# KILLER INSTINCT

OPERATIONS MANUAL

- includes -

operation parts information wiring diagrams

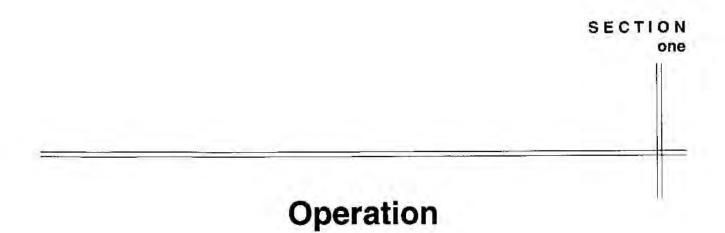
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Killer Instinct™		
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Game by Rare		
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Ciller Instinct is a trademark of Nin	itando	

Manufactured and sold by Midway Manufacturing Company under license.

# KILLER INSTINCT



#### SAFETY NOTICES

The following safety instructions apply to all game operators and service personnel. Specific warnings and cautions will be found throughout this manual where they apply. We recommend that you read this page before preparing your game for play.



**HARD DRIVE.** The operator must order special a shipping box and anti-static bag from the distributor in order to send the hard drive in for repair or replacement. Shipping Box #08-7936, Anti-Static Bag #20-9638-3

AC POWER CONNECTION. Before connecting the game to the AC power source, verify the Voltage Selection Chart jumper wires are installed correctly for the line voltage in your area. For details refer to Section 3.

**PROPERLY GROUND THE GAME.** To avoid electrical shocks, do not plug in the game until it has been inspected and properly grounded. MIDWAY games should only be plugged into a grounded 3-wire outlet.

NOTE: The control panel is removable. Ensure that the ground braid is securely attached to the control panel after servicing.

**DISCONNECT POWER DURING REPAIRS.** To avoid electrical shock, disconnect the game from the **AC** power source before removing or repairing any part of the game.

**USE THE PROPER FUSES.** To avoid electrical shock, use the replacement fuses which are specified on the inside back cover. The replacement fuses must match the original fuses in fuse type, voltage rating, and current rating.

MONITOR PRECAUTIONS. When removing or repairing the monitor, extra precautions must be taken to avoid electrical shock because high voltages may exist within the monitor circuitry and cathode ray tube (CRT) even after power has been disconnected. Do not touch internal parts of the monitor with you hands or metal objects! Always discharge the CRT by the following method: Attach one end of a large, well-insulated, 20kV jumper to ground. Momentarily touch the free end of the grounded jumper to the anode by sliding it under the anode cap. Wait two minutes and discharge the anode again.

HANDLE FLUORESCENT TUBE AND CRT WITH CARE. If you drop a fluorescent tube or CRT and it breaks, it will implode! Shattered glass can fly eight feet or more from the implosion.



#### **ATTENTION!**

**PROPERLY ATTACH ALL CONNECTORS.** Be sure that the connectors on each printed circuit board (PCB) are properly connected. If they do not slip on easily, do not force them. A reversed connector may damage your game and void the warranty. All connectors are keyed to fit specific pins on each board.

## SETUP PROCEDURE

#### **INSTALLATION & INSPECTION**

**Game Location** 

Power

Temp

Humidity

Requirements

Domestic 120V @ 60 Hz Foreign 230V @ 50 Hz

32° F to 100° (0° C to 38° C) Not to exceed 95% relative.

**Cabinet Statistics** 

**Dimensions** 

Weiaht

Width 27"

Approximately 402lbs

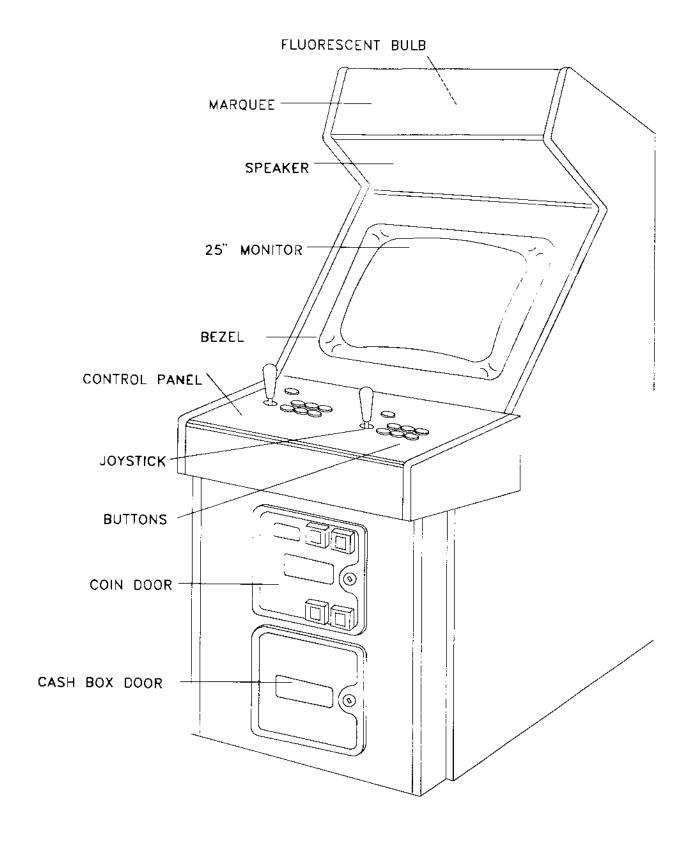
Depth 41" Height 73"

- 1. Remove all items from the shipping containers and set them aside. Inspect the exterior of the cabinet and the control panel for any damage.
- 2. The coin door keys are attached to one of the joysticks. Unlock and open the coin and cash box doors. Remove the spare parts stored in the cash box and remove the rear door keys located on a key hook inside the coin door.
- 3. Remove the screws holding the rear door then unlock and remove the door. Inspect the cabinet interior for any signs of damage. Check all major assemblies to assure that they are mounted securely.
- 4. Refer to the Cabinet Wiring Diagram (Section 3), and check to see that all cable connectors are correctly secured. Do not force connectors. Watch for damaged connectors and avoid making reversed connections.
- 5. If a padlock is desired, turn the rear door hasp so that it protrudes from the hole in the back of the cabinet. Remove the two nuts inside the cabinet, at the top and middle of the rear door opening. Then slide the hasp off of the bolts. Turn the hasp, slide it back on the bolts and replace the nuts.
- 6. Next, locate the four leg levelers among the spare parts in the cash box. There are four threaded holes on the bottom of the cabinet; one in each corner. Place one leg leveler (with its hex nut) in each of the threaded holes. Lower each leg leveler until the cabinet is stable and level.

