

60 in 1

USER'S MANUAL

I - PCB DIP Switch Settings:

DIP SW 3		1	2	3	4
Screen Orientation	Normal				
	Flip Screen	V			
Display Mode (CRT)	CGA-15.75Khz				
	VGA-31.5Khz		V		
High Score Saver	Disabled				
	Enabled			V	
System Mode	Normal Mode				
	Test Mode				V

II - System Setup

Keep **TEST SW** or **SERVICE SW** pressed and power on to enter system setup mode or system test mode.

The first page is **SCREEN TEST**. You may tune your screen size at this page or press **TEST SW** to enter next page.

If high score saver is supported and enabled, the second page is **Clear High Score**. You may clear all saved high scores by pressing both **START** and **S1** buttons. Press **TEST SW** to enter next page or press **SERVICE SW** to return last page.

The next page is **System DIPSW Setup**. Use joystick to move cursor or S1 buttons to switch ON/OFF. The system DIPSW is shown below:

* System DIPSW Setup for all Amusement PCBs

DIPSW-1		1	2	3	4	5	6	7	8
Coin 1	1 coin 1 credit								
	1 coin 2 credit	V							
	1 coin 3 credit		V						
	1 coin 4 credit	V	V						
	2 coin 1 credit			V					
	2 coin 2 credit	V		V					
	2 coin 3 credit		V	V					
	2 coin 4 credit	V	V	V					
	3 coin 1 credit				V				
	3 coin 2 credit	V			V				
	3 coin 3 credit		V		V				
	3 coin 4 credit	V	V		V				
	4 coin 1 credit			V	V				
	4 coin 2 credit	V		V	V				
	4 coin 3 credit		V	V	V				
	4 coin 4 credit	V	V	V	V				
Coin 2	1 coin 1 credit								
	1 coin 2 credit					V			
	1 coin 3 credit						V		
	1 coin 4 credit					V	V		
	2 coin 1 credit							V	
	2 coin 2 credit					V		V	
	2 coin 3 credit						V	V	
	2 coin 4 credit					V	V	V	
	3 coin 1 credit								V
	3 coin 2 credit					V			V
	3 coin 3 credit						V		V
	3 coin 4 credit					V	V		V
	4 coin 1 credit							V	V
	4 coin 2 credit						V	V	V
	4 coin 3 credit							V	V
	4 coin 4 credit						V	V	V

DIPSW-2		1	2	3	4	5	6	7	8
Demo Music	Yes								
	No	V							
Game Demo Sound	No								
	Yes		V						
Free Play	No								
	Yes			V					
Cabinet	Upright/1 Joystick								
	Cocktail				V				
	Upright/2 Joysticks					V			
	Cocktail				V	V			
TrackBall Orientation	Normal								
	Exchange X/Y						V		
TrackBall Signals	Normal								
	Exchange DIR/CLK								V

Each game can be enabled or disabled respectively.

Disabled games would not be shown for playing. Press setup to finish this setup or press **TEST SW** to enter followed pages for DIPSW setup of each game or **SERVICE SW** to return last page.

The last two pages are **Volume Adjust** and **I/O Test**. You may adjust audio volume or diagnose **PCB I/O** status at these two pages.

For system test mode, only **Screen Test** and **I/O Test** pages are included.

