

# MICPUNIC

OWNERS MANUAL — ATOMIC PUNK®



### VIDEO GAME OPERATOR:

Don't Get Involved In A Federal Crime. Don't Buy Or Operate Copy Or Unauthorized Boards In Your Games.





Every operator who buys or operates a counterfeit or unauthorized board (imported or domestic) is contributing to the end of our industry and committing a FEDERAL CRIME.

New criminal laws have recently been enacted that provide for maximum penalties of \$250,000 or five years in prison or both, per offense. <u>EACH GAME IS A SEPARATE OFFENSE</u>.





### WARNING oderal few provides severe civil and remnal possibles for the unauthorized neconstruction distribution or achieves or

criminal penalties for the unauthorized reproduction, distribution, or exhibition of copyrighted authorismal works and video games.

The Federal Bureau of Investigation investigates allegations of criminal

If you have any information about any unauthorized games in the United States, contact your local FBI or,

American Amusement Machine Association

205 The Strand Suite 3 Alexandria, Virginia 22314 (703) 548-8044

All information will be treated in confidence.

### **SAFETY**

The following topics should be carefully studied to insure maximum reliability and safety for both serviceman and customer. Shock Hazard: The high voltage present on the monitor may be very dangerous. Extreme caution must be used when working with or around the monitors. Be certain that the grounding strap is attached to the monitor frame. The picture tube in the monitor is also a hazard and should be handled with care. Do not strike, scratch, or subject the tube to more than moderate pressure as it may implode causing serious injury from flying glass. Be certain that the control panel, power supply monitor, and coin door are all properly grounded to the ground wire inside the line cord. Do not remove ground prong off plug end.

### **PARTS LIST**

1 - Bezel
1 - Plex Marquee
2 - Control Panel Overlays
1 - FCC Cage and Label
8 - I.D. Tags
1 - Manual
12 - Buttons
1 - JAMMA Cable
1 - 3rd & 4th Player Cables
1 - Marquee Art
1 - PCB
4 - 4 Way Joysticks & Hardware

### **IREM AMERICA CORPORATION®**

8333 154th Avenue NE Redmond, WA 98052 (206) 882-1093

### FOR SERVICE CONTACT:

Your authorized Irem America Corporation® Distributor or SUMMIT SERVICE 2274 University Avenue

2274 University Avenue St. Paul, MN 55114 (612) 645-9077

### **WARRANTY REPAIRS**

Irem America Corporation PCB have a 90 day warranty from date of shipment. This includes all failures except those caused by the installer such as miswiring.

All PCB must be returned by an authorized Irem America Corporation distributor. A Return Material Authorization must be obtained from Summit Service prior to returning material. A Purchase Order must also be given to Summit Service at this time. The package must be clearly marked with the RMA number.

ATOMIC PUNK® is protected by federal copyright laws and is the property of Irem America Corporation®. Any unauthorized versions of this game are illegal by federal law. AAMA protected stickers must be attached to the PCB. Please notify Irem America Corporation of any boards not having the AAMA seal.

### **IMPORTANT F.C.C. WARNING**

THIS EQUIPMENT COMPLIES WITH THE REQUIREMENTS IN PART 15 OF FCC RULES FOR A CLASS A COMPUTING DEVICE. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA MAY CAUSE UNACCEPTABLE INTERFERENCE OF RADIO AND TV RECEPTION REQUIRING THE OPERATOR TO TAKE WHATEVER STEPS ARE NECESSARY TO CORRECT THE INTERFERENCE. YOUR FCC COMPLIANCE LABEL IS ENCLOSED IN YOUR KIT AND MUST BE ATTACHED TO YOUR GAME PRIOR TO PLACING ON LOCATION. THIS LABEL INDICATES YOUR GAME WAS DESIGNED TO MEET FCC STANDARDS 47CFR15.19. WE ADVISE USING STAPLES IF NECESSARY TO MAKE SURE THE LABEL STAYS ON.

### **DANGER**

The isolation transformer must be used with the monitor and power supply.

This game must be equipped with a three wire 110 volt plug for safety. Under no circumstance remove the ground plug.

