# CGA/VGA JAMMA

# ARCODE



# I. PCB DIP Switch Settings

DIP S	W3	1	2	3	4	5	6	7	8
Screen Orientation	Normal	OFF							
Screen Orientation	Flip Screen	ON							
Display Mode	CGA-15.75Khz		OFF	PARE					
(CRT)	VGA-31.5Khz		ON						
High Score Saver	Disabled			OFF			0.21%		
Tilgii Score Saver	Enabled	-	1	ON	Sharp.				
Contam Mada	Normal Mode			av i	OFF		14.11		1
System Mode	Test Mode				ON	State of			

# 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

DI	P SW1	1	2	3	4	5	6	7	8
	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				200
	2 coin 2 credit	ON	OFF	ON	OFF	a dist	elgin y		4
	2 coin 3 credit	OFF	ON	ON	OFF				
Coin1	2 coin 4 credit	ON	ON	ON	OFF	South)			1
Comi	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			1	
	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				

			A	100000	1000
	1 coin 1 credit	OFF		_	Market Street
	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	<b>OFF</b>
	2 coin 2 credit	ON	OFF	ON	OFF
	2 coin 3 credit	OFF	ON	ON	OFF
0-1-2	2 coin 4 credit	ON	ON	ON	OFF
Coin 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
Dama Maria	Yes	OFF			WS II				THE P
Demo Music	NO	ON			Maria and	- mails		CARL	3.4
Game Demo	NO		OFF		4.77	CP 15		1 0	16
Sound	Yes	19 19:3	ON			Terry		75	on 1
E Dl	NO			OFF					
Free Play	Yes			ON				247.7	
F-6.015	Upright/1Control	1 68			OFF	OFF	1.5	VITE OF	
Cabinat	Cocktail	SE LO	e de la		ON	OFF		1511	43
Cabinet	Upright/2Control	-			OFF	ON			
	Cocktail	14116	O BRO		ON	ON	1 911	4 DA	3
Trackball	Normal	15/4	o Hi	1			OFF	ALI	9
Orientation	Exchange X/Y						ON		
Trackball	Normal							OFF	
Signals	Exchange DIR/CLK	715			- 10		,	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(cabinet is set to "upright/1 control" mode)

Part Side			So	lder Side
GND	1	1	See of the see	GND
GND	2	2		GND
+5V	3	3	on May I	+5V
+5V	4	4	2, 413,612,5	+5V
NO RO SIO RIO	5	5	I done	
+12V	6	6		+12V
	7	7		
1P COIN METER	8	8	2P COIN	METER
PO ESTORANCE	9	9	Led affers &	des es projon agamo
SPEAKER+	10	10	SPEAKE	R-
	11	11		
VIDEO R	12	12	VIDEO (	F Man VIETNAME CO.
VIDEO B	13	13	VIDEO S	YNC
GND	14	14	SERVIC	E
TEST	15	15		
1P-COIN	16	16	2P-COIN	
1P-START	17	17	2P-STAR	T
1P-UP	18	18	2P-UP	TRACKBALL Y-DIR
1P-DOWN	19	19	2P-DOWN	TRACKBALL Y-CLK
1P-LEFT	20	20	2P-LEFT	TRACKBALL X-DIR
1P-RIGHT	21	21	2P-RIGHT	TRACKBALL X-CLK
1P-S1	22	22	2P-S1	
1P-S2	23	23	2P-S2	
1P-S3	24	24	2P-S3	opialso summe name
qua and litting of musical	25	25	A I I WORK OF	ORIGI DILICOV
the state of the s	26	26		
GND	27	27		GND
GND	28	28		GND

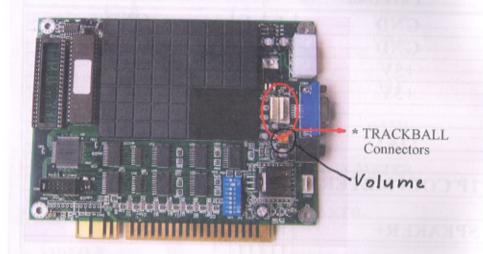
PS: The PCB voltage of +5V pin CAN NOT exceed +5.5V

IV. JAMMA Wire Map(cabinet is NOT set to "upright/1 control" mode)

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
and the second second	7	7	
1P COIN METER	8	8	<b>2P COIN METER</b>
	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	avalle I
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

