移動、搬運時

# ▲ 注意

●本機內部裝有顯示器、電子元件、精密器件等,不耐震動和沖撞的零件。移動和搬運時, 應精心操作。千萬不要翻倒橫放。



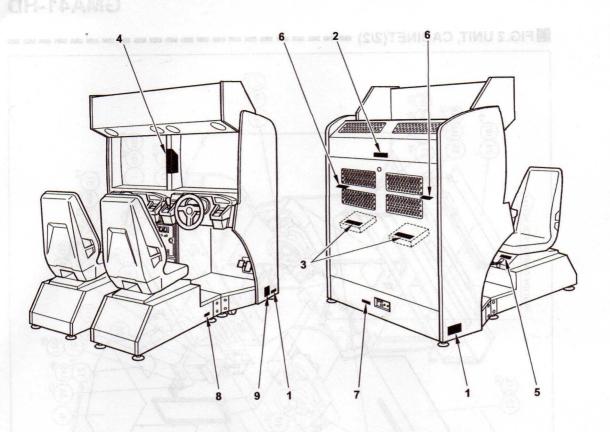
- ●移動本機前,請先切斷電源開關,從插座上拔下電源插頭,從機體上卸下電源軟線 和通信用纜線。
  - ·不可踩蹋或牽拉電源軟線和通信用纜線,否則,可造成事故和破損。



- ●移動本機前,務必將座席裝置和本體裝置分離后,將十二支可調支腳調至最上面, 用腳輪移動。
  - 否則會造成破損或故障。
- ●移動各裝置時,不可施加過份的力量。
  - · 否則翻倒時造成事故和破損。
- ■顯示器裝置根據推動方向會翻倒。移動時應面對屏幕向左右方向推動。在斜面或臺階處移動時必須由兩個人以上進行。
  - · 否則翻倒時造成事故和破損。
- ●移動本產時,不可強行向機體開關部位和可動部位施加過份的力量。
  - · 否則,可致受傷或事故,破壞機器本體。

## 請留意

- ●本機的設置、操作、檢查、打掃、移動及搬運,請遵照本書所載步驟及內容進行,確保安全。
- ●不要揭下貼在本機上的"警告""注意"等標簽。
- ●不要在相當於間接性警告或注意的狀態下,設置、操作、檢查、打掃、移動及搬運等。
- ●因轉讓等,本機的所有者發生變化時,務必將本書轉交給新的所有者。



### 警告標簽等的種類

#### **A WARNING**

Ensure all leg levellers are securely set and game cabinet is level.

2

#### **A WARNING**

**ELECTRICAL SHOCK HAZARD** DO NOT OPEN EXCEPT FOR SERVICE.



AKEEP FINGERS AWAY

A HAZARDOUS VOLTAGE

weight 275kg(606.4lb)

8 40kg(88.2lb) Weight

7

MODEL	GMA41-TB THRILL DRIVE2		
POWER	110 v / 60 Hz		
POWER	500W(MAX)		
MANUFACTURER	KONAMI CORPORATION		
DATE OF MANUFACTURE	March,2001		
WEIGHT	355kg (782.8lb)		
SERIAL NUMBER			

KONAMI.

INDOOR USE 以上標注內容僅爲示例。 不同輸出地區,其標

注內容有所不同。

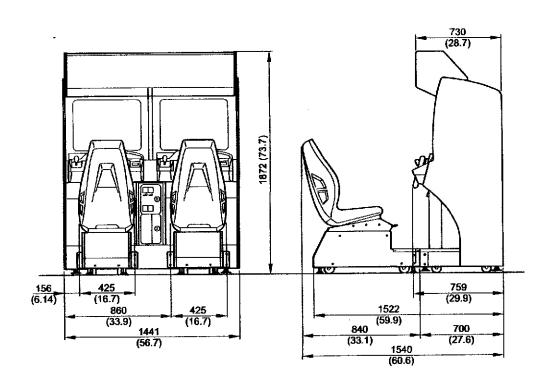
▲注意(ちゅうい) / CAUTION

技術者以外は絶対に分解しないでください。けがや故障の原因になります。

分割する前に、多ず基準から確認を施コネクターを描いてください。 経験・福祉の関連になります。 使用語は年度が軽くなっていることがあります。 他り聞いは注意してください。 ケースのドーダくには、米や展温の入った信義や様を置かないでください。 水分や質像が内部に入ると、影響や経緯の原因になります。 業れた手では離らないでください。感覚することがあります。

商品の交換は、あず当社第2のものを使用してください。 それ以外ものを使用したり差別することは絶対にしないでください。 大変や異常作品、新聞の限速になります。

15



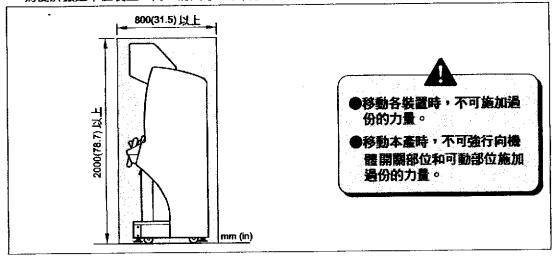
	規	格	

外形尺寸	參閱上圖 mm(in)
重 量	總重量 :約 355kg (782.8lb) 本體裝置 :約 275kg (606.4lb) 座席裝置 :約 40kg (88.2lb)(一個)
額定消耗電力	¥GMA41-TB: 500W (MAX) ¥GMA41-HD: 395W (610VA)
顯 示 屏	29英吋顯示屏
使用條件	溫度10~35℃(50~95ßF) 濕度20~80%(不可結霜)
附属物品	・使用説明書       本書         ・記憶卡       2         ・錢箱鑰匙       2         ・維修用鑰匙       2         ・連接件A       2         ・連接件B       2         ・連接件用固定件(螺栓M8×35L/平整個/彈簧整圈)       16         ・電源軟線       1         ・通信用纜線       1         ・編號標簽       1

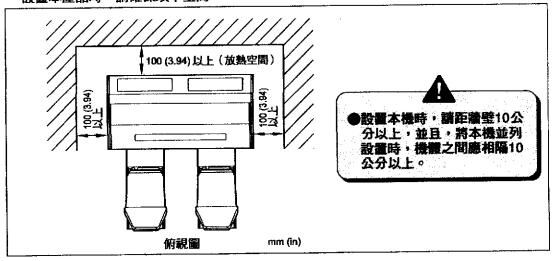
<sup>■</sup>萬一附屬品不全或發現其他次品時・請惠詢當地的經銷店。●因提高產品性能等理由,本產品的規格不經預告可能有所變更。

#### ■有關搬運與設置的尺寸 ======

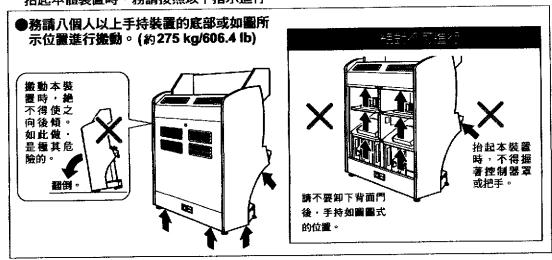
為便於搬進本體裝置,門口的尺寸大小需按下列所示進行。



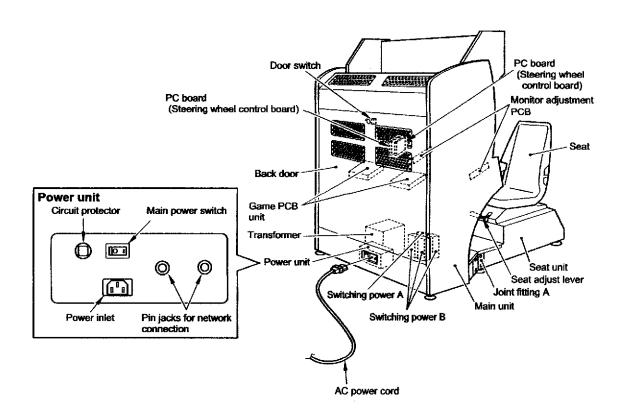
設置本產品時,請確保以下空間。

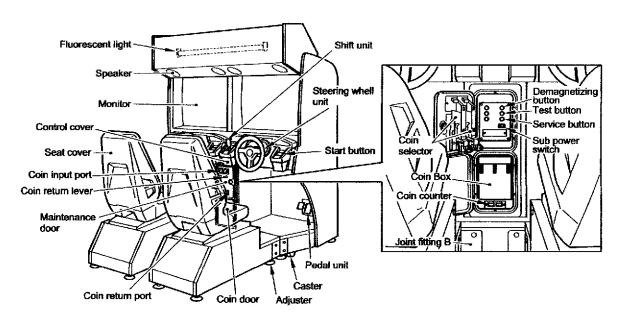


抬起本體裝置時,務請按照以下指示進行。



# 2 Names of parts





## 3 How to play

"THRILL DRIVE 2" is the second version of a unique driving game with the concept "Crisis and panic management when driving". You can maneuver your car, jumping, tilting sideway, rushing up and down a cliff and doing many other terrific and comical car actions out of the real world. Try to reach the goal within the time limit. In a networked play, up to 4 players can drive in competition.

### How to play 1 Put a coin(s) in the slot. The "SELECT CAR" screen appears. 2 Choose a player car on the "SELECT CAR" screen. Use the steering wheel to choose a car and step on the accelerator pedal or press the start button to decide it. If the shift lever is set to neutral, the AT (automatic transmission) mode is selected. If the lever is set to up side or down side, the MT (manual transmission) mode is selected. AT ..... Gearshift is not needed during the game play. MT ..... Gearshift is needed during the game play. When the player car is decided, the "SELECT COURSE" screen appears. 3 The following courses can be selected on the "SELECT COURSE" screen. JAPAN **EUROPE** ·U.S.A. When other players join the game, the course is decided by majority. In case of a tie, priority will be given to "JAPAN", "U.S.A." and "EUROPE" in this order. 4 When the above selection is made, what has been chosen will appear on the screen and the game will start. 5 If a player reaches the finish line within the time limit or the time is up, the game is over. When the game is over, the race results are displayed and the player's driving technique is judged by analysis graph or scores. ■ Joining the game halfway — — — — — — Nobody can join the game halfway.

Once the game is over, the player can not continue the game.

Continuing the game — — —

### KONAMI website ranking event = = = =

By setting "INTERNET RANKING" on the "GAME OPTIONS" screen to "YES", the player can join the ranking event in KONAMI website.

#### - Ranking-in the procedure -

- 1 A password is displayed when the player reaches the goal in the one-player mode and the game is over.
- 2 Note down the password and access the KONAMI homepage at the following website.

### http://www.konami.co.jp/am/AM\_English

- 3 Enter the specified items and get them registered for ranking in.
  - The above KONAMI website can be accessed from the player's computer or other terminal, not on the game machine.
  - The player is expected to pay the access cost.

The schedules and durations of ranking events will be separately introduced. (Keep in mind that those events will not be held for some reasons.)

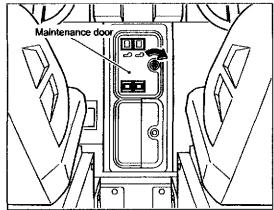
## 4 Opening and closing the doors

## 4-1 Opening and closing the maintenance door

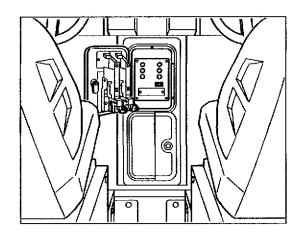
How to open the maintenance door ======



- •Take care not to apply any load or impact to the maintenance door when it is open.
- After closing the maintenance door, be sure to check that the door is locked securely.
- Insert the attached maintenance key in the maintenance door and turn it clockwise.



2 Open the maintenance door.



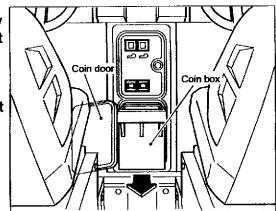
- How to close the maintenance door
- 1 Close the maintenance door.
- 2 Turn the maintenance key counterclockwise and draw it out.

## 4-2 Opening and closing the coin door

Opening and closing the coin door and removing the coin box = = = = =



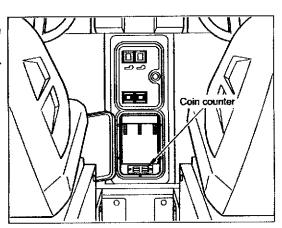
- •Take care not to apply any load or impact to the coin door when it is open.
- ·Securely lock the door for protection against burglaries.
- Note that the coin box is considerably heavy to take out if it is full of coins.
- Insert the attached coin door key in the coin door and turn it clockwise.
- 2 Open the coin door and take out the coin box.



#### Coin counter --

- You will find the coin box when the coin door is opened.
  The coin counter is located under the coin box.
  - •To move the coin counter onto the service panel, see page 44.

MEMO .



