CGA/VGA JAMMA

CLASSICAL GAME COLLECTION

I. PCB DIP Switch Settings

DIP SW3		1	2	3	4
Screen Orientation	Normal	**OFF**			
	Flip Screen	**ON**			
Display Mode (CRT)	CGA-15.75Khz		**OFF**		
	VGA-31.5Khz		**ON**		
High Score Saver	Disabled			**OFF**	
	Enabled			**ON**	

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

DIP SW1		1	2	3	4	5	6	7	8
Coin 1	1 coin 1 credit	**OFF**	**OFF**	**OFF**	**OFF**				
	1 coin 2 credit	**ON**	**OFF**	**OFF**	**OFF**				
	1 coin 3 credit	**OFF**	**ON**	**OFF**	**OFF**				
	1 coin 4 credit	**ON**	**ON**	**OFF**	**OFF**				
	2 coin 1 credit	**OFF**	**OFF**	**ON**	**OFF**				
	2 coin 2 credit	**ON**	**OFF**	**ON**	**OFF**				
	2 coin 3 credit	**OFF**	**ON**	**ON**	**OFF**				
	2 coin 4 credit	**ON**	**ON**	**ON**	**OFF**				
	3 coin 1 credit	**OFF**	**OFF**	**OFF**	**ON**				
	3 coin 2 credit	**ON**	**OFF**	**OFF**	**ON**				
	3 coin 3 credit	**OFF**	**ON**	**OFF**	**ON**				
	3 coin 4 credit	**ON**	**ON**	**OFF**	**ON**				
	4 coin 1 credit	**OFF**	**OFF**	**ON**	**ON**				
	4 coin 2 credit	**ON**	**OFF**	**ON**	**ON**				
	4 coin 3 credit	**OFF**	**ON**	**ON**	**ON**				
	4 coin 4 credit	**ON**	**ON**	**ON**	**ON**				

Coin 2	1 coin 1 credit					**OFF**	**OFF**	**OFF**	**OFF**
	1 coin 2 credit					**ON**	**OFF**	**OFF**	**OFF**
	1 coin 3 credit					**OFF**	**ON**	**OFF**	**OFF**
	1 coin 4 credit					**ON**	**ON**	**OFF**	**OFF**
	2 coin 1 credit					**OFF**	**OFF**	**ON**	**OFF**
	2 coin 2 credit					**ON**	**OFF**	**ON**	**OFF**
	2 coin 3 credit					**OFF**	**ON**	**ON**	**OFF**
	2 coin 4 credit					**ON**	**ON**	**ON**	**OFF**
	3 coin 1 credit					**OFF**	**OFF**	**OFF**	**ON**
	3 coin 2 credit					**ON**	**OFF**	**OFF**	**ON**
	3 coin 3 credit					**OFF**	**ON**	**OFF**	**ON**
	3 coin 4 credit					**ON**	**ON**	**OFF**	**ON**
	4 coin 1 credit					**OFF**	**OFF**	**ON**	**ON**
	4 coin 2 credit					**ON**	**OFF**	**ON**	**ON**
	4 coin 3 credit					**OFF**	**ON**	**ON**	**ON**
	4 coin 4 credit					**ON**	**ON**	**ON**	**ON**

DIP SW2		1	2	3	4	5	6	7	8
Demo Music	Yes	**OFF**							
	No	**ON**							
Game Demo Sound	No		**OFF**						
	Yes		**ON**						
Demo Music Mode	Mode1			**OFF**					
	Mode2			**ON**					
Free Play	No				**OFF**				
	Yes				**ON**				
Cabinet	Upright/1 Joystick					**OFF**	**OFF**		
	Cocktail					**ON**	**OFF**		
	Upright/2 Joysticks					**OFF**	**ON**		
	Cocktail					**ON**	**ON**		

Each game can be enabled or disabled respectively. Disabled games would not be shown for playing. Press setup to finish this step 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.

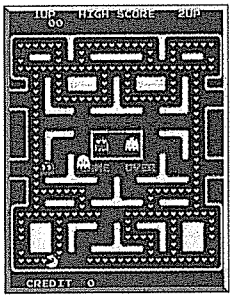
III. JAMMA Wire Map

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

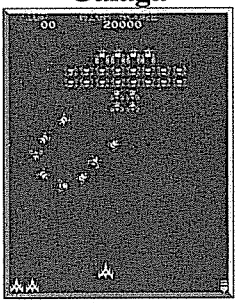
PS: The PCB voltage of +5V pin **CAN NOT** exceed +5.5V .