# V. Extra TRACKBALL Connectors



# \* TRACKBALL Connectors Definition

	CON3		CON4
•	GND		GND
•	1P X-CLK		2P X-CLK
•	1P X-DIR		2P X-DIR
	1P X-CLK	•	2P X-CLK
	1P X-DIR	•	2P X-DIR
	+5V		+5V

# **Game List**

Ms Pacman



Donkey Kong



Galaxian



Mr.Do



Galaga



Donkey Kong Junior



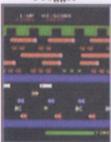
Dig Dug



Space Invaders



Frogger



Donkey Kong 3



Crush Roller



Pacman





















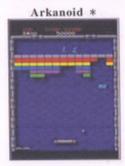






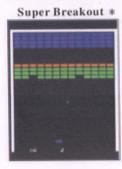


















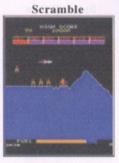












Super Pacman





Shao-Lin's Road





1943



Van-Van Car

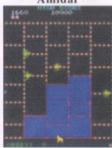




Pacman Plus



Amidar

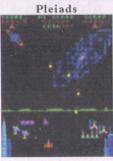


Zaxxon



Pooyan







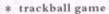






Jumping Jack







N	1	9 1	P	2	C	m	9	n	D	P	S	W	S	01	tuı	ò

DIPSV	V1	1	2	3	4	5	6	7	8
	5	OFF	OFF						
Life .	3	ON	OFF				li mis	(In D	J
Life	2	OFF	ON						
	1	ON	ON					OFF	
	None			OFF	OFF				1
F 116-	20000			ON	OFF				
Extra life	15000			OFF	ON				
	10000			ON	ON				
Difficulty	Easy			100		OFF	-		
Difficulty	Hard				- 10	ON		4	1
Speed	Normal	and and					OFF		11
Speed	Fast		0.000				ON	OFF	
Ms Pacman	Dot			2005003		- prints		OFF	
Bean	Heart							ON	

# Galaga DIPSW Setup

DIP	SW1			1	2	3	4	5	6	7	8
	4 Land	Easy	0	FF	OFF						
Difficulty	1	Hardest	0	N	OFF						
Difficulty	1	Hard	0	FF	ON						
	N	Medium	0	N	ON						
Continuous		NO				OFF					
Shooting		Yes				ON			mar in		
	30	K 80K		30	K		OFF	OFF	OFF		
	The second second	K 80K 80K		30	K 150K	150K	ON	OFF	OFF		
	0 30	K 120K 120K	0	30	K 120K		OFF	ON	OFF		
P-1-116	N U 20	K 60K 60K	N	30	K 100K	100K	ON	ON	OFF		
Extra Life	S 20	K 60K	10	30	K 150K		OFF	OFF	ON		
		K 70K 70K	2	30	K 120K	120K	ON	OFF	ON		
	30	K 100K 100K		30	K 100K		OFF	ON	ON		1
		(None)				-	ON	ON	ON		
30,00	5	(bonus2)			100 3					OFF	OFF
Life	3	(bonus1)					4	= (46)		ON	OFF
Life	4	(bonus1)			lo'un					OFF	ON
	2	(bonus1)	um ON	11-11		119		ON	ON		

DIPSW	/2	1	2	3	4	5	6	7	8
Bullet Speed	Normal	OFF							
Bullet Speed	Fast	ON							

# Frogger DIPSW Setup

DIPSV	V3	1	2	3	-4	5	6	7	8
1.00	3	OFF	OFF						
Life	7	ON	OFF						

	5	OFF	ON	
R P R	3	ON	ON	

# Donkey kong DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
	3	OFF	OFF		on the same				
110	4	ON	OFF						
Life	5	OFF	ON						
	6	ON	ON						
	7000		- U	OFF	OFF	1		.01	
F 116	10000			ON	OFF	17/1/55	1		
Extra Life	15000		111	OFF	ON				
	20000		100	ON	ON				

# Donkey kong Junior DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
	3	OFF	OFF						
	4	ON	OFF						
Life	5	OFF	ON			01:			
170 1910	6	ON	ON	1 00		07			
1896	7000			OFF	OFF				100
F-1-116	10000			ON	OFF	ni i		Colonia de la co	
Extra Life	15000			OFF	ON				
	20000	3 3 3		ON	ON	loc I			

# Donkey kong3 DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
0 1110	3	OFF	OFF		SIL				
0	4	ON	OFF						
Life	5	OFF	ON						
Brillian I	6	ON	ON						W X
	30000			OFF	OFF	1/4			
	40000	I BAL	1110	ON	OFF				
Extra Life	50000	1111	100	OFF	ON				
	None	JVG	1911	ON	ON			F N OFF	
	30000	LAR	140		- 01	OFF	OFF		
Additional	40000		1		erm?	ON	OFF		
Bonus	50000	13		12.0	ARRIV	OFF	ON		
	None					ON	ON		
	Easy		14.11	1	2000			OFF	OFF
	Medium		129			ml 1/0	310	ON	OFF
Difficulty '	Hard	He	1991		No.			OFF	ON
	Hardest	113	100		andad			ON	ON

Ga	ax	iar	DI	PS	W	Se	t III I	0

DIPS	W1	1	2	3	4	5	6	7	8
Extra Life	7000	OFF	OFF			southile:		-	Sec.
	10000	ON	OFF						
	12000	OFF	ON	1		S.W.	glQ.		
	20000	ON	ON	·					
1.16	2	3 3 3 3 5	E KAG	OFF				11000	
Life	3	43.00	1986	ON	215				

#### Dig Dug DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
Carti	NO	OFF			1103				
Continue	Yes	ON			tuno:				
	Easy		OFF	OFF					
Difficulty	Medium	100	ON	OFF				NA L	
Difficulty	Hard		OFF	ON		Little	SHI		
	Hardest	LET'S	ON	ON					
	None		1 161		OFF	OFF	OFF		
	20K 70K 70K	1110	1,1118		ON	OFF	OFF		
Extra Life	10K 50K 50K	1.50	5.1930	1	OFF	ON	OFF		
	20K 60K			100	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
	5				12			ON	OFF
Life	1	Juni	1188		1881			OFF	ON
Laboratory I	2		4-84	F				ON	ON

## Crush Roller DIPSW Setup

DIPS	W1	- 1	2	3	4	5	6	7	8
	3	OFF	OFF		nado				
1:6.	4	ON	OFF		0000				
Life	- 5	OFF	ON		amiris.				
	6	ON	ON		0.0-(20)				
Difficulty	Easy		4	OFF	in the Court		18	000	
Difficulty	Hard			ON				Stanto.	