## !! WARNING !! The cabinet is top heavy.

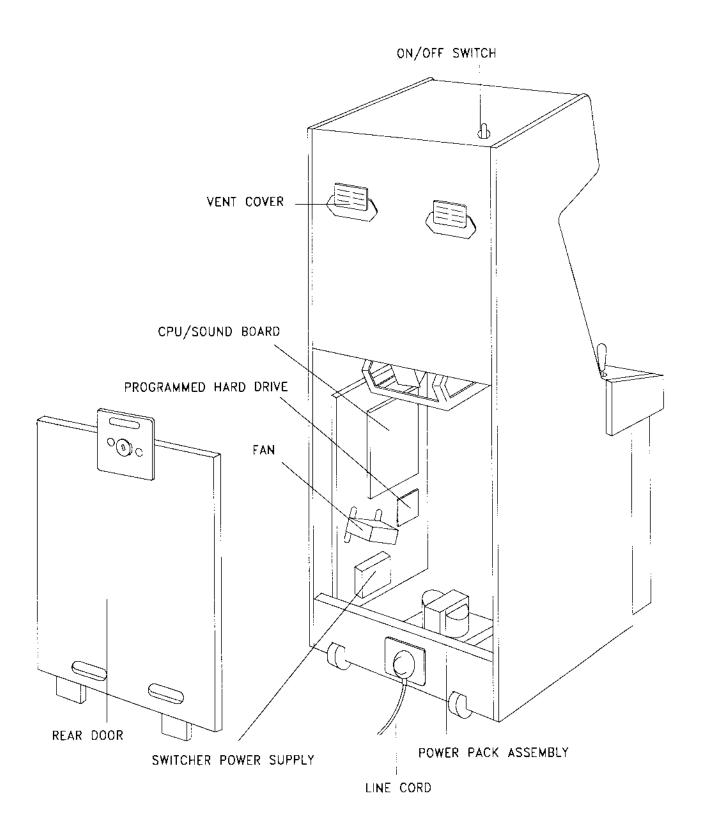
- 7. Determine the value of your line voltage with a meter. Then, check the jumper wires to the main power supply transformer. Be sure it is jumpered to correspond to your local line voltage value. If necessary, change the jumper wires to the transformer in accordance with the Voltage Selection Chart in Section 3.
- 8. Lay the line cord (connected to the power chassis) in the slot along the bottom edge of the rear cabinet door. Replace the rear door and screw (lock) it securely. NOTICE: Tamper proof screws are included in the spare parts bag. These screws are optional and may be used to secure the rear door panel. A special wrench (20-9620) for the installation of tamper proof screws is also provided. Close and lock the front coin and cash box doors.
- 9. Plug the game into a grounded (3-terminal) AC wall outlet. Switch ON the game, using the ON/OFF switch located on the upper left rear of the cabinet.

## **CABINET ASSEMBLY**



Front View

#### **CABINET ASSEMBLY**



Rear View 1-5

## **SERVICING**

## Servicing the Control Panel

Switch off power to the game and open the coin door. The control panel is held in place by two latches (located inside the cabinet) which provide constant pressure on the strikes. To release the latches, reach through the coin door opening toward the right, left and front of the cabinet. Do not reach straight back through the coin door or you could damage the monitor control board. Lift the latch handle and unhook the wire fasteners. Grip the joysticks and carefully tilt the control panel back on its hinge.

To return the control panel to its normal position, carefully lean it forward until it rests on the cabinet. Be careful not to let the control panel slam down onto the cabinet, or to pinch any wires. Always reclasp the latches.

## Removal of the Viewing Glass

Switch off power to the game and open the control panel. Remove the five hex-head screws and the black metal strip at the bottom of the viewing glass. Carefully, slide the glass from the side grooves and lift it clear of the cabinet.

## Removal of the Monitor Bezel

Switch off power to the game. Open the control panel and remove the viewing glass. Lift the bezel off of the monitor.

## Monitor Replacement

We recommend that you read the SAFETY NOTICES section thoroughly before beginning this procedure.

Switch off power to the game. Remove the viewing glass and the monitor bezel. Completely disconnect the monitor from all of its cabling. Remove the four flange nuts securing the monitor's mounting flanges to its mounting panel. Pull the monitor carefully from the cabinet.



The monitor does not require an isolation transformer. However, when servicing the monitor on a test bench, YOU MUST ISOLATE THE MONITOR FROM LINE VOLTAGE WITH AN ISOLATION TRANSFORMER.

THE MONITOR IS HEAVY. BE SURE IT IS FIRMLY SUPPORTED IF IT MUST BE REMOVED FROM THE CABINET.

## Hard Drive Replacement

REMEMBER: HARD DRIVES ARE FRAGILE.

In order to return the hard drive, you must contact your distributor to obtain a special shipping box and anti-static bag. SHIPPING BOX #08-7936 ANTI-STATIC BAG #20-9638-3

Switch off power to the game and open the rear door. Unplug the ribbon cable from the hard drive. Loosen the four M3-.5 x 4mm Phillips truss head screws holding the hard drive to the mounting bracket. Lift and pull the hard drive toward you to remove it from the bracket. Remove and retain the four screws.

Open the shipping box. Remove the top white foam packing and anti-static bag, set them aside. Remove the center two inserts from the gray foam packing. This creates an opening approximately 4" x 2-3/4". Place the hard drive in the anti-static bag and then in the opening in the gray foam packing. Replace the white foam packing so that the bubble side faces up. Seal the box.

To reinstall the hard drive, first screw the four M3-.5 x 4mm Phillips truss head screws about half way into the drive. Arrange the hard drive so that the PC board faces the mounting bracket and the ribbon cable connector points up. Line the screws up with the slots and slide it back and down, into the lock position on the bracket. Tighten the screws. Plug in the ribbon cable from the CPU/Sound board.

NOTE: The ribbon cable connector is keyed. Pin 1 of the ribbon cable has a red line going to it. The connector on the hard drive is fragile. Do not force the ribbon cable connector onto the hard drive connector.

## Removal of the Marquee

Switch off power to the game. Remove the hex-head screws from the black marquee retaining strip located on top of the header. Remove the strip and carefully lift the marquee and the marquee glass from the top of the header. Store the marquee carefully to prevent damage.

## Removal of the Fluorescent Light Assembly

Switch off power to the game. Remove the marquee glass and the marquee. The fluorescent bulb is now accessible for replacement. Remove the plastic lamp locks. Grasp the bulb, give it a quarter turn, and remove it from its socket. Carefully, place a new bulb into the socket, and turn to reinstall.

To remove the entire light fixture, disconnect the fluorescent light assembly from its power cable. Remove the screws that hold the assembly to the cabinet then lift out the assembly.

#### !! WARNING !!

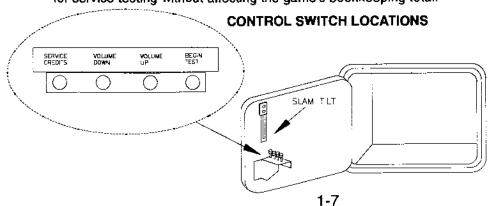
If you drop a fluorescent tube and it breaks, it will implode! Use care in handling.

## Removal of the Speakers

Switch off power to the game. Remove the marquee and the marquee glass. The speakers come out from the front of the cabinet. Be sure to disconnect the cabling and remove the nuts on the mounting screws before attempting to remove the speakers from the enclosure. Carefully, reinstall the seals upon completing any task in the speaker enclosure.

