CGA/VGA JAMMA



CLASSICAL GAME COLLECTION

			r e

I. PCB DIP Switch Settings

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

II. System Setup

Keep **TEST SW** or **SERVICE SW** pressed or bit 4 of DIPSW 3 ON 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 S'	W1	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				
İ	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				

		 			
	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
Coin 2	2 coin 4 credit	ON	ON	ON	OFF
Com 2	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

DI	P SW2	1	2	3	4	5	6	7	8
Demo Music	Yes	OFF							
Demo Music	No	ON							
Game Demo	No		OFF						
Sound	Yes		ON						
Free Play	No			OFF					
rice riay	Yes			ON					
	Upright/1Control				OFF	OFF			
Cabinet	Cocktail				ON	OFF			
Cabinet	Upright/ 2Controls				OFF	ON			
	Cocktail				ON	ON			
Trackball	Normal						OFF		
Orientation	Exchange X/Y						ON		
Trackhall Signals	Normal							OFF	
Trackball Signals	Exchange DIR/CLK							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

GND 1 1 1 GND GND 2 2 GND +5V 3 3 3 +5V +5V 4 4 4 +5V 5 5 5 +12V 6 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 TRACKBALL 1 Y-D 1P-DOWN 19 19 2P-DOWN TRACKBALL 1 Y-C 1P-LEFT 20 20 2P-LEFT TRACKBALL 1 X-C 1P-SI 22 22 2P-SI 1P-S2 23 23 29-S2	I. JAMMA WIFE Map				~	11 011
GND	Part Side		T		So	
+5V	GND	GND	1			GND
+5V	GND	GND	2	2		GND
1	+5V	+5V	3	3		+5V
+12V	+5V	+5V	4	4		+5V
7			5	5		
1P COIN METER	+12V	+12V	6	6		+12V
9 9			7	7		
SPEAKER + 10 10 SPEAKER - 11 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 TRACKBALL 1 Y-D 1P-DOWN 19 19 2P-DOWN TRACKBALL 1 Y-C 1P-LEFT 20 20 2P-LEFT TRACKBALL 1 X-D 1P-RIGHT 21 21 2P-RIGHT TRACKBALL 1 X-C 1P-S1 22 22 2P-S1 1P-S2 23 23 2P-S2	COIN METER	N METER	8	8	2P COIN	METER
11 11 11 12 12 VIDEO G VIDEO B 13 13 VIDEO SYNC GND 14 14 SERVICE TEST 15 15 15 17 17 2P-START 17 17 2P-START 17 17 2P-START 19-UP 18 18 2P-UP TRACKBALL 1 Y-D 1P-DOWN 19 19 2P-DOWN TRACKBALL 1 Y-C 1P-LEFT 20 20 2P-LEFT TRACKBALL 1 X-D 1P-RIGHT 21 21 2P-RIGHT TRACKBALL 1 X-C 1P-S1 22 22 2P-S1 1P-S2 23 23 2P-S2 23 23 2P-S2 24 24 24 24 24 24 24			9	9		
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 TRACKBALL 1 Y-D 1P-DOWN 19 19 2P-DOWN TRACKBALL 1 Y-C 1P-LEFT 20 20 2P-LEFT TRACKBALL 1 X-D 1P-RIGHT 21 21 2P-RIGHT TRACKBALL 1 X-C 1P-S1 22 22 2P-S1 1P-S2 23 23 2P-S2	EAKER +	ER +	10	10	SPEAKE	R -