# Mr.Do DIPSW Setup

DIPS	SW1	1	2	3	4	5	6	7	8
Difficulty	Easy	OFF	OFF		02850				
	Medium	ON	OFF	l You	state 6				
	Hard	OFF	ON	4 16					
	Hardest	ON	ON						

0	Easy	OFF	Y SE			
Special	Hard	ON				
	Easy		OFF			
Extra	Hard	10 10 10 10 10	ON			
EMPORTO:	3	and the same		OFF	OFF	
Lugiko I	4		300	ON	OFF	
Life	5	100		OFF	ON	
ONLON	2	100 100	TO THE	ON	ON	

## Space Invaders DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
TWO LEG	3	OFF	OFF	31000					
	4	ON	OFF			12			
Life	5	OFF	ON	100	110			1119	
	6	ON	ON			4			
	1500	Tion	A TOTAL	OFF	200				
Extra Life	1000	O OFF	307	ON					
Mode	Color		The second		OFF				
	B&W	Time	1347		ON				

#### Pacman DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	- 8
	5	OFF	OFF						
1	3	ON	OFF						
Life	2	OFF	ON						
7 17.0	1	ON	ON						
	None			OFF	OFF				
200	20000			ON	OFF				
Extra Life	15000			OFF	ON				
	10000			ON	ON				
D100 1	Easy	40000				OFF			
Difficulty	Hard					ON			
CI	Normal						OFF		
Ghost Name	Alternate						ON		
6 4	Normal							OFF	
Speed	Fast			1		-		ON	

#### Galaga3 DIPSW Setup

DIP	SW1		1	2	3	4	5	6	7	8
	0	(Easiest)	OFF	OFF	OFF	-				
	1		ON	OFF	OFF	W.				
	2		OFF	ON	OFF			MIG		
D:00 - 1-	3		ON	ON	OFF	IR LA				
Difficulty	4		OFF	OFF	ON	100				
	5		ON	OFF	ON	Harri				
	6		OFF	ON	ON	(Harris				
	7	(Hardest)	ON	ON	ON	N NE				

	3		OFF	OFF			
Life	2	2	ON	OFF			
Life	4		OFF	ON			
	5		ON	ON			
340	100K 300K 600K				OFF	OFF	OFF
	150K 400K				ON	N ON FF OFF N OFF FF ON	OFF
	150K 400K 900K		1111		OFF	ON	OFF
Extra Life	100K 300K 300K		Day I S. S.		ON	ON	OFF
Extra Life	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
	3	OFF	OFF					Lane	
1.16-	4	ON	OFF						
Life	5	OFF	ON					100	
	3	ON	ON						
Porto Life	30K 60K			OFF	La Para				
Extra Life	40K 70K			ON					
	1(Easiest)				OFF	OFF	OFF		
	2				ON	OFF	OFF		
	3				OFF	ON	OFF		
Difficulty	4				ON	ON	OFF	. Marine	
	5(Average)				OFF	OFF	ON		
	6				ON	OFF	ON		
	7				OFF	ON	ON		
	8(Hardest)				ON	ON	ON		

# Tank Battalion DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
	None	OFF	OFF						
Extra Life	20000	ON	OFF	4-					
Extra Life	15000	OFF	ON						
	10000	ON	ON	demini	-				ann.
(16.	2		1111	OFF	V.			290	
Life	3			ON		1 /4			

# 1942 DIPSW Setup

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

OBE OF T	3	OFF	OFF		
110	1	ON	OFF		
Life	2	OFF	ON		
DE OFFICE	5	ON	ON		
30 110	Normal			OFF	OFF
Difficulty	Easy			ON	OFF
Difficulty	Hard			OFF	ON
NO MO	Hardest	1 1000	Out.	ON	ON

# Ladybug DIPSW Setup

DIPS	SW1	1	2	3	4	5	6	7	8
	Easy	OFF	OFF						
Difficulty	Medium	ON	OFF					7	
Difficulty	Hard	OFF	ON	War of					
	Hardest	ON	ON	F					
High Score Names	10 Letters			OFF		100			
Names	3 Letters			ON					
Names	3	2		1 100	OFF	-		STALL	
Life	5				ON			-	

## Burger Time DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
Life	3	OFF							
Life	5	ON						7	-
	10000		OFF	OFF				1	
Form 136	15000		ON	OFF	LIDE!			<i>y</i>	
Extra Life	20000		OFF	ON					
2	30000	- American	ON	ON	11111				
Enemies	4	- Dress			OFF			4 11	
Ellelliles	6				ON				
End of Lever	No	May 2	5			OFF			
Pepper	Yes					ON	Jag	Januar .	