### **DANGER**

This game is designed with a JAMMA 56 pin connector. This plug is one of the finest operator friendly features in our industry today. What this means to you is that:

- 1) 1, 2, A, B, 27, 28, e and f are grounded
- 2) 3. 4. C and D are +5 volts
- 3) 5 and E are -5 volts
- 4) 6 and F are +12 volts

Also, all video and joystick functions are always in the same place. Once a cabinet is wired for JAMMA, it is easily changed from game to game.

Many older games such as Pac Man®, etc., have the power supply on the board. This will not work!!! Only a JAMMA connector with proper voltage will work. Irem America Corporation® recommends using an 11 or 15 amp switching power supply with **Atomic Punk**®.

### **MONITORS**

**Atomic Punk®** is designed to be operated with a horizontal raster scan monitor with negative sync (RGB). This means **Atomic Punk®** will not work with any X-Y (Tempest, Space Dual, Star Trec), etc. An isolation transformer must be used in conjunction with the monitor. This is for your safety. The monitor also utilizes extremely high voltages. The monitor may also retain a charge for an extended period of time. Safety goggles must be worn while removing or replacing the monitor.

It is highly recommended that the monitor is verified good before the new **Atomic Punk**® kit is installed in your new and or rebuilt cabinet.

### INSTALLATION OF KIT IN USED CABINET

### To Disassemble:

- 1. Open back door and remove old board set and power supply, if you are using a new switching power supply.
- 2. Remove marquee glass and monitor glass.
- 3. Remove control panel and set aside.
- 4. Remove old wire harness, leaving 110 volt wiring intact. Also, leave the grounding straps to the monitor, coin door, control panel, and power supply intact.

### Installation:

- 1. Mount the board set on the side panel of the cabinet as close to the middle of the game as possible (approximately 10-12" off bottom).
  - NOTE: Do not mount board directly below control or any vents or cracks so that liquids may seep on to the board. Do not forget about coins that may drop on to the board. Also, mount the board with edge connector facing up.
- 2. Mount the power supply on the bottom of the cabinet with connectors facing the rear of the cabinet. An optional mounting might be on the side panel just below the board set, connector to rear.
- 3. If the game does not have an isolation transformer, you must protect your customers and your game. Install one between the 110 volt line and your monitor/power supply.
- 4. Place the provided JAMMA wiring harness on the board. Connect the +5, +12, -5, and ground wires to the corresponding lugs on the power supply, connecting all the wires. If you don't, you will probably burn the board connector.
- 5. Run a wire from +12 volts to the coin door lights. Run a wire from +12 volts to the coin counters. This completes the power requirements.
- 6. Connect the Audio (+) and Audio (-) to the speaker.
- 7. Connect the video red, green, blue, ground, and sync to the corresponding wires on the monitor. If the monitor is not a negative composite sync, see sync modifications chart.
- 8. Cut the marquee to size. Replace the marquee lamp, if needed. Install the marquee panel.
- 9. Connect the coin 1 and coin 2 wires to the coin switches. Connect the coin counter 1 and coin counter 2 wires to the coin counters.

NOTE: If you only have one coin counter, see coin counter diagram. It will not matter if the coin counters are only rated at 6 volts, as the pulse is not long enough to burn out the counter.

10. Disassemble the control panel of all the hardware. Do not remove the old panel overlay. Determine where to place the new joystick and buttons if they must be repositioned. Then, cut new holes.

NOTE: If you are going to use plexiglass over the control panel, we suggest that you use a good 1/6" polycarbonate with a scratch resistant coating. We recommend GENERAL ELECTRIC LEXAN MR5 with margard or TUFFAK CM-2. These do not crack or break with abuse.

