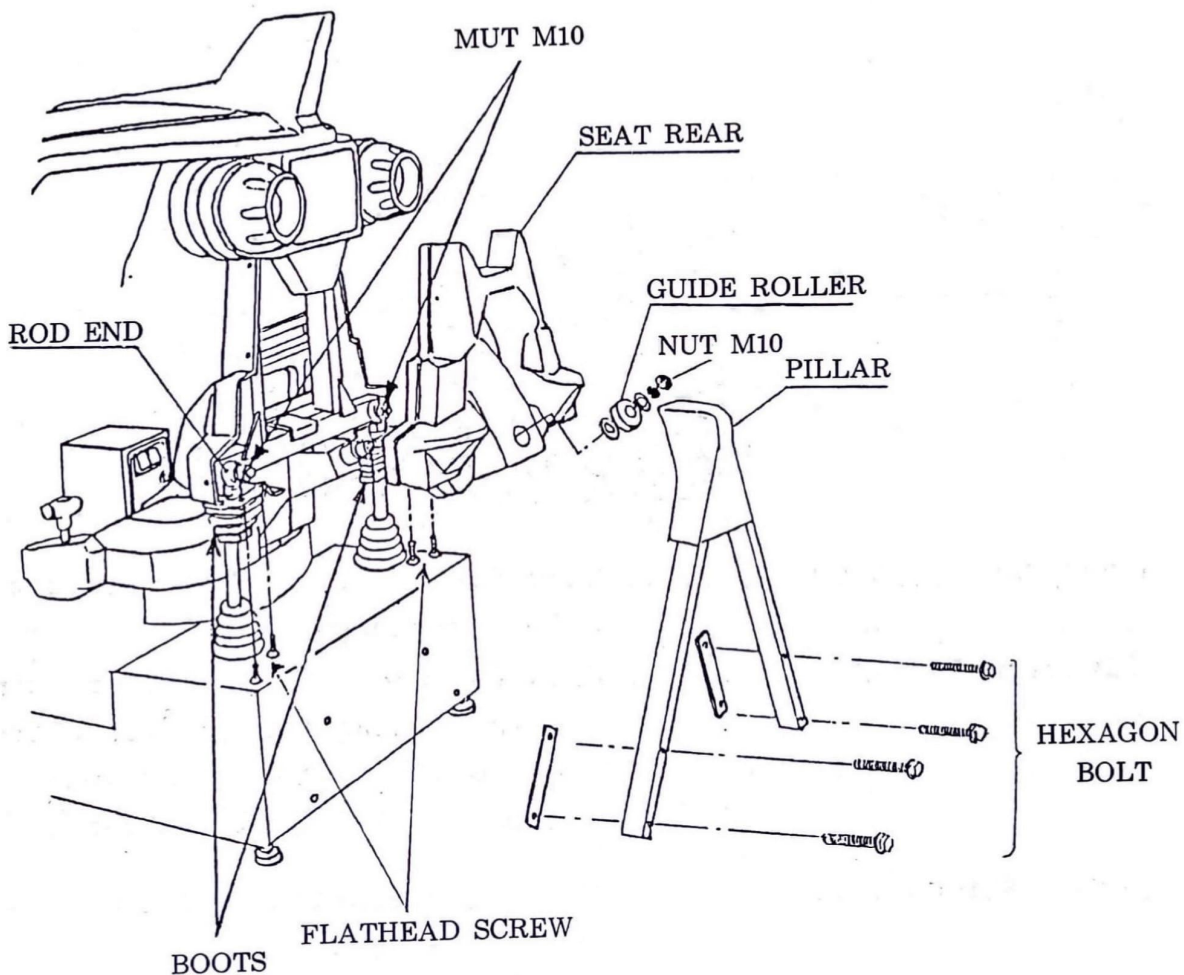


## 7. REMOVING THE MONOCOQUE

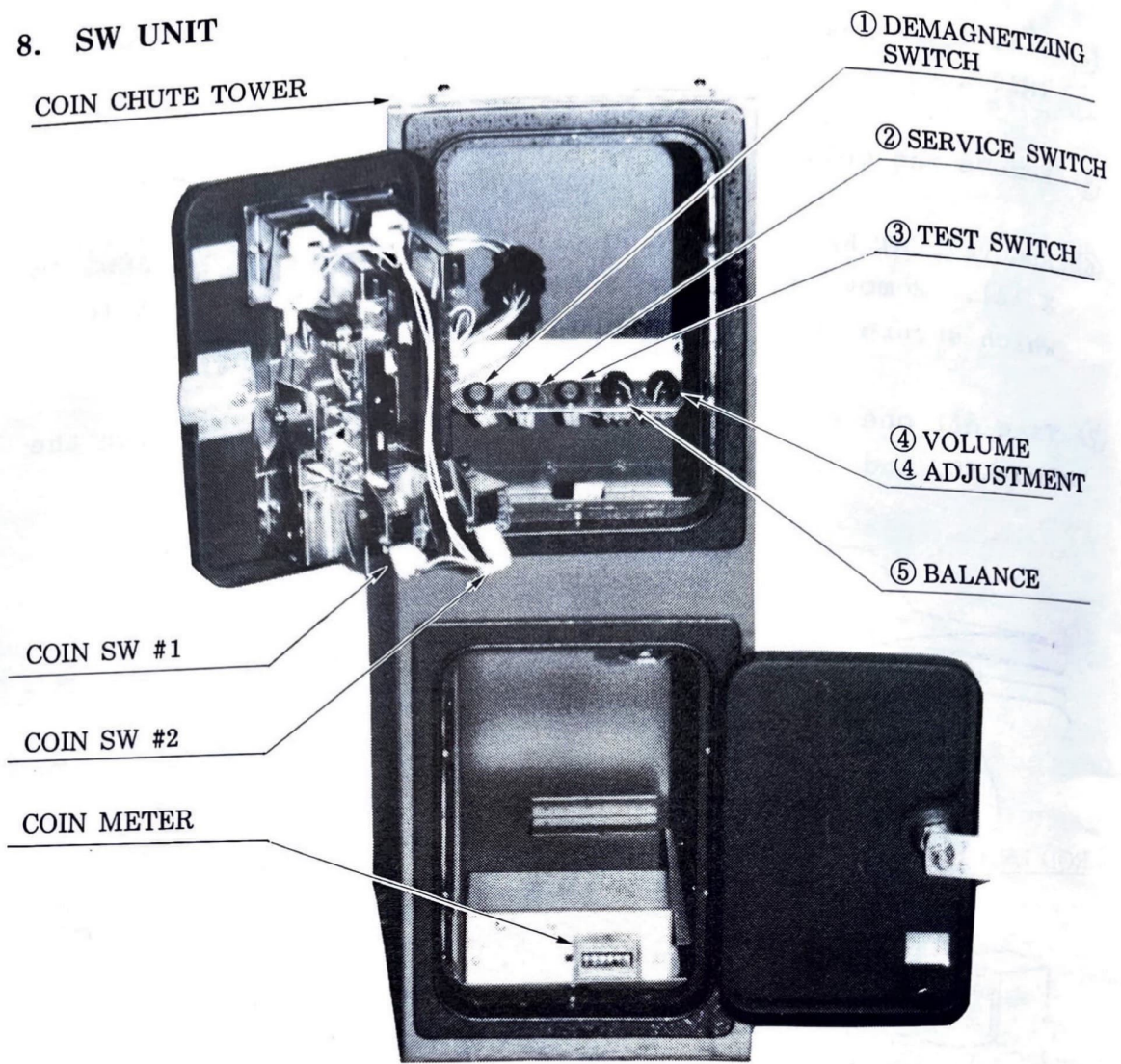
- ① Take off COVER LEFT and COVER RIGHT by removing TAMPERPROOF SCREWS M4 X 10 (9 in all).  
At this time, disconnect the SENSOR CONNECTOR (Yellow 3P, one each).
- ② Disconnect the 9 CONNECTORS.
- ③ Take off the NUT (M22).



- ④ Remove the PILLAR by taking off the 4 HEXAGON BOLTS black (M10 X 80).
- ⑤ Remove the GUIDE ROLLER by taking off the NUT (M10).
- ⑥ Remove SEAT REAR by taking off the 8 TAMPERPROOF SCREWS (M4 X 12). Remove 4 each of FLATHEAD SCREWS black (M4 X 16) which secure the right and left BOOTS.
- ⑦ Take off one each (left, right) NUT (M10) which fasten the ROD END, and the MONOCOQUE can be removed.

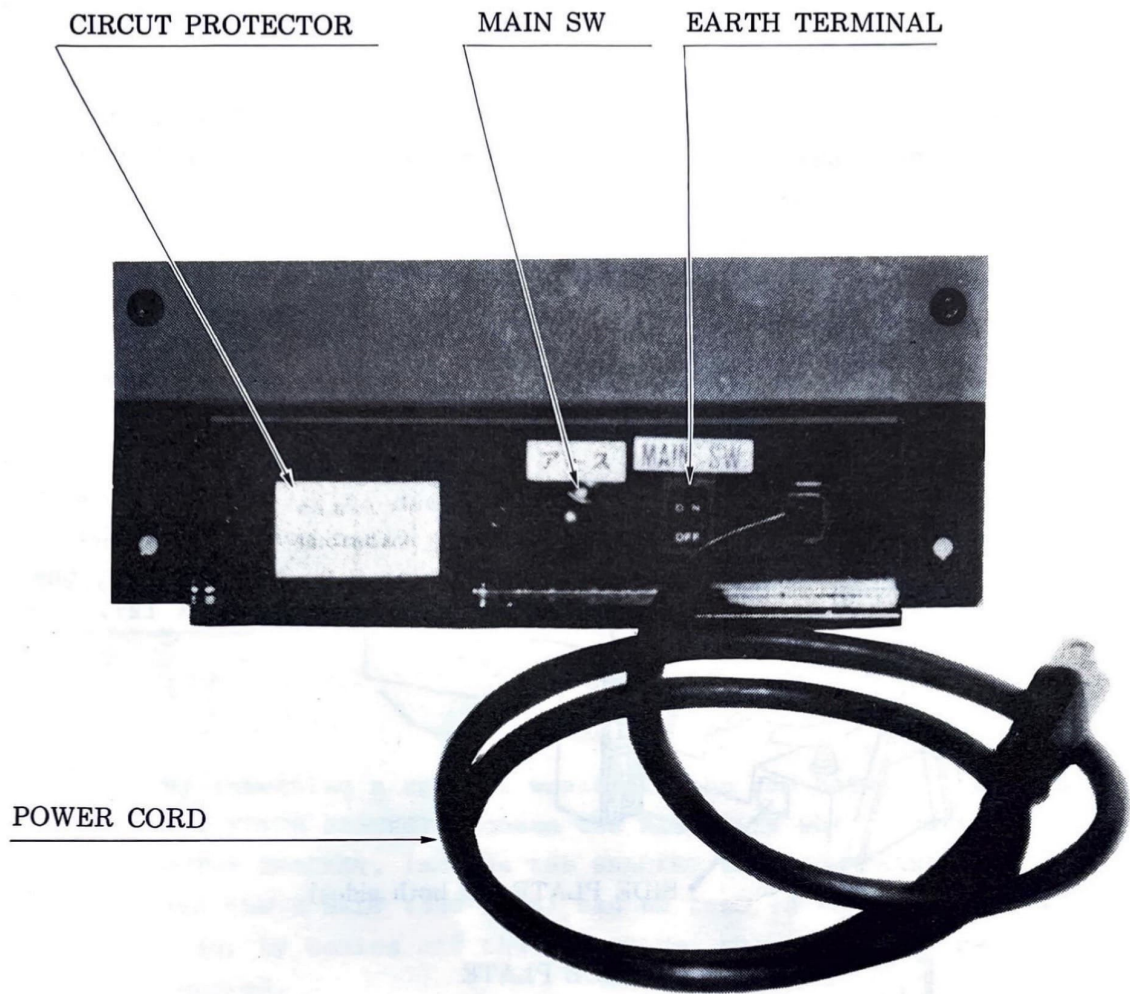


## 8. SW UNIT



- 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 ..... Used for adjusting the volume of the SPEAKER.
- ⑤ BALANCE ..... Used for adjusting the balance.

## 9. AC UNIT



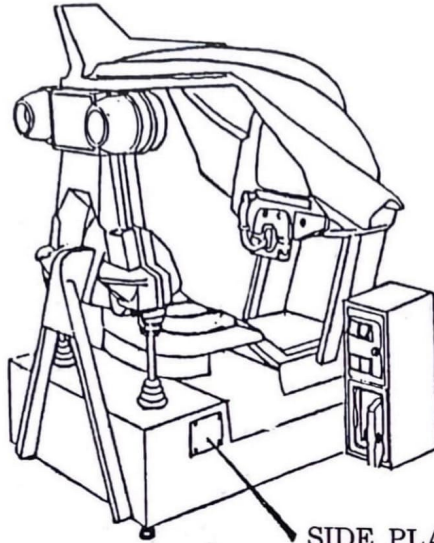
\* When machine malfunctioning occurs, the CIRCUT PROTECTOR to goes OFF and game play will no longer be possible.

First remove the cause of such malfunction and then restore the CIRCUT PROTECTOR back to its original state.

## 10. CRANK UNIT'S VR ADJUSTMENT

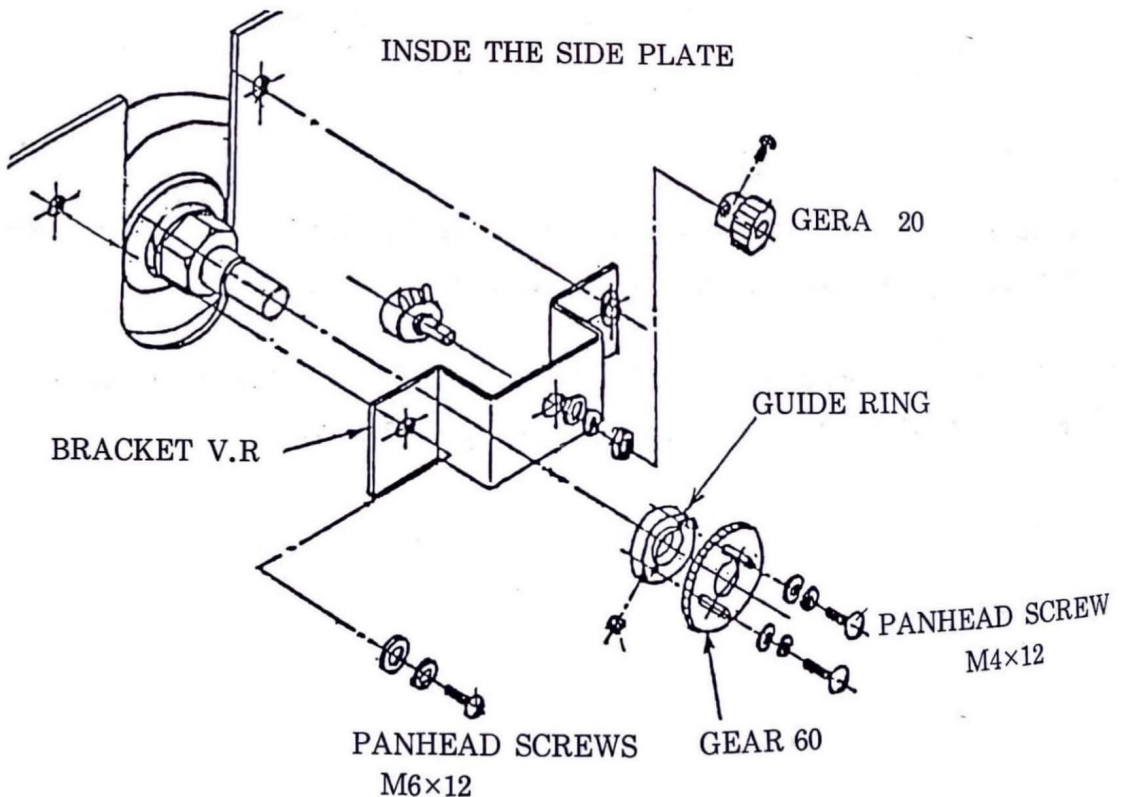
In the STANDBY condition with no one on the machine, cause the MOTOR TEST mode of the SELF-TEST (refer to TEST MODE) to appear, and the CRANK UNIT'S V.R. value will be displayed. At this time, make adjustments to 10H~20H.

When adjustments are needed, remove the base's SIDE PLATE (one each on both sides) by taking off the 4 TAMPERPROOF SCREWS (M4 X 10).



SIDE PLATE (on both sides)

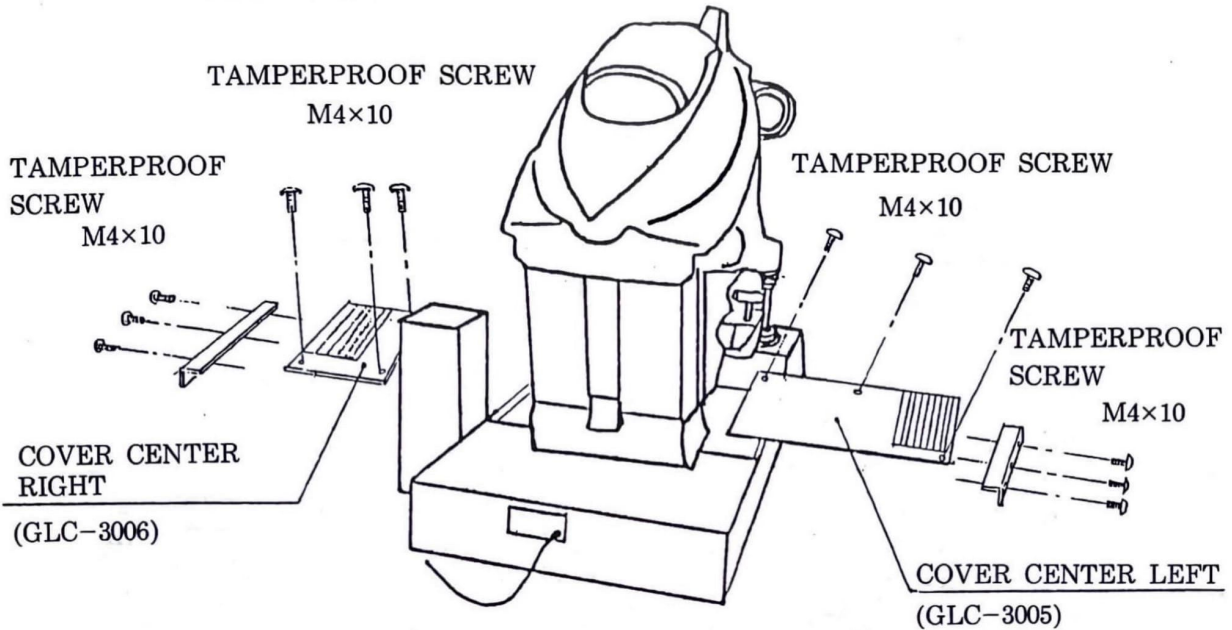
Loosen the 2 PANHEAD SCREWS (M4 X 12) to adjust the installation position of GEAR 60. Backlash adjustment can be made at the fixed position of the BRACKET'S V.R. by loosening the 2 PANHEAD SCREWS (M6 X 12).



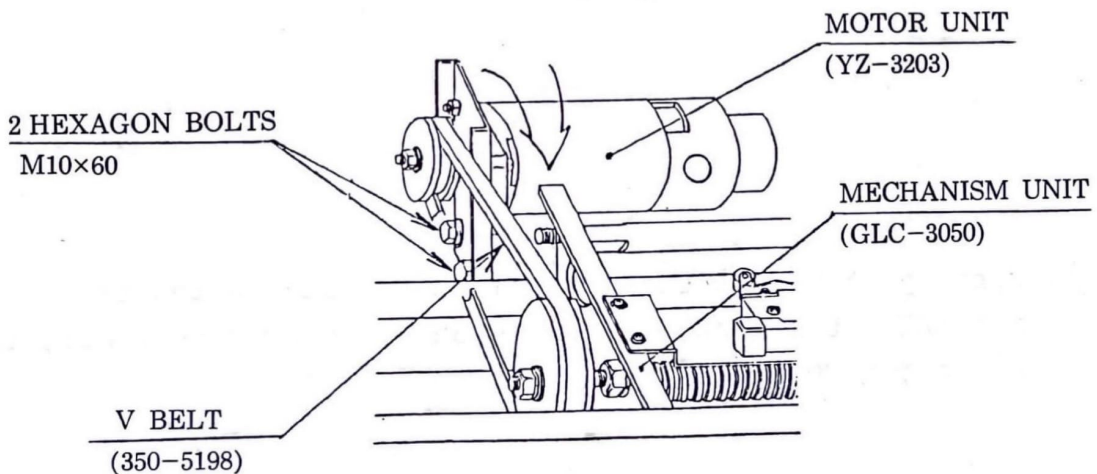


## 11. REMOVING THE MECHANISM UNIT AND MOTOR

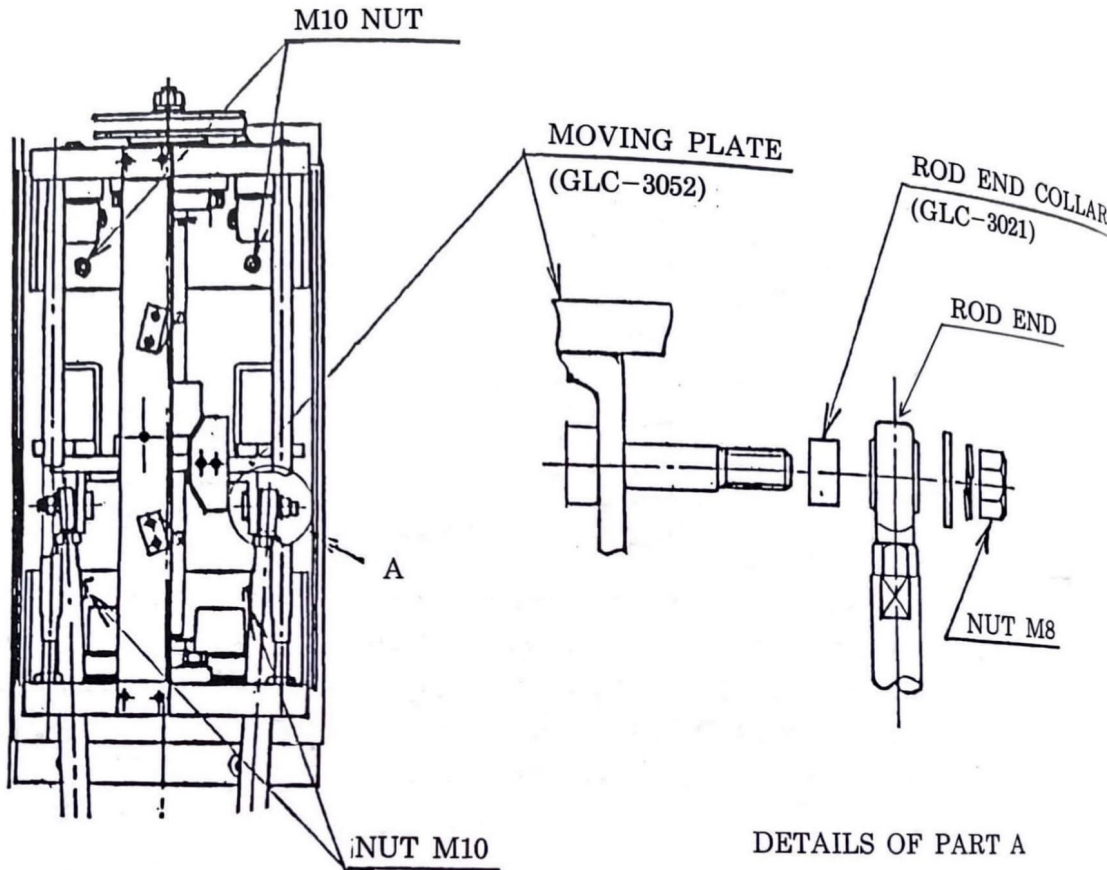
- ① Take off COVER CENTER LEFT (GLC-3005) or COVER CENTER RIGHT (GLC-3006).



- ② 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 BOLTS, the MOTOR UNIT can be removed.



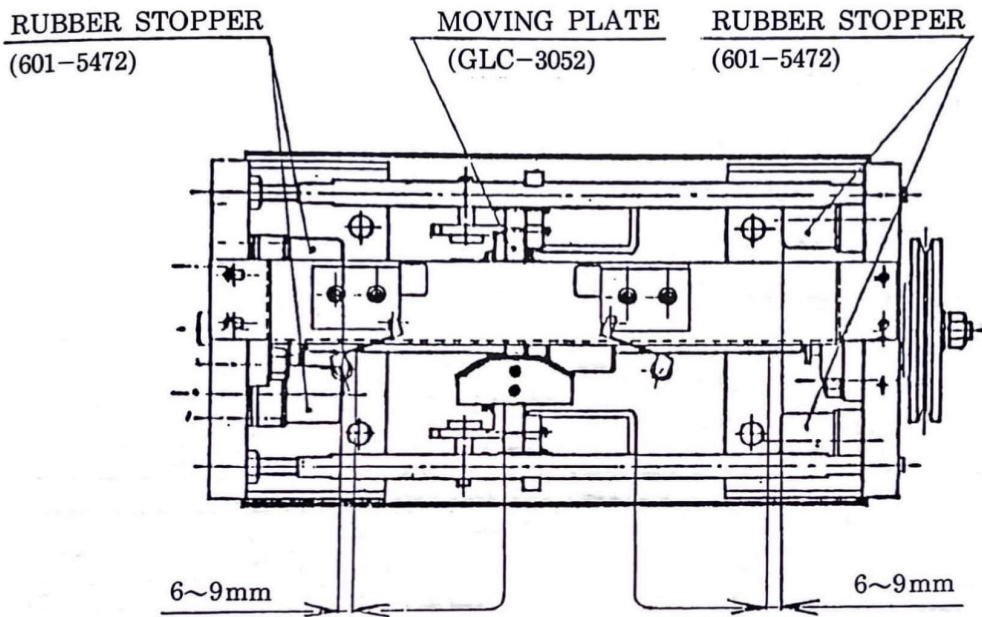
- ③ Take off the HEXAGON NUT (M8) which fastens the ROD END to the MOVING PLATE (GLC-3052)



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

## 12. ADJUSTING THE MECHANISM LIMIT SWITCH

Make adjustment of the LIMIT SWITCH in a manner so that it goes ON when the MOVING PLATE (GLC-3052) comes to a position 6~9 mm before RUBBER STOPPER (601-5472).



