

SEGA®

HOT ROD

UPRIGHT TYPE

OWNER'S MANUAL



SEGA ENTERPRISES, LTD.

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SPECIFICATIONS

INSTALLATION SPACE	: 700 mm (27.5 in.) W × 920 mm (36.2 in.) D
HEIGHT	: 1850 mm (72.8 in)
POWER	: 140 W
C.R.T.	: 20" MONITOR
WEIGHT	: 130 kg (284.9 lbs.)

NOTE

- ◆ Description 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 HOT ROD UPRIGHT 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 connecters. Insufficient insertion is very dangerous.
- At the time of shipment, the supplied game disk is not set to the drive unit, therefore, before turning the power ON, make sure that the setting is made.

- When the machine is not to be in use for a long period of time, or when transporting or moving it, be sure to remove the game disk from the drive unit.

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 1988

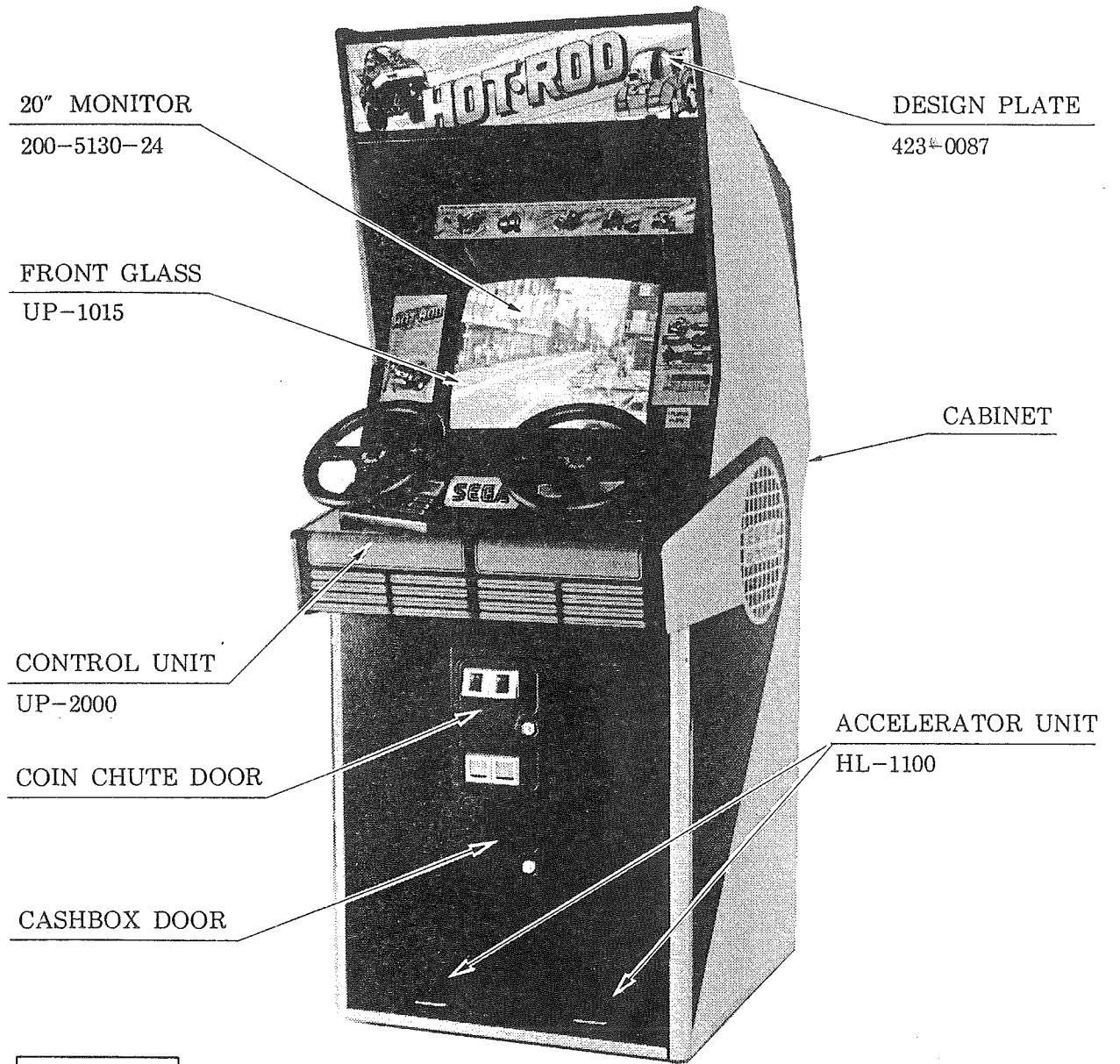
This signifies that this work was disclosed in 1988 and is the property of SEGA ENTERPRISES, LTD.

3. PRECAUTIONS CONCERNING THE PLACE OF INSTALLATION

The HOT ROD UPRIGHT 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 us fire exits and fire extinguishers.
- Places subject to any type of violent impact.
- Dusty places.

4. NAME OF PARTS ①

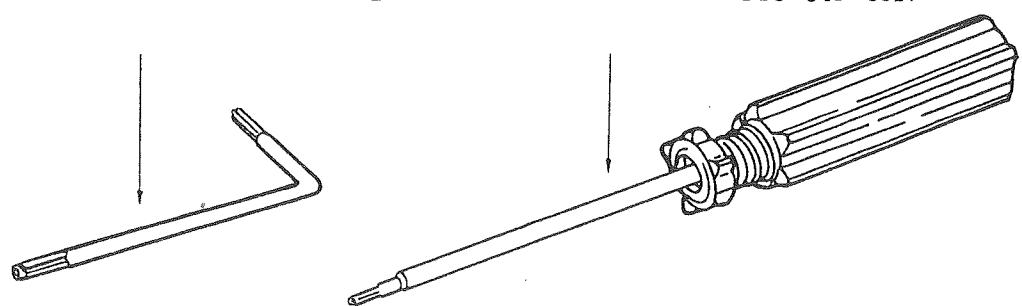


(TAMPERPROOF WRENCH)

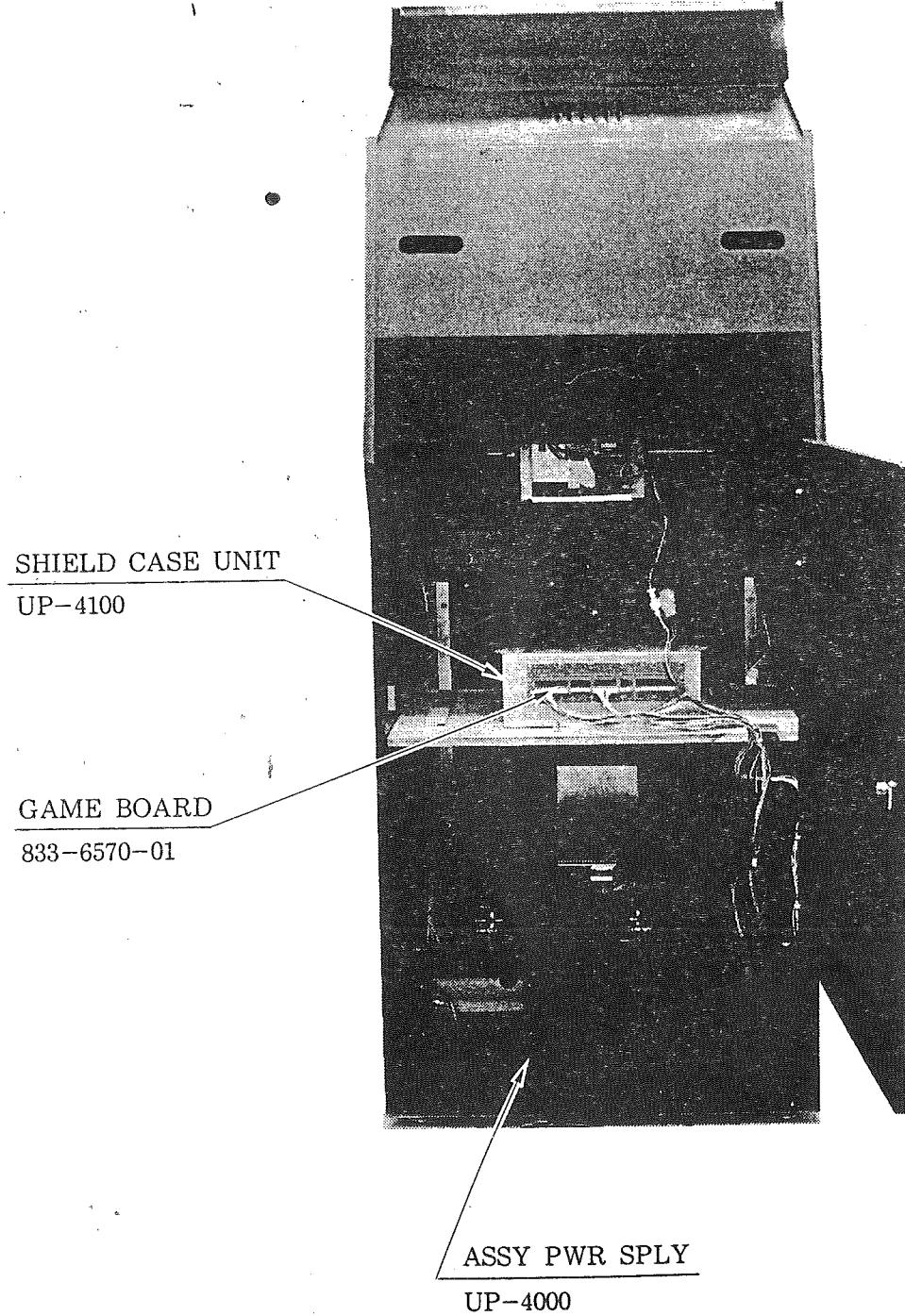
M 4 540-0006-01
M 5 540-0007-01

(TAMPERPROOF WRENCH)