## Volume Control, Begin Test Switch, and Service Credit Switch

Open the coin door. The game's volume control and diagnostic push-button switches are located on a small bracket on the door. The volume is controlled by the two center buttons. Press the Volume Up or the Volume Down button until the desired sound level is reached. The Begin Test switch, on the right, activates the game's menu system. The Service Credit switch, on the left, allows credits to be allotted for service testing without affecting the game's bookkeeping total.



## **GAME FEATURES**

#### STARTING UP

Switch on power to the game. The game runs through a start-up routine.

Insert the desired amount of coins, bills or tokens. Select which player receives the credit by pressing the appropriate Start button.

### **NOTE**

When an error is detected during the Start-up tests, game start-up does not progress, and an error message appears on the screen.

#### **PLAYER CONTROLS**

#### Start Button

Each player has a Start button. The Start buttons allow one or two players to begin or continue play.

#### Joysticks

Each player has a joystick which he uses to control an on-screen character. The player can make the on-screen character move, jump or duck.

#### **High Attack**

An attack that originates above the waist, such as a punch.

#### Low Attack

An attack that originates below the waist, such as a kick.

#### Quick

A "quick" attack is a short range, short duration attack that inflicts little damage to an opponent.

#### Medium

A "medium" attack is a moderate range, moderate duration attack that inflicts some damage to an opponent.

#### **Fierce**

A "fierce" attack is a long range, long duration attack that inflicts much damage to an opponent.

#### NOTE

Use joystick and button combinations to discover secret moves.

#### **CONTROL PANEL DIAGRAM**

_ <del></del>							
Start				Start			
Jump	F	ligh Attack		Jump	H	ligh Attack	
Move — Move	Quick	Medium	Fierce	Move — Move	Quick	Medium	Fierce
Duck	Ouick	() Medium	© Fierce	 Duck	(C) Quick	(Medium	© Fierce
	L	₋ow Attack			I	Low Attack	

## **GAME OPERATION**

The KILLER INSTINCT Control switches are located inside the coin door.

#### **CONTROL SWITCHES**

Control switches are located on a bracket inside the coin door.

The Slam Tilt switch prevents pounding for free games.

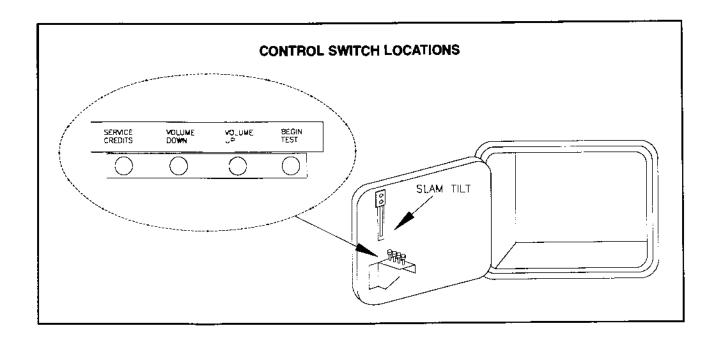
The **Volume Down** and **Volume Up push-button** switches increase or decrease the volume level of the music and speech. The **volume** level can be adjusted during the Attract Mode or during menu system operation. For greater profits, set your game's volume level at a nice loud setting.

The **Begin Test** push-button switch enters the game's menu system. Press the Begin Test switch to access any of the menu system functions.

The Service Credit push-button switch is a special feature switch that allots credit without affecting the game's bookkeeping total.

NOTE

The coin door must be open for the control switches to work.



## **MENU SYSTEM OPERATION**

## **OPERATION**

All game audits, adjustments and diagnostics are options of the Main Menu. Each option, in turn, has its own menu that lists several choices which you may act upon as desired.

Press the Begin Test switch on the coin door to open the Main Menu (shown below). Game adjustments, bookkeeping and diagnostics are all accessible from this menu.

Use either joystick to move the cursor up and down the menu screen. Notice that the options are highlighted in sequence. Press any button to open a highlighted option. Only highlighted options can be opened.

To exit the Main Menu, use either joystick to select EXIT TO GAME OVER and press any button.

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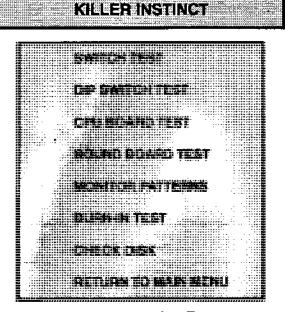
CHARLEST DE TEST

CARRE ANTES

MAIN MENU

#### **DIAGNOSTIC TESTS**

Use either joystick to select the Diagnostic Menu and any button to open it. Then, use either joystick to move the cursor up and down the menu and any button to open a highlighted option.



DIAGNOSTIC MENU

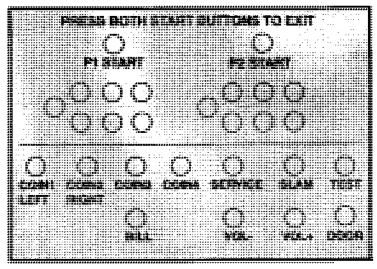
#### Switch Test

The Switch Test allows the operator to test the switches on the control panel and in the coin door.

Use either joystick to highlight the Switch Test and any button to begin the test.

During the Switch Test the top of the screen shows the control panel switches while the bottom of the screen shows the coin door switches. Press a control panel or coin door switch and the switch location on the screen lights. Release the switch and the screen returns to normal.

To exit the Switch Test, press both Start buttons together.



SWITCH TEST SCREEN

## **DIP Switch Test**

The DIP Switch Test allows the operator to check or change the position of the DIP Switches on the CPU Board.

Use either joystick to select the DIP Switch Test and press any button to access the DIP Switch Setting Tables. The screen displays the current DIP Switch settings. To change a setting, slide the switch to the desired position, then check the screen to verify the new setting. In some cases, setting a function to OFF actually enables the function. For example, setting DIP Switch Coinage to Off enables DIP Switch Coinage.

Press any button to return to the Diagnostic Menu.

**DIP Switch 1 Setting Table** 

	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
High Blood Level Med. Blood Level Low Blood Level No Blood	Off* On Off On	Off* Off On On						
Attract Sounds No Attract Sounds			Off* On	-				
Ending Moves No Ending Moves				Off" On		•		
Display Violence V No Violence Warni				_	Off* On			
Not Used				<del></del>		Off" On	Off" On	Off* On

**DIP Switch 2 Setting Table** 

	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
DIP Sw. Coinage	Off*							
Disk Coinage	_On							
Coin Settings						•		
USA1 Gert	Fr1	Off*	Off*	Off*				
USA2 Ger2	Fr2	On	Off	Off			[	
USA3 Ger3	Fr3	Off	On	Off				
USA4 Ger4	Fr4	On .	On	Off	l			
USAECA GerECA	A FrECA	Off	Off	On				
USA9		On	Off	On				
USA10	i	Off	On	On	i			
Free Play Free Play	ree Play	On	On	On				
Country				-				
USA					Off*	Off*		
Germany					On I	Off		
France					Off	On		
Not Used					On	On		
One Counter							Off*	
Two Counters							On	
Game Mode								Off*
Test Mode								On

<sup>\*</sup> Indicates Factory Setting.