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 TRACKBALL 1 Y-D 1P-DOWN 19 19 2P-DOWN TRACKBALL 1 Y-C 1P-LEFT 20 20 2P-LEFT TRACKBALL 1 X-D 1P-RIGHT 21 21 2P-RIGHT TRACKBALL 1 X-C 1P-S1 22 22 2P-S1 1P-S2 23 23 2P-S2			11	11		
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 TRACKBALL 1 Y-D 1P-DOWN 19 19 2P-DOWN TRACKBALL 1 Y-C 1P-LEFT 20 20 2P-LEFT TRACKBALL 1 X-D 1P-RIGHT 21 21 2P-RIGHT TRACKBALL 1 X-C 1P-S1 22 22 2P-S1 1P-S2 23 23 2P-S2	DEO R	R	12	12	VIDEO G	ı T
TEST 15 15 1P-COIN 16 16 2P-COIN 1P-START 17 17 2P-START 1P-UP 18 18 2P-UP TRACKBALL 1 Y-D 1P-DOWN 19 19 2P-DOWN TRACKBALL 1 Y-C 1P-LEFT 20 20 2P-LEFT TRACKBALL 1 X-D 1P-RIGHT 21 21 2P-RIGHT TRACKBALL 1 X-C 1P-S1 22 22 2P-S1 1P-S2 23 23 2P-S2	DEO B	В	13	13	VIDEO S	YNC
1P-COIN 16 16 2P-COIN 1P-START 17 17 2P-START 1P-UP 18 18 2P-UP TRACKBALL 1 Y-D 1P-DOWN 19 19 2P-DOWN TRACKBALL 1 Y-C 1P-LEFT 20 20 2P-LEFT TRACKBALL 1 X-D 1P-RIGHT 21 21 2P-RIGHT TRACKBALL 1 X-C 1P-S1 22 22 2P-S1 1P-S2 23 23 2P-S2	ND		14	14	SERVICE	
1P-START 17 17 2P-START 1P-UP 18 18 2P-UP TRACKBALL 1 Y-D 1P-DOWN 19 19 2P-DOWN TRACKBALL 1 Y-C 1P-LEFT 20 20 2P-LEFT TRACKBALL 1 X-D 1P-RIGHT 21 21 2P-RIGHT TRACKBALL 1 X-C 1P-S1 22 22 2P-S1 1P-S2 23 23 2P-S2	CST		15	15		
1P-UP 18 18 2P-UP TRACKBALL 1 Y-D 1P-DOWN 19 19 2P-DOWN TRACKBALL 1 Y-C 1P-LEFT 20 20 2P-LEFT TRACKBALL 1 X-D 1P-RIGHT 21 21 2P-RIGHT TRACKBALL 1 X-C 1P-S1 22 22 2P-S1 1P-S2 23 23 2P-S2	-COIN	V	16	16	2P-COIN	
1P-DOWN 19 19 2P-DOWN TRACKBALL 1 Y-C 1P-LEFT 20 20 2P-LEFT TRACKBALL 1 X-D 1P-RIGHT 21 21 2P-RIGHT TRACKBALL 1 X-C 1P-S1 22 22 2P-S1 1P-S2 23 23 2P-S2	-START	RT	17	17	2P-STAR	T
1P-LEFT 20 20 2P-LEFT TRACKBALL 1 X-D 1P-RIGHT 21 21 2P-RIGHT TRACKBALL 1 X-C 1P-S1 22 22 2P-S1 1P-S2 23 23 2P-S2	-UP		18	18	2P-UP	TRACKBALL 1 Y-DIR
1P-RIGHT 21 21 2P-RIGHT TRACKBALL 1 X-C 1P-S1 22 22 2P-S1 1P-S2 23 23 2P-S2	-DOWN	/N	19	19	2P-DOWN	TRACKBALL 1 Y-CLK
1P-S1 22 22 2P-S1 1P-S2 23 23 2P-S2	-LEFT	Γ	20	20	2P-LEFT	TRACKBALL 1 X-DIR
1P-S2 23 23 2P-S2	-RIGHT	HT	21	21	2P-RIGHT	TRACKBALL 1 X-CLK
	-S1		22	22	2P-S1	
	-S2		23	23	2P-S2	
1P-S3 24 24 2P-S3	-S3		24	24	2P-S3	
25 25			25	25		
26 26			26	26		
GND 27 27 GND	GND	GND	27	27		GND
GND 28 28 GND	GND	GND	28	28	<u> </u>	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.