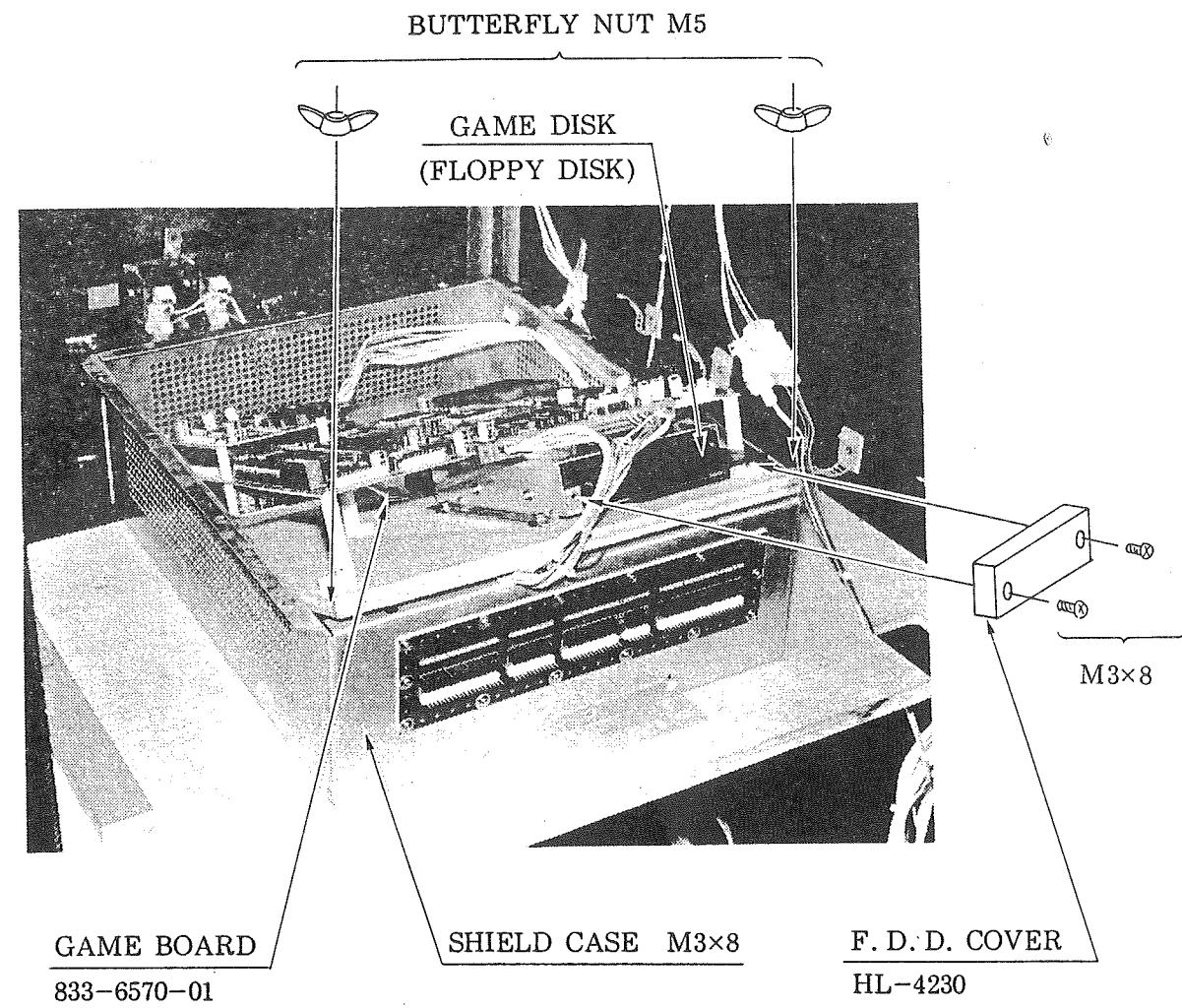
M 4 540-0018
M 5 540-0017



NAME OF PARTS ②

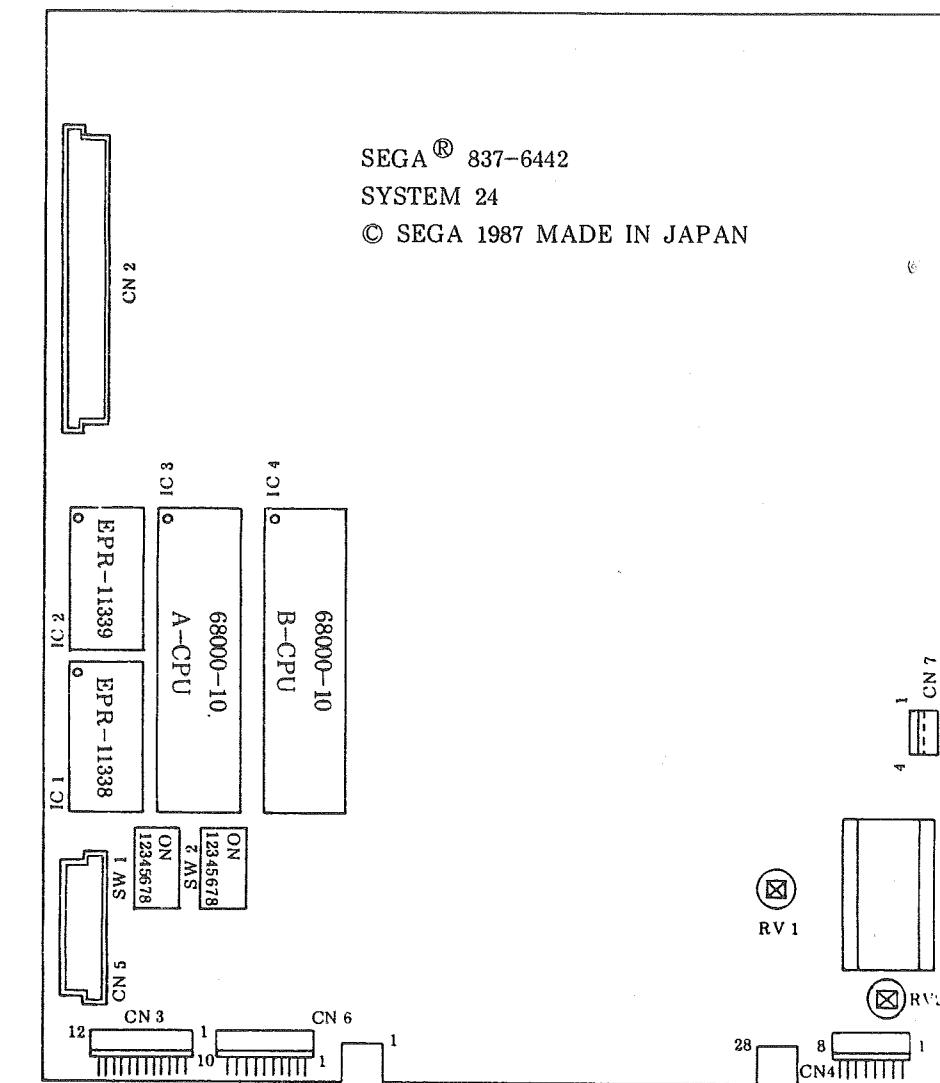
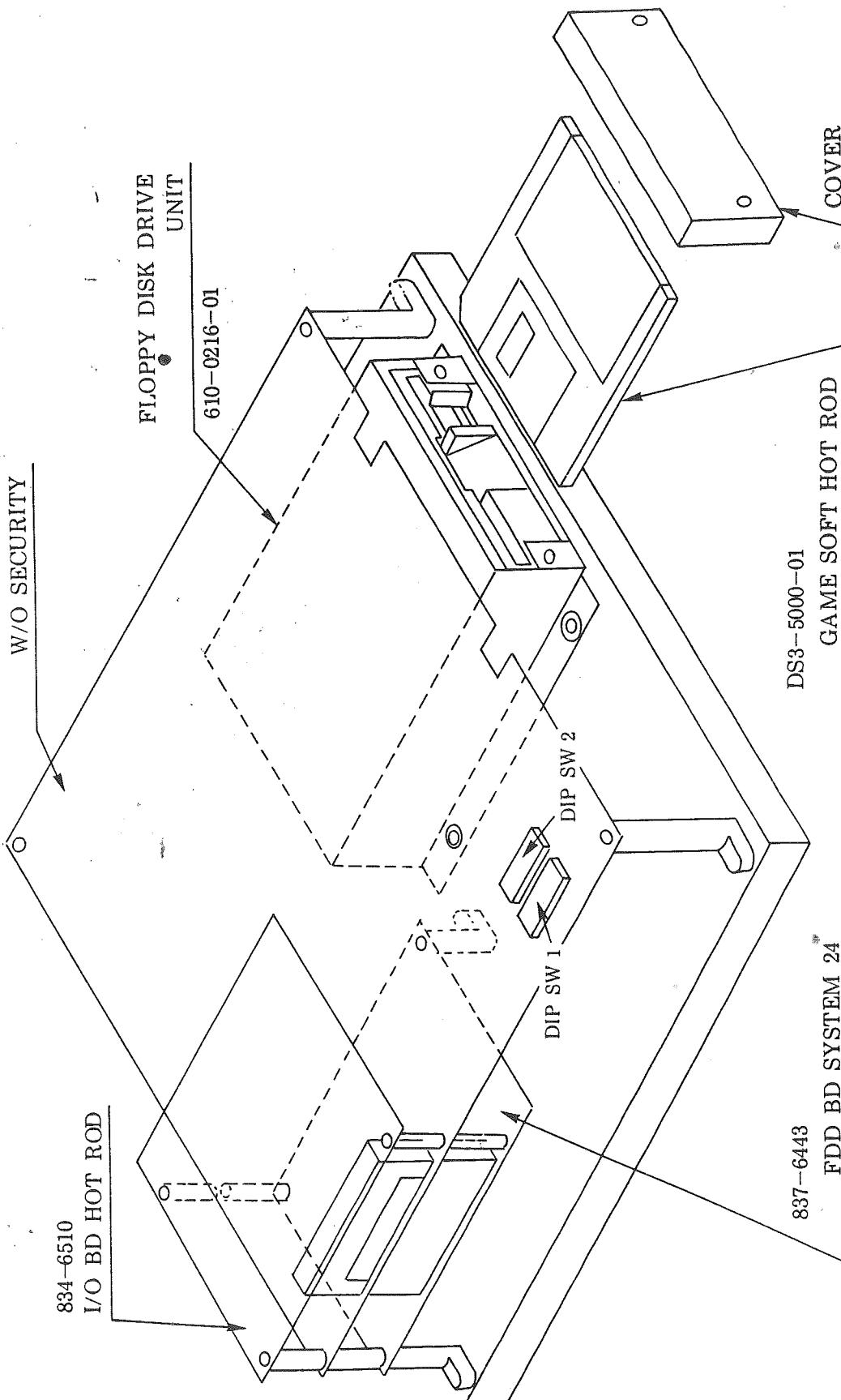


5. SERVICING THE FLOPPY DISK

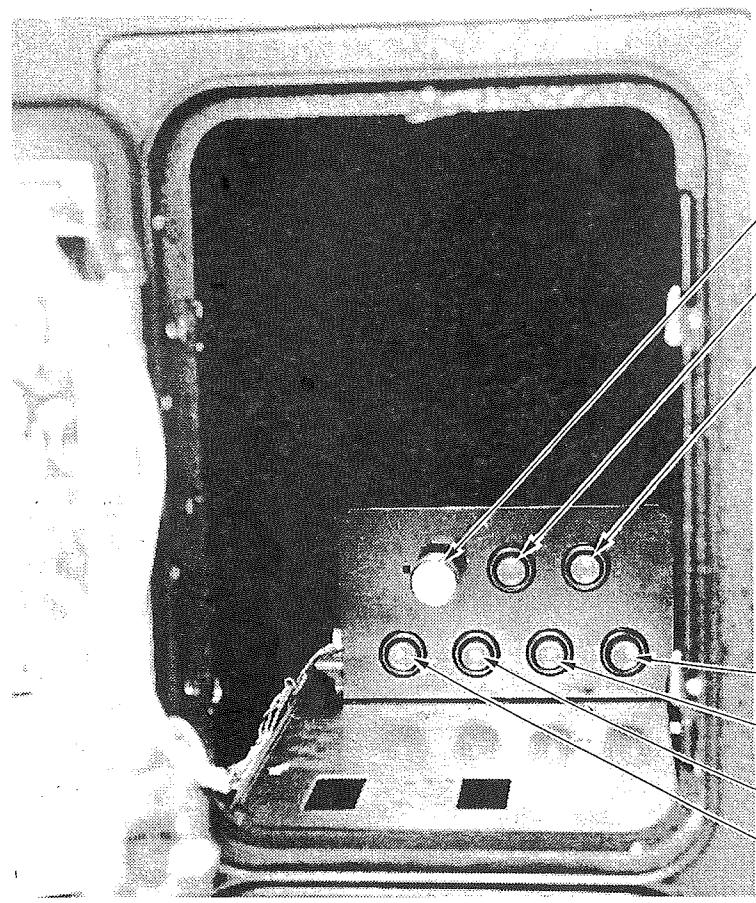


Remove the LID of the SHIELD CASE. Take off the 2 (M5) BUTTERFLY NUTS and pull out the game board unit in a manner so that both ends of it will meet the shield case. Open the FDD (Floppy Disk Drive) LID by taking off the 2 (M3 x 8) SCREWS when replacing the FLOPPY DISK.

837-6571
MAIN BD SYSTEM 24
W/O SECURITY



6. SERVICES SWITCH FUNCTIONS



- SERVICE SWITCH (MAIN)
Not used for the purpose of servicing (see below).
- SERVICE SWITCH 1, 2
Used for the purpose of servicing and increasing the credits without registering on the meter (this allows you to check the game).
- SERVICE SWITCH 3
Not used.
- TEST SWITCH
For operating this switch, see SELF-TEST.
- DEMAGNETIZER SWITCH
Used for removing the on-screen color unevenness.
- VOLUME CONTROL
Controls the speaker volume.

○ SERVICE SW (MAIN)

* As regards the FLOPPY DISK BACKUP

- The SYSTEM 24 BD used for the HOT ROD is provided with a game disk's, BACKUP mode. Use the supplied disk as a master disk and prepare the 3.5" 2HD TYPE for WRITE.

1. BACKUP OPERATION

- (1) When turning the power ON while keeping the SERVICE SW (MAIN) pressed down, the display as shown in Fig. 1 will appear.

