# THE WALKING DEAD

## amc

Setup and Operation
Service Manual

Revision TWD-1.1-7.11-1

# Table of Contents

# Safety

## OPERATION

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

## TRANSPORTING

Cabinet is very heavy and contains fragile components. Use appropriate care when moving or transporting cabinet. 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 off power 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

Extremely high voltages exist in the monitor at all times. These high voltages exist even when the monitor is off and the AC line cord is disconnected. These voltages are extremely lethal and will cause death. 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 is set properly. There is a 115/230 VAC selector switch that must be set for the correct voltage for your site. Verify the fluorescent lamp rating. The rating must match the line voltage at the installation site.

## CONNECTORS

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.

## 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.

## WATER JETS

Do not install or operate game within operating perimeter of a water jet. Do not clean equipment using water jet.

## HAZARD TO EPILEPTICS

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

## MANUAL

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

## SPECIFICATIONS

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

# Product Specifications

**Electrical Power**

| | | |
|---|---|---|
| Domestic | 120 VAC @ 60 Hz, 5 amps |
| International | 240 VAC @ 50 Hz, 2.5 amps |
| Japan | 100 VAC @ 50 Hz, 5 amps |

**ELECTICAL SAFETY NOTICE**

REPLACE FUSE WITH SPECIFIED FUSE RATING ONLY.
DO NOT REPLACE FUSE WITH HIGHER THAN SPECIFIED RATING.

**RIO PCB Fuse Guide**

+5 VDC - 3 amp Slow Blow (RIO MCU, START BUTTON)
+12 VDC - 5 amp Slow Blow (COIN DOOR, COOLING FANS, DASH LED)
*+12 VDC - AUDIO POWER USES A THERMAL FUSE, RIO F3

**Cabinet Fuse Guide**

(NOTE: FUSES ARE MOUNTED TO THE LEFT OF THE RIO PCB. F1 IS LOCATED CLOSEST RIO PCB)
F1 - P2 DASH LED, FANS , 5 amp Slow Blow
F2 - P1 DASH LED, MARQUEE, 5 amp Slow Blow
F3 - P2 BOW LED, MARQUEE, 5 amp Slow Blow
F4 - P1 BOW LED, MARQUEE,  5 amp Slow Blow
F5 - MARQUEE, MARQUEE, 5 amp Slow Blow
F6 - BENCH RGB LED T-MOLD, REAR CAB LIGHTING, 5 amp Slow Blow

**Temperature**

32° to 100° Fahrenheit (0° to 38° Celsius)

**Humidity**

Must not exceed 95% relative humidity

**Cabinet Dimensions**

| Component | Height | Width | Depth |
|---|---|---|---|
| Assembled Cabinet | 100" (254cm) | 53.5" (136cm) | 85" (216cm) |
| Seat Assembly | 80" (203cm) | 53.5" (136cm) | 33" (84cm) |
| Monitor Assembly | 76" (193cm) | 53.5" (136cm) | 34" (86cm) |

# Setup

## Unpack Carton

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 container surrounding the cabinet and any shipping cleats.
4. With at least two people and a dolly, remove the cabinet from the shipping pallet.
5. Remove the coin door key from the coin return chute.
6. Open the top coin door.
7. Locate the key for the bottom access panel and the cash box.

## Setup Cabinet Components

1. Using a wheeled cart and at least one assistant, transport the cabinet to a suitable playing area.
2. Ensure the main cabinet is level and stable.  *With at least one assistant, adjust the leg levelers.*
3. Check the AC line cord for visible signs of damage.
   *Pay particular attention to the plug and line cord insulation.*
4. Check for shipping damage to the following:
   Cabinet Marquee, Cabinet back door, Cabinet coin door, Cabinet decals, Monitor

## Install Floor Assembly

1. Locate the mounting brackets and parts bag inside the floor assembly.

![WALKING DEAD amc logo]
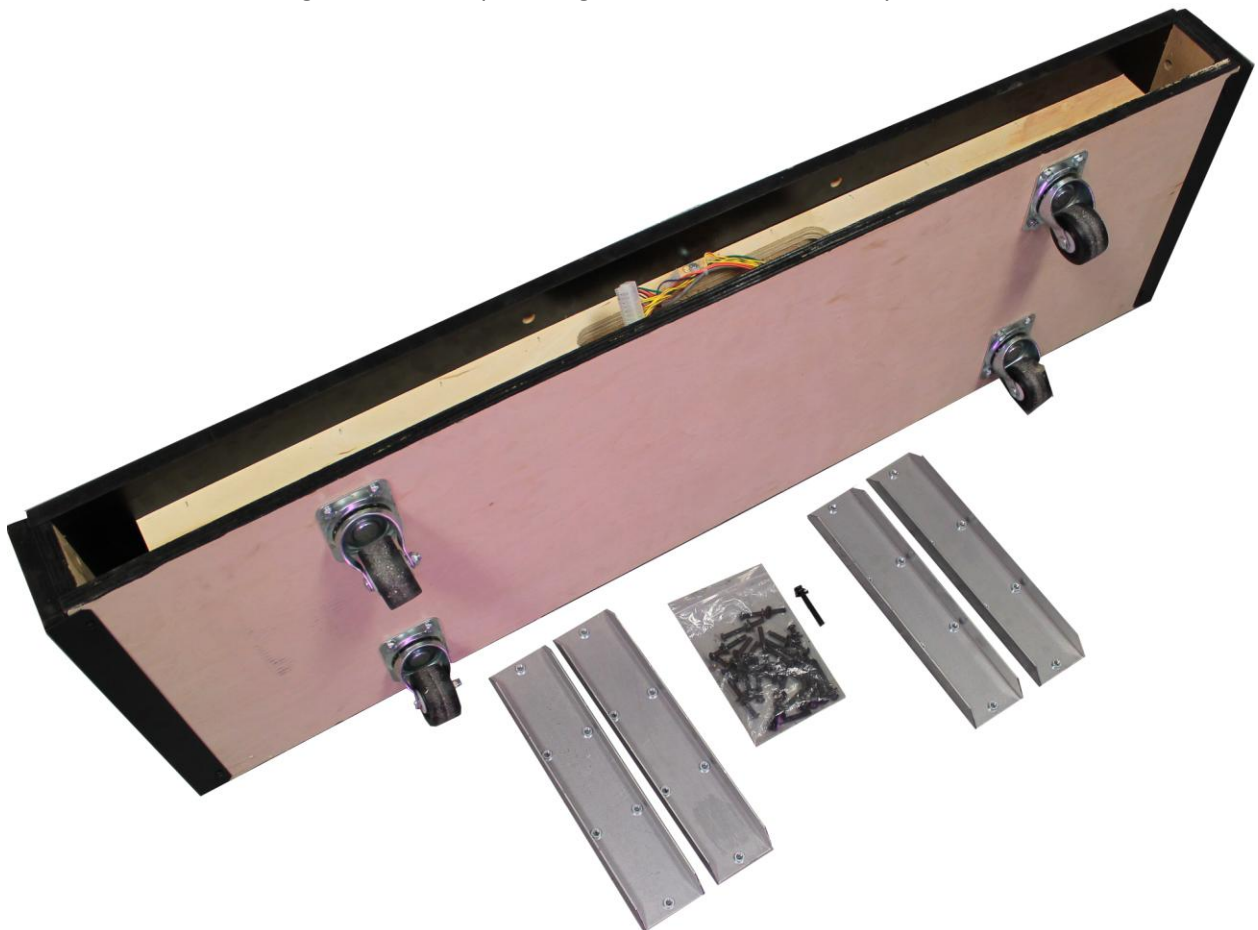
2. Attach brackets to Monitor Assembly with three ¼ -20 x 2" T-27 Torx screws.
   (*do not fully tighten screws*)
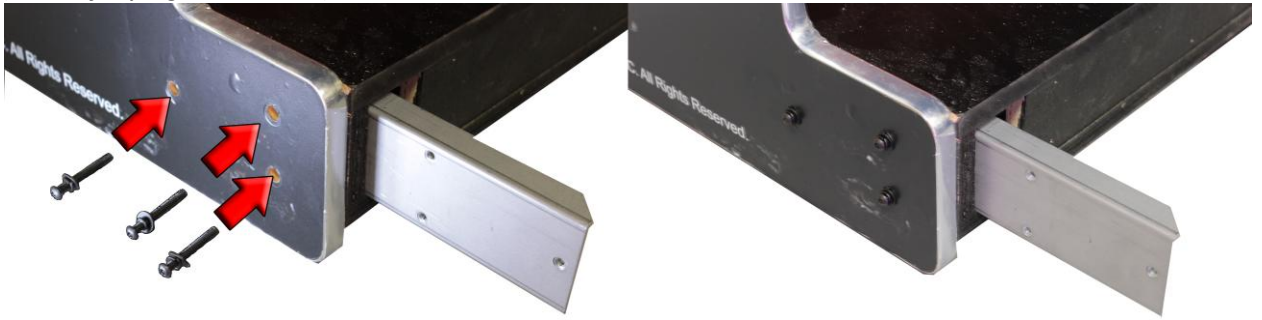


3. Connect cables from Monitor Assembly to Floor Assembly.
   *Be careful not to pinch the cables when sliding Floor Assembly into Monitor Assembly .*
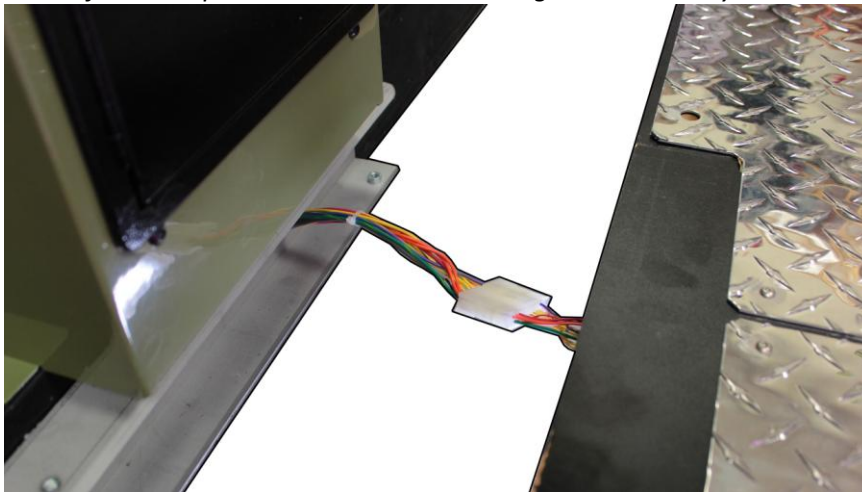


4. Attach Floor Assembly to Monitor Assembly with three ¼ -20 x 2" T-27 Torx screws.
   (*do not fully tighten screws*)



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5.  Attach brackets to Floor Assembly with three ¼ -20 x 2" T-27 Torx screws.
    (*do not fully tighten screws*)



6.  Connect cables from Seat Assembly to Floor Assembly
    *Be careful not to pinch the cables when sliding Floor Assembly into Seat Assembly .*
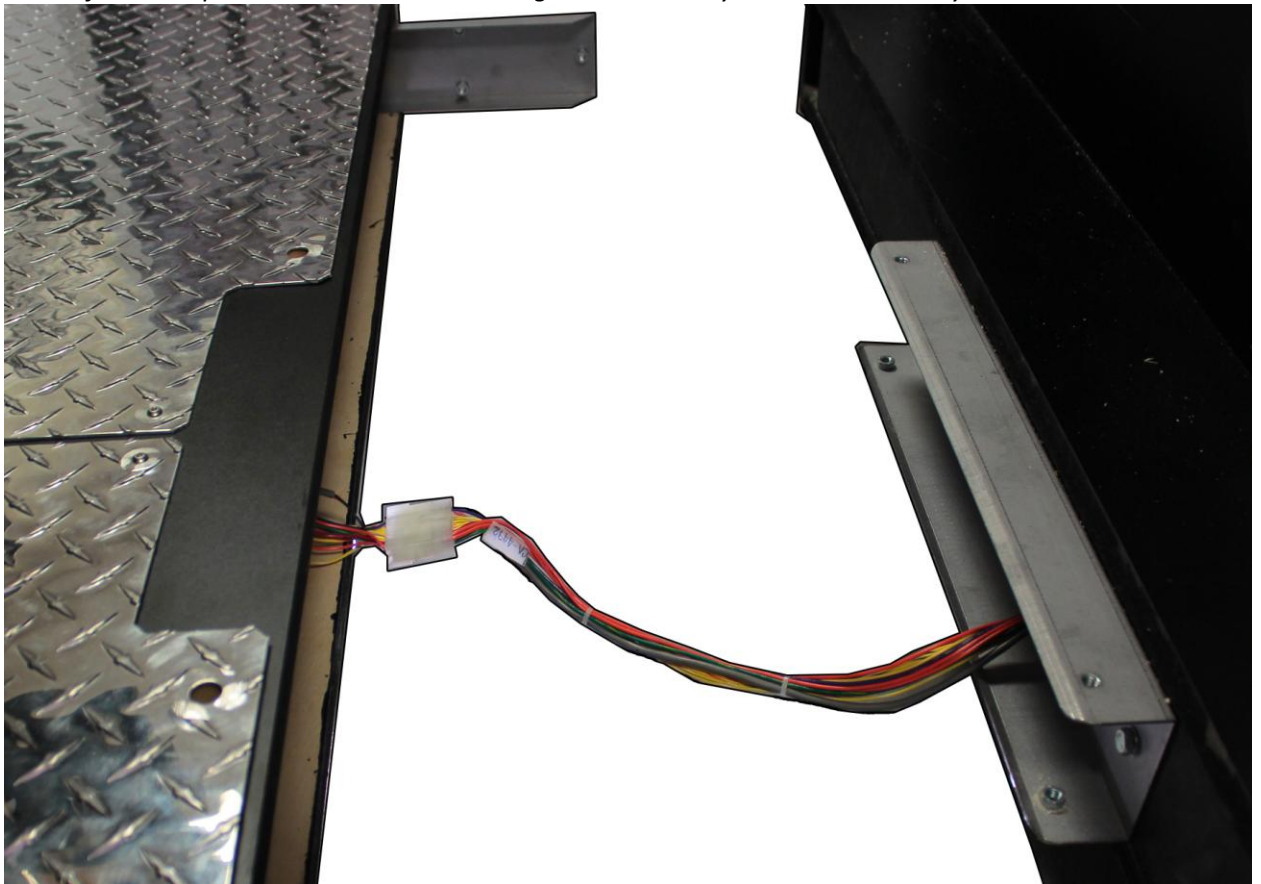
7. Attach Floor Assembly to Seat Assembly with three ¼ -20 x 2" T-27 Torx screws.
(*do not fully tighten screws*)



