

SNK GAME CONVERSION KIT

INSTALLATION MANUAL

Ikari III, The Rescue

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1. GENERAL INFORMATION

a. Introduction.

Thank you for purchasing this SNK Game Conversion Kit. It contains all of the materials required to update an existing game cabinet to a fresh new game, thus extending the profitable life of your equipment. Before going any further, please check the contents of this kit against the List of Materials found in this manual to ensure all of the required materials are present. Also, check the Game Requirements section to make certain the cabinet you intend to convert is acceptable.

WARNING: This manual assumes that you have an electronics background and experience installing video game conversion kits. If you do not, you should consider having your dealer install the kit for you. There is a risk of electrocution to the installer and the player if the kit is not installed properly. In addition, the Game PCB consists of sensitive (expensive!) electronic circuits. All it takes is one mistake to **TOTALLY DESTROY THE PCB SET!** By the way, totally destroying the PCB set will totally void your warranty...

b. List of Materials.

<u>QTY</u>	<u>DESCRIPTION</u>	<u>OK</u>
1	PCB set, Ikari III	<input type="checkbox"/>
1	Control Panel Overlay	<input type="checkbox"/>
1	Logo Plex	<input type="checkbox"/>
2	Side Decals	<input type="checkbox"/>
1	Jamma standard wire harness	<input type="checkbox"/>
2	Joystick, 8-way, 12 position Rotary	<input type="checkbox"/>
2	13 Pin Rotary Harness	<input type="checkbox"/>
1	Joystick Knob Setting tool	<input type="checkbox"/>
3	Pushbutton, Yellow	<input type="checkbox"/>
3	Pushbutton, Red	<input type="checkbox"/>
1	Pushbutton, 1p start	<input type="checkbox"/>
1	Pushbutton, 2p start	<input type="checkbox"/>
1	FCC sticker	<input type="checkbox"/>
1	Set, Pushbutton function labels	<input type="checkbox"/>
1	Manual, Installation & Service	<input type="checkbox"/>

c. Game Requirements.

This game to be converted requires the following mechanical and electrical specifications:

- o MONITOR: Horizontal mount, RGB, negative composite sync.
- o CONTROL PANEL: Space available for two joysticks, 6 control pushbuttons, and two player start pushbuttons.
- o COIN MECHANISMS: The game must have 2 separate coin slots and mechanisms, the Left player uses Coin 1, and the Right player uses Coin 2.
- o POWER SUPPLY: +5 vdc @ 11 Ampere and +12 vdc @ 1 ampere.

Check the cabinet carefully for properly operating monitor, power supply, and coin mechanisms. If the cabinet is beat up or damaged, you should repair the damage and refinish the exterior to enhance the appearance of your conversion.

This kit includes a new Logo Plex, Monitor Tube Card, Control Panel Overlay, and Side Decals. Use the old Logo Plex and Tube Card as a template for trimming the new parts to the proper size. If the original game used a silkscreened glass in front of the monitor, you may want to replace it with a clear piece of glass or plex. If you cannot use the monitor Tube Card, cut the game play instructions from it and place under the monitor glass.

Examine the main harness wiring diagram from the original game. If it used the JAMMA Standard edge connector pin-out, you may not have to re-wire the cabinet. If the edge connector pin-out is different from the JAMMA standard, use the new main harness supplied in the conversion kit. Refer to the harness edge connector pin-out in the technical section of this manual.

d. Control Panel Layout.

Please refer to Figure 1 for the suggested control panel layout. Each control wire must be connected to the N.O. (Normally Open) terminal of each switch. Use a Black Ground wire from the edge connector for all of the switch Common terminals. Refer to the Edge Connector Pin-Out in section 2c for specific wire color information. Each Rotary Joystick require the 13 pin harness (supplied in the kit) to be installed as shown in figure 2.

Included in your kit is a set of Pushbutton Function Labels. Install these near each button on the overlay, and cover with a piece of clear lexan or plex.