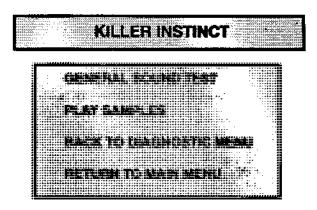
#### **CPU Board Test**

Select the CPU Board Test with either joystick then press any button to start the automatic test. When this test is activated, a "rug" pattern appears on the screen. When the rug pattern ends, *Test O.K. or Test Failed* appears on the screen. This test returns to the Diagnostic Menu automatically.

#### **Sound Board Test**

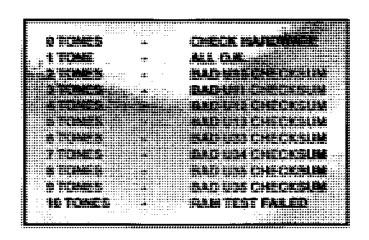
This test allows the operator to listen to some of the sounds this game is capable of producing.

Use either joystick to select the test, then press any button to open the test menu. The screen displays two test options. Use either joystick to select an option and press any button to begin the test.



SOUND TEST MENU

**GENERAL TEST** analyzes the sound circuitry. The screen shows a list of error codes. A successful test causes a single "tone" to sound. Detection of a fault causes a series of tones or no tone at all to sound. Press any button to return to the Sound Test Menu.



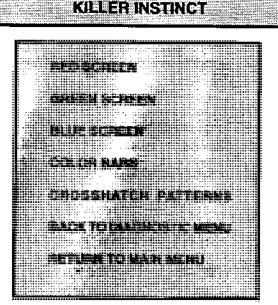
PLAY SOUNDS test synthesized and digitized sounds from the CPU/Sound Board. Advance to the next sound with any button. Use either joystick to end the test.

Select RETURN TO MAIN MENU or BACK TO DIAGNOSTIC MENU and press any button.

#### **Monitor Patterns**

The Monitor Patterns Test provides a menu for testing the monitor.

Select the test with either joystick. Press any button to open the test menu. Once the Monitor Patterns Test menu is open, use either joystick to select an option, and any button to begin it.



MONITOR PATTERNS MENU

The RED, GREEN and BLUE SCREEN tests fill the screen with either red, green or blue. Press any button to return to the Monitor Patterns Menu.

The **COLOR BARS** test fills the screen with several shades of colors to help with red, green and blue level adjustments. Each color should appear sharp and clear. Press any button to return to the Monitor Patterns Menu.

The CROSSHATCH PATTERNS test fills the screen with a grid and a series of dots. The grid and the dots should be clear. The dots should be round. Press any button to return to the Monitor Patterns Menu.

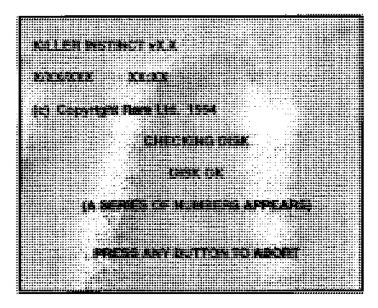
If any of the Monitor Patterns Test shows a need for adjustment, use the proper knobs on the Monitor Controls Board.

Use either joystick to select RETURN TO MAIN MENU or BACK TO DIAGNOSTIC MENU, then press any button.

#### **Check Disk**

This test checks the hard disk drive.

Use either joystick to select the test, then press any button to activate it. Press any button to return to the Diagnostic Menu.



CHECK DISK SCREEN

#### **Burn-in Test**

The Burn-in Test continually repeats the CPU Board Test. Use this test to find intermittent CPU Board problems.

Use either joystick to select the test, then press any button to activate it. When the Burn-in Test detects an error the test stops and an error message is displayed on the screen. To exit this test, switch the game off, then on again.

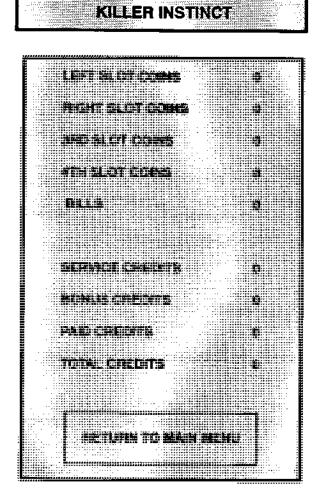
The Audit Table specifies the number of Burn-in cycles that have been successfully completed.

#### **COIN BOOKKEEPING**

The Coin Bookkeeping Table records the coin box totals and the game play counters.

Use either joystick to select the Coin Bookkeeping Menu, then press any button to open it.

To exit Coin Bookkeeping, use either joystick to select RETURN TO MAIN MENU and press any button.



COIN BOOKKEEPING MENU

#### **GAME AUDITS**

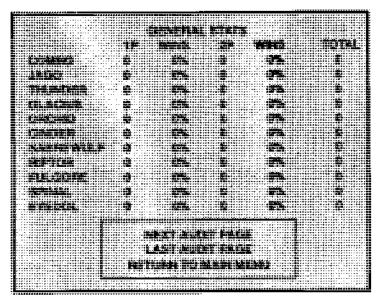
Use joystick to select the Game Audits Menu, then press any button to open it. Page through the available audits by selecting NEXT AUDIT PAGE or LAST AUDIT PAGE. Select RETURN TO MAIN MENU and press any button to exit Game Audits.

NOTE

Game audits cannot be set. They can only be cleared.

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AUDIT MENU - PAGE ONE



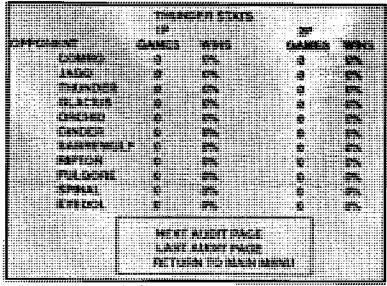
AUDIT MENU - PAGE TWO

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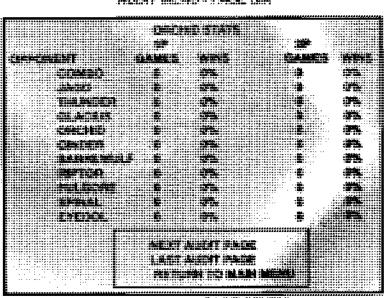
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AUDIT MENU - PAGE FOUR

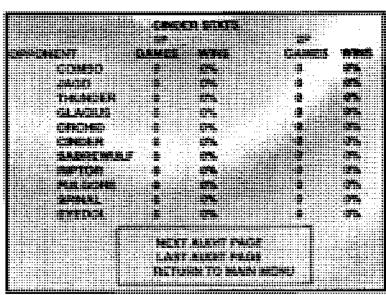


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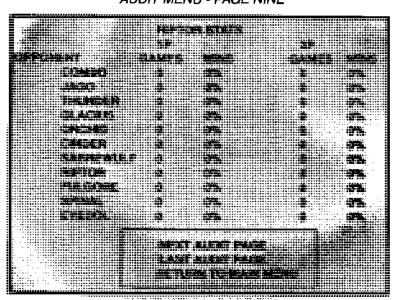
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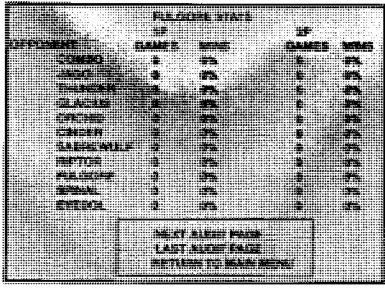
AUDIT MENU - PAGE EIGHT