# Mappy DIPSW Setup

DIP	SW1	1	2	3	4	5	6	7	8
	3	OFF	OFF						
1.160	*5	ON	OFF						
Life	1	OFF	ON						
	2	ON	ON						
	*30k 80k 20k 70k			OFF	OFF	OFF			
*3	*30k 100k			ON	OFF	OFF		I mad	
	*30k 120k	OFF OFF ON OFF ON ON OFF OFF OFF							
Porton Life	*30k 30k 100k			ON	ON	OFF			
Extra Life	*40k			OFF	OFF	ON		Solute	
	*30k 100k 100k			ON	OFF	ON			
	*40k 120k 120k			OFF	ON	ON	210	Contin	
	3 OFF OFF								

	A	OFF OFF OF
	В	ON OFF OF
	C	OFF ON OF
	D d	ON ON OF
Rank	E E	OFF OFF ON
1110	F	ON OFF ON
MO	G	OFF ON ON
Bo Bo	Н	ON ON ON

# Centipede \* DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
	EngLish	OFF	OFF						
Language	German	ON	OFF						James
Language	French	OFF	ON		Tripes.				
	Spanish	ON	ON				Jag-min		
	2		-	OFF	OFF				
Life	3			ON	OFF		-		
Life	4		L. I	OFF	ON	-		dis	
	5			ON	ON	2010100			
- musical track	10000	0.0.0	P1118	- N	1	OFF	OFF	Sec. 19	and t
Francisco I	12000	7 7		91.11		ON	OFF		
Extra Life	15000		To a			OFF	ON		
	20000		Married .			ON	ON	MILL	
Difficulty	Easy		1			-		OFF	
Difficulty	Hard	7	7					ON	
Move Speed	Normal	7						OFF	OFF
Move speed	Fast								ON

# Millipede \* DIPSW Setup

DIPS	W1	1	2	3	4	-5	6	7	- 8
Millipede Head	Easy	OFF					4-1		
Willipede Head	Hard	ON							+
Beetle	Easy	- DR	OFF	1	17	K 1	48		80 2
Beetle	Hard	2. 10.51	ON				0010		7
	2			OFF	OFF				
Life	3	- Charles	el sole	ON	OFF		9		The
Life	4	1100		OFF	ON		in more	7161	
	5	Torr	Tige.	ON	ON				
	12000				701	OFF	OFF		
Post Life	15000		1			ON	OFF		
Extra Life	20000					OFF	ON	4-19-	
86 11 11 12 11	None		9-99			ON	ON		
Cnidae	Easy	10						OFF	
Spider	Hard							ON	9
Starting Score	No	10							OFF
Select	Yes	7			King Brown				ON

DIP	SW2	1	2	3	4	5	6	7	8
	Einglish	OFF	OFF				Mila.		
Language	German	ON	OFF						
Language	French	OFF	ON						
	Spanish	ON	ON						
	0	Line	100	OFF	OFF				
Bonus	0 1x	16 7	1	ON	OFF				
Bonus	0 1x 2x		la l	OFF	ON				
	0 1x 2x 3x	11		ON	ON				
Move Speed	Normal					OFF			
move speed	Fast					ON	1768		

# JR Pacman DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
To all July	1	OFF	OFF						
Life	2	ON	OFF						
Life	3	OFF	ON					13.6	
	5	ON	ON		11 8	IN THE			
New Horse	10000	c DI	1011	OFF	OFF	19.71	100	S. Hillians	
Extra Life	15000	1/1/2	territor.	ON	OFF	17			
Extra Life	20000			OFF	ON				
HAT HELD	30000		1	ON	ON				
Difficulty	Normal					OFF		N	
Difficulty	Hard			1 6	1150.2	ON			
Speed	Normal						OFF		
Speed	Fast		100				ON		

# Pengo DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
Entre Life	50000	OFF	1997	171.5					
Extra Life	30000	ON	Line		100				
	2	irri	OFF	OFF					
Life	3	3250	ON	OFF				117	
Life	4		OFF	ON					
	5		ON	ON					
Total State of State	Easy				OFF	OFF			
Difficulty	Medium		17.7%	1	ON	OFF		olu I	
Difficulty	Hard			1	OFF	ON			
	Hardest			200	ON	ON			
Machine Set	Set1						OFF		
machine Set	Set2			1		119	ON		

#### Phoenix DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
	3	OFF	OFF					a ka	
	4	ON	OFF		101/2				
Life	5	OFF	ON						
	6	ON	ON						
	3K 30K			OFF	OFF	1100			
Farm Life	4K 40K	1 8 100		ON	OFF	2510.9			W.
Extra Life	5K 50K	01		OFF	ON				
	6K 60K			ON	ON				

#### Time Pilot DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
1-7-1-4-1	3	OFF	OFF				910		
Life	4	ON	OFF						
Life	5	OFF	ON		- 2				
	5	ON	ON						
E 116	10K 50K	1 VIC	No.	OFF					
Extra Life	20K 60K			ON	Marie ()				
	1(Easiest)				OFF	OFF	OFF		
	2				ON	OFF	OFF		
1	3				OFF	ON	OFF		
Difficulty	4				ON	ON	OFF		
Difficulty	5(Average)				OFF	OFF	ON		
1910	6				ON	OFF	ON		
	7				OFF	ON	ON		
	8(Hardest)				ON	ON	ON		