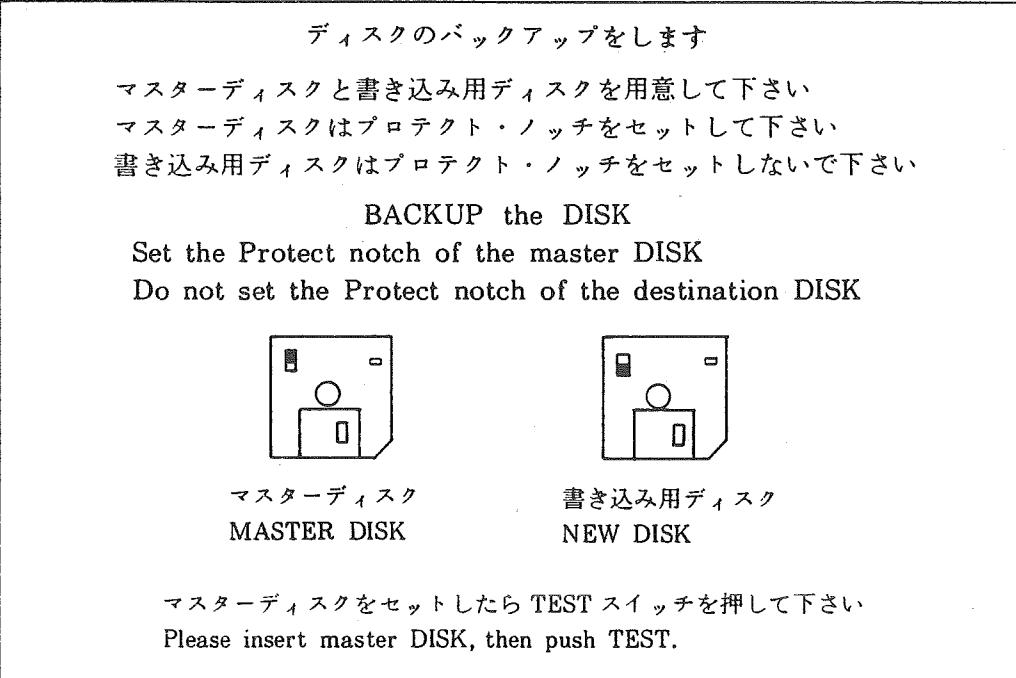
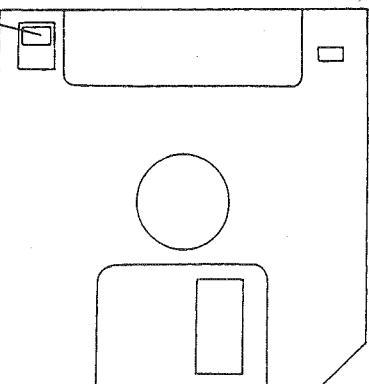


Fig. 1

PROTECT SW



The position of PROTECT SWITCH as per Fig. 1 is shown in Fig. 2. When the SWITCH is set UPWARD as shown, WRITE is not possible. Usually, the SWITCH is set DOWNWARD (WRITE OK position).

Fig. 2

(2) In (1) above, after the master disk is set to FLOPPY DISK DRIVE, pushing the TEST SW will result in the Fig. 3 display with the disk in the state of reading. At this time, where PROTECT SWITCH is not set to WRITE NO, the Fig. 4 display will be indicated. Therefore, set PROTECT as above and insert the disk again and push the TEST SW.

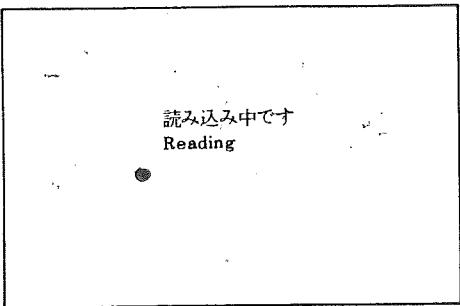


Fig. 3

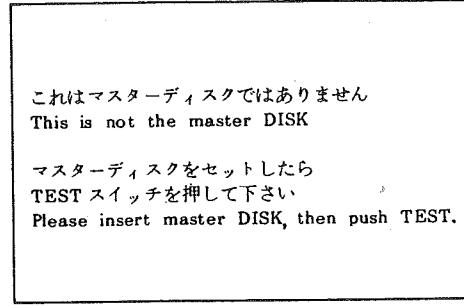


Fig. 4

(3) When the reading is finished, Fig. 5 will be shown.

Remove the master disk and set the disk for WRITE to the drive and push the TEST SW.

At this time, where PROTECT is set to WRITE NO, Fig. 6 will be shown. Therefore, set the switch to WRITE OK and push the TEST SW after resetting. Also, if the Floppy disk is defective, Fig. 7 will be shown. In this case, replace it with a good one and redo starting from (1). When WRITE is finished, Fig. 8 will be displayed.

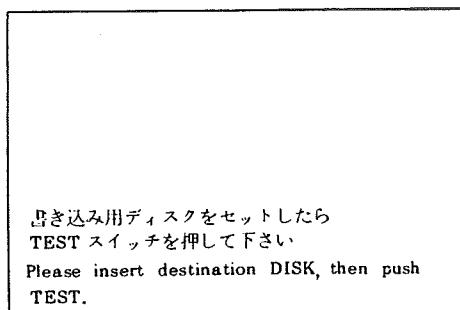


Fig. 5

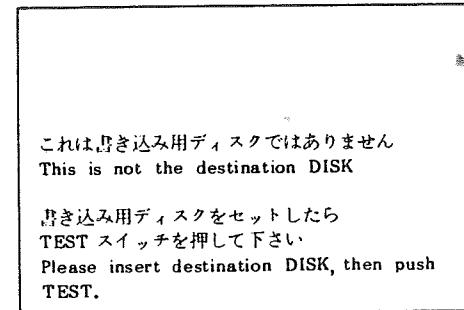


Fig. 6

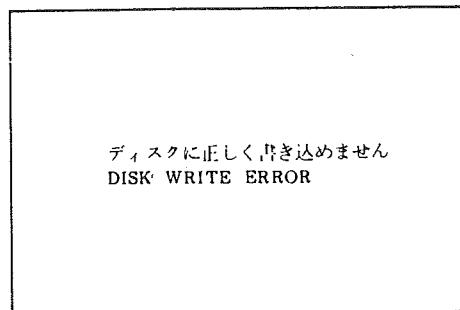


Fig. 7

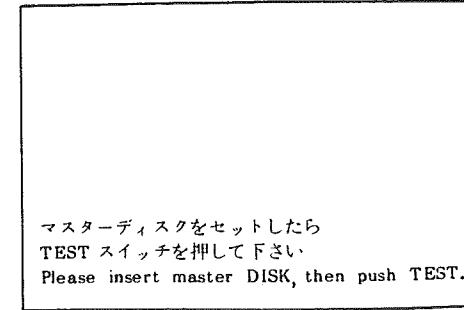


Fig. 8

(4) After repeating the procedure in (2) and (3) above, several times, BACKUP is completed when the Fig. 9 is shown. After the completion of the BACKUP, set the master disk PROTECT SWITCH to WRITE OK.

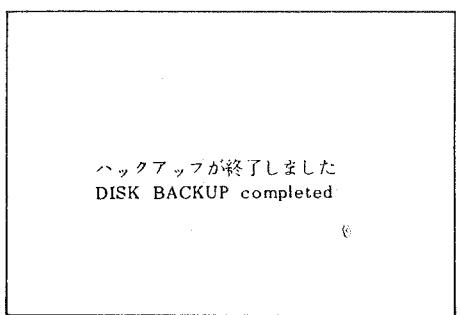


Fig. 9

7. SELF-TEST

This test mainly checks the operation of the game's IC Board, discovers defects if any, and also checks the monitor color adjustments. In addition, the test indicates DIP SW assignments and has a Bookkeeping function.

During disk access, you can not enter the TEST MODE. Wait a little while by keeping the test switch pressed down.

→ * 再起動	Restart
* スイッチ等テスト	Input Test
* 記録の表示	Bookkeeping
* ゲームの設定	Game Adjustment
* ゲーム料金の設定	Pricing Control
* モニターのテスト	Monitor Test
* ディスクの読み出しテスト	Disk Read Test

Select by steering and push TEST.

By using the red player's handle, move the arrow and select the desired test item, then push the test switch.

When proceeding to the next item, push the test switch.

① RESTARTING

Returns to the game screen.

② TESTING THE SWITCHES, ETC.

Pedal	0 0	0 0	0 0	0 0
Max	0 0	0 0	0 0	0 0
Min	0 0	0 0	0 0	0 0
Steering	0 0 0	0 0 0	0 0 0	0 0 0
Coin SW. #1	ON	ON	ON	ON
Coin SW. #2	ON	ON	ON	ON
Service SW.	ON	ON	ON	ON

To display next page, push TEST.

The status of each switch is indicated on the screen.

The JOY TYPE is not equipped with COIN SWITCH #2.

(3) - 1

* ¹ Coin Chute	# 1-1	0
	# 1-2	0
	# 2-1	0
	# 2-2	0
	# 3-1	0
	# 3-2	0
	# 4-1	0
	# 4-2	0

* ² Service Credits	0
* ³ Total Credits	0
* ⁴ Number of Games	0

To display next page, push TEST.

- * 1 : Total number of coins inserted in each coin chute.
- * 2 : Total number of service credits.
- * 3 : Total number of coin chutes' credits and service credits.
- * 4 : Total number of games played.

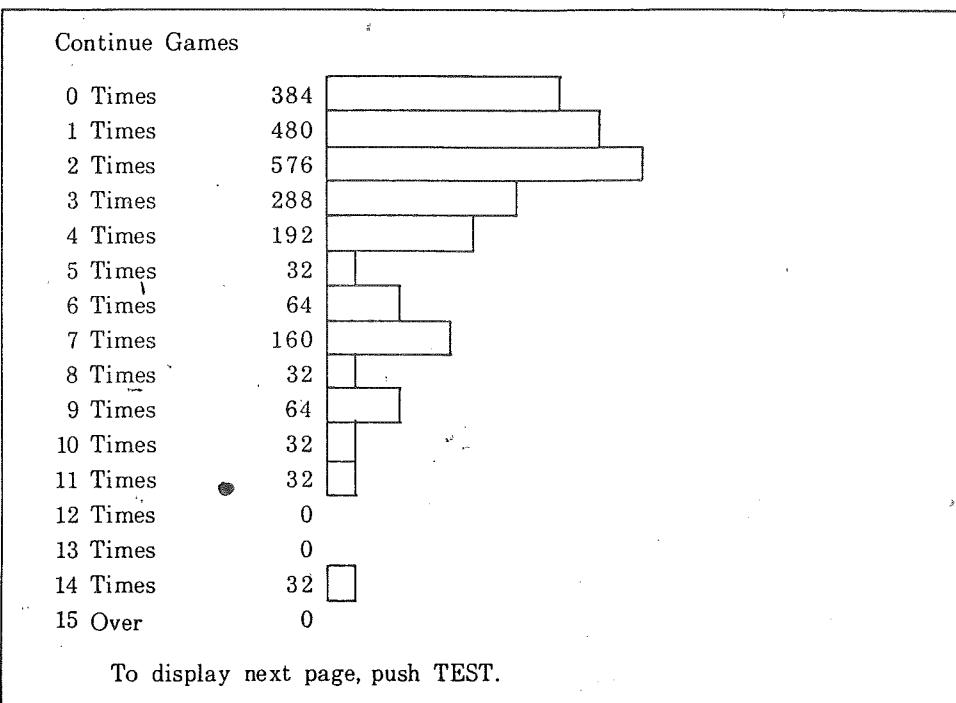
(3) - 2

* ¹ Total Game Time	0 H 00 M 00 S
* ² Longest	0 H 00 M 00 S
Shortest	0 H 00 M 00 S
Average	0 H 00 M 00 S
* ³ 1 Player	0 H 00 M 00 S
2 Players	0 H 00 M 00 S
3 Players	0 H 00 M 00 S
4 Players	0 H 00 M 00 S
* ⁴ Total Operation Time	0 H 00 M 00 S
* ⁵ Highest Score	0 Pts.
Lowest Score	0 Pts.
Average Score	0 Pts.

To display next page, push TEST.

- * 1 : Total time played by all players.
- * 2 : The longest/shortest/average play time.
- * 3 : Total time played by each specific number of players.
- * 4 : Operation time during which the machine was available for play (time in the test mode not included).
- * 5 : The maximum/lowest/average scores.

