Fast & Furious Arcade 43”
Operator’s Manual

FAST & FURIOUS

ARCADE

RAW THRILLS

UNIVERSAL

A COMCAST COMPANY

Fast & Furious Arcade © 2022 Universal City Studios LLC. All Rights Reserved.
Software © 2023 Raw Thrills, Inc.

This Page Left Blank Intentionally

Table of Contents

Operation 5
Transporting 5
Handling Components 5
Disconnect Power 5
Grounding 5
Electrical Shocks 5
Monitor 5
Voltage 5
Power Cord 5
Surge Suppressor 6
Water and Other Liquid Sources 6
Connectors 6
Computer 6
Ventilation 6
Hazard to Epileptics 6
Manual 6
Product Specifications 7
Electrical Power 7
Temperature 7
Humidity 7
Dimensions 7
Fuse Replacement Guide 7
12V Power Distribution 7
Setup 8
Safety Notice 8
Unpack Materials 8
Required Tools 8
Cabinet Assembly 9
Single Game Setup 9
Twin Game Setup 10
Card Reader Installation and Setup 11

CHECK ELECTRICAL SETTINGS 12
STARTUP GAME 12
SAMSUNG MONITOR SETTINGS 13
Diagnostic and Adjustments 14
BASIC FUNCTIONAL TEST ON INITIAL POWER UP 15
TEST MENUS 16
Main Menu 16
Diagnostics 17
Pricing Adjustments (Cash) 18
Pricing Adjustments (Tokens) 19
Pricing Adjustments (Swipes) 20
Game Settings 21
System Settings 22
Audits 23
Resets Menu 24
Volume 25
Calibration 26
Utilities 27
System Information 28
CHOOSING THE RIGHT PRICING ADJUSTMENTS FOR YOUR LOCATION 29
PC HARDWARE 30
PC HARD DRIVE RECOVERY 31
Troubleshooting 32
Technical Support 36
Electrical and Mechanical Illustrations 37

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.

Monitor

The monitor contains no user serviceable parts. Do not attempt to service the monitor.

Voltage

Each game is manufactured for a specific AC voltage. Before applying power, verify that the AC voltage matches the game’s specified voltage rating.

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.
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.

Ventilation

It is critical that the game is installed in a manner that allows for proper ventilation and air flow. Game must be installed such that there is a minimum amount of clearance between the wall or another game to allow good air circulation through the game cooling fans and vents.

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. You may not reproduce this document or any of its contents without written authorization from Raw Thrills, Inc.

Product Specifications

Electrical Power

United States, Canada (ETL)
Voltage: 120VAC / 60 Hz
Operating AC Current: 5 Amps

International (CE)
Voltage: 230VAC / 50/60Hz
Operating AC Current:3 Amps

Temperature

50° F to 104° F
(10° C to 40° C)

Humidity

Must not exceed 95% relative humidity

Dimensions

94”H x 40”W x 85”D (238.76cm H x 101.6cm W x 215.9cm D)
Approximate weight 500lbs. (227kg)

Fuse Replacement Guide

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

12V Power Distribution

Please see unit for specified fuse labeling.
Abbreviations:

5A 250V	5A, 250VAC Fast Acting 3AG Fuse	Littlefuse 0312005.MXP (or equivalent)

Setup

Safety Notice

A 6-foot step ladder (minimum height) is required as part of the installation process (for marquee installation). Make sure that you are familiar with the manual contents, game setup, and operations before you begin the installation process. Do not push or pull on the decorative items such as the spoiler to move the game. Doing so can damage the decorative items. Be aware of your surroundings and individuals around you during the installation process for your safety and the safety of others. Work only in an area with sufficient lighting and a clean level surface.

Unpack Materials

1. Place the shipping crate(s) on a flat, stable surface.
2. Cut the banding straps and remove the cardboard lids.
3. Lift off the large cardboard containers surrounding the cabinet assembly and remove any shipping cleats.
4. Remove the keys from the front dash.
5. Check for shipping damage to the following:
   - Monitor(s)
   - Monitor bracket
   - Cabinet decals
6. Check the AC line cords for visible signs of damage.
   Pay particular attention to the plug and line cord insulation.

Required Tools

- Drill Driver
- T-27 Tamper Resist Torx Bit
- 6ft Step Ladders (Minimum Height)

Cabinet Assembly

⚠ CAUTION

UNDER NO CIRCUMSTANCES SHOULD THIS GAME BE OPERATED UNLESS ALL INSTALLATION PROCEDURES HAVE BEEN COMPLETED AND ALL SAFETY FEATURES HAVE BEEN POSITIVELY TESTED AND ARE FULLY FUNCTIONAL!

*******It is recommended that the main cabinet be moved to or very near its desired operational location before beginning any of the setup tasks*******

Single Game Setup

1. Remove the lower rear door.
2. Remove the upper rear door.
3. Unpack the single game marquee and use the supplied hardware to install. Pierce the top stripe decal to access hidden holes.
4. Run the power cable through the hole in the top of the cabinet and connect it inside the cabinet to the mating connector.
5. Move the cabinet to the desired location and set the leg levelers to the down position.
6. Return the rear doors to their operating position.
7. Plug in the AC cord at the rear of the cabinet and power on.

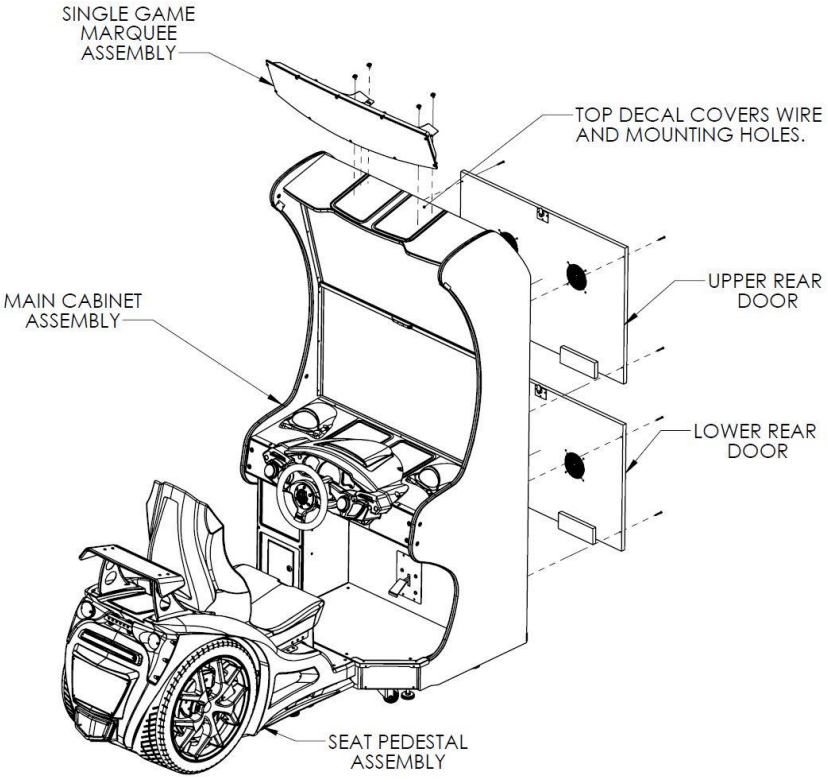


fig. a

Twin Game Setup

1. Remove the lower rear door.
2. Remove the upper rear door.
3. Unpack the twin marquee and use the supplied hardware to install. Pierce the top stripe decal to access hidden holes.
4. Run the power cables through the respective holes in each cabinet top and connect them separately inside the right and left cabinets to the mating connectors.
5. Install the decorative side arches to the left and right outer cabinet walls using the five screws, lock and flat washers that are provided.
6. Align the cabinets next to each other in the desired location and set the leg levelers to the down position.
7. Return the rear doors to their operation position.
8. Plug in the AC cords at the rear of each cabinet and power on.

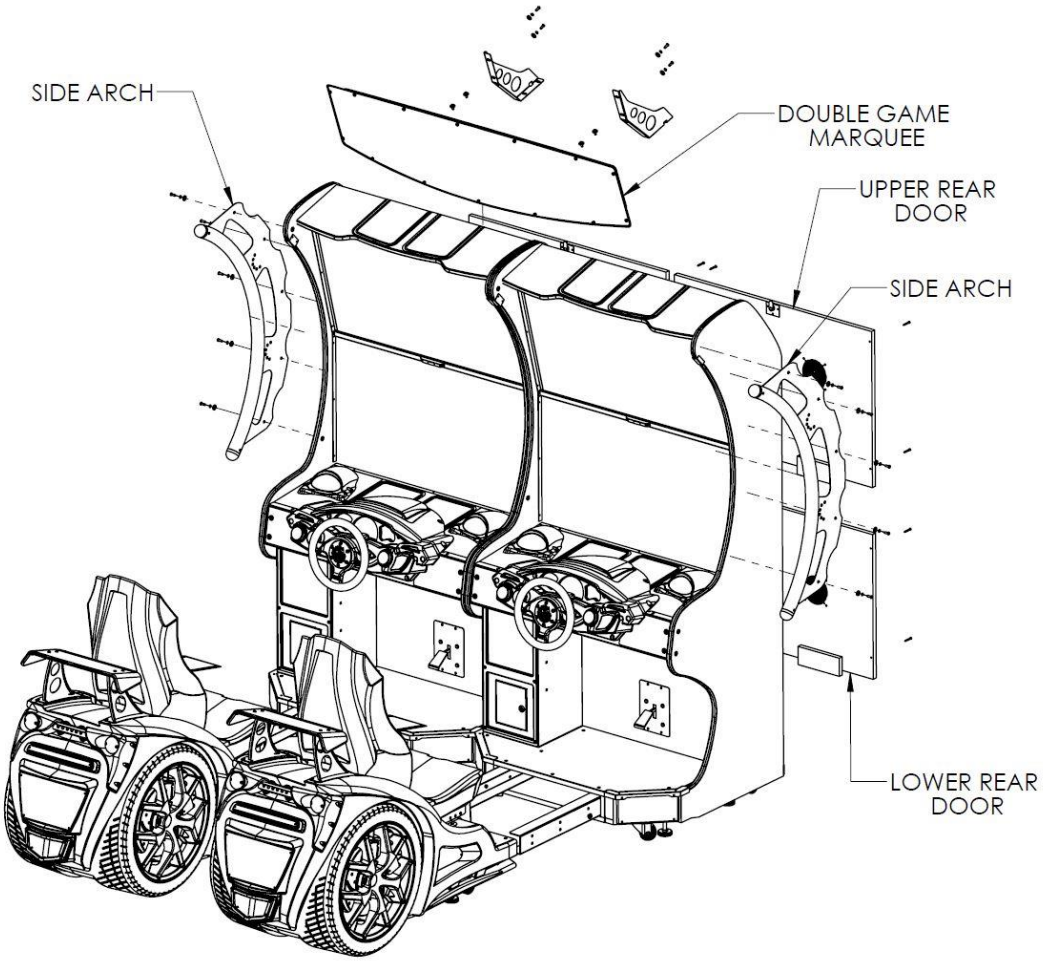


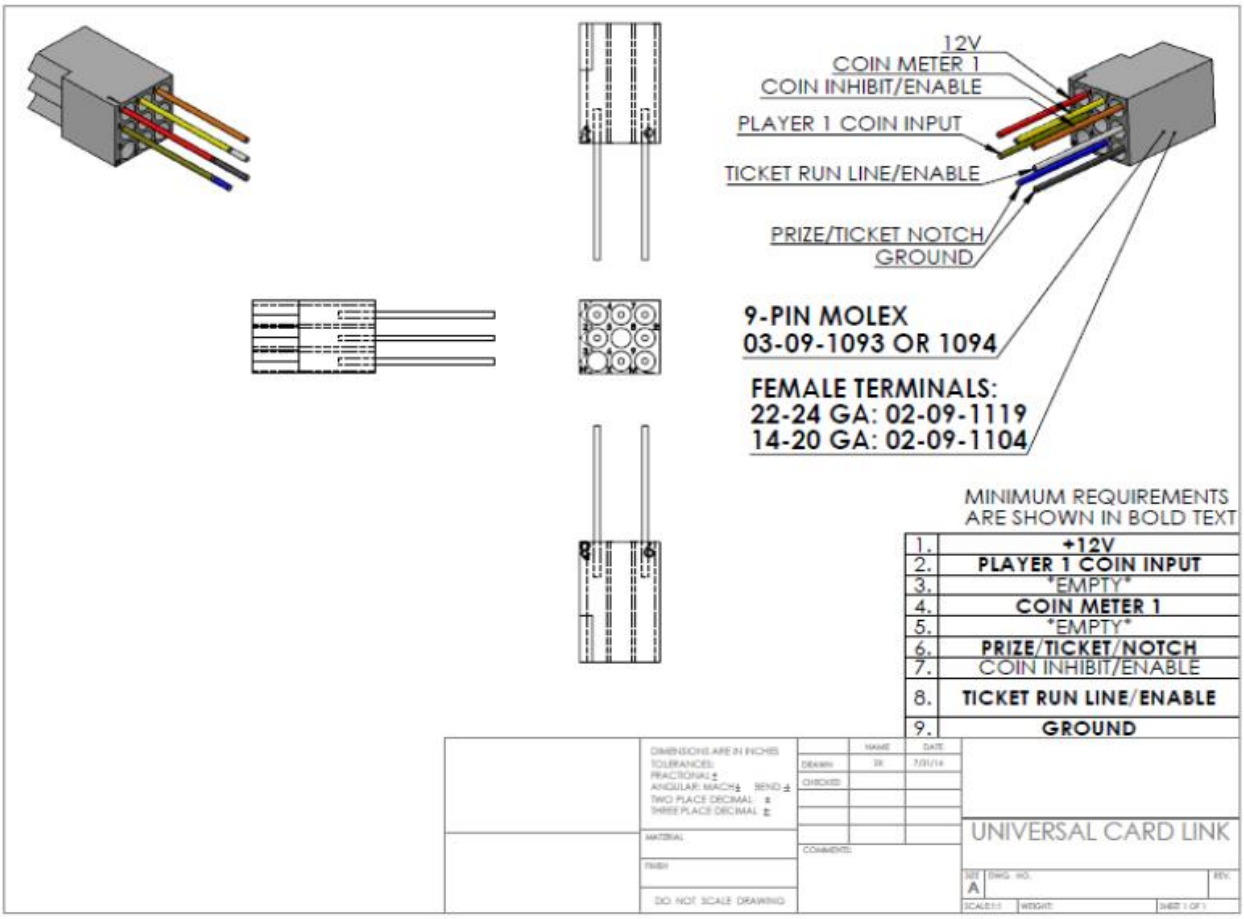
fig. b

Card Reader Installation and Setup

Due to the rising popularity of aftermarket debit card systems for cashless or coinless operation of amusement machines (i.e. Embed, Intercard, Semnox), this Fast & Furious Arcade cabinet is equipped with UCL compatible harnessing to ensure that the installation process is easier and less prone to miswiring.

UCL, or Universal Card Link, is a debit card standard established by the American Amusement Machine Association. Visit https://coin-op.org/standardization/ for the latest UCL standard and manual information.

The UCL connections on the game use pins 1, 2, 6, 8, and 9. The other pins are unused. Each UCL connector can supply up to 1A at 12VDC.



You can choose to use 1 card reader in the pricing adjustments section of the test menu. It is recommended to use 1 card reader for best results and player access.

There is (1) supplied connection, located on the driver cabinet assembly behind the dash plate to the right of the steering wheel. It is recommended that the card reader be mounted to the bottom right corner of the dash, using the provided UCL connector and provided mounting holes.

Check Electrical Settings

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

Startup Game

1. Plug the two line cords into an AC outlet (**Recommended: plug the line cords into a dedicated breaker to prevent capacity overload (5A@120VAC, 5A@230VAC))**.
2. Turn the main cabinet power switches on (there are two switches, GAME and COMPRESSOR).
3. Calibrate the steering (follow onscreen prompts).
4. Calibrate the gas and brake pedals (follow onscreen prompts)
5. Calibrate the camera (follow onscreen prompts).
   *****MACHINE IS NOT OPERATIONAL WITHOUT FIRST CALIBRATING THE HARDWARE*****
6. Verify the game and all components are operating normally. See *Basic Functional Test on Initial Power Up* in the *Diagnostics and Adjustments* section for the recommended procedure.
7. Complete the monitor setup for both monitors (next page).

*****IMPORTANT*****

PLEASE FOLLOW INSTRUCTIONS TO SET UP MONITORS

SAMSUNG MONITOR SETTINGS

Model #BE43T

STEP 1: Verify game is connected to monitor in HDMI IN 1 at rear of monitor.

STEP 2: Power on GAME cabinet and MONITOR, wait about 30 seconds.

STEP 3: Press the power button on the remote. This only needs to be done once during initial setup.

1. Language => [x] English
2. Connection Guide => NEXT
3. Installation Type => [x] Basic Setup
4. Wireless Connection => SKIP <right arrow>
5. Select Your TV Source => I don't receive a broadcast signal

STEP 4: Press the "SOURCE" button on the remote. Navigate to "HDMI 1."

