Operator's Manual









OPERATION

Before operating game, read this manual. Failure to properly install and operate this game could result in malfunction or accident. Operate the game in accordance with the manual.

TRANSPORTING

The cabinet is very heavy. Because the monitor is high, the cabinet is also very top-heavy. Use appropriate care when moving or transporting cabinet. It contains fragile glass and electronic components. Avoid rough handling.

HANDLING COMPONENTS

Many components are extremely sensitive to handling, environmental and Electrostatic Discharge (ESD) events—especially the computer. Do not handle it roughly. Before servicing, call your distributor and inquire about the PC warranty. Use proper ESD procedures when servicing. Protect components from harmful environmental conditions, such as extreme temperatures, excessive moisture or other damaging effects.

DISCONNECT POWER

Always turn the power off and unplug the unit before servicing or making adjustments unless otherwise instructed. Installing or repairing components while power is on can damage the components and void the warranty.

GROUNDING

Avoid electrical shock. Do not plug in AC power until you have inspected and properly grounded the unit. Only plug into a grounded, three-wire outlet. Do not use a "cheater" plug or cut off the ground pin on the line cord.

ELECTRICAL SHOCKS

There is no isolation transformer in the cabinet. Disconnect AC power before servicing. However, be aware that lethal voltages can remain in the electronic components even when AC power is disconnected. Use extreme caution when servicing. Verify that there is a working ground connection. If the unit sustains water damage, cease using it immediately and unplug AC power.

POWER CORD

If the power cord is damaged or lost, replace it with an identical cord as supplied by the manufacturer or an authorized service agent.

SURGE SUPRESSOR

It is recommended that you plug your game's power cord into a surge suppressor to help protect from power surges that may damage sensitive electronic components.

WATER AND OTHER LIQUID SOURCE

Do not install game near sprinkler or other water jet sources. Do not use water jet to clean game. Keep minimum clearance behind game and wall for proper ventilation but also prevent access of liquid from spills and sprays from entering ventilation holes.

CONNECTORS

When servicing machine, ensure all connectors mate properly. If connectors do not slip in easily, do not force them. Connectors are often keyed and only connect one way. Check for correct orientation.

COMPUTER

The computer contains sensitive components, including a hard drive. Do not handle it roughly. Call your distributor before servicing its internal components. Ask about warranty information as it relates to the PC.

Do not turn the PC power switch on or off. It should remain permanently in the ON position.

Cycle AC power on or off with the cabinet power switch.

A dongle has been inserted into one of the USB ports. This is required for game play.

Do not remove the dongle except for troubleshooting purposes.

HAZARD TO EPILEPTICS

A small portion of the population has an epileptic condition that may cause seizures. Affected persons experience seizure while watching some television pictures or playing certain video games. People who have not had seizures may still have an undetected epileptic condition. If anyone in your family has experienced epilepsy symptoms (seizures or loss of awareness), consult your physical before using video games. While children play video games, a parent should observe. Be alert to the following symptoms: dizziness, altered vision, eye or muscle twitching, involuntary movements, loss of awareness, disorientation or convulsions. If you or your child experiences these symptoms, discontinue use immediately and consult your physician.

MANUAL

Keep this manual available and ready for use. If the game fails to function properly, turn off the machine and unplug the AC line cord. Contact your local

distributor. Your warranty, when applicable, lasts 60 days from your purchase date. You may not reproduce this document or any of its contents without written authorization from Raw Thrills, Inc. or Play Mechanix[™] Inc.

SPECIFICATIONS

For reasons such as performance, this product's specifications may change without notice. Federal patent, copyright and other intellectual property laws protect the content, devices and design of the game and its equipment.