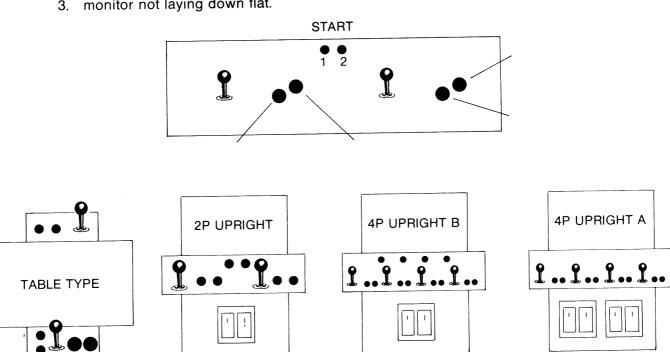
Cut and drill plex as needed. Remove the old control panel overlay carefully and apply the new overlay on top of the old glue. Use an Exacto knife to cut out any button or bolt holes. Apply necessary decals over appropriate buttons. Now assemble the control panel.

- 11. Bolt the control panel to the cabinet. Now connect the appropriate wires to the correct switches. Connect the 1 player and 2 player start wires.
- 12. Be sure to install the FCC cage to avoid unnecessary radio frequency interference.
- 13. Power up the game. Look over your installation for errors, and then apply power, listening for unusual sounds. Check for smoke or sparks. If everything is okay, wire tie all wires to form a nice, neat wiring harness. Clean the cabinet inside and out. Measure the +5 volts on the furthest point from the edge connector and adjust 5 volts to 5.05 volts. Use a tinted plex over the monitor if there are burns in the screen. We suggest bronze or grey tinted plex. Touch up the cabinet with fresh paint, and then repair all cabinet dents or chips, using an auto body product called Duraglass. This is similar to bondo. You can consult your local auto body shop or auto parts supplier for this product, as well as advice on how to use it.
- 14. Be sure your ground plug is good. All metal exposed to the player must be grounded (coin door, control panel, etc.) including all metal inside exposed.

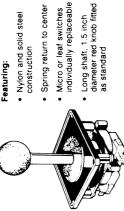
### **ATOMIC PUNK®**

Irem America Corporation recommends installing your new ATOMIC PUNK kit in only a new or refurbished cabinet. Installing ATOMIC PUNK in an older cabinet will result in lower earnings. The cabinet should be as follows:

- 1. horizontal monitor
- 2. 11 amp or larger power supply
- 3. monitor not laying down flat.

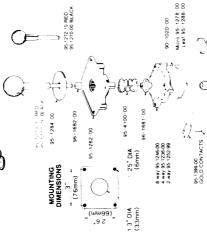


## SPRING ACTION JOYSTICK



Long shaft, 1.5 inch diameter red knob fitted as standard





Switch Bracket Screw M/S screw M/S screw E-Ring Microswitch B-way bracket 4-way bracket
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90-1012-00 95-0733-01 95-4115-00 GOLD

95-0574-00

96-1690-00

90-1012-00

1270-16 Black 1.5" knob & shaft 1278-00 Microswitch protector 95-1262-00 Hub 95-1270-00 Black 1 25" kn 95-1272-10 Red 1 25" kn 95-1270-10 Red 1 5" knol

## HAPP CONTROLS, inc.

106 Garlisch Elk Grove, Illinois 60007 Phone: (312) 593-6130 Fax: (312) 593-6137 Telex: 297249 CONTROLS UR

	95-1288-00	95-1288-00 Leaf switch protector	
£	95-1284-00	95-1284-00 2" Dia washer	
, Ke	95.1399-00	Leaf switch, side mount	
.03		GOLD contacts	
i di	95.4100-00	850 dra spring	
	96-1680-00	Actuator micro/switch	
" knoh & shaft	96-1681-00	2.5top	
knob & snaft	96-1682-00	Pivot cone	
knob & shaft			
			Constant of
		SPRING ACTIO	CTIO
		50-5308-02 8-we	8
		50-5304-02 4-wa	4·w
		4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,

