MANUAL DE INSTRUCCIONES
OPERATING MANUAL

TWINS

ECOGAMES   1993

TWINS

JAMMA WIRING

BOTTOM				TOP		
GND			1	GND		
GND			2	GND		
+5 VDC			3	+5 VDC		
+5 VDC			4	+5 VDC		
			5			
+12 VDC			6	+12 VDC		
			7			
			8			
			9			
SPEAKER (-)			10	SPEAKER (+)		
			11			
GREEN			12	RED		
SYNCRO			13	BLUE		
			14			
			15			
COIN 2			16	COIN 1		
START	PLAYER 2		17	START	PLAYER 1	
UP	PLAYER 2		18	UP	PLAYER 1	
DOWN	PLAYER 2		19	DOWN	PLAYER 1	
LEFT	PLAYER 2		20	LEFT	PLAYER 1	
RIGHT	PLAYER 2		21	RIGHT	PLAYER 1	
FIRE 1	PLAYER 2		22	FIRE 1	PLAYER 1	
FIRE 2	PLAYER 2		23	FIRE 2	PLAYER 1	
			24			
			25			
			26			
GND			27	GND		
GND			28	GND		

NOTE: Presionen el pulsador, ubicado en la placa, al mismo
tiempo que inicie la máquina. (Interruptor de RED)

To go to the test mode please push the button, found in
the PCB, at the same time you start up the video machine.
(AC main switch)

INPUTS TEST

```
+----------------------------------------------------------------+
|                        JOYSTICK TEST                           |
|----------------------------------------------------------------|
|        JOYSTICK 1                         JOYSTICK 2           |
|                                                                |
|           UP                                 UP               |
|           DOWN                               DOWN             |
|           LEFT                               LEFT             |
|           RIGHT                              RIGHT            |
|           FIRE 1                             FIRE 1           |
|           FIRE 2                             FIRE 2           |
|           PLAYER 1                           PLAYER 2         |
|                                                                |
|           COIN 1                             COIN 2          |
|                                                                |
|                         ----HELP----                          |
|             PLAYER 1 AND PLAYER 2 NEXT TEST                   |
|                                                                |
+----------------------------------------------------------------+
```
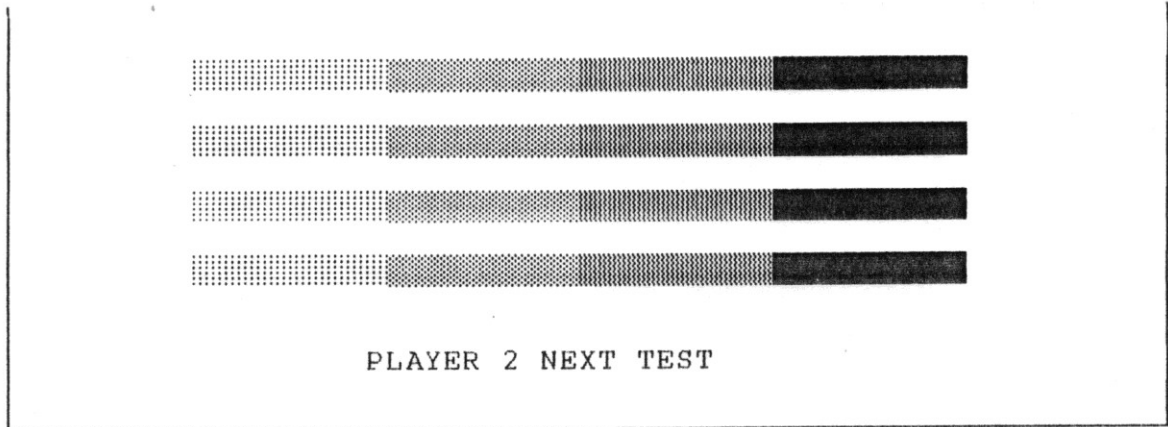
SCREEN TEST

```
+----------------------------------------------------------------+
|                          -RED-                                 |
|                                                                |
|              -PLAYER 1   NEXT COLOR-                           |
|              -PLAYER 2   NEXT TEST-                            |
|                                                                |
+----------------------------------------------------------------+
```

** RED, GREEN, BLUE

COLOR TEST

```
+----------------------------------------------------------------+
|                                                                |
|                          RED                                   |
|                                                                |
|              PLAYER 1   NEXT COLOR                            |
|              PLAYER 2   NEXT TEST                             |
|                                                                |
+----------------------------------------------------------------+
```

** RED, GREEN, BLUE

PALETTE TEST

PLAYER 2 NEXT TEST

SOUND TEST

MUSIC AND SOUND TEST

MUSIC   00
SOUND   00

————————HELP————————

FIRE PLAYER 1   PLAY MUSIC
FIRE PLAYER 2   PLAY SOUND
PLAYER 2   NEXT TEST

** MUSIC   0..4
** SOUND   0..25

SWITCH CONFIGURATION

```
┌─────────────────────────────────────────────────────────────┐
│                      CONFIGURATION                            │
├─────────────────────────────────────────────────────────────┤
│     COIN 1 MODE              2 COIN 1 CREDIT (default)         │
│     COIN 2 MODE              1 COIN 2 CREDIT (default)         │
│     DIFFICULTY               NORMAL                           │
│     MUSIC                    YES                              │
│     DEMO MUSIC               NO                               │
│     FACTORY DEFAULTS                                          │
│───────────────────────────HELP───────────────────────────────│
│     PLAYER 1    CHANGE                                         │
│     DOWN        NEXT OPTION                                    │
│     UP          PREVIOUS OPTION                               │
│     PLAYER 2    NEXT TEST                                      │
└─────────────────────────────────────────────────────────────┘
```

** DIFFICULTY (EASY,NORMAL(default),HARD)

** COIN 1 MODE   1 COIN 1 CREDIT , 1 COIN 2 CREDITS
                  1 COIN 3 CREDITS, 1 COIN 4 CREDITS
                  1 COIN 6 CREDITS, 2 COIN 1 CREDIT
                  3 COINS 1 CREDIT, 4 COINS 1 CREDIT

** COIN 2 MODE   1 COIN 1 CREDIT , 1 COIN 2 CREDITS
                  1 COIN 3 CREDITS, 1 COIN 4 CREDITS
                  1 COIN 6 CREDITS, 2 COIN 1 CREDIT
                  3 COINS 1 CREDIT, 4 COINS 1 CREDIT

** MUSIC (ON(default), OFF)

** DEMO MUSIC (ON, OFF(default))