Product Specifications

Electrical Power

United States, international and Japan V Inrush AC Current: 5 Amps Operating AC Current: 5/2.5 Amps Voltage: 115/230 ~ VAC 50/60Hz

Pedestal Dimensions

Height: 41" (1.04 meters) Width: 33" (.83 meters) Depth: 28" (.71 meters)

Display Dimensions

(Assembled)

Height: 104" (2.6 meters) Width: 67" (1.70 meters) Depth: 28" (.71 meters)

FUSE REPLACEMENT GUIDE:

NOTE: FOR CONTINUED PROTECTION AGAINST FIRE AND ELECTRICAL DAMAGE, USE ONLY SPECIFIED FUSE TYPE AND VALUE.

RIO:

5VDC = 3A 250V SLO-BLO 12VDC = 5A 250V SLO-BLO

GAME LIGHTING:

5A 250V SLO-BLO (4X)

LED DISPLAY PANEL:

5A 250V SLO-BLO (9X PER PANEL)

Temperature

50° F to 104° F (10° C to 40° C)

Humidity

Must not exceed 95% relative humidity

Setup

Note: This manual is accompanied by a separate document: "Giant Pac-Man Display Assembly and Repair Document". Please refer to this document when installing, servicing and troubleshooting the LED display. Keep this and other documentation for future reference. Additional information regarding the latest version of software and documents can also be found on our website: <u>www.rawthrills.com</u> or www.bandainamco-am.com

Unpack Materials

- 1. Place the shipping crates on a flat, stable surface.
- 2. Cut the banding straps and remove the cardboard lids.
- 3. Lift off the large cardboard containers surrounding the front pedestal and monitor assemblies and remove any shipping cleats.
- 4. Remove the coin door key from the coin return slot.
- 5. Open the top coin door.
- 6. Locate the keys for the back door and the cash box door.
- 7. Open the cash box door and remove the cash box.
- 8. Check for shipping damage to the following:
 - Marquee and monitor
 - Cabinet decals
- 9. Check the AC line cord for visible signs of damage. Pay particular attention to the plug and line cord insulation.

Check Electrical Settings

- 1. Verify the voltage in the nearest AC outlet.
- 2. Verify the AC outlet ground connection is present and working.
- 3. Open the back door of the monitor assembly.
- 4. Route the line cord so that the plug is near the AC outlet.
- 5. Replace the back door of the monitor assembly.

Startup Game

- 1. Verify pedestal power switch is OFF and plug in line cord to pedestal AC outlet.
- 2. Plug in all four (4) LED screen quadrant lines cords to provided power strip.
- 3. Plug in LED screen power strip to AC outlet.
- 4. Power on power strip and LED screen quadrants.
- 5. Verify that all four LED screen quadrants are powered (power switches illuminate).
- 6. Turn the pedestal power switch to ON.
- 7. Verify game display, sound, lights and controls are operating normally.
- 8. Verify game display, sound, lights and controls are operating normally.

If not, turn off AC power and disconnect line cord. Refer to the diagnostic section of this manual.

Diagnostics and Adjustments

The Service Button Panel has four buttons, three of which can navigate the menu system.

But it is easiest to navigate with a Start button.



- Service Panel TEST/BACK button enters diagnostic system.
- Either Start button selects the highlighted option.
- Service Panel VOL DOWN button moves down through menu or setting choices.
- Service Panel VOL UP button moves up through menu or setting choices.
- Highlight and select Exit to return to previous screen.

An on-screen message acknowledges changes or when you exit a selection without making a change.

At the bottom of each screen there is a brief description of the menu option's function. A complete description is available here for all menu functions.

Basic Functional Test On Initial Power Up

See the Diagnostic Section for further information.

- 1. Enter the Switch Test menu and verify all switches function.
- 2. Enter the Sound Test menu and verify the audio works and is not distorted.
- 3. Enter the Coin Meter Test menu and verify the operation of the coin meter.
- 4. Enter the Cabinet Lamps Test menu and verify that all cabinet lights work correctly.
- 5. Enter the Watchdog Test menu, which reboots the game.
- 6. Upon a successful reboot, you are ready to make adjustments to pricing, volume and other functions found in the Adjustments, Audits and Diagnostics section.