Game List

Ms Pacman



Galaga



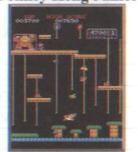
Frogger



Donkey Kong



Donkey Kong Junior



Donkey Kong 3



Galaxian



Dig Dug



Crush Roller



Mr. Do

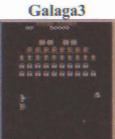


Space Invaders



Pacman









Tank Battalion



1942



Ladybug



Burger Time



Mappy



Centipede *



Millipede *



JR Pacman



Pengo . 11



Phoenix



Time Pilot



Super Cobra



Hustler



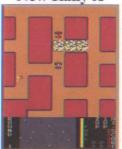
Space Panic



Super Breakout *



New Rally X



Arkanoid *



Qix



Juno Frist



Xevious



Mr. Do's Castle



Moon Cresta



Pinball Action



Scramble



Super Pacman



Bomb Jack



Shao-Lin's Road



King & Balloon



1943



Van-Van Car



Pacman Plus



Dig Dug 2



Amidar



Zaxxon

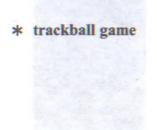


Pooyan





















Ms Pacman DIPSW Setup

vis i acii		<i></i>		-1					
DIP	SW1	1	2	3	4	5	6	7	8
	5	OFF	OFF						
Life	3	ON	OFF						
Life	2	OFF	ON						
	1	ON	ON						
	None			OFF	OFF				
Extra life	20000			ON	OFF				
Extra me	15000			OFF	ON				_
	10000			ON	ON				
Difficulty	Easy					OFF			
Difficulty	Hard					ON			
Cmand	Normal						OFF		
Speed	Fast						ON		
Ms Pacman	Dot							OFF	
Bean	Heart							ON	

Galaga DIPSW Setup

20 10 7 10 10 10 10 10 10 10 10 10 10 10 10 10	DIPSW1					4 P	3						
D	IP :	SW1				l	2	3	4	5	6	7	8
		I	Easy	•	0	FF	OFF						
Difficulty		Н	ardest		0	N	OFF						
Difficulty		I	Iard		0	FF	ON						
		M	edium		0	N	ON						
Continuous			No					OFF					
Shooting			Yes					ON					
	30k 80k		1	30	k		OFF	OFF	OFF				
Extra Life	B 20k 80k 80k	B 30k 150k		k 150k	ON	OFF	OFF						
	O	30k	120k	120k	N	30	k 120	k	OFF	ON	OFF		
	N U 20k 60k 60k	Ü	30	k 100	k 100k	ON	ON	OFF					
Extra Life	S 20k 60k		$\begin{vmatrix} \mathbf{S} \\ 2 \end{vmatrix}$ 30		S 30k 150k		OFF	OFF	ON				
	1	20k	70k	70k	 ~	30	k 120	k 120k	ON	OFF	ON		
		30k	100k	100k		30	k 100	k	OFF	ON	ON		
		(1)	lone)						ON	ON	ON		
Life -		5 (b	onus2	.)								OFF	OFF
		3 (b	onus 1)								ON	OFF
		4 (b	onus l)								OFF	ON
		2 (b	onus l)								ON	ON

D:	IP SW2	1	2	3	4	5	6	7	8
Bullet Speed	Normal	OFF							
Bullet Speed	Fast	ON							

Frogger DIPSW Setup

-	LIZBBILI									
	DIP	SW1	1	2	3	4	5	6	7	8
	* : 0	3	OFF	OFF						
	Life	7	ON	OFF						

5	OFF	ON			
3	ON	ON			

Donkey Kong DIPSW Setup

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

Donkey Kong Junior DIPSW Setup

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

Donkey Kong 3 DIPSW Setup

DIP		1	2	3	4	5	6	7	8
	3	OFF	OFF						
Life	4	ON	OFF						
Life	5	OFF	ON						
	6	ON	ON						
	30000			OFF	OFF				
Extra Life	40000			ON	OFF				
LAUA LILE	50000			OFF	ON				
	None			ON	ON				
	30000					OFF	OFF		
Additional	40000					ON	OFF		
Bonus	50000					OFF	ON		
	None					ON	ON		
	Easy							OFF	OFF
Difficulty	Medium							ON	OFF
Difficulty	Hard							OFF	ON
	Hardest							ON	ON

