



Twister

TWI-28-4001



ADRENALINE
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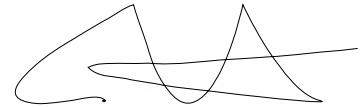
Operation & Service Manual

Version 2.0

*** Read this manual before use**

General Remark

If you encounter any difficulties or if you need support on how to update and/ or install your Twister product, we invite you to contact your local distributor or reach us at support@aagames.com or by calling our support line +1-450-824-1671



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Chapter 01 - Preface

Please read this page before preparing your Twister Arcade product for game play.

The following safety instructions apply to all game operators and service personnel. Specific warnings and cautions will be included throughout this manual.

Use the following safety guidelines to help protect the system from potential damage and to ensure your personal safety:

- Electronic components in the game cabinet run on 110V AC 60Hz (220V/ 50Hz in most of Europe, the Middle East and the Far East delivered units).
- To help prevent electric shock, plug the system into a properly grounded power source. These cables are equipped with 3-prong plugs to help ensure proper grounding. Do not use adapter plugs or remove the grounding prong from a cable. If you must use an extension cable, use a 3-wire cable with properly grounded plugs. We do recommend a 15A rated current or higher power cord.
- To help protect your system from sudden increases and decreases in electrical power, use a surge suppressor, line conditioner or Uninterruptible Power Supply (UPS).
- Be sure nothing rests on the system's cables and that the cables are not located where they can be stepped on or tripped over.
- Keep your system far away from radiators and other heat sources.
- Do not block cooling vents.

Precaution for Game Operation

Adrenaline Amusements Inc. assumes no liability for injuries incurred while playing our games.

Operators should be aware that certain health and physical conditions may make people susceptible to injury when playing video games.

Safety



To avoid electrical shock, unplug the cabinet before performing installation or service procedures.

If a power cord is damaged, it must be replaced by the equivalent power cord available from your distributor.



Adrenaline Amusement Inc. assumes no liability for any damages or injuries incurred while setting up or servicing the cabinet. Only qualified service personnel should perform installation or service procedures.

Environmental Conditions

Cabinet is intended for indoor use only. Be sure to keep the cabinet dry and maintain operating temperatures of 59° - 86°F (15° - 30°C).

Operating & Voltage

Voltage	Operating
110V AC	4.0 AMP
220V AC	2.0 AMP



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Chapter 02 - Game Features

Twister is a physical skill game where your hand and feet coordination can earn you a lot of tickets.

How to Play

- Get on your player's spot.
- For each round, move your hand or foot on the designated color.
- Try holding your position for as many rounds as possible!

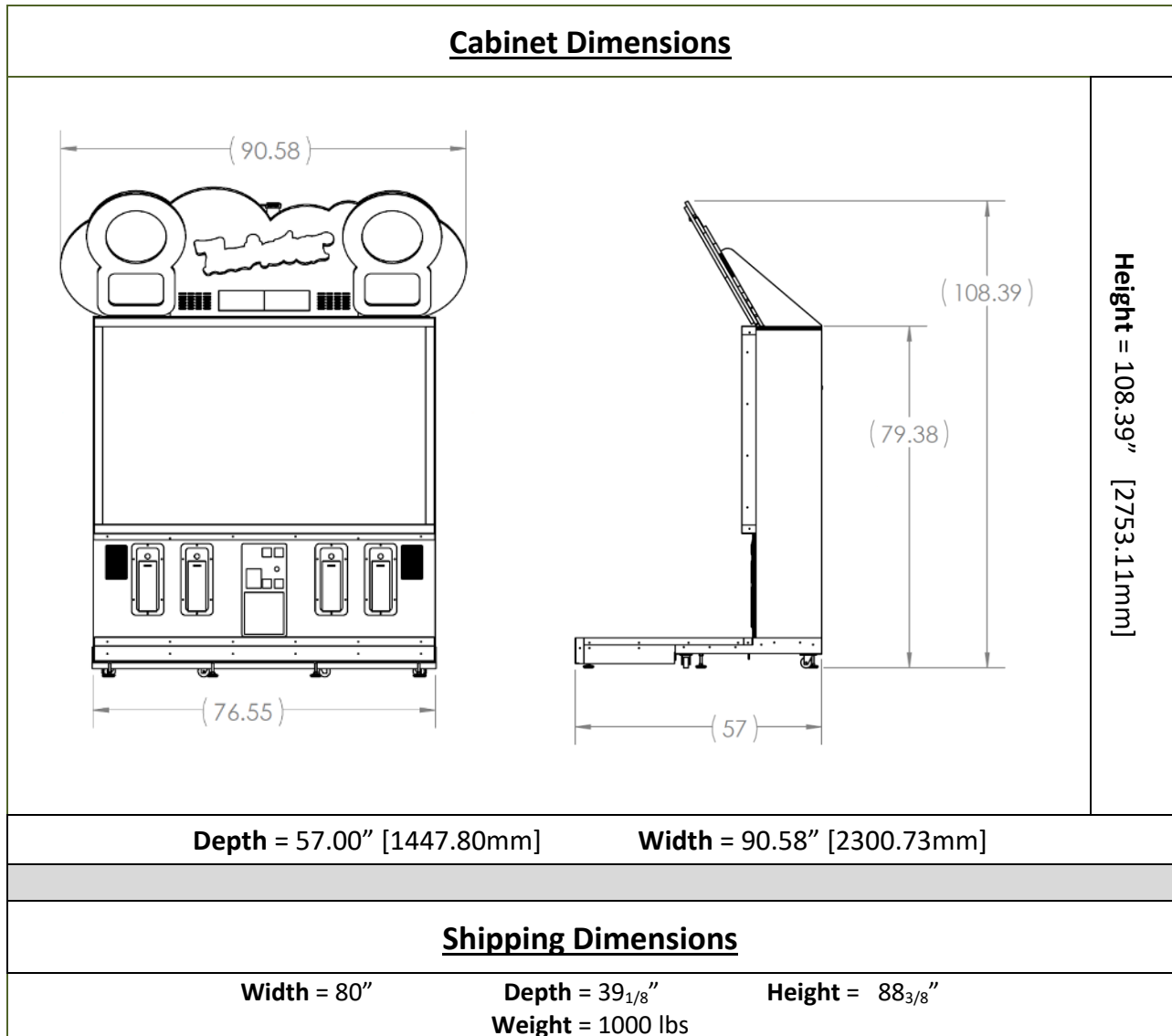


Chapter 03 – Unit Features

Hardware Features

- 4-players game
- 2 overhead LCD monitors
- 42 colored circles

Cabinet Facts



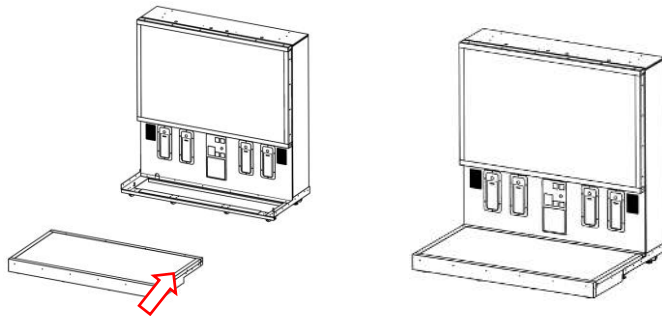
Chapter 04 – Unit Installation

How to assemble your Twister unit

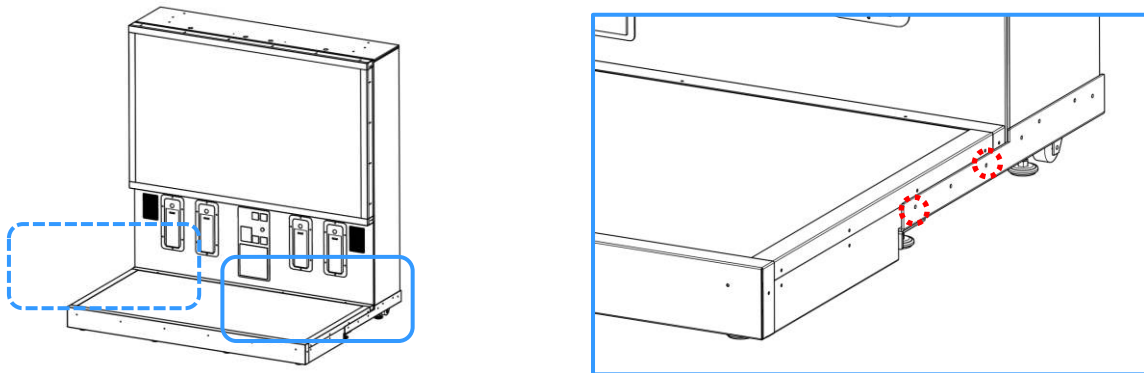
Warning: At least 2 people are required to perform the following operations

Structural Parts

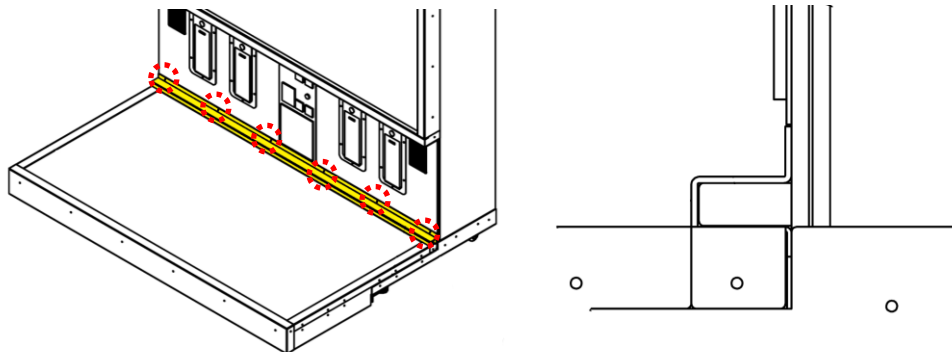
- 1) Position the floor assembly on the cabinet assembly



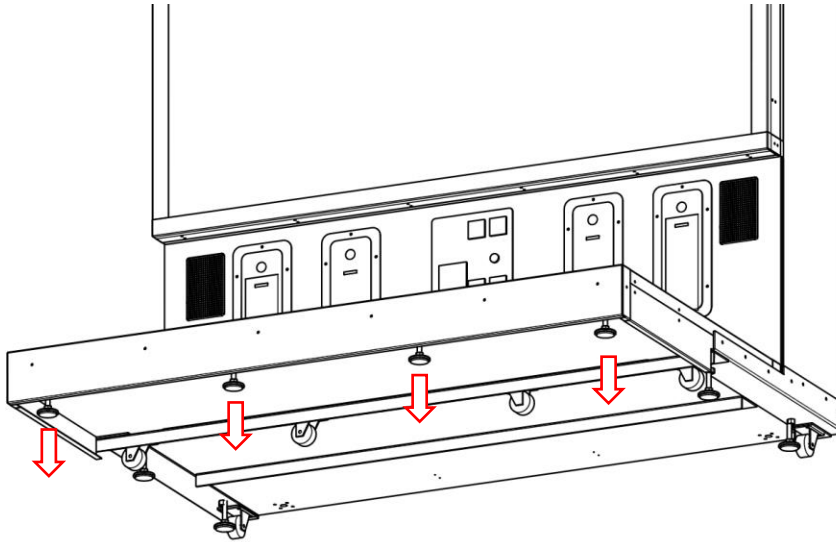
- 2) Secure the floor assembly with the provided white 10-24 x 1¼ screws
Repeat for the other side



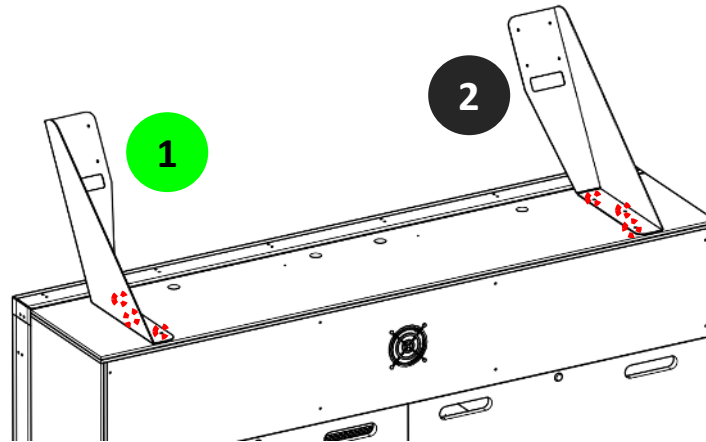
- 3) Install the floor LED cover with white 10-24 x 1¼ screws.



