

KING KONG

MYTH OF TERROR ISLAND™

SERVICE AND OPERATION MANUAL



WARNING

IMPORTANT HEALTH WARNING: PHOTSENSITIVE SEIZURES - A very small percentage of people may experience a seizure when exposed to certain visual images, including flashing lights or patterns. Even people with no history of seizures of epilepsy may have an undiagnosed condition that can cause "photosensitive epileptic seizures" due to certain visual images, flashing lights or patterns. Symptoms can include lightheadedness, altered vision, eye or face twitching, jerking or shaking of arms or legs, disorientation, confusion, momentary loss of awareness, and loss of consciousness or convulsions that can lead to injury from falling down or striking nearby objects.

IMMEDIATELY STOP PLAYING AND CONSULT A DOCTOR IF YOU EXPERIENCE ANY OF THESE SYMPTOMS.

ATTENTION! IMPORTANT WARRANTY INFORMATION

The electronics system, node network architecture, mechanical devices and associated software control systems in this pinball machine are designed to work with genuine Stern Pinball accessories and devices.

Installation of non-authorized accessories, lamps, LED's, motors or other devices or modification of electro-mechanical devices may damage the system and may void your warranty.

Stern Pinball machines are assembled in Elk Grove Village, Illinois, USA. Stern Pinball has inspected each game element to ensure it meets our quality standards.

Each pinball machine has unique characteristics that make it a one-of-a-kind American made product. Each will have variations in appearance resulting from differences in the machine's particular wood parts, individual printed art and mechanical assemblies. No playfield is perfectly flat and varies depending on the season. Game play will result in playfield dimpling as the harder steel ball contacts the wood and coating; over time multiple dimples will blend to make them less noticeable. Normal plastic insert crazing (tiny stress cracks) and ghosting (small cloudy areas around insert edges) are often seen in pinball machines, due to a combination of plastic mold stress, pushing of inserts into purposely undersized holes, and heating and breaking of inserts' plastic "skin" when the playfield is sanded.

KING KONG
MYTH OF TERROR ISLAND™
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Games configured for North America operate on 60 cycle electricity only. These games will not operate in countries with 50 cycle electricity (Europe, UK, Australia).



MANUAL #780-50Z6-00

KING KONG: MYTH OF TERROR ISLAND™ LE #500-55Z6-01

KING KONG: MYTH OF TERROR ISLAND™ PREMIUM #500-55Z7-01

1-800-KICKERS - service@sternpinball.com
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1. SETUP AND MOVING

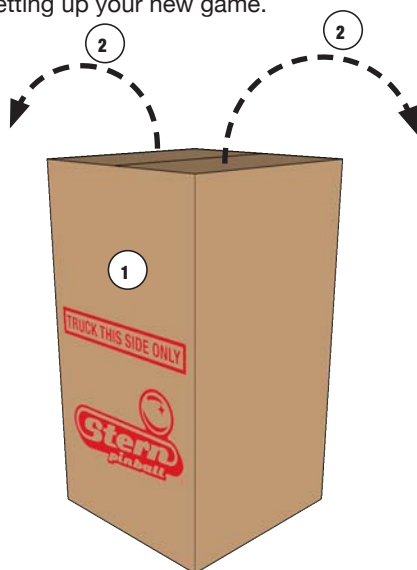
1.1 FIRST-TIME SETUP INSTRUCTIONS

Your brand new Stern Pinball Machine is carefully packed for safety and security. For your safety, exercise caution and use the correct tools and sufficient help when setting up your new game.

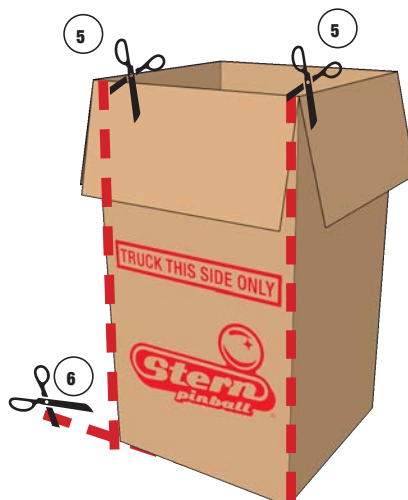
TOOLS REQUIRED

- 5/8" Socket Wrench
- Utility Knife
- Snips
- An Assistant

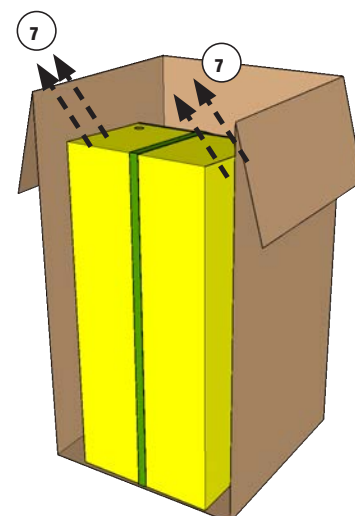
CAUTION: AT LEAST TWO (2) PEOPLE ARE REQUIRED TO MOVE AND MANEUVER THE GAME. USE PROPER MOVING EQUIPMENT AND EXTREME CARE WHILE HANDLING. STERN PINBALL MACHINES WEIGH OVER 250LBS BOXED.



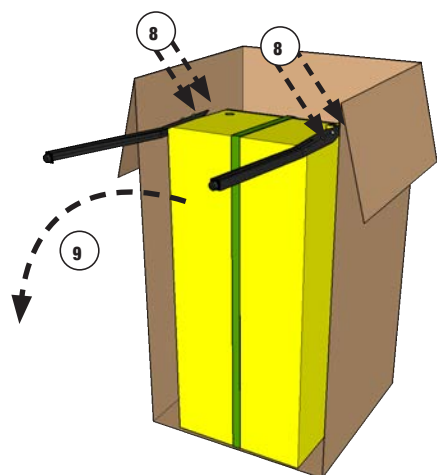
1. Locate the side labeled "TRUCK THIS SIDE ONLY". The bottom of the game faces this side.
2. Open the top box flaps by pulling hard in an upward motion on each flap. If the flaps are taped, cut the tape first, taking care to avoid the box staples.



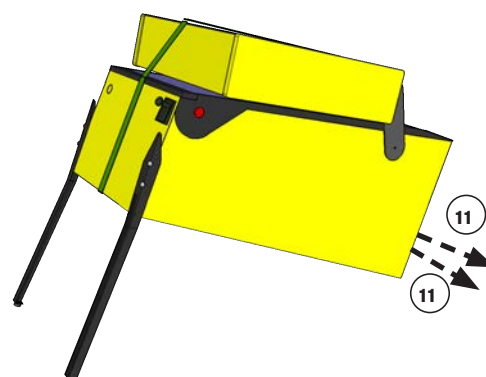
3. Remove the four (4) foam pieces and two (2) narrow box tubes which contain the four (4) identical legs with levelers.
4. DO NOT CUT STRAPPING YET. Keep backbox secured in the down position.
5. With the utility knife, carefully cut down the left and right corners of the box.



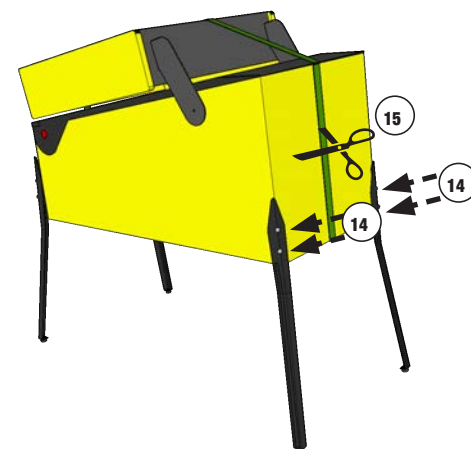
6. Let the face fall forward and remove the entire side by carefully cutting the bottom.
7. With the game still in its folded position, use a 5/8" wrench to loosen and remove the 2 leg bolts on each side of the front cabinet. Ensure the leg levelers are screwed all the way into the legs.



8. Install front legs using the bolts removed from the cabinet. Secure tightly.
9. Have someone help you carefully set the game down on the front legs.



10. Set aside the open box.
11. With a 5/8" socket wrench, loosen and remove the 2 leg bolts on each side of the rear cabinet, 4 total.

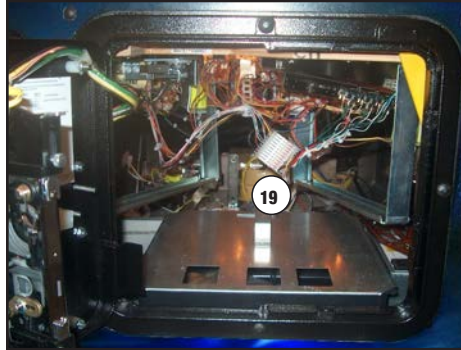


12. Using supports or two people, prop the rear of the cabinet up.
13. Ensure the rear leg levelers are screwed all the way into the legs.
14. Install rear legs using the 4 bolts removed from step 11.

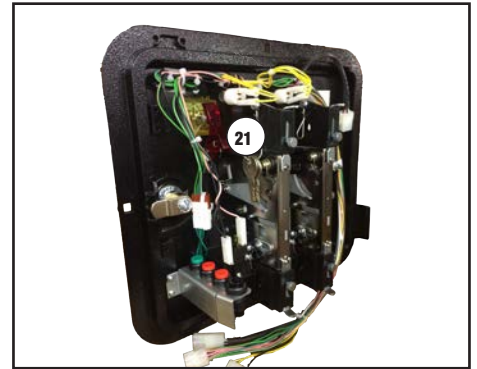
FIRST-TIME SETUP CONTINUED



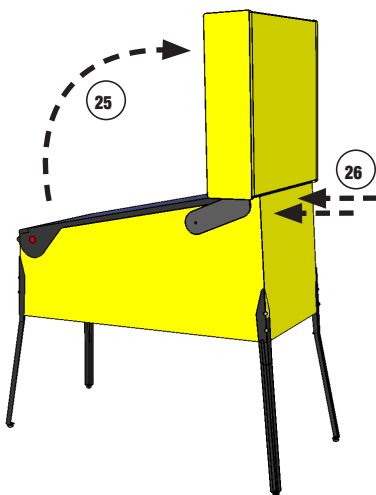
15. Cut nylon strapping and remove protective strap corner guards.
16. Locate the factory keys, either on the shooter rod or taped to the playfield glass.
17. Using snips, cut the tie-wrap securing the keys if required. One set of keys is for the front coin door, the other set of keys is for accessing components in the backbox.



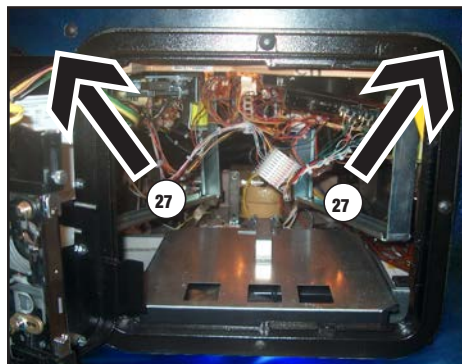
18. Open the front coin door.
19. Reach into the game and remove the retaining clip at the rear of the cash box.
20. Remove the cash box lid by sliding it toward you.



21. Store the backbox keys, if desired, on the metal hook located in the coin door.
22. Locate and remove the pinballs, plumb bob, and backbox bolts from the cash box.
23. Replace the cash box lid and retaining clip for future use.



24. Locate the two (2) backbox bolts in the cash box.
25. Carefully raise backbox to upright position while ensuring that cables are not pinched.
26. Use the 5/8" wrench to install the two (2) backbox bolts to secure the backbox as indicated on the back of the cabinet.



27. Reach inside the cabinet and lift the two latches located on either side of the coin door.
28. Remove the front top molding.



29. Remove the playfield glass by sliding it toward you and carefully place it in a safe location. Remove all playfield shipping tie downs, shipping blocks, and packing foam, and follow any game-specific unpacking instructions included in the playfield, if present.

CAUTION: PLAYFIELD GLASS IS MADE FROM HIGH-STRENGTH TEMPERED GLASS. TEMPERED GLASS IS SENSITIVE TO EXTREME TEMPERATURE SHIFTS AND CORNER NICKS, WHICH CAN CAUSE THE GLASS TO FAIL CATASTROPHICALLY. TAKE CARE TO STORE THE GLASS ON A SOFT, ROOM-TEMPERATURE SURFACE AND PREVENT THE CORNERS FROM BEING DAMAGED.



FIRST-TIME SETUP CONTINUED

30. If pinballs were already installed into the lower ball trough, remove them before lifting the playfield.
31. Grasp the lower arch between the flippers, and firmly but gently pull directly up to raise the playfield 8 to 12 inches.
32. While holding the playfield up, pull the playfield toward you until the two playfield supports are over the front edge of the cabinet.
33. Rest the playfield on the front edge of the cabinet.
34. Raise the playfield and rest it against the backbox.
35. Visually inspect all cabinet cables and connector terminations; ensure no wires or cables are pinched and that cable harnesses are not pulled tight.
36. Locate the plumb bob in the parts bag in the cash box.
37. Slide plumb bob onto the hanger wire. Note: the vertical position of the plumb bob affects tilt sensitivity - higher makes the game more sensitive to tilting.
38. Tighten the thumb screw finger-tight.
39. Install the correct number of pinballs. Refer to the decal on the lock down assembly for the correct number of pinballs.

LOCATING, LEVELING, AND FINAL SETUP

1. Select a location that is indoors, out of direct sunlight, and climate controlled. Excessive moisture/humidity can cause long-term damage to your game.
2. Adjust the front or rear levelers as necessary to position the playfield level bubble, located on the front right of the playfield next to the shooter lane, to float between the two (2) black lines. This will place the playfield at the recommended 6.5° pitch. Playfield angles greater than 6.5° can be achieved by turning out the rear leg leveler(s) for increased difficulty and faster gameplay.
3. Use a pinball to roll down the center of the playfield for side-to-side leveling, or use an external bubble level, digital level, or smartphone level app.
4. Plug into a grounded outlet and check for proper operation through DIAGNOSTICS.
5. Check the coin door: With the door closed, insert coins to verify proper operation.
6. Play game: Check for satisfactory operation and adjust game volume (push the Red Buttons inside the Coin Door).
7. If desired, perform any game diagnostics, game adjustments, and pricing settings at this time.

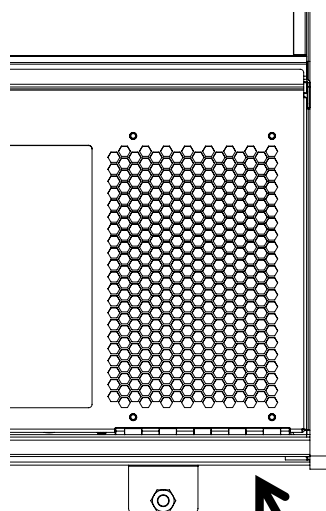
SPIKE PINBALL SOFTWARE UPDATE INSTRUCTIONS



1. Obtain game software update file (filename ends in ".spk") from www.sternpinball.com or from authorized Stern distributor.
2. Place game software update file (".spk") in root directory of a blank FAT32-formatted USB flash drive (NTFS Format will also work)
3. Use backbox power switch to turn off game
4. Plug in USB flash drive to CPU board USB connector (CN9).
5. Turn on game
6. The game will automatically begin software update
7. Select the correct .spk update file from list.
8. Press Enter on the service switches to start update
9. When the display indicates "Update Complete", turn off game
10. Remove USB flash drive from CPU board
11. Turn game on to complete the update and play pinball!
12. Detailed instructions and troubleshooting tips are available in the game manual, www.sternpinball.com and authorized Stern distributors.
13. If the game is connected to the internet, and registered to an Insider Connected account, the software can be automatically downloaded and installed.

POWER SWITCH

The game's power switch is located on the right-hand side underneath the backbox.



ON/OFF Switch



1.2 SERVICE MENU NAVIGATION

The four service buttons (inside Coin Door) have multiple functions. The buttons react differently depending on what state the game is currently in.

FUNCTIONS DURING GAME OR ATTRACT MODE

PRESS  SELECT for SERVICE MENU			
			
BACK			SELECT
Green Press to add service credit(s).	Left Red Press to decrease the volume (quieter).	Right Red Press to increase the volume (louder).	Black Press to enter the Service Menu.

FUNCTIONS DURING SERVICE MENU

PRESS  SELECT for SERVICE MENU			
			
BACK			SELECT
Green Press to go back to the last menu or exit.	Left Red Press to move highlighted option up.	Right Red Press to move highlighted option down.	Black Press to Select the current highlighted option.

FUNCTIONS WHEN MAKING ADJUSTMENTS

PRESS  SELECT for SERVICE MENU			
			
BACK			SELECT
Green Press to cancel change.	Left Red Press to decrease the current adjustment.	Right Red Press to increase the current adjustment.	Black Press to confirm / save the change.

SERVICE MENU



The first screen when entering the Service Menu contains information about your game.

- A. IP Address** - Shows the current IP Address the game is receiving from the network.
- B. Config ID** - Your game's unique identifier to the servers. This comes from the CPU and game version.
- C. Firmware Versions** - This will have two versions shown, they are for the overall software running the game.
- D. Network Status** - Shows the current Wi-Fi signal and network name, or Wired Connection.
- E. Game Title** - Shows the game title and version. This comes from the software installed.
- F. Game Code** - Shows the current software version installed.
- G. QR Code** - Scanning this QR Code will bring you directly to Insider Connected.
- H. Status Symbol** - This is a quick glance to see if the game is registered.



SERVICE MENU CONTINUED



Pressing the Select button will continue to the Main Menu. While in the Main Menu, pressing the Back/Escape button will exit back to the game.

Use the volume buttons to change the option highlighted. In the image above, Quick Adjustments is highlighted, and pressing the Select button will enter that menu.



Quick Adjustments has the more common settings that help for a quick setup of the game.

Pressing the volume buttons will move through the options here. Pressing Select on an option allows the volume buttons to change current value/setting. Save the change with the Select button, or cancel the change with the Back/Escape button.

To go back to the previous menu, press the Back/Escape button.

Service Menu Table Of Contents

Quick Adjustments

Diagnostics

- Switch Test
- Coil Test
- LED Test
- Node Board Test
- Technician Alerts

Device Tests

- Ball Trough Test
- Sound/Speaker Test
- Game Specific Device Tests

Audits

- Play Counts
- Awards
- Scores
- Time
- Earnings Audits
- Diagnostic Audits
- Game Play Audits
- Dump Audits to USB
- Dump Audits to USB (Comp)

Adjustments

- Pricing
- Game Play Settings
- Machine Settings

Stern Insider Connected™

- About
- Setup Connection
- Test Connection
- Game Registration
- Software Update
- Setup Home Team™
- Change Settings

Utilities

- Presets
- Start Guided Setup
- Enter Custom Message
- Save Settings
- Restore Settings
- Resets

Tournament Menu

Redemption Menu

SERVICE MENU DEFINITIONS

Quick Adjustments

- » The most commonly changed adjustments are located here.

Diagnostics

- **Switch Test**
- **Coil Test**
- **LED Test**
- **Node Board Test**
- **Technician Alerts** (located here in addition to the main page)

Device Tests

- **Ball Trough Test**
- **Sound/Speaker Test**
- **Game Specific Device Tests**

Audits

- **Play Counts**
 - » Counts of games and balls played, plus any play count specific audits unique to the game.
- **Awards**
 - » Counts of replays, extra balls, specials, and matches awarded, plus any award specific audits unique to the game.
- **Scores**
 - » Counts of game scores, split into divisions of score ranges.
- **Time**
 - » Average ball and game time, plus counts of total game time, split into divisions of time ranges.
- **Earnings Audits**
 - » Counts of coins deposited, credits paid, service credits and other counts related to money and earnings.
- **Diagnostic Audits**
 - » Counts of ball searches, lost balls, power on time, and other counts related to machine operation.
- **Game Play Audits**
 - » Game audits unique to the game.
- **Dump Audits to USB**
 - » Save the audits to a text file on a USB storage device. Includes Game and Location IDs set via the machine adjustments. Audit text will include mixed upper/lower case letters.
- **Dump Audits to USB (Comp)**
 - » Save the audits to a text file on a USB storage device, in a format . similar to previous software release. Game and Location IDs will not be present in this file, and all audit text will be upper case only.

Adjustments

- **Pricing**
 - » Game pricing and coin door settings, and on-screen credit formatting options.
- **Game Play Settings**
 - **Player and Ball Settings**
 - » Ball and players per game, tilt adjustments, ball save timer and plunger settings.
 - **Game Settings**
 - » Game play adjustments unique to the game.
 - **Game Types**
 - » For games with multiple types of play modes, the enabling and disabling of these play types.
 - **Standard High Scores**
 - » High score default scores and award settings. High score initial entry settings and how often they will be reset.
 - **Game High Scores**
 - » Game specific high scores defaults.

Machine Settings

- **Machine Operation**
 - » Controls how the start and action buttons behave, the ticket dispenser settings and the Game and Location IDs (used for audit dumps).
- **Devices**
 - » Allows you to disable certain game devices, so the game will ... continue to function while repairs are being made.
- **Coil Settings**
 - » Adjust the power settings of flippers and coils, and any settings relevant to any game specific devices.
- **LCD/Lamp**
 - » Brightness settings for lamps and the LCD screen.
- **Audio Settings**
 - » Main volume settings, plus any individual volume settings specific to this game.
- **Audio Configuration**
 - » Speaker, Volume, and sound setup settings.
- **Attract Mode**
 - » Control of some attract mode displays.

Stern Insider Connected™

- **About**
 - » Network connection details
- **Setup Connection**
 - » Connect this game to the internet.
- **Test Connection**
 - » Test the machine's internet connection.
- **Game Registration**
 - » Register this game with Stern Insider Connected. Display the .. registration details, and unregister games.
- **Software Update**
 - » Check for, download, and install any software updates. Enable/Disable updates and change the download scheduling.
- **Setup Home Team™**
 - » For non-commercial settings, scan players to the Stern Insider . Connected™ account, so connected games can be played without having to scan in each time.
- **Change Settings**
 - » Stern Insider Connected™ related adjustments, including start . button behavior, play again times, and home team settings.

Utilities

- **Presets**
 - » Change the game settings en-mass from a selection of grouped adjustment settings.
- **Start Guided Setup**
 - » Enter the guided setup menu, setting up the machine for the first time.
- **Enter Custom Message**
 - » Enter a message unique to this specific game that will **display in the attract mode.**
- **Save Settings**
 - » Save the settings to a USB storage device.
- **Restore Settings**
 - » Restore the settings from a USB storage device.
- **Resets**
 - » Allows resetting coin, game, and high score audits, credits, audio and other settings back to default values.

Tournament Menu

- » Allows the configuration of a built-in tournament on this game.

Redemption Menu

- » Allows the configuration of a game that dispenses tickets during game play.

1.3 GAME PRICING REFERENCE TABLE

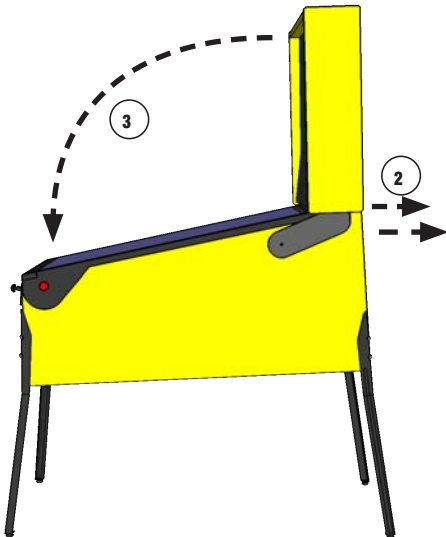
Country	ID	Pricing (Credits / Cost)						Unit per Pulse	Coin Door Pulse Settings					
									Left	Center	Right	4th	5th	6th
Australia	1	1/\$1.00 AU	3/\$2.00 AU					\$0.10 AU	2	10	20	50	5	0
	2	1/\$1.00 AU												
	3	1/\$2.00 AU												
	4	1/\$2.00 AU	2/\$4.00 AU	3/\$5.00 AU										
	5	1/\$2.00 AU	2/\$3.00 AU											
Canada	1	1/\$0.50 CN	2/\$0.75 CN	3/\$1.00 CN				\$0.25 CN	1	1	4	8	0	0
	2	1/\$1.00 CN	3/\$2.00 CN					\$1.00 CN	1	1	2	2	0	0
China	1	1/5 Yuan	3/10 Yuan					1 Yuan	1	1	1	0	0	0
	2	1/10 Yuan	2/15 Yuan											
Croatia		1/3 kuna	2/5 kuna					1 kuna	1	2	5	1	0	0
Denmark	1	1/3 DKr	2/5 DKr					1 DKr	1	5	10	20	0	0
	2	1/2 DKr	2/4 DKr	3/5 DKr	4/7 DKr	5/9 DKr	7/10 DKr							
	3	1/5 DKr												
	4	1/10 DKr												
	5	1/20 DKr												
	6	1/10 DKr	3/20 DKr											
Euro	1	1/EUR 0.50						Electronic EUR 0.10	5	10	20	2	0	0
	2	1/EUR 0.50	2/EUR 1.00	3/EUR 1.50	5/EUR 2.00									
	3	1/EUR 0.50	3/EUR 1.00											
	4	1/EUR 1.00	2/EUR 2.00	3/EUR 3.00	5/EUR 4.00									
	5	1/EUR 1.00	3/EUR 2.00											
	6	1/EUR 1.00	2/EUR 1.50	3/EUR 2.00										
	7	1/EUR 1.00	3/EUR 2.00	7/EUR 3.00				Mechanical EUR 0.10	5	1	5	1	0	0
	8	1/EUR 1.00	4/EUR 2.00											
	9	2/EUR 1.00	4/EUR 2.00	6/EUR 3.00	9/EUR 4.00									
	10	1/EUR 2.00	2/EUR 3.00	3/EUR 4.00										
	11	1/EUR 2.00	2/EUR 4.00	3/EUR 5.00										
	12	1/EUR 2.00	3/EUR 4.00	7/EUR 6.00										
Indonesia	1	1/20000 Rp	2/40000 Rp	3/50000 Rp	4/60000 Rp	5/80000 Rp	8/100000 Rp	10,000 Rp	0	0	0	0	0	1
	2	1/20000 Rp	2/40000 Rp	4/50000 Rp	5/60000 Rp	6/80000 Rp	10/100000 Rp							
	3	2/20000 Rp	4/40000 Rp	6/50000 Rp	8/60000 Rp	10/80000 Rp	13/100000 Rp							
Japan	1	1/YEN 100						Yen 100	1	1	1	1	0	0
	2	1/YEN 100	3/YEN 200											
	2	1/YEN 200												
Lithuania		1/2 LTL						1 LTL	1	2	5	0	0	0
Middle East		1/1 token						1 token	1	1	1	1	0	0
New Zealand	1	1/\$1 NZ						\$1 NZ	1	1	2	1	0	0
	2	1/\$1 NZ	3/\$2 NZ											
	3	1/\$2 NZ	2/\$3 NZ											
Norway	1	1/10 Nkr						1 Nkr	1	5	10	20	0	0
	2	1/10 Nkr	3/20 Nkr											
	3	1/20 Nkr												
	4	1/20 Nkr	3/40 Nkr											
	5	1/5 Nkr												
Russia		1/5 RUB						1 RUB	10	5	1	1	0	0
South Africa	1	1/R2						R 0.50	1	2	4	10	0	0
	2	1/R3	2/R5											
Sweden	1	1/10 SKr	2/15 SKr	3/20 SKr				1 SKr	1	5	10	2	0	0
	2	1/5 SKr												
	3	1/10 SKr												
	4	1/20 SKr												
	5	1/10 SKr	3/20 SKr											
Switzerland	1	1/1 SwF	2/2 SwF	3/3 SwF	4/4 SwF	6/5 SwF		1 SwF	1	2	5	1	0	0
	2	1/2 SwF	2/4 SwF	3/5 SwF										
Taiwan		1/10 TWD						10 TWD	1	1	1	1	0	0
UK	1	1/2.00						10p	1	5	10	2	20	0
	2	1/1.00												
	3	1/50p	2/1.00	3/1.50	5/2.00									
	4	1/2.00	2/3.00	4/5.00										
	5	1/1.00	3/2.00											
USA	1	1/\$0.25						\$0.25	1	4	1	1	0	0
	2	1/\$0.50	2/\$0.75	3/\$1.00										
	3	1/\$0.50												
	5	1/\$0.50	2/\$1.00	3/\$1.50	5/\$2.00									
	7	1/\$0.50	2/\$1.00	4/\$1.50	6/\$2.00									
	8	1/\$0.50	3/\$1.00											
	9	1/\$1.00												
	10	1/\$0.75	2/\$1.50	3/\$2.00										
	11	1/\$1.00	3/\$2.00											
	12	1/\$0.25	2/\$0.50	3/\$0.75	5/\$1.00									
	13	1/\$1.00	2/\$2.00	3/\$3.00	4/\$4.00	7/\$5.00								

1.4 TRANSPORTING THE GAME

When transporting the game, such as in the back of a truck or with a hand truck, the game's backbox must be secured to prevent damage to the side rails.

1. SECURE THE BACKBOX

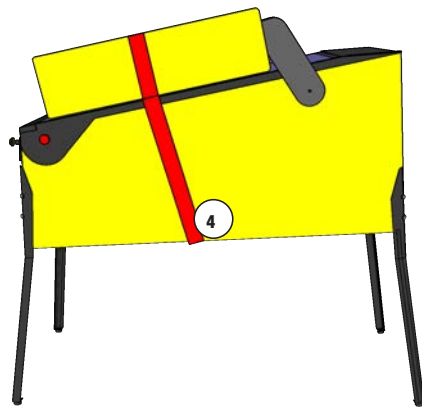
1. Ensure that the pinballs are removed from the playfield, and secure any free-moving mechanisms that may get damaged in transport.



2. Remove the backbox securing bolts.
3. Carefully lower the backbox onto the side rails. Use a piece of cardboard or suitable padding between the backbox and the game.

TOOLS REQUIRED

- STRAP (500LB OR GREATER)
- AN ASSISTANT
- HAND TRUCK

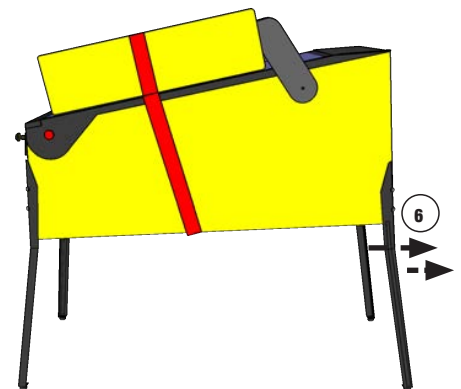


4. Securely strap the back box to the game.
5. The game may be transported with the legs on. If the legs must be removed, follow the remaining steps.

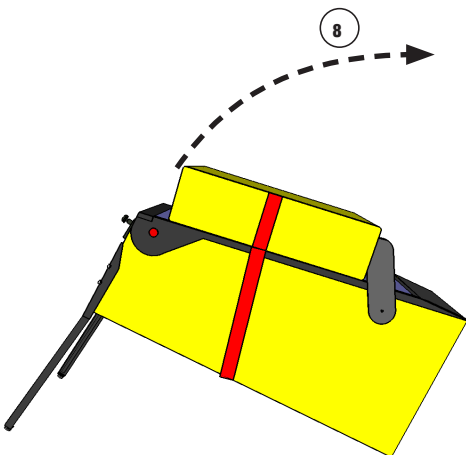
CAUTION

NEVER TRANSPORT THE GAME IN A MOVING VEHICLE WITH THE BACKBOX RAISED! TWO PEOPLE ARE REQUIRED TO REMOVE THE LEGS!

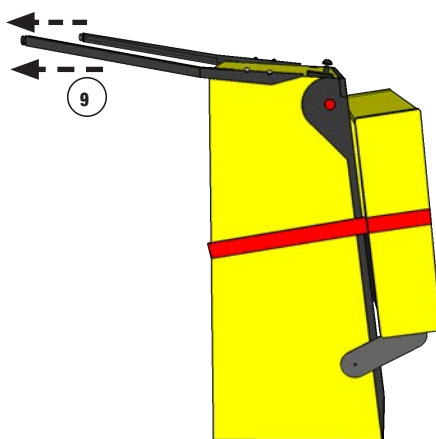
2. REMOVE THE LEGS AND STAND UP



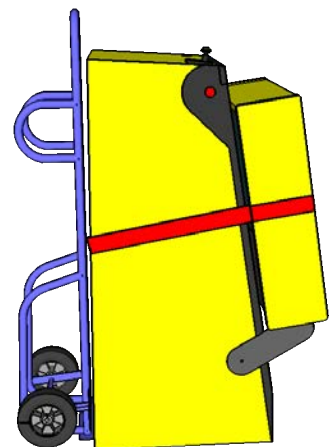
6. Remove the legs, rear legs first. Use a stool or a friend to support the rear of the game.
7. Rest the rear of the game on the ground.



8. Stand the game up on its back.



9. Remove the front two legs.



10. Secure all loose parts and transport with a hand truck in the upright position.

1.5 MAINTENANCE

REGULAR MAINTENANCE - (MONTHLY/500 GAMES)

- Remove the playfield glass
- Enter the software diagnostics menu, start lamp test, then clean and wax the playfield.
 - While cleaning the playfield, identify and repair malfunctioning lights, loose parts, cracked plastics and worn rubber parts.
- While in diagnostics, enter the switch test.
 - Use a pinball to actuate all switches and verify the correct switch registers with the switch test.
 - The game will play a sound to confirm the switch.
- Lift the playfield and inspect all assemblies for loose parts, broken wires or excessive wear. Look at the bottom of the cabinet for any parts that may have worked loose, then find the source.
- Check all coin door mechanisms and bill acceptor (if installed) for proper operation
- Play the game to ensure all coils and features are working
- Check the playfield to ensure it is level and set to the proper pitch using the bubble level on the right side wood rail.
- Check game audits: Replay % and Ball Time and note abnormal values which can indicate problems.
- Ensure game volume is set appropriately for the location.
- Clean both sides of the playfield glass and reinstall.
- Check and clean pinballs and replace if excessively worn or scuffed. Dirty pinballs accelerate game wear.

OVERHAUL MAINTENANCE - (5000 GAMES)

- Verify latest game software is installed
- Check flippers for excessive wear. Excessive flipper sloppiness (vertical or horizontal) or weakness indicates a flipper rebuild is required.
- Clean machine inside and out and check leg levelers for free operation.
- Visual check for loose or broken playfield and cabinet parts and repair as necessary.
- Electrical check: Plug into grounded outlet and check for proper operation through DIAGNOSTICS.
- Replace worn or dirty rubbers.
- Replace pinballs.
- Check all playfield switches with a pinball.
- Check all settings (refer to manual for factory settings).
- Check coin door: With door closed, insert coins to verify proper operation.
- Check for proper adjustment of the plumb bob tilt.
- Play game: Check for satisfactory operation.