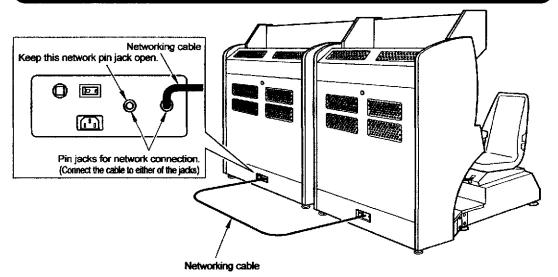
## 5 Networking and Game settings

### 5-1 How to networking the machine

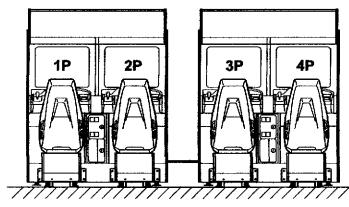
■ Using two sets of this product, up to four network-compatible machines can be interconnected for networked play. To enable the networked play, connect the accompanying networking cable to the network pin jacks of the cabinet.



- When using the game machine independently, do not connect anything to the pin jack for network connection.
- · For networking, leave open the not-to-be-used network pin jacks.
- •The network connection pin jack is dedicated to the "THRILL DRIVE 2" machine. Never use it for any other game machines and audio-visual equipment. Be sure to employ it to interconnect the same "THRILL DRIVE 2" machines.
- •Be sure to use the accompanying networking cable or the substitute cable described on page 60.
- •When the machines are networked, be sure to make the "NETWORK ID" settings in the "NETWORK OPTIONS" screen on page 32. Then make sure the networking is complete.



Networking example == =



## 5-2 Checking the game performance

When the power switch is turned ON, the self-diagnostic test will get started. The test results will be displayed on the screen. If the machine fails to switch on, check the main power switch and the sub power switch to see if they are both on.

(See page 42) Keep in mind that the power does not turn on if the back door is not tightly closed.



- For networking, be sure to connect with the same "THRILL DRIVE 2" machine.
- Do not change the DIP switch setting of the machine to other than factory setting.
- If an abnormality persists or the machine does not operate properly, immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.

#### Result of self test --

#### If test is OK

• The steering wheel and other components are automatically repositioned. The machine then goes to the game mode and the demonstration game gets started.

#### If any abnormality is detected

- · "BAD" or "HARDWARE ERROR (\*\*\*)" appears on the screen, and the checking is repeated.
- "SYSTEM WORK BACKUP DATA ERROR" appear, press the test button on the service panel. (The device settings will be back to the factory settings.)

If "OPTION SETTINGS BACKUP DATA ERROR." and "PRESS TEST SWITCH TO INITIALIZE." appear, press the test button on the service panel. (The settings will be back to the factory settings.)

If "RECORD BACKUP DATA ERROR." and "PRESS TEST SWITCH TO INITIALIZE." appear, press the test button on the service panel. (The course record will be back to the factory setting.)

If "BOOKKEEPING BACKUP DATA ERROR." and "PRESS TEST SWITCH TO INITIALIZE." appear, press the test button on the service panel. (The bookkeeping data will be back to the factory setting.)

If an abnormal display continues or the machine does not operate normally, immediately turn OFF the main power switch and contact your nearest dealer.

### 5-3 Repositioning the steering wheel and others

After the self-test, the positions of the steering wheel, accelerator pedal and brake pedal are corrected automatically.

Then "DO NOT TOUCH THE CONTROL DEVICES WHEN THE MACHINE IS BEING INITIALIZED." appears on the screen. With the message onscreen, never touch the steering wheel, accelerator pedal and brake pedal. At this time, the steering wheel turns itself several times clockwise and counterclockwise.

#### Result of position check =

#### If test is OK

•When the position check is over, the operation mode returns automatically to the game mode.

#### If any abnormality is detected -

The result of check is displayed as follows on the screen.

#### Steering wheel abnormal

The message "DEVICE ERROR (STEERING WHEEL)" appears on the screen. What to do ............ The steering wheel control exceeds the correctable range

or the steering wheel reaction device is out of order. Make the adjustment by referring to "7-4 Replacing and adjusting the potentiometer" in pages 48 to 50.

#### Accelerator abnormal

The message "DEVICE ERROR (ACCELERATOR)" appears on the screen.

What to do ........... The accelerator control exceeds the correctable range.

Make the adjustment by referring to "7-4 Replacing and

adjusting the potentiometer" in pages 51 and 52.

#### Brake abnormal

The message "DEVICE ERROR (BRAKE)" appears on the screen.

What to do ...... The brake control exceeds the correctable range. Make the

adjustment by referring to "7-4 Replacing and adjusting the potentiometer" in pages 51 and 52.

If any of the above signs is displayed, press the test switch on the service panel to go to the test mode. (The "MAIN MENU" screen shows up.) Then choose "I/O CHECK" to check the device which shows the error. If the "DEVICE ERROR (\*\*\*\*)" is still displayed after the adjustment, the device itself may be in trouble. Immediately turn OFF the main power switch, unplug the power cord and contact your nearest dealer. If the "GAME MODE" is selected on the "MAIN MENU" screen with some troubles of any devices, the game may not be played normally.

If an abnormality persists or the machine does not operate properly, immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.

#### Setting the time \_\_\_\_

If the timer is not set yet in the "BOOKKEEPING", the following message appears on the screen.

"PLEASE SET THE TIME FOR THE BOOKKEEPING"

Press the test button, and the "MAIN MENU" screen shows up instead in the test mode. Select the "BOOKKEEPING" screen and set the time. Without this setting, the above message appears each time the machine gets started.

## 5-4 Setting and adjustment of game mode

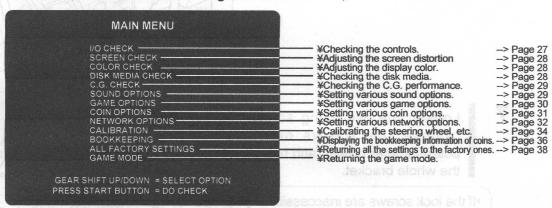
Manually make, check and change the settings for the screen displays and game contents.

#### Starting the test mode \_\_\_

- 1 Turn ON the power switch.
- 2 Press the test button on the service panel during the game mode demo (during the game mode demo of all the game machines in the case of networking). (Hold down the test button and turn ON the power switch. The current settings are cleared and the factory settings are restored.)
  - ·The main menu appears on the screen.

#### Quit the test mode

- 1 Choose the "GAME MODE" from the main menu by the shift lever.
- 2 Press the start button.
  - Then, the screen returns to game mode.



•If the time is not set yet, "> <" starts flashing around "BOOKKEEPING" to prompt you to set the system clock.

#### Selecting each mode = = = = =

How to select each mode from the main menu

·SELECT --> Move the shift lever up side or down side.

·SET --> Press the start button.

After selecting a mode, refer to the page on which that mode is described in details.

## 5-5 Mode descriptions patientles bas palestes 4-1

The original factory settings are displayed in green; the changed settings are displayed in red.

To change the settings, move the shift lever up side or down side to select an item,

and press the start button to enter it.

After the setting change, select "SAVE AND EXIT" and press the start button. The settings are saved automatically and the screen returns to the main menu. If "EXIT" is selected after the modification of the settings, the following message

will appear:

#### NEED TO PRESS START SWITCH YOU DID NOT SAVE. DO YOU WANT TO SAVE? [YES / NO]

Select "YES" or "NO" by shift lever up side or down side and set it by pressing the start button.

If "YES" is selected, the new settings will be saved with "NOW SAVING" displayed and the screen will return to the main menu.

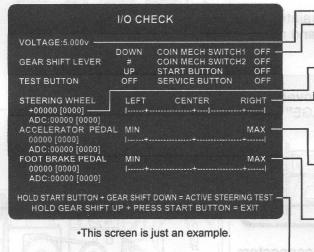
If "NO" is selected, the new settings will not be saved with "NO MODIFICATION" displayed.

 If "FACTORY SETTINGS" is selected and the start button is pressed, all the settings of the mode will be back to the factory ones.

### I/O CHECK

Checking the controls

Mode for checking the performance each control. To return to the main menu screen, hold press the start button and move up side the shift lever.



·If the steering wheel or the accelerator pedal is not correctly adjusted, make an adjustment by referring to "7-4 Replacing and adjusting the potentiometer" on page 48 to 52.

Shows the voltage of the game PCB unit. Shows the condition of each switch.

•ON .....The switch is on.
•OFF .....The switch is off. •ERROR .....The switch is defective.

The marker position changes to show the input value. ADC: Value before correction from the A/D converter.

Shows the value for the steering wheel in decimal

(hexadecimal) notation.

The steering wheel is set properly when it is fully turned clockwise and the red "I" mark comes to the "RIGHT" position as well as when it is fully turned counterclockwise and the mark comes to the "LEFT" position.

Shows the value for the accelerator pedal in decimal (hexadecimal) notation.

The accelerator pedal is set properly when it is released and the "I" mark moves to "MIN" as well as when it is fully pressed and the mark moves to "MAX".

Shows the value for the brake pedal in decimal

(hexadecimal) notation.

The brake pedal is set properly when it is released and the "I" mark moves to "MIN" as well as when it is fully pressed and the mark moves to "MAX".

Check the steering wheel reaction device by putting down side the shift lever while pressing the start button. The steering wheel turns automatically clockwise and counterclockwise by turns during checking. Then, make sure that the "I" mark moves accordingly to the right and left on the meter which shows the value for the steering wheel. Do not touch the steering wheel while this checking is conducted.

### **SCREEN CHECK**

Adjusting the screen distortion

Mode for checking the screen display.
Adjust the focus, distortion and size of the image on the screen while watching the crosshatch pattern. Use the monitor adjustment PCB to make adjustments.

To return to the main menu screen, press the start button. (See page 57)

### **COLOR CHECK**

Adjusting the display color

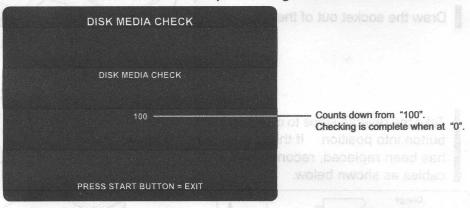
Mode for checking the display color.
Make the adjustment using the monitor adjustment PCB so that the colors of the color bars should appear properly graded and the background should become black sufficientry. Use the monitor adjustment PCB to make adjustment. (See page 57) To return to the main menu screen, press the start button.

### **DISK MEDIA CHECK**

Checking the disk media

Mode for checking the disk media
In this mode, the disk media check sums are checked one after the other. "OK" appears on the screen when not in trouble: "BAD" if in trouble. When the machine is put into this mode, tilt down the shift lever to start checking automatically.

Press the start button to interrupt checking or return to the main menu screen.



When the disk media have been completely checked, "OK" appears.

DISK MEDIA CHECK OK

If anything wrong is in the check results, "BAD" appears.
DISK MEDIA CHECK BAD

If "BAD" appears, immediately turn OFF the main power switch, unplug the AC power cord from the receptacle and contact your nearest dealer.

## C.G. CHECK

#### Checking the C.G. performance

Mode for checking the function of the C.G..

Watch the screen in this mode to make sure the images appear correctly. To return to the main menu screen, press the start button.



Two cubes are rotating entangled with each other.

Another cube is shown coming up the foreground and down the background and rotating alternately opaque and translucent.

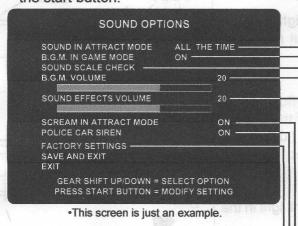
### **SOUND OPTIONS**

#### Setting various sound options

Mode for setting and checking the sound options.

Move the shift lever up side or down side to select an item, and press the start button to enter it.

To return to the main menu screen, select "SAVE AND EXIT" or "EXIT" and press the start button.



Turns on and off the demo play sound.

•ALL THE TIME ........ Sound always on.

•ONCE EVERY 4 CYCLES ....... Sound on every 4 cycles.

•COMPLETE OFF ....... Sound always off.

Turns on and off the background music during the

Background music on.
 Background music off.

You will hear a "do-re-mi..." musical scale from the left speaker first and then from the right speakers. This is repeated twice.

(The second round is given sound effects.)

Adjusts the background music volume level from 0 (mute) to 30 (maximum).

•To raise the sound level, hold press the start button and move up side the shift lever.

•To lower the sound level, hold press the start button and move up side the shift lever.

button and move down side the shift lever.

Adjusts the sound volume level from

0 (mute) to 30 (maximum).

\*To raise the sound level, hold press the start

button and move up side the shift lever.
•To lower the sound level, hold press the start

button and move down side the shift lever.

Sets whether shouting is on or off during the attract mode.

ON ..... Shouting is heard. ·OFF ...... No shouting is heard.

Sets whether the siren is on or off during the game. •ON ..... Siren is heard.

•OFF ..... No siren is heard.

Press the start button to clear all the settings in this mode back to the factory settings.

### **GAME OPTIONS**

Setting various game options

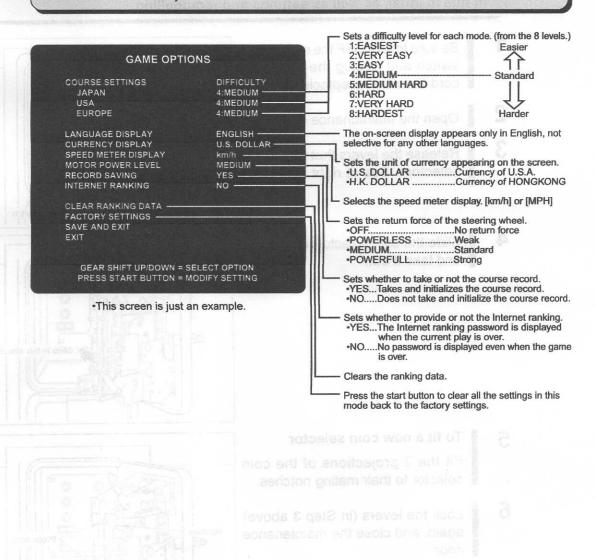
Mode for setting and checking the game options.