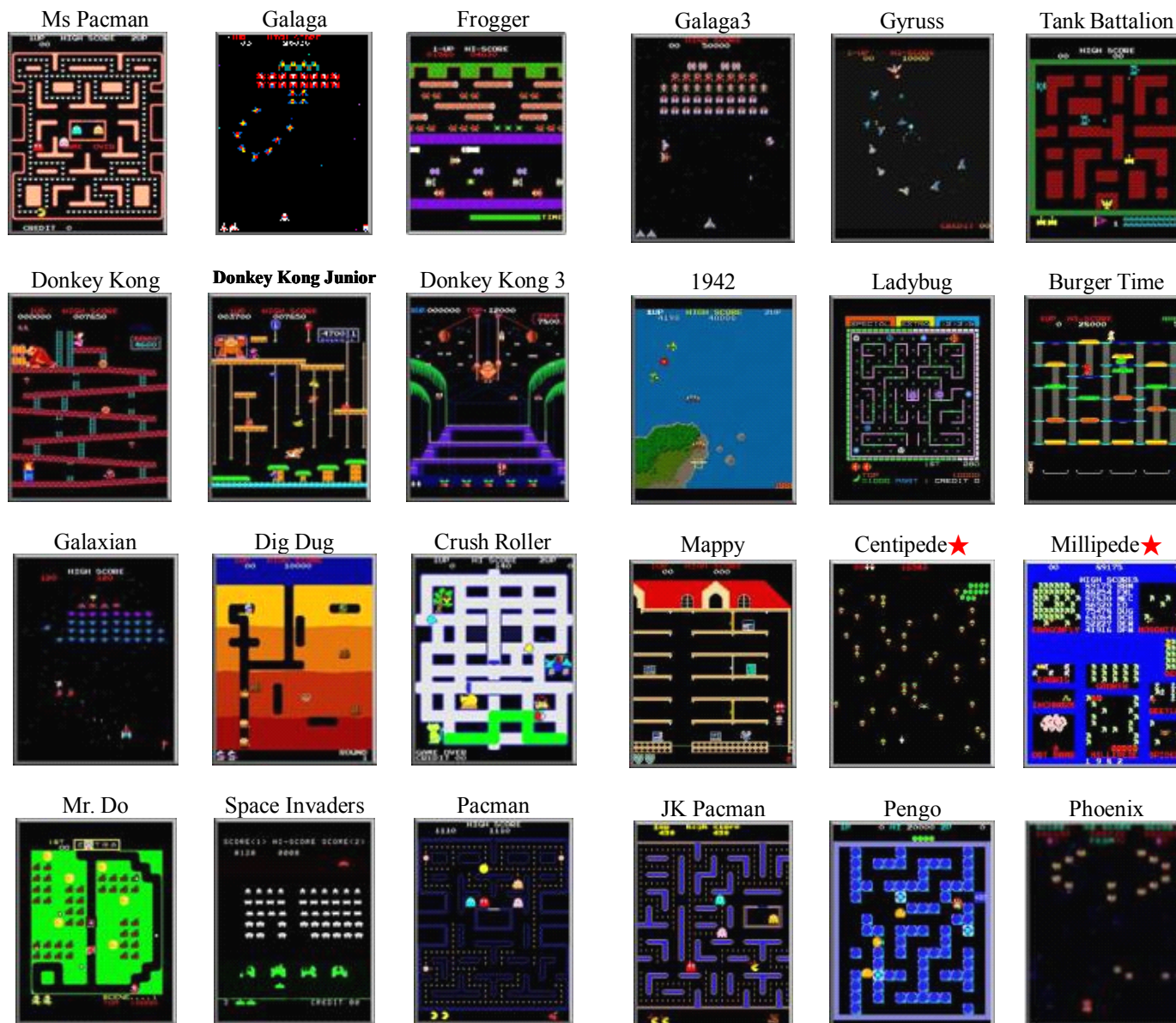
III 、 JAMMA Wire Map

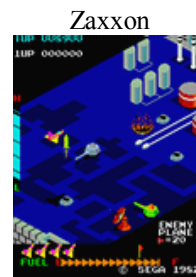
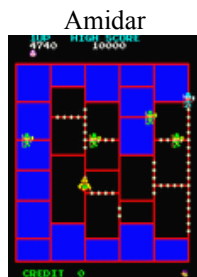
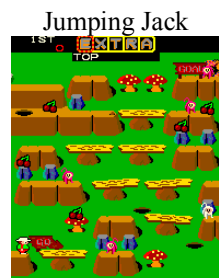
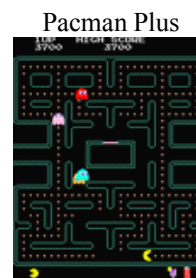
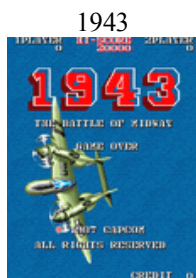
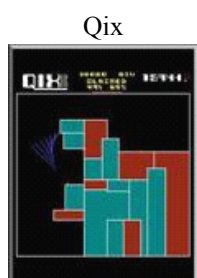
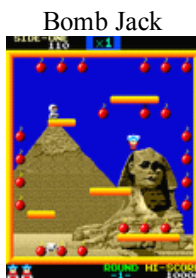
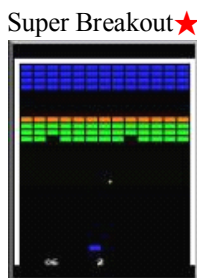
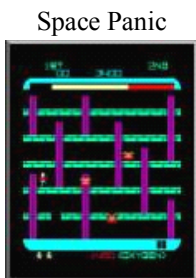
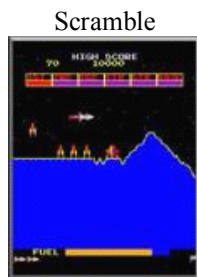
Part Side		Solder Side	
GND	1	GND	
GND	2	GND	
+5V	3	+5V	
+5V	4	+5V	
	5		
+12V	6	+12V	
	7		
1P COIN METER	8	2P COIN METER	
	9		
SPEAKER +	10	SPEAKER -	
	11		
VIDEO R	12	VIDEO G	
VIDEO B	13	VIDEO SYNC	
GND	14	SERVICE	
TEST	15		
1P-COIN	16	2P-COIN	
1P-START	17	2P-START	
1P-UP	18	2P-UP	TRACKBALL 1-Y-DIR
1P-DOWN	19	2P-DOWN	TRACKBALL 1-Y-CLK
1P-LEFT	20	2P-LEFT	TRACKBALL 1-X-DIR
1P-RIGHT	21	2P-RIGHT	TRACKBALL 1-X-CLK
1P-S1	22	2P-S1	
1P-S2	23	2P-S2	
1P-S3	24	2P-S3	
	25		
	26		
GND	27	GND	
GND	28	GND	

PS: 1. The PCB voltage of +5V pin **CAN NOT** exceed +5.5V.

2. A track ball may be used on the Player 2 inputs when cabinet is set to “upright/1 control” mode.

IV 、 Game List





★Trackball game

