

# Injustice Arcade™

## Operator's Manual



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# Injustice Arcade™

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# Injustice Arcade™

## Safety

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### 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.

### Power Selector

Before installing game, ensure the voltage on the PC and power supply is set properly. There is a 115/230 VAC selector switch that must be set for the correct voltage for your site. The setting must match the line voltage at the installation site.

### 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.

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## Surge Suppressor

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

## Water and Other Liquid Sources

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

## Connectors

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

## Computer

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

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

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

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

Do not remove the dongle except for troubleshooting purposes.

## Tempered Glass Warning

When handling the LCD display glass cover take special care and set the glass down softly on a flat surface free of debris. The edge of the glass is sensitive to hard impact. Shattered glass from the monitor can travel long distances and cause bodily injury. Use proper procedures when handling broken materials.

## 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 physical before using video games. While children play video games, a parent should observe. Be alert to the following symptoms: dizziness, altered vision, eye or muscle twitching, involuntary movements, loss of awareness, disorientation or convulsions. If you or your child experiences these symptoms, discontinue use immediately and consult your physician.

## Manual

Keep this manual available and ready for use. Please check our website [www.rawthrills.com](http://www.rawthrills.com) for the latest information regarding this and other Raw Thrills products. If the game fails to function properly, turn off the machine and unplug the AC line cord. Contact your local distributor. Your warranty, when applicable, lasts 60 days from your purchase date. You may not reproduce this document or any of its contents without written authorization from Raw Thrills, Inc. or Play Mechanix™ Inc.

## Specifications

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

# Injustice Arcade™

## Product Specifications

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### Electrical Power

United States, International, and Japan

Operating AC Current: 5/2.5 Amps

Voltage: 115/230 ~ VAC 50/60Hz

Inrush AC Current: 7 Amps

### Dimensions

#### **43" Cabinet**

Height: 99.75" (2.53 meters)

Width: 46.25" (1.17 meters)

Depth: 33.62" (0.85 meters)

#### **55" Cabinet**

Height: 108.87" (2.76 meters)

Width: 56.25" (1.42 meters)

Depth: 34.00" (0.86 meters)

### Operating Temperature

50 °F to 104 °F

(10 °C to 40 °C)

### Operating Humidity

Must not exceed 95% relative humidity

## Fuse Replacement Guide

---

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

### **RIO**

5VDC = 3A 250V SLO-BLO

12VDC = 5A 250V SLO-BLO

### **Game Lighting**

5A 250V SLO-BLO (x4)

# Injustice Arcade™

## Setup

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### Unpack Materials

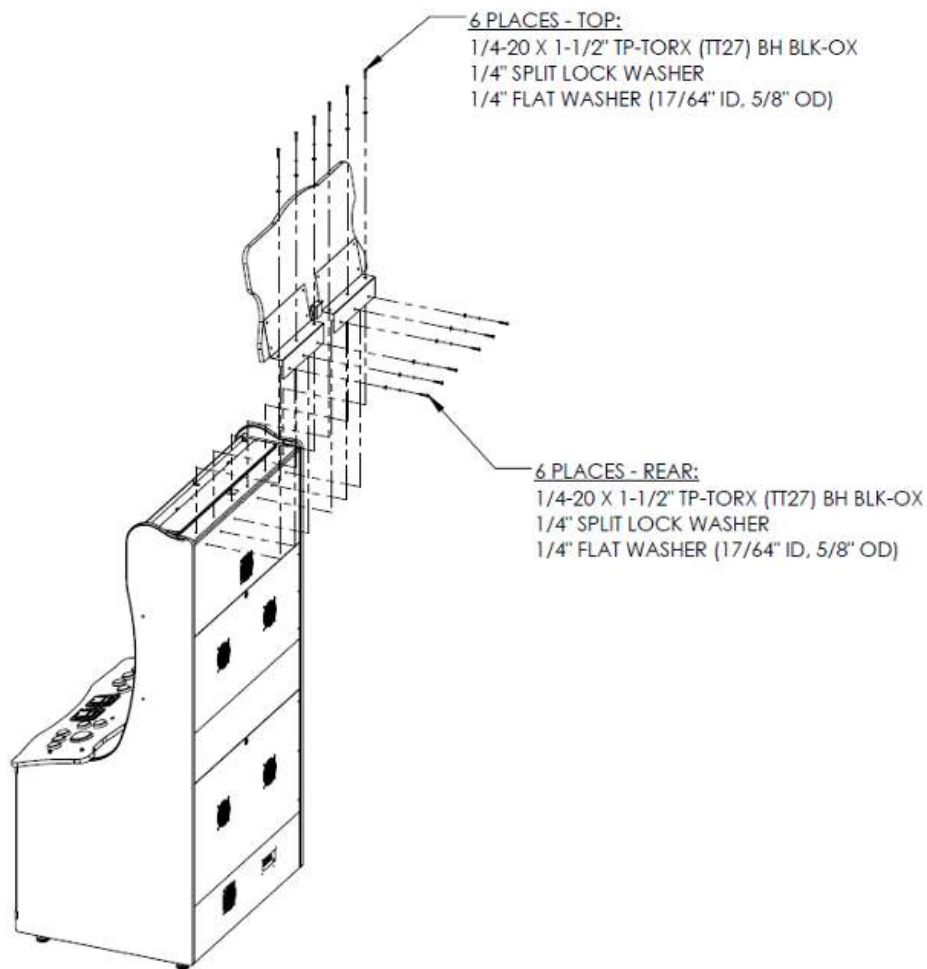
1. Place the shipping crate on a flat, stable surface.
2. Cut the banding straps and remove the cardboard lid.
3. Lift off the large cardboard containers surrounding the cabinet assembly and remove any shipping cleats.
4. Remove the coin door key from the coin return slot.
5. Open the top coin door.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

# Injustice Arcade™

## 43" Cabinet Assembly

**Note:** 2 people are required, and ladders are recommended. Marquee assembly is heavy!

1. Place cabinet in desired floor location. Setup ladders next to the cabinet for marquee installation.
2. Locate the marquee assembly as well as the following hardware:
  - a. (12) black tamper proof Torx machine screws, ¼ - 20 thread, 1-1/2" long
  - b. (12) ¼" black split lock washers
  - c. (12) ¼" black flat washers
3. Using a T-27 bit, securely mount the marquee assembly atop the cabinet as shown in the assembly setup diagram, avoiding any pinching/crushing of the wire harness.

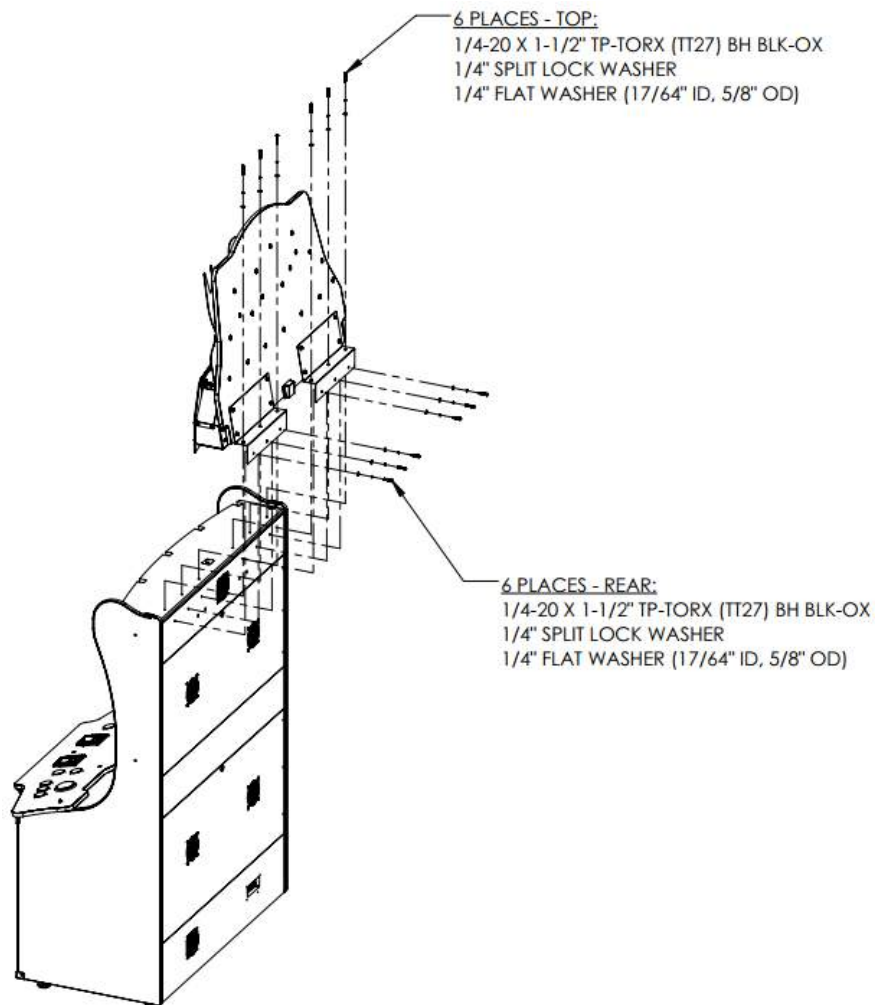


# Injustice Arcade™

## 55" Cabinet Assembly

**Note:** 2 people are required, and ladders are recommended. Marquee assembly is heavy!

4. Place cabinet in desired floor location. Setup ladders next to the cabinet for marquee installation.
5. Locate the marquee assembly as well as the following hardware:
  - a. (12) black tamper proof Torx machine screws, ¼ - 20 thread, 1-1/2" long
  - b. (12) ¼" black split lock washers
  - c. (12) ¼" black flat washers
6. Using a T-27 bit, securely mount the marquee assembly atop the cabinet as shown in the assembly setup diagram, avoiding any pinching/crushing of the wire harness which should pass through the access hole. Connect marquee harness to cabinet harness.



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## Check Electrical Settings

1. Verify the voltage of the AC outlet you will be plugging the game into.
2. Verify the AC outlet ground connection is present and working.

## Startup Game

1. Plug the line cord into an AC outlet.
2. Turn the main cabinet power switch on.
3. 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.
4. Authorize a set of cards. See *Authorizing More Cards* under the *Cards and Card Dispensers* section.

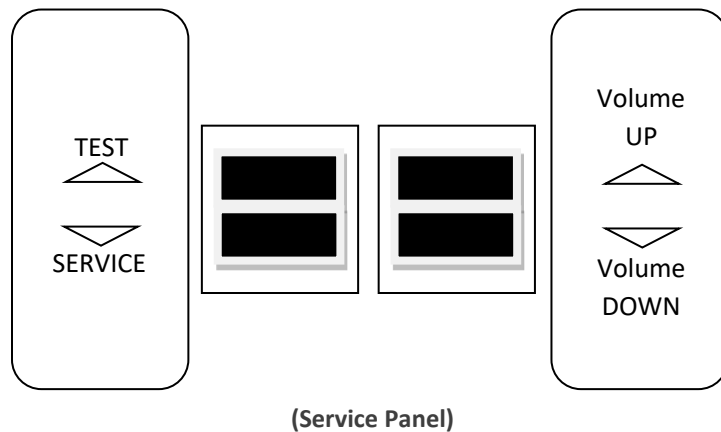
# Injustice Arcade™

## Diagnostics and Adjustments

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### Service Panel

The Service Panel is located behind the coin door and has four buttons that can be used to navigate the Test Menu system. There is also a USB on the Service Panel that can be used for software updates and audit downloads.



### 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 Scanner Test and verify both Player 1 and Player 2 card scanners are working properly.
7. Enter the Dispenser 1 Test and verify the Player 1 dispenser is working properly.
8. Enter the Dispenser 2 Test and verify the Player 2 dispenser is working properly.
9. Enter the Watchdog Test and verify the game reboots.
10. Upon a successful reboot, you are ready to adjust pricing, volume and other functions.

# Injustice Arcade™

## Test Menu Navigation

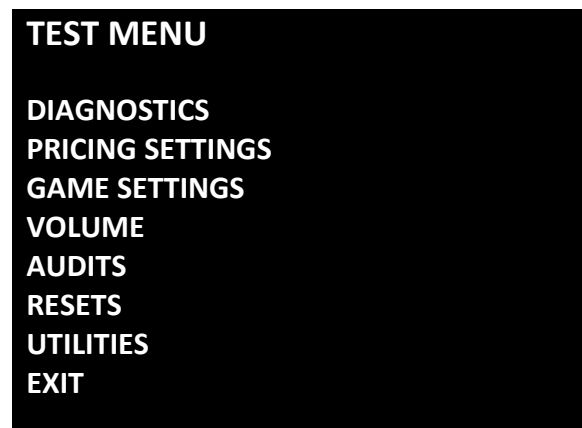
In addition to the buttons on the Service Panel, you can also use the Start and Gameplay buttons to navigate through the Test Menus.

| Navigating the Test Menu     |                                        |
|------------------------------|----------------------------------------|
| Button                       | Action                                 |
| TEST/BACK (Not in Test Menu) | Enters Test Menu (Hold for 2+ seconds) |
| TEST/BACK (In Test Menu)     | Selects Highlighted Option             |
| SERVICE (Not on Main Menu)   | Cancels Selection                      |
| VOLUME UP                    | Move Up                                |
| VOLUME DOWN                  | Move Down                              |
| Start Buttons                | Selects Highlighted Option             |
| P1 & P2 Quick Attack         | Move Up                                |
| P1 & P2 Block                | Move Down                              |
| P1 & P2 Strong Attack        | Selects Highlighted Option             |

## Test Menus

### Main Menu

Choose from all available operator settings and menus here.



# Injustice Arcade™

## Diagnostics

This menu contains various tests you can run to ensure everything on the cabinet is working properly.

### DIAGNOSTICS

INPUT TEST

MONITOR TEST

SOUND TEST

LIGHT TEST

COIN METER TEST

SCANNER TEST

DISPENSER 1 TEST

DISPENSER 2 TEST

SMART CARD TEST

WATCHDOG TEST

EXIT

- **Input Test:** Test all switch inputs on the cabinet
- **Monitor Test:** Tests the cabinet's monitor
- **Sound Test:** Tests cabinet speakers
- **Light Test:** Tests all lighting on the cabinet
- **Coin Meter Test:** Tests functionality of physical coin meter
- **Scanner Test:** Test for both card scanners
- **Dispenser 1 Test:** Tests player 1 card dispenser
- **Dispenser 2 Test:** Tests player 2 card dispenser
- **Smart Card Test:** Tests RFID smart card reader
- **Watchdog Test:** Tests Functionality of watchdog (Game will reboot if working properly)

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## Pricing Settings

This menu allows for the customization of different pricing related settings.

### PRICING SETTINGS

#### SEPARATE CREDIT POOLS

#### FREEPLAY

#### UNIT

#### UNIT VALUE

#### UNITS / CREDIT

#### UNITS / BILL PULSE

#### CREDITS TO START

#### CREDITS TO CONTINUE

#### EXIT

- **Separate Credit Pools**: Separates Player 1 and Player 2 credits and such that each player can only use the credits they have added (This setting is most commonly used for electronic swipe locations).
- **Freeplay**: No coins or swipes needed to play
- **Unit**: Choose between Coins, Card Swipes, or Currency
- **Unit Value**: Currency value per unit
- **Units / Credit**: Cost per game credit
- **Units / Bill Pulse**: Number of Units counted per DBV pulse
- **Credits to Start**: Cost to play from attract mode
- **Credits to Continue**: Cost to play from continue screen

#### Notes:

- Adjusting the number of units per credit will clear any currently stored partial credits.
- Adjusting Credit Pools will clear all credits.
- Separate Credit Pools feature is not compatible with DBV

## Game Settings

This menu allows you to adjust various settings related to game play.

### GAME SETTINGS

#### MATCH TIME

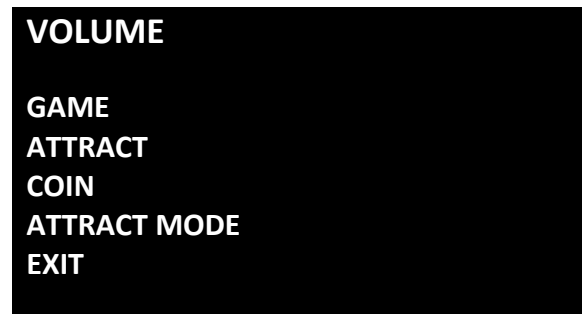
#### EXIT

- **Match Time**: Adjusts how the maximum amount of time a match can last

# Injustice Arcade™

## Volume

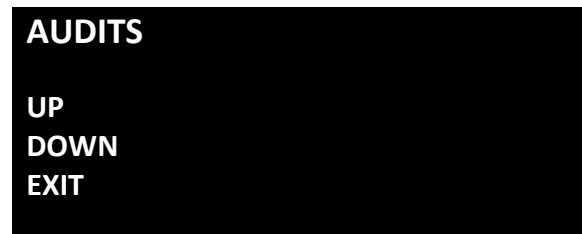
This menu allows you to adjust the volume levels for the game.