Game List

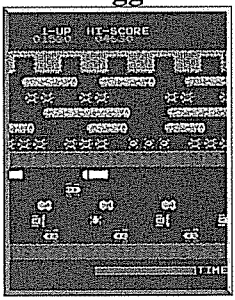
Ms Pacman



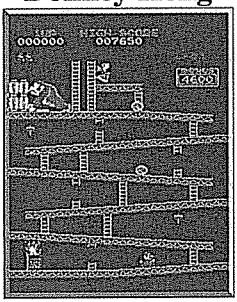
Galaga



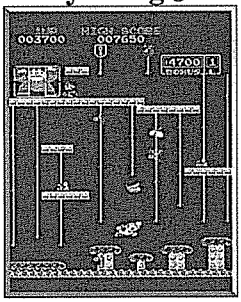
Frogger



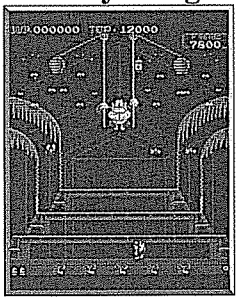
Donkey Kong



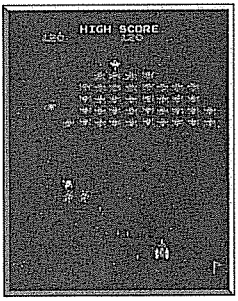
Donkey Kong Junior



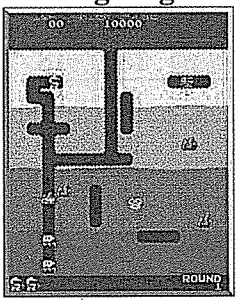
Donkey Kong 3



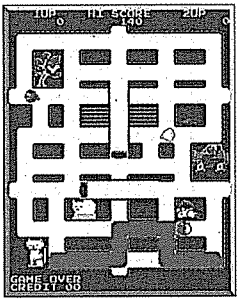
Galaxian



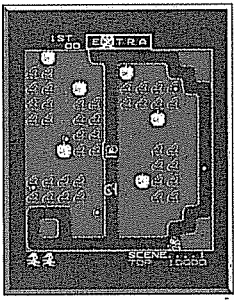
Dig Dug



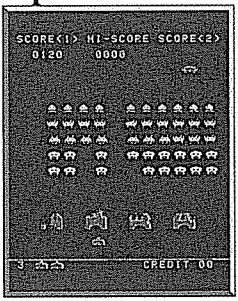
Crush Roller



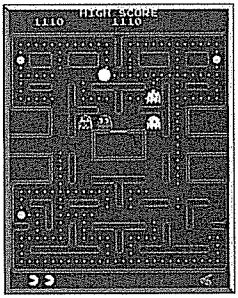
Mr. Do



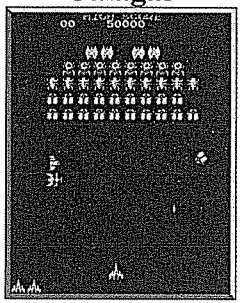
Space Invaders



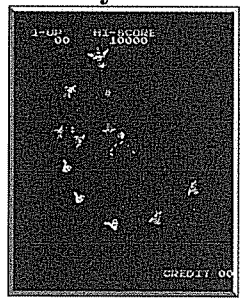
Pacman



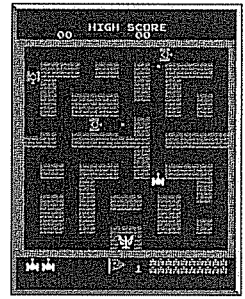
Galaga3



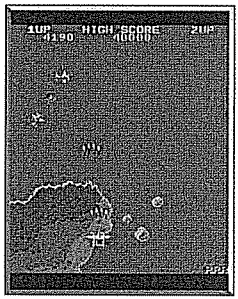
Gyruss



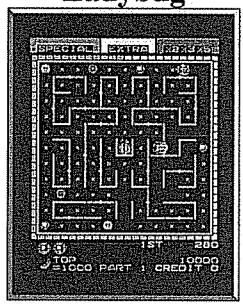
Tank Battalion



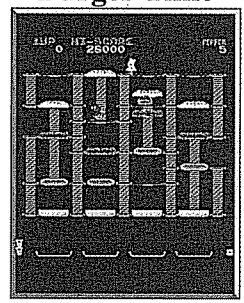
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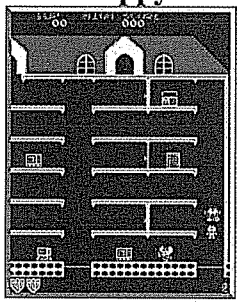
Ladybug