COMMON PINBALL TOOLS

- Common nut drivers (1/4", 5/16", 11/32", 3/8")
- Phillips screwdriver
- Standard Allen wrench/Hex key set
- 5/8" Socket with ratchet
- Adjustable wrench (5/8" & 9/16")
- 6" Torpedo Level (or use a pinball)
- Flashlight or headlamp
- Soldering Iron (60w with flat tip), lead-free solder
- Wire cutter
- Wire stripper
- Long nose ("needle nose") pliers

1.6 MAINTENANCE KITS

Description	Part Number
King Kong LE / Premium Playfield Plastics Kit	803-5000-Z6
King Kong LE / Premium Playfield Decals Kit	802-5000-Z6
King Kong LE Backbox Decal Left	820-90Z6-01
King Kong Premium Backbox Decal Left	820-76Z7-01
King Kong LE Backbox Decal Right	820-90Z6-02
King Kong Premium Backbox Decal Right	820-76Z7-02
King Kong LE Cabinet Decal Left	820-90Z6-03
King Kong Premium Cabinet Decal Left	820-76Z7-03
King Kong LE Cabinet Decal Right	820-90Z6-04
King Kong Premium Cabinet Decal Right	820-76Z7-04
King Kong LE Cabinet Decal Front	820-90Z6-05
King Kong Premium Cabinet Decal Front	820-76Z7-05
King Kong LE / Premium Playfield, Bare	830-5100-Z6
King Kong LE Mirror Backglass	830-8426-Z6
King Kong Premium Translite Backglass	830-8427-Z7

1.7 COMMON PARTS

Description	Part Number
8 oz Pinball Playfield wax (Novus # 2)	675-0003-01
Standard Pinball, 1-1/16 in	260-5000-00
Flipper Rebuild Kit Left (Standard)	500-6307-10
Flipper Base Plate Kit Left	515-6617-01
Flipper Rebuild Kit Right	500-6307-00
Flipper Base Plate Kit Right	515-6617-00
Memory Card - SD 16GB	970-0140-16
Memory Card - MicroSD	970-0141-32
Wi-Fi Adapter	509-2023-02

2. SPIKE SYSTEM AND NODE GUIDE

2.1 SPIKE SYSTEM OVERVIEW

The SPIKE Pinball system is a rugged, distributed, and embedded platform custom-designed for the rigors of the pinball machine environment. SPIKE takes advantage of modern technologies to deliver an immersive pinball experience that supports modern features, reduces cabling, and increases serviceability and reliability.

A Stern Pinball machine based on the SPIKE system will have at least two nodes networked together with the SPIKE node bus, a custom industrial pinball control bus that is designed around industry standards and optimized for the pinball environment. The primary CPU node is networked to one or more input/output nodes over standard Category 5 UTP (unshielded twisted pair) Ethernet cabling.

There are five primary types of nodes that are found in the game.

- CPU node (Node 0) - The primary node that controls other nodes in the system. Contains the primary game software for the system and provides SPIKE node bus power for other nodes.
- Cabinet 48V node (Node 1) - Specialized node with specific inputs and outputs for coin doors, tilt mechanisms, and other bottom-cabinet devices.
- 48V playfield node - Controls high power devices such as coils and flashers, and also supports a few switch and low-power outputs. Powered by the system 48V power supply.
- Light and switch node - High-density switch and low-power LED outputs, bus-powered from the node bus. These boards contain as many as 32 switch inputs and light outputs.
- Node extensions - These sub-nodes add additional low-power input and outputs to a specific Power or I/O node and are connected with simple serial bus.

2.2 NODE BUS CABLING

The SPIKE node bus utilizes standard Ethernet-style RJ45 8-pin modular jacks, and off-the-shelf Category 5e or better Ethernet cabling. The node bus is electrically different from Ethernet and does not utilize Ethernet or TCP/IP protocols or signaling standards. SPIKE nodes are not compatible with standard computer networking equipment.

CAUTION: Plugging a SPIKE Node or CPU board into a standard Ethernet port may damage one or both devices and may void your warranty.

2.3 SYSTEM POWER

The SPIKE System is powered from an 48V DC power supply bus. Each SPIKE node converts this voltage to lower voltages required by the node and its specific components. A SPIKE 48V node typically controls high-power outputs such as game coil mechanisms and high-brightness LEDs. These powered nodes are supplied directly with 48V system power. SPIKE standard I/O nodes are low-power nodes that read switch inputs and output to standard-brightness LEDs. Standard I/O nodes use the node bus power, which is supplied by the main CPU node over the node bus modular jack connectors.

2.4 SPIKE NODE ADDRESSES

Each SPIKE node has a unique address ranging from 0 to 15. Not all addresses are used in all games. Nodes can be of the same part number, so the address is specified on the DIP switches on each node. When replacing a node, be certain that the correct address is set. Nodes can have 3-position and 4-position DIP switches. Refer to the appropriate table to set the address for each type of Node. The correct address for a node can be found in the SPIKE node reference section of the manual or in the game diagnostic software. Address 0 is reserved for the backbox CPU node, where the game software resides. Address 1 is reserved for the cabinet node, located inside the coin door. These two nodes do not have DIP switches as their address is not configurable.

Address	1	2	3
8	OFF	OFF	OFF
9	OFF	OFF	ON
10	OFF	ON	OFF
11	OFF	ON	ON
12	ON	OFF	OFF
13	ON	OFF	ON
14	ON	ON	OFF
15	ON	ON	ON

SPIKE node addresses for nodes with 3-position DIP switches. Addresses 0-7 are not used by SPIKE nodes with 3-position DIP switches.

Address	1	2	3	4
8	OFF	OFF	OFF	OFF
9	OFF	OFF	ON	OFF
10	OFF	ON	OFF	OFF
11	OFF	ON	ON	OFF
12	ON	OFF	OFF	OFF
13	ON	OFF	ON	OFF
14	ON	ON	OFF	OFF
15	ON	ON	ON	OFF

SPIKE node addresses for nodes with 4-position DIP switches. Addresses 0-7 are reserved for fixed-function nodes and do not require configuration.

SPIKE SYSTEM AND NODE GUIDE CONTINUED

2.5 SPIKE NODE PROGRAMMING

The SPIKE nodes are smart nodes that have on-board processors and run embedded code. The nodes are programmed automatically by the CPU node whenever software updates are installed to the CPU. When replacing a node, the CPU node will detect and update the node to the latest software with no user intervention. Always replace nodes with the power to the game turned OFF.

2.6 SPIKE SYSTEM TERMINOLOGY

MULTI GENERAL ILLUMINATION LIGHTING

General Illumination Lighting is two or more lights powered by one control source. These are often a number of LEDs connected in parallel and the system controls these as one large LED. A missing LED will not affect these circuits, however a shorted LED can cause the entire string of LEDs to turn off.

SINGLE LIGHTS

Single lights and LEDs are direct-controlled from SPIKE node boards. A common power source is grounded by individual transistors to turn individual LEDs on and off. Groups of LEDs, usually by node connector, share a common power source, so if a group of LEDs is out, check the wiring for the power source.

FLASHERS

SPIKE games treat flashers the same as single LEDs that draw more power. Flashers are controlled from the same circuits that power regular lights.

DRIVERS

A driver is a circuit that controls a high power-device such as a coil, magnet, or motor. Each device has a common 48V power source that is then connected to ground by a dedicated control transistor. Each driver is protected against shorting, static electricity, and over-current conditions. Take caution as 48V is always present on a device even when it is not energized.

OPTOS

Certain types of optical switches ("optos") require external signal conditioning. For these optos, they will interface to a SPIKE node via an opto signal conditioning board. Other optical switches connect directly to the Spike node board.

CAUTION: Unless explicitly directed by an Authorized Stern Repair technician, perform ALL work on your pinball machine with the power disabled!

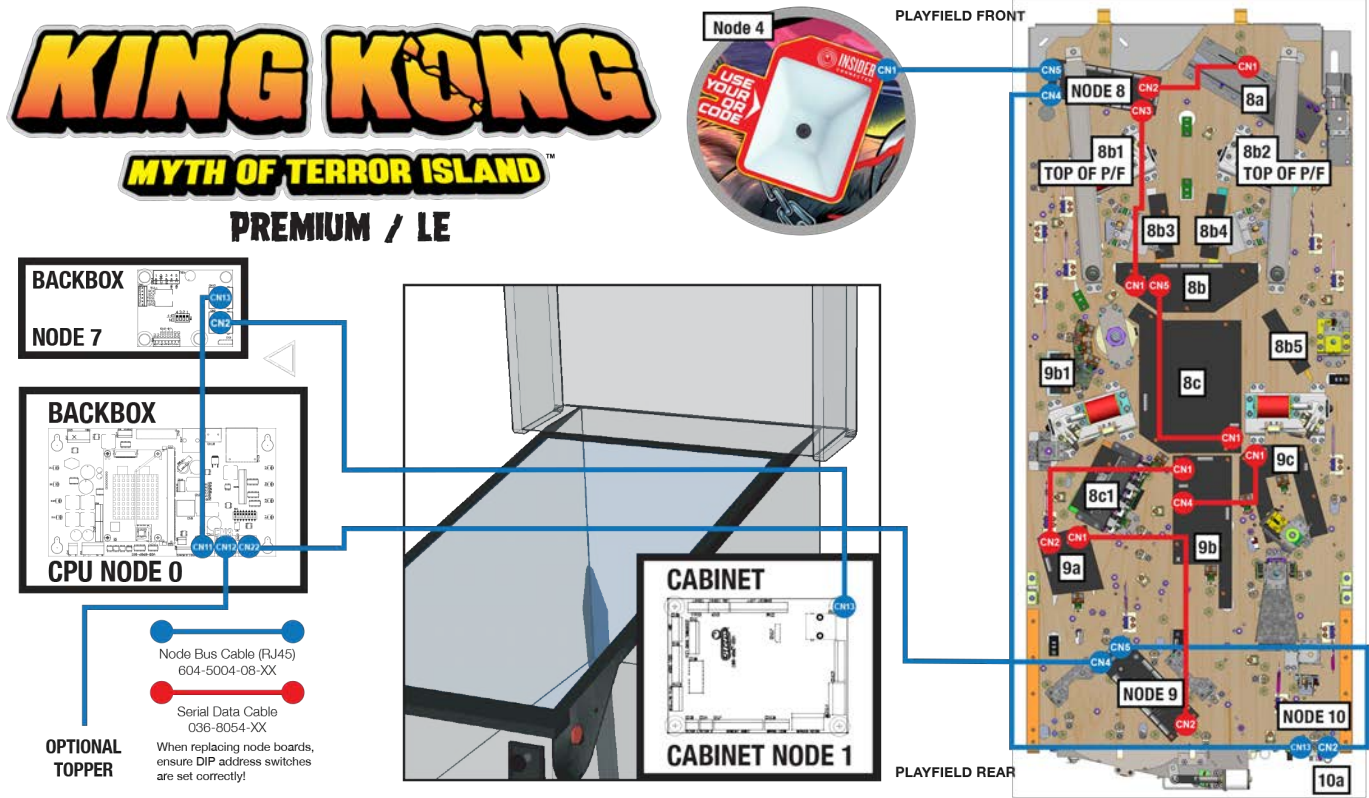
INPUT/OUTPUT PROTECTIONS

SPIKE features built-in short-circuit, static electricity, and other protections to maximize reliability. If an LED, coil or other device shorts, it will be disabled but will not shut down the entire system in most circumstances. Groups of LEDs, coils, and switches often share common power supplies or other circuits, so it is possible that a bad device will affect the group of related devices and require removal or repair to fix the group. The system diagnostics will inform the technician of shorted or otherwise malfunctioning devices whenever possible. While the system is protected against permanent damage, it is strongly recommended to repair or replace these bad components as soon as possible to minimize downtime and maximize game earnings.

2.7 COMMON SPIKE NODE BOARDS

Description	Type	Part Number
SPIKE CPU Node	Node	509-1003-01
Cabinet Node	Node	520-6967-72
Playfield 48V Core-Driver Node	Node	520-1070-00 520-1057-00
Trough Serial Opto Receiver Extension	Extension	520-8516-00
QR Scanner Assembly	Assembly	509-2020-00

3. LIGHT, SWITCH, AND DRIVER REFERENCE



3.1 SPIKE NODE BOARDS

ID	DIP Address	Description	Location	Part Number
Node 0	n/a	SPIKE 2 CPU Node	Backbox	509-1003-01
Node 1	n/a	Cabinet Node	Cabinet	520-6967-72
Node 4	n/a	QR Reader Node	Bottom Arch	509-2020-00
Node 7	OFF-OFF-OFF-ON	SPI Node Board (LE Option)	Backbox-LEDs	520-5370-72
Node 8	OFF-OFF-OFF-OFF	Core - Driver Node	Lower Playfield	520-1070-00 / 520-1057-00
8a	n/a	Trough Serial Opto Receiver Extension	Playfield	520-8516-00
8b	n/a	9W MC LED Board	Playfield	520-8668-00
8b1	n/a	3W BC LED Board	Playfield	520-8670-00
8b2	n/a	3W BC LED Board	Playfield	520-8670-00
8b3	n/a	3 W-MC LED Board	Playfield	520-8669-00
8b4	n/a	3 W-MC LED Board	Playfield	520-8669-00
8b5	n/a	2W1R LED Board	Playfield	520-8689-00
8c	n/a	24W MC LED Board	Playfield	520-8666-00
8c1	n/a	7W ML LED Board	Playfield	520-8671-00
Node 9	OFF-OFF-ON-OFF	Core - Driver Node	Playfield	520-1070-00 / 520-1057-00
9a	n/a	5W2R TL LED Board	Playfield	520-8663-00
9b	n/a	7W4R1F LED Board	Playfield	520-8664-00
9b1	n/a	3F LM LED Board	Playfield	520-8692-00
9c	n/a	7W2R1F TR LED Board	Playfield	520-8690-00
Node 10	OFF-ON-OFF-OFF	SPI Node Board	Backpanel	520-5370-72
10a	n/a	Multi-Servo Interface SPI Board	Backpanel	520-8685-00
Node 12	ON-OFF-OFF-OFF	Topper (Optional)	Topper	520-5370-72

3.2 DRIVER REFERENCE

ID	Name	Node	Connector	Ret. Pin	Ret. Wire	Voltage	V+ Pin	V+ Color	Location	Type	Address	Part Number
1	Trough	8	CN8	7	ORG GRY	48V	1-4	GRY ORG	Playfield	Coil - 27-1500	8-DR-1	090-5004-ND
2	Auto Plunger	8	CN8	9	ORG WHT	48V	1-4	GRY ORG	Playfield	Coil - 23-800	8-DR-4	090-5001-ND
3	Left Flipper	8	CN8	6	ORG YEL	48V	1-4	GRY ORG	Playfield	Coil - 22-1080	8-DR-5	090-5032-ND
4	Right Flipper	8	CN8	5	ORG GRN	48V	1-4	GRY ORG	Playfield	Coil - 22-1080	8-DR-0	090-5032-ND
5	Left Slingshot	8	CN8	11	ORG BLU	48V	1-4	GRY ORG	Playfield	Coil - 26-1200	8-DR-3	090-5044-ND
6	Right Slingshot	8	CN8	10	ORG VIO	48V	1-4	GRY ORG	Playfield	Coil - 26-1200	8-DR-2	090-5044-ND
7	Shaker Motor	1	CN16	1	BLU	48V	5	RED	Cabinet	Motor	1-DR-0	041-5029-04
8	Up L Flip	8	CN7	3	YEL BLK	48V	1	GRY ORG	Playfield	Coil - 22-1080	8-DR-6	090-5032-ND
9	Up R Flip	8	CN7	4	YEL BRN	48V	1	GRY ORG	Playfield	Coil - 22-1080	8-DR-7	090-5032-ND
10												
11	Spider Pit Magnet	9	CN8	5	BRN BLK	48V	1-4	GRY BRN	Playfield	Coil - 22-650	9-DR-0	511-5065-ND
12	Kong Cave VUK	8	CN7	2	YEL RED	48V	1	GRY ORG	Playfield	Coil - 24-940	8-DR-8	090-5036-ND
13	Kong Gong Latch	9	CN8	10	ORG BLK	48V	1-4	GRY BRN	Playfield	Coil - 32-1800	9-DR-2	515-8547-00 (090-5031-00-ND)
14	River Diverter	9	CN8	7	YEL VIO	48V	1-4	GRY BRN	Playfield	Coil - 26-1200	9-DR-1	090-5044-ND
15	4 Bank Drop Target	9	CN8	9	ORG RED	48V	1-4	GRY BRN	Playfield	Coil - 25-1240	9-DR-4	090-5034-ND
16	Center Ramp Diverter	9	CN7	4	YEL BLU	48V	1	GRY BRN	Playfield	Coil - 26-1200	9-DR-7	090-5044-ND
17	Kong Gong	9	CN8	6	YEL GRY	48V	1-4	GRY BRN	Playfield	Coil - 26-1200	9-DR-5	090-5044-ND
18	Kong Gong VUK	9	CN8	11	ORG BRN	48V	1-4	GRY BRN	Playfield	Coil - 23-800	9-DR-3	090-5001-ND
19	Kick Target	9	CN7	2	YEL ORG	48V	1	GRY BRN	Playfield	Coil - 24-940	9-DR-8	090-5036-ND
20	Train Lock	9	CN7	3	YEL GRN	48V	1	GRY BRN	Playfield	Coil - 23-800	9-DR-6	511-7954-00 (090-5088-00)
21												
22												
23												
24	King Kong Servo-Body	10	CN2	-	-	-	-	-	Backpanel	Servo	10-DR-5	041-5148-00
25	King Kong Servo-L Arm	10	CN3	-	-	-	-	-	Backpanel	Servo	10-DR-6	041-5148-00
26	King Kong Servo-R Arm	10	CN4	-	-	-	-	-	Backpanel	Servo	10-DR-7	041-5148-00
27												
28												
29												
30												
31												
32												
33	Coin Meter	1	CN3	2	BLK	12V	1	RED	Cabinet	Digital Out	1-DR-2	500-9946-00
34	Ticket Meter	1	CN4	2	BLK	12V	1	RED	Cabinet	Digital Out	1-DR-3	500-9946-00
35	Ticket Dispenser	1	CN11	3		12V	1		Cabinet	Digital Out	1-DR-4	

Continued on next page...



3.3 SWITCH REFERENCE

ID	Name	Node	Node Ext	Conn.	Input Pin	Input Wire	GND Pin	Ground Wire	Location	Type	Address	Part Number
1	Left Outlane-Lower	8	-	CN11	4	LGN RED	11/12	BLK ORG	Playfield	Rollover	8-SW-17	500-9935-04
2	Left Inlane-Inner	8	-	CN11	5	LGN ORG	11/12	BLK ORG	Playfield	Rollover	8-SW-18	500-9935-04
3	Left Outlane-Upper	8	-	CN11	8	LGN VIO	11/12	BLK ORG	Playfield	Rollover	8-SW-21	500-9935-04
4	Left Inlane-Outer	8	-	CN11	9	LGN GRY	11/12	BLK ORG	Playfield	Rollover	8-SW-22	500-9935-04
5	Right Inlane	8	-	CN11	6	LGN YEL	11/12	BLK ORG	Playfield	Rollover	8-SW-19	500-9935-04
6	Right Outlane	8	-	CN11	7	LGN BLU	11/12	BLK ORG	Playfield	Rollover	8-SW-20	500-9935-04
7	Left Slingshot	8	-	CN10	4	GRY BLU	8	BLK GRN	Playfield	Leaf	8-SW-30	180-5231-00
8	Right Slingshot	8	-	CN10	3	GRY VIO	8	BLK GRN	Playfield	Leaf	8-SW-29	180-5231-00
9	Left Flipper Button	8	-	CN9	4	GRY BRN	7	BLK GRN	Cabinet	Leaf	8-SW-25	180-5164-01
10	Right Flipper Button	8	-	CN9	3	GRY RED	7	BLK GRN	Cabinet	Leaf	8-SW-24	180-5164-01
11	Left Flipper EOS	8	-	CN10	6	GRY YEL	9	BLK GRN	Playfield	Leaf	8-SW-16	180-5149-00
12	Right Flipper EOS	8	-	CN10	5	GRY GRN	9	BLK GRN	Playfield	Leaf	8-SW-31	180-5149-00
13	UP Left Flipper Button	8	-	CN9	6	VIO	7	BLK VIO	Cabinet	Leaf	8-SW-27	180-5164-01
14	UP Right Flipper Button	8	-	CN9	5	VIO WHT	7	BLK VIO	Cabinet	Leaf	8-SW-26	180-5164-01
15	Trough 6	8	8a	CN14	-		-		Playfield	Opto	8-SW-32	520-5344-00 tx 520-8516-00 rx
16	Trough 5	8	8a	CN14	-		-		Playfield	Opto	8-SW-33	520-5344-00 tx 520-8516-00 rx
17	Trough 4	8	8a	CN14	-		-		Playfield	Opto	8-SW-34	520-5344-00 tx 520-8516-00 rx
18	Trough 3	8	8a	CN14	-		-		Playfield	Opto	8-SW-35	520-5344-00 tx 520-8516-00 rx
19	Trough 2	8	8a	CN14	-		-		Playfield	Opto	8-SW-36	520-5344-00 tx 520-8516-00 rx
20	Trough 1	8	8a	CN14	-		-		Playfield	Opto	8-SW-37	520-5344-00 tx 520-8516-00 rx
21	Trough Jam	8	8a	CN14	-		-		Playfield	Opto	8-SW-38	520-5344-00 tx 520-8516-00 rx
22	Shooter Lane	8	-	CN10	2	GRY WHT	7	BLK GRN	Playfield	Micro	8-SW-28	180-5157-01
23	UP Left Flipper EOS	8	-	CN12	8	PNK BLK	10	BLK RED	Playfield	Leaf	8-SW-14	180-5149-00
24	UP Right Flipper EOS	8	-	CN12	9	PNK BRN	10	BLK RED	Playfield	Leaf	8-SW-15	180-5149-00
25	Shooter Exit	8	-	CN12	7	WHT BLU	10	BLK RED	Playfield	Rollover	8-SW-13	500-9935-04
26												
27												
28												
29												
30	River Exit	8	-	CN11	10	LGN WHT	11/12	BLK ORG	Playfield	Rollover	8-SW-23	500-9935-04
31	Pit Target-Top	9	-	CN10	2	GRY BLK	7/8	BLK BLU	Playfield	Leaf, Target	9-SW-28	515-9783-00-00
32	Pit Target-Mid	9	-	CN10	3	GRY BRN	7/8	BLK BLU	Playfield	Leaf, Target	9-SW-29	515-9783-00-00
33	Pit Target-Bot	9	-	CN10	4	GRY RED	7/8	BLK BLU	Playfield	Leaf, Target	9-SW-30	515-9783-00-00
34												
35												
36												
37	Kong Cave Made	9	-	CN12	2	WHT BRN	10	BLK WHT	Playfield	Rollover	9-SW-8	500-9935-04
38	Kong Cave VUK	8	-	CN12	5	WHT YEL	10	BLK RED	Playfield	Micro	8-SW-11	180-5209-00
39												
40												
41	River Enter	9	-	CN13	2	PNK RED	10	BLK BRN	Playfield	Rollover	9-SW-0	500-9935-04
42	4 Bank Drop 1-Top	9	-	CN9	3	LGN ORG	7/8	BLK BLU	Playfield	Opto	9-SW-24	520-5252-14
43	4 Bank Drop 2	9	-	CN9	4	LGN YEL	7/8	BLK BLU	Playfield	Opto	9-SW-25	520-5252-14
44	4 Bank Drop 3	9	-	CN9	5	LGN BLU	7/8	BLK BLU	Playfield	Opto	9-SW-26	520-5252-14
45	4 Bank Drop 4-Bot	9	-	CN9	6	LGN VIO	7/8	BLK BLU	Playfield	Opto	9-SW-27	520-5252-14

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SWITCH REFERENCE CONTINUED

ID	Name	Node	Node Ext	Conn.	Input Pin	Input Wire	GND Pin	Ground Wire	Location	Type	Address	Part Number
46	Island Treasure	9	-	CN13	3	PNK ORG	10	BLK BRN	Playfield	Leaf, Target	9-SW-1	515-9784-00-00
47												
48												
49	X1	8	-	CN12	2	WHT BRN	7/8/9	BLK RED	Playfield	Leaf, Target	8-SW-8	515-9785-00-00
50	X2	8	-	CN12	3	WHT RED	7/8/9	BLK RED	Playfield	Leaf, Target	8-SW-9	515-9785-00-00
51	X3	8	-	CN12	4	WHT ORG	7/8/9	BLK RED	Playfield	Leaf, Target	8-SW-10	515-9785-00-00
52	X4	8	-	CN12	6	WHT GRN	7/8/9	BLK RED	Playfield	Leaf, Target	8-SW-12	515-9785-00-00
53												
54	Center Ramp Made Opto	9	-	CN11	4	TAN ORG	11/12	BLK GRY	Playfield	Opto	9-SW-17	515-0215-00 tx 515-0215-01 rx
55	Left Orbit Entrance Opto	9	-	CN11	5	TAN YEL	11/12	BLK GRY	Playfield	Opto	9-SW-18	515-0215-00 tx 515-0215-01 rx
56	Left Ramp Made Opto	9	-	CN11	6	TAN GRN	11/12	BLK GRY	Playfield	Opto	9-SW-19	515-0215-00 tx 515-0215-01 rx
57	Biplane Ramp Made Opto	9	-	CN11	7	TAN BLU	11/12	BLK GRY	Playfield	Opto	9-SW-20	515-0215-00 tx 515-0215-01 rx
58	Center Shot Enter Opto	9	-	CN11	8	TAN VIO	11/12	BLK GRY	Playfield	Opto	9-SW-21	515-0215-00 tx 515-0215-01 rx
59	Train Enter Opto	9	-	CN13	8	PNK GRY	10	BLK BRN	Playfield	Opto	9-SW-6	515-0215-00 tx 515-0215-01 rx
60	Train Lock Opto	9	-	CN13	9	PNK WHT	10	BLK BRN	Playfield	Opto	9-SW-7	511-2739-00 (520-8069-00tx) 511-2739-01 (520-8068-00rx)
61												
62	U-Turn Rollover	9	-	CN13	4	PNK YEL	10	BLK BRN	Playfield	Rollover	9-SW-2	500-9935-04
63	Left Orbit Spinner Opto	9	-	CN13	5	PNK GRN	10	BLK BRN	Playfield	Opto	9-SW-3	520-8541-00
64	Powerup Target	9	-	CN13	6	PNK BLU	10	BLK BRN	Playfield	Leaf, Target	9-SW-4	515-9785-00-00
65												
66												
67	Gong Hit Opto	9	-	CN12	3	WHT RED	10	BLK WHT	Playfield	Opto	9-SW-9	520-8686-00
68												
69												
70	Kong Gong VUK Opto	9	-	CN12	6	WHT GRN	10	BLK WHT	Playfield	Opto	9-SW-12	515-0215-00 tx 515-0215-01 rx
71	Right Spinner Opto	9	-	CN12	7	WHT BLU	10	BLK WHT	Playfield	Opto	9-SW-13	520-8541-00
72	Right Orbit	9	-	CN12	8	WHT VIO	10	BLK WHT	Playfield	Rollover	9-SW-14	500-9935-04
73	Kick Target	9	-	CN13	7	PNK VIO	10	BLK BRN	Playfield	Micro	9-SW-5	180-5010-04
74	2.42 Million Bananas	9	-	CN11	10	TAN	11/12	BLK GRY	Playfield	Rollover	9-SW-23	500-9935-04
75												
76												
77												
78												
79												
80												
81												
82												
83												
84												
85												
86												
87												
88												

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SWITCH REFERENCE CONTINUED

ID	Name	Node	Node Ext	Conn.	Input Pin	Input Wire	GND Pin	Ground Wire	Location	Type	Address	Part Number
89												
90	Action Button	1	-	CN7	10	TAN WHT	9	BLK WHT	Cabinet	Leaf	1-SW-2	180-5218-00
91												
92												
93	Start Button	1	-	CN6	11	GRY	12	BLK WHT	Cabinet	Micro	1-SW-11	500-1060-44-LED
94	Tournament Start Button	1	-	CN6	9	GRY WHT	5	BLK WHT	Cabinet	Micro	1-SW-12	500-6587-06-TL
95												
96	Left Coin	1	-	CN5	9	PNK BRN	3	BLK	Coin Door	Micro	1-SW-16	
97	Right Coin	1	-	CN5	7	PNK ORG	3	BLK	Coin Door	Micro	1-SW-18	
98	Center Coin	1	-	CN5	8	PNK RED	3	BLK	Coin Door	Micro	1-SW-17	
99	Fourth Coin	1	-	CN5	6		-		Coin Door	-	1-SW-19	
100	Fifth Coin	1	-	CN5	5		-		Coin Door	-	1-SW-20	
101	Tilt Pendulum	1	-	CN6	7	WHT	5	BLK WHT	Cabinet	Plumb Bob	1-SW-14	516-0007-00
102	Sixth Coin	1	-	CN9	5		-		Coin Door	-	1-SW-21	
103	Ticket Notch	1	-	CN11	5		-		Cabinet	-	1-SW-8	
104	Slam Tilt	1	-	CN5	4	LGN RED	3	BLK	Cabinet	-	1-SW-22	
105												
106												
107												
108												
109												
110												
C9	Service Select	0	-	CN25	4	LGN GRY	6	BLK	Coin Door		0-SW-8	515-1963-00
C10	Service Plus	0	-	CN25	3	LGN VIO	6	BLK	Coin Door		0-SW-9	515-1963-00
C11	Service Minus	0	-	CN25	2	LGN BLU	6	BLK	Coin Door		0-SW-10	515-1963-00
C12	Service Back	0	-	CN25	1	LGN BLK	6	BLK	Coin Door		0-SW-11	515-1963-00
C17	Headphone Detect	0	-	-	-	-	-	-	Coin Door		0-SW-16	-
C18	Headphone Kit Cable Detect	0	-	CN3	5	BLK	4	BLK	CPU Node		0-SW-17	-
C19	Volume Encoder 1	0	-	CN3	6	WHT	1	DRAIN	CPU Node		0-SW-18	-
C20	Volume Encoder 2	0	-	CN3	7	GRN	1	DRAIN	CPU Node		0-SW-19	-
C24	Coin Door Power Interlock	0	-	CN4	1	GRY	4	GRY RED	Cabinet		0-SW-23	-

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SWITCH REFERENCE CONTINUED

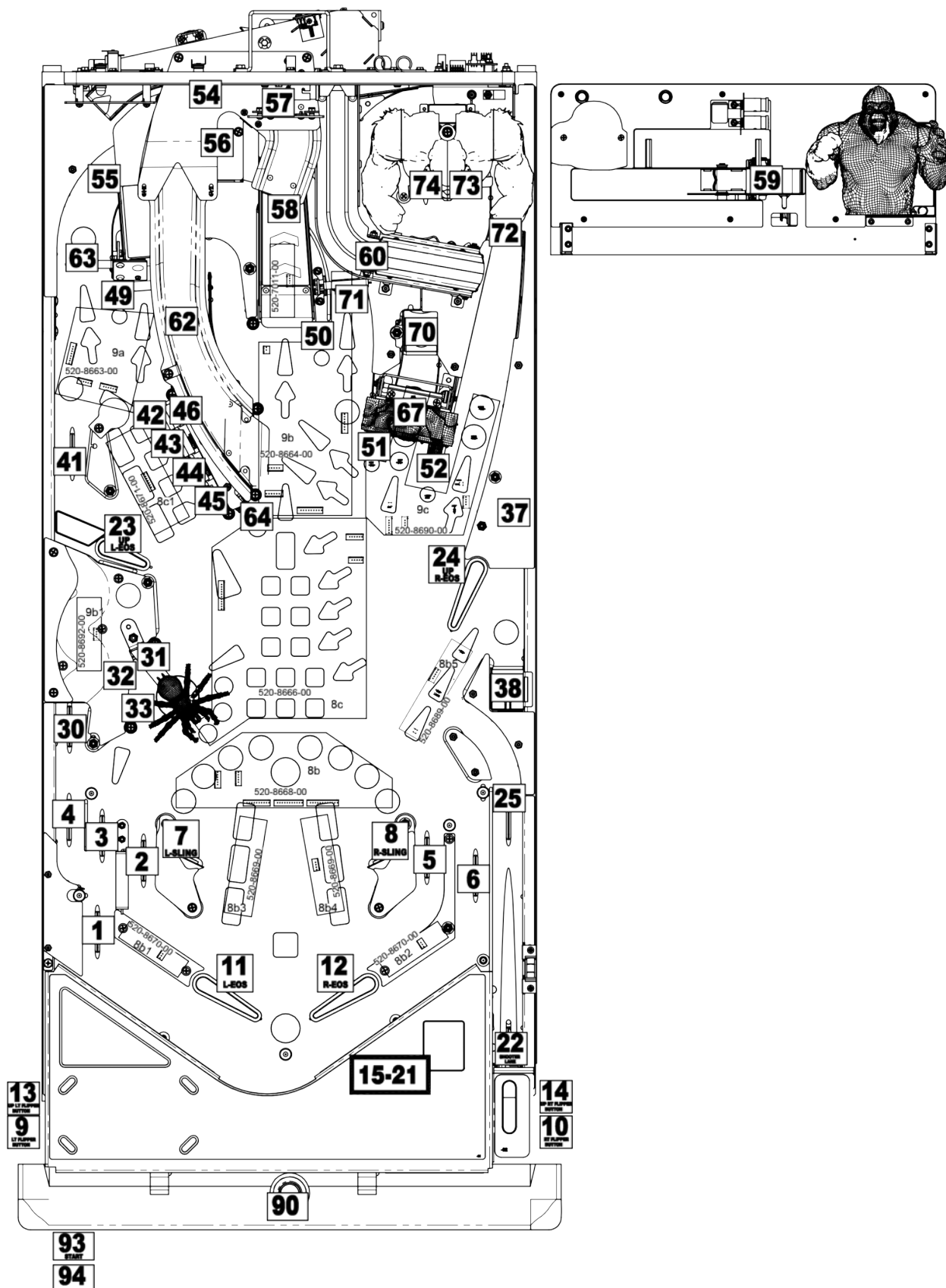


Figure 3.3.1. Playfield switch locations (top view).