- **Game**: Sets the in-game volume level
- **Attract**: Sets the attract mode volume level
- **Coin**: Sets the volume level of the coin in sound
- **Attract Mode**: Determines the frequency at which sound is played during the attract mode. You can choose from: On, Off, and Sometimes.

## Audits

This menu allows you to view a wide variety of statistics and information about the game.



- **Up**: Scrolls up
- **Down**: Scrolls down

# Injustice Arcade™

## Resets

This menu contains all available operator resets for the game.

### RESETS

RESET CREDITS  
RESET DISPENSERS  
RESET CARDS OWED  
RESET AUDITS  
RESET ADJUSTMENTS  
FACTORY RESTORE  
EXIT

- **Reset Credits**: Clears all currently stored credits
- **Reset Dispensers**: Clears all error codes from dispensers
- **Reset Cards Owed**: Clears cards owed
- **Reset Audits**: Clears audits
- **Reset Adjustments**: Resets all adjustments back to default values
- **Factory Restore**: Completely restores game to the state it came from the factory in

## Utilities

This menu has a few miscellaneous operator tools and settings.

### UTILITIES

VIEW LOG  
COPY TO USB  
CRC CHECK  
EXIT

- **View Log**: Allows you to view the game's logs
- **Copy to USB**: Copies the audits and logs to a USB drive
- **CRC Check**: Reruns the crc check on the game's files

# Injustice Arcade™

## Cards and Card Dispensers

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**Note:**

Using damaged (bent, ripped, etc.) cards in the card dispenser(s) can cause damage to the dispenser(s).

### Refilling Card Dispensers

**Note:** Do not eject card hopper when refilling card dispensers, as this may damage the dispenser.



1. Open the card dispenser door.
2. Remove the weight from the card hopper.
3. Add cards to the card hopper, making sure to leave enough room for the weight.
4. Place the weight back into the card hopper.
5. Close the card dispenser door.

### Clearing Card Dispenser Jam

1. Open the card dispenser door.
2. Remove the weight from the card hopper.
3. Remove all loose (non-jammed) cards from the card hopper.
4. Carefully remove any jammed cards.
5. Check cards for damage and discard any damaged cards.
6. Put the undamaged cards back into the card hopper.
7. Place the weight back into the card hopper.
8. Close the card dispenser door.

### Authorizing More Cards

1. Remove the serialized RFID card included with your new box of cards.
2. Open the top coin door.
3. Make sure the game is in Attract Mode.
4. Place the RFID card on the Smart Card Reader, which can be found near the Service Panel.
5. Wait for the authorization process to complete. Once the authorization process is complete, an on-screen message will appear verifying the new cards have been authorized. This process can take up to 30 seconds.
6. Remove the used RFID card.
7. Close the coin door.

# Injustice Arcade™

## PC Hardware

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Your Injustice Arcade™ uses a HP Elitedesk 705 G3 MT computer with a GeForce GTX 1050 graphics card. Listed below are the recommended BIOS settings for the computer.

**NOTE 1**

The computer shipped with the correct BIOS settings. Making changes to the BIOS different from the settings listed below may adversely affect the game's functionality.

**NOTE 2**

In the event your video card needs to be replaced, any brand of GeForce GTX 1050 will work.



(HP Elitedesk 705 G3 MT)

# Injustice Arcade™

## HP Elitedesk 705 G3 MT BIOS

### **To Access BIOS Settings:**

With the computer powered off, plug a USB keyboard into an open USB slot. Hold the 'F10' key and turn the computer on. Continue holding the F10 key until the BIOS Setup screen appears.

**Note: All settings not listed should remain their default values.**

### **Advanced**

- + Boot Options
  - After Power Loss..... [POWER ON]
  - UEFI Boot Order:..... [DISABLE]
  - Legacy Boot Order (defaults):
    - USB
    - SATA CD
    - STATO
    - NETWORK BOOT
- + Built-in Device Options
  - Integrated Video:..... [DISABLE]

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

# Injustice Arcade™

## 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. Call your distributor before servicing its internal components. Ask about warranty information as it relates to the PC.

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

Steps to Re-Install the software:

1. Insert installation media into computer. (USB or DVD)
2. Turn cabinet power OFF and wait 30 seconds.
3. Turn cabinet power ON.
4. If using USB installation, select the desired game from the menu.
5. Follow all onscreen instructions.
6. Once installation is complete, remove the installation media and power cycle the game.
7. Your game is now restored and ready to go.

# Injustice Arcade™

## Troubleshooting

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

| Problem                        | Possible Cause                                 | Solution                                                                                                                                                                                                                                                    |
|--------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Game will not power up.</b> | 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.                       | See BIOS Settings section.                                                                                                                                                                                                                                  |
|                                | Flash Drive Installer is left connected to PC. | Disconnect Flash Drive Installer and power cycle the game.                                                                                                                                                                                                  |
| <b>Buttons do not work.</b>    | 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.                                                                                                                                                                                            |

# Injustice Arcade™

| Problem                                | Possible Cause                                                            | Solution                                                                                                                                                                                                                                                                                                      |
|----------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Neither buttons nor audio work.</b> | 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. |
| <b>No sound or bad sound.</b>          | Bad connection.                                                           | Check connection to speakers.                                                                                                                                                                                                                                                                                 |
|                                        | Volume set too low.                                                       | Use VOL UP button on Test panel to raise volume                                                                                                                                                                                                                                                               |
|                                        | Faulty wiring.                                                            | Verify all wires are firmly connected to the speakers, PCB, and green computer audio port. Verify that each wire is connected to the correct port and no wires are frayed or improperly shorting to ground.                                                                                                   |
|                                        | Blown speakers.                                                           | Remove the grill and inspect each speaker for visible damage. Run the Sound Test from System Tests in the Operator Menu to verify each speaker is working.                                                                                                                                                    |
|                                        | Reversed wires.                                                           | A weak or low muffled sound is a sign of reversed speaker wires. Check for reversed wires on each speaker.                                                                                                                                                                                                    |
|                                        | Faulty PCB.                                                               | To verify audio is working at the computer, connect stereo headphones to the green computer audio port.                                                                                                                                                                                                       |

# Injustice Arcade™

| Problem                                                                                                                                                             | Possible Cause          | Solution                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Constant low audio hum.</b>                                                                                                                                      | 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                                     |
| <b>Game does not load.</b>                                                                                                                                          | PC hard drive failure.  | Recover hard drive.<br>See Flash Installer Document or contact your distributor for the latest software revision. |
| <b>PC Drive test reports “bad” or “missing” files.</b>                                                                                                              |                         |                                                                                                                   |
| <b>Game fails to finish loading.</b>                                                                                                                                |                         |                                                                                                                   |
| <b>After resetting, game still reports an error.</b>                                                                                                                |                         |                                                                                                                   |
| <b>Erratic game mode or attract mode.</b>                                                                                                                           |                         |                                                                                                                   |
| <b>WARNING!</b><br><b>Data files Corrupted.</b><br><b>(Game Operation May Become Unstable.)</b><br><b>Use “Test” Switch to Enter Test Mode and Run “File Test.”</b> |                         |                                                                                                                   |
| <b>Game Resets</b>                                                                                                                                                  | Bad file.               | Run Flash Installer.                                                                                              |
| <b>No Video</b>                                                                                                                                                     | 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 DVI or HDMI connector to Monitor. Check and secure DVI or HDMI connector to PC.                  |
| <b>Coin meter does not click during test.</b>                                                                                                                       | 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.                                                                                  |

# Injustice Arcade™

| Problem                                                                   | Possible Cause                            | Solution                                                                                                                                                                                       |
|---------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dongle Not Present</b>                                                 | Dongle missing or disconnected.           | Find dongle cable and reseal in USB port.                                                                                                                                                      |
|                                                                           | Faulty USB port.                          | Insert dongle cable in different USB port.                                                                                                                                                     |
| <b>Improper number of credits given when coins or bills are inserted.</b> | Incorrect setting in Pricing Adjustments. | Adjust pricing settings.                                                                                                                                                                       |
|                                                                           | Faulty wiring.                            | Disconnect cabinet from AC power. Verify wires are firmly connected to coin mech and bill validator and ground wires are properly connected. Verify no wires are frayed or shorting to ground. |
|                                                                           | Faulty coin mech.                         | Verify coin mech is not jammed. Ensure coin mech is properly aligned and latched to coin door.                                                                                                 |
| <b>Exits Test Mode every 3 seconds.</b>                                   | Test button stuck in ON position.         | Slide or toggle button off after Test Menu appears                                                                                                                                             |
| <b>Connect RIO Board or RIO Board Missing.</b>                            | USB cable disconnected.                   | Check USB connection from PC to RIO board.                                                                                                                                                     |
|                                                                           | No Power to RIO board.                    | Check for proper voltage (+5V, +12V) at RIO P1 connector.                                                                                                                                      |
| <b>Card Dispenser Not Dispensing (Motor Not Moving)</b>                   | Card Jammed                               | See <i>Clearing Card Dispenser Jam</i> in the <i>Cards and Dispensers</i> section.                                                                                                             |
|                                                                           | Harness Connector Unplugged               | Make sure the connector from the wire harness is fully plugged in.                                                                                                                             |
| <b>Card Dispenser Not Dispensing (Motor Moving)</b>                       | Card Jammed                               | See <i>Clearing Card Dispenser Jam</i> in the <i>Cards and Dispensers</i> section.                                                                                                             |
|                                                                           | Weight Missing                            | Ensure weight is in the card hopper on top of the card stack.                                                                                                                                  |
|                                                                           | Card Dispenser Too Full                   | Remove some of the cards from the card hopper.                                                                                                                                                 |

# Injustice Arcade™

| Problem                               | Possible Cause            | Solution                                                                            |
|---------------------------------------|---------------------------|-------------------------------------------------------------------------------------|
| <b>RFID Card Not Being Recognized</b> | USB Cable Unplugged       | Ensure the Smart Card Reader's USB cable is securely plugged in.                    |
|                                       | Card Too Far Away         | Make sure you're physically touching the RFID card to the Smart Card Reader.        |
| <b>Cards Not Scanning Properly</b>    | Card Scanner(s) Unplugged | Ensure the Card Scanner's USB cable is securely plugged in.                         |
|                                       | Scanning Window Dirty     | Ensure the Scanning Window is clean and that there are no major scratches or marks. |
|                                       | Scanner LED not Working   | Make sure the connector for the LED is fully plugged in.                            |

# Injustice Arcade™

## Technical Support

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For an authorized distributor near you, check the Raw Thrills website at [www.rawthrills.com](http://www.rawthrills.com)

### **Betson's Raw Thrills Technical Support Hotline**

Phone: 1-800-753-2513

FAX: 1-201-438-5019

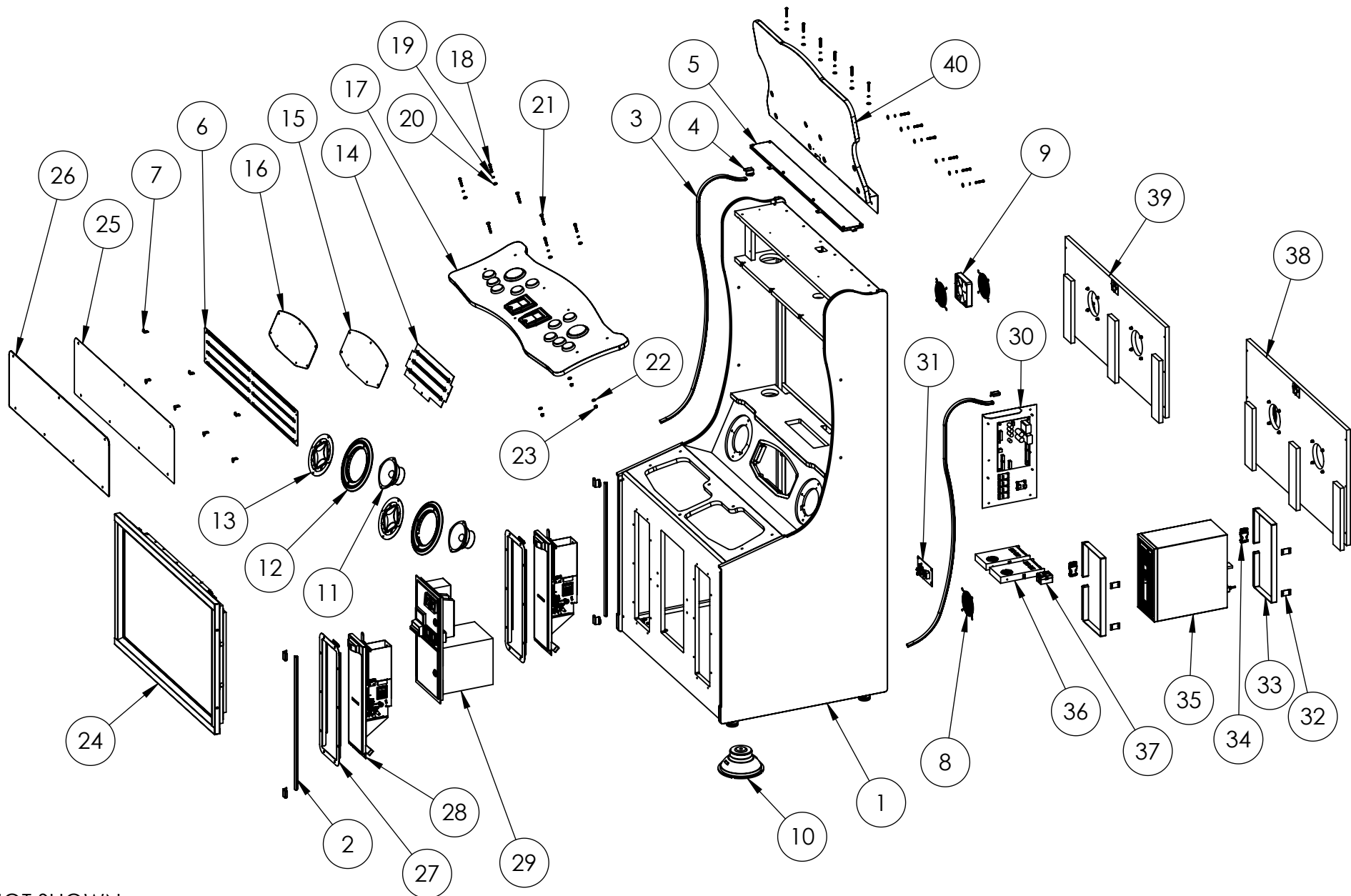
Email: [rtsupport@betson.com](mailto:rtsupport@betson.com)





## **Electrical and Mechanical Illustrations**

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**NOT SHOWN:**

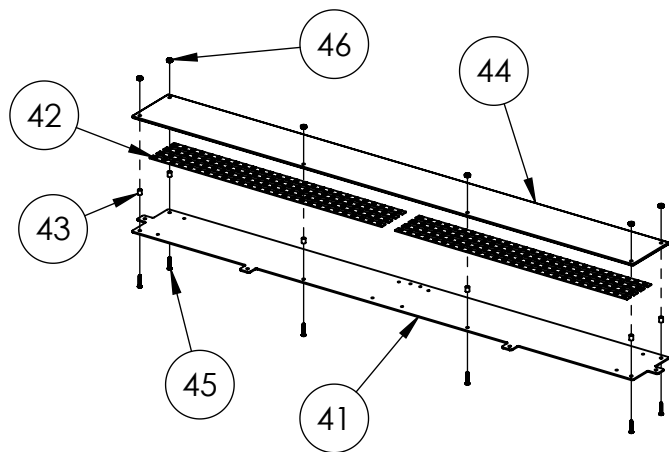
- > Selective Hardware
- > 380-00005-01 - Smart Card Reader
  - (installed on #29)
- > 500-00131-01 - RGB LED Strip Reel
  - 2X 65CM / 39 LEDs (installed in #2)
  - 2X 145CM / 87 LEDs (installed in #3)

