Choppy Wood™ Operator's Manual







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Safety

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 Suppressor

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 Sources

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 seizures 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 physician 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.

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 Specification

Electrical Power

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

Cabinet Dimensions

Height: 106.5" (2.71 meters) Width: 31.75" (0.81 meters) Depth: 41.0" (1.04 meters)

Operating Temperature

50° F to 104° F (10° C to 40° C)

Operating Humidity

Must not exceed 95% relative humidity.

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 (x4)

Setup

Unpack Materials

- 1. Place the shipping crate on a flat, stable surface.
- 2. Cut the banding straps and remove the cardboard lid.
- 3. Lift off the large cardboard containers surrounding the cabinet assembly 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 doors 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.

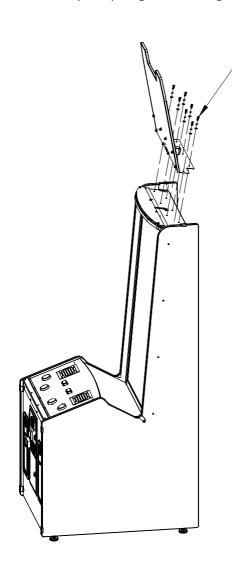
 Pay particular attention to the plug and line cord insulation.

Check Electrical Settings

- 1. Verify the voltage in the nearest AC outlet.
- 2. Verify the AC outlet ground connection is present and working.

Cabinet Assembly Instructions

- 1. Place cabinet in desired floor location. Setup a ladder next to the cabinet for marquee installation.
- 2. Locate the marquee assembly as well as the following hardware: (7) black tamper proof Torx machine screws, ¼-20 thread, 3/4" long, and (7) ¼" black split lock washers, and (7) ¼" black flat washers.
- 3. Using a T-27 bit, securely mount the marquee assembly to the top panel of the cabinet as shown in the assembly setup diagram, avoiding any pinching/crushing of the wire harness in the process.



7 Places:

- 1/4"-20 x 3/4" TP-TORX (TT27) BH
- 1/4" Split Lock Washer
- 1/4" Flat Washer (17/64" ID, 5/8" OD)

Startup Game

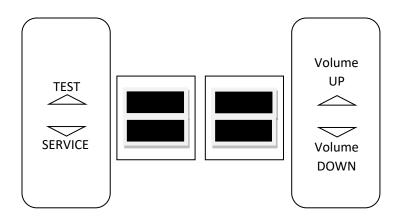
- 1. Plug in line cord to AC outlet.
- 2. Turn the power switch to ON.
- 3. Verify game display, sound, lights and controls are operating normally.

 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.

The start and chop buttons can also advance through test menu screens.



Navigating the Test Menu					
Button	Action				
TEST/BACK (Not in Test Menu)	Enters Test Menu				
TEST/BACK (In Test Menu)	Selects Highlighted Option				
SERVICE (On Main Menu)	Exits Test Menu				
SERVICE (Not on Main Menu)	Cancels Selection				
VOLUME UP	Move Up				
VOLUME DOWN	Move Down				
START BUTTONS Selects Highlighted Option					

Basic Functional Test on Initial Power Up

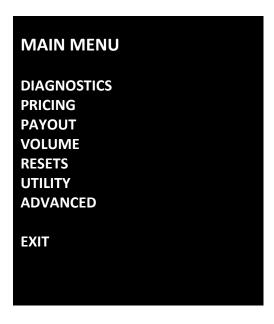
See the Diagnostic Section for further information.

- 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 adjust pricing, volume and other functions found in the Adjustments, Audits, and Diagnostics section.

Test Menus

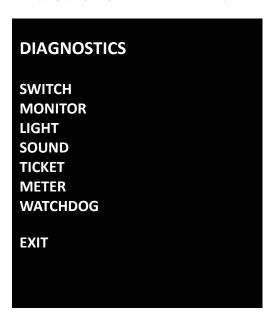
Main Menu

Choose from all available operator settings and menus here. You can use the test menu bracket and volume buttons to navigate. The chop buttons and start buttons are also available to use for easier navigation through the menus.



Diagnostics

This menu allows all game functions to be verified or diagnosed. You can improve collections by periodically verifying proper game function and operation.



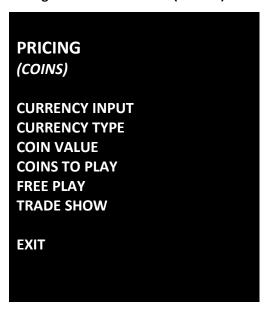
(Diagnostics Menu Continued from Previous Page)

- <u>Switch</u> Tests all the switches in the game in this diagnostic screen (Buttons, coin, test bracket, etc.)
- Monitor- Tests the monitor color and screen functionality
- Light- Tests all LED cabinet lighting
- **Sound** Tests the audio on the speakers and woofer (100hz and 1000hz test.)
- <u>Ticket</u> Tests the functionality of the ticket mech
- Meter- Tests the "hard" coin meter inside the cabinet
- <u>Watchdog</u>- Tests the functionality of the watchdog reset (If watchdog is functioning properly, game will reboot)

Pricing

This allows customization of coin values, currency denominations, and swipe value.