NOTE: This game requires separate coin mechanisms for Coin 1 (Left player) and Coin 2 (Right player).

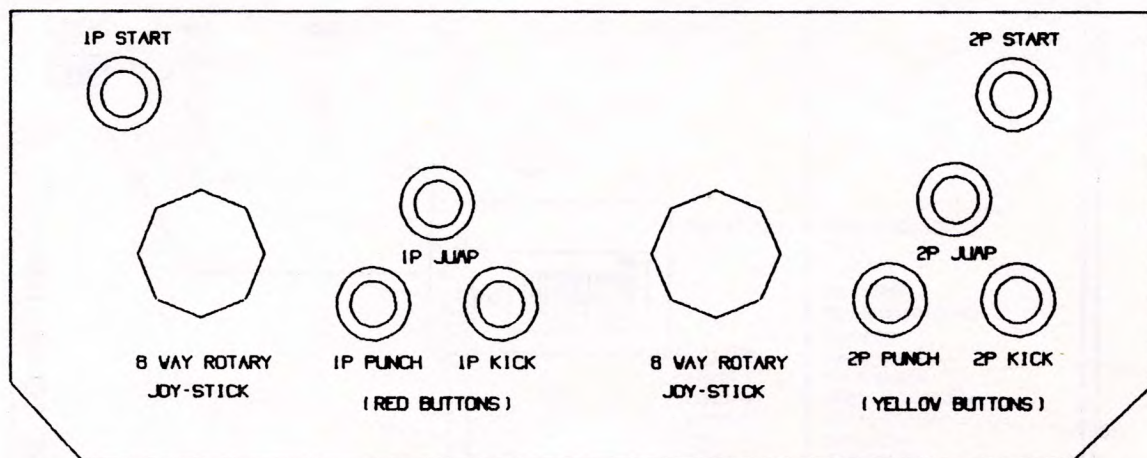


Figure 1

2. TECHNICAL INFORMATION

a. PCB & Joystick Information.

The illustration below shows the layout of the PCB, indicating the location of the Dip-Switches, connectors, and the DC voltage LED's. **NOTE:** The LED's indicate the presence of +5 and +12 vdc only, they do not indicate the proper voltage level. Use a Digital Volt-Meter to measure the actual voltage level from the power supply before installing the PCB. Figure 2 also indicates the proper hook-up of the 13 pin Rotary Switch Harness.

