

# Bombardier

## 4. DIAGNOSTIC TEST

### (1) Test Items

The following tests are made:

① RAM Test

56 PIN CONNECTOR

② ROM Test

③ I/O PORT Test

Conforming to JAMMA standard (3.96 mm pitch)

④ DIP Switch Test

SOLDER SIDE		PARTS SIDE	
GND	A	1	GND
GND CHARACTER Test	B	2	GND
+5V	C	3	+5V
+5V	D	4	+5V
CROSS MATCH Test	E	5	
+12V	F	6	+12V
	H	7	
COUNT. B as the number	J	8	COUNT. A
GND Power Switch is av	K	9	GND
SP-	L	10	SP+
GND	M	11	
GREEN	N	12	RED
SYNC procedures	P	13	BLUE
SERVICE (START)	R	14	GND
	s	15	TEST
COIN. B (2P COIN)	t	16	COIN. A (1P COIN)
2P. START	u	17	1P. START
2P. UP	v	18	1P. DOWN
2P. DOWN	w	19	1P. DOWN
2P. LEFT	x	20	1P. LEFT
2P. RIGHT	y	21	1P. RIGHT
2P. BOMB	z	22	1P. BOMB
2P. REMOTE CONTROL BOMB	a	23	1P. REMOTE CONTROL BOMB
	b	24	
	c	25	
	d	26	
GND	e	27	GND
GND	f	28	GND

### CN3

1	GND
2	3P. RIGHT
3	3P. LEFT
4	3P. DOWN
5	3P. UP
6	3P. START
7	3P. COIN *
8	3P. REMOTE CONTROL BOMB
9	3P. SETS BOMBS

### CN4

1	GND
2	4P. RIGHT
3	4P. LEFT
4	4P. DOWN
5	4P. UP
6	4P. START
7	4P. COIN *
8	4P. REMOTE CONTROL BOMB
9	4P. SETS BOMBS

\* USED ONLY IN 4P UPRIGHT A AND UNUSED IN 4P UPRIGHT B CABINETS.

DIP SW 1

		1	2	3	4	5	6	7	8
THE NUMBER OF EXTRA BOMBERMEN	3	OFF	OFF						
	2	ON	OFF						
	4	OFF	ON						
	5	ON	ON						
DIFFICULTY	NORMAL			OFF	OFF				
	EASY			ON	OFF				
	HARD			OFF	ON				
	VERY EASY			ON	ON				
CONTINUE	YES					OFF			
	NO					ON			
SOUND IN ATTRACTIVE MODE	NO							OFF	
	YES							ON	
DIAGNOSTIC TEST	NO								OFF
	YES								ON

DIP SW 2

		1	2	3	4	5	6	7	8	
FLIP PICTURE	NO	OFF								
	YES	ON								
CABINET TYPE (See next page)	4P UPRIGHT A		OFF	OFF						
	4P UPRIGHT B		OFF	ON						
	2P UPRIGHT		ON	OFF						
	2P TABLE TYPE		ON	ON						
COIN MODE	1 COIN 1 PLAY				OFF	OFF	OFF	OFF	OFF	
	2 COINS 1 "				OFF	ON	OFF	OFF	OFF	
	3 " 1 "				OFF	OFF	ON	OFF	OFF	
	4 " 1 "				OFF	ON	ON	OFF	OFF	
	5 " 1 "				OFF	OFF	OFF	ON	OFF	
	6 " 1 "				OFF	ON	OFF	ON	OFF	
	1 COIN 2 PLAYS				OFF	OFF	ON	ON	OFF	
	1 " 3 "				OFF	ON	ON	ON	OFF	
	1 " 4 "				OFF	OFF	OFF	OFF	ON	
	1 " 5 "				OFF	ON	OFF	OFF	ON	
	1 " 6 "				OFF	OFF	ON	OFF	ON	
	2 COINS 3 "				OFF	ON	ON	OFF	ON	
	3 " 2 "				OFF	OFF	OFF	ON	ON	
	4 " 3 "				OFF	ON	OFF	ON	ON	
	1-COIN CONTINUE				OFF	OFF	ON	ON	ON	
	FREE PLAY				OFF	ON	ON	ON	ON	
	MODE 2	1 COIN 1 PLAY				ON	OFF	OFF		
		2 COINS 1 "				ON	ON	OFF		
		3 " 1 "				ON	OFF	ON		
		5 " 1 "				ON	ON	ON		
1 COIN 2 PLAYS					ON			OFF	OFF	
1 " 3 "					ON			ON	OFF	
1 " 5 "					ON			OFF	ON	
1 " 6 "					ON			ON	ON	

B O U B E R M A N

<u>SOLDER SIDE</u>		<u>PARTS SIDE</u>										
				DIP SW 1	1	2	3	4	5	6	7	8
				NUMBER OF PLAYER								
				3	OFF	OFF						
				2	ON	OFF						
				4	OFF	ON						
				5	ON	ON						
				DIFFICULTY								
				NORMAL			OFF	OFF				
				EASY			ON	OFF				
				HARD			OFF	ON				
				VERY EASY			ON	ON				
				CONTINUE MODE						OFF		
				NO DEMO SOUND							ON	
				DEMO SOUND							OFF	
				TEST MODE								ON
				NORMAL MODE								OFF
				DIP SW 2	1	2	3	4	5	6	7	8
				SCREEN REVERSE	ON							
				NORMAL	OFF							
				COIN MODE 1								
				1coin 1play				OFF	OFF	OFF	OFF	OFF
				2coin 1play				OFF	ON	OFF	OFF	OFF
				3coin 1play				OFF	OFF	ON	OFF	OFF
				4coin 1play				OFF	ON	ON	OFF	OFF
				5coin 1play				OFF	OFF	OFF	ON	OFF
				6coin 1play				OFF	ON	OFF	ON	OFF
				1coin 2play				OFF	OFF	ON	ON	OFF
				1coin 3play				OFF	ON	ON	ON	OFF
				1coin 4play				OFF	OFF	OFF	OFF	ON
				1coin 5play				OFF	ON	OFF	OFF	ON
				1coin 6play				OFF	OFF	ON	OFF	ON
				2coin 3play				OFF	ON	ON	OFF	ON
				3coin 2play				OFF	OFF	OFF	ON	ON
				4coin 3play				OFF	ON	OFF	ON	ON
				FREE PLAY				OFF	ON	ON	ON	ON
				COIN MODE 2 (SELECTOR A)								
				1coin 1play				ON	OFF	OFF		
				2coin 1play				ON	ON	OFF		
				3coin 1play				ON	ON	OFF		
				5coin 1play				ON	ON	ON		
				1coin 1play (SELECTOR B)				ON			OFF	OFF
				1coin 3play				ON			ON	OFF