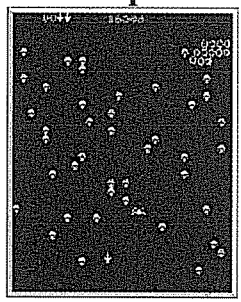
Burger Time



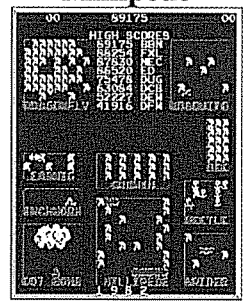
Mappy



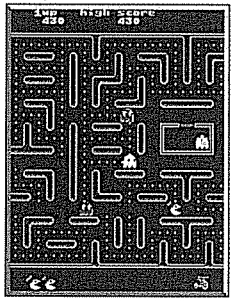
Centipede



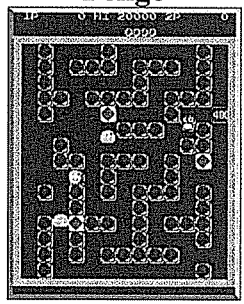
Millipede



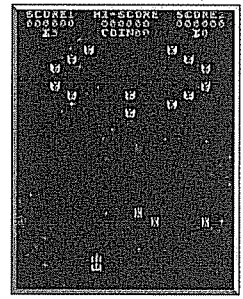
JR Pacman



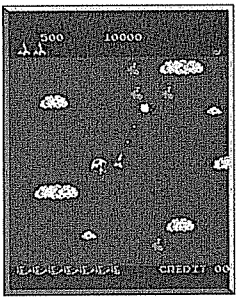
Pengo



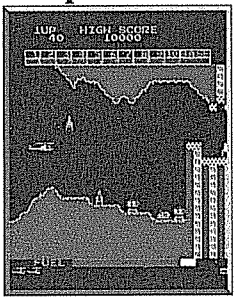
Phoenix



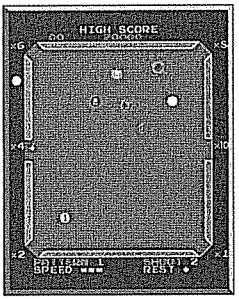
Time Pilot



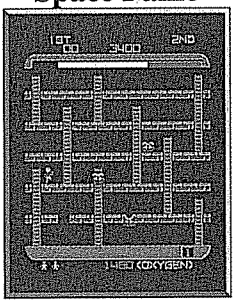
Super Cobra



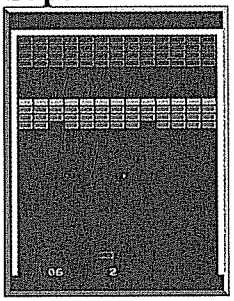
Hustler



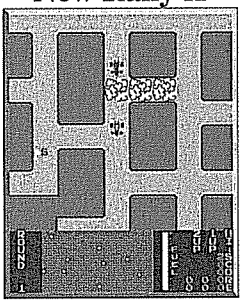
Space Panic



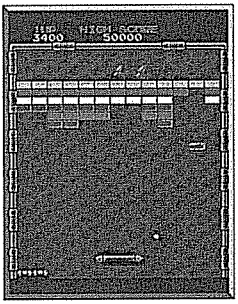
Super Breakout



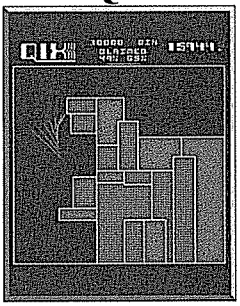
New Rally X



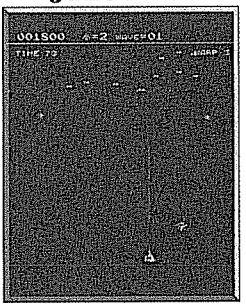
Arkanoid



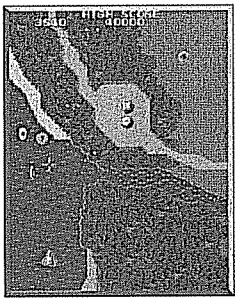
Qix



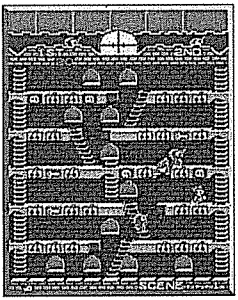
Juno Frist



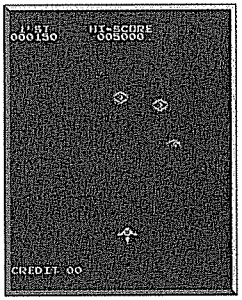
Xevious



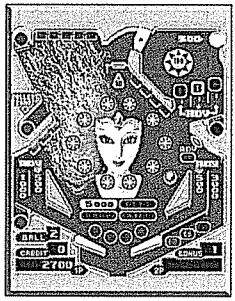
Mr. Do's Castle



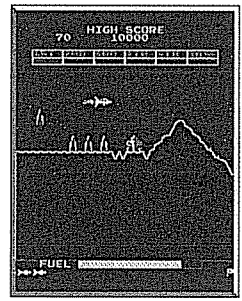
Moon Cresta



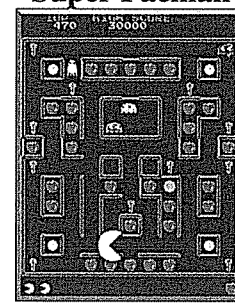
Pinball Action



Scramble



Super Pacman



Ms Pacman DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	5	**OFF**	**OFF**						
	3	**ON**	**OFF**						
	2	**OFF**	**ON**						
	1	**ON**	**ON**						
Extra life	None			**OFF**	**OFF**				
	20000			**ON**	**OFF**				
	15000			**OFF**	**ON**				
	10000			**ON**	**ON**				
Difficulty	Easy					**OFF**			
	Hard					**ON**			
Speed	Normal						**OFF**		
	Fast						**ON**		
Ms Pacman Bean	Heart							**OFF**	
	Dot							**ON**	

Galaga DIPSW Setup

DIP SW1				1	2	3	4	5	6	7	8
Difficulty	Easy			**OFF**	**OFF**						
	Hardest			**ON**	**OFF**						
	Hard			**OFF**	**ON**						