3.4 LIGHT REFERENCE

ID	Name	Node	Node Ext.	Conn.	Ret. Pin	Ret. Wire	Src. Pin	Src. Wire	Location	Type	Light Color	Address	Part Number
1	Coin Enable	1	-	CN8	6	BLK GRY	2	GRY RED	Coin Door	Digital Out		1-LP-0	
2	Start Button	1	-	CN6	3	YEL BRN	1	RED	Cabinet	Feature	White	1-LP-2	113-5071-00
3	Tournament Start	1	-	CN6	2	YEL RED	1	RED	Cabinet	Feature	White	1-LP-3	112-5031-01
4	Action Button-R	1	-	CN7	2	RED WHT	1	RED	Cabinet	Feature	RGB	1-LP-5	520-5333-00
5	Action Button-G	1	-	CN7	3	GRN WHT	1	RED	Cabinet	Feature	RGB	1-LP-4	520-5333-00
6	Action Button-B	1	-	CN7	4	BLU WHT	1	RED	Cabinet	Feature	RGB	1-LP-7	520-5333-00
7													
8													
9													
10													
11	Cliffhanger	8	b	CN4	6	BRN VIO	1/2/3/4/5	RED	Playfield	Feature	White	8-LP-24	520-5307-00
12	Left Return 2	8	b	CN2	4	YEL BRN	1/2/3	RED	Playfield	Feature	White	8-LP-8	520-8670-00
13	Left Return 2X	8	b	CN2	5	YEL RED	1/2/3	RED	Playfield	Feature	White	8-LP-9	520-8670-00
14	Left Return 1	8	b	CN2	6	YEL ORG	1/2/3	RED	Playfield	Feature	White	8-LP-10	520-8670-00
15	Right Return 1	8	b	CN2	7	YEL GRN	1/2/3	RED	Playfield	Feature	White	8-LP-11	520-8670-00
16	Right Return 2X	8	b	CN2	8	YEL BLU	1/2/3	RED	Playfield	Feature	White	8-LP-12	520-8670-00
17	Right Return 2	8	b	CN2	9	YEL VIO	1/2/3	RED	Playfield	Feature	White	8-LP-13	520-8670-00
18	Shoot Again	8	b	CN2	11	YEL WHT	1/2/3	RED	Playfield	Feature	White	8-LP-15	520-5307-00
19	Eighth Wonder	8	b	CN2	10	YEL GRY	1/2/3	RED	Playfield	Feature	White	8-LP-14	520-5307-00
20													
21													
22	Kong Multiball	8	b	CN3	5	BLU RED	1/2/3/4	RED	Playfield	Feature	White	8-LP-16	520-8669-00
23	TREX Defeated	8	b	CN3	6	BLU ORG	1/2/3/4	RED	Playfield	Feature	White	8-LP-17	520-8669-00
24	Biplanes Destroyed	8	b	CN3	7	BLU YEL	1/2/3/4	RED	Playfield	Feature	White	8-LP-18	520-8669-00
25	Climb Complete	8	b	CN3	8	BLU GRN	1/2/3/4	RED	Playfield	Feature	White	8-LP-19	520-8669-00
26	Island Scenes	8	b	CN3	9	BLU VIO	1/2/3/4	RED	Playfield	Feature	White	8-LP-20	520-8669-00
27	Spider Pit Cleared	8	b	CN3	10	BLU WHT	1/2/3/4	RED	Playfield	Feature	White	8-LP-21	520-8669-00
28													
29													
30	(K)ING KONG	8	b	LED32	-	-	-	-	Playfield	Feature	White	8-LP-39	520-8668-00
31	K(I)NG KONG	8	b	LED31	-	-	-	-	Playfield	Feature	White	8-LP-38	520-8668-00
32	KI(N)G KONG	8	b	LED30	-	-	-	-	Playfield	Feature	White	8-LP-37	520-8668-00
33	KIN(G) KONG	8	b	LED29	-	-	-	-	Playfield	Feature	White	8-LP-36	520-8668-00
34	KING (K)ONG	8	b	LED27	-	-	-	-	Playfield	Feature	White	8-LP-34	520-8668-00
35	KING K(O)NG	8	b	LED26	-	-	-	-	Playfield	Feature	White	8-LP-33	520-8668-00
36	KING KO(N)G	8	b	LED25	-	-	-	-	Playfield	Feature	White	8-LP-32	520-8668-00
37	KING KON(G)	8	b	LED24	-	-	-	-	Playfield	Feature	White	8-LP-31	520-8668-00
38	Bash Gong W/Lit	8	b	LED28	-	-	-	-	Playfield	Feature	White	8-LP-35	520-8668-00
39													
40	Giant Spider	8	c	LED32	-	-	-	-	Playfield	Feature	White	8-LP-71	520-8666-00
41	Octopus Insect	8	c	LED31	-	-	-	-	Playfield	Feature	White	8-LP-70	520-8666-00
42	2 Legged Lizard	8	c	LED27	-	-	-	-	Playfield	Feature	White	8-LP-66	520-8666-00
43	The Pit!	8	c	LED22	-	-	-	-	Playfield	Feature	White	8-LP-61	520-8666-00
44													
45	Kong Cave- R	8	b	CN4	7	RED BRN	1/2/3/4/5	RED	Playfield	Feature	RGB	8-LP-25	520-8689-00
46	Kong Cave- G	8	b	CN4	8	GRN BRN	1/2/3/4/5	RED	Playfield	Feature	RGB	8-LP-26	520-8689-00
47	Kong Cave- B	8	b	CN4	9	BLU BRN	1/2/3/4/5	RED	Playfield	Feature	RGB	8-LP-27	520-8689-00
48	Kong Cave Mystery	8	b	CN4	10	BRN RED	1/2/3/4/5	RED	Playfield	Feature	White	8-LP-28	520-8689-00
49	Extra Ball	8	b	CN4	12	BRN YEL	1/2/3/4/5	RED	Playfield	Feature	White	8-LP-30	520-8689-00
50													
51													

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LIGHT REFERENCE CONTINUED

ID	Name	Node	Node Ext.	Conn.	Ret. Pin	Ret. Wire	Src. Pin	Src. Wire	Location	Type	Light Color	Address	Part Number
52													
53	100Ft	8	c	LED30	-	-	-	-	Playfield	Feature	White	8-LP-69	520-8666-00
54	200Ft	8	c	LED29	-	-	-	-	Playfield	Feature	White	8-LP-68	520-8666-00
55	300Ft	8	c	LED28	-	-	-	-	Playfield	Feature	White	8-LP-67	520-8666-00
56	400Ft	8	c	LED26	-	-	-	-	Playfield	Feature	White	8-LP-65	520-8666-00
57	500Ft	8	c	LED25	-	-	-	-	Playfield	Feature	White	8-LP-64	520-8666-00
58	600Ft	8	c	LED24	-	-	-	-	Playfield	Feature	White	8-LP-63	520-8666-00
59	700Ft	8	c	LED21	-	-	-	-	Playfield	Feature	White	8-LP-60	520-8666-00
60	800Ft	8	c	LED20	-	-	-	-	Playfield	Feature	White	8-LP-59	520-8666-00
61	900Ft	8	c	LED18	-	-	-	-	Playfield	Feature	White	8-LP-57	520-8666-00
62	1000Ft	8	c	LED17	-	-	-	-	Playfield	Feature	White	8-LP-56	520-8666-00
63	1100Ft	8	c	LED7	-	-	-	-	Playfield	Feature	White	8-LP-46	520-8666-00
64	1200Ft	8	c	LED6	-	-	-	-	Playfield	Feature	White	8-LP-45	520-8666-00
65	Building Roof	8	c	LED3	-	-	-	-	Playfield	Feature	White	8-LP-42	520-8666-00
66	1250Ft	9	b	LED1	-	-	-	-	Playfield	Feature	White	9-LP-24	520-8664-00
67	Biplane 1	8	c	LED23	-	-	-	-	Playfield	Feature	White	8-LP-62	520-8666-00
68	Biplane 2	8	c	LED19	-	-	-	-	Playfield	Feature	White	8-LP-58	520-8666-00
69	Biplane 3	8	c	LED16	-	-	-	-	Playfield	Feature	White	8-LP-55	520-8666-00
70	Biplane 4	8	c	LED5	-	-	-	-	Playfield	Feature	White	8-LP-44	520-8666-00
71	Attack	8	c	LED2	-	-	-	-	Playfield	Feature	White	8-LP-41	520-8666-00
72													
73	Sweep Bonus	8	c	LED4	-	-	-	-	Playfield	Feature	White	8-LP-43	520-8666-00
74	Powerup	8	c	LED1	-	-	-	-	Playfield	Feature	White	8-LP-40	520-8666-00
75													
76	Light Lock	8	c	CN2	4	GRN BRN	1/2/3	RED	Playfield	Feature	White	8-LP-47	520-8671-00
77	Light Combos	8	c	CN2	5	GRN RED	1/2/3	RED	Playfield	Feature	White	8-LP-48	520-8671-00
78	Light Jackpot	8	c	CN2	6	GRN ORG	1/2/3	RED	Playfield	Feature	White	8-LP-49	520-8671-00
79	4 Bank Drop 1- Top	8	c	CN2	10	GRN GRY	1/2/3	RED	Playfield	Feature	White	8-LP-53	520-8671-00
80	4 Bank Drop 2	8	c	CN2	9	GRN VIO	1/2/3	RED	Playfield	Feature	White	8-LP-52	520-8671-00
81	4 Bank Drop 3	8	c	CN2	8	GRN BLU	1/2/3	RED	Playfield	Feature	White	8-LP-51	520-8671-00
82	4 Bank Drop 4- Bot	8	c	CN2	7	GRN YEL	1/2/3	RED	Playfield	Feature	White	8-LP-50	520-8671-00
83													
84	Log Bridge	9	a	LED3	-	-	-	-	Playfield	Feature	White	9-LP-12	520-8663-00
85	Island Treasure	9	a	LED4	-	-	-	-	Playfield	Feature	White	9-LP-13	520-8663-00
86													
87													
88	Left Orbit-R	9	a	LED1	-	-	-	-	Playfield	Feature	RGB	9-LP-8	520-8663-00
89	Left Orbit-G	9	a	LED1	-	-	-	-	Playfield	Feature	RGB	9-LP-9	520-8663-00
90	Left Orbit-B	9	a	LED1	-	-	-	-	Playfield	Feature	RGB	9-LP-10	520-8663-00
91	Left Orbit Climb	9	a	LED2	-	-	-	-	Playfield	Feature	White	9-LP-11	520-8663-00
92	X1	9	a	LED7	-	-	-	-	Playfield	Feature	White	9-LP-18	520-8663-00
93	Left Ramp-R	9	a	LED6	-	-	-	-	Playfield	Feature	RGB	9-LP-15	520-8663-00
94	Left Ramp-G	9	a	LED6	-	-	-	-	Playfield	Feature	RGB	9-LP-16	520-8663-00
95	Left Ramp-B	9	a	LED6	-	-	-	-	Playfield	Feature	RGB	9-LP-17	520-8663-00
96	Left Ramp Climb	9	a	LED5	-	-	-	-	Playfield	Feature	White	9-LP-14	520-8663-00
97													
98	2.42 Million Bananas	9	b	CN3	7	ORG RED	1/2/3	RED	Playfield	Feature	White	9-LP-42	112-5034-WW
99	Biplane-R	9	b	LED9	-	-	-	-	Playfield	Feature	RGB	9-LP-32	520-8664-00
100	Biplane-G	9	b	LED9	-	-	-	-	Playfield	Feature	RGB	9-LP-33	520-8664-00
101	Biplane-B	9	b	LED9	-	-	-	-	Playfield	Feature	RGB	9-LP-34	520-8664-00
102	Biplane Climb	9	b	LED8	-	-	-	-	Playfield	Feature	White	9-LP-31	520-8664-00

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LIGHT REFERENCE CONTINUED

ID	Name	Node	Node Ext.	Conn.	Ret. Pin	Ret. Wire	Src. Pin	Src. Wire	Location	Type	Light Color	Address	Part Number
103	U-Turn-R	9	b	LED11	-	-	-	-	Playfield	Feature	RGB	9-LP-36	520-8664-00
104	U-Turn-G	9	b	LED11	-	-	-	-	Playfield	Feature	RGB	9-LP-37	520-8664-00
105	U-Turn-B	9	b	LED11	-	-	-	-	Playfield	Feature	RGB	9-LP-38	520-8664-00
106	U-Turn Climb	9	b	LED10	-	-	-	-	Playfield	Feature	White	9-LP-35	520-8664-00
107													
108													
109	Center Ramp-R	9	b	LED23	-	-	-	-	Playfield	Feature	RGB	9-LP-52	520-8664-00
110	Center Ramp-G	9	b	LED23	-	-	-	-	Playfield	Feature	RGB	9-LP-53	520-8664-00
111	Center Ramp-B	9	b	LED23	-	-	-	-	Playfield	Feature	RGB	9-LP-54	520-8664-00
112	Center Ramp Climb	9	b	LED24	-	-	-	-	Playfield	Feature	White	9-LP-55	520-8664-00
113													
114	X2	9	b	LED21	-	-	-	-	Playfield	Feature	White	9-LP-50	520-8664-00
115	Center Lane-R	9	b	LED19	-	-	-	-	Playfield	Feature	RGB	9-LP-46	520-8664-00
116	Center Lane-G	9	b	LED19	-	-	-	-	Playfield	Feature	RGB	9-LP-47	520-8664-00
117	Center Lane-B	9	b	LED19	-	-	-	-	Playfield	Feature	RGB	9-LP-48	520-8664-00
118	Center Lane Climb	9	b	LED18	-	-	-	-	Playfield	Feature	White	9-LP-45	520-8664-00
119	Lost Temple	9	b	LED17	-	-	-	-	Playfield	Feature	White	9-LP-44	520-8664-00
120													
121	X3	9	c	LED4	-	-	-	-	Playfield	Feature	White	9-LP-59	520-8690-00
122	Island Scene	9	c	LED2	-	-	-	-	Playfield	Feature	White	9-LP-57	520-8690-00
123	Bang A Gong	9	c	LED3	-	-	-	-	Playfield	Feature	White	9-LP-58	520-8690-00
124	Kong Gong-R	9	c	LED5	-	-	-	-	Playfield	Feature	RGB	9-LP-60	520-8690-00
125	Kong Gong-G	9	c	LED5	-	-	-	-	Playfield	Feature	RGB	9-LP-61	520-8690-00
126	Kong Gong-B	9	c	LED5	-	-	-	-	Playfield	Feature	RGB	9-LP-62	520-8690-00
127	X4	9	c	LED6	-	-	-	-	Playfield	Feature	White	9-LP-63	520-8690-00
128													
129	NYC Event	9	c	LED12	-	-	-	-	Playfield	Feature	White	9-LP-71	520-8690-00
130	Island Lock	9	c	LED11	-	-	-	-	Playfield	Feature	White	9-LP-70	520-8690-00
131	Right Orbit-R	9	c	LED10	-	-	-	-	Playfield	Feature	RGB	9-LP-67	520-8690-00
132	Right Orbit-G	9	c	LED10	-	-	-	-	Playfield	Feature	RGB	9-LP-68	520-8690-00
133	Right Orbit-B	9	c	LED10	-	-	-	-	Playfield	Feature	RGB	9-LP-69	520-8690-00
134	Right Orbit Climb	9	c	LED7	-	-	-	-	Playfield	Feature	White	9-LP-64	520-8690-00
135													
136	Left Ramp BB	9	a	CN3	6	BRN GRY	1/2/3	RED	Playfield	Feature	White	9-LP-21	520-5307-00
137													
138	Biplane BB Super Jackpot	9	a	CN3	5	BRN BLU	1/2/3	RED	Playfield	Feature	White	9-LP-20	520-5307-00
139	Biplane BB Advance Biplane	9	a	CN3	4	BRN GRN	1/2/3	RED	Playfield	Feature	White	9-LP-19	520-5307-00
140													
141	Train Lock 3	9	b	CN2	4	BRN RED	1/2/3	RED	Playfield	Feature	White	9-LP-25	520-7011-00
142	Train Lock 2	9	b	CN2	5	BRN ORG	1/2/3	RED	Playfield	Feature	White	9-LP-26	520-7011-00
143	Train Lock 1	9	b	CN2	6	BRN YEL	1/2/3	RED	Playfield	Feature	White	9-LP-27	520-7011-00
144	Gong Left	9	-	CN14	6	BRN BLU	7/8	YEL	Playfield	Feature	White	9-LP-3	520-8686-00
145	Gong Right	9	-	CN14	5	BRN GRN	7/8	YEL	Playfield	Feature	White	9-LP-4	520-8686-00
146													
147													
148													
149													
150	Coin Door GI	1	-	CN5	2	YEL	1	YEL-WHT	Coin Door	G.I.	White	1-LP-1	112-5033-08
151	Bottom GI-WHT (x7)	8	-	CN15	5	WHT BLK	1	YEL BLK	Playfield	G.I.	White	8-LP-0	112-5034-WW
152	Arch GI-WHT (x3)	8	-	CN15	6	RED BLK	2	YEL RED	Playfield	G.I.	White	8-LP-1	520-7000-00 520-5307-00

Continued on next page...

LIGHT REFERENCE CONTINUED

ID	Name	Node	Node Ext.	Conn.	Ret. Pin	Ret. Wire	Src. Pin	Src. Wire	Location	Type	Light Color	Address	Part Number
153													
154													
155	Top GI-WHT (x12)	9	-	CN15	5	WHT BLK	1	YEL BLK	Playfield	G.I.	White	9-LP-0	112-5034-WW
156	Backpanel GI-WHT (x2)	9	-	CN15	6	RED BLK	2	YEL RED	Playfield	G.I.	White	9-LP-1	112-5034-WW
157													
158													
159													
160													
161													
162													
163													
164	Lower Left Spot	8	b	CN3	11	ORG BRN	1/2/3/4	RED	Playfield	Flash	White	8-LP-22	113-5032-08
165	Lower Right Spot	8	b	CN3	12	ORG RED	1/2/3/4	RED	Playfield	Flash	White	8-LP-23	113-5032-08
166	Temple Flash	9	b	CN3	5	ORG GRY	1/2/3	RED	Playfield	Flash	White	9-LP-40	520-7000-00
167	Pit Flash	9	b	CN3	6	ORG WHT	1/2/3	RED	Playfield	Flash	White	9-LP-41	520-7000-00
168													
169	Left Spinner Flash	9	a	CN3	7	ORG RED	1/2/3	RED	Playfield	Flash	White	9-LP-22	520-7000-00
170	Right Spinner Flash	9	b	LED20	-	-	-	-	Playfield	Flash	White	9-LP-49	520-8664-00
171	Gong Flash	9	c	LED1	-	-	-	-	Playfield	Flash	White	9-LP-56	520-8690-00
172	Kong Cave Flasher	9	b	CN3	4	ORG VIO	1/2/3	RED	Playfield	Flash	White	9-LP-39	520-7000-00
173													
174	Kong Accent Spot-Top	9	b	CN2	8	ORG GRN	1/2/3	RED	Backpanel	Flash	Purple	9-LP-29	113-5045-09
175	Kong Accent Spot-Bot	9	b	CN2	9	ORG BLU	1/2/3	RED	Backpanel	Flash	Orange	9-LP-30	113-5045-07
176	Train Flash	9	c	CN2	3	ORG BRN	1/2	RED	Playfield	Flash	White	9-LP-65	520-7000-00
177	Waterfall Flash	9	c	CN2	4	ORG RED	1/2	RED	Backpanel	Flash	White	9-LP-66	113-5045-08
178	River Flash Top	9	-	CN14	4	BRN YEL	7/8	YEL	Playfield	Flash	White	9-LP-5	520-8692-00
179	River Flash Mid	9	-	CN14	3	BRN ORG	7/8	YEL	Playfield	Flash	White	9-LP-6	520-8692-00

Continued on next page...



LIGHT REFERENCE CONTINUED

ID	Name	Node	Node Ext.	Conn.	Ret. Pin	Ret. Wire	Src. Pin	Src. Wire	Location	Type	Light Color	Address	Part Number
220	Speaker 1-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-1	511-1135-00
221	Speaker 1-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-0	511-1135-00
222	Speaker 1-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-2	511-1135-00
223	Speaker 2-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-4	511-1135-00
224	Speaker 2-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-3	511-1135-00
225	Speaker 2-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-5	511-1135-00
226	Speaker 3-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-7	511-1135-00
227	Speaker 3-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-6	511-1135-00
228	Speaker 3-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-8	511-1135-00
229	Speaker 4-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-10	511-1135-00
230	Speaker 4-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-9	511-1135-00
231	Speaker 4-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-11	511-1135-00
232	Speaker 5-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-13	511-1135-00
233	Speaker 5-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-12	511-1135-00
234	Speaker 5-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-14	511-1135-00
235	Speaker 6-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-16	511-1135-00
236	Speaker 6-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-15	511-1135-00
237	Speaker 6-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-17	511-1135-00
238	Speaker 7-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-19	511-1135-00
239	Speaker 7-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-18	511-1135-00
240	Speaker 7-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-20	511-1135-00
241	Speaker 8-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-22	511-1135-00
242	Speaker 8-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-21	511-1135-00
243	Speaker 8-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-23	511-1135-00
244	Speaker 9-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-25	511-1135-00
245	Speaker 9-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-24	511-1135-00
246	Speaker 9-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-26	511-1135-00
247	Speaker 10-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-28	511-1135-00
248	Speaker 10-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-27	511-1135-00
249	Speaker 10-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-29	511-1135-00
250	Speaker 11-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-31	511-1135-00
251	Speaker 11-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-30	511-1135-00
252	Speaker 11-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-32	511-1135-00
253	Speaker 12-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-34	511-1135-00
254	Speaker 12-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-33	511-1135-00
255	Speaker 12-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-35	511-1135-00
256	Speaker 13-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-37	511-1135-00
257	Speaker 13-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-36	511-1135-00
258	Speaker 13-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-38	511-1135-00
259	Speaker 14-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-40	511-1135-00
260	Speaker 14-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-39	511-1135-00
261	Speaker 14-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-41	511-1135-00
262	Speaker 15-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-43	511-1135-00
263	Speaker 15-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-42	511-1135-00
264	Speaker 15-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-44	511-1135-00
265	Speaker 16-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-46	511-1135-00
266	Speaker 16-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-45	511-1135-00
267	Speaker 16-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-47	511-1135-00
268	Speaker 17-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-49	511-1135-00
269	Speaker 17-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-48	511-1135-00
270	Speaker 17-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-50	511-1135-00
271	Speaker 18-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-52	511-1135-00
272	Speaker 18-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-51	511-1135-00

Continued on next page...

LIGHT REFERENCE CONTINUED

ID	Name	Node	Node Ext.	Conn.	Ret. Pin	Ret. Wire	Src. Pin	Src. Wire	Location	Type	Light Color	2p11.2	Part Number
273	Speaker 18-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-53	511-1135-00
274	Speaker 19-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-55	511-1135-00
275	Speaker 19-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-54	511-1135-00
276	Speaker 19-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-56	511-1135-00
277	Speaker 20-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-58	511-1135-00
278	Speaker 20-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-57	511-1135-00
279	Speaker 20-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-59	511-1135-00
280	Speaker 21-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-61	511-1135-00
281	Speaker 21-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-60	511-1135-00
282	Speaker 21-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-62	511-1135-00
283	Speaker 22-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-64	511-1135-00
284	Speaker 22-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-63	511-1135-00
285	Speaker 22-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-65	511-1135-00
286	Speaker 23-R	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-67	511-1135-00
287	Speaker 23-G	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-66	511-1135-00
288	Speaker 23-B	7	-	CN1	-	-	-	-	Cabinet	Feature	iRGB	7-LP-68	511-1135-00

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3.5 DIAGNOSTICS MENU REFERENCE

Single Coil Test

#1: Trough A

Node: 8 - Lower Playfield

Connector: CN8

Voltage: 48V

Return pin: 7 Org-Gry

Voltage pin: 1-4 Gry-Org

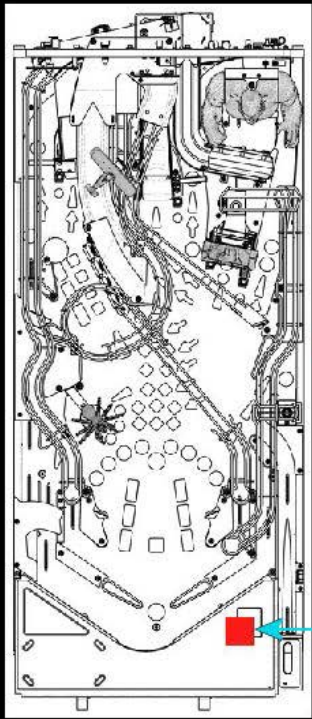
Location: Playfield

Type: Coil - 27-1500

Part Number: 090-5004-ND

Address: 8-DR-1

Kicks a ball out of the trough and into the shooter lane. C



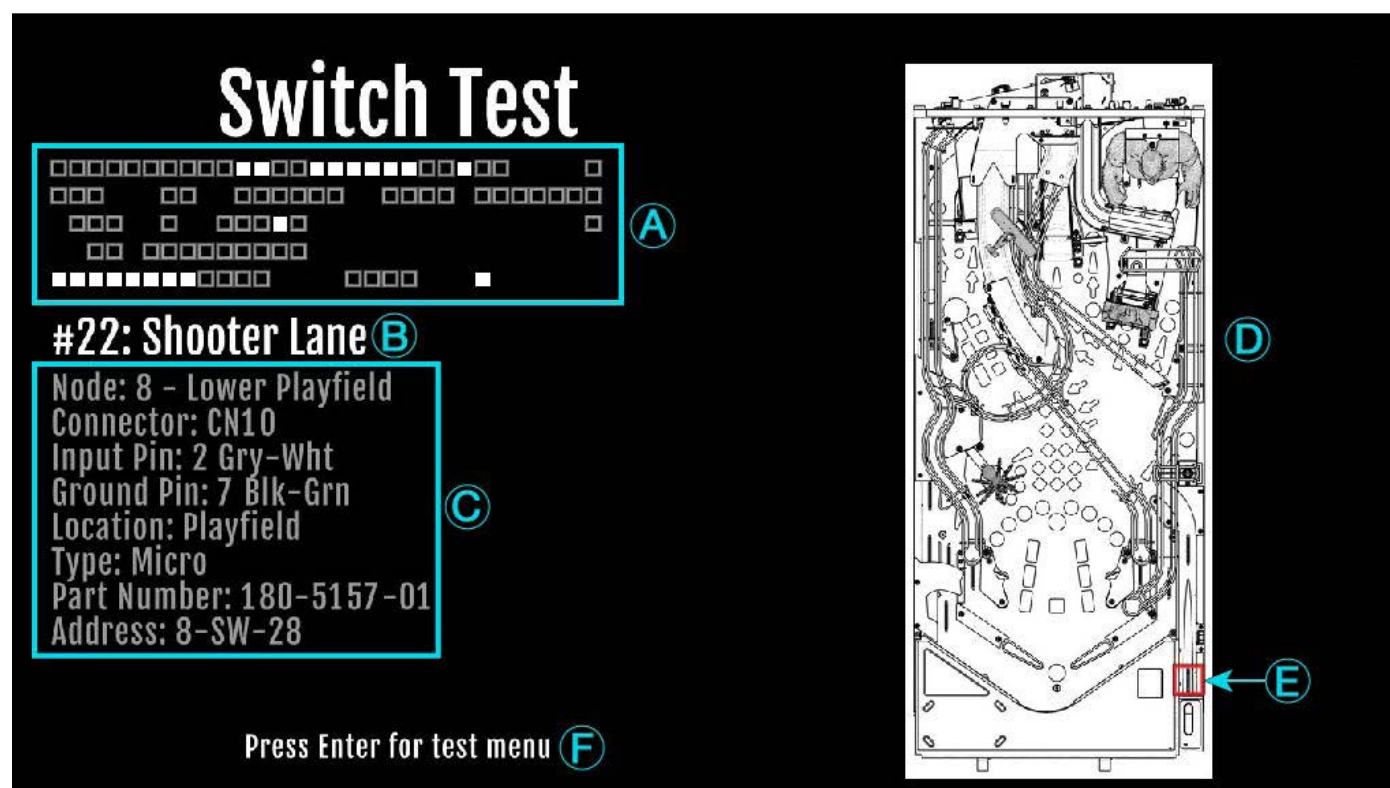
D

E

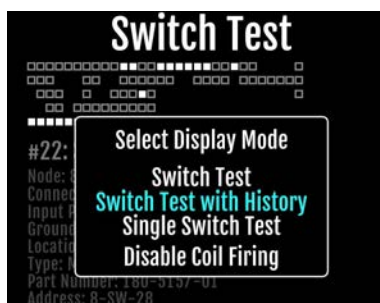
Press Enter to fire coil F

- A.** This is the currently selected Coil. Use the - / + Volume buttons to go to the previous / next coil.
- B.** This is the information for the currently selected coil.
 - Node is the board that controls it, and the Connector is the connector on that board the output is coming from.
 - Voltage is how much voltage is output to the coil. Measuring voltage from the Voltage Pin to a ground connection should measure close to the Voltage listed. Voltage pin is typically live while the controlling board is active.
 - Return and Voltage Pins show the exact pin of the connector, and the color of the wires for each pin. The return wire completes the circuit to energize / activate the coil.
 - Type and Part Number show what the wires are going to. In this case, it shows that it is a coil made up of wire that is 27 gauge thick, with 1,500 windings,. The Stern part number for the specific coil used is 090-5004-ND.
- C.** This is a brief description of what the Coil does when activated. May not be present for all Coils.
- D.** This is a map of the playfield. The image will change to help show location of currently selected Coil.
- E.** This is the relative position of the currently selected Coil.
- F.** Pressing the Select button will cause the game to briefly energize the Coil.
 - For magnets that only hold the ball when energized, this may not be long enough to hold the ball. Instead, place a ball near the magnet and see if the ball is affected by the magnet when energized.

DIAGNOSTICS MENU REFERENCE CONTINUED



- A. This top area shows all the currently active switches. The filled boxes are currently registering as active, and the empty boxes are not being registered. It updates live, so blocking an optic sensor's path or pressing a switch will cause its box to fill in.
-Some inputs are normally active, such as device position switches, and the DIP switches on the main CPU Node 0.
- B. This is the last switch input the game registered. In this sample image, we pressed down on the Shooter Lane switch to activate it.
- C. This is the switch input's information. Node is the board the switch plugs into, and Connector is where the switch plugs into that circuit board. Input and Ground Pin shows what pin and color wire goes into that connector.
-In this sample image, the text is greyed out because the input is not currently active. There is currently no ball in the Shooter Lane.
- D. This is a map of the playfield. The image will change to help show location of currently selected switch.
- E. The last active input will show up highlighted. If it is currently active, it will be a full shape. In the sample, it is a hollow box because the input is not currently being triggered.
- F. Pressing the Select button will pop up a menu for other testing options.



The starting screen is Switch Test.

Switch Test with History will show a list of the previously activated switches.

Single Switch Test allows the - / + Volume buttons to scroll through the boxes in the top area.

Disable Coil Firing will stop coils from firing when their respective switch is activated. For the sample image, that would mean the Auto-Plunger would not fire when the Shooter Lane Switch is activated.

After disabling the coils, re-entering the menu will show the bottom option as Enable Coil Firing to turn that feature back on.

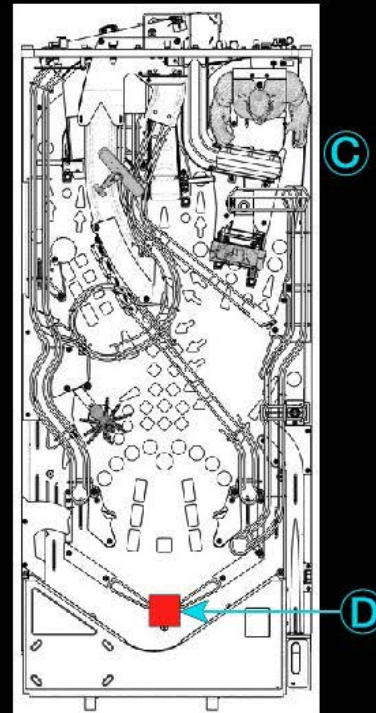
DIAGNOSTICS MENU REFERENCE CONTINUED

LED/Flasher Test

#18: Shoot Again A

Node: 8 - Lower Playfield / 8b: 9W MC LED Brd.
 Connector: CN2
 Return Pin: 11 / Yel-Wht
 Source Pin: 1/2/3 / Red
 Location: Playfield B
 Type: Feature
 Part Number: 520-5307-00
 Address ID: 8-LP-15

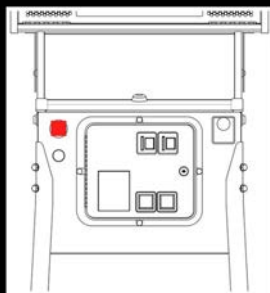
Press Enter to change LED test E



- A. This is the currently selected LED. Use the - / + Volume buttons to go to the previous / next LED.
- B. This is the information for the currently selected LED.
 - Node is the board that controls it, and the Connector is the labeled connector on that board. In this sample, LED Serial board 8b, which is connected to Node 8, is what turns this LED On / Off.
 - Return and Source Pins show the exact pin of the connector, and the color of the wires that go to the LED. The source wire is typically live, and the return wire is what completes the circuit to turn on the LED.
 - Type and Part Number show what type of light is selected, and the Stern part number for the board or light bulb.
- C. This is a map of the playfield. The image will change to help show location of currently selected LED.
- D. This is the relative position of the currently selected LED.
- E. Pressing the Select button will cause a small menu to pop up. You can change to G.I. test and ALL LEDS from the pop up menu.

LED/Flasher Test

#2: Start Button
 Node: 1 - Cabinet
 Connector: CNG
 Return Pin: 3 / Yel-Brn
 Source Pin: 1 / Red
 Location: Cabinet
 Type: Feature
 Part Number: 113-5071-00
 Address ID: 1-LP-2



The sample image here shows that the image on-screen for the Start Button shows the cabinet instead of the playfield.

#30: (K)ing Kong

Node: 8 - Lower Playfield / 8b: 9W MC LED Brd.
 Connector: LED32

Location: Playfield
 Type: Feature
 Part Number: 520-8668-00
 Address ID: 8-LP-39

The sample image here shows an LED that is a part of the LED serial board. The Connector instead shows what LED on the board is selected. There are no Return or Source Pins listed since the LED is directly on the board, and there are no wires going to the light.

4. ELECTRONIC PINOUTS AND SCHEMATICS

4.1 SPIKE-2 CPU NODE 0

509-1003-01

DIRECT SWITCH MAPPING (CN25)

The coin-door diagnostic switches are connected directly to the CPU node via the Cabinet Node. Note that both the CPU and Cabinet nodes are required for diagnostic switch operation.

