

namco[®]



TEKKEN 4

Game PCB Kit

Connections
and
Adjustments

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Contents

| | |
|---|----|
| KIT CONTENTS | 5 |
| 1. SPECIFICATIONS | 7 |
| 2. CABINET CONNECTIONS (Standard Jamma) | 7 |
| 3. CABINET CONNECTIONS (JVS Standard) | 11 |
| 4. FITTING THE DONGLE | 12 |
| 5. FITTING THE CD-ROM DISC | 13 |
| 6. ADJUSTMENTS AND SETTINGS | 15 |
| 6-1 Option Switches | 15 |
| 6-2 Test Mode | 16 |
| 6-2-1 Display Test | 16 |
| 6-2-2 Colour Edit | 18 |
| 6-2-3 Convergence | 18 |
| 6-2-4 Interlace | 19 |
| 6-2-5 Input Test | 20 |
| 6-2-6 Game Options | 21 |
| 6-2-7 Coin Options | 22 |
| 6-2-8 Sound Test | 23 |
| 6-2-9 JVS Status | 23 |
| 6-2-10 A. D. S - (Book Keeping) | 24 |
| 6-2-11 Data Clear | 25 |

KIT CONTENTS

| Description | Part No | Quantity |
|--|------------------------|----------|
| Tekken 4 PCB Rack Assy | XTEK4-PCB | 1 |
| DVD Rom CD Disc | XTEK4-CDROM | 1 |
| Jamma (B) PCB | XTEK4-JAMMA | 1 |
| Rack Assy to Jamma (B) PCB connecting cables | Power Supply Loom | 1 |
| | RGB Video Loom | 1 |
| | RCA (Phono) Audio Loom | 1 |
| | Data Loom | 1 |
| Amp EI connectors to 48way Edge Adaptor Loom | 69200067 | 1 |
| Amp EI connectors with Flying Leads Loom | 69200066 | 1 |
| Button Decals | | 1 set |
| Instruction Card | | 1 |
| Move List Card | | 1 |
| Title Board | | 1 |
| Tekken 4 Promotional Poster | | 1 |
| Top Flash | 40000703 | 1 |
| Universal Cabinet Side Decal - LHS / RHS | 40000704 | 2 |
| Header Decal | 40000705 | 1 |
| Connection and Adjustment Manual | 90500133 | 1 |

1. SPECIFICATIONS

COMPATIBILITY: JAMMA STANDARD (with JAMMA (B) PCB)
JAMMA VIDEO STANDARD (JVS)

PCB INPUT POWER: +5v ($\pm 5\%$) @ 7A (Min), +12v ($\pm 5\%$) @ 2A (Min)

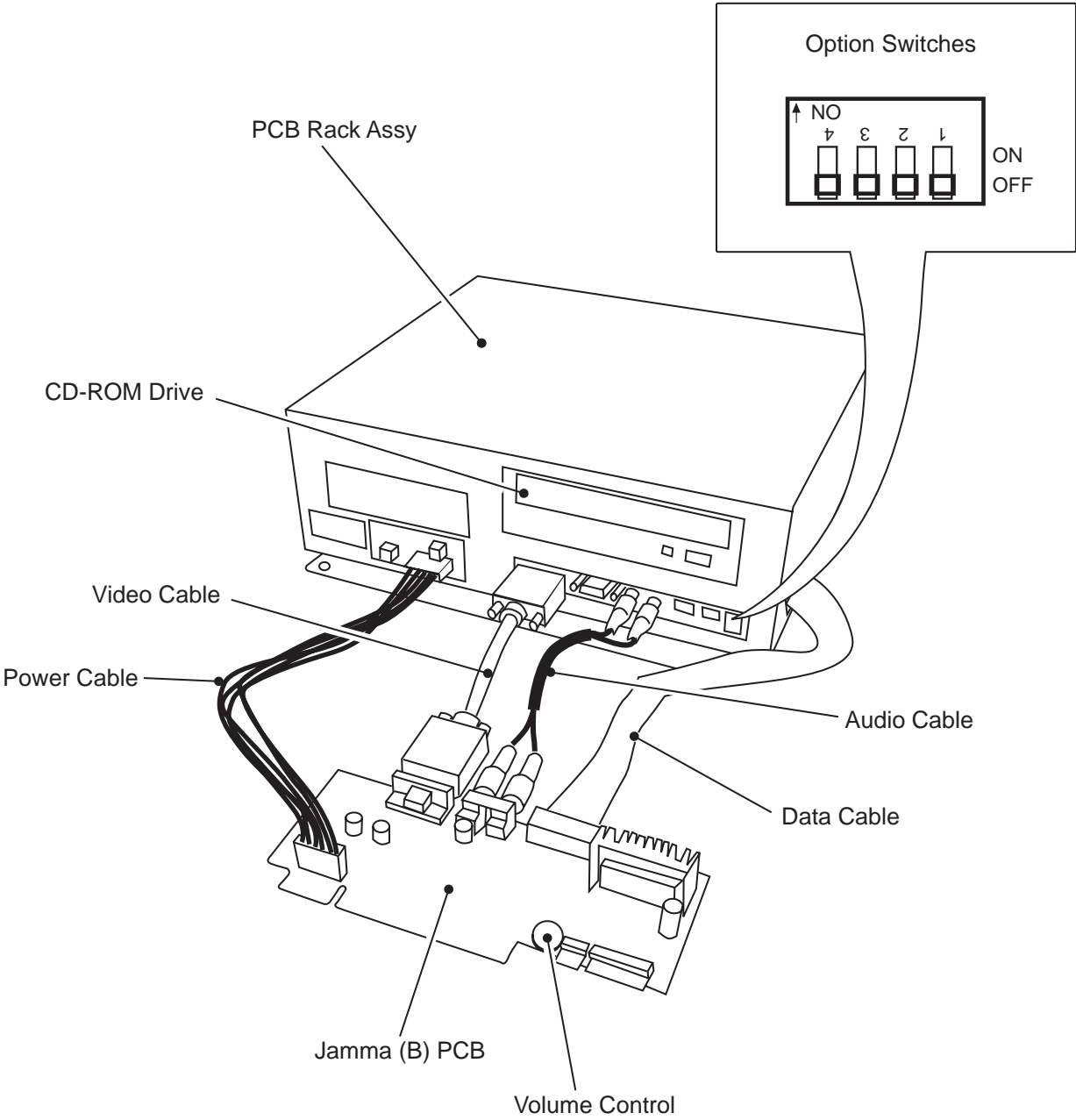
OPERATING ENVIRONMENT: Temperature +5°C to +45°C
Humidity 10% to 85% (no condensation)

MONITOR ORIENTATION AND SIGNAL: Horizontal Orientation
Horizontal Frequency 15kHz / 31kHz (selectable)