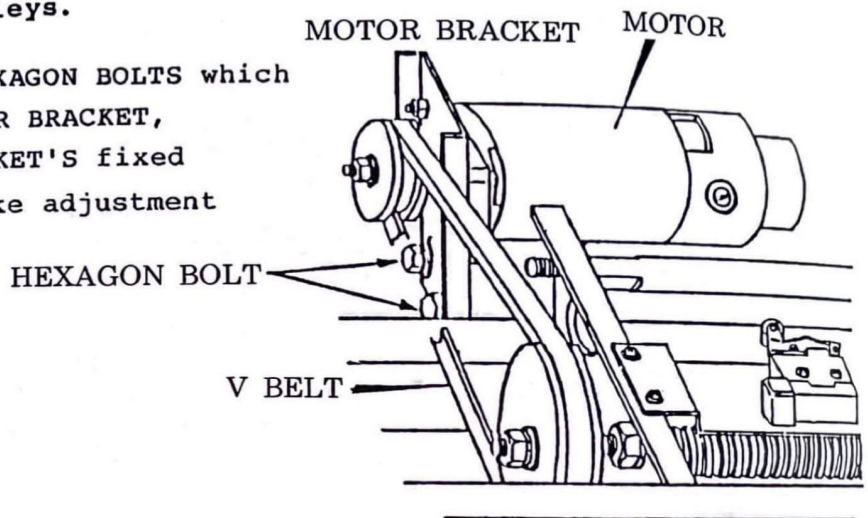
### 13. ADJUSTMENT OF THE V BELT AND REPLACING THE MOTOR BRUSH

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.

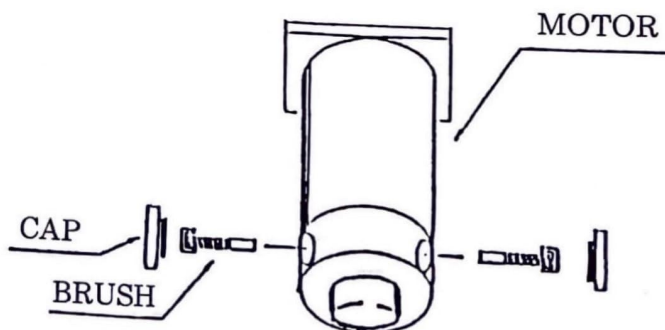
- Loosen the 2 HEXAGON BOLTS which fasten the MOTOR BRACKET, adjust the BRACKET'S fixed position and make adjustment of the BELT.



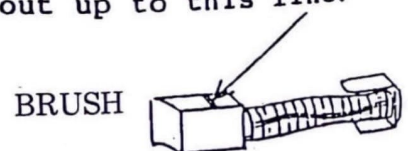
Replace the motor brush as shown below.

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.

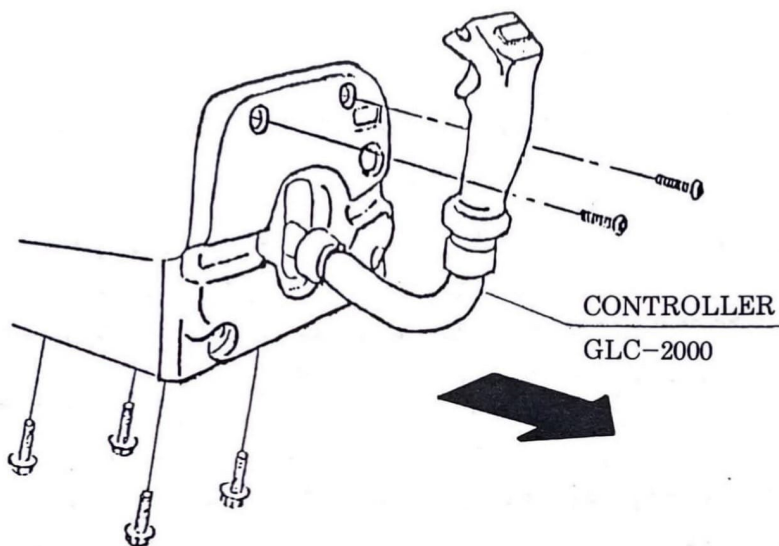


○ Replace the brush when it wears out up to this line.



## 14. REMOVING THE CONTROLLER

By taking off the 2 TAMPERPROOF SCREWS FRONT (M6 X 35) and the 4 HEXAGON BOLTS UNDERSIDE (M8 X 35), pull the CONTROLLER toward you and remove it by disconnecting the 4 CONNECTORS (white 4P, yellow 3P, yellow 4P and green 1P).

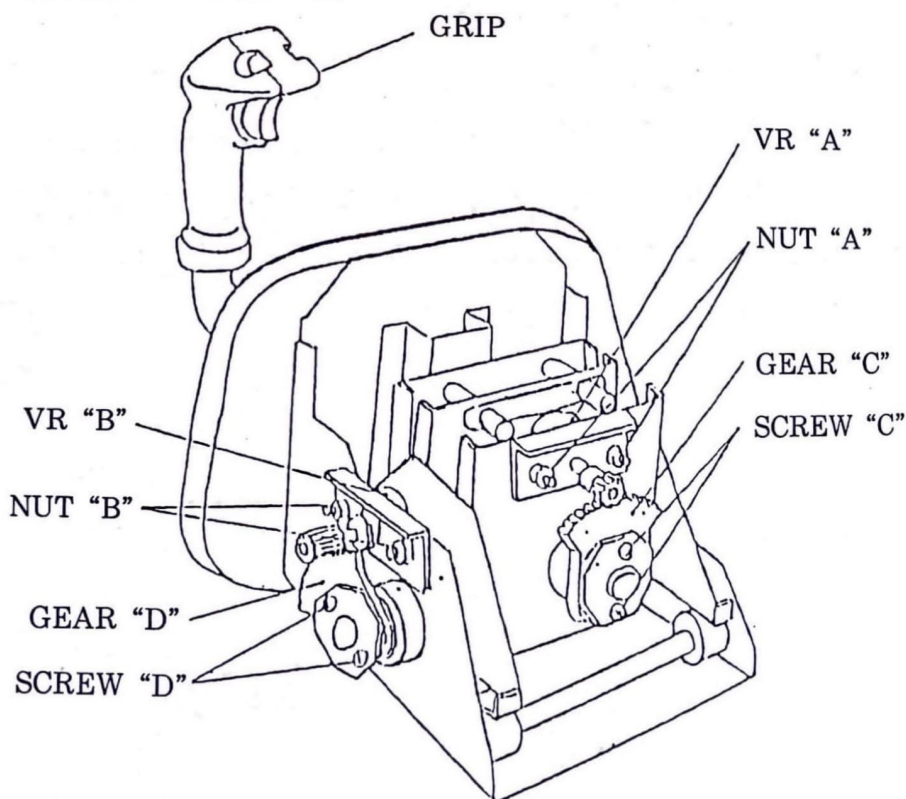


When making the V.R. adjustment, however, it is not necessary to disconnect the CONNECTORS.

## 15. CONTROLLER'S VR ADJUSTMENT

First, have the "INPUT TEST" of the TEST MODE appear on the monitor screen (refer to the explanations of the SWITCH UNIT).

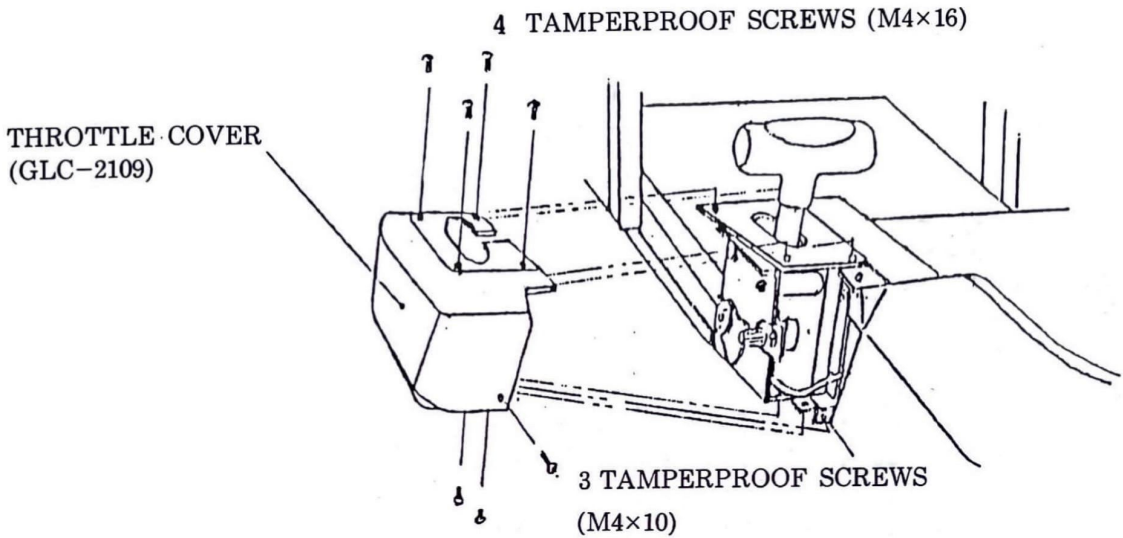
- ① Adjustments in horizontal direction can be made by loosening SCREWS "C" of GEAR "C." With the GRIP being positioned in the center, make adjustment so that the monitor display will indicate  $80H \pm 2H$ . Then, with the GRIP being inclined to the right, make adjustment to  $COH$  or higher, and with the GRIP being inclined to the left, make adjustment to  $40H$  or lower. Backlash adjustment can be made by loosening NUTS "A" which fasten the BRACKET of V.R. "A" and by moving the BRACKET position up and down.
- ② With the CONTROLLER being installed in the machine and its installation angle as is, adjustments in the vertical direction can be made by loosening SCREWS "D" which fasten GEAR "D." Fasten when the monitor display shows  $80H \pm 2H$ . Then, with the GRIP being lifted up, make adjustment to  $BBH$  or higher, and with the GRIP being lowered, to  $45H$  or lower. Make backlash adjustments by loosening NUTS "B" which fasten the BRACKET of V.R. "B."



## 16. REMOVING THE THROTTLE COVER AND THROTTLE UNIT

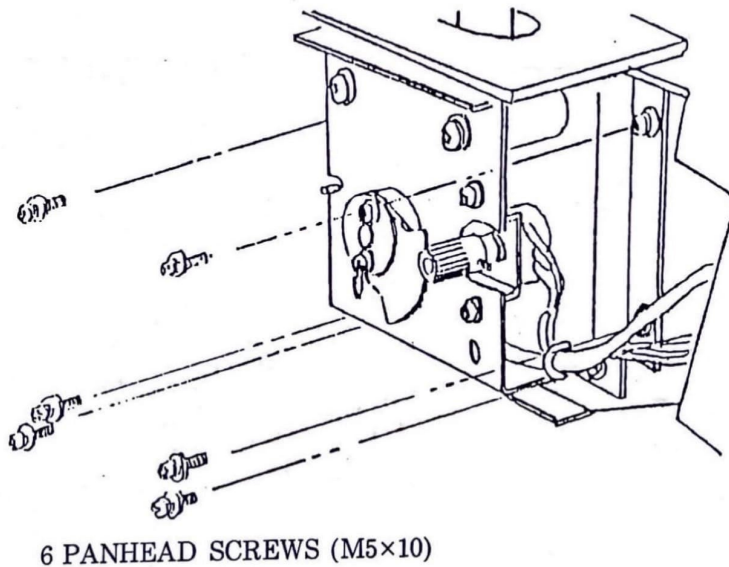
### Removing the THROTTLE COVER

The THROTTLE COVER can be removed by taking off a total of 7 TAMPERPROOF SCREWS, i.e., 3 TAMPERPROOF SCREWS (M4 X 10) on the side of THROTTLE COVER (GLC-2109) and the 4 TAMPERPROOF SCREWS (M4 X 16) of the DESIGN PLATE (GLC-2114).



### Removing the THROTTLE UNIT

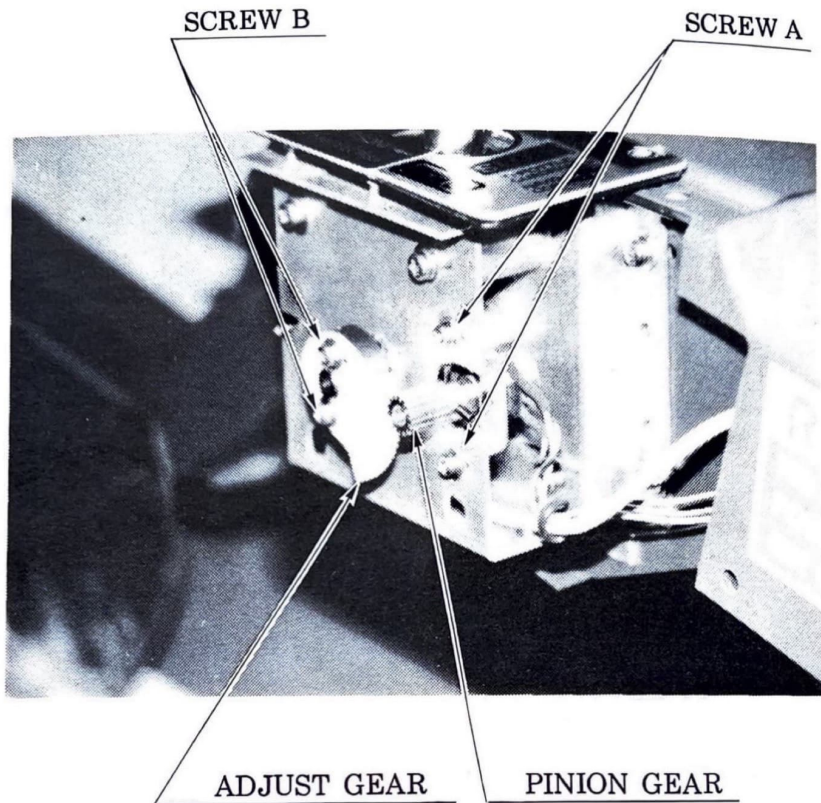
The THROTTLE UNIT can be removed by taking off the 6 PANHEAD SCREWS (M5 X 10) and by disconnecting the CONNECTORS (2P RED, 3P RED)



## 17. THROTTLE ADJUSTMENT

With the THROTTLE LEVER in an as is free condition, display the screen in the SELF-TEST mode

At this time, if the variable value is 30H (+0~-4H), it is OK.



INPUT TEST			
COIN #1	OFF	TEST	OFF
COIN #2	OFF	SERVICE	OFF
VULCAN	OFF	MISSILE	OFF
BURNER	OFF	START	OFF
STICK RIGHT LEFT		⊙	80H
STICK UP DOWN		⊙	80H
SPEED		⊙	30H
PUSH TEST BUTTON			

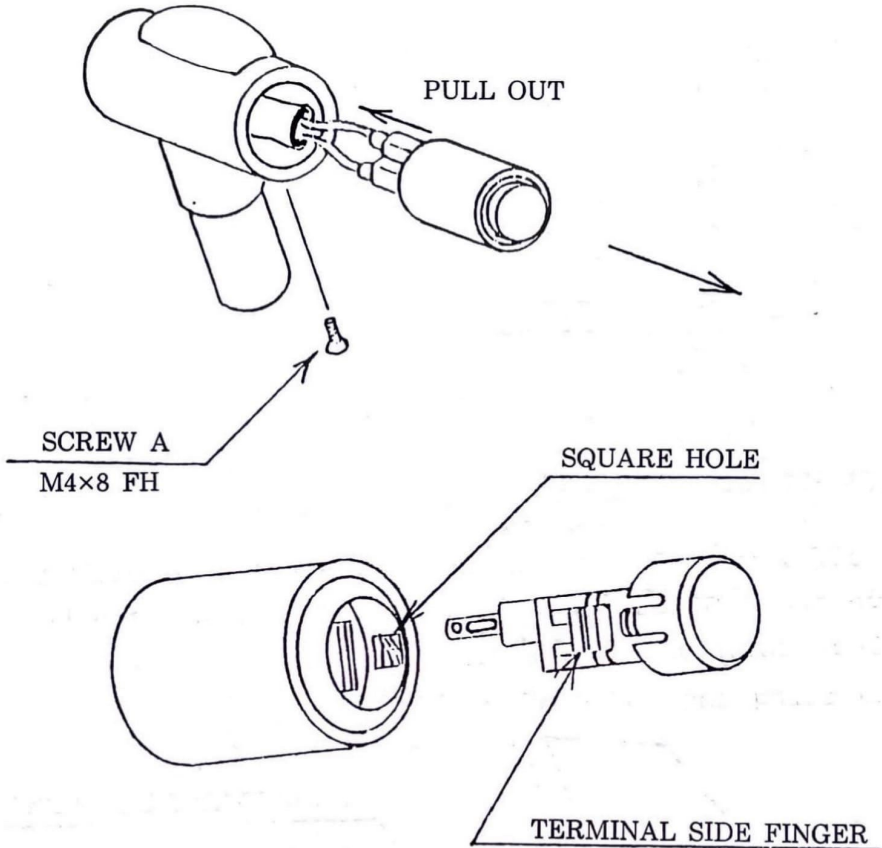
### ADJUSTMENT PROCEDURE

- 1) Loosen SCREW A that fasten the V.R. BRACKET resulting in the BRACKET moving and disengaging the PINION GEAR and ADJUST GEAR.
- 2) At this time, turn the V.R. shaft and make adjustments in a manner so that the variable value becomes 30H (+0~-4H).
- 3) In the case where fine adjustments are necessary, loosen the ADJUST GEAR'S SCREW B and make adjustment.



## 18. REPLACING THE THROTTLE SWITCH

In the INPUT TEST mode, if the BURNER does not go ON even when the THROTTLE SWITCH is pushed, replace the THROTTLE SWITCH by using the following procedure:



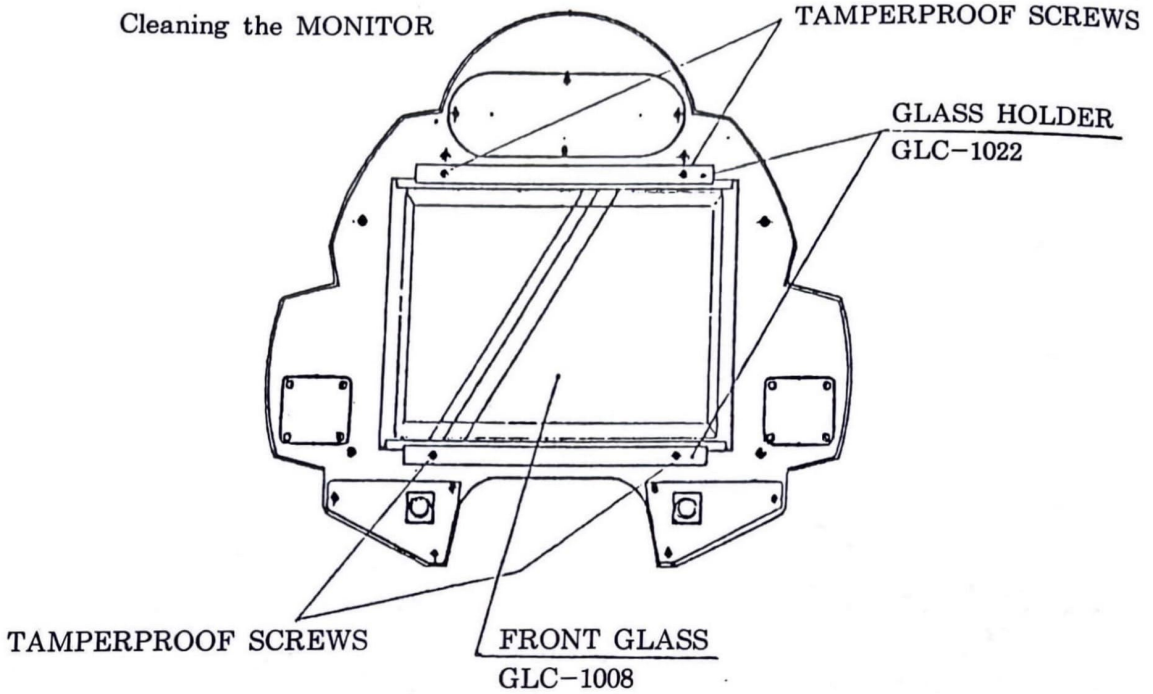
### REPLACING PROCEDURE

- 1) Take off SCREW A which secures the SWITCH COLLAR.
- 2) Pull out the PUSH SWITCH together with the SWITCH COLLAR.
- 3) Pull out the PUSH SWITCH'S FASTON and while pushing in the terminal side's FINGER, remove the PUSH SWITCH.
- 4) Install the SPARE PARTS (509-5324-01) in the direction as shown.
- 5) Assemble it in the procedure opposite from the above.

NOTE: After replacing the switch, if the BURNER in the INPUT TEST does not go ON, then, check for wiring, CONNECTORS, etc.

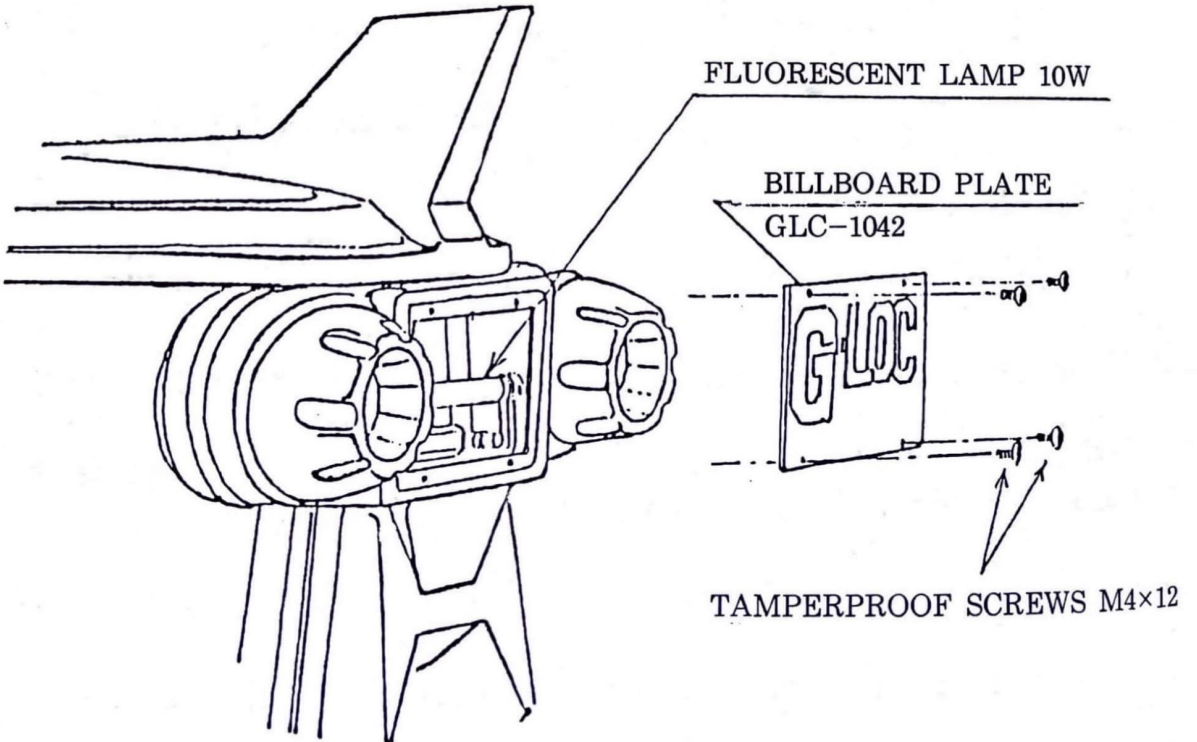
# 19. CLEANING THE MONITOR AND REPLACING THE FLUORESCENT LAMP

Cleaning the MONITOR



Take off 2 TAMPERPROOF SCREWS (M4 X 30) from each side and remove the 2 GLASS HOLDERS. The FRONT GLASS can be removed to clean the monitor's CRT.

Replacing the FLUORESCENT LAMP



Take off the 4 TAMPERPROOF SCREWS (M4 X 12) and remove the BILLBOARD PLATE to replace the FLUORESCENT LAMP.