8. Fully tighten all ¼ -20 x 2" T-27 Torx screws; there are 12 screws per side.
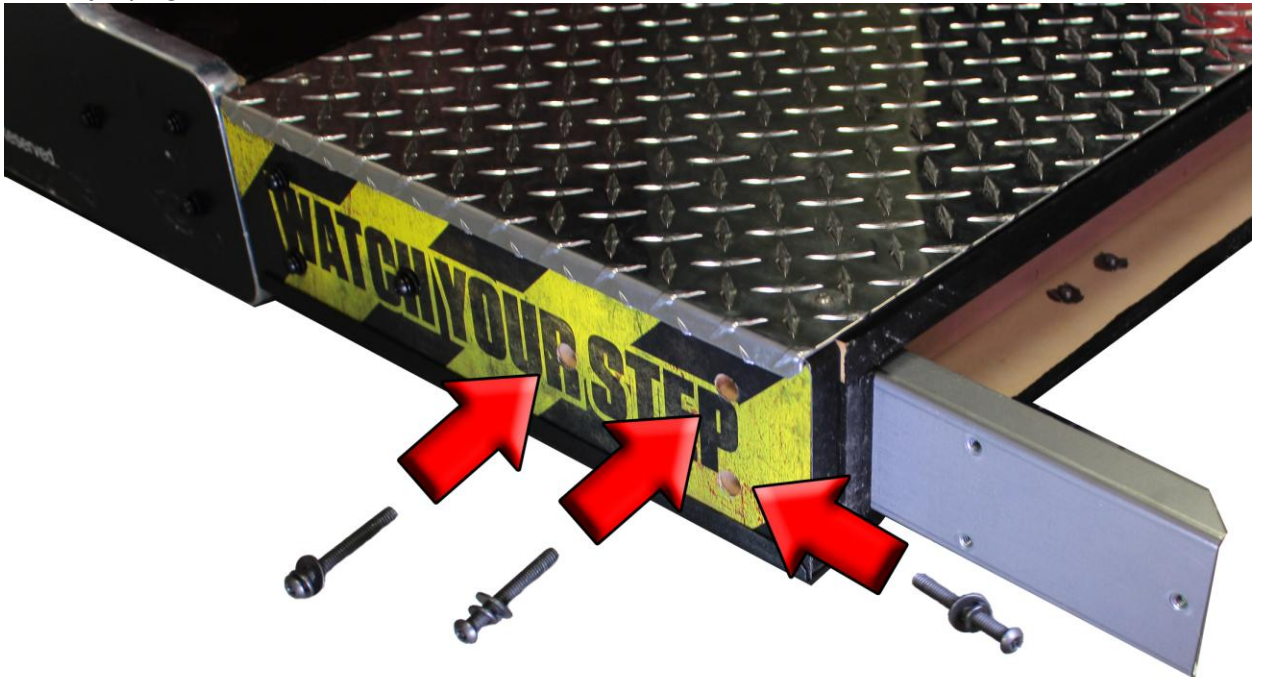
9.   Secure floor assembly with four ¼ -20 x 2" T-27 Torx screws with washers.
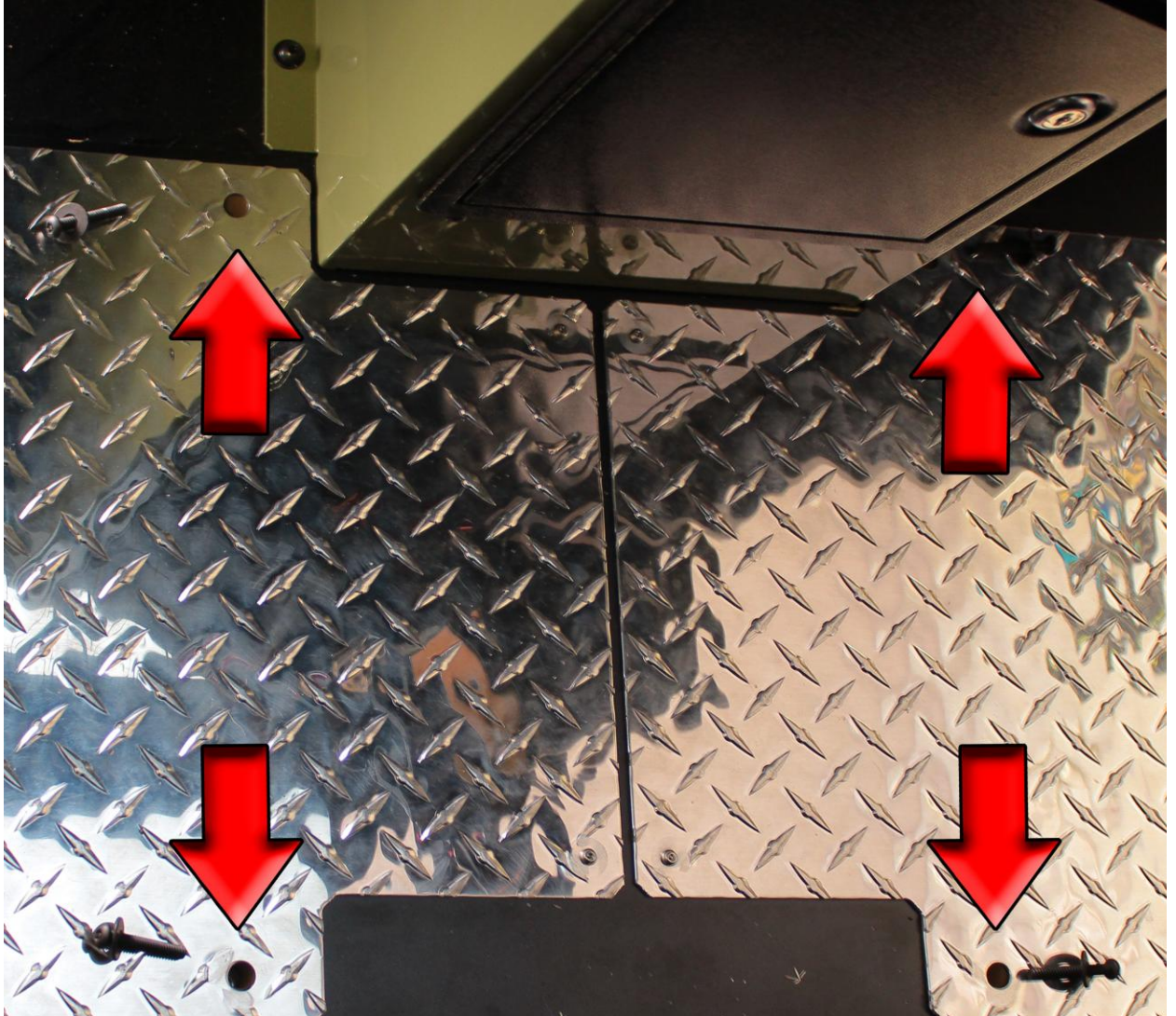
## Install Cabinet Roof Assembly

1. Locate Cabinet Roof Assembly and six roof assembly bolts with washers.



2. Lift and position Cabinet Roof Assembly on top of Main Cabinet Assembly

   *Be sure cable connection is directed toward the Monitor Assembly*



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3.  Connect cable from Monitor Assembly to Roof Assembly
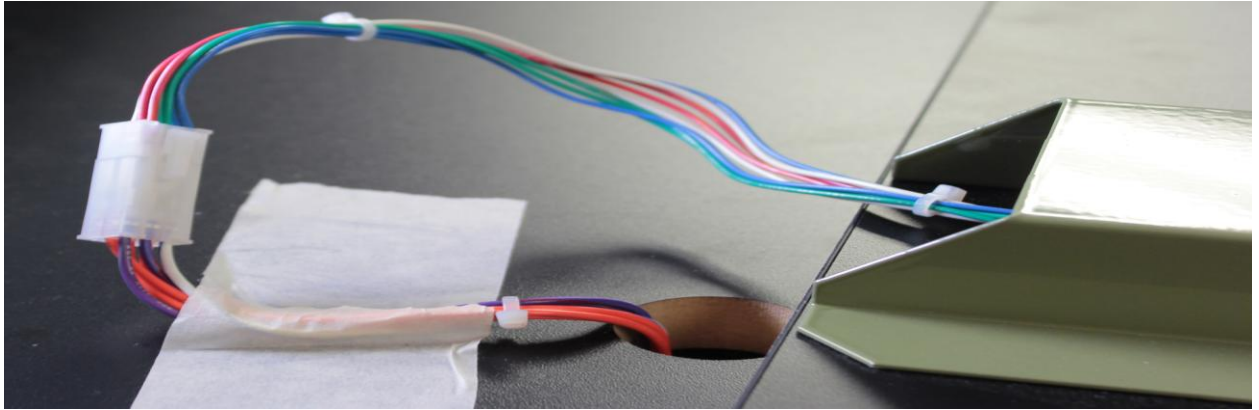


4.  Secure Roof Assembly to Seat Assembly and Monitor Assembly with six ¼ -20 x 2" T-27 security Torx screws and washers.
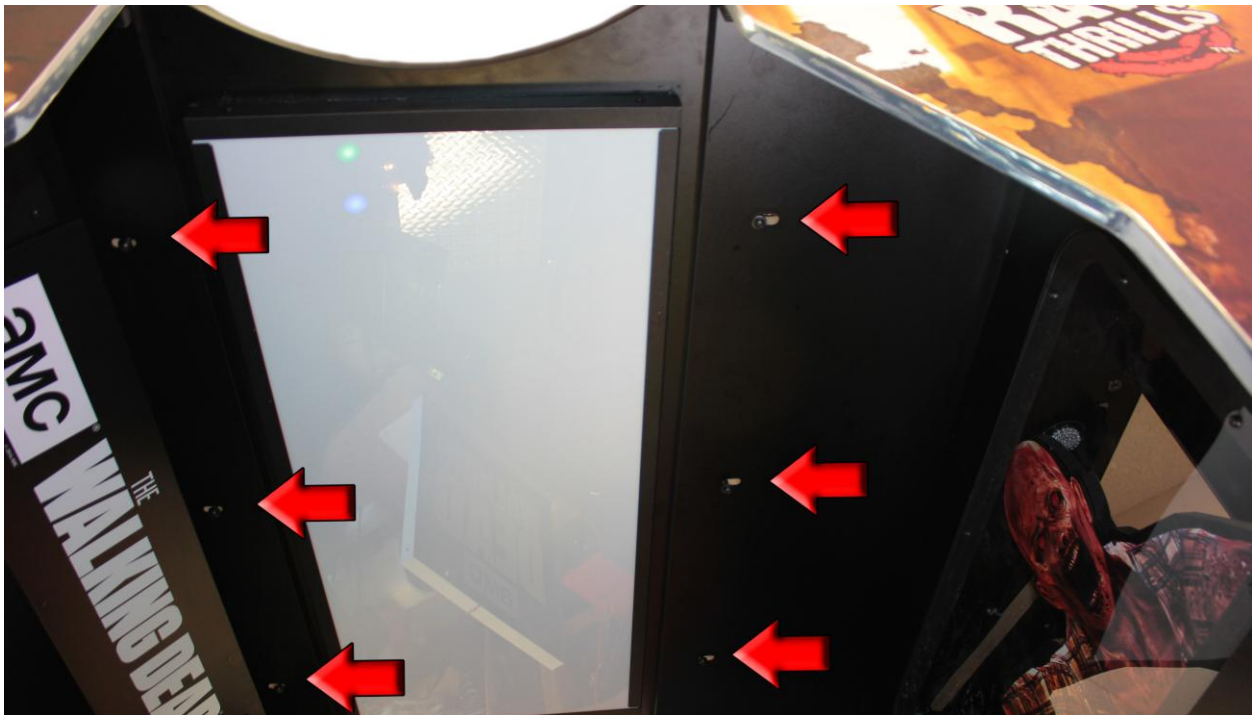
## Assemble Marquee Topper

1. Locate marquee and monitor assembly mounting bracket parts.



2. Assemble monitor assembly mounting bracket, using four ¼-20 x .5" Phillips head screws.



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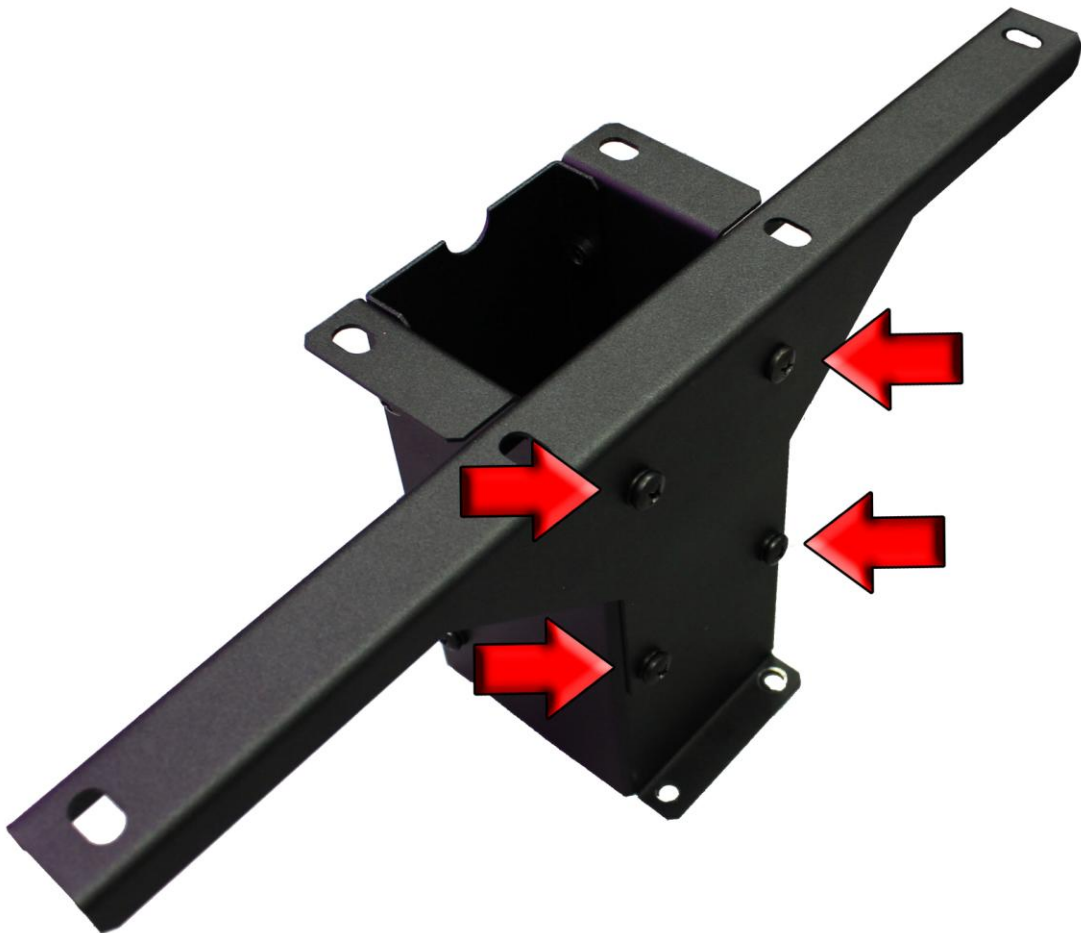
3.  Secure monitor assembly mounting bracket to marquee, using four ¼-20 x .5" Phillips head screws.  Two of these screws are located on the interior of the mounting bracket. Be careful not to pinch the power cable.
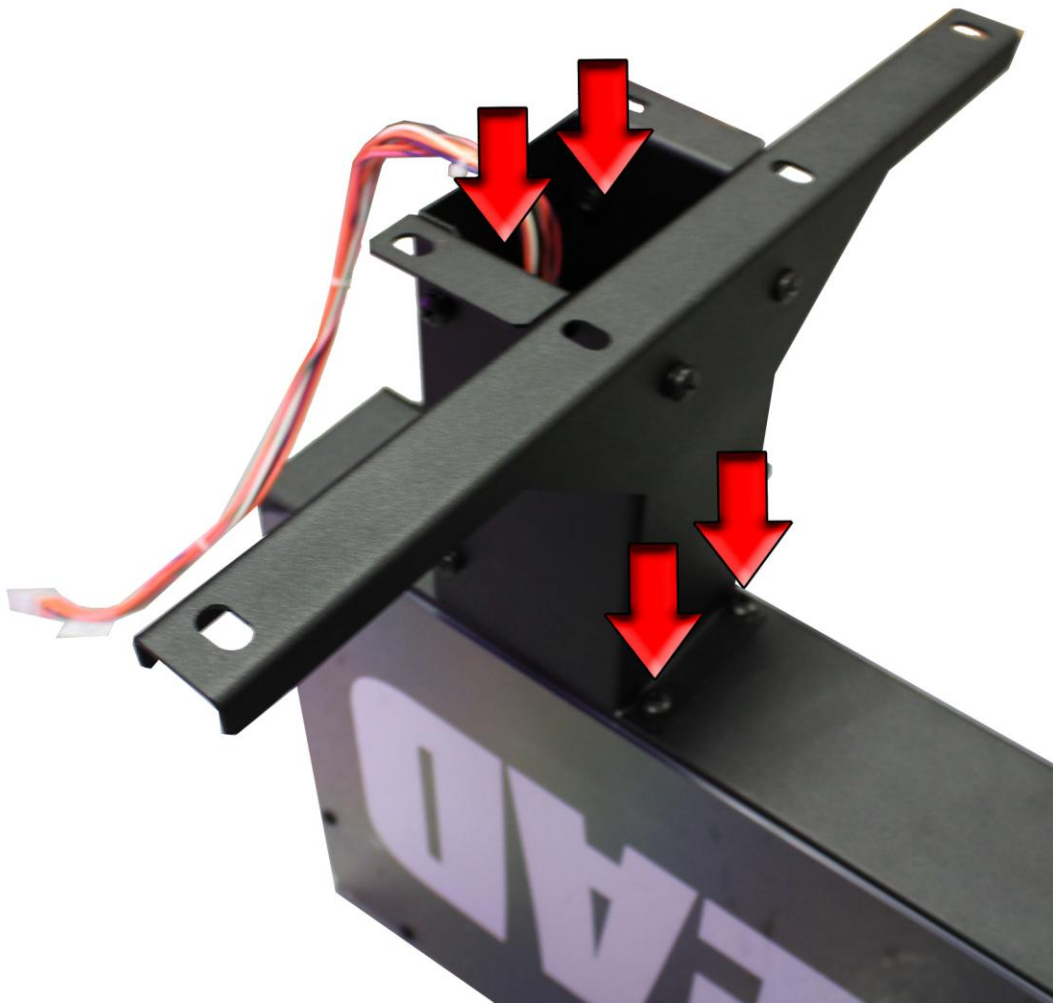


4.  Secure seat assembly mounting bracket to marquee using 4 ¼-20 x .5" Phillips head screws.

## Install Marquee Topper

1. Locate Main Marquee Assembly, Rear Marquee Assembly, and associated parts bag.



2. With an assistant, position the Main Marquee Assembly on top of the cabinet.
3. Connect and route the power cable from the Monitor Assembly to the Main Marquee Assembly.