Galaxian DIPSW Setup

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

Dig Dug DIPSW Setup

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

Crush Roller DIPSW Setup

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

Mr. Do DIPSW Setup

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

Special	Easy	OFF			
Special	Hard	ON			
Extra	Easy		OFF		
Exua	Hard		ON		
	3		O	FF OFF	
Life	4		О	N OFF	
Life	5		(O)	FF ON	
	2		0	N ON	

Space Invaders DIPSW Setup

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

Pacman DIPSW Setup

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

Galaga3 DIPSW Setup

DII	P SW1		1	2	3	4	5	6	7	8
	0	(Easiest)	OFF	OFF	OFF					
-	1		ON	OFF	OFF					
	2		OFF	ON	OFF					
Difficulty	3		ON	ON	OFF					
Difficulty	4		OFF	OFF	ON					
	5		ON	OFF	ON					
	6		OFF	ON	ON					
	7	(Hardest)	ON	ON	ON					

	3	OFF	OFF			
Life	2	ON	OFF			
Life	4	OFF	ON			
	5	ON	ON			
	100k 300k 600k			OFF	OFF	OFF
	150k 400k			ON	OFF	OFF
	150k 400k 900k			OFF	ON	OFF
Extra Life	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 S			1	2	3	4	5	6	7	8
	3	3	OFF	OFF						
Life		1	ON	OFF						
Life	4	5	OFF	ON						
	3	3	ON	ON						
Extra Life	30k	60k			OFF					
Exua Lite	40k	70k			ON					
	1(Ea	asiest)				OFF	OFF	OFF		
	2	-				ON	OFF	OFF		·
	3					OFF	ON	OFF		
Difficulty	4					ON	ON	OFF		
Difficulty	5(A	verage)				OFF	OFF	ON		
	6					ON	OFF	ON		
	7					OFF	ON	ON		
	8(H	ardest)				ON	ON	ON		

Tank Battalion DIPSW Setup

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

1942 DIPSW Setup

DIP	SW1	1	2	3	4	5	6	7	8
	20k 80k	OFF	OFF						
Extra Life	20k 100k	ON	OFF						
Extra Enc	30k 80k	OFF	ON						
	30k 100k	ON	ON						

	3	OFF	OFF			
Life	1	ON	OFF			
Life	2	OFF	ON			
	5	ON	ON			
	Normal			OFF	OFF	
Difficulty	Easy			ON	OFF	
Difficulty	Hard			OFF	ON	
	Hardest			ON	ON	

Ladybug DIPSW Setup

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

Burger Time DIPSW Setup

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

Mappy DIPSW Setup

DIP S	SW1	1	2	3	4	5	6	7	8
	3	OFF	OFF						
Life	*5	ON	OFF						
Life	1	OFF	ON						
	2	ON	ON						
	*30k 80k 20k 70k			OFF	OFF	OFF			
	*30k100k 20k 60k			ON	OFF	OFF			
	*30k 120k 20k 80k			OFF	ON	OFF			
Extra Life	*30k 30k100k			ON	ON	OFF			
EXHA LITE	*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			

	A				OFF	OFF	OFF
	В		_		ON	OFF	OFF
	С				OFF	ON	OFF
Rank	D				ON	ON	OFF
Kalik	Е				OFF	OFF	ON
	F				ON	OFF	ON
	G				OFF	ON	ON
	Н				ON	ON	ON