(3) - 3

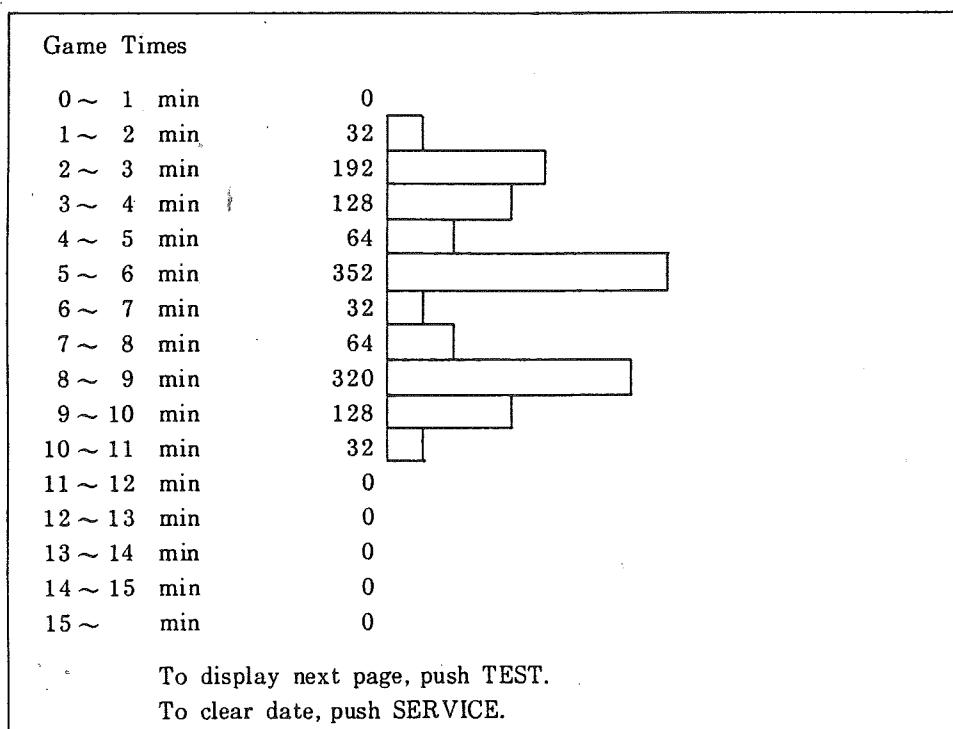


No Use	[OFF/ON]	(DIP SW. 2-1)
No Use	[OFF/ON]	(DIP SW. 2-2)
No Use	[OFF/ON]	(DIP SW. 2-3)
Player	[4P/2P]	(DIP SW. 2-4)
Game Style	[4 Sides/2 Sides]	(DIP SW. 2-5)
Langage (言語)	[日本語/English]	(DIP SW. 2-6)
Coin Chute	[Separate/Common]	(DIP SW. 2-7)
Screen	[Normal/Flip]	(DIP SW. 2-8)

To display next page, push TEST.

The continue play status is shown.

(3) - 4



o Dip SW #2 status is shown.

* ¹ Install Standard	NO	* ⁴ Initial GAS 240	
	YES		
* ² Contive Game	YES	* ⁵ Maximum GAS 240	
	YES		
* ³ Advertise Sound	YES	* ⁶ Units/GAS (1/60 sec) 15	
	YES		
* ⁷ Bonus GAS	1ST	1ST 130 2ND 110 3RD 100 4 TH 100	
	2 Players		
* ⁸ Eliminate ranking every (plays)	3 Players	2000	
	4 Players		
To decide, push SERVICE.			
To display next page, push TEST.			

o Setting of game difficulty level.

Turning the handle changes the numerical values. Pushing the service switch determines the value and proceeds to the next item.

* 1 : In the case of YES chosen for the standard setting, pushing the service switch results in all items being set the same as when they were shipped from the factory.

In the case of NO for the standard setting, pushing the service switch enables the contents to be changed and proceeds to the next item.

* 2 : Setting YES or NO for CONTINUE PLAY.

o Play time status is shown.

o Pushing the service switch at the time of the above display results in erasing all the data.

* 3 : Setting YES or NO for ADVERTISE SOUND.

* 4 : Setting GAS quantity at the time of game start.

* 5 : Setting the maximum GAS quantity the player may have.

* 6 : Setting the speed at which one unit of gas decreases.

For a set numerical value of 1, one unit of gas decreases in approximately 1/60 of a second. With a set value of 60, 6 units of gas decreases in one second. With a set value of 15, 4 units of gas decreases in one second. With a set value of 20, 3 units of gas decrease in one second. With a set value of 30, 2 units of gas decreases in one second.

* 7 : Setting of the gas bonus value awarded when the player reaches the finish line. Depending on the specific number of players, i.e., 1P, 2P, 3P, or 4P, the value can be changed.

* 8 : In this game, the scores of the first to the third places are stored in the disk. However, if not updated within the set frequency of this item, the above score values will be erased from the ranking.

COIN SW. #1	COIN SW. #2
DIP 1-1 OFF	DIP 1-5 OFF
1-2 OFF	1-6 OFF
1-3 OFF	1-7 OFF
1-4 OFF	1-8 OFF
1 COIN CREDIT	1 COIN CREDIT

To display next page, push TEST.

o DIP SW #1 status is shown.

⑥ MONITOR TEST:

The color bar and crosshatch are displayed.

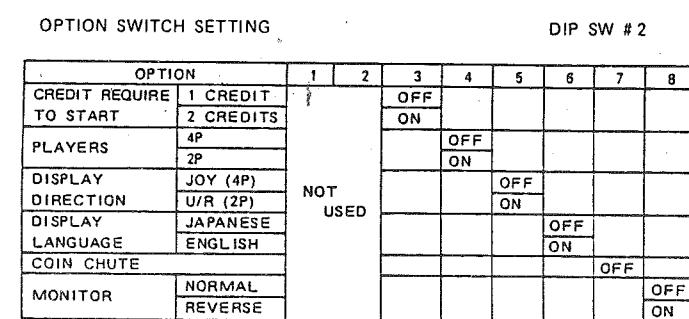
Utilize this test in the adjustments of the monitor color, size, focus and color deviation.

⑦ Tests the disk's read-out.

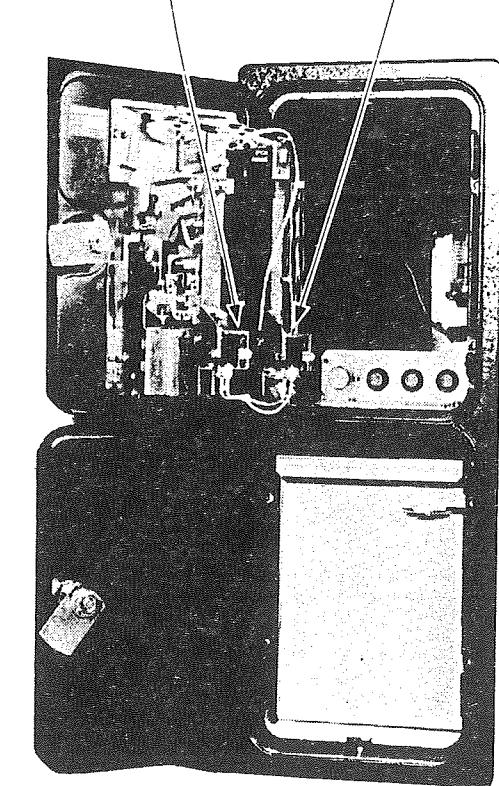
When the disk is malfunctioning, an alarm sound is emitted and ERROR MESSAGE is displayed. At this time, the test switch will not be operable, therefore, turn the power OFF to remedy the situation.

8. DIP SWITCH SETTING

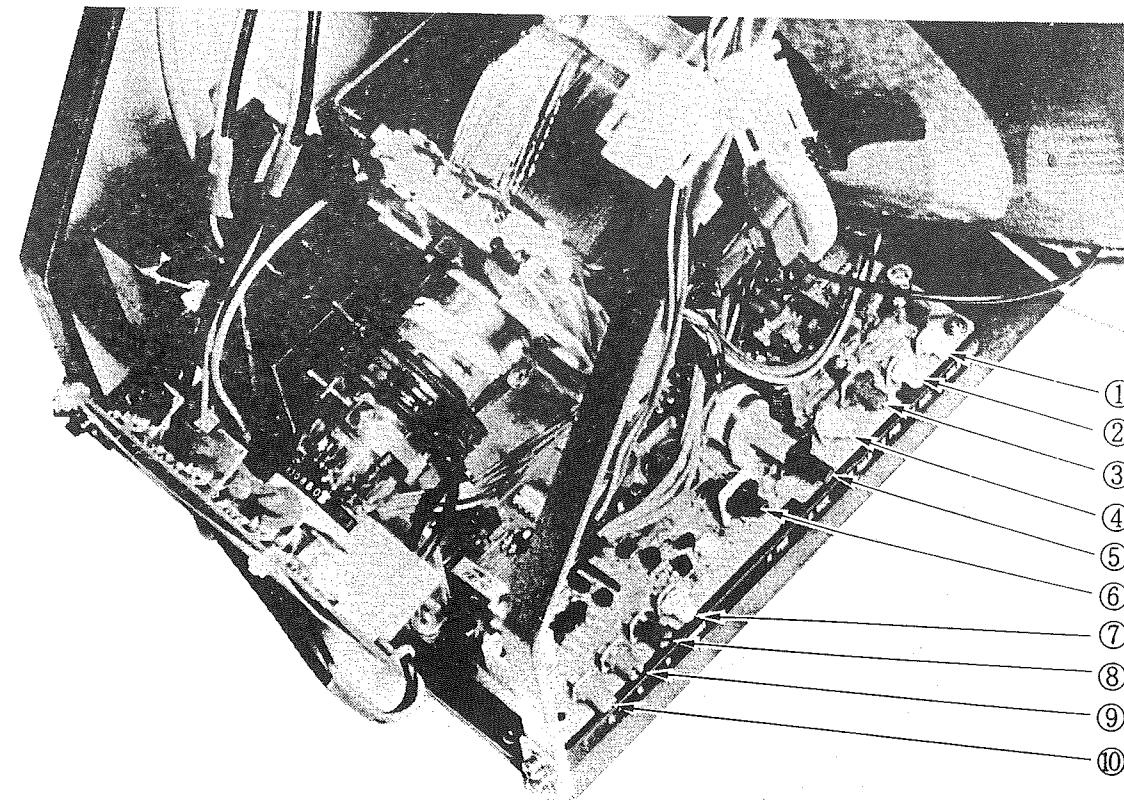
COIN/CREDIT OPTION SWITCH SETTING					DIP	SW #1			
OPTION		1	2	3	4	5	6	7	8
1 COIN	1 CREDIT	OFF	OFF	OFF	OFF				
1 COIN	2 CREDITS	ON	OFF	OFF	OFF				
1 COIN	3 CREDITS	OFF	ON	OFF	OFF				
1 COIN	4 CREDITS	ON	ON	OFF	OFF				
1 COIN	5 CREDITS	OFF	OFF	ON	OFF				
1 COIN	6 CREDITS	ON	OFF	ON	OFF				
2 COINS	1 CREDIT	OFF	ON	ON	OFF				
3 COINS	1 CREDIT	ON	ON	ON	OFF				
4 COINS	1 CREDIT	OFF	OFF	OFF	ON				
2 COINS	3 CREDITS	ON	OFF	OFF	ON				
2 COINS	1 CREDIT								
4 COINS	2 CREDITS								
5 COINS	3 CREDITS								
6 COINS	4 CREDITS								
2 COINS	1 CREDIT								
4 COINS	3 CREDITS								
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	5 CREDITS								
1 COIN	1 CREDIT								
2 COINS	3 CREDITS								
FREE PLAY		ON	ON	ON	ON				
					COIN SW				
						COIN SW			