Adjustments, Audits and Diagnostics

Main Menu

MAIN MENU DIAGNOSTICS PRICING ADJUSTMENTS GAME SETTINGS AUDITS UTILITIES VOLUME ADVERTISING EXIT

Main Menu

Diagnostics Menu

This menu allows all game functions to be verified or diagnosed.

DIAGNOSTICS MENU	
CRC CHECK	
SWITCH TEST	
LIGHTS TEST	
SOUND TEST	
COIN METER TEST	
TICKET TEST	
WATCHDOG TEST	
DONGLE SERIAL NUMBER	
EXIT	

You can improve collections by periodically verifying proper game function and operation. This includes periodic CRC checks to verify that software has not been corrupted or reporting an error.

Main Menu

Pricing Adjustments Menu

This allows customization of coin values, currency denominations, bill pulse and swipe credits.



Main Menu

Game Settings Menu

This menu allows for customization of target compensation. You can set your points conversion to tickets here.



Express Payout- when set to ON, allows for tickets to be dispensed as tickets are earned. When it is set to OFF, ticket payout is done after the completion of the current game.

Mercy Tickets- A mercy ticket awards at least 1 ticket to anyone who plays the game regardless of score while redemption mode is active. This feature can be deactivated.

Main Menu

Audits Menu

Audit screens help assess game performance, find intermittent problems, decide whether to adjust game difficulty and free game award and help maximize game earnings.



Main Menu

Utilities Menu

UTILITIES MENU
RESETS
COPY TO USB
LEADERBOARD SETTINGS
SCREEN BRIGHTNESS
TRADESHOW MODE
ATTRACT MODE
EXIT

in Menu

Volume



EXIT

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EXIT

in Menu

Volume

GAME VOLUME: 13/20 ATTRACT VOLUME: 7/20 CREDIT VOLUME: 17/20 MINIMUM VOLUME: 4/20

EXIT

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in Menu

Volume

GAME VOLUME: 13/20 ATTRACT VOLUME: 7/20 CREDIT VOLUME: 17/20 MINIMUM VOLUME: 4/20

EXIT



Advertising Menu



ADVERTISING IMAGE UPLOAD INSTRUCTIONS:

- 1. Add 1-3 images to a USB Flash Drive. Images should be tga, png, or jpg. For best quality, images should have a resolution of 224x288
- 2. Insert the flash drive into an empty USB slot and enter the Advertising Menu in the Test Menu
- 3. Select one of the 3 ad slots and then select load image
- 4. Navigate to to file you which to upload and select it
- 5. You will be presented with a preview of the image, which you can accept or decline
- 6. If accepted, the ad will now show up in the attract cycle
- 7. The "ad length" option allows you to adjust the length of time that your ad displays on screen

Dell 3050 BIOS

NOTICE

The PC ships with correct BIOS settings. Making changes to the BIOS different from the description below may adversely affect game functions.

Do **not** use the PC on/off **button**. Turn AC power on or off with the cabinet power switch.

To Access BIOS Settings:

With the computer powered off, hold 'F12' on the keyboard and turn the computer on. Continue holding the 'F12' key until a menu with a blue background appears. From the menu select 'BIOS Setup'

Main

Nothing

Advanced

- Intel (R) SpeedStep (TM)	[Enabled]
- Virtualization	[Enabled]
- Integrated NIC	[Enabled]
- SATA Operation	[AHCI]
- Adapter Warnings	[Enabled]

+ Miscellaneous Device

- Nothing
- + Power Options

 - - Auto Power On.....[Disabled]

Security

Nothing

Boot

- Boot List Option.....[Legacy]
- File Browser Add Boot Option
- File Browser Del Boot Option
- Secure Boot.....[Disabled]
- Load Legacy Option Rom......[Enabled]
- 1st Boot Priority......[USB Storage Device]