Centipede * DIPSW Setup

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

Millipede * DIPSW Setup

DIP S	SW1	1	2	3	4	5	6	7	8
Millipede Head	Easy	OFF							
Willipede Head	Hard	ON							
Beetle	Easy		OFF						
Beetle	Hard		ON						
	2			OFF	OFF				
Life	3			ON	OFF				
Life	4			OFF	ON				
	5			ON	ON				
	12000					OFF	OFF		
Extra Life	15000					ON	OFF		
Extra Life	20000					OFF	ON		
	None					ON	ON		
Spider	Easy							OFF	
Spidel	Hard							ON	
Starting Score	No								OFF
Select	Yes								ON

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

JR Pacman DIPSW Setup

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

Pengo DIPSW Setup

DIP		1	2	3	4	5	6	7	8
Extra Life	50000	OFF							
Extra Life	30000	ON							
	2		OFF	OFF					
Life	3		ON	OFF					
Life	4		OFF	ON					
	5		ON	ON					
. ,	Easy				OFF	OFF			
Difficulty	Medium				ON	OFF			
Difficulty	Hard				OFF	ON			
	Hardest				ON	ON			
Machine Set	Set1						OFF		
iviacinne set	Set2						ON		

Phoenix DIPSW Setup

Marie Carlo Marie Street Production of the Commission of the Commi			- C C C C							
DIP	SW1		1	2	3	4	5	6	7	8
	3		OFF	OFF						_
Life	4		ON	OFF						
Life	5		OFF	ON						
	6		ON	ON						
	3K	30K			OFF	OFF				
Extra Life	4K	40K			ON	OFF				
LAUG LIIC	5K	50K			OFF	ON				
	6K	60K			ON	ON				

Time Pilot DIPSW Setup

THRE THE	JU IZI S Y	VV D	ctup	2					
DIP	SW1	1	2	3	4	5	6	7	8
	3	OFF	OFF						
Life	4	ON	OFF						
Life	5	OFF	ON						
	5	ON	ON						
Extra Life	10k 50k			OFF					
Extra Life	20k 60k		_	ON					
	1(Easiest)				OFF	OFF	OFF		-
	2				ON	OFF	OFF		
	3				OFF	ON	OFF		
Difficulty	4				ON	ON	OFF		
Difficulty	5(Average)				OFF	OFF	ON		
	6				ON	OFF	ON		
	7				OFF	ON	ON		
	8(Hardest)				ON	ON	ON		

Super Cobra DIPSW Setup

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

Hustler DIPSW Setup

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

Space Panic DIPSW Setup

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

Super Breakout * DIPSW Setup

	DIP S	W1		1	2	3	4	5	6	7	8
Mode		Cole	or	OFF							
Mode	, [В&'	W	ON							
T : C-		3			OFF						
Life	Ī	5			ON						
		Medi	um			OFF	OFF				
Marra Car		Slo	w			ON	OFF				
Move Sp	eea	Fas	t			OFF	ON				
		Very 1	Fast			ON	ON				
		None						OFF	OFF	OFF	
	200P	200C	200D					ON	OFF	OFF	
	400P	300C	400D					OFF	ON	OFF	
	600P	400C	600D					ON	ON	OFF	
Time *	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

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

Arkanoid * DIPSW Setup

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

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

Qix DIPSW Setup

DIP		1	2	3	4	5	6	7	8
	5	OFF	OFF						
Life	4	ON	OFF						
Life	3	OFF	ON						
	2	ON	ON						
	60%			OFF	OFF	OFF			
	65%			ON	OFF	OFF			
	70%			OFF	ON	OFF			
Threshold	75%			ON	ON	OFF			
Tineshold	80%			OFF	OFF	ON			
	85%			ON	OFF	ON			
	90%			OFF	ON	ON			
	95%			ON	ON	ON			
	60						OFF	OFF	OFF
	55						ON	OFF	OFF
	50						OFF	ON	OFF
Time	45						ON	ON	OFF
rime	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
	3	OFF	OFF						
Life	4	ON	OFF						
Life	5	OFF	ON				·		
	3	ON	ON		-				
	1(Easiest)			OFF	OFF	OFF			
	2			ON	OFF	OFF			
	3			OFF	ON	OFF			
Difficulty	4			ON	ON	OFF			
Difficulty	5			OFF	OFF	ON			
	6			ON	OFF	ON	-		
	7			OFF	ON	ON			
	8(Hardest)			ON	ON	ON			