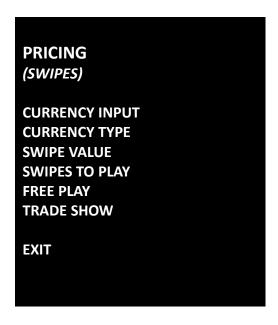
Pricing - Coins Active Menu (Default)



- <u>Currency Input</u>: Choose between: Tokens, Swipes, or Currency.
- <u>Currency Type</u>: Choose between: USD, Euro, GBP, YUAN (RMB).
- <u>Coin Value</u>: Money value of a coin. <u>This is a very important setting and impacts payout</u>. Default value: \$0.25.
- Coins to Play: Number of coins per credit.
- Free Play: No coins or swipes needed to play.
- <u>Trade Show</u>- Turn this mode on when operating on a trade show, sales floor, or demo floor. The game runs on free play and simulates ticket payouts without a ticket error appearing on the screen.

(Pricing Menu Continued from Previous Page)

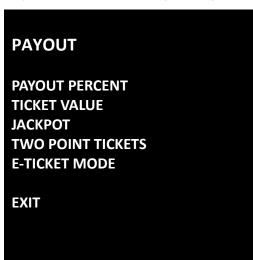
Pricing – Swipes Active Menu



- <u>Currency Input</u>: Choose between: Tokens, Swipes, or Currency.
- Currency Type: Choose between: USD, Euro, GBP, YUAN (RMB).
- **Swipe Value**: Money value of a swipe. Default value: "\$1.00". This is a very important setting and impacts payout.
- Swipes to Play: Number of swipes per credit <u>This setting is locked at 1 Swipe per credit.</u>
- <u>Free Play</u>: No coins or swipes needed to play.
- <u>Trade Show</u>- Turn this mode on when operating on a trade show, sales floor, or demo floor. The game runs on free play and simulates ticket payouts without a ticket error appearing on the screen.

Payout

This menu allows for customization of target compensation, payout percentage, ticket value, E-ticket support (Paperless Tickets), and Jackpot compensation.



(Payout Settings Continued from Previous Page)

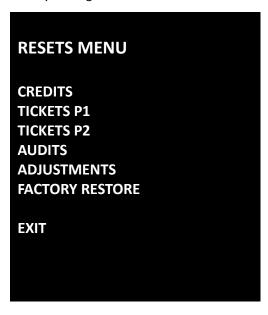
- Payout Percent- Set your targeted payout percentage. 40% is the recommended payout setting when your pricing is at least \$1.00. IMPORTANT NOTE- *Choppy Wood* has a dynamic targeted payout system in place but it is a skill based redemption game. There will be some slight volatility and variation in payout among different skill level players.
- <u>Ticket Value</u>- Set the value of your tickets. Default value is "\$0.01" and is the recommended setting.
- <u>Jackpot</u>- The "Axe-Pot" (Jackpot) number on the tree changes and the customer wins the amount shown at the moment the Axe-Pot is reached. Operators can adjust the max jackpot in the test menu settings by accessing the "Payout Settings" menu. You will have a choice between various 3 number combos listed for the Axe-Pot to rotate:
 - o 1000, 250, 100 (group 1)
 - o 500, 250, 100 (group 2)
 - o 100, 20, 10 (group 3)

Choose the jackpot number grouping that best suits your location. Recommended settings are, Group 2 for \$1.00+ per play locations and Group 3 for \$0.25 per play locations. (Note - It is not recommended to raise the max jackpot to extremely high levels like 1000 or 500 if you plan on operating the game at a very low target payout percent. Doing so will limit the number of jackpots awarded and decrease the fun factor for the customer.)

- <u>Two Point Tickets</u>- When set to ON, this setting allows a single ticket dispensed to be worth 2 points in the game. This setting defaults to OFF.
- E-Ticket Mode- Raw Thrills supports the use of paperless tickets or "E-TICKETS" with our new "E-Ticket Mode". If you are using digital tickets via a card based system like Embed, Intercard, Semnox or equivalent system, you will need to activate E-Ticket Mode. This mode provides E-Ticket support to a 2-player simultaneous play experience like *Choppy Wood*. It splits the credits and E-ticket payout to the Player 1 and Player 2 sides of the game to two separate card swipers. Each player's payout and credits will be properly divided to the corresponding player's card.

Resets Menu

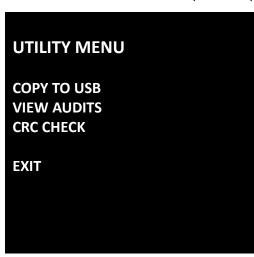
All operator resets are available in this menu. Credits, tickets, audits, adjustments, are all accessible here. You can also factory reset the game from this menu which will restore all settings in the game to their original factory settings.



- Credits- Reset all credits to zero
- Tickets P1- Reset tickets won on the player 1 side
- Tickets P2- Reset tickets won on the player 2 side
- Audits- Reset all game audits to zero
- Adjustments Reset all operator adjustments
- Factory Restore- Restores all settings and adjustments in the game to their original factory settings.

Utility Menu

Utilities is a miscellaneous menu of operator tools and settings. This includes periodic CRC checks to verify that software has not been corrupted or reporting an error.



(Utilities Menu Continued from Previous Page)

- Copy to USB- Allows you to upload your audits to an easy to read text file (.TXT) on a USB flash drive
- <u>View Audits</u>- Audit screens help assess game performance, find intermittent problems, decide whether to adjust game difficulty and game award, and help maximize earnings.
- **CRC Check** Checks for errors in the game's files

Volume



- Game- Adjusts the volume level during gameplay
- Attract Adjusts the volume during the attract mode sequences
- <u>Coin</u>- Adjusts the volume level of the credit chime only (Independent setting of game and attract volume)
- Minimum Volume Adjusts the minimum floor the volume can be lowered
- <u>Mode</u>- This allows you to set how frequently you want the volume to play during the attract mode. Choose from "None", "Occasionally", and "Always".