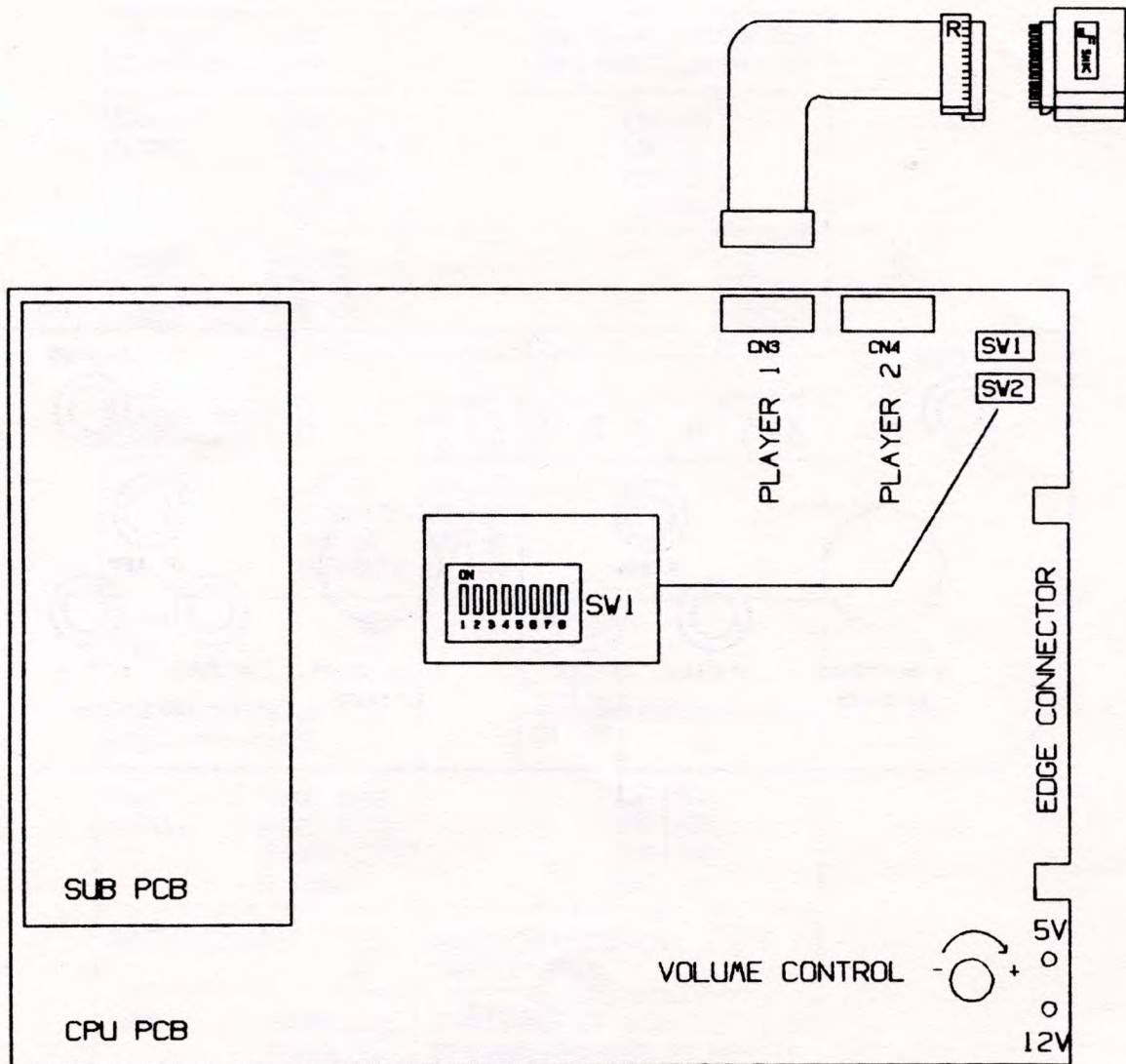
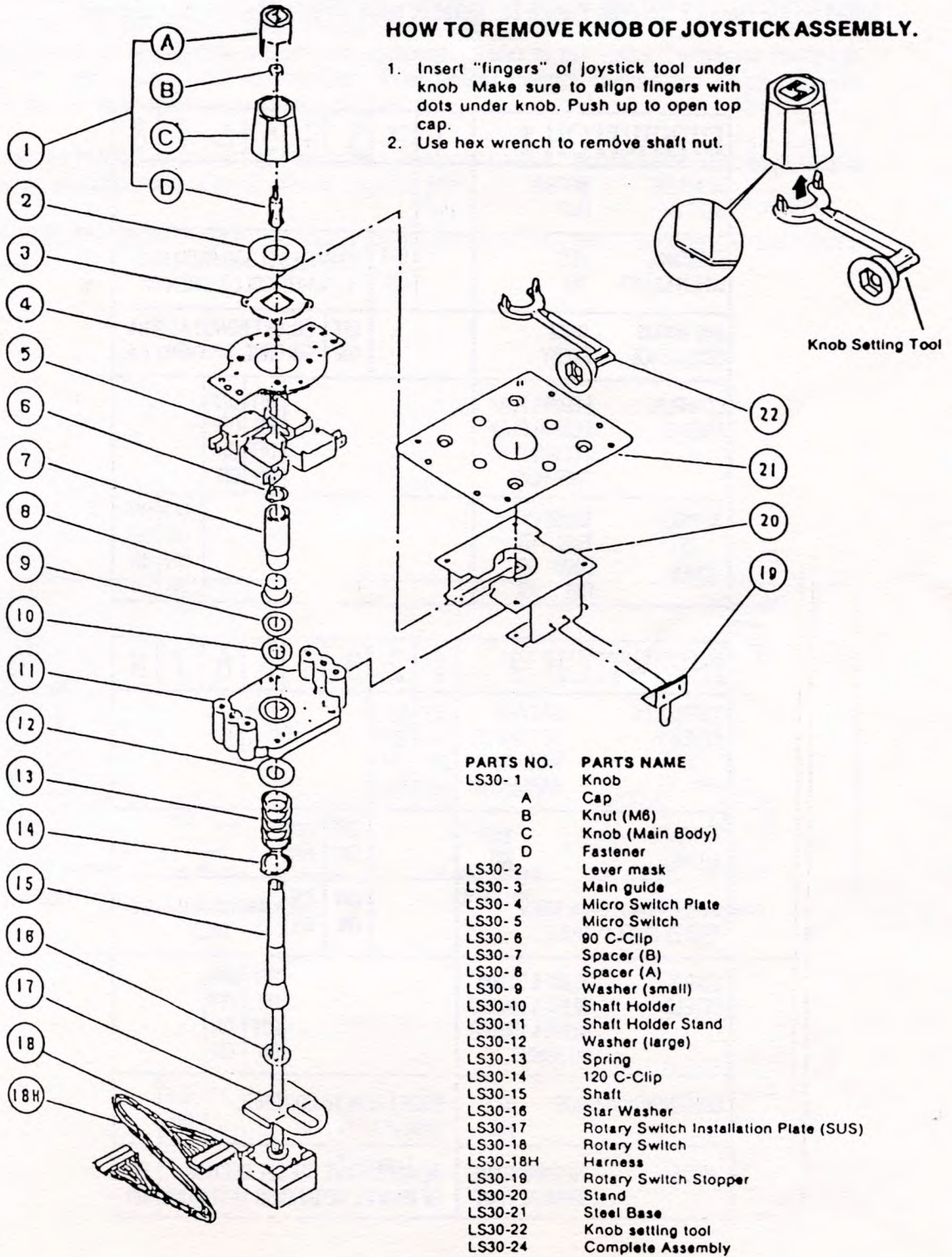