	Medium			**ON**	**ON**						
Continuous Shooting	No					**OFF**					
	Yes					**ON**					
Extra Life	BONUS1	30k 80k	BONUS2 30k				**OFF**	**OFF**	**OFF**		
		20k 80k 80k	30k 150k 150k				**ON**	**OFF**	**OFF**		
		30k 120k 120k	30k 120k				**OFF**	**ON**	**OFF**		
		20k 60k 60k	30k 100k 100k				**ON**	**ON**	**OFF**		
		20k 60k	30k 150k				**OFF**	**OFF**	**ON**		
		20k 70k 70k	30k 120k 120k				**ON**	**OFF**	**ON**		
		30k 100k 100k	30k 100k				**OFF**	**ON**	**ON**		
	(None)						**ON**	**ON**	**ON**		
Life	5 (bonus2)									**OFF**	**OFF**
	3 (bonus1)									**ON**	**OFF**

	4 (bonus1)							OFF	ON
	2 (bonus1)							ON	ON

DIP SW2		1	2	3	4	5	6	7	8
Bullet Speed	Normal	OFF							
	Fast	ON							

Frogger DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	3	OFF	OFF						
	7	ON	OFF						
	5	OFF	ON						
	3	ON	ON						

Donkey Kong DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	3	OFF	OFF						
	4	ON	OFF						
	5	OFF	ON						
	6	ON	ON						
Extra Life	7000			OFF	OFF				
	10000			ON	OFF				
	15000			OFF	ON				
	20000			ON	ON				

Donkey Kong Junior DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	3	OFF	OFF						
	4	ON	OFF						
	5	OFF	ON						
	6	ON	ON						
Extra Life	7000			OFF	OFF				
	10000			ON	OFF				
	15000			OFF	ON				
	20000			ON	ON				

Donkey Kong 3 DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	3	OFF	OFF						
	4	ON	OFF						
	5	OFF	ON						
	6	ON	ON						
Extra Life	30000			OFF	OFF				
	40000			ON	OFF				
	50000			OFF	ON				
	None			ON	ON				

Additional Bonus	30000					OFF	OFF		
	40000					ON	OFF		
	50000					OFF	ON		
	None					ON	ON		
Difficulty	Easy							OFF	OFF
	Medium							ON	OFF
	Hard							OFF	ON
	Hardest							ON	ON