Advanced

The advanced menu for *Choppy Wood* allows you to customize some gameplay features.



- **Game Mode** Select between "Beginner" mode and "Normal" mode. Choose the mode that is best suited for your location.
 - o <u>Beginner</u>- Slightly easier gameplay difficulty, shorter gameplay time, tailored for a younger clientele, and low per game price point.
 - Normal- Longer play time, tailored for a more diverse audience, and a higher per game price point.
- <u>Intro</u>- Turns on/off the quick tutorial intro at the beginning of each game. Default value is "On" and is the recommended setting.

Keys to Maximizing Earnings and Collections

Card Swipe Locations

- Make Sure Your Game is Set to **Swipes Mode**:
 - 1. Hold the Test Button for 2 seconds to enter the Test Menu.
 - 2. Select "Pricing" from the menu.
 - 3. Select "Currency Input" from the menu.
 - 4. Select "Swipes" from the menu.
 - 5. Set "Swipe Value" to the currency equivalent of your swipe, <u>or the payout will be incorrect</u>.

 THIS SETTING IS EXTREMELY IMPORTANT! (Example: If the card swipe is worth \$1.50 in your card system, set the swipe value to \$1.50 as well)

E-Ticket Locations

- Make Sure Your Game is Set to *E-Ticket Mode*:
 - 1. Hold the Test Button for 2 seconds to enter the Test Menu.
 - 2. Select "Payout" from the menu.
 - 3. Select "E-Ticket" and set to "On"

<u>IMPORTANT NOTE</u>: You must have two card swipers for E-Ticket mode to work. One for Player 1 side and one for Player 2 side.

Coin Locations

- Make Sure Your *Pricing* & *Coin Value* are Correct:
 - 1. Hold the Test Button for 2 seconds to enter the Test Menu.
 - 2. Select "Pricing" from the menu.
 - 3. Select "Coins to Play" and set the desired amount of coins per game Choppy Wood™.
 - 4. After setting the coins per play, set "Coin Value" to the currency equivalent of your coin, <u>or the</u> payout will be incorrect.

THIS SETTING IS EXTREMELY IMPORTANT! (Example: If your coin is worth \$0.25, set "Coin Value" to \$0.25 as well)

2 Point Ticket Locations

- Make Sure the **2 Point Ticket** Setting is Activated:
 - 1. Hold the Test Button for 2 seconds to enter the Test Menu.
 - 2. Select "Payout" from the menu.
 - 3. Select "Two Point Ticket" and set to "On". (Your tickets are now worth 2Pts each)

IMPORTANT NOTE: Only use this setting if your tickets are worth <u>2 points per ticket</u> or the payout will be incorrect.

<u>More Tickets = More Fun = Better Earnings</u>

- We recommend using the default payout setting of 40% to maximize earning potential and fun factor for the players. To set the "Payout Percentage":
 - 1. Hold the Test Button for 2 seconds to enter the Test Menu.
 - 2. Select "Payout" from the menu.
 - 3. Select "Payout Percent" and adjust to desired amount.

IMPORTANT NOTE: Choppy Wood™ will dynamically adjust to your desired payout setting.

Choose Mode of Play Best Suited for Your Location

- There are two games to choose from:
 - o Beginner Best suited for a younger audience.
 - o Normal Best suited for a more diverse audience.
- To set the "Game Mode":
 - 1. Hold the Test Button for 2 seconds to enter the Test Menu.
 - 2. Select "Advanced" from the menu.
 - 3. Choose between "Normal" and "Beginner".

PC Hardware

Your Choppy Wood[™] game may ship with either a **DELL INSPIRON 3050** computer or a **Fujitsu IMP-3313-S4-4G-HD Mini PC computer** ("Fujitsu Mini PC"). The Dell Inspiron 3050 computer is square in shape has a "Dell" logo on it while the Fujitsu computer is rectangular in shape and has no logo. Listed below are the BIOS settings for each computer.

NOTICE

Both the **DELL INSPIRON 3050** and **FUJITSU MINI PC** ship with correct BIOS settings. Making changes to the BIOS different from the description below may adversely affect game functions.







(Above-Fujitsu Mini PC)

Fujitsu Mini BIOS

To Access BIOS Settings:

With the computer powered off, plug a USB keyboard into an open USB slot, hold 'F2' key and turn the computer on. Continue holding the F2 key until the BIOS Setup screen appears.

Note: All settings that are not listed should remain their default values

Advanced

- + Graphics Configuration
 - Internal Graphics[Enabled]
 - Primary Display......[IGD]
 - IGD Memory [512M]

Power

- Power Failure Recover [Always ON]

Boot

Prefer USB Boot.....[Enabled]

Note: After exiting BIOS settings screen, power-cycle the cabinet by using the cabinet's main power switch.

Dell Inspiron 3050 BIOS

To Access BIOS Settings:

With the computer powered off, plug a USB keyboard into an open USB slot, hold 'F12' key 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® SpeedStep™	[Enabled]
-	Virtualization	[Enabled]
-	Integrated NIC	[Enabled]
-	SATA Operation	[AHCI]
-	Adapter Warnings	[Enabled

- + Miscellaneous Device
 - Nothing
- + Power Options
 - Wake Up by Integrated LAN [Disabled]
 - AC Recovery.....[Enabled]
 - 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

<u>Note</u>: After exiting BIOS settings screen, power-cycle the cabinet by using the cabinet's main power switch.