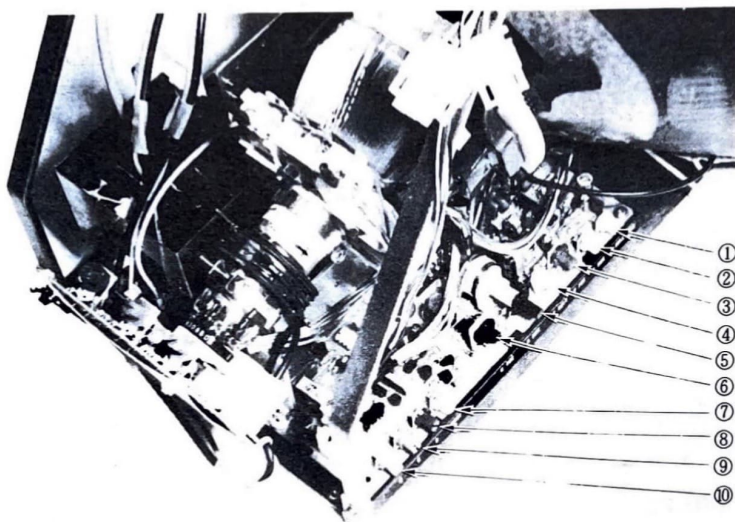
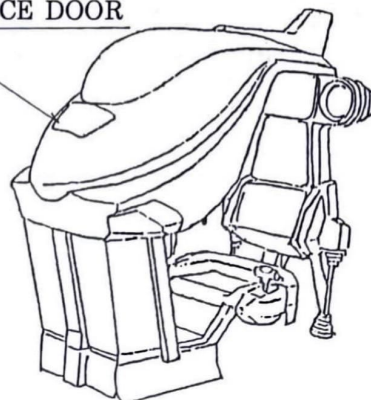
## 20. 20 INCH MONITOR

Take off the SERVICE DOOR (GLC-1028) from the front portion of the HOOD.

It can be removed by taking off the 8 TAMPERPROOF SCREWS (M4 X 12).

This enables the monitor to be adjusted.

SERVICE DOOR



- ① V. HOLD
- ② V. SIZE
- ③ V. POSI
- ④ H. HOLD
- ⑤ H. SIZE
- ⑥ H. POSITION
- ⑦ BRIGHT
- ⑧ B. GAIN
- ⑨ G. GAIN
- ⑩ R. GAIN

## 21. PERIODICAL INSPECTION

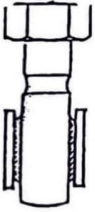
Periodical greasing of the mobile parts are required.

Apply grease in accordance with the following instructions:  
Normally, replacement once in 2 months is recommended.

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

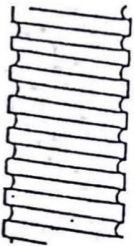
### Ⓐ ROD END

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.

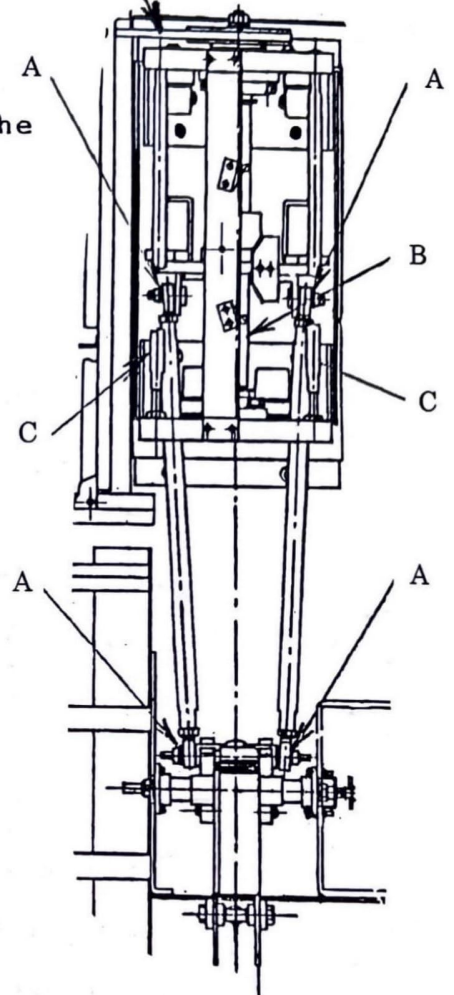


### Ⓒ ADJUST SHAFT

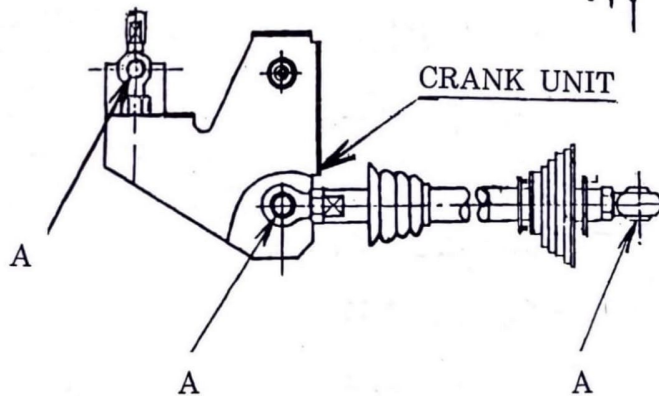
Apply grease to the ADJUST SHAFT



MECHANISM UNIT



CRANK UNIT



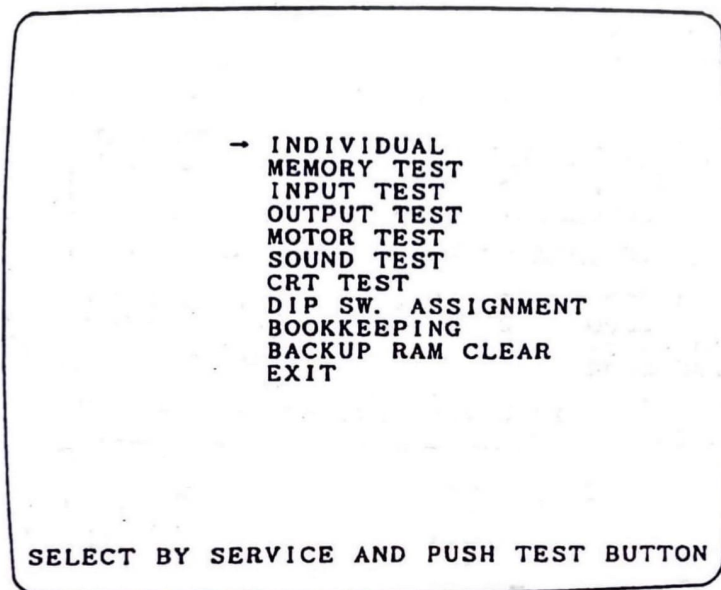
When lubricating, so as not to cause any malfunction, make sure  
that no foreign matter such as dust, etc. gets into the grease.

## 22. TEST MODE

This test mainly checks the operation of the game PCB's, discovers defects if any, and also enables the monitor colors to be adjusted and the audio to be checked, etc.

### 1. Selection of TEST ITEMS

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



- (2) By pushing the SERVICE button, 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.

## 2. MEMORY TEST

Checks 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					
**ROMS TEST**					
IC. 24	GOOD	IC. 26	GOOD	IC. 53	GOOD
IC. 25	GOOD	IC. 27	GOOD	IC. 54	GOOD
IC. 80	GOOD				
IC. 81	GOOD				
**RAMS TEST**					
IC. 28	GOOD	IC. 55	GOOD	IC. 82	GOOD
IC. 29	GOOD	IC. 56	GOOD	IC. 83	GOOD
IC. 84	GOOD	IC. 86	GOOD		
IC. 85	GOOD	IC. 87	GOOD		
**VIDEO BOARD RAMS TEST**					
IC. 3	GOOD	IC. 27	GOOD	IC. 29	GOOD
IC. 4	GOOD	IC. 28	GOOD	IC. 30	GOOD
IC. 104	GOOD				
IC. 105	GOOD				
PUSH TEST BUTTON					

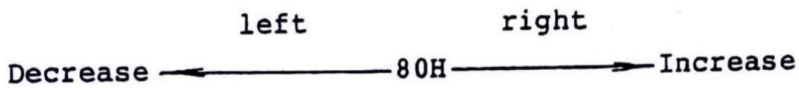
## 3. INPUT TEST

Indicates the condition of each switch and POTENTIOMETER.

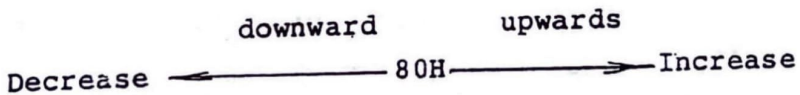
INPUT TEST			
COIN #1	OFF	TEST	OFF
COIN #2	OFF	SERVICE	OFF
VULCAN	OFF	MISSILE	OFF
BURNER	OFF	START	OFF
STICK RIGHT LEFT		ⓐ	80H
STICK UP DOWN		ⓑ	80H
SPEED		ⓒ	30H
PUSH TEST BUTTON			

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.

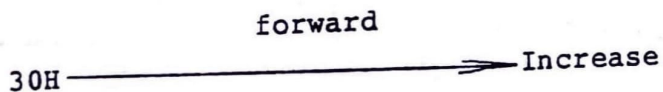
② It is satisfactory if data values increase when the handle grip is moved to the right, decrease when it is moved to the left, and indicate "80H" when released.



③ It is satisfactory if data values increase when the handle grip is moved upward, decrease when it is moved downward, and indicate "80H" when released.

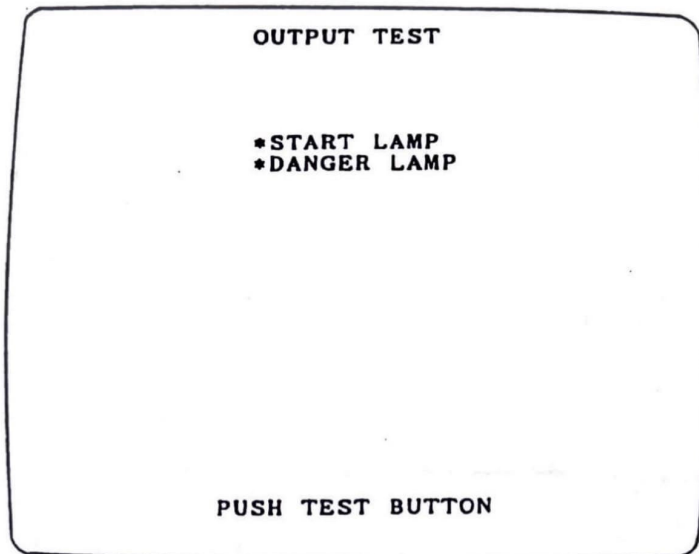


④ It is satisfactory if the data values increase when the THROTTLE LEVER is moved forward and indicate "30H" when released.

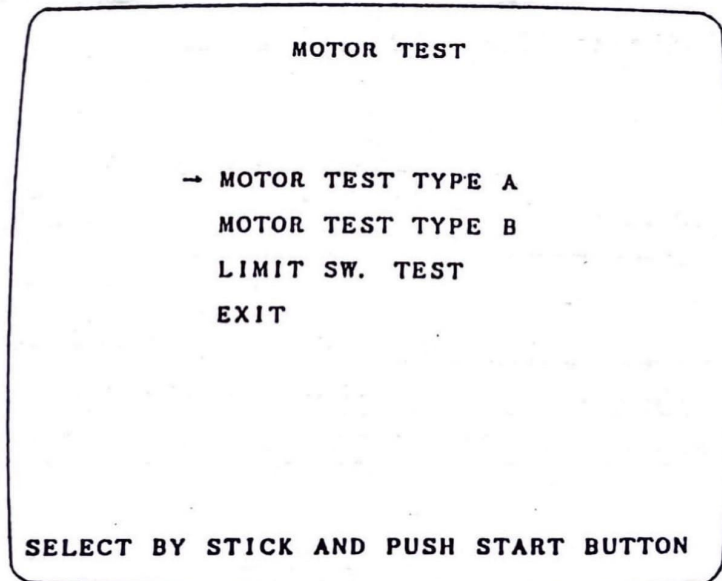


#### 4. OUTPUT TEST

THE START LAMP and DANGER LAMP will flash.



#### 5. MOTOR TEST



Moving the handle causes the "→" to move.  
Bring the "→" to the desired item and press the START  
button.



### (1) . MOTOR TEST TYPE A

The cabinet can be moved by using the handle grip.

Select the desired motor speed by operating the handle grip's missile button.

By using the handle grip, press the VULCAN SW. to move the cabinet up to the position which was specified.

MOTOR TEST TYPE A		
MOTOR POWER	①	OFF
MOTOR LEVEL	②	00H
MOTOR POSITION	CODE	VOLUME
RIGHT	③ 2FH	④ 80H
LEFT	⑤ 3FH	⑥ 80H
MOTOR POWER ON.....VULCAN SW.		
POWER LEVEL SELECT...MISSILE SW.		
PUSH START BUTTON		

① Press the Vulcan SW. to cause the display to go "ON," and the cabinet will start to move.

② Motor Speed Can be selected from among the 8 levels (00H~07H).

③ This is the Communications Code to drive the right-hand motor. By moving the handle,

if the value varies, it is satisfactory.

④ Present position of the right-hand motor (the right-hand V.R. value)

⑤ This is the Communications Code to drive the left-hand motor. By moving the handle, if the value varies, it is satisfactory.

⑥ Present position of the left-hand motor (the left-hand V.R. value)

### (2) . MOTOR TEST TYPE B

MOTOR TEST TYPE B	
MOTOR POWER	OFF
MOTOR POWER ON.....VULCAN SW.	
PUSH START BUTTON	

Pressing the Vulcan SW. causes the cabinet to move up and down, thus enabling each part to be checked. If there is any malfunctioning, that particular portion will be displayed on the screen.

### (3)、LIMIT SW. TEST

LIMIT SW. TEST	
MOTOR POWER	OFF
RIGHT UPPER LIMIT SW	OFF
RIGHT LOWER LIMIT SW	ON
LEFT UPPER LIMIT SW	OFF
LEFT LOWER LIMIT SW	ON
MOTOR POWER ON.....VULCAN SW.	
PUSH START BUTTON	

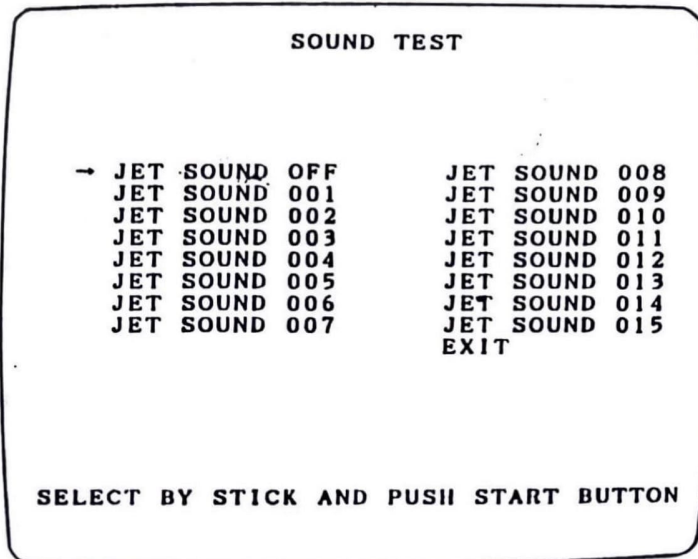
Press the Vulcan SW. to cause the cabinet to move up and down, thus enabling each limit switch to be checked.

### 6. SOUND TEST

Moving the handle causes the "→" to move.

Bring the "→" to the desired item and press the START button.

SOUND TEST	
→ JET LOW	VOICE 1
JET MIDDLE	VOICE 2
JET MIDDLE	VOICE 3
JET HIGH	VOICE 4
EFFECT 1	COUNT DOWN
EFFECT 2	BGM
EFFECT 3	
EFFECT 4	
SELECT BY STICK AND PUSH START BUTTON	

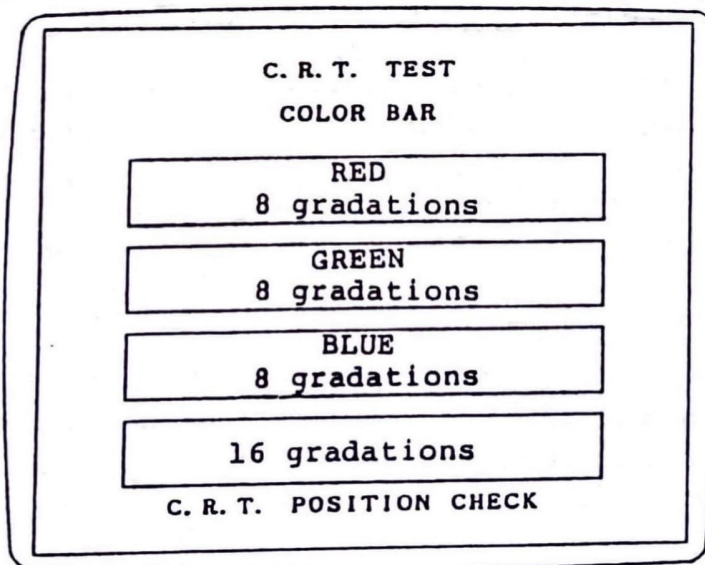


Press the START button to cause the next screen to appear. By using the handle, move the "→" and press the START button to perform the sound check.

Bring the "→" to "EXIT" and press the START button to return the screen to the previous one.

#### 7. CRT TEST

##### Monitor Adjustment Check



- ① 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 brighter from the right to the left.)
- ③ Brightness check  
[Becomes brighter from the right (black) to the left (white).]

## 8. DIP SW ASSIGNMENT

The following shows the assignment of DIP SW A and B.

DIP SWITCH ASSIGNMENT		
	1 2 3 4 5 6 7 8	
DIPSW. A	OFF OFF OFF OFF OFF OFF OFF OFF	
DIPSW. B	OFF OFF OFF OFF OFF OFF OFF OFF	
. A1234	COIN SW#1	1COIN 1CREDIT
. A5678	COIN SW#2	1COIN 1CREDIT
. B12	GAME DIFFICULTY	NORMAL
. B3	ADVERTISE SOUND	OFF
. B45	CABINET TYPE	MOVING
. B6	CONTINUE GAME	YES
. B78	INITIAL CREDIT	2CREDITS/GAME
	CONTINUE CREDIT	1CREDIT/GAME

DIP SW A : Setting the COIN SW

DIP SW B : Setting the game difficulty, etc.

For details, refer to DIP SWITCHES.

## 9. BOOKKEEPING

Displays such data as the number of game plays, game play time, etc. Push the SERVICE button to cause the following screen to appear :

BOOKKEEPING		(1/4)
COIN CHUTE #1	①	979
COIN CHUTE #2	②	0
COIN CREDITS	③	979
SERVICE CREDITS	④	1050
TOTAL CREDITS	⑤	2029
TOTAL TIME	⑥	97H38M16S
PUSH SERVICE BUTTON		

- ① Number of coins put in COIN CHUTE 1.
- ② Number of coins put in COIN CHUTE 2.
- ③ Number of coin credits.
- ④ Number of credits obtained by using the SERVICE SW.
- ⑤ Sum of ③ and ④
- ⑥ Total time during which the machine was energized.

BOOKKEEPING (2/4)

NUMBER OF GAMES ① 832

CONTINUE GAMES ② 0

GAME TIME

TOTAL ③ 49H27M33S

AVERAGE ④ 0H 3M34S

LONGEST ⑤ 0H25M21S

PUSH SERVICE BUTTON

Displays the data of all courses and each course.

Screen (2/4)

Total of all courses

Screen (3/4)

BEGINNER

MEDIUM

Screen (4/4)

EXPERT

BOOKKEEPING (3/4)

COURSE BEGINNER

NUMBER OF GAMES ① 0

CONTINUE GAME ② 0

TOTAL ③ 0H 0M 0S

AVERAGE ④ 0H 0M 0S

LONGEST ⑤ 0H 0M 0S

COURSE MEDIUM

NUMBER OF GAME ① 0

CONTINUE GAME ② 0

TOTAL ③ 0H 0M 0S

AVERAGE ④ 0H 0M 0S

LONGEST ⑤ 0H 0M 0S

PUSH SERVICE BUTTON

① Total number of game plays

② Total number of CONTINUE game plays

③ Total game play time

④ Average game play time

⑤ Longest game play time

BOOKKEEPING (4/4)

COURSE EXPERT

NUMBER OF GAME ① 0

CONTINUE GAME ② 0

TOTAL ③ 0H 0M 0S

AVERAGE ④ 0H 0M 0S

LONGEST ⑤ 0H 0M 0S

PUSH SERVICE BUTTON

## 10. BACKUP RAM CLEAR

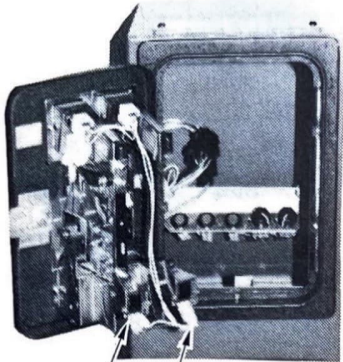
The BOOKKEEPING data can be cleared. When clearing, bring "→" to "YES" and when not clearing, to "NO," by using the SERVICE SW, and then push the TEST button

BACKUP RAM CLEAR

→ NO  
YES

SELECT BY SERVICE AND PUSH TEST BUTTON

# 23. DIP SWITCH SETTING



COIN SW #2  
COIN SW #1

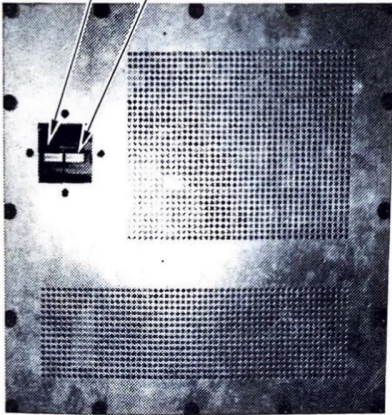
COIN/CREDIT OPTION SW. SETTING

DIP SW. A

		1	2	3	4	5	6	7	8
1 COIN	1 CREDIT	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
1 COIN	2 CREDITS	ON	OFF	OFF	OFF	ON	ON	OFF	OFF
1 COIN	3 CREDITS	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
1 COIN	4 CREDITS	ON	ON	OFF	OFF	ON	ON	OFF	OFF
1 COIN	5 CREDITS	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
1 COIN	6 CREDITS	ON	OFF	ON	OFF	ON	OFF	ON	OFF
2 COINS	1 CREDIT	OFF	ON	ON	OFF	OFF	ON	ON	OFF
3 COINS	1 CREDIT	ON	ON	ON	OFF	ON	ON	ON	OFF
4 COINS	1 CREDIT	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
2 COINS	3 CREDITS	ON	OFF	OFF	ON	ON	OFF	OFF	ON
2 COINS	1 CREDIT	OFF	ON	OFF	ON	OFF	ON	OFF	ON
4 COINS	2 CREDITS	ON	ON	OFF	ON	ON	ON	OFF	ON
5 COINS	3 CREDITS	ON	ON	OFF	ON	ON	ON	OFF	ON
6 COINS	4 CREDITS	ON	ON	OFF	ON	ON	ON	OFF	ON
2 COINS	1 CREDIT	ON	ON	OFF	ON	ON	ON	OFF	ON
4 COINS	3 CREDITS	ON	ON	OFF	ON	ON	ON	OFF	ON
1 COIN	1 CREDIT	OFF	OFF	ON	ON	OFF	OFF	ON	ON
2 COINS	2 CREDITS	ON	OFF	ON	ON	ON	OFF	ON	ON
3 COINS	3 CREDITS	ON	OFF	ON	ON	ON	OFF	ON	ON
4 COINS	4 CREDITS	ON	OFF	ON	ON	ON	OFF	ON	ON
5 COINS	6 CREDITS	ON	OFF	ON	ON	ON	OFF	ON	ON
1 COIN	1 CREDIT	OFF	ON	ON	ON	OFF	ON	ON	ON
2 COINS	2 CREDITS	ON	OFF	ON	ON	ON	OFF	ON	ON
3 COINS	3 CREDITS	ON	OFF	ON	ON	ON	OFF	ON	ON
4 COINS	5 CREDITS	ON	OFF	ON	ON	ON	OFF	ON	ON
1 COIN	1 CREDIT	OFF	ON	ON	ON	OFF	ON	ON	ON
2 COINS	3 CREDITS	ON	ON	ON	ON	ON	ON	ON	ON
NOT USED		ON	ON	ON	ON	ON	ON	ON	ON
		COIN SW #1				COIN SW #2			

DIP SW. A

DIP SW. B



GAME OPTION SW. SETTING

DIP SW. B

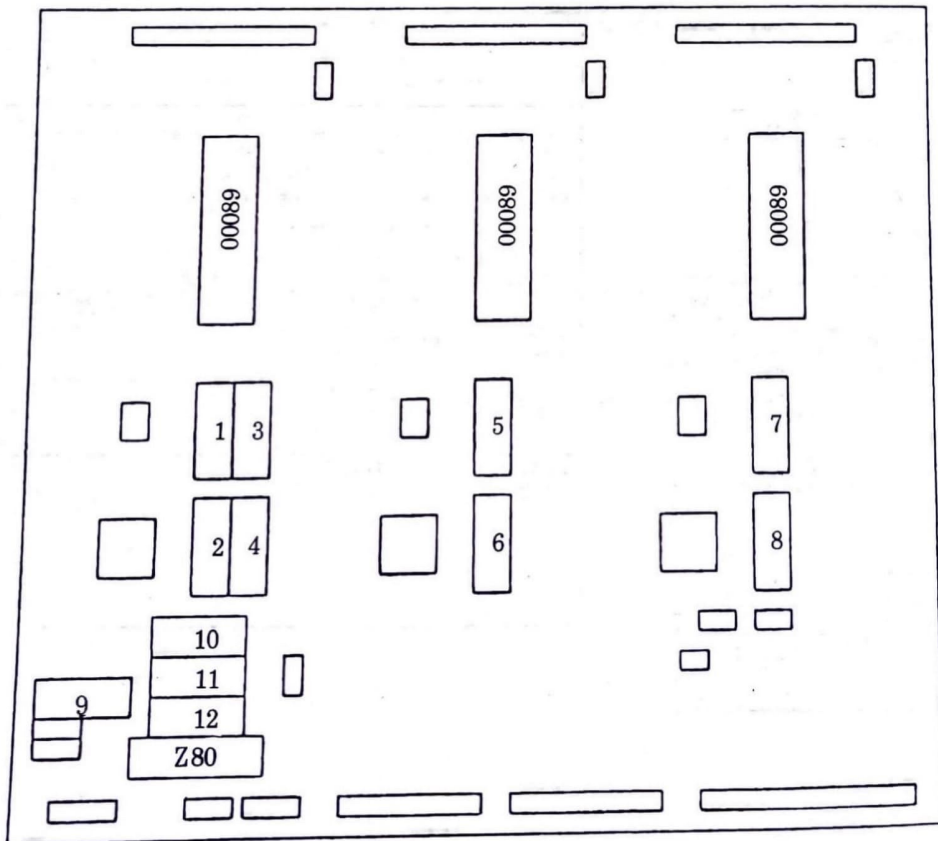
		1	2	3	4	5	6	7	8
GAME DIFFICULTY	NORMAL	OFF	OFF						
	EASY	ON	OFF						
	HARD	OFF	ON						
	HARDEST	ON	ON						
ADVERTISE SOUND	OFF			OFF					
	ON			ON					
CABINET TYPE	MOVING				OFF	OFF			
	COCKPIT				ON	OFF			
	UPRIGHT				OFF	ON			
CONTINUE GAME	YES							OFF	
	NO							ON	
INITIAL CREDIT	CONTINUE CREDIT								
	2							OFF	OFF
	3							ON	OFF
	1							OFF	ON
	4							ON	ON

## 24. ROM LOCATIONS

(1) 834 - 7300 - ~ GAME BD G-L.O.C.