Figure 2

ROTARY JOYSTICK PARTS BREAKDOWN

HOW TO REMOVE KNOB OF JOYSTICK ASSEMBLY.

1. Insert "fingers" of joystick tool under knob. Make sure to align fingers with dots under knob. Push up to open top cap.
2. Use hex wrench to remove shaft nut.



b. Dipswitch Options.

The Ikari III game can be configured to suit the location via two 8 position Dip-Switches found on the Game PCB (see Figure 2). Refer to table's 1 and 2 for specific options.

DIPSWITCH 1		1	2	3	4	5	6	7	8
MONITOR SCREEN	NORMAL FLIP	OFF ON							
BLEEDING WHEN KILLED	YES NO		OFF ON	CHANGES BLOOD FROM RED TO WHITE COLOR WHEN ON					
2ND BONUS OCCURENCE	ONCE EVERY			OFF ON	EG; GET BONUS AT 20k & 50k ONCE, OR EVERY 50k				
COIN/PLAY PRICING	1 COIN/1 PLAY 2 COIN/1 PLAY 1 COIN/2 PLAY FREE PLAY					OFF ON OFF ON	OFF ON ON ON		
NUMBER OF LIVES	THREE (3) TWO (2) FOUR (4) FIVE (5)							OFF ON OFF ON	OFF ON ON ON