STEP 5: Press "MENU" on the remote to enter the settings menu.

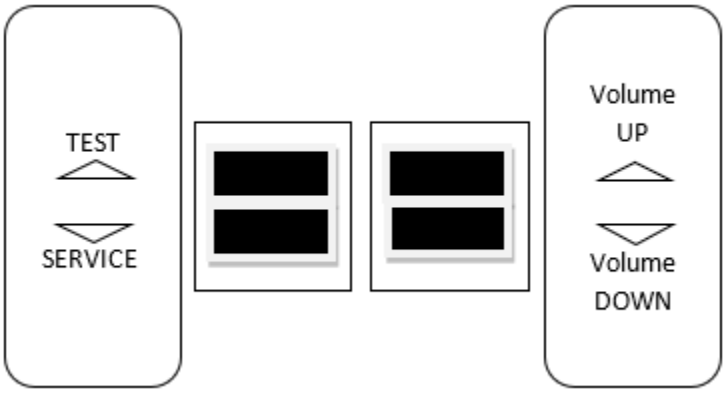
STEP 6: Verify the settings below, navigating with the remote:

- GENERAL
    - EXTERNAL DEVICE MANAGER
        - GAME MODE: ON
        - HDMI BLACK LEVEL: NORMAL
    - ECO SOLUTION
        - POWER SAVING MODE: OFF (default)
        - AUTO POWER OFF: OFF (default)

Diagnostic and Adjustments

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

The control panel buttons can also advance through test menu screens.



Navigating the Test Menu	
Button	**Action**
TEST (Not in Test Menu)	Enters Test Menu
TEST (In Test Menu)	Selects Highlighted Option
SERVICE (On Main Menu)	Exits Test Menu
SERVICE (Not on Main Menu)	Cancels Selection
VOLUME UP/Tunes Button	Move Up
VOLUME DOWN/View Button	Move Down
Start Buttons	Selects Highlighted Option
Stop Motion Button	Return to Previous Screen

When in the Pricing Menu, an on-screen message acknowledges changes or when you exit a selection without making a change.

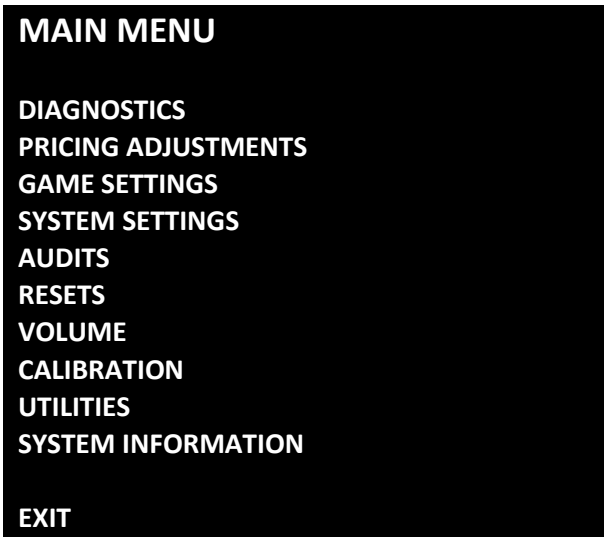
Basic Functional Test on Initial Power Up

1. Enter the Input Test and verify all switch inputs are working.
2. Enter the Monitor Test and verify the monitor is working properly.
3. Enter the Sound Test and verify the audio works and is not distorted.
4. Enter the Light Test and verify that all the lights are working properly.
5. Enter the Coin Meter Test and verify the coin meter is working properly.
6. Enter the Watchdog Test and verify the game reboots.
7. Upon a successful reboot, you are ready to adjust pricing, volume and other functions.

Test Menus

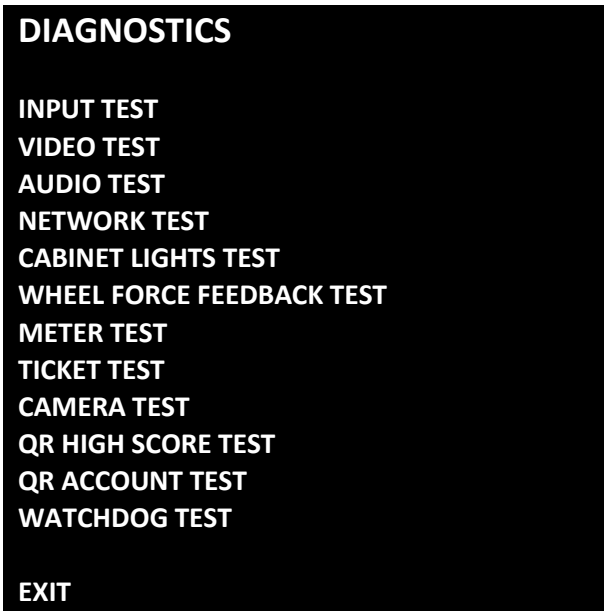
Main Menu

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



Diagnostics

Verify or diagnose the operations of all game functions.



- **Input Test**: Test input hardware such as switches.
- **Video Test**: Checks color pattern of monitors.
- **Audio Test**: Test audio using 100Hz and 1000Hz.
- **Network Test**: Test the connectivity between linked games.
- **Cabinet Lights Test**: Tests all LED cabinet lighting together and individually.
- **Wheel Force Feedback Test**: Test steering wheel force feedback.
- **Meter Test**: Test the functionality of the mechanical coin meter inside the cabinet.
- **Ticket Test**: Test the functionality of the ticket mech.
- **Camera Test**: Test the functionality of the camera.
- **QR High Score Test**: Test the functionality of the QR high score code.
- **QR Account Test**: Test the functionality of the QR system.
- **Watchdog Test**: Test the functionality of the Watchdog (if successful the cabinet will power off and reboot).

Pricing Adjustments (Cash)

Set pricing and payout adjustments for game operation.

- **Freeplay**: Turn free play mode on or off.
- **Currency Input**: Change the currency input.
- **Currency Type**: Change the currency type.
- **Coin Value**: Change the money value of the coin.
- **Coins to Play**: Adjust the amount of coins to start a game.
- **Coins to Continue**: Adjust the amount of coins to continue a game.
- **Coins to Upgrade**: Adjust the amount of coins to upgrade the player's car before the start of the race.
- **Max Credits**: Adjust the maximum number of credits.
- **Bonus Pricing**: Turn on (default off) to allow players to pay for multiple races at a discount.
- **E Ticket Mode**: N/A for cash settings.

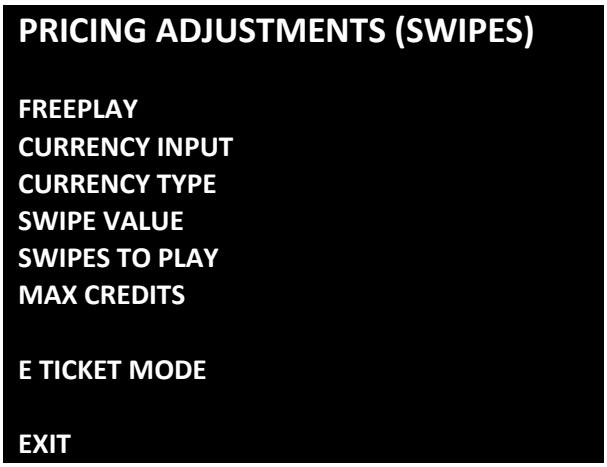
Pricing Adjustments (Tokens)

Set pricing and payout adjustments for game operation.

- **Freeplay**: Turn free play mode on or off.
- **Currency Input**: Change the currency input.
- **Currency Type**: Change the currency type.
- **Token Value**: Change the money value of the token.
- **Tokens to Play**: Adjust the amount of tokens to start a game.
- **Tokens to Continue**: Adjust the amount of tokens to continue a game.
- **Tokens to Upgrade**: Adjust the amount of tokens to upgrade the players car before the start of the race.
- **Max Credits**: Adjust the maximum number of credits.
- **Bonus Pricing**: Turn on (default off) to allow players to pay for multiple races at a discount.
- **E Ticket Mode**: N/A for token settings.

Pricing Adjustments (Swipes)

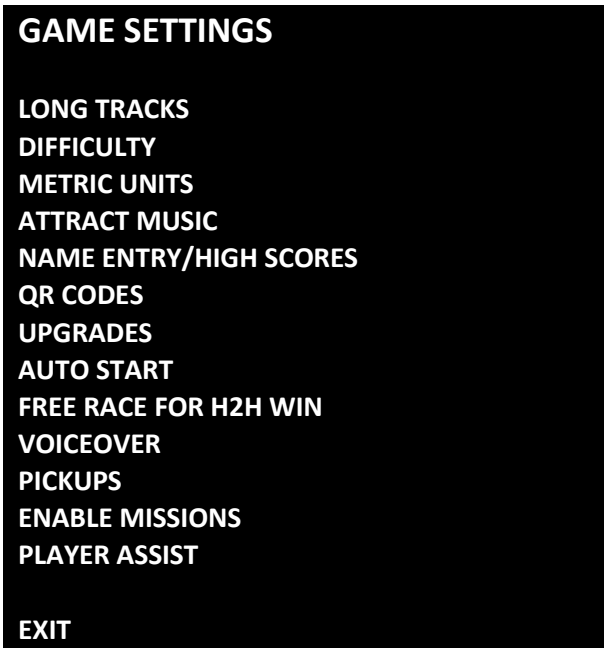
Set pricing and payout adjustments for game operation.



- **Freeplay**: Turn free play mode on or off.
- **Currency Input**: Change the currency input.
- **Currency Type**: Change the currency type.
- **Swipe Value**: Money value of the swipe.
- **Swipes to Play**: Adjust the amount of swipes to start a game.
- **Max Credits**: Adjust the maximum number of credits.
- **E Ticket Mode**: Turn E Tickets on or off (default off).

Game Settings

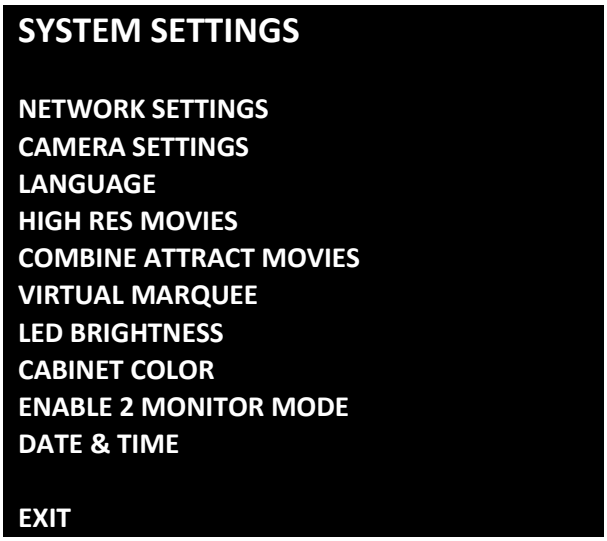
Adjust game settings for operation.



- **Long Tracks**: When enabled, track length will be about 2:30 instead of 1:30.
- **Difficulty**: Adjust the game difficulty.
- **Metric Units**: Use metric units like KPH and meters.
- **Attract Music**: How often should music play in attract mode.
- **Name Entry/High Scores**: Turn on or off (default on). When on, players may enter their name and show high scores after finishing a race.
- **QR Codes**: Turn on or off (default off). When on, the venue and location must be set. This allows players to scan a QR code after race to share their high scores on social media sites. Additionally, this enables QR player login during car select or track select, so the player can view their achievements online, along with saving their QR login info.
- **Upgrades**: Turn on or off (default on). When on, this allows the players to purchase upgrades before the start of a race.
- **Auto Start**: Start the game when player inserts credits.
- **Free Race for H2H Win**: Turn on or off (default off). When on, the winner of a head to head race against another player will receive a free race.
- **Voiceover**: Enable/disable voiceovers during a race and in the menus.
- **Pickups**: Enable/disable pickups. This includes nitro and electric pickups.
- **Enable Missions**: Enable missions gameplay or make game just a race only.
- **Player Assist**: Assist player with auto gas if they don't use the gas pedal.

System Settings

This menu allows for customization of various system settings.



- **Network Settings**: Turn on for linked games (leave off if operating a single game). **The cabinets must be numbered in order from left to right. This ensures gameplay elements display correctly.**
- **Camera Settings**: Change settings for photo camera (on or off).
- **Language**: Set in-game language.
- **High Res Movies**: Play highest resolution movies possible. Turn off if you experience stuttering.
- **Combine Attract Movies**: Combine attract movie screens across networked games.
- **Virtual Marquee**: Show a game title marquee at the top of the screen during attract and gameplay.
- **LED Brightness**: Adjust the brightness of the cabinet LED lights.
- **Cabinet Color**: Specify the color of the cabinet plastics.
- **Enable 2 Monitor Mode**: Enable 2 monitor mode (required for Virtual Marquee).
- **Date & Time**: Use to set the date and time.

Audits

Audit screen helps assess game performance, find intermittent problems, decide whether to adjust game difficulty and help maximize game earnings.

There are no special menu options for this test menu entry.

Resets Menu

Resets menu allows for the resetting of various machine settings and audits.

- **Reset Credits**: Reset credits to zero (0).
- **Reset Tickets**: Clears out all tickets owed on the game.
- **Reset Pricing Adjustments**: Reset all pricing settings to default.
- **Reset Game Adjustments**: Reset all game settings to default.
- **Reset Leaderboards**: Reset all high score tables.
- **Reset Game Audits**: Reset all game related audits.
- **Reset System Audits**: Reset all system audits.
- **Reset Coin Audits**: Reset all coin audits.
- **Reset All Audits**: Reset all audits.
- **Factory Restore**: Restore game to default factory settings.

Volume

Volume adjustments.

- **Game Volume**: Adjust the volume during gameplay (from 0 to 20).
- **Attract Volume**: Adjust the volume during the attract mode sequences (from 0 to 20).
- **Credit Volume**: Adjust the volume of the credit chime (from 0 to 20).

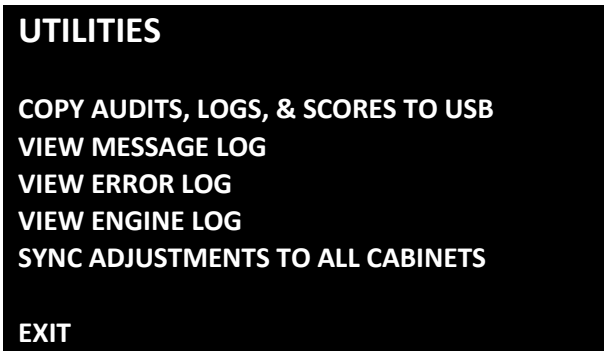
Calibration

Calibration of hardware.

- **Input Calibration**: Calibrate the input POTS such as steering.
- **Camera Calibration**: Calibrate camera orientation.

Utilities

Miscellaneous operator tools.



- **Copy audits, logs, & scores to USB**: Copy all audits and diagnostics to USB drive.
- **View Message Log**: Examine logged messages from the game.
- **View Error Log**: Examine error messages from the game.
- **View Engine Log**: Examine game engine messages.
- **Sync Adjustments to All Cabinets**: Sync all game, pricing, and volume settings with all networked games.

System Information

This screen allows you to see various information about the software and hardware.

- Serial Number
- Software Revision
- Build Date
- RIO PCB
- RIO Firmware
- Dongle Version
- Cabinet Type
- Game Template

There are no special menu options for this test menu entry.

Choosing the Right Pricing Adjustments for Your Location

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 Adjustments" from the menu.
  3. Select "Currency Input" from the menu.
  4. Select "Card Swipes" from the menu.
  5. Exit out of "Currency Input" menu.
  6. While back in "Pricing Adjustments" menu, set "Swipe Value" to the currency equivalent of your swipe, or the payout will be incorrect. **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).

Coin/Token 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 Adjustments" from the menu.
  3. Select "Currency Input" from the menu.
  4. Select "Cash" or "Tokens" from the menu.
  5. Exit out of "Currency Input" menu.
  6. While back in "Pricing Adjustments" menu
     a. Select "Coins to Play" and set the desired amount of coins per game of Fast and Furious Arcade.
     b. After setting the coins per play, set "Coin Value" to the currency equivalent of your coin, or the 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).

PC Hardware

Your *Fast & Furious Arcade* game uses a **Lenovo M70t Desktop PC.**

(*above: Lenovo M70t Desktop PC*)

NOTICE

WARNING: DO NOT ENTER THE BIOS SETTINGS MENU! Modifying the BIOS settings will cause your game to stop functioning. In order to boot, new security features verify the BIOS settings against factory settings, including timestamp.

PC Hard Drive Recovery

Symptoms requiring a PC hard drive recovery include:

- File test reports bad or missing files.
- Game fails to finish loading during setup.
- After resetting the AC power, an error is reported.
- Erratic Game or Attract Mode behavior.