Exit

- Nothing

ELECTRICAL AND MECHANICAL

ILLUSTRATIONS

NOTE: PLEASE CHECK FOR THE LATEST VERSION OF GAME SOFTWARE AND MANUAL AT WWW. RAWTHRILLS.COM

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	601-00755-01	Pedestal Cabinet	1
2	1646A22	Black Handle (McMaster-Carr P/N: 1646A16)	1
3	600-01779-01	Metal Bump Out	1
4	800-00005-01	Mid-Width Coin Door Assembly (Suzo-Happ)	1
5	500-00162-50	White LED Strip w/ Foam Tape: 50CM / 30 LEDs	6
6	600-01757-01	Side PETG	2
7	500-00062-96	RGB LED "Great Wall" Rope : 96 CM	2
8	600-01760-01	Rear Side PETG	2
9	Control Panel Assembly	Control Panel Assembly	1
10	500-00062-24	RGB LED "Great Wall" Rope : 24 CM	2
11	600-01759-01	PETG LED Cover	2
12	600-01749-01	Bracket Under Control Panel - Right	1
13	600-01748-01	Bracket Under Control Panel - Left	1
14	RIO Hardware Assy	RIO Assembly (with Mounting Plate)	1
15	850-00023-01	Inspiron 3050 Mini PC	1
16	500-00193-01	Switching Power Supply: 320W, 12V, 26.7A, PFC (Mean Well)	1
17	AC Plate Assembly	AC Plate Assembly	1
18	800-00040-01	Solid State Relay - 6210AXXSZS-DC3 (Magnecraft)	1
19	2-1-18-00-00-000	8" Woofer, 4 Ohm, Poly-Mica Cone (Goldwood)	1
20	800-00001-00	120mm Wire Fan Guard	2
21	820-00012-00	Cooling Fan (standard size): 12VDC, 3W, 80CFM	1
22	Back Door Assembly	Back Door Assembly	1
NOT SHOWN	380-00002-01	LED Control Card	1





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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	601-00756-01	Control Panel Wood	1
2	603-00718-01 (92 in)	LED T-Molding Extrusion - 92"	1
3	600-01752-01	T-Mold Cap	1
4	Joystick Sub-Assembly (P1)	Joystick Sub-Assembly (P1-YELLOW)	1
5	Joystick Sub-Assembly (P2)	Joystick Sub-Assembly (P2-GREEN)	1
6	600-01755-01	Control Panel Mounting Plate	2
7	600-01780-01	Speaker Mounting Bracket	2
8	2-1-10-00-00-000	5.25", 8 Ohm Full Range Speaker (Goldwood)	2
9	702-00071-01	Large Round YELLOW Pushbutton	1
10	702-00007-01	Large Round GREEN Pushbutton	1
11	702-00072-01	White Pushbutton w/ Horizontal Microswitch	2
12	702-00073-01	Red Pushbutton w/ Horizontal Microswitch	2





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601-00756-01	Control Panel Wood	1				
603-00718-01 (92 in)	LED T-Molding Extrusion - 92"	1				
600-01752-01	T-Mold Cap	1				
Joystick Sub-Assembly (P1)	Joystick Sub-Assembly (P1-YELLOW)	1				
Joystick Sub-Assembly (P2)	Joystick Sub-Assembly (P2-GREEN)	1				
600-01755-01	Control Panel Mounting Plate	2				
600-01780-01	Speaker Mounting Bracket	2				
2-1-10-00-00-000	5.25", 8 Ohm Full Range Speaker (Goldwood) 2				
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702-00007-01	Large Round GREEN Pushbutton	1			(12)	
702-00072-01	White Pushbutton w/ Horizontal Microswitch					
702-00072-01		2				
702-00073-01	Red Pushbutton w/ Horizontal Microswitch	2				
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14 600-01751-01	Joystick Plate	1	15 800-00066-01 Happ 4-Way Joystick - GREEN 1		SHEET 1 of 1	REV