#### Super Cobra DIPSW Setup

DIP SW	1	1	2	3	4	5	6	7	8
Continue	Yes	OFF	1336						
(Single Game Only)	No	ON	1.745		100				
110	. 4	30 1030	OFF						
Life	3	11 125	ON						

#### Hustler DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
Life	2	OFF							
Life	1	ON			100				

#### Space Panic DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
Entre Life	3000	OFF					3		
Extra Life	5000	ON							
116.	4		OFF						
Life	3		ON						

#### Super Breakout \* DIPSW Setup

	DIPS	W1	1	2	3	4	5	6	7	8
	. 70	Color	OFF	inn	1					
Mo	de	B&W	ON	toni						
		3		OFF						
Li	ie	5	100	ON	1111					
		Medium			OFF	OFF	W/			
Move :	Speed	Slow	Trac		ON	OFF				
Move.	specu	Fast		Indi	OFF	ON	000			
		Very Fast	100	1196	ON	ON				
		None	1 148	UNG	1		OFF	OFF	OFF	N,
	200P	200C 200D					ON	OFF	OFF	
	400P	300C 400D					OFF	ON	OFF	
Time*	600P	400C 600D					ON	ON	OFF	
Time"	900P	700C 800D					OFF	OFF	ON	
	1200	P 900C 1000D					ON	OFF	ON	
	1600	P 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
i ko isa	3Cars None 4Cars None	OFF	OFF						
Extra Life	3Cars 20K/80K 4Cars 20K	ON	OFF	1					
	3Cars 20K/120K 4Cars 40K	OFF	ON	- 1					
	3Cars 20K/100K 4Cars 40K	ON	ON						
1.16-	3	PALL A		OFF					
Life	4			ON		1.763			

# Arkanoid \* DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
0	No	OFF		Many	Trans.	Mary.			
Continue	Yes	ON			DN.	5			
Difficulty	Easy		OFF			1			
Difficulty	Hard	3	ON			Mali S			
Extra Life	20K 60K 60K			OFF					
Extra Life	20K			ON				0	
1:6-	3 3				OFF	THE P	1011	Caral	
Life	5		100000	1	ON	11111	-	75300	

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

## Qix DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
	5	OFF	OFF	1000	Mary N		line.	ik sen	
110	4	ON	OFF	L					
Life	3	OFF	ON			V <sub>10</sub>			
HIGHTO	2	ON	ON					Sept 1	
F-10/14/16/	60%			OFF	OFF	OFF			
Hackling.	65%			ON	OFF	OFF	0.00	17	16.
PARCE NO.	70%			OFF	ON	OFF		4	mia
Threshold	75%	238		ON	ON	OFF	NHI.		
Tireshold	80%	TON		OFF	OFF	ON	9/11		
NO NO	85%	100		ON	OFF	ON	arol.		
180 80	90%			OFF	ON	ON	OH UE		
	95%		S. I. S.	ON	ON	ON	SWILS	1 1011	
	60						OFF	OFF	OFF
1	55					SHRY	ON	OFF	OFF
	50						OFF	ON	OFF
Time	45						ON	ON	OFF
Time	40	10000	7		100		OFF	OFF	ON
	35						ON	OFF	ON
	30	144	1995	1	8		OFF	ON	ON
	25	1130	140	1	1327	100	ON	ON	ON

#### Juno First DIPSW Setup

DIP	SW1	1	2	3	4	5	6	7	8
	. 3	OFF	OFF					-	
V.10.	4	ON	OFF	-	surveril.		hez-omit		1
Life	5	OFF	ON	- Yhyl					31
	3	ON	ON	la de la constante de la const		JA	910.		
	1(Easiest)			OFF	OFF	OFF		100	And
	2		TVO	ON	OFF	OFF			
	3	17.10		OFF	ON	OFF	- Val	1000	
Difficulty	4	120		ON	ON	OFF	- Hale		
Difficulty	5	V C G		OFF	OFF	ON			
	. 6			ON	OFF	ON			
	7		1	OFF	ON	ON			
	8(Hardest)		garanting	ON	ON	ON			

# Xevious DIPSW Setup

DII	PSW1	1	2	3	4	5	6	7	8
	3	OFF	OFF		1-11-17				
Life	1	ON	OFF						
Life	2	OFF	ON		100				
	5	ON	ON		THE		10-17		
Flags Award	Yes			OFF		P. Harris			-
Bonus Life	No	7		ON					
	Normal	17181	T		OFF	OFF			-
Difficulty	Easy			ulmrej	ON	OFF			
Difficulty	Hard	194	177		OFF	ON			
	Hardest	1000	1534		ON	ON			
	20K60K60K/20K70K70K	3777	1325		Total de		OFF	OFF	OF
	10K40K40K / 10K50K50K			1734			ON	OFF	OF
	10K50K50K / 20K60K60K						OFF	ON	OF
	20K30K50K720K60K60K						ON	ON	OF
Extra Life	20K70K70K / 20K80K80K						OFF	OFF	ON
	20K30K30K/30K100K100K						ON	OFF	ON
	20K 60K/20K 80K	-00	11632		LU/J	71 1	OFF	ON	ON
Monte j	None		18		100		ON	ON	ON
DI	P SW2	1	2	3	4	5	6	7	8
	Set1	OFF	OFF						
M. Li. C.	Set2	ON	OFF						Consumer 1
Machine Set	Set3	OFF	ON		-				
	Super Xevious	ON	ON						