    *Be careful not to pinch the cable between the topper and cabinet.*
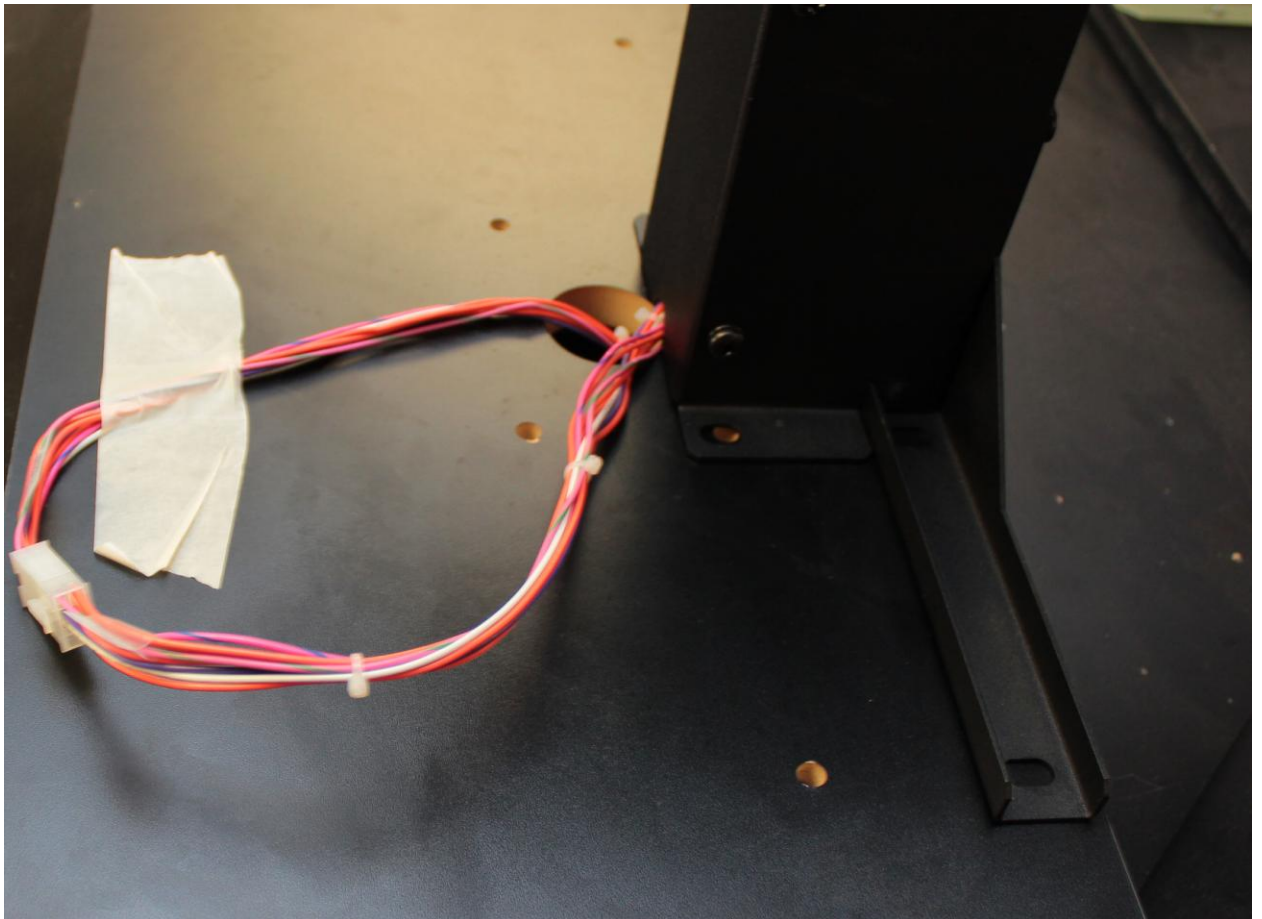
4.  Attach Main Marquee Assembly to Monitor Assembly using six ¼-20 x 1.5" hexhead screws.
    (*do not fully tighten screws*)
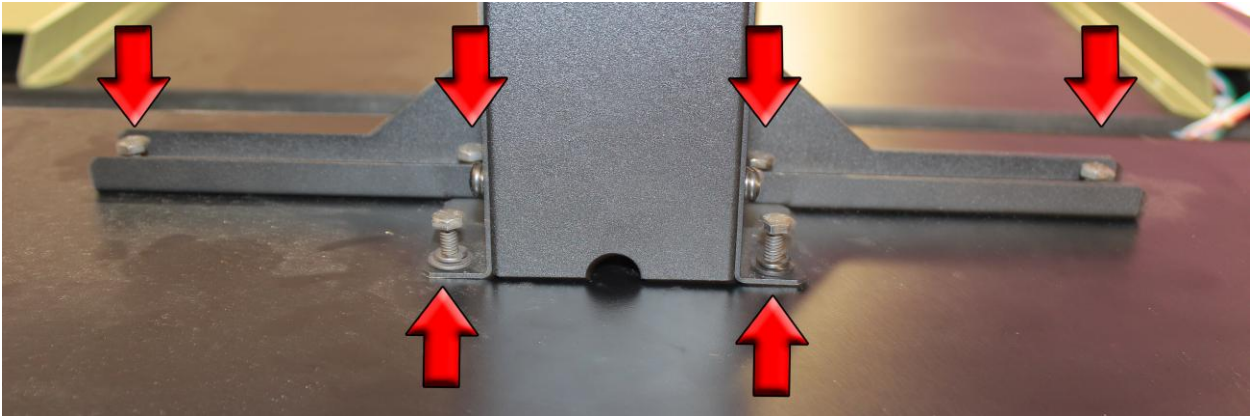


5.  Attach Main Marquee Assembly to Seat Assembly using two ¼-20 x 1.5" hexhead screws.
    (*do not fully tighten screws*)
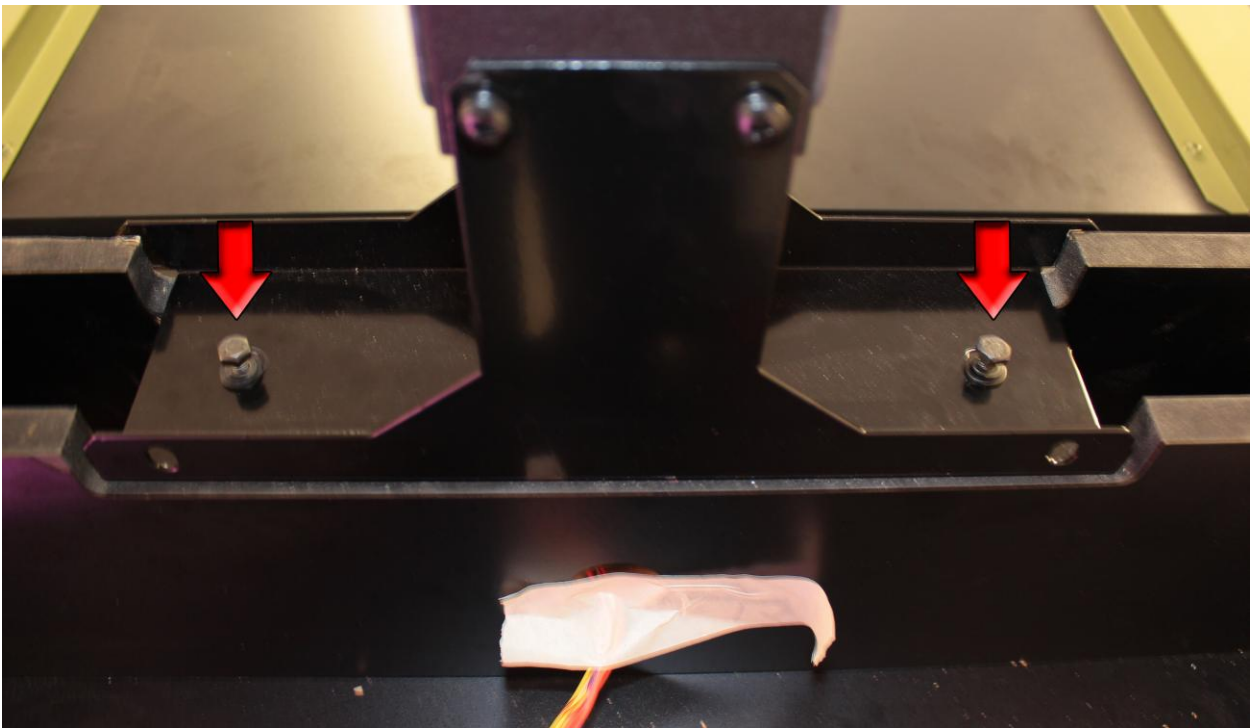
6. Connect and route the power cable from the Seat Assembly to the Rear Marquee Assembly.

   *Be careful not to pinch the cable between the topper and cabinet.*



7. Hook Rear Marquee Assembly to Main Marquee Assembly

8.  Secure Rear Marquee Assembly to Main Marquee Assembly using four screws.



9.  Fully tighten all Marquee Topper screws.

## Install Razor Wire

1. Locate the left and right Rear Razor Wire assemblies.
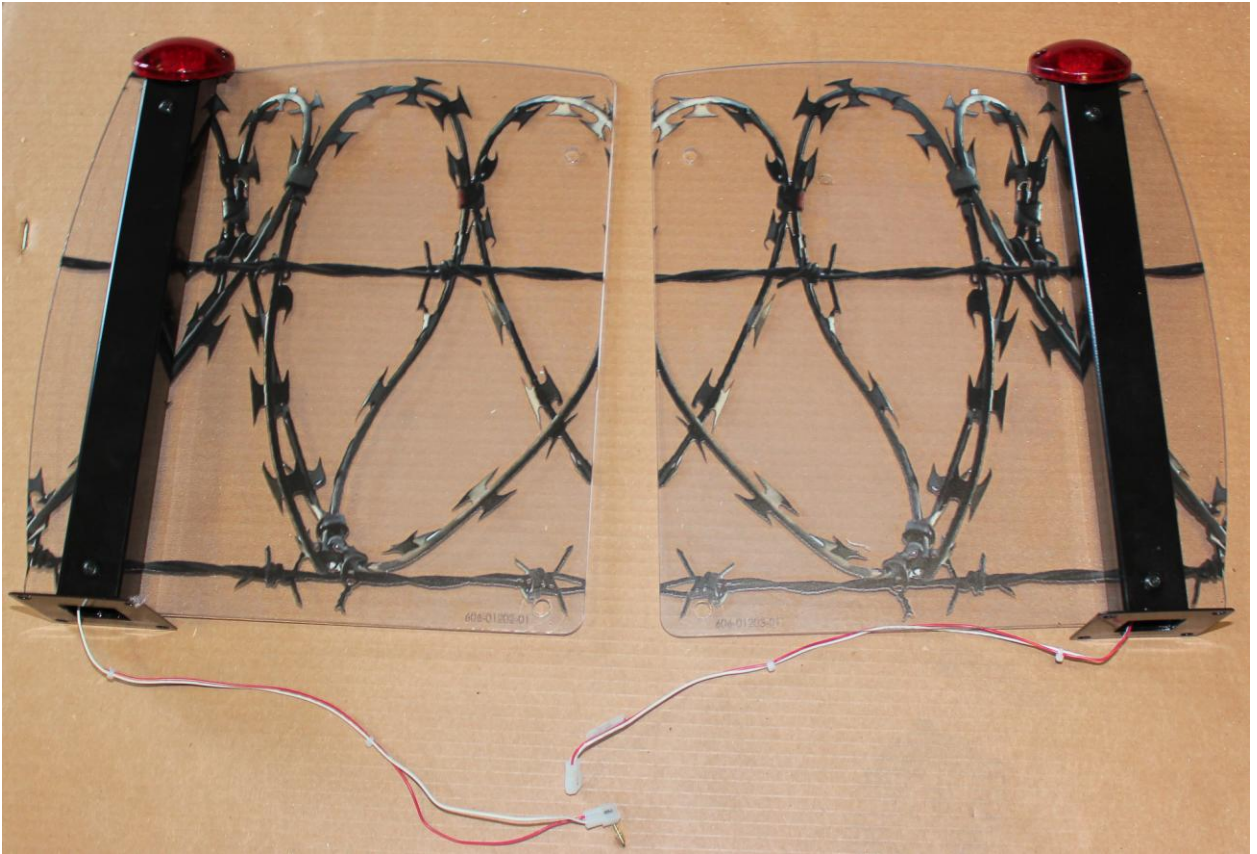


2. Connect cables from Rear Razor assemblies to the Seat Assembly.

   *Be careful not to pinch the cables between the assembly and the cabinet.*



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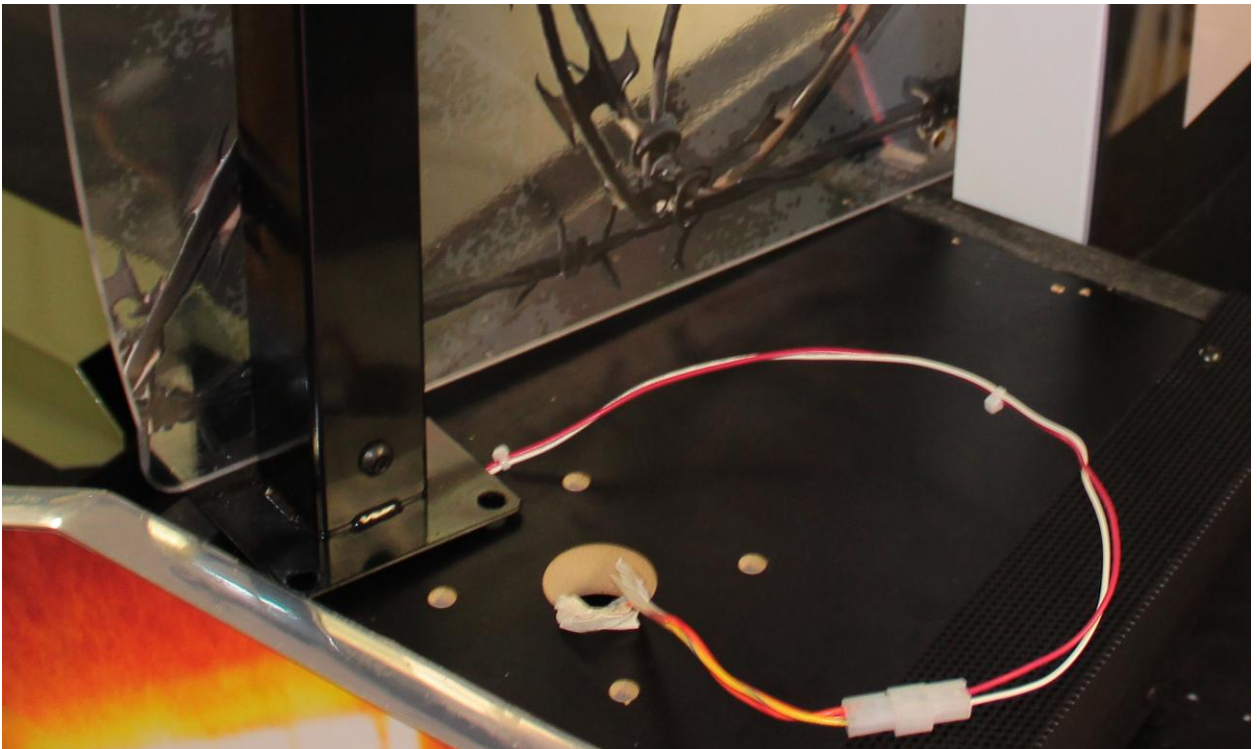
3. Secure each Razor Wire Assembly to Seat Assembly and Rear Marquee Assembly with six screws and washers. *Be sure to fully tighten all screws.*
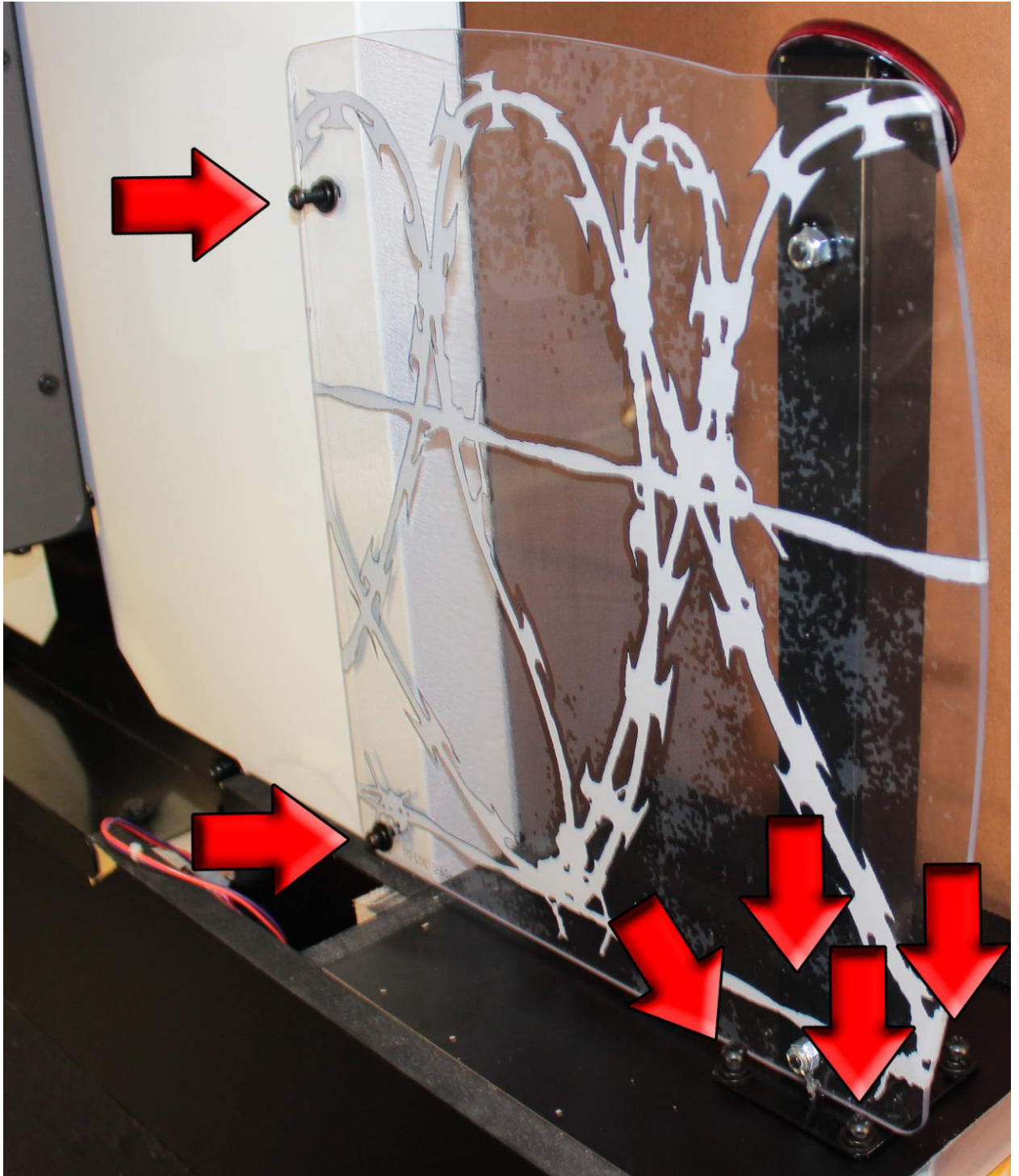
4. Secure left and right Front Razor Wire assemblies to the Monitor Assembly with five screws and washers. *Be sure to fully tighten all screws.*



## Verify Cabinet Functionality

1. Verify the voltage in the nearest AC outlet.
2. Verify the AC outlet ground connection is present and working.
3. Open the back door of the cabinet.
4. Near the AC power transformer, verify the voltage selector switch is set for the correct AC voltage.
5. Plug the line cord into the AC outlet.
6. Replace the back door.
7. Turn the power switch to ON.
8. Verify that the cooling fans on the cabinet are working.
   *If not, turn off AC power and disconnect line cord. Contact Betson service*
9. Check that no component is excessively hot or emitting foul odors.
   *If so, turn off AC power and disconnect line cord. Contact Betson service.*
10. Once software loads, you will be asked to setup the cabinet software.