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	600-01501-01	RIO Mounting Plate	1
2	500-00040-01	RIO PCB	1
3	500-00194-01	5V, 5A Switching Regulator (12V input)	1



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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
ITEM NO. 4	PART NUMBER 600-01754-01	DESCRIPTION AC Plate	QTY.
ITEM NO. 4 5	PART NUMBER 600-01754-01 703W-00(slash)08	DESCRIPTION AC Plate AC Receptacle: 250V, 15A (Qualtek)	QTY. 1 1
ITEM NO. 4 5 6	PART NUMBER 600-01754-01 703W-00(slash)08 T9-611-5A	DESCRIPTION AC Plate AC Receptacle: 250V, 15A (Qualtek) Thermal Circuit Breakers: 240VAC, 5A, Snap-in, Fuseholder, 1-Pole (Schurter)	QTY. 1 1
ITEM NO. 4 5 6 7	PART NUMBER 600-01754-01 703W-00(slash)08 T9-611-5A 1832.3312	DESCRIPTION AC Plate AC Plate AC Receptacle: 250V, 15A (Qualtek) Thermal Circuit Breakers: 240VAC, 5A, Snap-in, Fuseholder, 1-Pole (Schurter) Rocker Switch (DPST): 250VAC, 20A (Marquardt)	QTY. 1 1 1 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
9	601-00757-01	Back Door Panel	1
10	150-00001-00	Standard Door Lock Assembly (for 3/4" Panels)	1
11	600-00043-01	Lock Retainer Plate	1





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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	NONE	FRAME ASSEMBLY	1
2	NONE	MARQUEE ASSEMBLY	1
3	900-00002-01	P7.62 4 X 9 ASSEMBLY	2
4	900-00001-01	P7.62 3 X 9 ASSEMBLY	2
5	600-01731-01	LOWER SIGN BOARD	1
6	600-01730-01	LOWER SIGN BRACKET	2
7	600-01728-01	PLANAR BRACKET - CENTER	1
8	90272A827	PLANAR BRACKET - SIDES	4
9	600-01684-01	PANEL HANGER BRACKET	8
10	McMASTER 91290A418	M8 X 16MM SOCKET HEAD CAP SCREW	16
11	McMASTER 98269A440	M5 WASHER	8
12	MCMASTER 95836A447	M5 X 8MM PHILLIPS HEAD SCREW	40

1	A	RELEASED	11/17/15
1 2	В	ADDED PART NUMBERS AND CHANGED QUANTITY OF ITEM 14	12/29/15
2	С	REVISED FOR METRIC PARTS	3/21/16
	D		5/19/16
		(4) (4) (4) (4) (5) (12) (11) (5) (12) (11) (5) (12) (11) (5) (12) (1	INC. SSEMBLY
		HOLES: +.002/-000 ANGLES: ±0.5° PART NO.	REV
		SHEET 1 of 1	D

DESCRIPTION

REV.

DATE

NOTES:

 ALL HARDWARE IS BLACK
 FOR SOME GAMES ALL SCREWS GOING INTO THE 4X9 AND 3X9 ASSEMBLIES WILL BE M4 X 8MM USE MCMASTER 95836A337 SCREW.

3 X 9 AND 4 X 9 PANEL ASSEMBLIES (4 X 9 SHOWN)

NOTES: 1) 3 X 9 PANEL IS PART NUMBER 900-00001-01 2) 4 X 9 PANEL IS PART NUMBER 900-00002-01 3) ASSEMBLIES MAY BE BUILT WITH EITHER M4 OR M5 SCREWS.



4 X 9 PANEL ASSEMBLY (WIRING NOT SHOWN)

4 X 9 PANEL ASSEMBLY



389

PANE

4X9

PANF

PART NUMBER

600-01690-01

600-01703-01

DESCRIPTION

CONTROLLER BRACKE

P7.62 3X9 METAL COVER

600-01692-01 POWER BOX BRACKET

600-01693-01 FUSE HOLDER PLATE



P7.62 MODULE (36)-



CONTROLLER BOARD ASSEMBLY

POWER BOX ASSEMBLY









Troubleshooting

Warning: Review safety chapter before making any adjustments to game.