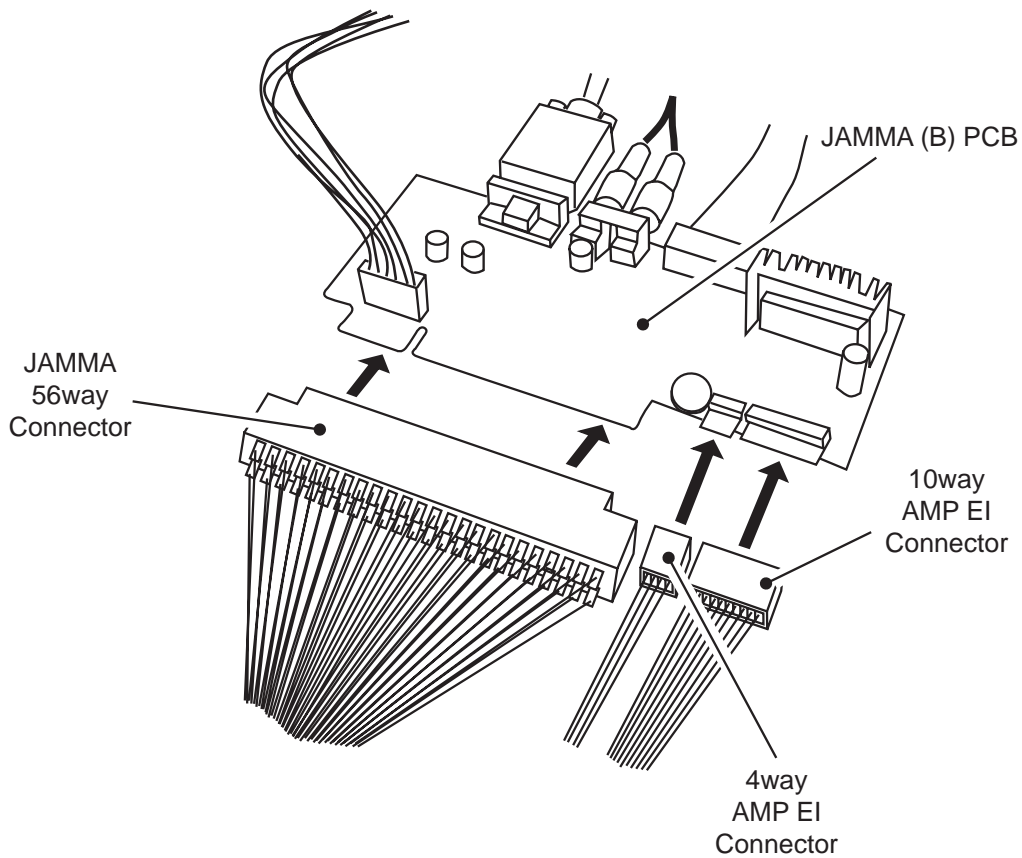
RGB output level 0.7V p-p / 3.0V p-p (selectable)
when set to 15kHz
0.7V p-p when set to 31kHz

Composite Sync / Separate Sync (selectable)

2. CABINET CONNECTIONS (Standard Jamma)



The JAMMA (B) PCB is connected to the game cabinet with a 56way Edge Connector (standard JAMMA) and 4 and 10way AMP EI Connectors.



Note: Supplied in the Kit is an Amp EI connectors to 48way extender card adaptor loom, for cabinets with an existing 48way connector, and an AMP EI connectors with flying leads loom for cabinets without a 48way connection.



4 and 10way AMP EI Connector with 48way Extender Card
Part No. 69200067



4 and 10way AMP EI Connector with flying leads
Part No.69200066

Connections for Standard JAMMA Cabinet

| TEKKEN 4 | | | |
|----------------------------|-------------|----|----------------------|
| JAMMA 56way Edge Connector | | | |
| Solder Side | Terminal No | | Component Side |
| GND | A | 1 | GND |
| GND | B | 2 | GND |
| +5volt | C | 3 | +5volt |
| +5volt | D | 4 | +5volt |
| | E | 5 | |
| +12volt | F | 6 | +12volt |
| Polarizing Key | G | 7 | Polarizing Key |
| Coin Counter 2 | H | 8 | Coin Counter 1 |
| | J | 9 | |
| L Speaker (-) | K | 10 | L Speaker (+) |
| Audio (-) (mono) | L | 11 | Audio (+) (mono) |
| Video GREEN | M | 12 | Video RED |
| Video SYNC | N | 13 | Video BLUE |
| SERVICE | P | 14 | Video GND |
| | R | 15 | TEST |
| Coin Switch 2 | S | 16 | Coin Switch 1 |
| P2 START | T | 17 | P1 START |
| P2 Lever UP | U | 18 | P1 Lever UP |
| P2 Lever DOWN | V | 19 | P1 Lever DOWN |
| P2 Lever LEFT | W | 20 | P1 Lever LEFT |
| P2 Lever RIGHT | Y | 21 | P1 Lever RIGHT |
| P2 PUNCH (Left) Sw1 | Z | 22 | P1 PUNCH (Left) Sw1 |
| P2 PUNCH (Right) Sw2 | a | 23 | P1 PUNCH (Right) Sw2 |
| P2 Sw3 Not used | b | 24 | P1 Sw3 Not Used |
| | c | 25 | |
| | d | 26 | |
| GND | e | 27 | GND |
| GND | f | 28 | GND |

| TEKKEN 4 | |
|------------------------|---------------------|
| 10way AMP EI Connector | |
| Pin No | Description |
| 1 | GND |
| 2 | |
| 3 | P2 KICK (Right) Sw5 |
| 4 | P2 KICK (Left) Sw4 |
| 5 | |
| 6 | |
| 7 | P1 KICK (Right) Sw5 |
| 8 | P1 KICK (Left) Sw4 |
| 9 | |
| 10 | GND |