# Game Software Setup

## Crossbow Calibration

When first turned on, cabinet will prompt for calibration.  Follow the onscreen prompts to calibrate the crossbow sights and reload mechanism.

## Verify Input and Output Functionality

1. Enter the Diagnostic menu
2. Enter the INPUT TESTS menu and verify all switches and inputs function.
3. Enter the VIDEO TESTS menu and verify that video is acceptable.
4. Enter the COIN METER TEST and verify the operation of the coin meter.
5. Enter the LAMP TESTS menu and verify that the lamps of the buttons work correctly.
6. Enter the SOUND TEST menu and verify the audio works and is not distorted.
7. Enter the WATCHDOG TEST menu, which re-boots the game.
8. Upon a successful re-boot, you are ready to make adjustments to pricing, volume and other functions found in the Diagnostic menu.

# Maintenance

## Hard Drive Recovery

Symptoms requiring hard drive recovery include:

- File Test reports bad or missing files
- Game fails to finish loading during startup
- After resetting the AC power, an error is reported
- You are prompted to insert a boot DVD
- Erratic Game or Attract Mode
- A screen indicating Data Files Corrupted

### COMPUTER

The computer contains sensitive components, including a hard drive. 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.

**DVD Restore**

1. With game and PC on, insert recovery DVD, marked as Disc 1, into DVD-ROM drive tray.
2. Close tray and Turn cabinet AC power switch to OFF.
3. Wait 30 seconds, then turn AC power switch to ON.  Recovery begins automatically.
   *If recovery fails to begin, check that disc is seated properly in DVD-ROM drive tray.*
4. Initial software loading may take several minutes.   Check progress periodically.
   ***Do not interrupt power or reset the game during recovery.***
5. At some point, the game will eject *Disc 1* and prompt you to insert *Disc 2*.
6. Swap discs and close the tray.  ***Do not interrupt power or reset the game.***
7. When software has finished loading, a message indicates that restore is complete.
8. Remove DVD restore disc and turn cabinet power switch to OFF.
9. After 30 seconds, turn cabinet power switch to ON.
10. After game restarts, the game will proceed through the Setup Wizard with factory defaults.

**Flash Drive Restore**

1. Turn AC power switch to OFF.
2. Connect USB flash drive to an open USB port on the PC.
3. Turn AC power switch to ON.
4. Initial software loading may take several minutes.   Check progress periodically.
   ***Do not interrupt power or reset the game during recovery.***
5. When software has finished loading, a message indicates that restore is complete.
6. Turn cabinet power switch to OFF and disconnect USB flash drive.
7. After 30 seconds, turn cabinet power switch ON.
8. After game restarts, the game will proceed through the Setup wizard with factory defaults.

## Regular Crossbow Maintenance Procedure

In order to maximize income potential, keep the crossbows in optimal working order by performing the following procedure every time you empty the cash box.

1. **Verify trigger functionality**
   Press the Test button on the service panel, select Tests, select Input Tests, and then select Switch Test (described earlier in this manual) to ensure the triggers are functioning properly.
2. **Verify reload functionality**
   Verify reload mechanism is not binding.  Reload action should be a smooth motion.
3. **Calibrate, calibrate, calibrate**
   Return to the Main Menu screen and select Gun Calibration. Follow the instructions earlier in this manual or on screen to recalibrate both crossbows.

Recalibrate the crossbows any time the game is moved or the bows are repaired, replaced or swapped. Note: It is not advisable to replace or swap devices while power is on.  Shut AC power off before connecting or disconnecting any components.  If, for some reason, crossbows are changed while power is on, shut off AC power and reboot, after the crossbows are connected again.  Failure to do so may result in incorrect functionality.

> # Following these procedures is _critical_ to maintaining crossbows and maximizing revenue. Perform regular maintenance to keep your game in top working order.

# Troubleshooting

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

## General Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Game will not power up | Game not plugged in. | Plug game into outlet. |
| | Game not turned on. | Turn on main power switch. |
| | Game fuse is blown. | Check and replace fuse. |
| | No power to receptacle. | Test outlet and plug game into powered outlet. |
| | PC not turned on. | Turn PC power switch on. Ensure IEC cable tightly plugged in. Trace cable back to source to ensure continuity. |
| | PC BIOS set incorrectly. | See BIOS Settings chapter. |
| *NO VIDEO* message | Video cables not plugged in properly | Reattach and/or tighten video cable to monitor. Reattach and/or tighten video cable to PC. |
| | Faulty video cable | Replace video cable |
| | PC not turned on. | Turn PC power switch on. |
| No sound | Bad Connection | Check connection to speakers. |
| Game does not load | Hard drive failure | Recover hard drive. |
| Hard drive test reports "bad" or "missing" files. | | |
| Game fails to finish loading. | | See procedure on pg 23. |
| After resetting, game still reports an error. | | |
| Game suggests inserting a boot DVD. | | |
| Erratic game mode or attract mode. | | |
| WARNING! Data Files Corrupted. (Game Operation May Become Unstable.) Use "Test" Switch to Enter Test Mode and Run "File Test." Press Start To Continue. | | |
| Game resets | Bad file. | Run File Test. Restore hard drive. |

| Problem | Possible Cause | Solution |
|---------|---------------|----------|
| Coin meter does not click during Test | No pulse to meter | Check all wiring from meter to I/O board |
|  | Faulty meter | Replace coin meter |
|  |  |  |
| Exits Test Mode every 3 seconds | Test button stuck in ON position | Slide or toggle button off after Test Menu appears |
|  |  |  |
| *Dongle Not Present* | Dongle missing or disconnected | Find dongle usb connection and reseat in USB port |
|  | Faulty USB port | Connect dongle to another USB port |
|  |  |  |
| *Connect I/O Board* or *I/O Board Missing* | USB cable disconnected | Check USB connection from PC to I/O board<br>Try connecting to a different USB port |
|  | Blown fuse | Verify 5V and 12V fuses are not blown |
|  | No power to RIO board | Check for proper voltage (+5V, +12V) at RIO P2 connector |
|  | Bad RIO Board | Replace RIO board with known functional board |

# Parts

## Seat Cabinet Assembly
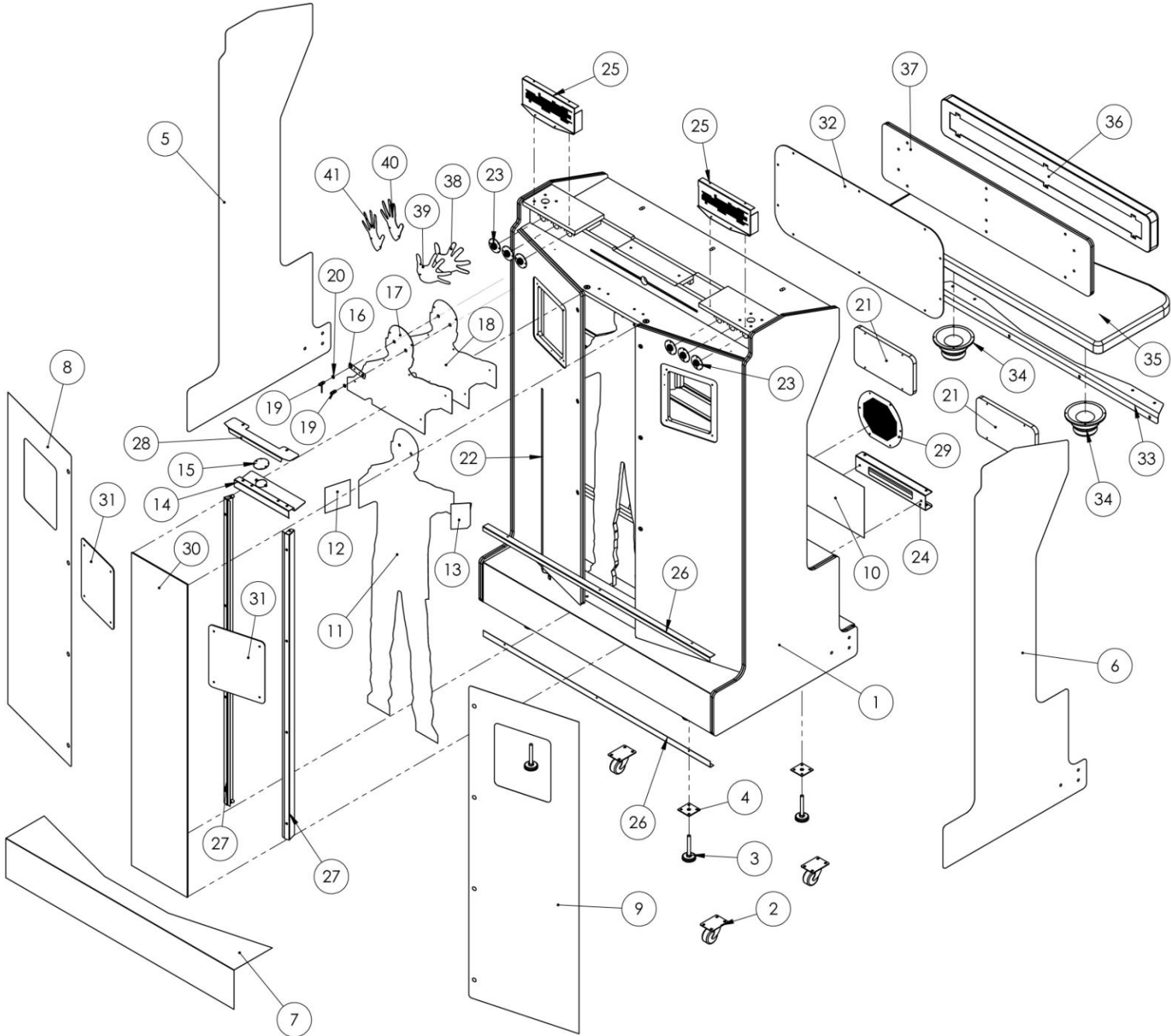
### Seat Cabinet Assembly Part Numbers

| Item | Part No. | Description | QTY |
|------|----------|-------------|-----|
| 1 | 601-00759-01 | ASSY-WOOD-SEATCAB-WD | 1 |
| 2 | CASTER 2'5 | 2-1/2" CASTER | 4 |
| 3 | LEG LEVELER – ½"-13 X 4.00LG | LEG LEVELER – ½"-13 X 4.00LG | 4 |
| 4 | LEG LEVELER PLATE | 2.50 X 2.50 X ½-13-CTR-LEVELER PLATE | 4 |
| 5 | 606-01180-01 | DECAL-LEFT-SEATCAB-SIDE-WD | 1 |
| 6 | 606-01181-01 | DECAL-RT-SEATCAB-SIDE-WD | 1 |
| 7 | 606-01182-01 | DECAL-LOWER-REAR-SEATCAB-WD | 1 |
| 8 | 606-01183-01 | DECAL-LEFT-DOOR-SEATCAB-WD | 1 |
| 9 | 606-01184-01 | DECAL-RT-DOOR-SEATCAB-WD | 1 |
| 10 | 606-01185-01 | DECAL-INSIDE-SEATCAB-WD | 1 |
| 11 | 606-01186-01 | DECAL-ZOMBIE-FRONT-WD | 1 |
| 12 | 606-01190-01 | DECAL-ZOMBIE-RT-ARM-WD | 1 |
| 13 | 606-01189-01 | DECAL-ZOMBIE-LEFT-ARM-WD | 1 |
| 14 | 600-01932-01 | BRACKET-PUCK-LIGHT-WD | 1 |
| 15 | 500-00205-01 | White LED Superpuck PCB-36LEDS | 1 |
| 16 | 600-01904-01 | PLATE-EYE-MOUNT-WD | 1 |
| 17 | 603-00800-01 | PLATE-ZOMBIE-BUST-WD | 1 |
| 18 | 606-01187-01 | DECAL-ZOMBIE-BACK-WD | 1 |
| 19 | 10MM-YELLOW-LED | 10MM-YELLOW-LED-KINGBRIGHT-WP813YD | 4 |
| 20 | .07THK-O-RING-.38-ID-.50-OD | .07THK-O-RING-.38-ID-.50-OD (MC#9452K21) | 2 |
| 21 | 601-00771-01 | WD-SEATCAB-ACCESS-DOOR | 2 |
| 22 | 500-00184-90 | 90CM-RGB-LED-STRIP-54LEDS | 2 |
| 23 | 500-00026-02-H20 | RED LED PUCK LIGHT PCB | 6 |
| 24 | 600-01458-01 | JP-55-CTR-CONNECT-BRACKET | 1 |
| 25 | 600-01854-01 | GRILL-SPEAKER-SEATCAB-WD | 2 |
| 26 | 600-01855-01 | TRIM-LOWER-REAR-WD | 2 |
| 27 | 600-01856-01 | BRACKET-DOOR-WD | 2 |
| 28 | 600-01857-01 | RETAINER-DOOR-WD | 1 |
| 29 | 600-01934-01 | GRILL-PORT-WD | 1 |
| 30 | 603-00794-01 | PETG-DOOR-OPENING-WD | 1 |
| 31 | 603-00795-01 | WINDOW-DOOR-WD | 2 |
| 32 | 603-00796-01 | WINDOW-INSIDE-WD | 1 |
| 33 | 600-01859-01 | BRACKET-SEAT-CUSHION-WD | 1 |
| 34 | 2-1-11-00-00-000 | SPEAKER WOOFER-6.5" 4 OHM | 2 |
| 35 | 600-01870-01 | SEAT-BASE-PAD-ASSY-WD | 1 |
| 36 | 600-01871-01 | SEAT-BACKREST-PAD-PANEL-WD | 1 |
| 37 | 601-00775-01 | WD-BACKRES-PANEL | 1 |
| 38 | 603-00809-01 | PLATE-LEFT-HAND-WD | 1 |
| 39 | 606-01269-01 | DECAL-ZOMBIE-LEFT-HAND-WD | 1 |
| 40 | 603-00808-01 | PLATE-RIGHT-HAND-WD | 1 |
| 41 | 606-01268-01 | DECAL-ZOMBIE-RIGHT-HAND-WD | 1 |

## Main Cab Assembly
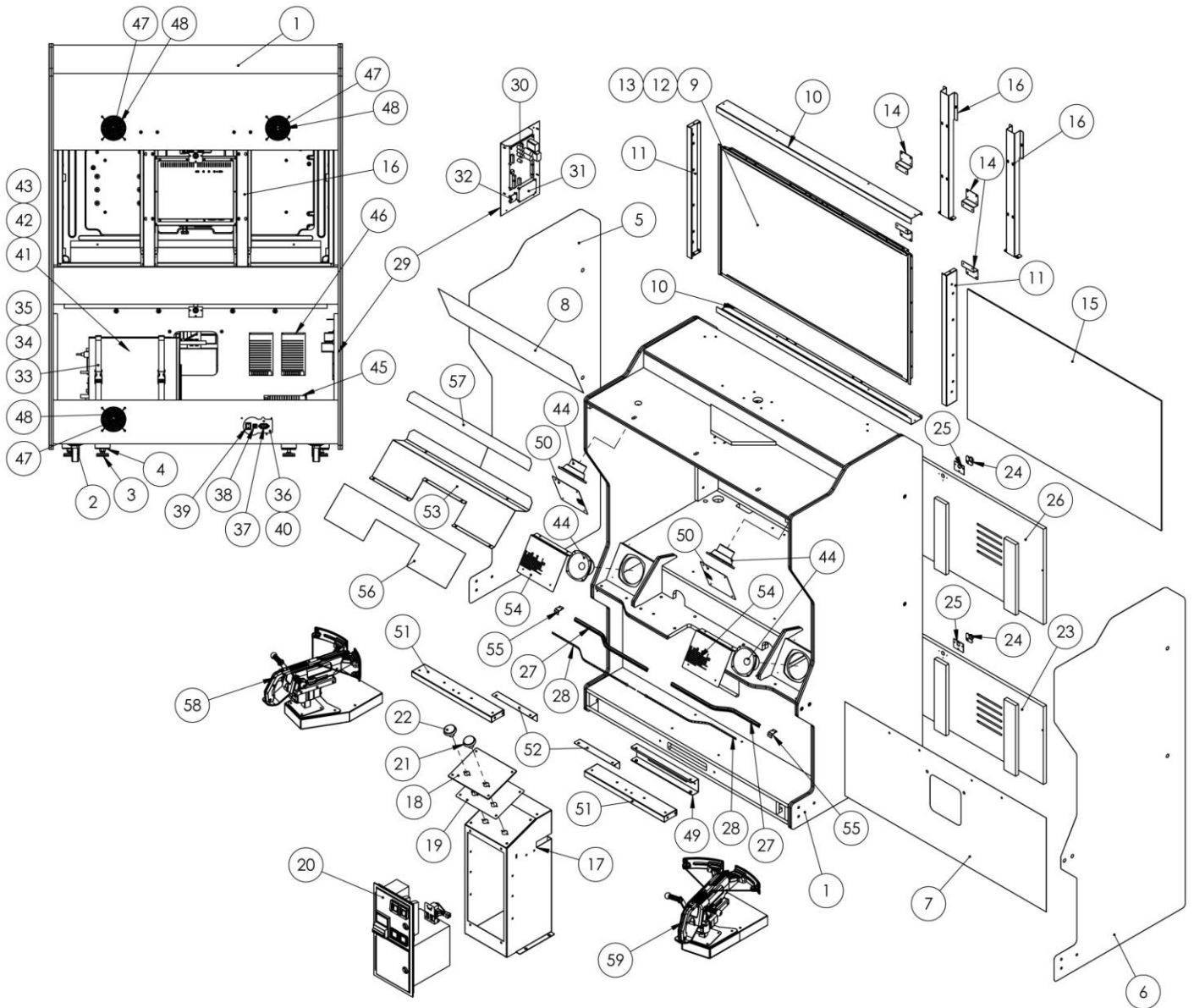


## Main Cab Assembly Part Numbers

| Item | Part No. | Description | QTY |
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| 3 | LEG LEVELER – ½"-13 X 4.00LG | LEG LEVELER – ½"-13 X 4.00LG | 4 |
| 4 | LEG LEVELER PLATE | 2.50 X 2.50 X ½-13 CTR-LEVELER PLATE | 4 |
| 5 | 606-01176-01 | DECAL-LEFT-SIDE-MAINCAB-WD | 1 |
| 6 | 606-01177-01 | DECAL-RIGHT-SIDE-MAINCAB-WD | 1 |
| 7 | 606-01178-01 | DECAL-LOWER -MAINCAB-WD | 1 |
| 8 | 606-01179-01 | DECAL-UPPER-MAINCAB-WD | 1 |
| 9 | 1_550_imperial_assy_asm | 55" KORTEK LCD ASSY | 1 |
| 10 | 600-01206-01 | BRACKET-FRAME-HORIZ-55LCD-ALIENS | 2 |
| 11 | 600-01205-01 | BRACKET-FRAME-VERT-55-LCD-ALIENS | 2 |
| 12 | Foamtape-horz | .25 x .50 x 47.74LG FOAM TAPE | 2 |