Problem	Possible Cause	Solution
No video or bad video	Faulty HDMI/DVI cable or connection	Verify HDMI to DVI video cable connection between PC and LED controller card in pedestal (RT# 380-00002-01).
	Faulty network cable connection between pedestal and LED screen	Verify network cable connection between the LED controller card in pedestal (RT# 380-00002-01) and the network pass-through jack in the back of the pedestal. Verify network cable connection between the pedestal and the LED screen. To verify the pedestal network cable pass-through connector, plug the LED screen network cable directly into the LED control card (RT# 380-00002-01).
	LED quadrant not powered on	Verify that all four LED screen quadrant power supply boxes are switched to the "ON" position - the power supply fan will spin when powered on.
	Game booted before the LED screen was turned on	Make sure all four quadrants of the LED screen are powered. Leave the LED screen powered and power-cycle the pedestal. Always make sure to power the pedestal at the same time or after the screen. Never power the pedestal before the screen.
	Faulty network cable connection between LED screen quadrants	Verify network cables are connected between quadrants as shown in <figure< b=""> A Power cycle pedestal if any corrections are made.</figure<>

Problem	Possible Cause	Solution
Game will not power up.	Game not plugged in	Plug game into AC outlet.
	Game not turned on	Turn on main power switch.
	Game fuse is blown.	Check and replace fuse. See Specification page for fuse values.
	No power to receptacle	Test AC outlet and plug game into powered outlet.
	PC not turned on.	Turn PC power switch on. Ensure IEC cable tightly plugged in. Trace cable back to source to ensure

	continuity.
PC BIOS set incorrectly.	See BIOS Settings chapter.
Flash Drive Installer is left	Disconnect Flash Drive Installer
connected to PC.	

Buttons do not work	Faulty micro switch	Replace the micro switch on the
		button and re-test. Verify that the
		wires are connected to the correct
		spades on the micro switch
	Faulty wiring	Disconnect the cabinet from AC
		power. Verify that all wires are
		firmly connected to each button and
		the PCB. Verify that no wires are
		frayed or improperly shorting to
		ground. Verify that wires are
		connected to the correct
		spades on the micro switches.
	Faulty PCB	Ensure all connections to PCB are
		secure. Replace PCB if faulty.

Neither buttons nor audio work	PCB connected to faulty USB port (boot message may indicate not detected)	To test a USB port, turn off the game, disconnect the device from the port, and then connect the game dongle to the port. Reboot the game. A No Dongle message indicates the port is bad. If the game starts, the port is working. After the test, reconnect all devices to the
		correct USB ports and reboot.

No sound or bad sound	Bad connection	Check connection to speakers.
	Volume set too low	Use VOL UP button on Test panel to
		raise volume
	Faulty wiring	Verify all wires are firmly connected
		to the speakers, PCB, and green
		computer audio port. Verify that
		each wire is connected to the
		correct port and no wires are frayed
		or improperly shorting to ground.
	Blown speakers	Remove the grill and inspect each
		speaker for visible damage. Run the
		Sound Test from System Tests in the
		Operator Menu to verify each
		speaker is working.
	Reversed wires	A weak or low muffled sound is a
		sign of reversed speaker wires.
		Check for reversed wires on each
		speaker.