SPRING AC	TION	SPRING ACTION JOYSTICK	Price per ea	1-24	25+
50-5308-02	8-way	microswitch	50-5308-02 8-way microswitch joystick 1.25" knob	12 95	66
50-5304-02	4-way	microswitch	50-5304-02 4-way microswitch joystick 1.25" knob	12 95	66
50-4308-02	8-way	leaf switch jo	50-4308-02 8-way leaf switch joystick 1.25" knob	12.95	6.6
50-4304-02	4-way	leaf switch jo	50-4304-02 4-way leaf switch joystick 1.25" knob	12 95	6
50-5508-02	8-way	microswitch	50-5508-02 8-way microswitch joystick 1.5" knob	12.95	6
50-5504-02	4-way	microswitch	50-5504-02 4-way microswitch joystick 1.5" knob	12.95	9.95
50-4508-02	8-way	leaf switch p	50-4508-02 8-way leaf switch joystick 1.5" knob	12.95	9.95
50.4504.02	4-way	leaf switch g	50.4504.02 4-way leaf switch joystick 1.5" knob	12.95	6

---- HAPP CONTROLS-

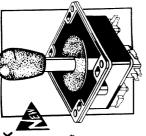
### SUPER JOYSTICK Featuring:

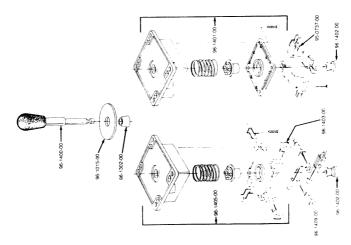
Nylon and solid steel construction

Micro or leaf switches individually replaceable

Unique handle design

 Spring return to center Rugged actuator for long life Change actuation to 4-way or 8-way simply by flipping actuator over





## HAPP CONTROLS, inc.

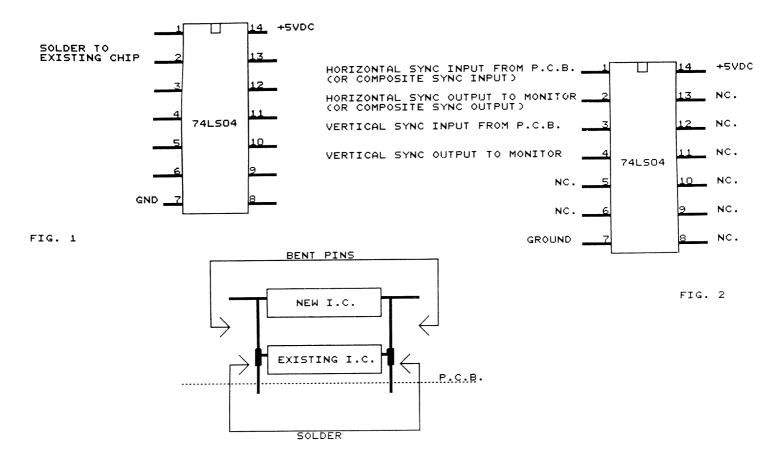
106 Garlisch Elk Grove, Illinois 60007 Phone: (312) 593-6130 Fax: (312) 593-6137 Telex: 297249 CONTROLS UR

	1.24 25+	15.95 13.95	witch 15.95 13.95
96-1400-00 Chrome shaft & knop 96-140-00 96-1400-00 Chrome shaft & knop 96-1409-00 96-1105-00 Portion shaft of the shape o	SUPER JOYSTICK Price per ea	50-6084-00 Super joystick 4-way 8-way	microswitch 50-6085-00 Super joystick 4-way 8-way leafswitch

### 1. Monitor Sync

If your monitor does not have dual polarity positions for sync, you may use on of the following methods to get your game going.

CURE 1: Install a simple one I.C. Circuit on your logic board. This I.C. may be "piggy backed" on to another 7404 series chip for power by bending up all but the two power pins so that they are parallel to the top surface of the new I.C. and then connecting the power pins only to the existing chip. (See Fig. 1) Next connect the sync wires as shown in Fig. 2. (Note: Figure 2 shows a hookup for either composite or separate syncs.)



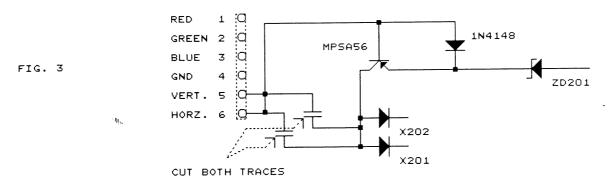
CURE 2: Used for Wells-Gardner Video-Sync boards with positive sync connections only. (Vertical mount board 85x14 OB.)