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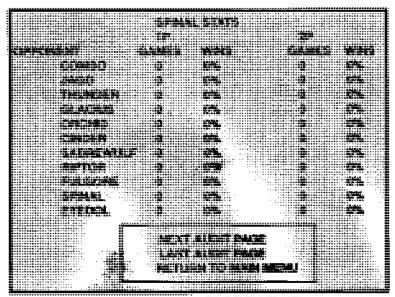
AUDIT MENU - PAGE NINE

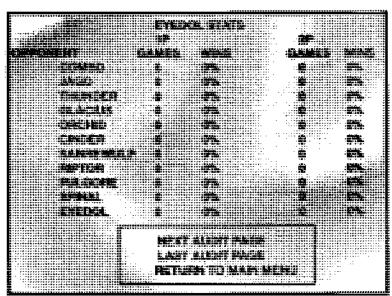


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AUDIT MENU - PAGE ELEVEN





ALTER LABOUR - CHARLE TOURS IN STREET

#### **GAME ADJUSTMENTS**

The Game Adjustments allow the operator to customize the game.

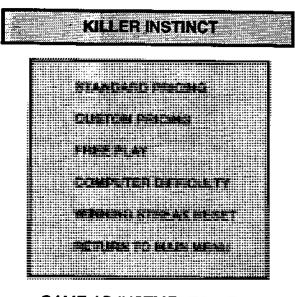
Use either joystick to select the Game Adjustments Menu. Press any button to open the menu.

The Game Adjustments Menu offers several options. Each option has several choices. Use either joystick to select an option, then press any button to open the option. The next menu screen provides a setting value. Use either joystick to change the setting value and press any button to lock it in.

To exit the Adjustments Menu, use either joystick to select RETURN TO MAIN MENU, then press any button.

#### **NOTE**

Adjustment values set by DIP SWITCH, override adjustment values set by the menu system.



GAME ADJUSTMENTS MENU

### Game Adjustments

#### Standard Pricing

Standard pricing allow the operator to choose any of the "standard" selections from the Standard Pricing Table. See page 1-24.

Modify the setting value with either joystick. Press any button to lock in the new value and return to the Adjustments Menu.

#### **Custom Pricing**

Custom pricing allows the operator to install pricing other than that of the Standard Pricing Table. Custom pricing also allows the operator to select the maximum amount of credits per game, the amount of credits required to start a game, and the amount of credits required to continue a game. This option is being adjusted from the DIP Switch settings. See page 1-25.

Modify the setting value with either joystick. Press any button to lock in a new value and return to the Adjustment Menu.

#### Game Adjustments Continued...

#### Free Play

This option selects free play. The setting choices for this adjustment are:

- No
- Yes
- No - Factory Setting:

### Computer Difficulty

This option determines how tough the computer opponents are. The setting choices for this adjustment are:

- (1) Extra Easy
- (2) Easy
- (3) Medium
- (4) Hard
- (5) Extra Hard
- Medium - Factory Setting:

#### Winning Streak Reset

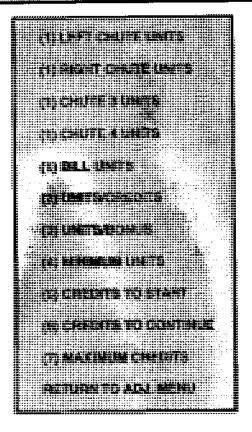
This option determines the number of games that must be played before the high scores automatically reset to factory settings. The setting choice for this adjustment are:

- No Reset
- 5000 Games
- 10,000 Games
- 15,000 Games
- Factory Setting: No Reset

## STANDARD PRICING TABLE

Name	Setting - Credit/Coin	Coin 1	Coin 3	Coin 2	Coin 4	Bills
USA 1	1/25¢ (2 to Start; 2 to Continue)	25¢	<del> </del>	25¢	<del>                                       </del>	\$1.00
USA 2	1/25¢ (2 to Start, 1 to Continue)	25¢		25¢		
USA 3	1/25¢ (1 to Start; 1 to Continue)	25¢			i	\$1.00
USA 4	1/50¢, 3/\$1.00 (1 to Start; 1 to Continue)			25¢		\$1.00
		25¢		25¢		\$1.00
USA 5	1/50¢, 4/\$1.00 (2 to Start; 1 to Continue)	25¢		25¢	]	\$1.00
USA 6	1/50¢ (1 to Start; 1 to Continue)	25¢		25¢	İ	1 :
USA 7	1/50¢, 3/\$1.00 (1 to Start, 1 to Continue)	25¢		25¢		\$1.00
USA 8	1/50¢, 4/\$1.00 (2 to Start; 2 to Continue)					\$1.00
	1/50¢, 4/\$1.00 (2 to Start, 2 to Committee)	25¢		25¢		\$1.00
USA 9	1/25¢ (3 to Start; 2 to Continue)	2 <b>5¢</b>	1	25¢		\$1.00
USA 10	1/25¢ (3 to Start; 3 to Continue)	25¢		25¢		\$1.00
USA ECA	1/25¢, 4/\$1.00 (2 to Start, 2 to Continue)	\$1.00	10¢	25¢	5¢	\$1.00
German 1	1/4014 (/5014		1	<del></del>	36	+ 41.00
German 2	1/1DM, 6/5DM	1DM		5DM		İ
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German 3	1/1DM, 8/5DM	1DM		5DM		
German 4	1/1 DM, 5/5 DM	1DM		5DM		
German 5	1/1DM, 6/5DM	1DM	1			i
German ECA	1/1DM, 2/2DM, 6/5DM			5DM		1.
GOITHAIT EOA	171DM, 272DM, 0/5UM	5DM	1DM	2DM		<u> </u>
France 1	2/5F, 5/10F	5F		10F		
France 2	2/5F, 4/10F	5F		10F		
France 3	1/5F, 3/10F		ļ			1
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	1/5F, 2/10F	5F		10F		
France 5	2/5F, 5/10F, 11/2 x 10F	5F		10F		
France 6	2/5F, 4/10F, 9/2 x 10F	5F		10F		
France 7	1/5F, 3/10F, 7/2 x 10F	5F				
France 8				10F		1
	1/5F, 2/10F, 5/2 x 10F	5F		10F		1
France 9	1/3 x 1F, 2/5F	1F		5F		1
France 10	1/2 x 1F, 3/5F	iF		5F		1
France 11	1/3 x 1F, 2/5F, 5/2 x 5F					1
France 12		1 <u>F</u>		5F		
	1/2 x 1F, 3/5F, 7/2 x 5F	1F		FF		]
France ECA	1/3 x 1F, 2/5F, 5/2 x 5F	1F	10F	5F		
Canada	1/2 x 25¢, 3/\$1.00	25¢		\$1.00		\$1.00
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Swiss 3	1/1F, 8/5F	1F		5F		
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UK 1	1/20P, 3/50P					
UK 2		20P		50P		
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UK ECA	1/20P, 3/50P, 7/£1.00	£1.00	20P	50P		
UK Elec w/CCU	1/30P, 2/50P, 4/£1.00	£1.00	. 20P	50P	10P	
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Spain 1 Spain 2	1/100 peseta, 6/500 peseta 1/100 peseta, 5/500 peseta	100 peseta 100 peseta		500 peseta		
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Australia 1	1/3 x 20¢, 2/\$1.00	20¢		\$1.00		
Australia 2	1/5 x 20¢, 1/\$1.00	20¢		\$1.00		
Japan 1	1/100 yen	405	·			
Japan 2	2/100 yen	100 yen		100 yen		
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Vorway	1/2 x 1 krone, 3/5 x 1 krone	1 krone		1 krone		
Denmark	1/2 x 1 krone, 3/5 krone, 7/2 x 5 krone	1 krone		5 krone		
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## KILLER INSTINCT