PC Hard Drive Recovery

Symptoms requiring PC hard drive recovery include

- File Test reports bad or missing files.
- Game fails to finish loading during startup.
- After resetting the AC power, an error is reported.
- Erratic Game or Attract Mode.
- The following screen:



The only way to repair corrupt files is to reinstall the software as described below:

Computer

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

Do **not** use the PC on/off switch. Turn AC power on or off with the cabinet power switch. Steps to Re-install the software:

(NO DVD Restoration. USB Thumb Drive is used on the Dell Inspiron 3050 PC or Fujitsu Mini)

- 1. With game and PC on, verify that the RIO board has power. If not, see Troubleshooting.
- 2. Open the coin door
- 3. Insert the recovery USB thumb drive (included in your game) into the USB port on the Test button bracket inside the coin door.
- 4. Turn cabinet power switch to OFF. Wait 30 seconds.
- 5. Turn cabinet power switch to ON.
- 6. Select the Choppy Wood™ restore version from the menu and follow on screen instructions.
- 7. If recovery does not begin, check to ensure USB Drive is inserted correctly and is not damaged.
- 8. Initial software loading may take several minutes. Check progress periodically. *Do not interrupt power or reset the game during recovery.*
- 9. When software has been loaded, a message indicates that restore is complete. When instructed to remove USB Drive, wait 15 seconds to remove the drive from the PC.
- 10. Turn cabinet power switch off and then turn the cabinet on again. Your game will now be restored.

Troubleshooting

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

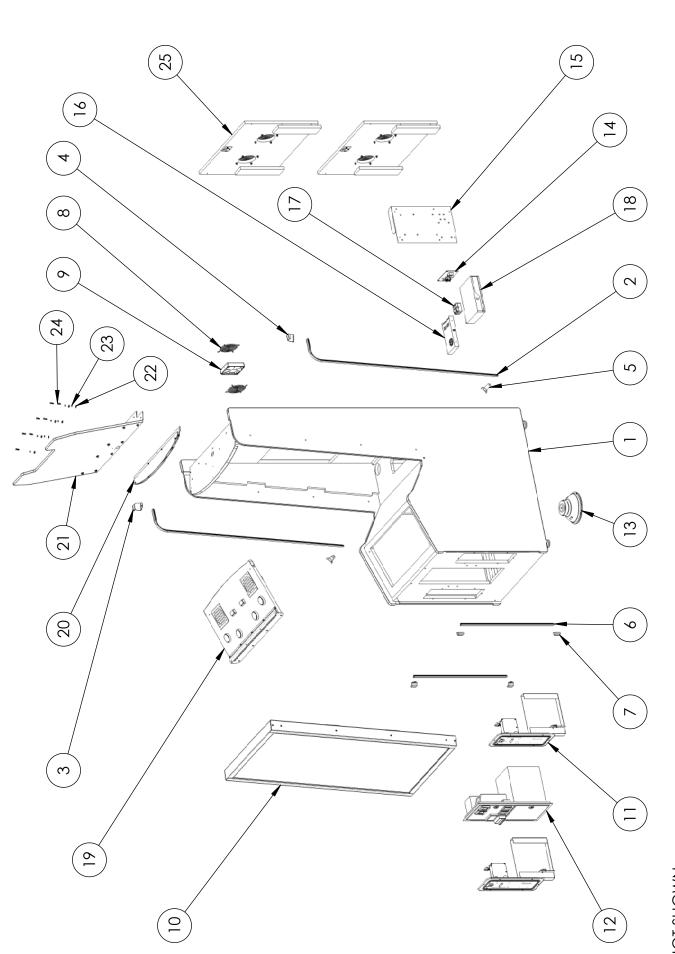
Problem	Possible Cause	Solution
	Game not plugged in.	Plug game into AC outlet.
	Game not turned on.	Turn on main power switch.
Game will not power up.	Game fuse is blown.	Check and replace fuse. See Specification section for fuse values.
	No power to receptacle.	Test AC outlet and plug game into powered outlet.
	PC BIOS set incorrectly.	See BIOS Settings section.
	Flash Drive Installer is left connected to PC.	Disconnect Flash Drive Installer and power cycle the game.
	I	Dealers the action with an the
	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.
Buttons do not work.	Faulty wiring.	Disconnect the cabinet from AC power. Verify that all wires are firmly connected to each button and the RIO. 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 RIO.	Ensure all connections to RIO are secure. Replace RIO if faulty.
Neither buttons nor audio work.	RIO 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.