FOR U.S.A.			FOR EUROPE & ASIA		
834-7300-03	837-7301-01	CPU BD	834-7300-06	837-7301-02	CPU BD
	837-7302	VIDEO BD		837-7302	VIDEO BD
834-7300-04	837-7301-01	CPU BD	834-7300-07	837-7301-02	CPU BD
	837-7403	VIDEO BD		837-7403	VIDEO BD
834-7300-05	837-7301-01	CPU BD	834-7300-08	837-7301-02	CPU BD
	837-7402	VIDEO BD		837-7402	VIDEO BD

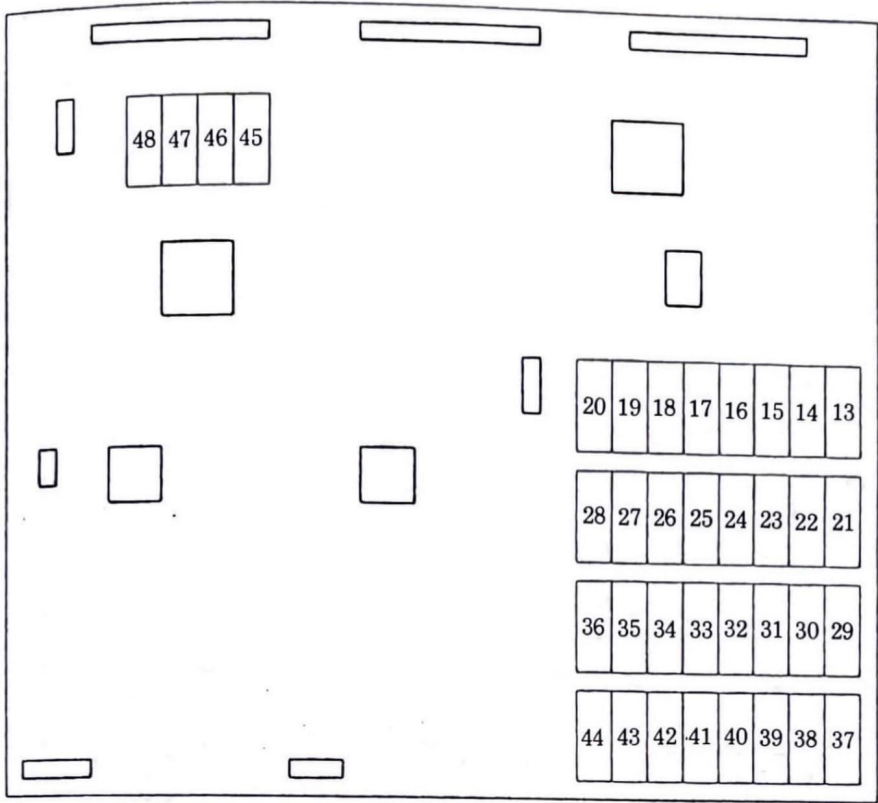
837 - 7301 CPU BD G-L.O.C.





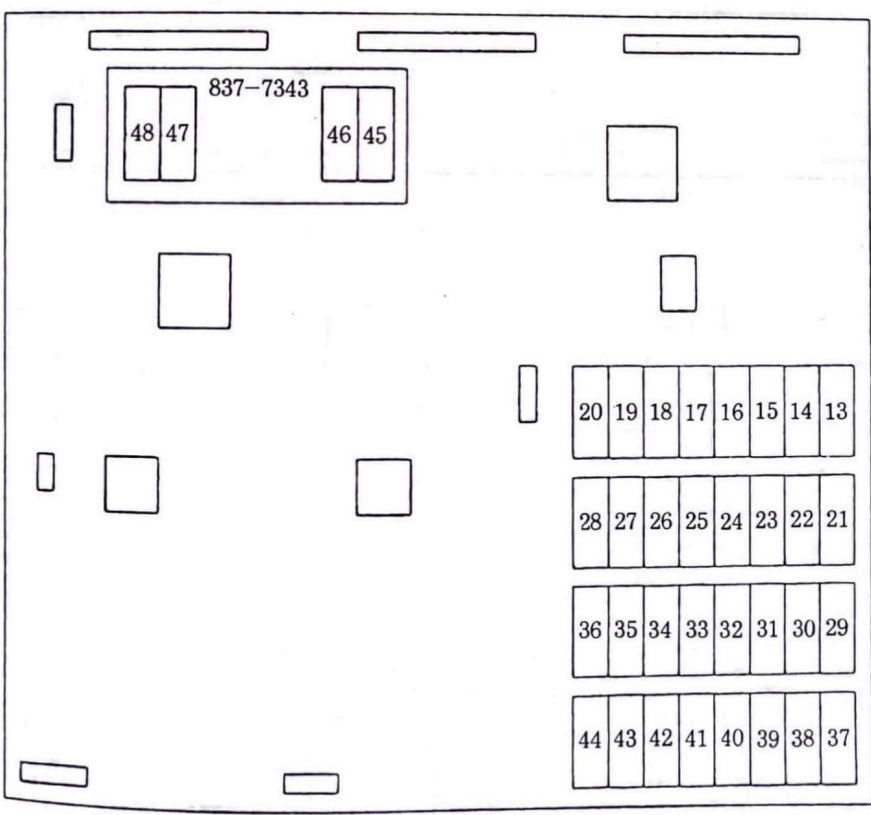
837 - 7302

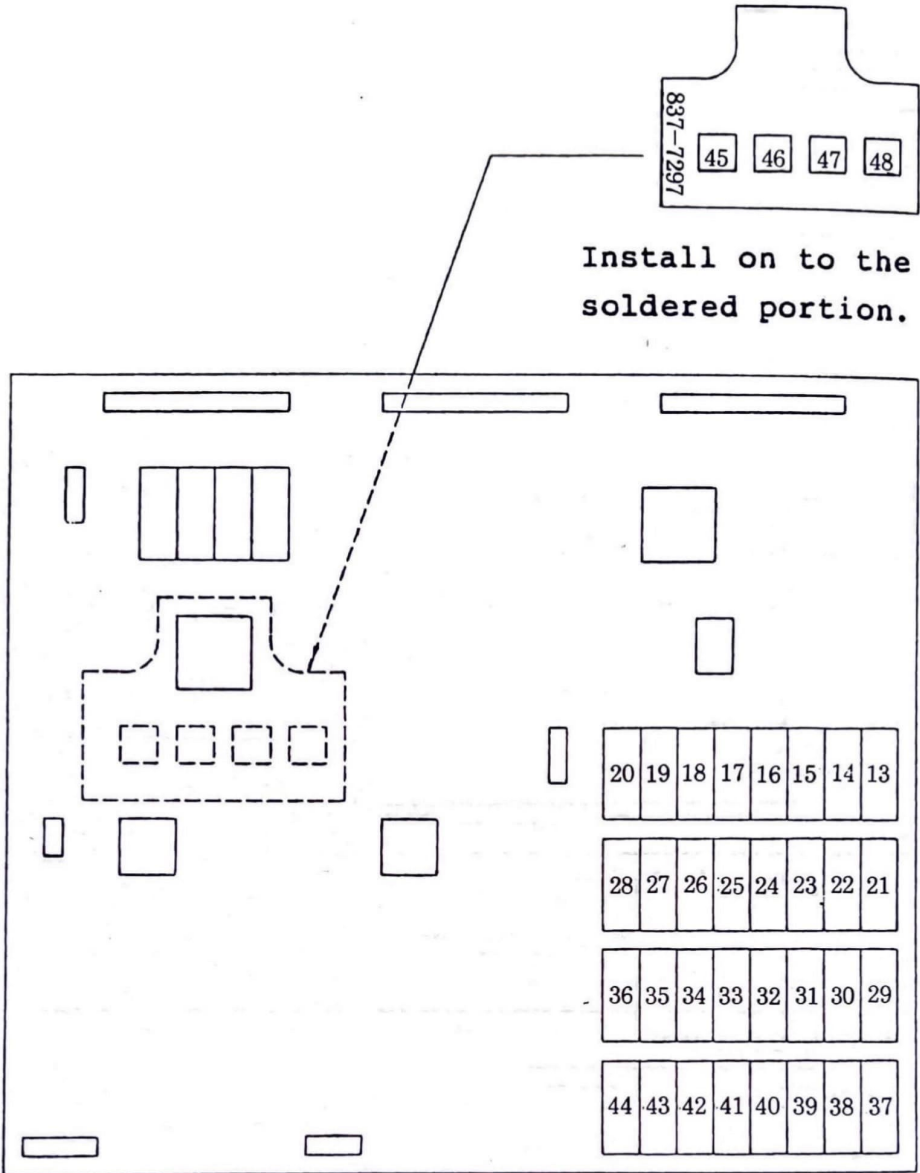
VIDEO BD G-L.O.C.



837 - 7402

VIDEO BD G-L.O.C.





\* This machine utilizes a game board comprised of the 837-7301 CPU BD and either one of the above-mentioned 3 video BDs.

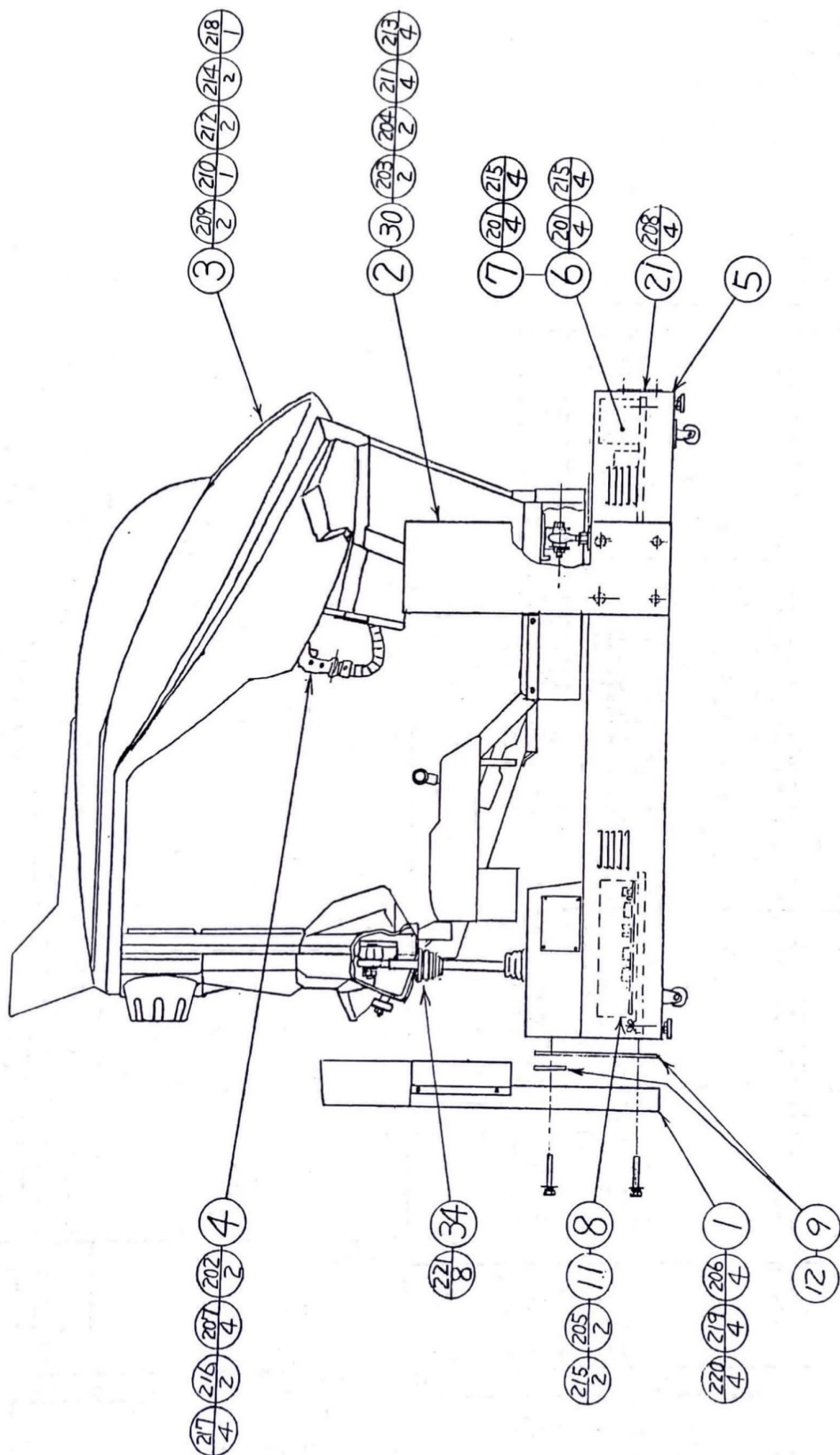
834-7301--			CPU BD			
IC LOCATION			ROM NUMBER	MAIN WORK		
1	IC	24	EPR - 13169	MAIN PROGRAM FOR U.S.A.	1 M	834 7301-01
2	IC	25	EPR - 13170		1 M	
1	IC	24	EPR - 13171	MAIN PROGRAM FOR EXPORT	1 M	834 7301-02
2	IC	25	EPR - 13172		1 M	
3	IC	26	EPR - 13027	MAIN PROGRAM	1 M	COMMON USAGE
4	IC	27	EPR - 13028		1 M	
5	IC	53	EPR - 13029		1 M	
6	IC	54	EPR - 13030		1 M	
7	IC	80	EPR - 13031		1 M	
8	IC	81	EPR - 13032		1 M	
9	IC	102	EPR - 13033		1 M	
10	IC	105	MPR - 13034		SOUND PROG	
11	IC	106	MPR - 13035	SOUND DATA	4 M	
12	IC	107	MPR - 13036		4 M	

			VIDEO BD					
13	IC	60	MPR - 13041	OBJECT	4 M	837-7403 COMMON USAGE		
14	IC	61	MPR - 13042		4 M			
15	IC	62	MPR - 13043		4 M			
16	IC	63	MPR - 13044		4 M			
17	IC	64	MPR - 13045		4 M			
18	IC	65	MPR - 13046		4 M			
19	IC	66	MPR - 13047		4 M			
20	IC	67	MPR - 13048		4 M			
21	IC	68	MPR - 13049		4 M			
22	IC	69	MPR - 13050		4 M			
23	IC	70	MPR - 13051		4 M			
24	IC	71	MPR - 13052		4 M			
25	IC	72	MPR - 13053		4 M			
26	IC	73	MPR - 13054		4 M			
27	IC	74	MPR - 13055		4 M			
28	IC	75	MPR - 13056		4 M			
29	IC	79	MPR - 13057		4 M			
30	IC	80	MPR - 13058		4 M			
31	IC	81	MPR - 13059		4 M			
32	IC	82	MPR - 13060		4 M			
33	IC	83	MPR - 13061		4 M			
34	IC	84	MPR - 13062		4 M			
35	IC	85	MPR - 13063		4 M			
36	IC	86	MPR - 13064		4 M			
37	IC	107	MPR - 13065		4 M			
38	IC	108	MPR - 13066		4 M			
39	IC	109	MPR - 13067		4 M			
40	IC	110	MPR - 13068		4 M			
41	IC	111	MPR - 13069		4 M			
42	IC	112	MPR - 13070		4 M			
43	IC	113	MPR - 13071		4 M			
44	IC	114	MPR - 13072		4 M			
45	IC	14	MPR - 13037		LINE OBJ		4 M	837- 7302
46	IC	15	MPR - 13038				4 M	
47	IC	16	MPR - 13039				4 M	
48	IC	17	MPR - 13040				4 M	
837-7297			FLAT PIGGY					
45	IC	1	MPR - 13037 - F		LINE OBJ		4 M	837- 7403
46	IC	2	MPR - 13038 - F				4 M	
47	IC	3	MPR - 13039 - F				4 M	
48	IC	4	MPR - 13040 - F				4 M	
837-7343			PIGGY BD					
45	IC	14	MPR - 13037		LINE OBJ		4 M	837- 7402
46	IC	15	MPR - 13038				4 M	
47	IC	16	MPR - 13039	4 M				
48	IC	17	MPR - 13040	4 M				

25. PARTS LIST











① TOP ASSY G-L.O.C. DX. (GLC-0000)

(D-1/4)











① TOP ASSY G-L.O.C. DX. (GLC-0000)

(D-2/4)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	GLC-0001	ASSY PILLAR	
2	GLC-0500	ASSY COIN CHUTE TOWER	
3	GLC-1000	ASSY MONOCOQUE	
4	GLC-2000	ASSY CONTROLER	
5	GLC-3000	ASSY MECHANISM & BASE	
6	GLC-4000	ASSY PWR SPLY DX.	
7	GLC-4100	ASSY MOTOR DRIVER	
8	GLC-0002	ASSY SHIELD CASE	
9	GLC-0010	ADJUST PLATE A	
10	420-5935-03	OWNERS MANUAL DX. G-LOC DX. ENG.	
			
	834-7300-03 04 05	GAME BD G-LOC FOR USA	
	834-7300-06 07 08	GAME BD G-LOC FOR EXPORT	
12	GLC-0011	ADJUST PLATE B	
13	SGM-2675	POLYETHYLENE BAG 240×370	
14	SGM-3901	POLYETHYLENE COVER 1100×1750×1700	
15			
16	421-6594	STICKER SERIAL NO. INFO	
17	421-6709	STICKER SERVICE INSTR ENG	
18	421-6671	STICKER DANGER HIGH VOLTAGE	
19			
20			
21	117-5111	PLATE. ELEC. SPEC.	
22	421-5800-121	ORIGINAL SEAL G-LOC	
	1027	SCHEMATIC DIAGRAM SEGA G-LOC DX	

① TOP ASSY G-L.O.C. DX. (GLC-0000)

(D-3/4)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
23	421-6642-91	ADJUST INSTR SH COLOR DISPLAY	
24	421-7669	ADJUST INSTR SH G-LOC DX.	
25	421-7670-06	STICKER APPLICATION UTILITY	
26	421-6241	STICKER DANGER ENG	
27	422-7010-01	STICKER CAUTION ENG	
28	220-5254	KEY MASTER FOR 220-5253	
29	SGB-1035X	KEY BAG	
30	422-0338-01	PLAY INSTR SH G-LOC DX ENG	
31	421-7677-01	STICKER SELECT THE COURSE ENG	
32			
33	429-0042	DISDLAY BOARD G-LOC	
34	GLC-0016	BOOT HOLDER	
35	421-7681-01	STICKER CONTINUE ENG	
201	000-0525-S	M SCR PH W/S M5×25	
202	029-0079	TMP PRF SCR TH M6×35	
203	030-0830	HEX BLT M8×30	
204	030-0850	HEX BLT M8×50	
205	032-0520	WNG BLT M5×20	
206	039-0039	HEX BLT BLK M10×80	
207	039-0098	HEX BLT BLK W/S M8×35	
208	047-0001	RVT OPEN TYPE 3.2×4.4	
209	050-0010	HEX NUT M10	
210	059-0054	HEX NUT P=1.5 #1 M22	
211	060-0008	FLT WSHR M8	
212	060-0010	FLT WSHR M10	
213	061-0008	SPR WSHR M8	

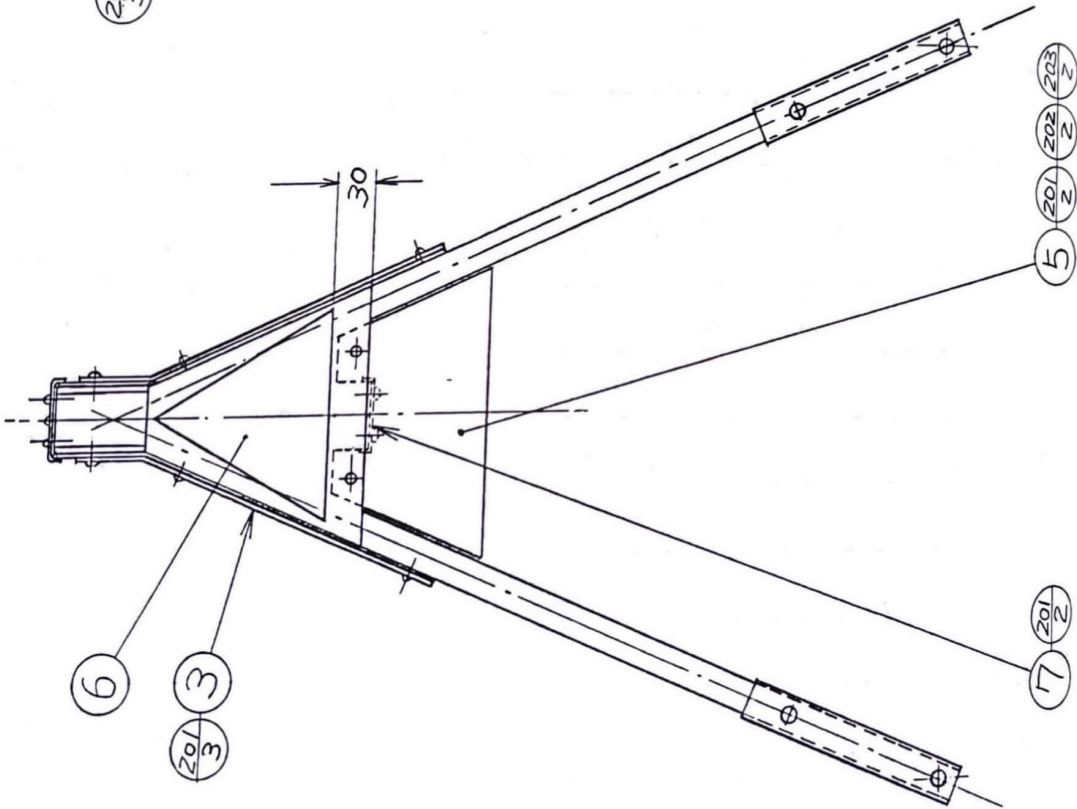
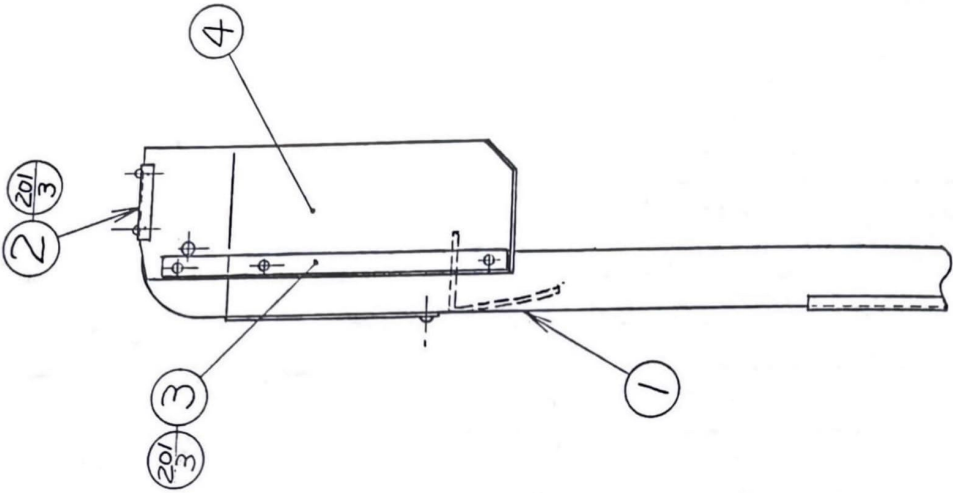
① TOP ASSY G-L.O.C. DX. (GLC-0000)