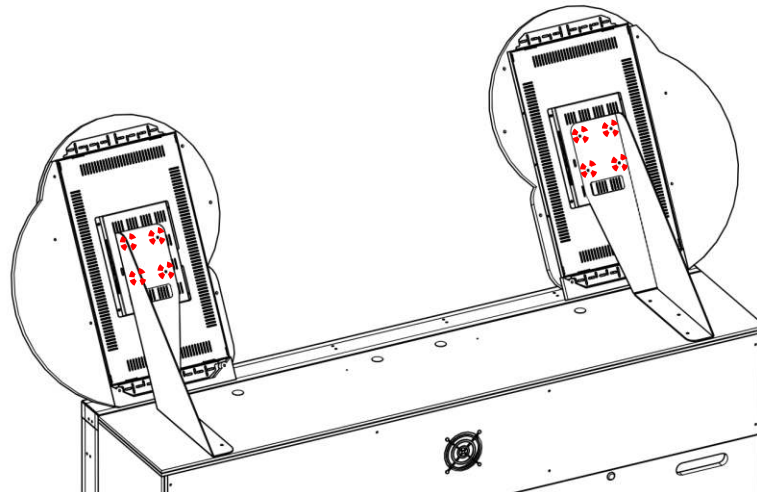
- 4) Slightly lower the levellers until they touch the floor.



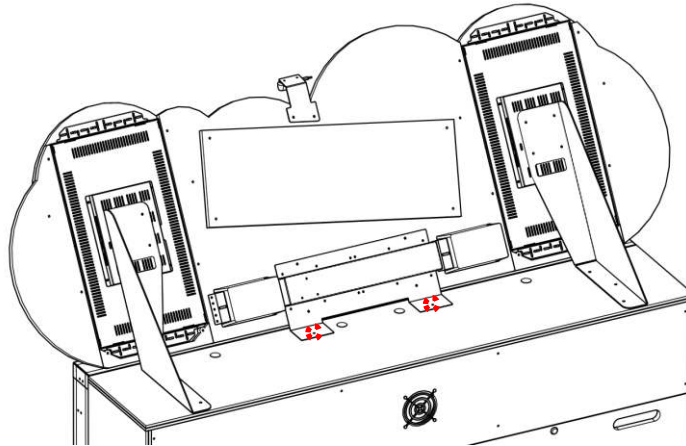
- 5) Position both top display brackets on each side using hexagonal ¼-20 screws
Make sure that the colored stickers match with the ones on each side of the cabinet



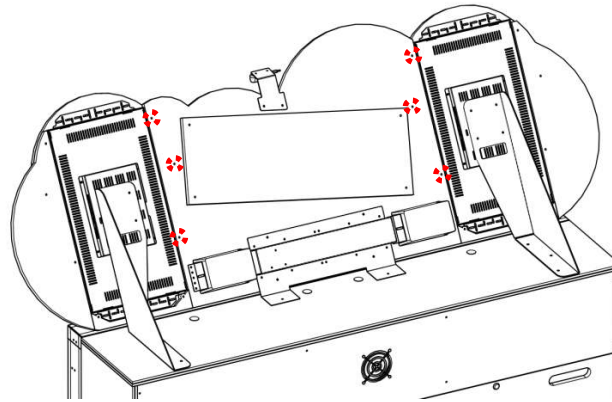
- 6) Position the 2 side headers by installing M4 screws between the brackets and the monitors



- 7) Position and secure the center header by installing #8 x 3/4 black screws

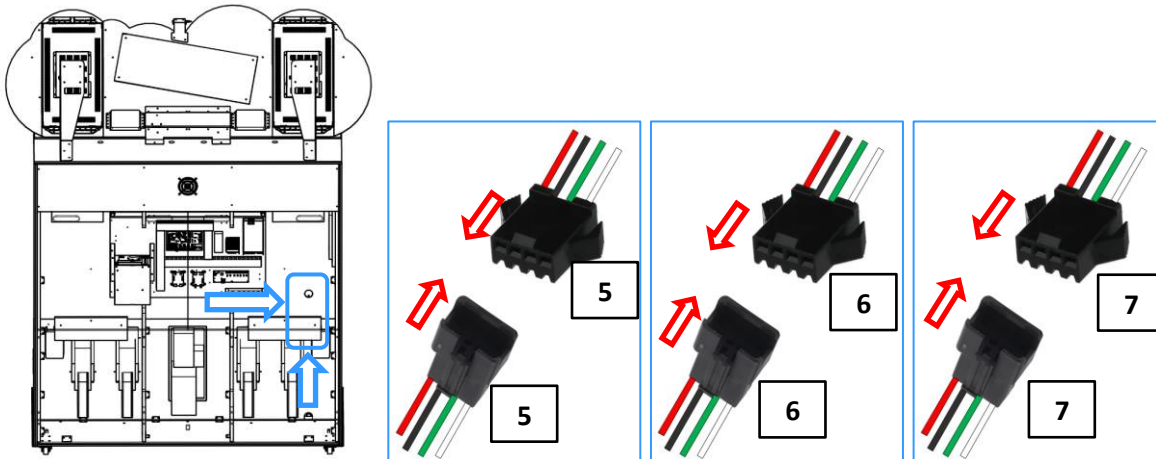


- 8) Secure the center header with black 10-24 machine screws.



Electronic Parts

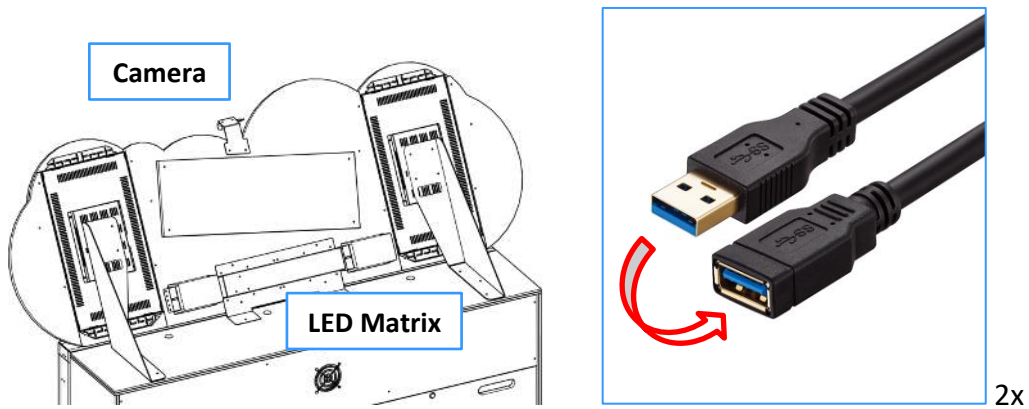
- 9) Connect all 3 harnesses coming from the floor assembly to the cabinet
For each connector, connect it with the one identified with the same number



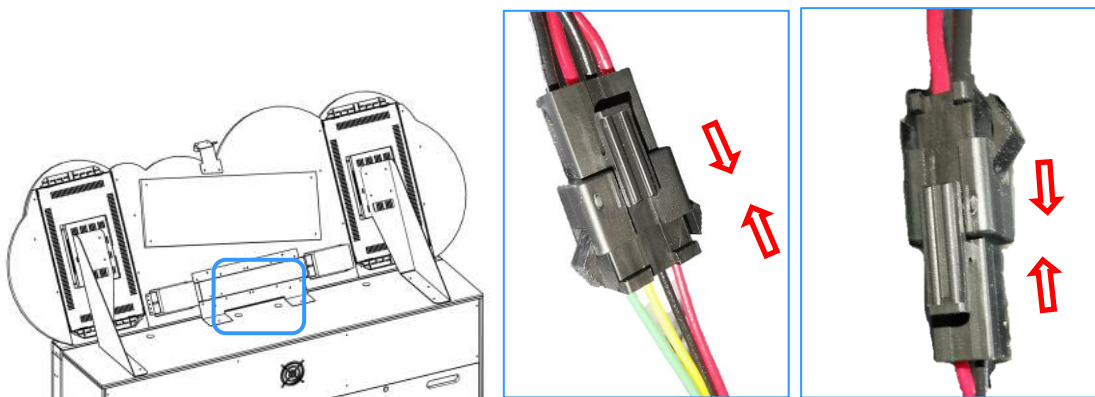
10) For each side header, connect the HDMI and power cables from the monitors to their extensions



11) Connect the longest USB extension to the camera USB cable
Connect the shortest USB extension to the LED Matrix USB Cable