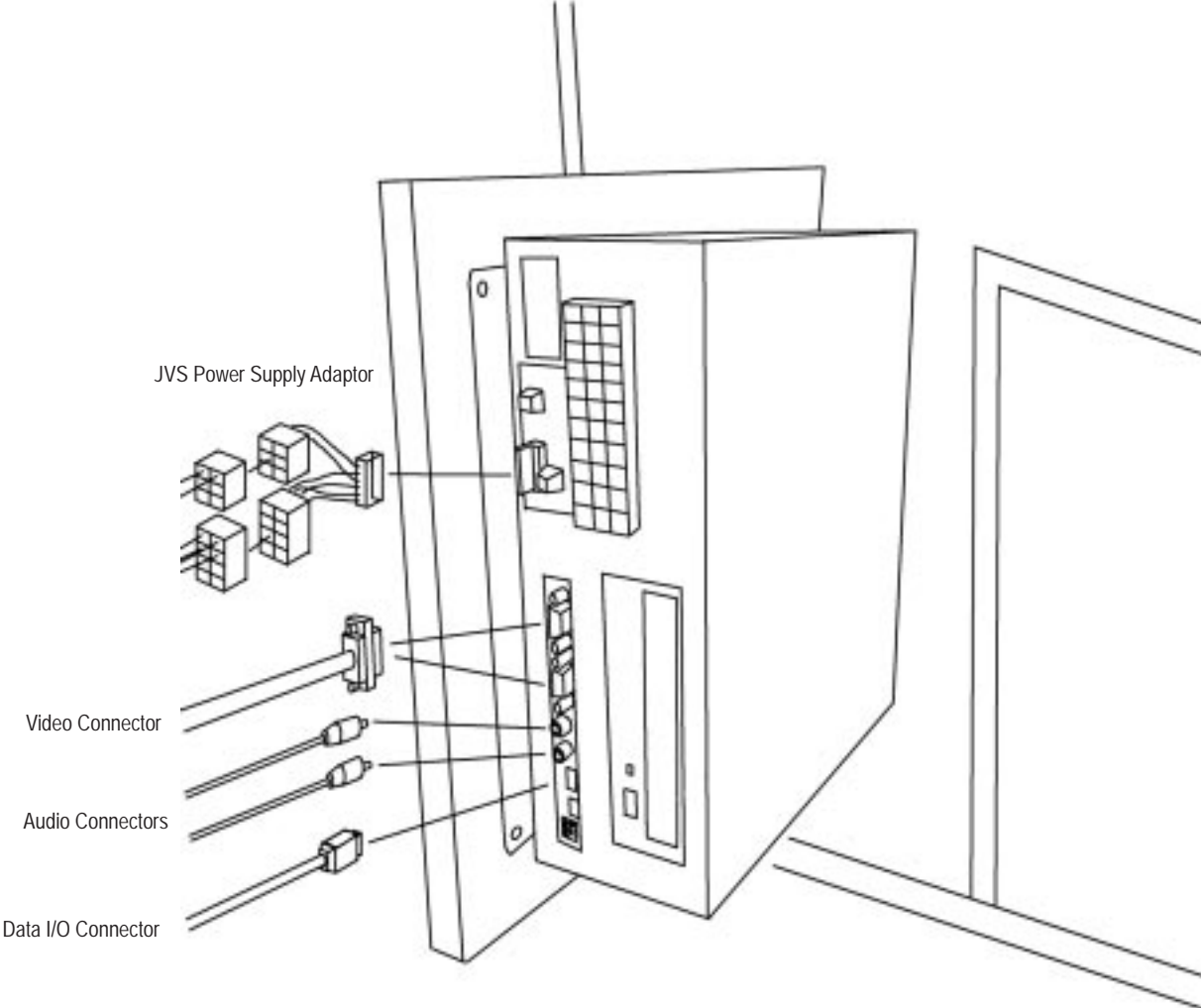
| TEKKEN 4 | |
|-----------------------|---------------|
| 4way AMP EI Connector | |
| Pin No | Description |
| 1 | |
| 2 | |
| 3 | R Speaker (+) |
| 4 | R Speaker (-) |

**Connector Loom
(Part no 69200066)**

**Adaptor for Earlier Tekken Series Cabinets
with 48way Edge Connector
(Part No 69200067)**

| PREVIOUS TEKKEN GAMES | | | | | | |
|------------------------------|--------------------|-------------|---------------------|---------------------|------------------|-------------------|
| 48way Extension Connector | | | | | | |
| Solder Side | | Terminal No | | Component Side | | |
| 4w AMP EI pin 4 | R Speaker (-) | A24 | B24 | R Speaker (+) | 4w AMP EI pin 3 | |
| | | A23 | B23 | | | |
| | | A22 | B22 | | | |
| | | A21 | B21 | | | |
| | Polarizing Key | A20 | B20 | Polarizing Key | | |
| | A19 | B19 | | | | |
| | A18 | B18 | | | | |
| 10w AMP EI pin 4 | P2 KICK (Left) Sw4 | A17 | B17 | P2 KICK (Right) Sw5 | 10w AMP EI pin 3 | |
| | | A16 | B16 | | | |
| | | A15 | B15 | GND | | 10w AMP EI pin 10 |
| | | A14 | B14 | GND | | 10w AMP EI pin 10 |
| | | A13 | B13 | | | |
| | A12 | B12 | | | | |
| | A11 | B11 | | | | |
| | A10 | B10 | | | | |
| | A9 | B9 | | | | |
| | A8 | B8 | GND | 10w AMP EI pin 1 | | |
| | A7 | B7 | GND | 10w AMP EI pin 1 | | |
| | A6 | B6 | P1 KICK (Right) Sw5 | 10w AMP EI pin 7 | | |
| 10w AMP EI pin 8 | P1 KICK (Left) Sw4 | A5 | B5 | | | |
| | | A4 | B4 | | | |
| | | A3 | B3 | | | |
| | | A2 | B2 | | | |
| | | A1 | B1 | | | |