DIPSWITCH 2		1	2	3	4	5	6	7	8
DIFFICULTY LEVEL	EASY (1) NORMAL (2) HARD (3) HARDEST(4)	OFF ON OFF ON	OFF OFF ON ON						
ATTRACT SOUND	YES NO			OFF ON	OFF OFF				
NEVER FINISH GAME MODE FREEZE DISPLAY MODE				OFF ON	ON ON	TEST & DEMO USE ONLY			
BONUS LEVELS	20,000 & 50,000 40,000 & 100,000 60,000 & 150,000 NO BONUS					OFF ON OFF ON	OFF OFF ON ON		
CONTINUATION MODE	YES NO	INSERT COIN TO CONTINUE GAME PLAY OPTION						OFF ON	
MODE	NORMAL GAME MANUAL TEST	ALWAYS LEAVE OFF-SEE SECTION OF MANUAL REGARDING TEST MODE							OFF ON

c. Main Harness Pin-Out.

SOLDER SIDE				COMPONENT SIDE	
WIRE COLOR	FUNCTION	PIN NO.		FUNCTION	WIRE COLOR
BLACK	GROUND	A	1	GROUND	BLACK
BLACK	GROUND	B	2	GROUND	BLACK
RED	+5VDC	C	3	+5VDC	RED
RED	+5VDC	D	4	+5VDC	RED
GREEN	-5VDC	E	5	-5VDC	GREEN
YELLOW	+12VDC	F	6	+12VDC	YELLOW
	PROTECT	H	7	PROTECT	
		J	8	COUNTER1	BROWN
		K	9		
WHITE	SPEAKER-	L	10	SPEAKER+	WHITE
		M	11		
GREEN	CRT GREEN	N	12	CRT RED	PINK
GREY/WHITE	CRT SYNC	P	13	CRT BLUE	LT BLUE
VIOLET	SERVICE	R	14	CRT GND	BLACK
GREY	TILT RST	S	15	TEST SW	ORANGE
VIO/BLK	COIN 2	T	16	COIN 1	VIO/WHT
WHT/BLK	START 2	U	17	START 1	BLK/WHT
BRN/BLK	2P UP	V	18	1P UP	BRN/WHT
RED/BLK	2P DOWN	W	19	1P DOWN	RED/WHT
ORG/BLK	2P LEFT	X	20	1P LEFT	ORG/WHT
YEL/BLK	2P RIGHT	Y	21	1P RIGHT	YEL/WHT
GRN/BLK	2P PUSH1	Z	22	1P PUSH1	WHT/GRN
BLU/BLK	2P PUSH2	a	23	1P PUSH2	WHT/BLU
YELLOW	2P PUSH3	b	24	1P PUSH3	RED
		c	25		
		d	26		
BLACK	GROUND	e	27	GROUND	BLACK
BLACK	GROUND	f	28	GROUND	BLACK

SNK WARRANTY POLICY

SNK Corporation of America (Seller) warrants to the original purchaser (Buyer) that the components listed below are free from defects in manufacturing and materials. The warranty period is 90 days, effective the date of original shipment from Seller's factory.

GAME CPU PCB(S).....90 days
POWER SUPPLY SWITCHING REGULATOR.....90 days
MONITOR ASSEMBLY.....90 days

No other parts of Seller's product are covered by this warranty.

The Seller's sole responsibility shall be, at it's option, to repair or replace any warranted item found to be defective during the warranty period. The Buyer's responsibility shall be to notify the Seller of the defective material, and return it, freight pre-paid, to the place specified by the Seller.

Seller is not responsible for the cost of unauthorized repairs, loss of income, or any charges or losses incurred as a result of the use of this product. Seller does not warrant the suitability of it's product for a particular application.

This warranty is not applicable for normal wear and tear. This warranty shall be void if inspection of the returned product indicates defect was caused by misuse, or if unauthorized repairs were attempted, or if the item was damaged due to improper handling, shipping, or customer negligence.