# Mr.Do's Castle DIPSW Setup

DIPSV	V1	1	2	3	4	5	6	7	8
	Easy	OFF	OFF	1 18	H-318	CONTRACT.	g phy	35.17	
Difficulty	Medium	ON	OFF						
Difficulty	Hard	OFF	ON	1	- amil	i mai	-	Same	411
	Hardest	ON	ON	1					
M 1: 6.	Set1	18 11		OFF	Tom't	15-4			
Machine Set	Set2		1	ON	coadi	court i			
Advance Level On	Off			1	OFF				711
Getting Diamand	On	1	4	1	ON				
Francisco I	Easy				-analy	OFF		THIS !	11.
Extra Life	Hard			1	إرارو	ON			
110 110 pm	3						OFF	OFF	
190 410 1414	4			In I	1000		ON	OFF	
Life	5	11111	(DIVI)		(mart)		OFF	ON	m
ZO NO	2	1 100			Colon		ON	ON	

# Moon Cresta DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
	30000	OFF	J.A.H.						
Extra Life	50000	ON	NAC.						
	Set 1	MC	OFF						
Machine Set	Set2	as divide	ON						

# Pinball Action DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
	Mode 1	OFF	OFF						
	Mode 2	ON	OFF						
*Control	Mode 3	OFF	ON			II.			-
re molmo	Mode4	ON	ON						
ON OPPIOR	3			1000		OFF	OFF		
on to be	4			000	M137	ON	OFF		
Life	5				10000	OFF	ON		
0 110 110	2					ON	ON	35 11 = 1/3	70

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
Mode4	LEFT	RIGHT	UP	DOWN

DII	PSW2	1	2	3	4	5	6	7	8
	70K 200K	OFF	OFF	OFF					
	70K 200K 1000K	ON	OFF	OFF					
	100K	OFF	ON	OFF					
	100K 300K	ON	ON	OFF		1177	910		
Extra Life	100K 300K 1000K	OFF	OFF	ON	1001				
	200K	ON	OFF	ON	LWIE				
	200K 1000K	OFF	ON	ON	711111				
	None	ON	ON	ON	te ships				
	Easy				OFF				
Extra	Hard				ON				
	Easy				TOO	OFF	OFF	2199	-
Difficulty	Medium					ON	OFF	100 =0	
(Flippers)	Hard				700	OFF	ON		
	Hardest				Traff	ON	ON		
1930:99	Easy							OFF	OFF
Difficulty	Medium							ON	OFF
(Outlans)	Hard							OFF	ON
	Hardest							ON	ON

# Scramble DIPSW Setup

DIPSY	V1	1	2	3	4	5	6	7	8
	3	OFF	OFF						
116	4	ON	OFF						
Life	5	OFF	ON		o mi				
	2	ON	ON						
Marking Co.	Set1	51		OFF					
Machine Set	Set2	40 4 4		ON		1	1 13		20

# \* Super Pacman DIPSW Setup

	DIPSW	/1		1	2	3	4	5	6	7	8
	0(No	ormal)	Commission of	OFF	OFF	OFF	OFF				
	1(Ea	asiest)	and coming	ON	OFF	OFF	OFF			1130	
	2	767		OFF	ON	OFF	OFF				
H-3.0	3			ON	ON	OFF	OFF			Service.	olanie.
NO	4		-	OFF	OFF	ON	OFF				
	5		atrial State of	ON	OFF	ON	OFF				L
	6(M	edium)		OFF	ON	ON	OFF				
Difficulty	7	# 4 / 1		ON	ON	ON	OFF	17/8	GTÖ		
Difficulty	8			OFF	OFF	OFF	ON		- 10		
	9			ON	OFF	OFF	ON			Minned	
	A			OFF	ON	OFF	ON				
	B(H	ardest)	Se Hori	ON	ON	OFF	ON				
	C(Ea	asy Auto	)	OFF	OFF	ON	ON				
	D(A	uto)		ON	OFF	ON	ON	14			
	E(A	uto)	7	OFF	ON	ON	ON	11/2		THE STATE OF	
	F(H	ard Auto	)	ON	ON	ON	ON	110			
	*30K 30K	100K 100K			den:		11463	OFF	OFF	OFF	
	*30K 30K	120K 80K	1	-	414	4-1		ON	OFF	OFF	
	*40K 30K	120K 120K						OFF	ON	OFF	
	*30K 30K	100K 80K	100K 80K			0		ON	ON	OFF	
Extra Life	*40K 30K	120K 100K	120K 100K					OFF	OFF	ON	11/
8 1	*30K 30K	120K	120K					ON	OFF	ON	
	*40K	120K	120K	144			0000	OFF	ON	ON	2.17
	30K	None		191	134		THE	ON	ON	ON	
Machine		Set1		1100	1 1/35		hilling	011	0.1		OFI
Set		Set2				- Constant		,		Sagary	ON