| 13 | Foamtape-vert | .25 x .50 x 29.00LG FOAM TAPE | 2 |
|----|----|----|----|
| 14 | 600-01137-01 | BRACKET-MOUNT-55LCD-OPEN-FRAME | 4 |
| 15 | 600-01138-01 | GLASS-SHIELD-55LCD | 1 |
| 16 | 600-01482-01 | JP-55-STRUT-LCD | 2 |
| 17 | 600-01852-01 | VAULT-COIN-WD | 1 |
| 18 | 603-00790-01 | PETG-CONTROL-PANEL-WD | 1 |
| 19 | 606-01192-01 | DECAL-CONTROL-PANEL-WD | 1 |
| 20 | 800-00005-01 | MID-WIDTH COINDOOR – BBHD | 1 |
| 21 | 702-00054-00 | LARGE RND – BLUE – START-BUTTON | 1 |
| 22 | 702-00058-00 | LARGE RND – GREEN – START-BUTTON | 1 |
| 23 | 601-00762-01 | WD-MAINCAB-REAR-DOOR | 1 |
| 24 | Lock 7/8" w/ 1.25 Cam | LOCK STANDARD | 2 |
| 25 | LOCK RETAINER N202-130 | LOCK RETAINER N202-130 | 2 |
| 26 | 601-00763-01 | WD-MAINCAB-LCD-DOOR | 1 |
| 27 | 603-00718-01 | LED-TMOLD-WD-CP-21LG | 2 |
| 28 | 500-00131-01 | LED-STRIP-WD-CP-21LG | 2 |
| 29 | 600-01501-01 | RIO-MOUNT-PLATE-W-MOTION-CNTRL | 1 |
| 30 | 500-00040-01 | RIO-BOARD | 1 |
| 31 | 500-00144-03 | Motion Control PCB | 1 |
| 32 | 500-00194-01 | 5V, 5A Switching Regulator (12V input) | 1 |
| 33 | 87425K76 (56 length)-for-HP | Nylon Strip 0.075" Thick, 1" Width, Black (56" Length) | 2 |
| 34 | 29705T86 (male) | Buckle for 1" Wide Webbing (Male) | 2 |
| 35 | 29705T86 (female) | Buckle for 1" Wide Webbing (Female) | 2 |
| 36 | 600-01681-01 | PLATE, AC – LINE FILTER, CIRCUIT BREAKER, ON/OFF SW | 1 |
| 37 | Power Inlet Receptacle | IEC Appliance Inlet, Screw-on Mounting, Front Side, Quick-connect, 10A | 1 |
| 38 | T9-611-5A | 5A-Circuit Breaker, Snap-in type, Fuseholder style, 1 pole (Schurter #4404.0007) | 1 |
| 39 | 1832-33-12 | AC-SWITCH-15AMP-12V-HEILAND-ELECT | 1 |
| 40 | Ring and Spade Tongue Terminal | Ring and Spade Tongue Terminal (#8 screw) | 1 |
| 41 | HP6005 | HP 6005 PC Assy | 1 |
| 42 | 600-00891-01 | Securing Nylon Strap Plate | 2 |
| 43 | FOAM-PC-.5X8X14.5 | FOAM-PC-.58X14.5 – POLYETHYLENE PLANK | 1 |
| 44 | 2-1-10-00-00-000 | 5.25 FULL RANGE SPEAKER | 4 |
| 45 | 500-00166-01 | MEANWELL-150W-12V-DUAL-VOLT-PS | 1 |
| 46 | 500-00187-01 | 150W-24V-POWER-SUPPLY | 2 |
| 47 | 820-00001-00 | FAN,120VAC,19/15W | 3 |
| 48 | 800-00001-00 | 120mm Wire Fan Guard | 3 |
| 49 | 600-01458-01 | JP-55-CTR-CONNECT-BRACKET | 1 |
| 50 | 600-01464-01 | JP-55-SPEAKER-GRILL | 2 |
| 51 | 600-01849-01 | BRACKET-SUPPORT-CP-WD | 2 |
| 52 | 600-01850-01 | ANGLE-SUPPORT-CP-WD | 2 |
| 53 | 600-01851-01 | WD-CP-DECAL-BRACKET | 1 |
| 54 | 600-01853-01 | GRILL-CP-SPEAKER-WD | 2 |
| 55 | 600-01899-01 | CLIP-LED-WD | 2 |
| 56 | 606-01193-01 | DECAL-CP-CENTER-WD | 1 |
| 57 | 606-01194-01 | DECAL-CP-HEADER-WD | 1 |
| 58 | LEFT-CONTROL-PANEL-ASSY | LEFT-CONTROL-PANEL-ASSY | 1 |
| 59 | RIGHT-CONTROL-PANEL-ASSY | RIGHT-CONTROL-PANEL-ASSY | 1 |

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## Final Cabinet Assembly
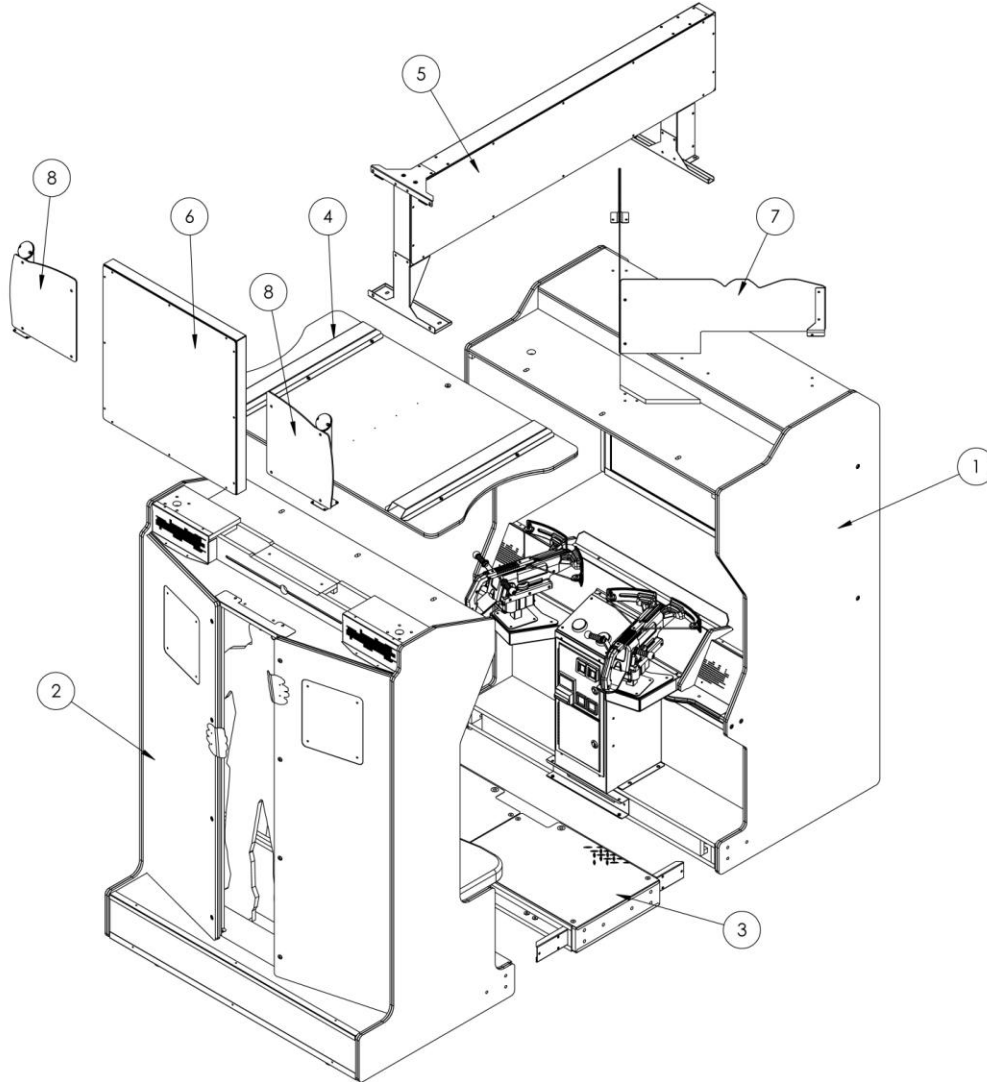


| Item | Description | QTY |
|------|-------------|-----|
| 1 | WD-55-MAIN-CAB-ASSY | 1 |
| 2 | WD-55-SEAT-CAB-ASSY | 1 |
| 3 | WD-55-FLOOR-BOX-ASSY | 1 |
| 4 | WD-ROOF-ASSY | 1 |
| 5 | WD-LIGHTBOX-ASSY | 1 |
| 6 | WD-SQ-LIGHTBOX-ASSY | 1 |
| 7 | WD-55-MAINCAB-BARBEDWIRE-ASSY | 1 |
| 8 | WD-55-SEATCAB-POST-ASSY | 2 |

## Floor Box Assembly
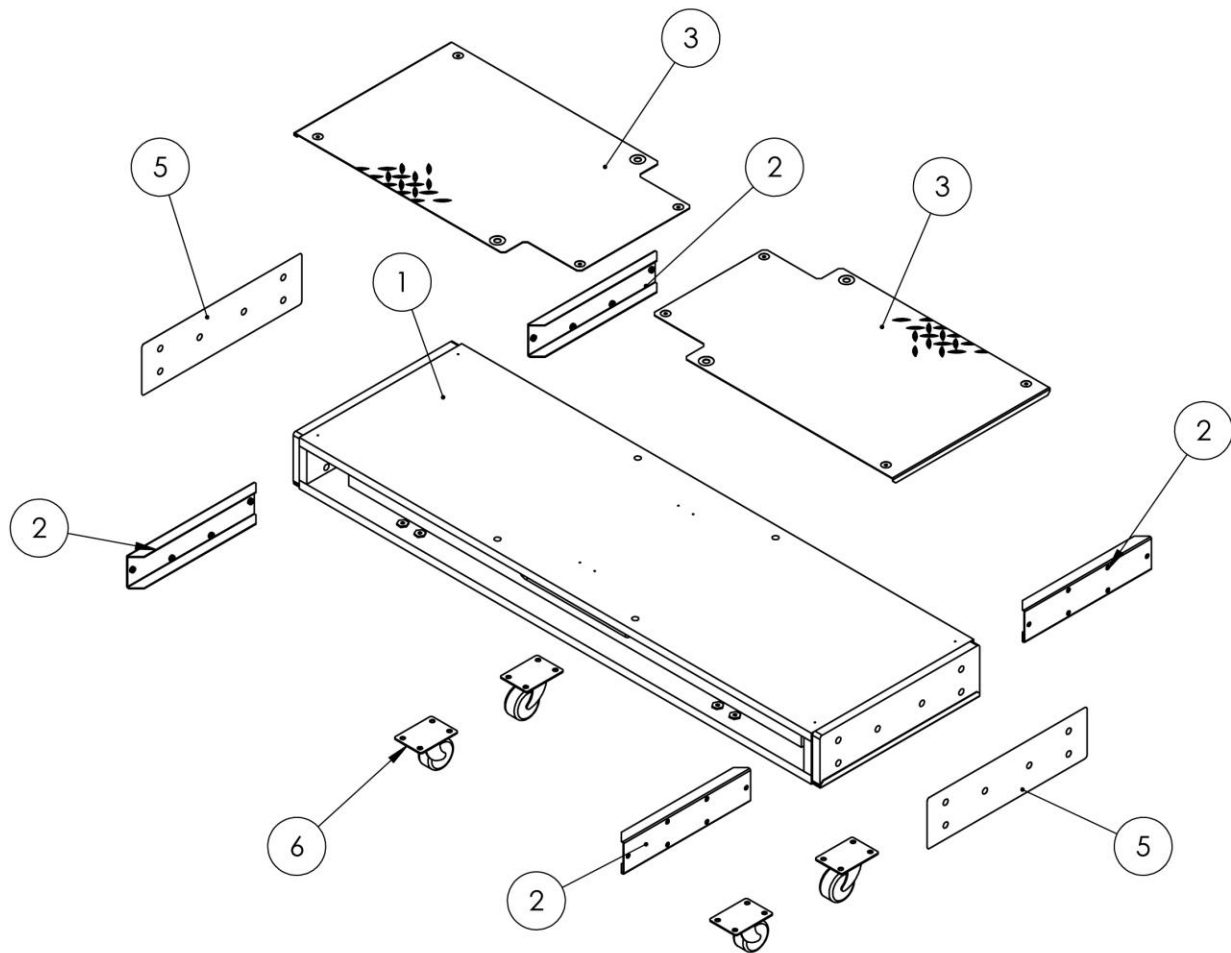


### Floor Box Assembly Part Numbers

| Item | Part No. | Description | QTY |
|------|----------|-------------|-----|
| 1 | 600-01847-01 | WD-WOOD-FLOOR-BOX | 1 |
| 2 | 600-01457-01 | JP-55-CONNECT-BRACKET | 4 |
| 3 | 600-01863-01 | DIAMOND-PLATE-WD | 2 |
| 4 | 600-01864-01 | TRIM-FLOOR-WD | 2 |
| 5 | 606-01191-01 | DECAL-FLOORBOX-SIDE-WD | 2 |
| 6 | CASTER – 2-1/2" | CASTER – 2-1/2" | 4 |

## Roof Assembly
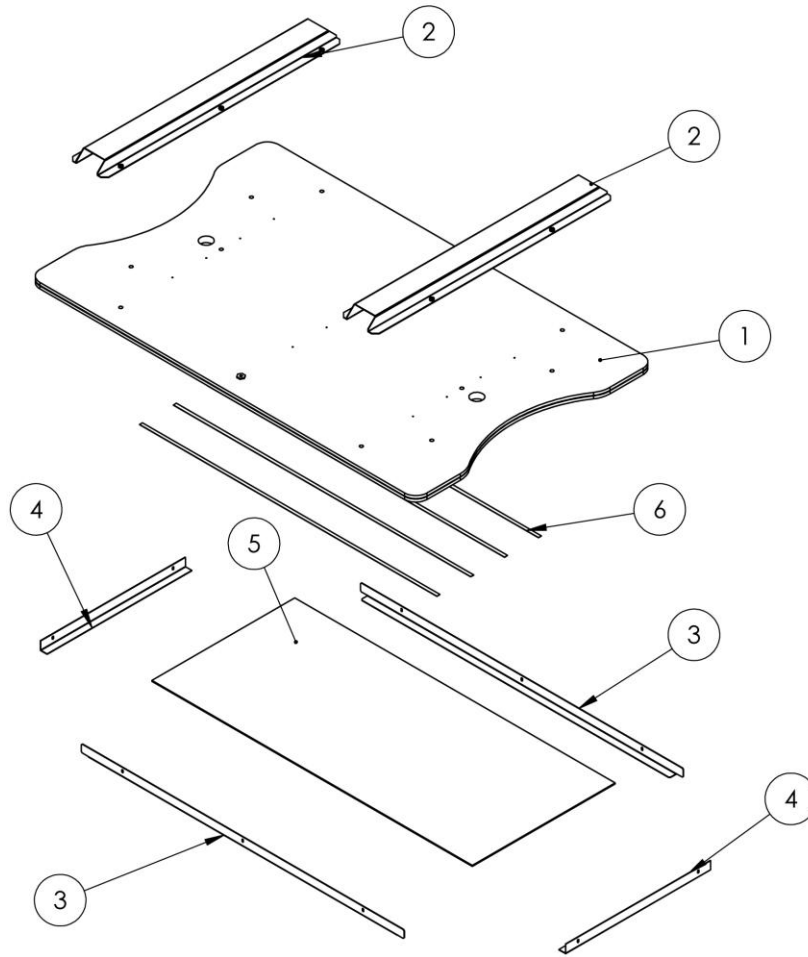


### Roof Assembly Part Numbers

| Item | Part No. | Description | QTY |
|---|---|---|---|
| 1 | 601-00761-01 | ASSY-WOOD-ROOF-WD | 1 |
| 2 | 600-01865-01 | WD-55-ROOF-BRACKET | 2 |
| 3 | 600-01802-01 | RETAINER-CROSS-ROOF-WD | 2 |
| 4 | 600-01801-01 | RETAINER-END-ROOF-WD | 2 |
| 5 | 603-00785-01 | PANEL-DIFFUSION-ROOF-WD | 1 |
| 6 | 500-00184-100 | 100CM-RGB-LED-STRIP-LIGHT-60LEDS | 4 |