3. CABINET CONNECTIONS (JVS Standard)

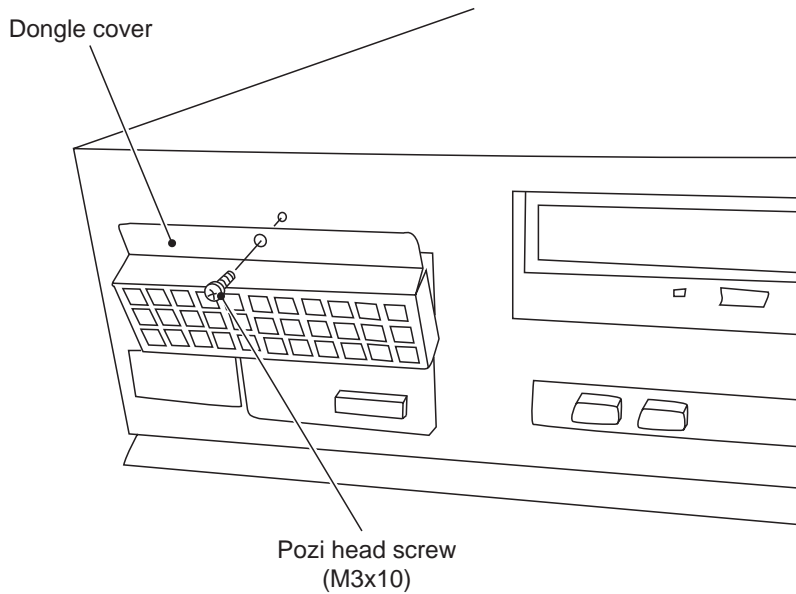


4. FITTING THE DONGLE

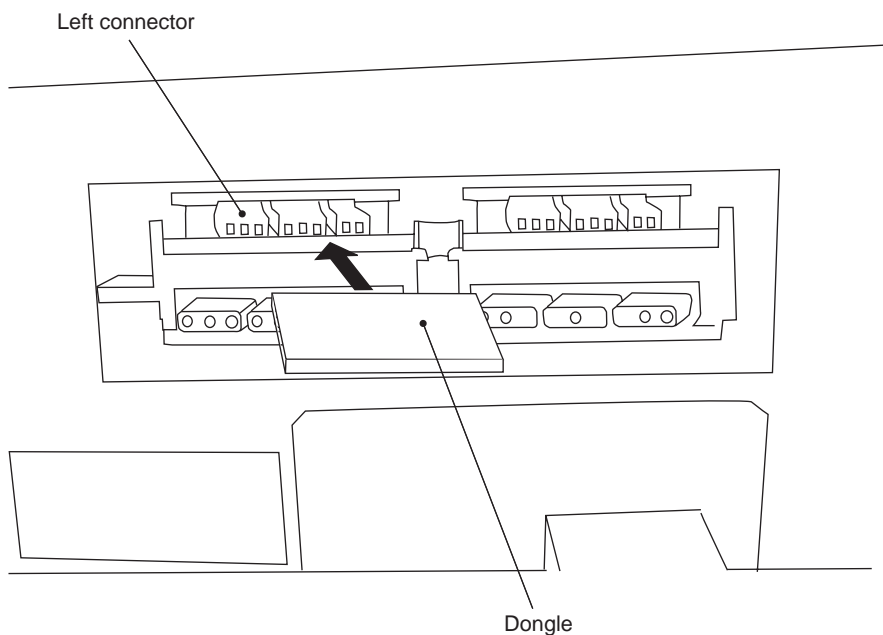
The dongle included in this kit is limited to this game only. DO NOT insert this Dongle in other games. Inserting the Dongle in other games may cause damage.

Ensure that the power is switched OFF before inserting the Dongle.

1. Remove 1 off pozi head screw (M3x10) and remove the Dongle Cover.



2. Fit the Dongle to the left hand connector.

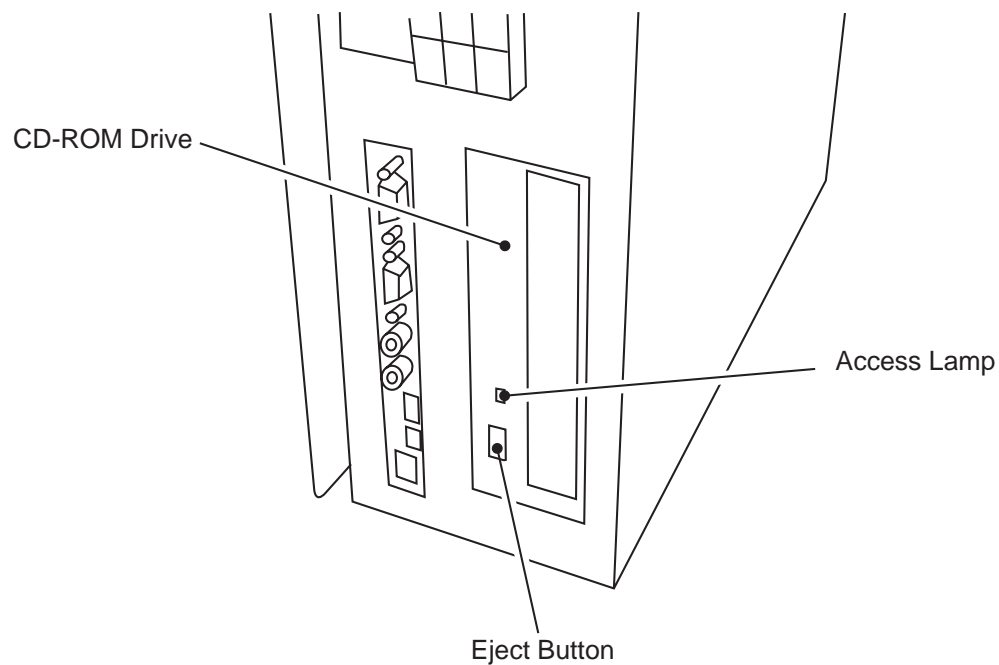


3. Refit the Dongle cover and pozi head screw (M3x10)

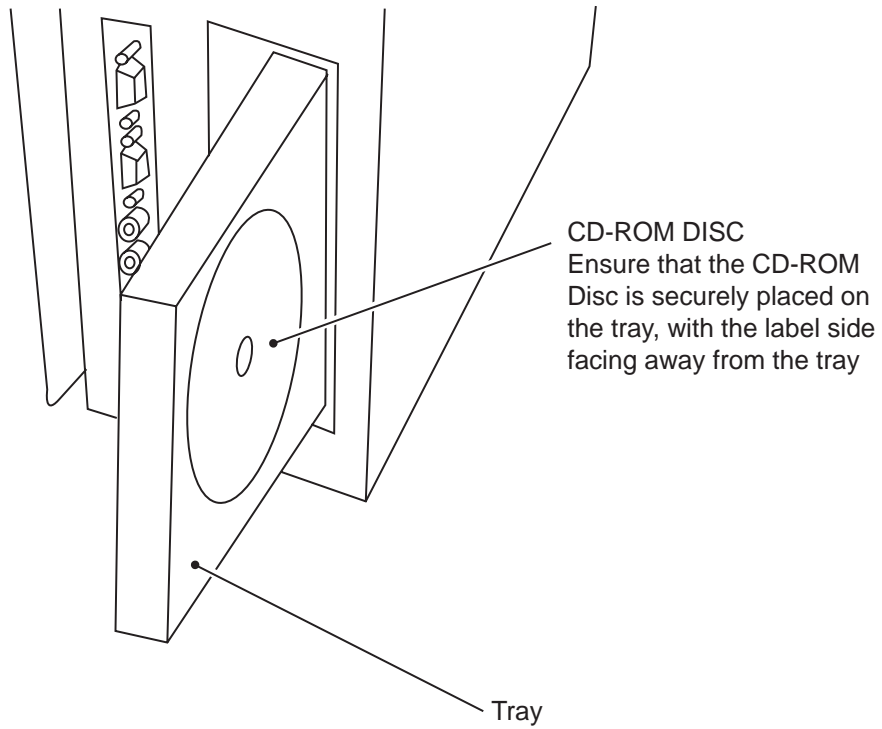
5. FITTING THE CD-ROM DISC

- The CD-ROM Disc must be inserted with the power switched on. To prevent an electric shock, accident or injury, do not touch any parts other than those specified below.
- The supplied CD-ROM Disc is designed exclusively for this product. Never use the CD-ROM Disc in any other product. Do not insert other CD-ROM Discs in the CD-ROM drive of this game.
- The CD-ROM tray retracts automatically after 10 seconds.

1. Press the eject button of the CD-ROM drive to open the tray.



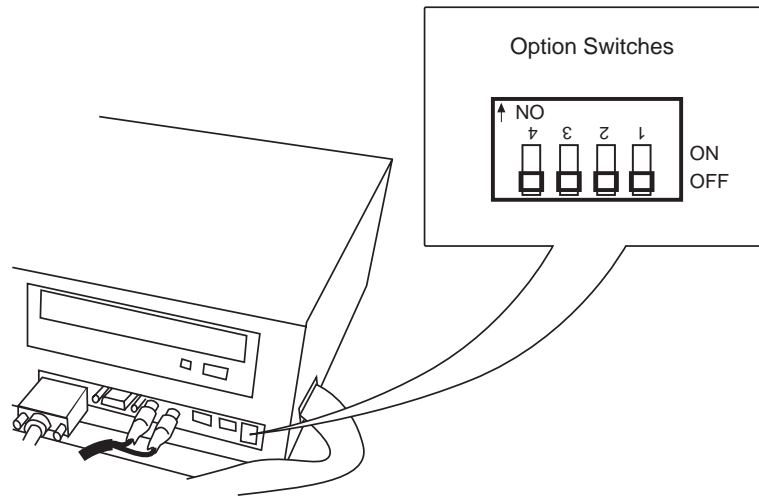
2. Place the CD-ROM Disc on to the tray, ensuring that the label side (printed surface) is facing away from the Tray.