Problem	Possible Cause	Solution	
	Bad connection.	Check connection to speakers.	
		Use VOL UP button on Test panel	
	Volume set too low.	to raise volume	
		Verify all wires are firmly	
		connected to the speakers, RIO,	
		and green computer audio port.	
	Faulty wiring.	Verify that each wire is	
		connected to the correct port and	
		no wires are frayed or improperly	
		shorting to ground.	
		Remove the grill and inspect each	
No sound or bad sound.		speaker for visible damage. Run	
	Blown speakers.	the Sound Test from System Tests	
		in the	
		Operator Menu to verify each	
		speaker is working. A weak or low muffled sound is a	
		sign of reversed speaker wires.	
	Reversed wires.	Check for reversed wires on each	
		speaker.	
		To verify audio is working at the	
		computer, connect stereo	
	Faulty RIO.	headphones to the green	
		computer audio port.	
		·	
	Faulty power supply.	Check external DC supply and the	
	i auity powei suppiy.	PC supply.	
Constant low audio hum.		Check all ground wires in cabinet.	
	Open ground.	Ensure AC wall outlet is properly	
		grounded	
Company of the control of the contro		I	
Game does not load.			
PC Drive test reports "bad" or "missing" files.	PC hard drive failure.	Recover hard drive.	
Game fails to finish loading.			
After resetting, game still reports			
an error.			
Erratic game mode or attract		See Flash Installer Document or	
mode.		visit www.rawthrills.com for latest software version download.	
WARNING!			
(Game Operation May Become			
Unstable.)			
Use "Test" Switch to Enter Test			
Mode and Run "File Test."			
WARNING! Data files Corrupted. (Game Operation May Become Unstable.) Use "Test" Switch to Enter Test		latest software version	

Problem	Possible Cause	Solution
Game Resets	Bad file.	Run USB Flash Installer to
dame resets	Bau IIIe.	reinstall game software.
	No pulse to meter.	Check wiring from meter to RIO
Coin meter does not click during		board.
test.	Faulty meter.	Replace coin meter.
	Blown fuse(s) on RIO	Replace 12vdc 5A fuse(s) on RIO.
Г	I	
	Incorrect setting in Pricing Adjustments.	Adjust pricing settings.
Improper number of credits given 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.
	I	Clida anta sala buttan aff aftan
Exits Test Mode every 3 seconds.	Test button stuck in ON position.	Slide or toggle button off after Test Menu appears
		rest iviend appears
NO VIDEO message	Video cables not plugged in properly.	Reattach and tighten power and video cable to display adaptor.
	Video cable not secure.	Reattach and tighten power and video cable to display adaptor.
No Signal	PC not turned on.	Turn PC power switch on. Ensure IEC cable tightly plugged in. Trace cable back to source to ensure continuity.
Dongle Not Dresent	Dongle missing or disconnected.	Find dongle cable and reseat in USB port.
Dongle Not Present	Faulty USB port.	Insert dongle cable in different USB port.
Connect RIO Board or RIO Board	USB cable disconnected.	Check USB connection from PC to RIO board.
Missing.	No Power to RIO board.	Check for proper voltage (+5V, +12V) at RIO P1 connector.

Electrical and Mechanical Illustrations

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



Choppy Wood Assembly - 55" LCD (BOM on next page)

NOT SHOWN:
> Selective Hardware
> 500-00131-01 - RGB LED Strip Reel
- 2X 140CM / 84 LEDs (installed in #2)
- 2X 65CM / 39 LEDs (installed in #6)

Choppy Wood Assembly - 55" LCD: BOM

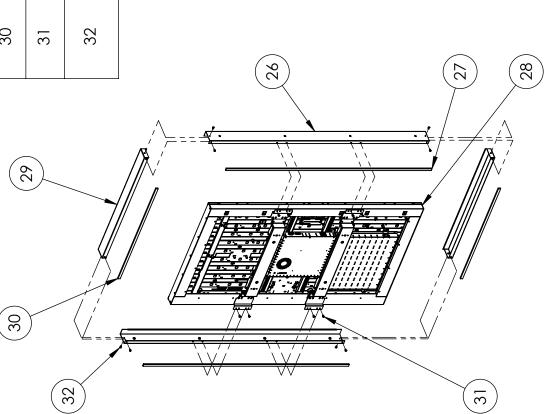
ITEM NO.	PART NUMBER	DESCRIPTION	QIY.
_	601-00769-01	Choppy Wood Cabinet	_
2	603-00718-01 (55.5 in)	LED T-Molding Extrusion - 55.5"	2
က	600-01717-01	Left Side Panel T-Molding Clip	_
4	600-01718-01	Right Side Panel T-Molding Clip	_
2	600-01939-01	Flanged LED T-Molding Clip	2
9	603-00718-01 (25.75 in)	LED T-Molding Extrusion - 25.75"	2
7	600-01942-01	LED T-Molding Clip	4
∞	800-00001-00	120mm Wire Fan Guard	2
6	820-00012-00	Cooling Fan(standard size): 12VDC, 3W, 80CFM	_
10	55-LCD_Assy	55" LCD Assembly	_
11	800-00043-01	Ticket Dispenser Door Assembly (Suzo-Happ)	2
12	800-00005-01	Mid-Width Coin Door Assembly (Suzo-Happ)	-
13	2-1-18-00-00-000	8" Woofer, 4 Ohm, Poly-Mica Cone (Goldwood)	_
14	AC_Plate_Assy	AC Power Plate Assembly	_
15	RIO_Hardware_Assy	RIO Assembly (with Mounting Plate)	_
16	500-00193-01	Switching Power Supply: 320.4W, 12V, 26.7A, PFC (Mean Well RSP-320-12)	_
17	800-00040-01	Solid State Relay (Magnecraft 6210DSX-1)	-
18	850-00024-01	Fujitsu PC (IMP-3313-S4-4G-HD)	_
19	Choppy_Control_Panel_Assy	Control Panel Sub-Assembly	1
20	Choppy_Marquee_Light_Assy	Marquee Light Sub-Assembly	1
21	Choppy_Marquee_Assy	Marquee Sub-Assembly	1
22	McMaster-Carr - 97416A119	Black-Oxide Steel SAE Flat Washer, 1/4" Screw Size, 0.281" ID, 0.625" OD	7
23	McMaster-Carr - 93711A500	Black Oxide 18-8 Stainless Steel Split Lock Washer for Socket Head Cap Screw, 1/4" Screw Size, 0.260" ID	7
24	McMaster-Carr - 96075A219	Alloy Steel Tamper-Resistant Torx Rounded Head Screws, 1/4"-20 Thread Size, 3/4" Long	7
25	Choppy_Back_Door_Assy	Back Door Sub-Assembly	2