## Left/Right Control Panel Assembly
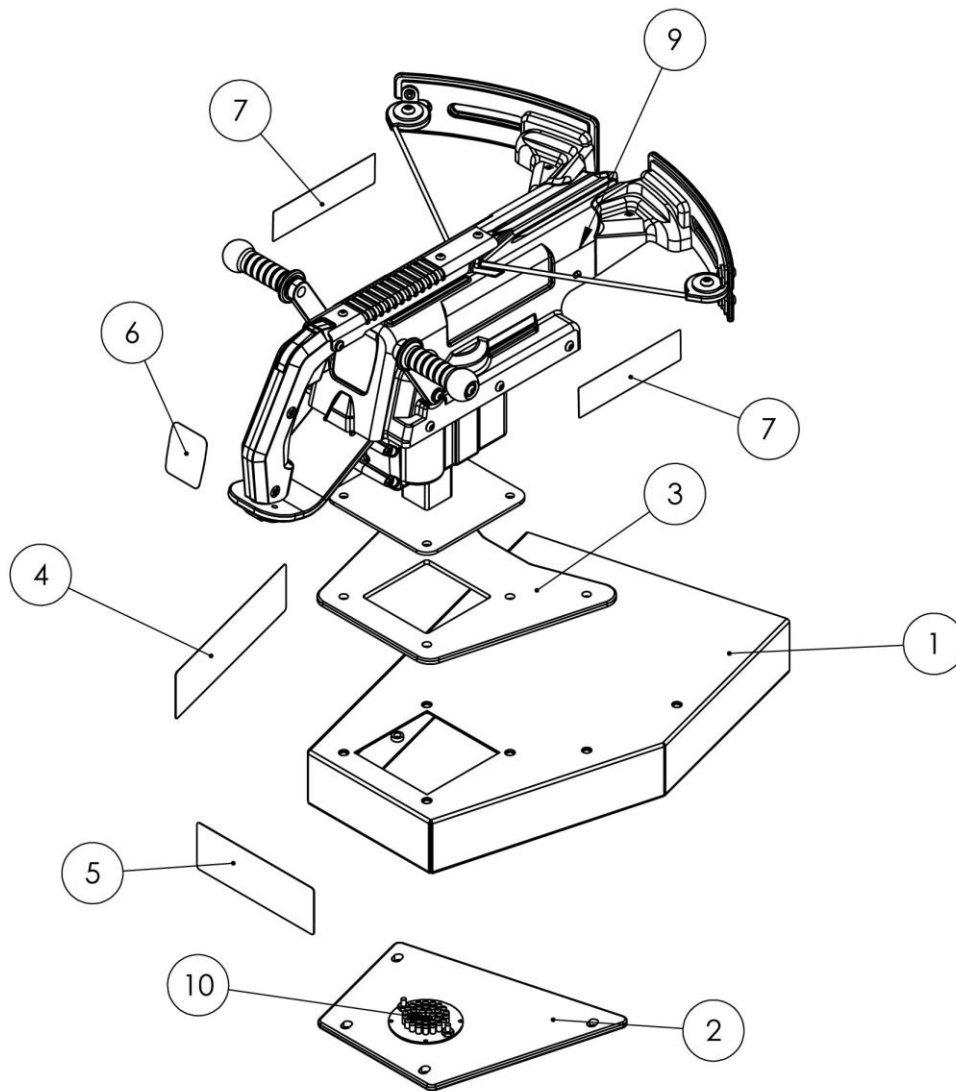


**Left/Right Control Panel Assembly Part Numbers**

| Item | Part No. | Description | QTY |
|------|----------|-------------|-----|
| 1 | 600-01847-01 | BRACKET-CP-LEFT-WD | 1 |
|   | 600-01848-01 | BRACKET-CP-RIGHT-WD |   |
| 2 | 603-00793-01 | COVER-BOTTOM-CP-WD | 1 |
| 3 | 603-00792-01 | ACRYLIC-GREEN-CP-WD (LEFT) | 1 |
|   | 603-00791-01 | ACRYLIC-BLUE-CP-WD (RIGHT) |   |
| 4 | 606-01215-01 | DECAL-JOIN-IN-WD | 1 |
| 5 | 606-01197-01 | DECAL-PLAYER-1-WD | 1 |
|   | 606-01198-01 | DECAL-PLAYER-2-WD |   |
| 6 | 606-01195-01 | DECAL-CROSSBOW-FRONT-WD | 1 |
| 7 | 606-01196-01 | DECAL-CROSSBOW-SIDE-WD | 1 |
| 8 | 820-00024-01 | ASSY-BOW-MECH-WD | 2 |
| 9 | 820-00024-01 | Crossbow Main Assembly | 1 |
| 10 | 500-00205-01 | White LED Superpuck PCB-36LEDS | 1 |

## Crossbow Main Assembly



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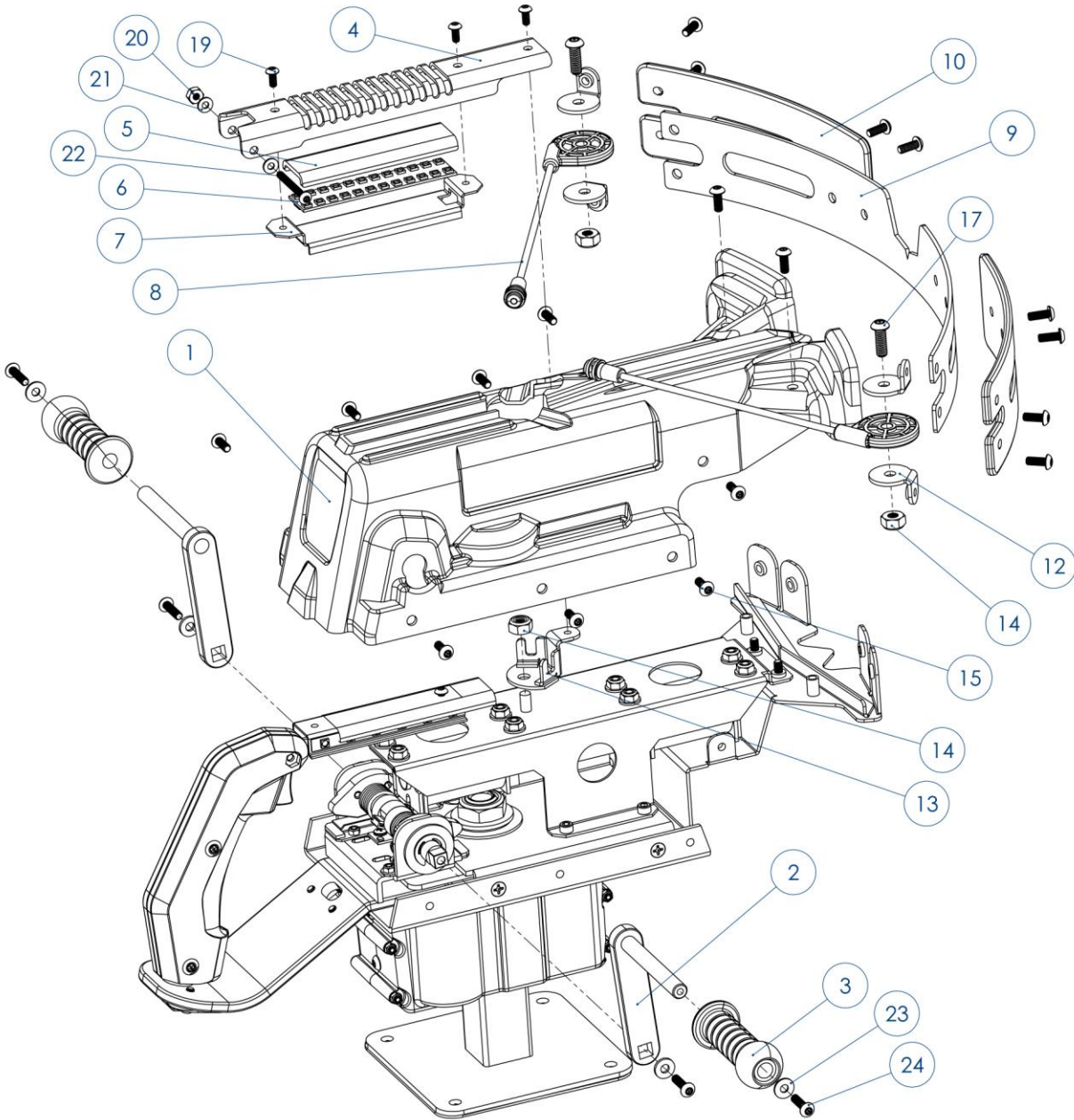
## Crossbow Main Assembly Part Numbers

| Item | Part No. | Description | QTY |
|------|----------|-------------|-----|
| 1 | 600-01841-01 | Bow main cover | 1 |
| 2 | 600-01824-01 | Reload arm | 2 |
| 3 | 600-01831-01 | Reload handle | 2 |
| 4 | 600-01814-01 | Top handle bracket | 1 |
| 5 | 600-01903-01 | LED Diffuser | 1 |
| 6 | 500-00217-01 | LED Board | 1 |
| 7 | 600-01815-01 | LED Bracket | 1 |
| 8 | 600-01991-01 | Overmolded Bow Rod | 2 |
| 9 | 600-02000-01 | Single Bow Bracket | 2 |
| 10 | 600-01830-01 | Bow Plastic | 2 |
| | | | |
| 12 | 600-01820-01 | Wheel Bracket | 4 |
| 13 | 600-01998-01 | Molded Bow Rod Center Bracket | 1 |
| 14 | MMC 90652A029 | ¼-20 Thin black locknut | 3 |
| 15 | MMC 91355A077 | 10-32 x ½" black tamperproof screw | 18 |
| | | | |
| 17 | MMC 9135A082 | ¼-20 x ¾" black tamperproof screw | 2 |
| | | | |
| 19 | MMC 91355A074 | 8-32 x 3/8" black tamperproof screw | 3 |
| 20 | MMC 94407A102 | 8-32 black locknut | 1 |
| 21 | MMC 96765A120 | 8-32 black washer | 2 |
| 22 | MMC 96075A155 | 8-32 x 1.5" black tamperproof screw | 1 |
| 23 | MMC 97416A115 | 10-32 black washer | 4 |
| 24 | MMC 96075A191 | 10-32 x ¾" black tamperproof screw | 4 |

# Crossbow Top Assembly



GRIP ASSEMBLY

LOWER ASSEMBLY

UPPER ASSEMBLY

SHAKER ASSEMBLY
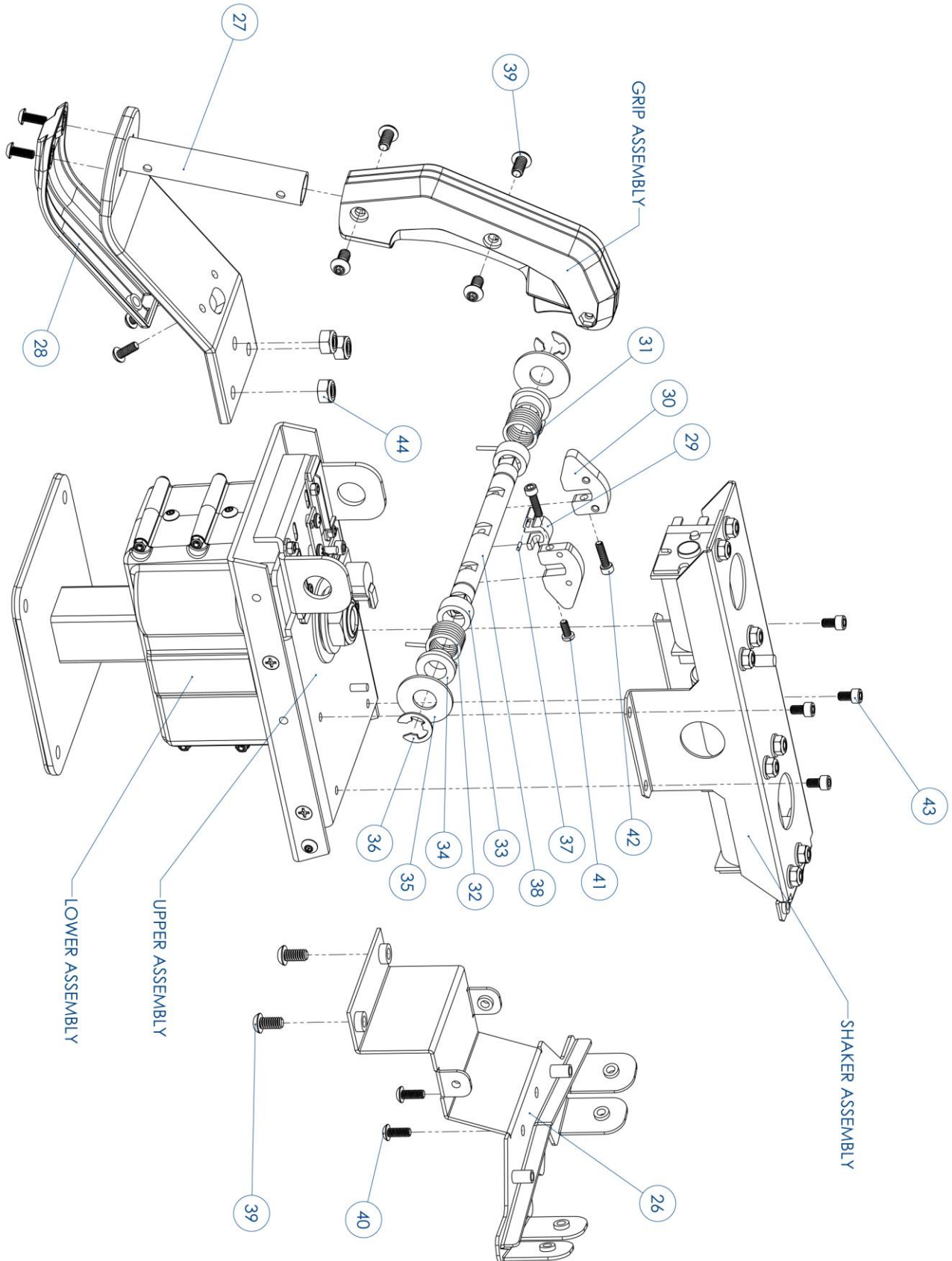
## Crossbow Top Assembly Part Numbers

| Item | Part No. | Description | QTY |
|------|----------|-------------|-----|
| 26 | 600-01817-01 | Front Bow Bracket | 1 |
| 27 | 600-01812-01 | Grip Support Bracket | 1 |
| 28 | 600-01834-01 | Cable Cover | 1 |
| 29 | 600-01833-01 | Magnet Holder | 1 |
| 30 | 600-01827-01 | Pivot Stop | 2 |
| 31 | 600-01828-01 | Torsion Spring – left hand | 1 |
| 32 | 600-01829-01 | Torsion Spring – right hand | 1 |
| 33 | 600-01869-01 | Spring Spacer | 2 |
| 34 | MMC 1677k7 | Flanged sleeve bearing with ptfe | 2 |
| 35 | MMC 92141A033 | ½" ID stainless steel flat washer | 2 |
| 36 | MMC 97431A340 | ½" e-ring | 2 |
| 37 | 600-00788-01 | 3/16" dia x 1/16" thick magnet | 1 |
| 38 | 600-01826-01 | Reload shaft | 1 |
| 39 | MMC 96075A211 | ¼-20 x ½" black tamperproof screw | 6 |
| 40 | MMC 91355A077 | 10-32 x ½" black tamperproof screw | 6 |
| 41 | MMC 92220A152 | 8-32 x 3/8" low profile cap screw | 1 |
| 42 | MMC 91251A196 | 8-32 x 5/8" cap screw | 2 |
| 43 | MMC 91251A191 | 8-32 x 5/16" cap screw | 4 |
| 44 | MMC 90652A029 | 1/4-20 thin locknut | 3 |