Move the shift lever up side or down side to select an item, and press the start button to enter it.

To return to the main menu screen, select "SAVE AND EXIT" or "EXIT" and press the start button.



•When networking the machines, be sure to set all the machines to the same settings. (except for the "NETWORK ID" settings in the "NETWORK OPTIONS" screen)



### **COIN OPTIONS**

Setting various coin options

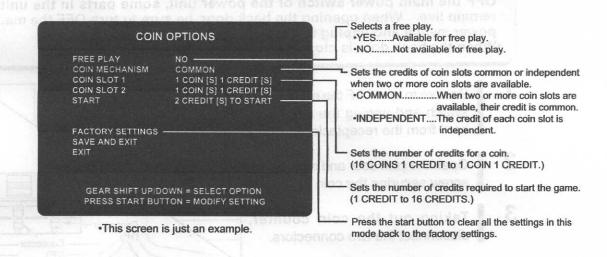
■ Mode for setting and checking the coin options.

Move the shift lever up side or down side to select an item, and press the start button to enter it.

To return to the main menu screen, select "SAVE AND EXIT" or "EXIT" and press the start button.



•The coin setting options are not displayed when "FREE PLAY" is set to "YES". In such case, remember the game will be free.



(removed in Step 4 above) in the

### **NETWORK OPTIONS**

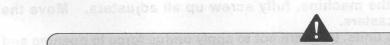
Setting various network options

■This mode is used to set the network ID and to check the networking condition of each networked machine.

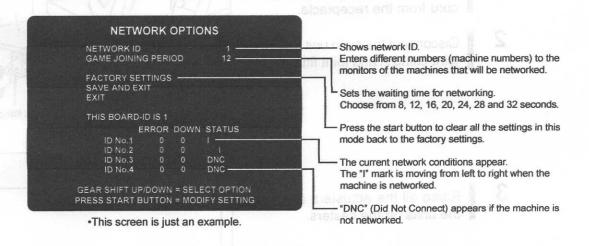
When the machines have been networked, be sure to check the networking condition on this screen.

Move the shift lever up side or down side to select an item, and press the start button to enter it.

To return to the main menu screen, select "SAVE AND EXIT" or "EXIT" and press the start button.



- •When networking the machines, be sure to set all the machines to the same settings. (except for the "NETWORK ID" settings in the "NETWORK OPTIONS" screen)
- •If any of the three items responds incorrectly, it indicates possible communication malfunction.
- •If the machine still shows the same trouble or any troubles that are not discussed in this manual, immediately turn OFF the main power switch, unplug the power cord and contact your nearest dealer.



-Check items (Watch the screen for longer than 1 minute and make sure the following 3 conditions are met.) — Check that the "I" mark in the STATUS column is moving from the left to the right at a fixed speed.

Check that the value in the ERROR column is below "10" after one minute.

·Check that the value in the DOWN column does not change from "0".

#### Screen display when game machines are networked

•Two machines are networked. (2-P PLAY)

#### Screen for player 1

### NETWORK OPTIONS NETWORK ID GAME JOINING PERIOD FACTORY SETTINGS SAVE AND EXIT EXIT THIS BOARD-ID IS 1 ERROR DOWN STATUS ID No.1 ID No.2 ID No.3 ID No.4 DNC GEAR SHIFT UP/DOWN = SELECT OPTION PRESS START BUTTON = MODIFY SETTING

### Screen for player 2

NET	WORK OPTIONS
NETWORK I GAME JOIN	ID 2 ING PERIOD 12
FACTORY S SAVE AND E EXIT	
THIS BOAR	D-ID IS 2
	ERROR DOWN STATUS
ID No.1	0 0 1
ID No.2	0 0 1
ID No.3	0 0 DNC
ID No.4	0 0 DNC
	JP/DOWN = SELECT OPTION BUTTON = MODIFY SETTING

#### •Four machines are networked. (4-P PLAY)

#### Screen for player 1

		-	-	-		-
	NETWO	RK	PTIC	ONS		
	NETWORK ID GAME JOINING	PERIO	OD O		1	
	FACTORY SET SAVE AND EXI EXIT					
	THIS BOARD-ID	151				
	EF	ROR	DOWN	STA	rus	
	ID No.1					
DELITA PICK	ID No.2		0	1		
The Residence	ID No.3		0			
	ID No.4					
G	EAR SHIFT UP/D	NWO	= SEL	ECT O	PTION	
PF	RESS START BU	TTON	= MOE	DIFY S	ETTING	

#### Screen for player 2

NETWO	RK C	PTIC	ONS		
NETWORK ID GAME JOINING	PERIO	סכ		2 12	
FACTORY SET SAVE AND EXI EXIT					
THIS BOARD-ID	) IS 2				
ER	ROR	DOWN	STA	TUS	
ID No.1					
ID No.2					W. T. S.
ID No.3		0			
ID No.4					
EAR SHIFT UP/C RESS START BU					

#### Screen for player 3

## NETWORK OPTIONS NETWORK ID GAME JOINING PERIOD FACTORY SETTINGS SAVE AND EXIT EXIT THIS BOARD-ID IS 3 ERROR DOWN STATUS ID No.2 ID No.3 ID No.4 GEAR SHIFT UP/DOWN = SELECT OPTION PRESS START BUTTON = MODIFY SETTING

Scree	en for pla	yer 4	90	ivi	8e	8-8
	NETV	VORK	OPTI	ONS		
	NETWORK I GAME JOINI		IOD		4 12	
	FACTORY S SAVE AND E EXIT		;			
	THIS BOARD	0-ID IS 4				
		ERROR	DOW	N STA	TUS	
	ID No.1 ID No.2 ID No.3 ID No.4		0 0 0 0			
	GEAR SHIFT U PRESS START					

·This screen is just an example.

### **CALIBRATION**

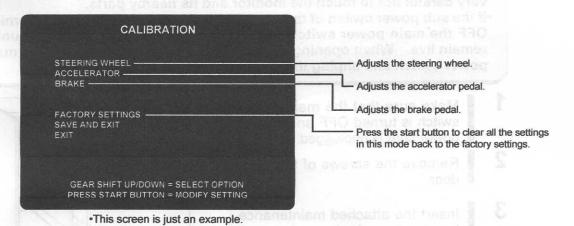
Calibrating the steering wheel, etc.

■ Mode for calibrating the steering wheel, accelerator pedal and brake pedal.

When "DEVICE ERROR (\*\*\*\*)" appears in the self-test during system start-up, make the calibrations in this mode.

Move the shift lever up side or down side to select an item, and press the start button to enter it.

To return to the main menu screen, select "EXIT" and press the start button.



- •For the details of calibration of each device, see next page.
- •When the calibration is performed and "ERROR" appears, follow the "7-4 Replacing and adjusting the potentiometer" on page 48 to 52.
- •Press and hold the test button and turn ON the power switch, the current correction value is also cleared.

**MEMO** 

#### •To calibrate the steering wheel

Adjust the potentiometer so that the input value is not off-scale on the "I/O CHECK" screen when fully steering to the right and left. The input value, ranging from 0 to 65535, becomes 0 or 65535 when off-scale.

Choose "STEERING WHEEL" and press the start button so that the screen shown below appears.

Follow the instructions on the screen to make the steering wheel calibration.

At first, the following message appears. Set the steering wheel to center (straight run) and press the start button.

POSITION THE STEERING WHEEL IN THE CENTRE.

Then, the following message appears. Turn the steering wheel fully counterclockwise and press the start button.

TURN THE STEERING TO LEFT FULLY PRESS START BUTTON = CONTINUE

Next, the following message appears. Turn the steering wheel fully clockwise and press the start button.

TURN THE STEERING TO RIGHT FULLY PRESS START BUTTON = CONTINUE

When the following message appears, release your hands from the steering wheel.

DO NOT TOUCH THE STEERING WHEEL UNTIL THE MACHINE IS BEING INITIALIZED.

45 -

The time to finish calibration is displayed here.

When the calibration is finished correctly, "OK" appears.

STEERING WHEEL: OK

In the event of a calibration error, "ERROR" appears. If "ERROR" is still displayed, contact your nearest dealer.

STEERING WHEEL: ERROR

### •To calibrate the accelerator pedal and brake pedal

For the accelerator pedal and brake pedal, adjust the potentiometer so that the input value is not off-scale on the "I/O CHECK" screen when stepping all the way on the pedal or releasing it.

The input value, ranging from 0 to 65535, becomes 0 or 65535 when it comes to the limit.

Choose "ACCELERATOR" or "BRAKE" and press the start button. The messages shown below appear. Follow the instructions on the screen to make the calibration. (The figures below are for "ACCELERATOR" selected.)

At first, the following message appears. Never touch the accelerator pedal.

DO NOT TOUCH THE ACCELERATOR

Then, the following message appears. Step fully on the accelerator pedal and press the start button.

STEP ON THE ACCELERATOR FULLY PRESS START BUTTON = CONTINUE

Next, the following message appears. Release your foot from the accelerator pedal.

RELEASE THE ACCELERATOR.

When the calibration is finished correctly, "OK" appears.

ACCELERATOR : OK

In the event of a calibration error, "ERROR" appears. If "ERROR" is still displayed, contact your nearest dealer.

ACCELERATOR : ERROR

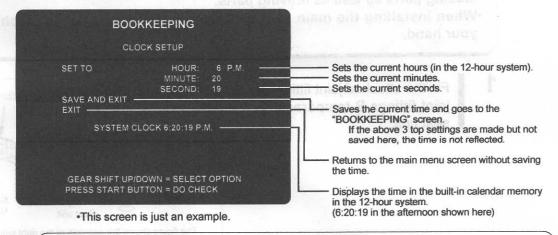
### **BOOKKEEPING**

Displaying the bookkeeping information of coins

■ Mode for displaying the total data on the number of coins put in the machine.

If the time is preset on the "CLOCK SETUP" screen, the total data on the number of coins put into the machine can be checked.

To return to the main menu screen, select "SAVE AND EXIT" or "EXIT" and press the start button.



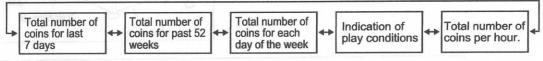
•Just when the machine has been set up or initialized, set the time in this screen.

•When the time setting has been modified, the bookkeeping information is automatically cleared. With the current time not set, the total of received coins and other bookkeeping data are not displayed. (The data once erased can not be resumed.)

MEMO

■ When the time has been preset on the "CLOCK SETUP" screen, as shown on the preceding page, the following each "BOOKKEEPING" is displayed on the screen. Each time the shift lever up and down, the screen changes as follows.

To return to the main menu screen, press the start button on each screen.



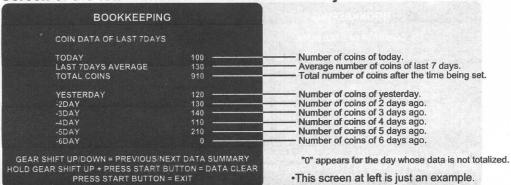
With the current time already set, the current time and the total coin data can be cleared by moving up the shift lever and pressing the start button on each screen. In such case, "DO YOU WANT TO CLEAR ALL BOOKKEEPING DATA? YES/NO" appears. Moving the shift lever up or down, select "YES or "NO" and press the start button.

If "YES" is selected, the question for re-confirmation appears on the screen.

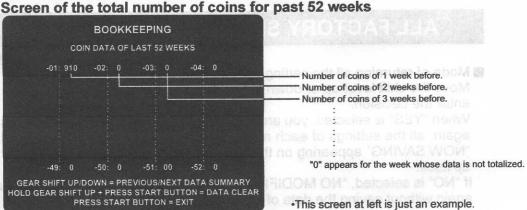
If "YES" is selected again, all the bookkeeping data are deleted and "CLEAR COMPLETED" appears on the screen, the data is saved as was set at the time of shipment and the main menu appears again automatically.

If "NO" is selected, "NO MODIFICATION" is indicated and the main menu appears again without deletion of the data.

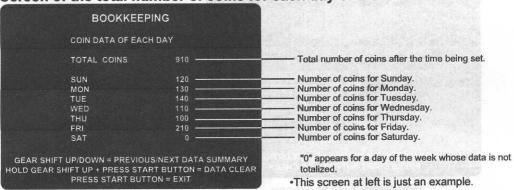
#### Screen of the total number of coins for last 7 days



This screen at left is just an example.