(D-4/4)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
214	061-0010	SPR WSHR M10	
215	069-0001	FLT WSHR 5.5-20×1.6	
216	069-0035	FLT WSHR BLK M6	
217	069-0048	FLT WSHR BLK 8.5×22×1.6	
218	069-0059	SPR WSHR M22	
219	069-0061	FLT WSHR BLK M10	
220	069-0063	SPR WSHR BLK M10	
221	029-0272	M SCR FH BLK M4×16	

② ASSY PILLAR (GLC-0001)

(D-1/2)

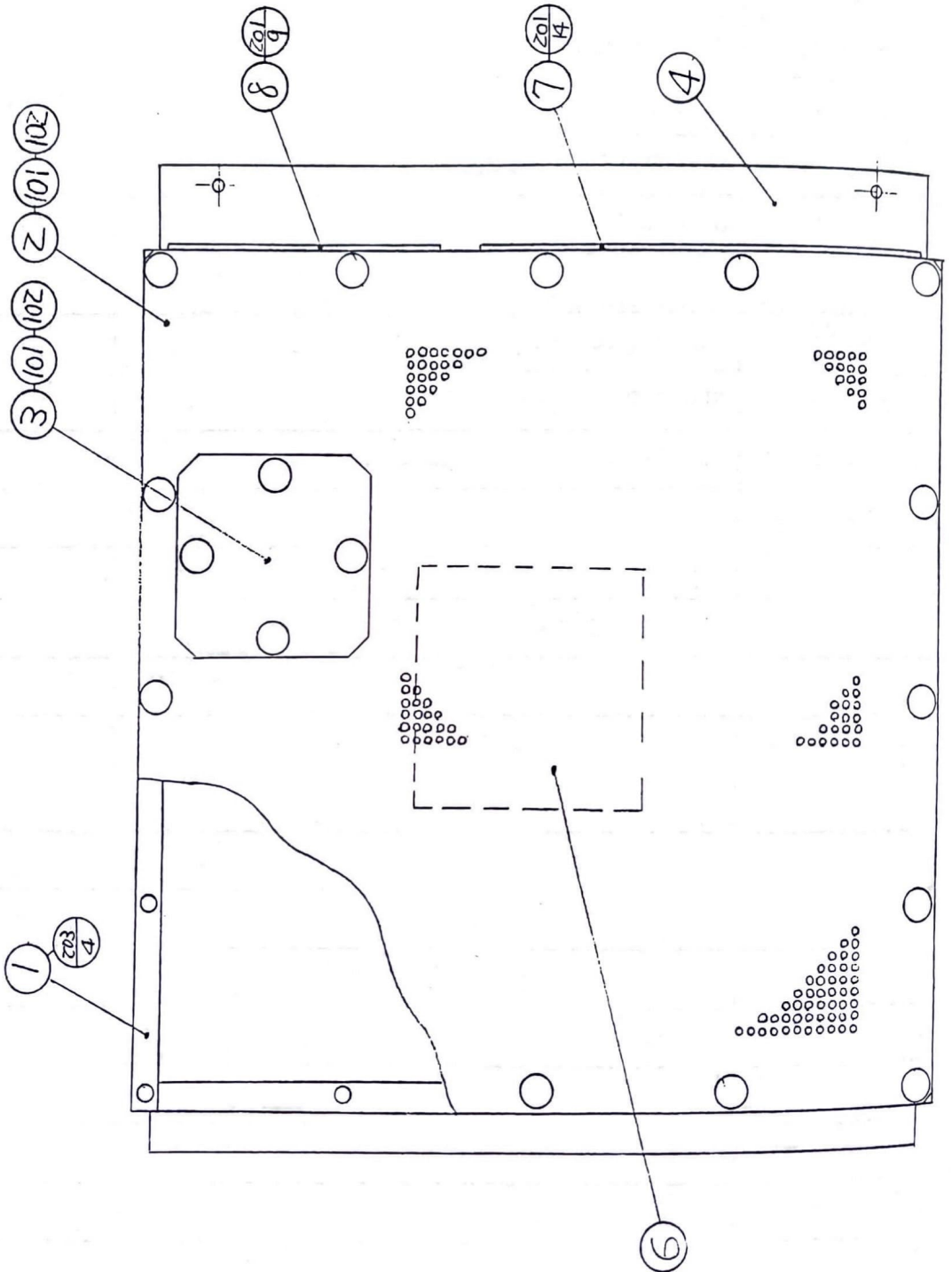






③ ASSY SHIELD CASE (GLC-0002)

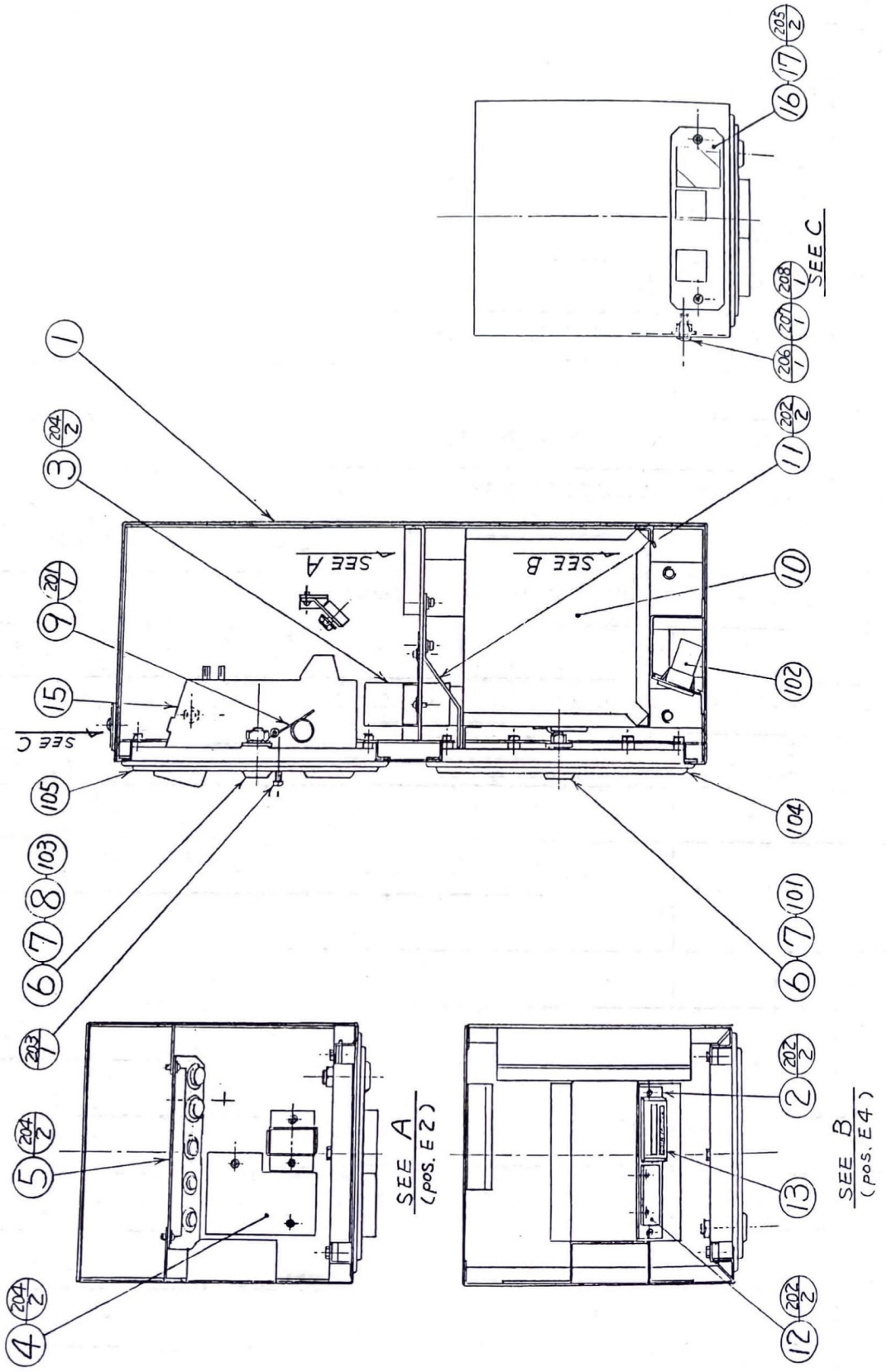
(D-1/2)






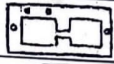

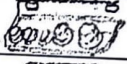














④ ASSY COIN CHUTE TOWER (GLC-0500)

(D-1/3)



④ ASSY COIN CHUTE TOWER (GLC-0500)

(D-2/3)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	GLC-0501	COIN CHUTE TOWER	
2	GLC-0502	COIN METER PLATE	
3	GLC-0503	COIN CHUTE LOWER	
4			
5	GLC-0505	SW UNIT	
6	DP-1167	TNG LKG	
7	HN-1050	SPACER RING	
8			
9	109-0045	KEY HOLDER	
10	KR-1607X	CASH BOX	
11	KR-1608	LOCK BRACKET	
12			
13	421-6591-01	STICKER COIN METER	
14			
15	421-7501-02	STICKER 6.3V 0.15A	
16	KR-1403	DENOMINATION PLATE	
17	MX-1103	DENOMINATION SHEET	
	MX-1103	DENOMINATION SHEET	
101	220-5046-91	MAGNETIC LOCK W/KEY	
102	220-5064	MAG CNTR 6 DIG DC5V	
103	220-5253	MAGNETIC LOCK MASTER W/O KEY	
104	220-5220	CASH BOX DOOR	
105	220-5282	ASSY COIN CHUTE DOOR	
106	601-0460	TIE BELT 85mm	
107	280-0425	CORD CLAMP $\phi$ 10	

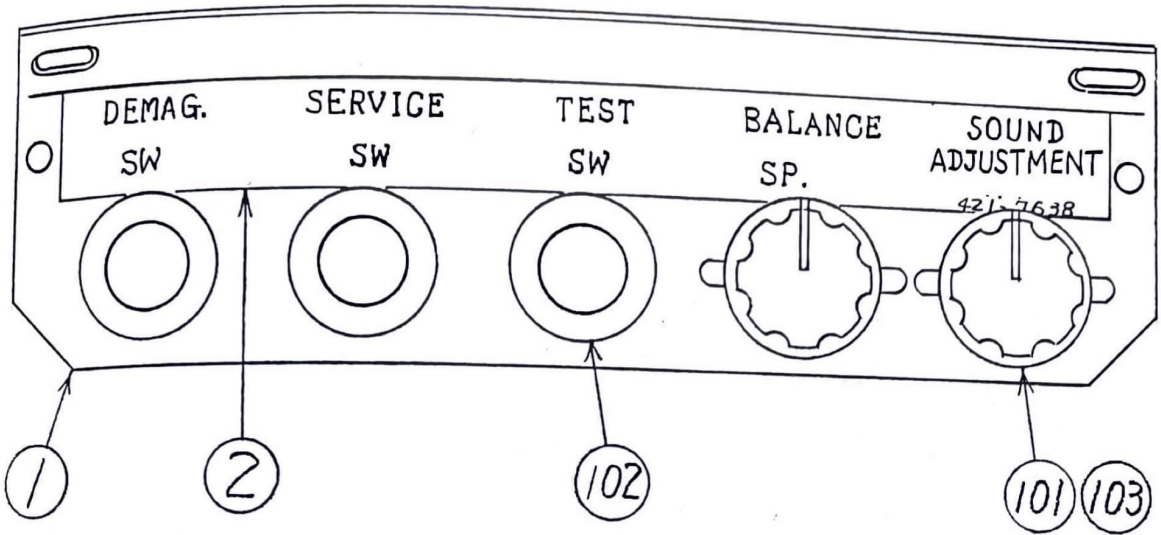
④

ASSY COIN CHUTE TOWER (GLC-0500)

(D-3/3)

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

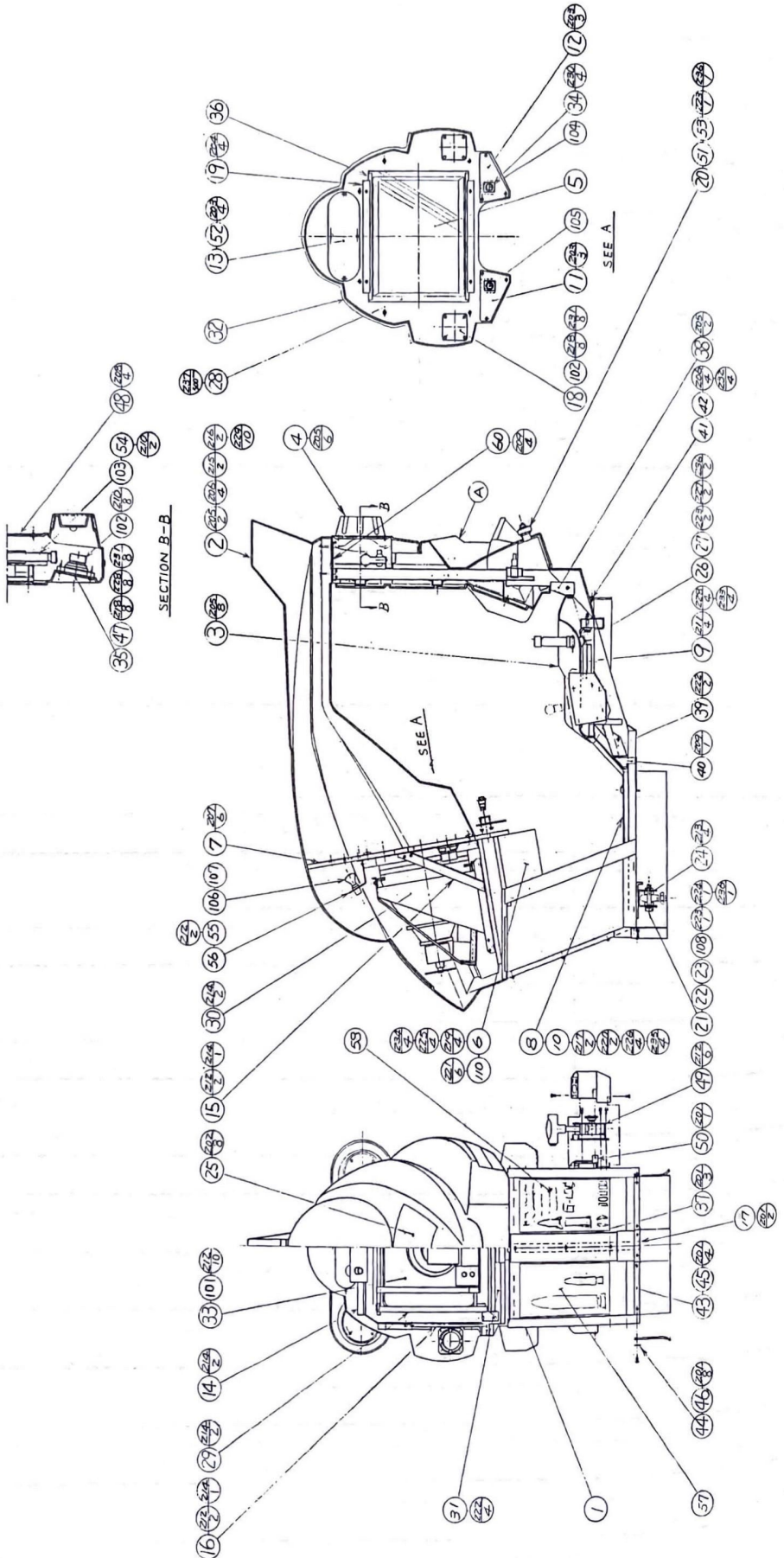
⑤ SW UNIT (GLC-0505)



ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	KR-1405	SW BRACKET	
2	421-7638	STICKER SW UNIT	
101	220-5179	VOL CONT B-5K OHM	
102	509-5028	SW PB 1 M	
103	601-0042	KNOB 22mm	

⑥ ASSY MONOCOQUE (GLC-1000)

(D-1/6)















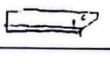
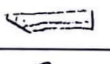


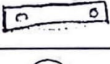



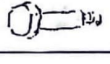


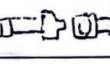




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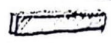






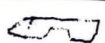

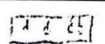




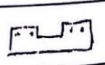






ASSY MONOCOQUE (GLC-1000)

(D-2/6)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	GLC-1001	SHASSIS	
2	GLC-1002	HOOD	
3	GLC-1003	SEAT	
4	GLC-1004	ASSY SEAT	
5	GLC-1008	FRONT GLASS	
6	GLC-1009	ASSY MONITOR BASE	
7	GLC-1010	FRONT PANEL	
8	GLC-1011	FLOOR BASE	
9	GLC-1012	SEAT BASE	
10	GLC-1013	FLOOR MAT	
11	GLC-1014-01	DESIGN PLATE L ENG	
12	GLC-1015	DESIGN PLATE R	
13	GLC-1016	LAMP COVER	
14	GLC-1017	PANEL SUPPORT	
15	GLC-1018	SUPPORT BRACKET L	
16	GLC-1019	SUPPORT BRACKET R	
17	GLC-1020	PROTECTOR CENTER	
18	GLC-1021	SP COVER	
19	GLC-1022	GLASS HOLDER	
20	GLC-1023	GUIDE ROLLER	
21	GLC-1024	SPACER A	
22	GLC-1025	SPACER B	
23	GLC-1026	SHOULDER SCREW	
24	GLC-1027	STUD	
25	GLC-1028	SERVICE DOOR	
26	RH-1104	SEAT BELT	








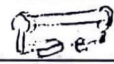






⑥ ASSY MONOCOQUE (GLC-1000)

(D-3/6)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
27	TX-1050	SHOULDER SCREW	
28	TB-3003	TV MASK 20	
29	SLC-1074	BRACKET MONITOR 20" R	
30	SLC-1075	BRACKET MONITOR 20" L	
31	J1-1025	SUPPORT BRACKET	
32	GLC-1029	PACKING	
33	TY-1019X	BRACKET TV	
34	117-5164	START PLATE 37×42	
35	KR-1013	GUARD PLATE $\phi$ 137	
36	GLC-1030	EDGE	
37	GLC-1031	WIRE COVER A	
38	GLC-1032	WIRE COVER B	
39	GLC-1033	WIRE COVER C	
40	GLC-1034	WIRE COVER D	
41	GLC-1035	SKIRT REAR	
42	GLC-1036	PROTECTOR REAR	
43	GLC-1037	PROTECTOR FRONT	
44	GLC-1038	PROTECTOR SIDE	
45	GLC-1039	SKIRT FRONT	
46	GLC-1040	SKIRT SIDE	
47	GLC-1041	BAFFLE BOARD	
48	GLC-1042	BILLBOARD PLATE DX	
49	GLC-2100	ASSY THROTTLE	
50	GLC-1043	BRACKET COVER	
51	GLC-1044	SPACER RING	
52	GLC-1045	SPECIAL WASHER 4.2-10×1	

⑥ ASSY MONOCOQUE (GLC-1000)

(D-4/6)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
53	GLC-1046	SPECIAL WASHER 10.2-40×2	
54	421-7501-15	STICKER FL 10W	
55	421-7501-03	STICKER 110V 10W	
56	GLC-1540	LAMP BRACKET C	
57	421-7673	STICKER MISSILES	
58	421-7674	STICKER AMMUNITION	
60	GLC-1048	HOOD BRACKET	
101	200-5090	ASSY CLR DSPL 20 TYPE 100V	
	200-5095	ASSY CLR DSPL 20 TYPE 100V	
102	130-5051	SPEAKER 16Ω 10W ϕ90	
103	390-5276-10-02	ASSY FL UNIT 10W SD	
104	509-5218	PUSH BUTTON SWITCH IT YELLOW W/L AMD	
105	509-5329	PUSH BUTTON SW 1T RED	
106	390-5157	LAMP 110V 10W	
107	214-0111	LAMP SOCKET W/WIRE	
108	111-0019	ROD END ϕ22	
110	280-5008	CORD CLAMP ϕ15	
111	601-6476	FREE BUSH 6.2t	
201	008-0410	TMP PRF SCR TH M4×10	
202	008-0412	TMP PRF SCR TH M4×12	
203	008-0420	TMP PRF SCR TH M4×20	
204	008-0430	TMP PRF SCR TH M4×30	
205	008-0510	TMP PRF SCR TH M5×10	

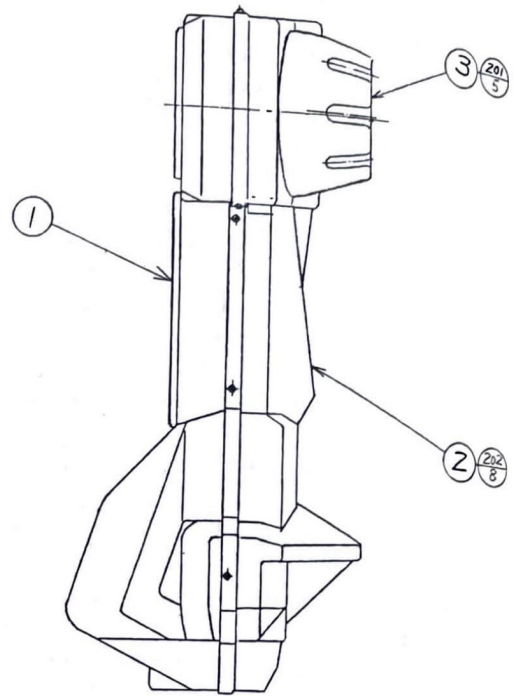
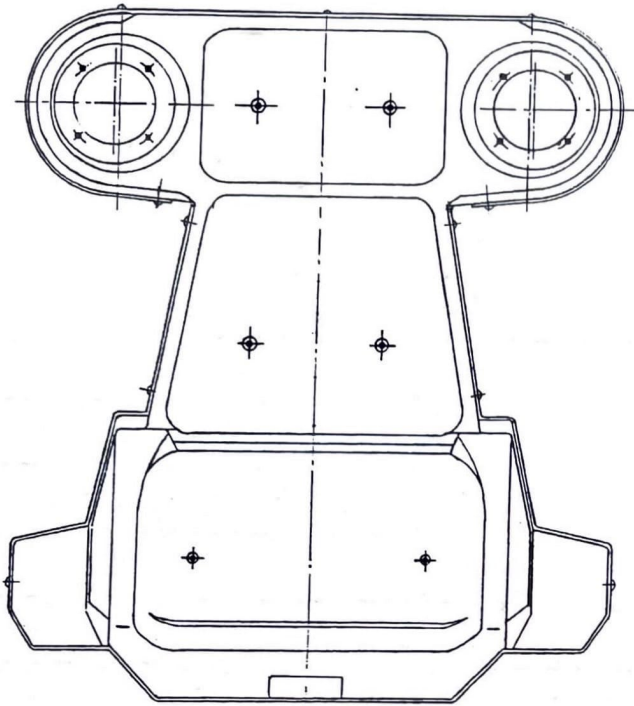
⑥ ASSY MONOCOQUE (GLC-1000)

(D-5/6)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
206	008-0520	TMP PRF SCR TH M5×20	
207	008-0525	TMP PRF SCR TH M5×25	
208	029-0119	TMP PRF SCR TH CHROME M4×12	
209	000-0410-FS	M SCR PH W/FS M4×10	
210	000-0416-FS	M SCR PH W/FS M4×16	
211	000-0425	M SCR PH M4×25	
212	000-0510-FS	M SCR PH W/FS M5×10	
213	000-0516-FS	M SCR PH W/FS M5×16	
214	000-0525-FS	M SCR PH W/FS M5×25	
215	029-0314	M SCR TH BLK M5×50	
216	029-0315	M SCR TH BLK M5×60	
217	029-0313	BTN HD SCR HEX SKT BLK M8×30	
218	031-0430-B	CRG BLT BLK M4×30	
219	030-0625	HEX BLT M6×25	
220	039-0037	HEX BLT BLK M8×30	
221	005-3113-F	W SCR RH W/F 3.1×13	
222	010-0408-F	S-TITE SCR PH W/F M4×8	
223	050-0010	HEX NUT M10	
224	059-0054	HEX NUT P=1.5 #1 M22	
225	060-0006	FLT WSHR M6	
226	060-0008	FLT WSHR M8	
227	060-0010	FLT WSHR M10	
228	069-0007	FLT WSHR 4.4-16×1.6	
229	069-0064	FLT WSHR BLK 5.5-20×1.6	
230	051-0003	FLG NUT M3	
231	051-0004	FLG NUT M4	