DIP	SW2	1	2	3	4	5	6	7	8
	3	OFF	OFF	1000				2779	
116.	1	ON	OFF	-					
Life	2	OFF	ON	Carrier .				1	
-	*5	ON	ON	arm.	8.1				

#### Bomb Jack DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
	3	OFF	OFF	1	4, 14				
	4	ON	OFF						
Life	5	OFF	ON		MAI			7	
	2	ON	ON	166					
	Easy	u diam		OFF	OFF				
	Medium		4	ON	OFF				
Bied Speed	Hard	S Marie		OFF	ON				
	Hardest	100		ON	ON	11.11	W S	ray	10
a Handard A I	Easy	i ning	TOTAL			OFF	OFF		10000
Enemies	Medium	TO THE	Tire			ON	OFF		
Number & Speed	Hard	I TAS	11300	The same		OFF	ON		
	Hardest	7 1 2	The state of			ON	ON		
	Easy	50 1157	11111					OFF	
Special Coin	Hard		Tally.					ON	

#### Shao-Lin's Road DIPSW Setup

DIP	SW1	1	2	3	4	5	6	7	8
	3	OFF	OFF						
	5	ON	OFF			egy) a car	4		
Life	7	OFF	ON		2		1		-
	2	ON	ON			shoot !			
	30K 70K	0	1991	OFF	OFF	d combi			
	40K 80K	Tox	T MC	ON	OFF				
Extra Life	40K	e Pesc	The last	OFF	ON				
	50K	Livio	Par	ON	ON	and b	4		
Total track	Easy		1			OFF	OFF		
Difficultur	Medium			7	4	ON	OFF		
Difficulty	Hard					OFF	ON		
	Hardest			1		ON	ON		

# King & Balloon DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
ELECT TRUCK	10000	OFF	OFF	10		WI I	IOE CA		
Jan Jan	12000	ON	OFF				WILL CO.		
Extra Life	15000	OFF	ON						
	None	ON	ON						
1.10	2			OFF					
Life	3			ON					
	Off	a manufacture			OFF		2.3840		
Speech	On	- 2	512.72	-	ON				

## 1943 DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1(Easiest)	OFF	OFF	OFF	OFF			-interior	
L XO	2	ON	OFF	OFF	OFF				
940	3	OFF	ON	OFF	OFF			Anyel	
	4	ON	ON	OFF	OFF				
and the same of th	5	OFF	OFF	ON	OFF				
	6	ON	OFF	ON	OFF			88 1	
8 1 7 1 8	7	OFF	ON	ON	OFF	1////			
Difficulty	8	ON	ON	ON	OFF				
Difficulty	9	OFF	OFF	OFF	ON			1111	
	10	ON	OFF	OFF	ON				
	11	OFF	ON	OFF	ON				
	12	ON	ON	OFF	ON	Min 1		A loss	
	13	OFF	OFF	ON	ON	10.			
	14	ON	OFF	ON	ON				
	15	OFF	ON	ON	ON				197
	16(Hardest)	ON	ON	ON	ON				
*2 Players Game	2 Credits		1.15		37733	OFF			
2 Flayers Game	1 Credit					ON			
Aller Carrier	Yes						OFF		
Allow Continue	No				7.77		ON		

<sup>· 2</sup>Players Mode is enbled only in "Upright/2 Controls" mode

#### Van-Van Car DIPSW Setup

DIP	SW1	1	2	3	4	5	6	7	8
	None	OFF	OFF						
F 116	20K 100K	ON	OFF	10 15			1-19	TTY	
Extra Life	40K 140K	OFF	ON			List	THE		
	70K 200K	ON	ON						
	3	4000		OFF	OFF				
110	4		BRIKE	ON	OFF				
Life	5		1100	OFF	ON				
	6	1		ON	ON				

#### Pacman Plus DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
	5	OFF	OFF						
1:6.	3	ON	OFF			17.			
Life	2	OFF	ON						
	1	ON	ON					and the same	
	None			OFF	OFF				
F 1/6	20000			ON	OFF				
Extra Life	15000			OFF	ON				
	10000			ON	ON				

Difficulty.	Easy	OFF		
Difficulty	Hard	ON		
CI V	Normal		OFF	
Ghost Name	Alternate		ON	
	Normal			OFF
Speed	Fast			ON

# Dig Dug 2 DIPSW Setup

DIPS	SW1	1	2	3	4	5	6	7	8
1.16.	3	OFF	100			M. S		-	
Life	5	ON	17.55						
	30K 80K		OFF	OFF					
F116-	30K 100K	1 256	ON	OFF					
Extra Life	30K 120K	1 200	OFF	ON		1000		3	
	30K 150K	F133	ON	ON					
1 16-1	Off	1993	120		OFF				
Level Select	On	100	HHI	111111	ON				

#### Amidar DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
	3		OFF	OFF	197				
180	4		ON	OFF	N				
Life	5	111111	OFF	ON	bolita	111 2/1			
	5		ON	ON					
Pater Life	30K 80K				OFF				
Extra Life	30K 70K				ON		HIG		

# Zaxxon DIPSW Setup

DIPS	W1	1	2	3	4	5	6	7	8
177-17-17	10000	OFF	OFF	1 3	10-				
Enter Life	30000	ON	OFF	-					
Extra Life	20000	OFF	ON			TV 1158			
	40000	ON	ON						
	3	16 [17]		OFF	OFF				
Life	- 5			ON	OFF				
	4	10	- V.	OFF	ON	SSI-A	14 14	PATES.	