12) Connect both 4 pins and 2 pins connectors to their extensions

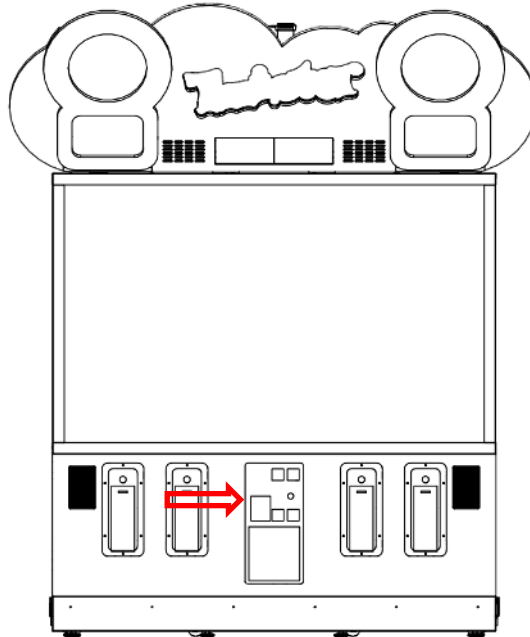


You can now connect your unit and turn it on

Chapter 05 – Operator Menu

Operator Menu

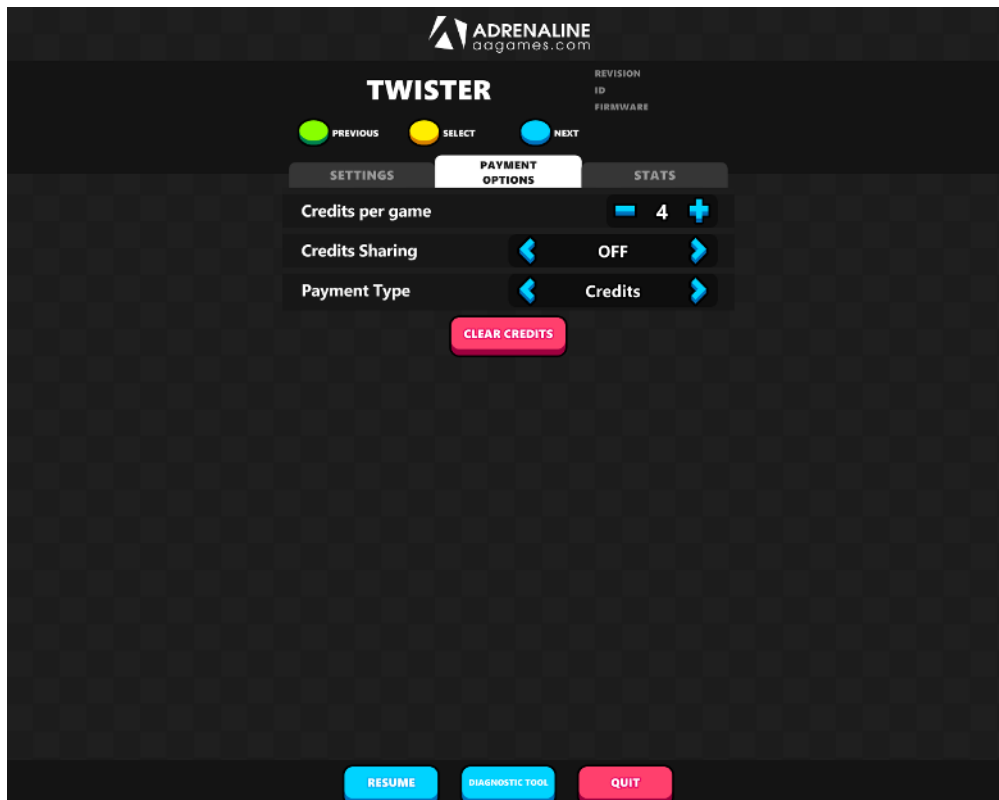
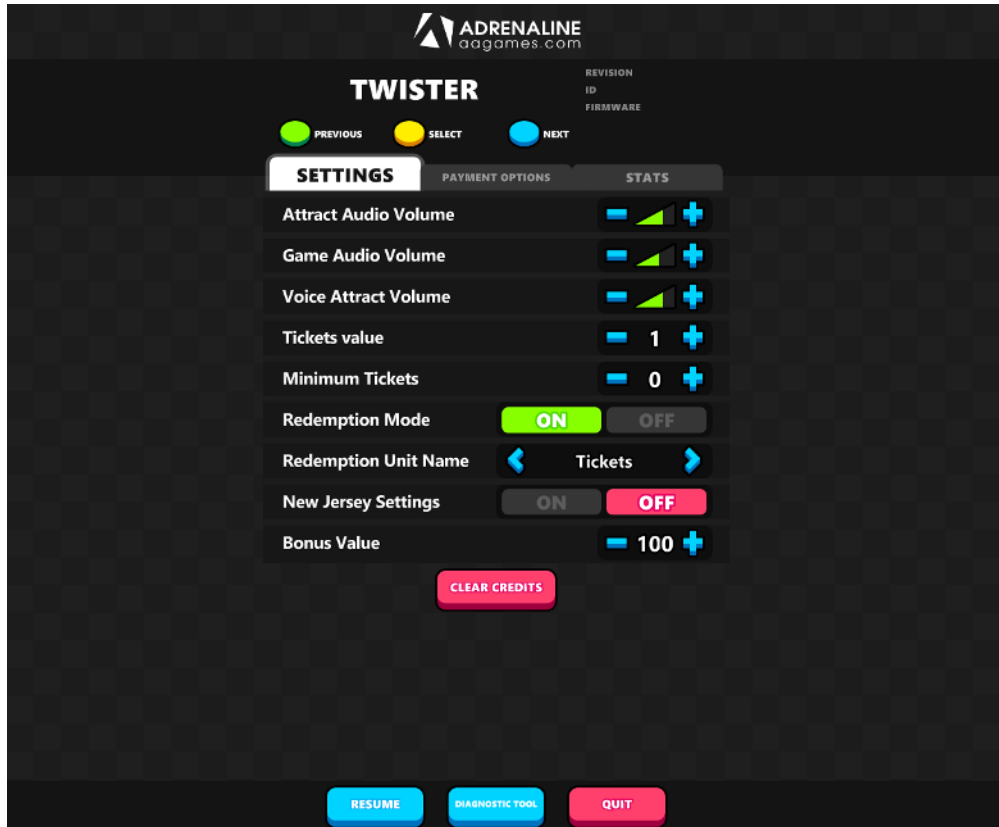
Access the Operator Menu by pressing the white operator menu button behind the center door of the cabinet.



Navigate through the operator menu by using your keyboard's numerical pad keys "1", "2" and "3".



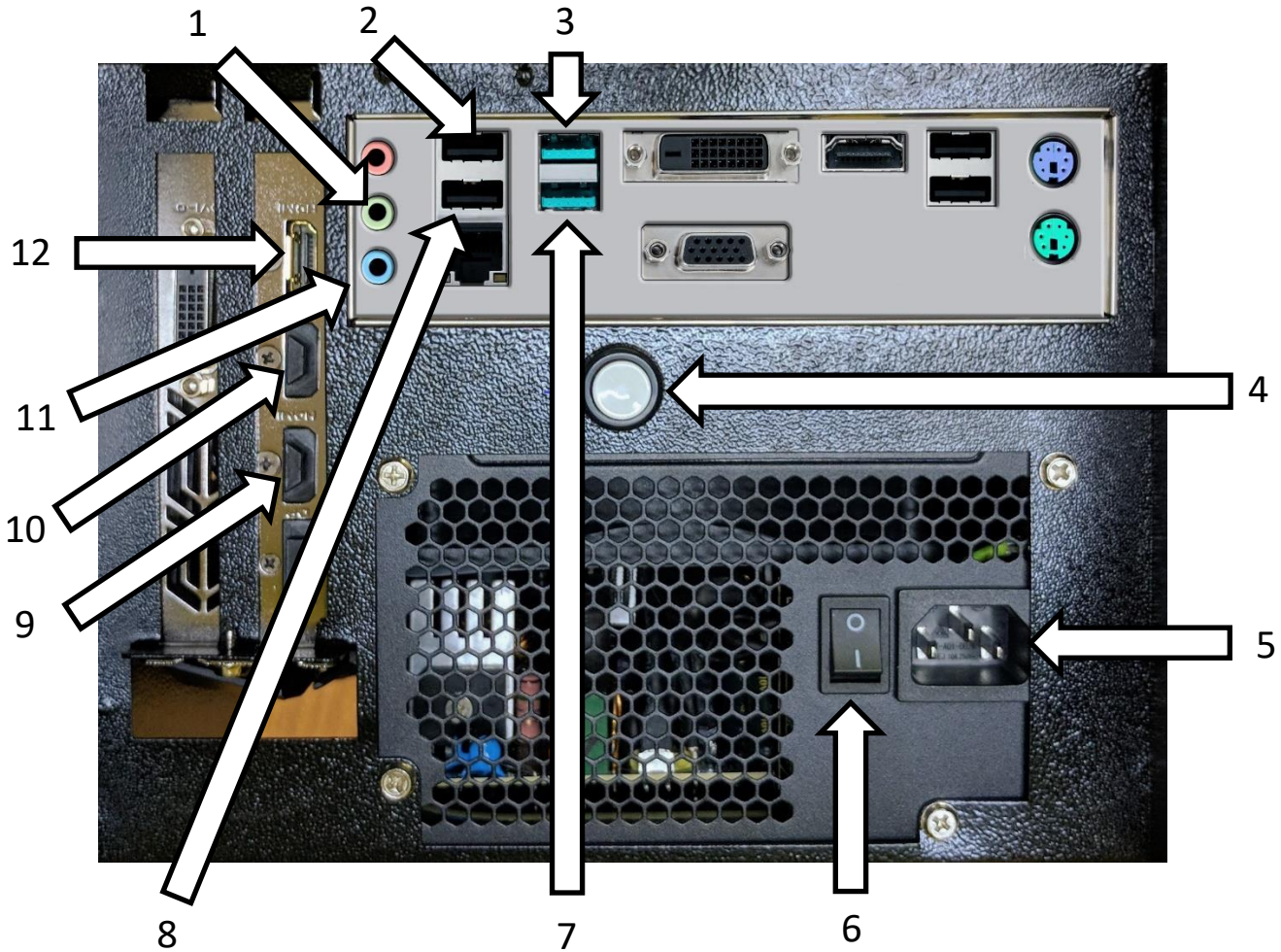
Twister Manual V2.0
Chapter 05 – Operator Menu



SETTINGS		
<u>Operator Menu</u>	<u>Values</u>	<u>What It Does</u>
Game Audio Volume	0-20	Adjusts the in-game audio volume. "0" will mute the game.
Voice Attract Volume	0-20	Adjusts the in-game voice volume. "0" will mute the voice
Attract Audio Volume	0-20	Adjusts the volume of the voice attract loop. "0" will mute the voice
Ticket Value	1-2	Adjusts the value of physical tickets. Physical tickets are either worth "1" ticket or "2" tickets.
Minimum Tickets	0-20	Adjusts the minimum number of tickets dispensed per play.
Redemption Mode	On/Off	Adjusts the redemption availability
Redemption Unit Name	Tickets/Coupon	Adjusts the in-game text accordingly
New Jersey Settings	On/Off	If set to On, a message will be displayed if more than 40 credits are inserted.
Bonus Value	100-2000	Maximum number of tickets that can be won when a player reaches the bonus wheel
PAYMENTS		
<u>Operator Menu</u>	<u>Values</u>	<u>What It Does</u>
Credits Per Game	1-20	Adjusts the number of credits required to play. "0" sets the unit in free play mode.
Credit Sharing	On / Off	Adjusts the credit sharing option between each player. (Off: Sharing Disabled // On: Sharing Enabled) <u>If you have Card Readers (2X) please use OFF.</u>
Payment Type	Credit / Card	Changes the credit type. "Credits" = Coins and "Card" = Card Reader. This will change the in-game text accordingly.
Clear Credits		Resets the Inserted credits to 0 if more than 40 credits are entered.
Resume Game		Exits the Operator Menu and returns to the game.
Quit Game		Exits the game and returns to the Windows desktop.

Chapter 06 – Service & Repair


Computer Connections



<u>No.</u>	<u>Description</u>
1	Green Audio Jack 3.5 mm for Top Speakers
2	USB Port to I/O Board
3	USB Port to USB Hub
4	Power Button
5	AC Inlet Power Supply
6	AC Power Switch
7	USB Port to RGB Controller
8	USB Port to Bus Master Board
9	Display Port for Left Header
10	HDMI Port for Right Header
11	Blue Audio Jack 3.5 mm for Cabinet Speakers
12	DVI Port for Cabinet Monitor

Troubleshooting

* **NOTE: When requesting a warranty replacement, you will be asked to give the unit's serial number from the back of the unit.**

Video Troubleshooting	
No Picture or Display Problem	There might have loose or faulty connections between the monitor and the computer. Make sure that both the DVI and HDMI cables are connected properly in the computer's video card and in the monitor connectors.
	Verify that the computer is powered on. The fan on the side of the computer case should be spinning as a reference, if it is not spinning press the Power Button on the front of the computer.
Audio Troubleshooting	
Low Volume / No Sound	Increase the volume in the game by pressing the Operator Button and adjusting the volume options in the Operator Menu. You might also Quit the game to Windows desktop and increase the volume via the  Speaker icon on the bottom right of your screen.
	Verify the wirings behind the speakers and the amplifiers. Verify that the 1/8" audio jack is plugged in the computer's sound input jack and that the other RCA's end are plugged in the sound amplifier.

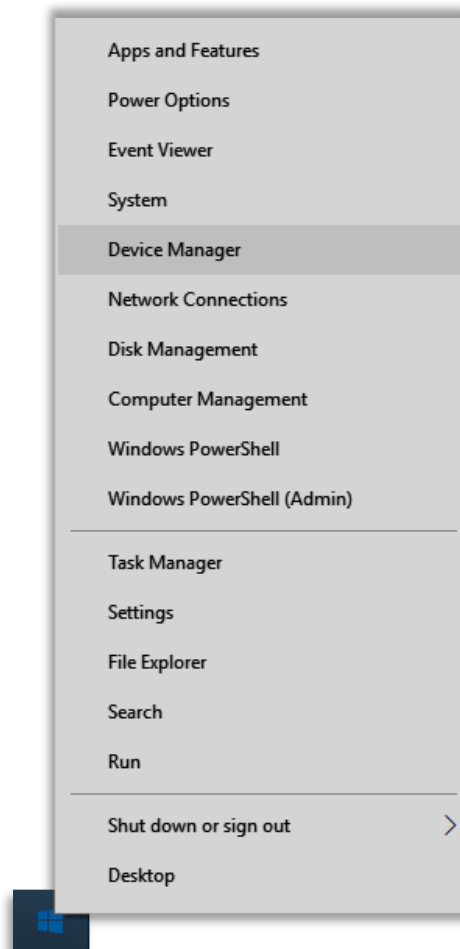
RGB Led Troubleshooting

If the RGB LEDs are not working properly verify that the RGB LED Controller is connected on a valid COM Port.