Galaxian DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Extra Life	7000	OFF	OFF						
	10000	ON	OFF						
	12000	OFF	ON						
	20000	ON	ON						
Life	2			OFF					
	3			ON					

Dig Dug DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Continue	No	OFF							
	Yes	ON							
Difficulty	Easy		OFF	OFF					
	Medium		ON	OFF					
	Hard		OFF	ON					
	Hardest		ON	ON					
Extra Life	None				OFF	OFF	OFF		
	20k 70k 70k				ON	OFF	OFF		
	10k 50k 50k				OFF	ON	OFF		
	20k 60k				ON	ON	OFF		
	10k 40k 40k				OFF	OFF	ON		
	10k 40k				ON	OFF	ON		
	20k 60k 60k				OFF	ON	ON		
	10k				ON	ON	ON		
Life	3							OFF	OFF
	5							ON	OFF
	1							OFF	ON
	2							ON	ON

Crush Roller DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	3	OFF	OFF						
	4	ON	OFF						
	5	OFF	ON						
	6	ON	ON						
Difficulty	Easy			OFF					
	Hard			ON					

Mr. Do DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Difficulty	Easy	**OFF**	**OFF**						
	Medium	**ON**	**OFF**						
	Hard	**OFF**	**ON**						
	Hardest	**ON**	**ON**						
Special	Easy			**OFF**					
	Hard			**ON**					
Extra	Easy				**OFF**				
	Hard				**ON**				
Life	3					**OFF**	**OFF**		
	4					**ON**	**OFF**		
	5					**OFF**	**ON**		
	2					**ON**	**ON**		

Space Invaders DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	3	**OFF**	**OFF**						
	4	**ON**	**OFF**						
	5	**OFF**	**ON**						
	6	**ON**	**ON**						
Extra Life	1500			**OFF**					
	1000			**ON**					
Mode	Color				**OFF**				
	B&W				**ON**				

Pacman DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	5	**OFF**	**OFF**						
	3	**ON**	**OFF**						
	2	**OFF**	**ON**						
	1	**ON**	**ON**						
Extra Life	None			**OFF**	**OFF**				
	20000			**ON**	**OFF**				
	15000			**OFF**	**ON**				
	10000			**ON**	**ON**				
Difficulty	Easy					**OFF**			
	Hard					**ON**			
Ghost Name	Normal						**OFF**		
	Alternate						**ON**		
Speed	Normal							**OFF**	
	Fast							**ON**	

Galaga3 DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Difficulty	0 (Easiest)	OFF	OFF	OFF					
	1	ON	OFF	OFF					
	2	OFF	ON	OFF					
	3	ON	ON	OFF					
	4	OFF	OFF	ON					
	5	ON	OFF	ON					
	6	OFF	ON	ON					
	7 (Hardest)	ON	ON	ON					
Life	3				OFF	OFF			
	2				ON	OFF			
	4				OFF	ON			
	5				ON	ON			
Extra Life	100k 300k 600k						OFF	OFF	OFF
	150k 400k						ON	OFF	OFF
	150k 400k 900k						OFF	ON	OFF
	100k 300k 300k						ON	ON	OFF
	50k 200k 300k						OFF	OFF	ON
	50k 150k 600k						ON	OFF	ON
	50k 150k 300k						OFF	ON	ON
	30k 150k 600k						ON	ON	ON

Gyruss DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	3	OFF	OFF						
	4	ON	OFF						
	5	OFF	ON						
	3	ON	ON						
Extra Life	30k 60k			OFF					
	40k 70k			ON					
Difficulty	1(Easiest)				OFF	OFF	OFF		
	2				ON	OFF	OFF		
	3				OFF	ON	OFF		
	4				ON	ON	OFF		
	5(Average)				OFF	OFF	ON		
	6				ON	OFF	ON		
	7				OFF	ON	ON		
	8(Hardest)				ON	ON	ON		

Tank Battalion DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Extra Life	None	OFF	OFF						
	20000	ON	OFF						
	15000	OFF	ON						
	10000	ON	ON						

Life	2			OFF					
	3			ON					

1942 DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Extra Life	20k 80k	OFF	OFF						
	20k 100k	ON	OFF						
	30k 80k	OFF	ON						
	30k 100k	ON	ON						
Life	3			OFF	OFF				
	1			ON	OFF				
	2			OFF	ON				
	5			ON	ON				
Difficulty	Normal					OFF	OFF		
	Easy					ON	OFF		
	Hard					OFF	ON		
	Hardest					ON	ON		