ID	Name	Conn.	Input Pin	Input Wire	GND Pin	Ground Wire	Location	Type	Address	Part Number
C1	DIP 1	-	-	-	-	-	CPU Node		0-SW-0	-
C2	DIP 2	-	-	-	-	-	CPU Node		0-SW-1	-
C3	DIP 3	-	-	-	-	-	CPU Node		0-SW-2	-
C4	DIP 4	-	-	-	-	-	CPU Node		0-SW-3	-
C5	DIP 5	-	-	-	-	-	CPU Node		0-SW-4	-
C6	DIP 6	-	-	-	-	-	CPU Node		0-SW-5	-
C7	DIP 7	-	-	-	-	-	CPU Node		0-SW-6	-
C8	DIP 8	-	-	-	-	-	CPU Node		0-SW-7	-
C9	Service Select	CN25	1	LGN-GRY	11	BLK-WHT	Coin Door		0-SW-9	180-5192-04
C10	Service Plus	CN25	2	LGN-VIO	11	BLK-WHT	Coin Door		0-SW-10	180-5192-02
C11	Service Minus	CN25	3	LGN-BLU	11	BLK-WHT	Coin Door		0-SW-11	180-5192-02
C12	Service Back	CN25	4	LGN-BLK	11	BLK-WHT	Coin Door		0-SW-12	180-5192-00

CONNECTORS

ID	Connector Type	Description
CN1	5-Pin .156" Header	Backbox 2-channel amplified speaker out
CN2	3-Pin .100" Header	Console Port
CN3	7-Pin .100" Header	Headphone connector
CN4	2-Pin .156"	Cabinet 1-channel amplified speaker out
CN5	7-Pin .100" Header	Line In/Out
CN6	34 Pin 2.00mm Header	LCD display connector
CN7	5-Pin .156" Header	48V supply from main power supply
CN8	6-Pin .100" Header	SPI Serial
CN9	USB	USB connector - for software updates, audit dumps, and expansion modules
CN9	USB	USB connector - for software updates, audit dumps, and expansion modules
CN10	HDMI	HDMI Out
CN11	RJ45	SPIKE node bus - to cabinet node N1
CN12	RJ45	SPIKE node bus - To Topper accessory Kit
CN13	SD CARD	SD Card connector
CN14	5-Pin .100" Header	LCD Backlight
CN15	3-Pin .100" Header	Backbox Light
CN16	4-Pin .100" Header	3.3v / 5v / 12v
CN17	ETHERNET	ETHERNET connector
CN21	SATA Header	SATA connector
CN22	RJ45	SPIKE node bus - to playfield node
CN25	12-Pin .100" Header	Dedicated switch inputs - service, volume switches

COMPONENTS

ID	Name
S1	DIP Switches
S2	Reset Switch
SD CARD (CN13)	For system SD card. Note: only to be removed if instructed to by Stern Service.
BT1	BR1225 3V Lithium battery for game clock between power cycles

STATUS LEDS

LED ID	Name	Color	Description
48V	+48V Supply In	Red	ON: Main system power is connected. OFF: No 48V system power. Check power supply connections, cables, and fuses.
3.3V	+3.3V Logic	Red	ON: Logic power supply is good. OFF: Logic power supply bad, call tech support.
5V	+5V Logic	Red	ON: Logic power supply is good. OFF: Logic power supply bad, call tech support.
12V	+12V Backbox Illumination	Red	ON: Back box LED power good. OFF: Backbox LED power bad, call tech support.
VA	+30V Audio	Red	ON: Audio power supply is good. OFF: Audio power supply off, call tech support.
VNB	+9V Node Bus	Red	Power for the Node bus. ON: Power for node bus good. OFF: Power to node bus not detected, call tech support.
5V (CPU)	+5V Logic	Red	ON: Logic power supply is good. OFF: Logic power supply bad, call tech support.
SDIO ACT	Not Used	Red	Should remain unlit as it is not currently used.
STATUS	CPU Heartbeat, System Status	Red	Double blink ~1/2 second: Good, Processor running. OFF: Processor not running, call tech support.
μSD ACT	Activity indicator for micro SD Card	Red	Should blink rapidly when reading or writing to micro SD card.
D23	Netbridge Status	Red	Should blink once every ~1/2 second.

SPIKE-2 CPU NODE 0 CONTINUED

AUDIO PINOUTS

ID	Type	Pin	Description	Minimum Impedance	Max Power (RMS)	Wire Color
CN1	.156" 5-pin Header	1	Speaker Right Ground (-)	4 Ohms	-	BLK-WHT
		2	Speaker Right (+)	4 Ohms	20W	RED-WHT
		3	n/c	-	-	
		4	Speaker Left Ground (-)	4 Ohms	-	BLK-RED
		5	Speaker Left (+)	4 Ohms	20W	RED-BLK
CN3	.100" 7-pin Header	1	n/c	-	-	
		2	L-HP	16 Ohms	15 mW	
		3	R-HP	16 Ohms	15 mW	
		4	n/c	-	-	
		5	Headphone Detect	-	-	
		6	Headphone vol +	-	-	
		7	Headphone vol -	-	-	
CN4	.156" 2-pin Header	1	Woofer Ground (-)	8 Ohms	-	YEL-BLK
		2	Woofer Out (+)	8 Ohms	40W	YEL-WHT
CN5	.100" 7-pin Header	1	n/c	-	-	
		2	L-IN	30K Ohms	0.6VRMS	
		3	R-IN	30K Ohms	0.6VRMS	
		4	n/c	-	-	
		5	L-OUT	10K Ohms	1.5V	
		6	R-OUT	10K Ohms	1.5V	
		7	Woofer Line Out	10K Ohms	1.5V	

COUNTRY CODES (DIP S2)

Country	DIP S2							
	1	2	3	4	5	6	7	8
USA	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Austria	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Australia	ON	OFF	ON	ON	OFF	OFF	OFF	OFF
Belgium	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
Canada 1	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
Canada 2	OFF	ON	OFF	ON	ON	OFF	OFF	OFF
China	OFF	OFF	ON	ON	ON	OFF	OFF	OFF
Croatia	OFF	ON	ON	OFF	ON	OFF	OFF	OFF
Denmark	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF
Finland	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
France	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF
Germany	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
Greece	ON	ON	ON	ON	OFF	OFF	OFF	OFF
Italy	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
Japan	ON	OFF	ON	OFF	ON	OFF	OFF	OFF
Middle East	ON	ON	ON	OFF	ON	OFF	OFF	OFF
Netherlands	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
New Zealand	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
Norway	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF
Portugal	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF
Russia	ON	OFF	OFF	ON	ON	OFF	OFF	OFF
S. Africa	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
Spain	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF
Sweden	ON	ON	OFF	ON	OFF	OFF	OFF	OFF
Switzerland	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF
Taiwan	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF
United Kingdom	OFF	ON	ON	ON	OFF	OFF	OFF	OFF

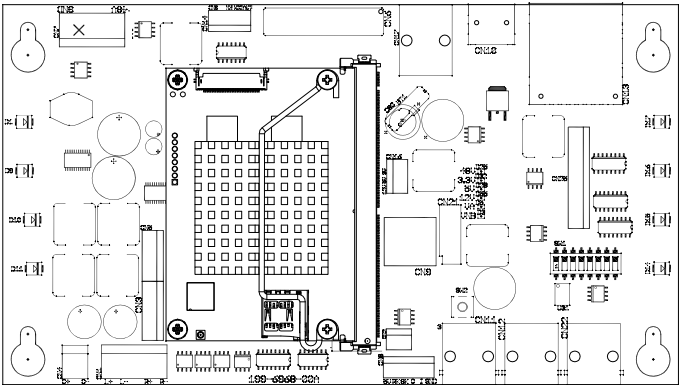


Figure 4.1.1. SPIKE 2 CPU Node connector detail.

COIN DOOR SERVICE SWITCH WIRING

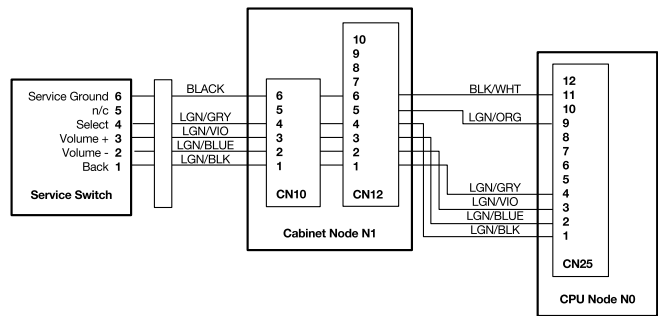
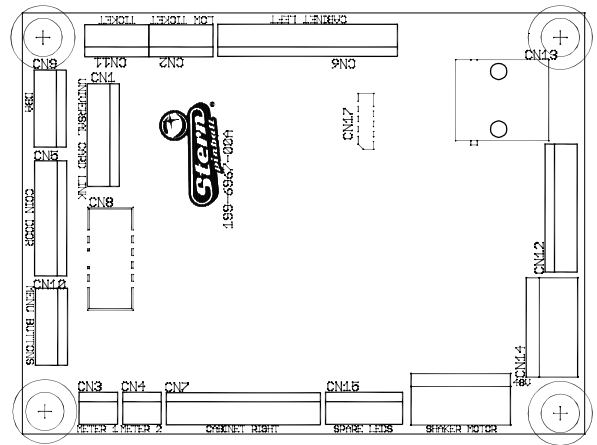


Figure 4.1.2. Service switch wiring. Note that the Cabinet Node must be present and CN10 and CN12 connected for the Coin Door Service Switches to function correctly.

4.2 CABINET NODE 1

520-6967-72

ID	Type	Pin	Description	Wire Color
CN1	.100" 8-Pin Header Universal Card Link	1	12V	-
		2	Coin 1	-
		3	Meter 1	-
		4	N/C	-
		5	Notch	-
		6	Coin Enable	-
		7	Ticket Enable	-
		8	Ground	-
CN2	.100" 5-Pin Header Low Ticket	1	Ground	-
		2	Ticket Low sw.	-
		3	Key	-
		4	Ticket Low	-
		5	5V Out	-
CN3	.100" 3-Pin Header Meter 1	1	Meter 12V (+)	RED
		2	Meter (-)	BLK
		3	N/C	-
CN4	.100" 3-Pin Header Meter 2	1	Meter 12V (+)	RED
		2	Meter (-)	BLK
CN5	.100" 9-Pin Header	3	N/C	-
		1	5V Out	YEL/WHT
		2	Coin LED Out	YEL
		3	Ground	BLK
		4	Slam Tilt In	LGN/RED
		5	Coin 5	PNK/GRN*
		6	Coin 4	PNK/YEL*
		7	Coin 3	PNK/ORN*
		8	Coin 2	PNK/RED*
		9	Coin 1	PNK/BRN*
CN6	.100" 14-Pin Header Cabinet Left	1	5V LED Power	RED
		2	Start 2 LED	YEL-RED
		3	Start 1 LED	YEL-BRN
		4	Spare LED	-
		5	Ground	BLK-WHT
		6	Spare Left	-
		7	Tilt Input	WHT
		8	Door Open	-
		9	Start 2 Switch	GRY-WHT
		10	Start 1 Switch	GRY
		11	N/C	-
		12	N/C	-
		13	N/C	-
		14	N/C	-
CN7	.100" 12-Pin Header Cabinet Right	1	5V LED Power	RED
		2	Plunge 2 LED	RED-WHT
		3	Plunge 1 LED	GRN-WHT
		4	Spare LED 2	BLU-WHT
		5	Ground	BLK-WHT
		6	Spare Right In	-
		7	Plunge 2 Switch	-
		8	Plunge 1 Switch	-
		9	N/C	-
		10	N/C	-
		11	N/C	-
		12	N/C	-
CN8	.100" 10-Pin Header Dual Row Electronic Coin Mech	1	Ground	-
		2	12V	-
		3	Coin 5	-
		4	Coin 6	-
		5	N/C	-
		6	Coin Enable/Inhibit (+)	-
		7	Coin 1	-
		8	Coin 2	-
		9	Coin 3	-
		10	Coin 4	-



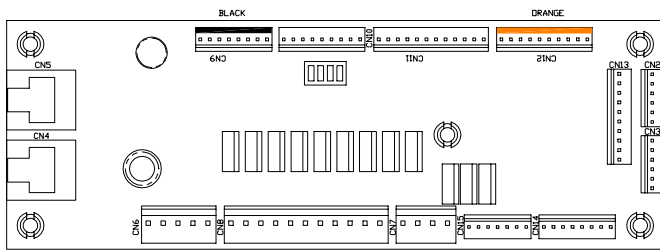
CN9	.100" 6-Pin Header Dollar Bill Acceptor	1	Coin Enable/DBA Inhibit (-)	BLK
		2	Coin Enable/DBA Inhibit (+)	-
		3	Key	Key
		4	DBA 12V	ORG
		5	Coin 6 / DBA Credit	-
		6	Ground	BLK-ORG
CN10	.100" 6-Pin Header Service Switch In	1	Service Back (To Coindoor)	LGN-BLK
		2	Service Down (To Coindoor)	LGN-BLU
		3	Service Up (To Coindoor)	LGN-VIO
		4	Service Select (To Coindoor)	LGN-GRY
		5	Key	Key
		6	Service Ground (To Coindoor)	BLK
CN11	.100" 5-Pin Header Ticket Dispenser	1	12V	RED
		2	N/C	-
		3	Ticket Dispenser Enable	WHT
		4	Ground	BLK
		5	Ticket Dispenser Notch	BLU
CN12	.100" 10-Pin Header CPU Direct Switches	1	Service Back (To CPU)	LGN-BLK
		2	Service Down (To CPU)	LGN-BLU
		3	Service Up (To CPU)	LGN-VIO
		4	Service Select (To CPU)	LGN-GRY
		5	Power Present	LGN-ORG
		6	Service Ground (To CPU)	BLK-WHT
		7	N/C	-
		8	N/C	-
		9	N/C	-
		10	N/C	-
CN14	.156" 5-Pin Header Power Input	1	Ground	BLK
		2	Key	Key
		3	N/C	-
		4	N/C	-
		5	48VDC In	GRY-YEL
CN15	.100" 6-Pin Header Spare LED's	1	5V LED Power	-
		2	Key	Key
		3	Spare LED 3	-
		4	Spare LED 4	-
		5	Spare LED 5	-
		6	Spare LED 6	-
CN16	.156" 5-Pin Header Shaker Motor	1	Shaker Motor (-)	BLU
		2	Shaker Motor (-)	-
		3	Shaker Motor (+)	-
		4	Key	Key
		5	Shaker Motor (+)	RED
			*Varies by country model	



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4.3 LOWER PLAYFIELD 48V DRIVER PINOUT NODE 8

520-1070 / 520-1057-00

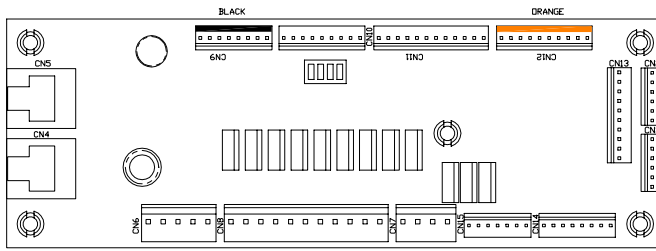


ID	Type	Pin	Description	Wire Color
SW1	Address DIP	-	Node 8 - OFF-OFF-OFF-OFF	-
CN4	RJ45	-	SPIKE Node Bus	Multi
CN5	RJ45	-	SPIKE Node Bus	Multi
CN6	.156" 5-Pin Header Node Power	1	Ground	BLK
		2	Key	Key
		3	N/C	-
		4	N/C	-
		5	48VDC In	GRY
CN7	.156" 4-Pin Header (White)	1	48V Driver Power	GRY ORG
		2	8-DR-8 Driver Return	YEL RED
		3	8-DR-6 Driver Return	YEL BLK
		4	8-DR-7 Driver Return	YEL BRN
CN8	.156 11-Pin Header (White)	1	48V Driver Power	GRY ORG
		2	48V Driver Power	GRY ORG
		3	48V Driver Power	GRY ORG
		4	48V Driver Power	GRY ORG
		5	8-DR-0 Driver Return	ORG GRN
		6	8-DR-5 Driver Return	ORG YEL
		7	8-DR-1 Driver Return	ORG GRY
		8	8-DR-8 Driver Return	-
		9	8-DR-4 Driver Return	ORG WHT
		10	8-DR-2 Driver Return	ORG VIO
		11	8-DR-3 Driver Return	ORG BLU
CN9	.100" 8-Pin Header (Black)	1	V+	-
		2	V+	-
		3	8-SW-24 Switch	GRY RED
		4	8-SW-25 Switch	GRY BRN
		5	8-SW-26 Switch	VIO WHT
		6	8-SW-27 Switch	VIO
		7	Ground	BLK GRN
		8	Ground	BLK VIO
CN10	.100" 9-Pin Header	1	V+	-
		2	8-SW-28 Switch	GRY WHT
		3	8-SW-29 Switch	GRY VIO
		4	8-SW-30 Switch	GRY BLU
		5	8-SW-31 Switch	GRY GRN
		6	8-SW-16 Switch	GRY YEL
		7	Ground	BLK GRN
		8	Ground	BLK GRN
		9	Ground	BLK GRN

ID	Type	Pin	Description	Wire Color
CN11	.100" 12-Pin Header	1	V+	-
		2	8-SW-26 Switch	-
		3	8-SW-27 Switch	-
		4	8-SW-17 Switch	LGN RED
		5	8-SW-18 Switch	LGN ORG
		6	8-SW-19 Switch	LGN YEL
		7	8-SW-20 Switch	LGN BLU
		8	8-SW-21 Switch	LGN VIO
		9	8-SW-22 Switch	LGN GRY
		10	8-SW-23 Switch	LGN WHT
		11	Ground	BLK ORG
		12	Ground	BLK ORG
CN12	.100" 10-Pin Header (Orange)	1	V+	-
		2	8-SW-8 Switch	WHT BRN
		3	8-SW-9 Switch	WHT RED
		4	8-SW-10 Switch	WHT ORG
		5	8-SW-11 Switch	WHT YEL
		6	8-SW-12 Switch	WHT GRN
		7	8-SW-13 Switch	WHT BLU
		8	8-SW-14 Switch	PNK BLK
		9	8-SW-15 Switch	PNK BRN
		10	Ground	BLK RED
CN13	.100" 10-Pin Header	1	V+	-
		2	8-SW-0 Switch	-
		3	8-SW-1 Switch	-
		4	8-SW-2 Switch	-
		5	8-SW-3 Switch	-
		6	8-SW-4 Switch	-
		7	8-SW-5 Switch	-
		8	8-SW-6 Switch	-
		9	8-SW-7 Switch	-
		10	Ground	-
CN14	.100" 8-Pin Header	1	Ground	-
		2	8-LP-7 Driver Return	-
		3	8-LP-6 Driver Return	-
		4	8-LP-5 Driver Return	-
		5	8-LP-4 Driver Return	-
		6	8-LP-3 Driver Return	-
		7	LED V+	-
		8	LED V+	-
CN15	.100" 7-Pin Header	1	LED V+	YEL BLK
		2	LED V+	YEL RED
		3	LED V+	-
		4	-	-
		5	8-LP-0 GI Return	WHT BLK
		6	8-LP-1 GI Return	RED BLK
		7	8-LP-2 GI Return	-
CN2	.100" 6-Pin Header, Node Extension Bus	1	Ground	BLK
		2	DIN	VIO BLK
		3	DOUT	VIO BRN
		4	SCK	VIO RED
		5	RCK	VIO ORG
		6	V+	RED
CN3	.100" 6-Pin Header, Node Extension Bus	1	Ground	BLK
		2	DIN	VIO BLK
		3	DOUT	VIO BRN
		4	SCK	VIO RED
		5	RCK	VIO ORG
		6	V+	RED

4.4 MID UPPER PLAYFIELD 48V DRIVER PINOUT NODE 9

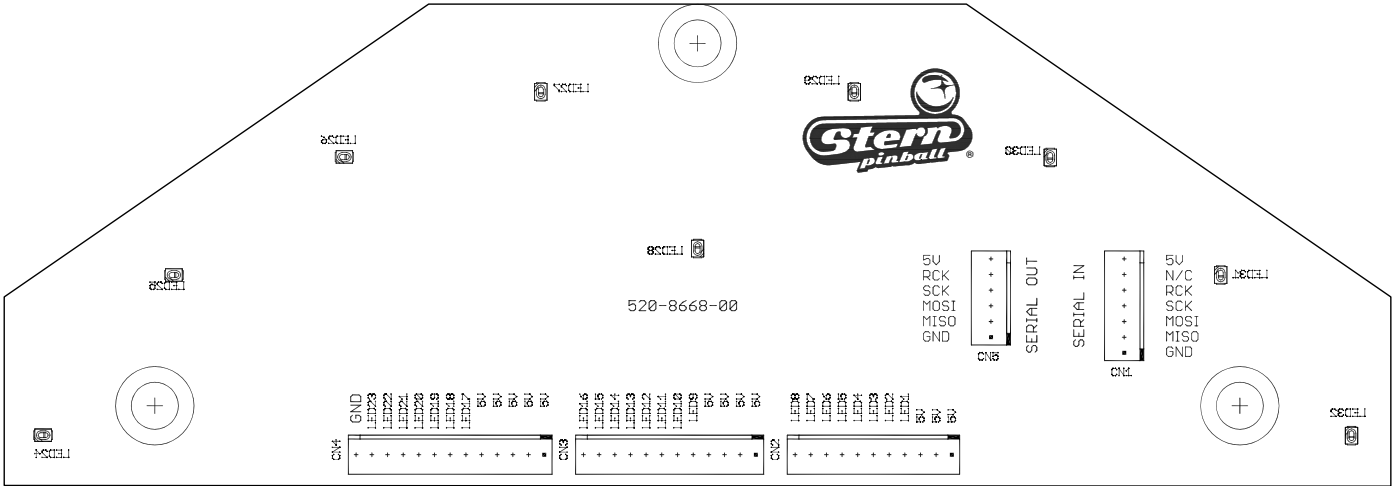
520-1070 / 520-1057-00



ID	Type	Pin	Description	Wire Color
SW1	Address DIP	-	Node 9 - OFF-OFF-ON-OFF	-
CN4	RJ45	-	SPIKE Node Bus	Multi
CN5	RJ45	-	SPIKE Node Bus	Multi
CN6	.156" 5-Pin Header Node Power	1	Ground	BLK
		2	Key	Key
		3	N/C	-
		4	N/C	-
		5	48VDC In	GRY
CN7	.156" 4-Pin Header (White)	1	48V Driver Power	GRY BRN
		2	9-DR-8 Driver Return	YEL ORG
		3	9-DR-6 Driver Return	YEL GRN
		4	9-DR-7 Driver Return	YEL BLU
CN8	.156 11-Pin Header (White)	1	48V Driver Power	GRY BRN
		2	48V Driver Power	GRY BRN
		3	48V Driver Power	GRY BRN
		4	48V Driver Power	GRY BRN
		5	9-DR-0 Driver Return	BRN BLK
		6	9-DR-5 Driver Return	YEL GRY
		7	9-DR-1 Driver Return	YEL VIO
		8	9-DR-8 Driver Return	-
		9	9-DR-4 Driver Return	ORG RED
		10	9-DR-2 Driver Return	ORG BLK
		11	9-DR-3 Driver Return	ORG BRN
CN9	.100" 8-Pin Header (Black)	1	V+	RED
		2	V+	-
		3	9-SW-24 Switch	LGN ORG
		4	9-SW-25 Switch	LGN YEL
		5	9-SW-26 Switch	LGN BLU
		6	9-SW-27 Switch	LGN VIO
		7	Ground	-
		8	Ground	BLK BLU
CN10	.100" 9-Pin Header	1	V+	-
		2	9-SW-28 Switch	GRY BLK
		3	9-SW-29 Switch	GRY BRN
		4	9-SW-30 Switch	GRY RED
		5	9-SW-31 Switch	-
		6	9-SW-16 Switch	-
		7	Ground	BLK BLU
		8	Ground	BLK BLU
		9	Ground	BLK BLU

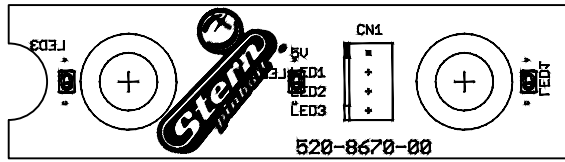
ID	Type	Pin	Description	Wire Color
CN11	.100" 12-Pin Header	1	V+	RED
		2	9-SW-26 Switch	-
		3	9-SW-27 Switch	-
		4	9-SW-17 Switch	TAN ORG
		5	9-SW-18 Switch	TAN YEL
		6	9-SW-19 Switch	TAN GRN
		7	9-SW-20 Switch	TAN BLU
		8	9-SW-21 Switch	TAN VIO
		9	9-SW-22 Switch	-
		10	9-SW-23 Switch	TAN
		11	Ground	BLK GRY
		12	Ground	BLK GRY
CN12	.100" 10-Pin Header (Orange)	1	V+	RED
		2	9-SW-8 Switch	WHT BRN
		3	9-SW-9 Switch	WHT RED
		4	9-SW-10 Switch	-
		5	9-SW-11 Switch	-
		6	9-SW-12 Switch	WHT GRN
		7	9-SW-13 Switch	WHT BLU
		8	9-SW-14 Switch	WHT VIO
		9	9-SW-15 Switch	-
		10	Ground	BLK WHT
CN13	.100" 10-Pin Header	1	V+	RED
		2	9-SW-0 Switch	PNK RED
		3	9-SW-1 Switch	PNK ORG
		4	9-SW-2 Switch	PNK YEL
		5	9-SW-3 Switch	PNK GRN
		6	9-SW-4 Switch	PNK BLU
		7	9-SW-5 Switch	PNK VIO
		8	9-SW-6 Switch	PNK GRY
		9	9-SW-7 Switch	PNK WHT
		10	Ground	BLK BRN
CN14	.100" 8-Pin Header	1	Ground	-
		2	9-LP-7 Driver Return	BRN RED
		3	9-LP-6 Driver Return	BRN ORG
		4	9-LP-5 Driver Return	BRN YEL
		5	9-LP-4 Driver Return	BRN GRN
		6	9-LP-3 Driver Return	BRN BLU
		7	LED V+	-
		8	LED V+	YEL
CN15	.100" 7-Pin Header	1	LED V+	YEL BLK
		2	LED V+	YEL RED
		3	LED V+	-
		4	-	-
		5	9-LP-0 GI Return	WHT BLK
		6	9-LP-1 GI Return	RED BLK
		7	9-LP-2 GI Return	-
CN2	.100" 6-Pin Header, Node Extension Bus	1	Ground	BLK
		2	DIN	VIO BLK
		3	DOUT	VIO BRN
		4	SCK	VIO RED
		5	RCK	VIO ORG
		6	V+	RED
CN3	.100" 6-Pin Header, Node Extension Bus	1	Ground	-
		2	DIN	-
		3	DOUT	-
		4	SCK	-
		5	RCK	-
		6	V+	-

4.5 9W LED BOARD 8B
520-8668-00

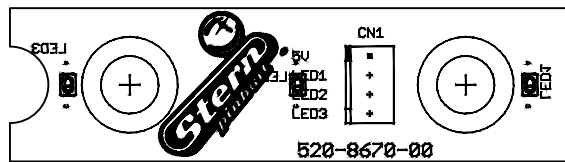


ID	Type	Pin	Description	Wire Color
CN1	.100" 7-Pin Header	1	Ground	BLK
		2	MISO Output Data	VIO-BLK
		3	MOSI Input Data	VIO-BRN
		4	SCK Serial Clock	VIO-RED
		5	RCK Register Clock	VIO-ORG
		6	NC	-
		7	+5 VDC IN	RED
CN2	.100" 11-Pin Header	1	+5 VDC	RED
		2	+5 VDC	RED
		3	+5 VDC	RED
		4	LED 1	YEL BRN
		5	LED 2	YEL RED
		6	LED 3	YEL ORG
		7	LED 4	YEL GRN
		8	LED 5	YEL BLU
		9	LED 6	YEL VIO
		10	LED 7	YEL GRY
		11	LED 8	YEL WHT
CN3	.100" 12-Pin Header	1	+5 VDC	RED
		2	+5 VDC	RED
		3	+5 VDC	RED
		4	+5 VDC	RED
		5	LED 9	BLU RED
		6	LED 10	BLU ORG
		7	LED 11	BLU YEL
		8	LED 12	BLU GRN
		9	LED 13	BLU VIO
		10	LED 14	BLU WHT
		11	LED 15	ORG BRN
		12	LED 16	ORG RED

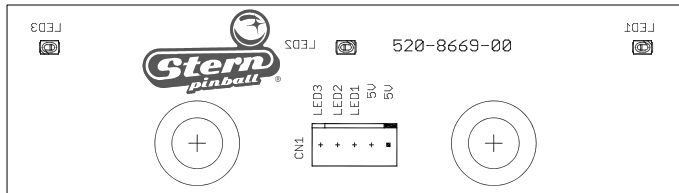
ID	Type	Pin	Description	Wire Color
CN4	.100" 13-Pin Header	1	+5 VDC	RED
		2	+5 VDC	RED
		3	+5 VDC	RED
		4	+5 VDC	-
		5	+5 VDC	-
		6	LED 17	BRN VIO
		7	LED 18	RED BRN
		8	LED 19	GRN BRN
		9	LED 20	BLU BRN
		10	LED 21	BRN RED
		11	LED 22	-
		12	LED 23	BRN YEL
		13	GND	-
CN5	.100" 6-Pin Header	1	Ground	BLK
		2	MISO Output Data	VIO-BLK
		3	MOSI Input Data	VIO-BRN
		4	SCK Serial Clock	VIO-RED
		5	RCK Register Clock	VIO-ORG
		6	V+	RED

4.6 3W LED BOARD 8B1**520-8670-00**

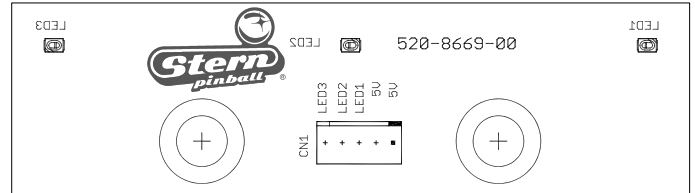
ID	Type	Pin	Description	Wire Color
CN1	.100" 4-Pin Header	1	5V	RED
		2	LED 1	YEL BRN
		3	LED 2	YEL RED
		4	LED 3	YEL ORG

4.7 3W LED BOARD 8B2**520-8670-00**

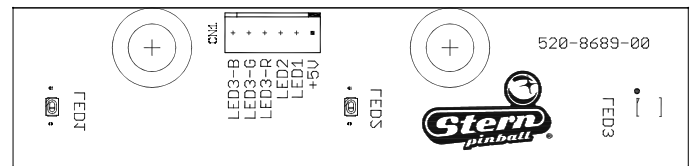
ID	Type	Pin	Description	Wire Color
CN1	.100" 4-Pin Header	1	5V	RED
		2	LED 1	YEL VIO
		3	LED 2	YEL BLU
		4	LED 3	YEL GRN

4.8 3W LED BOARD 8B3**520-8669-00**

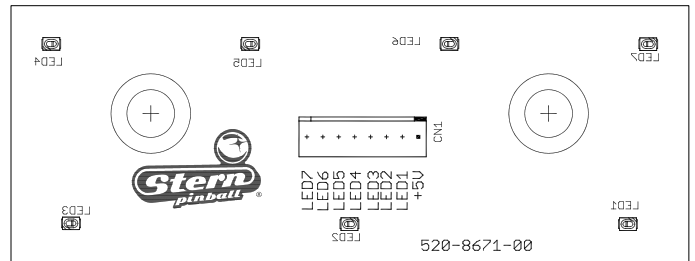
ID	Type	Pin	Description	Wire Color
CN1	.100" 5-Pin Header	1	5V	RED
		2	5V	-
		3	LED 1	BLU YEL
		4	LED 2	BLU ORG
		5	LED 3	BLU RED

4.9 3W LED BOARD 8B4**520-8669-00**

ID	Type	Pin	Description	Wire Color
CN1	.100" 5-Pin Header	1	5V	RED
		2	5V	-
		3	LED 1	BLU GRN
		4	LED 2	BLU VIO
		5	LED 3	BLU WHT

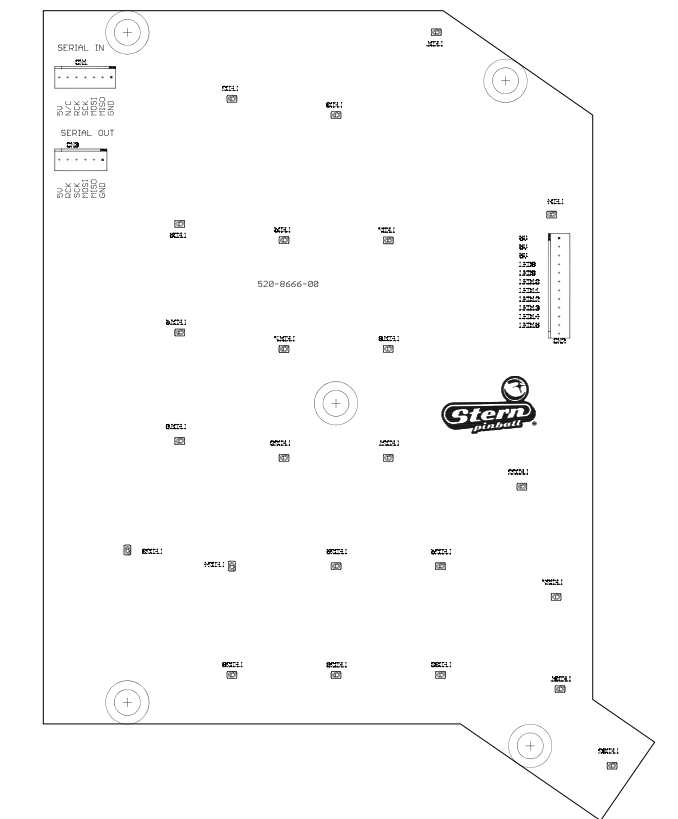
4.10 2W1R LED BOARD 8B5**520-8689-00**

ID	Type	Pin	Description	Wire Color
CN1	.100" 6-Pin Header	1	5V	RED
		2	LED 1	BRN YEL
		3	LED 2	BRN RED
		4	LED 3-R	RED BRN
		5	LED 3-G	GRN BRN
		6	LED 3-B	BLU BRN