1. Ms Pacman DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	5								
	3	V							
	2		V						
	1	V	V						
Extra life	None								
	20000			V					
	15000				V				
	10000			V	V				
Difficulty	Easy								
	Hard				V				
Speed	Normal								
	Fast					V			
Ms Pacman Bean	Heart								
	Dot							V	

2. Galaga DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Difficulty	Easy								
	Hardest	V							
	Hard		V						
	Medium	V	V						
Continuous Shooting	No								
	Yes			V					
Extra Life	BONUS 1	30k 80k							
		20k 80k 80k							
	BONUS 2	30k 150k 150k	V						
		30k 120k				V			
	S	20k 60k 60k	V	V					
		20k 60k					V		
	1	20k 70k 70k	V		V				
		30k 100k 100k				V	V		
2	30k 100k				V	V			
	None				V	V	V		
Life	5 (bonus 2)								
	3 (bonus 1)							V	
	4 (bonus 1)								V
	2 (bonus 1)							V	V

DIPSW-2		1	2	3	4	5	6	7	8
Bullet Speed	Normal								
	Fast	V							

3. Frogger DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	7	V							
	5		V						
	3	V	V						

4. Donkey Kong DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	4	V							
	5		V						
	6	V	V						
Extra Life	7000								
	10000			V					
	15000				V				
	20000			V	V				