	Faulty PCB	To verify audio is working at the computer, connect stereo headphones to the green computer audio port.
Constant low audio hum	Faulty power supply	Check external DC supply and the PC supply.
	Open ground	Check all ground wires in cabinet. Ensure AC wall outlet is properly grounded

Game does not load.		
PC Drive test reports "bad" or		
"missing" files.		
Game fails to finish loading.	PC Drive failure	Recover hard drive.
After resetting, game still reports an		See Flash Installer Document or
error.		visit <u>www.rawthrills.com</u> for latest
		software version download.
Erratic game mode or attract mode.		
WARNING!		
Data Files Corrupted.		
(Game Operation May Become		
Unstable.)		
Use "Test" Switch to Enter Test		
Mode		
and Run "File Test."		
Press Start To Continue.		
Problem	Possible Cause	Solution
Game resets.	Bad file.	Run Flash Installer.

Coin meter does not click during Test.	No pulse to meter	Check wiring from meter to RIO board
	Faulty meter	Replace coin meter

Improper number of credits given	Incorrect setting in Adjustments	Adjust settings
when coins or bills are inserted		
	Faulty wiring	Disconnect cabinet from AC power.
		Verify wires are firmly connected to
		coin mech and bill validator and
		ground wires are properly
		connected. Verify no wires are
		frayed or shorting to ground.
	Faulty coin mech	Verify coin mech is not jammed.
		Ensure coin mech is properly
		aligned and latched to coin door.

Coin meter does not work	Blown fuse(s) on PCB	Replace 12vdc 5	A fuse(s) on PCB
Exits Test Mode every 3 seconds	Test button stuck in ON position	Slide or toggle b	utton off after Test
		Menu appears	
NO VIDEO message	Video cables not plugged in properly	Reattach and tig	hten power and
		video cable to di	splay adaptor.
		•	
No Signal	Video or network cable not secure	Check and secur	e cable.
	PC not turned on	Turn PC power s IEC cable tightly cable back to so continuity.	witch on. Ensure plugged in. Trace urce to ensure
Dongle Not Present	Dongle missing or disconnected	Find dongle cabl port	e and reseat in USB
	Faulty USB port	Insert dongle ca	ble in different USB
		port	
Connect RIO Board or		USB cable	Check USB
RIO Board Missing		disconnected	connection from PC to RIO board
		No power to	Check for proper

RIO board

voltage (+5V, +12V) at RIO P1 connector

NETWORK CABLE CONNECTIONS

NETWORK CABLES MUST BE CONNECTED IN THE ORDER SHOWN BELOW



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LED Display Troubleshooting

ISSUE	POSSIBLE PROBLEM	SOLUTIONS
Defective single pixel	Defective LED module	 Tap gently on defective pixel Replace LED module
Several defective pixels, but not all in the same row or same column	Defective LED module	Replace LED module
Entire row or column of defective pixels	Faulty data transmission	 Check ribbon cable between malfunctioning module and module to the left (from the back) Check/replace module to the left (from the back) If module is left-most in quadrant (from the back): Check ribbon cable between module and LED display controller. Check quadrant LED display controller
	Defective LED module	Replace LED module
Entire module malfunctioning	Faulty data transmission	 Check ribbon cable between malfunctioning module and module to the left (from the back) Check/replace module to the left (from the back) If module is left-most in quadrant (from the back): Check ribbon cable between module and LED display controller. Check quadrant LED display controller
	Bad power	Check power connection to LED module Check quadrant fuse block for blown fuse
	Defective LED module	Replace LED module
Entire row of modules in quadrant malfunctioning	Faulty data transmission	 Check ribbon cable between left-most (from the back) LED module and LED display controller Check quadrant LED display controller
	Bad power	 Check quadrant fuse block for blown fuse Check power connection to all LED modules in malfunctioning row

Screen Note- World's Largest Pac-Man uses over 65,000 LEDs on its giant screen. It is normal for a few LEDs to fail over the course of operating the game. This will not effect normal operation or viewing of the game and most will not be noticeable to the eye.

Note: This manual is accompanied by a separate document: "Giant Pac-Man Display Assembly and Repair Document". Please refer to this document when servicing and troubleshooting the LED display. Additional information regarding the latest version of software and documents can also be found on our website: <u>www.rawthrills.com</u> or <u>www.bandainamco-am.com</u>

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