Injustice Arcade - 43" LCD  
(BOM on next page)





| ITEM NO. | PART NUMBER                              | DESCRIPTION                                                                                         | QTY. |
|----------|------------------------------------------|-----------------------------------------------------------------------------------------------------|------|
| 1        | 601-00796-01                             | Injustice 43" Cabinet                                                                               | 1    |
| 2        | 603-00718-01 (25.625in)                  | LED T-Molding Extrusion - 25.625"                                                                   | 2    |
| 3        | 603-00718-01 (56.75in)                   | LED T-Molding Extrusion - 56.75"                                                                    | 2    |
| 4        | 600-01942-01                             | LED T-Molding Clip                                                                                  | 6    |
| 5        | Injustice_43_Marquee_Light_Panel_Assy    | Uplighting Marquee LED Sub-Assembly                                                                 | 1    |
| 6        | Injustice_43_Marquee_Logo_Backlight_Assy | Logo Marquee LED Sub-Assembly                                                                       | 1    |
| 7        | 600-01434-01                             | Marquee Top/Bottom Bracket                                                                          | 7    |
| 8        | 800-00001-00                             | 120mm Wire Fan Guard                                                                                | 3    |
| 9        | 820-00001-00                             | Cooling Fan (standard size): 12VDC, 3W, 80CFM                                                       | 1    |
| 10       | 2-1-18-00-00-000                         | Goldwood: 8" Woofer, 4 Ohm, Poly-Mica Cone                                                          | 1    |
| 11       | 2-1-10-00-00-000                         | 5.25", 8 Ohm Full Range Speaker (Goldwood)                                                          | 2    |
| 12       | Injustice_Speaker_Bezel_Assy             | Speaker Bezel Sub-Assembly                                                                          | 2    |
| 13       | 600-02070-01                             | Speaker Grill                                                                                       | 2    |
| 14       | Injustice_43_Mini_Marquee_Backlight_Assy | Mini Marquee LED Sub-Assembly                                                                       | 1    |
| 15       | 606-01365-01                             | Mini Marquee Translite                                                                              | 1    |
| 16       | 600-02094-01                             | Mini Marquee Lens PETG                                                                              | 1    |
| 17       | Injustice_43_CP_Assy                     | Control Panel Sub-Assembly                                                                          | 1    |
| 18       | McMaster-Carr - 96075A231                | Black-Oxide Alloy Steel Tamper-Resistant Torx Rounded Head Screws, 1/4"-20 Thread Size, 1-1/2" Long | 16   |
| 19       | McMaster-Carr - 93711A500                | Black-Oxide 18-8 Stainless Steel Split Lock Washer for 1/4" Socket Head Screws, 0.26" ID, 0.363" OD | 16   |
| 20       | McMaster-Carr - 97416A119                | Black-Oxide Steel SAE Flat Washer for 1/4" Screw Size, 0.281" ID, 0.625" OD                         | 16   |
| 21       | McMaster-Carr - 90185A550                | Grade 5 Steel Square-Neck Carriage Bolt, Medium-Strength, 1/4"-20 Thread Size, 2" Long, PAINT BLACK | 3    |
| 22       | McMaster-Carr - 90126A029                | Zinc-Plated Steel SAE Washer for 1/4" Screw Size, 0.281" ID, 0.625" OD                              | 3    |
| 23       | McMaster-Carr - 90675A029                | Steel Locknut with External-Tooth Lock Washer, Zinc-Plated, 1/4"-20 Thread Size                     | 3    |
| 24       | Injustice_43_Monitor_Assy                | Monitor Sub-Assembly                                                                                | 1    |
| 25       | 606-01271-01                             | Marquee Translite                                                                                   | 1    |
| 26       | 600-01951-01                             | Marquee PETG                                                                                        | 1    |
| 27       | 600-02060-01                             | Extended Card Dispenser Door Frame Plate                                                            | 2    |
| 28       | Extended_Card_Dispenser_Door_Assy        | Card Dispenser Door Sub-Assembly                                                                    | 2    |
| 29       | 800-00005-01                             | Mid-Width Coin Door Assembly (Suzo-Happ)                                                            | 1    |
| 30       | Injustice_RIO_Assy                       | RIO Assembly w/ Mounting Plate                                                                      | 1    |
| 31       | AC_Plate_Assy                            | AC Power Plate Assembly                                                                             | 1    |
| 32       | 600-00891-01                             | Securing Nylon Strap Plate                                                                          | 4    |
| 33       | McMaster-Carr - 87425K76                 | Nylon Fabric Strip, Black, 1" Wide, 0.08" Thick (56" Length)                                        | 2    |
| 34       | McMaster-Carr - 29705T86                 | Black Plastic Buckle, Squeeze-Release, NO-Sew, for 1" Wide Webbing                                  | 2    |
| 35       | 850-00025-01                             | HP 705 G3 MT w/ GTX 1050 Video Card                                                                 | 1    |
| 36       | 500-00193-01                             | RSP-320-12: 320W, 12V PFC Dual Voltage Power Supply                                                 | 2    |
| 37       | 800-00040-01                             | Magnecraft - Solid State Relay - 6210AXXSZS-DC3 (6210DSX-1)                                         | 1    |
| 38       | Injustice_43_Lower_Back_Door_Assy        | Lower Back Door Sub-Assembly                                                                        | 1    |
| 39       | Injustice_43_Upper_Back_Door_Assy        | Upper Back Door Sub-Assembly                                                                        | 1    |
| 40       | Injustice_43_Marquee_Backboard_Assy      | Marquee Backboard Sub-Assembly                                                                      | 1    |

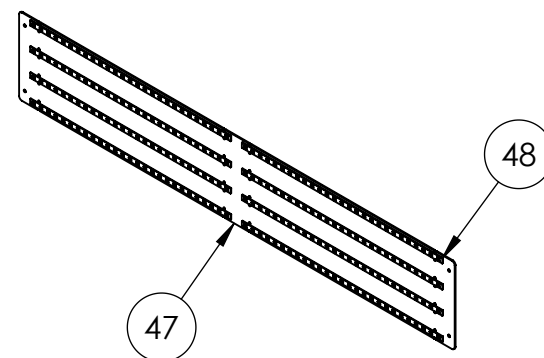


| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                              | QTY. |
|----------|---------------------------|------------------------------------------------------------------------------------------|------|
| 41       | 600-01947-01              | Marquee LED Panel                                                                        | 1    |
| 42       | 500-00162-01 (45 CM)      | White Flexible LED Tape, w/ FOAM                                                         | 8    |
| 43       | McMaster-Carr - 94639A289 | Nylon Unthreaded Spacers, 1/4" OD, 5/16" Length, for Number 8 Screw Size                 | 6    |
| 44       | 600-01948-01              | Marquee LED Panel PETG                                                                   | 1    |
| 45       | McMaster-Carr - 90272A151 | Steel Phillips Rounded Head Screws, 6-32 Thread Size, 3/4" Long                          | 6    |
| 46       | McMaster-Carr - 90675A007 | Steel Locknut with External-Tooth Lock Washer, Zinc-Plated, 6-32 Thread Size, 5/16" Wide | 6    |

## Injustice Arcade (43") Uplighting Marquee LED Sub-Assembly

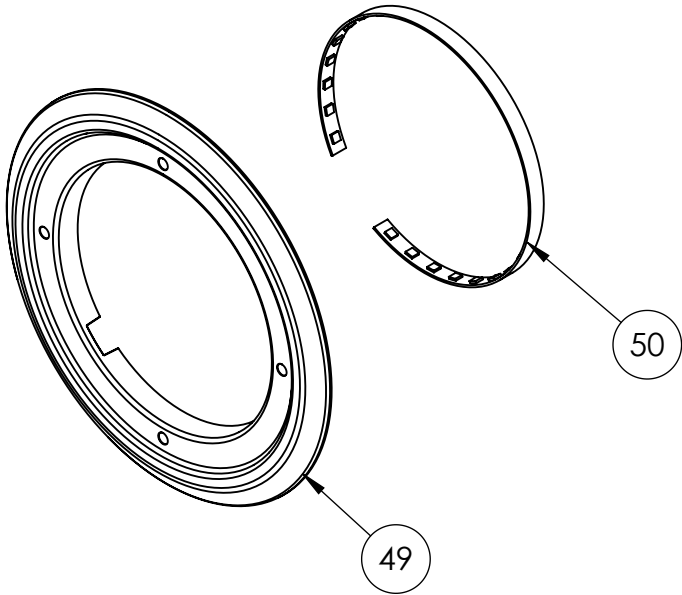


| ITEM NO. | PART NUMBER          | DESCRIPTION                      | QTY. |
|----------|----------------------|----------------------------------|------|
| 47       | 600-02096-01         | Logo LED Panel                   | 1    |
| 48       | 500-00162-01 (45 CM) | White Flexible LED Tape, w/ FOAM | 8    |



## Injustice Arcade (43") Logo Marquee LED Sub-Assembly

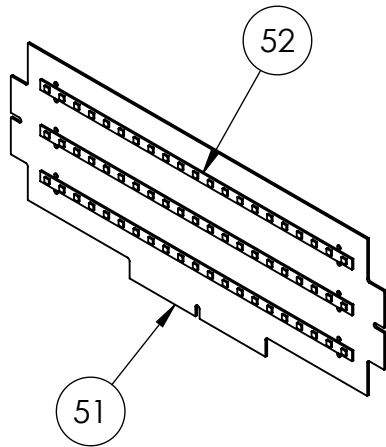
| ITEM NO. | PART NUMBER          | DESCRIPTION                   | QTY. |
|----------|----------------------|-------------------------------|------|
| 49       | 603-00853-01         | Speaker Bezel                 | 1    |
| 50       | 500-00167-01 (45 CM) | Red Flexible LED Tape w/ FOAM | 1    |



## Injustice Arcade (43") Speaker Bezel Sub-Assembly

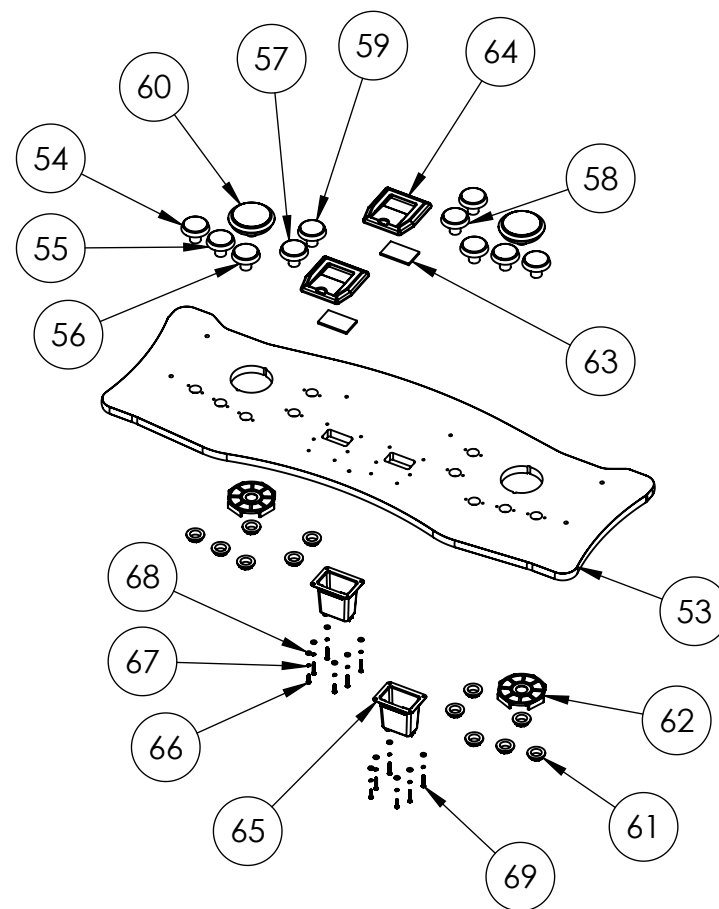


| ITEM NO. | PART NUMBER          | DESCRIPTION                      | QTY. |
|----------|----------------------|----------------------------------|------|
| 51       | 600-02095-01         | Mini Marquee LED Panel           | 1    |
| 52       | 500-00162-01 (35 CM) | White Flexible LED Tape, w/ FOAM | 3    |



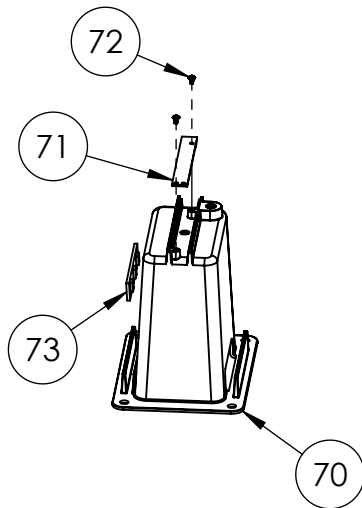
## Injustice Arcade (43") Mini Marquee LED Sub-Assembly

| ITEM NO. | PART NUMBER                       | DESCRIPTION                                                                                             | QTY. |
|----------|-----------------------------------|---------------------------------------------------------------------------------------------------------|------|
| 53       | 601-00797-01                      | Control Panel                                                                                           | 1    |
| 54       | 702-00087-01                      | Large Round RED IPB (.187 Gold MS, 6V White LED) w/ "QUICK" legend                                      | 2    |
| 55       | 702-00076-01                      | Large Round WHITE IPB (.187 Gold MS, 6V White LED) w/ "BLOCK" legend                                    | 2    |
| 56       | 702-00088-01                      | Large Round BLUE IPB (.187 Gold MS, 6V White LED) w/ "STRONG" legend                                    | 2    |
| 57       | 702-00085-01                      | Large Round RED IPB (.187 Gold SW, 6V White LED) w/ "START" legend (P1)                                 | 1    |
| 58       | 702-00086-01                      | Large Round BLUE IPB (.187 Gold SW, 6V White LED) w/ "START" legend (P2)                                | 1    |
| 59       | 702-00084-01                      | Large Round GREEN IPB (.187 Gold SW, 6V White LED) w/ "BUY CARD ONLY" legend                            | 2    |
| 60       | 702-00077-01                      | WHITE/CLEAR Jumbo Round With Locking Lampholder (.187 Gold SW, 6V White LED) w/ "SPECIAL ATTACK" legend | 2    |
| 61       | Screw-in Ring Nut                 | included with IPBs                                                                                      | 12   |
| 62       | Jumbo Mounting Ring               | included with Jumbo IPBs                                                                                | 2    |
| 63       | 600-02072-01                      | Card Reader Glass                                                                                       | 2    |
| 64       | 603-00854-01                      | Card Reader Bezel                                                                                       | 2    |
| 65       | Injustice_Card_Reader_Module_Assy | Card Reader Module Sub-Assembly                                                                         | 2    |
| 66       | McMaster-Carr - 90316A197         | Stainless Steel Flanged Hex Head Screws with Slotted Drive, 8-32 Thread Size, 3/4" Long                 | 4    |
| 67       | McMaster-Carr - 91102A009         | Zinc-Plated Steel Split Lock Washer for Number 8 Screw Size, 0.174" ID, 0.293" OD                       | 12   |
| 68       | McMaster-Carr - 90126A009         | Zinc-Plated Steel SAE Washer for Number 8 Screw Size, 0.188" ID, 0.438" OD                              | 12   |
| 69       | McMaster-Carr - 91772A211         | 18-8 Stainless Steel Phillips Rounded Head Screw, 8-32 Thread Size, 1-1/8" Long                         | 8    |



Injustice Arcade (43")  
Control Panel Sub-Assembly



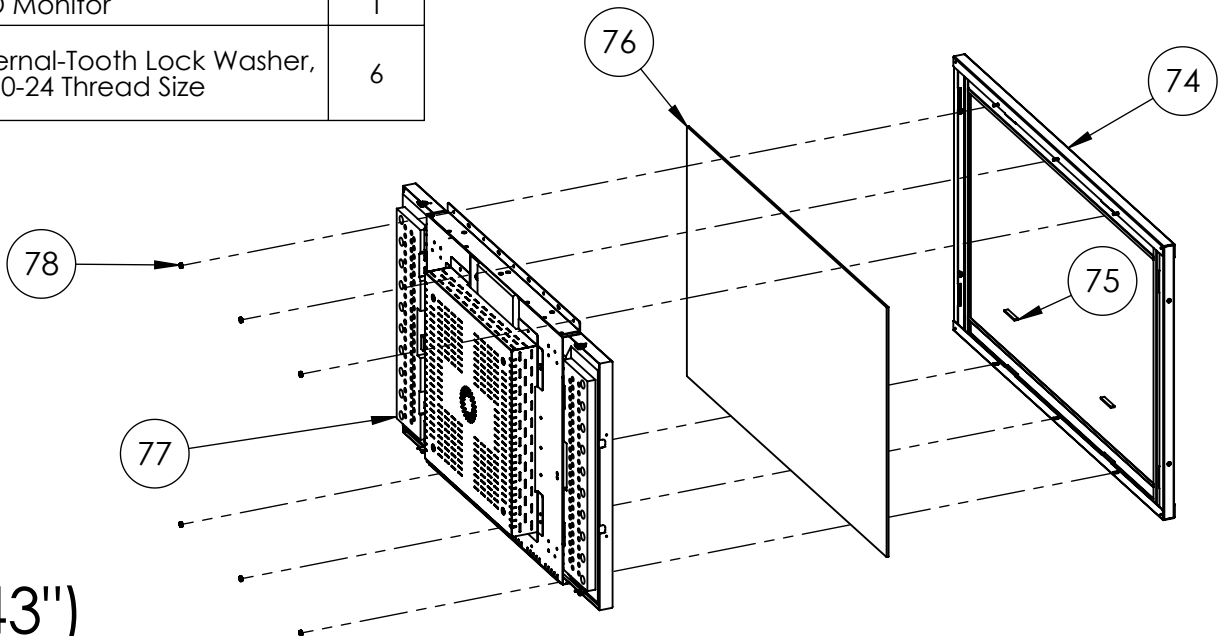


| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                                             | QTY. |
|----------|---------------------------|---------------------------------------------------------------------------------------------------------|------|
| 70       | 603-00855-01              | Card Reader Camera Holder                                                                               | 1    |
| 71       | 500-00213-01              | CM-020-10CM: Card Reader Webcam                                                                         | 1    |
| 72       | McMaster-Carr - 99461A605 | Phillips Rounded Head Thread-Forming Screws for Plastic, 18-8 Stainless Steel, Number 1 Size, 1/8" Long | 2    |
| 73       | 500-00162-01 (5 CM)       | White Flexible LED Tape, w/ FOAM                                                                        | 1    |