PLAYER 2 PLAYER
COIN SW

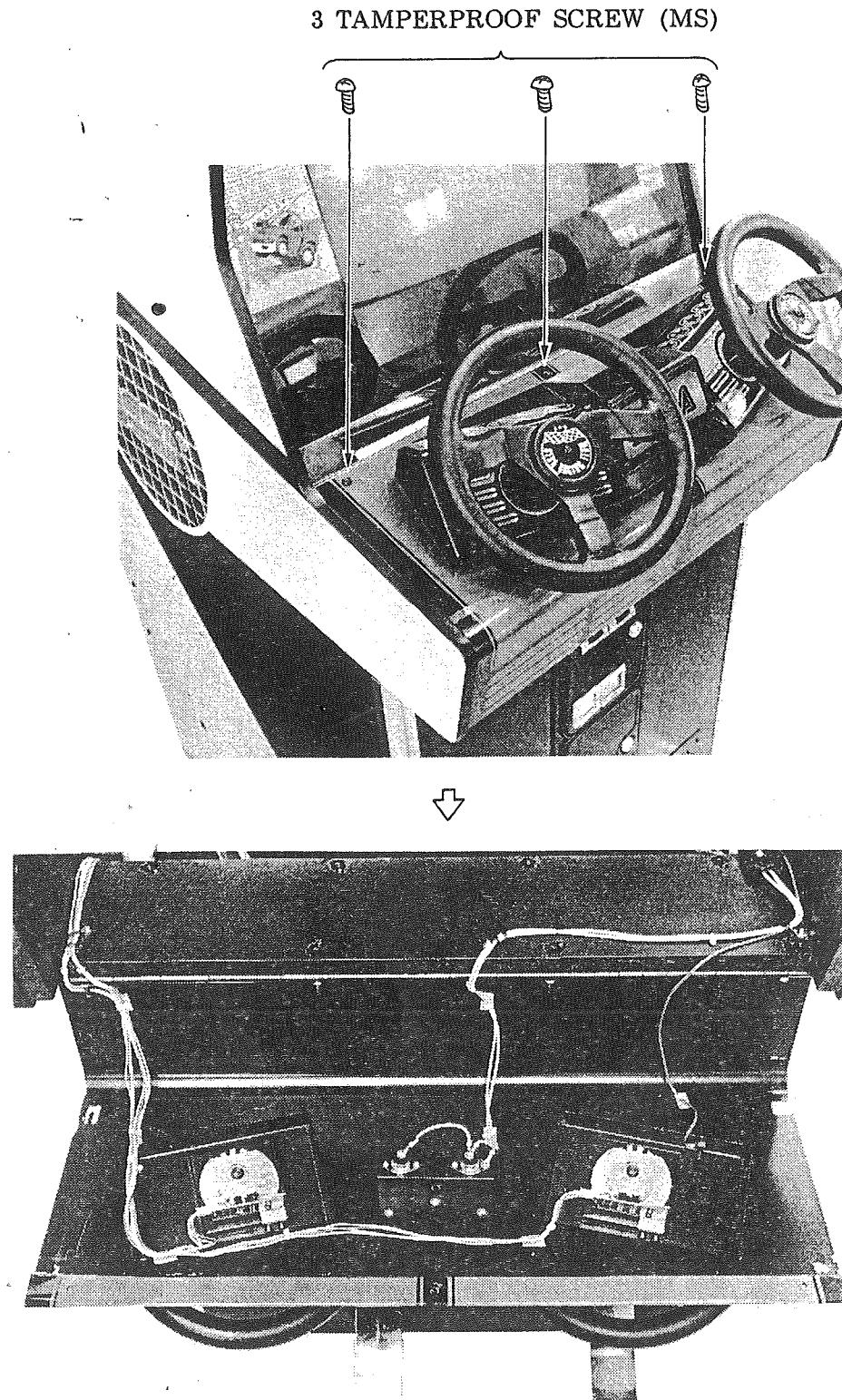


9. 20 INCH MONITOR



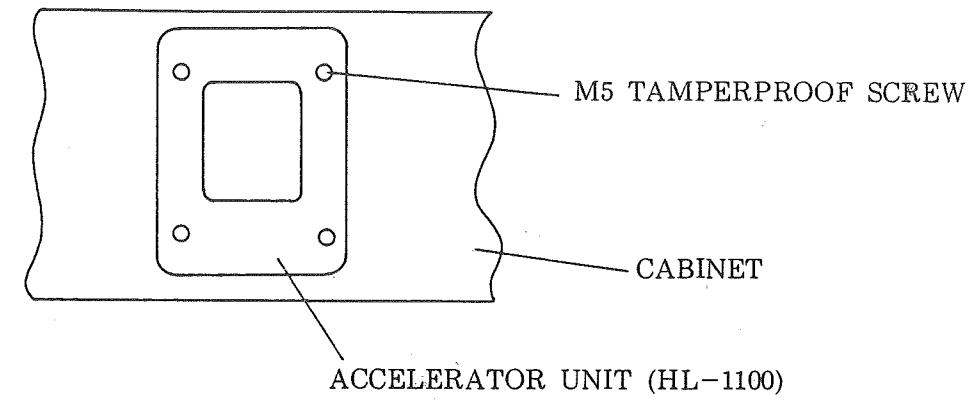
- ① V. HOLD
 - ② V. SIZE
 - ③ V. POSITION
 - ④ H. HOLD
 - ⑤ H. SIZE
 - ⑥ H. POSITION
 - ⑦ BRIGHT
 - ⑧ B. GAIN
 - ⑨ G. GAIN
 - ⑩ R. GAIN

10. LAMP REPLACEMENT

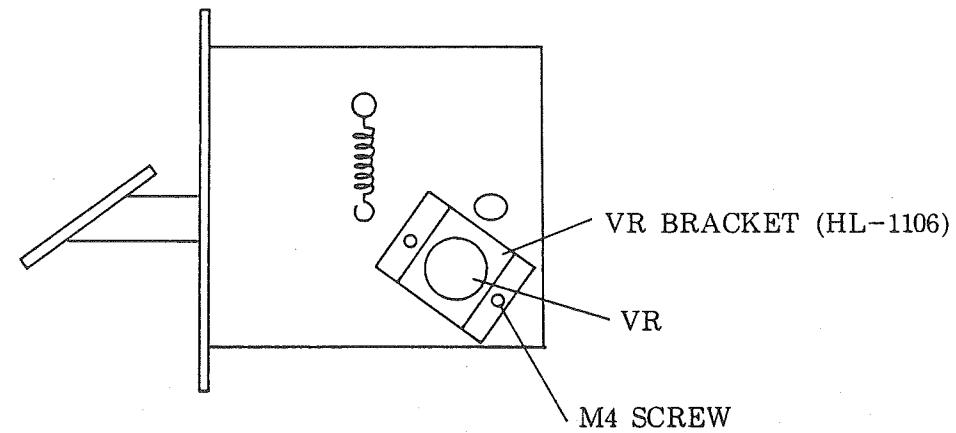


As shown above, take off the 3 tamperproof screws M5, open the control panel, take off the M4 screws and replace the lamp.

11. ACCELERATOR'S VR REPLACEMENT



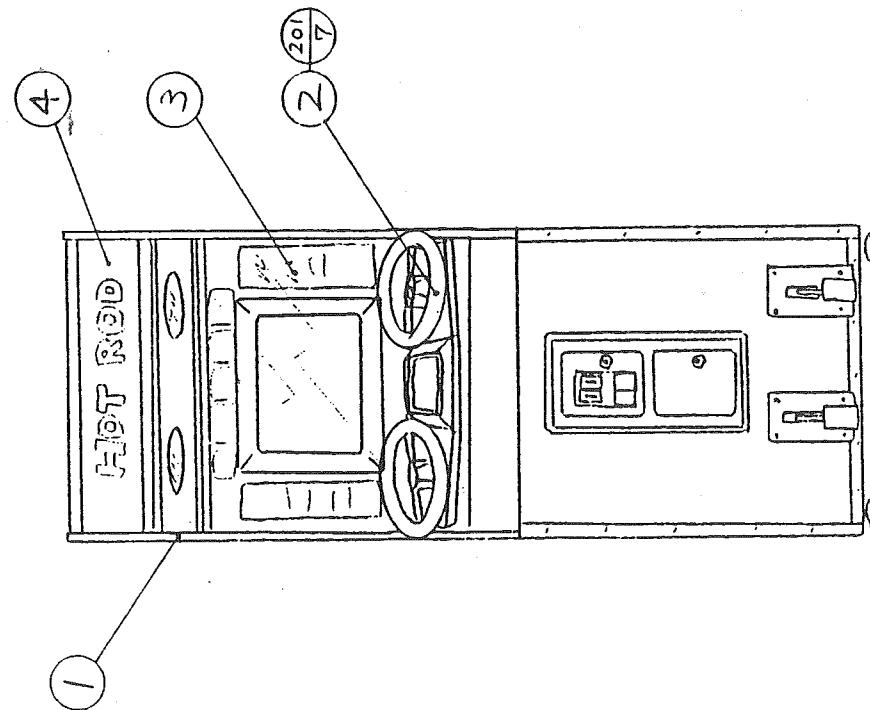
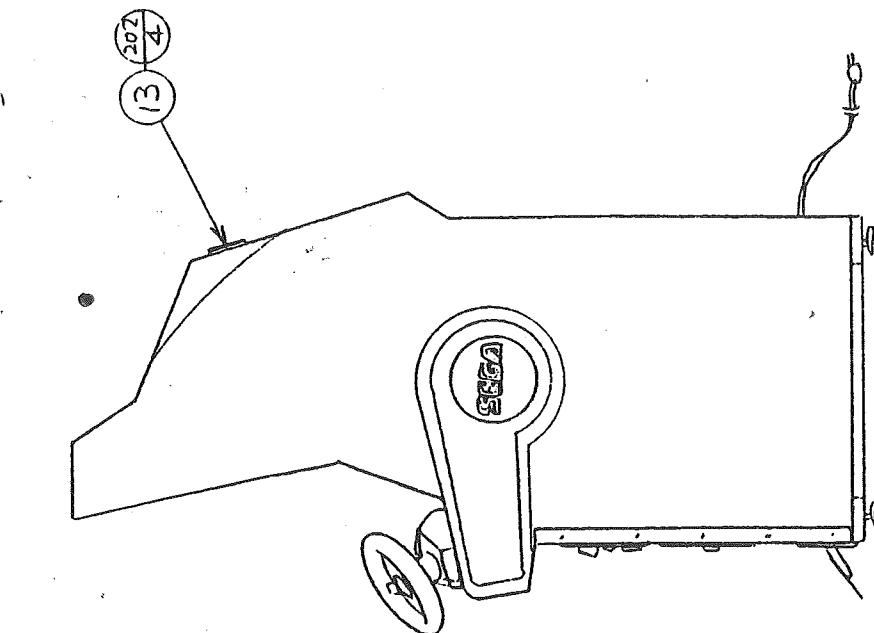
- 1) First, take off the 4 M5 TAMPERPROOF SCREWS and remove the ACCELERATOR UNIT from the CABINET.



- 2) Take off the 2 M4 SCREWS and the VR BRACKET, and replace the VR.
When installing the new VR, make sure that it has been fully turned to the right.

12. PARTS LIST

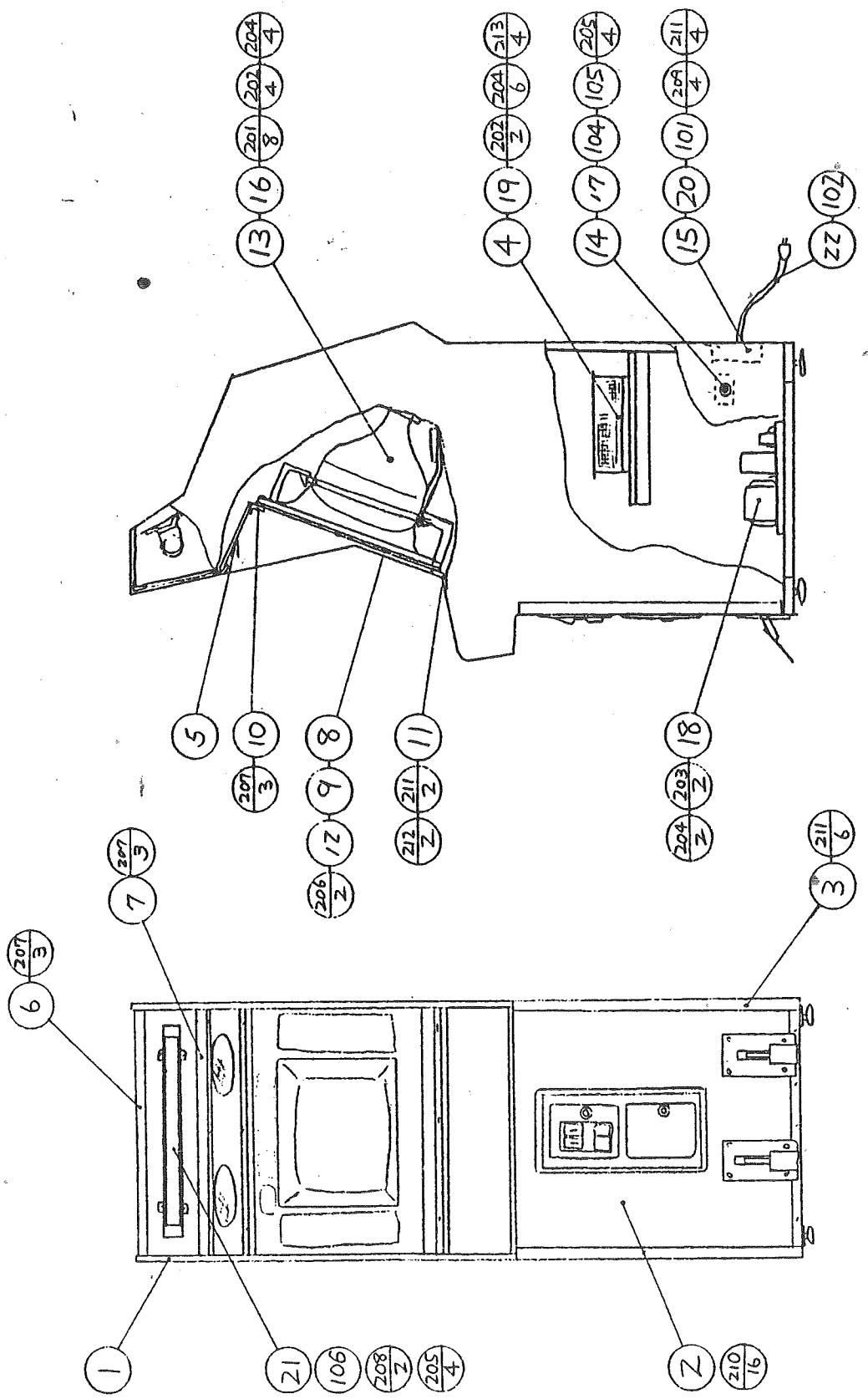
① TOP ASSY HOT ROD 2P U/R USA 25¢ (UP-00001) (D-1/2)



