

Instruction Manual





Invites you to use
our PHONE or FAX numbers
for SERVICE INFORMATION concerning this game.

Call us for prompt, courteous answers
to your problems.



AMERICAN TECHNOS, INC.
19200 Stevens Creek Blvd., Suite 120, Cupertino, CA 95014

CUSTOMER SERVICE REPRESENTATIVE

Phone (408) 996-1877

Fax (408) 996-8736

GENERAL INFORMATION

CONTENTS OF KIT

<u>Description</u>	<u>Quantity</u>
Shadow Force printed circuit board	1
Shadow Force game marquee	1
Shadow Force monitor card	1
Shadow Force control panel overlay	1
Standard JAMMA harness	1
Extra player harness	1
8-way joysticks	2
Red (action) push-buttons	4
White (action) push-buttons	4
Blue (action) push-buttons	2
Yellow (action) push-buttons	2
Game start buttons	2
FCC Compliance Sticker	1
Service Manual	1

FORMAT & INSTALLATION REQUIREMENTS

Shadow Force is offered as a 2-player conversion kit. The conversion kit includes all necessary components to convert most existing game cabinets.

Following are the electrical and mechanical requirements to install the Shadow Force conversion kit:

- A. Monitor: horizontal mount, RGB, negative composite sync.
- B. Power Supply: +5VDC @ 3 AMPRE and +12 VDC @ 1 AMPRE.
It is very important that your power supply is in top operating condition.
- C. Control Panel: Make certain that you allow yourself the necessary space for one joystick per player and six action buttons per player.
(Please follow layout diagram.)

WARRANTY AND RETURN POLICY

REPLACEMENT PARTS

AMERICAN TECHNOS maintains a stock of replacement parts for our products. When placing an order for parts, please supply a complete description of the items, quantity required, P.O. number, and shipping information. We attempt to ship orders the day they are received. Orders received after 12:00 noon will ship the following work day. We do not have a minimum order requirement at this time, however, we certainly appreciate your efforts to consolidate your orders whenever possible.

Payment Terms are NET 30.

RETURN MATERIAL AUTHORIZATION

Material can be returned to AMERICAN TECHNOS only in the following situations:

1. Parts -- return for credit. A parts order was processed incorrectly, i.e.; wrong items were shipped, wrong quantity was shipped, etc.
2. PCB -- return for credit. A PCB is being returned for credit to satisfy an Advance Exchange transaction.
3. Other -- parts returned for engineering analysis, etc., only with prior consent of Customer Service of Sales departments.

To obtain a Return Material Authorization, please contact AMERICAN TECHNOS' Customer Service department. Describe the transaction and request RMA number. The outside of the package must be clearly marked with the transaction RMA number. Packages not displaying an RMA number will be returned un-opened.

WARRANTY REPAIRS

During the initial 90-day warranty, customers whose accounts are current are eligible for an Advance Exchange PCB. When calling for an Advance Exchange PCB, please supply a complete description of the item needed, game serial number for warranty verification, P.O. number, and shipping information. You will be issued an RMA number for the return of the defective PCB.

Terms for Advance Exchanges are NET 15. If the defective PCB is not returned within 30 days, no additional Advance Exchange will be issued until the offending PCB is returned, or the invoice is paid in full. If the PCB is not returned until after 90 days, the warranty will be voided, and the customer will be liable for all repair charges.

It is our goal to constantly improve and better our service to you. Your cooperation with the above stated policy will help us greatly to reach this goal. If you have any comments or questions, please telephone our Customer Service department. We will make every attempt to tailor our services accordingly.

LIMITED WARRANTY

AMERICAN TECHNOS, INC. ("Seller"), warrants only to the initial purchaser of its products that the items listed below are free from defects in material and workmanship under normal use and service for the warranty period specified:

- | | |
|---------------------------|---------|
| A. Printed Circuit Boards | 60 days |
| B. Electronic Components | 30 days |
| C. Television Monitors | 30 days |

No other parts of the Seller's products are warrantied.

Warranty periods are effective from the initial date of shipment from the Seller to its authorized distributors.

Seller's sole liability shall be, at its option, to repair or replace products which are returned to Seller during the warranty periods specified, provided:

- A. Seller is notified promptly upon discovery by buyer that the stated products are defective.
- B. Such products are properly packaged and then returned, prepaid to Seller's plant.

