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MANUAL

CAUTION

①This board is equipped with custom CPU and back-up batteries. Removing the custom CPU or causing a short in the batteries will result in the board not functioning. This, in turn, will mean machine down-time and repair expenses.

②If the machine remains unused for a month or longer, the back-up batteries will be drained of power and the board will not operate.

③Parts of the wiring in the cabinet can cause interference to the service switch sensitivity to the coin chute. In such cases, use the machine without the service switch circuit.

CAPCOM

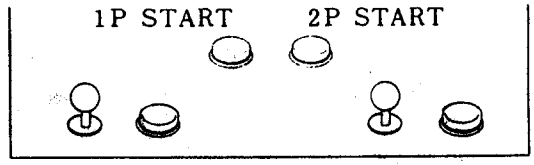
●LAYOUT

○CRT Monitor　　Horizontal Screen

○Control Panel

Control Lever

Shot



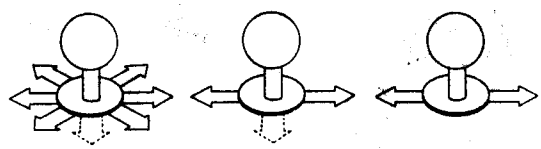
Horizontal 2-Player Control Panel

○How to play

- Control Lever　　used to move the paddle left and right
- Shot button　　used to shoot a ball or to skip the demo sequence and to accelerate the paddle.

○Maximum number of credit is 9

○8-way, 4-way, 2-way, Control Levers are all available.



●TEST SWITCH

This board uses a different set up from the former DIP SW system for Test Programming, Difficulty Levels, etc. The process is carried out in a single operation while watching the screen. This is a new system made possible by the Test Switch.

●OPERATION OF TEST SWITCH

```
(TEST MENU)
*GAME ANALYZER
 GAME INFORMATION
 COLOR                TEST
 IN & OUTPUT          TEST
 DOT CROSS HATCH
 SOUND & VOICE        TEST
 EXIT
```

○Turn power switch to ON. Then press the Test Switch located on the board.

- The display pictured at left will appear on the screen.
- Shift the (*) mark on the screen with the Control Lever to select mode. Then press 1P-SHOT button. The respective TEST displays will appear.

  NOTICE: Selected mode turns orange.

- Press 1P START and 2P START button simultaneously at each TEST display. The MENU display will appear. If EXIT is chosen at this point, game commences.

●GAME ANALYZER

○Choose GAME ANALYZER at MENU screen and GAME ANALYZER screen will appear. Detailed income information will be shown.

COIN COUNTER	Total number of the coins
CREDIT COUNTER	Total number of the credits
POWER ON TIME	Total operated hours of the board
GAME COUNT	Total number of game play for 1P and 2P
GAME TIME	Total hours of game play for 1P and 2P
AV. TIME	Averaged play time for 1P and 2P

※1 Blue: Information for NORMAL course
Red:: Information for BEGINNER course

※2 All data will be reset when 1P SHOT and 2P SHOT are pressed simultaneously.

●GAME INFORMATION

○With MENU displayed on screen, select GAME INFORMATION and GAME INFORMATION screen will appear.

○Various settings including DIFFICULTY LEVEL can be changed in this screen. Move (*) mark with the Control Lever to your required item. Then press 1P-SHOT button to change the setting.

○When the setting is completed, move (*) mark and select EXIT. The MENU screen will appear again.

START	1 COIN 1 CREDIT	1 COIN 2 CREDITS	1 COIN 3 CREDITS	1 COIN 4 CREDITS	1 COIN 6 CREDITS	2 COINS 1 CREDIT	3 COINS 1 CREDIT	4 COINS 1 CREDIT
CONTINUE	The number of coins required to continue							
CONTINUE COIN	ON: Game starts with 2 COINS and continues with 1 COIN regardless of the setting of "START"			OFF				
PLAYER	1	2	3	4	5	6	7	8
FLIP FLOP	ON	OFF						
LEVEL MODE A	1	2	3	4	5	6	7	8
LEVEL MODE B	1	2	3	4	5	6	7	8
LEVELS	MODE A: As the number gets bigger, the ball gets faster. MODE B: As the number gets smaller, the paddle gets harder.							
EXTEND	1ST 50000 EVERY 100000		1ST 70000 EVERY 150000		1ST 100000 EVERY 200000		NO EXTEND	
FREE PLAY	ON	OFF						
DEMO SOUND	ON	OFF						
CONTINUE	ON	OFF						

Meshed area indicates the factory setting.