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. Contact 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 reinstall the software (the game ships with (1) USB drive which is used in the steps below):

(USB Thumb Drive is used on the *Lenovo M70t*)

*****ATTENTION: An approved "Business Account" on rawthrills.com is required to complete software installation. Please complete account activation before installing software!*****

*****See website for details: https://rawthrills.com/raw-web/login*****

1. With game and PC on, verify that the RIO2 board has power. If not, see Troubleshooting.
2. Open the upper back door of the cabinet.
3. Insert the recovery USB thumb drive (included in your game) into an open USB port on the PC.
4. Turn cabinet power switch to OFF. Wait 30 seconds.
5. Turn cabinet power switch to ON. Wait for install menu to load.
6. Once the install menu has loaded, press the Test button on the service bracket to select the installation program and then press the Test button to confirm that you want to continue with the installation.
7. Follow on screen instructions to begin recovery.
8. If recovery does not begin, check to ensure USB Drive is inserted correctly and is not damaged.
9. Initial software loading may take several minutes. Check progress periodically.
   Do not interrupt power or reset the game during recovery.
10. When software has been loaded, a message indicates that restore is complete. When instructed to remove USB Drive, wait 15 seconds then remove the drive from the PC.
11. Turn cabinet power switch off. Wait 30 seconds. Turn the cabinet on again.
12. Scan the QR code to the left or click here (if viewing on electronic device) for instructions on completing setup.

Troubleshooting

Warning: Review the Safety section before making any adjustments to the game.

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 section for fuse values.
	No power to receptacle.	Test AC outlet and plug game into powered outlet.
	PC BIOS set incorrectly.	Contact your distributor.
	Flash Drive Installer is left connected to PC.	Disconnect Flash Drive Installer and power cycle the game.
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.

Problem	Possible Cause	Solution
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 and the audio PCB. Verify that audio PCB is connected to the computer via USB cable.
	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, disconnect the USB cable coming from the audio PCB and 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.
RIO2 disconnected	USB cable disconnected.	Check USB connection from PC to RIO2 board.
	No power to RIO2 board.	Check for proper voltage (+5V, +12V) at RIO2 P1 connector.
Message on screen: Game dongle not found. Please RECONNECT the game dongle.	Dongle missing or disconnected.	Find the dongle cable and reseat in USB port.
	Faulty USB port.	Insert dongle cable in different USB port.

Problem	Possible Cause	Solution
Message on screen: Insufficient RAM, 16GB required.	Loose or disconnected RAM stick.	Contact your distributor for service.
	Faulty RAM stick.	Contact your distributor for service.
Message on screen: GFX card missing. Please RECONNECT the GFX card.	Loose or disconnected graphics card.	Contact your distributor for service.
	Faulty graphics card.	Contact your distributor for service.
Game does not load.	PC hard drive failure.	Recover hard drive. See Flash Installer Document or contact your distributor for the latest software revision.
PC Drive test reports "bad" or "missing" files.		
Game fails to finish loading.		
After resetting, game still reports an error.		
Erratic game mode or attract mode.		
WARNING! Data files Corrupted. (Game Operation May Become Unstable.)		
Game Resets	Bad file.	Run Flash Installer.
No Video	PC not turned on.	Turn PC power switch on. Ensure IEC cable tightly plugged in. Trace cable back to source to ensure continuity.
	Video cable not secure.	Check and secure HDMI connector(s) to Monitor(s). Check and secure DVI or HDMI connector(s) to PC.
	Cabinet was powered on too quickly after a manual shutdown/power loss	Shut off cabinet via both switches at rear of cabinet. Leave off for 30 seconds, then power back on.

Problem	Possible Cause	Solution
Coin meter does not click during test.	No pulse to meter.	Check wiring from meter to PCB board.
	Faulty meter.	Replace coin meter.
	Blown fuse(s) on PCB	Replace 12vdc 5A fuse(s) on PCB.
Exits Test Mode every 3 seconds.	Test button stuck in ON position.	Slide or toggle button off after Test Menu appears
Improper number of credits given when bills are inserted.	Incorrect setting in Pricing Adjustments.	Adjust pricing settings.
	Faulty wiring.	Disconnect cabinet from AC power. Verify wires are firmly connected to bill validator and ground wires are properly connected. Verify no wires are frayed or shorting to ground.
Onscreen message: "Version Mismatch" appears after reinstalling/updating software	One or more cabinets is running a different version of software.	Enter test menu on each cabinet. Check the version number in the top left corner. Using the USB drive that came with your game (or a USB drive from your distributor) install latest version to any mismatched cabinets (***see pg. 31 for installation procedure***). Once installation is complete, power cycle all cabinets. The message should disappear.
	Software install/update did not complete correctly.	
Top and bottom monitor images are reversed	Connections at PC are connected to the incorrect ports.	Verify that top monitor HDMI cable is connected to the HDMI port on the video card at rear of PC. Verify that bottom monitor HMDI-DVI cable is connected to the DVI port on video card at rear of PC. If not, swap the cables around and reboot the cabinet.
Linked game monitor displays are not displaying linked attract properly	Cabinets are number incorrectly.	Test menu – System Settings – Network Settings: Verify that the cabinets are numbered from left to right in numerical order.

Technical Support

For an authorized distributor near you, check the Raw Thrills website at www.rawthrills.com

Betson's Raw Thrills Technical Support Hotline
Phone: 1-800-753-2513
FAX: 1-201-438-5019
Email: rtsupport@betson.com

All Raw Thrills assembly and service videos:

rawthrills.com/assembly-and-service-videos/

Electrical and Mechanical Illustrations

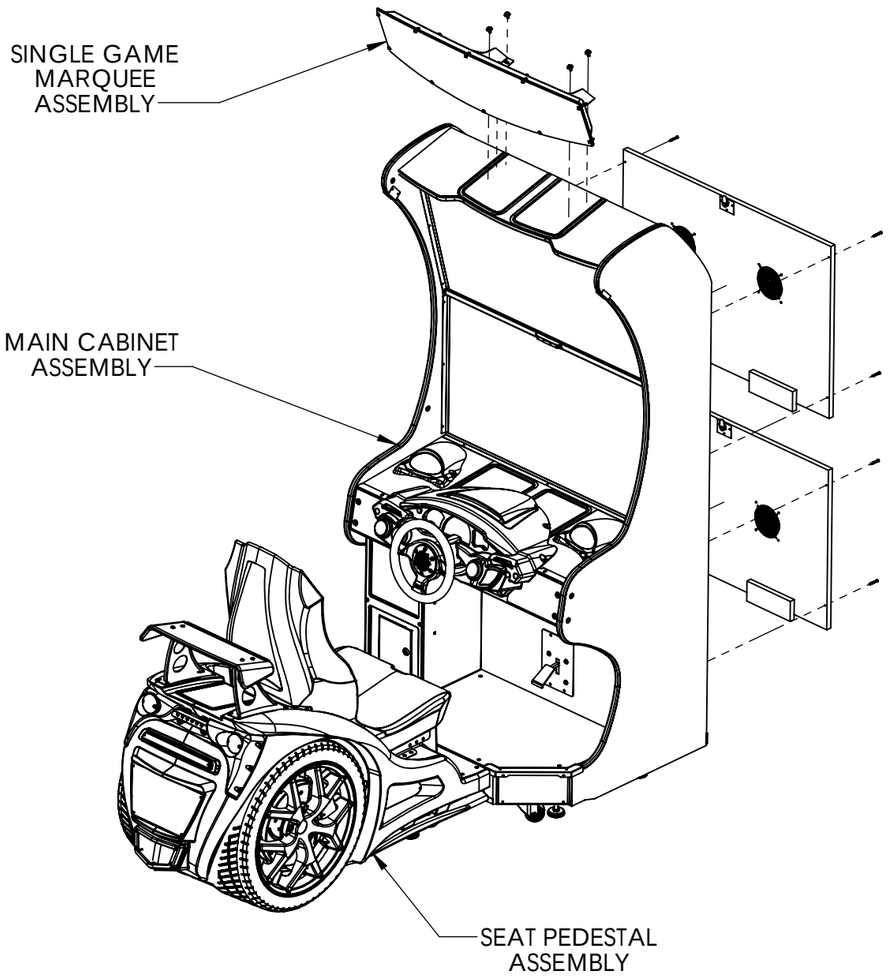
Pg. 38 – Single Game Operational Dimensions
Pg. 39 – Single and Twin Game Setup Instructions
Pg. 40 – Main Cabinet Assembly Diagram
Pg. 41 – Control Panel and Dash Assembly Diagrams
Pg. 42 – Pedestal Assembly Diagram
Pg. 43 – Seat Assembly Diagram
Pg. 44 – Rear Spoiler Assembly Diagram
Pg. 45 – Single Game and Twin Game Marquee Assembly Diagrams
Pg. 46 – Main Upper Harness and PCB System Diagram
Pg. 47 – Main Lower Harness and DC Distribution System Diagram
Pg. 48 – Seat Cabinet System Diagram
Pg. 49 – Dash System Diagram
Pg. 50 – Vault System Diagram
Pg. 51 – PC, Monitors, and AC Distribution System Diagram

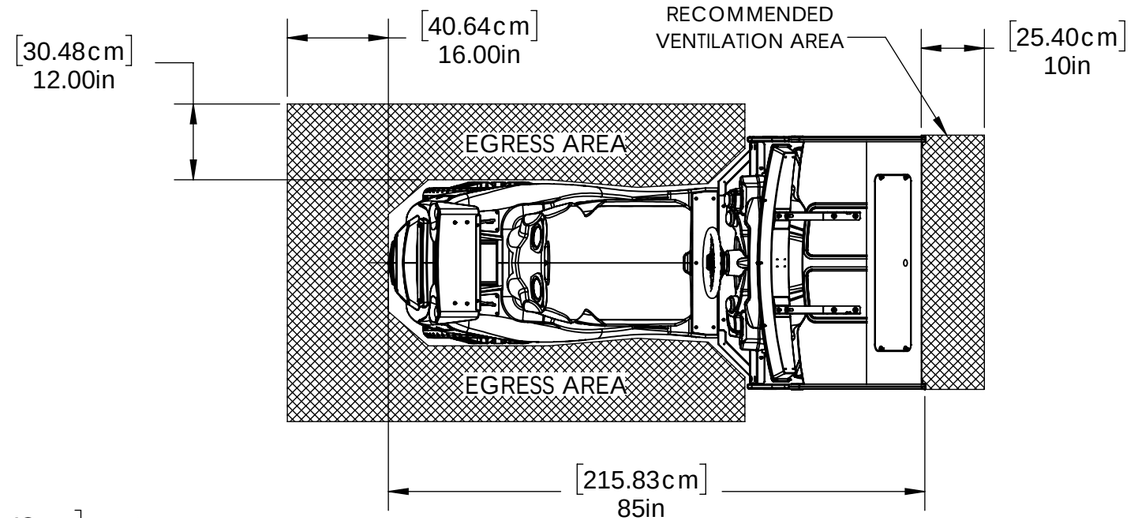
For the latest manual and information regarding this game scan the QR code or click here (if viewing on an electronic device)