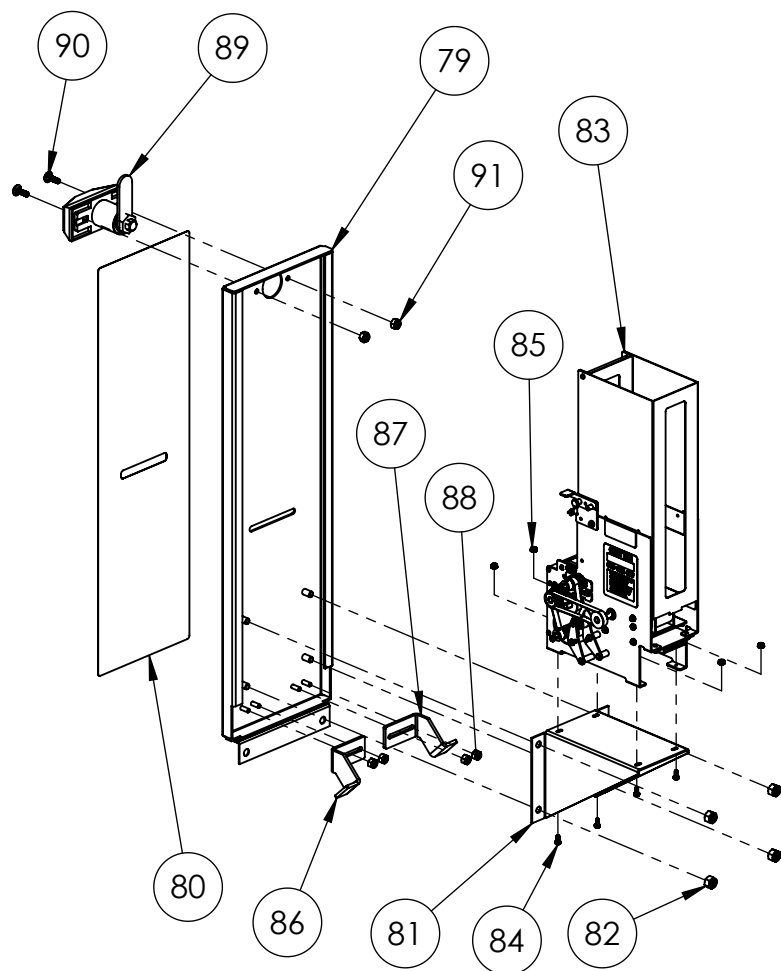
## Injustice Arcade (43") Card Reader Module Sub-Assembly



| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                   | QTY. |
|----------|---------------------------|-------------------------------------------------------------------------------|------|
| 74       | 608-00156-01              | Monitor Frame Weldment                                                        | 1    |
| 75       | Foam Tape                 | Black: 1/4"W x 1/8" T x 2"L                                                   | 2    |
| 76       | 600-00073-01              | LCD Display Glass (Tempered)                                                  | 1    |
| 77       | 809-00004-01              | 43" HD Monitor                                                                | 1    |
| 78       | McMaster-Carr - 90675A011 | Steel Locknut with External-Tooth Lock Washer, Zinc-Plated, 10-24 Thread Size | 6    |



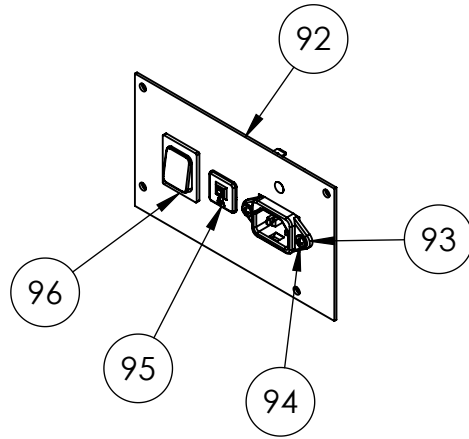
## Injustice Arcade (43") Monitor Sub-Assembly



| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                                   | QTY. |
|----------|---------------------------|-----------------------------------------------------------------------------------------------|------|
| 79       | 608-00229-01              | Extended Card Dispenser Door Weldment                                                         | 1    |
| 80       | 606-01358-01              | Card Dispenser Decal                                                                          | 1    |
| 81       | 600-02073-01              | Card Dispenser Mounting Plate                                                                 | 1    |
| 82       | McMaster-Carr - 90640A129 | Low-Strength Steel Nylon-Insert Locknut, Zinc-Plated, 1/4"-20 Thread Size                     | 4    |
| 83       | 800-00067-00              | CD-1300 Card Dispenser w/ 340 Cassette                                                        | 1    |
| 84       | McMaster-Carr - 90317A526 | Stainless Steel Rounded Head Screws with External-Tooth Washer, M3 x 0.5 mm Thread, 8 mm Long | 4    |
| 85       | McMaster-Carr - 93825A110 | Steel Locknut with External-Tooth Lock Washer, Class 8, Zinc-Plated, M3 x 0.5 mm Thread       | 4    |
| 86       | 600-02061-01              | Card Dispenser Right Stop Bracket                                                             | 1    |
| 87       | 600-02062-01              | Card Dispenser Left Stop Bracket                                                              | 1    |
| 88       | McMaster-Carr - 90631A009 | Low-Strength Steel Nylon-Insert Locknut, Zinc-Plated, 8-32 Thread Size                        | 4    |
| 89       | 604-00036-01              | T-Handle Lock Assy                                                                            | 1    |
| 90       | McMaster-Carr - 92356A243 | 18-8 Stainless Steel Square-Neck Carriage Bolt, 10-24 Thread Size, 5/8" Long                  | 2    |
| 91       | McMaster-Carr - 90631A011 | Low-Strength Steel Nylon-Insert Locknut, Zinc-Plated, 10-24 Thread Size                       | 2    |

## Injustice Arcade (43") Card Dispenser Door Sub-Assembly



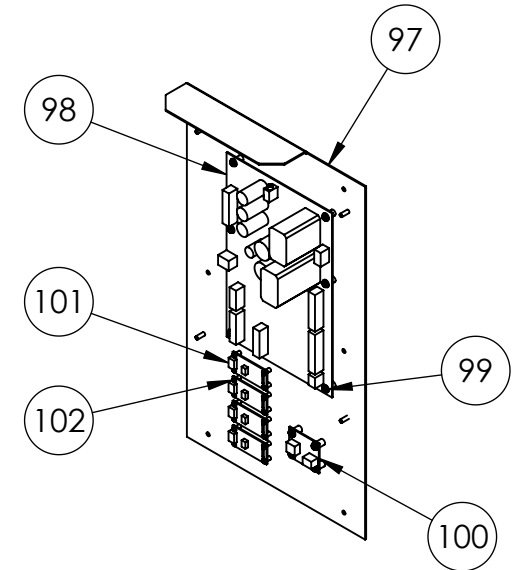


| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                 | QTY. |
|----------|---------------------------|-----------------------------------------------------------------------------|------|
| 92       | 600-01681-01              | AC Electronics Plate                                                        | 1    |
| 93       | 703W-00/08                | AC Receptacle: 250V, 15A (Qualtek)                                          | 1    |
| 94       | McMaster-Carr - 90272A146 | Steel Phillips Rounded Head Screws, 6-32 Thread Size, 3/8" Long             | 2    |
| 95       | T9-611P-6                 | Thermal Circuit Breaker: 240VAC, 6A, Snap-in, Fuseholder, 1-Pole (Schurter) | 1    |
| 96       | 1832.3312                 | Rocker Switch (DPST): 250VAC, 20A (Marquardt)                               | 1    |

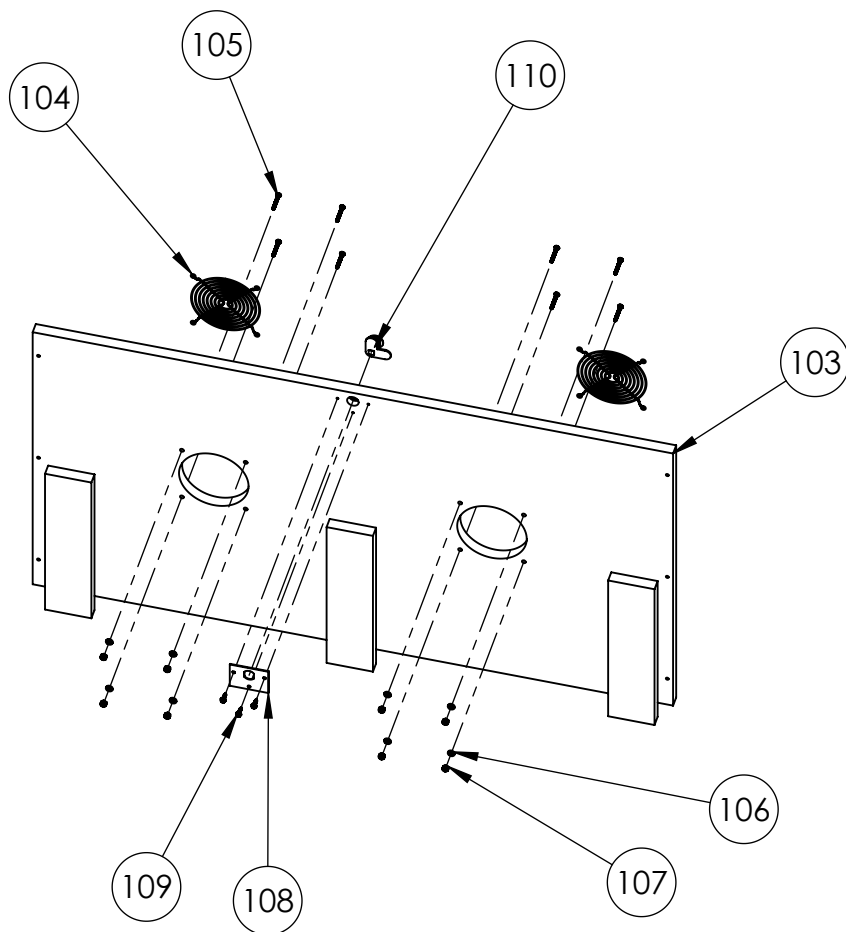
## Injustice Arcade (43") AC Power Plate Assembly



| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                             | QTY. |
|----------|---------------------------|-----------------------------------------------------------------------------------------|------|
| 97       | 600-01914-01              | RIO Mounting Plate                                                                      | 1    |
| 98       | 500-00040-01              | RIO PCB                                                                                 | 1    |
| 99       | McMaster-Carr - 90316A192 | Stainless Steel Flanged Hex Head Screws with Slotted Drive, 8-32 Thread Size, 3/8" Long | 10   |
| 100      | 500-00194-01              | 5V, 5A Switching Regulator PCB (12V input)                                              | 1    |
| 101      | 520-00024-01              | Aliens / Terminator Deluxe Gun Kickboard                                                | 4    |
| 102      | McMaster-Carr - 90272A106 | Steel Phillips Rounded Head Screws, 4-40 Thread Size, 1/4" Long                         | 16   |



## Injustice Arcade (43") RIO Assembly w/ Mounting Plate

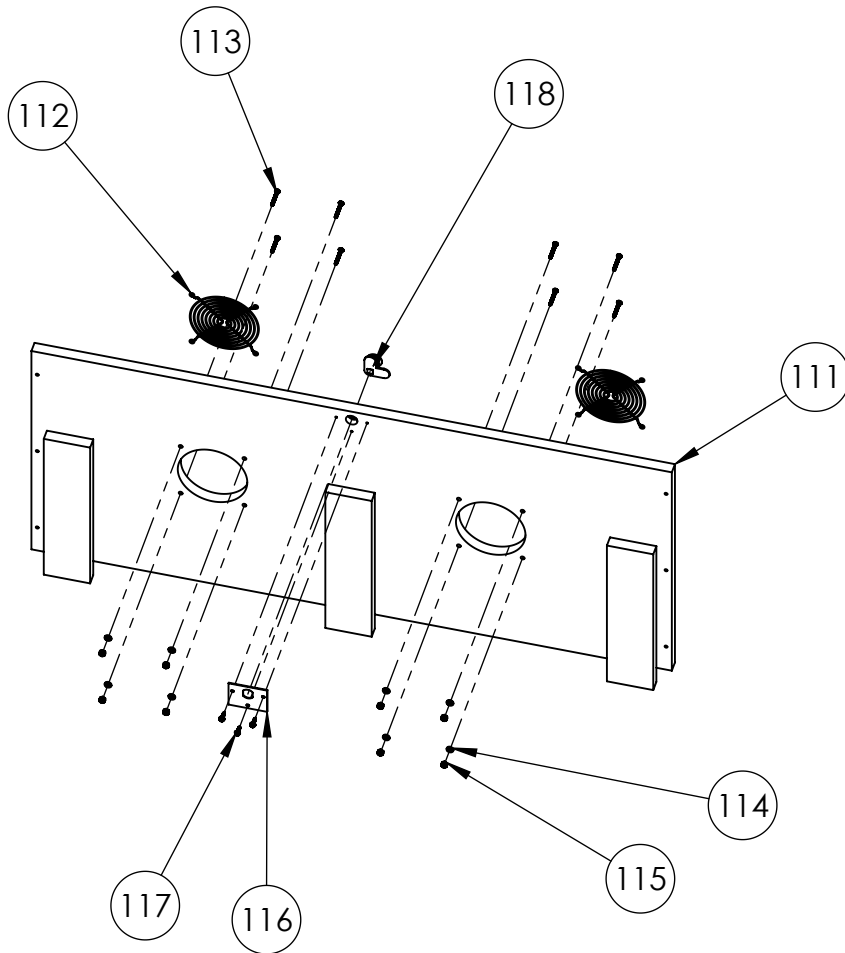


| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                          | QTY. |
|----------|---------------------------|--------------------------------------------------------------------------------------|------|
| 103      | 601-00798-01              | Lower Back Door                                                                      | 1    |
| 104      | 800-00001-00              | 120mm Wire Fan Guard                                                                 | 2    |
| 105      | McMaster-Carr - 90272A201 | Steel Phillips Rounded Head Screws, 8-32 Thread Size, 1-1/4" Long                    | 8    |
| 106      | McMaster-Carr - 90126A009 | Zinc-Plated Steel SAE Washer for Number 8 Screw Size, 0.188" ID, 0.438" OD           | 8    |
| 107      | McMaster-Carr - 90631A009 | Low-Strength Steel Nylon-Insert Locknut, Zinc-Plated, 8-32 Thread Size               | 8    |
| 108      | 600-00043-01              | Lock Retainer Plate                                                                  | 1    |
| 109      | McMaster-Carr - 90054A196 | Flanged Hex Head Screws for Sheet Metal, Zinc-Plated Steel, Number 8 Size, 5/8" Long | 3    |
| 110      | 150-00001-00              | Standard Door Lock Assembly (for 3/4" Panels)                                        | 1    |