Xevious DIPSW Setup

TALL HIDOMOP P. MICHAEL ST.	IP SW1	1	2	3	4	5	6	7	8
	3	OFF	OFF						
Life	1	ON	OFF						
Life	2	OFF	ON						
	5	ON	ON						
Flags Award	Yes			OFF					
Bonus Life	No			ON					
	Normal				OFF	OFF			
Difficulty	Easy				ON	OFF			-
Difficulty	Hard				OFF	ON			
	Hardest				ON	ON			
	20k60k60k / 20k70k70k						OFF	OFF	OFF
İ	10k40k40k / 10k50k50k						ON	OFF	OFF
	10k50k50k / 20k50k50k						OFF	ON	OFF
Extra Life	20k50k50k / 20k60k60k						ON	ON	OFF
LAGA ENC	20k70k70k / 20k80k80k						OFF	OFF	ON
	20k80k80k/30k100k100k	<u> </u>					ON	OFF	ON
	20k 60k/20k 80k						OFF	ON	ON
	None						ON	ON	ON
D	IP SW2	1	2	3	4	5	6	7	8
	Set 1	OFF	OFF						
Machine Se	Set 2	ON	OFF						
Machine Se	Set 3	OFF	ON						
	Super Xevious	ON	ON						

Mr. Do's Castle DIPSW Setup

DIP SW	1	1	2	3	4	5	6	7	8
	Easy	OFF	OFF						
Diffi aultu	Medium	ON	OFF						
Difficulty	Hard	OFF	ON						
	Hardest	ON	ON						
Machine Set	Set 1			OFF					
Machine Set	Set 2			ON					
Advance Level On	Off				OFF				
Getting Diamond	On				ON				
Dartus I ica	Easy					OFF			
Extra Life	Hard					ON			
	3						OFF	OFF	
Tic	4						ON	OFF	
Life	5						OFF	ON	
	2			_			ON	ON	

Moon Cresta DIPSW Setup

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

Pinball Action DIPSW Setup

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

Control	Left Paddle	Right Paddle	Shoot	Shake
Mode 1	LEFT	RIGHT	S 1	S2
Mode 2	S 1	S2	UP/DOWN	LEFT/RIGHT
Mode 3	LEFT	RIGHT	UP	S1
Mode 4	LEFT	RIGHT	UP	DOWN

	DIP SV	V2		1	2	3	4	5	6	7	8
	70k	200k		OFF	OFF	OFF					
	70k	200k	1000k	ON	OFF	OFF					
	100k			OFF	ON	OFF					
Extra Life	100k	300k		ON	ON	OFF					
Exua Lite	100k	300k	1000k	OFF	OFF	ON					
	200k			ON	OFF	ON					
	200k	1000k		OFF	ON	ON					
		None		ON	ON	ON					
Extra		Easy					OFF				
LAH		Hard					ON				
		Easy						OFF	OFF		
Difficulty]	Mediun	1					ON	OFF		
(Flippers)		Hard						OFF	ON		
		Hardest						ON	ON		
		Easy								OFF	OFF
Difficulty		Mediun	1							ON	OFF
(Outlans)		Hard								OFF	ON
		Hardest	:							ON	ON

Scramble DIPSW Setup

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

*Supe	r Pacman I	DIP	SW	/ Se	tup				
	DIP SW1	1	2	3	4	5	6	7	8
	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				
Difficulty	7	ON	ON	ON	OFF				
Difficulty	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				
	*30k 100k 30k 100k					OFF	OFF	OFF	
	*30k 120k 30k 80k					ON	OFF	OFF	
	*40k 120k 30k 120k					OFF	ON	OFF	
Extra Life	*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 1								OFF
Set	Set 2								ON
	DIP SW2	1	2	3	4	5	6	7	8
	3	OFF	OFF						
T : C-	1	ON	OFF						
Life	2	OFF	ON						
	*5	ON	ON						