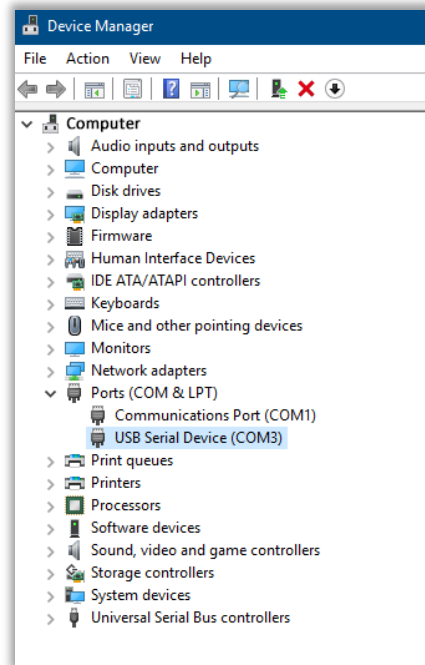
Press the Operator Button and Quit/Exit the game to Windows Desktop.

Connect a USB mouse.

Right-click on the windows flag on the bottom left corner and select Device Manager.



Expand the “Ports (COM & LPT)” line by clicking on the >.

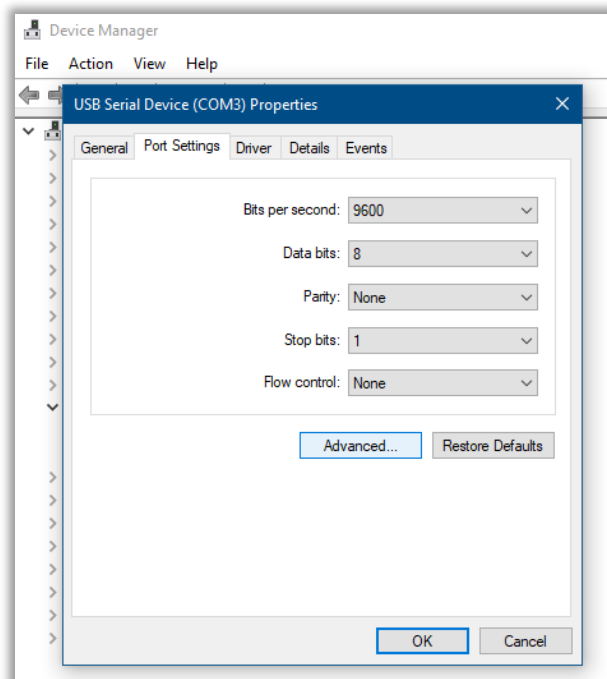


Verify that the “USB Serial Device” is set between COM2 to COM9.

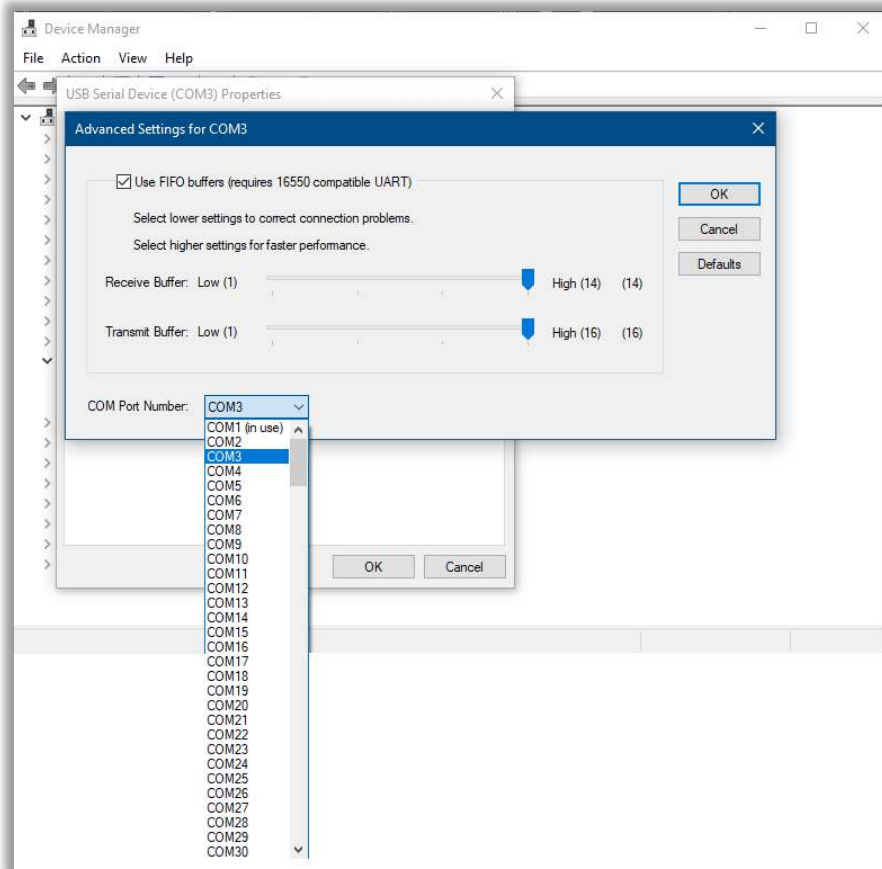
If it’s outside this range, double-click on it to open its properties.

Select the “Port Settings” Tab.

Click on “Advanced...”



- Click on the COM Port Number scrolling menu and select COM9.
- Click on OK.
- Click on OK again.
- Close the Device Manager window and restart Windows.



Closes all apps, turns off the PC and then turns it on again.

Restart



Wireless Internet Configuration

Your network can be configured via Ethernet cable or Wireless.

If you have an Ethernet cable available to be plugged in, insert it into the motherboard LAN RJ45 connector.

If not, here's how to configure your wireless network with your own existing Wi-Fi network.

-Start the unit.


-There will be Adrenaline Amusements wallpaper with a 150 second delay before the attract mode shows up. It gives enough time for a wireless network to connect.

*(This delay will be present on each reboot if you don't connect your unit to the Internet) *.*

-Open the service door and press the Operator button.

-Choose Exit/Quit to Windows.

-Connect the provided USB hub and into it the USB keyboard and mouse.

- Open Connect to a Network by clicking the network icon () in the lower right corner of the screen.

-In the list of networks, click the network you want to connect to and click connect.

-Enter your security key.

-Once connected, double-click the "GameLauncher" shortcut on the desktop.

Having your unit connected to the Internet includes free software live update!

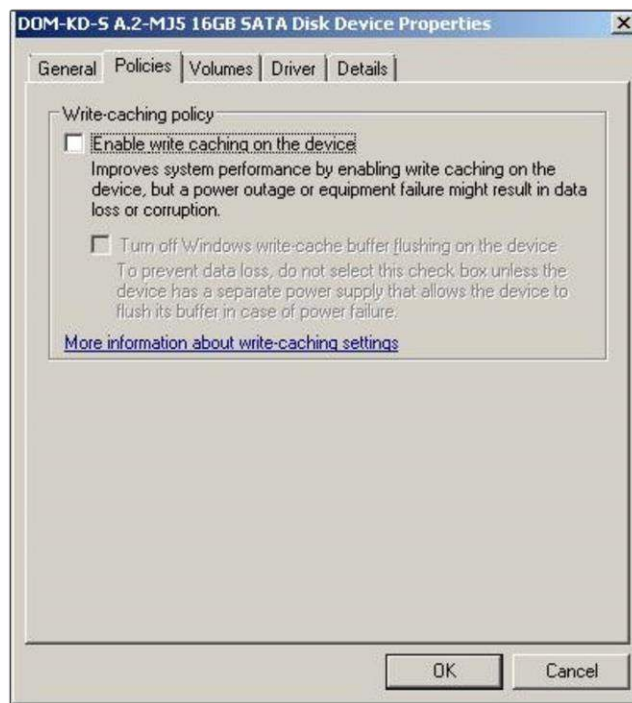
*If you do not connect your unit to the Internet, you can double-click the "Disable_Network" shortcut on the Windows desktop to bypass the 150seconds Internet lookup delay.

Operator Settings keeps resetting

Operator Settings keeps resetting back to default values after powering off the breakers.

The Windows & SSD Device write cache needs to be disabled:

- Exit the game to Windows.
- Press on Start
- Right click on My Computer
- Choose Properties
- Click on Device Manager
- Expand Disk Drives
- Double click the SSD Hard Drive 60Gb or 120Gb Device (Not the USB drive if there is one)
- Go to Policies
- Remove the check in front of “Enable Write caching on the device” as seen below, press OK and then YES to reboot the computer. If it doesn’t ask to reboot the computer you need to do it by pressing Start, Restart.



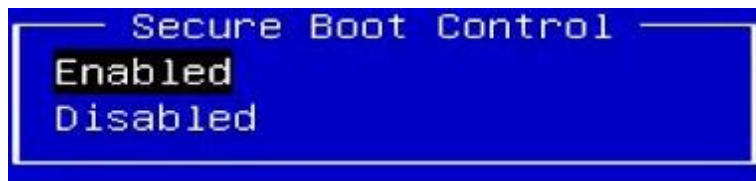
Computer not powering at boot

If your computer is not powering on by itself at boot, you'll need to verify the Bios Setting.

- Power off the computer.
- Plug a USB keyboard and a USB mouse.

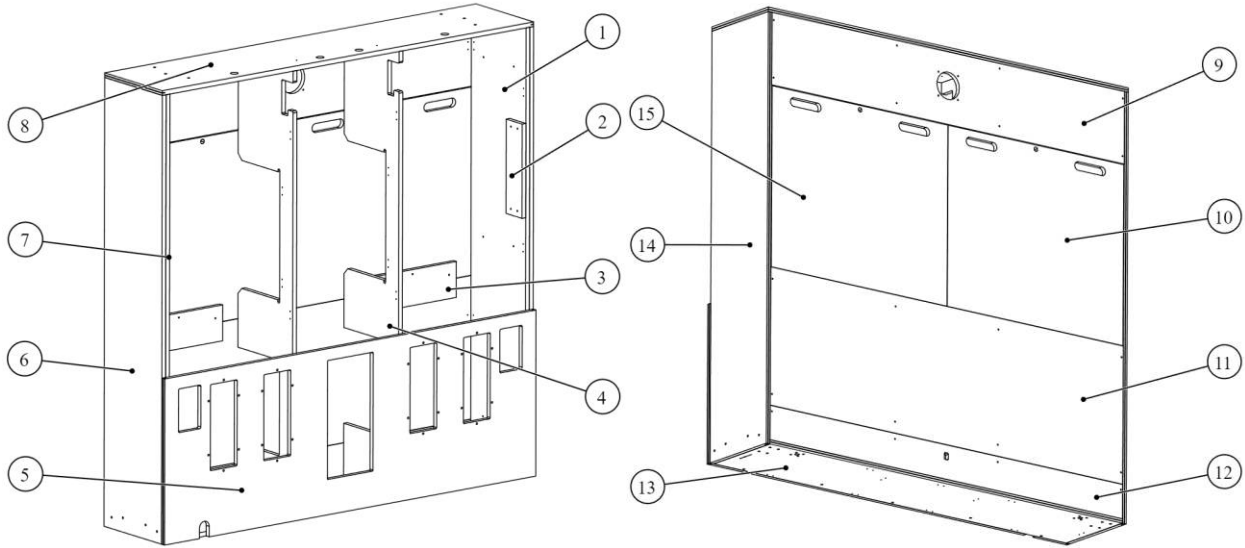
-Press the power button on the computer.
Press and hold F12 on the keyboard until you see the Bios screen.