Ladybug DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Difficulty	Easy	OFF	OFF						
	Medium	ON	OFF						
	Hard	OFF	ON						
	Hardest	ON	ON						
High Score Names	10 Letters			OFF					
	3 Letters			ON					
Life	3				OFF				
	5				ON				

Burger Time DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	3	OFF							
	5	ON							
Extra Life	10000		OFF	OFF					
	15000		ON	OFF					
	20000		OFF	ON					
	30000		ON	ON					
Enemies	4				OFF				
	6				ON				
End of Lever Pepper	No					OFF			
	Yes					ON			

Mappy DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	3	OFF	OFF						
	*5	ON	OFF						
	1	OFF	ON						
	2	ON	ON						

Extra Life	*30k 80k 20k 70k			OFF	OFF	OFF			
	*30k 100k 20k 60k			ON	OFF	OFF			
	*30k 120k 20k 80k			OFF	ON	OFF			
	*30k 30k 100k			ON	ON	OFF			
	*40k 20k			OFF	OFF	ON			
	*30k 100k 100k 20k 70k 70k			ON	OFF	ON			
	*40k 120k 120k 20k 80k 80k			OFF	ON	ON			
	None			ON	ON	ON			
Rank	A						OFF	OFF	OFF
	B						ON	OFF	OFF
	C						OFF	ON	OFF
	D						ON	ON	OFF
	E						OFF	OFF	ON
	F						ON	OFF	ON
	G						OFF	ON	ON
	H						ON	ON	ON

Centipede DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Language	English	OFF	OFF						
	German	ON	OFF						
	French	OFF	ON						
	Spanish	ON	ON						
Life	2			OFF	OFF				
	3			ON	OFF				
	4			OFF	ON				
	5			ON	ON				
Extra Life	10000					OFF	OFF		
	12000					ON	OFF		
	15000					OFF	ON		
	20000					ON	ON		
Difficulty	Easy							OFF	
	Hard							ON	
Move Speed	Normal								OFF
	Fast								ON

Millipede DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Millipede Head	Easy	OFF							
	Hard	ON							
Beetle	Easy		OFF						
	Hard		ON						
Life	2			OFF	OFF				
	3			ON	OFF				
	4			OFF	ON				
	5			ON	ON				

Extra Life	12000					OFF	OFF		
	15000					ON	OFF		
	20000					OFF	ON		
	None					ON	ON		
Spider	Easy							OFF	
	Hard							ON	
Starting Score Select	No								OFF
	Yes								ON

DIP SW2		1	2	3	4	5	6	7	8
Language	English	OFF	OFF						
	German	ON	OFF						
	French	OFF	ON						
	Spanish	ON	ON						
Bonus	0			OFF	OFF				
	0 1x			ON	OFF				
	0 1x 2x			OFF	ON				
	0 1x 2x 3x			ON	ON				

JR Pacman DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	1	OFF	OFF						
	2	ON	OFF						
	3	OFF	ON						
	5	ON	ON						
Extra Life	10000			OFF	OFF				
	15000			ON	OFF				
	20000			OFF	ON				
	30000			ON	ON				
Difficulty	Normal					OFF			
	Hard					ON			
Speed	Normal						OFF		
	Fast						ON		

Pengo DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Extra Life	50000	OFF							
	30000	ON							
Life	2		OFF	OFF					
	3		ON	OFF					
	4		OFF	ON					
	5		ON	ON					
Difficulty	Easy				OFF	OFF			
	Medium				ON	OFF			
	Hard				OFF	ON			
	Hardest				ON	ON			

Machine Set	Set1						OFF		
	Set2						ON		

Phoenix DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	3	OFF	OFF						
	4	ON	OFF						
	5	OFF	ON						
	6	ON	ON						
Extra Life	3K 30K			OFF	OFF				
	4K 40K			ON	OFF				
	5K 50K			OFF	ON				
	6K 60K			ON	ON				

Time Pilot DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	3	OFF	OFF						
	4	ON	OFF						
	5	OFF	ON						
	5	ON	ON						
Extra Life	10k 50k			OFF					
	20k 60k			ON					
Difficulty	1(Easiest)				OFF	OFF	OFF		
	2				ON	OFF	OFF		
	3				OFF	ON	OFF		
	4				ON	ON	OFF		
	5(Average)				OFF	OFF	ON		
	6				ON	OFF	ON		
	7				OFF	ON	ON		
	8(Hardest)				ON	ON	ON		