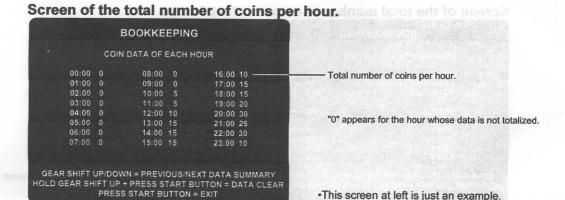


#### Screen of the total number of coins for each day of the week



findication of play conditi

BOOKKEEPI	NG	SOUND OPTIONS
PLAY DATA SUM	WARY	GAME OPTIONS
TOTAL PLAY TIME	10H 2M 0S	Total play time since the setting of time.
AVERAGE PLAY TIME LONGEST PLAY TIME SHORTEST PLAY TIME	3M 0S	Average play time. Longest play time. Shortest play time.
COIN SLOT 1 COUNT COIN SLOT 2 COUNT	5	Total count for coin slot 1. Total count for coin slot 2.
TOTAL PLAY COUNT SOLO PLAY COUNT	5 <del></del>	Total number of coins since the setting of time Total number of coins for solo play.
GEAR SHIFT UP/DOWN = PREVIOUS		
PRESS START BUTT		<ul> <li>This screen at left is just an example.</li> </ul>



## **ALL FACTORY SETTINGS**

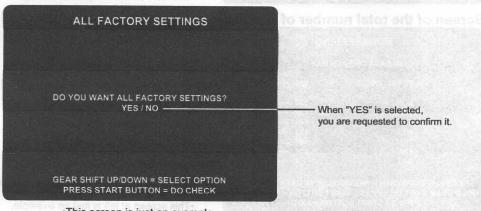
Returning all the settings to factory ones

This screen at left is just an example.

Mode of returning all the settings of each mode to their factory settings. Move the shift lever up or down to select "YES" or "NO". Press the start button to enter the decision.

When "YES" is selected, you are requested to confirm it. When "YES" is selected again, all the settings of each mode will be returned to their factory settings with "NOW SAVING" appearing on the screen. The main menu screen will then show up itself.

If "NO" is selected, "NO MODIFICATION" is indicated and the main menu appears again without saving the data of changed settings.



·This screen is just an example.

### Mode for returning to the factory settings -SOUND OPTIONS **GAME OPTIONS COIN OPTIONS NETWORK OPTIONS CALIBRATION BOOKKEEPING**

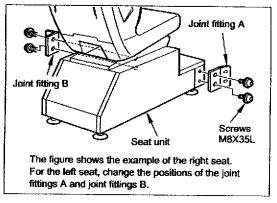
## 6 Installation and assembling

## 6-1 Mounting the seat unit

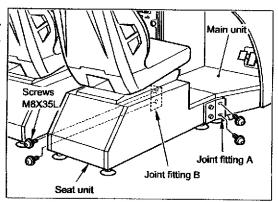
How to mount the seat unit ----



- •When moving the units, use care not to apply undue force to opening and closing parts as well as moving parts.
- •When installing the main unit and seat unit take care not to catch the your hand.
- Fix the attached joint fittings A and joint fittings B temporarily to the seat unit.



2 Fit the main unit and the seat units and temporarily fix the joint of the main unit.



- •After finishing the "6-2 Fastening the adjusters" on page 40, tighten the joint securely.
- •The connectors existing between the main unit and the seat unit will not be used here. Push them into the main unit.

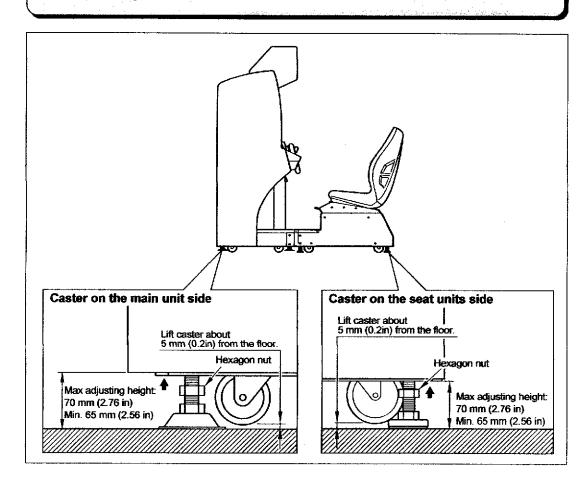
MEMO

## 6-2 Fastening the adjusters

How to fasten the adjusters =



- •Adjust the adjusters so that the casters do not touch the floor. Take care not to exceed the maximum adjusting height of the adjuster.
- •Make all the unit 12 adjusters come in contact with the floor, tighten them with hexagon nuts after making sure that all the units are placed stably in a horizontal position.



## 6-3 Setting the memory card

How to set up the memory card

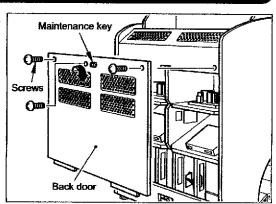


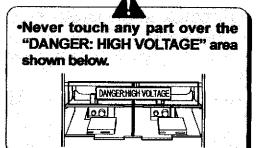
•Before setting the memory card, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

•There is high voltage inside the machine. Only the qualified industry specialist is allowed to open the back door. With the back door open, be very careful not to touch the monitor and its nearby parts.

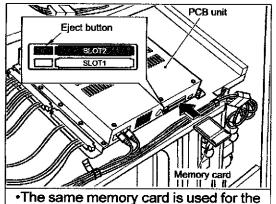
•If the sub power switch of the service panel is turned OFF without turning OFF the main power switch of the power unit, some parts in the units remain live. When opening the back door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

- Make sure that the main power switch is turned OFF and the AC power cord is unplugged.
- Remove the screws of the back
- Insert the attached maintenance key, turn it clock wise and remove the back door.





Insert the memory card of this kit in the upper slot (SLOT2) of the PCB unit on both the 1P and 2P sides. Be careful not to turn the card upside down.



•There are two memory card slots in the PCB unit. Be sure to insert the memory card, with the printed side up, deep into the upper slot (SLOT2). With the card in, make sure the eject button beside the slot is out.

1P and 2P sides.

For both the 1P and 2P sides, be sure to insert the memory card of this kit in the slot.

**MEMO** 

- 5 Fit the back door back in position. Lock the door with the maintenance key.
- Fix the back door tightly with the three screws.

  (Loose screws may activate the door switch, which keeps off the power.)

### 6-4 Power unit

The power unit is located on the back of main unit.



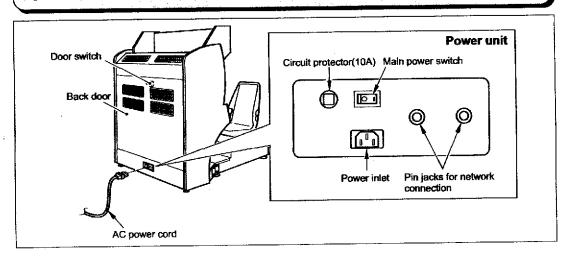
·Be sure to use the attached AC power cord.

·Be sure to ground to the machine. Never connect the grounding wire to

gas pipe, water pipe or telephone ground terminal.

There is high voltage inside the machine. Only the qualified industry specialist is allowed to open the back door. With the back door open, be very careful not to touch the monitor and its nearby parts.

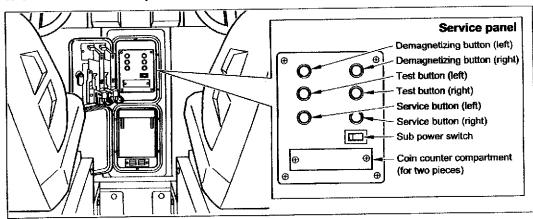
If the sub power switch of the service panel is turned OFF without turning OFF the main power switch of the power unit, some parts in the units remain live. When opening the back door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.



## 6-5 Service panel

#### Service panel ==

Using the accompaying maintenance key, open and detach the maintenance door to access the service panel inside.



## 6-6 Splitting into and moving of units

How to separate the units ---

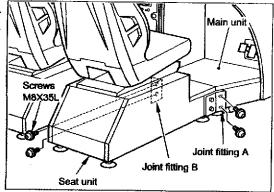
The machine can be divided into the units.



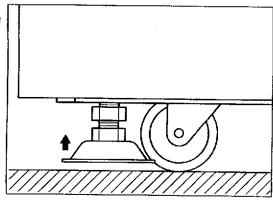
- Before separating the units from the machine, be sure to turn OFF the main power switch and remove the power cord plug from the receptacle.
- Before moving the machine, be sure to turn OFF the main power switch, unplug the power cord, from the receptacle and remove the power cord and networking cable from the machine.
- •Before moving the machine, fully screw up all adjusters. Move the machine on the casters.
- When moving the units, use care not to apply undue force to opening and closing parts as well as moving parts.
- When connecting the separated units, take care not to catch the your hand between the units.

### Separating the cockpit unit and the screen unit = =

- Be sure to turn OFF the main power switch and unplug the AC power cord from the receptacle.
- Disconnect the main unit side of the joint fitting A and joint fitting B.



Raise all the adjusters and move the units on the casters.



## 6-7 Moving the coin counter

The coin counter was installed in the coin box when the machine left the factory, but it can be moved onto the service panel.

How to move the coin counter =



 Before moving the coin counter, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

 There is high voltage inside the machine. Only the qualified industry specialist is allowed to open the back door. With the back door open, be very careful not to touch the monitor and its nearby parts.

•If the sub power switch of the service panel is turned OFF without turning OFF the main power switch of the power unit, some parts in the units remain live. When opening the back door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

•When the back door is closed, be sure to fix it with the 3 screws.

Be sure to turn OFF the main power switch and unplug the AC power cord from the receptacle.

Open the coin door and remove the screw securing the coin counter.

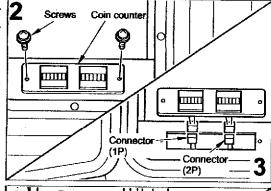
Taking out the coin counter, disconnect the two connectors.

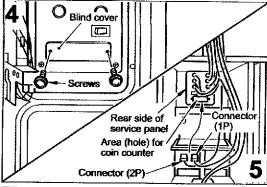
Open the maintenance door and unscrew the blind cover to remove it from the service panel.

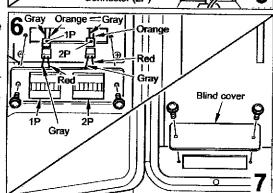
Remove the back door off the main unit (see Steps 2 and 3 on page 48). Move the two connectors to the service panel.

6 Connect the connector and secure the coin counter with the screw.

7 Screw down the blind cover (removed in Step 4 above) in the position where there was the coin counter behind the coin door





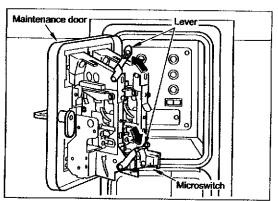


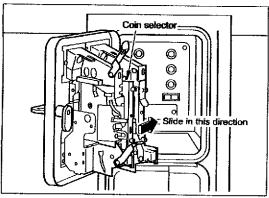
## 7-1 Replacing the coin selector

How to replace the coin selector



- Before replacing the coin selector, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- •Take care not to apply any load or impact to the maintenance door when it is open.
- After closing the maintenance door, be sure to check that the door is locked securely.
  When replacing parts, be sure to use parts of the correct specifications.
- Never use parts other than the specified ones.
- Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.
- Be sure to turn OFF the main power switch and unplug the AC power cord from the receptacle.
- 2 Open the maintenance door.
- Release the levers that fix the coin selector. See at right.
- 4 Slide the coin selector to the right, and take it out.

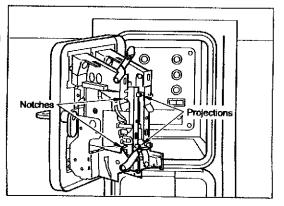




5 To fit a new coin selector

Fit the 2 projections of the coin selector to their mating notches.

6 Lock the levers (in Step 3 above) again, and close the maintenance door.

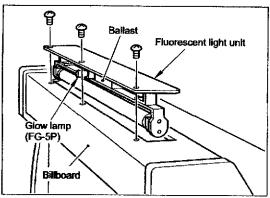


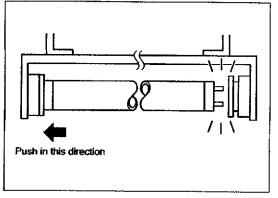
## 7-2 Replacing the fluorescent light

How to replace the fluorescent light



- Before replacing the fluorescent light, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- •The fluorescent light is hot just after the power switch is turned off.
  Wait until it cools down and then replace it with a new one of the same type (straight tube 32W/100V white).
- When detaching and reattaching the fluorescent light unit, be careful not to damage the wires between this unit and the main unit.
- •When replacing the fluorescent light, use a stepladder for safety sake.
- •When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.
- Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.
- Be sure to turn OFF the main power switch and unplug the AC power cord from the receptacle.
- Remove the fluorescent light unit lock screws off the top of the billboard.
- 3 Lift the fluorescent light unit off position. Be careful not to hit against the ballast.
- 4 Push one end of the fluorescent light in the direction of the socket. The other end of the fluorescent light will be datached from the opposite socket.
- Install a new fluorescent light in the reverse order.





•It is recommended that the glow lamp should be also replaced.

MEMO

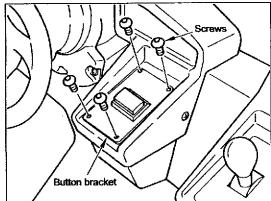
## 7-3 Replacing the start button

How to replace the start button

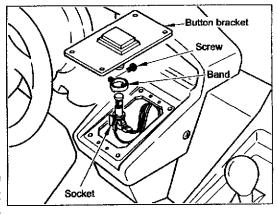


- Before replacing the button, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- •When replacing parts, be sure to use parts of the correct specifications.