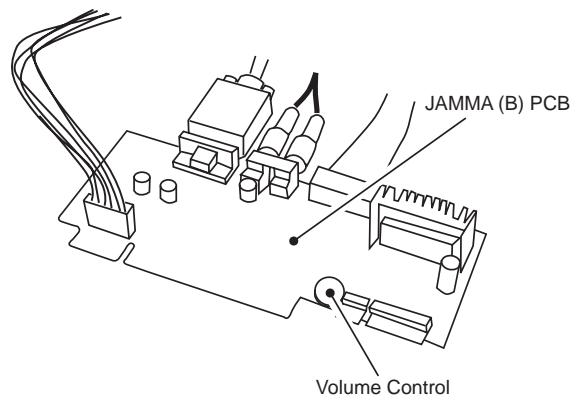
3. Press the Eject button to retract the Tray in to the unit.
4. Switch the power OFF, wait approx 10 seconds then switch the game back ON.

6. ADJUSTMENTS AND SETTINGS

The Game PC Board Assy is fitted with 4 Option Switches.



The JAMMA (B) PCB has the Volume Control fitted.



6-1 Option Switches

Switch 1 is used to change between Test Mode and Game Mode.

ON: Test Mode OFF: Game Mode

Switch 2 is used to set the output level of the video signal.

| | | |
|-------|--------------|---------------|
| 31kHz | ON: 0.7V p-p | OFF: 0.7V p-p |
| 15kHz | ON: 3.0V p-p | OFF: 0.7v P-P |

Switch 3 is used to change the monitor Sync Frequency

ON: 31kHz OFF: 15kHz

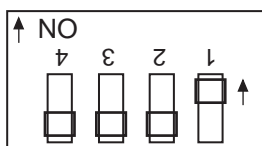
Note: When using a 31kHz monitor, set the RGB input of the monitor to 0.7v. If the monitor does not have a setting adjustment, refer to page 17 section 6-2-1 "Display Test", and change the Contrast and RGB Brightness levels to adjust the brightness.

Switch 4 is used to set the Video Sync Signal

ON: Composite Sync OFF: Seperate Sync

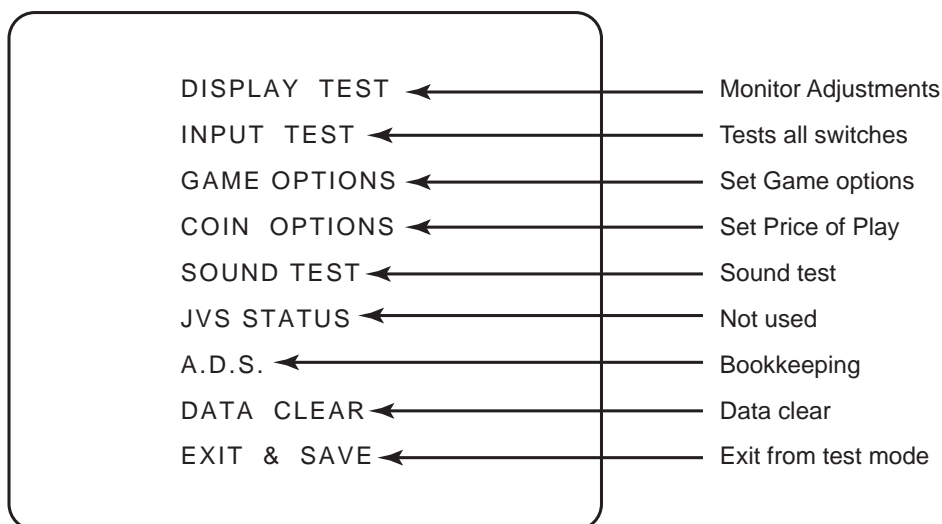
6-2 Test Mode

To enter Test Mode set the Test switch in the cabinet (if fitted) to ON, or if no Test switch is fitted to the cabinet, set Option switch 1 ON



Note: The test mode is activated only when the cabinet Test switch or Option switch 1 is moved from OFF to ON. If the game is switched on with either switch in the ON position the Test Mode will not be activated. The switch must be switched OFF and then ON to enter the test mode.

When the Test Mode is entered, the following screen is displayed.



Use the Joystick Up or Down to step through the tests. (The selected test will be displayed in red)

Press the 1 Player Button 1 to enter the selected test.

After making adjustments select EXIT and press the 1 Player Button 1 to return to the above screen. Select another test or select 'EXIT & SAVE' and press the 1 Player Button 1 to save the changes and return to the Game Mode.

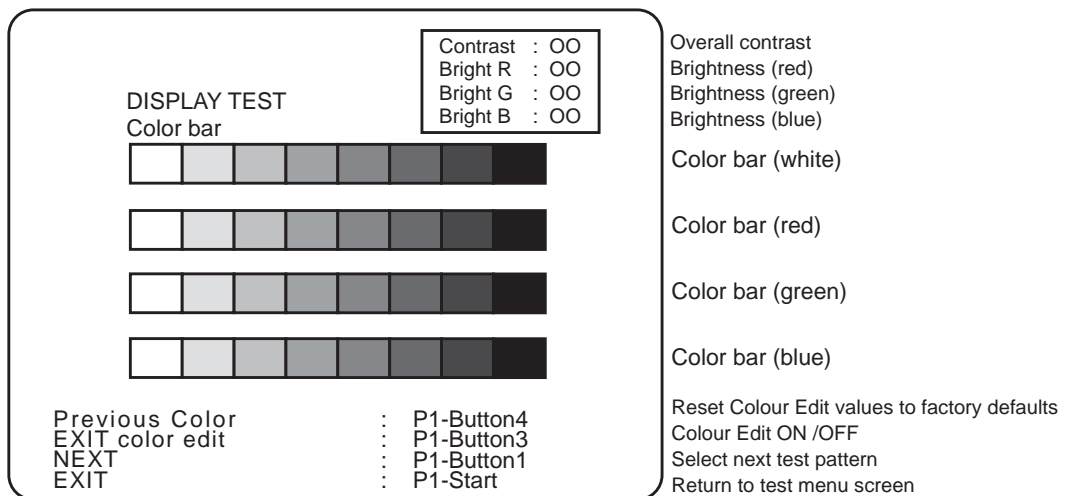
Note: If 'EXIT &SAVE' is not selected and activated, any changes made may not be stored properly. Switching the cabinet Test switch or Option 1 switch OFF does not exit the Test Mode.

Switch the cabinet Test switch or Option 1 switch OFF.