This warranty does not apply to any parts damaged during shipping or handling, or due to improper installation or usage, or alteration. In no event shall Seller be liable for any anticipated profits, loss of profits, loss of use, incidental or consequential damages or any other losses incurred by the customer in connection with the purchase of AMERICAN TECHNOS, INC. product.

Warranty Disclaimer

Except as specifically provided in a written contract between seller and purchaser, there are no other warranties, expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose.

DIP SWITCH SETTINGS (SHADOW FORCE)

DIP SWITCH 1								
1	2	3	4	5	6	7	8	ITEM
Off								* Not Used
								* Coin-1 and 2
	Off	Off						1 Coin 1 Play
	On	Off						1 Coin 2 Play
	Off	On						2 Coin 1 Play
	On	On						3 Coin 1 Play
								* Continue Price
			Off					W/O Continue Price
			On					With Continue Price
								* Free Play
				Off				Normal
				On				Free Play
								* Screen Invert
					Off			Normal
					On			Invert
								* Sound for Demonstration
						Off		Sound
						On		No Sound
								* Test Mode
							Off	Game Mode
							On	Test Mode

1. Without continue price, the continue price for the game is the same as the starting price for the game.
2. With continue price, the continue price for the game is always one coin.

DIP SWITCH SETTINGS (SHADOW FORCE)

DIP SWITCH 2								
1	2	3	4	5	6	7	8	ITEM
								* Degree of Difficulty
Off	Off							Normal
On	Off							Easy
Off	On							Advanced
On	On							Expert
								* Clear Stage Power Up
		Off	Off					0%
		On	Off					100%
		Off	On					50%
		On	On					25%
				Off	Off	Off	Off	* Not Used

DIP SWITCH 3 DON'T TOUCH								
1	2	3	4	5	6	7	8	ITEM
Off	Off	Off						* Not Used
			On	On	On			* Don't Touch
						Off	Off	* Not Used

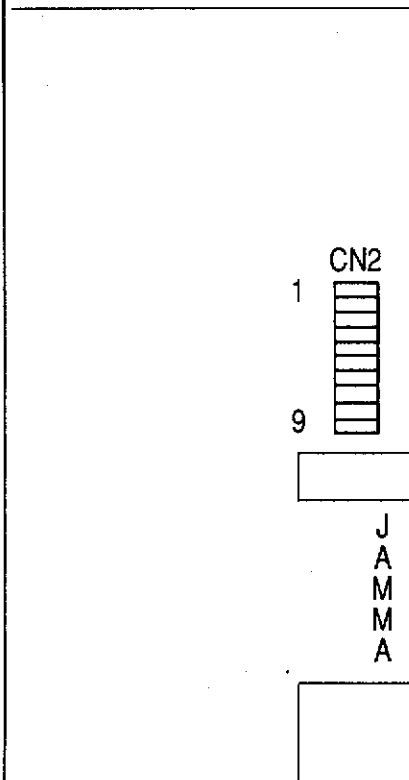
CONNECTING DIAGRAM

(CN 1)

SOLDER SIDE		PARTS SIDE	
GND	A	1	GND
GND	B	2	GND
+ 5 V	C	3	+ 5 V
+ 5 V	D	4	+ 5 V
N / C	E	5	N / C
+ 12 V	F	6	+ 12 V
	H	7	
Coin Counter 2	J	8	Coin Counter 1
N / C	K	9	N / C
Speaker (-)	L	10	Speaker (+)
N / C	M	11	N / C
Video Green	N	12	Video Red
Video Sync	P	13	Video Blue
Service	R	14	Video GND
N / C	S	15	N / C
Coin 2	T	16	Coin 1
2P Start	U	17	1P Start
2P Up	V	18	1P Up
2P Down	W	19	1P Down
2P Left	X	20	1P Left
2P Right	Y	21	1P Right
2P Push S/W 1 (Punch)	Z	22	1P Push S/W 1 (Punch)
2P Push S/W 2 (Kick)	a	23	1P Push S/W 2 (Kick)
2P Push S/W 3 (Jump)	b	24	1P Push S/W 3 (Jump)
N / C	c	25	N / C
N / C	d	26	N / C
GND	e	27	GND
GND	f	28	GND

(CN 2)