Using the arrow keys, navigate to the Security tab
Select Secure Boot, and make sure that it's enabled



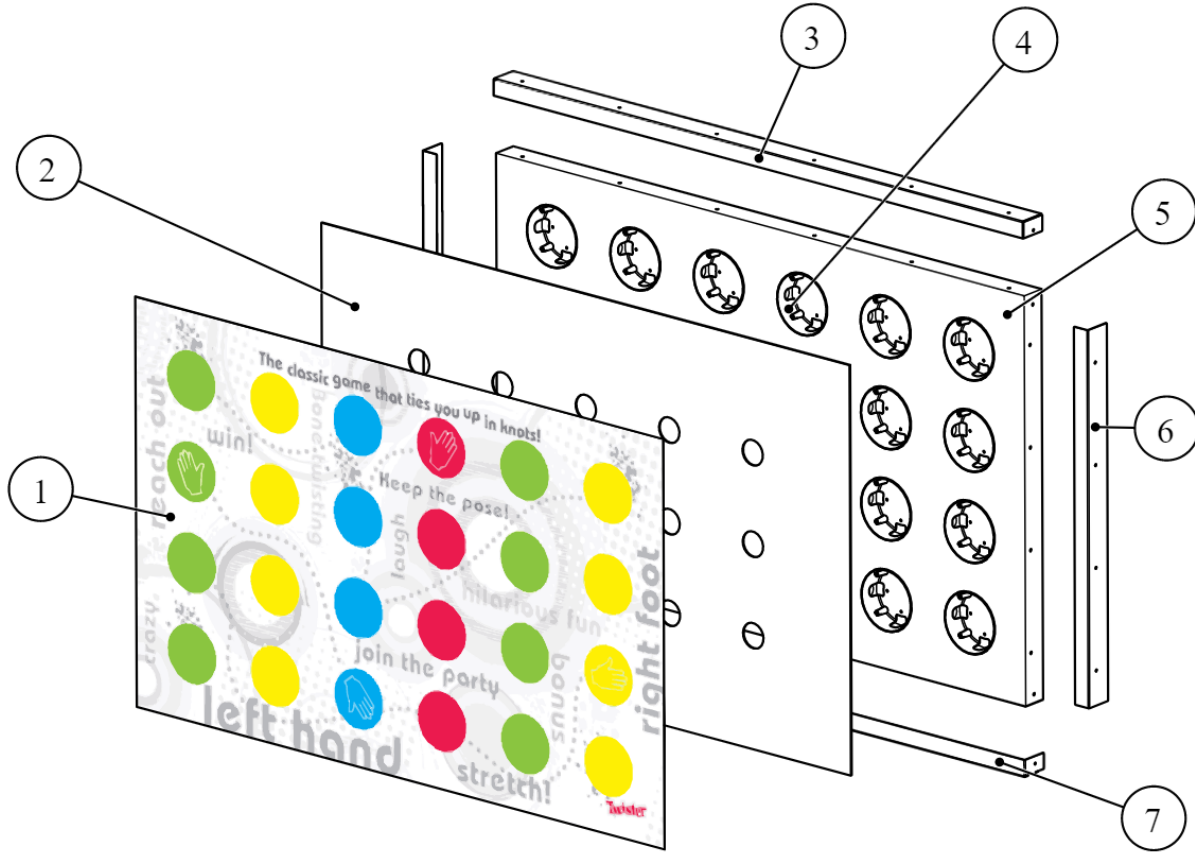
Chapter 07 - Parts

Wood Module



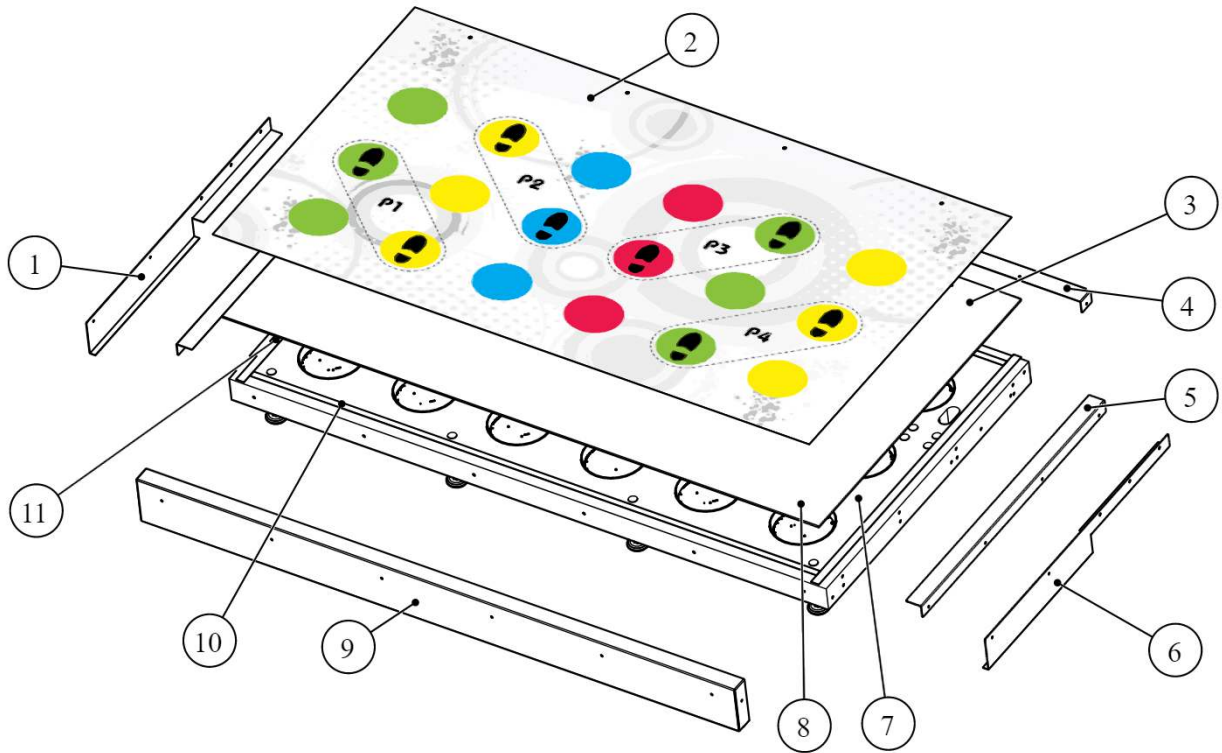
#	Part Description	Part #
1	Inner Right-Side Panel	TWI-02-0005-09
2	Inner Cabinet Monitor Support	TWI-02-0005-15
3	Access Doors Lower Bumpers	TWI-02-0005-12
4	Inner Vertical Structure	TWI-02-0005-08
5	Front Doors	TWI-02-0005-03
6	Outer Left-Side Panel	TWI-02-0005-11
7	Inner Left-Side Panel	TWI-02-0005-16
8	Cabinet Top	TWI-02-0005-04
9	Upper Back Panel	TWI-02-0005-07
10	Left Access Door	TWI-02-0005-06
11	Cabinet Back	TWI-02-0005-05
12	Lower Back Panel	TWI-02-0005-02
13	Cabinet Floor	TWI-02-0005-01
14	Outer Right-Side Panel	TWI-02-0005-10
15	Right Access Door	TWI-02-0005-13

Game Wall Assembly



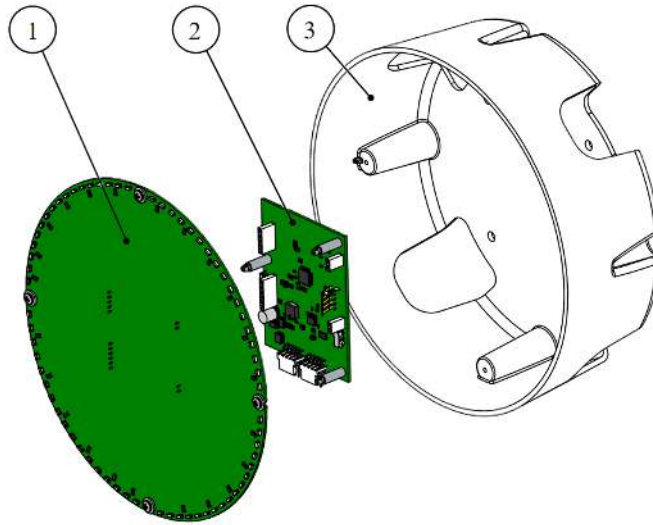
Ref	Part Description	Part #
1	Printed Sticker for Game Wall	TWI-07-0004
2	Wall Panel No Print PETG 3/16	TWI-07-0003
3	Game Wall Top Bracket	TWI-07-0041
4	Light Support	TWI-07-0005
5	Game Wall Wood Panel	TWI-02-0002
6	Game Wall Side Bracket	TWI-07-0042
7	Game Wall Bottom Bracket	TWI-07-0048

Game Floor Assembly



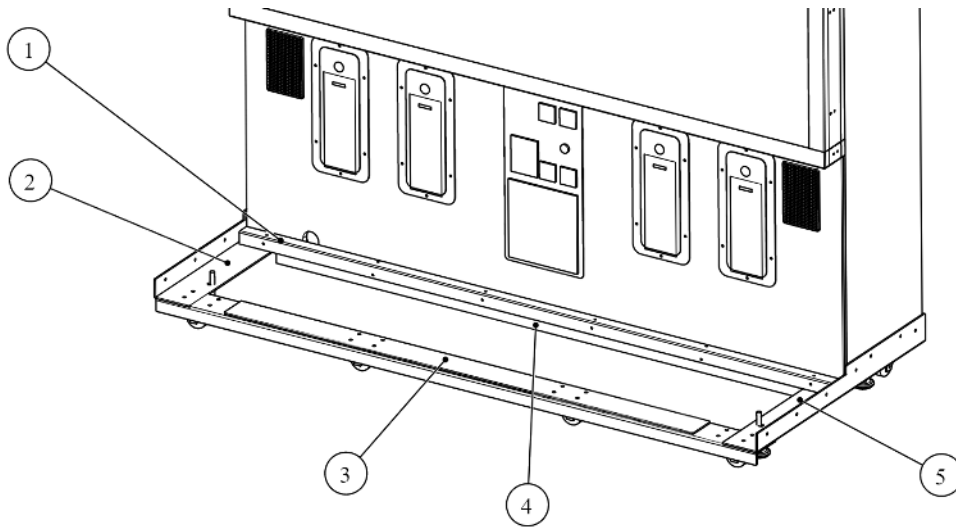
Ref	Part Description	Part #
1	Game Floor Left Side Bracket	TWI-01-0019
2	Printed Sticker for Game Floor	TWI-07-0002
3	Floor Panel No Print PETG 3/16	TWI-07-0001
4	Game Floor Back Bracket	TWI-01-0008
5	Game Floor Inner Side Bracket	TWI-01-0001
6	Game Floor Right Side Bracket	TWI-01-0009
7	Game Floor Wood Panel	TWI-02-0001
8	Light Support	TWI-07-0005
9	Game Floor Front Bracket	TWI-01-0003
10	Game Floor Front and Back Seal	TWI-07-0031
11	Game Floor Left and Right Seal	TWI-07-0030