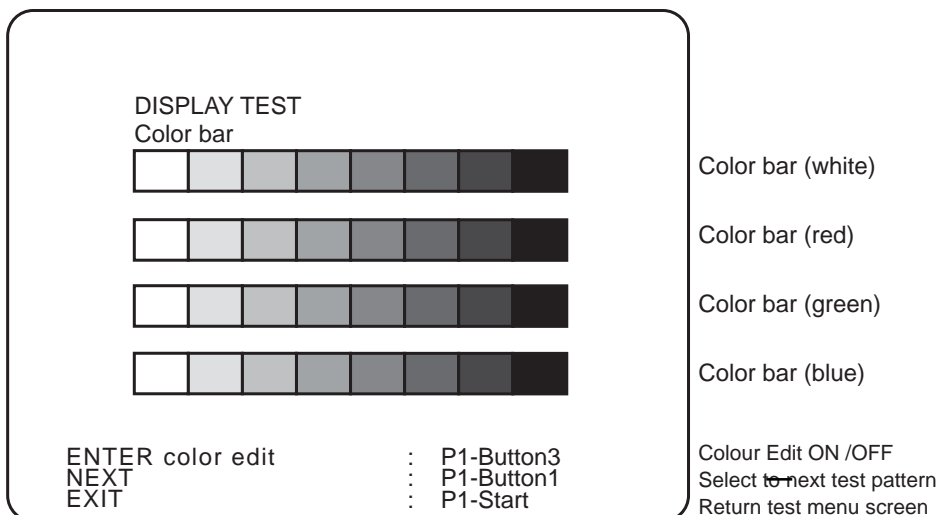
6-2-1 Display Test

This test allows the following checks and adjustments to be made.

- **Colour Edit**
Adjust contrast and brightness of each colour to match video output from the PCB to the Monitor.
Note: This adjustment should only be made if the correct picture quality cannot be achieved by using the normal monitor adjustments.
- **Convergence**
Check and adjust the size, position and distortion of the screen image.
- **Interlace Check**
Switches between interlaced and non-interlaced display. (Only with 15kHz video signal).



1. Select display Test from the Test Menu Screen, the following screen is displayed.



2. Each time the 1P Button 3 is pressed the Colour Edit adjustment box is turned ON or OFF.
3. Press the 1P Button 1 to step to the next test function
COLOUR BAR → CONVERGENCE → INTERLACE

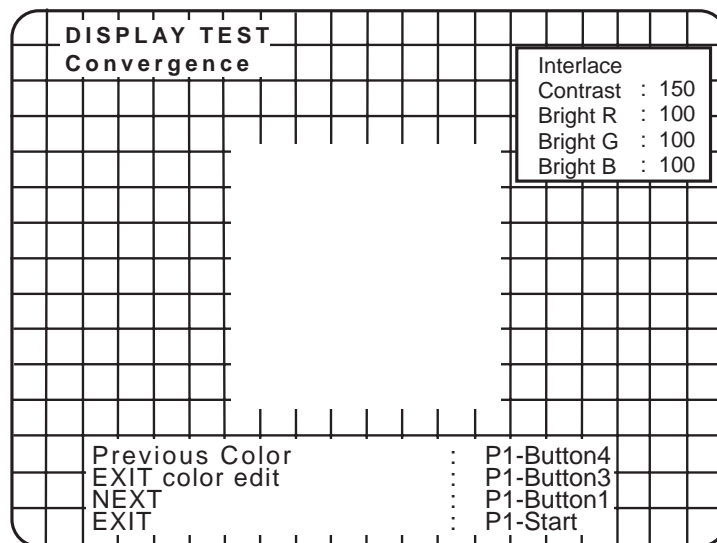


6-2-2 Colour Edit

1. Ensure that the Colour Edit Adjustment Box is showing. (Press P1 Button 3 if the Adjustment box is not displayed).
2. Use the Joystick UP/DOWN to step to the required adjustment. (Contrast, Brightness (red), Brightness (green), Brightness (blue)).
3. Use the Joystick LEFT/RIGHT to adjust the value.
3. When all adjustments have been made, press P1 Button 1 to step to the Convergence Test or P1 Start Button to return to the Main Test Menu screen

6-2-3 Convergence

Use this screen to adjust the geometry (height, width , etc.) of the Monitor.



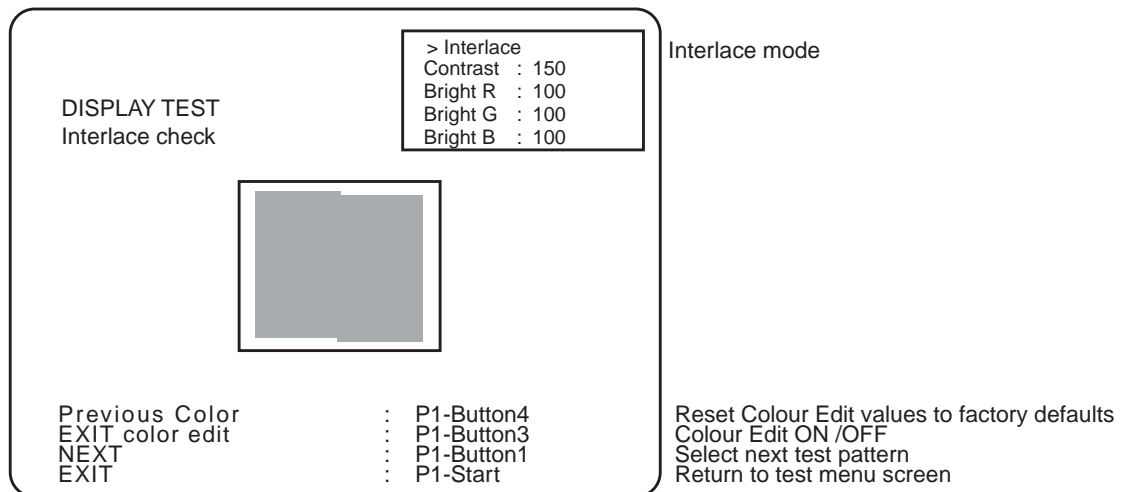
When all adjustments have been made, press P1 Button 1 to step to the Interlace Test or P1 Start Button to return to the Main Test Menu screen.

6-2-4 Interlace

Interlace Mode: This mode provides a more detailed and smoother graphics than the non-interlaced mode. This is achieved by shifting the picture display a half line in the vertical direction every other frame scan, so doubling the vertical resolution without changing the horizontal/vertical frequency.

Non-Interlaced Mode: Use this display if the interlace mode results in flicker over the entire screen display. In the non-interlaced mode, there is no shift of the display position, and the display remains constant every time.