① TOP ASSY HOT ROD 2P U/R USA 25¢ (UP-00001) (D-2/2)

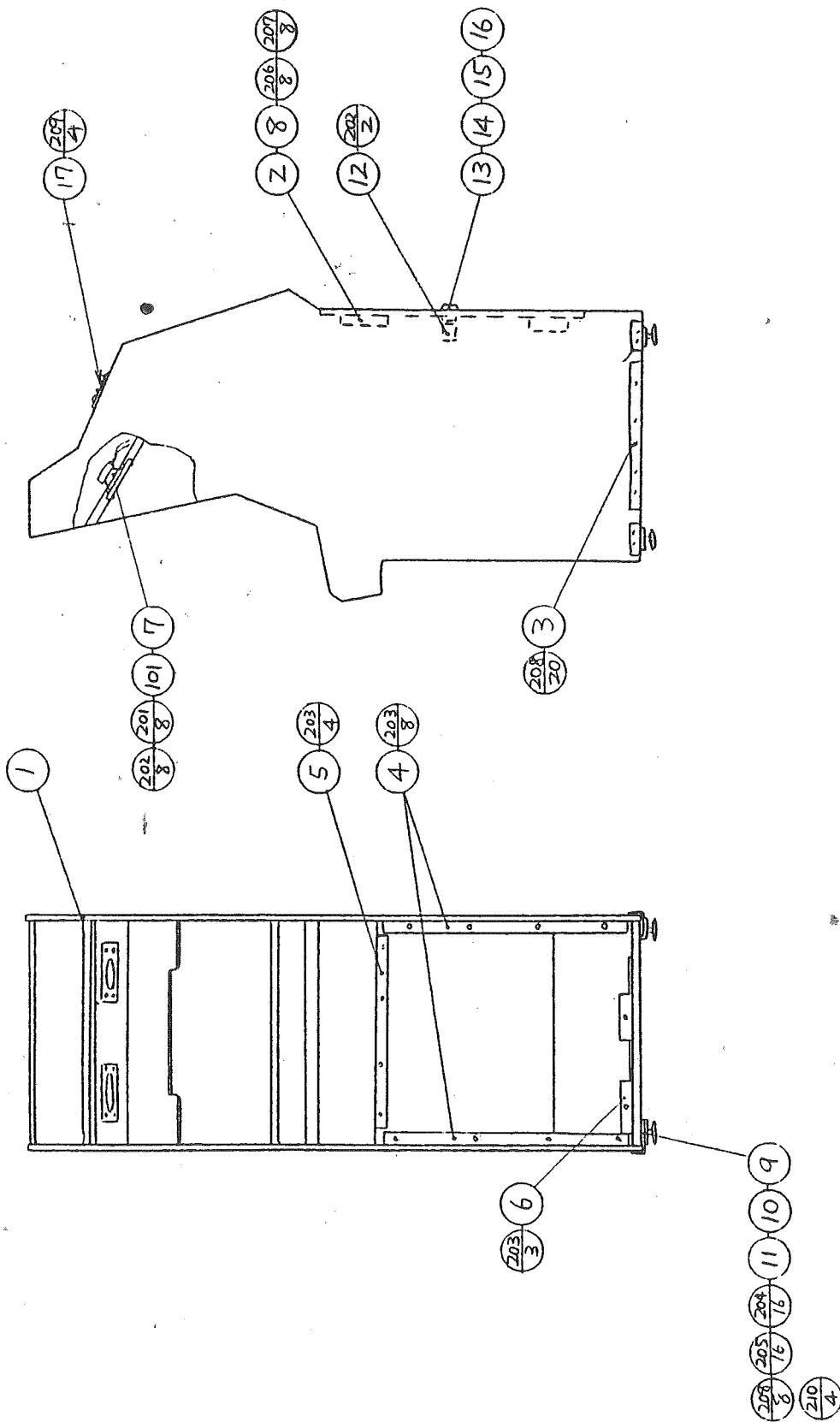
ITEM NO.	PART NO.	DESCRIPTION
1	UP-1000	ASSY CABI COM 24K TWIN W/ACCEL
2	UP-2000	ASSY CONTROL PANEL HANDLE
3	422-0246-01	TV MASK HOT ROD 2P
4	423-0087	TOP PANEL HOT ROD
5	420-5888	OWNERS MANUAL HOT ROD 2P ENG
6	421-5800-72	ORIGINAL SEAL HOT ROD
7	421-6120	STICKER SEGA USA
8	421-6119-91	STICKER FCC
9	421-6709	STICKER SERVICE INSTR ENGLISH
10	421-6671	STICKER DANGER HIGH VOLTAGE
11	421-7174-01	ADJ & I/O INSTR SHEET HOT ROD ENG
12	420-5889	DISPLAY MANUAL "20"
13	117-5123	NAME PLATE ELEC SPEC USA
14	SGB-1035X	KEY BAG
15	SGM-2675	POLYETHYLENE BAG 240×370
16	SGM-2333	POLYETHYLENE COVER 1100×1000×1800
17	421-6594	STICKER SERIAL NO. INFO
18	833-6570-01	GAME BD HOT ROD (W/O SECVRITY)
	220-5130	VOL CONT B-5K OHM
	540-0006-01	WRENCH FOR TMP SCR DUAL TYPE M4
	540-0007-01	WRENCH FOR TMP SCR DUAL TYPE M5
	540-0015-01	WRENCH FOR TMP SCR DUAL TYPE M6
	390-5227	LAMP 140V 10W
	HL-1105	EXT SPRING
19	421-7202-13	DENOMINATION SHEET 2×25¢
20	421-7202-14	DENOMINATION SHEET 3×25¢
21	421-7202-15	DENOMINATION SHEET 25¢
201	008-0520	TMP PRE SCR TH M5×20
202	046-0001	SCR NAIL THH STNLS 1.5×16 (FOR NAME PLATE)
203	006-3110	W SCR FH 3.1×10 (FOR BOARD)
		SPARE PARTS (IN CASHBOX}
		IN CASHBOX

② ASSY CABI COM 24K TWIN W/ACCEL (UP-1000) (D-1/2)



③ ASSY SUB-CABINET (UP-1001)

(D-1/2)

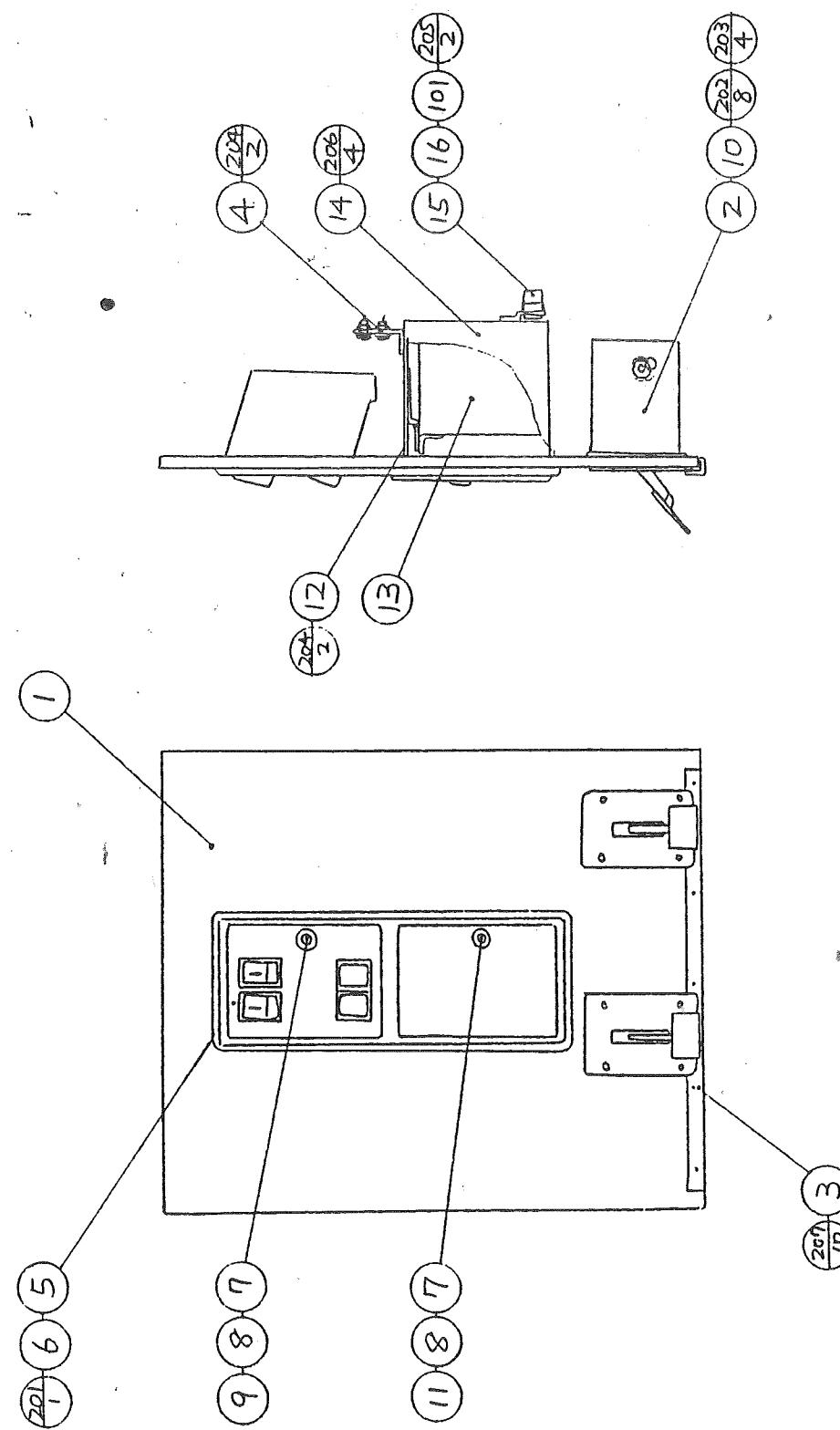


③ ASSY SUB-CABINET (UP-1001)

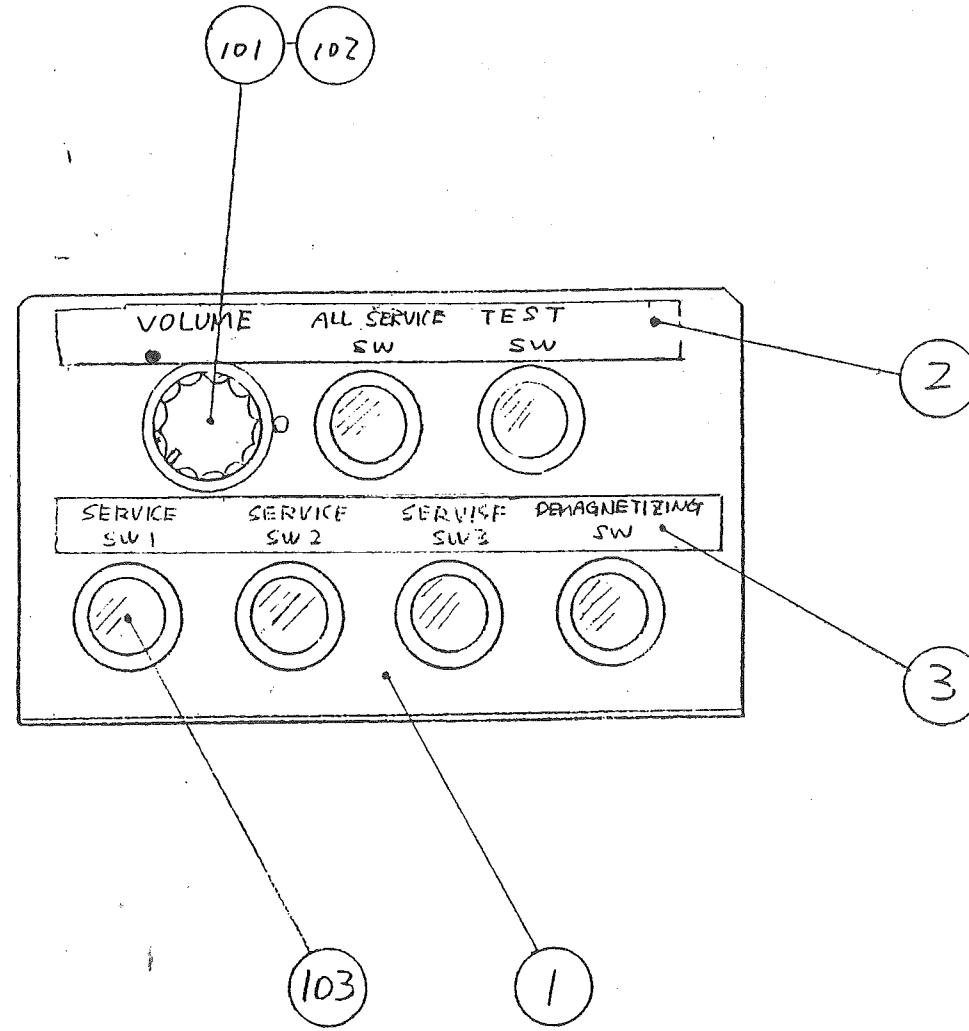
(D-2/2)