5. Donkey Kong Junior DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	4	V							
	5		V						
	6	V	V						
Extra Life	7000								
	10000			V					
	15000				V				
	20000			V	V				

6. Donkey Kong 3 DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	4	V							
	5		V						
	6	V	V						
Extra Life	30000								

	40000			V					
	50000				V				
	None			V	V				
Additional Bonus	30000								
	40000					V			
	50000						V		
Difficulty	None				V	V			
	Easy								
	Medium							V	
Difficulty	Hard								V
	Hardest							V	V

7. Galaxian DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Extra Life	7000								
	10000	V							
	12000		V						
	20000	V	V						
life	2								
	3			V					

8. Dig Dug DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Continue	No								
	Yes	V							
Difficulty	Easy								
	Medium		V						
	Hard			V					
	Hardest		V	V					
Extra Life	None								
	20k 70k 70k				V				
	10k 50k 50k					V			
	20k 60k				V	V			
	10k 40k 40k							V	
	10k 40k				V		V		
	20k 60k 60k						V	V	
10k				V	V	V			
life	3								
	5								V
	1								V
	2							V	V

9. Crush Roller DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	4	V							
	5		V						
	6	V	V						
Difficulty	Easy								
	Hard			V					

10. Mr. Do DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Difficulty	Easy								
	Medium	V							
	Hard		V						
	Hardest	V	V						
Special	Easy								
	Hard			V					
Extra	Easy								
	Hard				V				
Life	3								
	4				V				
	5					V			
	2				V	V			

11. Space Invaders DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	4	V							
	5		V						
	6	V	V						
Extra Life	1500								
	1000			V					
Mode	Color								
	B & W			V					

12. Pacman DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	5								
	3	V							
	2		V						
	1	V	V						
Extra Life	None								
	20000			V					
	15000				V				
	10000			V	V				
Difficulty	Easy								
	Hard					V			
Ghost Name	Normal								
	Alternate						V		
Speed	Normal								
	Fast							V	

13. Galaga 3 DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Difficulty	0 (Easiest)								
	1		V						
	2			V					
	3		V	V					
	4				V				
	5		V	V					
	6			V	V				
	7 (Hardest)	V	V	V					
Life	3								
	2				V				
	4					V			
	5				V	V			
Extra Life	100k 300k 600k								
	150k 400k						V		
	150k 400k 900k							V	
	100k 300k 300k						V	V	
	50k 200k 300k								V
	50k 150k 600k						V	V	
	50k 150k 300k							V	V
30k 150k 600k						V	V	V	

14. Gyruss DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	4	V							
	5		V						
	3	V	V						
Extra Life	30k 60k								
	40k 70k			V					
Difficulty	1 (Easiest)								
	2				V				
	3					V			
	4				V	V			
	5 (Average)						V		
	6				V	V			
	7					V	V		
	8 (Hardest)				V	V	V		

15. Tank Battalion DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Extra Life	None								
	20000	V							
	15000		V						
	10000	V	V						
Life	2								
	3			V					

16. 1942 DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Extra Life	20K 80K								
	20K 100K	V							
	30K 80K		V						
	30K 100K	V	V						
Life	3								
	1			V					
	2				V				
	5			V	V				
Difficulty	Normal								
	Easy					V			
	Hard						V		
	Hardest				V	V			

33. Juno First DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	4	√							
	5		√						
	3	√	√						
Difficulty	1 (Easiest)								
	2			√					
	3				√				
	4			√	√				
	5					√			
	6			√		√			
	7				√	√			
	8 (Hardest)			√	√	√			

34. Xevious DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	1	√							
	2		√						
	5	√	√						
Flags Award Bonus Life	Yes								
	No			√					
Difficulty	Normal								
	Easy				√				
	Hard					√			
	Hardest			√	√				
Extra Life	20k60k60k/20k70k70k								
	10k40k40k/10k50k50k					√			
	10k50k50k/20k50k50k						√		
	20k50k50k/20k60k60k					√	√		
	20k70k70k/20k80k80k							√	
	20k80k80k/30k100k100k					√		√	
	20k 60k/20k 80k						√	√	
None					√	√	√		