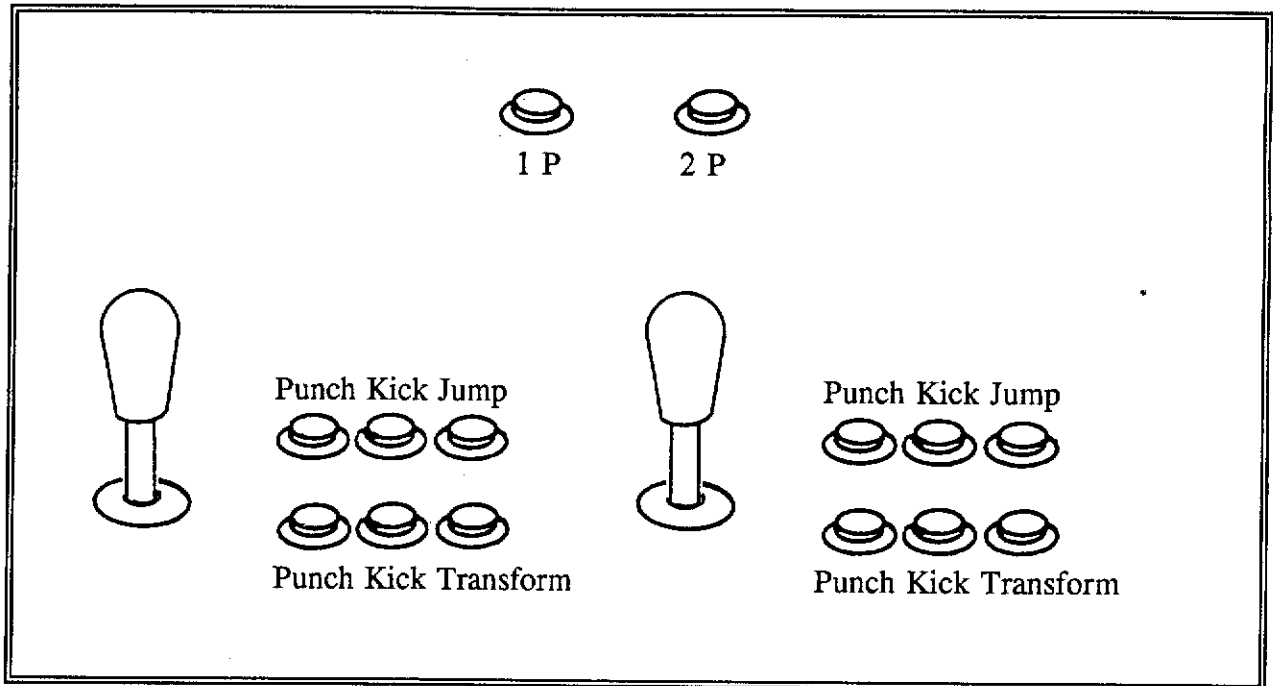
G N D	1
N / C	2
N / C	3
2P S/W 6 (Transform)	4
2P S/W 5 (Kick)	5
2P S/W 4 (Punch)	6
1P S/W 6 (Transform)	7
1P S/W 5 (Kick)	8
1P S/W 4 (Punch)	9



**INSTRUCTIONS FOR
CONNECTING EXTRA
BUTTON HARNESS:**

Simply follow the above wiring instructions carefully to connect the extra buttons.

CONTROL PANEL LAYOUT (SHADOW FORCE)



Punch - Red Buttons (4)

Kick - White Buttons (4)

Jump - Blue Buttons (2)

Transform - Yellow Buttons (2)

* It is very important to follow the above control panel layout, making certain to place the colored buttons in their proper position.

WARNINGS

WARNING

This game must be grounded, failure to do so may result in destruction to electronic components.

Warning: This equipment generates, uses, and can radiate radio frequency energy and if not used in accordance with the instructions manual, may cause interference to radio communications. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measure may be required to correct the inconvenience.



“WINNERS DON'T USE DRUGS”
William S. Sessions, Director, FBI

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The game play, all graphic designs, this technical manual, its accompanying diagrams, and the display manual are protected by the law.

You may void the game warranty if you do any of the following:

- Substitute non-AMERICAN TECHNOS electronic parts in the game.
- Modify or alter any circuits in the game by using kits or parts not supplied by AMERICAN TECHNOS.

FCC LABEL REQUIREMENT

DEAR KIT PURCHASER:

Enclosed in your kit is an FCC Compliance Label that you must place on the cabinet immediately after your conversion is complete and prior to placing the kit game on location. The FCC label indicates that the kit was manufactured to meet FCC standards.

The failure to display the FCC label is a violation of FCC47 CFR 15.19 and could result in your being fined up to \$2,000 per violation per day.

If you have any questions, contact your manufacturer.



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