Super Cobra DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Continue (Single Game Only)	Yes	OFF							
	No	ON							
Life	4		OFF						
	3		ON						

Hustler DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	2	OFF							
	1	ON							

Space Panic DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Extra Life	3000	OFF							
	5000	ON							

Life	3		**OFF**						
	4		**ON**						

Super Breakout DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Mode	Color	**OFF**							
	B&W	**ON**							
Life	3		**OFF**						
	5		**ON**						
Move Speed	Medium			**OFF**	**OFF**				
	Slow			**ON**	**OFF**				
	Fast			**OFF**	**ON**				
	Very Fast			**ON**	**ON**				
Time *	None					**OFF**	**OFF**	**OFF**	
	200P 200C 200D					**ON**	**OFF**	**OFF**	
	400P 300C 400D					**OFF**	**ON**	**OFF**	
	600P 400C 600D					**ON**	**ON**	**OFF**	
	900P 700C 800D					**OFF**	**OFF**	**ON**	
	1200P 900C 1000D					**ON**	**OFF**	**ON**	
	1600P 1100C 1200D					**OFF**	**ON**	**ON**	
	2000P 1400C 1500D					**ON**	**ON**	**ON**	

* Note : P: Progressive C: Cavity D: Double
S1 Button : Select Progressive
S2 Button : Select Cavity
S3 Button : Select Double

New Rally X DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Extra Life	3Cars None 4Cars None	**OFF**	**OFF**						
	3Cars 20k/80k 4Cars 20k	**ON**	**OFF**						
	3Cars 20k/100k 4Cars 40k	**OFF**	**ON**						
	3Cars 20k/120k 4Cars 60k	**ON**	**ON**						
Life	3			**OFF**					
	4			**ON**					

Arkanoid DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Continue	No	**OFF**							
	Yes	**ON**							
Difficulty	Easy		**OFF**						
	Hard		**ON**						
Extra Life	20k 60k 60k			**OFF**					
	20k			**ON**					
Life	3				**OFF**				
	5				**ON**				

Move Speed	Normal					OFF	OFF		
	Slow					ON	OFF		
	Fast					OFF	ON		
	Very Fast					ON	ON		

Qix DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	5	OFF	OFF						
	4	ON	OFF						
	3	OFF	ON						
	2	ON	ON						
Threshold	60%			OFF	OFF	OFF			
	65%			ON	OFF	OFF			
	70%			OFF	ON	OFF			
	75%			ON	ON	OFF			
	80%			OFF	OFF	ON			
	85%			ON	OFF	ON			
	90%			OFF	ON	ON			
	95%			ON	ON	ON			
Time	60						OFF	OFF	OFF
	55						ON	OFF	OFF
	50						OFF	ON	OFF
	45						ON	ON	OFF
	40						OFF	OFF	ON
	35						ON	OFF	ON
	30						OFF	ON	ON
	25						ON	ON	ON

Juno First DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	3	OFF	OFF						
	4	ON	OFF						
	5	OFF	ON						
	3	ON	ON						
Difficulty	1(Easiest)			OFF	OFF	OFF			
	2			ON	OFF	OFF			
	3			OFF	ON	OFF			
	4			ON	ON	OFF			
	5			OFF	OFF	ON			
	6			ON	OFF	ON			
	7			OFF	ON	ON			
	8(Hardest)			ON	ON	ON			

Xevious DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	3	**OFF**	**OFF**						
	1	**ON**	**OFF**						
	2	**OFF**	**ON**						
	5	**ON**	**ON**						
Flags Award Bonus Life	Yes			**OFF**					
	No			**ON**					
Difficulty	Normal				**OFF**	**OFF**			
	Easy				**ON**	**OFF**			
	Hard				**OFF**	**ON**			
	Hardest				**ON**	**ON**			
Extra Life	20k60k60k / 20k70k70k						**OFF**	**OFF**	**OFF**
	10k40k40k / 10k50k50k						**ON**	**OFF**	**OFF**
	10k50k50k / 20k50k50k						**OFF**	**ON**	**OFF**
	20k50k50k / 20k60k60k						**ON**	**ON**	**OFF**
	20k70k70k / 20k80k80k						**OFF**	**OFF**	**ON**
	20k80k80k/30k100k100k						**ON**	**OFF**	**ON**
	20k 60k / 20k 80k						**OFF**	**ON**	**ON**
	None						**ON**	**ON**	**ON**