Bomb Jack DIPSW Setup

DIP S		1	2	3	4	5	6	7	8
	3	OFF	OFF						
Life	4	ON	OFF						
Liic	5	OFF	ON						
	2	ON	ON						
	Easy			OFF	OFF				
Bird Speed	Medium			ON	OFF				
Bhu Speed	Hard			OFF	ON				
	Hardest			ON	ON				
	Easy					OFF	OFF		
Enemies Number &	Medium					ON	OFF		
Speed	Hard					OFF	ON		
•	Hardest					ON	ON		
Special Coin	Easy							OFF	
Special Com	Hard							ON	

Shao-Lin's Road DIPSW Setup

DIP S	3W1		1	2	3	4	5	6	7	8
	3	3	OFF	OFF						
Life		5	ON	OFF						
Life	1	7	OFF	ON						
		2	ON	ON						
	30k	70k			OFF	OFF				
Extra Life	40k	80k			ON	OFF				
Exua Life	40k				OFF	ON				
	50k				ON	ON				
	Ea	ısy					OFF	OFF		
Difficulty	Med	lium					ON	OFF		
Difficulty	Ha	ard					OFF	ON		
	Har	dest					ON	ON		

King & Balloon DIPSW Setup

DIP S		1	2	3	4	5	6	7	8
	10000	OFF	OFF						
Extra Life	12000	ON	OFF						
Extra Effe	15000	OFF	ON					-	
	None	ON	ON						
Life	2			OFF					
Lii¢	3			ON					
Speech	Off				OFF				
Speech	On				ON				

1943 DIPSW Setup

DIX	***************************************								
DIP S	W1	1	2	3	4	5	6	7	8
	1 (Easiest)	OFF	OFF	OFF	OFF				
	2	ON	OFF	OFF	OFF				
	3	OFF	ON	OFF	OFF				
	4	ON	ON	OFF	OFF				
	5	OFF	OFF	ON	OFF				
	6	ON	OFF	ON	OFF				
	7	OFF	ON	ON	OFF				
Difficulty	8	ON	ON	ON	OFF				
Difficulty	9	OFF	OFF	OFF	ON				
	10	ON	OFF	OFF	ON				
	11	OFF	ON	OFF	ON				
	12	ON	ON	OFF	ON				
	13	OFF	OFF	ON	ON				
	14	ON	OFF	ON	ON				
	15	OFF	ON	ON	ON				
	16 (Hardest)	ON	ON	ON	ON				
*2 Playara Gama	2 Credits					OFF			
*2 Players Game	1 Credit					ON			
Allow Continue	Yes						OFF		
Anow Continue	No						ON		

^{• 2} Players Mode is enabled only in "Upright/ 2 Controls" mode

Van-Van Car DIPSW Setup

DIP S			1	2	3	4	5	6	7	8
	None	е	OFF	OFF						
Extra Life	20k 1	100k	ON	OFF						
Extra Life	40k 1	140k	OFF	ON						
	70k 2	200k	ON	ON						
	3				OFF	OFF				
Life	4				ON	OFF				
Life	5				OFF	ON				
	6				ON	ON				

Pacman Plus DIPSW Setup

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

Difficulty	Easy	OFF			
Difficulty	Hard	ON			
Ghost Name	Normal		OFF		
Gliost Name	Alternate		ON		
Speed	Normal			OFF	
Speed	Fast			ON	

Dig Dug 2 DIPSW Setup

								-		
DIP S	W1		1	2	3	4	5	6	7	8
Life	3	3	OFF							
Life	,	5	ON							
	30k	80k		OFF	OFF					
Extra Life	30k	100k		ON	OFF					
Extra Effe	30k	120k		OFF	ON					
	30k	150k		ON	ON					
Level Select	О	ff				OFF				
Level Select	C	n				ON				