●OTHER PROGRAMS

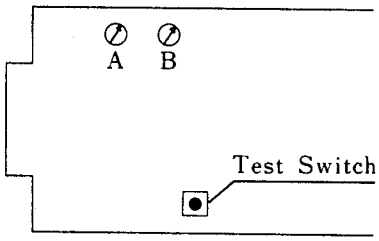
○COLOR TEST — For color adjustment

○IN & OUTPUT TEST — Programs for checking control panel, coin counter, etc.

○DOT CROSS HATCH — For H:V ratio adjustment

○SOUND & VOICE TEST — For sound and voice check

●Test Switch Volume Position



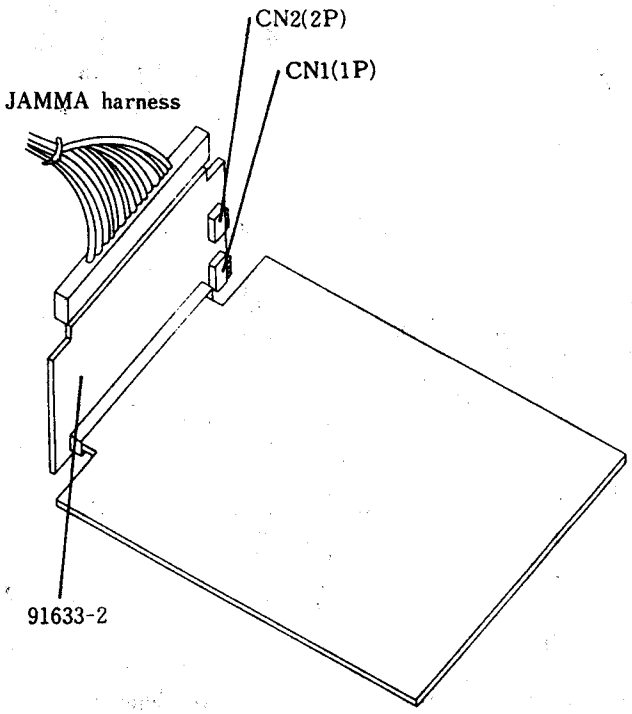
A: Total Volume Control
B: Voice Volume Control

●CONNECTOR

JAMMA STANDARD

SOLDER SIDE			COMPONENTS SIDE
GND	A	1	GND
GND	B	2	GND
+5V	C	3	+5V
+5V	D	4	+5V
N.C.	E	5	N.C.
+12V	F	6	+12V
	H	7	
N.C.	J	8	COIN COUNTER 1
N.C.	K	9	(COIN LOCK OUT 1)
SP (−)	L	10	SP (+)
N.C.	M	11	N.C.
VIDEO GREEN	N	12	VIDEO RED
VIDEO SYNC	P	13	VIDEO BLUE
SERVICE SW	R	14	VIDEO GND
N.C.	S	15	TEST SW
N.C.	T	16	COIN SW 1
START SW 2	U	17	START SW 1
N.C.	V	18	N.C.
N.C.	W	19	N.C.
N.C.	X	20	N.C.
N.C.	Y	21	N.C.
2P SHOT	Z	22	1P SHOT
N.C.	a	23	N.C.
N.C.	b	24	N.C.
N.C.	c	25	N.C.
N.C.	d	26	N.C.
GND	e	27	GND
GND	f	28	GND

●HOW TO CONNECT THE SPECIAL HARNESS



CN 1			CN 2
+5V	1	1	+5V
DATA	2	2	DATA
CLOCK	3	3	CLOCK
GND	4	4	GND

① 348 ON

② 34 ON

● PARTS NAME

CR7E-56DA-3.96E : (HIROSE)
OR
1168-056-009 : (KEL)

CAPCOM CO.,LTD.
No. 1-12, TOKIWAMACHI 2-CHOME,
CHUO-KU, OSAKA 540, JAPAN
TEL (06) 946-2058 FAX NO. (06) 946-6657