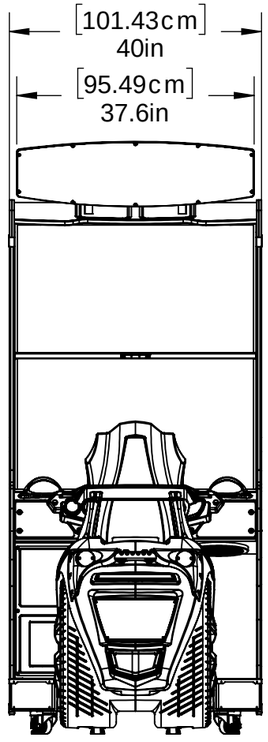
FAST AND FURIOUS 43" DUAL SCREEN

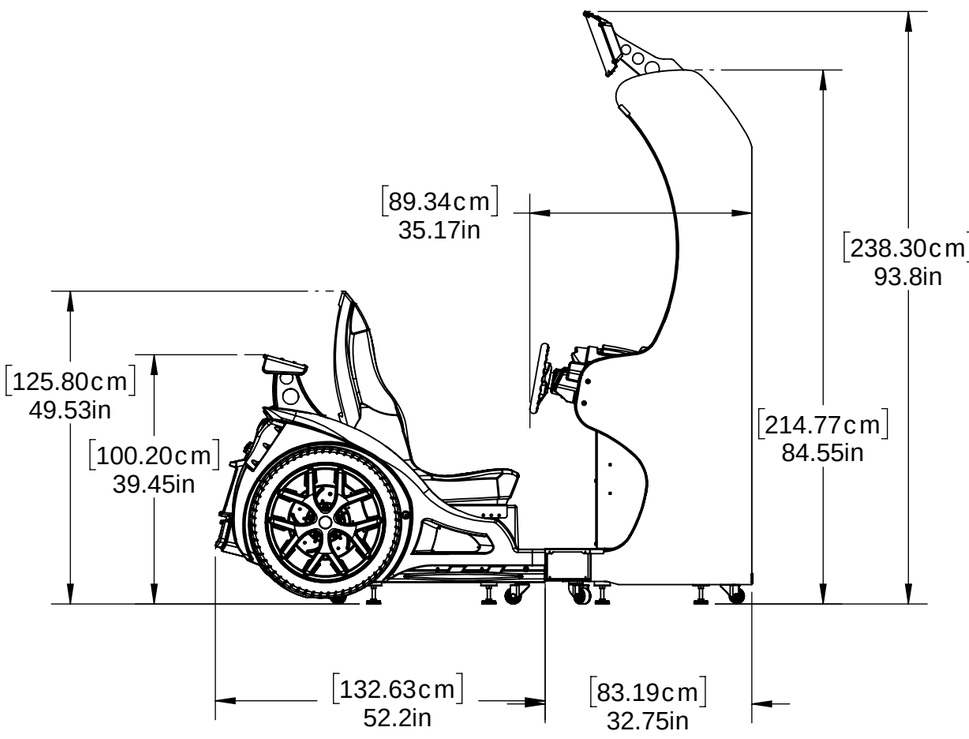
DIMENSIONS-85" L X 40" W X 94" H

WEIGHT- 500 LBS -estimated





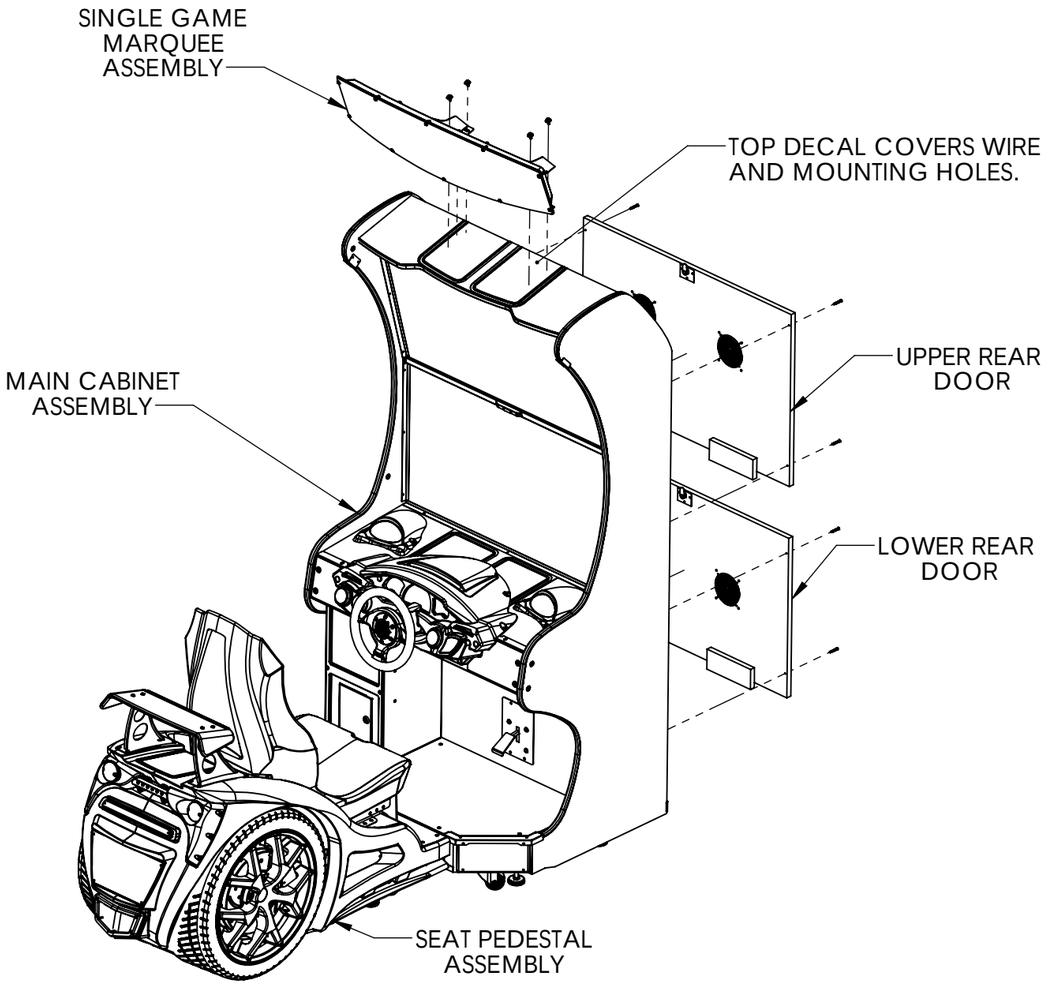




FAST AND FURIOUS 43" SINGLE GAME SETUP

1) REMOVE LOWER REAR DOOR.
2) REMOVE UPPER REAR DOOR.
3) UNPACK SINGLE GAME MARQUEE AND USE SUPPLIED HARDWARE

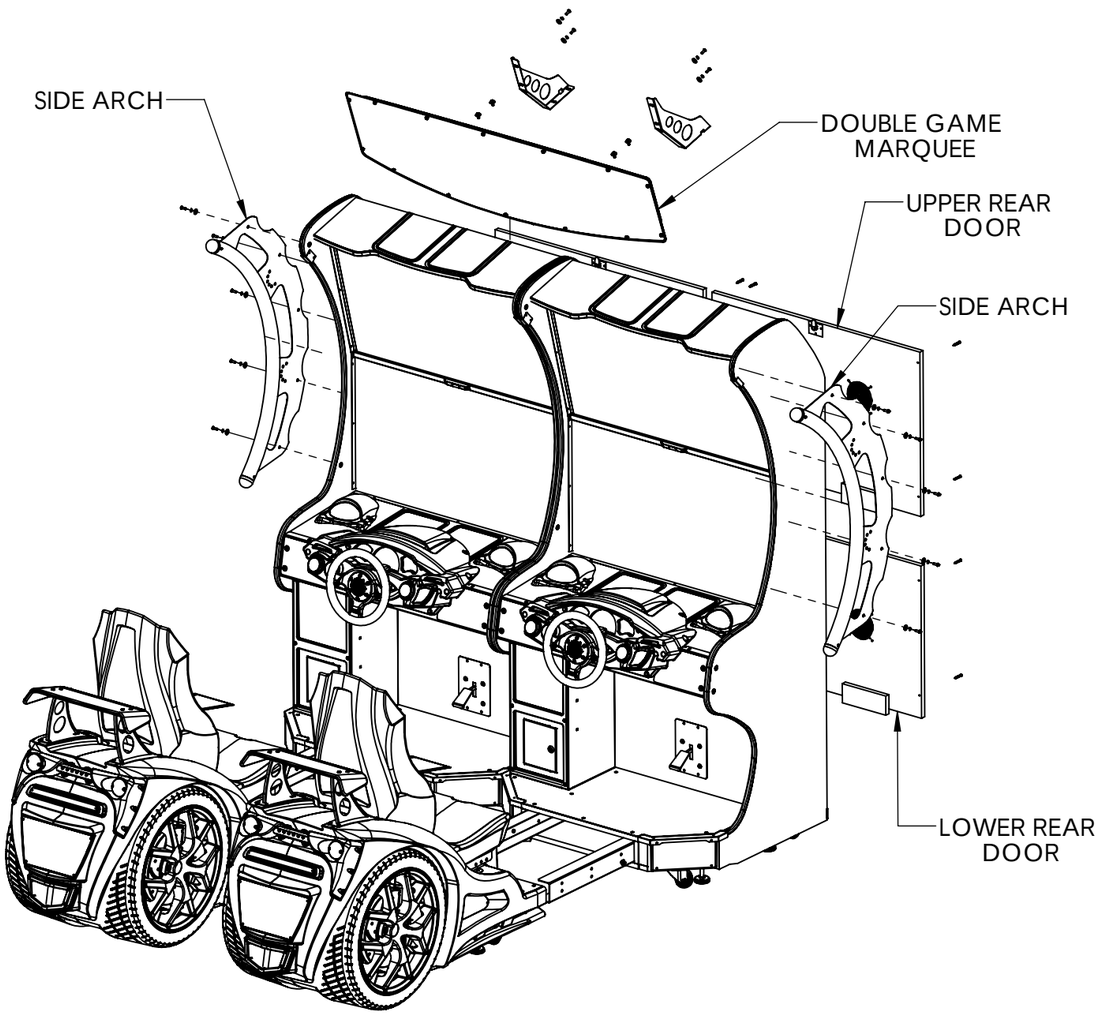
PIERCE THE TOP STRIPE DECAL TO ACCESS HIDDEN HOLES.
4) RUN POWER CABLE THROUGH HOLE IN TOP OF CABINET AND CONNECT INSIDE CABINET TO MATING CONNECTOR.
5) SET LEG LEVELERS IN THE DOWN POSITION.
6) RETURN THE REAR DOORS TO THEIR OPERATING POSITION.
7) PLUG IN AC CORD FROM BACK OF GAME AND POWER ON.



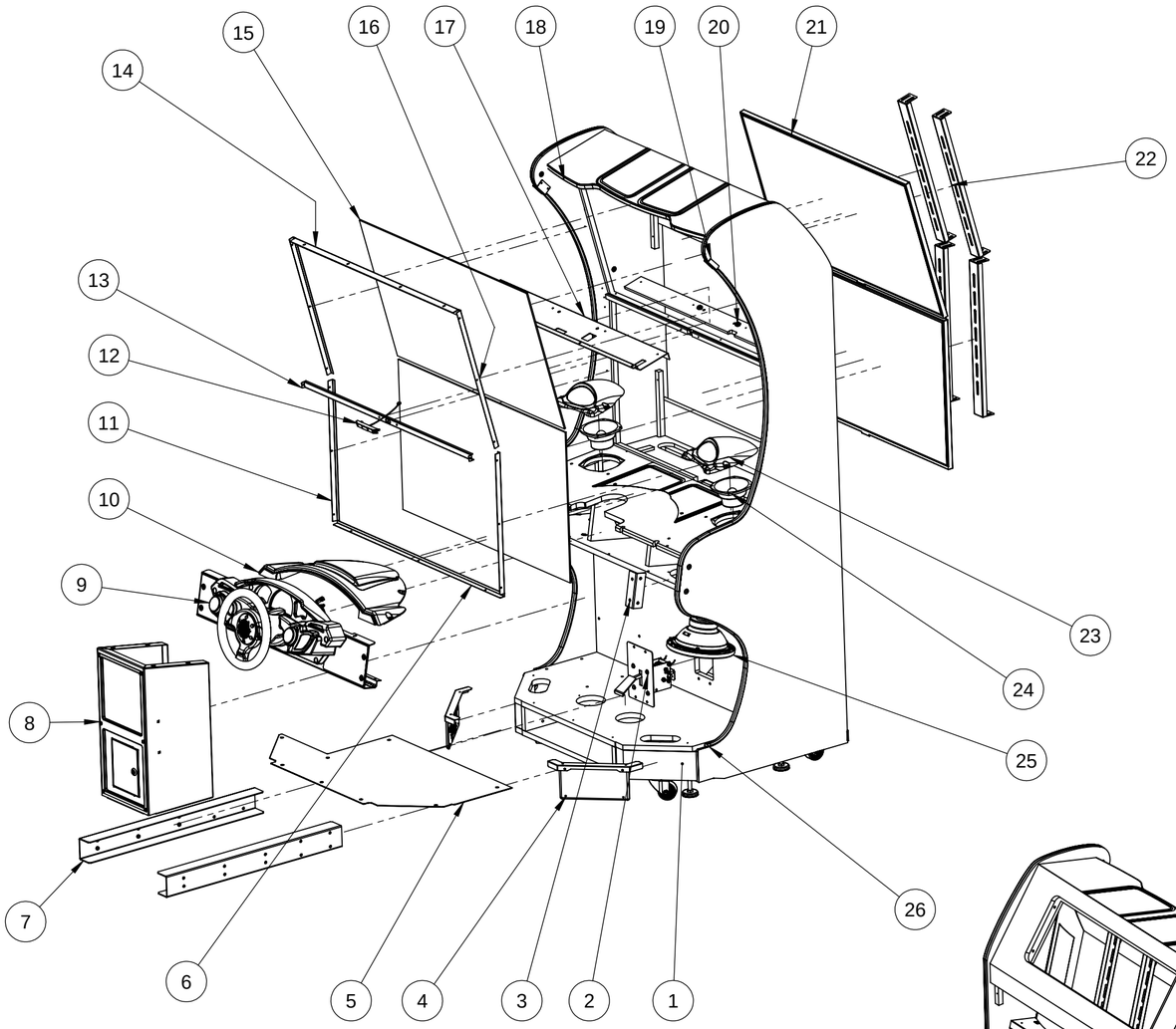
FAST AND FURIOUS 43" DOUBLE GAME SETUP

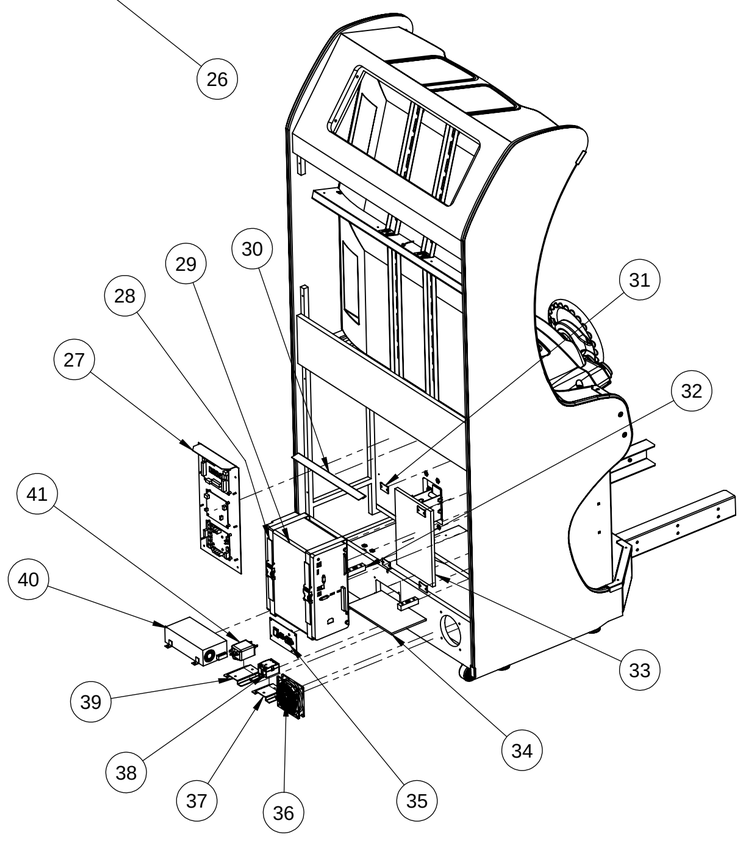
1) REMOVE LOWER REAR DOORS.
2) REMOVE UPPER REAR DOORS.
3) UNPACK DOUBLE GAME MARQUEE AND USE SUPPLIED HARDWARE

PIERCE THE TOP STRIPE DECAL TO ACCESS HIDDEN HOLES.
4) RUN POWER CABLES THROUGH RESPECTIVE HOLES IN EACH CABINET TOP AND CONNECT SEPERATELY INSIDE THE RIGHT AND LEFT CABINETS TO THE MATING CONNECTORS.
5) INSTALL DECORATIVE SIDE ARCHES TO THE LEFT AND RIGHT OUTER CABINET WALLS USING FIVE SCREWS, LOCK AND FLAT WASHERS PROVIDED.
5) ALIGN GAMES NEXT TO EACH OTHER IN DESIRED LOCATION AND SET LEG LEVELERS IN THE DOWN POSITION.
6) RETURN THE REAR DOORS TO THEIR OPERATING POSITION.
7) PLUG IN AC CORDS FROM BACK OF EACH GAME AND POWER ON.



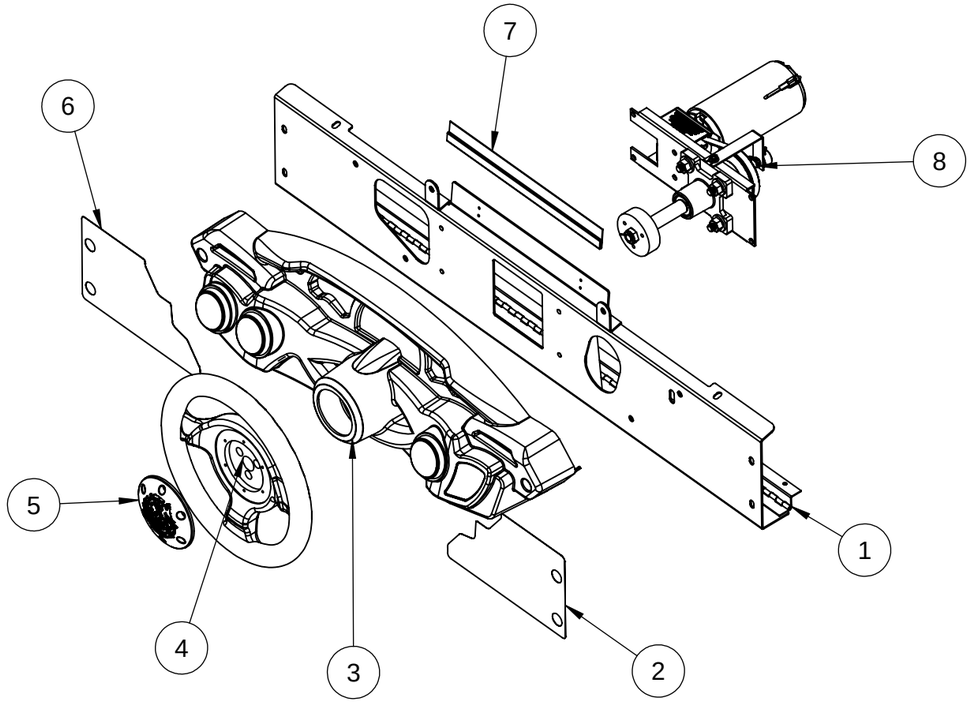
FAST AND FURIOUS 43"
MAIN CABINET ASSEMBLY





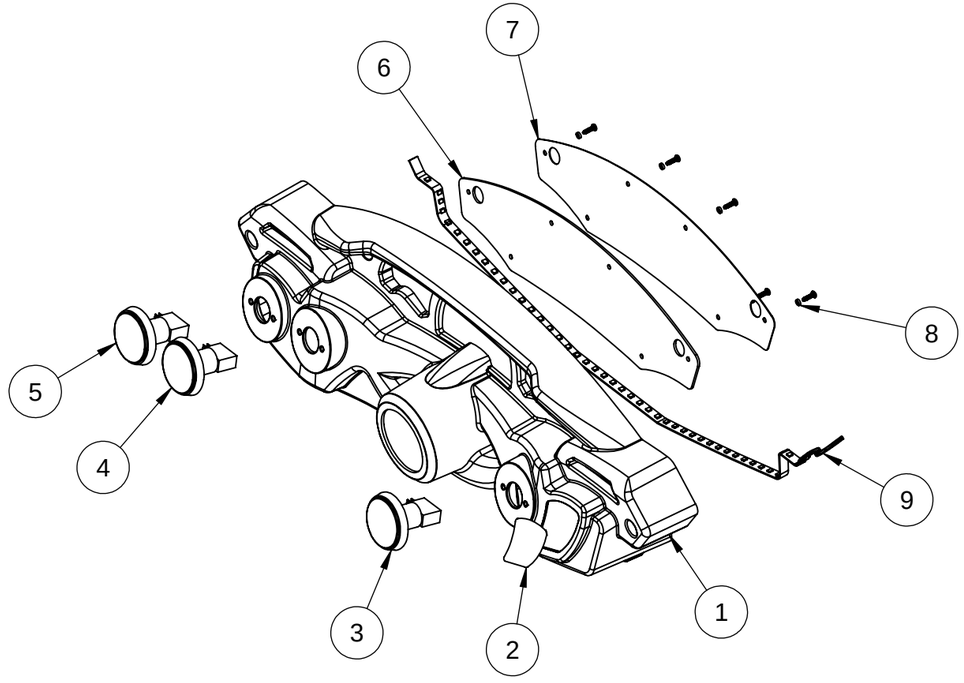
ITEM NO.	PART NUMBER	Description	MATL PROP	QTY.
1	601-01012-01	F&F43 - Main Cabinet	N-Q	1
2	604-00052-01	Gas Pedal Assy	N-S	1
3	600-01788-01	Cruis'n Dash Mounting Bracket (2)	N-S	2
4	Kick Plate Assy	Sheetmetal Bracket/Acrylic Panel	N-S/ P-C	2
5	600-03256-01	F&F 43-Main Cab Tread plate	N-U	1
6	600-03261-01	F&F43- Main Cab Monitor Cross Glass Brack Lower	N-S	1
7	600-01777-01	Cruis'n Pedestal Strut (2) req'd	N-T	2
8	FnF43 Vault Assy	FnF43 Vault Assy	N-S	1
9	F&F 43-Dash-Assy	F&F 43-Dash-Assy (See Exploded)	-	1
10	603-00778-01	Cruis'n-Hood-InjMolded	P-J	1
11	600-03259-01	F&F43- Main cab Glass Bracket - Lower	N-S	2
12	Camera-Housing-Assy	Moto-GP Camera Assembly(see exploded)	P-J	1
13	600-03263-01	F&F43- Main Cab Monitor Cross Glass Mid	N-S	1
14	600-03262-01	F&F43- Main Cab Monitor Cross Glass Upper	N-S	1
15	600-03267-01	F&F43- Tempered Monitor Glass (2)	N-X	2
16	600-03260-01	F&F43- Main cab Glass Bracket - Upper	N-S	2
17	600-03258-01	F&F43- Universal Monitor Mount Cross Bracket	N-S	1
18	Top Chrome Tmolding		P-F	1
19	600-03093-01	F&F LED Wide Bracket Main Cab (2)	N-S	2
20	1_4-20 x5-Flat Assy		-	10
21	809-00025-01	Samsung BE43T-H BET-H Pro TV Series - 43"	-	2
22	600-03264-01	F&F43- Monitor Mounting Strut	N-T	4
23	603-01111-01-ASSY		P-J	2
24	2-1-10-00-00-000	5.25 Full Range Speaker, 8 ohm	-	2
25	SB3-8inWoofer-Assy	SUPERBIKES 3-8inWoofer-Assy	P-J/ N-S	1
26	603-00718-90	LED TMOLDING 90"	P-F	2
27	F&F 43_RIO2-HARDWARE-ASSY	F&F 43_RIO2-HARDWARE-ASSY	N-T	1
28	PC-Strap Assy	PC-Strap Assy.SLDASM	P-AH	2
29	LenovoM70t		-	1
30	LED-EXTRUSION-ASSY-13in	LED-EXTRUSION-ASSY-(13" Long)	P-S	1
31	600-00891-01	Securing Nylon Strap Plate	N-T	4
32	601-00580-01	PC Wood Cleat	N-O	2
33	Foam Pad		P-AL	1
34	Foam Pad-SML		P-AL	1
35	Moto-GP_A-C Plate Assy	Moto-GP_A-C Plate Assembly	N-T	1
36	FanAssy	DC fan and wire guard assembly	N-Y	1
37	600-03119-01	Solid State Relay Bracket	N-T	1
38	800-00079-01	6210AXXSZS-DC3 / 6210DSX-1: Solid State Relay	-	1
39	600-03206-01	Power Line Filter Bracket (Small)	N-T	1
40	330-00003-01	HRP-600-12: 600W, 12V Dual Voltage Power Supply	-	1
41	442-00001-01	Power Line Filter (Corcom 6MV1)	-	1
42	R1-1051	F&F43 - Bracket- T-Molding (2)		2
43	606-02212-01	F&F43- Roof Vinyl Decal		1
44	606-02211-01	F&F43- Hood Vinyl Decal		1