Light Assembly



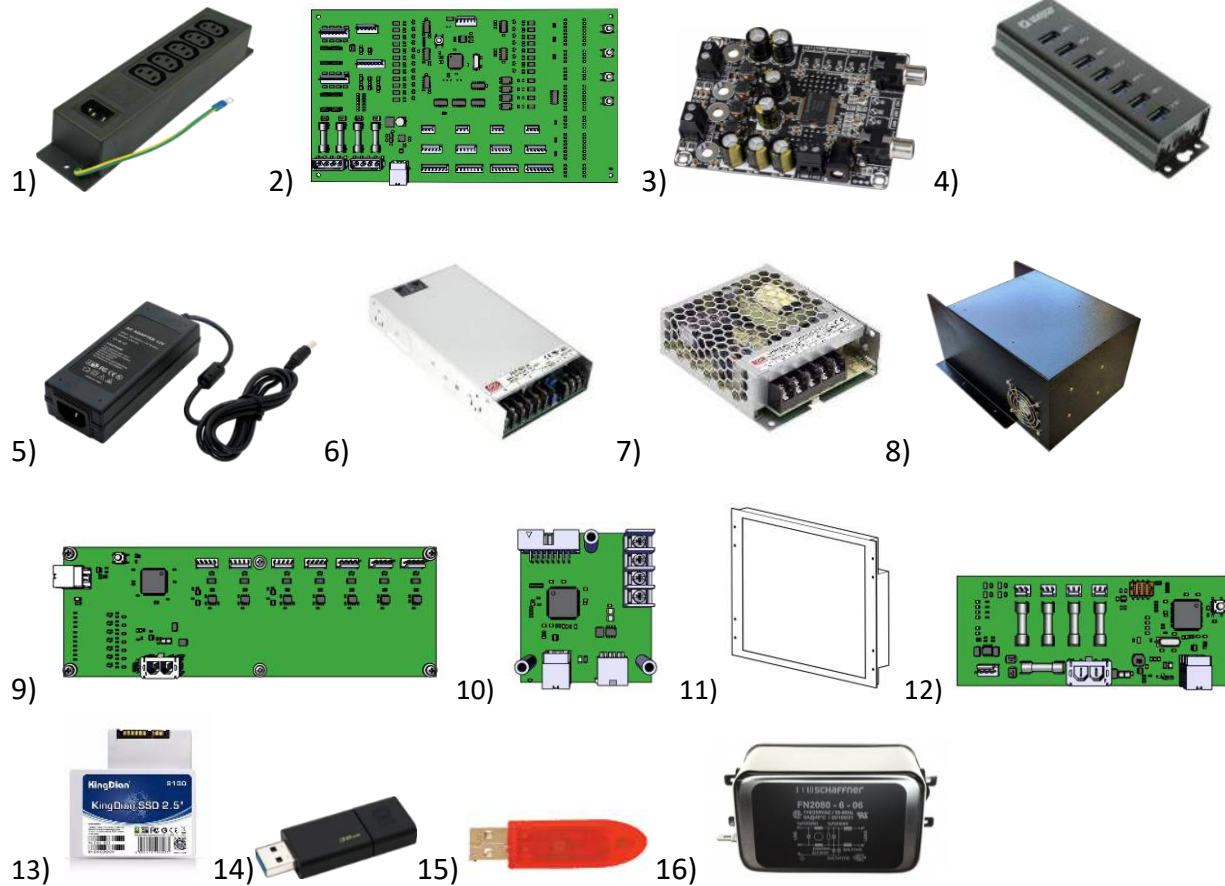
Ref	Part Description	Part #
1	Programmed Capsense MCU Board for Twister	AAG-04-0020-PROG
2	Capsense Antenna Board for Twister	AAG-04-0021
3	Light Support	TWI-07-0005

Cabinet Brackets



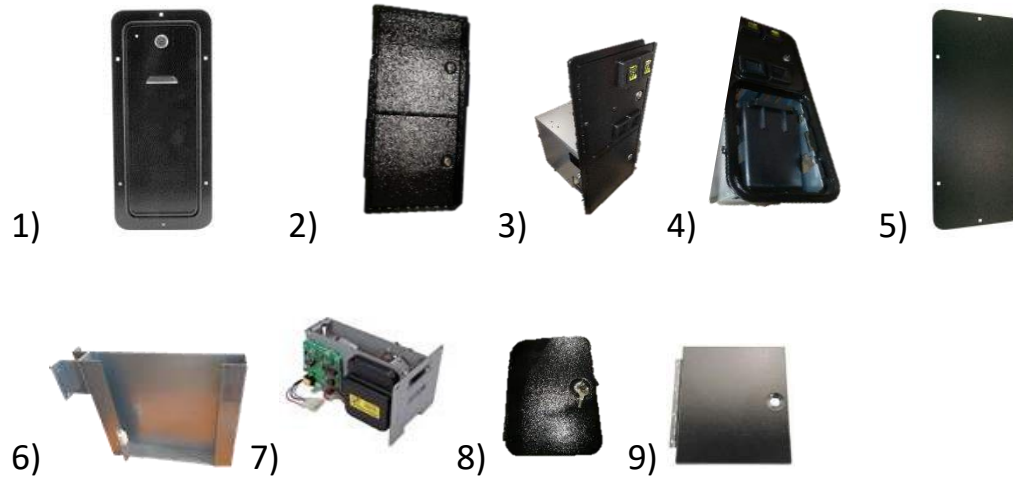
Ref	Part Description	Part #
1	Floor Light Cover	TWI-07-0044
2	Left Floor Side Bracket	TWI-01-0006
3	Front Bottom Module Bracket	TW-01-0007
4	Bottom Module Bracket	TWI-01-0010
5	Right Floor Side Bracket	TWI-01-0005

Computer & Electronics



Ref	Part Description	Part Number
1	Power Bar 5 positions	INV-05-1242
2	I/O Board, 4 Players, 4 Motor Control, Version 5.0 for Twister	ADR-04-1003-TWI
3	2X15 Watt Class D Audio Amplifier Board	INV-14-0005
4	7-Port USB, 3.0 Hub, Type A Female USB	AAG-11-0011
5	Switching Power Supply, 12 V, 5A, 2.1mm x 5.5mm Plug	INV-14-0006
6	Switching Power Supply 12V, 500W	AAG-13-0016
7	Switching Power Supply 5V 50W	AAG-13-0017
8	PC Box for Twister with Motherboard H310	ADR-11-1021-TWI
9	485 BUS Master Board	AAG-04-0032
10	RGB LED Matrix Panel Controller Board for Twister	AAG-04-0027
11	Monitor 17" VGA + DVI, With Glass	SF-10-0001
12	RGB Led Controller Board Assembly 12V-24V W/Output	AAG-04-0015
13	Hard Drive for Twister for H310	INV-11-1027-TWI-H310
14	Restore USB Key Twister with Fujitsu H310	ADR-11-2014-TWI-H310
15	Red Dongle	INV-11-1002
16	Filter Multi-Stage, 6A, Candy Crush Ticket	ADR-817-1321-ND

Cabinet Doors



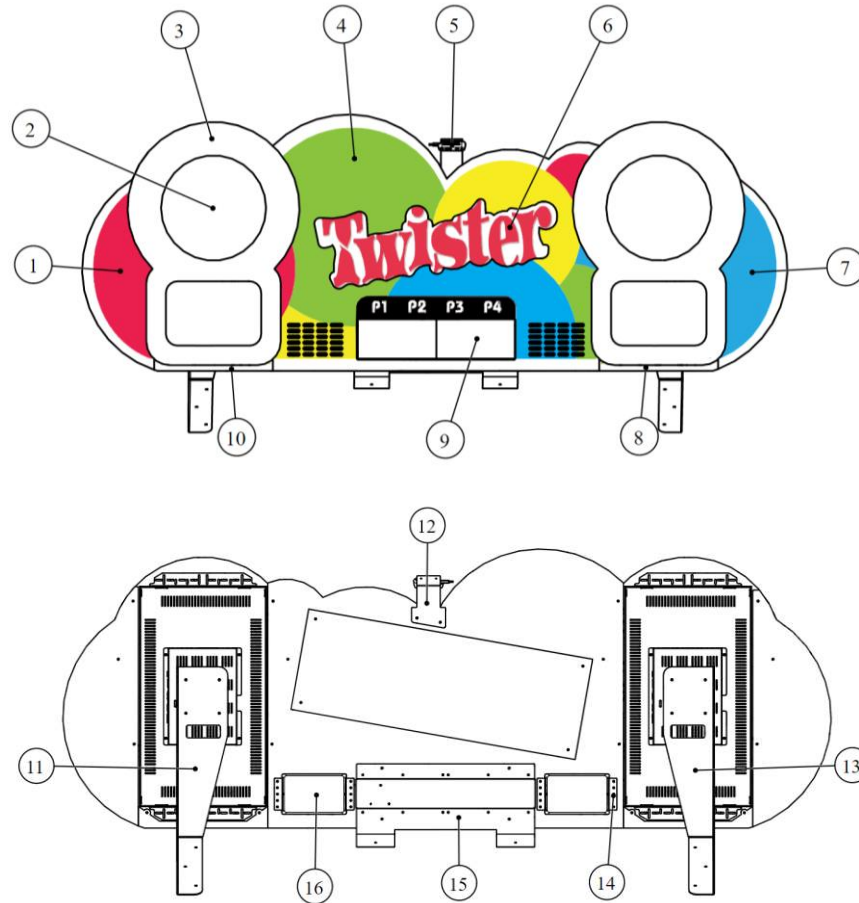
Ref	Part Description	Part Number
1	Ticket Dispenser Door Including LEDs, Without Dispenser	ADR-40-0540-00KA
2	Door and Frame Assembly with Blank Upper and Bottom Door	ADR-40-0745-20KA
3	Door Assembly With 2 Upper Mech Holder, 1 Validator Cut Out, Blank Bottom Door	ADR-40-3000-06LKA
4	Door Assembly with One Upper Mech Holder, Round Corner, Universal Logo, NO Bottom Door	ADR-40-0512-06NMKA
5	Metal Plate for Ticket Door	SHT-01-0070
6	Ticket Bin with Level Sensor Switch	ADR-42-1015-00
7	Ticket Dispenser D-TYPE	ADR-TD-0001
8	Round Corner Blank Door Only	ADR-42-3145-100
9	Blank Door Black, No Lock	ADR-42-3607-90

Other Cabinet Parts



Ref	Part Description	Part #
1	General Duty Rubber Caster, 2-1/2"	INV-F25083
2	Leg Leveler 1/2"-13 x 4" Thread, 2-3/8" Base Diameter	INV-62805K-39
3	Kit for Fan 138CFM With Harness, 120mm	ADR-FAN-120MM-02-KIT
4	Grill 120mm	ADR-GRILLE-120MM
5	Meter, 12V, 7 Digit with Bracket	ADR-42-08012-072
6	Leg Support 1/2-13 For Twister	TWI-01-0060

Header Assembly



Ref	Part Description	Part Number
1	Top Left Header White Printed PVC 3/4	TWI-07-0008
2	28" Monitor GF28H24W12	AAG-10-0003
3	Screen Cover Left and Right, White Printed PVC 3/4	TWI-07-0007
4	Top Center Header White Printed PVC 3/4	TWI-07-0006
5	Intel Depth Programmed Camera	BLX-10-0001-PROG
6	Twister Illuminated Header	TWI-07-0020
7	Top Right Header White Printed PVC 3/4	TWI-07-0009
8	Right Header Below Screen White Printed PVC 3/4	TWI-07-0019
9	Display Module, 64x32", RGB LED - 4mm pitch	AAG-14-0004
10	Left Header Below Screen White Printed PVC 3/4	TWI-07-0018
11	Right Header Bracket	TWI-01-0024
12	Top Camera Bracket	TWI-01-0026
13	Left Header Bracket	TWI-01-0025
14	Speaker Bracket	BLX-01-2033
15	LED Matrix Bracket	TWI-01-0031
16	Speaker 4"	ADR-50-9986-00