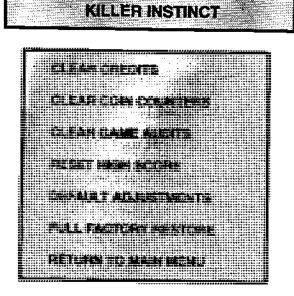
**CUSTOM PRICING MENU** 

- (1) Coins inserted accumulate units. This adjustment specifies the number of units given for each coin in the fourth chute (see "units/credit").
- (2) This is the number of coin units required to buy one credit.
- (3) There is one bonus credit awarded after this many coin units have accumulated.
- (4) This is the minimum number of units required before any credits are awarded.
- (5) Each player needs this many credits to begin a game.
- (6) Each player needs this many credits to continue a game.
- (7) This is the limit for the credit counter. Additional coins inserted will be lost (factory setting: 30).

## **UTILITIES**

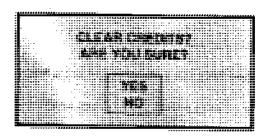
The Utilities Menu allows the operator to clear the game's bookkeeping memory.

Use either joystick to select the Utilities Menu, then press any button.



**UTILITIES MENU** 

Use either joystick to select a utility. Press any button to activate the selection. A dialogue box appears and the operator can choose to reset the utility. For example:



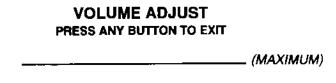
Use either joystick to choose a setting value. Press any button to lock in the new setting value.

To exit the Utilities Menu, use either joystick to select RETURN TO MAIN MENU, then press any button.

#### **VOLUME ADJUST**

The Volume Adjust feature allows the operator to determine the sound and music level of the game.

The volume level can be adjusted from either the Attract Mode or the Menu System. Press the Volume Up button to raise the volume level and the Volume Down button to lower the volume level. Either joystick can also be used to raise or low the volume level. The current volume level is shown with a red bar. Press the any button to return to the Main Menu.





## TROUBLESHOOTING

**PROBLEM** 

POSSIBLE SOLUTION

No picture or distorted picture.

Check for faulty video board or monitor. Check for disconnected

video signal cable.

Tum game On and nothing happens.

Check line fuse. Check for +5Vdc at pins C, D, 3 and 4 of the

JAMMA connector.

No sound.

Check the speaker and the speaker connection to pin L and 10 on the

JAMMA connector. Check volume control setting. Check for +12Vdc at

pins F and 6 on the JAMMA connector.

No general illumination.

Check the 1A, S.B. fuse in the A.C. power pack assembly.

Press start button and nothing

happens.

Check for open wires between the button and the CPU board. Check for contamination on CPU board pins or the Start button switch blade con-

tacts. Check for proper ground.

No credit given for number of coins

inserted.

Check DIP switch coin settings. Check for contamination on the coin switch contacts. Check for an open wire between Coin Switch 1 and pin

16 on the JAMMA connector or Coin Switch 2 and pin T of the JAMMA

connector.

Too many credits for number of

coins inserted.

Check the game pricing settings. Check for a short between pins T & 16

on the JAMMA connector.

Game stay in test mode.

Check that the switch #8 of DIP switch bank #2 is set to off.

# KILLER INSTINCT



**Parts** 

#### **CABINET HARDWARE**

Cabinet Assembly A-19178-40047

Lock Retainer Plate 01-7264 Upper Door Lock Cam 01-8989 Leg Leveler Plate 01-9155 Lock Plate 01-11285 Door Bracket 01-11291 Shaft Caster 02-4404 20" Vent Hole Cover 03-7602 Door Cam Lock 20-6542-TB Caster Wheel 20-9627

Coin Door Assembly 09-50000-33
Coin Vault Door 09-41000
Mars Chute 01-11370

Mars Chute 01-11379
Coin Meter w/Diode 5580-13476-00

Glass Retainer Bracket 01-9607.1
Security Bracket 01-11955
Marquee Retainer 03-8252-2
Glass Edge Retainer 03-8358
25" CRT Bezel 03-8497

 Cash Box Tub
 03-8863 (Qty = 2)

 Leg Adjuster, 3 inch
 08-7377 (Qty = 4)

 Clear Marquee Glass
 08-7456-4

 Clear CRT Glass
 09-7456-4

 Clear CRT Glass
 08-7456-10

 Marquee
 31-2020

#### ELECTRONIC RACK

Electronic Rack A-19591 \*Before returning hard drive to Switcher Power Supply A-15202-1 distributor order:

CPU/Sound Assembly A-19650-40047 Shipping Box #08-7936 Hard Drive Mounting Bracket A-19595.1 and

Programmed Hard Drive\* A-19596 Anti-Static Bag #20-9638-3

 Fan Grille
 03-9223

 Fane Guard
 20-9420

 Fan
 20-9947

#### MONITOR

Monitor Support Bracket 01-10819 25" Monitor 5675-13399-01

#### MANUALS

DBV Installation Instructions 16-9637 Instruction Manual 16-40047-101

## CONTROL PANEL

Housing & Control Panel Assembly	A-19584
Control Panel Assembly	A-19586
Plate	A-19587
Control Panel Cable	H-19597
Control Panel Latch Bracket	01-11996
Clear Overlay	03-9304
15 Link Safety Chain	20-9275-2
White Pushbutton	20-9687-2
Blue Pushbutton	20-9687-3
Control Panel Hinge	20-9841.1
8-Way Joystick	20-10178-3
Screened Overlay	31-2021
Housing w/ Hinge	A-19585
Toggle Latch	20-9347

## FLUORESCENT LAMP ASSEMBLY

Fluorescent Housing & Bracket	A-15890
Lamp Locks	03-8327
18" Fluorescent Bulb, 15W	24-8809

