

OPERATOR'S MANUAL



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[Important Safety Instructions]

- Turn off power before installation and removal of the circuit board.
- Turn off power before changing the setting of any DIP switch.
- $\boldsymbol{\cdot}$ Use board edge connectors that conform to the JAMMA standard.
- Do not touch the heat sink or components when you hold the board since the heat sink and some components are very hot.
- $\boldsymbol{\cdot}$ Set the board so that the heat sink is always well ventilated.
- Avoid strong physical shock on the board and do not get it wet.
- · Do not disassemble or rebuild the board.

[Contents]

- Manual
- Instruction card

Circuit I	board
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(BBI-01W)	1 сору
(BBI-02W)	1 сору
	1 board

[Settings]

- Edge connector on circuit board JAMMA Standard
- Monitor Direction VERTICAL SCREEN
- · Supply voltages to the board

+5V(2A or greater) + 12V(1A or greater)(Maintain each voltage within $\pm 5\%$ range.)



*Maximum credits-9.

[Pin Assignment]

JAMMA Standard					
SOLDER SIDE			PARTS SIDE		
GND	Α	1	GND		
GND	в	2	GND		
+5V	С	з	+5V		
- +5V	D	4	+5V		
N.C.	Е	5	N.C.		
+12V	F	6	+12V		
	н	7			
COIN COUNTER 2	J	8	COIN COUNTER 1		
(COIN LOCK OUT 2)	к	9	(COIN LOCK OUT 1)		
SP(-)	L	10	SP(+)		
N.C.	м	11	N.C.		
VIDEO GREEN	N	12	VIDEO RED		
VIDEO SYNC	Р	13	VIDEO BLUE		
SERVICE SW	R	14	VIDEO GND		
N.C.	S	15			
COIN SW 2	т	16	COIN SW 1		
START SW 2	U	17	START SW 1		
2P UP	v	18	1P UP		
2P DOWN	w	19	1P DOWN		
2P LEFT	х	20	1P LEFT		
2P RIGHT	Y	21	1P RIGHT		
2P PUSH 1	z	22	1P PUSH 1		
2P PUSH 2	а	23	1P PUSH 2		
2P PUSH 3	b	24	1P PUSH 3		
N.C.	с	25	N.C.		
N.C.	d	26	N.C.		
GND	е	27	GND		
GND	f	28	GND		

[Test Mode]

To enter test mode, set DIP switch 1-1 on the board ON, and then turn on power.

Caution: Turn off power before changing the setting of any DIP switch.

Select a test item by moving the 1P lever to the appropriate vertical position and press the 1P PUSH1. The screen for the selected test item appears.



[DIP Switch Settings]

Allows you to perform input tests, DIP switch setting tests, and monitoring screen checking. Selecting this mode on the TEST MENU screen initiates the ROM RAM CHECK. On the screen after the ROM RAM CHECK, pressing the 1P and 2P start buttons simultaneously brings you to the IO CHECK screen.

·			
a	DIP SWITCH SETTING		1.IO CHECK screen
DIP SWI 1 ON 2 OFF 3 OFF 4 OFF	TCH 1 TEST MODE STARTING COIN COIN 1 1 COIN	TEST 1 CREDIT 1 CREDIT	Lets you test switches, buttons, and the lever of the machine. If the screen changes from OFF to ON after you press a switch, a button, and the lever, the machine is verified as normal.
5 OFF 6 OFF 7 OFF 8 OFF	COIN 2 1 COIN	1 CREDIT	Pressing the 1P and 2P start buttons simultaneously brings you to the DIP SWITCH SETTING screen. 2.DIP SWITCH SETTING screen
DIP SWI	TCH 2 START RANK	NORMAL	Lets you check the settings of the DIP switches on the board, such as the type of coin and
2 OFF 3 OFF	TIMER RANK	NORMAL	the degree of difficulty.
4 OFF 5 OFF	PLAYER COUNTS	3	(See the table of DIP switch settings for each setting.) Caution: Turn off power before changing the setting of any DIP switch.
6 OFF 7 OFF 8 OFF	EXTRA PLAYER	2000000 EACH	Check the settings only on the DIP SWITCH SETTING screen. Pressing the 1P and 2P start buttons simultaneously brings you to the COLOR CHECK
DIP SWI 1 OFF 2 OFF 3 OFF 4 OFF 5 OFF 6 OFF 7 OFF 8 OFF	TCH 3 SCREEN FLIP DEMO SOUND STAGE EDIT CONTINUE PLAY INVINCIBLE SCORE RANKING NO USE NO USE	OFF ON DISABLE ENABLE OFF SAVE	screen. 3.COLOR CHECK screen Allows you to check color shades and brightness of the screen using each color bar. Adjust the machine screen using the above check results as guidelines. Pressing the 1P and 2P start buttons simultaneously brings you to the SCREEN CHECK
-	PRESS 1P & 2P STA TO CHANGE TEST IT		screen. 4.SCREEN CHECK screen
2.1	DIP SWITCH SETTING S	screen	Allows you to check the size and distortion of the screen using the cross-hatched screen. Adjust the machine screen using the above check results as guidelines. Pressing the 1P and 2P start buttons simultaneously initiates return to the MENU screen.