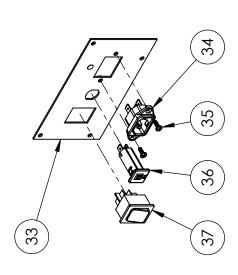
200

Choppy Wood 55" LCD Assembly

ITEM NO. PART NUMBER		DESCRIPTION	QTY.
600-01845-01		55" LCD Frame Long Bracket	2
Monitor_Foam_Tape S (47.25)	(V)	Monitor_Foam_Tape Single Side Adhesive: .25" T x .50" W x (47.25)	2
809-00012-01		55" Open Frame LCD (with Glass)	1
600-01846-01		55" LCD Frame Short Bracket	2
Monitor_Foam_Tape (26.5)	0)	Monitor_Foam_Tape Single Side Adhesive: .25" T x .50" W x (26.5)	2
McMaster-Carr - 90272A192		Steel Phillips Rounded Head Screws, 8-32 Thread Size, 3/8" Long	12
McMaster-Carr - 91249A192	ш_	Phillips Rounded Head Screw, Black- Oxide 18-8 Stainless Steel, 8-32 Thread Size, 3/8" Long	4



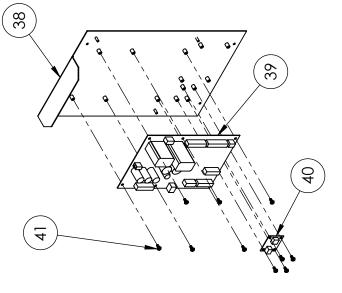
EM NO.	PART NUMBER	DESCRIPTION	QTY.
33	600-01681-01	AC Electronics Plate	_
34	703W-00/08	AC Receptacle: 250V, 15A (Qualtek)	_
35	McMaster-Carr - 90272A146	Steel Phillips Rounded Head Screws, 6-32 Thread Size, 3/8" Long	2
36	36 T9-611P-6	Thermal Circuit Breaker: 240VAC, 6A, Snap-in, Fuseholder, 1-Pole (Schurter)	_
37	1832.3312	Rocker Switch (DPST): 250VAC, 20A (Marquardt)	_





Choppy Wood AC Power Plate Assembly

QTY.	1	1	1	10
DESCRIPTION	RIO Mounting Plate (w/ Motion Control PCB)	RIO PCB	5V, 5A Switching Regulator PCB (12V input)	18-8 Stainless Steel Hex Washer Head Slotted Machine Screw, 8-32 Thread, 3/8" Length
TEM NO. PART NUMBER	600-01501-01	500-00040-01	500-00194-01	McMaster-Carr - 90316A192
ITEM NO.	38	39	40	41





Choppy Wood RIO Assembly (with Mounting Plate)

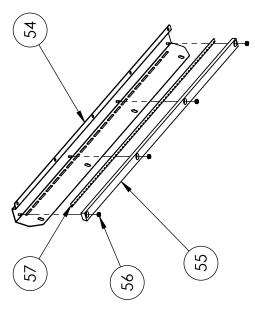
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(601-00792-01 Control Panel
Control Panel	
Large Round IPB - RED	702-00015-01 Large Round IPB -
Large Round IPB - BLUE	702-00019-01 Large Round IPB -
Large Rectangular IPB - GREEN, "START"	702-00074-01 Large Rectangular IPB - GF
included with IPBs	Screw-in Ring Nut
Speaker Mounting Bracket	600-01780-01 Speaker Mounting Br
5.25", 8 Ohm Full Range Speaker (Goldwood)	2-1-10-00-00-000 5.25", 8 Ohm Full Range Speal
Zinc-Plated Steel SAE Flat Washer, Number 10 Screw Size, 0.219" ID, 0.500" OD	McMaster-Carr - Zinc-Plated Steel SAE Flat Wasl 90126A011 Screw Size, 0.219" ID, 0.
Low-Strength Steel Nylon-Insert Locknut, Zinc- Plated, 10-32 Thread Size, 3/8" Wide, 15/64" High	McMaster-Carr - Low-Strength Steel Nylon-Inser 90631A411 Plated, 10-32 Thread Size, 3/8" V
Control Panel Light Sub-Assembly	Choppy_Control_ Panel_Light_Assy
Black-Oxide Steel SAE Flat Washer, Number 8 Screw Size, 0.188" ID, 0.438" OD	McMaster-Carr - Black-Oxide Steel SAE Flat Was Szew Size, 0.188" ID, 0.
Alloy Steel Tamper-Resistant Torx Rounded Head Screws, 8-32 Thread Size, 3/4" Long	McMaster-Carr - Alloy Steel Tamper-Resistant 7 96075A143 Head Screws, 8-32 Thread Siz