DIPSW-2		1	2	3	4	5	6	7	8
Machine Set	Set 1								
	Set 2	√							
	Set 3		√						
	Super Xevious	√	√						

35. Mr. Do's Castle DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Difficulty	Easy								
	Medium	√							
	Hard		√						
	Hardest	√	√						
Machine Set	Set 1								
	Set 2			√					
Advance Level On Getting Diamond	Off								
	on				√				
Extra Life	Easy								
	Hard				√				
Life	3								
	4						√		
	5							√	
	2						√	√	

36. Moon Cresta DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Extra Life	30000								
	50000	√							
Machine Set	Set 1								
	Set 2		√						

37. Pinball Action DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
*Control	Mode 1								
	Mode 2	√							
	Mode 3		√						
	Mode 4	√	√						
Life	3								
	4					√			
	5						√		
	2					√	√		

Control	Left Paddle	RightPaddle	Shoot	Shake
Mode 1	Left	Right	S1	S2
Mode 2	S1	S2	Up/Down	Left/Right
Mode 3	Left	Right	Up	S1
Mode 4	Left	Right	Up	Down

DIPSW-2		1	2	3	4	5	6	7	8
Extra Life	70k 200k								
	70k 200k 1000k	√							
	100k		√						
	100k 300k	√	√						
	100k 300k 1000k			√					
	200k	√		√					
Extra	Easy								
	Hard				√				
Difficulty (Flippers)	Easy								
	Medium					√			
	Hard						√		
	Hardest					√	√		
Difficulty (Outlans)	Easy								
	Medium							√	
	Hard								√
	Hardest							√	√

38. Scramble DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	4	√							
	5		√						
	2	√	√						
Machine Set	Set 1								
	Set 2				√				

39. Super Pacman DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Difficulty	0 (Normal)								
	1 (Easiest)	√							
	2		√						
	3	√	√						
	4			√					
	5	√		√					
	6 (Medium)		√	√					
7	√	√	√						

	8			V					
	9	V		V					
	A		V	V					
	B (Hardest)	V	V	V					
	C (Easy Auto)			V	V				
	D (Auto)	V		V	V				
	E (Auto)		V	V	V				
	F (Hard Auto)	V	V	V	V				
Extra Life	*30k 100k 30k 100k								
	*30k 120k 30k 80k					V			
	*40k 120k 30k 120k						V		
	*30k 100k 100k 30k 80k 80k					V	V		
	*40k 120k 120k 30k 100k 100k							V	
	*30k 30k 120k 120k					V		V	
	*40k 30k						V	V	
	None					V	V	V	
Machine Set	Set 1								
	Set 2								V

DIPSW-2		1	2	3	4	5	6	7	8
Life	3								
	1	V							
	2		V						
	*5	V	V						

40. Bomb Jack DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	4	V							
	5		V						
	2	V	V						
Bird Speed	Easy								
	Medium			V					
	Hard				V				
	Hardest			V	V				

Enemies Number & Speed	Easy								
	Medium				V				
	Hard					V			
	Hardest				V	V			
Special Coin	Easy								
	Hard							V	

41. Shao-Lin's Road DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	5	V							
	7		V						
	2	V	V						
Extra Life	30k 70k								
	40k 80k				V				
	40k					V			
	50k				V	V			
Difficulty	Easy								
	Medium					V			
	Hard							V	
	Hardest					V	V		

42. King & Balloon DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Extra Life	10000								
	12000	V							
	15000		V						
	None	V	V						
Life	2								
	3			V					
	Off								
Speech	on				V				

43. 1943 DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Bird Speed	1 (Eaxiest)								
	2	V							
	3		V						
	4	V	V						
	5			V					
	6	V		V					
	7			V	V				
	8	V	V	V					

	9				V				
	10	V			V				
	11		V		V				
	12	V	V		V				
	13				V	V			
	14	V			V	V			
	15			V	V	V			
	16 (Hardest)	V	V	V	V				
* 2 Players Game	2 Credits								
	1 Credit							V	
Allow Continue	Yes								
	No								V

*2 Players Mode is enabled only in Upright and 2-Joystick mode.