FAST AND FURIOUS 43"
CONTROL PANEL ASSEMBLY



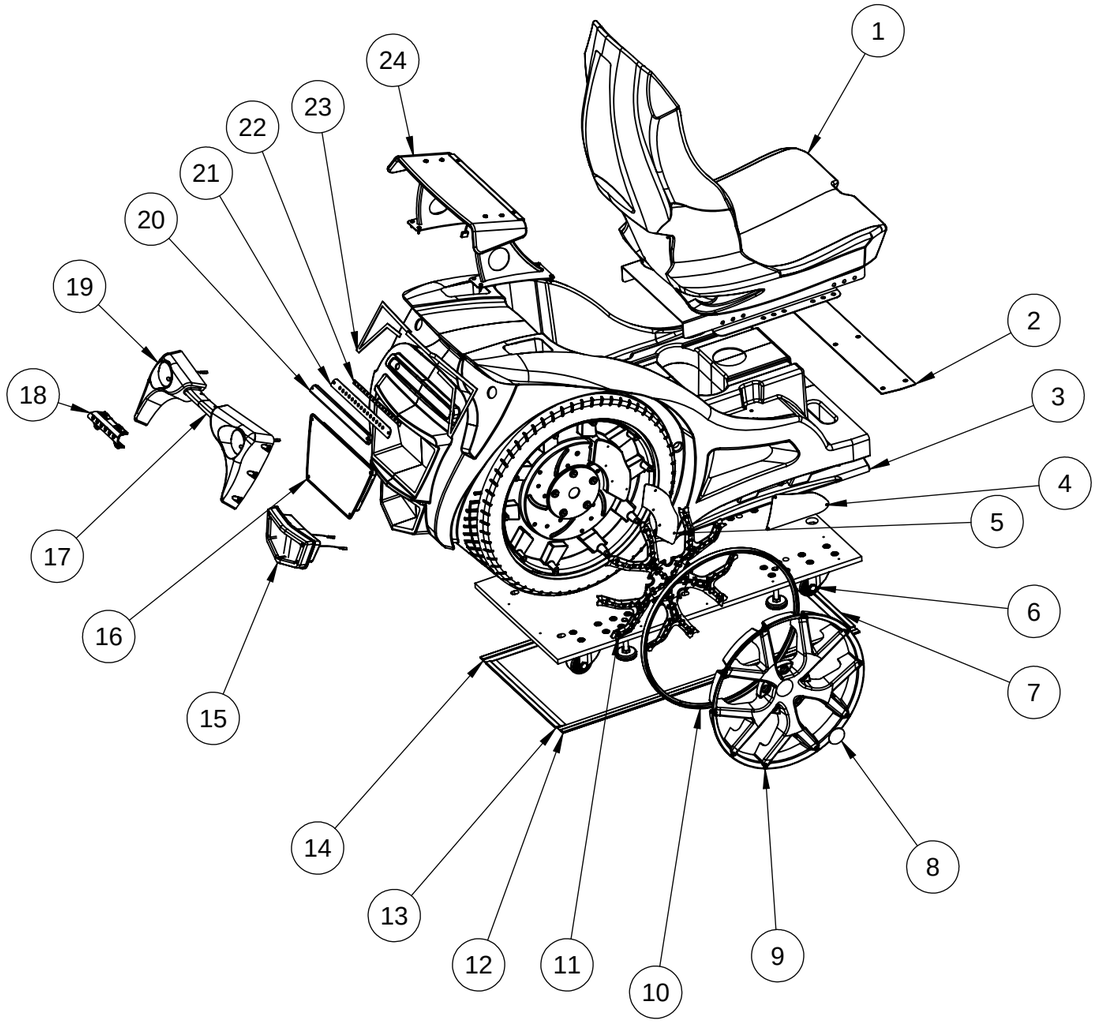
ITEM NO.	PART NUMBER	Description	MATL PROP	QTY.
1	600-03255-01	F&F 43 CONTROL PANEL	N-S	1
2	606-02172-01	F&F43- Dash Vinyl Decal-R	-	1
3	Dash-Shell-Assembly	Dash-Shell-Assembly(see exploded)	-	1
4	2-1-03-00-00-001	Happ Steering Wheel	P-J	1
5	603-00789-01	Cruis'n Steering Wheel Cap	P-J	1
6	606-02173-01	F&F43- Dash Vinyl Decal-L	-	1
7	LED-EXTRUSION-ASSY-12in	LED-EXTRUSION-ASSY-12in	P-S	1
8	604-00002-00	HAPP-FFB-STEERING-ASSY	-	1

FAST AND FURIOUS 43"
DASH ASSEMBLY



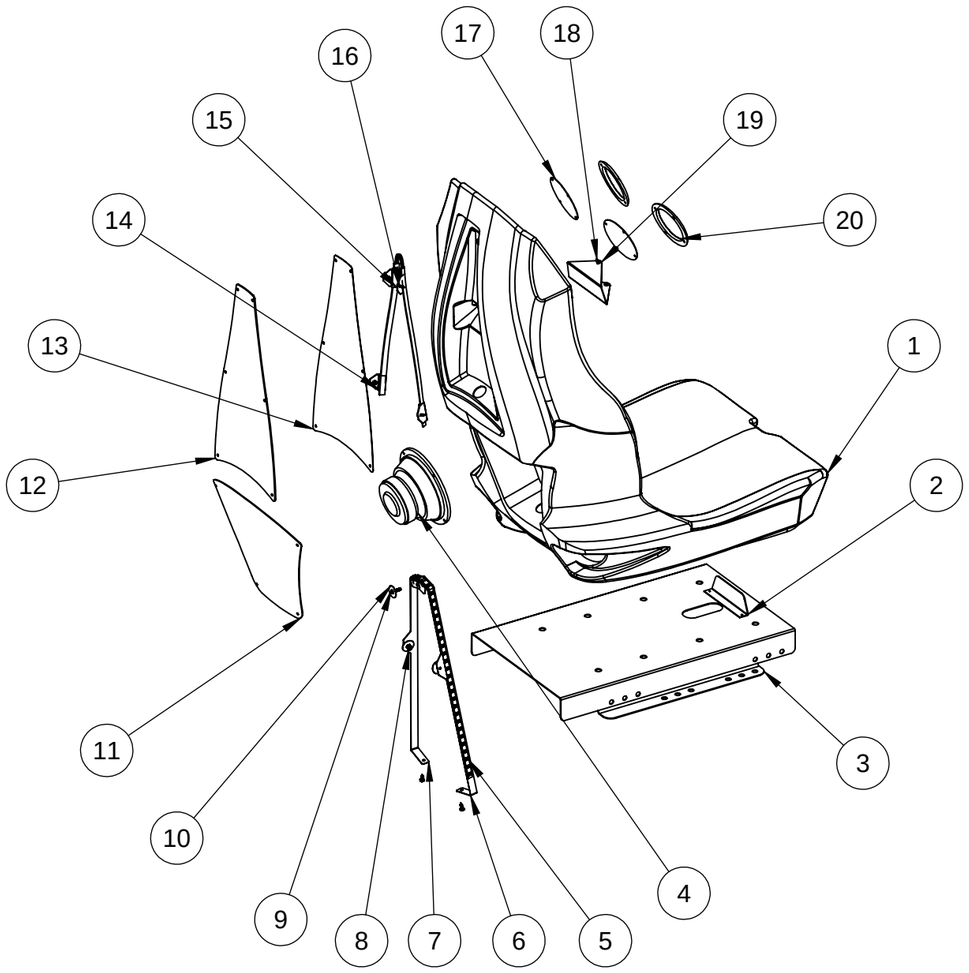
ITEM NO.	PART NUMBER	Description	MATL PROP	QTY.
1	603-00770-01	Cruis'n-Dash-InjMolded	P-K	1
2	606-01998-01	F&F- Dash Right Decal-VINYL	-	1
3	702-00066-01	ROUND-START BUTTON-GREEN	P-J	1
4	702-00067-01	ROUND-VIEW BUTTON-BLUE	P-J	1
5	702-00068-01	ROUND-TUNES BUTTON-ORG	P-J	1
6	600-01843-01	Cruis'n-Dash Inst Panel-Clear overlay	P-R	1
7	606-02053-01	F&F Instrument Panel-White Styrene 30 mil	P-E	1
8	6-32 SCREW	6-32 PlasticScrew&NeopreneWasher	-	6
9	Dash LED Strip-75CM (CA-4944)	Dash LED Strip-75CM wht w foam tape	-	1

FAST AND FURIOUS 43
PEDESTAL ASSEMBLY



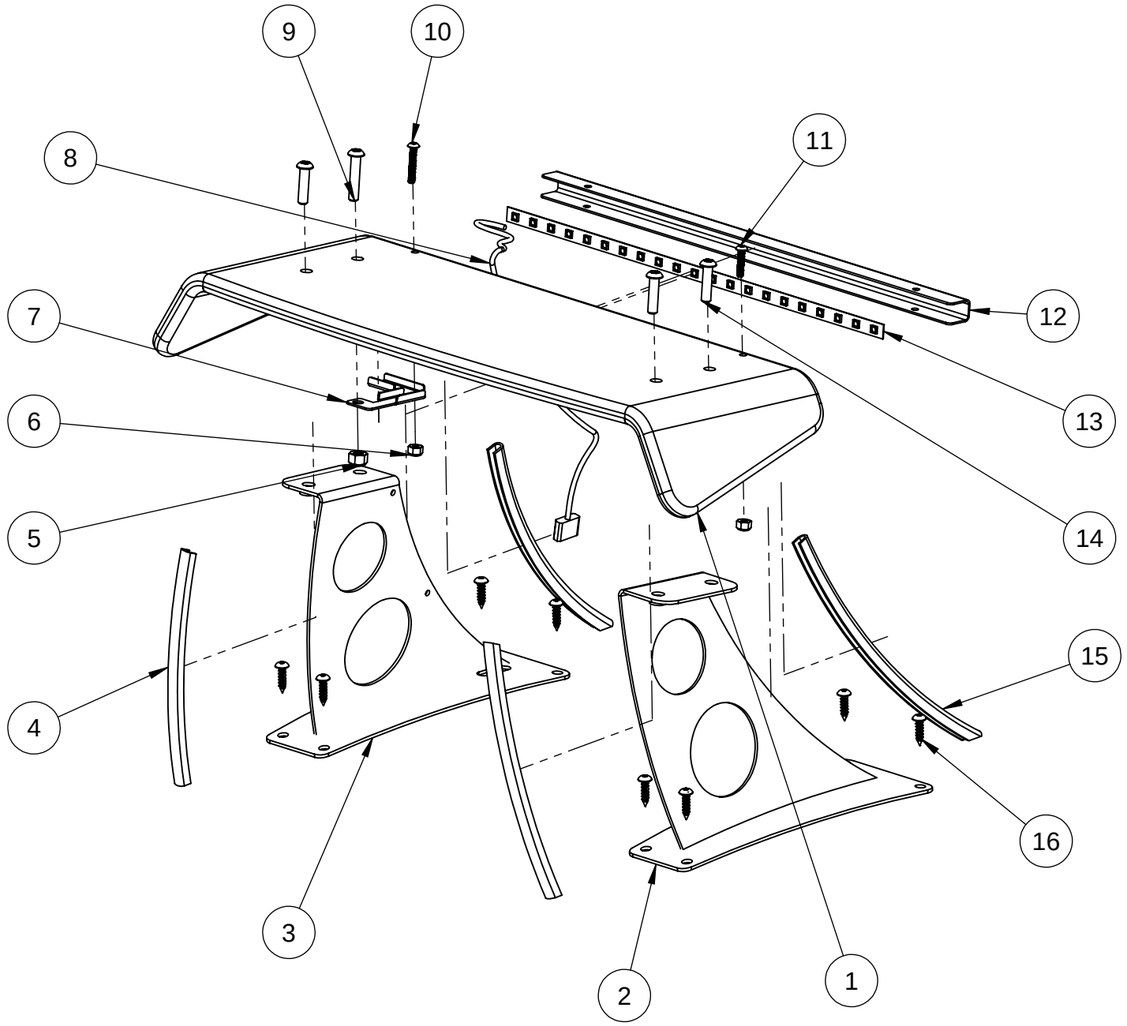
ITEM NO.	PART NUMBER	Description	MATL PROP	QTY.
1	F&F Base SeatAssy	F&F Base SeatAssy (See Details)	-	1
2	600-01876-01	Cruis'n-Pedestal Tread Plate	N-U	1
3	603-00774-01	CRUIS'N SEAT PEDESTAL	P-M	1
4	600-01885-01	Cruis'n-Pedestal Side Grill (2) req'd	N-T	2
5	606-01206-01	Cruis'n-Brake Caliper (2) Req'd	P-R	2
6	F&F43-Pedestal Caster Panel Assy	F&F43-Pedestal Caster Panel Assy	N-O	1
7	603-00762-13IN	LED Extrusion 13 inches	P-S	1
8	606-01214-01	Cruis'n - Rnd Wheel Emblem (2)	-	2
9	603-00769-01	Cruis'n - Wheel / Chrome (2) req'd	P-K	2
10	WHEEL-LED T-MOLDING-ASSY	WHEEL-ROB -LED T-MOLDING-ASSY	P-F	2
11	Wheel LED Assy	F&F Wheel LED Assembly	P-K	2
12	LED-EXTRUSION-ASSY-70cm_28in-M	Under Cab RGB Lighting	P-S	1
13	LED-EXTRUSION-ASSY-40cm	LED-EXTRUSION-ASSY-40cm (16in) Long	P-S	1
14	LED-EXTRUSION-ASSY-70cm_28in	Under Cab RGB Lighting	P-S	1
15	Cruis'n Tail Pipe-Assy	Cruis'n Tail Pipe-Assy (see exploded)	P-K	1
16	F&F License-Plate-Assy	F&F License-Plate-Assy (see exploded)	P-K	1
17	RearTailLightAssy-R	RearTailLightAssy-R	P-K	1
18	603-00803-01	Cruis'n - Center Tail light Cover (IM)	P-K	1
19	RearTailLightAssy-L	RearTailLightAssy-L	P-K	1
20	600-01882-01	Cruis'n-Ped Horizontal Light Overlay	P-C	1
21	600-01881-01	Cruis'n-Ped Horizontal Light Mask	P-H	1
22	500-00131-10-	Cruis'n - Brakelight RGB LED 10"	-	1
23	500-00162-01-122CM	122CM Tail Light White LED.SLDPRT	-	1
24	F&F Spoiler Assy -REVISED	F&F Spoiler Assy - REVISED	-	1