Cabling

Part Description	Part Number
Splitter Cable Barrel Connector, 2.1mm Female to 2 x 2.1mm Male, 300mm	TF-05-1223
Harness for PSU Power, Blox Breaker	BLX-03-0014
INV-PW-100-06	INV-PW-100-06
Power Cord IEC-C14 to IEC-C7, 18AWG, 3'	INV-PW-117-03
Cable Power Splitter, C14 to 2x C13, 2'	INV-PW-200B-02
Harness for Cabinet Fan, 5V-12V	FT-03-4050
HDMI Cable, 8'	INV-HDMI-140-08K
HDMI Male to HDMI Female High Speed with Ethernet Cable - CL3/FT4	INV-HDMI-141-03
3ft USB 3.1 Type-C Right/Left Angle Male Cable to A Straight Male - 10G 3A - Black	INV-USB-380-03
6ft DisplayPort Male to HDMI Male Cable with Audio, 4K*2K 30Hz, 28AWG CL3/FT4 - Black	INV-DP-HDMI-06K
Molded Audio Cable, 3.5mm Male To 2x RCA Male, 6'	INV-35MM-RCAE-06
Right Angle Barrel Power Cable, 2.5mm, Jack to Plug, 3'	ADR-CP-2218-ND

Wiring Harnesses

Part Description	Part Number
Harness PSU12/24 to CTRL Led RGB	AAG-03-0038
Harness speaker 2-channel 19" & 45"	AAG-03-0053-01
Audio amplifier 4-wires 61"	AAG-03-0054-01
Twister RS485 link wall side	AAG-03-0055-01
Twister RS485 link floor side	AAG-03-0056-01
Twister Led Matrix Power cable	AAG-03-0057-01
Twister RS485 tile cable	AAG-03-0058-01
Twister PSU to Led Matrix	AAG-03-0059-01
Fork to 1878Mils QC Rcpt, 1-wire 22AWG	AAG-03-0060-01
Dual PWR plug 2.5mmx5.5mm to fork 73inch 185cm	AAG-03-0063-01
Twister Bus Master to Floor Connection	AAG-03-0064-01
PWR Plug 2.5mmx5.5mm TO FORK 73inch 185cm	AAG-03-0065-01
PWR Jack 2.1mmx5.5mm TO FORK 72inch 183cm	AAG-03-0066-01

Hardware Kit



Ref	Part Description	Part Number	Qty
1	Pan Philips Machine Screws Zinc M4 x 10 mm	MS-PP-ZS-M4-0.4x10MM	8
2	Pan Head Machine Screw, Phillips, Black, 10-24 x 1-1/4"	MS-PP-BS-10-24X1-1/4	6
3	Hex Head Screw, Zinc, Grade 5, 1/4-20 x 3/4"	HS-HH-Z-1/4-20X3/4	6
4	Pan Phillips White Head M/S Zinc 10/24 X 1 1/4	MS-PP-WHS-10-24X1-1/4	10
5	Round head particle screws #8 x 3/4	PS-PP-BS-N08X3/4	2

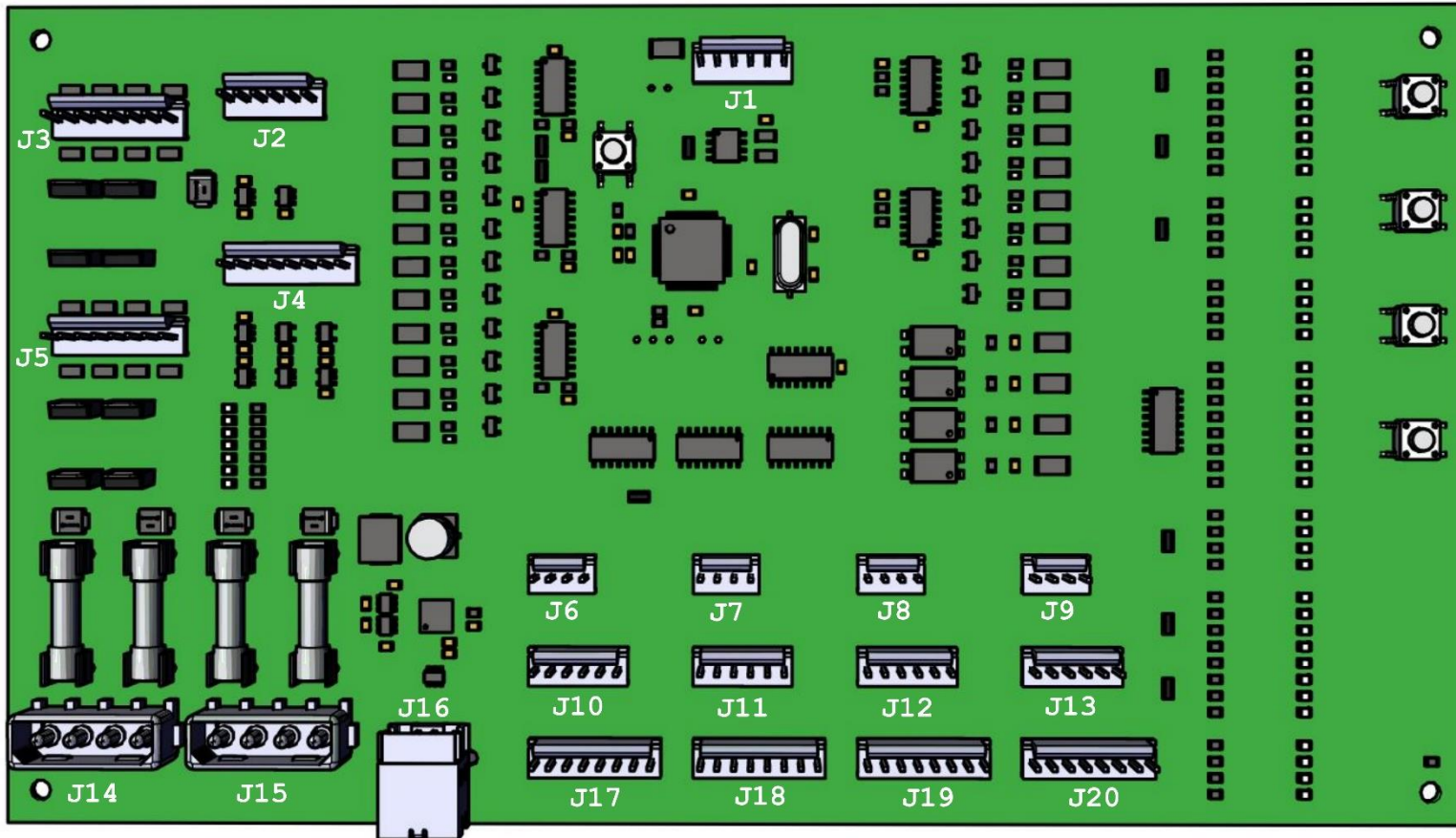
LEDs



Ref	Part Description	Part Number
1	LEDs for Top Header, Crazy Tower and Mega Crazy Tower	MCZT-14-1001

Chapter 08 – Diagrams & Schematics

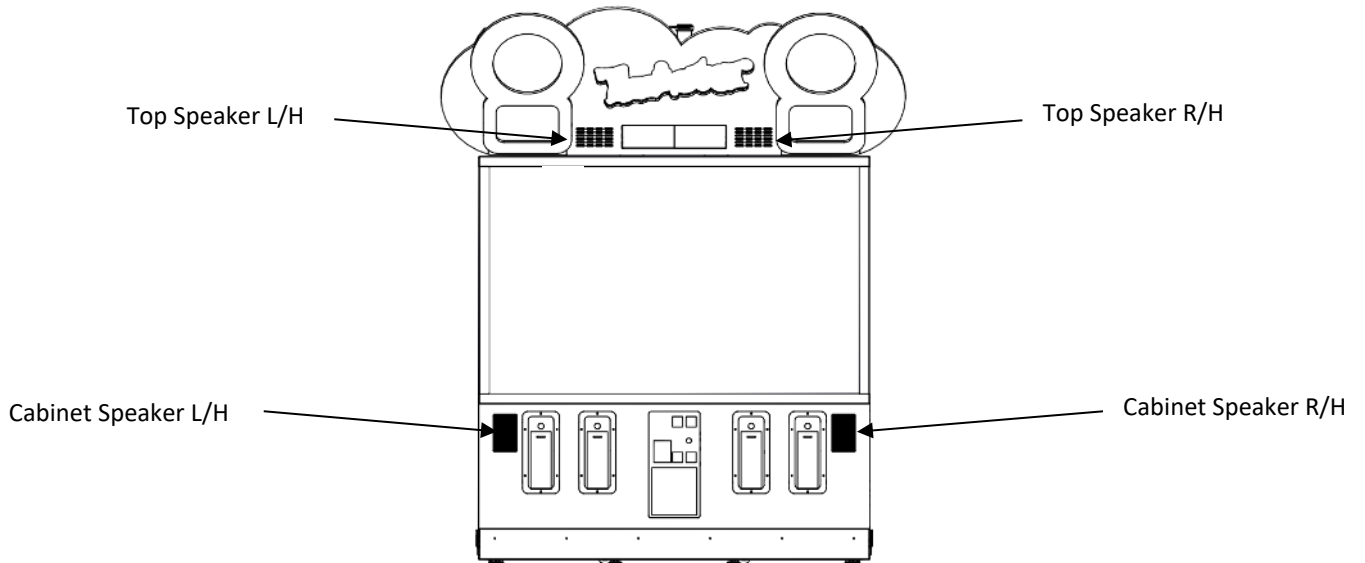
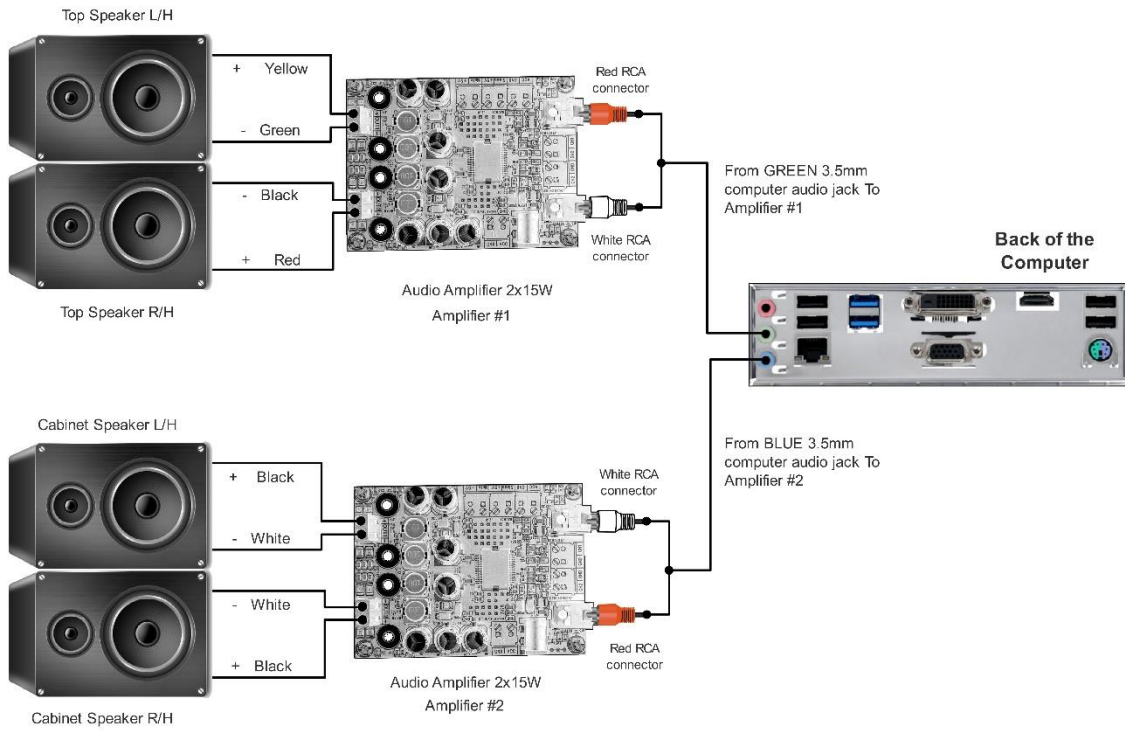
I/O Board ADR-04-1003-RL