Cut the traces on the solder side of the board between input pins 5 & 6 to the unbanded (anode) ends of diodes X201 & X202.

Add MPSA 56 transistor as follows:

Collector to anode leads of diodes X201 & X202. Base pins 5 & 6 of the video input connector. Emitter to cathode (banded) lead of zener diode ZD201.

Insert a 1N4148 diode - cathode to the emitter of the MPSA56 and anode to the base. (See Fig. 3)



### 2. Horizontal Tearing

CAUSE: The negative sync signal of most logic sets are slightly different than the GO7-CB0 monitor negative sync inputs. The result of this mismatch is a horizontal "wave" or "curl".

CURE 1: On the monitor deflection board, replace C303 with a 10uf 25V radial lead capacitor with the positive lead towards the collector of X305. (CAUTION: be sure to check this step as the original cap is not polarized.) Then replace C501 with the cap removed from the C303 location.

CURE 2: Connect 1N4148 fast-switching diodes across both the positive and negative sync inputs to the monitor. (See Fig. 4) NOTE: Both diodes must be installed or you will not have vertical stability.

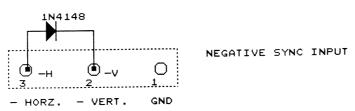
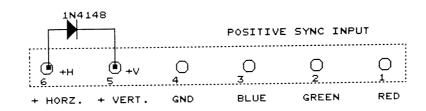


FIG. 4



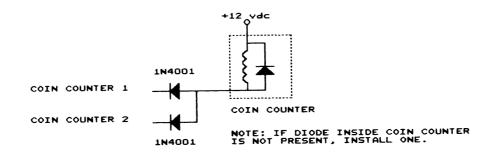
CURE 3: Join negative sync inputs J2 and J3 together with a jumper. Locate W102 and install a jumper from W102 to either J2 or J3.

CURE 4: For Wells-Gardner K4600 series monitors.

Replace C356 (4 7uf 25V) on the Horizontal/vertical board (vertically mounted board nearest the flyback transformer) and center the horizontal hold pot. Turn L351 for the best horizontal stability and fine-tune with the horizontal width pot.

### **COIN COUNTER DIAGRAM**

If only one coin counter is to be used install two diodes in the following manner:



### DIP-1

)IP-1									
FUNCTION	SWITCH	1	2	3	4	5	6	7	8
NUMBER OF PLAYER	3	OFF	OFF						
NUMBER OF TEXTER	2	ON	OFF						
	4	OFF	ON						
	5	ON	ON						
DIFFICULTY	NORMAL*			OFF	OFF				
	EASY*	]		ON	OFF				
	HARD			OFF	ON				
	VERY HARD			ON	ON				
CONTINUATION MODE	YES	_					OFF	ļ	
	NO				-		ON		
SOUND IN DEMO	NO							OFF	
	YES				<u> </u>			ON	055
DIAGNOSTIC TEST	NO								OFF
	YES					]			ON