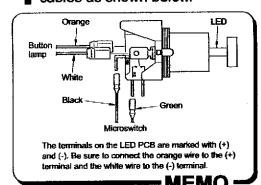
  Never use parts other than the specified ones.
- Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.
- Be sure to turn OFF the main power switch and unplug the AC power cord from the receptacle.
- Remove the screws and detach the button bracket.

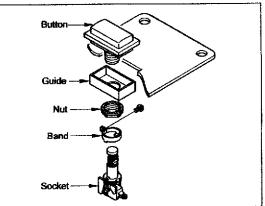


- Remove the screw and detach the band from the button socket.
- 4 Draw the socket out of the button.



Take the reverse steps to install the button into position. If the socket has been replaced, reconnect the cables as shown below.





## 7-4 Replacing and adjusting the potentiometer

How to replace the steering wheel unit potentiometer = = =



•Before replacing the steering wheel unit potentiometer, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

·Since the steering wheel unit is heavy, remove it with care.

 There is high voltage inside the machine. Only the qualified industry specialist is allowed to open the back door. With the back door open, be very careful not to touch the monitor and its nearby parts.

If the sub power switch of the service panel is turned OFF without turning OFF the main power switch of the power unit, some parts in the units remain live. When opening the back door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

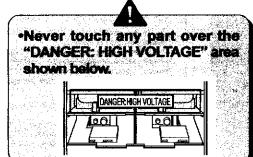
 When mounting/dismounting the control panel, take care not to damage the wires connecting the steering wheel unit and the main unit.

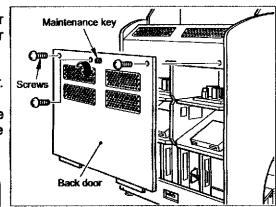
•When replacing parts, be sure to use parts of the correct specifications.

Never use parts other than the specified ones.

 Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.

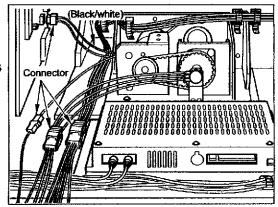
- Be sure to turn OFF the main power switch and unplug the AC power cord from the receptacle.
- 2 Remove the screws of the back door.
- Insert the attached maintenance key, turn it clockwise and remove the back door.



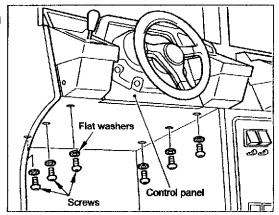


- Disconnect the four connectors shown at right.
  - Disconnect the following connectors.
    - SHIFT
    - •HANDLE
    - •E-HL (HR)
    - Connector of the wires (black/white) without mark

MEMO

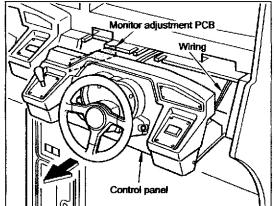


Remove the screws off the control panel.



6 Pull out the control panel towards you.

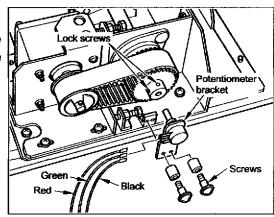
Take due xare not to drop the control panel. And take care that the control panel does not damage the monitor adjustment PCB.



Loosen the two fixing screws, remove the screws off the potentiometer breket, and remove the whole bracket.

•If the lock screws are inaccessible, turn the steering wheel to make them accessible and easy to loosen.

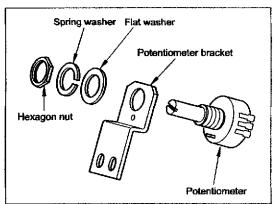




Remove the hexagon nut and separate the potentiometer.

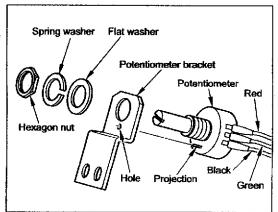
•When replacing the potentiometer with new one, be sure to first make the adjustment on the next page.

MEMO

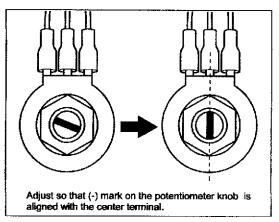


#### How to adjust the steering wheel unit potentiometer = = =

- 1 Fit the potentiometer projection to the smallest hole of the potentiometer bracket. Tighten up the hexagon nut.
- 2 Connect the wiring poperly.



- Grasp the potentiometer tip with your fingers and adjust it as shown in the figure.
- Turn the steering wheel to the original position, install the potentiometer bracket as it was and tighten the bracket with the two fixing screws securely.



•Even when the potentiometer bracket screw and the lock screws are tight enough, the potentiometer bracket is same what loose. Keep in mind that the bracket is not tightly locked.

- MEMO
- 5 Assemble the steering wheel unit to the main unit in the reverse order.
- 6 Attach the back door in position, and turn the maintenance key counterclockwise.
- Fix the back door tightly with the screws.

  (Loose screws may activate the door switch, whitch keeps of the power.)
- Plug the power cord in the receptacle and turn ON the main power switch. Carry out "5-2 Checking the game performance" on page 24.
- 9 Call up the "I/O CHECK" screen, show on page 27. Move the steering wheel and make sure the "I" make comes to the LEFT and RIGHT positions.

#### How to replace the pedal unit potentiometers --



 Before replacing the acceleration and brake pedal unit potentiometers, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

•There is high voltage inside the machine. Only the qualified industry specialist is allowed to open the back door. With the back door open, be

very careful not to touch the monitor and its nearby parts.

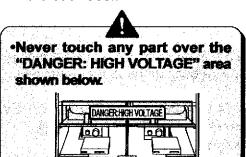
•If the sub power switch of the service panel is turned OFF without turning OFF the main power switch of the power unit, some parts in the units remain live. When opening the back door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

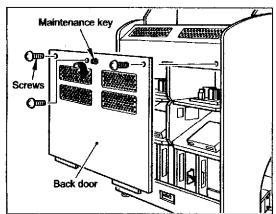
·When replacing parts, be sure to use parts of the correct specifications.

Never use parts other than the specified ones.

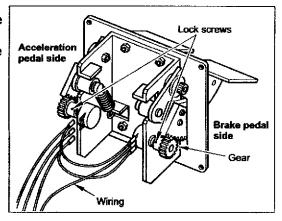
 Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.

- Be sure to turn OFF the main power switch and unplug the AC power cord from the receptacle.
- Remove the screws of the back door.
- Insert the attached maintenance key, turn it clockwise and remove the back door.





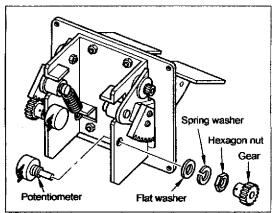
- Disconnect the wiring from the pedal unit potentiometer.
  Loosen the lock screws and take out the gears.
  - •If the lock screws are in a position where it is difficult to loosen them, press the pedal so that they are positioned favorably for looseing.



MEMO

- Remove the hexagon nut and separate the potentiometer.
- Fit new potentiometer first and then the gears.
  - •Be sure to make the adjustment on the next page before tightening up the gears' lock screws.
  - When replacing the potentiometer with new one, be sure to first make the adjustment on the next page.

·MEMO ·

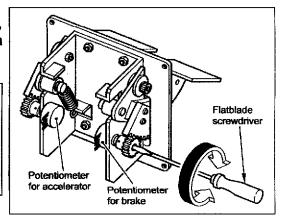


#### How to adjust the pedal unit (acceleration and brake) potentiometers - - -

Without touching the pedal, adjust the potentiometer with a flatblade screwdriver.

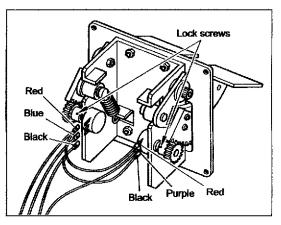
#### [Adjusting method]

- Potentiometer for accelerator
   Fully turn the potentiometer counterclockwise
   and then turn it back by about 10°.
- Potentiometer for brake
   Fully turn the potentiometer clockwise and the turn it back by about 10°.



- Tighten up the gears' lock screws.

  Be careful not to confuse the wiring.
- Attach the back door in position, and turn the maintenance key counterclockwise.
- Fix the back door thitly with the screws. (Loose screws may activate the door switch, whitch keep of the power.)



- Plug the power cord in the receptacle and turn ON the main power switch. Carry out "5-2 Checking the game performance" on page 24.
- 6 Call up the "I/O CHECK" screen, show on page 27. Step on the acceleration pedal and brake pedal and make sure the "I" make comes to the MIN and MAX positions.

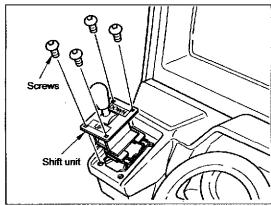
## 7-5 Replacing the shift unit microswitch

How to replace the shift unit microswitch

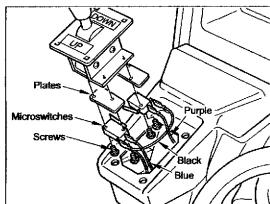


- Before replacing the shift unit microswitch, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- •When replacing parts, be sure to use parts of the correct specifications.

  Never use parts other than the specified ones.
- •Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.
- Be sure to turn OFF the main power switch and unplug the AC power cord from the receptacle.
- Remove the screws and take out the shift unit.

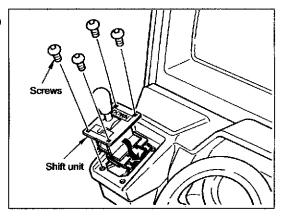


- Remove the screws and take out the microswitch and plate.
- When replacing the microswitch with new one, be careful to position the microswitch correctly. Do not confuse the wiring.



- Place the shift unit back into position.
  - Place the shift unit in the specified position. See the figure at right.
     "DOWN" to face the monitor
     "UP" to face the player

- MEMO -



#### 7-6 Inspecting and replacing the motor brushes

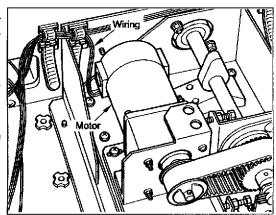
At the motor of the steering wheel unit are fitted two motor brushes. The motor brushes are worn every time when the machine is operated. It is therefore recommended to do periodical checking about every 2000 hours.

How to inspect and replace the motor brushes ---



- Before inspecting and replacing the motor brushes, be sure to turn OFF
   the main power switch and unplug the power cord from the receptacle.
- •When replacing parts, be sure to use parts of the correct specifications.

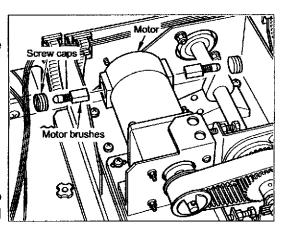
  Never use parts other than the specified ones.
- Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.
- Be sure to turn OFF the main power switch and unplug the AC power cord from the receptacle.
- Referring to page 48, separate the control panel from the main unit.
- 3 Disconnect the wiring from the motor.



- 4 Using a Flatblade screwdriver, remove the screw caps and take out the motor brushes.
  - •Check to see if the motor brush has worn out up to the marked line. If so, replace the motor brush with new one.



Install the motor brushes back into position. Attach the control panel in place.



## 7-7 Replacing the timing belt and adjusting its tension

How to replace the timing belt



 Before replacing the timing belt and adjusting its tension, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

When replacing parts, be sure to use parts of the correct specifications.

Never use parts other than the specified ones.

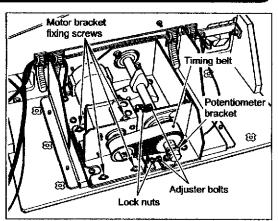
-Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.

Be sure to turn OFF the main power switch and unplug the AC power cord from the receptacle.

Referring to page 48, separate the control panel from the main unit.

3 Loosen the four motor bracket lock screws and the lock nuts first, and then the two adjuster bolts.

Referring to page 49, remove the potentiometer bracket first and then undo the timing belt.



#### How to adjust timing belt tension

Keeping loose the motor bracket fixing screws and the adjuster bolts, apply a new timing belt on the pulley.

Make sure the timing belt runs in mesh with the pulley.

Tighten the adjuster bolts to achieve the deflection specified in the figure.

Apply 2.8kg(6.2lb) load at the center Deflection to be less than 1.5mm (0.06in)

Pulley(at motor side) Pulley

Preferably use a tension gauge available on the market for easier adjustment. For frequency measurement, set to 305 Hz.

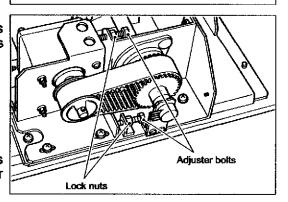
Appropriate timing belt sag

Make sure the deflection is as specified. Tighten up the lock nuts for the adjuster bolts.

 If the timing belt has a wrong deflection, it may break or wear out much earlier than expected.

#### MEMO -

Tighten the motor bracket lock screws evenly. Finally install the potentiorneter bracket back in position.



## 7-8 Resetting the circuit protector

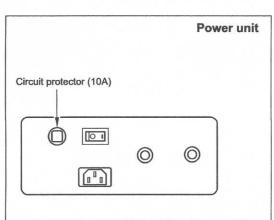
If an overcurrent or short circuit occurs, the circuit protector will be automatically actuated to protect the electric circuits of the game machine. When resetting the circuit protector, turn OFF the main power switch, unplug the power cord from the receptacle, eliminate the cause, and then press the button of the circuit protector.