Amidar DIPSW Setup

DIP			1	2	3	4	5	6	7	8
	3	3	OFF	OFF						
Life	4	4	ON	OFF						
Life	4	5	OFF	ON						
	4	5	ON	ON						
Extra Life	50k	80k			OFF					
Exua Life	30k	70k	Ī		ON					

Zaxxon DIPSW Setup

DIP S	SW1	1	2	3	4	5	6	7	8
	10000	OFF	OFF						
Extra Life	30000	ON	OFF						
DAUG LIFE	20000	OFF	ON						
	40000	ON	ON						
	3			OFF	OFF				
Life	5			ON	OFF				
	4			OFF	ON				

Pooyan DIPSW Setup

i ooyan i				<u> </u>						
DIP S	SW1		1	2	3	4	5	6	7	8
	3	3	OFF	OFF						
Life	4	1	ON	OFF						
Life	4	5	OFF	ON						
		5	ON	ON						
Extra Life	50k	80k			OFF					
Extra Life	30k	70k			ON					
	1 (Ea	isiest)				OFF	OFF	OFF		
	2					ON	OFF	OFF		
	3					OFF	ON	OFF		
D:07 . 14	4					ON	ON	OFF		
Difficulty	5 (A	verage)				OFF	OFF	ON		
	6					ON	OFF	ON		
	7					OFF	ON	ON		
	8 (H	ardest)				ON	ON	ON		

Pleiads DIPSW Setup

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

Gun. Smoke DIPSW Setup

DIP S	SW1	1	2	3	4	5	6	7	8
	30k 100k 100k	OFF	OFF						
Extra Life	30k 100k	ON	OFF						
Exua Lile	30k 80k 80k	OFF	ON						
	30k 100k 150k	ON	ON						
	Easy			OFF	OFF				
Diecele.	Normal			ON	OFF				
Difficulty	Hard			OFF	ON				
	Hardest			ON	ON				
Allaca Cantinua	Yes					OFF			
Allow Continue	No					ON			
M- 4-	3 Buttons			<u> </u>			OFF		
Mode	1 Button						ON		

The End DIPSW Setup

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

1943 Kai DIPSW Setup

L743 IXAL	DIE SYV								
DIP S	W1	1	2	3	4	5	6	7	8
	1 (Easiest)	OFF	OFF	OFF	OFF				
	2	ON	OFF	OFF	OFF				
	3	OFF	ON	OFF	OFF				
	4	ON	ON	OFF	OFF				
	5	OFF	OFF	ON	OFF				
	6	ON	OFF	ON	OFF				
	7	OFF	ON	ON	OFF				
Difficulty	8	ON	ON	ON	OFF				
Difficulty	9	OFF	OFF	OFF	ON				
	10	ON	OFF	OFF	ON				
	11	OFF	ON	OFF	ON				
	12	ON	ON	OFF	ON				
	13	OFF	OFF	ON	ON				
	14	ON	OFF	ON	ON				
	15	OFF	ON	ON	ON				
	16 (Hardest)	ON	ON	ON	ON				
*2 Players Game	2 Credits					OFF			
2 1 layers Game	1 Credit					ON			
Allow Continue	Yes						OFF		
Anow Continue	No						ON		

^{• 2} Players Mode is enabled only in "Upright/ 2 Controls" mode

Congo Bongo DIPSW Setup

DIP		1	2	3	4	5	6	7	8
	10k	OFF	OFF						
Extra Life	20k	ON	OFF						
Exua Life	30k	OFF	ON						
	40k	ON	ON						
	Easy			OFF	OFF				
Difficulty	Medium			ON	OFF				
Difficulty	Hard			OFF	ON				
	Hardest	1		ON	ON				
	3					OFF	OFF		
Life	4					ON	OFF		
Life	5					OFF	ON		
	3					ON	ON		

Jumping Jack DIPSW Setup

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