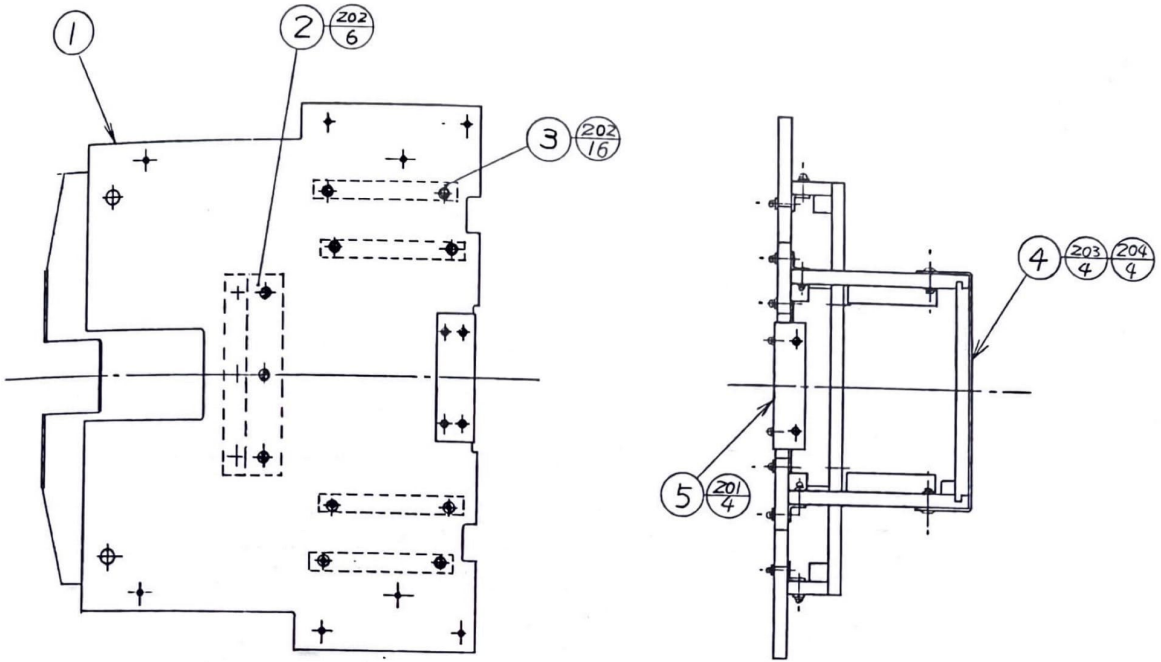


⑦ ASSY SEAT (GLC-1004)



ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	GLC-1005	SEAT FRONT	
2	GLC-1006	SEAT REAR	
3	GLC-1007	JET	
201	008-0412	TMP PRF SCR TH M4×12	
202	029-0119	TMP PRF SCR TH CHROME M4×12	

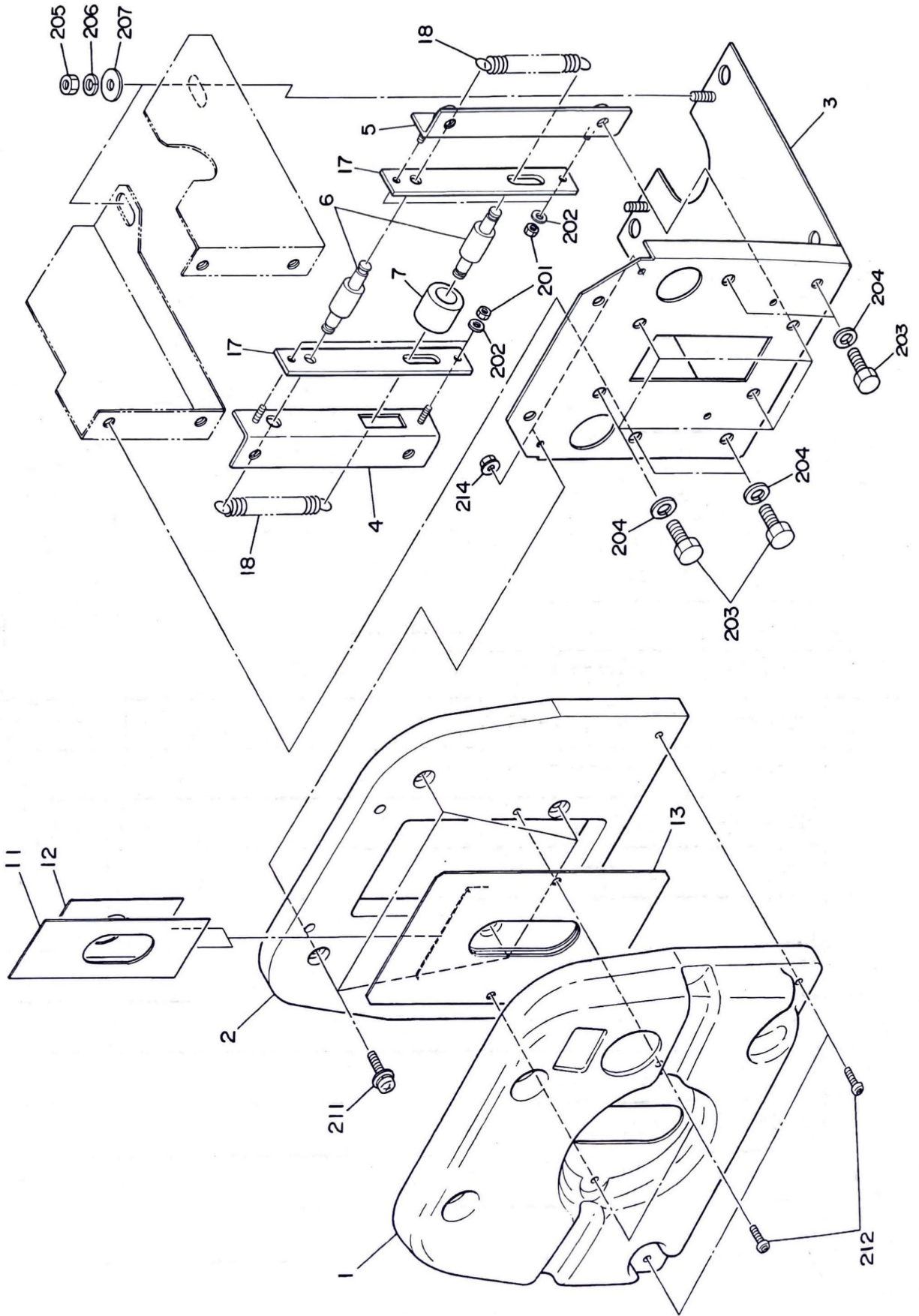
⑧ ASSY MONITOR BASE (GLC-1009)



ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	GLC-1009-A	MONITOR BASE	
2	GLC-1009-B	SUPPORT BRACKET A	
3	GLC-1009-C	SUPPORT BRACKET B	
4	GLC-1009-D	PROTECTOR	
5	TX-1040	BRACKET	
201	000-0420-S	M SCR PH W/S	M4×20
202	000-0525-FS	M SCR PH W/FS	M5×25
203	031-0525-B	CRG BLT BLK	M5×25
204	051-0005	FLG NUT	M5

⑨ ASSY CONTROLLER (GLC-2000)

(D-1/4)

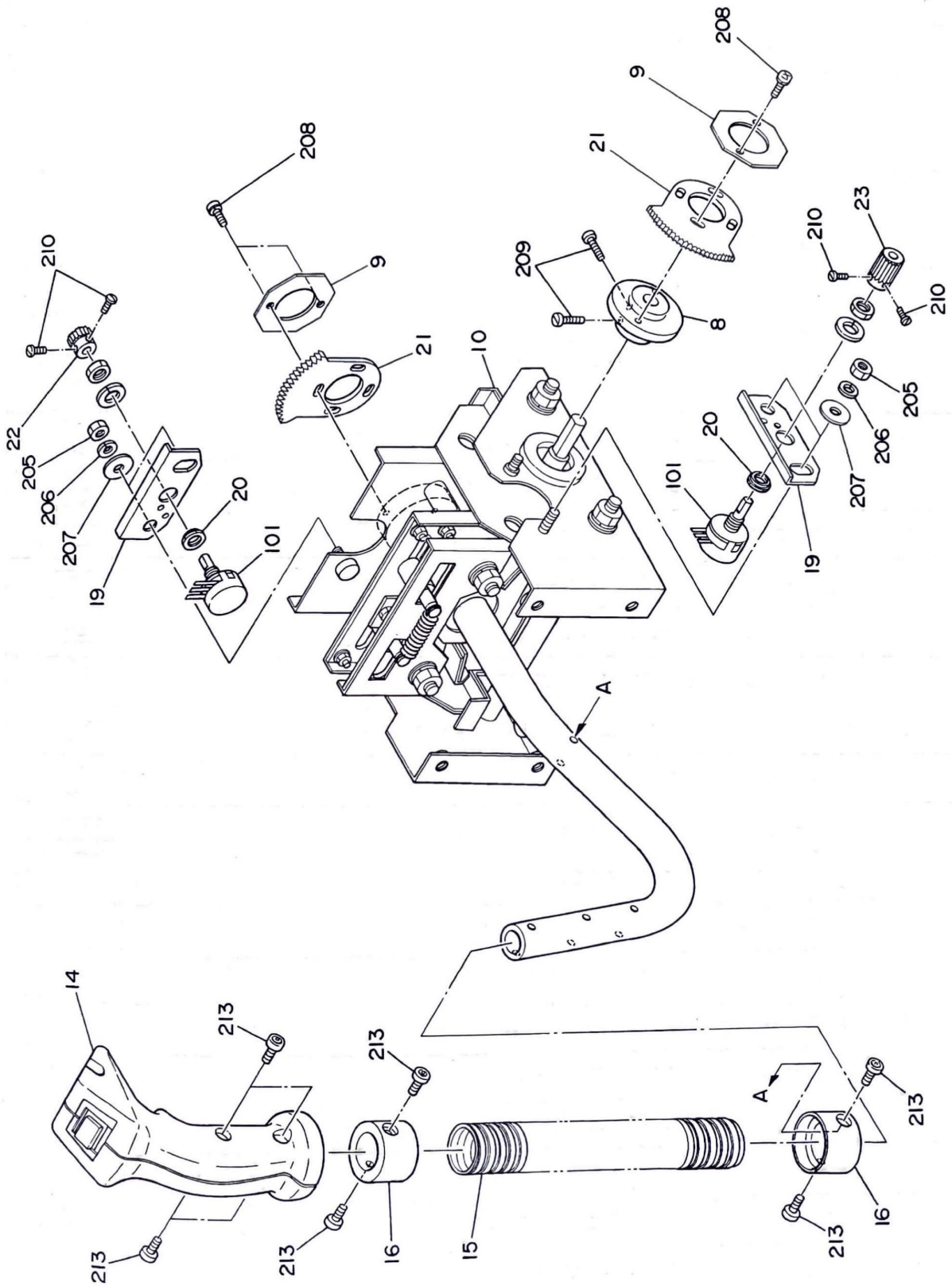




⑨

























# ASSY CONTROLLER (GLC-2000)

(D-2/4)



⑨ ASSY CONTROLLER (GLC-2000)

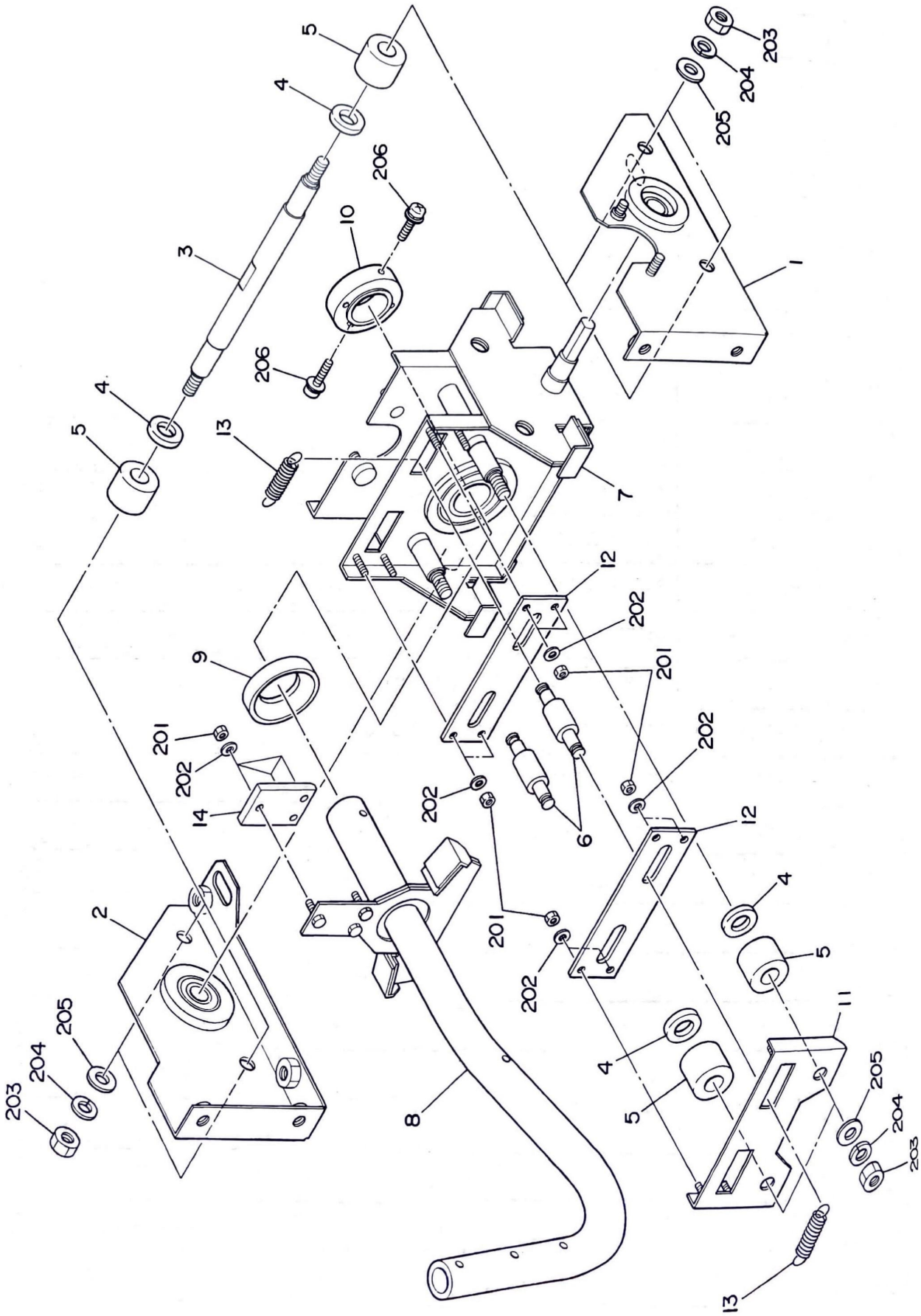
(D-3/4)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	GLC-2001	CONTROL PANEL	
2	GLC-2002	CONTROL PANEL BASE	
3	GLC-2003	MAIN BASE	
4	GLC-2009	LEFT PROTECTOR	
5	GLC-2010	RIGHT PROTECTOR	
6	GLC-2011	CENTERING SHAFT	
7	GLC-2012	CENTERING PIPE	
8	GLC-2013	GUIDE RING 46	
9	GLC-2014	SET PLATE	
10	GLC-2015	SUB ASSY CONTROLLER	
11	GLC-2021	SLIDE PLATE A	
12	GLC-2022	SLIDE PLATE B	
13	GLC-2023	PLATE HOLDER	
14	GLC-2030	ASSY HANDLE GRIP	
15	TX-1309	PROTECT TUBE	
16	TX-1310	HOLDER A	
17	TX-1327	SIDE PLATE	
18	TX-1330	EXT. SPRING	
19	GUN-2621	VOLUME BRACKET	
20	GUN-2623	VOLUME RING	
21	601-6450	GEAR 110	
22	601-6451	GEAR 20, L=14	
23	601-5410	GEAR 15, φ 6	
101	220-5130	VOL CONT B-5K OHM	
102	280-0425	CORD CLAMP φ 10	



⑩ SUB ASSY CONTROLLER (GLC-2015)

(D-1/2)



⑩

SUB ASSY CONTROLLER (GLC-2015)

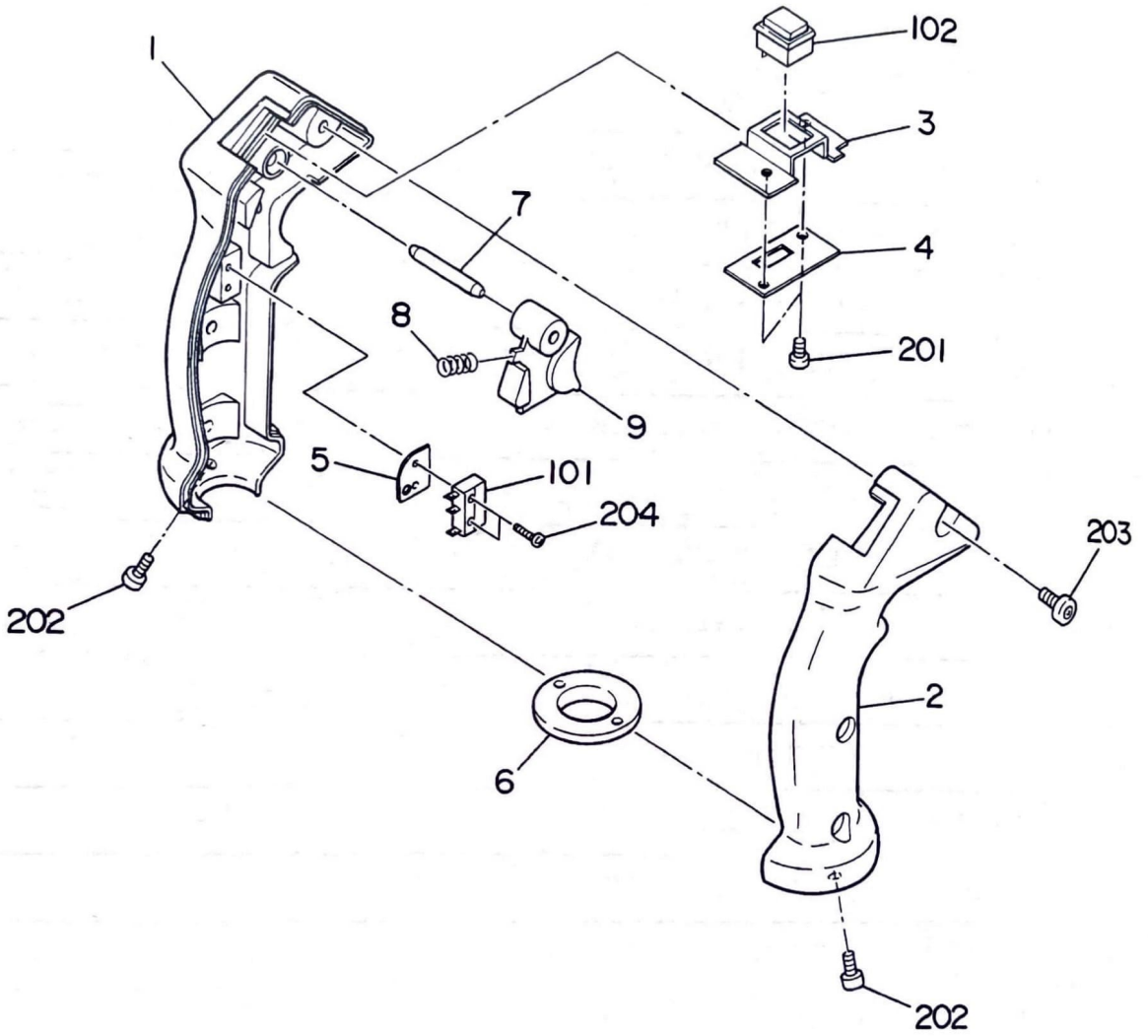
(D-2/2)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	GLC-2004	LEFT CASING	
2	GLC-2005	RIGHT CASING	
3	GLC-2006	STOPPER SHAFT	
4	GLC-2007	STOPPER RING	
5	GLC-2008	BUMPER	
6	GLC-2011	CENTERING SHAFT	
7	GLC-2016	MECHANISM CASING	
8	GLC-2017	HANDLE SHAFT	
9	GLC-2018	FRONT SPACER	
10	GLC-2019	REAR SPACER	
11	GLC-2020	FRONT PROTECTOR	
12	TX-1315	PLATE	
13	TX-1317	EXT. SPRING	
14	TX-1319	CENTER PLATE	
201	054-0004	U NUT M4	
202	060-0004	FLT WSHR M4	
203	050-0008	HEX NUT M8	
204	061-0008	SPR WSHR M8	
205	060-0008	FLT WSHR M8	
206	000-0520-FS	M SCR PH W/FS M5×20	

11







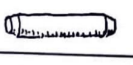
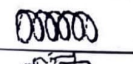



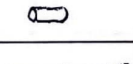
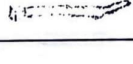
ASSY HANDLE GRIP (GLC-2030)

(D-1/2)



⑪ ASSY HANDLE GRIP (GLC-2030)

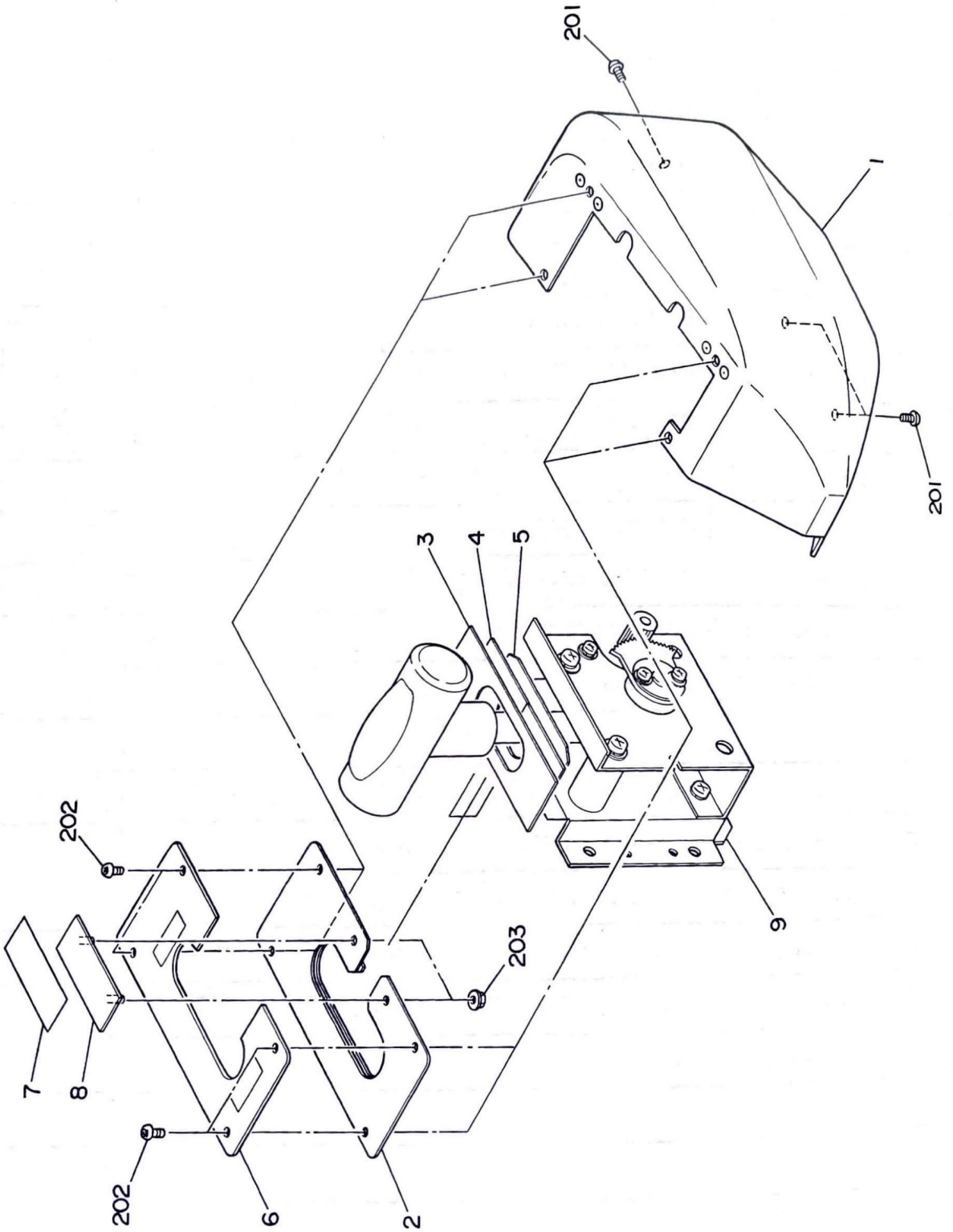
(D-2/2)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	GLC-2031	HANDLE GRIP RIGHT	
2	GLC-2032	HANDLE GRIP LEFT	
3	GLC-2033	SW BRACKET	
4	GLC-2034	PLATE	
5	GLC-2035	WIRE PLATE	
6	GLC-2036	STOPPER	
7	123-5062	SHAFT TRIGGER	
8	125-0011	COMPRESSION SPRING	
9	253-5331	TRIGGER	
101	509-0058	SWITCH MICRO TYPE	
102	509-5319	SW PUSH BUTTON IT YELLOW	
103	310-5029-F10	SUMITUBE F F 10mm	
104	601-0460	TIE BELT 85mm	
201	000-0306-S	M SCR PH W/S M3×6	
202	029-0309	M SCR PH CRM M4×10	
203	029-0310	TMP PRF SCR PH CRM M5×10	
204	029-0312	M SCR PH M2×12	
205	090-0042	GLUE SCREW LOCK	
	090-0012	SCREW LOCK	

12

ASSY THROTTLE (GLC-2100)

(D-1/2)





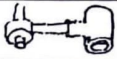


















13

ASSY THROTTLE MECHA (GLC-2150)

(D-2/3)