44. Van-Van Car DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Extra Life	None								
	20k 100k	V							
	40k 140k		V						
	70k 200k	V	V						
Life	3								
	4			V					
	5				V				
	6			V	V				

45. Pacman Plus DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	5								
	3	V							
	2		V						
	1	V	V						
Extra Life	None								
	20000			V					
	15000				V				
	10000			V	V				
Difficulty	Easy								
	Hard					V			
Ghost Name	Normal							V	
	Alternate								
Speed	Normal								
	Fast								V

46. Dig Dug 2 DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
---------	--	---	---	---	---	---	---	---	---

Life	3								
	5	✓							
Extra Life	30k 80k								
	30k 100k		✓						
	30k 120k			✓					
	30k 150k	✓	✓						
Level Select	Off								
	on				✓				

47. Amidar DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	4	✓							
	5		✓						
	5	✓	✓						
Extra Life	50k 80k								
	30k 70k			✓					

48. Zaxxon DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Extra Life	10000								
	30000	✓							
	20000		✓						
	40000	✓	✓						
Life	3								
	5			✓					
	4				✓				
	3			✓	✓				

49. Pooyan DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	4	✓							
	5		✓						
	5	✓	✓						
Extra Life	50k 80k								
	30k 70k			✓					
Difficulty	1 (Easiest)								
	2				✓				
	3					✓			
	4				✓	✓			
	5 (Average)						✓		
	6				✓	✓			
	7					✓	✓		
	8 (Hardest)				✓	✓	✓		

50. Pleiads DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	4	✓							
	5		✓						
	6	✓	✓						
Extra Life	3k 30k								
	4k 40k			✓					
	5k 50k				✓				
	6k 60k			✓	✓				

51. Gun. Smoke DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Extra Life	30k 100k 100k								
	30k 100k	✓							
	30k 80k 80k		✓						
	30k 100k 150k	✓	✓						
Difficulty	easy								
	normal			✓					
	hard				✓				
	hardest			✓	✓				
Allow Continue	YES								
	NO					✓			
Mode	3 buttons						✓		
	1 button							✓	

52. The End DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Life	3								
	4	✓							
	5		✓						
	5	✓	✓						

53. 1943 Kai DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Difficulty	1 (easiest)								
	2		✓						
	3			✓					
	4		✓	✓					
	5				✓				
	6		✓		✓				
	7			✓	✓				
	8		✓	✓	✓				
	9					✓			
	10		✓		✓				

	11		✓	✓					
	12	✓	✓	✓					
	13			✓	✓				
	14	✓		✓	✓				
	15		✓	✓	✓				
* 2 Players Game	2 Credits								
	1 Credit						✓		
Allow Continue	YES								
	NO							✓	

* 2 Players Mode is enable only in "Upright/2 Control" mode.

54. Congo Bongo DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Extra Life	10k								
	20k	✓							
	30k		✓						
	40k	✓	✓						
Difficulty	Easy								
	Medium			✓					
	Hard				✓				
	Hardest			✓	✓				
Life	3								
	4					✓			
	5						✓		
	3					✓	✓		

55. Jumping Jack DIP SW Setup

DIPSW-1		1	2	3	4	5	6	7	8
Difficulty	Easy								
	Medium	✓							
	Hard		✓						
	Hardest	✓	✓						
Extra Life	Easy								
	Hard			✓					
Life	3								
	4				✓				
	5					✓			
	2				✓	✓			