## SPEAKER

Speaker Grille	01-11859
8Ω Full Range Speaker	5555-13961-00

## TRANSFORMER ASSEMBLY

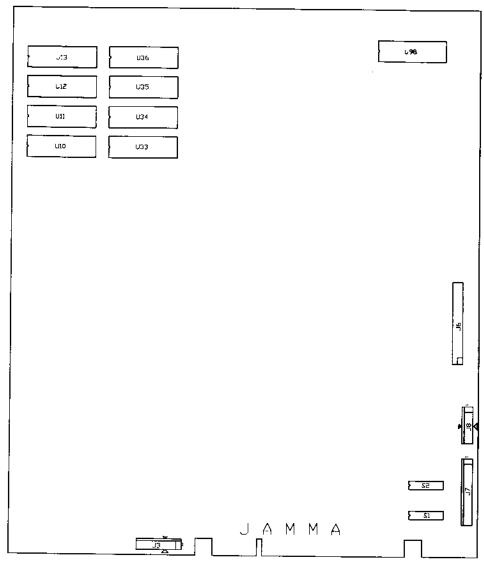
Power Pack Assembly	A-15916	
Fuse, SB, 1A, 250V	5731-06569-00	
Fuse, SB, 3A, 250V	5731-10356-00	

## CABLES

Dixie-Narco Cable		H-17019
Control Panel Cable	•	H-19597
Main Harness Cable		H-19598.1
Speaker Cable		H-19599
Line Voltage Cable		H-19639
2MM Ribbon Cable		5795-14459-02

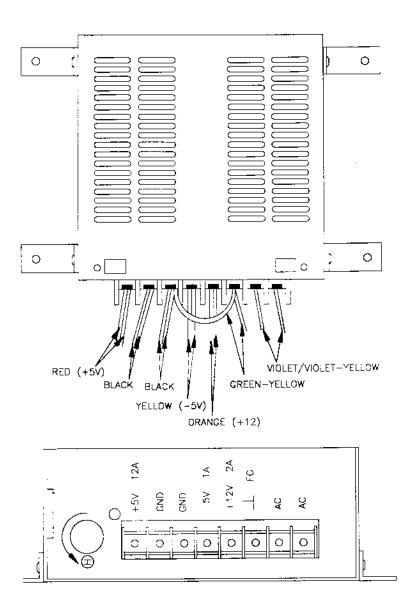
## CPU/Sound Assembly A-19650-40047

Designation Part Number	
A-5343-40047-1	Game EPROM
A-5343-40047-2	Sound EPROM
A-5343-40047-3	Sound EPROM
A-5343-40047-4	Sound EPROM
A-5343-40047-5	Sound EPROM
A-5343-40047-6	Sound EPROM
A-5343-40047-7	Sound EPROM
A-5343-40047-8	Sound EPROM
A-5343-40047-9	Sound EPROM
5645-09025-00	DIP Switch
5791-12461-10	Header, 10-pin
5791-14457-00	Header, 44-pin
5791-12461-15	Header, 15-pin
5791-12461-08	Header, 8-pin
	A-5343-40047-1 A-5343-40047-2 A-5343-40047-3 A-5343-40047-5 A-5343-40047-6 A-5343-40047-7 A-5343-40047-8 A-5343-40047-9 5645-09025-00 5791-12461-10 5791-12461-15



# Switcher Power Supply Assembly A-15202-1

Part Number	Description		
01-10500	Mounting Bracket		
01-12162	Shield		
20-9920	P/S Switcher Supply		