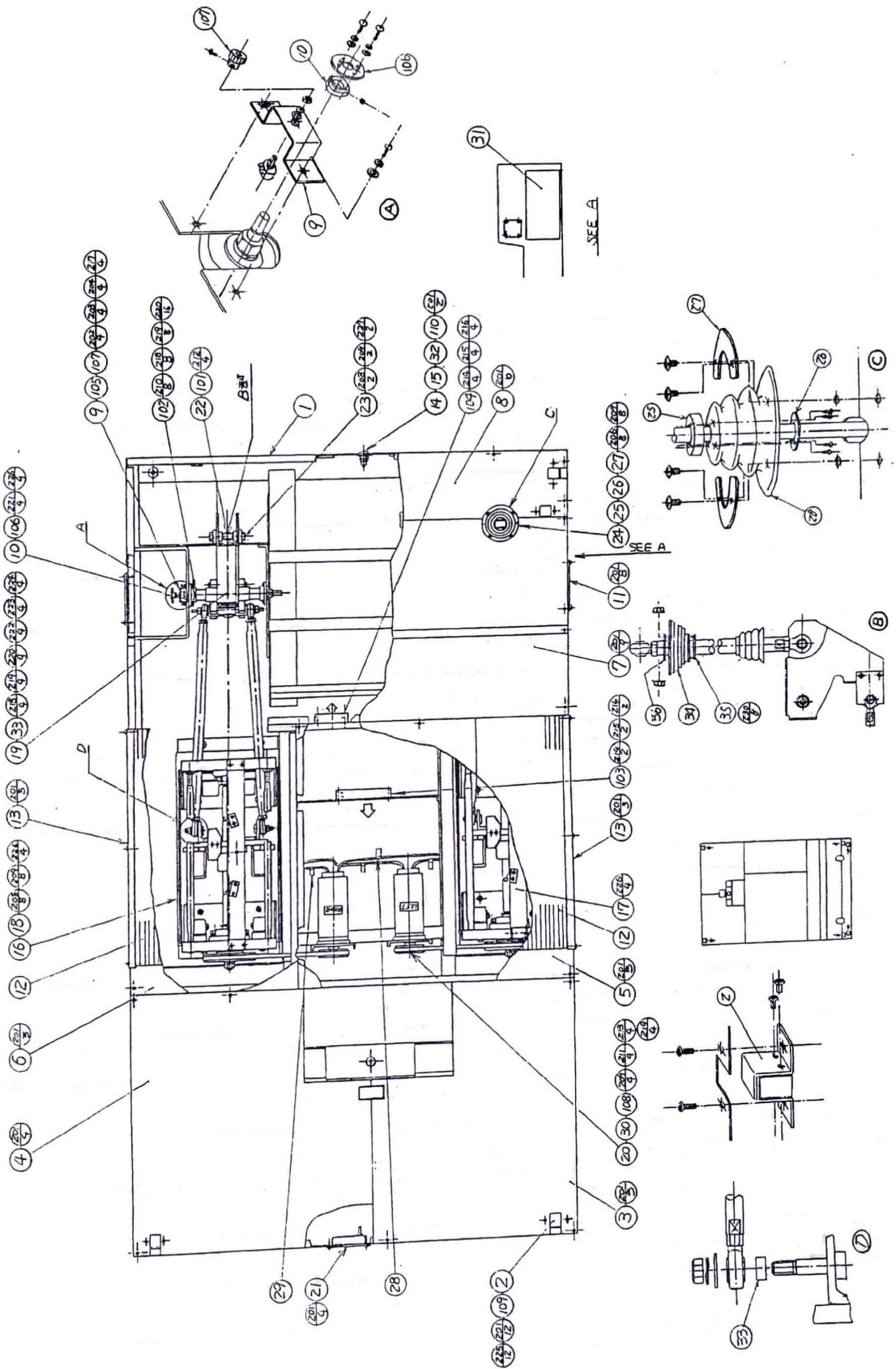
ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	GLC-2101X	THROTTLE LEVER	
2	GLC-2102	BASE BRKT A	
3	GLC-2103	BASE BRKT B	
4	GLC-2104	SW COLLAR	
5	GLC-2105	STOPPER POST	
6	GLC-2106	RUBBER STOPPER	
7	GLC-2107	VR BRRT	
8	GLC-2108	TORTION SPRING	
9	GLC-2122	GEAR PLATE	
10	JI-3113	GUIDE RING	
101	220-5130	VOL CONT B-5KOHM	
102	280-0419	HARNESS LUG	
103	509-5323-01	SW PB IM RED W/O RING	
104	601-5410	GEAR 15 $\phi$ 6	
105	601-6005	ADJUST GEAR	
201	000-0412-FS	M SCR PH W/FS M4×12	
202	000-0514-S	M SCR PH W/S M5×14	
203	000-0514-FS	M SCR PH W/FS M5×14	
204	010-0308-F	S-TITE SCR PH W/F M3×8	
205	028-0021	SET SCR PH SPCL M4×16	
206	028-0040	SET SCR HEX SKT CUP M3×6	
207	029-0226	M SCR FH BLK M4×8	
208	054-0005	U-NUT M5	
209	090-0002	GLUE, CEMEDINE NO. 3000RS	

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ASSY THROTTLE MECHA (GLC-2150)

(D-3/3)





















ITEM NO.	PART NO.	DESCRIPTION	NOTE
210	090-0012	SCREW LOCK	
211	090-0013	GREASE	



⑭

## ASSY MECHANISM &amp; BASE (GLC-3000)









(D-2/5)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	GLC-3001	BASE	
2	GLC-3002	SENSOR BRKT	
3	GLC-3003	COVER LEFT	
4	GLC-3004	COVER RIGHT	
5	GLC-3005	COVER CENTER LEFT	
6	GLC-3006	COVER CENTER RIGHT	
7	GLC-3007	REAR COVER A	
8	GLC-3008	REAR COVER B	
9	GLC-3009	BRKT VR	
10	GLC-3010	GUIDE RING	
11	GLC-3011	SIDE PCATE	
12	GLC-3012	FLOOR MAT	
13	GLC-3013	CORNER BRKT	
14	GLC-3014	SERVICE DOOR	
15	DP-1167	TNG LKG	
16	GLC-3050	ASSY MECHANISM	
17	GLC-3100	LIMIT SW ASSY LEFT	
18	GLC-3110	LIMIT SW ASSY RIGHT	
19	GLC-3130	ASSY CRANK	
20	YZ-3203	ASSY MOTOR	
21	GLC-3300	AC UNIT	
22	GLC-3015	PUSH ROD	
23	GLC-3016	ROD SCREW	
24	GLC-3017	ROD BOOT	
25	GLC-3018	ROD GUIDE	
26	GLC-3019	GUIDE PLATE	

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## ASSY MECHANISM &amp; BASE (GLC-3000)

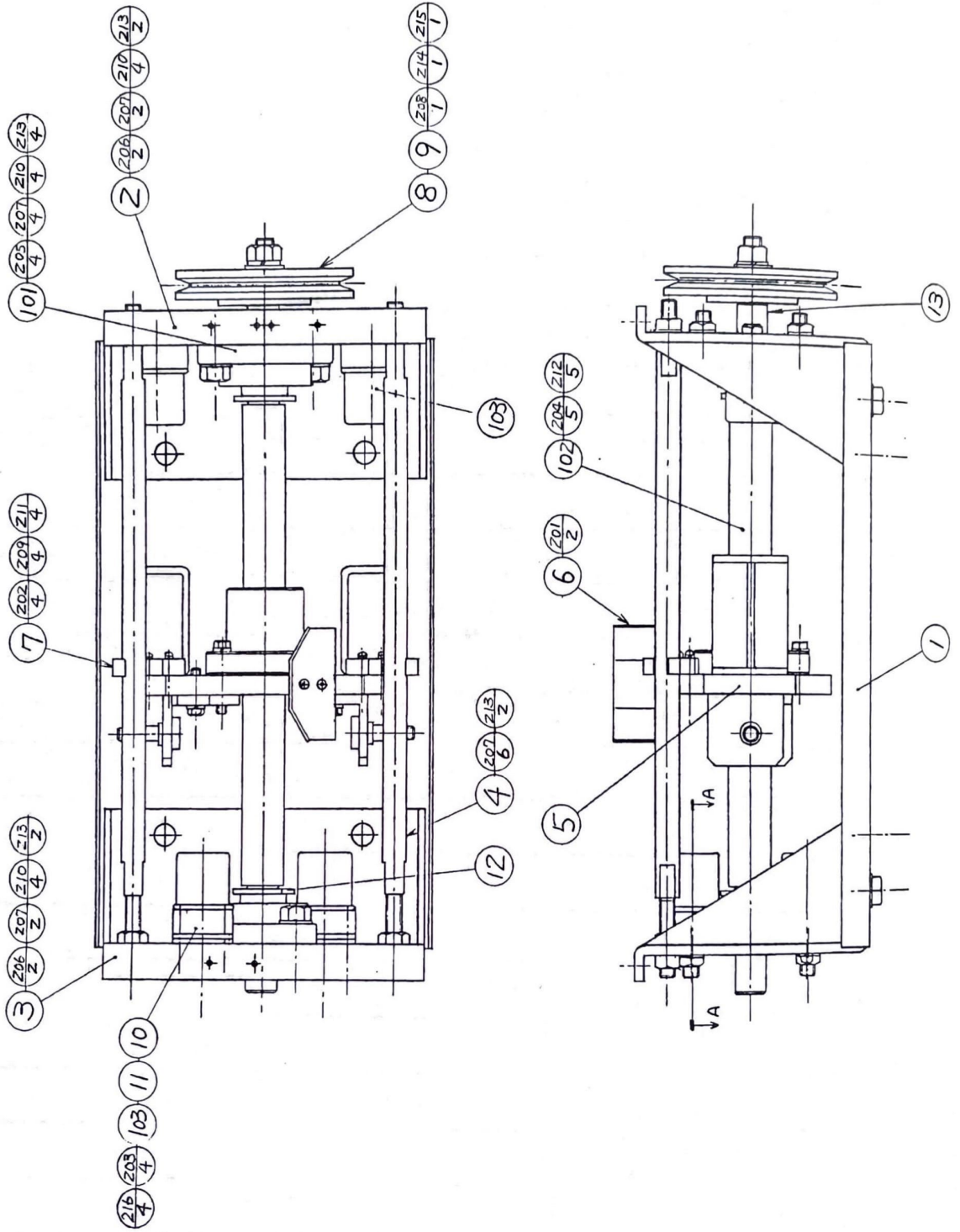
(D-3/5)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
27	GLC-3020	COUER PLATE	
28	421-7662	STICKER LEFT	
29	421-7661	STICKER RIGHT	
30	421-7663	STICKER R-L MOTOR	
31	421-7671	STICKER G-LOC	
32	421-7672	STICKER PUTTING A COIN	
33	GLC-3021	ROD END COLLAR	
34	GLC-3022	ROD BOOT UPPER	
35	GLC-3023	BOOT HOLDER UPPER	
36	GLC-3024	ROD GUIDE UPPER	
101	111-0018	ROD END $\phi$ 18	
102	100-5031	BEARING UNIT	
103	260-0035	FAN MOTOR AC100	
104	260-0011-02	AXAL FAN AC100V 50~60Hz	
105	220-5130	VOL CONT B-5K OHM	
106	601-6109	GEAR 60	
107	601-6451	GEAR 20, L=14	
108	350-5198	V BELT	
109	370-5019	BEAM SENSOR	
110	220-5253	MAGNETIC LOCK MASTER W/O KEY	
111	280-5009	CORD CLAMP $\phi$ 21	
112	280-5122	CORD CLAMP	
113	280-5169	CORD CLAMP TL-20S	
201	008-0410	TMP PRF SCR TH M4×10	

ITEM NO.	PART NO.	DESCRIPTION	NOTE
202	029-0035	M SCR PH M6×12	
203	060-0006	FLT WSHR M6	
204	061-0006	SPR WSHR M6	
206	008-0416	TMP PRF SCR TH M4×16	
207	012-0412	TAP SCR PH M4×12	
208	050-0010	HEX NUT M10	
209	065-0010	SPR WSHR M10	
210	039-0096	HEX BLT M14×40	
211	039-0022	HEX BLT M10×60	
212	059-0020	HEX NUT M18	
213	060-0010	FLT WSHR M10	
214	000-0450	M SCR PH M4×50	
215	060-0004	FLT WSHR M4	
216	061-0004	SPR WSHR M4	
217	028-0003	SET SCR PH SPCL M3×8	
218	059-0016	HEX NUT M14	
219	069-0045	FLT WSHR M14	
220	069-0019	SPR WSHR M14	
221	028-0019	SET SCR HEX SKT CP UNBR M4×8	
222	050-0008	HEX NUT M8	
223	060-0008	FLT WSHR M8	
224	061-0008	SPR WSHR M8	
225	008-0420	TMP PRF SCR TH M4×20	
226	000-0412-FS	M SCR PH W/FS M4×12	
227	069-0010	FLT WSHR 10.3-22.2×2	
228	090-0012	SCREW LOCK	







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## ASSY MECHANISM (GLC-3050)

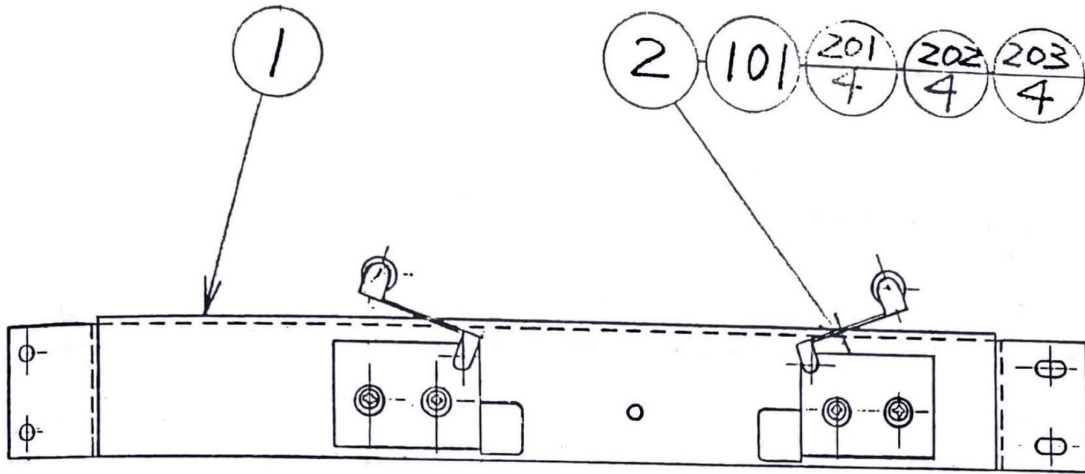
(D-2/3)

ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	YZ-3101	MECHA BASE	
2	YZ-3102	SIDE PLATE	
3	GLC-3051	SIDE PLATE G	
4	YZ-3103	ADJUST SHAFT	
5	GLC-3052	MOVING PLATE	
6	GLC-3053	ACTUATER	
7	YZ-3109	SHAFT GUIDE	
8	KR-3005X	DRIVEN PULLEY	
9	RH-3311	KEY	
10	GLC-3054	STOPPER SPACER	
11	GLC-3055	ADJUST RING	
12	RH-3313	BEARING SPACER	
13	YZ-3116	THRUST COLLAR	
101	100-5025	BEARING UNIT	
102	350-5081	BALL SCREW	
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	M12



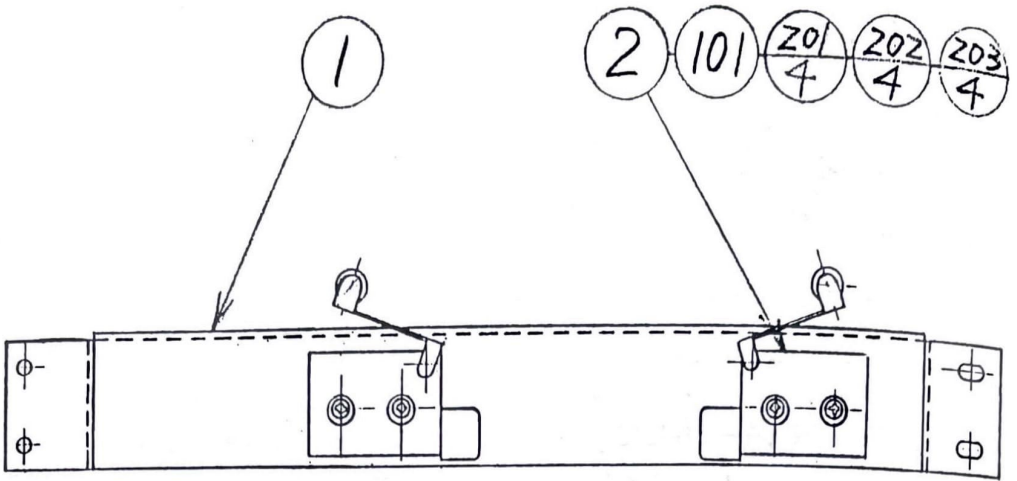
16

LIMIT SW ASSY LEFT (GLC-3100)



ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	GLC-3101	LIMIT SW BRACKET	
2	KR-3023	LIMIT SW NUT PLATE	
101	509-5199	SW MICRO TYPE	
201	000-0430	M SCR PH	M4×30
202	060-0004	FLT WSHR	M4
203	061-0004	SPR WSHR	M4

①⑦ LIMIT SW ASSY RIGHT (GLC-3110)

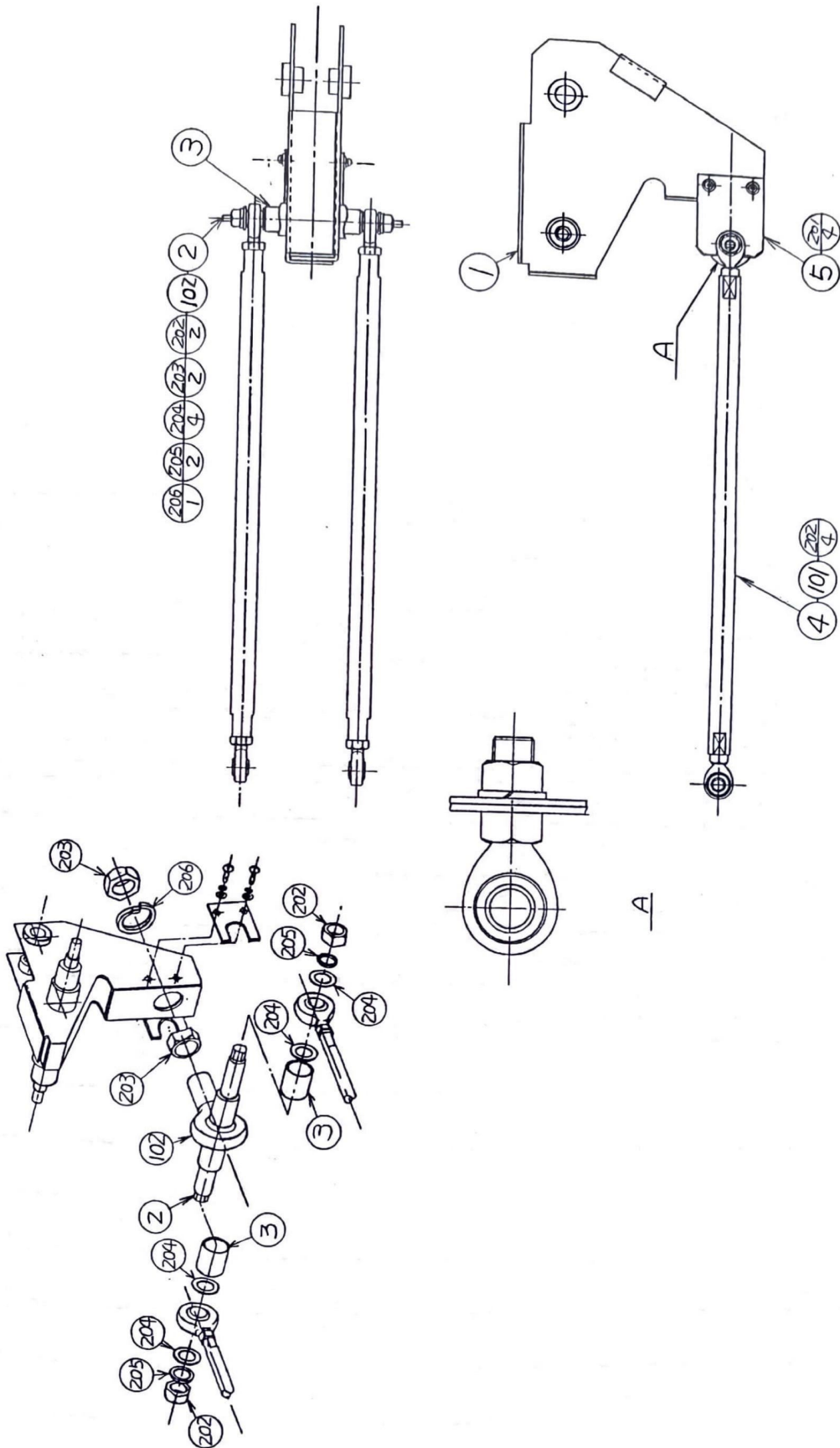


ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	GLC-3101	LIMIT SW BRACKET	
2	KR-3023	LIMIT SW NUT PLATE	
101	509-5199	SW MICRO TYPE	
201	000-0430	M SCR PH	M4×30
202	060-0004	FLT WSHR	M4
203	061-0004	SPR WSHR	M4

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# ASSY CRANK (GLC-3130)

(D-1/2)



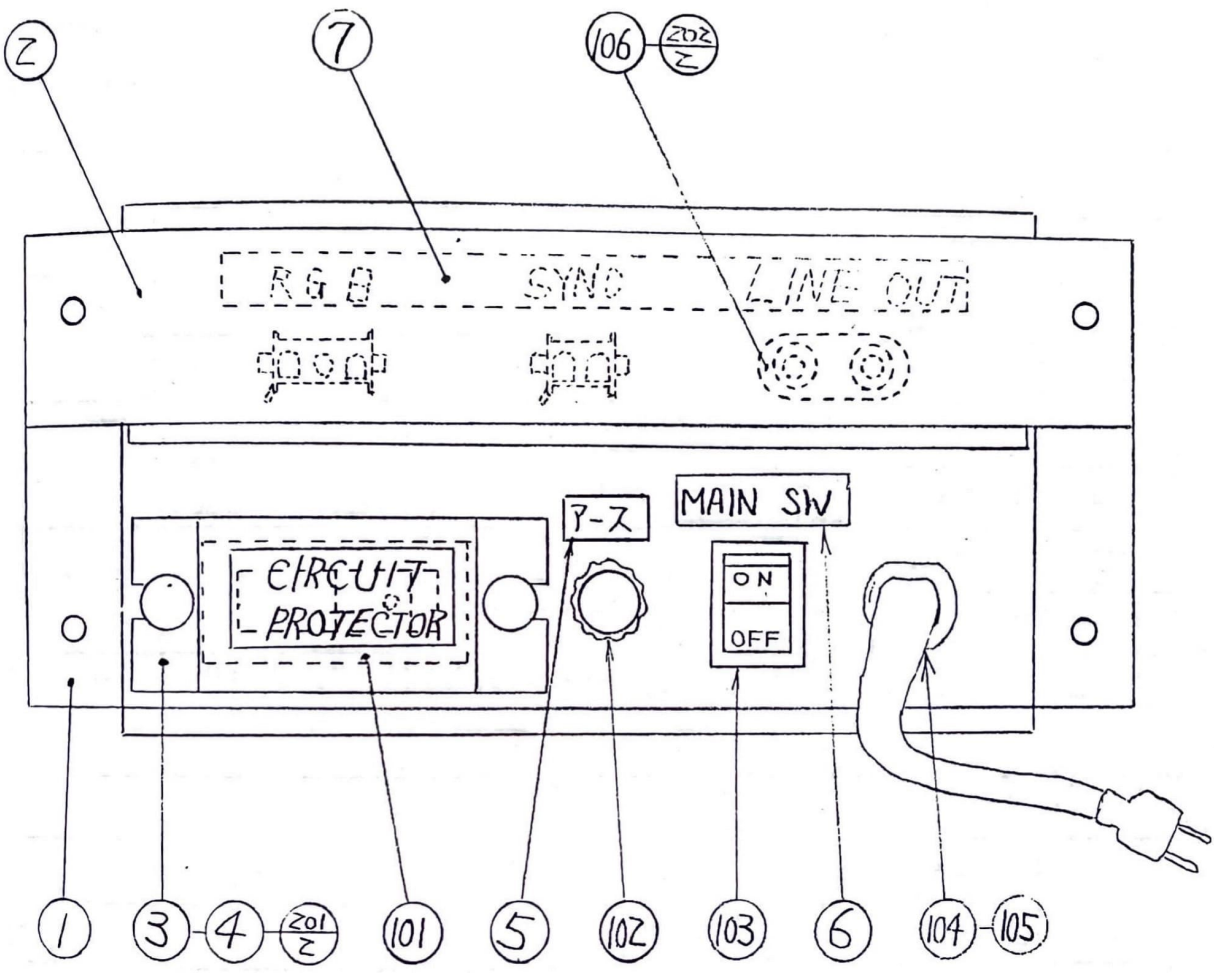




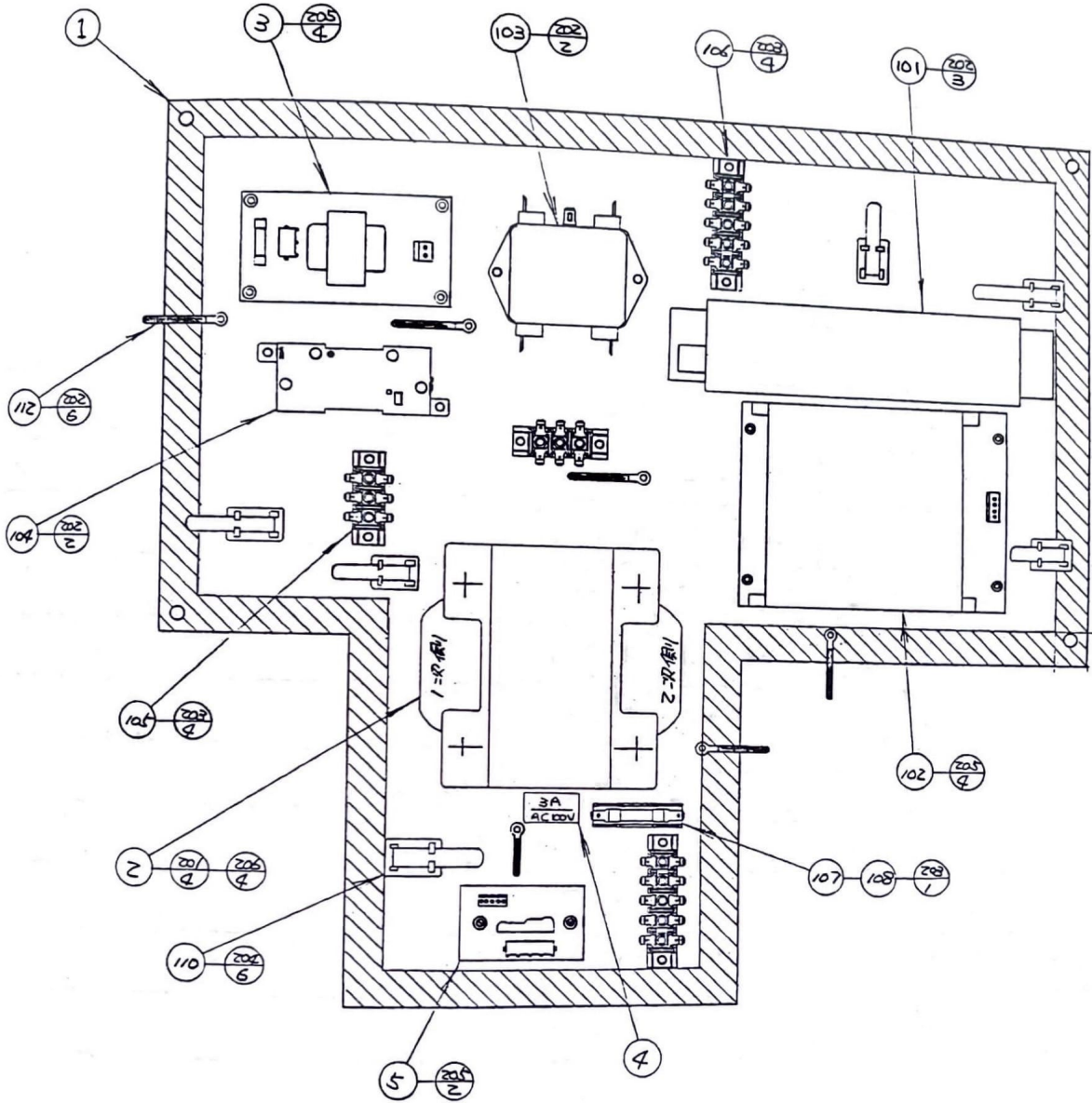
19








AC UNIT (GLC-3300)