### DIP-2

P-2		SWITCH	.		0		5	6	7	8
FUNC	TION	SWITCH	1	2	3	4	3	-		
FILP PI	CTURE	NO	OFF							
FILE	STOTIL	YES	ON							
CABINE	T TVPF	4P UPRIGHT A		OFF	OFF					
CADINE		4P UPRIGHT B		OFF	ON					
		2P UPRIGHT		ON 🙍	OFF					
		2P TABLE TYPE		ON	ON					055
		1 COIN 1 PLAY				OFF	OFF	OFF A	OFF	OFF
		2 COINS 1 PLAY				OFF	ON	OFF	OFF	OFF
		3 COINS 1 PLAY				OFF	OFF	ON	OFF	OFF
		4 COINS 1 PLAY				OFF	ON	ON	OFF	OFF
		5 COINS 1 PLAY				OFF	OFF	OFF	ON	OFF
		6 COINS 1 PLAY				OFF	ON	OFF	ON	OFF
MOI	DE 1	1 COIN 2 PLAYS				OFF	OFF	ON	ON	OFF
		1 COIN 3 PLAYS				OFF	ON	ON	ON	OFF
		1 COIN 4 PLAYS				OFF	OFF	OFF	OFF	ON
		1 COIN 5 PLAYS				OFF	ON	OFF	OFF	ON
		1 COIN 6 PLAYS				OFF	OFF	ON	OFF	ON
		2 COINS 3 PLAYS				OFF	ON	ON	OFF	ON
		3 COINS 2 PLAYS				OFF	OFF	OFF	ON	ON
		4 COINS 3 PLAYS				OFF	ON	OFF	ON	ON
		*CONTINUATION COIN				OFF	OFF	ON	ON	ON
		FREE PLAY				OFF	ON	ON	ON	ON
	COIN	1 COIN 1 PLAY				ON	OFF	OFF	_	
	MECH.	2 COINS 1 PLAY				ON	ON	OFF	4	
	(A)	3 COINS 1 PLAY				ON	OFF	ON		
MODE 0		5 COINS 1 PLAY				ON	ON	ON		
MODE 2	COIN	1 COIN 2 PLAY				ON	_		OFF	OF
	MECH.	1 COIN 3 PLAYS				ON	_		ON	OF
	(B)	1 COIN 5 PLAYS				ON	_		OFF	10
	\_,	1 COIN 6 PLAYS				ON			ON	10

- N.B. \* Please operate Dip Switches with Power Switch OFF; otherwise they don't work.
- \* Select Coin Mode 1 in case a single coin selector or two selectors for coins of the same value are used.
- \* Select Coin Mode 2 in case two coin selectors of coins of different values are used.
- \* DIFFICULTY SETTING Normal Difficulty setting is recommended for 2 player and Easy difficulty setting is recommended for 4 player operation.
- \* CONTINUATION COIN makes the game start with 2 coins, and makes the game continue with 1 coin. This mode does not allow any other coin modes to be set.

## KD/DYNAMO — UNIVERSAL VIDEO WIRING

### 56 PIN EDGE CONN. PIN-OUT CHART (JAMMA COMPATIBLE)

**ATOMIC PUNK®** 

	JAMMA EDGE CONNECTOR/CABLE	DGE CO	NNECTO	R/CABLE				•
COM	COMPONENT SIDE			SOLDER SIDE	ш		COM	COMPONENT SIDE
FUNCTION	COLOR	POS	POS	COLOR	FUNCTION		FUNCTION	COLOR
GROUND	BLK	-	4	BLK	GROUND		GROUND	BLK
GROUND	BLK	2	В	BLK	GROUND		GROUND	BLK
+5 VOLTS	RED	3	O	RED	+5 VOLTS		+5 VOLTS	RED
+5 VOLTS	RED	4	٥	RED	+5 VOLTS		+5 VOLTS	RED
-5 VOLTS	BRN	5	Ш	BRN	-5 VOLTS		-5 VOLTS	WHITE
+12 VOLTS	BLU	9	ш	BLU	+12 VOLTS		+12 VOLTS	YELLOW
PREVENT KEY		7	I		PREVENT KEY		KEY	
COIN COUNTER #1	BLU/BRN	8	7	WHT/PUR	COIN COUNTER #2		COIN COUNTER #1	BRN
GROUND	BLACK	6	ᅩ	BLACK	GROUND		COIN LOCK OUT 1	RED
AUDIO POS +	WHT/BLK	10		BLK	AUDIO NEG -		SP (+)	WHT
		11	Σ				N.C.	BLUE-OPTION
VIDEO RED	RED	12	z	GRN	VIDEO GRN		VIDEO RED	RED
VIDEO BLU	BLU	13	<u>a</u>	WHT	VIDEO SYNC*		VIDEO BLU	BLU
VIDEO GND	BLK	14	Œ	BRN/WHT	SERVICE SWITCH		VIDEO GND	BLK
TEST	YEL	15	S	WHT/BRN			TEST SW.	BROWN
COIN INPUT 1	WHT/YEL	16	-	GRN/YEL	COIN INPUT 2		COIN SW. 1	WHITE
**************************************	PNK/的ボー	17	ח	ARED/BEX	WHLEBLE	г	START 1	GRAY
1 P BOWNUP	548/849 548/846	18	>	BRINGE OF	2 P UP	*	1 P UP	VIOLET
1 P DOWN	BRIV OHET	19	3	STOWN H	2 P DOWN		1 P DOWN	BLUE
1 P LEFT	TH-USANASOEA	50	×	SOCIONAL STATES	2 P LEFT		1 P LEFT	GREEN
1 P RIGHT	PER CARCON	21	٨	why GRG	2 P RIGHT		· 1 P RIGHT	YELLOW
1 P BOMB	04844AFD	22	2	经建筑	2 P BOMB	_	1 P PUSH 1	ORANGE