Injustice Arcade (43")  
Lower Back Door Sub-Assembly



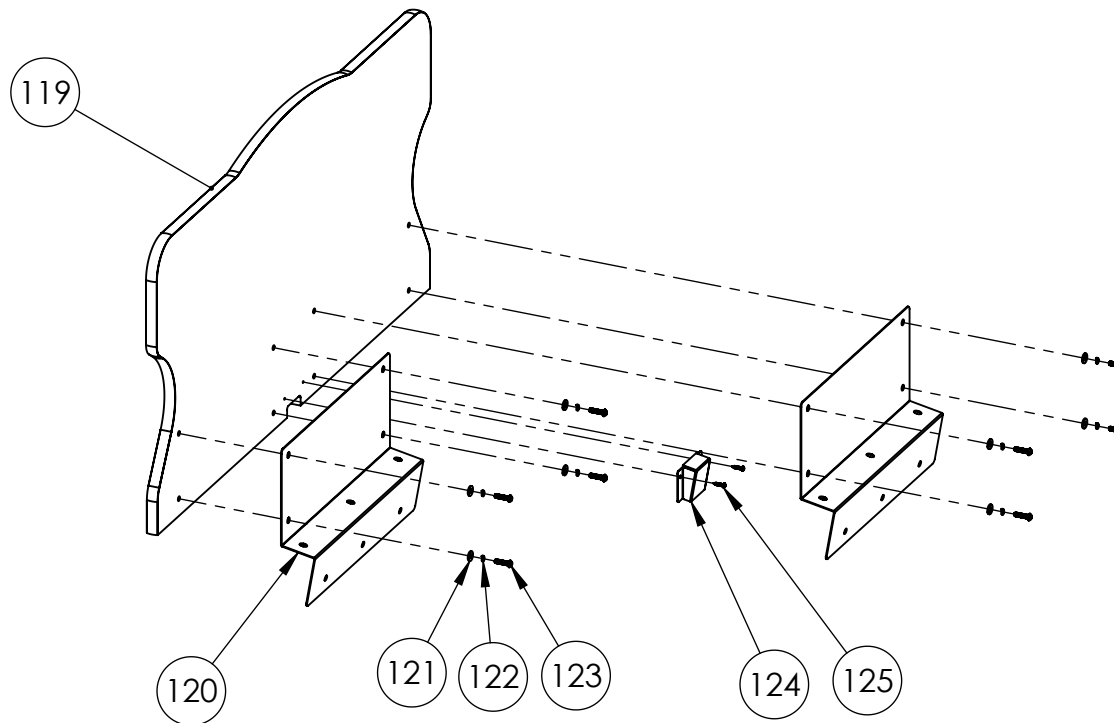
| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                          | QTY. |
|----------|---------------------------|--------------------------------------------------------------------------------------|------|
| 111      | 601-00799-01              | Upper Back Door                                                                      | 1    |
| 112      | 800-00001-00              | 120mm Wire Fan Guard                                                                 | 2    |
| 113      | McMaster-Carr - 90272A201 | Steel Phillips Rounded Head Screws, 8-32 Thread Size, 1-1/4" Long                    | 8    |
| 114      | McMaster-Carr - 90126A009 | Zinc-Plated Steel SAE Washer for Number 8 Screw Size, 0.188" ID, 0.438" OD           | 8    |
| 115      | McMaster-Carr - 90631A009 | Low-Strength Steel Nylon-Insert Locknut, Zinc-Plated, 8-32 Thread Size               | 8    |
| 116      | 600-00043-01              | Lock Retainer Plate                                                                  | 1    |
| 117      | McMaster-Carr - 90054A196 | Flanged Hex Head Screws for Sheet Metal, Zinc-Plated Steel, Number 8 Size, 5/8" Long | 3    |
| 118      | 150-00001-00              | Standard Door Lock Assembly (for 3/4" Panels)                                        | 1    |



## Injustice Arcade (43") Upper Back Door Sub-Assembly



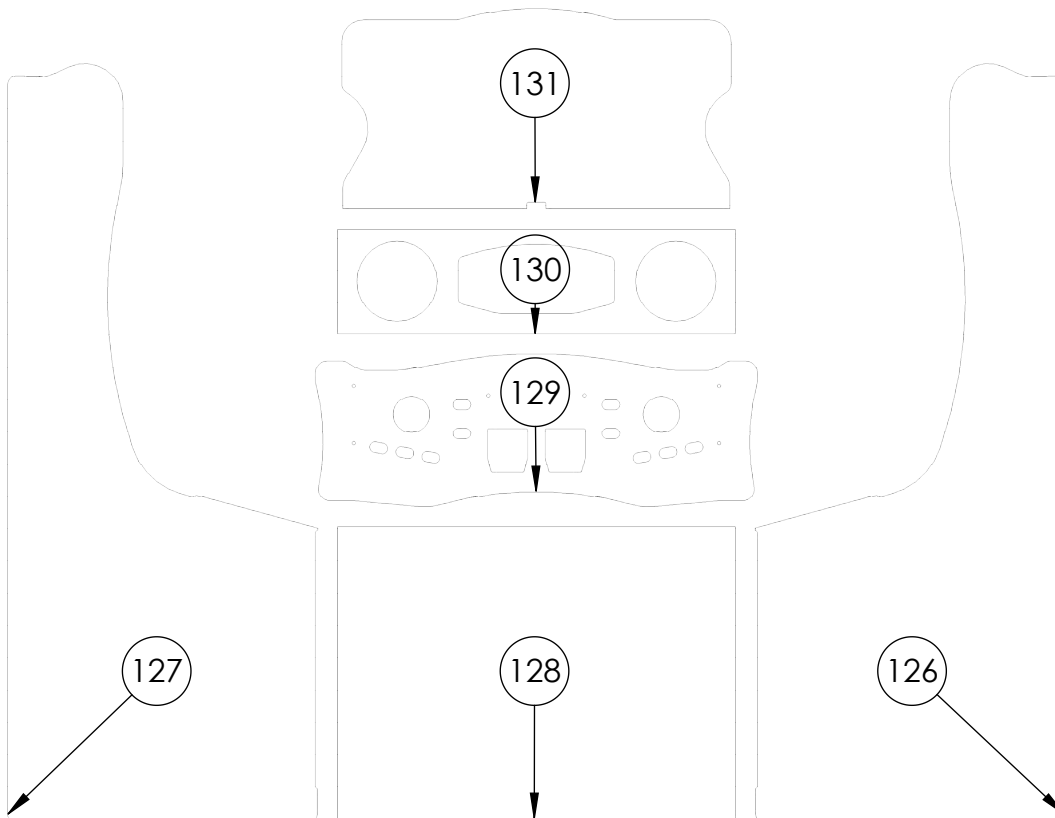
| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                                                            | QTY. |
|----------|---------------------------|------------------------------------------------------------------------------------------------------------------------|------|
| 119      | 601-00813-01              | Marquee Panel                                                                                                          | 1    |
| 120      | 600-02087-01              | Marquee Mounting Bracket                                                                                               | 2    |
| 121      | McMaster-Carr - 97416A119 | Black-Oxide Steel SAE Flat Washer for 1/4" Screw Size, 0.281" ID, 0.625" OD                                            | 8    |
| 122      | McMaster-Carr - 93711A500 | Black-Oxide 18-8 Stainless Steel Split Lock Washer for 1/4" Socket Head Screws, 0.26" ID, 0.363" OD                    | 8    |
| 123      | McMaster-Carr - 96075A223 | Black-Oxide Alloy Steel Tamper-Resistant Torx Rounded Head Screws, 1/4"-20 Thread Size, 1" Long                        | 8    |
| 124      | 600-02089-01              | Marquee Harness Plate                                                                                                  | 1    |
| 125      | McMaster-Carr - 95638A197 | Tamper-Resistant Torx Rounded Head Screws for Sheet Metal, 18-8 Stainless Steel, Number 8 Size, 3/4" Long, PAINT BLACK | 2    |



Injustice Arcade (43")  
Marquee Backboard Sub-Assembly

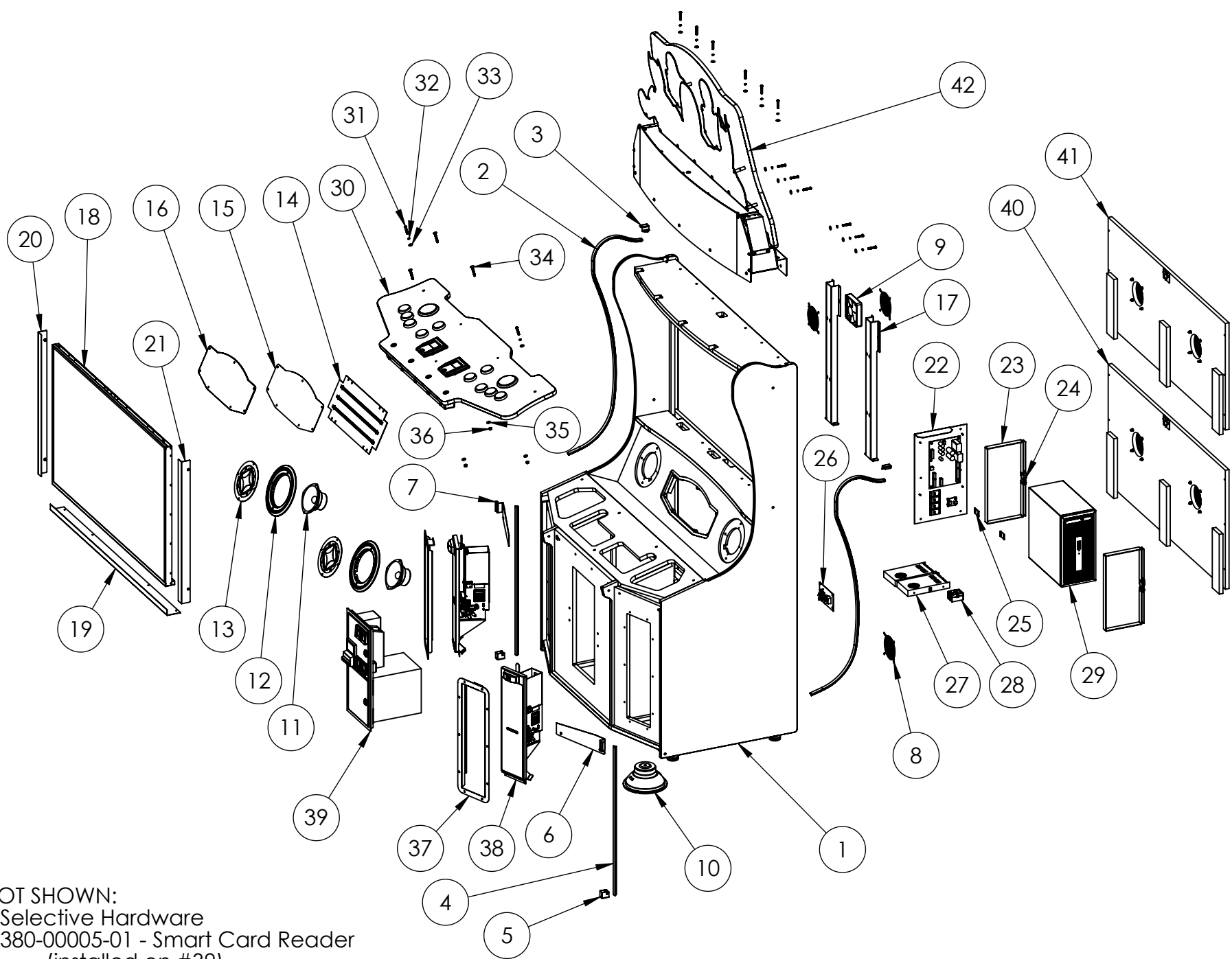


| ITEM NO. | PART NUMBER  | DESCRIPTION              | QTY. |
|----------|--------------|--------------------------|------|
| 126      | 606-01273-01 | Right Side Panel Decal   | 1    |
| 127      | 606-01274-01 | Left Side Panel Decal    | 1    |
| 128      | 606-01275-01 | Front Panel Decal        | 1    |
| 129      | 606-01279-01 | Control Panel Decal      | 1    |
| 130      | 606-01366-01 | Speaker Panel Decal      | 1    |
| 131      | 606-01276-01 | Marquee Background Decal | 1    |



Injustice Arcade (43")  
Cabinet Decals





NOT SHOWN:

- > Selective Hardware
- > 380-00005-01 - Smart Card Reader
  - (installed on #39)
- > 500-00131-01 - RGB LED Strip Reel
  - 2X 140CM / 84 LEDs (installed in #2)
  - 2X 75CM / 45 LEDs (installed in #4)

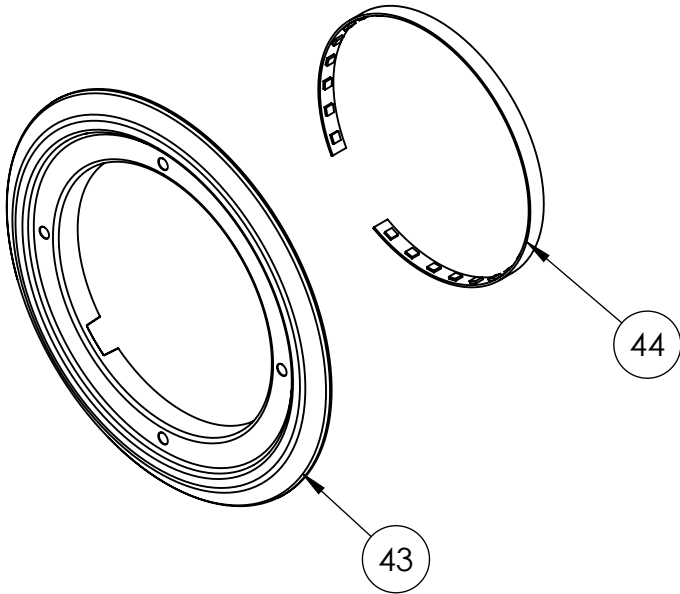
Injustice Arcade - 55" LCD  
(BOM on next page)





| ITEM NO. | PART NUMBER                              | DESCRIPTION                                                                                         | QTY. |
|----------|------------------------------------------|-----------------------------------------------------------------------------------------------------|------|
| 1        | 601-00810-01                             | Injustice 55" Cabinet                                                                               | 1    |
| 2        | 603-00718-01 (55.625in)                  | LED T-Molding Extrusion - 55.625"                                                                   | 2    |
| 3        | 600-01942-01                             | LED T-Molding Clip                                                                                  | 2    |
| 4        | 603-00718-01 (29.75in)                   | LED T-Molding Extrusion - 29.75"                                                                    | 2    |
| 5        | 600-02039-01                             | LED T-Molding Corner Clip                                                                           | 2    |
| 6        | 600-02037-01                             | LED T-Molding Angled Plate Right                                                                    | 1    |
| 7        | 600-02038-01                             | LED T-Molding Angled Plate Left                                                                     | 1    |
| 8        | 800-00001-00                             | 120mm Wire Fan Guard                                                                                | 3    |
| 9        | 820-00001-00                             | Cooling Fan (standard size): 12VDC, 3W, 80CFM                                                       | 1    |
| 10       | 2-1-18-00-00-000                         | Goldwood: 8" Woofer, 4 Ohm, Poly-Mica Cone                                                          | 1    |
| 11       | 2-1-10-00-00-000                         | 5.25", 8 Ohm Full Range Speaker (Goldwood)                                                          | 2    |
| 12       | Injustice_Speaker_Bezel_Assy             | Speaker Bezel Sub-Assembly                                                                          | 2    |
| 13       | 600-02070-01                             | Speaker Grill                                                                                       | 2    |
| 14       | Injustice_55_Mini_Marquee_Backlight_Assy | Mini Marquee LED Sub-Assembly                                                                       | 1    |
| 15       | 606-01349-01                             | Mini Marquee Translite                                                                              | 1    |
| 16       | 600-02071-01                             | Mini Marquee Lens PETG                                                                              | 1    |
| 17       | 600-01482-01                             | LCD Mounting Strut                                                                                  | 2    |
| 18       | 809-00012-01                             | 55" Open Frame LCD (with glass)                                                                     | 1    |
| 19       | 600-02091-01                             | Bottom Monitor Bracket                                                                              | 1    |
| 20       | 600-02092-01                             | Left Monitor Frame Bracket                                                                          | 1    |
| 21       | 600-02093-01                             | Right Monitor Frame Bracket                                                                         | 1    |
| 22       | Injustice_RIO_Assy                       | RIO Assembly w/ Mounting Plate                                                                      | 1    |
| 23       | McMaster-Carr - 87425K76                 | Nylon Fabric Strip, Black, 1" Wide, 0.08" Thick (56" Length)                                        | 2    |
| 24       | McMaster-Carr - 29705T86                 | Black Plastic Buckle, Squeeze-Release, NO-Sew, for 1" Wide Webbing                                  | 2    |
| 25       | 600-00891-01                             | Securing Nylon Strap Plate                                                                          | 2    |
| 26       | AC_Plate_Assy                            | AC Power Plate Assembly                                                                             | 1    |
| 27       | 500-00193-01                             | RSP-320-12: 320W, 12V PFC Dual Voltage Power Supply                                                 | 2    |
| 28       | 800-00040-01                             | Magnecraft - Solid State Relay - 6210AXXSZS-DC3 (6210DSX-1)                                         | 1    |
| 29       | 850-00025-01                             | HP 705 G3 MT w/ GTX 1050 Video Card                                                                 | 1    |
| 30       | Injustice_55_CP_Assy                     | Control Panel Sub-Assembly                                                                          | 1    |
| 31       | McMaster-Carr - 96075A231                | Black-Oxide Alloy Steel Tamper-Resistant Torx Rounded Head Screws, 1/4"-20 Thread Size, 1-1/2" Long | 14   |
| 32       | McMaster-Carr - 93711A500                | Black-Oxide 18-8 Stainless Steel Split Lock Washer for 1/4" Socket Head Screws, 0.26" ID, 0.363" OD | 14   |
| 33       | McMaster-Carr - 97416A119                | Black-Oxide Steel SAE Flat Washer for 1/4" Screw Size, 0.281" ID, 0.625" OD                         | 14   |
| 34       | McMaster-Carr - 90185A550                | Grade 5 Steel Square-Neck Carriage Bolt, Medium-Strength, 1/4"-20 Thread Size, 2" Long, PAINT BLACK | 3    |
| 35       | McMaster-Carr - 90126A029                | Zinc-Plated Steel SAE Washer for 1/4" Screw Size, 0.281" ID, 0.625" OD                              | 3    |
| 36       | McMaster-Carr - 90675A029                | Steel Locknut with External-Tooth Lock Washer, Zinc-Plated, 1/4"-20 Thread Size                     | 3    |
| 37       | 600-02060-01                             | Extended Card Dispenser Door Frame Plate                                                            | 2    |
| 38       | Extended_Card_Dispenser_Door_Assy        | Card Dispenser Door Sub-Assembly                                                                    | 2    |
| 39       | 800-00005-01                             | Mid-Width Coin Door Assembly (Suzo-Happ)                                                            | 1    |
| 40       | Injustice_55_Lower_Back_Door_Assy        | Lower Back Door Sub-Assembly                                                                        | 1    |
| 41       | Injustice_55_Upper_Back_Door_Assy        | Upper Back Door Sub-Assembly                                                                        | 1    |
| 42       | Injustice_55_Marquee_Assy                | Marquee Sub-Assembly                                                                                | 1    |