4.11 7W LED BOARD 8C1**520-8671-00**

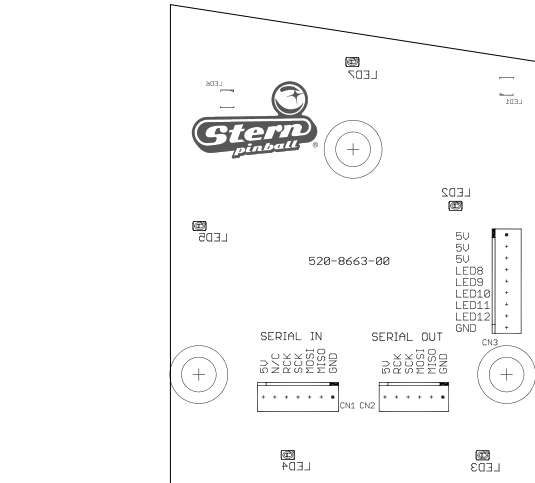
ID	Type	Pin	Description	Wire Color
CN1	.100" 8-Pin Header	1	5V	RED
		2	LED 1	GRN BRN
		3	LED 2	GRN RED
		4	LED 3	GRN ORG
		5	LED 4	GRN YEL
		6	LED 5	GRN BLU
		7	LED 6	GRN VIO
		8	LED 7	GRN GRY

4.12 24W LED BOARD 8C
520-8666-00



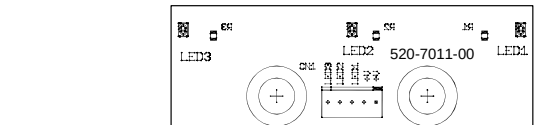
ID	Type	Pin	Description	Wire Color
CN1	.100" 7-Pin Header	1	Ground	BLK
		2	MISO Output Data	VIO-BLK
		3	MOSI Input Data	VIO-BRN
		4	SCK Serial Clock	VIO-RED
		5	RCK Register Clock	VIO-ORG
		6	NC	-
		7	+5 VDC IN	RED
CN2	.100" 12-Pin Header	1	+5 VDC	RED
		2	+5 VDC	-
		3	+5 VDC	-
		4	LED 8	GRN BRN
		5	LED 9	GRN RED
		6	LED 10	GRN ORG
		7	LED 11	GRN YEL
		8	LED 12	GRN BLU
		9	LED 13	GRN VIO
		10	LED 14	GRN GRY
		11	LED 15	-
		12	GND	-
CN3	.100" 6-Pin Header	1	Ground	-
		2	MISO Output Data	-
		3	MOSI Input Data	-
		4	SCK Serial Clock	-
		5	RCK Register Clock	-
		6	V+	-

4.13 5W2R LED BOARD 9A
520-8663-00

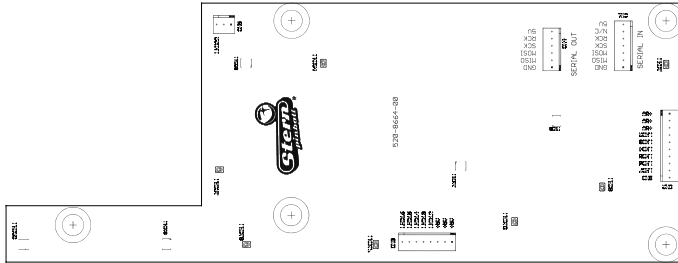


ID	Type	Pin	Description	Wire Color
CN1	.100" 7-Pin Header	1	Ground	BLK
		2	MISO Output Data	VIO-BLK
		3	MOSI Input Data	VIO-BRN
		4	SCK Serial Clock	VIO-RED
		5	RCK Register Clock	VIO-ORG
		6	NC	-
		7	+5 VDC IN	RED
CN3	.100" 9-Pin Header	1	+5 VDC	RED
		2	+5 VDC	RED
		3	+5 VDC	RED
		4	LED 8	BRN GRN
		5	LED 9	BRN BLU
		6	LED 10	BRN GRY
		7	LED 11	BRN WHT
		8	LED 12	-
		9	GND	-
CN2	.100" 6-Pin Header	1	Ground	BLK
		2	MISO Output Data	VIO-BLK
		3	MOSI Input Data	VIO-BRN
		4	SCK Serial Clock	VIO-RED
		5	RCK Register Clock	VIO-ORG
		6	V+	RED

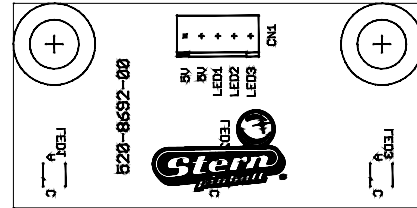
4.14 ELG 3 LED BOARD
520-7011-00



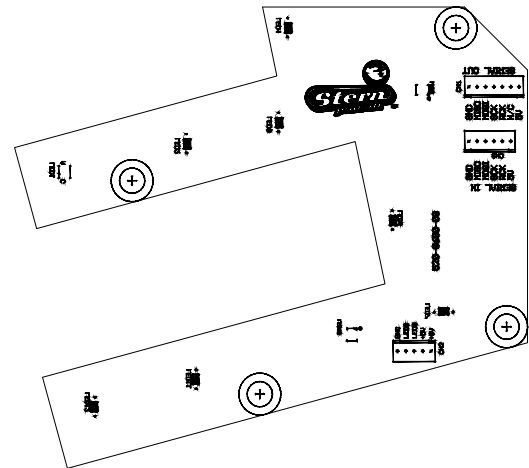
ID	Type	Pin	Description	Wire Color
CN1	.100" 5-Pin Header	1	5V	RED
		2	5V	-
		3	LP-1 Light Return	BRN RED
		4	LP-2 Light Return	BRN ORG
		5	LP-3 Light Return	BRN YEL

4.15 7W4R1F LED BOARD 9B**520-8664-00**

ID	Type	Pin	Description	Wire Color
CN1	.100" 7-Pin Header	1	Ground	BLK
		2	MISO Output Data	VIO-BLK
		3	MOSI Input Data	VIO-BRN
		4	SCK Serial Clock	VIO-RED
		5	RCK Register Clock	VIO-ORG
		6	NC	-
		7	+5 VDC IN	RED
CN2	.100" 10-Pin Header	1	+5 VDC	RED
		2	+5 VDC	RED
		3	+5 VDC	-
		4	LED 2	BRN RED
		5	LED 3	BRN ORG
		6	LED 4	BRN YEL
		7	LED 5	-
		8	LED 6	ORG GRN
		9	LED 7	ORG BLU
		10	GND	-
CN3	.100" 8-Pin Header	1	+5 VDC	RED
		2	+5 VDC	RED
		3	+5 VDC	RED
		4	LED 12	ORG VIO
		5	LED 13	ORG GRY
		6	LED 14	ORG WHT
		7	LED 15	ORG RED
		8	LED 16	-
CN4	.100" 6-Pin Header	1	Ground	BLK
		2	MISO Output Data	VIO-BLK
		3	MOSI Input Data	VIO-BRN
		4	SCK Serial Clock	VIO-RED
		5	RCK Register Clock	VIO-ORG
		6	V+	RED

4.16 3F LED BOARD 9B1**520-8692-00**

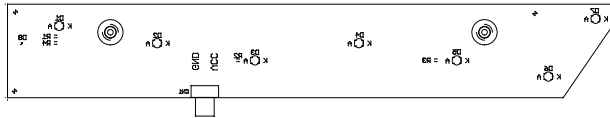
ID	Type	Pin	Description	Wire Color
CN1	.100" 5-Pin Header	1	5V	YEL
		2	5V	-
		3	LED 1	BRN RED
		4	LED 2	BRN ORG
		5	LED 3	BRN YEL

4.17 7W2R1F LED BOARD 9C**520-8690-00**

ID	Type	Pin	Description	Wire Color
CN1	.100" 7-Pin Header	1	Ground	BLK
		2	MISO Output Data	VIO-BLK
		3	MOSI Input Data	VIO-BRN
		4	SCK Serial Clock	VIO-RED
		5	RCK Register Clock	VIO-ORG
		6	NC	-
		7	+5 VDC IN	RED
CN2	.100" 5-Pin Header	1	+5 VDC	RED
		2	+5 VDC	RED
		3	LED 8	ORG BRN
		4	LED 9	ORG RED
		5	GND	-
CN3	.100" 6-Pin Header	1	Ground	-
		2	MISO Output Data	-
		3	MOSI Input Data	-
		4	SCK Serial Clock	-
		5	RCK Register Clock	-
		6	V+	-

4.20 TROUGH SERIAL OPTO TRANSMITTER

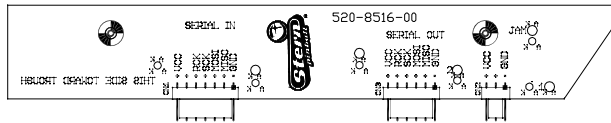
520-5344-00



ID	Type	Pin	Description	Wire Color
CN1	.100" 3-Pin Header	1	Ground	BLK
		2	N/C	-
		3	+5 VDC IN	RED

4.21 TROUGH SERIAL OPTO RECEIVER 8A

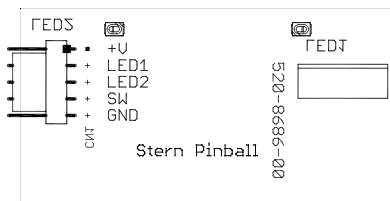
520-8516-00



ID	Type	Pin	Description	Wire Color
CN1	.100" 7-Pin Header	1	Ground	BLK
		2	MISO Output Data	VIO-BLK
		3	MOSI Input Data	VIO-BRN
		4	SCK Serial Clock	VIO-RED
		5	RCK Register Clock	VIO-ORG
		6	N/C	-
		7	+5 VDC IN	RED
CN2	.100" 3-Pin Header	1	Ground	BLK
		2	N/C	-
		3	+5 VDC IN	RED
CN3	.100" 6-Pin Header	1	Ground	-
		2	MISO Output Data	-
		3	MOSI Input Data	-
		4	SCK Serial Clock	-
		5	RCK Register Clock	-
		6	V+	-

4.22 GONG SWITCH PCB

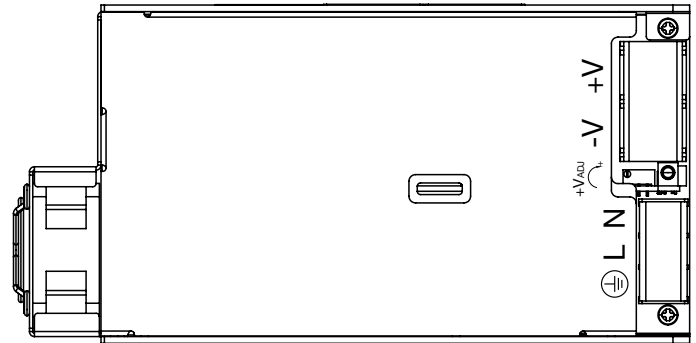
520-8686-00



ID	Type	Pin	Description	Wire Color
CN1	.100" 5-Pin Header	1	5V	RED
		2	LED 1	BRN GRN
		3	LED 2	BRN BLU
		4	SW 1	WHT RED
		5	GND	BLK WHT

4.23 POWER SUPPLY 48V/600W

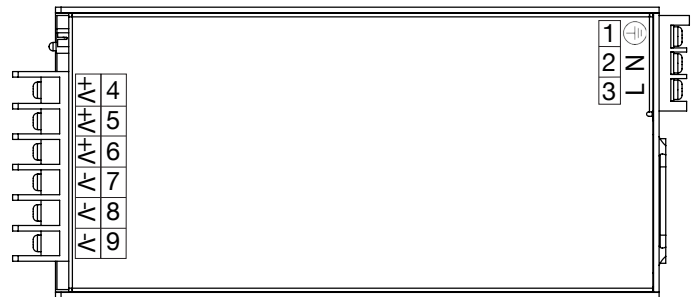
011-5011-00 (DELTA)



ID	Type	Pin	Description	Wire Color
CN1	Screw Terminal	+V	+48 V System Power	GRY
		-V	DC Ground	BLK
CN2	Potentiometer	+V ADJ	V Adjustment	N/A
CN3	Screw Terminal	N	AC Line Hot In	BLK
		L	AC Line Neutral In	WHT
		⊕	Earth Ground In	GRN

4.24 POWER SUPPLY 48V/600W

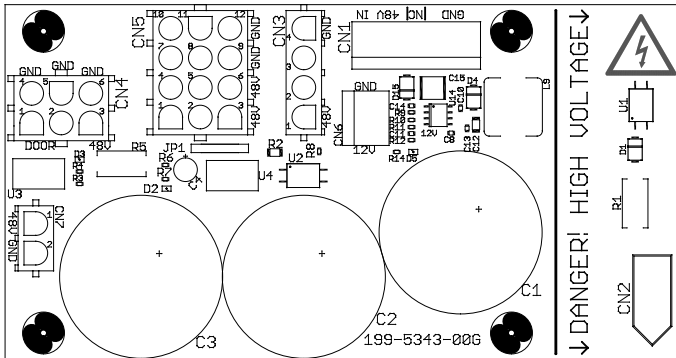
011-5004-00 (MEANWELL)



ID	Type	Pin	Description	Wire Color
CN1	Screw Terminal	1	Earth Ground In	GRN
		2	AC Line Neutral In	WHT
		3	AC Line Hot In	BLK
CN2	Screw Terminal	4	+48 V System Power	GRY
		5	+48 V System Power	GRY
		6	+48 V System Power	GRY
		7	DC Ground	BLK
		8	DC Ground	BLK
		9	DC Ground	BLK

4.25 POWER DISTRIBUTION BOARD

520-8096-00



ID	Type	Pin	Description	Wire Color
CN1	.156 in 7-Pin Housing Plug: 045-5259-07 Pin: 055-5331-00 Key: 060-5013-00	1	+48 VDC IN	GRY
		2	+48 VDC IN	GRY
		3	+48 VDC IN	GRY
		4	Key (n/c)	-
		5	Ground	BLK
		6	Ground	BLK
		7	Ground	BLK
CN2	.093 in 3-Pos Plug Plug: 045-5003-03 Pin: 055-5013-09	1	Line In (100-240 VAC)	BLK
		2	Neutral	WHT
		3	Earth Ground	GRN
CN3	0.084 in 4-Pos Plug Plug: 045-5200-04 Pin: 055-5033-08	1	+48 VDC to CPU Node	GRY
		2	Door Interlock Switch Status	GRY/RED
		3	Line Voltage Status	VIO
		4	Ground	BLK
CN4	0.084 in 6-Pos Plug Plug: 045-5200-06 Pin: 055-5033-08	1	Door Interlock Switch +48V	GRY
		2	Door Interlock Switch +48V	-
		3	Switched 48V Out (to Node 1)	GRY/YEL
		4	Door Interlock Return Ground	GRY/RED
		5	Door Interlock Return Ground	-
		6	Ground (to Node 1)	BLK
CN5	0.084 in 12-Pos Plug Plug: 045-5200-12 Pin: 055-5033-08	1	Switched 48V Node Power	GRY
		2	Switched 48V Node Power	GRY
		3	Switched 48V Node Power	GRY
		4	Switched 48V Node Power	GRY
		5	Switched 48V Node Power	GRY
		6	Switched 48V Node Power	GRY
		7	Node Ground	BLK
		8	Node Ground	BLK
		9	Node Ground	BLK
		10	Node Ground	BLK
		11	Node Ground	BLK
		12	Node Ground	BLK
CN6	.156 in 3-Pos Plug: 045-5259-03 Pin: 055-5331-00 (18awg)	1	Ground	-
		2	Ground	-
		3	+12VDC	-
CN7	.084 2-Pos Plug: 045-5200-02 Pin: 055-5033-08	1	+48 VDC to Topper Node	GRY
		2	Ground	BLK

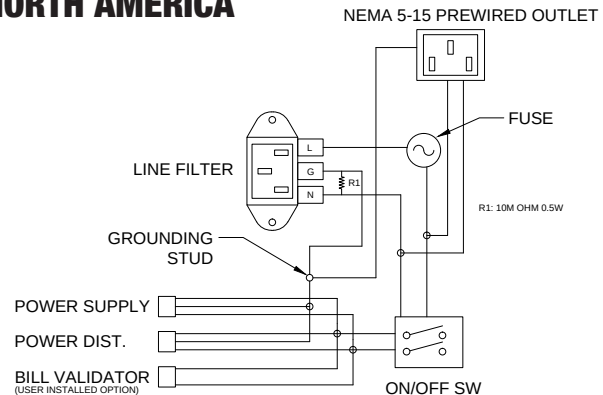
4.26 POWER PLUG WIRING

CAUTION

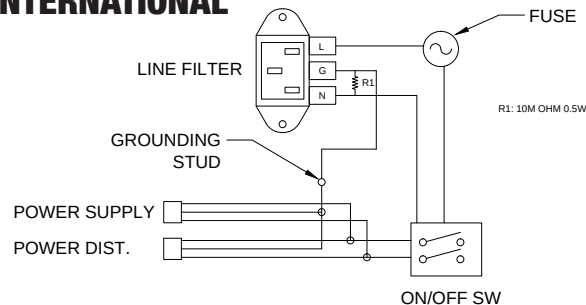
TO MAINTAIN SAFETY, GROUND WIRE FROM LINE FILTER IS TO BE MOUNTED FIRST ON GROUNDING STUD AND SECURED WITH NUT. ALL OTHER GROUNDS MAY THEN BE ATTACHED TO GROUNDING STUD.

REPLACE ALL FUSES WITH CORRECT CURRENT RATINGS!

NORTH AMERICA



INTERNATIONAL



LINE CORDS

Part Number	Description
034-6012-00	Line Cord, 3m, 5-15P USA
034-6012-01	Line Cord, 3m, CEE77P EUROPE
034-6012-02	Line Cord, 3m, BS1363P United Kingdom
034-6012-03	Line Cord, 3m, AS-NZS4417P Australia
034-6012-04	Line Cord, 3m, CEI23-16P Italy
034-6012-05	Line Cord, 3m, SEV1011P Switzerland
034-6012-06	Line Cord, 3m, JIS8303P Japan
034-6012-07	Line Cord, 3m, SI32P Israel
034-6012-08	Line Cord, 3m, BS546P S Africa, India
034-6012-09	Line Cord, 3m, IS6538P S. India

LINE FUSES

Line Voltage (Region)	Fuse Current	Type	Part Number
120V (North America)	8 A	Slow Blow 30G	200-5000-05
220/240v (Europe, Australia, UK)	5 A	Slow Blow 5 x 20mm	200-5003-00

5. PARTS REFERENCE

5.1 PLAYFIELD RUBBER PARTS

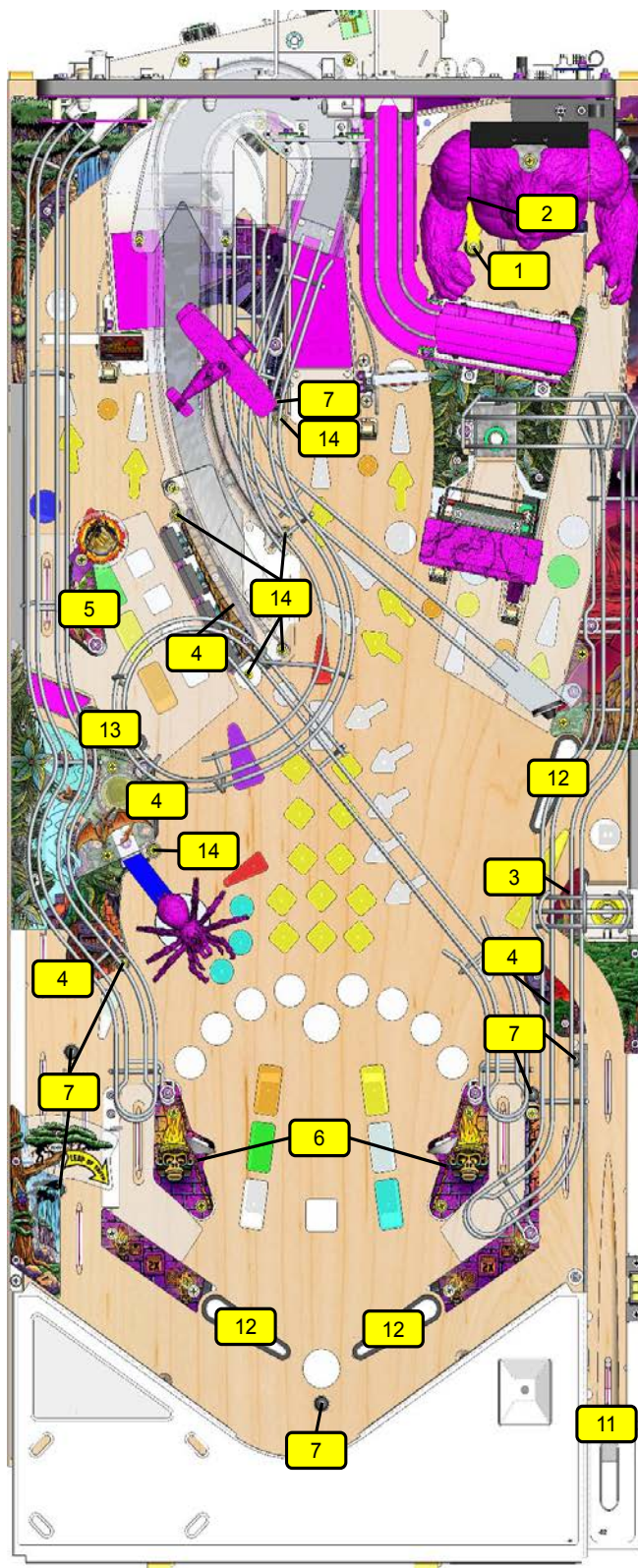


Figure 5.1.1. Rubber o-ring part locations

RUBBER O-RINGS

ID	Qty	Size (ID)	Size (OD)	Durometer	Color	Part Number
1	1	3/16"		50	Black	545-5348-01
2	1	5/16"		50	Black	545-5348-02
3	1	3/4"		50	Black	545-5348-04
4	4	1"		50	Black	545-5348-05
5	1	1 - 1/2"		50	Black	545-5348-07
6	2	2"		50	Black	545-5348-08
7	8		7/16"	50	Black	545-5348-17

Figure 5.1.2. Rubber o-ring part numbers and usage. ID: Inner Diameter, OD: Outer Diameter, Durometer: Higher number is firmer, less bounce, and more durable.

ID	Qty	Description	Color	Part Number
11	1	Plunger Tip	Black	545-5276-00
12	3	Flipper Rubber	Black	545-5277-00
13	1	Small Flipper Rubber	Black	545-5207-00
14	6	Post Sleeve	Black	545-5308-00
15	4	Bumper Pad (Sub assemblies)	Black	545-5105-00
16	6	Bumper Pad (Flippers)	Black	545-5428-00

Figure 5.1.3. Other rubber part numbers and usage

5.2 RUBBER SIZE CHART

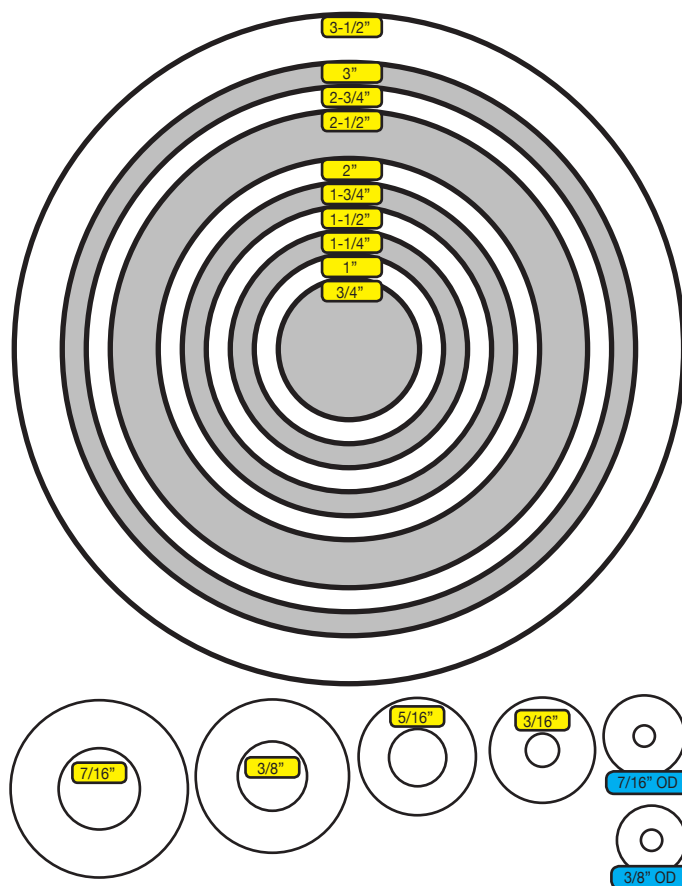
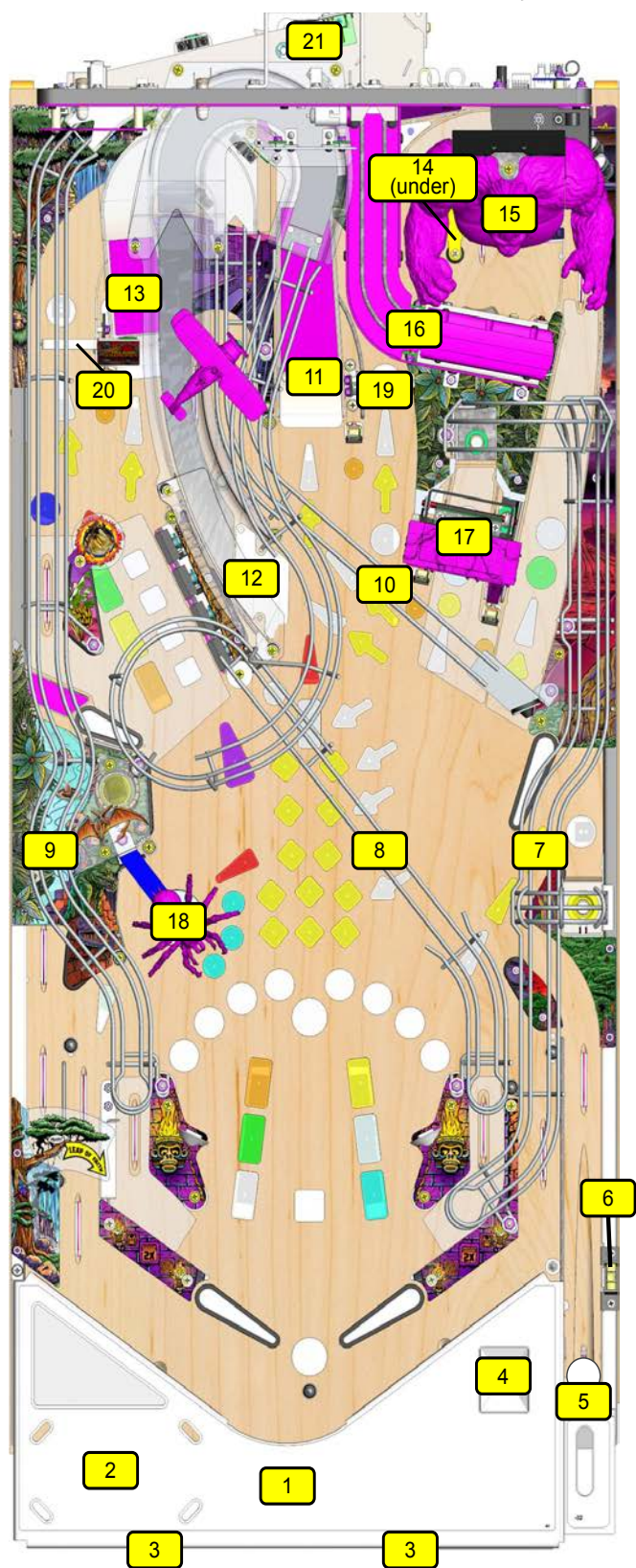


Figure 5.2.1. Rubber ring inner diameter sizing tool. Hold ring up to chart and read largest size on inside of ring. Dimensions are Inner Diameter (ID) unless otherwise noted as Outer Diameter (OD).

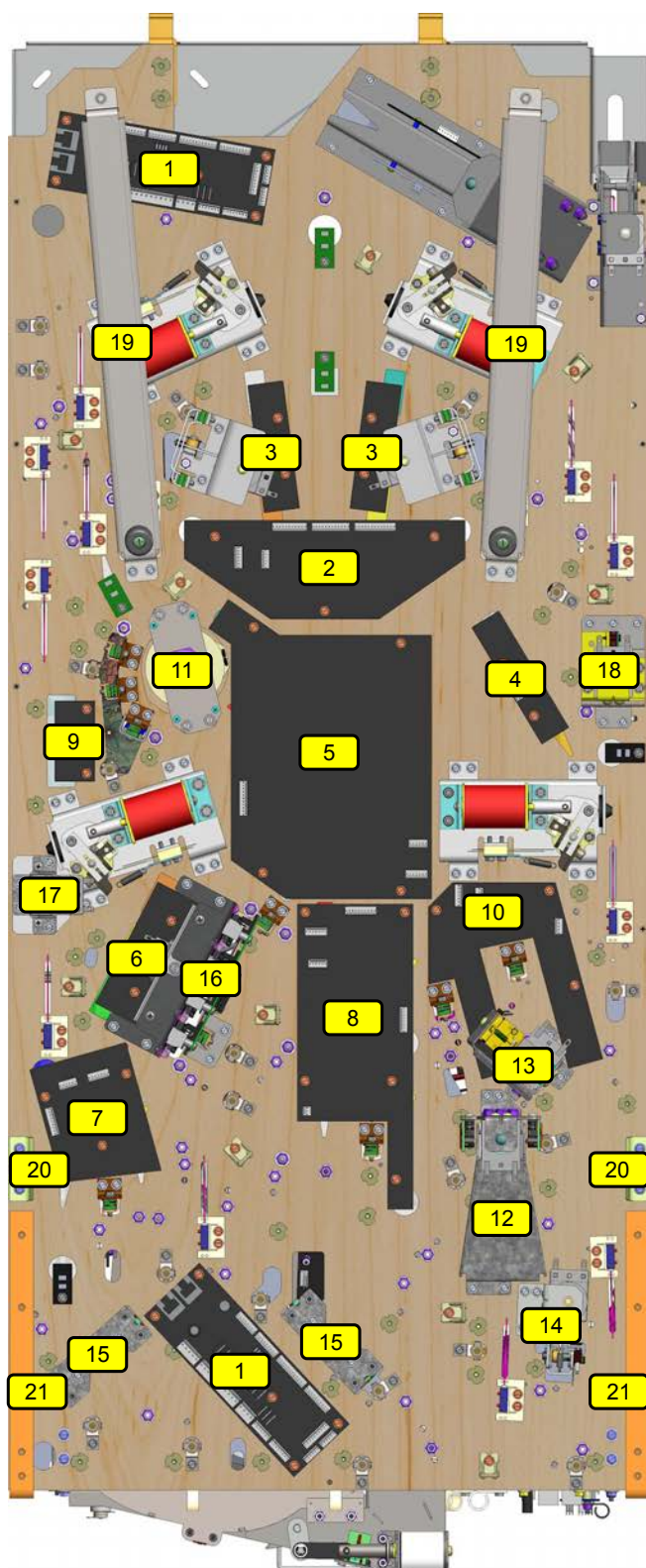
5.3 PLAYFIELD ASSEMBLIES, TOP



ID	Part Number	Description	Qty
1	510-7805-00	Bottom Arch Assembly	1
2	755-51Z6-XX	Instructions Card	1
3	535-8385-00	Welded Hanger Bracket	2
4	509-2020-00	QR Reader	1
5	260-5000-00	Pinballs	6
6	500-6815-00	Bubble Level Assembly	1
7	515-7883-00	Right Wire Ramp	1
8	511-9709-00	Biplane Wire Ramp Assembly	1
9	515-7884-00	Center Wire Ramp (On the Left side of playfield)	1
10	511-6908-00	Left Wire Ramp Assembly (In the Middle of playfield)	1
11	511-5425-02	Center Ramp Assembly	1
12	511-5425-04	Biplane Ramp Assembly	1
13	511-5425-01	Left Ramp Assembly	1
14	550-5061-06	Top Lane Mini Hood - Yellow	1
15	500-2963-00	King Kong Assembly	1
16	500-1042-00	Train Lock Assembly	1
17	500-2952-00	Gong Assembly	1
18	511-0032-02	Spider Pit Spider Spring Assembly	1
19	511-3044-00	Right Spinner Assembly	1
20	511-5475-16	Ball Guide Assembly -16 (With Left Orbit Spinner)	1
21	535-2288-00	Backpanel Handle	1

Figure 5.3.1. Major playfield assemblies, Top locations.

5.4 PLAYFIELD ASSEMBLIES, BOTTOM



ID	Part Number	Description	Qty
1	520-1070-00 520-1057-00	Core Node Driver Board	2
2	520-8668-00	9W MC LED Board (8b)	1
3	520-8669-00	3 W-MC LED Board (8b3, 8b4)	2
4	520-8689-00	2W1R LED Board (8b5)	1
5	520-8666-00	24W MC LED Board (8c)	1
6	520-8671-00	7W ML LED Board (8c1)	1
7	520-8663-00	5W2R TL LED Board (9a)	1
8	520-8664-00	7W4R1F LED Board (9b)	1
9	520-8692-00	3F LM LED Board (9b1)	1
10	520-8690-00	7W2R1F TR LED Board (9c)	1
11	511-7596-01	Magnet Assembly	1
12	500-2962-00	Gong Subway VUK Assembly	1
13	511-5437-20	Gong Coil Assembly (parts below attach to the Gong Plunger)	1
-	266-5076-00	Compression Spring	1
-	530-5511-00	Plunger Head	1
-	237-5995-00P	Screw, 10-32 X 1/2" HWH Serr MS Zinc, Patch	1
14	500-1198-01	Kicker Target Assembly	1
15	511-8968-00	Opto Bracket Assembly, 2.875IN	2
16	500-1110-04-02	4-Bank Drop Target Assembly	1
17	500-2961-00	River Diverter Assembly	1
18	500-7429-00	Kong Cave VUK	1
19	511-7621-00	Support Rail Assembly	2
20	500-5329-03	Pivot Bracket Assembly	2
21	535-5988-01	Edge Slide Bracket	2

Figure 5.4.1. Major playfield assemblies, Bottom locations.