DIP SW2		1	2	3	4	5	6	7	8
Machine Set	Set 1	**OFF**	**OFF**						
	Set 2	**ON**	**OFF**						
	Set 3	**OFF**	**ON**						
	Super Xevious	**ON**	**ON**						

Mr. Do's Castle DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Difficulty	Easy	**OFF**	**OFF**						
	Medium	**ON**	**OFF**						
	Hard	**OFF**	**ON**						
	Hardest	**ON**	**ON**						
Machine Set	Set 1			**OFF**					
	Set 2			**ON**					
Advance Level On Getting Diamond	Off				**OFF**				
	On				**ON**				
Extra Life	Easy					**OFF**			
	Hard					**ON**			
Life	3						**OFF**	**OFF**	
	4						**ON**	**OFF**	
	5						**OFF**	**ON**	
	2						**ON**	**ON**	

Moon Cresta DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Extra Life	30000	**OFF**							
	50000	**ON**							
Machine Set	Set 1		**OFF**						
	Set 2		**ON**						

Pinball Action DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
* Control	Mode 1	**OFF**	**OFF**						
	Mode 2	**ON**	**OFF**						
	Mode 3	**OFF**	**ON**						
	Mode 4	**ON**	**ON**						
Life	3					**OFF**	**OFF**		
	4					**ON**	**OFF**		
	5					**OFF**	**ON**		
	2					**ON**	**ON**		

Control	Left Paddle	Right Paddle	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

DIP SW2		1	2	3	4	5	6	7	8
Extra Life	70k 200k	**OFF**	**OFF**	**OFF**					
	70k 200k 1000k	**ON**	**OFF**	**OFF**					
	100k	**OFF**	**ON**	**OFF**					
	100k 300k	**ON**	**ON**	**OFF**					
	100k 300k 1000k	**OFF**	**OFF**	**ON**					
	200k	**ON**	**OFF**	**ON**					
	200k 1000k	**OFF**	**ON**	**ON**					
	None	**ON**	**ON**	**ON**					
Extra	Easy				**OFF**				
	Hard				**ON**				
Difficulty (Flippers)	Easy					**OFF**	**OFF**		
	Medium					**ON**	**OFF**		
	Hard					**OFF**	**ON**		
	Hardest					**ON**	**ON**		
Difficulty (Outlans)	Easy							**OFF**	**OFF**
	Medium							**ON**	**OFF**
	Hard							**OFF**	**ON**
	Hardest							**ON**	**ON**

Scramble DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Life	3	OFF	OFF						
	4	ON	OFF						
	5	OFF	ON						
	2	ON	ON						
Machine Set	Set 1			OFF					
	Set 2			ON					

Super Pacman DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
Difficulty	0 (Normal)	OFF	OFF	OFF	OFF				
	1 (Easiest)	ON	OFF	OFF	OFF				
	2	OFF	ON	OFF	OFF				
	3	ON	ON	OFF	OFF				
	4	OFF	OFF	ON	OFF				
	5	ON	OFF	ON	OFF				
	6 (Medium)	OFF	ON	ON	OFF				
	7	ON	ON	ON	OFF				
	8	OFF	OFF	OFF	ON				
	9	ON	OFF	OFF	ON				
	A	OFF	ON	OFF	ON				
	B (Hardest)	ON	ON	OFF	ON				
	C (Easy Auto)	OFF	OFF	ON	ON				
	D (Auto)	ON	OFF	ON	ON				
	E (Auto)	OFF	ON	ON	ON				
	F (Hard Auto)	ON	ON	ON	ON				
Extra Life	*30k 100k 30k 100k					OFF	OFF	OFF	
	*30k 120k 30k 80k					ON	OFF	OFF	
	*40k 120k 30k 120k					OFF	ON	OFF	
	*30k 100k 100k 30k 80k 80k					ON	ON	OFF	
	*40k 120k 120k 30k 100k 100k					OFF	OFF	ON	
	*30k 30k 120k 120k					ON	OFF	ON	
	*40k 30k					OFF	ON	ON	
	None					ON	ON	ON	
Machine Set	Set 1								OFF
	Set 2								ON

DIP SW2		1	2	3	4	5	6	7	8
Life	3	OFF	OFF						
	1	ON	OFF						
	2	OFF	ON						
	*5	ON	ON						

Game Never Over