ITEM NO.	PART NO.	DESCRIPTION
1	UP-1002	WOODEN CABINET
2	UP-1003	BACK DOOR
3	UP-1004	SIDE PROTECTOR
4	UP-1005	HOLD BRACKET
5	UP-1006	DOOR HOLD BRACKET UPPER
6	UP-1007	DOOR HOLD BRACKET LOWER
7	UP-1008	SPEAKER BOARD
8	HG-1622	HINGE 148
9	TI-1079	LEG ADJ BRKT
10	601-0455	LEG ADJUSTER
11	TX-1704	PROTECTOR A
12	105-5038	STOPPER
13	220-5045-01	KEY MASTER FOR 220-5044-01
14	220-5044-01	MAG LOCK MA W/O KEY
15	117-0062	PLATE LOCK RETAINER
16	DP-1167	TNG LKG
17	UP-1018	AIR VENT
101	130-5001	SPKR 80HM Ø 120
201	000-0416-FS	M SCR PH W/FS M4×16
202	005-3113-F	W SCR RH W/F M3.5×16
203	000-0410-FS	M SCR PH W/FS M4×10
204	000-0525	M SCR PH M5×25
205	061-0005	SPR WSHR M5
206	031-0525-B	CRG BLT BLK M5×25
207	051-0005	FLG NUT M5
208	046-0001	SCR NAIL THH STNLS 1.5×16
209	008-0416	TMP PRF SCR TH M4×16
210	059-0007	HEX NUT 3/8-16

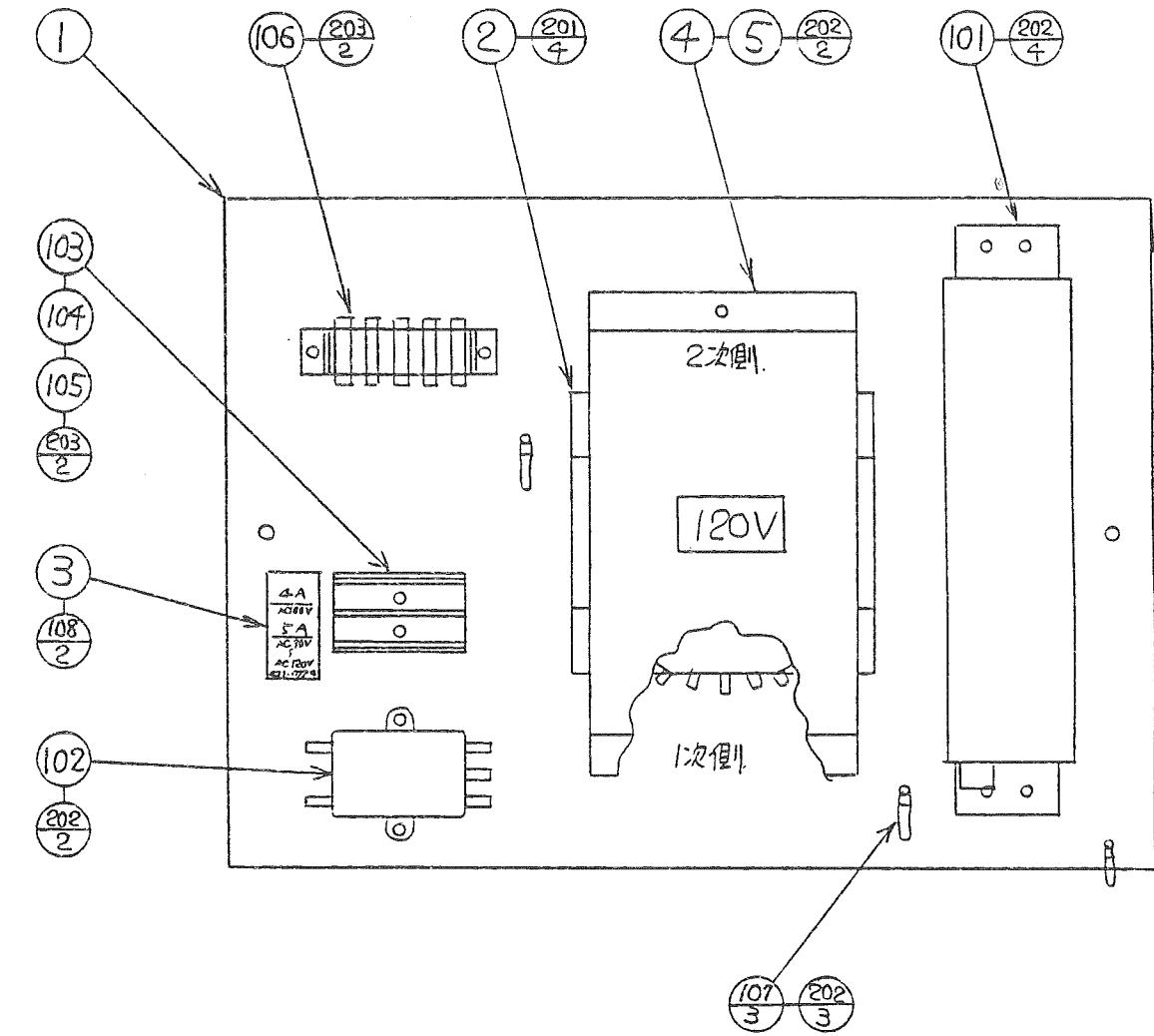
④ ASSY FRONT DOOR TWIN W/ACCEL (UP-1100) (D-1/2)



⑤ SW UNIT (UP-1104)



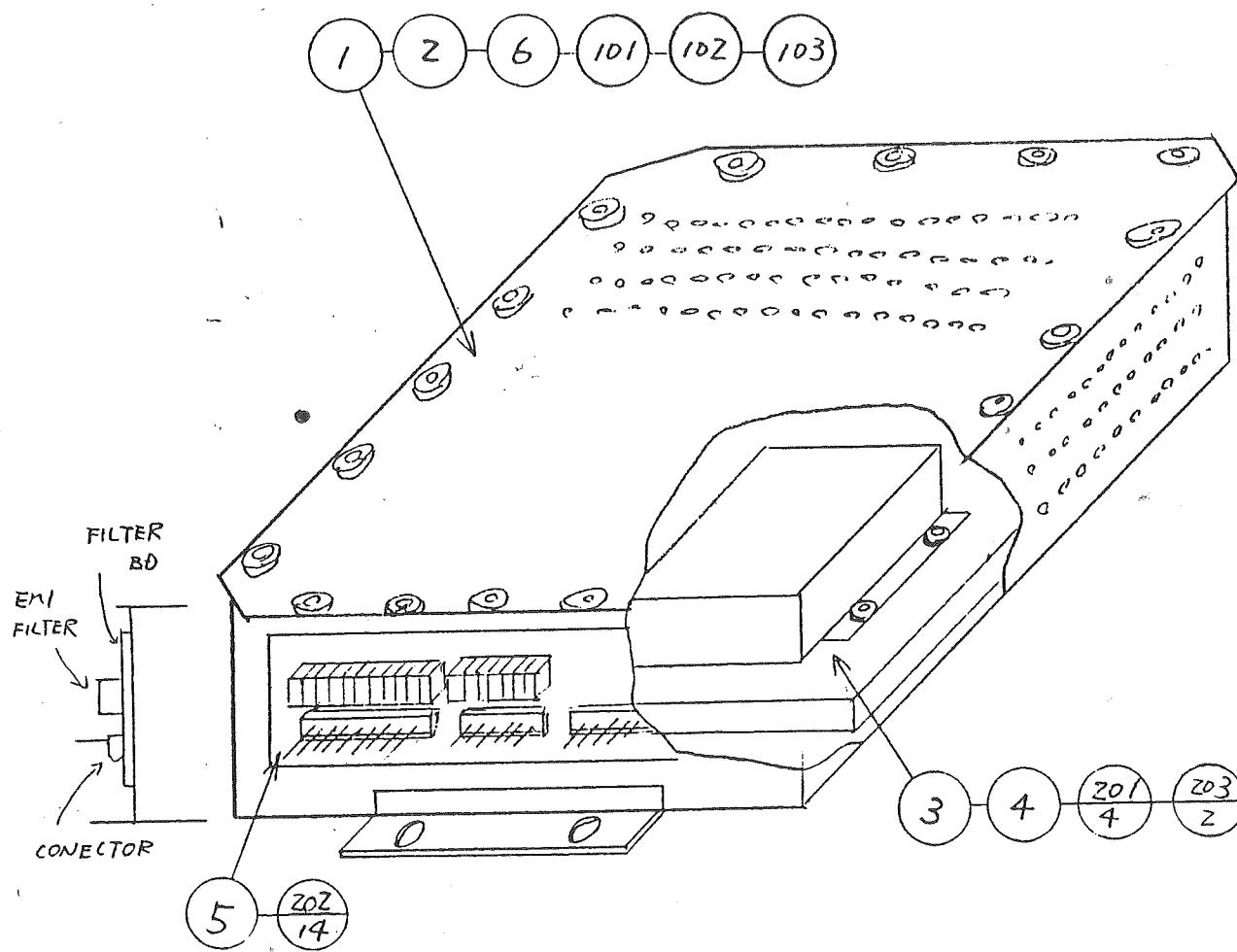
⑥ ASSY PWR SPLY FOR USA (UP-4000)



ITEM NO.	PART NO.	DESCRIPTION
1	UP-1105	SW BRACKET
2	421-7228	STICKER SW A
3	421-7229	STICKER SW B
101	220-5219	RHEO STAT 100Ω 10W
102	601-0042	KNOB 22mm
103	509-5028	SW PB 1M

ITEM NO.	PART NO.	DESCRIPTION
1	UP-4001	BASE
2	560-5131	PWR XFMR 90-240V 100V 2.5A
3	421-7224	STICKER FUSE INSTR
4	RA-4002	COVER
5	421-6690-01	STICKER 120V
101	400-5080	SW REGU AC90~240V +5V 7A +12V 1.5A
102	270-5020	NOISE FILTER AC250V 6A
103	514-0064	FUSE HOLDER 2P W/COVER
104	514-0034	FUSE 5A 6.4×30mm
105	514-0040	FUSE 4A 6.4×30mm
106	117-5167	TERM PLATE 5P-2P×2 SHORT
107	280-0419	HARNESS LUG
108	601-0769	STAPLE MAX #3
201	000-0412-FS	M SCR PH W/FS M4×12
202	005-3110	W SCR RH 3.1×10
203	005-3120	W SCR RH 3.1×20

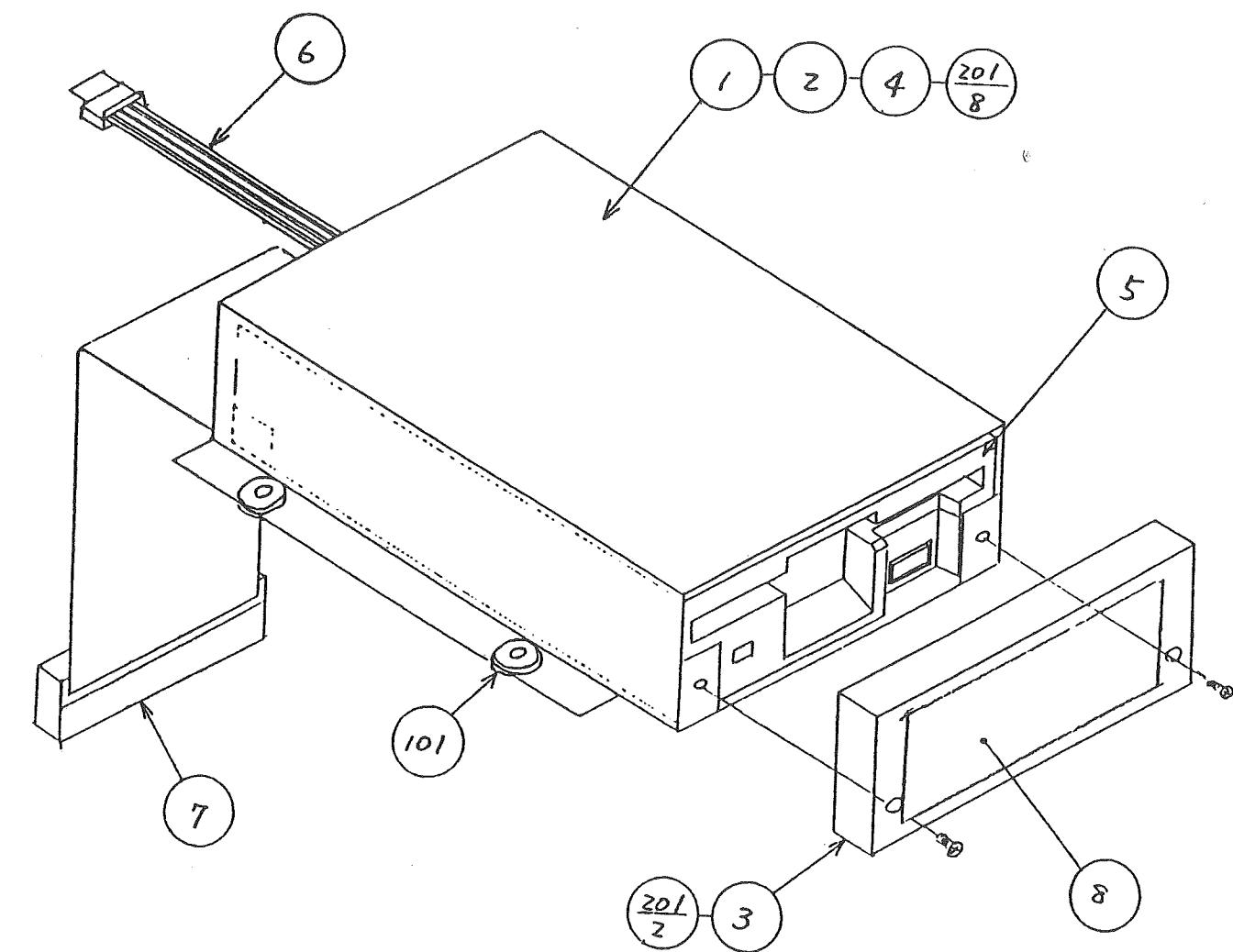
⑦ ASSY SHIELD CASE (UP-4100)