5.5 BACKBOX PARTS

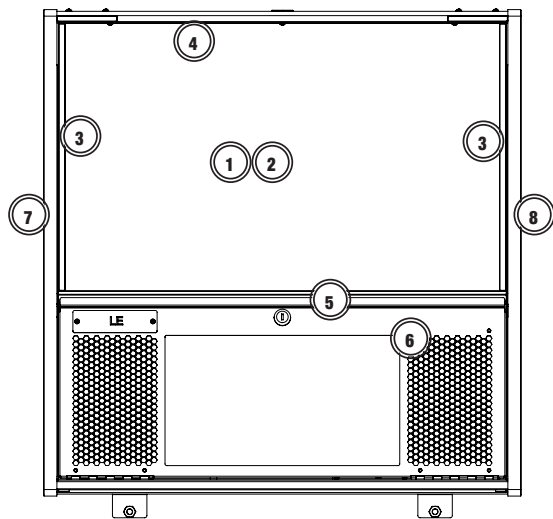


Figure 5.5.1. Backbox external assemblies and components

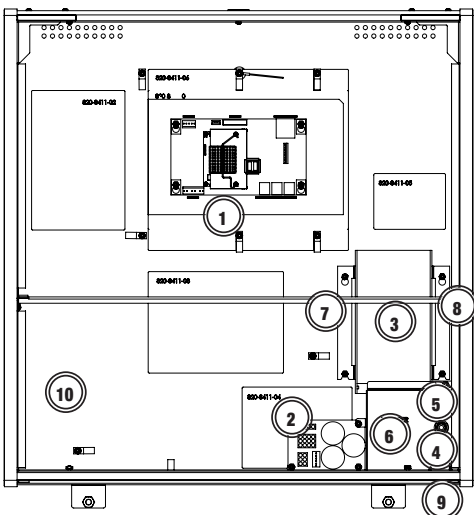


Figure 5.5.2. Backbox internal assemblies and components

EXTERNAL

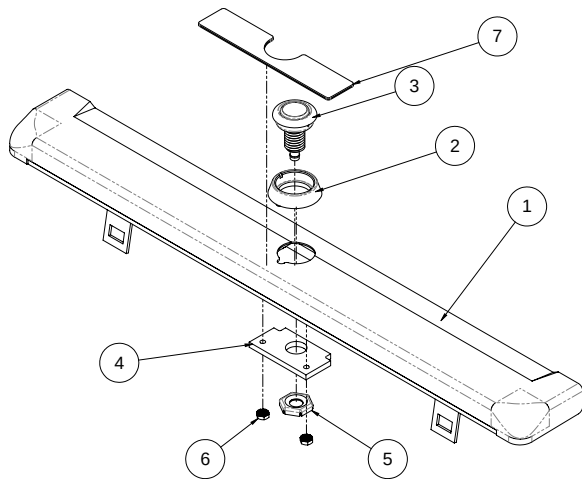
ID	Part Number	Description	Qty
1	660-5052-00	Backglass	1
2	830-8426-Z6	Mirror Backglass [LE]	1
	830-8427-Z7	Translite Art [Premium]	1
3	545-5018-17	Plastic Extrusion 15-.450"	2
4	545-5018-15	Glass Channel 26"	1
5	545-6313-01	Glass Lift Channel 26"	1
6	500-9996-00	LCD Speaker Panel Assembly	1
7	820-90Z6-01	Left Backbox Decal [LE]	1
	820-76Z7-01	Left Backbox Decal [Premium]	1
8	820-90Z6-02	Right Backbox Decal [LE]	1
	820-76Z7-02	Right Backbox Decal [Premium]	1
9	515-9866-00	Backbox Bottom Bracket [Not Labeled]	1

INTERNAL

ID	Part Number	Description	Qty
1	509-1003-01	CPU Node Board	1
2	520-8096-00	Power Distribution Board	1
3	011-5004-00	Power Supply 48V/600W (Meanwell)	1
	011-5011-00	Power Supply 48V/600W (Delta)	1
4	205-5001-00	Fuse Holder - Screw In	1
	200-5000-05	8A SB Fuse	1
5	515-9769-00	Utility Outlet (USA)	1
6	535-1130-00	Cover AC, 600W (Meanwell)	1
	535-3050-00	Cover AC, 600W (Delta)	1
7	535-0879-00	P. S. Bracket, 600W Left (Meanwell)	1
*	535-0094-00	P. S. Bracket, 600W (Delta only uses 1)	1
8	535-1161-00	P. S. Bracket, 600W Right (Meanwell)	1
9	180-5001-03	Power Switch	1
10	520-5370-72	Speaker Lights Node Board [LE]	1

5.6 LOCKDOWN BAR ASSEMBLY W/ CENTER BUTTON

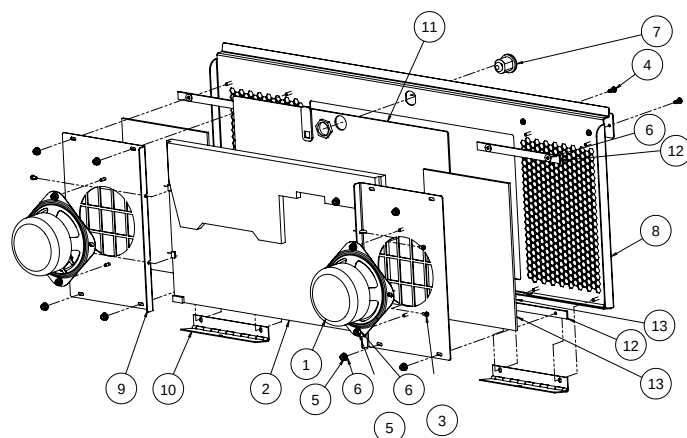
500-9856-00 [LE] & 500-2440-00 [PRE]



ID	Part Number	Description	Qty
1	500-2441-14	FRONT MOLD ASSEMBLY - CENTER BUTTON - RAVEN BLACK [LE]	1
	500-2441-00	FRONT MOLD ASSEMBLY - CENTER BUTTON - WRINKLED BLACK [PREMIUM]	1
2	545-7292-10	SPACER, CENTER BUTTON	1
3	515-7791-00	CENTER BUTTON ASSEMBLY	1
4	545-7291-00	TOP BUTTON BAR	1
5	240-5003-01	PAL NUT	1
6	240-5104-00	8-32 KEPS NUT	2
7	830-5514-00	PLASTIC, FRONT MOLDING, KING KONG [LE ONLY]	1

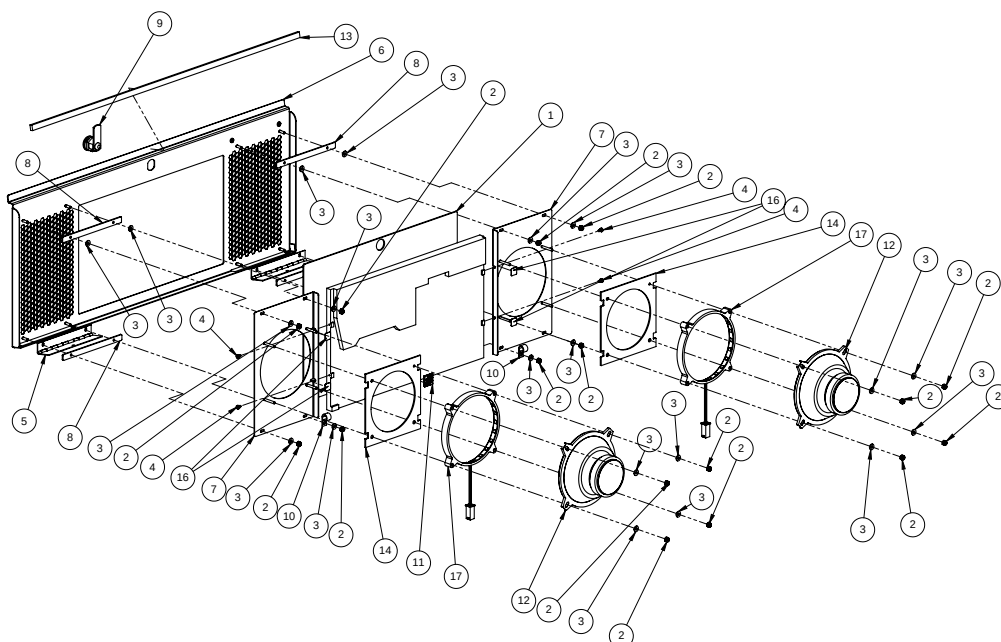
5.7 SPEAKER PANEL PARTS

PREMIUM : 500-9996-00



ID	Part Number	Description	Qty
1	031-5004-02	Speaker, 4" x 4" - 8 Ohm	2
2	116-0023-00	1366 x 768 Display LCD Panel	1
	037-1116-00	LCD LVDS Cable	1
	037-1115-00	LCD Back Light Cable [Innolux]	1
	037-1119-00	LCD Back Light Cable [Sharp]	1
3	237-6188-01	Screw, M3x0.5 X 6MM PPH Sems Zinc	4
4	237-6307-06	6-32 X 3/8" Torx Stainless Steel Screw	2
5	240-5005-00	6-32 Nylon Stop Nut	12
6	242-5001-00	#6 Washer	16
7	355-5168-00-00	Nut: Lock w/ Cam	1
8	515-9842-00	Speaker Panel - LCD	1
9	515-9843-00	Speaker Plate	2
10	515-9845-00	Hinge, Speaker Panel, LCD	2
11	545-9877-00	LCD Window	1
12	545-9877-01	Spacer, Small - LCD Speaker Panel	4
13	626-5109-00	Speaker Foam - LCD Panel	2

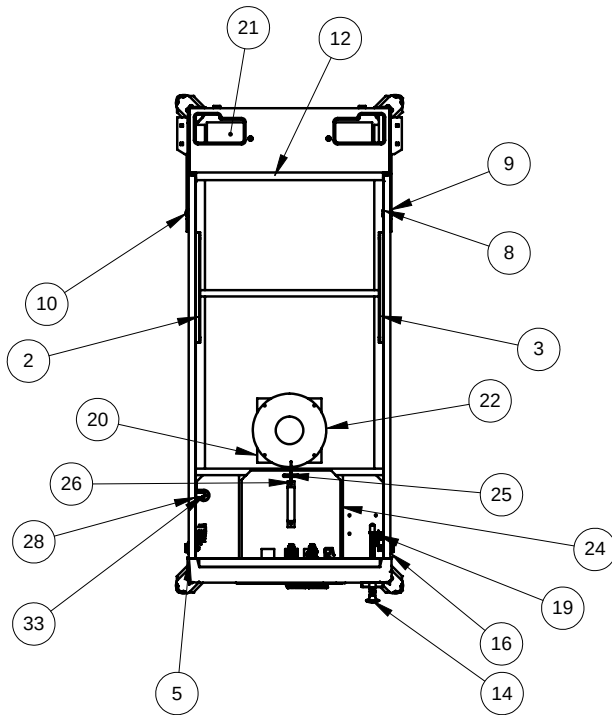
LE : 500-2442-Z6



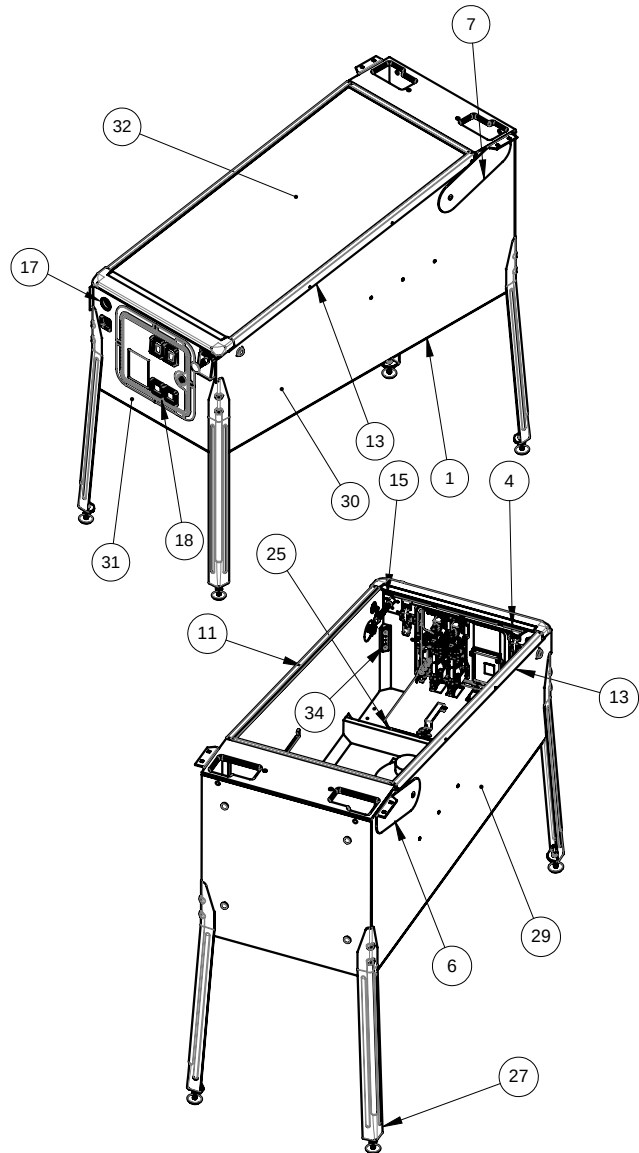
ID	Part Number	Description	Qty
1	545-9877-00	LCD WINDOW	1
2	240-5005-00	6-32 NYLON STOP NUT	16
3	242-5001-00	#6 WASHER	20
4	237-6188-01P	SCREW, M3x0.5 X 6MM PPH SEMS ZINC PATCH	4
5	515-9845-00	HINGE, SPEAKER PANEL, LCD	2
6	515-9842-00	LCD SPEAKER BRACKET - BLACK MINI-TEX	1
7	515-1941-00	SPEAKER PLATE, 5.25" DRIVERS	2
8	545-9877-01	SPACER, SMALL - LCD SPEAKER PANEL	4
9	355-5168-00-00	LOCK ASSEMBLY, BLACK, 5/8"TL + 1.8"LG STRAIGHT CAM	1

ID	Part Number	Description	Qty
10	040-5016-00B	CABLE CLAMP 0.38 BLACK	2
11	040-5002-00	MOUNTING PAD	1
12	031-5017-00	SPEAKER, 35W 4OHM 5-1/4" KENWOOD	2
13	626-5001-00	FOAM RUBBER, 3/8" W X 3/16" THK	1
14	546-7714-00	SPEAKER RING, KING KONG	2
15	116-0023-00	1366 x 768 DISPLAY LCD PANEL	1
	037-1116-00	LCD LVDS CABLE	1
	037-1115-00	LCD Back Light Cable [Innolux]	1
	037-1119-00	LCD Back Light Cable [Sharp]	1
16	820-1098-00	DECAL, LIGHT BLOCKER, SPEAKER PANEL	4
17	511-1135-00	ASM, SPEAKER LIGHT RING	2

5.8 CABINET PARTS



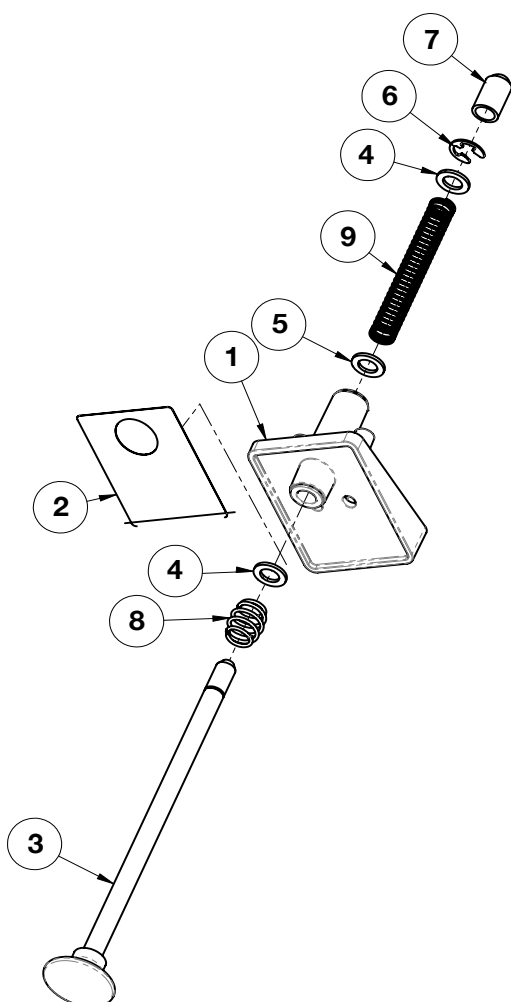
ID	Part Number	Description	Qty
1	525-6026-01	Cabinet Assembly, Single Button	1
2	535-5989-00	Slide & Pivot Bracket - Left Side	1
3	535-5990-00	Slide & Pivot Bracket - Right Side	1
4	535-2051-00	Cabinet Playfield Support Bracket	1
5	500-9856-00	Front Molding Assembly - Raven Black W/ Plate [LE]	1
	500-2440-00	Front Molding Assembly - Wrinkle Black [Premium]	1
6	535-7999-14L	Pivot Hinge, Left - Raven Black [LE]	1
	535-7999-00	Pivot Hinge, Left - Wrinkle Black [Premium]	1
7	535-7999-14R	Pivot Hinge, Right - Raven Black [LE]	1
	535-7999-01	Pivot Hinge, Right - Wrinkle Black [Premium]	1
8	254-5042-00	Spacer Nut, Hex, 1/2"OD, 1/4-20	2
9	242-5084-00	Washer, 1/2" I.D., 3/16" THK	2
10	231-5072-00	1/4-20 X 1/2" Carriage Bolt	2
11	545-5017-00	Plastic Channel	2
12	545-5038-00	Glass Rear Extrusion	1
13	535-3328-01-Z6	Side Armor Assembly Left - King Kong [LE]	1
	535-3328-02-Z6	Side Armor Assembly Right - King Kong [LE]	1
	535-0902-01-00	Side Armor Left- Wrinkle Black [Premium]	1
	535-0902-02-00	Side Armor Right- Wrinkle Black [Premium]	1
14	500-2604-07	Ball Shooter Assembly - Orange Spring	1
15	535-5027-01	Plunger Support Plate, Notched	1
16	500-1169-00	Flipper Button Assy - Black	2
17	500-1060-44-LED	Start Button	1
18	501-5018-173	Coin Door 2-Chute No Emboss	1
19	180-5164-01	Flipper Switch, Double	2
20	545-5072-03	Grill - Speaker / Vent	1
21	545-5072-02	Grill - Speaker / Vent	1
22	031-5016-00	Woofer, 8" Round, 4Ω [LE]	1
	031-5007-01	Speaker, Cabinet 8" Round, 4Ω [Premium]	1
23	545-5090-00	Cash Box - Plastic	1
24	535-5013-03	Cash Box Cover	1
25	535-7562-00	Cash Box Lock Bracket Wire	1



ID	Part Number	Description	Qty
26	535-7772-00	Hair Pin Clip	1
27	500-5921-14	Leg Assembly - Raven Black [LE]	4
	500-5921-50	Leg Assembly - Wrinkle Black [Premium]	4
28	516-0007-00	Tilt Assembly	1
	535-5029-00	Tilt Plumb Bob	1
29	820-90Z6-03	Decal, Cabinet Left, King Kong LE	1
	820-76Z7-03	Decal, Cabinet Left, King Kong Premium	1
30	820-90Z6-04	Decal, Cabinet Right, King Kong LE	1
	820-76Z7-04	Decal, Cabinet Right, King Kong Premium	1
31	820-90Z6-05	Decal, Cabinet Front, King Kong LE	1
	820-76Z7-05	Decal, Cabinet Front, King Kong Premium	1
32	660-5053-00	High Resolution Glass [LE]	1
	660-5001-00	Playfield Glass [Premium]	1
33	520-6967-72	Cabinet Node Board	1
34	535-2049-00	Corner Brackets For Cabinet Legs	4
	234-5102-00	Screw, 8 X 5/8" SLT HWH AB Zinc	24
35	820-8429-Z6R	Interior Cabinet Decal, Right, King Kong LE	1
	820-8429-Z6L	Interior Cabinet Decal, Left, King Kong LE	1
	820-90Z6-XX	Cabinet Decal Replacement Set, Speaker Panel	
	820-76Z7-XX	Decal Not Included	

5.9 BALL SHOOTER ASSEMBLY

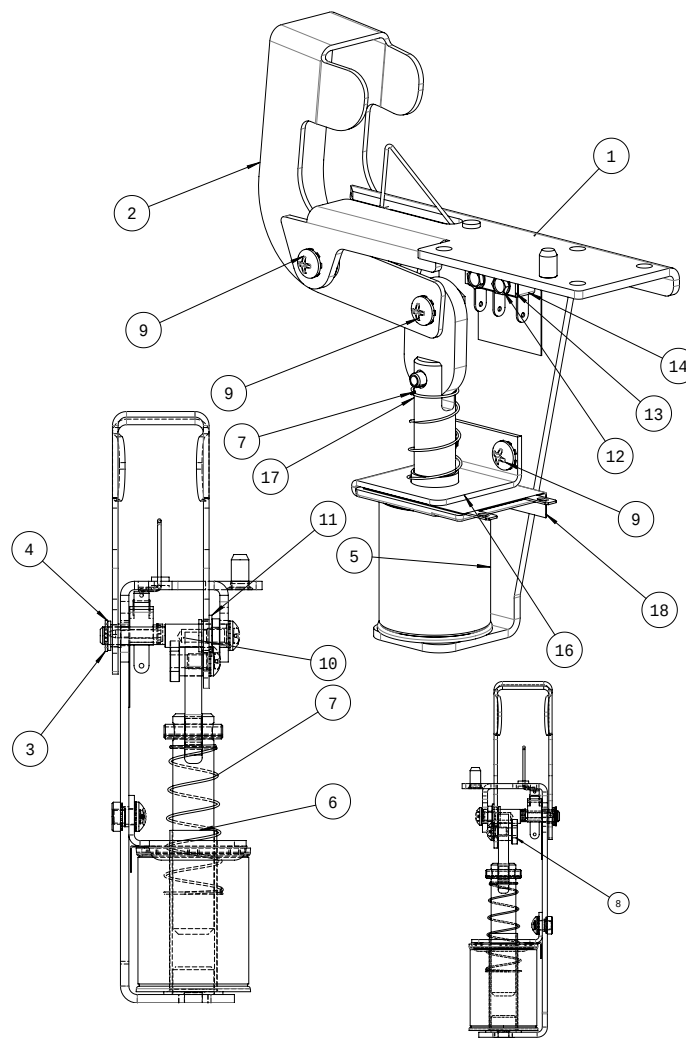
500-2604-07



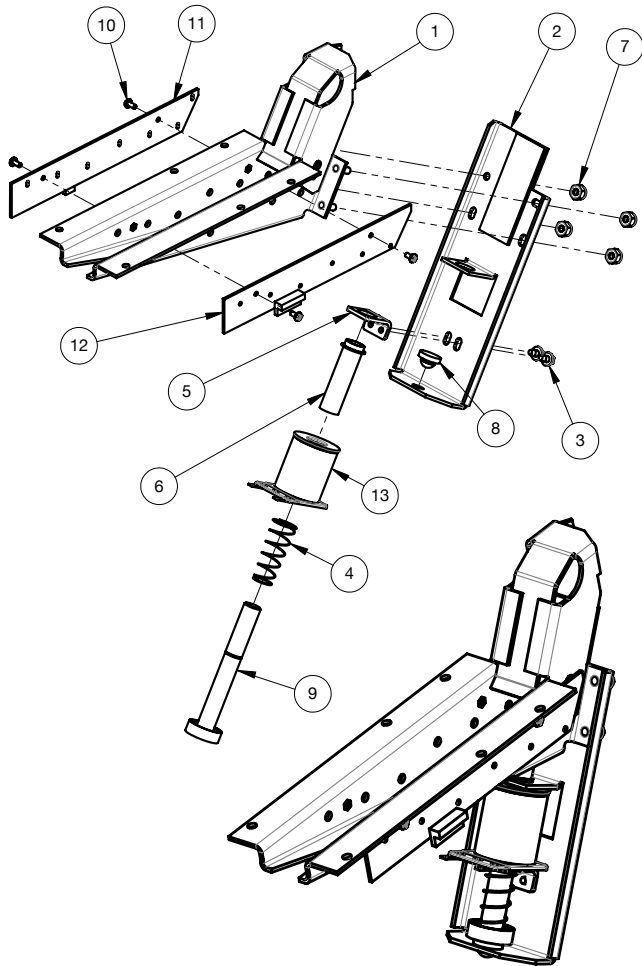
ID	Part Number	Description	Qty
1	515-2436-01	HOUSING ASSEMBLY	1
2	820-1408-00	DECAL - SHOOTER HOUSING SPI	1
3	515-6557-00	ROD ASSEMBLY	1
4	242-5014-00	WASHER 3/8 ID X 5/8 OD X 1/16"	2
5	242-5637-00	NYLON WASHER 3/8 ID X 5/8 OD X 1/16"	1
6	270-5012-00	RETAINING RING, 3/8"	1
7	545-5276-00	RUBBER TIP	1
8	266-5010-00	COMPRESSED SPRING (SHORT)	1
9	266-5001-07	COMPRESSED SPRING (LONG) - ORANGE	1

5.10 AUTO LAUNCH ASSEMBLY

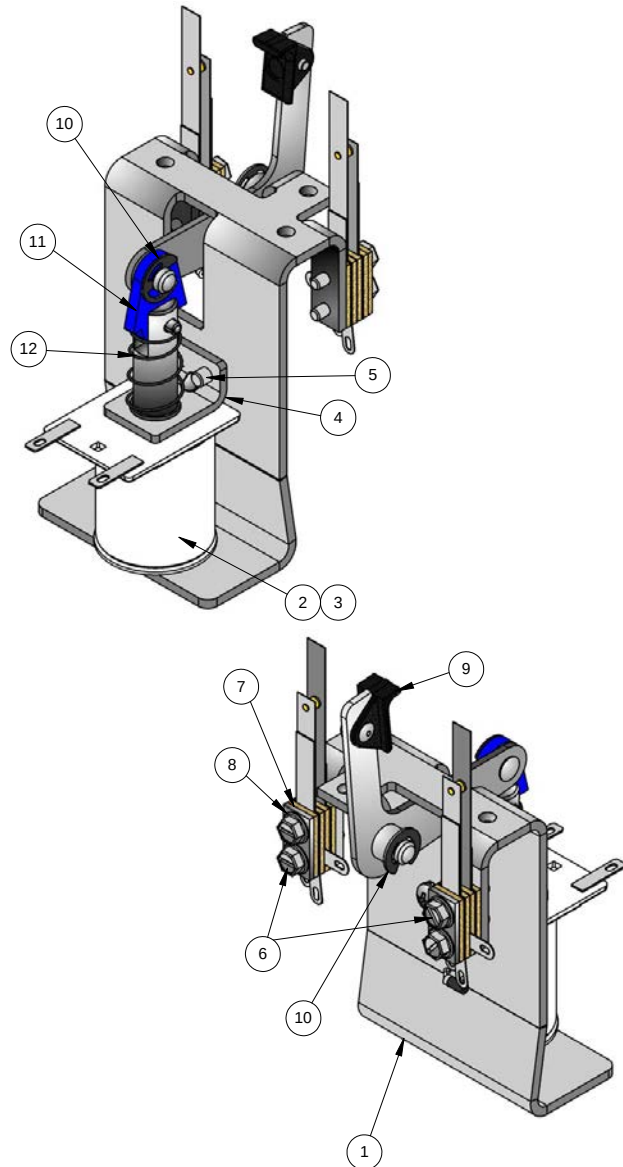
500-9818-02



ID	Part Number	Description	Qty
1	515-9689-01	MAIN BRKT: AUTO-PLUNGER	1
2	535-0728-00	KICKER ARM, AUTO-PLUNGER	1
3	270-5001-00	RETAINING E-RING, 3/16" SHAFT OD	1
4	545-5352-00	NYLINER, 3/16" SHAFT	1
5	090-5001-ND	COIL - 23-800, NO DIODE	1
6	545-5411-00	COIL SLEEVE	1
7	266-5020-00	COMPRESSION SPRING-CONICAL	1
8	530-7834-00	PIN: KICKER ARM, AUTO-PLUNGER	1
9	232-5300-00	SCREW, 8-32 X 1/4" PPH SEMS	4
10	530-7835-00	PIVOT, AUTO-PLUNGER	1
11	545-5423-00	NYLINER, 1/4" SHAFT, 4L1-FF	1
12	237-5937-02	SCREW, 2-56 X 1/2" HWH MS	2
13	535-6539-00	SWITCH BODY PROTECT PLATE	1
14	180-5157-01	SHOOTER SWITCH - SHORT ARM	1
15	545-6268-00	FISCHE PAPER	1
16	535-0762-00	COIL BRACKET-AUTO PLUNGER	1
17	515-6304-03	PLUNGER / LINK ASSEMBLY	1
18	545-0762-00	FISCHE PAPER: AUTO-LAUNCHER	1

5.11 BALL TROUGH ASSEMBLY**500-9820-01**

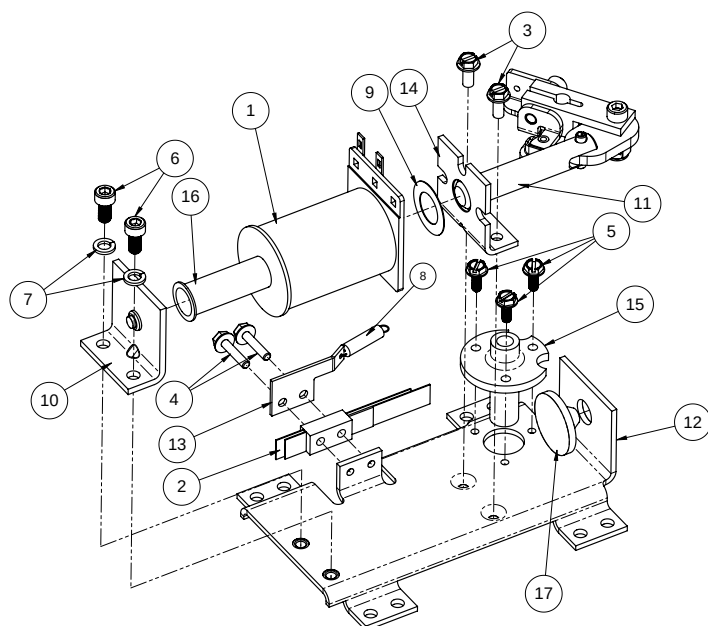
ID	Part Number	Description	Qty
1	515-7811-00	MAIN BRKT. BALL TROUGH	1
2	515-7812-00	COIL BRACKET, BALL TROUGH	1
3	237-5975-04	SCREW, 8-32 X 1/4" HWH SWAGE SERR	2
4	266-5020-00	COMPRESSION SPRING-CONICAL	1
5	535-5203-03	COIL RETAINING BRACKET	1
6	545-5076-01	COIL SLEEVE	1
7	240-5102-00	8-32 NYLON LOCK NUT	4
8	545-5105-00	RUBBER BUMPER	1
9	515-7309-01	PLUNGER ASSEMBLY	1
10	237-5909-00	SCREW, 4-40 X 1/4" PPH SEMS	4
11	520-5344-00	TROUGH BOARD #1 - ILED TRANSMITTER	1
12	520-8516-00	TROUGH BOARD #2 - RECEIVER	1
13	090-5004-ND	COIL 27-1500 - NO DIODE	1
98*	605-5006-00	SHRINK TUBING 1/8"	.42 FT.
99*	036-5611-11-F5	CABLE TROUGH OPTOS	1

5.12 SLINGSHOT ASSEMBLY**500-9920-01**

ID	Part Number	Description	Qty
1	515-5339-01	SLINGSHOT BRACKET ASSEMBLY	1
2	090-5044-ND	COIL 26-1200 - NO DIODE	1
3	545-5031-00	COIL SLEEVE	1
4	535-5203-03	COIL RETAINER BRACKET	1
5	232-5301-00	8-32 X 3/8 PPH MS EXT SEMS ZC	2
6	180-5231-00	SWITCH SLING SHOT 2 LUG CENTER	2
7	535-5045-00	SWITCH PLATE	2
8	237-5976-04	6-32 X 5/8 SLOT SER HWH SW	4
9	515-5340-01	ARM & TIP ASSEMBLY	1
10	270-5002-00	RETAINING RING - 1/4 DIA	2
11	515-5338-00	PLUNGER & LINK ASSEMBLY	1
12	266-5020-00	COMP SPRING CONICAL	1
13	036-5604-00	4" GENERIC JUMPER	2

5.13 FLIPPER ASSEMBLY, LEFT & UPPER LEFT

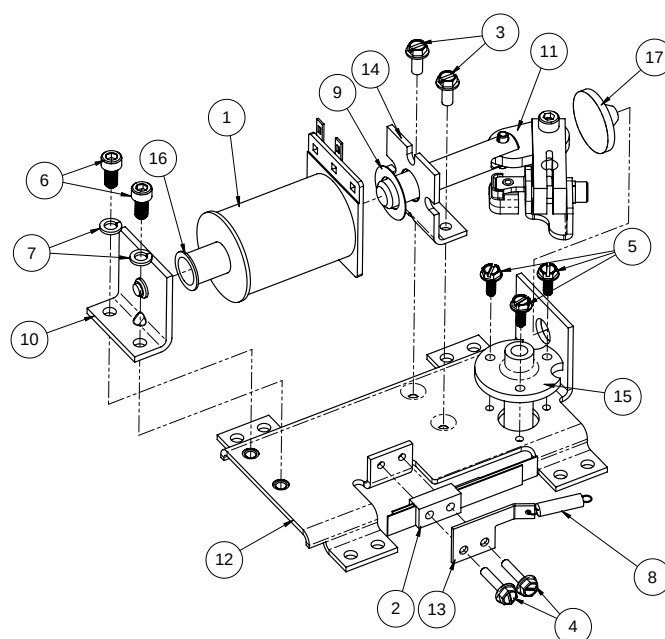
500-6543-12-ND



ID	Part Number	Description	Qty
1	090-5032-ND	FLIPPER COIL	1
2	180-5149-00	SWITCH, END-OF-STROKE	1
3	237-5975-00	SCREW, 8-32 X 3/8" HWH SWAGE ZN	2
4	237-5976-04	SCREW, 6-32 X 5/8" HWH SWAGE	2
5	237-6388-00	SCREW, 6-32 X 3/8", SLOTTED HWH, TYPE F	3
6	237-6389-00	SCREW, 10-32 X 3/8", SHC	2
7	244-5003-00	#10 LOCK WASHER, SPLIT	2
8	265-5035-00	EXTENSION SPRING	1
9	269-5002-00	SPRING WASHER	1
10	515-6308-01	COIL STOP ASSEMBLY	1
11	515-7203-01	PLUNGER / CRANK ASSEMBLY	1
12	535-7275-01	FLIPPER BASE PLATE, LEFT	1
13	535-7354-01	SWITCH PLATE / SPRING RTN BRKT	1
14	535-7356-00	COIL BRACKET	1
15	545-5070-00	FLIPPER BUSHING	1
16	545-5388-00	COIL SLEEVE	1
17	545-5428-00	RUBBER BUMPER	1
18	515-5133-08-06	FLIPPER BAT (WHITE) AND SHAFT	1
	544-2001-09-08	SMALL FLIPPER BAT (WHITE)	1
19	545-5277-00	FLIPPER RUBBER	1