FAST AND FURIOUS 43
SEAT ASSEMBLY



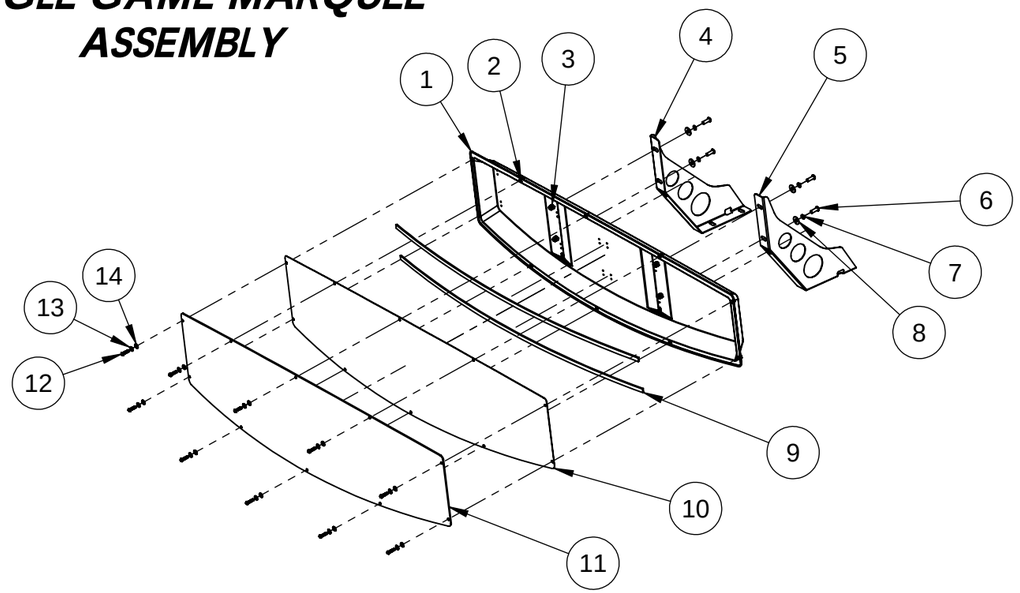
ITEM NO.	PART NUMBER	Description	MATL PROP	QTY.
1	603-01080-01	F&F ROTO MOLDED SEAT-(Red, Orng, Grn, Yel)	P-M	1
2	600-01785-01-B	ACCESS BLOCKOUT BRACKET	N-S	1
3	600-01785-01	Cruis'n Seat Mounting Bracket	N-S	1
4	2-1-11-00-00-000	SPEAKER-WOOFER-6.5" 4 OHm	-	1
5	500-00162-50	29.5" 75CM LED Strip White (w foam tape)	-	2
6	600-03058-01	F&F Seat LED Mounting Bracket R	N-T	1
7	600-03057-01	F&F Seat LED Mounting Bracket L	N-T	1
8	90631A009	90631A009_LOW-STRENGTH STEEL NYLON-INSERT LOCKNUT	-	2
9	96075A143	96075A143_ TORX BUTTON SOCKET CAP SCREW	-	1
10	#8 FLAT WASHER LRG	#10 FLAT WASHER	-	3
11	600-00106-01-	WOOFER-GRILL	N-S	1
12	600-01840-01	Cruis'n Seatback Clear Overlay	P-Al	1
13	606-01999-01	F&F- Seatback Translight	P-E	1
14	500-00162-01-70CM	WHITE LED STRIP-SEAT ILLUMINATION	-	1
15	603-00762-01-2	LED Extrusion (Standard Use)	P-S	4
16	90054A148	90054A148_HEX WASHER HEAD SCREW FOR SHEET METAL	-	6
17	600-00105-01	SEAT-HEADREST-SPEAKER-GRILL	N-S	2
18	90925A196	90925A196_PAN HEAD TORX DRIVE SCREW FOR SHEET METAL	-	2
19	600-03084-01	F&F Seat Blockout Plate	N-S	1
20	807-00014-00	3 1/2" Speaker Grille	N-S/ P-J	2

FAST AND FURIOUS 43
REAR SPOILER ASSEMBLY



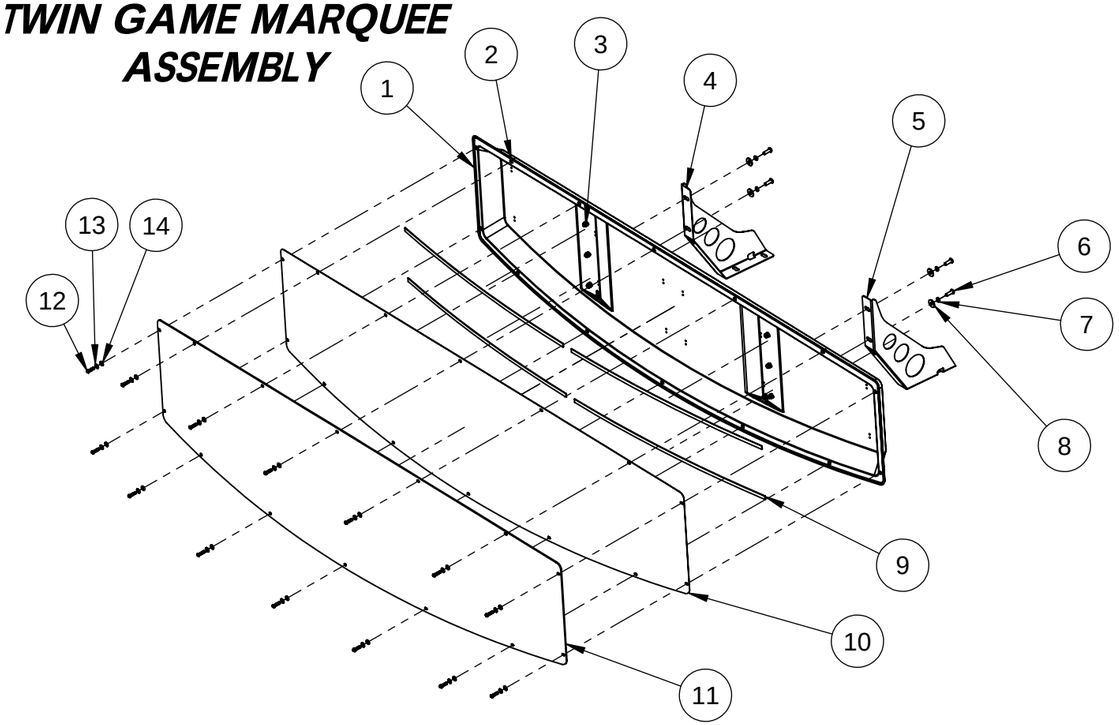
ITEM NO.	PART NUMBER	Description	MATL PROP	QTY.
1	600-03266-01	F&F43-Smaller Rear Spolier (1/2"Clear Acrylic w Bends)	P-C	1
2	600-02890-01	F&F Rear Spolier Bracket R	N-S	1
3	600-02891-01	F&F Rear Spolier Bracket L	N-S	1
4	Back Edge Molding-Spoiler Support	Back Edge Molding-Spoiler Support	P-F	2
5	90640A129	90640A129_LOW-STRENGTH STEEL NYLON-INSERT LOCKNUT	-	1
6	90631A009	90631A009_LOW-STRENGTH STEEL NYLON-INSERT LOCKNUT	-	2
7	600-03278-01	F&F43- SPOILER CABLE COVER	N-S	1
8	Spoiler Cable-Shorty		-	1
9	TORX1-4-20_1-1_4 in	TAMPER RESIST 1/4-20 X 1.25 INCH L	-	1
10	96075A147	#8-32x1in Tamper Torx	-	1
11	96075A143	96075A143_ TORX BUTTON SOCKET CAP SCREW	-	1
12	600-03265-01	F&F43- Rear Spoiler LED Edge Bracket	N-S	1
13	500-00184-35	RGB 14in LED Strip w Foam	-	1
14	TORX1-4-20_1 in	TAMPER RESIST 1/4-20 X 1 INCH L	-	3
15	Front Edge Molding-Spoiler Support	Front Edge Molding-Spoiler Support	P-F	2
16	95638A245	#10 X 3/4Tamper-Resistant Torx Rounded Head Screws	-	8

FAST AND FURIOUS 43
SINGLE GAME MARQUEE
ASSEMBLY



ITEM NO.	PART NUMBER	Description	MATL PROP	QTY.
1	603-01112-01	F&F 43 Marquee Pan Single Unit (Vac Formed)	P-AD	1
2	92105A002	Zinc Alloy Tapping Inserts for Softwood	-	10
3	92105A100	92105A100_TAPPING INSERTS	-	4
4	600-03268-01	F&F43-Marquee Bracket L	N-S	1
5	600-03269-01	F&F 43-Marquee Bracket R	N-S	1
6	TORX1-4-20x3_4 in		-	4
7	1_4 LOCK WASHER		-	4
8	1_4 FLAT_WASHER	1/4"ID X 5/8" OD FLAT_WASHER	-	4
9	500-00162-90	90CM LED Strip White (w foam tape)	-	2
10	606-02174-01	F&F43- Single Unit Mini Marquee 30 mil Translight	P-E	1
11	600-03271-01	F&F43- Marquee MINI Single Unit Clear Overlay 1/8" LENS	P-A	1
12	96075A143	96075A143_ TORX BUTTON SOCKET CAP SCREW	-	10
13	#8 FLAT WASHER	#10 FLAT WASHER	-	10
14	99082A140	Abrasion-Resistant Sealing Washer	-	10

FAST AND FURIOUS 43
TWIN GAME MARQUEE
ASSEMBLY



ITEM NO.	PART NUMBER	Description	MATL PROP	QTY.
1	603-01110-01	F&F 43 Marquee Pan (Vac Formed)	P-AD	1
2	92105A002	Zinc Alloy Tapping Inserts for Softwood	-	14
3	92105A100	92105A100_TAPPING INSERTS	-	6
4	600-03268-01	F&F43-Marquee Bracket L	N-S	1
5	600-03269-01	F&F 43-Marquee Bracket R	N-S	1
6	TORX1-4-20x3_4 in		-	4
7	1_4 LOCK WASHER		-	4
8	1_4 FLAT_WASHER	1/4"ID X 5/8" OD FLAT_WASHER	-	4
9	500-00162-60C	Flexible LED Strip 5M roll - White w Foam Tape	-	4
10	606-02169-01	F&F43- Dbl Wide Jr Marquee 30 mil Translight	P-E	1
11	600-03270-01	F&F43- Dbl Wide Jr Marquee Clear 1/8" PETG LENS	P-A	1
12	96075A143	96075A143_ TORX BUTTON SOCKET CAP SCREW	-	14
13	#8 FLAT WASHER	#10 FLAT WASHER	-	14
14	99082A140	Abrasion-Resistant Sealing Washer	-	14

SHEET 1: MAIN UPPER HARNESS + PCBS

811-00345-01

RIO2
[500-00199-05]

P1 — 39-01-2240
- 18W-1007-ORG-PUR #185
- 22W-1007-RED #173
- 22W-1007-RED #125
- 22W-1007-GRN #183
- 22W-1007-GRN-PUR #184
- 18W-1007-BLK-PNK #186
- 18W-1007-BLK-GRY #187
- 18W-1007-BLK-ORG #188
- 22W-1007-BLK #175
- 22W-1007-BLK #123
- 22W-1007-BLK #123

P2
- 12V_F/T
- 5VDC
- 5VDC
- AC_RELAY_HI
- AC_RELAY_LO
- GND
- GND
- GND
- GND
- GND

P4
- TEST — 22W-1061-BLK-BLU #138
- SERVICE — 22W-1061-PUR-WHT #140
- VOLUME UP — 22W-1061-RED-PUR #142
- VOLUME DOWN — 22W-1061-RED-PNK #143
- COIN 1 / P1-UCL:2 — 22W-1061-GRY-PNK #144
- COIN 2 / P2-UCL:2 — 22W-1061-GRY-PUR #145
- DBV! — 22W-1061-GRY-ORG #141
- P1 E-TKT RUN / P1-UCL:8 — 22W-1061-GRN-BLK #148
- P1 E-TKT NOTCH / P1-UCL:6 — 22W-1061-GRN-BLU #147
- START — 22W-1061-PNK-BLK #128
- TUNES — 22W-1061-PNK-PUR #122
- VIEW — 22W-1061-PNK-ORG #126
- STEERING POT — 22W-1061-WHT-YEL #131
- ACCEL HALL — 22W-1061-WHT-RED #174
- CAN - HI — CBL6 RED
- CAN - LO — CBL6 BLK

51353-3800

P7 — 39-01-2220
- COIN METER — 22W-1007-YEL-BRN #139
- START BUTTON LAMP — 22W-1007-YEL-BLK #130
- VIEW BUTTON LAMP — 22W-1007-YEL-ORG #127
- TUNES BUTTON LAMP — 22W-1007-YEL-PUR #124
- DASH - W — 22W-1007-PUR-YEL #133
- SEAT / LICENSE PLATE - W — 18W-1007-BRN-BLK #149
- L&R WHEEL SPOKE 1 - W — 22W-1007-BLU-GRY #150
- L&R WHEEL SPOKE 2 - W — 22W-1007-BLU-BLK #151
- L&R WHEEL SPOKE 3 - W — 22W-1007-RED-GRN #152
- L&R WHEEL SPOKE 4 - W — 22W-1007-RED-ORG #153
- L&R WHEEL SPOKE 5 - W — 22W-1007-BLU-ORG #154

P8 — 39-01-2200
- CENTER BRAKE - W — 22W-1007-PNK-BLU #155
- LR WHEEL RIM - O — 22W-1007-PNK-ORG #156
- L&R WHEEL RIM - G — 22W-1007-PNK-GRN #157
- L&R WHEEL RIM - B — 22W-1007-PNK-BLU #158
- SPOILER / TAIL / UNDER DASH - R — 22W-1007-BLU-RED, #135,#159
- SPOILER / TAIL / UNDER DASH - G — 22W-1007-BLU-GRN, #136,#160
- SPOILER / TAIL / UNDER DASH - B — 22W-1007-BLU-BRN, #137,#161
- TAILPIPE PUCKS — 22W-1007-BLU-PUR #162
- RING LIGHTS — 22W-1007-BLU-WHT #163
- LT MOLDING / EDGE GLOW - R — 22W-1007-PUR-RED #167
- LT MOLDING / EDGE GLOW - G — 22W-1007-PUR-GRN #168
- LT MOLDING / EDGE GLOW - B — 22W-1007-PUR-BLU #169
- RT MOLDING / EDGE GLOW - R — 22W-1007-YEL-RED #164
- RT MOLDING / EDGE GLOW - G — 22W-1007-YEL-GRN #165
- RT MOLDING / EDGE GLOW - B — 22W-1007-YEL-BLU #166
- UNDER PEDESTAL - R — 22W-1007-GRY-RED #170
- UNDER PEDESTAL - G — 22W-1007-GRY-GRN #171
- UNDER PEDESTAL - B — 22W-1007-GRY-BLU #172
- MARQUEE - W — 22W-1007-PUR-BLK #178

P5

USB #406 → TO: SHEET 6, SECTION H15

H-Bridge
[500-00251-01]

- 18W-1007-ORG-GRY #179
- 18W-1007-BLK-ORG #180
- CBL6 RED
- CBL6 BLK

39-01-2060

- 12V_F/T
- GND
- CAN - HI
- CAN - LO

P+ — 3-643817-2 — P- → CBL1-A RED, CBL1-A BLK

RIO2 audio amplifier
[500-00212-03]

- 18W-1007-ORG #181
- 18W-1007-BLK-ORG #182

39-01-2100

- 12VDC
- GND

39-01-2120

- DASH SUBWOOFER +
- SEAT SUBWOOFER +
- LEFT SPEAKER +
- RIGHT SPEAKER +
- SEAT SUBWOOFER -
- DASH SUBWOOFER -
- LEFT SPEAKER -
- RIGHT SPEAKER -

- CBL3-A RED / CBL2-A RED
- CBL4-A RED / CBL4-A BLK
- CBL3-A BLK / CBL2-A BLK
- CBL5-A BLK / CBL4-A BLK

1/8" _ STEREO #322

TO: SHEET 6, SECTION G16

811-00195-01

EARTH GND — CLIP — 18W-1015-GRN-YEL #414

PEDAL
- 5VDC — 22W-1007-RED-BLK #411
- ACCEL HALL — 22W-1007-WHT-BRN #412
- GND — 22W-1007-BLK-RED #413

3-643813-4

22W-1007-BLK-RED #413 / 18W-1015-GRN-YEL #414 / 22W-1007-WHT-BRN #412 / 22W-1007-RED-BLK #411

39-01-2040

22W-1007-BLK #175 / 18W-1007-GRN-YEL, #146,#176 / 22W-1061-WHT-RED #174 / 22W-1007-RED #173

39-01-3043

PCB mounting bracket screw 2-32952-1 — 16W-1007-GRN #415 → FROM: SHEET 2, SECTION I11

PCB mounting bracket screw 2-32952-1 — 16W-1007-GRN #416 → TO: SHEET 4, SECTION C4