ITEM NO. PART NO. DESCRIPTION

1	HL-4101	SHIELD CASE
2	HL-4102	SHIELD LID
3	HL-4201	GAME BD BASE
4	610-0216-01	ASSY FDD UNIT W/CASE
5	839-0197	FILTER BD UP-CABI
6	421-6709	STICKER SERVICE INSTR ENG
101	280-5008	CORD CLAMP Ø15
102	280-5079	NXLATCH GROMMET
103	280-5080	NYLATCH PLUNGER
201	000-0414-F	M SCR PH W/F M4×14
202	010-0306-F	S-TITE SCR W/F M3×6
203	053-0005	WING NUT M5

⑧ ASSY F.D.D. UNIT W/ICASE (EXPORT) (610-0216-01)

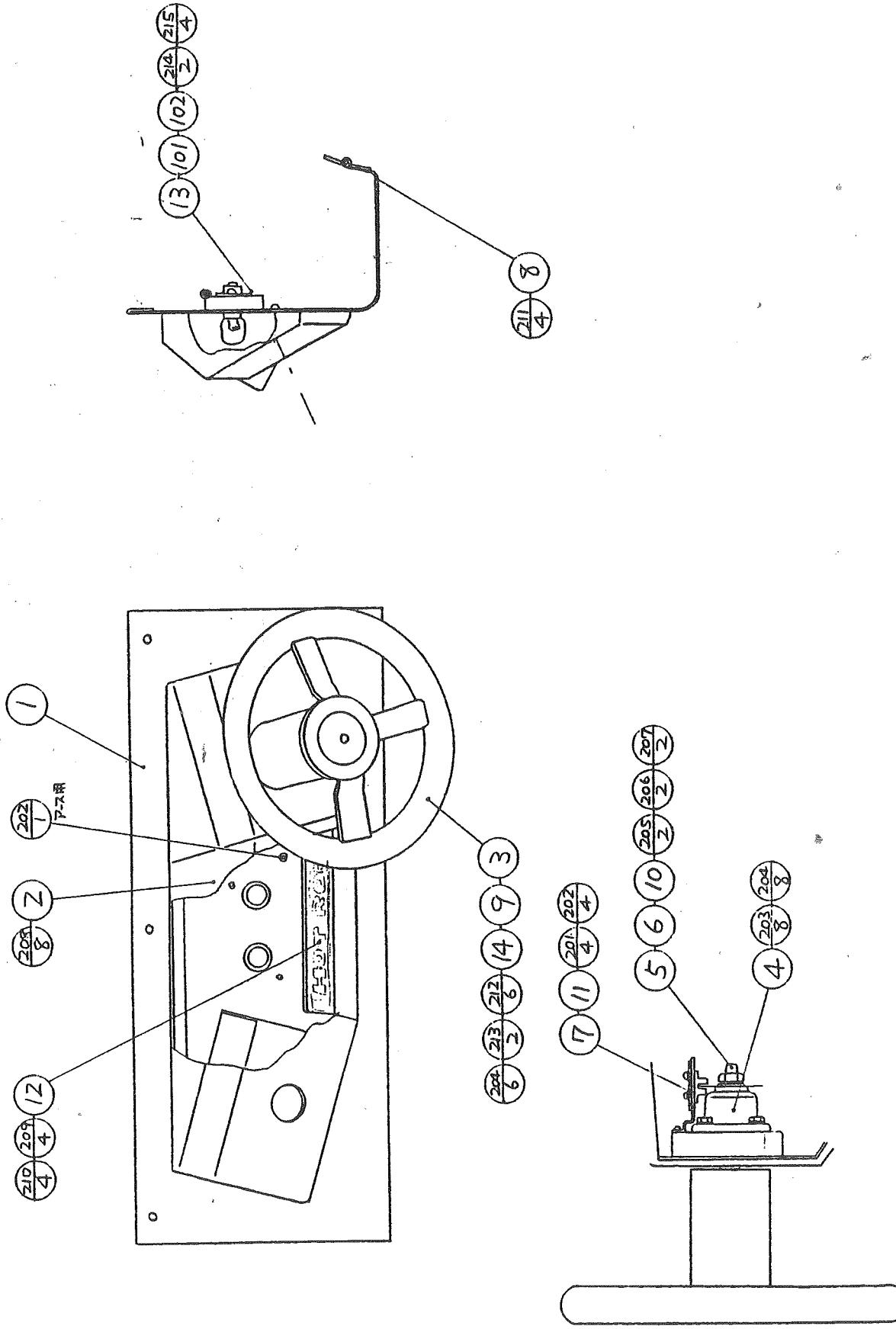


ITEM NO. PART NO. DESCRIPTION

1	HL-4202	FDD BASE
2	HL-4203	FDD COVER
3	HL-4204	FDD LID
4	HL-4205	SASH RUBBER 110
5	610-0198	ASSY FDD UNIT 3.5 TYPE
6	600-5661	CONN FEM 4P×2
7	600-5672	ASSY FEM & FLCA 34P
8	421-7209-01	STICKER FDD COVER ENG
101	601-6073	RUBBER GROMMET
201	000-0308-FS	M SCR PH W/FS M3×8

(9) ASSY CONTROL PANEL HANDLE (UP-2000)

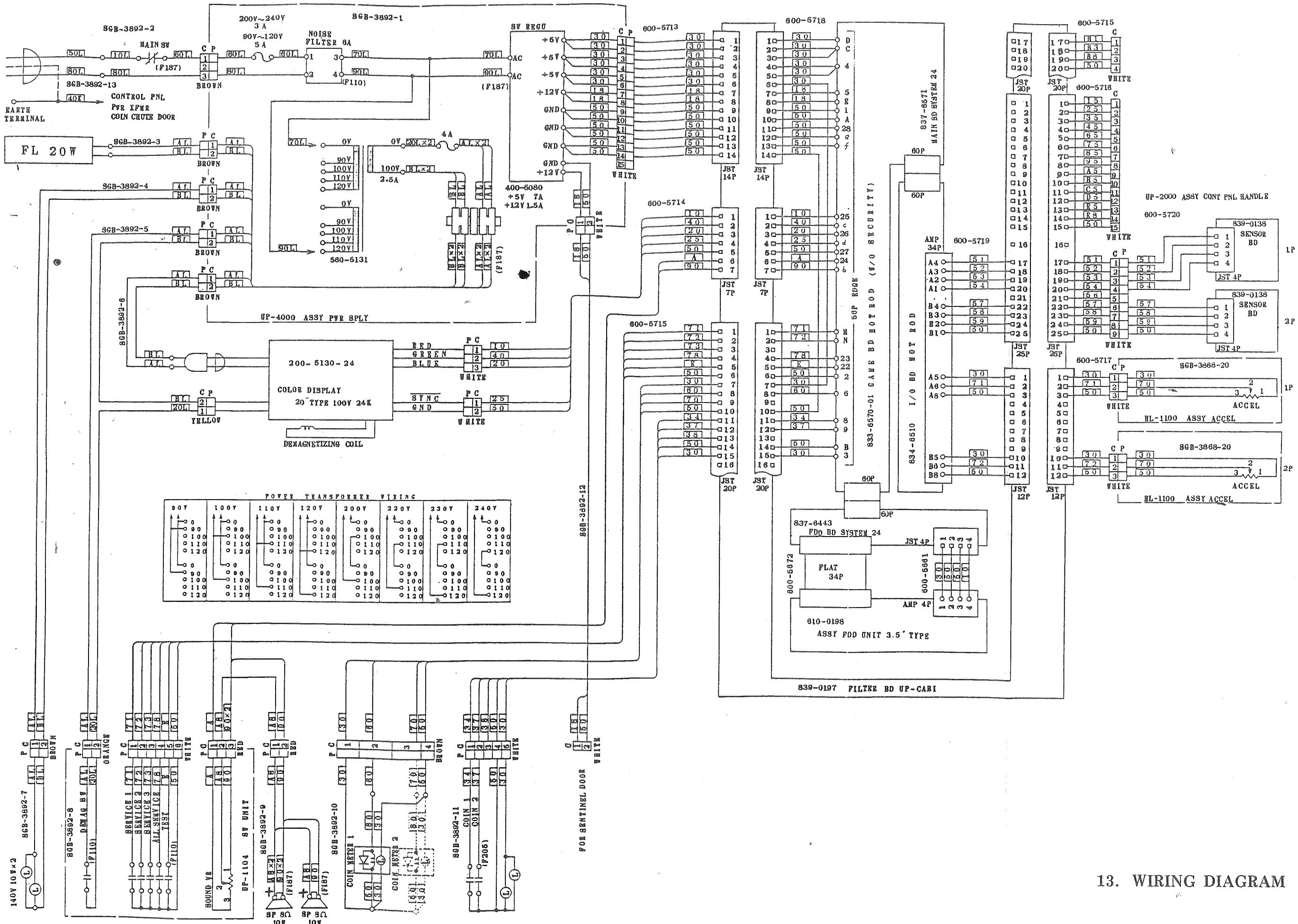
(D-1/2)



(9) ASSY CONTROL PANEL HANDLE (UP-2000)

(D-2/2)

ITEM NO.	PART NO.	DESCRIPTION
1	UP-2001	CONTROL PANEL BASE
2	UP-2002	CONTROL COVER
3	KR-1121X	STEERING HANDLE ϕ 270
4	HL-2001	HOUSING
5	UP-2003	STEERING SHAFT
6	HL-2003	SHAFT STOPPER
7	UP-2004	CENSOR BOARD BRKT
8	UP-2005	HINGE 660
9	HL-2009	HANDLE SHAFT COVER
10	106-0067	COOPLER DISK
11	839-0138	SENSOR BD
12	UP-2006	DESIGN PLATE
13	UP-2007	LAMP BASE
14	HL-2010	EMBLEM PLATE
101	390-5227	LAMP 140V 10W
102	214-0105	BULB SKT T19
103	280-0425	CORD CLAMP ϕ 10
201	000-0308-FS	M SCR PH M3x8 W/FS
202	000-0408-FS	M SCR PH M4x8 W/FS
203	030-0620	HEX BLT M6x20
204	061-0006	SPR WSHR M6
205	050-0010	HEX NUT M10
206	060-0010	FLT WSHR M10
207	061-0010	SPR WSHR M10
208	008-0408	TMP PRF SCR TH M4x8
209	031-0420-B	CRG BLT BLK M4x20
210	051-0004	FLG NUT M4
211	008-0508	TMP PRF SCR TH M5x8
212	029-0038	TMP PRF SCR BH BLK M6x20
213	029-0167	BTN HD SCR HEX SKT BLK M4x30
214	000-0420-FS	M SCR PH W/FS M4x20
215	005-3113-F	W SCR PH W/F 3.1x13



13. WIRING DIAGRAM

SEGA®

HOT ROD

UPRIGHT TYPE

OWNER'S MANUAL



ASSEMBLED BY:
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NORTH CIRCULAR ROAD,
LONDON NW10 0QT,
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