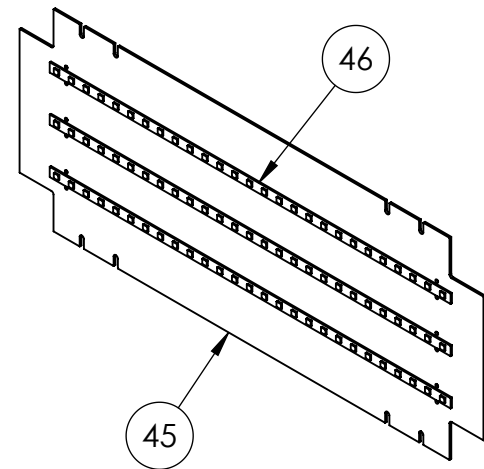
| ITEM NO. | PART NUMBER          | DESCRIPTION                   | QTY. |
|----------|----------------------|-------------------------------|------|
| 43       | 603-00853-01         | Speaker Bezel                 | 1    |
| 44       | 500-00167-01 (45 CM) | Red Flexible LED Tape w/ FOAM | 1    |



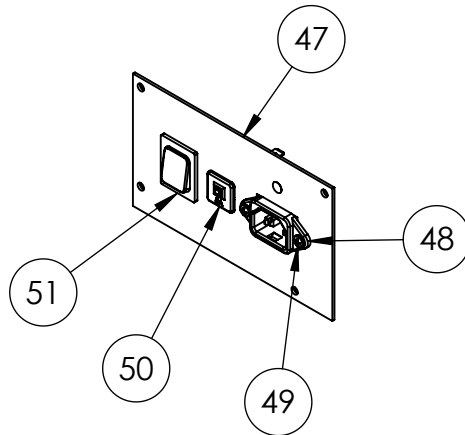
## Injustice Arcade (55") Speaker Bezel Sub-Assembly



| ITEM NO. | PART NUMBER          | DESCRIPTION                      | QTY. |
|----------|----------------------|----------------------------------|------|
| 45       | 600-02042-01         | Mini Marquee LED Panel           | 1    |
| 46       | 500-00162-01 (45 CM) | White Flexible LED Tape, w/ FOAM | 3    |



## Injustice Arcade (55") Mini Marquee LED Sub-Assembly

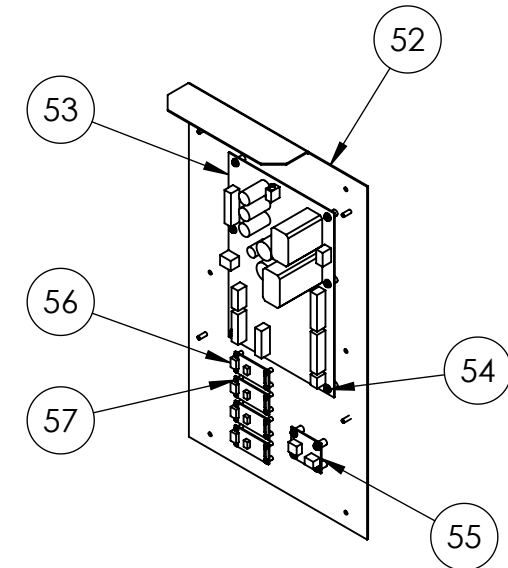


| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                 | QTY. |
|----------|---------------------------|-----------------------------------------------------------------------------|------|
| 47       | 600-01681-01              | AC Electronics Plate                                                        | 1    |
| 48       | 703W-00/08                | AC Receptacle: 250V, 15A (Qualtek)                                          | 1    |
| 49       | McMaster-Carr - 90272A146 | Steel Phillips Rounded Head Screws, 6-32 Thread Size, 3/8" Long             | 2    |
| 50       | T9-611P-6                 | Thermal Circuit Breaker: 240VAC, 6A, Snap-in, Fuseholder, 1-Pole (Schurter) | 1    |
| 51       | 1832.3312                 | Rocker Switch (DPST): 250VAC, 20A (Marquardt)                               | 1    |

## Injustice Arcade (55") AC Power Plate Assembly

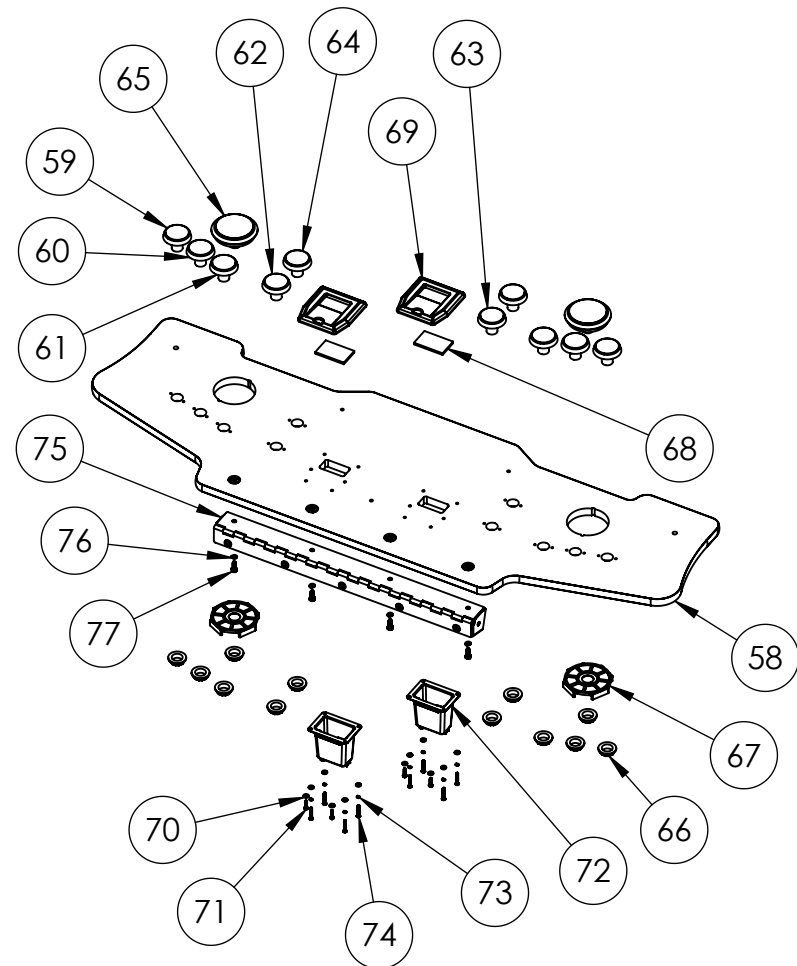


| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                             | QTY. |
|----------|---------------------------|-----------------------------------------------------------------------------------------|------|
| 52       | 600-01914-01              | RIO Mounting Plate                                                                      | 1    |
| 53       | 500-00040-01              | RIO PCB                                                                                 | 1    |
| 54       | McMaster-Carr - 90316A192 | Stainless Steel Flanged Hex Head Screws with Slotted Drive, 8-32 Thread Size, 3/8" Long | 10   |
| 55       | 500-00194-01              | 5V, 5A Switching Regulator PCB (12V input)                                              | 1    |
| 56       | 520-00024-01              | Aliens / Terminator Deluxe Gun Kickboard                                                | 4    |
| 57       | McMaster-Carr - 90272A106 | Steel Phillips Rounded Head Screws, 4-40 Thread Size, 1/4" Long                         | 16   |



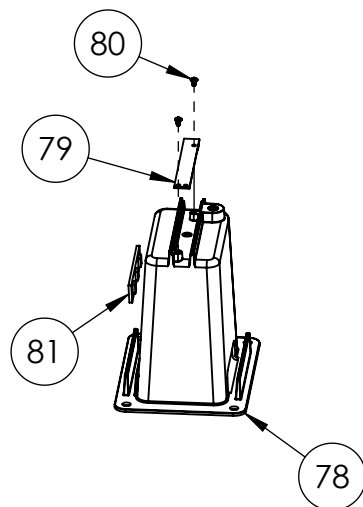
## Injustice Arcade (55") RIO Assembly w/ Mounting Plate

| ITEM NO. | PART NUMBER                       | DESCRIPTION                                                                                             | QTY. |
|----------|-----------------------------------|---------------------------------------------------------------------------------------------------------|------|
| 58       | 601-00811-01                      | Injustice 55" Control Panel                                                                             | 1    |
| 59       | 702-00087-01                      | Large Round RED IPB (.187 Gold MS, 6V White LED) w/ "QUICK" legend                                      | 2    |
| 60       | 702-00076-01                      | Large Round WHITE IPB (.187 Gold MS, 6V White LED) w/ "BLOCK" legend                                    | 2    |
| 61       | 702-00088-01                      | Large Round BLUE IPB (.187 Gold MS, 6V White LED) w/ "STRONG" legend                                    | 2    |
| 62       | 702-00085-01                      | Large Round RED IPB (.187 Gold SW, 6V White LED) w/ "START" legend (P1)                                 | 1    |
| 63       | 702-00086-01                      | Large Round BLUE IPB (.187 Gold SW, 6V White LED) w/ "START" legend (P2)                                | 1    |
| 64       | 702-00084-01                      | Large Round GREEN IPB (.187 Gold SW, 6V White LED) w/ "BUY CARD ONLY" legend                            | 2    |
| 65       | 702-00077-01                      | WHITE/CLEAR Jumbo Round With Locking Lampholder (.187 Gold SW, 6V White LED) w/ "SPECIAL ATTACK" legend | 2    |
| 66       | Screw-in Ring Nut                 | included with IPBs                                                                                      | 12   |
| 67       | Jumbo Mounting Ring               | included with Jumbo IPBs                                                                                | 2    |
| 68       | 600-02072-01                      | Card Reader Glass                                                                                       | 2    |
| 69       | 603-00854-01                      | Card Reader Bezel                                                                                       | 2    |
| 70       | McMaster-Carr - 90126A009         | Zinc-Plated Steel SAE Washer for Number 8 Screw Size, 0.188" ID, 0.438" OD                              | 12   |
| 71       | McMaster-Carr - 90316A197         | Stainless Steel Flanged Hex Head Screws with Slotted Drive, 8-32 Thread Size, 3/4" Long                 | 4    |
| 72       | Injustice_Card_Reader_Module_Assy | Card Reader Module Sub-Assembly                                                                         | 2    |
| 73       | McMaster-Carr - 91102A009         | Zinc-Plated Steel Split Lock Washer for Number 8 Screw Size, 0.174" ID, 0.293" OD                       | 8    |
| 74       | McMaster-Carr - 91772A211         | 18-8 Stainless Steel Phillips Rounded Head Screw, 8-32 Thread Size, 1-1/8" Long                         | 8    |
| 75       | Injustice_55_CP_Light_Assy        | Control Panel Light Sub-Assembly                                                                        | 1    |
| 76       | McMaster-Carr - 91102A029         | Zinc-Plated Steel Split Lock Washer for 1/4" Screw Size, 0.26" ID, 0.487" OD                            | 4    |
| 77       | McMaster-Carr - 92865A540         | Medium-Strength Grade 5 Steel Hex Head Screw, Zinc-Plated, 1/4"-20 Thread Size, 3/4" Long               | 4    |



Injustice Arcade (55")  
Control Panel Sub-Assembly



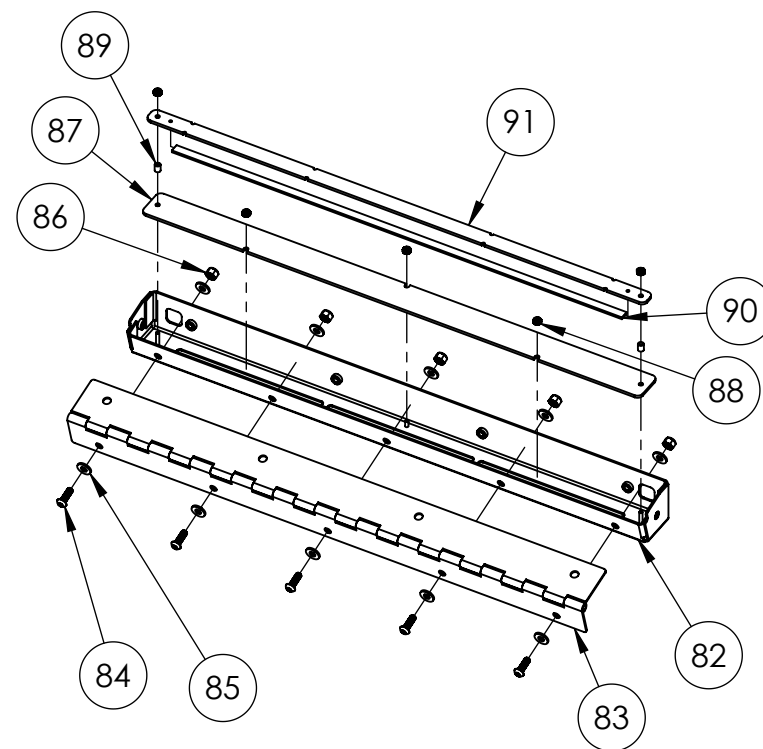


| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                                             | QTY. |
|----------|---------------------------|---------------------------------------------------------------------------------------------------------|------|
| 78       | 603-00855-01              | Card Reader Camera Holder                                                                               | 1    |
| 79       | 500-00213-01              | CM-020-10CM: Card Reader Webcam                                                                         | 1    |
| 80       | McMaster-Carr - 99461A605 | Phillips Rounded Head Thread-Forming Screws for Plastic, 18-8 Stainless Steel, Number 1 Size, 1/8" Long | 2    |
| 81       | 500-00162-01 (5 CM)       | White Flexible LED Tape, w/ FOAM                                                                        | 1    |