(D-1/2)





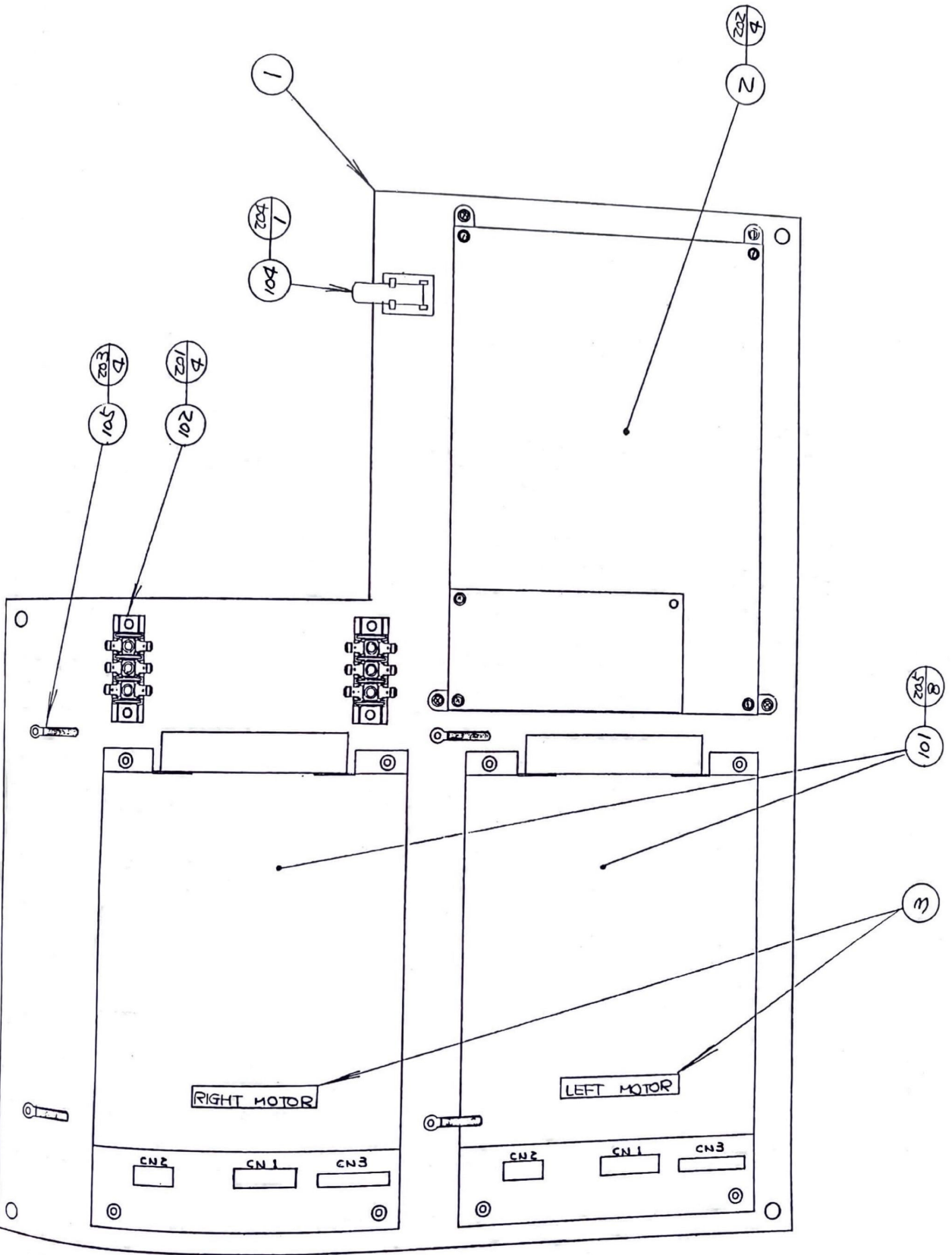


ITEM NO.	PART NO.	DESCRIPTION	NOTE
1	GLC-4001	WOODEN BASE A	
2	560-5167	PWR XFMR 90-240V 100V, 18.5V	
3	839-0339	RECT BD +5V ~ 24V	
4	421-7628	STICKER FUSE INSTR 3A 100V	
5	839-0233-02	SSR AC 2A DC 5V BD	
101	400-5089	SW REGU AC 90-240V +5V 12A	
102	601-6227-02	PWR AMP W/SW REGU 12V 5A	
103	270-5032	NOISE FILTER 20A	
104	450-5048	SSR AC 20A	
105	117-5172	TERMINAL PLATE 3P	
106	117-5167	TERMINAL 5P-2P×2 SHORT	
107	514-5028	FUSE HOLDER 1P W/COVER	
108	514-5036-3000	FUSE 6.4φ × 30 3A 125V	
110	280-5008	CORD CLAMP φ 15	
112	280-0419	HARNESS LUG	
113	601-0460	PLASTIC TIEBELT 85mm	
201	000-0516-FS	M SCR PH W/FS M5×16	
202	005-3113-F	W SCR RH W/F 3.1×13	
203	005-3516	W SCR RH 3.5×16	
204	006-3110	W SCR FH 3.1×10	
205	029-0173	W SCR RH 2.7×25	
206	069-0001	FLT WSHR 5.5-20×1.6	

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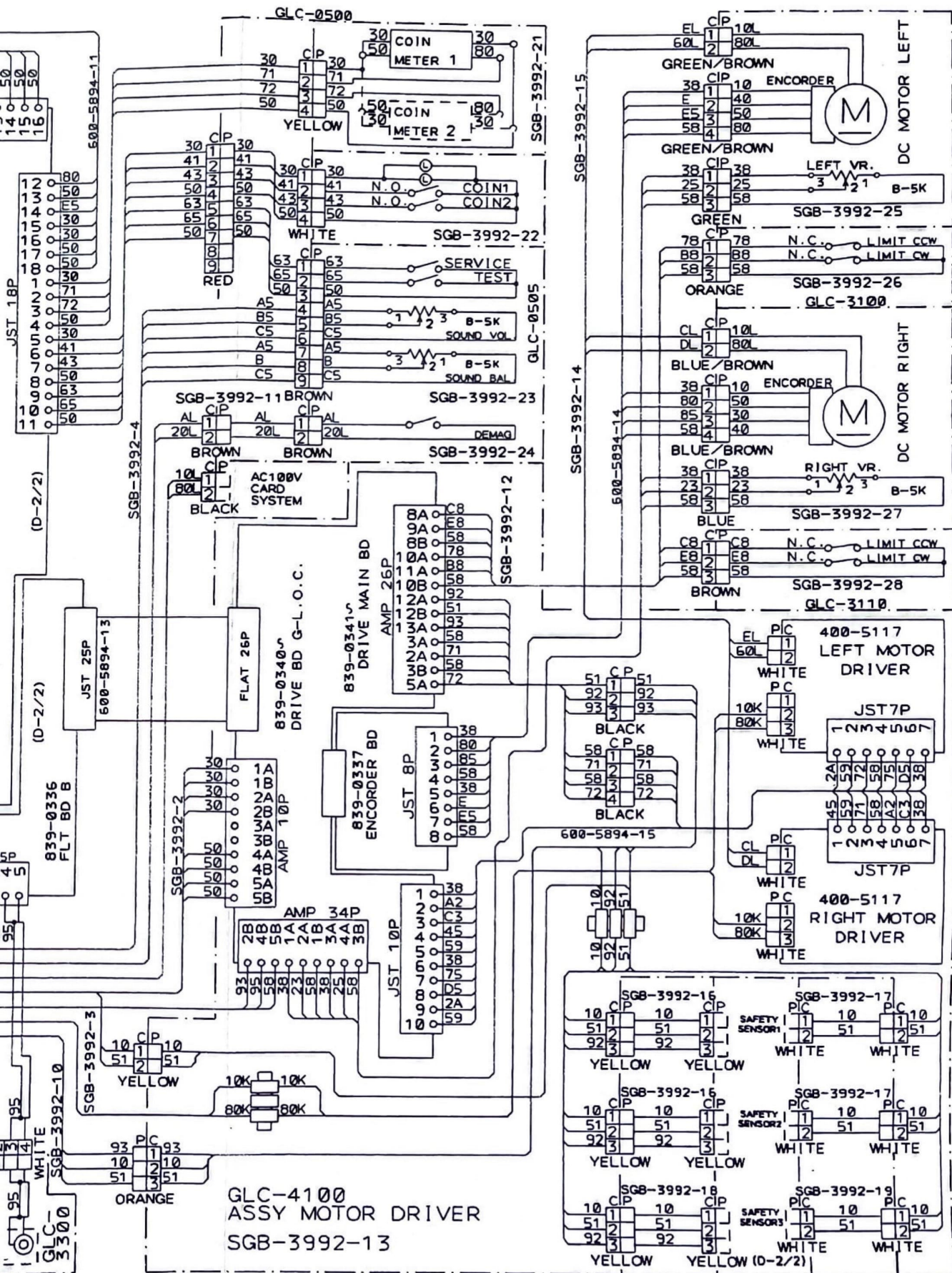
# ASSY MOTOR DRIVER (GLC-4100)

(D-1/2)







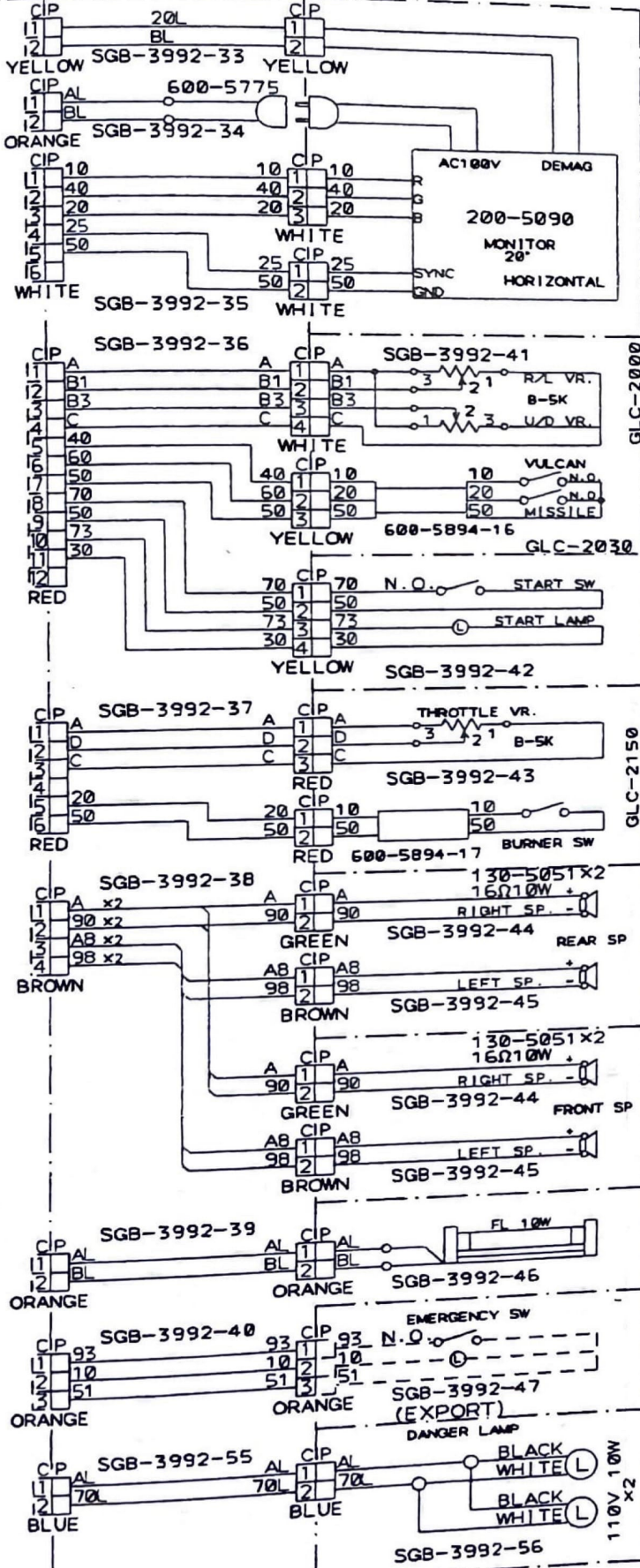


26. WIRING DIAGRAM (D-1/2)

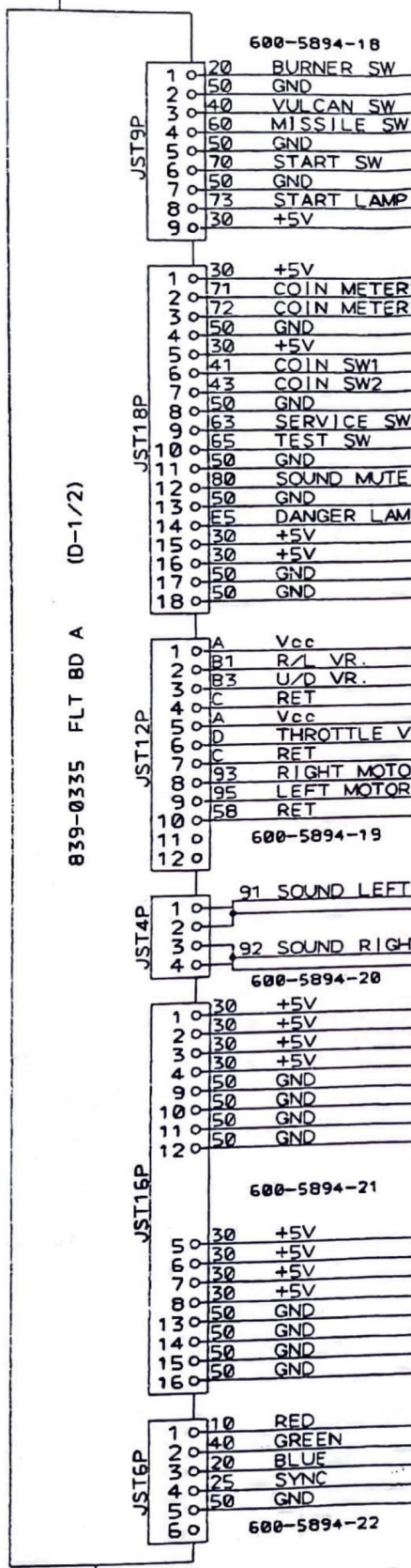


GLC-1000 MONOCOQUE

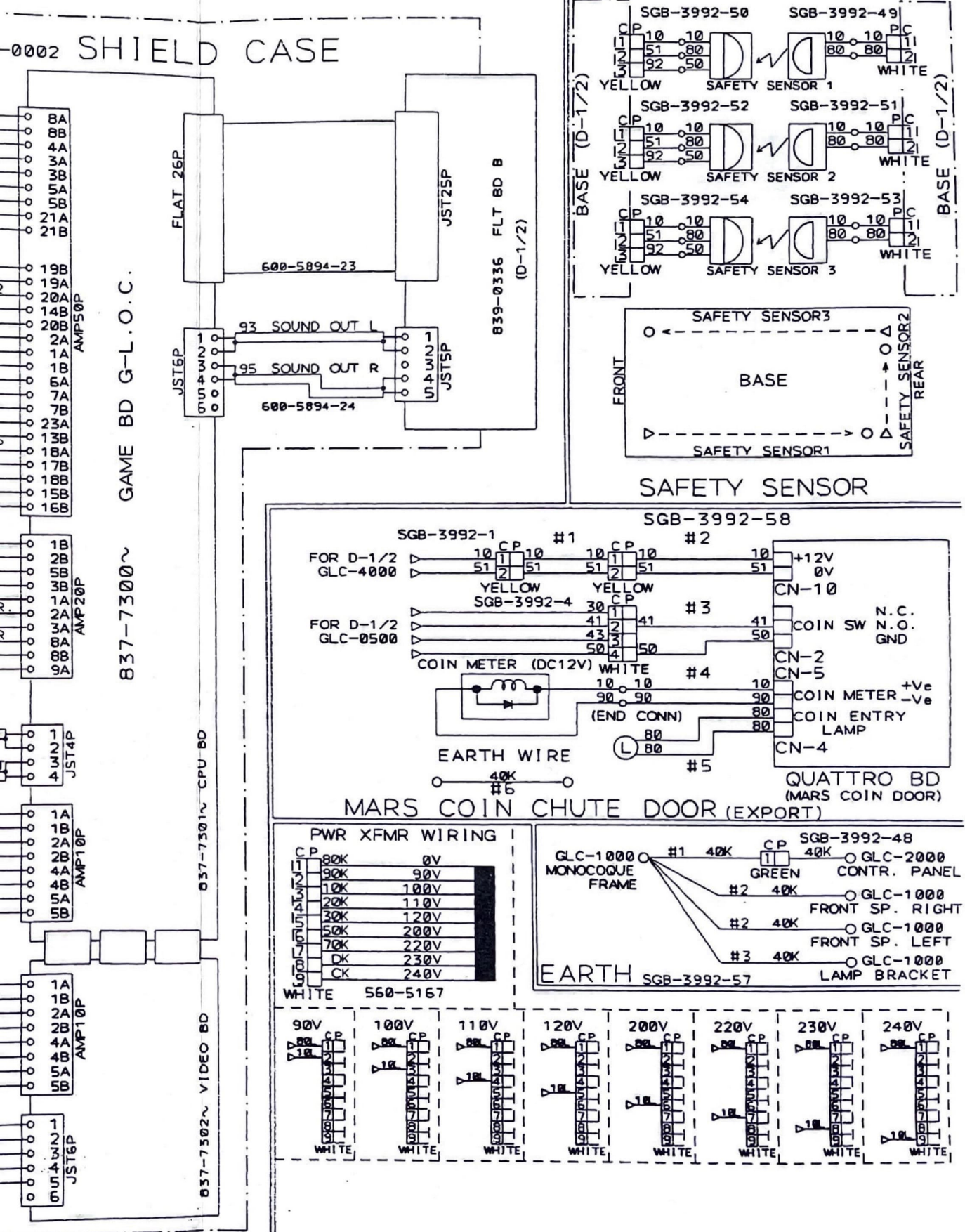
BASE GLC-3000 (D-1/2)



GLC



839-0335 FLT BD A (D-1/2)



26. WIRING DIAGRAM (D-2/2)

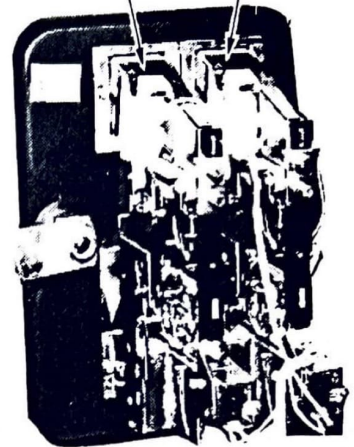
# DIP SW. SETTING

## COIN/CREDIT OPTION SW. SETTING

## DIP SW. A

		1	2	3	4	5	6	7	8
1 COIN	1 CREDIT	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
1 COIN	2 CREDITS	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
1 COIN	3 CREDITS	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
1 COIN	4 CREDITS	ON	ON	OFF	OFF	ON	ON	OFF	OFF
1 COIN	5 CREDITS	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
1 COIN	6 CREDITS	ON	OFF	ON	OFF	ON	OFF	ON	OFF
2 COINS	1 CREDIT	OFF	ON	ON	OFF	OFF	ON	ON	OFF
3 COINS	1 CREDIT	ON	ON	ON	OFF	ON	ON	ON	OFF
4 COINS	1 CREDIT	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
2 COINS	3 CREDITS	ON	OFF	OFF	ON	ON	OFF	OFF	ON
2 COINS	1 CREDIT	ON	ON	OFF	ON	ON	ON	OFF	ON
4 COINS	2 CREDITS	OFF	ON	OFF	ON	OFF	ON	OFF	ON
5 COINS	3 CREDITS	OFF	ON	OFF	ON	OFF	ON	OFF	ON
6 COINS	4 CREDITS	OFF	ON	OFF	ON	OFF	ON	OFF	ON
2 COINS	1 CREDIT	ON	ON	OFF	ON	ON	ON	OFF	ON
4 COINS	3 CREDITS	OFF	ON	OFF	ON	OFF	ON	OFF	ON
1 COIN	1 CREDIT	OFF	OFF	ON	ON	OFF	OFF	ON	ON
2 COINS	2 CREDITS	OFF	OFF	ON	ON	OFF	OFF	ON	ON
3 COINS	3 CREDITS	OFF	OFF	ON	ON	OFF	OFF	ON	ON
4 COINS	4 CREDITS	OFF	OFF	ON	ON	OFF	OFF	ON	ON
5 COINS	6 CREDITS	OFF	OFF	ON	ON	OFF	OFF	ON	ON
1 COIN	1 CREDIT	ON	OFF	ON	ON	ON	OFF	ON	ON
2 COINS	2 CREDITS	ON	OFF	ON	ON	ON	OFF	ON	ON
3 COINS	3 CREDITS	ON	OFF	ON	ON	ON	OFF	ON	ON
4 COINS	5 CREDITS	ON	OFF	ON	ON	ON	OFF	ON	ON
1 COIN	1 CREDIT	OFF	ON	ON	ON	OFF	ON	ON	ON
2 COINS	3 CREDITS	OFF	ON	ON	ON	OFF	ON	ON	ON
NOT USED		ON	ON	ON	ON	ON	ON	ON	ON
		COIN SW #1				COIN SW #2			

COIN SW #1  
COIN SW #2



## GAME OPTION SW. SETTING

## DIP SW. B

		1	2	3	4	5	6	7	8	
GAME DIFFICULTY	NORMAL	OFF	OFF							
	EASY	ON	OFF							
	HARD	OFF	ON							
	HARDEST	ON	ON							
ADVERTISE SOUND	OFF			OFF						
	ON			ON						
CABINET TYPE	MOVING				OFF	OFF				
	COCKPIT				ON	ON				
	UPRIGHT				OFF	ON				
	SIT DOWN				ON	ON				
CONTINUE GAME	YES						OFF			
	NO						ON			
INITIAL CREDIT	CONTINUE CREDIT									
	2								OFF	OFF
	3								ON	OFF
	1								OFF	ON
	4								ON	ON

DIP SW A

DIP SW B