# KILLER INSTINCT

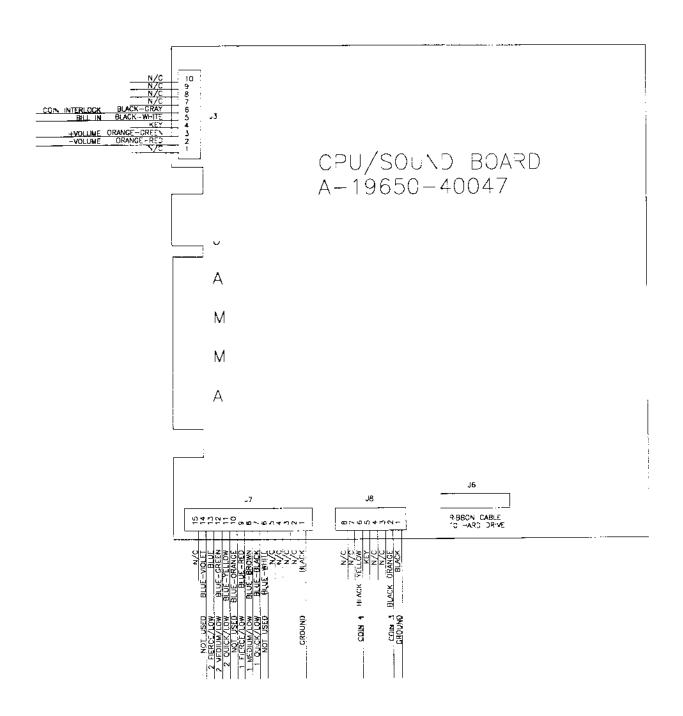
Wiring Diagrams

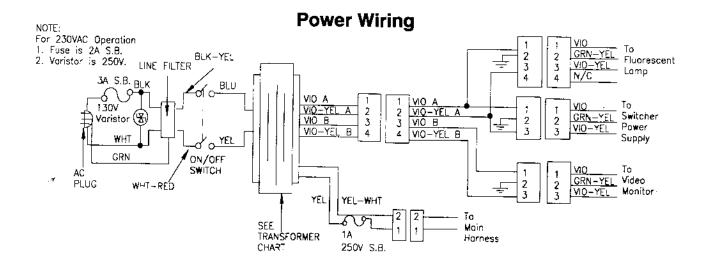
3-1

## **JAMMA** Chart

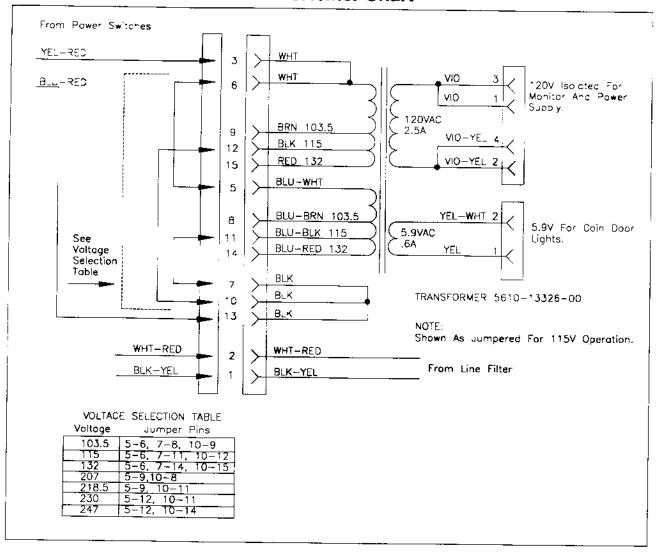
FUNCTION	WIRE COLOR	PIN	PIN	WIRE COLOR	FUNCTION
Ground	Black	A	1	Black	
Ground	Black	В	2	Black	Ground
+5VDC	Red	C -	3	Red	Ground
+5VDC	Red	D	4	Red	+5VDC
-5VDC	Yellow	E	5	Yellow	+5VDC
+12VDC		F		<del></del>	-5VDC
+12VDC	Orange	<del>                                     </del>	6	Orange	+12VDC
Coin Counter 2	Key Dad		. 7	Key	
Coin Counter 2	Brown-Red N/C	J	8	Brown	Coin Counter 1
Cooker		K	9	N/C	
Speaker-	Brown-Gray	L.	10	Red-Gray	Speaker+
16-1	N/C	M	11	N/C	
Video Green	Green	N	12	Red	Video Red
Video Sync	White	Р	13	Brown	Video Blue
Service Credits	White-Gray	R	14	Shield	Video Ground
Slam Tilt	Black-Green	S	15	Black-Blue	Test
Coin 2	Black-Red		16	Black-Brown	Coin 1
2 Start	Violet-White	U	17	White	1 Start
2 Up	Violet-Black	V	18	White-Black	1 Up
2 Down	<u>Violet-Brown</u>	W	19	White-Brown	1 Down
2 Left	Violet-Red	Х	20	White-Red	1 Left
2 Right	Violet-Orange	Υ	21	White-Orange	1 Right
2 Quick/High	Violet-Yellow	Z	22	White-Yellow	1 Quick/High
2 Medium/High	Violet-Green	а	23	White-Green	1 Medium/High
2 Fierce/High	Violet-Blue	b	24	White-Blue	1 Fierce/High
Not Used	Violet	С	25	White-Violet	Not Used
	N/C	d	26	N/C	1.00.000
	N/C	е	27	N/C	
Ground	Black	f	28	Black	Ground
SOLDER SIDE			COMPONENT SIDE		

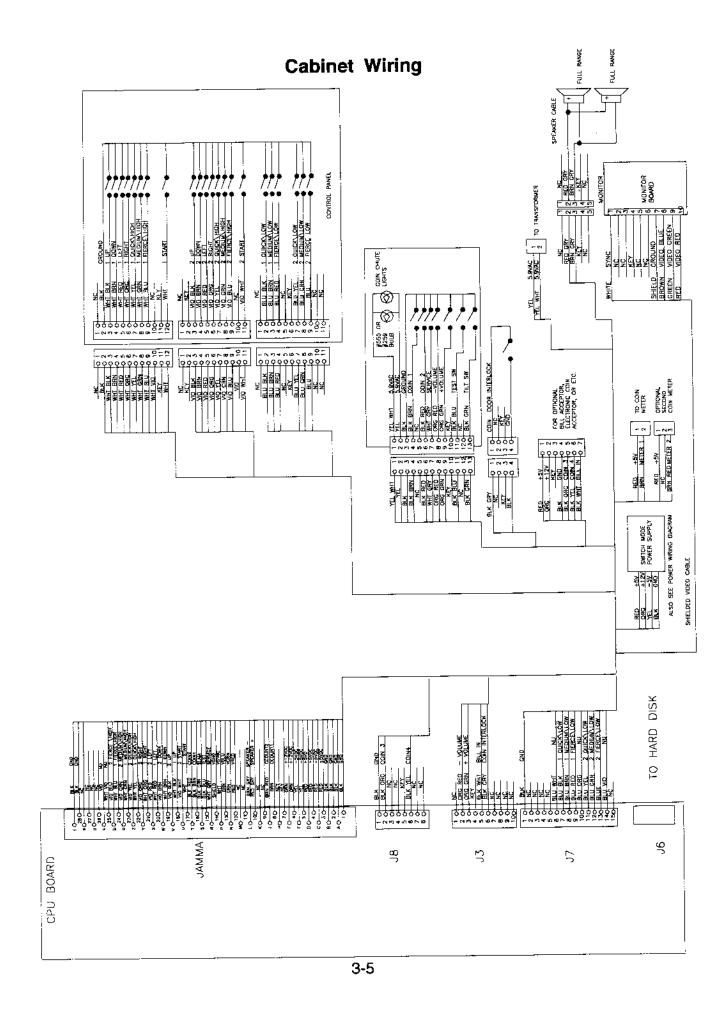
## Interboard Wiring



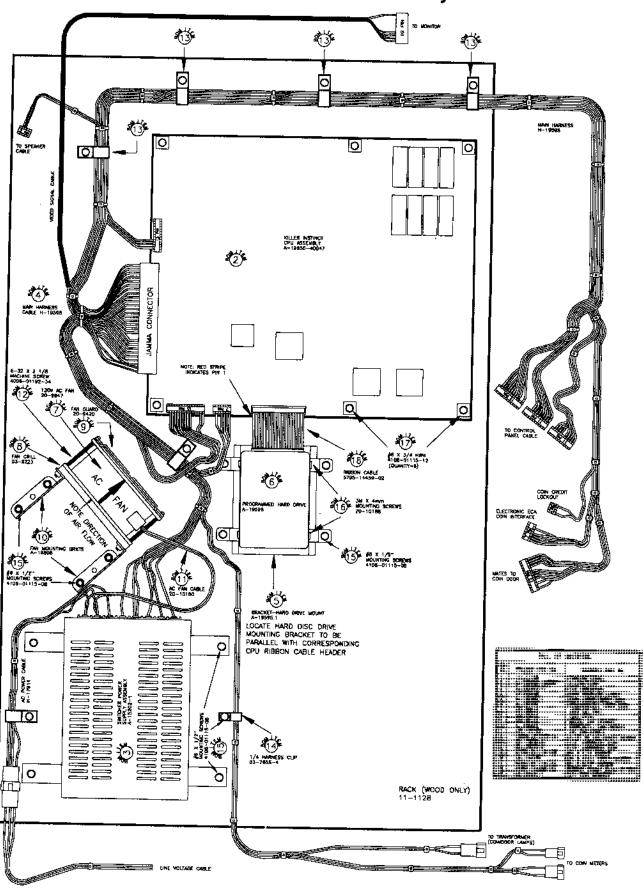


## **Transformer Chart**





## **Electronic Rack Assembly**



#### **CONTROL PANEL WIRE COLORS**

## Player One

Start White Up White-Black Down White-Brown Left White-Red Right White-Orange Quick/High White-Yellow Medium/High White-Green Fierce/High White-Blue Quick/Low Blue-Black Medium/Low Blue-Brown Fierce/Low Blue-Red

Black

## Player Two

Ground

Start Violet-White Up Violet-Black Down Violet-Brown Left Violet-Red Right Violet-Orange Quick/High Violet-Yellow Medium/High Violet-Green Fierce/High Violet-Blue Quick/Low Blue-Yellow Medium/Low Blue-Green Fierce/Low Blue Ground Black

#### **FUSES**

Line Fuse - (Domestic) 3A. S.B., 125V (Foreign) 2A. S.B., 250V

General Illumination - (Domestic & Foreign) 1A. S.B., 250V

## **WARNING & NOTICES**

#### WARNING

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#### WARNING

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