#### How to reset the circuit protector ===



- •Before resetting the circuit protector, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- •If the circuit protector trips soon again, immediately turn OFF the main power switch, unplug the power cord, and contact your nearest dealer.
- •There is high voltage inside the machine. Only the qualified industry specialist is allowed to open the back door. With the back door open, be very careful not to touch the monitor and its nearby parts.
- •If the sub power switch of the service panel is turned OFF without turning OFF the main power switch of the power unit, some parts in the units remain live. When opening the back door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- •If the machine is in abnormal conditions and does not operate normally, immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.
- Be sure to turn OFF the main power switch and unplug the AC power cord from the receptacle.
- Remove the cause of the trouble.

  Press the button on the circuit protector of the power unit.



## 7-9 Adjusting the monitor

The monitor has already been adjusted at the time of shipment, but it may be readjusted as desired.

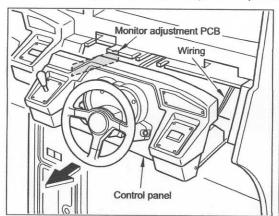
When adjusting the monitor, refer to "SCREEN CHECK" and "COLOR CHECK" on page 28.

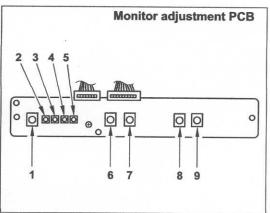


•There is high voltage inside the machine. Only the qualified industry specialist is allowed to open the back door. With the back door open, be very careful not to touch the monitor and its nearby parts.

#### Monitor adjustment PCB

The monitor adjustment PCB is located inside the game machine. When adjusting the monitor, pull the control panel. (See page 48 and 49)





1	CONTRAST	Contrast adjustment Used to changes the contrast.
2	R.GAIN	Red input gain adjustment Changes red brightness. Turning it clockwise will make the red deeper
3	G.GAIN	Green input gain adjustment Changes green brightness. Turning it clockwise will make the green deeper.
4	B.GAIN	Blue input gain adjustment Changes blue brightness. Turning it clockwise will make the blue deeper.
5	BRIGHT	Brightness adjustment Changes brightness. Turning it clockwise will make the image brighter
6	H.SIZE	Horizontal screen size adjustment Changes the width of the screen.
7	H.POSI	Horizontal image position adjustment Changes the image position in the horizontal direction.
8	V.SIZE	Vertical screen size adjustment Changes the height of the screen.
9	V.POSI	Vertical image position adjustment Changes the image position in the vertical direction.

## 7-10 Troubleshooting

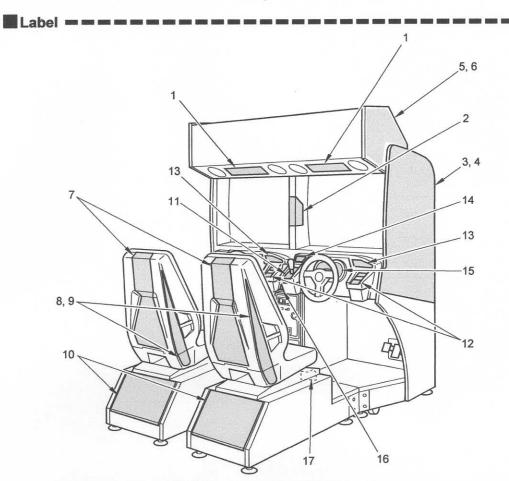
If the power switch is turned ON but the machine fails to start properly, take the following measures. If the machine still malfunctions or any other problem than described below occurs, immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.

Trouble	Possible causes and check points	Measures
No image on screen, title unit fluorescent light failure to light up.	•No power turned ON. (Main power switch, Sub-power switch.)	•Turn ON the power switch. Check also the shop's circuit breaker. (See page 42.)
	Power cord disconnected from the machine or wall outlet.	•Reconnect the power cord tightly. (See page 42.)
	Back door open or loosely closed.	•Screw down the back door tightly. (The door switch has been activated to cut off the power.) (See page 42.)
	Circuit protector activated.	•Take measures, referring back to page 56.
No image on screen : title unit fluorescent light on.	Memory card not inserted.	•Check the memory card for wrong position. (See page 41.)
	PCB unit defective.  Monitor defective.	<ul> <li>Immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.</li> </ul>
Title unit fluorescent lamp failure to light up.	•Fluorescent lamp or glow lamp broken.	•Replace the fluorescent lamp or glow lamp with new one of the same type. (See page 46.)
Screen too dark or too bright.	•Monitor maladjusted.	•Readjust the brightness on the monitor adjustment PCB. (See page 57.)
Start button malfunctioning.	Switch wires disconnected from start button.	•Reconnect the switch wires to the socket. (See page 47.)
	•Start button defective.	•Replace the start button with new one. (See page 47.)

Trouble	Possible causes and check points	Measures
Start button functioning, but failure to light up.	<ul> <li>Lamp wires disconnected from start button socket, or reversely connected.</li> </ul>	•Reconnect the switch wires to the socket. (See page 47.)
	Start button lamp (LED)     defective.	•Check the performance on the "I/O CHECK" screens. Replace the start button as required. (See page 27 and 47.)
Coin selector malfunctioning.	*Coin selector defective.	•Check the performance on the "I/O CHECK" screen. If malfunctioning, replace the coin selector or microswitch with new one. (See page 27 and 45.)
No sound or too loud (or too soft) sound.	•Sound level maladjusted.	•Make proper setting on the "SOUND OPTIONS" screen. (See page 29.)
Pedal unit malfunctioning.	•Wires disconnected from potentiometer.	•Reconnect the wires to the potentiometer. (See page 48.)
	Potentiometer maladjusted.	•Check the performance on the "I/O CHECK" screen and readjust the potentiometer. (See page 27 and 48.)
	•Potentiometer defective.	•Check the performance on the "I/O CHECK" screens. Replace the potentiometer as required. (See page 27 and 48.)
"BAD" displayed on the "DISK MEDIA CHECK" screen in test mode.	•Memory card defective.	•Immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.
"HARDWARE ERROR (***)" displayed on screen: game failure to start.	•Something wrong with the hardware.	•Write down the error code displayed. Immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.

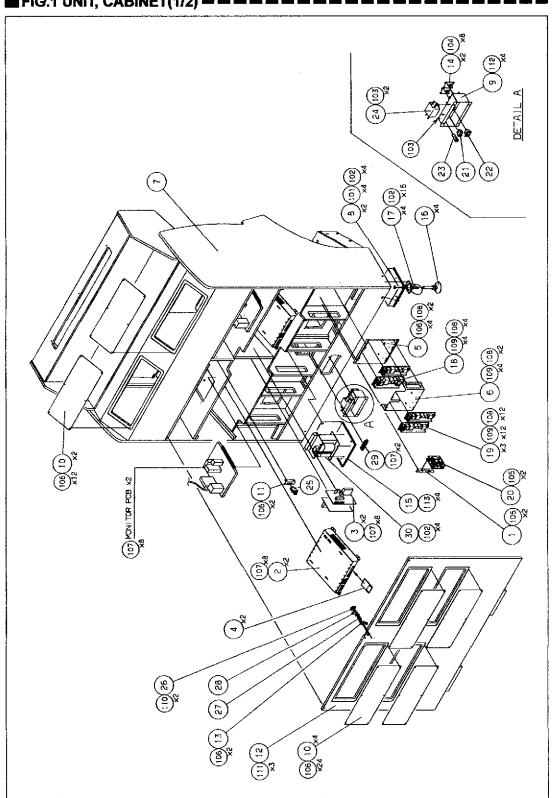
Trouble	Possible causes and check points	Measures
"OK" appears at the initial device check, but this check is repeated without going to the game mode.	•Some connectors disconnected or wires broken.	•Turn OFF the main power switch, unplug the power cord from the receptacle and check all the connectors for poor contact. If all the connectors are tightly connected but the same trouble occurs, contact your nearest dealer.
"NETWORK ERROR" displayed: failure to play networked.	•"NETWORK ID" wrongly set.	•Make correct network ID on the "NETWORK OPTIONS" screen in the test mode. (See page 32.)
	•Networking cable defective.	•Reconnect the networking cable between the machines (see page 23) or replace the networking cable.
	•One of the networking cable has been disconnected from during play.	1.Turn OFF the main power switch.     2.Connect the networking cable properly.     3.Turn ON the main power switch again.
	One of the networking cable has been internally broken or broken.	•Replace the networking cable with new one.  •You can also use commercially-sold video cable (75Ω3C-FV) having a lengh of 2m (78.74 in) or less.
"DNC" and "I" marks appearing alternately at STATUS on "NETWORK OPTIONS" screen, or "ERROR" happening more often.	*Supply voltage drop or unstable.	Connect the networked machine's power plug to the same wall outlet.

## 8-1 Label locations and exploded view



No.	CODE No.	NAME	QTY	NOTE
1	0000096944	LABEL, PLAYING A/HD	2	
2	0000096945	LABEL, PLAYING B/HD	1	
3	0000096518	LABEL, SIDE L	1	
4	0000096521	LABEL, SIDE R	1	
5	0000096530	LABEL, KONAMI L	1	
6	0000096531	LABEL, KONAMI R	1	
7	0000096532	LABEL, SEAT A	2	
8	0000096536	LABEL, SEAT B/L	2	
9	0000096537	LABEL, SEAT B/R	2	
10	0000096538	LABEL, SEAT C	2	
11	0000096522	LABEL, COMPANE A	2	
12	0000096523	LABEL, COMPANE B	2	
13	0000096528	LABEL, COMPANE C	2	
14	0000096529	LABEL, COMPANE D	2	
15	0000081263	LABEL, METER	2	
16	0000037716	LABEL, ENTRY	1	
17	0000037424	LABEL, SEAT	2	
18	0000096546	LABEL, ZEICHEN	1	Player's No. (1P to 4P)

## ■ FIG.1 UNIT, CABINET(1/2) --

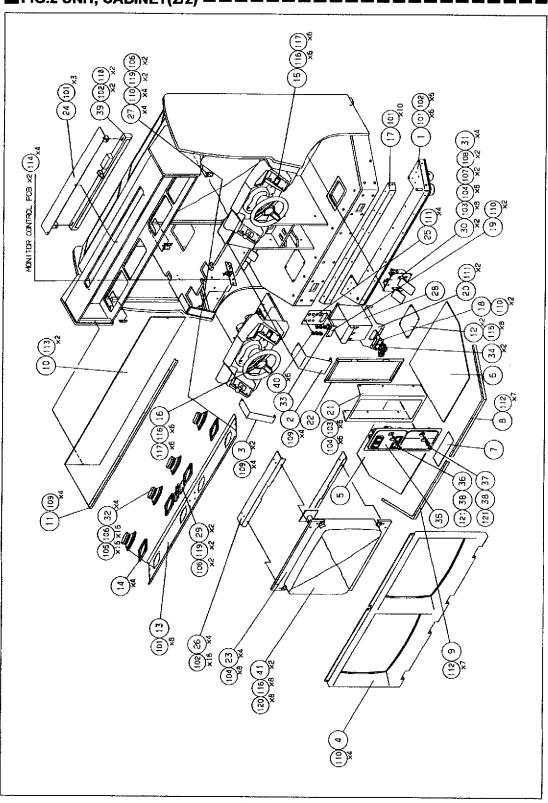


9	CODE NO.	NAME	- MATERIAL/SPEC.	) L	SOTE
-	0000013534	BKT, FAN	3.11.53	ı	
~	0000096448	UNIT, PCB BOX		2	
₩	0000056403	UNIT, PCB(K)		2	
4	0000096446	UNIT, CF-CARD		2	
2	0000037024	BRACKET, REGULATOR	SPCC 11.2	-	
9	0000043023	BRACKET, REGULATOR	SPCC T1.2	-	
r~	0000045953	CABINET	WOOD 115	-	
ဆ	2089000000	BKT., CASTER(D)	SPCC 13.2	2	
on.	0000041183	BRACKET, POWER	SPCC 71.2	-	
2	0000009465	BRACKET, AIR	PUNCH D3 PITCH4	9	
=	0000012230	BKT., SWITCH	SECC 11.6		
27	0000013264	COVER, CABINET	₩000 T15	-	
₩.	1625100000	BKT., SWITCH	SECC 12.3	-	
14	0000037320	ASS'Y, PCB	LANC CONNECTOR	~	
#£	0000043613	BASE, TRANSFORMER	SPCC T1.6	-	
16	5072000000	ADJUSTER	C-275-A-3	Þ	
17	1902000000	CASTER	K-420G-75-N	7	
18	6675000000	REG., SWITCHING	ZWS150PF-5/J	-	
19	9890200000	REG , SWITCHING	C/21-340018MZ	3	
20	0000003209	MOTOR, FAN	FBA09A12M	-	
21	0000039100	SWITCH, ROCKER	AJ8201BK	-	
22	9501200000	INLET, AC	M1816	-	
23	1269200000	PROTECTOR, CIRCUIT	NRF110-10A	_	
24	0000003180	FILTER, NOISE	MAS-1210-33		
25	0000004953	SWITCH, DOOR	AV1225	-	
56	0000005684	WASHER, LOCK	KSP-1		
27	1775000000	TOOK	NS-801-1 W/0	-	
28	0000004531	PLATE, LOCK	- NO. 1	-	
58	5269200000	BLOCK, TERMINAL	ML-6750F-187ABC-5P		
20	**********			L	