5.14 FLIPPER ASSEMBLY, RIGHT & UPPER RIGHT

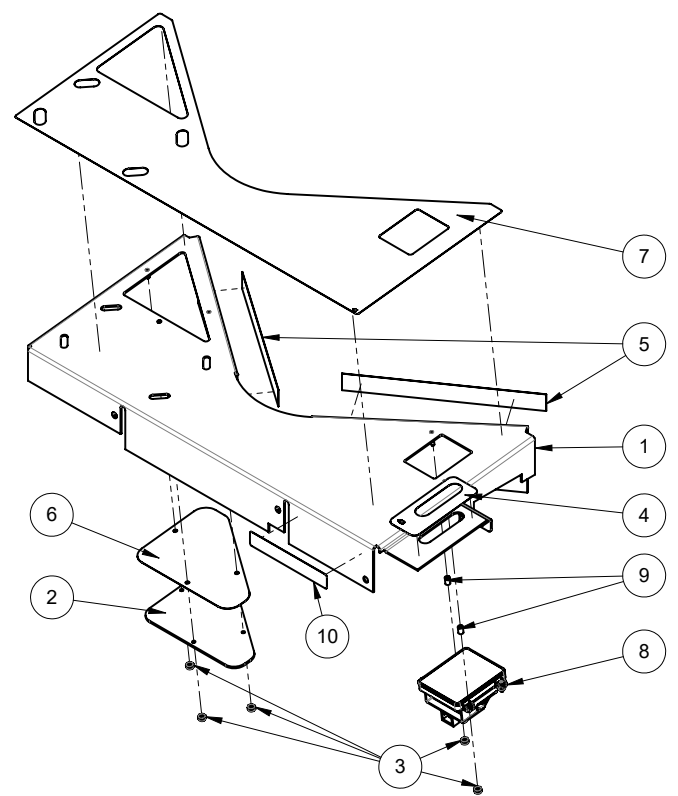
500-6543-02-ND



ID	Part Number	Description	Qty
1	090-5032-ND	FLIPPER COIL	1
2	180-5149-00	SWITCH, END-OF-STROKE	1
3	237-5975-00	SCREW, 8-32 X 3/8" HWH SWAGE ZN	2
4	237-5976-04	SCREW, 6-32 X 5/8" HWH SWAGE	2
5	237-6388-00	SCREW, 6-32 X 3/8", SLOTTED HWH, TYPE F	3
6	237-6389-00	SCREW, 10-32 X 3/8", SHC	2
7	244-5003-00	#10 LOCK WASHER, SPLIT	2
8	265-5035-00	EXTENSION SPRING	1
9	269-5002-00	SPRING WASHER	1
10	515-6308-01	COIL STOP ASSEMBLY	1
11	515-7203-00	PLUNGER / CRANK ASSEMBLY	1
12	535-7275-00	FLIPPER BASE PLATE, RIGHT	1
13	535-7354-00	SWITCH PLATE / SPRING RTN BRKT	1
14	535-7356-00	COIL BRACKET	1
15	545-5070-00	FLIPPER BUSHING	1
16	545-5388-00	COIL SLEEVE	1
17	545-5428-00	RUBBER BUMPER	1
18	515-5133-08-06	FLIPPER BAT (WHITE) AND SHAFT	2
19	545-5277-00	FLIPPER RUBBER	1

5.15 BOTTOM ARCH ASSEMBLY

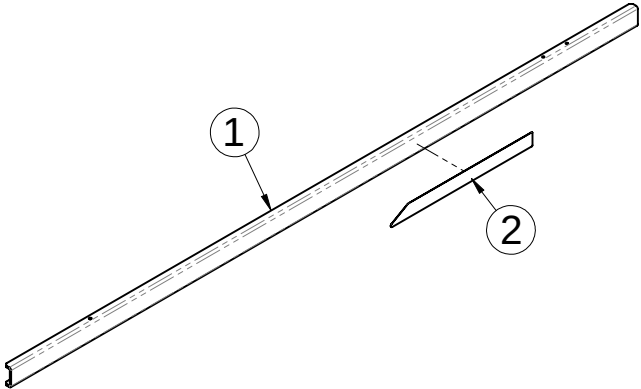
500-2505-Z6 (LE) & 500-2548-Z7 (PREMIUM)



ID	Part Number	Description	Qty
1	510-7805-00	BOTTOM ARCH, STEEL W/ SPADE BOLT, QR READY	1
2	830-8502-Z6	LEFT SIDE ARCH PLASTIC [LE]	1
	830-8502-Z7	LEFT SIDE ARCH PLASTIC [Premium]	1
3	240-5303-00	4-40 NYLON LOCK NUT	5
4	820-97Z6-02	METAL ARCH DECAL SET -02	1
5	545-5212-04	MYLAR PROTECT STRIP 7-5/8"	2
6	545-9923-00	COVER, SIGNATURE PROTECTOR [LE]	1
7	820-97Z6-01	METAL ARCH DECAL SET -01	1
8	509-2020-00	QR SCANNER M306 ASSEMBLY	1
9	254-5090-04	PLASTIC SPACER #4 SCREW, 3/16" OD - 9/32" LENGTH	2
10	820-5422-00	WARNING DECAL, BOTTOM ARCH, QR READER	1

5.16 LEFT SIDE RAIL ASSEMBLY

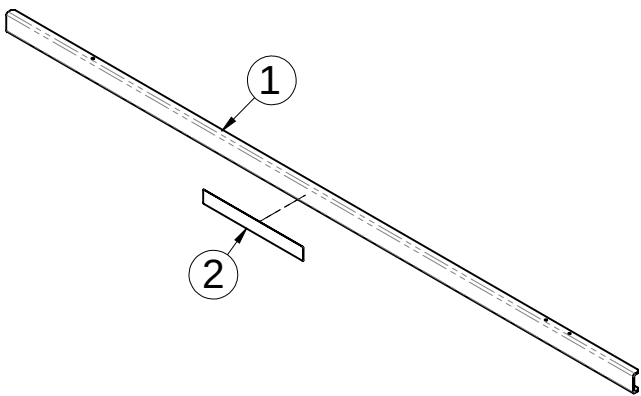
511-8567-00



ID	Part Number	Description	Qty
1	535-1362-00	STEEL RAIL - BLANK	1
2	820-6855-70	DECAL, KING KONG, -70	1

5.17 RIGHT SIDE RAIL ASSEMBLY

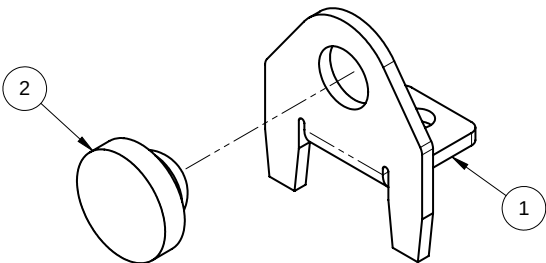
511-8568-00



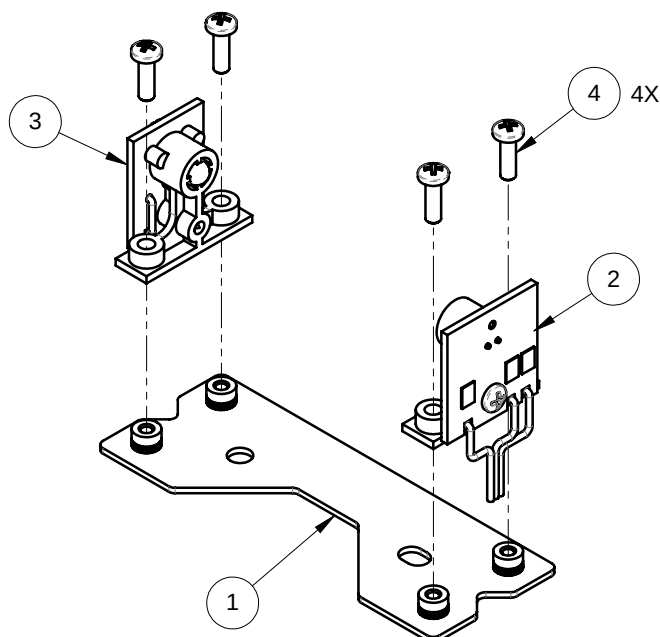
ID	Part Number	Description	Qty
1	535-1362-00	STEEL RAIL - BLANK	1
2	820-6855-71	DECAL, KING KONG, -71	1

5.18 BALL GUIDE 14 ASSEMBLY

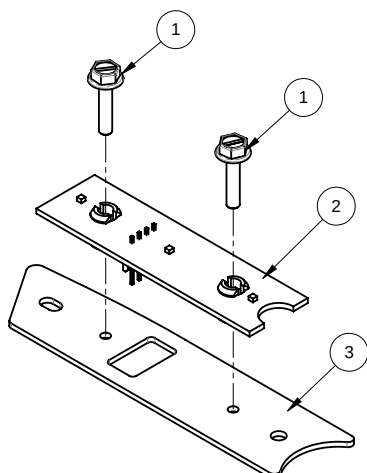
511-5758-14



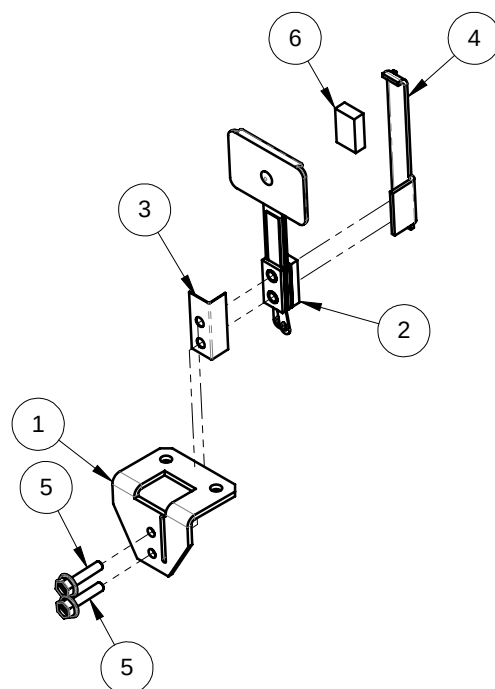
ID	Part Number	Description	Qty
1	535-2427-14	BALL GUIDE, AVENGERS PRO, -14	1
2	545-5105-00	RUBBER BUMPER	1

5.19 OPTO ASSEMBLY**511-8968-00**

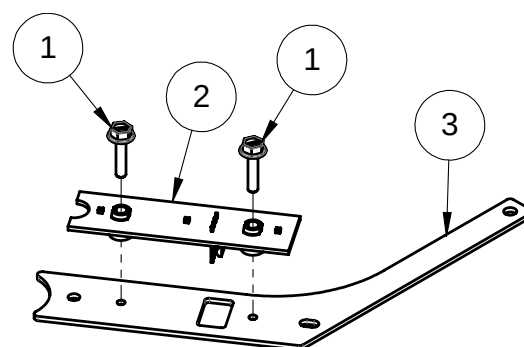
ID	Part Number	Description	Qty
1	535-5191-09	BRACKET, OPTOS, 2.875"	1
2	515-0215-01	LONG RANGE OPTO RECEIVER ASSEMBLY	1
3	515-0215-00	LONG RANGE OPTO EMITTER ASSEMBLY	1
4	237-5997-00	SCREW, 4-40 X 3/8" PPH MS BLACK	4

5.20 LEFT INLANE GUIDE ASSEMBLY**511-6005-01**

ID	Part Number	Description	Qty
1	237-5976-04	SCREW, 6-32 X 5/8" HWH SWAGE, SERRATED	2
2	520-8670-00	PCA INLANE 3W LED BOARD	1
3	535-3044-01	BALL GUIDE, KING KONG, -01	1

5.21 REVERSE MOUNT STAND-UP TARGET**500-7428-00**

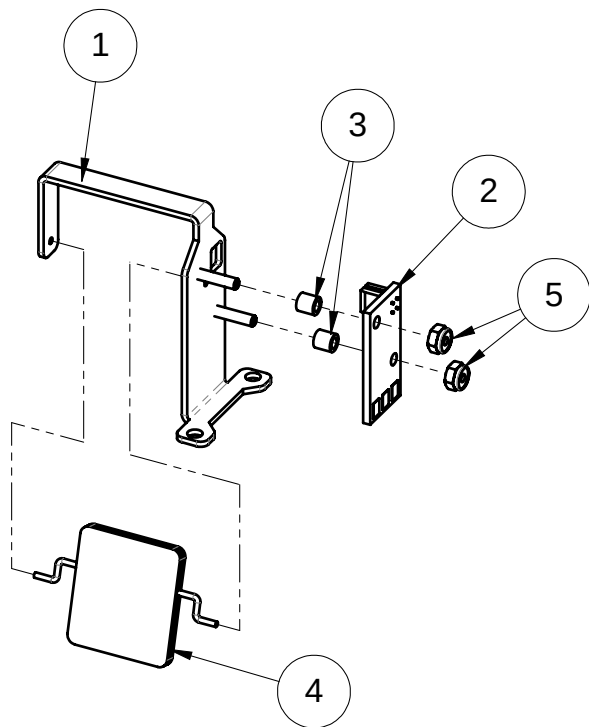
ID	Part Number	Description	Qty
1	535-5191-02	BRACKET, REVERSE MOUNT TARGET	1
2	515-9784-00-00	1" X 1-1/2" RECT. TARGET SWITCH - 2 LUG, ANTILOFT, BLACK	1
3	545-7874-00	FISCHE PAPER - S/U TARGET	1
4	535-9823-02	SWITCH BACK PLATE - LOCKING	1
5	237-5976-04	SCREW, 6-32 X 5/8" HWH SWAGE, SERRATED	2
6	626-5078-00	3/16" FOAM PAD	1

5.22 RIGHT INLANE GUIDE ASSEMBLY**511-6005-2**

ID	Part Number	Description	Qty
1	237-5976-04	SCREW, 6-32 X 5/8" HWH SWAGE, SERRATED	2
2	520-8670-00	PCA INLANE 3W LED BOARD	1
3	535-3044-02	BALL GUIDE, KING KONG, -02	1

5.23 REFLECTIVE SPINNER ASSEMBLY

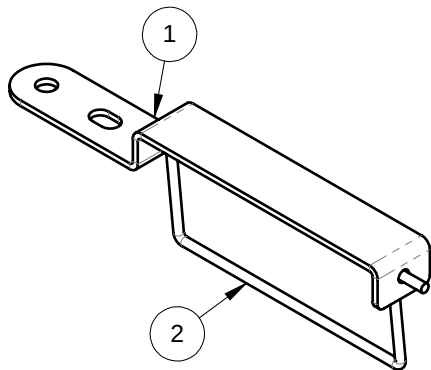
511-3044-00



ID	Part Number	Description	Qty
1	515-2456-00	BRACKET, SPINNER, REFLECTIVE OPTO	1
2	511-2785-01	SPINNER OPTO W/ CABLE	1
3	254-5090-01	PLASTIC SPACER #4 SCREW, 3/16" OD - 3/16" LENGTH	2
4	515-2326-00	SPINNER TARGET, REFLECTIVE	1
5	240-5303-00	4-40 NYLON LOCK NUT	2

5.24 INLANE GATE ASSEMBLY

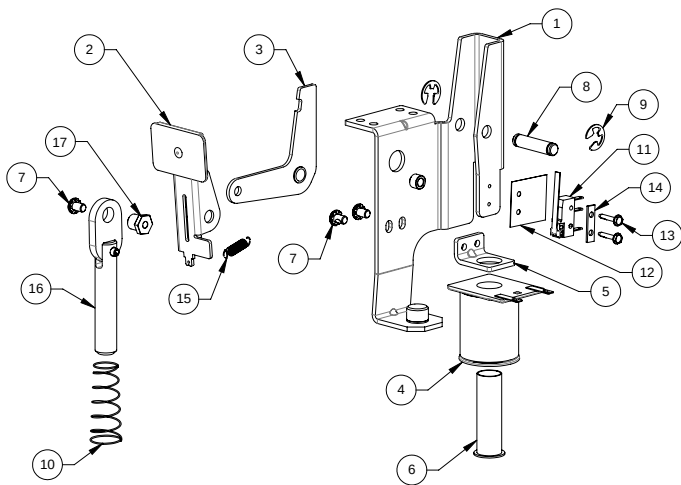
511-5451-00



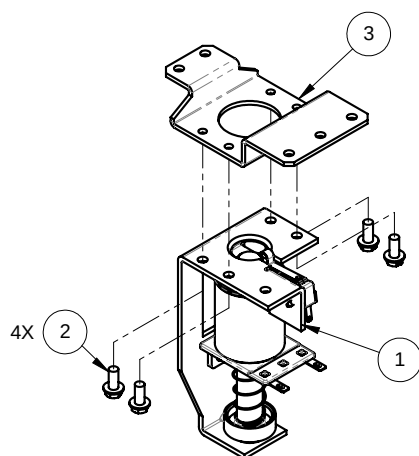
ID	Part Number	Description	Qty
1	535-5191-01	BRACKET, INLANE GATE, KING KONG	1
2	535-5192-01	WIRE, ONE WAY GATE, INLANE, LEFT	1

5.25 KICK TARGET ASSEMBLY

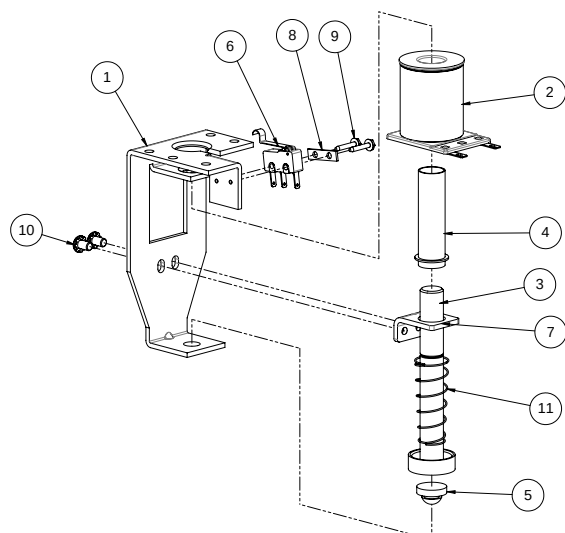
500-1198-01



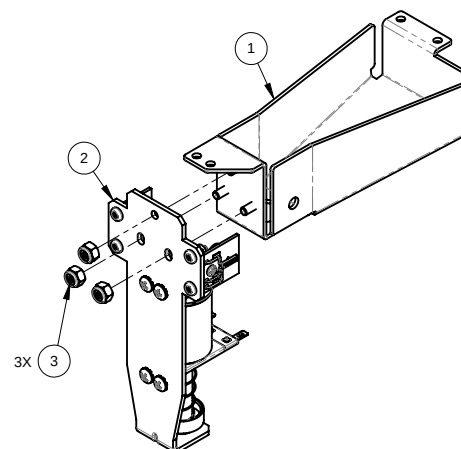
ID	Part Number	Description	Qty
1	515-1080-00	KICK TARGET MAIN BRACKET ASSEMBLY	1
2	515-1082-01	KICK TARGET ARM ASSEMBLY 1.50 BLACK	1
3	515-1081-00	KICK TARGET ARM ASSEMBLY	1
4	090-5036-ND	COIL, 24-940, NO DIODE	1
5	535-5203-03	COIL RETAINING BRACKET	1
6	545-5031-00	COIL SLEEVE	1
7	232-5300-00P	SCREW, 8-32 X 1/4" PPH SEMS, PATCH	3
8	530-7865-08	PIVOT PIN-.250" DIA.	1
9	270-5002-00	RETAINING RING - 1/4"	2
10	266-5020-00	COMPRESSION SPRING - CONICAL	1
11	180-5010-04	MICRO-SWITCH	1
12	545-6268-00	FISCHE PAPER	1
13	237-5937-02P	SCREW, 2-56 X 1/2" HWH MS, PATCH	2
14	535-6539-00	SWITCH BODY PROTECT PLATE	1
15	265-5090-00	EXT SPRING SS 0.188 OPEN HOOKS X 0.75 INSIDE LG	1
16	515-6304-03	PLUNGER / LINK ASSEMBLY	1
17	530-7834-00	PIN: KICKER ARM, AUTO-PLUNGER	1

5.26 KONG CAVE VUK W/ SPACER**500-7429-00**

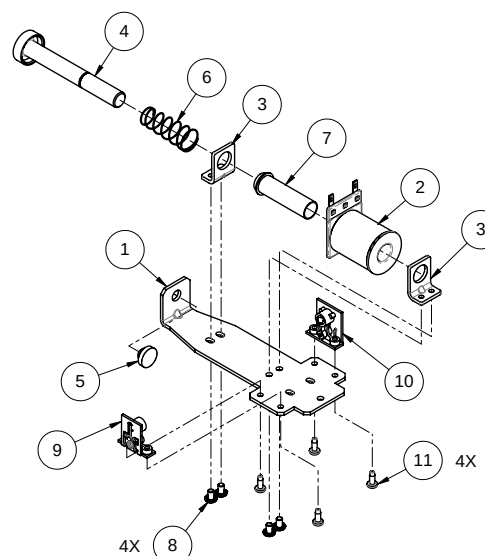
ID	Part Number	Description	Qty
1	500-6867-04	V.U.K. ASSEMBLY - 24-940 COIL - L.H.	1
2	237-5975-00	SCREW, 8-32 X 3/8" HWH SWAGE ZN	4
3	535-4157-00	BRACKET, VUK, KONG CAVE	1

5.27 VUK, L. H.**500-6867-04**

ID	Part Number	Description	Qty
1	535-9590-02	VUK BRACKET - L.H. - NO ACTUATOR	1
2	090-5036-ND	COIL, 24-940, NO DIODE	1
3	515-7309-00	PLUNGER ASSEMBLY	1
4	545-5076-01	COIL SLEEVE	1
5	545-5105-00	RUBBER BUMPER	1
6	180-5209-00	SUB MINIATURE SWITCH - SIM. ROLLER	1
7	535-5203-03	COIL RETAINING BRACKET	1
8	535-6539-00	SWITCH BODY PROTECT PLATE	1
9	237-5937-02	SCREW, 2-56 X 1/2" HWH MS	2
10	232-5300-00	SCREW, 8-32 X 1/4" PPH SEMS	2
11	266-5020-00	COMPRESSION SPRING-CONICAL	1

5.28 GONG SUBWAY VUK ASSEMBLY**500-2962-00**

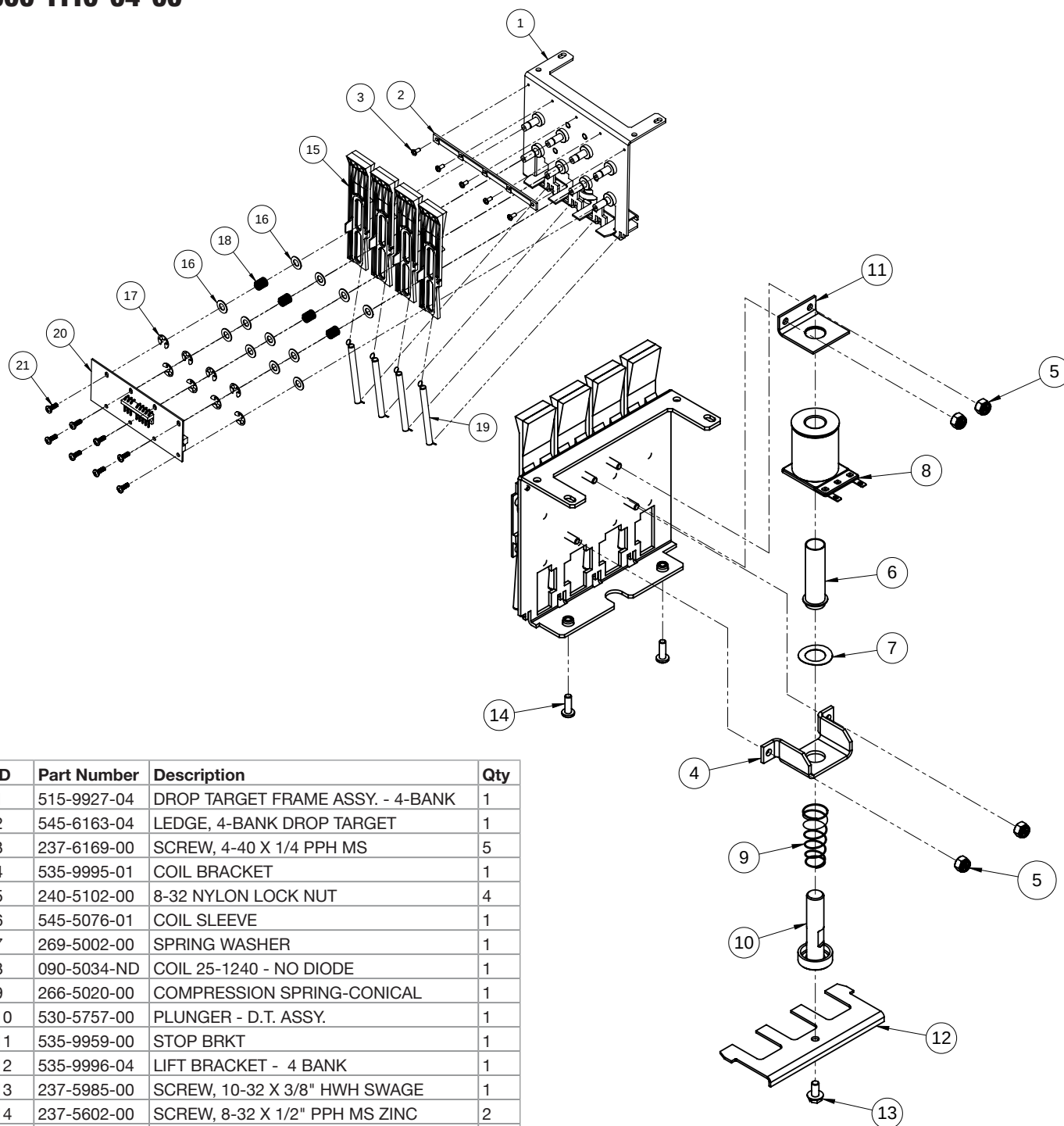
ID	Part Number	Description	Qty
1	535-7945-00	SUBWAY, GONG VUK	1
2	511-5793-00	SUBWAY VUK ASM	1
3	240-5102-00	8-32 NYLON LOCK NUT	3

5.29 SUBWAY VUK ASSEMBLY**511-5793-00**

ID	Part Number	Description	Qty
1	535-2563-00	BRACKET, BACKPANEL, VUK	1
2	090-5001-ND	COIL, 23-800, NO DIODE	1
3	535-5203-03	COIL RETAINING BRACKET	2
4	515-7309-00	PLUNGER ASSEMBLY	1
5	545-5105-00	RUBBER BUMPER	1
6	266-5020-00	COMPRESSION SPRING-CONICAL	1
7	545-5076-01	COIL SLEEVE	1
8	232-5300-00	SCREW, 8-32 X 1/4" PPH SEMS	4
9	515-0215-00	LONG RANGE OPTO EMITTER ASSEMBLY	1
10	515-0215-01	LONG RANGE OPTO RECEIVER ASSEMBLY	1
11	237-5880-00	SCREW, #6 X 3/8 PPH T-25	4

5.30 DROP TARGET ASSEMBLY, 4-BANK

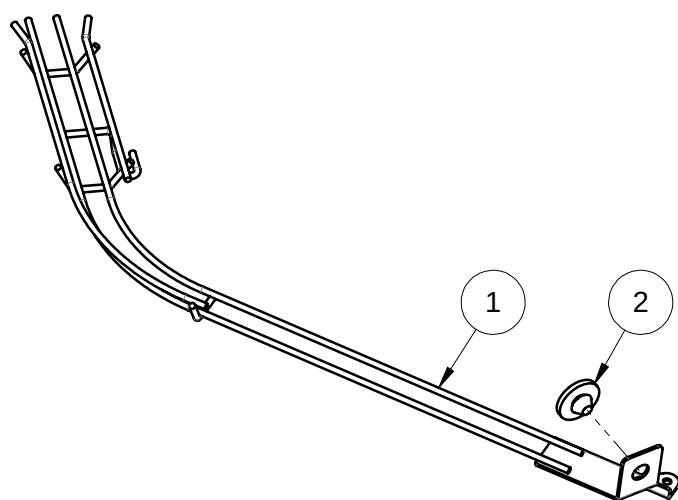
500-1110-04-00



ID	Part Number	Description	Qty
1	515-9927-04	DROP TARGET FRAME ASSY. - 4-BANK	1
2	545-6163-04	LEDGE, 4-BANK DROP TARGET	1
3	237-6169-00	SCREW, 4-40 X 1/4 PPH MS	5
4	535-9995-01	COIL BRACKET	1
5	240-5102-00	8-32 NYLON LOCK NUT	4
6	545-5076-01	COIL SLEEVE	1
7	269-5002-00	SPRING WASHER	1
8	090-5034-ND	COIL 25-1240 - NO DIODE	1
9	266-5020-00	COMPRESSION SPRING-CONICAL	1
10	530-5757-00	PLUNGER - D.T. ASSY.	1
11	535-9959-00	STOP BRKT	1
12	535-9996-04	LIFT BRACKET - 4 BANK	1
13	237-5985-00	SCREW, 10-32 X 3/8" HWH SWAGE	1
14	237-5602-00	SCREW, 8-32 X 1/2" PPH MS ZINC	2
15	545-6305-00	TARGET - ROLLOVER	4
16	242-5091-00	WASHER, 1/2 X 17/64 X .03 - DT	12
17	270-5002-00	RETAINING RING - 1/4"	8
18	266-5089-00	SPRING COMPRESSION - DT	4
19	265-5003-02	TARGET RESET SPRING	4
20	520-5252-14	OPTO PCB, RT ANG CONN, 4-BANK DT	1
21	237-5501-00	SCREW, 6-32 X 3/8" PPH MS ZINC	8

5.31 LEFT WIRE RAMP ASSEMBLY

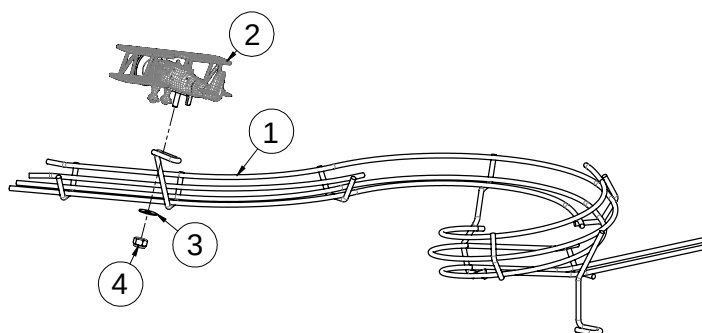
511-6908-00



ID	Part Number	Description	Qty
1	515-7882-00	WIRE RAMP, KING KONG, LEFT	1
2	545-5428-00	RUBBER BUMPER	1

5.32 BIPLANE WIRE RAMP ASSEMBLY

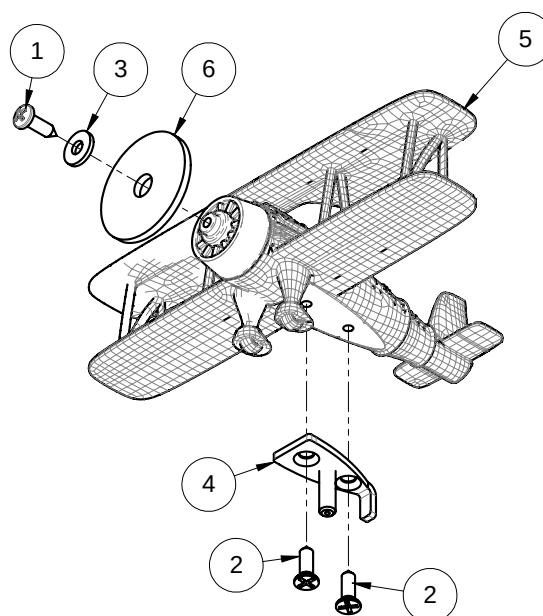
511-9709-00



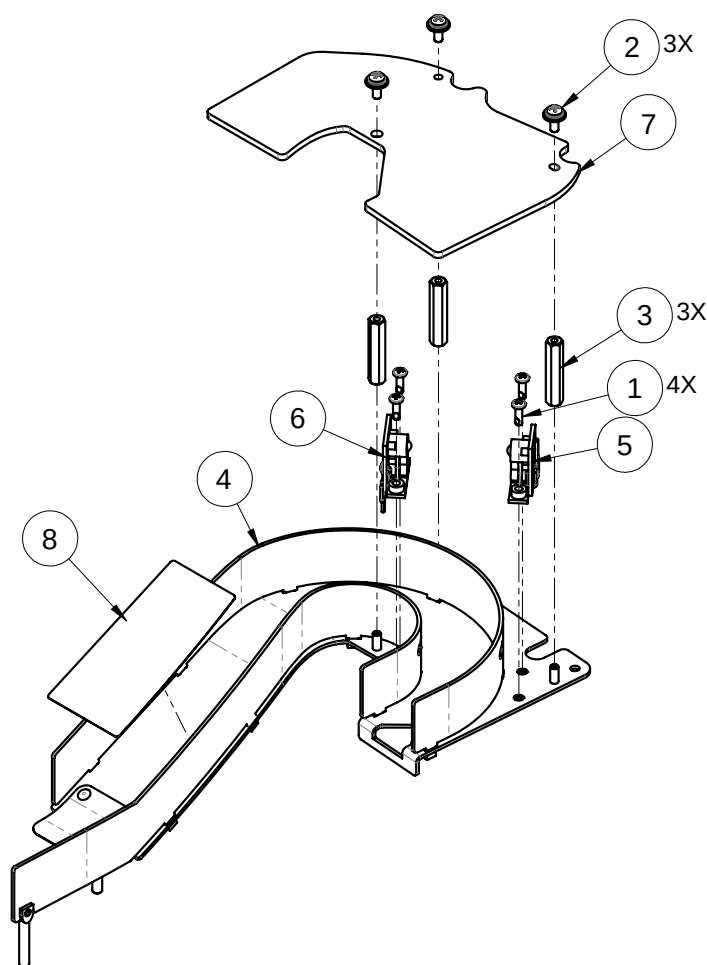
ID	Part Number	Description	Qty
1	515-7881-00	WIRE RAMP, KING KONG, BIPLANE	1
2	511-6909-00	ASM, BIPLANE, KING KONG	1
3	242-5015-00	#8 WASHER - .170 ID X 1/2 OD X .042	1
4	240-5102-00	8-32 NYLON LOCK NUT	1