Control Panel Sub-Assembly

PART NUMBER	DESCRIPTION	ON QTY.
54 600-01866-01	CP Edge Bracket	acket
55 603-00799-01	Edge Diffuser Acrylic	Acrylic
McMaster-Carr - Stee 90675A007 2	steel Locknut with External-Tooth Lock Washer, Zinc-Plated, 6-32 Thread Size, 5/16" Wide	-Tooth Lock Washer, 1 Size, 5/16" Wide
500-00216-01 (70 CM) RC	RGB Side Emitting LED Strip Reel - 90LED/M: 70CM / 63 LEDs	ip Reel - 90LED/M: LEDs

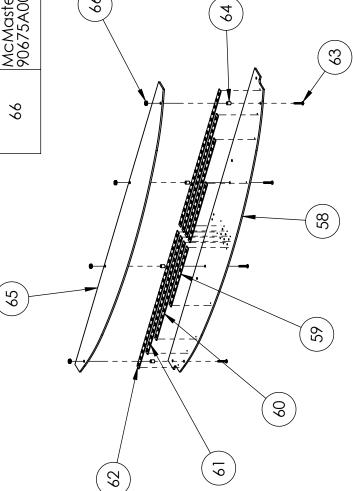




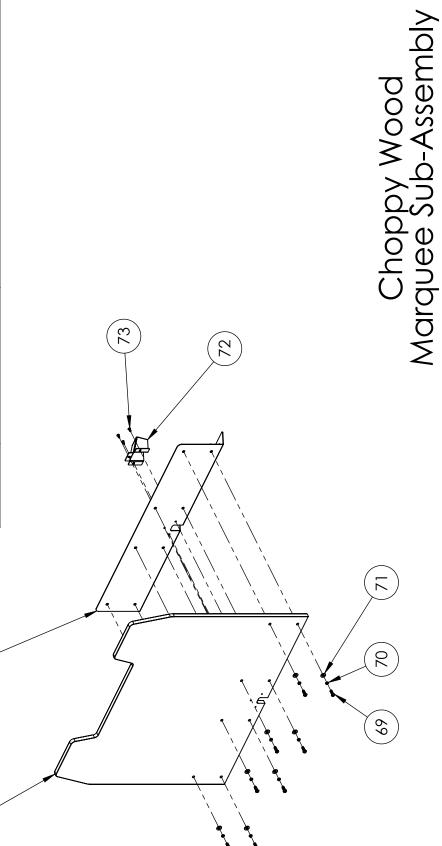
Control Panel Light Sub-Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
58	600-01943-01	Marquee Light Panel	-
59	500-00162-01 (15 CM)	White LED Strip Reel w/ Foam Tape: 15CM / 9 LEDs	2
09	500-00162-01 (25 CM)	White LED Strip Reel w/ Foam Tape: 25CM / 15 LEDs	2
19	500-00162-01 (30 CM)	White LED Strip Reel w/ Foam Tape: 30CM / 18 LEDs	2
62	500-00162-01 (35 CM)	White LED Strip Reel w/ Foam Tape: 35CM / 21 LEDs	2
63	McMaster-Carr - 90272A151	Steel Phillips Rounded Head Screws, 6-32 Thread Size, 3/4" Long	4
64	McMaster-Carr - 94639A289	Nylon Unthreaded Spacers, 1/4" OD, 5/16" Length, for Number 8 Screw Size	4
99	600-01945-01	Marquee Light Cover PETG	1
99	McMaster-Carr - 90675A007	Steel Locknut with External-Tooth Lock Washer, Zinc-Plated, 6-32 Thread Size, 5/16" Wide	4



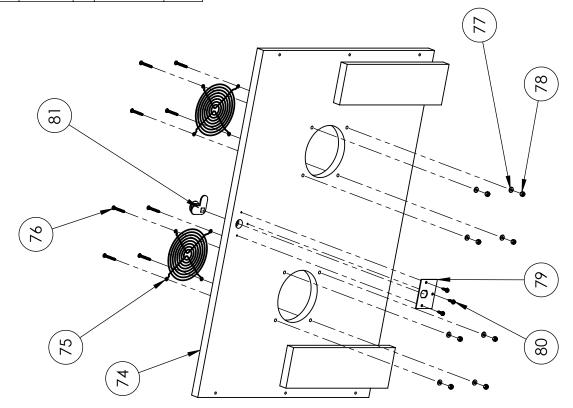


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
29	601-00772-01	Topper Backboard	-
89	600-01867-01	Topper Bracket	-
69	McMaster-Carr - 96075A219	Alloy Steel Tamper-Resistant Torx Rounded Head Screws, 1/4"-20 Thread Size, 3/4" Long	∞
70	McMaster-Carr - 93711A500	Black Oxide 18-8 Stainless Steel Split Lock Washer for Socket Head Cap Screw, 1/4" Screw Size, 0.260" ID	∞
71	McMaster-Carr - 97416A119	Black-Oxide Steel SAE Flat Washer, 1/4" Screw Size, 0.281" ID, 0.625" OD	∞
72	600-01720-01	Marquee Harness Bracket	1
73	McMaster-Carr - 95638A194	Tamper-Resistant Screw for Sheet Metal, Pin-in-Torx, 18-8 Stainless Steel, Button Head, Number 8 Size, 1/2" Long, PAINT BLACK	ю