TO: SHEET 4, SECTION L5

811-00220-01

AC Relay 25A
- 22W-1007-GRN-PUR #184 — AC_RELAY_LO (53241-2) — AC_L (53242-5) — 18W-1015-BLK #263
- 22W-1007-GRN-RED #183 — AC_RELAY_HI (53241-2) — AC_L (53242-6) — 18W-1015-BLK #262

TO: SHEET 6, SECTION G8

TO: SHEET 2, SECTION D16

811-00349-01

811-00035X-01 — [500-00162-01] WHT LED Strip — Segments: 17HT (12/12)
- 12V_F3
- MARQUEE - W

X = 1 if single marquee, X = 2 if dual marquee

22W-1007-RED #409 / 22W-1007-BLK #410 — 39-01-2020

22W-1007-ORG-BRN #407 / 22W-1007-PUR-BLK #408 — 39-01-3023

18W-1007-ORG-BRN, #132,#177 / 22W-1007-PUR-BLK #178 — 39-01-2020

22W-1007-ORG-BRN #407 / 22W-1007-PUR-BLK #408 — 39-01-3023

Rearranged connectors on Sheet 2	JHM	2023.11.06	B
Initial	JHM	2023.10.17	A
DESCRIPTION	BY	DATE	REV

Designed: JHM | Date: 2023.10.17 | REV: B | Measurements Are In: | ANSI D

Raw Thrills, Inc.
5441 Fargo Ave.
Skokie, IL 60077
USA
rawthrills.com
tel: 847.679.8373
fax: 847.679.8538

TITLE: Fast & Furious 43" System Diagram

DWG

SHEET | SHEETS

SHEET 2: MAIN LOWER HARNESS + DC DISTRIBUTION

811-00348-01

811-00345-01

39-01-2100 — 39-01-3103
18W-1007-ORG #022 — 18W-1007-ORG #181
18W-1007-BLK-ORG #023 — 18W-1007-BLK-ORG #182
18W-1007-ORG-BRN #024 — 18W-1007-ORG-BRN #177
18W-1007-BLK-PNK #025 — 18W-1007-BLK-PNK #186
18W-1007-ORG-GRY #026 — 18W-1007-ORG-GRY #179
18W-1007-BLK-ORG #027 — 18W-1007-BLK-ORG #180
18W-1007-ORG-PUR, #028,#061 — 18W-1007-ORG-PUR, #134,#185
18W-1007-BLK-ORG #029 — 18W-1007-BLK-ORG #187
18W-1007-BLK-ORG #030 — 18W-1007-BLK-ORG #188
18W-1007-GRN-YEL, #031,#056 — 18W-1007-GRN-YEL #176

39-01-2200 — 39-01-2201
22W-1007-BLU-PNK #050 — 22W-1007-BLU-PNK #155
22W-1007-PNK-RED #069 — 22W-1007-PNK-RED #156
22W-1007-PNK-GRN #070 — 22W-1007-PNK-GRN #157
22W-1007-PNK-BLU #071 — 22W-1007-PNK-BLU #158
22W-1007-BLU-RED #073 — 22W-1007-BLU-RED #159
22W-1007-BLU-GRN #074 — 22W-1007-BLU-GRN #160
22W-1007-BLU-BRN #048 — 22W-1007-BLU-BRN #161
22W-1007-BLU-PUR #072 — 22W-1007-BLU-PUR #162
22W-1007-BLU-WHT #049 — 22W-1007-BLU-WHT #163
22W-1007-PUR-RED #037 — 22W-1007-PUR-RED #167
22W-1007-PUR-GRN #038 — 22W-1007-PUR-GRN #168
22W-1007-PUR-BLU #039 — 22W-1007-PUR-BLU #169
22W-1007-YEL-RED #033 — 22W-1007-YEL-RED #164
22W-1007-YEL-GRN #034 — 22W-1007-YEL-GRN #165
22W-1007-YEL-BLU #035 — 22W-1007-YEL-BLU #166
22W-1007-GRY-RED #062 — 22W-1007-GRY-RED #170
22W-1007-GRY-GRN #063 — 22W-1007-GRY-GRN #171
22W-1007-GRY-BLU #064 — 22W-1007-GRY-BLU #172

39-01-2020 — 39-01-3023
CBL2-B RED — CBL2-A RED
CBL2-B BLK — CBL2-A BLK

39-01-2060 — 39-01-3063
18W-1007-BRN-BLK #068 — 18W-1007-BRN-BLK #149
22W-1007-BLU-GRY #051 — 22W-1007-BLU-GRY #150
22W-1007-BLU-BLK #052 — 22W-1007-BLU-BLK #151
22W-1007-RED-GRN #053 — 22W-1007-RED-GRN #152
22W-1007-RED-ORG #054 — 22W-1007-RED-ORG #153
22W-1007-BLU-ORG #055 — 22W-1007-BLU-ORG #154

TO: SHEET 3, SECTION G20

FROM: SHEET 1, SECTION C19

[500-00131-01] RGB LED Strip — 810-00491-01
Segments: 45
12V_F2 (+)
RT T-MOLDING / EDGE GLOW - R
RT T-MOLDING / EDGE GLOW - G
RT T-MOLDING / EDGE GLOW - B
22W-1007-WHT #366 — 18W-1007-ORG-BLU #032
22W-1007-RED #367 — 22W-1007-YEL-RED, #041,#033
22W-1007-GRN #368 — 22W-1007-YEL-GRN, #042,#034
22W-1007-BLU #369 — 22W-1007-YEL-BLU, #043,#035
03-06-2042 — 03-06-1042

[500-00184-01] RGB LED Strip — 811-00071-01
Segments: 4
12V_F2 (+)
RT T-MOLDING / EDGE GLOW - R
RT T-MOLDING / EDGE GLOW - G
RT T-MOLDING / EDGE GLOW - B
22W-1007-WHT #374 — 18W-1007-ORG-BLU #040
22W-1007-RED #375 — 22W-1007-YEL-RED #041
22W-1007-GRN #376 — 22W-1007-YEL-GRN #042
22W-1007-BLU #377 — 22W-1007-YEL-BLU #043
03-06-2042 — 03-06-1042

12VDC FAN
12V_F2 (+) — GND (-)
22W-1007-RED #382
22W-1007-BLK #383

810-00046-01

22W-1007-RED #382
22W-1007-BLK #383
03-09-1022
18W-1007-ORG-BLU, #075,#040
18W-1007-BLK-PNK, #076,#025
03-09-2022

TO: SHEET 1, SECTION B16

PSU mounting bracket screw — 2-32902-1
16W-1007-GRN #415
18W-1007-GRN-YEL, #031

811-00105-01

39-01-3103 — 39-01-2100
18W-1007-ORG, #082,#022 — 18W-1007-ORG #384
18W-1007-ORG, #077,#083 — 18W-1007-ORG #385
18W-1007-ORG, #078,#079 — 18W-1007-ORG #386
18W-1007-ORG #080 — 18W-1007-ORG #387
18W-1007-ORG #081 — 18W-1007-ORG #388
18W-1007-BLK-PNK #076 — 18W-1007-BLK #389
18W-1007-BLK-ORG #023 — 18W-1007-BLK #390
18W-1007-BLK-ORG #027 — 18W-1007-BLK #391
18W-1007-BLK-ORG #029 — 18W-1007-BLK #392
18W-1007-BLK-ORG #030 — 18W-1007-BLK #393

811-00220-01

TO: SHEET 6, SECTION E3
19-09-1039 — 19-09-2039
18W-1015-BLK #257 — 18W-1007-BLK #251
18W-1015-WHT #258 — 18W-1007-WHT #252
18W-1015-GRN #259 — 18W-1007-GRN #253

810-00304-01

450W 12VDC PSU MEANWELL HRP-450-12
AC_L — AC_N — AC_EARTH
+12VDC — 12VDC — 12VDC — GND — GND — GND

810-00491-01

[500-00131-01] RGB LED Strip
Segments: 45
12V_F2 (+)
LT T-MOLDING / EDGE GLOW - R
LT T-MOLDING / EDGE GLOW - G
LT T-MOLDING / EDGE GLOW - B
22W-1007-WHT #370
22W-1007-RED #371
22W-1007-GRN #372
22W-1007-BLU #373
03-06-2042
16W-1007-ORG-BLK #036
22W-1007-PUR-RED, #045
22W-1007-PUR-GRN, #046
22W-1007-PUR-BLU, #047
03-06-1042

811-00071-01

[500-00184-01] RGB LED Strip
Segments: 4
12V_F2 (+)
LT T-MOLDING / EDGE GLOW - R
LT T-MOLDING / EDGE GLOW - G
LT T-MOLDING / EDGE GLOW - B
22W-1007-WHT #378
22W-1007-RED #379
22W-1007-GRN #380
22W-1007-BLU #381
03-06-2042
16W-1007-ORG-BLK #044
22W-1007-PUR-RED #045
22W-1007-PUR-GRN #046
22W-1007-PUR-BLU #047
03-06-1042

810-00105-01

18W-1007-ORG #384
18W-1007-ORG #385
18W-1007-ORG #386
18W-1007-ORG #387
18W-1007-ORG #388
18W-1007-BLK #389
18W-1007-BLK #390
18W-1007-BLK #391
18W-1007-BLK #392
18W-1007-BLK #393

1 — 18W-1007-ORG-BLK, #036,#044 — 3-520150-2 — 12V_F1 — 8A/250V,3AG,FAST 0312008.MXP — 2-520181-2 — 18W-1007-ORG #092
2 — 18W-1007-ORG-BLU, #075,#032 — 3-520150-2 — 12V_F2 — 8A/250V,3AG,FAST 0312008.MXP — 2-520181-2 — 18W-1007-ORG #083
3 — 18W-1007-ORG-BRN #024 — 2-520181-2 — 12V_F3 — 8A/250V,3AG,FAST 0312008.MXP — 2-520181-2 — 18W-1007-ORG #077
4 — 18W-1007-ORG-GRN #058 — 2-520181-2 — 12V_F4 — 8A/250V,3AG,FAST 0312008.MXP — 2-520181-2 — 18W-1007-ORG #078
5 — 18W-1007-ORG-GRY, #057,#026 — 3-520150-2 — 12V_F5 — 8A/250V,3AG,FAST 0312008.MXP — 2-520181-2 — 18W-1007-ORG #079
6 — 18W-1007-ORG-PNK #059 — 2-520181-2 — 12V_F6 — 8A/250V,3AG,FAST 0312008.MXP — 2-520181-2 — 18W-1007-ORG #080
7 — 18W-1007-ORG-PUR #028 — 2-520181-2 — 12V_F7 — 8A/250V,3AG,FAST 0312008.MXP — 2-520181-2 — 18W-1007-ORG #081

			F
			E
			D
			C
Rearranged connectors on Sheet 2	JHM	2023.11.06	B
Initial	JHM	2023.10.17	A
DESCRIPTION	BY	DATE	REV

Designed: JHM
Date: 2023.10.17
REV B

Raw Thrills, Inc.
5441 Fargo Ave.
Skokie, IL 60077
USA
rawthrills.com
tel: 847.679.8373
fax: 847.679.8538

Measurements Are In: ANSI D

TITLE: Fast & Furious 43" System Diagram

DWG

SHEET — SHEETS

SHEET 3: SEAT CABINET

811-00353-01
[500-00184-01] RGB LED Strip
Segments: 7
12V_F7
SPOILER) TAIL / UNDER DASH - R
SPOILER) TAIL / UNDER DASH - G
SPOILER) TAIL / UNDER DASH - B
22W-1007-WHT #264
22W-1007-RED #265
22W-1007-GRN #266
22W-1007-BLU #267
22W-1007-ORG-PUR #199
22W-1007-BLU-RED #206
22W-1007-BLU-GRN #207
22W-1007-BLU-BRN #208
03-06-2042
03-06-1042

500-00204-01
RED SUPERPUCK
12V_F6
BRAKE PUCKS
22W-1007-RED #290
22W-1007-BLK #291
22W-1007-ORG-PNK, #196,#195
22W-1007-BLU-WHT, #209,#231
03-06-2023
03-06-1023

811-00249-01
[500-00162-01] WHT LED Strip
Segments: 2/3/3/2
12V_F6
CENTER BRAKE - W
22W-1007-RED #288
22W-1007-BLK #289
22W-1007-ORG-PNK. #196,#197
22W-1007-BLU-PNK #232
39-01-2020
39-01-3023

500-00204-01
RED SUPERPUCK
12V_F6
BRAKE PUCKS
22W-1007-RED #292
22W-1007-BLK #293
22W-1007-ORG-PNK #197
22W-1007-BLU-WHT #209
03-06-2023
03-06-1023

811-00231-01
[500-00131-01] RGB LED Strip
Segments: 5
12V_F7
SPOILER (TAIL) UNDER DASH - R
SPOILER (TAIL) UNDER DASH - G
SPOILER (TAIL) UNDER DASH - B
22W-1007-WHT #294
22W-1007-RED #295
22W-1007-GRN #296
22W-1007-BLU #297
22W-1007-ORG-PUR, #198,#199
22W-1007-BLU-RED, #228,#206
22W-1007-BLU-GRN, #229,#207
22W-1007-BLU-BRN, #230,#208
03-06-2042
03-06-1042

811-00223-01
[500-00162-01] WHT LED Strip
Segments: 15
12V_F6
SEAT / LICENSE PLATE) - W
22W-1007-RED #298
22W-1007-BLK #299
22W-1007-ORG-PNK #194
22W-1007-BRN-BLK #220
39-01-2020
39-01-3023

500-00204-01
RED SUPERPUCK
12V_F6
TAILPIPE PUCKS
22W-1007-RED #300
22W-1007-BLK #301
22W-1007-ORG-PNK, #193,#192
22W-1007-BLU-PUR #205
03-06-2023
03-06-1023

500-00204-01
RED SUPERPUCK
12V_F6
TAILPIPE PUCKS
22W-1007-RED #302
22W-1007-BLK #303
22W-1007-ORG-PNK, #193,#194
22W-1007-BLU-PUR, #205,#227
03-06-2023
03-06-1023

810-00483-01
ROBSL LED Strip
Segments: 15
12V_F4
L&R WHEEL RIM - R
L&R WHEEL RIM - O
L&R WHEEL RIM - G
L&R WHEEL RIM - B
22W-1007-WHT #304
22W-1007-RED #305
22W-1007-ORG #306
22W-1007-BLU #307
03-06-2042
03-06-1042

811-00226-01
[500-00162-01] WHT LED Strip
Segments: 2/2/2
12V_F4
L&R WHEEL SPOKE 1 - W
22W-1007-ORG #312
22W-1007-PUR-WHT #317
L&R WHEEL SPOKE 2 - W
22W-1007-ORG #313
22W-1007-PUR-ORG #318
L&R WHEEL SPOKE 3 - W
22W-1007-ORG #314
22W-1007-WHT-PUR #319
L&R WHEEL SPOKE 4 - W
22W-1007-ORG #315
22W-1007-WHT-ORG #320
L&R WHEEL SPOKE 5 - W
22W-1007-ORG #316
22W-1007-WHT-BRN #321
22W-1007-ORG, #312,#313
22W-1007-ORG, #314,#315
22W-1007-PUR-WHT #317
22W-1007-PUR-ORG #318
22W-1007-WHT-PUR #319
22W-1007-WHT-ORG #320
22W-1007-WHT-BRN #321
39-01-2080
18W-1007-ORG-GRN #211,#210
18W-1007-ORG-GRN, #211,#212
22W-1007-BLU-GRY #235,#236
22W-1007-BLU-BLK, #233,#234
22W-1007-BLU-GRY #237,#238
22W-1007-RED-GRN, #239,#240
22W-1007-RED-GRN, #241,#242
39-01-3083

Seat bracket bolt
19070-0027
18W-1007-GRN-YEL #342
CBL2-D RED
CBL2-D BLK
807-00003-00
2-520181-2
SEAT SUBWOOFER +
SEAT SUBWOOFER -
SUBWOOFER

811-00315-01
[500-00093-01] WHT LED Strip
Segments: 7/7
12V_F6
SEAT) LICENSE PLATE - W
18W-1007-ORG-PNK. #336,#337
18W-1007-BRN-BLK, #338,#339
22W-1007-RED #343
22W-1007-BLK #344
39-01-3023
39-01-2020

811-00052-01
[500-00162-01] WHT LED Strip
Segments: 9
12V_F6
SEAT) LICENSE PLATE - W
18W-1007-ORG-PNK. #337,#340
18W-1007-BRN-BLK, #339,#341
22W-1007-RED #345
22W-1007-BLK #346
39-01-3023
39-01-2020

811-00052-01
[500-00162-01] WHT LED Strip
Segments: 9
12V_F6
SEAT) LICENSE PLATE - W
18W-1007-ORG-PNK #340
18W-1007-BRN-BLK #341
22W-1007-RED #347
22W-1007-BLK #348
39-01-3023
39-01-2020

811-00229-01
CBL2-D BLK
18W-1007-GRN-YEL #342
18W-1007-ORG-PNK #336
18W-1007-BRN-BLK #338
CBL2-D RED
39-01-2060
39-01-3063