## Crossbow Upper Assembly



57

58

48

56

51

59

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60

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53

47

50

46

61
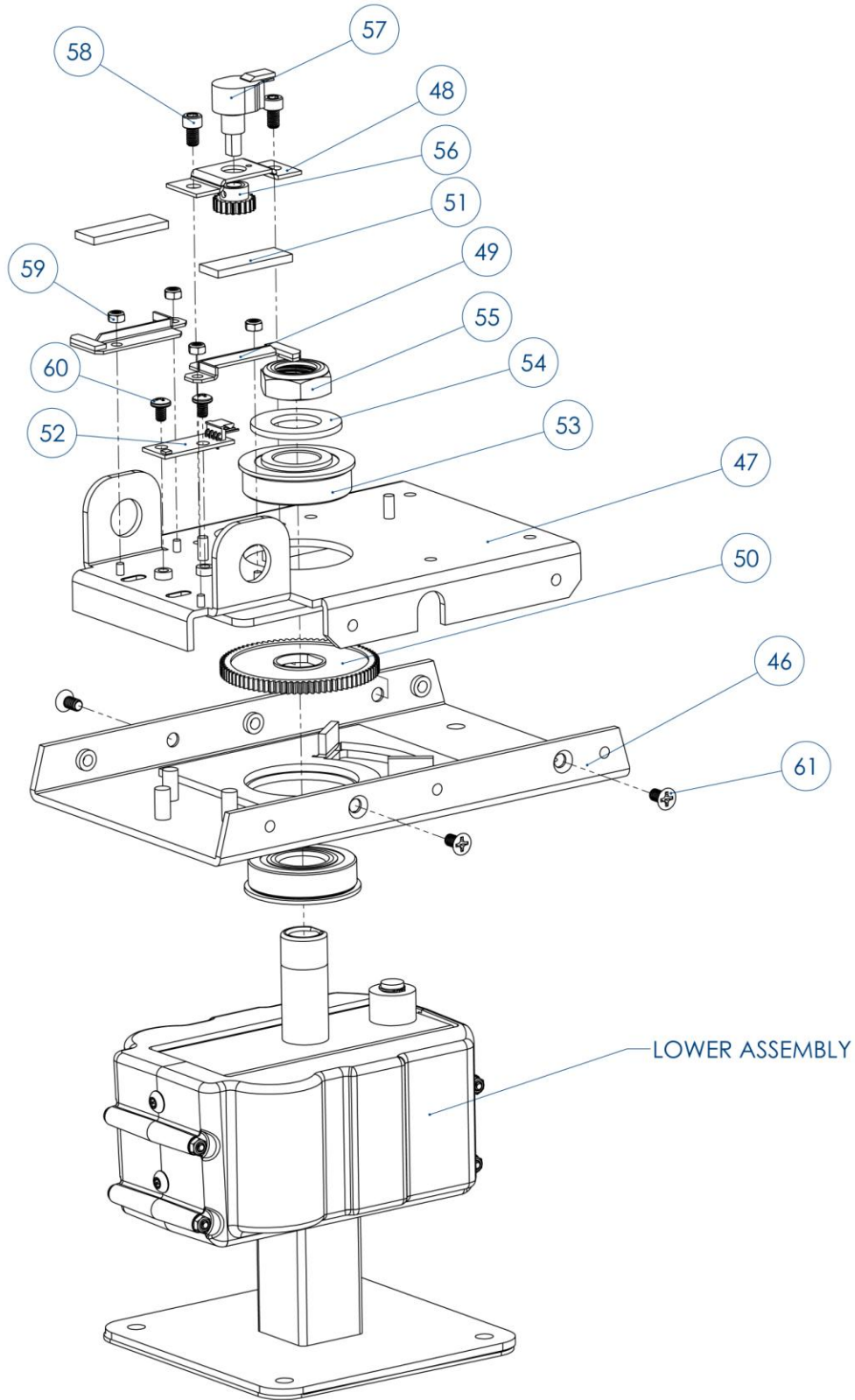
LOWER ASSEMBLY

## Crossbow Upper Assembly Part Numbers

| Item | Part No. | Description | QTY |
|---|---|---|---|
| 46 | 600-01813-01 | Base bracket | 1 |
| 47 | 600-01816-01 | Upper base bracket | 1 |
| 48 | 600-01491-01 | Pot bracket | 1 |
| 49 | 600-01826-01 | Stop holder bracket | 2 |
| 50 | 600-01420-01 | Large gear | 1 |
| 51 | 600-01832-01 | Stop bumper | 2 |
| 52 | 500-00076-01 | Hall effect board | 1 |
| 53 | MMC 6384K369 | ¾" flanged bearing | 2 |
| 54 | MMC 90126A036 | ¾" washer | 1 |
| 55 | MMC 91342A240 | ¾" locknut | 1 |
| 56 | 600-01567-01 | Small pot gear | 1 |
| 57 | HAPP 50-2670-01 | Pot – 5k | 1 |
| 58 | MMC 91251A191 | 8-32 x 5/16" cap screw | 2 |
| 59 | MMC 90631A005 | 4-40 locknut | 4 |
| 60 | MMC 90272A190 | 8-32 x ¼" Phillips screw | 2 |
| 61 | MMC 90273A827 | 10-32 x 3/8" flathead Phillips screw | 4 |

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## Crossbow Lower Assembly



NOTE POSITION
OF ORIENTATION
HOLE IN PINCH COVER
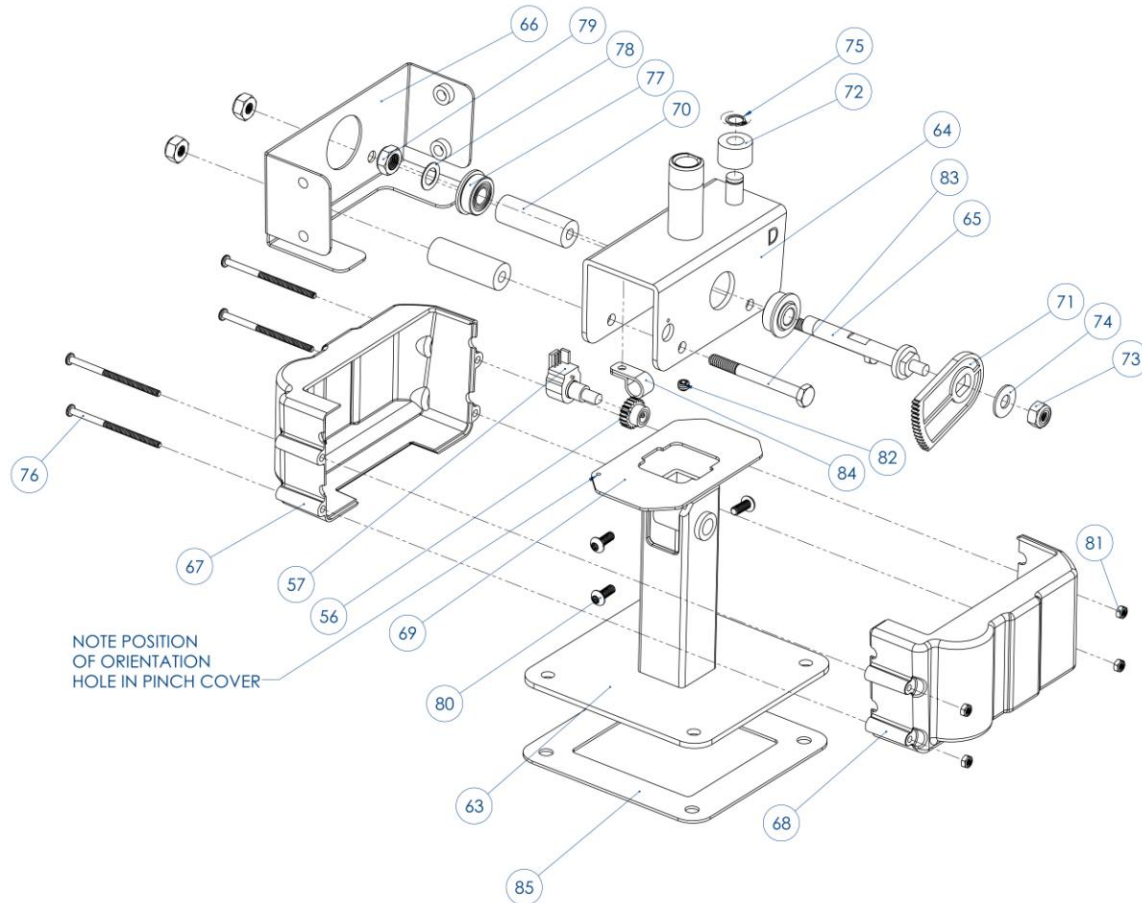
### Crossbow Lower Assembly Part Numbers

| Item | Part No. | Description | QTY |
|------|----------|-------------|-----|
| 63 | 600-01426-01 | Lower tube weldment | 1 |
| 64 | 600-01425-01 | Rocker bracket | 1 |
| 65 | 600-01424-01 | Side pin | 1 |
| 66 | 600-01496-01 | Lower mounting bracket | 1 |
| 67 | 600-01738-01 | Lower cover-left | 1 |
| 68 | 600-01739-01 | Lower cover – right | 1 |
| 69 | 600-01419-01 | Pinch cover | 1 |
| 70 | 600-01418-01 | Tube stop bumper – 5/8" OD | 2 |
| 71 | HAPP 96-4907-00 | Segment gear | 1 |
| 72 | 600-01417-01 | Short stop bumper – ¾" OD | 1 |
| 73 | MMC 90652A029 | ¼-20 thin locknut | 3 |
| 74 | MMC 9018A413 | ¼-20 washer | 1 |
| 75 | MMC 97633A170 | Retaining clip | 1 |
| 76 | 999-00017-01 | 6-32 x 2.4" black Phillips screw | 4 |
| 77 | MMC 6384K344 | 3/8" flanged bearing | 2 |
| 78 | MMC 95229A480 | 3/8" washer | 1 |
| 79 | MMC 90566A220 | 3/8" thin locknut | 1 |
| 80 | MMC 96075A211 | ¼-20 x ½" black tamperproof screw | 4 |
| 81 | 999-00021-01 | 6-32 black locknut | 4 |
| 82 | MMC 92313A532 | ¼-20 x 3/16" set screw | 1 |
| 83 | MMC 91257A552 | ¼-20 x 2.5" hex head bolt – grade 8 | 2 |
| 84 | | Cable clamp | 1 |
| 85 | 600-01577-01 | Gun isolator | 1 |

*Note: set screw(82) is located in lower tube weldment(63), accessed through rocker bracket(64) and requires a long 1/8" hex wrench

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## Crossbow Shaker Assembly



PEEL AND STICK DAMPER PAD
WITH CENTER HOLE CONCENTRIC
TO COIL BRACKET
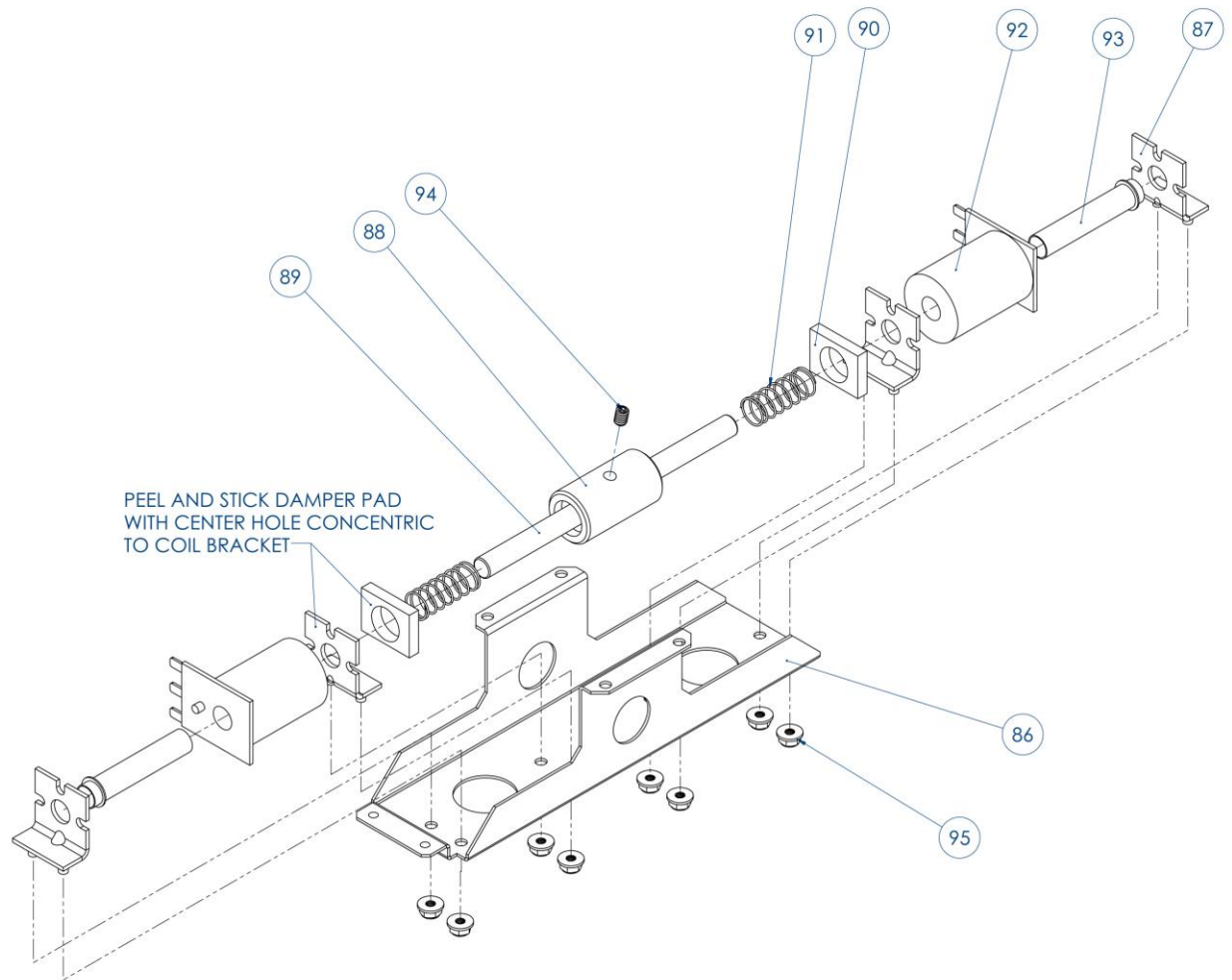
### Crossbow Shaker Assembly Part Numbers

| Item | Part No. | Description | QTY |
|------|----------|-------------|-----|
| 86 | 600-1818-01 | Coil bracket | 1 |
| 87 | 600-01412-01 | Coil mount bracket | 4 |
| 88 | 600-01414-01 | Coil weight | 1 |
| 89 | 600-01413-01 | Coil rod | 1 |
| 90 | 680-00214-01 | Blue damper pad | 2 |
| 91 | 608-00210-01 | Coil spring | 2 |
| 92 | HAPP FL11629 | Coil | 2 |
| 93 | HAPP #95-0637-00 | Coil sleeve | 2 |
| 94 | MMC 91375A535 | ¼-20 x 3/8" set screw | 1 |
| 95 | MMC 93298A109 | 10-32 flanged locknut | 8 |

# Crossbow Grip Assembly
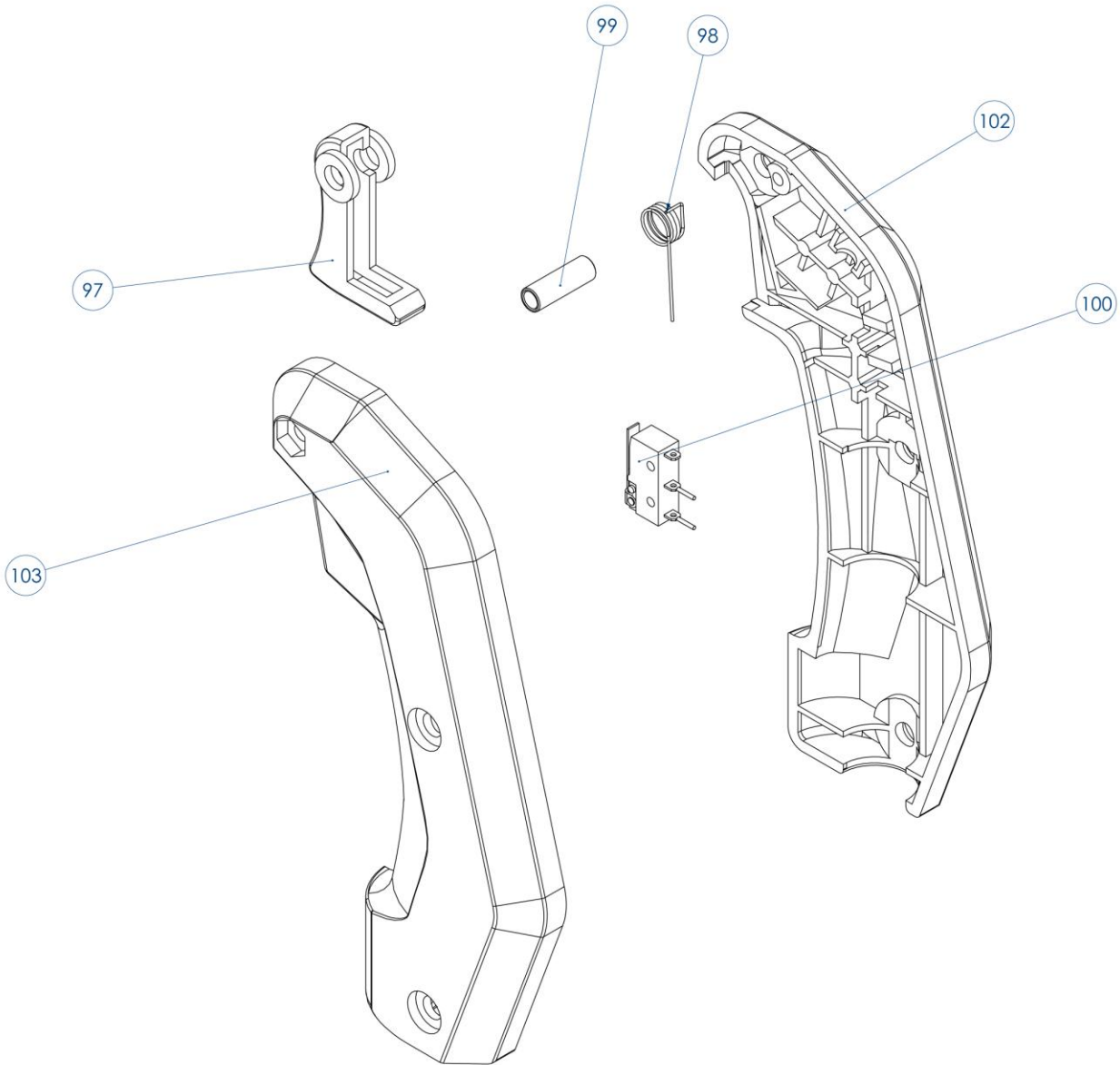


## Crossbow Grip Assembly Part Numbers

| Item | Part No. | Description | QTY |
|------|----------|-------------|-----|
| 97 | 608-00204-01 | Red trigger | 1 |
| 98 | 608-00206-01 | Torsion spring | 1 |
| 99 | 608-00205-01 | Trigger shaft | 1 |
| 100 | 608-00225-01 | Switch assy wms da3 type | 1 |
| | | | |
| 102 | 608-00222-01 | Grip – right hand | 1 |
| 103 | 608-00223-01 | Grip – left hand | 1 |

## Left Post Assembly

| Item | Part No. | Description | QTY |
|------|----------|-------------|-----|
| 1 | 600-01860-01 | POST-WELDMENT-WIRE-WD | 1 |
| 2 | 603-00540-01 | LED Spotlight Lens-RED-TINT | 1 |
| 3 | 606-01202-01 | DECAL-LEFT-FRONT-BARBED-WIRE-WD | 1 |
| 5 | 500-00065-02 | RED LED PUCK LIGHT PCB | 1 |
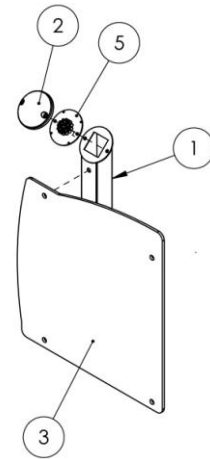