본 ON		Nd'MS		SW. PW	SW, PW				SN, PW				ΝS
OΤΥ	4	24	~	60	2	46	55	20	20	~	3	7	4
MATERIAL/SPEC.	M6×25	M6×20	<b>7</b> 4	M3×10	M4×30	d4×10	d3.1x13	BSB-308~6	M3×6	d3xB	M6x30	M4×30	M6x20
NAME	SCREV. CROSS TRUSS	SCREW, CROSS PAN SENS	NUT, FLANGE	SCREW, CROSS PAN SEMS	SCREW, CROSS PAN SEMS	SCHEY, CROSS TAPPING TRUSS	SCREW, WOOD CROSS ROUND	SPACER	SCREW, CROSS PAN SENS	SCREW, CROSS TAPPING PAN	SCREY, CROSS TRUSS	SCREV, CROSS TRUSS	SCREW, CROSS PAN SENS
CODE NO.													
NO.	101	102	103	104	501	901	201	801	109	011	111	112	113

## GMA41-TB

## FIG.2 UNIT, CABINET(2/2) ------

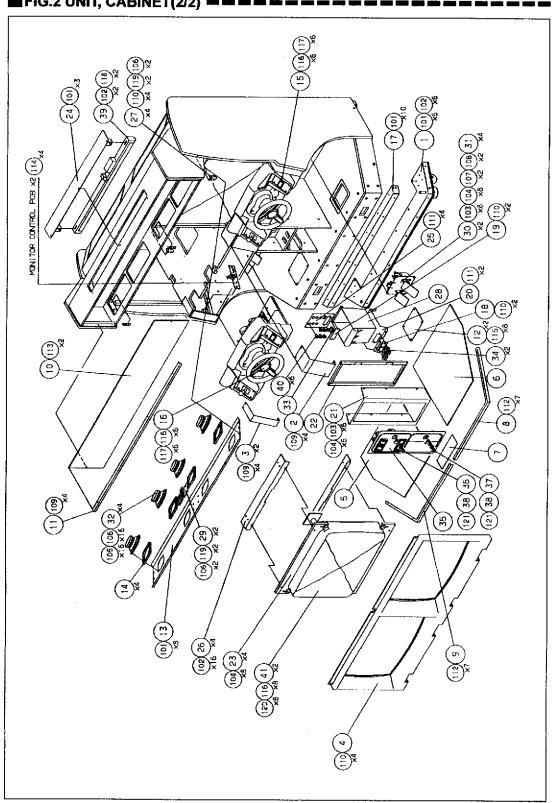


## GMA41-TB

₹	CODE NO.	NAME	MATERIAL/SPEC.	ΩŢ	NOTE	Ş	CODE NO.	NAME	╗	٨	2
31	0000001723	POTENTIOMETER	EWS-U0AS25E53	4		-	0000008799	BKT, CASTER(A)	SPCC T3.2	_	
22	0000002322	SPEAKER	PD10391A	þ		2	0000008803	COVER, CENTER	SUS 304 71	_	-
33	0000039100	SW1TCH, ROCKER	AJ8201BK	_		~	0000008804	COVER, SIDE	5US 304 T1	~	1
75	0000030431	COUNTER	GX-06P055	~		-	0000007625	ESCUSS 1 ON (A.)	PMMA/PVC T5	-	-
189	0000086349	DOOR, COIN	NAD-V2-KBTA	Ε		ഹ	0000012581	SHEET, FLOOR(L)	PVC	-	- 1
36	0000001676	TOCK	NS-801-1 14/2	-		9	0000012582	SHEET, FLOOR(R)	PVC	-	- [
E	00000005537	X07	NS-812 U/2	-		1	0000011689	SHEET, FLOOR(B)	PVC	-	J
88	0000004799	PLATE, LOCK	NO. 2	~	:	40	0000000808	COVER, EDGE (A)	SUS 304 T1	_	ı
85	0000002522	LAMP, F. WITH HOLDER	S-32V875MM	Ε		6	0000008809	COVER, EDGE (B)	SUS 304 T1	-	- 1
9	0000005098		DS-412-2P	9		0	0000096843	PANEL, TITLE	PIMMA TS	-	
-	0000081148		K29CC55	~		=	9088000000	COVER, TOP	SPCC T1.2	-	
9		SCREW, CROSS TRUSS	M6x25	2		~	0000013530	COVER, FOOT	SPCC T2.3	~	
102		SCREU, CROSS PAN SEMS	M6x20	24	a S	13	191780000	HOLDER, TITLE(A)	SPCC 71.6	_	
103			M6x25	=		14	0000013558	PLATE, SPEAKER HOLD	W000 T9	4	
ğ		NUT. FLANGE	歪	83		ਨ	5199600000	UNIT, CONTROL (R)		_	
105		BOLT, CAP SQUARE NECK	M4×25	9		=	909960000	UNIT, CONTROL (L)		-	
106		NUT FLANGE	×	ន		17	00000008800	BKT., SUPPORT	SPCC 13.2	_	
5		SCREW CROSS PAN SEMS	M3×10	~	3. P	<b>£</b>	0000012186	PLATE, COUNTER	SPCC T1.2	-	
ē			¥3	~		52	0000012255	PLATE, COVER	SPCC T1.2	-	
50		SCHEM, CROSS TAPPING TRUSS	d4×10	~		8	0000041198	BRACKET, COUNTER	SPCC T1.6	_	
9		SCREY, CROSS PAN SENS	M4x15	2:	SV, PV	≂	0000007411	BKT, COIN SELECTOR	SPCC T1.6	-	1
ĮΞ		SCREW, CRASS TIPPING THRESS	d4×10	ø		53	0000008402	BOARD, SELECTOR	V00D T15	-	
2		NATE	+18x16	Ξ		23	00000081190	BRACKET, MONITOR	SECC 12.3	4	
113		SCREY, CROSS TRUSS	M6x25	٦		24	0000008807	BKT, LAMP	SPCC 71.6	-	- 1
=		SCREY, VOOD CROSS ROUND	d3.1x13	7		25	0000013531	BKT., SERVICE	SPCC T1.2	-	
12		SCREU, WOOD CROSS FLAT	d3. 1x13	æ		56	00000008005	FRAME, MONITOR	SECC 72.3	-	
9		WASHER, PLAIN	98	20		27	0000013559	FIXTURE, CONNECT	SPCC T1.2	4	1
11		BOLT, BUTTON HEAD	M6x30	12		28	0000006850	BOX, COIN	ABS	-	-
2 €		WASHER, PLAIN	85	2		29	0000013536	FIXTURE SUPPORT	SPCC 72.3	~	
≘		SCREW, CROSS TRUSS	M4x30	4		30	0000002247	GAME PEDAL	2V. R. (AC/BR)	~	-
2		BOLT, HEX SOCKET CAP	M6x25	8	WA (SW)						
5		MA CO CONTRACT	2	6							

## GMA41-HD

## FIG.2 UNIT, CABINET(2/2)



## GMA41-HD

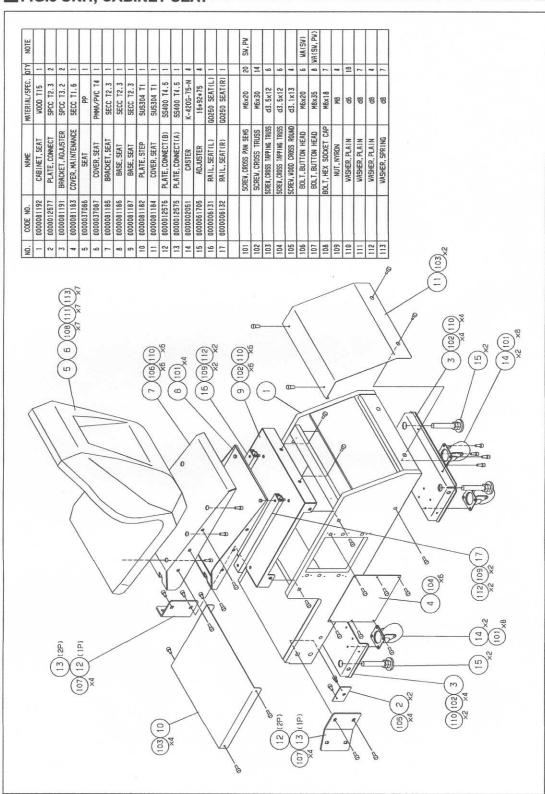
NOTE																																
OΤΥ	-	-	2	-	-	-	_	-	-	-	-	2	-	4	_	-	-	_	-	1	_	-	4	-	-	4	4	-	2	5		
MATERIAL/SPEC.	SPCC T3.2	SUS 304 T1	SUS 304 T1	PMMA/PVC T5	PVC	PVC	PVC	SUS 304 T1	SUS 304 T1	PMMA T5	SPCC T1.2	SPCC T2.3	SPCC T1.6	W00D T9			SPCC 13.2	SPCC T1.2	SPCC T1.2	SPCC 11.6	SPCC T1.6	W00D T15	SECC 12.3	SPCC T1.6	SPCC T1.2	SECC 12.3	SPCC T1.2	ABS	SPCC T2.3	2V. R. (AC/BR)		
NAME	BKT, CASTER(A)	COVER, CENTER	COVER, SIDE	ESCUSS I ON (A)	SHEET, FLOOR(L)	SHEET, FLOOR(R)	SHEET, FLOOR(B)	COVER, EDGE (A)	COVER, EDGE (B)	PANEL, TITLE	COVER, TOP	COVER, FOOT	HOLDER, TITLE(A)	PLATE, SPEAKER HOLD	UNIT, CONTROL (R)	UNIT, CONTROL (L)	BKT., SUPPORT	PLATE, COUNTER	PLATE, COVER	BRACKET, COUNTER	BKT, COIN SELECTOR	BOARD, SELECTOR	BRACKET, MONITOR	BKT, LAMP	BKT., SERVICE	FRAME, MONITOR	FIXTURE, CONNECT	BOX, COIN	FIXTURE, SUPPORT	GAME PEDAL		
CODE NO.	0000008799	0000008803	0000008804	0000007625	0000012581	0000012582	0000011689	0000000808	0000000800	0000096843	0000000806	0000013530	0000087161	0000013558	0000096613	0000000000	0000000800	0000012186	0000012255	0000041198	0000007411	0000008402	0000081190	0000008807	0000013531	0000008805	0000013559	0000006850	0000013536	0000002247		
9	-	2	3	4	2	9	7	8	6	10	=	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	59	30		
NOTE													SV, PV					SV, PV			SV, PV										WA (SV)	
OΤΥ	4	4	-	2	1	1	-	2	-	9	2	27	24	14	22	16	50	2	2	12	15	9	14	2	Þ	8	50	15	2	4	8	,
MATERIAL/SPEC.	EVS-U0AS25E53	PD10391A	AJ8201BK	GX-06PD55	NAD-W2-KBHA	NS-801-1 W/2	NS-812 W/2	NO.2	S-32W875MM	DS-412-2P	K29CC55	M6x25	M6x20	M6x25	M6	M4x25	M4	M3×10	M3	d4×10	M4×15	d4×10	♦18×16	M6x25	d3.1x13	d3.1x13	90	M6x30	d8	M4×30	M6x25	97
NAME	POTENT I OMETER	SPEAKER	SWITCH, ROCKER	COUNTER	DOOR, COIN	ГОСК	ГОСК	PLATE, LOCK	LAMP, F. WITH HOLDER	SWITCH, PUSH	MONITOR	SCREV, CROSS TRUSS	SCREV, CROSS PAN SENS	BOLT, CAP SOUARE NECK	NUT, FLANGE	BOLT, CAP SOUARE NECK	NUT, FLANGE	SCREV, CROSS PAN SEMS	NUT, FLANGE	SCREW, CROSS TAPPING TRUSS	SCREY, CROSS PAN SENS	SCREV, CROSS TAPPING TRUSS	NAIL	SCREV, CROSS TRUSS	SCREV, VOOD CROSS ROUND	SCREV, WOOD CROSS FLAT	WASHER, PLAIN	BOLT, BUTTON HEAD	WASHER, PLAIN	SCREW, CROSS TRUSS	BOLT, HEX SOCKET CAP	210 000000
CODE NO.	0000001723	0000002322	0000039100	0000030431	0000086347	0000001676	0000005537	0000004799	0000002522	0000002098	0000081148							an is								9						
9	31	32	33	34	35	36	37	38	39	40	41	101	102	103	104	105	106	107	108	109	110	=	112	113	114	115	116	117	118	119	120	