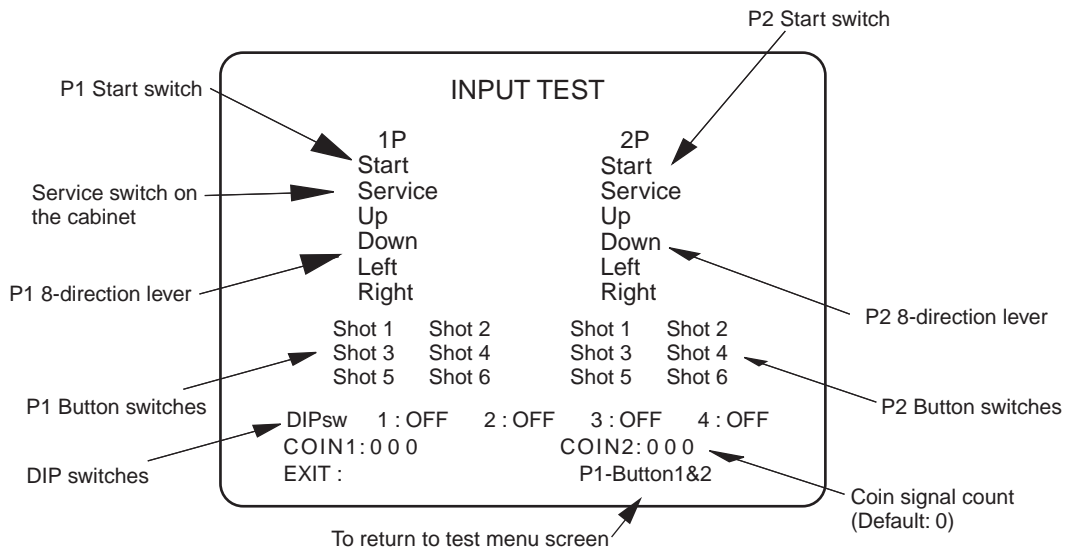
1. Ensure that the Colour Edit Adjustment Box is showing. (Press P1 Button 3 if the Adjustment box is not displayed.)
2. Use the Joystick LEFT/RIGHT to change Interlace/Non Interlace.



3. When the adjustment has been made, press P1 Button 1 to step back to the Colour Edit Test or P1 Start Button to return to the Main Test Menu screen.

6-2-5 Input Test

Select Input Test from the Main Test Menu. The following screen is displayed.



Each time a switch is operated, the corresponding item on the display will change colour to red.

*Note: When player button 1 is pressed Shot 1 is indicated.
When player button 2 is pressed Shot 2 is indicated
When player button 3 is pressed Shot 4 is indicated
When player button 4 is pressed Shot 5 is indicated*

When testing is completed, press P1 Buttons 1 and 2 together to return to the Main Test Menu screen.

6-2-6 Game Options

1. Select Game Options from the Main Test Menu. The following screen is displayed.

| GAME OPTIONS | |
|-----------------------|-----------------------------------|
| < Defaults in Green > | |
| (a) | Subtitles language: ENGLISH |
| (b) | Difficulty level: MEDIUM |
| (c) | Fight count <1P game> : 2 |
| (d) | Fight count <VS game> : 2 |
| (e) | Life bar <1P game> : +1 |
| (f) | Life bar <VS game> : +1 |
| (g) | Guard damage: OFF |
| (h) | Neutral guard: ON |
| (i) | Round time: 60 |
| (j) | Character change at continue: YES |
| (k) | Character change at VS game: YES |
| (l) | Sound in attract mode: YES |
| (m) | Event mode: OFF |
| (n) | Hit color: GREEN |
| Modify : | P1-Left/Right |
| EXIT : | P1-Start |

2. Use the Joystick UP/DOWN to step to the required adjustment.
3. Use the Joystick LEFT/RIGHT to adjust the value.
4. When all adjustments have been made, press P1 Start Button to return to the Main Test Menu screen

(a) Subtitles Language

| | | | | |
|---------|--------|---------|--------|---------|
| ENGLISH | FRENCH | SPANISH | GERMAN | ITALIAN |
|---------|--------|---------|--------|---------|

(b) Difficulty level (degree of game difficulty)

| | | | | | | | | |
|------|--------|------|-----------|------------|--------------|--------------|------------|------------------|
| EASY | MEDIUM | HARD | VERY HARD | ULTRA HARD | ULTRA HARD 1 | ULTRA HARD 2 | SUPER HARD | EXTRA SUPER HARD |
|------|--------|------|-----------|------------|--------------|--------------|------------|------------------|

(c) Fight Count <1P game > (number of rounds required to win the game in 1 player mode)

| | | | | |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|

(d) Fight Count <VS game > (number of rounds required to win the game in 2 player mode)

| | | | | |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|

(e) Life bar <1P game > (energy guage in 1 player mode)

| | | | | |
|----|----|--------|----|----|
| -2 | -1 | NORMAL | +1 | +2 |
|----|----|--------|----|----|

(f) Life bar <VZ game > (energy guage in 2 player mode)

| | | | | |
|----|----|--------|----|----|
| -2 | -1 | NORMAL | +1 | +2 |
|----|----|--------|----|----|

(g) Guard damage (damage received on guard)

| | |
|--------------------|-----------------|
| ON (slight damage) | OFF (no damage) |
|--------------------|-----------------|

(h) Neutral guard (guard activated with lever in neutral)

| | |
|----|-----|
| ON | OFF |
|----|-----|

(i) Round time (time [seconds] per round)

| | | | | |
|----|----|----|----|----|
| 30 | 40 | 60 | 80 | 99 |
|----|----|----|----|----|

(j) Character change at continue (change of character for continued game)

| | |
|----------------|-------------------|
| YES (possible) | NO (not possible) |
|----------------|-------------------|

(k) Character change at VS game (change of character

| | |
|----------------|-------------------|
| YES (possible) | NO (not possible) |
|----------------|-------------------|

(l) Sound in attract mode

| | |
|------------------|--------------------|
| YES (with sound) | NO (without sound) |
|------------------|--------------------|

(m) Event mode (action after 2 player game has finished)

| | |
|---------------------------------|---|
| ON (game over for both players) | OFF (1P game play continues for winner) |
|---------------------------------|---|

(n) Hit colour (colour of graphic effects when attacks are successful)

| | |
|-----|-------|
| RED | GREEN |
|-----|-------|

6-2-7 Coin Options

- Select Coin Options from the Main Test Menu. The following screen is displayed.

| COIN OPTIONS | |
|-------------------|---|
| Defaults in Green | |
| (a) | > Start Cost 1Credit to START |
| (b) | Continue Cost 1Credit to CONTINUE |
| (c) | Coin chute 1 mechanical value 1Coin count as 1coin |
| (d) | Coin chute 2 mechanical value 1Coin count as 1coin |
| (e) | Credit mode COMMON |
| (f) | Coin counter 1counter |
| (g) | Free play no |
| Modify : | P1-Left/Right |
| EXIT : | P1-Start |

- Use the Joystick UP/DOWN to step to the required adjustment.
- Use the Joystick LEFT/RIGHT to adjust the value.
- When all adjustments have been made, press P1 Start Button to return to the Main Test Menu screen

Note: When using a CashFlow acceptor ensure that Cost and Coin Chute values are set to 1

- (a) Start cost (number of credits to start a game)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|

- (b) Continue cost (number of credits to continue a game - must be equal to or smaller than start cost)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|

- (c) Coin chute 1 mechanical value (number of credits for each coin)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|