# Pooyan DIPSW Setup

DIP	SW1	1	2	3	4	5	6	7	8
	3	OFF	OFF	3					
Life	- 4	ON	OFF						
Life	5	OFF	ON						
	5	ON	ON						
Extra Life	50K 80K			OFF					
Extra Life	30K 70K			ON				- 12/2	
1 1 1 1 1	1(Easiest)				OFF	OFF	OFF		
	2			1	ON	OFF	OFF		
	3	E THE			OFF	ON	OFF		
Difficulty	4	4 7 140	1711		ON	ON	OFF		
Difficulty	5(Average)	n Line			OFF	OFF	ON		
	6	o Lini	991		ON	OFF	ON		
	7		180		OFF	ON	ON		
	8(Hardest)	o i no	STILL		ON	ON	ON		

# Pleiads DIPSW Setup

DIPS	SW1	1	2	3	4	5	6	7	8
	3	OFF	OFF						
Life	4	ON	OFF						
Life	5	OFF	ON						
	6	ON	ON					7	
	3K 30K			OFF	OFF				
Extra Life	4K 40K	100	1111111	ON	OFF				
Extra Life	5K 50K			OFF	ON		dhint	Mulai	
	6K 60K			ON	ON				

# Gun. Smoke DIPSW Setup

DIP	SW1	1	2	3	4	5	6	7	8
	30K 100K 100K	OFF	OFF						
F 1 : 6-	30K 100K	ON	OFF						
Extra Life	30K 80K 80K	OFF	ON						
	30K 100K 150K	ON	ON						
	Easy			OFF	OFF			Line	
Diee:le	Normal		1	ON	OFF				
Difficulty	Hard			OFF	ON				
	Hardest			ON	ON				
Allow Continue	Yes					OFF		E TO	
Allow Continue	No					ON			
Mode .	3 Buttons						OFF		-
Mode .	1Button			-			ON		

## The Ead DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	8
	3	OFF	OFF						
1.16.	4	ON	OFF						
Life	5	OFF	ON						
	5	ON	ON					Canal Canal	

# 1943 Kai DIPSW Setup

DIP SW1		1	2	3	4	5	6	7	.8
110	1(Easiest)	OFF	OFF	OFF	OFF				
170	2	ON	OFF	OFF	OFF	100			
190	3	OFF	ON	OFF	OFF	100		7.00	
NO.	4	ON	ON	OFF	OFF	00-1			
100 100	5	OFF	OFF	ON	OFF				
ио	6	ON	OFF	ON	OFF				
MON	7	OFF	ON	ON	OFF	75			
Difficulty	8 .	ON	ON	ON	OFF				
	9	OFF	OFF	OFF	ON		1	571	
	10	ON	OFF	OFF	ON	7111	0.18		
	11	OFF	ON	OFF	ON		-	1	
	12	ON	ON	OFF	ON				
	13	OFF	OFF	ON	ON			WILL ?	
	14	ON	OFF	ON	ON				
	15	OFF	ON	ON	ON	7			
	16(Hardest)	ON	ON	ON	ON				
*2 Players Game	2 Credits					OFF		Liday	
	1 Credits					ON			
Allow Continue	Yes						OFF		
	No	100		44	1.71	1	ON	ST. 71	

<sup>• 2</sup>Players Mode is enabled only in "Upright/2 Controls" mode

## Congo Bongo DIPSW Setup

DIPS	SW1	1	2	3	4	5	6	7	8
1	10k	OFF	OFF	to the					
Extra Life	20k	ON	OFF	OFF OFF OFF OFF OFF OFF OFF ON OFF OFF O					
Extra Life	30k	OFF	ON					FF FF N	
	40k	ON	ON				1		
	Easy			OFF	OFF				
Difficulty	Medium	1		OFF ON ON OFF OFF ON OFF ON OFF OFF ON ON ON OFF OFF ON OFF ON OFF OFF ON					
Difficulty	Hard			OFF	OFF OFF ON ON OFF OFF ON OFF	OCT VIII	111		
	Hardest			ON	ON			DFF DEF DN	
30k	3					OFF	OFF	olt.	
	ON	OFF							
	5					OFF	ON		
	3					ON	ON		

# Jumping Jack DIPSW Setup

DIPSW1		1	2	3	4	5	6	7	8
Difficulty	Easy	OFF	OFF						
	Normal	ON	OFF	17					
Difficulty	Hard	OFF	ON						
	Hardest	ON	ON			10			
Party 176	Easy			OFF					
Extra Life	Hard			ON		-		7	
	3				OFF	OFF			
136	4				ON	OFF			
Life	5				OFF	ON			
	2				ON	ON			