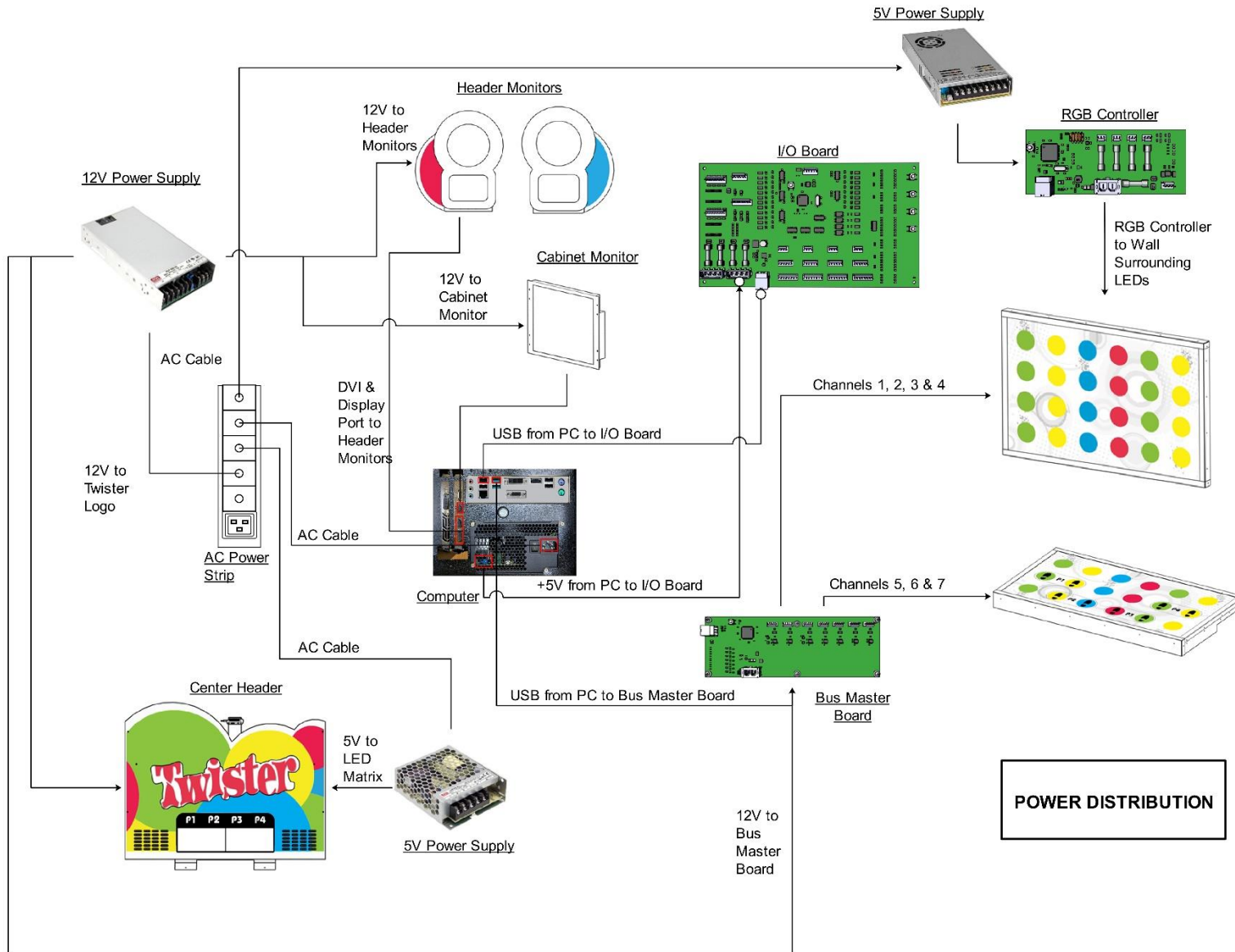
I/O Board Connections

<u>J1</u>	<u>J2</u>	<u>J3</u>	<u>J4</u>
<ol style="list-style-type: none"> 1. (Red) OPERATOR 2. Not Connected 3. Not Connected 4. Not Connected 5. (Black) GND 6. Not Connected 			
<u>J5</u>	<u>J6</u>	<u>J7</u>	<u>J8</u>
	<ol style="list-style-type: none"> 1. (White) 12V 2. (Red) OUT 3. (Black) OPTO1 4. (Green) GND 	<ol style="list-style-type: none"> 1. (White) 12V 2. (Red) OUT 3. (Black) OPTO2 4. (Green) GND 	<ol style="list-style-type: none"> 1. (White) 12V 2. (Red) OUT 3. (Black) OPTO3 4. (Green) GND
<u>J9</u>	<u>J10</u>	<u>J11</u>	<u>J12</u>
<ol style="list-style-type: none"> 1. (White) 12V 2. (Red) OUT 3. (Black) OPTO4 4. (Green) GND 			
<u>J13</u>	<u>J14</u>	<u>J15</u>	<u>J16</u>
		<ol style="list-style-type: none"> 1. (White) 2. (Yellow) 3. (Black) 4. (Red) 	USB Port
<u>J17</u>	<u>J18</u>	<u>J19</u>	<u>J20</u>
<ol style="list-style-type: none"> 1. Not Connected 2. Not Connected 3. (Red) IN1 4. Not Connected 5. (Black) GND 6. Not Connected 7. Not Connected 8. (Green) 12V 	<ol style="list-style-type: none"> 1. (White) 12V 2. (Black) GND 3. (Red) IN1 4. Not Connected 5. (Blue) GND 6. (Brown) OUT1 7. (Orange) OUT2 8. (Green) 12V 	<ol style="list-style-type: none"> 1. Not Connected 2. Not Connected 3. (Yellow) IN1 4. Not Connected 5. Not Connected 6. Not Connected 7. Not Connected 8. Not Connected 	

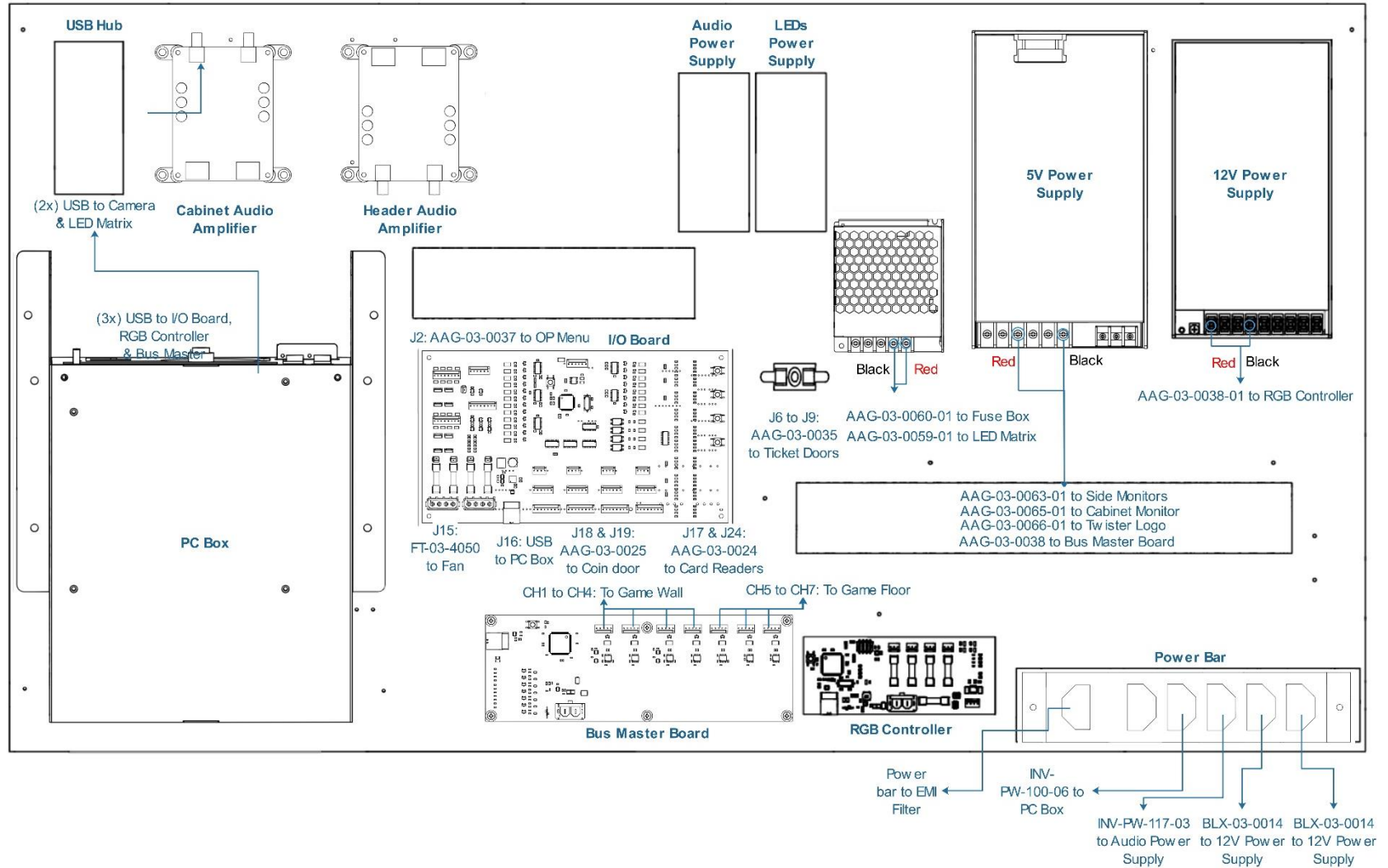
Speakers Wiring Colors



Power Distribution Schematics



Tray Assembly Schematics



Chapter 09 – Software Recovery

If your unit software needs to be restored, please follow those instructions.

- Connect a USB keyboard to the motherboard.
- Connect the provided USB Recovery flash disk is in a ***Black*** USB port.
- Power on the unit and press F11 on the keyboard to display the boot menu.
- Choose the *UEFI: USB device ~16GB*

The process takes 25-30 minutes, and the unit will reboot back in the game at the end. The Wireless credentials will need to be re-entered and Operator settings will be back at the default ones.

Chapter 10 – Card Reader

Configure your Operator settings as seen in Chapter 5 - Operator Menu.

Embed System

If you are using an Embed system, you need to connect your harnesses to Adrenaline Amusements I/O board & harnesses. You should refer to the Embed instructions manual for wiring pin-out.

The typical Embed settings are *Standard* except:

- Ticket Mech Type: Dumb DC
- Drive Polarity: Positive
- Notch Polarity: Negative
- Game ticket notch width = 6 (60ms)
- Game ticket notch spacing = 24 (240ms)
- Game Drive Threshold = 15 (1.5V or 1500mV)
- Drive Debounce = 40ms



Limited Warranty Policies

Customers must provide the unit serial number when claiming any warranty request.

Adrenaline Amusements (AAGames) warrants this Arcade unit (Including accessories) against defects in material or workmanship as follows:

This unit has a 1-year warranty against defective hardware from date of delivery.

Other than abuse or improper servicing, Adrenaline Amusements covers at no charge the replacement parts including standard shipping.

We offer an advanced replacement program, and the customers have 30 days from delivery date to return back the defective equipment at their fees or they will be charged automatically for the replacement parts.

Improper servicing or abuse will VOID existing warranties.

All warranty request needs to be validated with our technical support department.

After the 1-year warranty, Adrenaline Amusements offers repairs & sales services options. Please contact the technical support department for information.

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