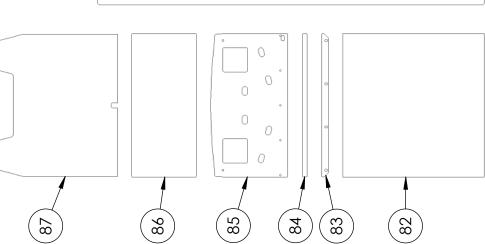
DESCRIPTION
Back Door 120mm Wire Fan Guard
Steel Phillips Rounded Head Screws, 8-32 Thread Size, 1- 1/4" Long
Zinc-Plated Steel SAE Washer for Number 8 Screw Size, 0.188" ID, 0.438" OD
Low-Strength Steel Nylon- Insert Locknut, Zinc-Plated, 8- 32 Thread Size
Lock Retainer Plate
Hex Washer Head Screw for Sheet Metal, Zinc-Plated Steel, Slotted, Number 8 Size, 5/8" Length
Standard Door Lock Assembly (for 3/4" Panels)

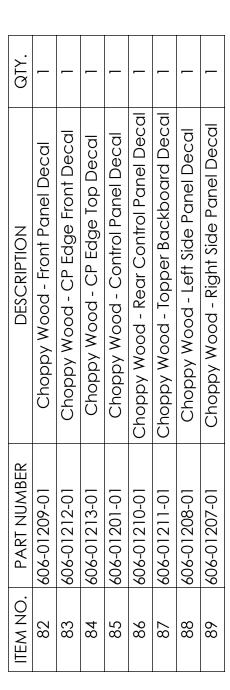




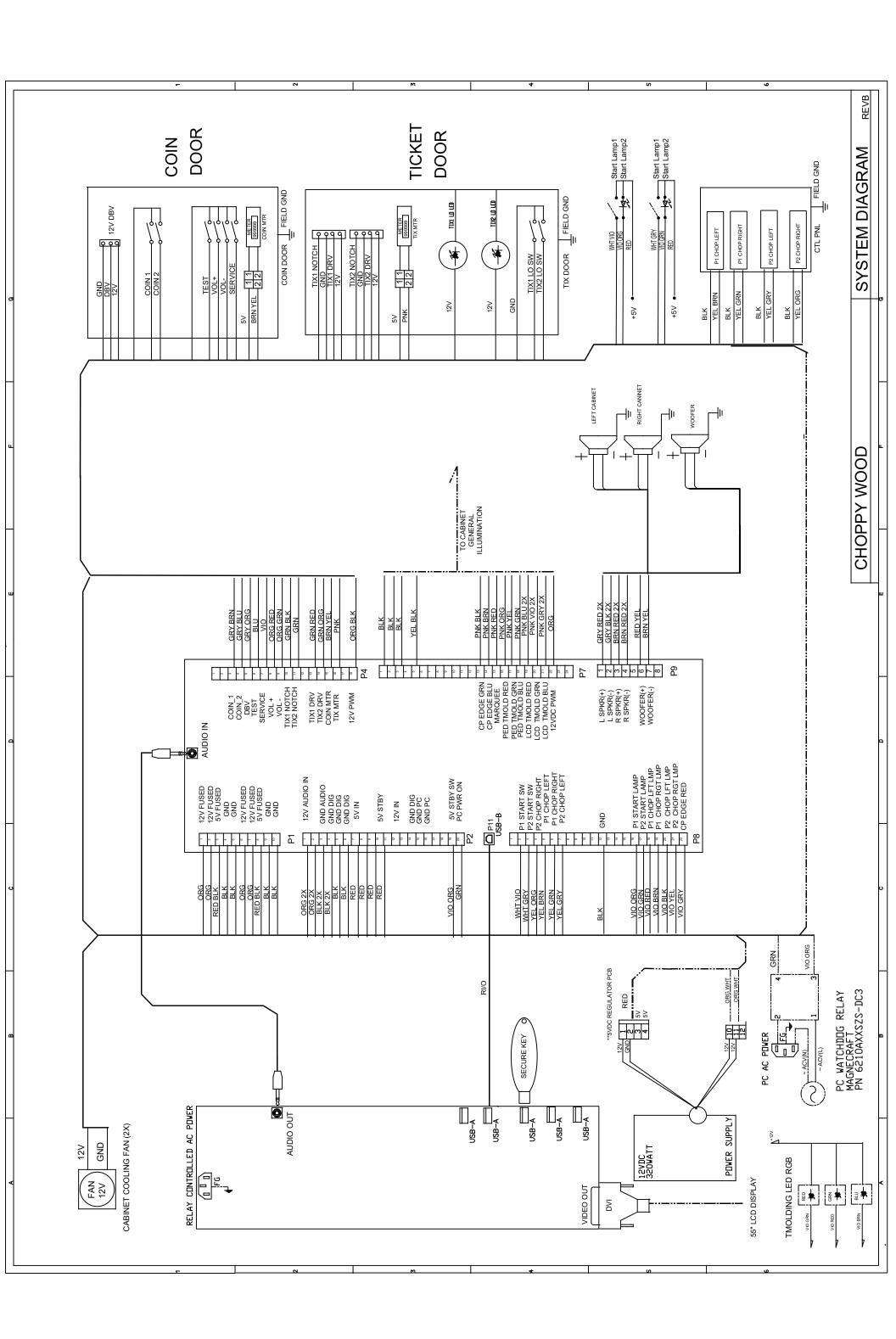
Choppy Wood Art Decals

68	
88	





SCALE 1:20



Technical Support

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TECHNICAL SUPPORT

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