COIN COUNTER #2

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ΚĒΥ

+12 VOLTS

WHITE YELLOW

GROUND

GROUND

뽔 R,

4

ω O ш u. I 7

2 က 4 S 9 1

+5 VOLTS +5 VOLTS -5 VOLTS

RED RED

FUNCTION

COLOR

Pos

Pos

SOLDER SIDE

GROUND GROUND

BLK

28

27

BLK BLK

GROUND GROUND \* Video sync composite negative. \* ZP UPRIGHT WITH \* Use 4-way joysticks. \* Use 4-way joysticks.

COIN LOCK OUT 2 SERVICE SWITCH VIDEO SYNC\* 2 P PUSH 2 2 P PUSH 3 2 P PUSH 1 COIN SW. 2 VIDEO GRN 2 P DOWN 2 P RIGHT GROUND GROUND START 2 , O 2 P UP 2 P LEFT TILT SW. SP (-) Š Ċ O OP.-BRN/BLACK OP.-BLU/BLACK WHITE/GREEN WHT/ORANGE YELLOW/WHT WHITE/VIOLET WHT/YELLOW WHT/BROWN WHITE/BLUE BLK-OPTION WHITE/GRAY GREEN/WHT RED/BLACK WHT/RED WHT/BLK GRAY B K GRN ပ σ Φ ≷ > ۵  $\supset$ > × ب Σ z ۵ α S ¥ 56 28 22 23 24 25 27 18 9 20 9 = 7 5 4 15 16 17 2 6 BLK-OPTION BLUE-OPTION BLUE/WHT RED/WHT ORANGE BROWN YELLOW WHITE VIOLET GREEN BROWN BLUE \* Video sync composite negative GRAY RED BĽK MH RED BLU ВŖ RED 1 P PUSH 2 1 P PUSH 3 GROUND GROUND S Š

> CONTROL BOMB 2 P REMOTE

> > 123 BRN/GRN

BIK

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24

YEL/BLK

25 56

a

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ORC/GRV

CONTROL BOMB 1 P REMOTE

\*

- 4-way joysticks, each with two buttons, and a horizontally positioned monitor are required.
- When the game is set 4P UPRIGHT A (No. 2 and No. 3 of DIP SW 2 OFF), only the coin mode 1 (No. 4 of DIP SW 2 OFF) can be used.
- When the game is set 4P UPRIGHT B (No. 2 of DIP SW 2 OFF and No. 3 of DIP SW 2 ON), 2P UPRIGHT (No. 2 of DIP SW 2 ON and No. 3 of DIP SW 3 OFF) or 2P TABLE TYPE (No. 2 and No. 3 of DIP SW 2 ON), either coin mode 1 (No. 4 of DIP SW 2 OFF) or coin mode 2 (No. 4 of DIP SW 2 ON) can be used.
- 1-COIN CONTINUE is the mode which starts the game with 2 coins but continues it with 1 coin alone. When this mode is set, no other coin modes can be set. For two players, 4 coins to start, 2 coins to continue.
- When the game is set 4P UPRIGHT A, each coin selector can be used independently.
- When the game is set 4P UPRIGHT B, a coin selector can be used as a mutual.

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

CN 4

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