Unused
22W-1007-ORG-GRY #190
22W-1007-GRY-RED #200
22W-1007-GRY-GRN #201
22W-1007-BRN-BLU #218
03-06-1042

811-00348-01
CBL2-C RED
CBL2-C BLK
CBL2-B RED
CBL2-B BLK
39-01-2080
39-01-3083
22W-1007-ORG-GRY, #189,#190
18W-1007-ORG-GRN, #210,#214
18W-1007-ORG-PNK #191
22W-1007-ORG-PNK, #192,#195
22W-1007-ORG-PUR #198
22W-1007-GRY-RED #200
22W-1007-GRY-GRN #201
22W-1007-GRY-BLU #202
22W-1007-BRN-RED #203
22W-1007-BRN-GRN #204
22W-1007-BRN-BLU #218
22W-1007-BRN-BLK, #219,#220
22W-1007-PNK-RED, #221,#222
22W-1007-PNK-GRN, #223,#224
22W-1007-PNK-BLU, #225,#226
22W-1007-BLU-PUR #227
22W-1007-BLU-RED #228
22W-1007-BLU-GRN #229
18W-1007-ORG-GRY #057
18W-1007-ORG-GRN #058
18W-1007-ORG-PNK. #060,#059
18W-1007-ORG-PNK #060
18W-1007-ORG-PUR #061
22W-1007-GRY-RED, #065,#062
22W-1007-GRY-GRN, #066,#063
22W-1007-GRY-BLU, #067,#064
22W-1007-GRY-RED #065
22W-1007-GRY-GRN #066
22W-1007-GRY-BLU #067
18W-1007-BRN-BLK #068
22W-1007-PNK-RED #069
22W-1007-PNK-GRN #070
22W-1007-PNK-BLU #071
22W-1007-BLU-PUR #072
22W-1007-BLU-RED #073
22W-1007-BLU-GRN #074
39-01-2200
39-01-2201
22W-1007-BLU-BRN #230
22W-1007-BLU-WHT #231
22W-1007-BLU-PNK #232
22W-1007-BLU-BLK #233
22W-1007-BLU-GRY #235
22W-1007-BLU-RED #237
22W-1007-RED-ORG #239
22W-1007-RED-GRN #241
18W-1007-GRN-YEL #243
18W-1007-BRN-BLK #048
22W-1007-BLU-WHT #049
22W-1007-BLU-PNK #050
22W-1007-BLU-GRY #051
22W-1007-BLU-BLK #052
22W-1007-BLU-RED #053
22W-1007-RED-ORG #054
22W-1007-RED-ORG #055
18W-1007-GRN-YEL #056
39-01-2100
39-01-3103
FROM: SHEET 2, SECTION B10

811-00211-01

811-00226-01
[500-00162-01] WHT LED Strip
Segments: 2/2/2
12V_F4
L&R WHEEL SPOKE 2 - W
22W-1007-ORG #326
22W-1007-PUR-WHT #331
L&R WHEEL SPOKE 1 - W
22W-1007-ORG #327
22W-1007-PUR-ORG #332
L&R WHEEL SPOKE 5 - W
22W-1007-ORG #328
22W-1007-WHT-PUR #333
L&R WHEEL SPOKE 4 - W
22W-1007-ORG #329
22W-1007-WHT-ORG #334
L&R WHEEL SPOKE 3 - W
22W-1007-ORG #330
22W-1007-WHT-BRN #335
22W-1007-ORG, #326,#327
22W-1007-ORG, #328,#329
22W-1007-PUR-WHT #331
22W-1007-PUR-ORG #332
22W-1007-WHT-PUR #333
22W-1007-WHT-ORG #334
22W-1007-WHT-BRN #335
39-01-2080
18W-1007-ORG-GRN #217
22W-1007-PNK-RED #222
22W-1007-PNK-GRN #224
22W-1007-PNK-BLU #226
39-01-3083

810-00483-01
ROBSL LED Strip
Segments: 15
12V_F4
L&R WHEEL RIM - R
L&R WHEEL RIM - O
L&R WHEEL RIM - G
L&R WHEEL RIM - B
22W-1007-WHT #308
22W-1007-RED #309
22W-1007-ORG #310
22W-1007-BLU #311
03-06-2042
03-06-1042

811-00350-01
[500-00131-01] RGB LED Strip
Segments: 10/6/10
12V_F6
UNDER PEDESTAL - R
UNDER PEDESTAL - G
UNDER PEDESTAL - B
22W-1007-WHT #349
22W-1007-RED #350
22W-1007-GRN #351
22W-1007-BLU #352
22W-1007-ORG-GRY #189
22W-1007-GRY-RED #200
22W-1007-GRY-GRN #201
22W-1007-GRY-BLU #202
03-06-2042
03-06-1042

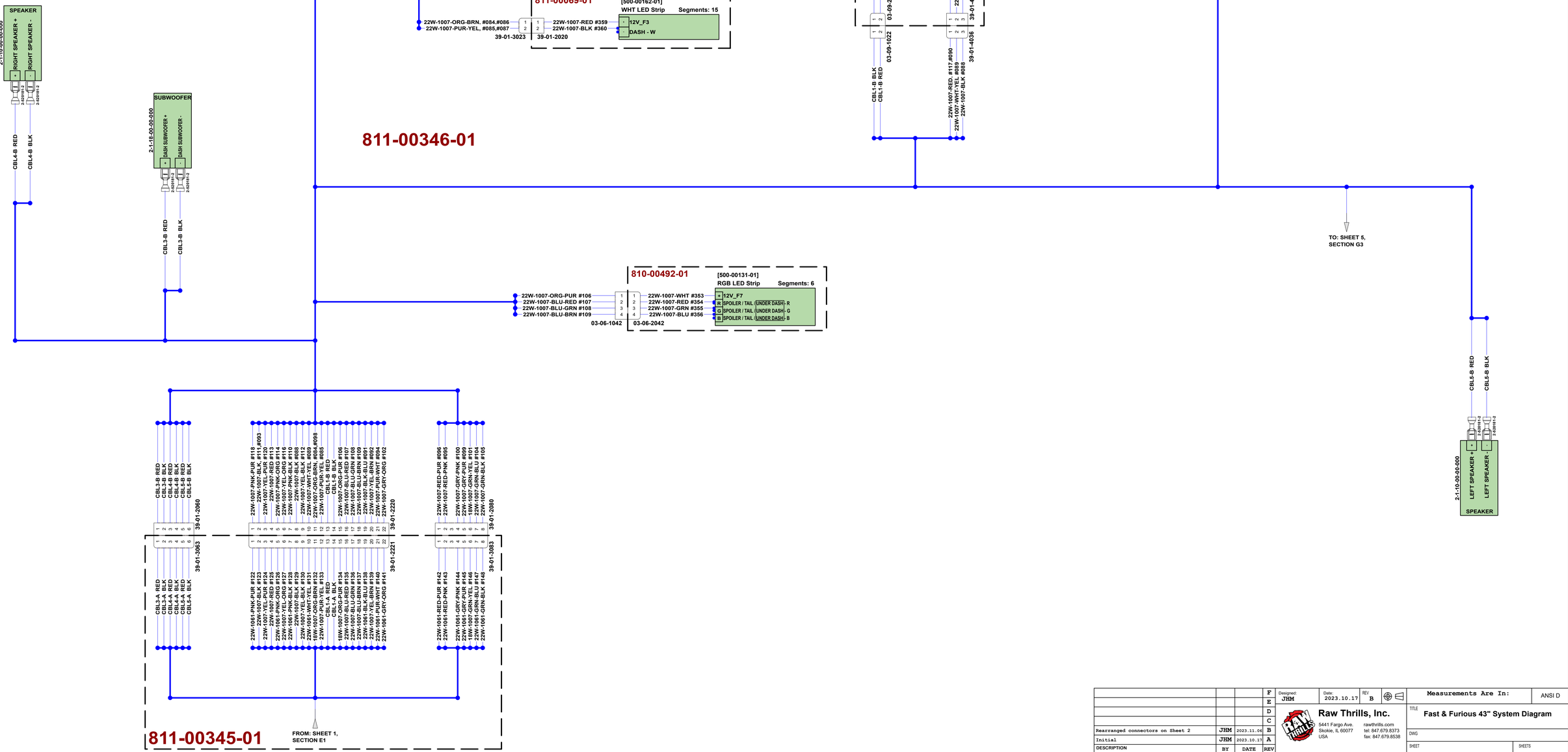
			F
			E
			D
			C
Rearranged connectors on Sheet 2	JHM	2023.11.06	B
Initial	JHM	2023.10.17	A
DESCRIPTION	BY	DATE	REV

Designed: JHM
Date: 2023.10.17
REV B
Measurements Are In: ANSI D

Raw Thrills, Inc.
5441 Fargo Ave.
Skokie, IL 60077
USA
rawthrills.com
tel: 847.679.8373
fax: 847.679.8538

TITLE: Fast & Furious 43" System Diagram
DWG
SHEET
SHEETS

SHEET 4: DASH



DESCRIPTION	REV	DATE	BY
Rearranged connectors on Sheet 2	B	2023.11.06	JHM
Initial	A	2023.10.17	JHM

Designed: JHM | Date: 2023.10.17 | REV: B

Raw Thrills, Inc.
5441 Fargo Ave.
Skokie, IL 60077
USA
rawthrills.com
tel: 847.679.8373
fax: 847.679.8538

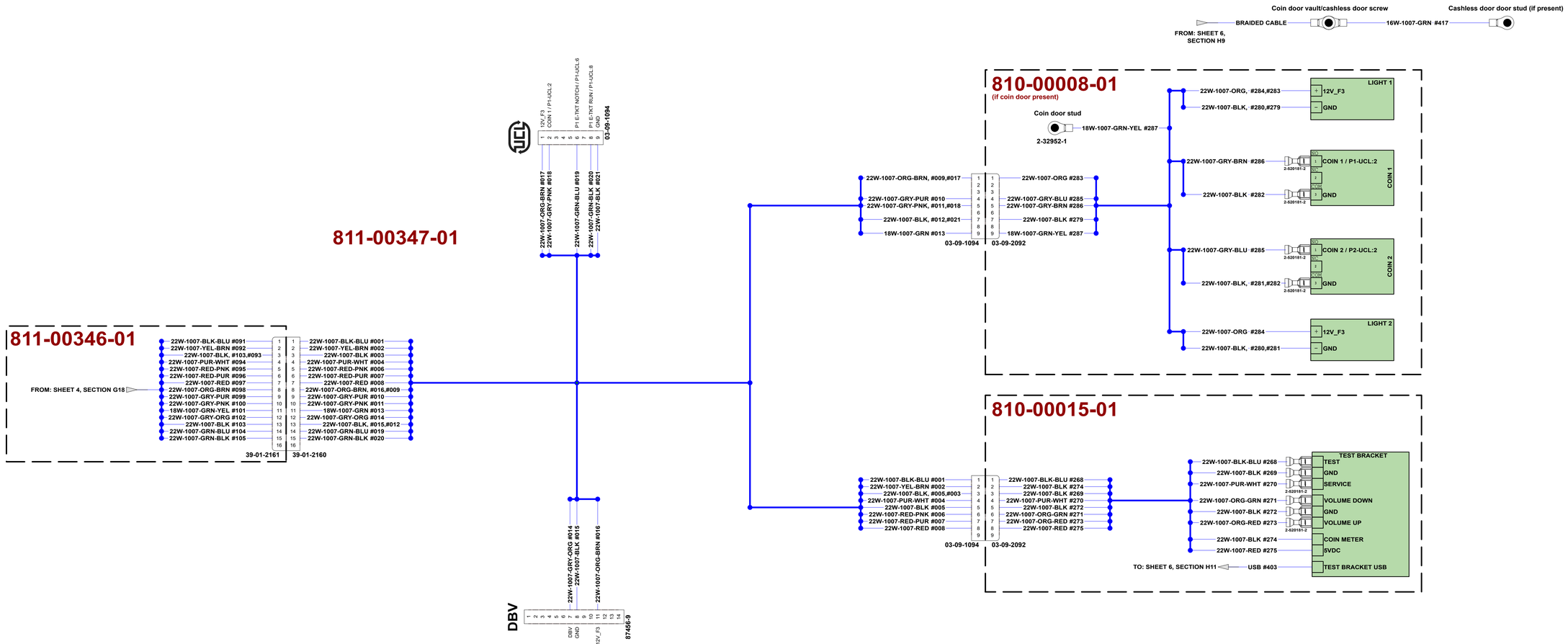
Measurements Are In: ANSI D

TITLE: Fast & Furious 43" System Diagram

DWG

SHEET | SHEETS

SHEET 5: VAULT



DESCRIPTION	BY	DATE	REV
Rearranged connectors on Sheet 2	JHM	2023.11.06	B
Initial	JHM	2023.10.17	A

Designed: JHM
Date: 2023.10.17
REV B

Raw Thrills, Inc.
5441 Fargo Ave.
Skokie, IL 60077
USA
rawthrills.com
tel: 847.679.8373
fax: 847.679.8538

Measurements Are In: ANSI D

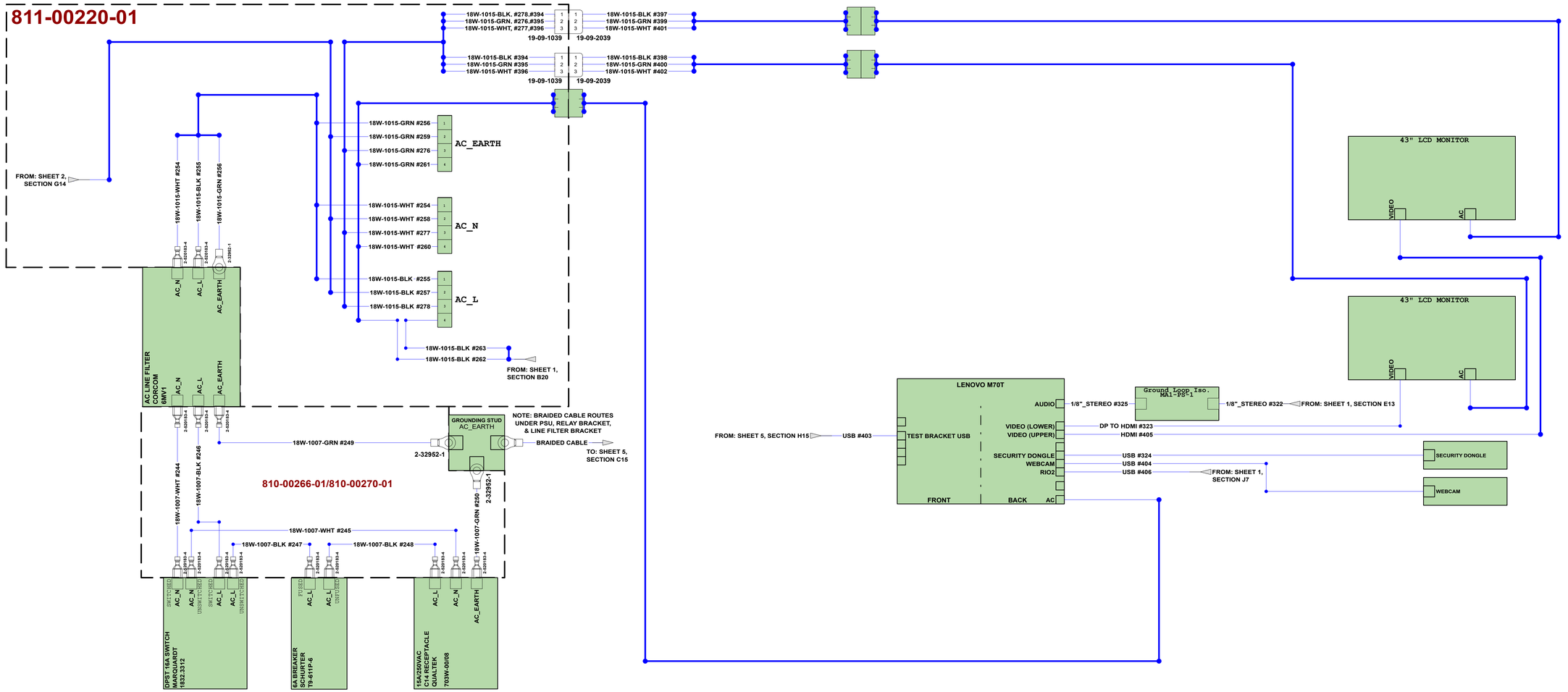
TITLE: Fast & Furious 43" System Diagram

DWG

SHEET

SHEETS

SHEET 6: PC + MONITORS + AC DISTRIBUTION



			F
			E
			D
			C
Rearranged connectors on Sheet 2	JHM	2023.11.06	B
Initial	JHM	2023.10.17	A
DESCRIPTION	BY	DATE	REV

Designed: JHM | Date: 2023.10.17 | REV B

Raw Thrills, Inc.
5441 Fargo Ave.
Skokie, IL 60077
USA
rawthrills.com
tel: 847.679.8373
fax: 847.679.8538

Measurements Are In: ANSI D

TITLE: Fast & Furious 43" System Diagram

DWG

SHEET | SHEETS