- (d) Coin chute 2 mechanical value (number of credits for each coin)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|

- (e) Credit Mode (credit storage and use)

| | |
|--|---|
| <p>COMMON Credits are stored as a single account regardless of which coin switch or start switch is operated.</p> | <p>EACH ONE Different credit accounts are established. Credits from coin 1 are used by player 1 and credits from coin 2 are used by player 2</p> |
|--|---|

- (f) Coin counter (assignment of coin meters)

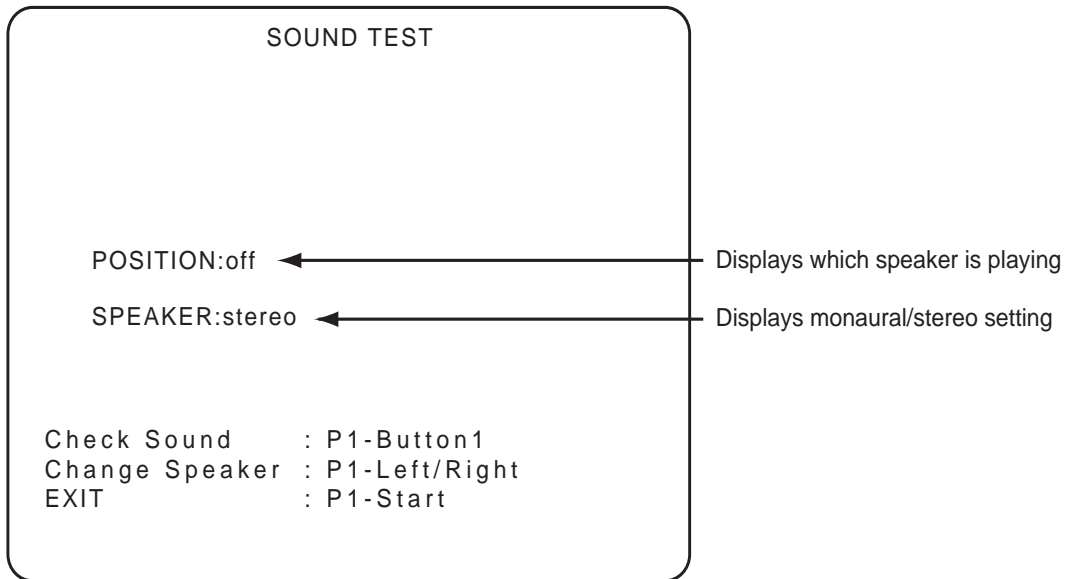
| | |
|---|--|
| <p>1 COUNTER Both coin switches share one coin counter</p> | <p>2 COUNTERS Each coin switch has its own coin counter</p> |
|---|--|

- (g) Free play

| | |
|-------------------------|---------------------|
| YES (no coins required) | NO (coins required) |
|-------------------------|---------------------|

6-2-8 Sound Test

1. Select Sound Test from the Main Test Menu. The following screen is displayed.



2. Press 1P Button 1 to conduct a stereo check. Sound will be produced from the left speaker only, then the right speaker only, then both speakers together. The display will show which speaker is active.
3. Use the Joystick LEFT/RIGHT to change between STEREO/MONO sound.
4. When testing has been completed, press P1 Start Button to return to the Main Test Menu screen

6-2-9 JVS Status

This test is inactive and not used on JAMMA system cabinets, it is only operational on JVS system cabinets.

6-2-10 A. D. S - (Book Keeping)

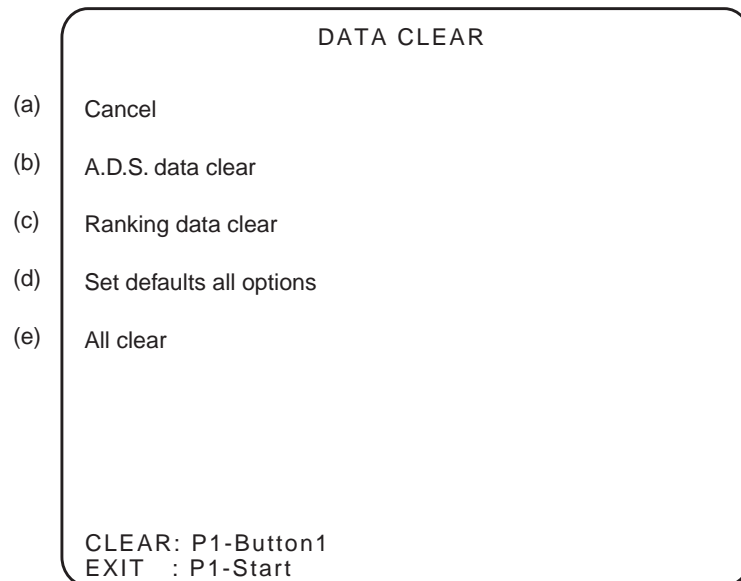
1. Select ADS from the Main Test Menu. The following screen is displayed.

| | | | | | |
|-----|----------------|------------|---------------|---------|-----|
| | ADS | | ON TIME | x:xx:xx | (e) |
| (a) | Coin 1 Total | xx | Play Ratio | 100% | (f) |
| (b) | Coin 2 Total | xx | 1P Play Ratio | xx.x% | (g) |
| (c) | Service Total | xx | VS Play Ratio | xx.x% | (h) |
| (d) | Freeplay Total | xx | | | |
| | | | | | |
| | | Total Time | Count | Average | |
| (i) | 1P Play | x:xx:xx | xxx | x:xx:xx | |
| (j) | 1P Cont. | x:xx:xx | xxx | x:xx:xx | |
| (k) | VS Play | x:xx:xx | xxx | x:xx:xx | |
| (l) | All Play | x:xx:xx | xxx | x:xx:xx | |
| | | | | | |
| | EXIT : | | P1-Start | | |

- (a) Total games on 1 player side.
- (b) Total games on 2 player side.
- (c) Total number of games using the Service switch.
- (d) Total number of games during Free Play.
- (e) Total time game has been switched on.
- (f) Total time the game has been played as a 1P game, Total number of 1P games played and the Average time of a 1P game.
- (g) Total time the game has been played as a 1P Continue game, Total number of 1P Continue games played and the Average time of a 1P Continue game.
- (h) Total time the game has been played as a 2P game, Total number of 2P games played and the Average time of a 2P game
- (g) Total time the game has been played, Total number of games played and the Average time of all games.

6-2-11 Data Clear

1. Select Data Clear from the Main Test Menu. The following screen is displayed.



2. Use the Joystick UP/DOWN to step to the required adjustment.
3. When all adjustments have been made, press P1 Start Button to return to the Main Test Menu screen
 - (a) Returns to the Main Test Menu.
 - (b) Resets all Book Keeping data to zero
 - (c) Resets all ranking data such as record of consecutive wins to factory default
 - (d) Resets all Game and Coin Options to factory default.
 - (e) Executes (a), (b) and (c) all at once.

Copies of Namco Game Manuals can be downloaded from our **website:**

www.namco.co.uk

They are located under Components Distribution

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