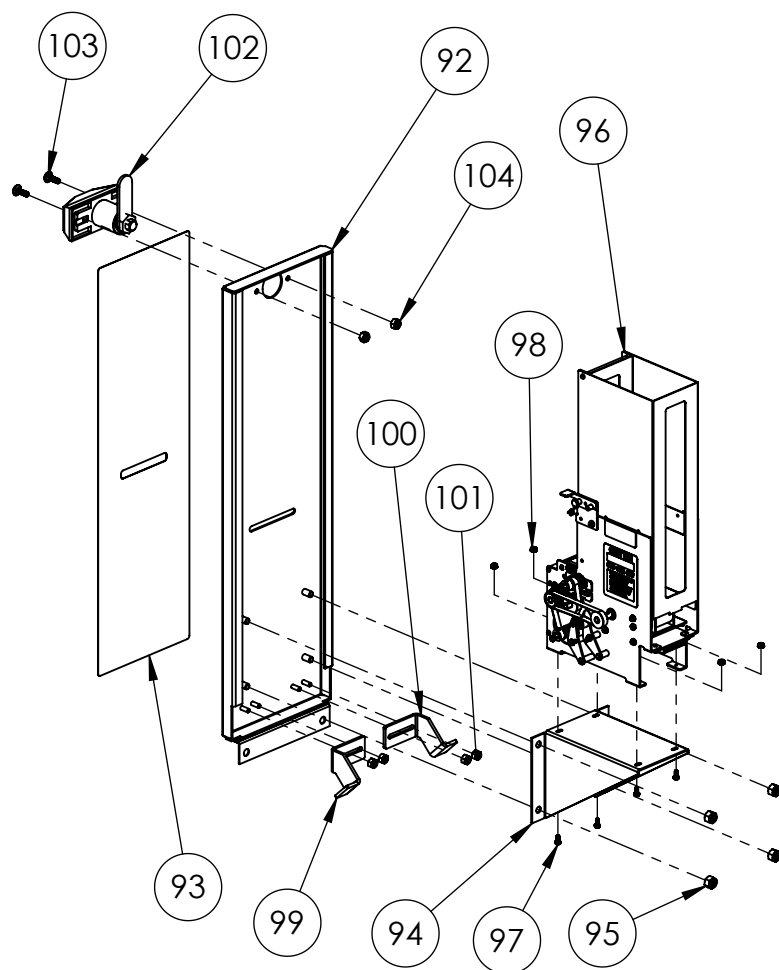
## Injustice Arcade (55") Card Reader Module Sub-Assembly



| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                                       | QTY. |
|----------|---------------------------|---------------------------------------------------------------------------------------------------|------|
| 82       | 600-02044-01              | Control Panel Light Bracket                                                                       | 1    |
| 83       | 600-02048-01              | Control Panel Hinge                                                                               | 1    |
| 84       | McMaster-Carr - 96075A219 | Black-Oxide Alloy Steel Tamper-Resistant Torx Rounded Head Screws, 1/4"-20 Thread Size, 3/4" Long | 5    |
| 85       | McMaster-Carr - 97416A119 | Black-Oxide Steel SAE Flat Washer for 1/4" Screw Size, 0.281" ID, 0.625" OD                       | 10   |
| 86       | McMaster-Carr - 95615A120 | Medium-Strength Steel Nylon-Insert Locknut, Grade 5, Zinc-Plated, 1/4"-20 Thread Size             | 5    |
| 87       | 600-02045-01              | Control Panel Light Lens PETG                                                                     | 1    |
| 88       | McMaster-Carr - 90675A007 | Steel Locknut with External-Tooth Lock Washer, Zinc-Plated, 6-32 Thread Size, 5/16" Wide          | 5    |
| 89       | McMaster-Carr - 94639A289 | Nylon Unthreaded Spacers, 1/4" OD, 5/16" Length, for Number 8 Screw Size                          | 2    |
| 90       | 500-00167-01 (55CM)       | Red Flexible LED Tape w/ FOAM                                                                     | 1    |
| 91       | 600-02046-01              | Control Panel Light Panel                                                                         | 1    |



## Injustice Arcade (55") Control Panel Light Sub-Assembly

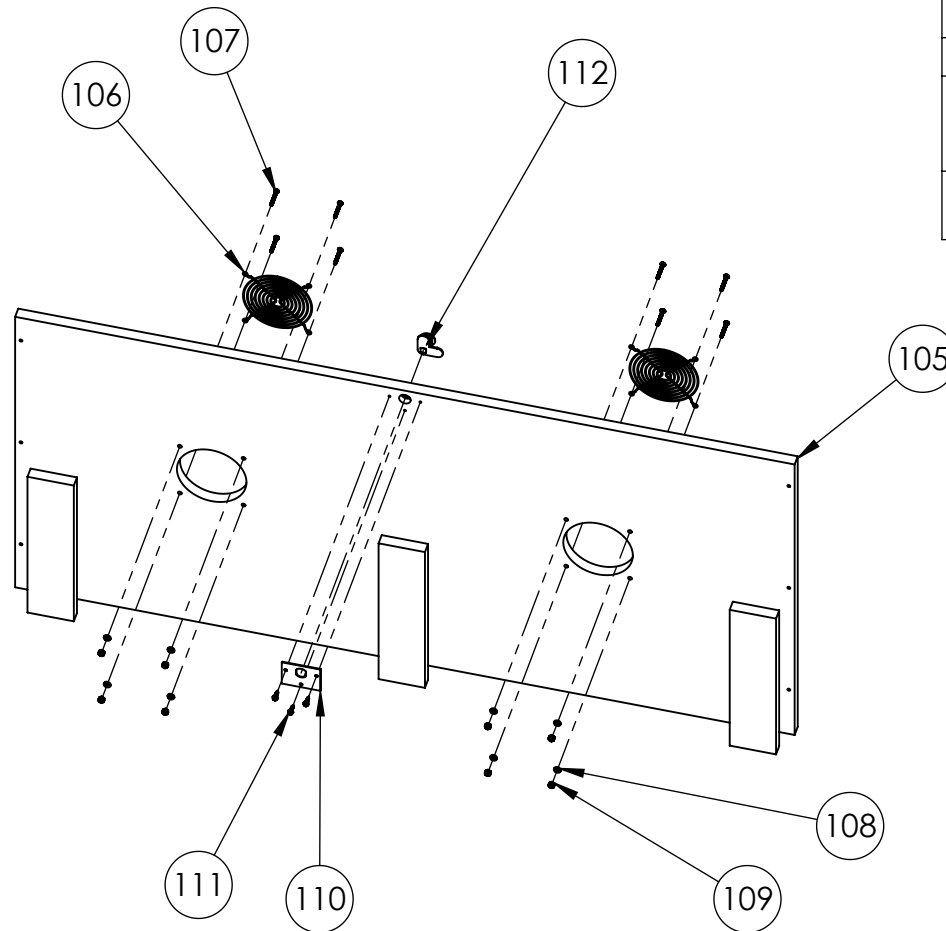


| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                                   | QTY. |
|----------|---------------------------|-----------------------------------------------------------------------------------------------|------|
| 92       | 608-00229-01              | Extended Card Dispenser Door Weldment                                                         | 1    |
| 93       | 606-01358-01              | Card Dispenser Decal                                                                          | 1    |
| 94       | 600-02073-01              | Card Dispenser Mounting Plate                                                                 | 1    |
| 95       | McMaster-Carr - 90640A129 | Low-Strength Steel Nylon-Insert Locknut, Zinc-Plated, 1/4"-20 Thread Size                     | 4    |
| 96       | 800-00067-00              | CD-1300 Card Dispenser w/ 340 Cassette                                                        | 1    |
| 97       | McMaster-Carr - 90317A526 | Stainless Steel Rounded Head Screws with External-Tooth Washer, M3 x 0.5 mm Thread, 8 mm Long | 4    |
| 98       | McMaster-Carr - 93825A110 | Steel Locknut with External-Tooth Lock Washer, Class 8, Zinc-Plated, M3 x 0.5 mm Thread       | 4    |
| 99       | 600-02061-01              | Card Dispenser Right Stop Bracket                                                             | 1    |
| 100      | 600-02062-01              | Card Dispenser Left Stop Bracket                                                              | 1    |
| 101      | McMaster-Carr - 90631A009 | Low-Strength Steel Nylon-Insert Locknut, Zinc-Plated, 8-32 Thread Size                        | 4    |
| 102      | 604-00036-01              | T-Handle Lock Assy                                                                            | 1    |
| 103      | McMaster-Carr - 92356A243 | 18-8 Stainless Steel Square-Neck Carriage Bolt, 10-24 Thread Size, 5/8" Long                  | 2    |
| 104      | McMaster-Carr - 90631A011 | Low-Strength Steel Nylon-Insert Locknut, Zinc-Plated, 10-24 Thread Size                       | 2    |

## Injustice Arcade (55") Card Dispenser Door Sub-Assembly



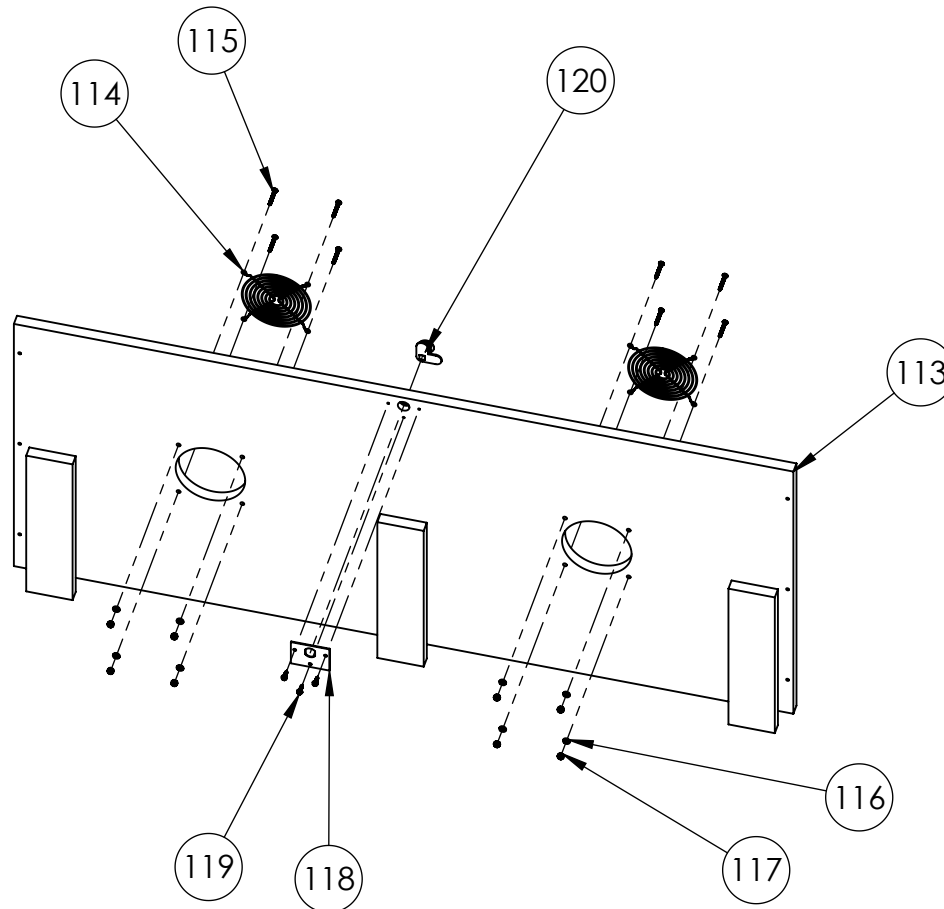
| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                          | QTY. |
|----------|---------------------------|--------------------------------------------------------------------------------------|------|
| 105      | 601-00808-01              | Lower Back Door                                                                      | 1    |
| 106      | 800-00001-00              | 120mm Wire Fan Guard                                                                 | 2    |
| 107      | McMaster-Carr - 90272A201 | Steel Phillips Rounded Head Screws, 8-32 Thread Size, 1-1/4" Long                    | 8    |
| 108      | McMaster-Carr - 90126A009 | Zinc-Plated Steel SAE Washer for Number 8 Screw Size, 0.188" ID, 0.438" OD           | 8    |
| 109      | McMaster-Carr - 90631A009 | Low-Strength Steel Nylon-Insert Locknut, Zinc-Plated, 8-32 Thread Size               | 8    |
| 110      | 600-00043-01              | Lock Retainer Plate                                                                  | 1    |
| 111      | McMaster-Carr - 90054A196 | Flanged Hex Head Screws for Sheet Metal, Zinc-Plated Steel, Number 8 Size, 5/8" Long | 3    |
| 112      | 150-00001-00              | Standard Door Lock Assembly (for 3/4" Panels)                                        | 1    |



## Injustice Arcade (55") Lower Back Door Sub-Assembly

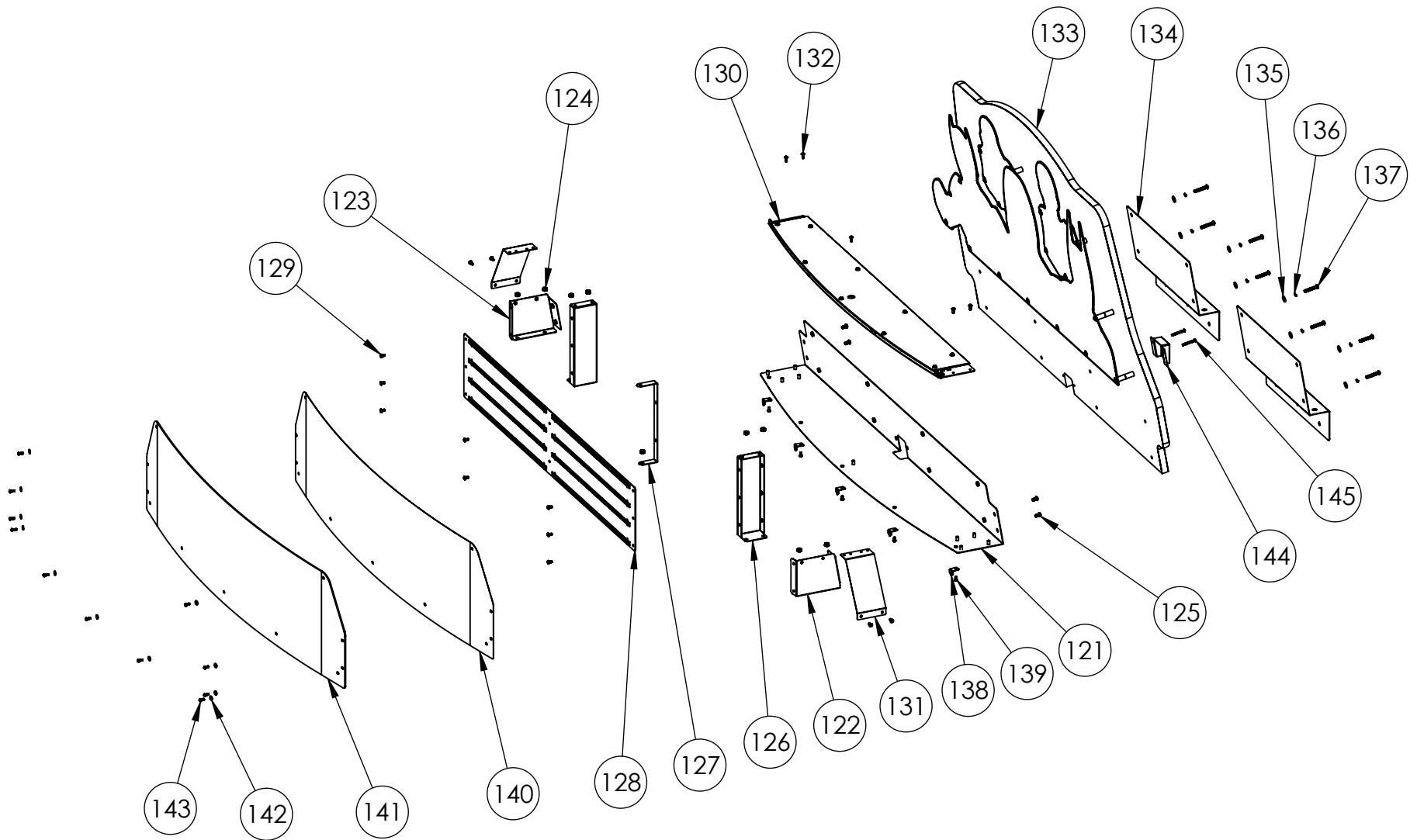


| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                          | QTY. |
|----------|---------------------------|--------------------------------------------------------------------------------------|------|
| 113      | 601-00809-01              | Upper Back Door                                                                      | 1    |
| 114      | 800-00001-00              | 120mm Wire Fan Guard                                                                 | 2    |
| 115      | McMaster-Carr - 90272A201 | Steel Phillips Rounded Head Screws, 8-32 Thread Size, 1-1/4" Long                    | 8    |
| 116      | McMaster-Carr - 90126A009 | Zinc-Plated Steel SAE Washer for Number 8 Screw Size, 0.188" ID, 0.438" OD           | 8    |
| 117      | McMaster-Carr - 90631A009 | Low-Strength Steel Nylon-Insert Locknut, Zinc-Plated, 8-32 Thread Size               | 8    |
| 118      | 600-00043-01              | Lock Retainer Plate                                                                  | 1    |
| 119      | McMaster-Carr - 90054A196 | Flanged Hex Head Screws for Sheet Metal, Zinc-Plated Steel, Number 8 Size, 5/8" Long | 3    |
| 120      | 150-00001-00              | Standard Door Lock Assembly (for 3/4" Panels)                                        | 1    |



Injustice Arcade (55")  
Upper Back Door Sub-Assembly





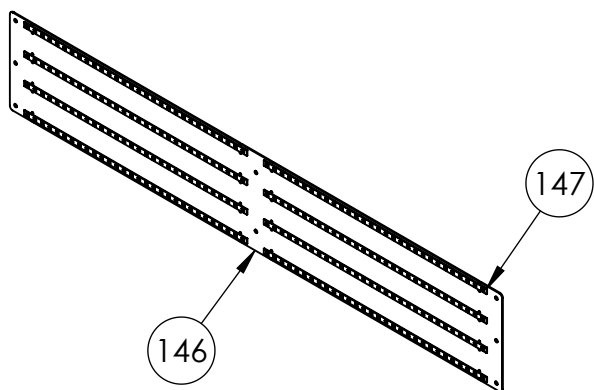
Injustice Arcade (55")  
Marquee Sub-Assembly  
(BOM on next page)