NOTE																				SW, PV						
TO.	-	-	=	-	-	-	Ξ	2	-	2	=	-	-	1 1	-	-	4	0 5	2 00	9	2	7	91	2	-	60
MATERIAL/SPEC. DTY	W00D T12	SPCC 13.2	SS400 Ø65	PMMA/PVC T5	SUS304 T1.5	PMMA/PVC T5	SPCC T1.6	SECC T1.6	SPCC 12.3	SPCC T1.6		50-8486-00	SLA-30N-KN151	DBSA-45UK-KN37	50-8487-116(BLAC	0BSA-BK	Broom	MELZO	M6×16		d4×10	M3×10	90	M6x15	M12x1.25	M5×16
NAME	BASE, HANDLE (A)	BRACKET, HANDLE	SPACER, HANDLE	COVER, CONTROL	PLATE, HANDLE	COVER, HANDLE	BRACKET, BUTTON	FIXTURE, PLATE	BRACKET, SHIFT	FIXTURE, JOINT (B)	ASS'Y, REACTION	WHEEL, STEERING	SHIFTER	BUTTON, PUSH	CAP, STEERING WHEEL S0-8487-116(BLACK)	CL IP, BOTTON	DOI T DITTON DEAD	BOLL, BUTTON HEAD	BOI T HEX SOCKET CAD	SCREW, CROSS PAN SENS	SCREW, CROSS TAPPING TRUSS	SCREW, CROSS FLAT	WASHER, PLAIN	SCREW, CROSS TRUSS	NUT, NYLON	BOLT, BUTTOM HEAD
CODE NO.	0000007622	0000043726	0000013066	0000041216	0000008396	7757000000	0000038349	0000041178	00000041180	0000012574	0000044812	9609000000	0000001139	0000038409	1609000000	0000002412										
NO.	-	~	2	4	2	9	7	80	6	2	=	12	13	14	15	16	3	5	103	104	105	106	107	108	109	011
		(1) (104)																		\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		(91)	110013		801)(4)	(30) (30) (30) (30) (30) (30) (30)

#### FIG.4 ASS'Y, REACTION =

NOTE				1	1	1	1	1								SW, PW														i	N. N.
PEC. DTY	1.5	1.2.1	-	1.2				0	50A	1 6-74	363 1	04 2	SE63 1	350 1		- 60	T	~ ~	П	4		1	T			2 0	T	=			
MATERIAL/SPEC. DTY	SPCC 13.2	SPCC T3.2	S45C	SPCC T3.2	SPCC T3.2	SPCC T2.3	55400	UK HS90	P40S5M0250A	CEEI M.C.A7.2	8RL-D65363	ASPFL204	EVS-U0AS25E53	B250S5M350	M8×15	M6x15	M6	M6x30	M5×14	M4×12	M4x6	M6x8	M5x30	920	6x6x28	4X4XIS	6v6v1d	die	d3.2×18	4×4×32	OIX
NAME	BASE, MOTOR	BKT, UNIT(B)	SHAFT	SUPPORT, PLATE(A)	BRACKET, MOTOR	BRACKET, P. METER	STOPPER, SHAFT	SIUPER	PULLEY	MOTOR DC	GEARHEAD	BEARING	POTENT JOMETER	BELT, TIMING	BOLT, CAP SOUARE NECK	SCREW, CROSS PAN SEMS	NUT. FLANGE	BOLT, HEX	SCREW, CROSS FLAT	SCREW, HEX SOCKET SET	SCREW, HEX SOCKET SET	SCREW, HEX SOCKET SET	SCREW, CROSS PAN	RING, RETAINING C SHAFT	KEY, PARALLEL	KEY, PARALLEL	VEY DADALLEL	WASHER, PLAIN	PIN, SPLIT	KEY, PARALLEL	SCREW, UNUSS PAN SERSI
CODE NO.	0000041191	0000009164			-	0000041196	0000012741	20044705	0000041239	0000041240	0000036919	0000001721	0000001723	0000041389	8	65			65	S	S	S		OK	Ī	1					<u></u>
NO. CC	1 000	2 000	3 000	-	+	+	+	+	6	-	+	13 000	14 000	15 000	101	103	104	105	107	108	109	0 :	=	112	13	9 1	2 4	117	118	119	150
										(118)		×	_		2 (103)(104	120		Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		1		\$ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7	(	\	<	/				

#### FIG.5 UNIT, CABINET SEAT -



#### FIG.6 UNIT, ATTACHMENT

BOOK, WANJER AL/SPEC, UN Y	- 14	<b>G</b> .	0	-	AI	Ι,	A		A	C	HIN	ΛEI	NI
1000001616 BOOK WANALATO 2 0000001616 KEY,LDCK 4 000001616 KEY,LDCK 4 000001616 WEY,LDCK 5 000001616 WEY,LDCK 6 000001616 WEY,LDCK 1 0000001616 WEY,LDCK 1 000001616 WEY,LDCK 1 000001616 WEY,LDCK 1 0000001616 WEY,LDCK 1 000001616 WEY,LDCK 1 000001616 WEY,LDCK 1 0000001616 WEY,LDCK 1 000001616 WEY,LDCK 1 000001616 WEY,LDCK 1 0000001616 WEY,LDCK 1 000001616 WEY,LDCK 1 000001616 WEY,LDCK 2 000001616 WEY,LDCK	NOIE					1(SW, PW)						P BLACK	
1000001616 BOOK WANGLIND  1000001616 BOOK WANGLIND  2 000001616 KEY,LDCK  4 0000016216 KEY,LDCK  5 0000016216 LARE, FARE  5 0000016216 BOOK WANGLIND  7 0000016216 BOOK WEY,LDCK  8 0000016216 BOOK WEY,LDCK  10 0000016216 BOOK WEY,LDCK  11 0000016216 BANGLI, SURICE, SURECTIB)  12 0000016216 BANGLI, SURICE, SURECTIB)  13 000001616 BANGLI, SURICE, SURECTIB)  14 000001616 BANGLI, SURICE, SURECTIB)  15 000001616 BANGLI, SURICE, SURECTIB)  16 000001616 BOOK WEY,LDCK  17 000001616 BOOK WEY,LDCK  18 000001616 BOOK WEY,LDCK  19 000001616 BOOK WEY,LDCK  10 000001616 BOOK WEY,LDCK  10 000001616 BOOK WEY,LDCK  10 000001616 BOOK WEY,LDCK  11 000001616 BOOK WEY,LDCK  12 000001616 BOOK WEY,LDCK  13 000001616 BOOK WEY,LDCK  14 000001616 BOOK WEY,LDCK  15 000001616 BOOK WEY,LDCK  16 000001616 BOOK WEY,LDCK  17 0000001616 BOOK WEY,LDCK  18 000001616 BOOK WEY,LDCK  19 000001616 BOOK WEY,LDCK  10 000001616	5	-	-		-	16 WA	2	2	2	-	- 0	Z - L	
1000001616 BOOK WANGLIND  1000001616 BOOK WANGLIND  2 000001616 KEY,LDCK  4 0000016216 KEY,LDCK  5 0000016216 LARE, FARE  5 0000016216 BOOK WANGLIND  7 0000016216 BOOK WEY,LDCK  8 0000016216 BOOK WEY,LDCK  10 0000016216 BOOK WEY,LDCK  11 0000016216 BANGLI, SURICE, SURECTIB)  12 0000016216 BANGLI, SURICE, SURECTIB)  13 000001616 BANGLI, SURICE, SURECTIB)  14 000001616 BANGLI, SURICE, SURECTIB)  15 000001616 BANGLI, SURICE, SURECTIB)  16 000001616 BOOK WEY,LDCK  17 000001616 BOOK WEY,LDCK  18 000001616 BOOK WEY,LDCK  19 000001616 BOOK WEY,LDCK  10 000001616 BOOK WEY,LDCK  10 000001616 BOOK WEY,LDCK  10 000001616 BOOK WEY,LDCK  11 000001616 BOOK WEY,LDCK  12 000001616 BOOK WEY,LDCK  13 000001616 BOOK WEY,LDCK  14 000001616 BOOK WEY,LDCK  15 000001616 BOOK WEY,LDCK  16 000001616 BOOK WEY,LDCK  17 0000001616 BOOK WEY,LDCK  18 000001616 BOOK WEY,LDCK  19 000001616 BOOK WEY,LDCK  10 000001616	TERIAL/SPEC.		NS-812-4/2	7/M-100-CA		M8×35					0x180 T0.0	0x300 T0.0	
10000006534	$\neg$	+	+	t	H	EAD	Q	(A)	(8)		= 20	52	
10000006534   10000006534   10000006534   10000006544   10000006544   10000006544   10000006544   10000006544   11000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   11000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   110000006544   1100000006544   110000006544   110000006544   1100000006544   1100000006544   110000006544   110000006544   110000006544   11000000654	NAME	BOOK, MANUAL/	KEY, LOCK	CARIF AC	CABLE, RF	BOLT, BUTTON H	UNIT, CF-CAR	PLATE, CONNECT	PLATE, CONNECT	LABEL, ZEICH	BAG	BAG	
	CUDE NO.	0000097046	00000005537	0000036692			00000096446	0000012575	0000012576	00000096546	000000000000000000000000000000000000000	0000004630	
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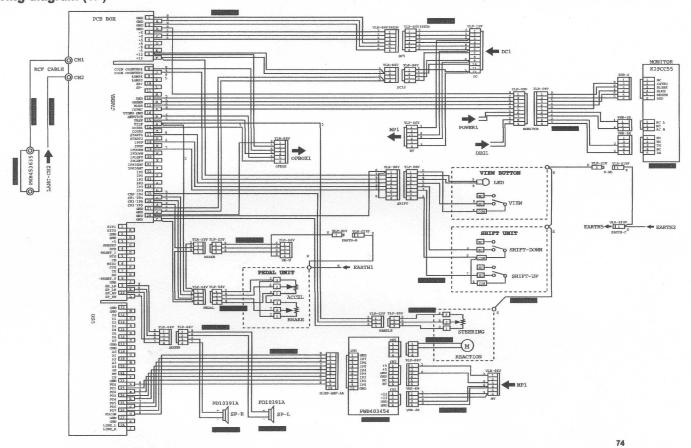
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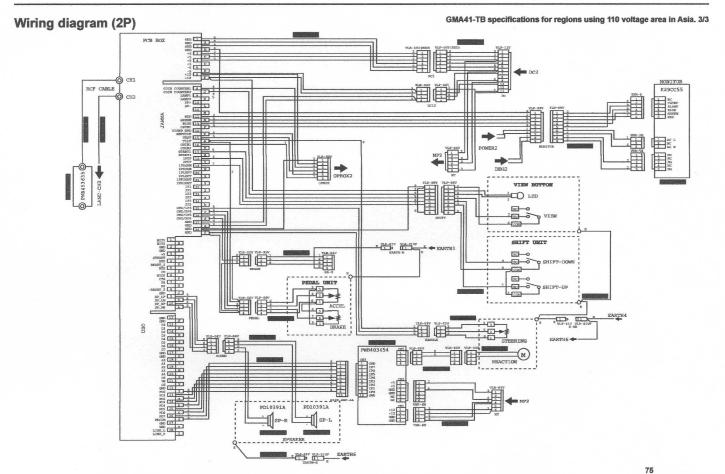
GMA41-TB specifications for regions using 110 voltage area in Asia. 1/3

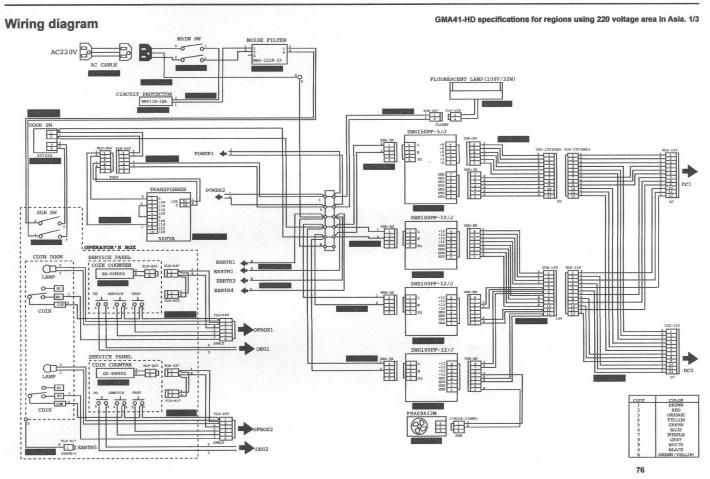
# 8-2 Wiring diagram AC110V SW 1 78A09A12M 179228-3 (A)

#### Wiring diagram (1P)

#### GMA41-TB specifications for regions using 110 voltage area in Asia. 2/3

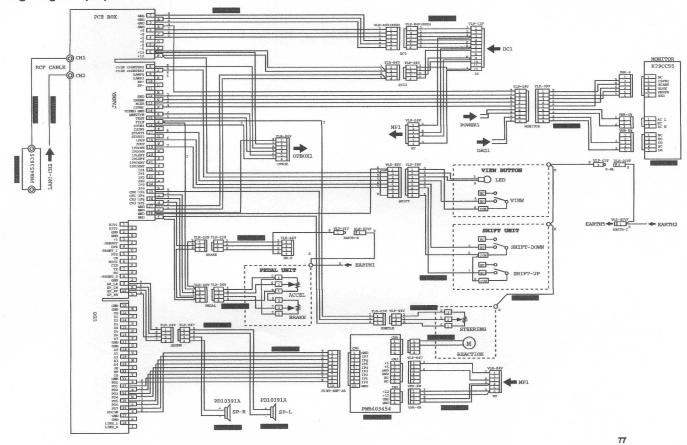






#### Wiring diagram (1P)

GMA41-HD specifications for regions using 220 voltage area in Asia. 2/3



## Wiring diagram (2P)

GMA41-HD specifications for regions using 220 voltage area in Asia. 3/3