If you want to return to a normal game screen after checking the test mode, turn off power before turn DIP switch 1-1 on the board OFF, and then turn on power again.

[BATTLE BAKRAID DIP SWITCH]

DIP SWITCH1		1	2	3	4	5	6	7	8
TEST MODE	NORMAL PLAY	OFF							
	TEST PATTERN	ON							
STARTING COIN	1 CREDIT		OFF						
	2 CREDITS		ON						
	1 COIN 1 CREDIT			OFF	OFF	OFF			
	1 COIN 2 CREDITS			ON	OFF	OFF]		
	1 COIN 3 CREDITS			OFF	ON	OFF	1		
COIN 1	1 COIN 4 CREDITS			ON	ON	OFF	1		
	2 COINS 1 CREDIT			OFF	OFF	ON	1		
	3 COINS 1 CREDIT			ON	OFF	ON	1		
	4 COINS 1 CREDIT			OFF	ON	ON	1		
	1 COIN 1 CREDIT					1	OFF	OFF	OF
	1 COIN 2 CREDITS	11					ON	OFF	OFI
	1 COIN 3 CREDITS						OFF	ON	OFI
COIN 2	1 COIN 4 CREDITS						ON	ON	OFI
0011/2	2 COINS 1 CREDIT						OFF	OFF	ON
	3 COINS 1 CREDIT	2.1					ON	OFF	ON
	4 COINS 1 CREDIT						OFF	ON	ON
FREE PLAY	4 COINS T CREDIT			ON	ON	ON	ON	ON	ON
and a second								OFF	
DEFAULT SETTING		OFF	OFF	OFF	OFF	OFF	OFF		OFI
DIP SWITCH2		1	2	3	4	5	6	7	8
START RANK	NORMAL	OFF	OFF		-				
(Game start difficulty setting)	EASY	ON	OFF	1					
(course course course course) (course)	HARD	OFF	ON			1			
	VERY HARD	ON	ON						
	If the customer is not playing the	and a second second second	1	difficulty	setting	it is us	seful to	.I	
	change the game start difficulty to								
TIMER RANK	NORMAL	1		OFF	OFF	1			
(How the difficulty rate	LOW			ON	OFF	1			
increases during the game)	HIGH			OFF	ON	-			
increases during the game)	HIGHEST			ON	ON	-			
	If the playing time per customer is		it ic uco		1	l an diffici	ulty	L	
4	increase rate to a higher rate and								
			ying un			OFF	OFF	T	
PLAYER COUNTS	3								
	4					ON	OFF	-	
	2					OFF	ON	-	
	1					ON	ON	055	
EXTRA PLAYER	2,000,000 EACH							OFF	OFF
	3,000,000 EACH							ON	OFF
	4,000,000 EACH							OFF	ON
	NO EXTRA							ON	ON
DEFAULT SETTING	- 	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OF
		1.4		2	4	5	6	7	8
DIP SWITCH 3		0FF	2	3	4	5	0		0
SCREEN FLIP	OFF								
	ON	ON	055		1.4.50			100 m	
DEMO SOUND	ON		OFF	-			la Hig	44	
1	NO SOUND		ON				<u> </u>		
STAGE EDIT	DISABLE			OFF				8 (m)	
	ENABLE			ON	-				
		a i i			OFF			-	
CONTINUE PLAY	ENABLE				ON	1		1	
CONTINUE PLAY	DISABLE								
						OFF	10		
	DISABLE					OFF ON	5		
INVINCIBLE	DISABLE OFF		£				OFF		
CONTINUE PLAY INVINCIBLE SCORE RANKING	DISABLE OFF ON						OFF	-	
INVINCIBLE	DISABLE OFF ON SAVE				014			OFF	OFI