# Injustice Arcade (55") - Marquee Sub-Assembly: BOM

| ITEM NO. | PART NUMBER                              | DESCRIPTION                                                                                            | QTY. |
|----------|------------------------------------------|--------------------------------------------------------------------------------------------------------|------|
| 121      | 600-02067-01                             | Marquee Base Plate                                                                                     | 1    |
| 122      | 600-02065-01                             | Right Marquee Plate                                                                                    | 1    |
| 123      | 600-02066-01                             | Left Marquee Plate                                                                                     | 1    |
| 124      | McMaster-Carr - 90675A029                | Steel Locknut with External-Tooth Lock Washer, Zinc-Plated, 1/4"-20 Thread Size                        | 9    |
| 125      | McMaster-Carr - 96075A211                | Black-Oxide Alloy Steel Tamper-Resistant Torx Rounded Head Screws, 1/4"-20 Thread Size, 1/2" Long      | 4    |
| 126      | 600-02082-01                             | Marquee LED Support Bracket                                                                            | 2    |
| 127      | 600-02086-01                             | Marquee LED Center Support Bracket                                                                     | 1    |
| 128      | Injustice_55_Marquee_Logo_Backlight_Assy | Logo Marquee LED Sub-Assembly                                                                          | 1    |
| 129      | McMaster-Carr - 90272A827                | Steel Phillips Rounded Head Screws, 10-32 Thread Size, 3/8" Long                                       | 8    |
| 130      | Injustice_55_Marquee_Light_Panel_Assy    | Uplighting Marquee LED Sub-Assembly                                                                    | 1    |
| 131      | 600-02088-01                             | Marquee Side Cap Plate                                                                                 | 2    |
| 132      | McMaster-Carr - 94779A580                | 18-8 Stainless Steel Phillips Extra-Wide Rounded Head Screws, Black-Oxide, 8-32 Thread Size, 1/2" Long | 9    |
| 133      | Injustice_55_Marquee_Backboard_Assy      | Character Backboard Assembly                                                                           | 1    |
| 134      | 600-02087-01                             | Marquee Mounting Bracket                                                                               | 2    |
| 135      | McMaster-Carr - 97416A119                | Black-Oxide Steel SAE Flat Washer for 1/4" Screw Size, 0.281" ID, 0.625" OD                            | 8    |
| 136      | McMaster-Carr - 93711A500                | Black-Oxide 18-8 Stainless Steel Split Lock Washer for 1/4" Socket Head Screws, 0.26" ID, 0.363" OD    | 8    |
| 137      | McMaster-Carr - 96075A231                | Black-Oxide Alloy Steel Tamper-Resistant Torx Rounded Head Screws, 1/4"-20 Thread Size, 1-1/2" Long    | 8    |
| 138      | 600-01434-01                             | Marquee Top/Bottom Bracket                                                                             | 5    |
| 139      | McMaster-Carr - 90316A192                | Stainless Steel Flanged Hex Head Screws with Slotted Drive, 8-32 Thread Size, 3/8" Long                | 5    |
| 140      | 606-01364-01                             | Marquee Translite                                                                                      | 1    |
| 141      | 600-02085-01                             | Marquee Lens PETG                                                                                      | 1    |
| 142      | McMaster-Carr - 97416A113                | Black-Oxide Steel SAE Washer for Number 8 Screw Size, 0.188" ID, 0.438" OD                             | 11   |
| 143      | McMaster-Carr - 96075A139                | Black-Oxide Alloy Steel Tamper-Resistant Torx Rounded Head Screws, 8-32 Thread Size, 1/2" Long         | 11   |
| 144      | 600-02089-01                             | Marquee Harness Plate                                                                                  | 1    |
| 145      | McMaster-Carr - 96075A155                | Black-Oxide Alloy Steel Tamper-Resistant Torx Rounded Head Screws, 8-32 Thread Size, 1-1/2" Long       | 2    |

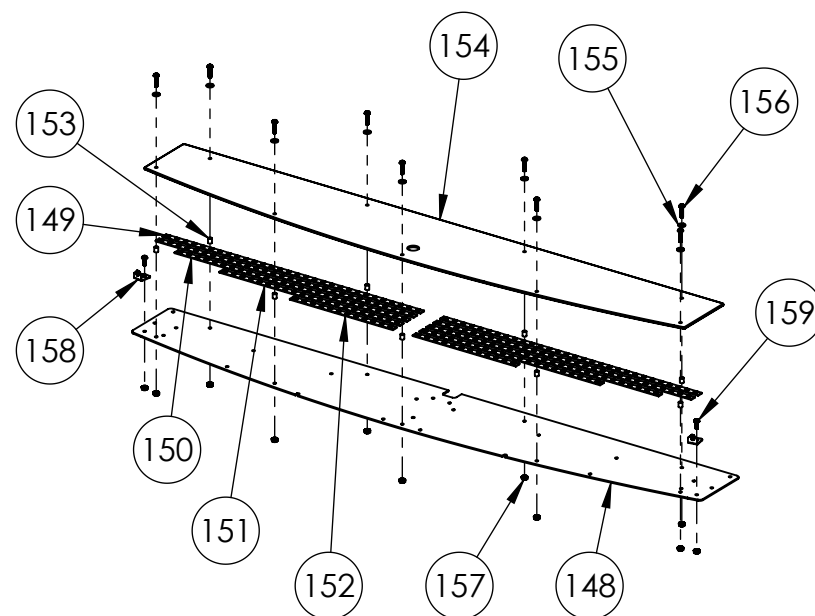


| ITEM NO. | PART NUMBER          | DESCRIPTION                      | QTY. |
|----------|----------------------|----------------------------------|------|
| 146      | 600-02081-01         | Logo LED Panel                   | 1    |
| 147      | 500-00162-01 (50 CM) | White Flexible LED Tape, w/ FOAM | 8    |

## Injustice Arcade (55") Logo Marquee LED Sub-Assembly

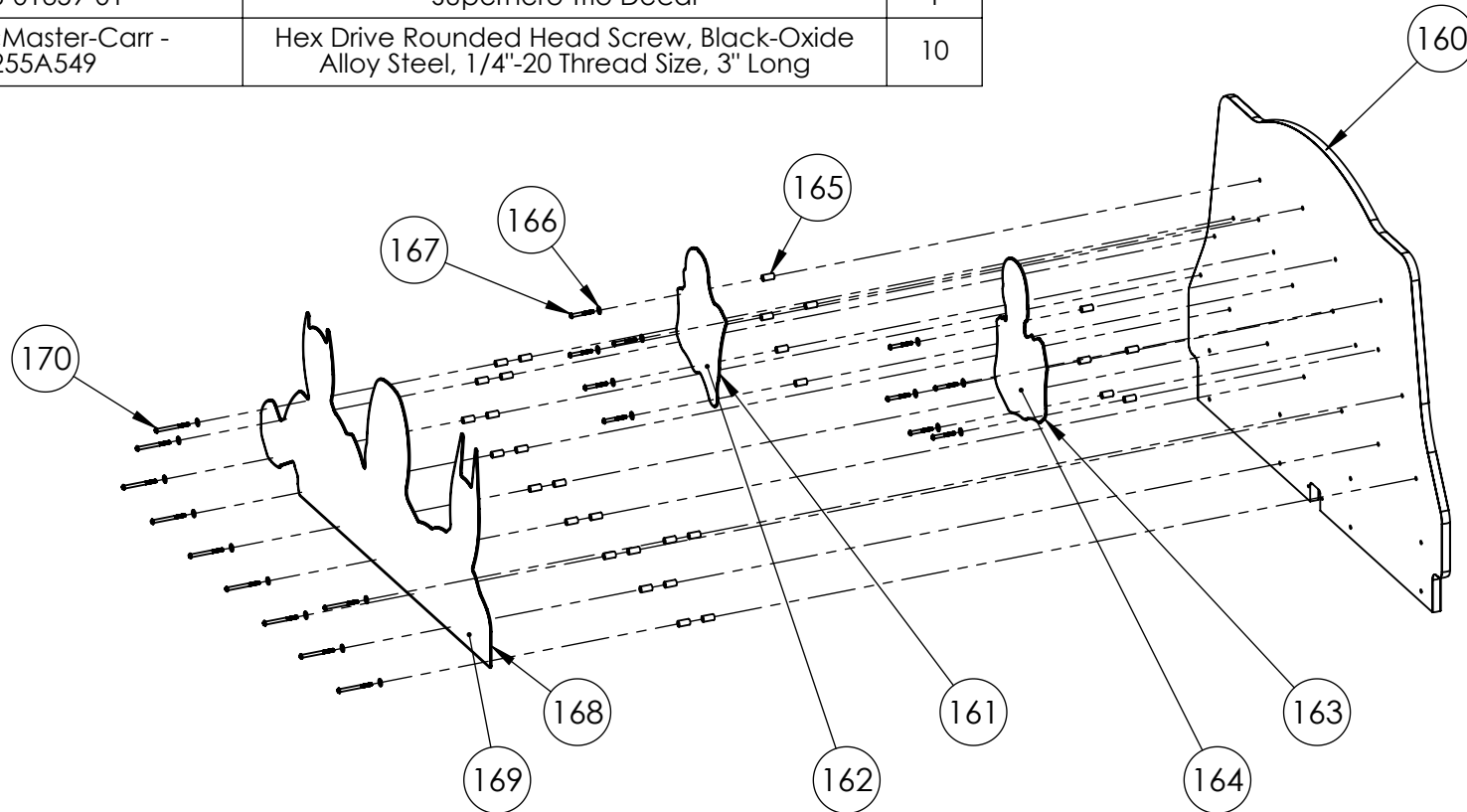


| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                                | QTY. |
|----------|---------------------------|--------------------------------------------------------------------------------------------|------|
| 148      | 600-02083-01              | Marquee LED Panel                                                                          | 1    |
| 149      | 500-00162-01 (50 CM)      | White Flexible LED Tape, w/ FOAM                                                           | 4    |
| 150      | 500-00162-01 (45 CM)      | White Flexible LED Tape, w/ FOAM                                                           | 2    |
| 151      | 500-00162-01 (35 CM)      | White Flexible LED Tape, w/ FOAM                                                           | 2    |
| 152      | 500-00162-01 (20 CM)      | White Flexible LED Tape, w/ FOAM                                                           | 2    |
| 153      | McMaster-Carr - 94639A289 | Nylon Unthreaded Spacers, 1/4" OD, 5/16" Length, for Number 8 Screw Size                   | 9    |
| 154      | 600-02084-01              | Marquee LED Lens PETG                                                                      | 1    |
| 155      | McMaster-Carr - 90126A009 | Zinc-Plated Steel SAE Washer for Number 8 Screw Size, 0.188" ID, 0.438" OD                 | 9    |
| 156      | McMaster-Carr - 90316A197 | Stainless Steel Flanged Hex Head Screws with Slotted Drive, 8-32 Thread Size, 3/4" Long    | 9    |
| 157      | McMaster-Carr - 90675A009 | Steel Locknut with External-Tooth Lock Washer, Zinc-Plated, 8-32 Thread Size, 1 1/32" Wide | 11   |
| 158      | 600-01434-01              | Marquee Top/Bottom Bracket                                                                 | 2    |
| 159      | McMaster-Carr - 90316A194 | Stainless Steel Flanged Hex Head Screws with Slotted Drive, 8-32 Thread Size, 1/2" Long    | 2    |



## Injustice Arcade (55") Uplighting Marquee LED Sub-Assembly

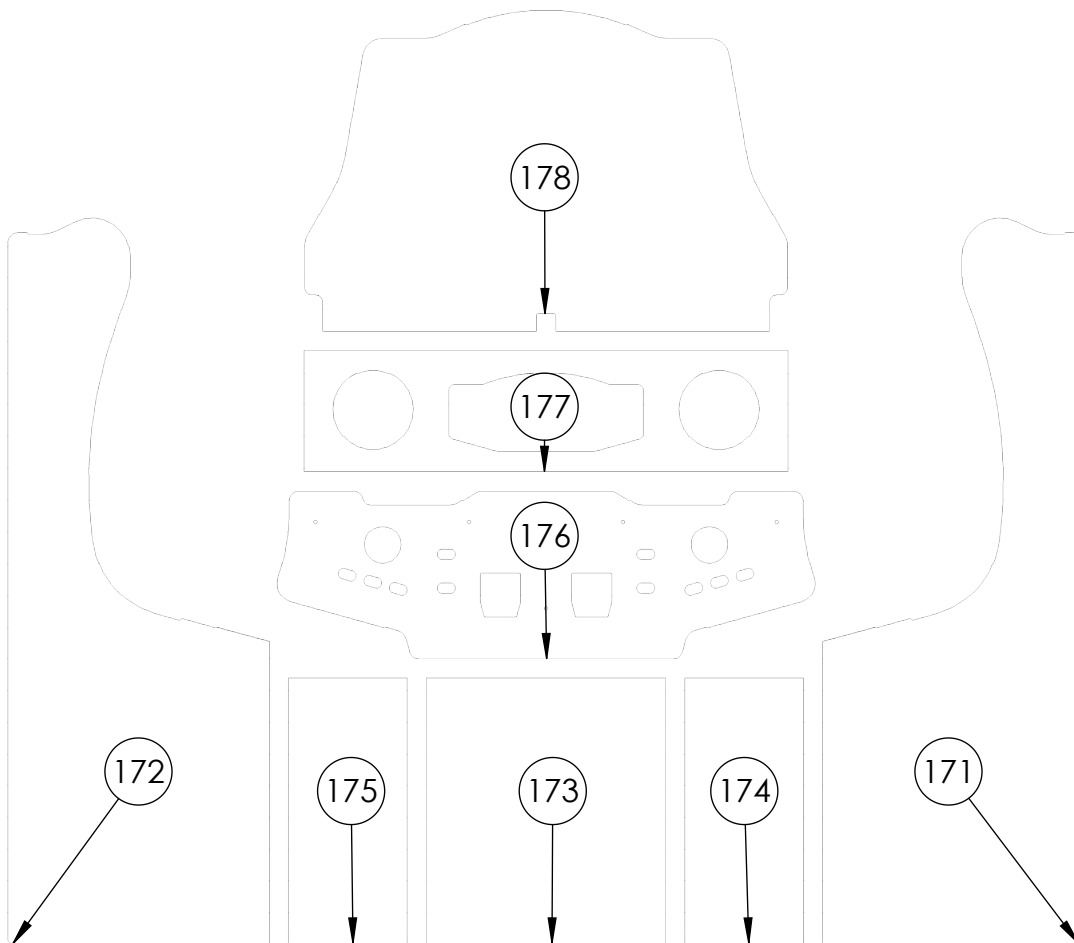
| ITEM NO. | PART NUMBER               | DESCRIPTION                                                                         | QTY. |
|----------|---------------------------|-------------------------------------------------------------------------------------|------|
| 160      | 601-00812-01              | Marquee Panel                                                                       | 1    |
| 161      | 600-02075-01              | Cyborg Panel                                                                        | 1    |
| 162      | 606-01360-01              | Cyborg Decal                                                                        | 1    |
| 163      | 600-02076-01              | Aquaman Panel                                                                       | 1    |
| 164      | 606-01361-01              | Aquaman Decal                                                                       | 1    |
| 165      | McMaster-Carr - 94639A506 | Nylon Unthreaded Spacers, 1/2" OD, 1" Length, for 1/4" Screw Size                   | 30   |
| 166      | McMaster-Carr - 97416A119 | Black-Oxide Steel SAE Flat Washer for 1/4" Screw Size, 0.281" ID, 0.625" OD         | 20   |
| 167      | McMaster-Carr - 91255A545 | Hex Drive Rounded Head Screw, Black-Oxide Alloy Steel, 1/4"-20 Thread Size, 2" Long | 10   |
| 168      | 600-02074-01              | Superhero Trio Panel                                                                | 1    |
| 169      | 606-01359-01              | Superhero Trio Decal                                                                | 1    |
| 170      | McMaster-Carr - 91255A549 | Hex Drive Rounded Head Screw, Black-Oxide Alloy Steel, 1/4"-20 Thread Size, 3" Long | 10   |



Injustice Arcade (55")  
Character Backboard Assembly



| ITEM NO. | PART NUMBER  | DESCRIPTION              | QTY. |
|----------|--------------|--------------------------|------|
| 171      | 606-01352-01 | Right Side Panel Decal   | 1    |
| 172      | 606-01353-01 | Left Side Panel Decal    | 1    |
| 173      | 606-01354-01 | Front Panel Decal        | 1    |
| 174      | 606-01355-01 | Front Right Decal        | 1    |
| 175      | 606-01356-01 | Front Left Decal         | 1    |
| 176      | 606-01362-01 | Control Panel Decal      | 1    |
| 177      | 606-01363-01 | Speaker Panel Decal      | 1    |
| 178      | 606-01357-01 | Marquee Background Decal | 1    |



Injustice Arcade (55")  
Cabinet Decals