## Right Post Assembly

| Item | Part No. | Description | QTY |
|------|----------|-------------|-----|
| 1 | 600-01860-01 | POST-WELDMENT-WIRE-WD | 1 |
| 2 | 603-00540-01 | LED Spotlight Lens-RED-TINT | 1 |
| 4 | 606-01203-01 | DECAL-RIGHT-FRONT-BARBED-WIRE-WD | 1 |
| 5 | 500-00065-02 | RED LED PUCK LIGHT PCB | 1 |
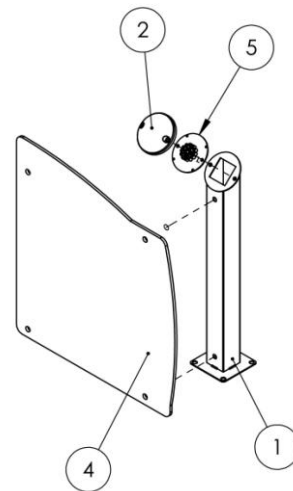


## Square Lightbox Assembly

| Item | Part No. | Description | QTY |
|------|----------|-------------|-----|
| 1 | 600-01803-01 | LIGHTBOX-SQUARE-WD | 1 |
| 2 | 603-00786-01 | PETG-SQUARE-LIGHTBOX-WD | 1 |
| 3 | 606-01199-01 | WD-SQ-LIGHTBOX-TRANSLITE | 1 |
| 4 | 500-00162-65 | 65CM-WHITE-LED-STRIP-39LEDS | 6 |
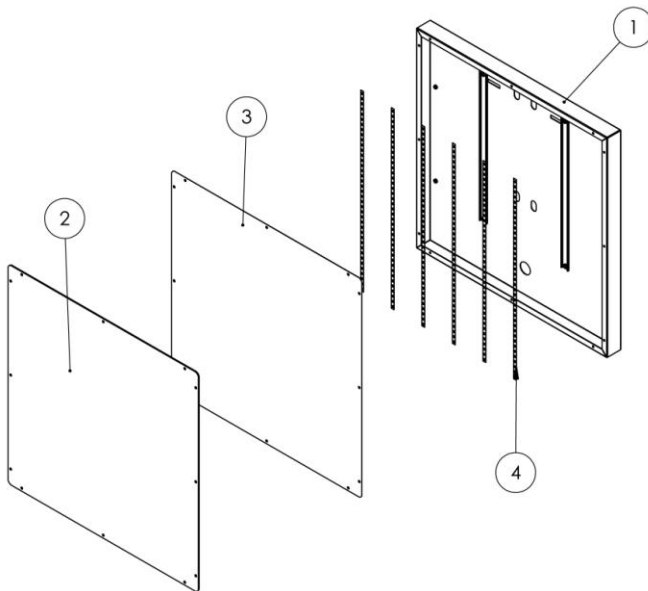
## Lightbox Assembly
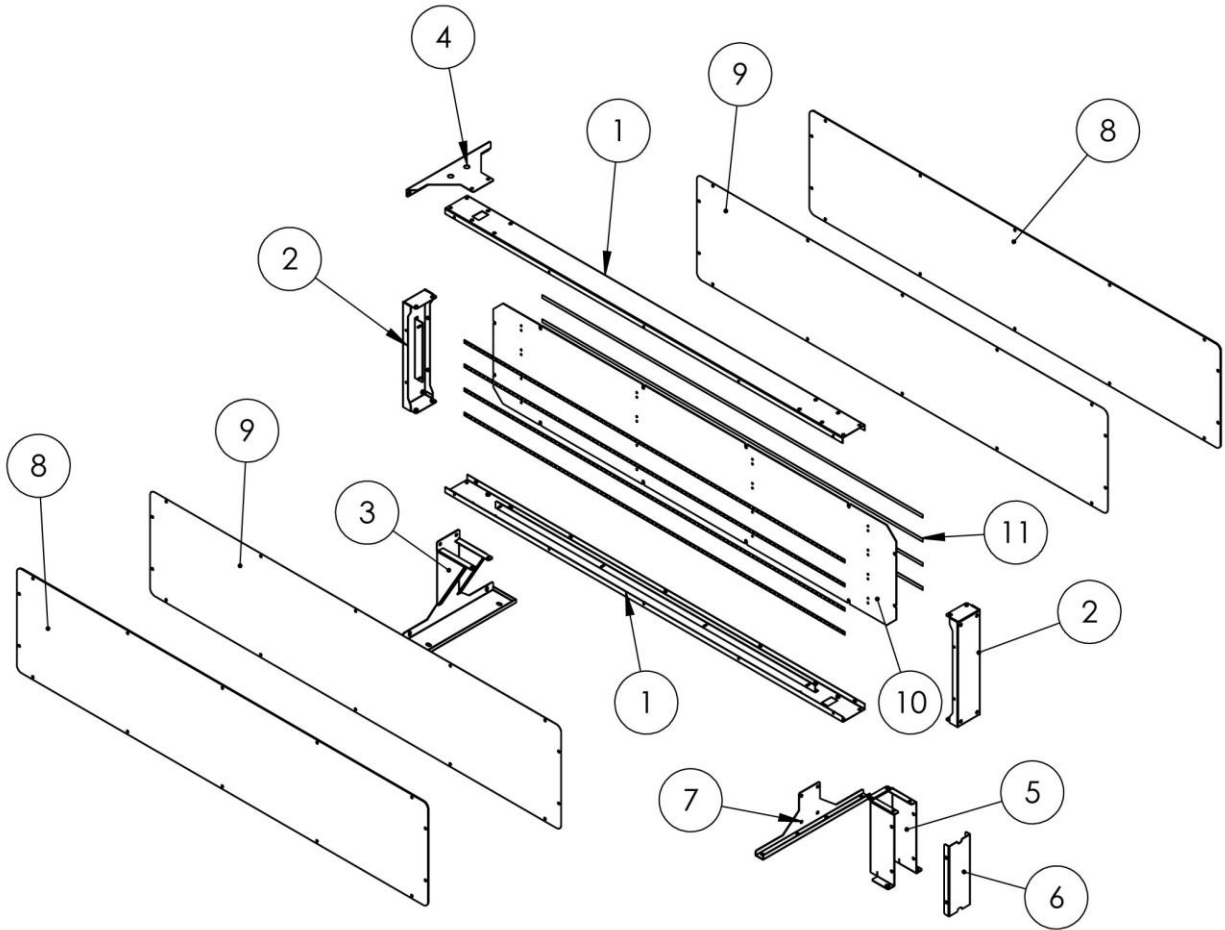


| Item | Part No. | Description | QTY |
|------|----------|-------------|-----|
| 1 | 600-01804-01 | FRAME-HORIZ-LIGHTBOX-WD | 2 |
| 2 | 600-01805-01 | FRAME-VERT-LIGHTBOX-WD | 2 |
| 3 | 600-01806-01 | BRACKET-FRONT-LIGHTBOX-WD | 1 |
| 4 | 600-01807-01 | BRACKET-TOP-LIGHTBOX-WD | 1 |
| 5 | 600-01808-01 | BRACKET-SUPPORT-LIGHTBOX-WD | 1 |
| 6 | 600-01809-01 | COVER-SUPPORT-LIGHTBOX-WD | 1 |
| 7 | 600-01810-01 | GUSSET-LIGHTBOX-WD | 1 |
| 8 | 603-00787-01 | PETG-LIGHTBOX-WD | 2 |
| 9 | 606-01200-01 | WD-LIGHTBOX-TRANSLITE | 2 |
| 10 | 603-00788-01 | STYRENE-REFLECTOR-LIGHTBOX-WD | 1 |
| 11 | 500-00162-150 | 150CM-WHITE-LED-STRIP-90LEDS | 8 |

## Barbed Wire Assembly
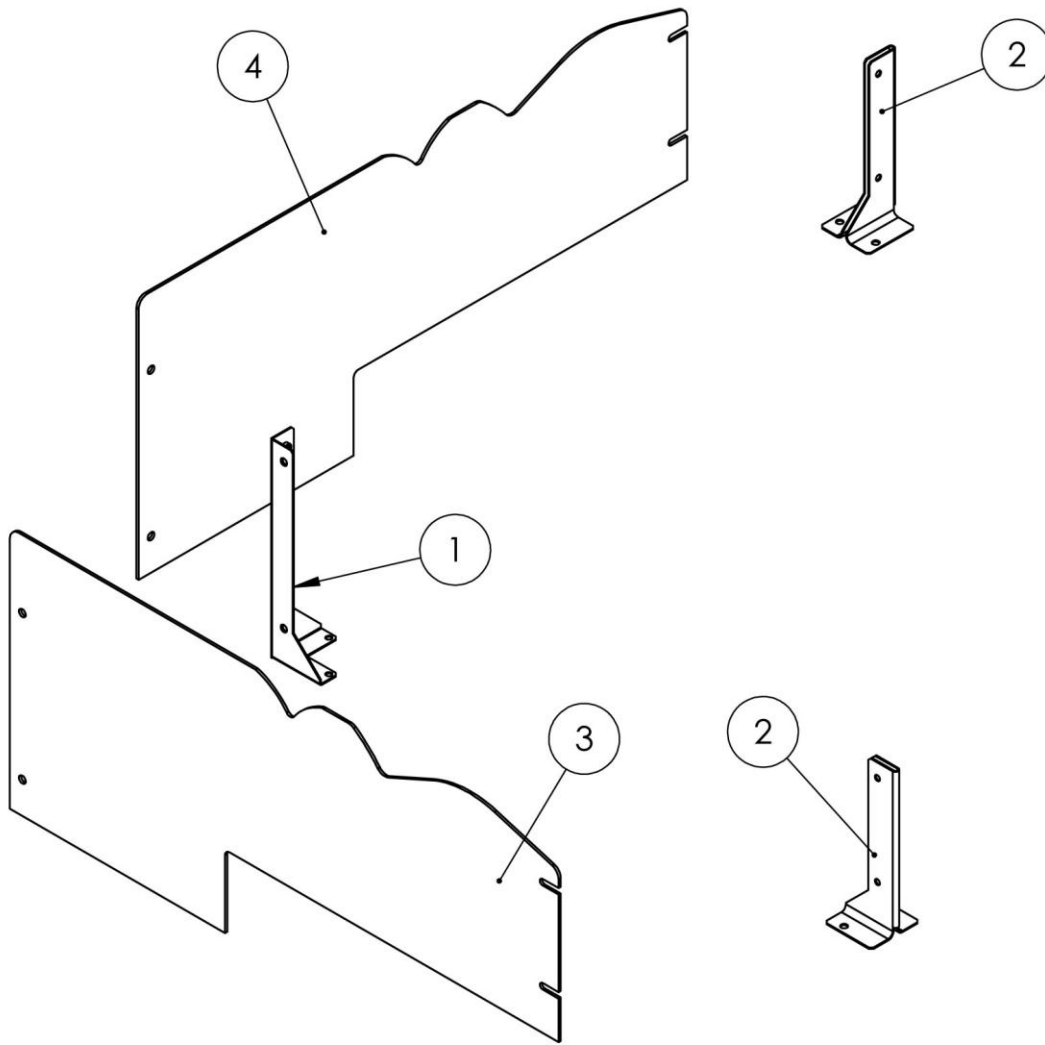
| Item | Part No. | Description | QTY |
|------|----------|-------------|-----|
| 1 | 600-01861-01 | BRACKET-CORNER-WIRE-WD | 1 |
| 2 | 600-01862-01 | BRACKET-EDGE-WIRE-WD | 2 |
| 3 | 606-01204-01 | DECAL-LEFT-REAR-BARBED-WIRE-WD | 1 |
| 4 | 606-01205-01 | DECAL-RIGHT-REAR-BARBED-WIRE-WD | 1 |

# Electrical Wiring

55" LCD DISP

RELAY CONTROLLED POWER 120V/240V

VIDEO OUT
DVI
USB AUDIO ADAPTOR
USB-A
USB-A
USB-A
AUDIO OUT
SECURE KEY
TO UMC

FROM 12V P.S.
TO RIO PCB
5VDC REGULATOR PCB
12V
GND
5V
5V

CABINET COOLING FAN 2X
FAN 12VDC
ORG
BLK
1
2

AC POWER MAIN
~ AC(VL)
PC WATCHDOG RELAY
MAGNECRAFT
PN 6210AXXSZS-DC3
VID ORG
GRN

CAB SOUND AND LIGHT SYSTEM POWER
24V
12V
24V
RECOIL PCB POWER
GND
24V
BLK
YEL
GND
12V
BLK
ORG

TO DASH AND ROOF LIGHTING
VHT BLU
VID RED
VID GRY
VID BRN
VID BLK
VID YEL
VHT GRY
VHT ORG
RED 2X
BLK

VID ORG GRN
VID ORG
BLK
BLK
BLK
VID GRN
BLK
GRY
BLK
RED
BLK DRG
BLK
BLK 2X
GND
GND
DRG 2X
GND
12V FUSED

P8
P1 GUN MNT EDGE
P2 GUN MNT EDGE
P1 GUN MNT PUCK GRN
P2 GUN MNT PUCK GRN
ROOF LED RED
ROOF LED BLU
P1 START 5V
P2 START 5V
5V+

P2
USB-B
P11
5V STBY SV
PC PWR ON
GND DIG
GND PC
GND DIG
12V IN
5V STBY
5V IN FROM REG PCB
GND DIG
GND DIG
GND AUDIO
12V AUDIO PWR

P1
GND
GND
GND
12V FUSED
AUDIO IN

J3

L SPKR(+)
L SPKR(-)
R SPKR(+)
R SPKR(-)
WOOFER(+)
WOOFER(-)
P9

P6
P7
12V PWM
12V PWM
12V PWM
GUN MNT PUCK BLU
SQ MARQUEE
REAR DOOR RED
REAR DOOR GRN
REAR DOOR BLU
RECT MARQUEE 1
RECT MARQUEE 2
RECT MARQUEE 3
RECT MARQUEE 4
P1 START LMP
P2 START LMP
REAR CAB PDST
REAR CAB RED
REAR CAB VHT
ZOMBIE EYES
GND DIG
GND DIG

P4
COIN MTR
COIN_1
COIN_2
TEST
DBV
SERVICE
VOL +
VOL -

GRY RED
GRY BLK
BRN RED
BRN RED
RED DRG
GRY VHT (2X)
GRY VHT

VHT GRN
PNK GRN
PNK GRN
PNK BLU
VID BLU
VID GRN
PNK BRN
YEL BRN
YEL BLK
YEL RED
YEL VID
ORG
ORG
DRG
DRG
YEL GRN
YEL BLU
YEL GRY
YEL VHT
YEL
YEL PNK
YEL BRN
BLK
BLK

BRN YEL
GRY BRN
GRY BLU
VID
DRG
DRG RED
DRG GRN
BLK

TO REAR CABINET LIGHTING
TO FRONT CABINET LEFT AND RIGHT SPEAKERS
TO UNDER-SEAT WOOFERS X2

CABINET WOOFER 2X PI/P2 UNDER SEAT
8" 8 ohm
RIGHT TOP/BTTM
LEFT TOP/BTTM

COIN DOOR
5V
BRN YEL
VID
DRG RED
DRG GRN
BLU
TEST
VOL+
VOL-
SERVICE-
COIN 1
COIN 2
GRY BRN
GRY BLU
BLK
GRY DRG
DRG
GND
DBV
12V

COIN DOOR
FIELD GND
COIN MTR

# USB MOTION CONTROLLER PCB (UMC)

TO P1 AND P2 GUNS

PNK ORG
YEL GRN

FROM PC

USB-B

P9

P1 GUN LED
P2 GUN LED

GUN SOLENOID FUSE: 2A SLO-BLO

GUN COILVDC IN
GUN COILVDC IN
GUN COILVDC OUT
GUN COILVDC OUT
GUN COILGND

BLK YEL
BLU VHT
BLU RED
YEL RED

5VDC OUT
GND

YEL
BLK

P2 COIL OUT_1
P2 COIL OUT_2
P1 COIL OUT_3
P1 COIL OUT_4
GUN COIL GND

YEL ORG
BLU ORG
BLU BLK
BLK YEL

5VDC OUT
GND

BLK
RED

12VDC IN
GND

RED
ORG

P1 GUN-X POT
P1 GUN-Y POT
P2 GUN-X POT
P2 GUN-Y POT

GRN BLK
GRN VHT
GRN BLU
GRN ORG

P2 TRIGGER SV
P1 TRIGGER SV

BRN VIO

P1 RELOAD SV
P2 RELOAD SV

BRN GRN

P10

P8

TO P1 AND P2 GUNS

TO P1 AND P2 GUNS

P2 GUN

GRN YEL X2
BLK

RED BLK
BRN GRY
YEL GRN
YEL ORG
BLU VHT
BLU RED
GRN BLU
GRN ORG
RED
RED
BLK
BLK
BLK

ORG YEL

1 FIELD GND
2 GND
3
4
5
6
7
8
9
10
11 COIL #1 SIG
12 COIL #2 SIG
13 24V+ COIL POWER
14
15 5V+
16 RELOAD
17 LED
18 12V+
19 GND
20 GND

P1 GUN

GRN YEL X2
BLK

RED ORG
BRN ORG
PNK ORG
ORG YEL
YEL ORG
BLU ORG
BLU BLK
GRN VHT
GRN BLK
RED
RED
BLK
BLK

1 FIELD GND
2 GND
3
4 A/B GND
5 A/B GND
6 A/B 5V+
7 A/B 5V+
8 GUN X-AXIS
9 GUN Y-AXIS
10
11 COIL #1 SIG
12 COIL #2 SIG
13 24V+ COIL POWER
14
15
16
17
18 LED
19 12V+
20 GND

# Contact Information

For an authorized distributor near you, visit Raw Thrills at http://www.rawthrills.com/sales-service

For service, contact your local distributor or your local Betson office for sales, technical information, warranty or repair. Betson can be reached at (800) 524-2343   Fax (201) 438-4837 www.betson.com

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