5.33 BIPLANE TOY ASSEMBLY

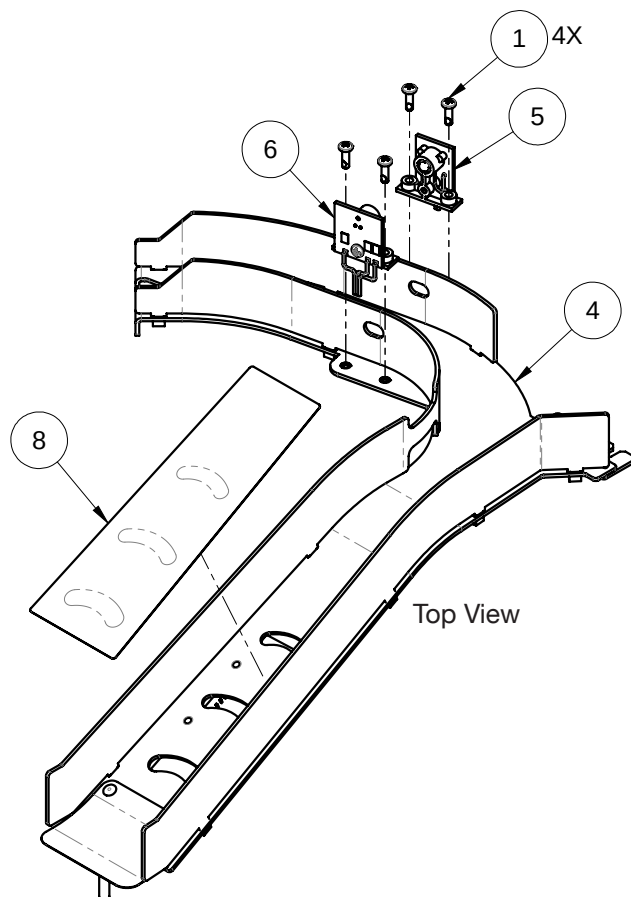
511-6909-00



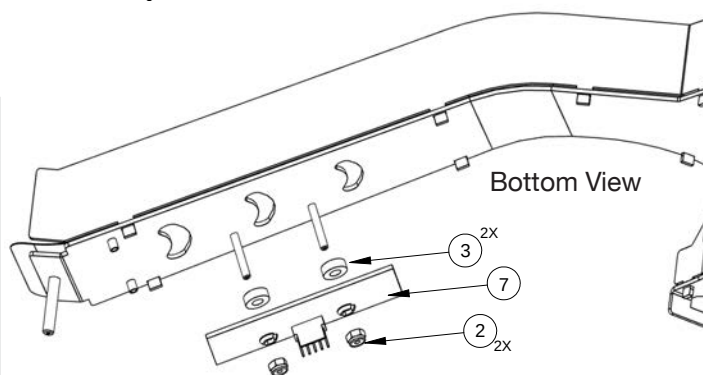
ID	Part Number	Description	Qty
1	237-5815-00B	SCREW, #4 X 3/8" PPH AB	1
2	237-5830-00	SCREW, #4 X 3/8" PFH AB	2
3	242-5002-01	#4 FLAT WASHER - 5/16" O.D. -BLACK	1
4	535-5191-10	BRACKET, BIPLANE MOUNT	1
5	545-7949-00	TOY, BIPLANE, DECORATED	1
6	830-6964-69	PLASTIC, KING KONG, -69	1

5.34 LEFT RAMP ASSEMBLY**511-5425-01**

ID	Part Number	Description	Qty
1	237-5997-00P	SCREW, 4-40 X 3/8" PPH MS BLACK, PATCH	4
2	237-6378-00P	#6-32 X 3/8 PAN PHILLIPS w/DOUBLE SEMS, PATCH	3
3	254-5008-11	HEX SPACER - 1 1/4 "	3
4	510-7968-01	RIVETED RAMP, KING KONG, LEFT	1
5	515-0215-00	LONG RANGE OPTO EMITTER	1
6	515-0215-01	LONG RANGE OPTO RECEIVER	1
7	546-7965-01	RAMP COVER, KING KONG, LEFT	1
8	820-6855-83	DECAL, KING KONG, -83	1

5.35 CENTER RAMP ASSEMBLY**511-5425-02**

Top View

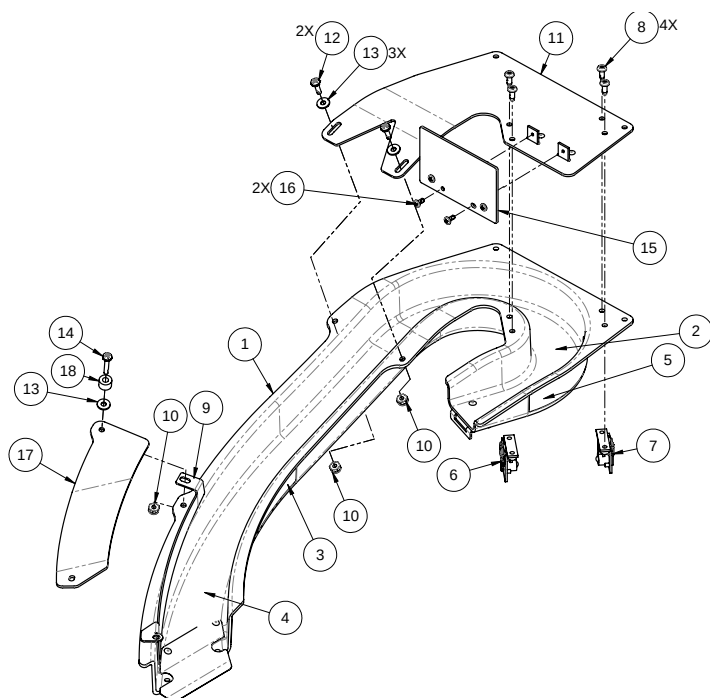


Bottom View

ID	Part Number	Description	Qty
1	237-5997-00P	SCREW, 4-40 X 3/8" PPH MS BLACK, PATCH	4
2	240-5303-00	4-40 NYLON LOCK NUT	2
3	254-5000-19	NYLON SPACER - BLACK - 3/8 OD X .175 ID X 1/8"	2
4	510-7968-02	RIVETED RAMP, KING KONG, CENTER	1
5	515-0215-00	LONG RANGE OPTO EMITTER PCB	1
6	515-0215-01	LONG RANGE OPTO RECEIVER PCB	1
7	520-7011-00	LAMP PCB, 3-LED	1
8	820-6855-80	DECAL, KING KONG, -80	1

5.36 BIPLANE RAMP ASSEMBLY

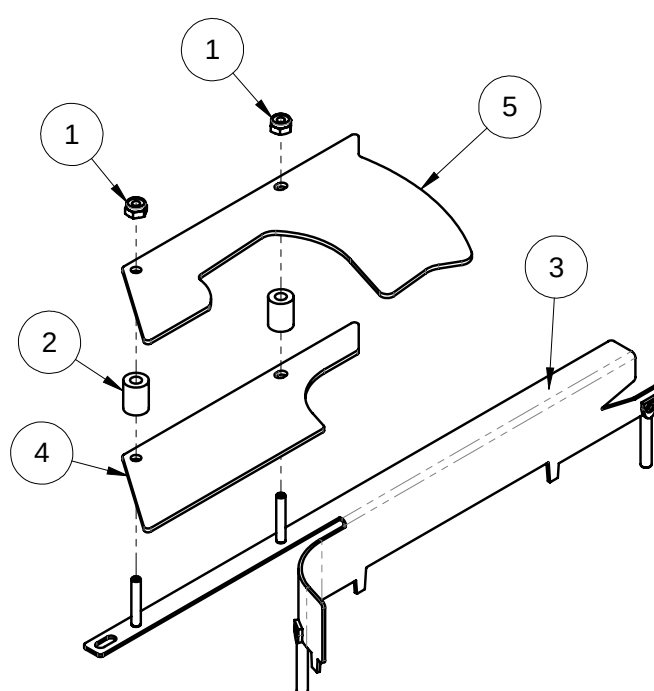
511-5425-04



ID	Part Number	Description	Qty
1	510-7968-04	RIVETED RAMP ASM, KING KONG, BIPLANE	1
2	820-9310-01	RAMP DECAL, KING KONG, BIPLANE -01	1
3	820-9310-02	RAMP DECAL, KING KONG, BIPLANE -02	1
4	820-9310-03	RAMP DECAL, KING KONG, BIPLANE -03	1
5	820-9310-04	RAMP DECAL, KING KONG, BIPLANE -04	1
6	515-0215-01	LONG RANGE OPTO RECEIVER ASSEMBLY	1
7	515-0215-00	LONG RANGE OPTO EMITTER ASSEMBLY	1
8	237-5880-00	SCREW, #6 X 3/8 PPH T-25	4
9	535-5191-04	RAMP PROTECTOR, KING KONG, BIPLANE	1
10	240-5005-00	6-32 NYLON STOP NUT	3
11	510-5829-90	RIVETED PLASTIC ASM, KING KONG, -90	1
12	232-5202-00P	SCREW, 6-32 X 1/2" PPH MS SEMS, PATCH	2
13	242-5001-00	#6 WASHER	3
14	232-5204-00P	SCREW, 6-32 X 3/4" PPH SEMS, PATCH	1
15	511-5476-84	PLASTIC ASM, KING KONG LE, -84	1
16	237-6331-00P	SCREW, 4-40 X 1/4" PPH MS BLACK, PATCH	2
17	830-6964-38	PLASTIC, KING KONG, -38	1
18	254-5000-09	NYLON SPACER - BLACK - 3/8 OD X .175 ID X 1/4"	1

5.37 BALL GUIDE -05 ASSEMBLY

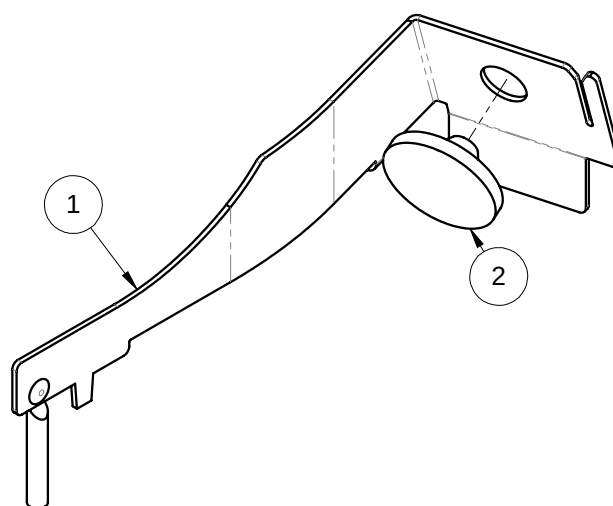
511-5475-05



ID	Part Number	Description	Qty
1	240-5005-00	6-32 NYLON STOP NUT	2
2	254-5000-01	NYLON SPACER - BLACK - 3/8 OD X .175 ID X 1/2"	2
3	535-3044-05	BALL GUIDE, KING KONG, -05	1
4	830-6964-05	PLASTIC, KING KONG, -05	1
5	830-6964-35	PLASTIC, KING KONG, -35	1

5.38 BALL GUIDE -12 ASSEMBLY

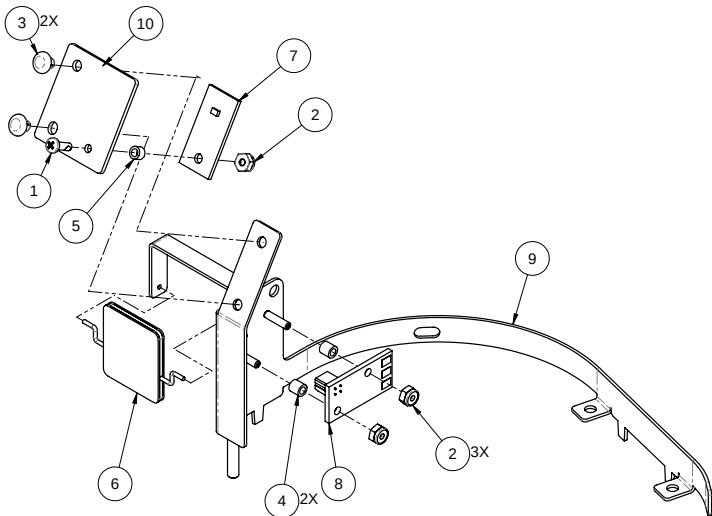
511-5475-12



ID	Part Number	Description	Qty
1	535-3044-12	BALL GUIDE, KING KONG, -12	1
2	545-5428-00	RUBBER BUMPER	1

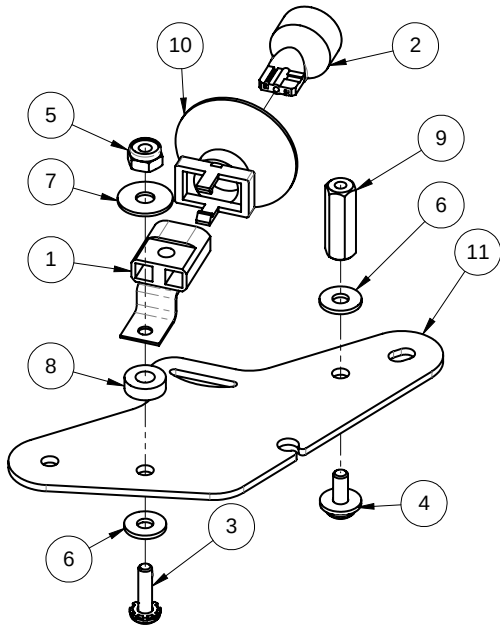
5.39 BALL GUIDE -16 ASSEMBLY
(LEFT ORBIT SPINNER)

511-5475-16

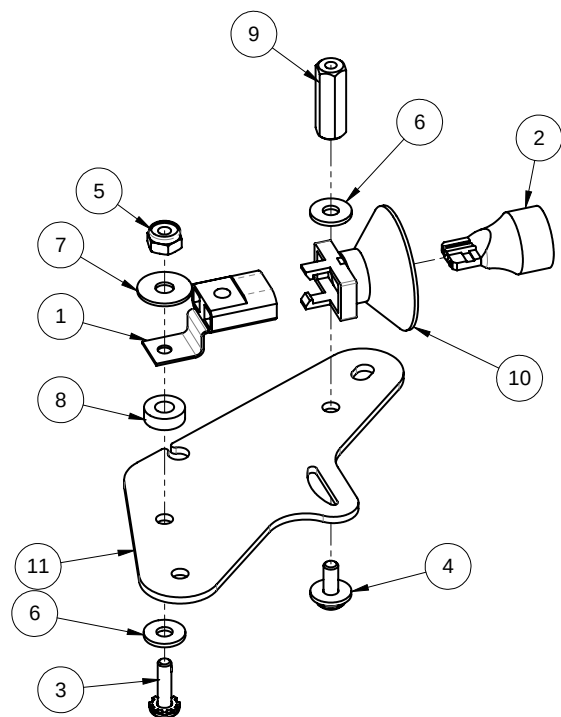


ID	Part Number	Description	Qty
1	237-5816-01P	SCREW 4-40 X 1/2" PPH MS BLACK, PATCH	1
2	240-5303-00	4-40 NYLON LOCK NUT	3
3	249-5034-00	PUSH RIVET, .161 x .100-.140 GRIP	2
4	254-5090-01	PLASTIC SPACER #4 SCREW, 3/16" OD - 3/16" LENGTH	2
5	254-5090-03	PLASTIC SPACER #4 SCREW, 3/16" OD - 1/8" LENGTH	1
6	515-2326-00	SPINNER TARGET, REFLECTIVE OPTO	1
7	520-5307-00	SINGLE LED PCB	1
8	520-8541-00	PCA SPINNER REFLECTIVE OPTIC	1
9	535-3044-16	BALL GUIDE, KING KONG, -16	1
10	830-6964-81	PLASTIC, KING KONG, -81	1

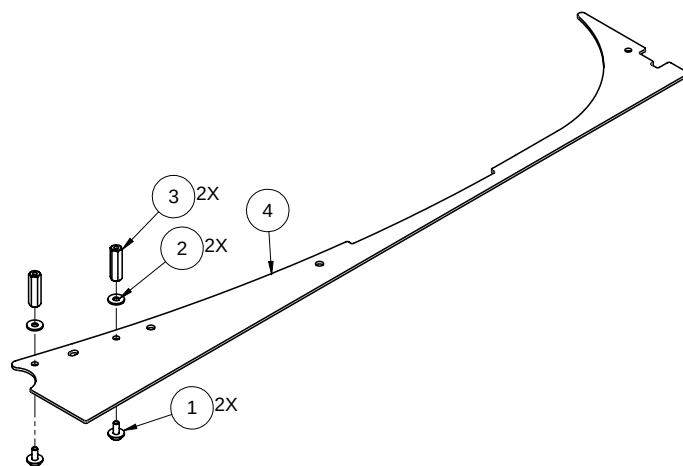
5.40 PLASTIC 03 ASSEMBLY
511-5476-03



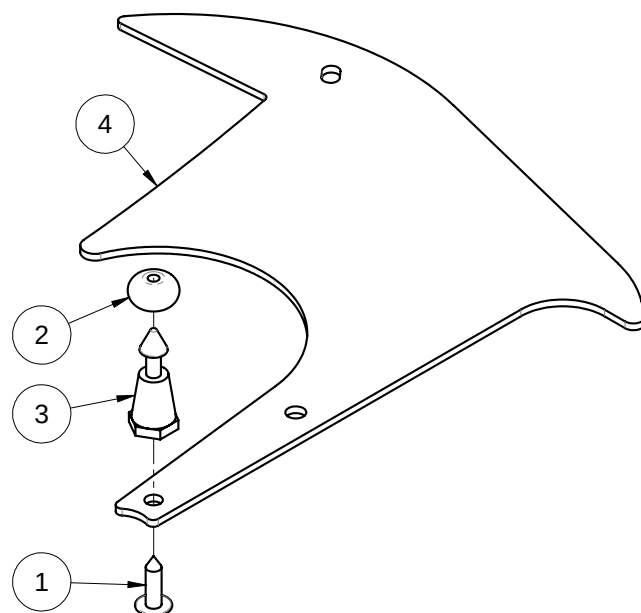
ID	Part Number	Description	Qty
1	077-5026-01	SOCKET, L/D WEDGE BASE BLACK	1
2	113-5032-08	8 ELEMENT FLAT W-BASE LED 5V AC - WHITE	1
3	232-5202-00P	SCREW, 6-32 X 1/2" PPH MS SEMS, PATCH	1
4	237-6378-00P	#6-32 X 3/8 PAN PHILLIPS w/DOUBLE SEMS, PATCH	1
5	240-5005-00	6-32 NYLON STOP NUT	1
6	242-5001-00	#6 WASHER	2
7	242-5015-00	#8 WASHER - .170 ID X 1/2 OD X .042	1
8	254-5000-19	NYLON SPACER - BLACK - 3/8 OD X .175 ID X 1/8"	1
9	254-5008-04	HEX SPACER - 3/4 "	1
10	545-5409-01	REFLECTOR	1
11	830-6964-03	PLASTIC, KING KONG, -03	1

5.41 PLASTIC 04 ASSEMBLY**511-5476-04**

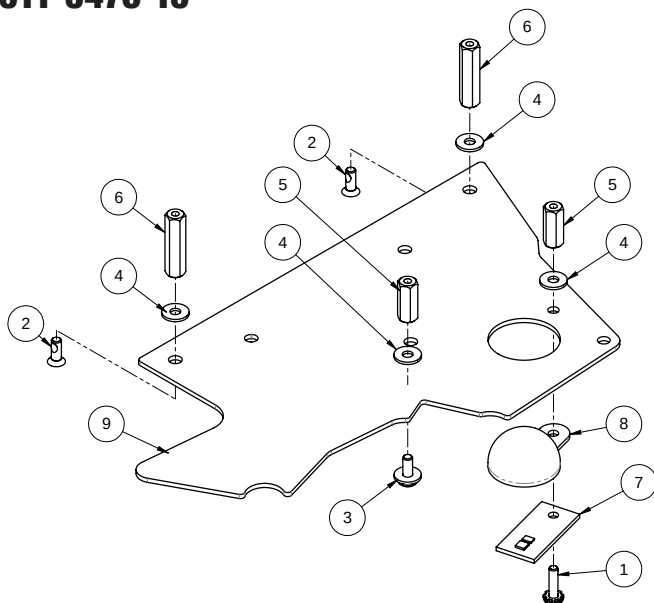
ID	Part Number	Description	Qty
1	077-5026-01	SOCKET, L/D WEDGE BASE BLACK	1
2	113-5032-08	8 ELEMENT FLAT W-BASE LED 5V AC - WHITE	1
3	232-5202-00P	SCREW, 6-32 X 1/2" PPH MS SEMS, PATCH	1
4	237-6378-00P	#6-32 X 3/8 PAN PHILLIPS w/DOUBLE SEMS, PATCH	1
5	240-5005-00	6-32 NYLON STOP NUT	1
6	242-5001-00	#6 WASHER	2
7	242-5015-00	#8 WASHER - .170 ID X 1/2 OD X .042	1
8	254-5000-19	NYLON SPACER - BLACK - 3/8 OD X .175 ID X 1/8"	1
9	254-5008-04	HEX SPACER - 3/4 "	1
10	545-5409-01	REFLECTOR	1
11	830-6964-04	PLASTIC, KING KONG, -04	1

5.42 PLASTIC 08 ASSEMBLY**511-5476-08**

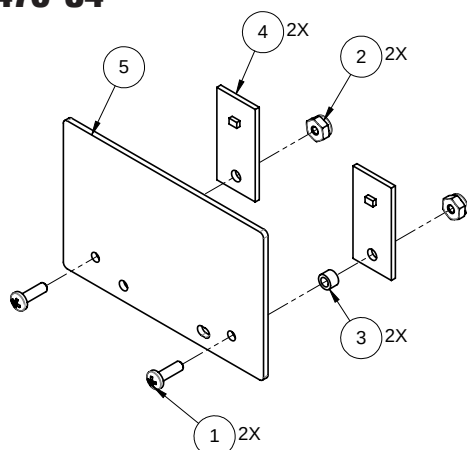
ID	Part Number	Description	Qty
1	237-6378-00P	#6-32 X 3/8 PAN PHILLIPS w/DOUBLE SEMS, PATCH	2
2	242-5001-00	#6 WASHER	2
3	254-5008-05	HEX SPACER - 7/8 "	2
4	830-6964-08	PLASTIC, KING KONG, -08	1

5.43 PLASTIC 14 ASSEMBLY**511-5476-14**

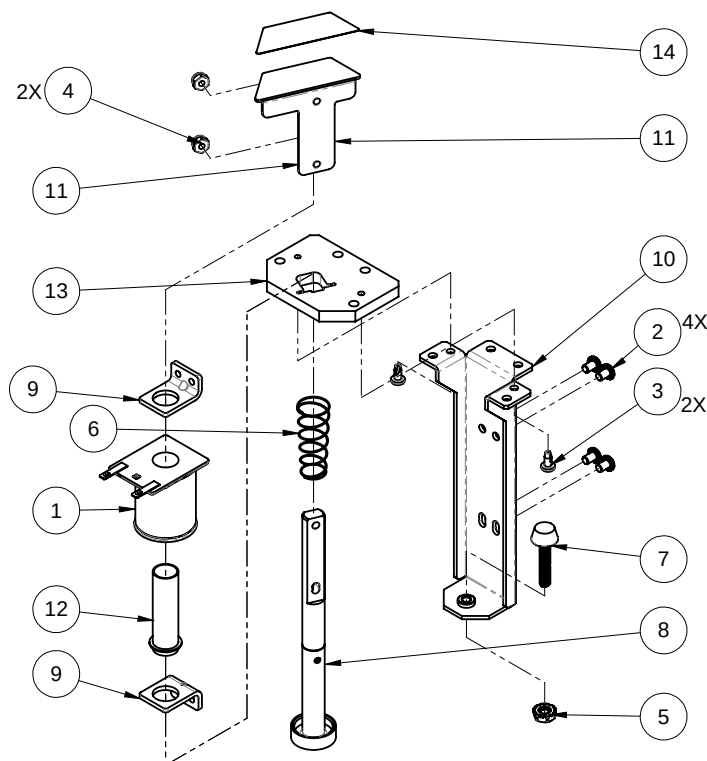
ID	Part Number	Description	Qty
1	237-5809-00	SCREW, #6 X 1/2" PTH A	1
2	545-5348-17	7/16 O.D. RUBBER RING - BLACK	1
3	550-5052-01	MINI POST - CLEAR	1
4	830-6964-14	PLASTIC, KING KONG, -14	1

5.44 PLASTIC 15 ASSEMBLY**511-5476-15**

ID	Part Number	Description	Qty
1	232-5202-00P	SCREW, 6-32 X 1/2" PPH MS SEMS, PATCH	1
2	237-5871-00P	SCREW, 6-32 X 3/8" PFH 82° U/C ZINC, PATCH	2
3	237-6378-00P	#6-32 X 3/8 PAN PHILLIPS w/DOUBLE SEMS, PATCH	1
4	242-5001-00	#6 WASHER	4
5	254-5008-02	HEX SPACER - 5/8 "	2
6	254-5008-06	HEX SPACER - 1"	2
7	520-7000-00	SINGLE FLASH LED BOARD	1
8	550-5510-06	HAT - TRIMMED - YELLOW SB	1
9	830-6964-15	PLASTIC, KING KONG, -15	1

5.45 PLASTIC 84 ASSEMBLY**511-5476-84**

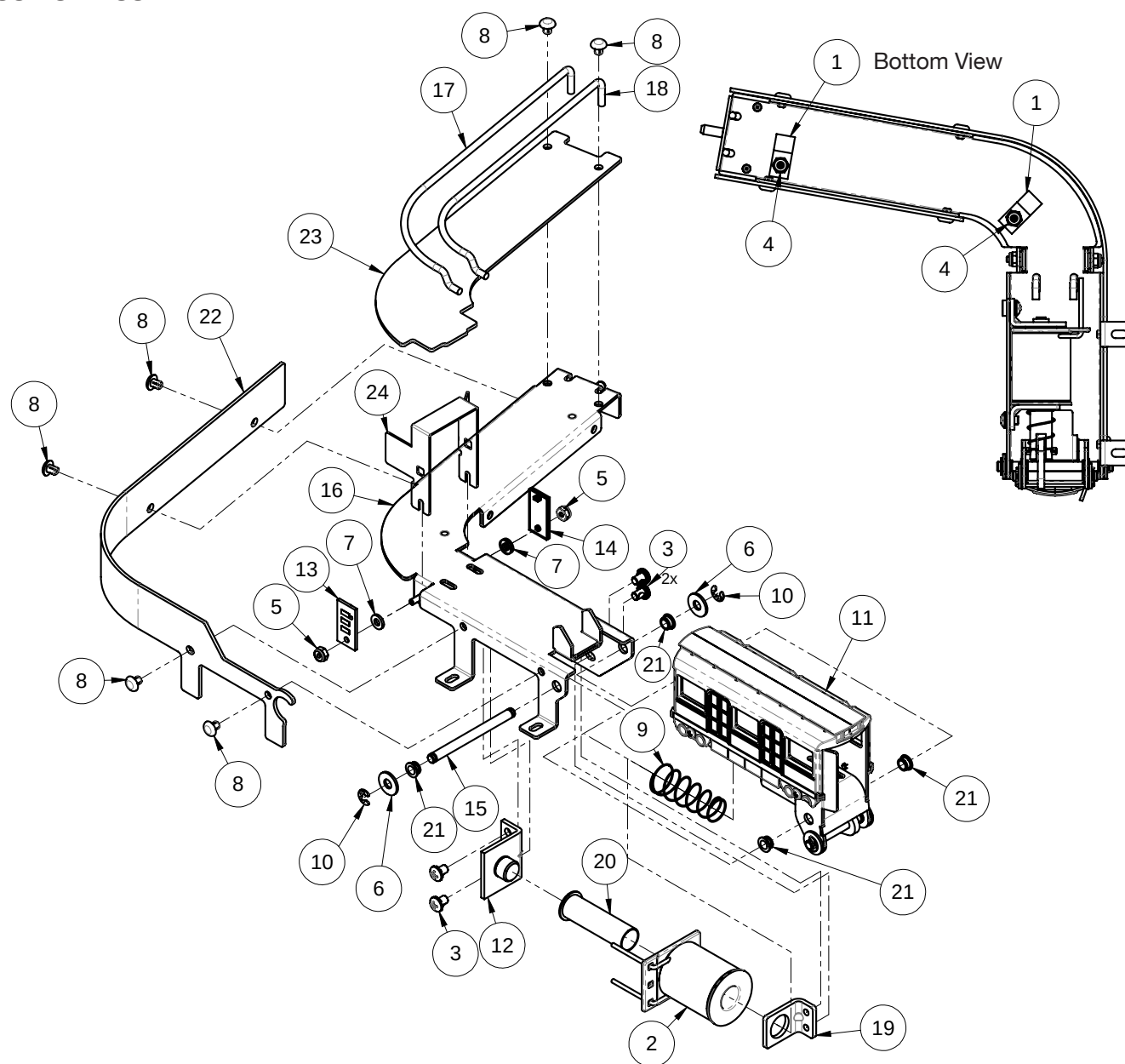
ID	Part Number	Description	Qty
1	237-5816-01P	SCREW 4-40 X 1/2" PPH MS BLACK, PATCH	2
2	240-5303-00	4-40 NYLON LOCK NUT	2
3	254-5090-03	PLASTIC SPACER #4 SCREW, 3/16" OD - 1/8" LENGTH	2
4	520-5307-00	SINGLE LED PCB	2
5	830-6964-84	PLASTIC, KING KONG, -84	1

5.46 RIVER DIVERTER ASSEMBLY**500-2961-00**

ID	Part Number	Description	Qty
1	090-5044-ND	COIL 26-1200 - NO DIODE	1
2	232-5300-00P	SCREW, 8-32 X 1/4" PPH SEMS, PATCH	4
3	237-5880-01	SCREW, #6 X 5/16 PPH T-25	2
4	240-5005-00	6-32 NYLON STOP NUT	2
5	240-5208-00	10-32 KEPS NUT	1
6	266-5020-00	COMPRESSION SPRING-CONICAL	1
7	280-5014-00	ADJUSTABLE BUMPER/STOP	1
8	515-9962-00	PLUNGER, POP UP BALL GUIDE	1
9	535-5203-03	COIL RETAINING BRACKET	2
10	535-7944-00	BRACKET, POP UP BALL GUIDE	1
11	535-7944-01	BALL GUIDE, POP UP BALL GUIDE, KING KONG	1
12	545-5076-01	COIL SLEEVE	1
13	546-7968-00	GUIDE BLOCK, RIVER DIVERTER	1
14	820-6855-79	DECAL, KING KONG, -79	1

5.47 TRAIN LOCK ASSEMBLY

500-1042-00



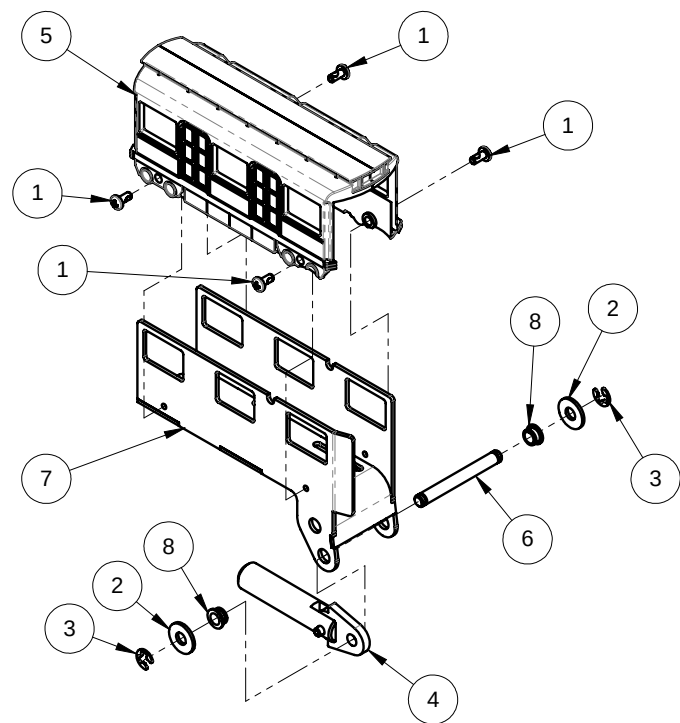
ID	Part Number	Description	Qty
1	040-5000-03	1/4" CABLE CLAMP	2
2	090-5088-00	COIL, 23-800, NO DIODE, LUGLESS	1
3	232-5300-00P	SCREW, 8-32 X 1/4" PPH SEMS, PATCH	4
4	240-5005-00	6-32 NYLON STOP NUT	2
5	240-5303-00	4-40 NYLON LOCK NUT	2
6	242-5010-00	#10 WASHER, .50 O.D. X .047 THK	2
7	242-5079-00	WASHER, .150 I.D. X .312 O.D. X .050 THICK	2
8	249-5034-00	PUSH RIVET, .161 x .100-.140 GRIP	6
9	266-5020-00	COMPRESSION SPRING-CONICAL	1
10	270-5001-00	RETAINING E-RING, 3/16" SHAFT OD	2
11	511-4043-01	ASM, TRAIN CAR CHUTE	1
12	515-2198-00	COIL STOP BRACKET ASSEMBLY	1

ID	Part Number	Description	Qty
13	520-8068-00	PCB, IR OPTO RECEIVER	1
14	520-8069-00	PCB, IR OPTO EMITTER	1
15	530-7812-20	PIVOT PIN-.188 DIA.	1
16	535-4154-00	BRACKET, TRAIN LOCK	1
17	535-4154-10	WIRE, TRAIN LOCK, LARGE	1
18	535-4154-11	WIRE, TRAIN LOCK, SMALL	1
19	535-5203-03	COIL RETAINING BRACKET	1
20	545-5031-00	COIL SLEEVE	1
21	545-5352-00	NYLINER, 3/16" SHAFT	4
22	830-6964-50	PLASTIC, KING KONG, -50	1
23	830-6964-52	PLASTIC, KING KONG, -52	1
24	535-4154-03	PROTECTOR, TRAIN OPTO	1



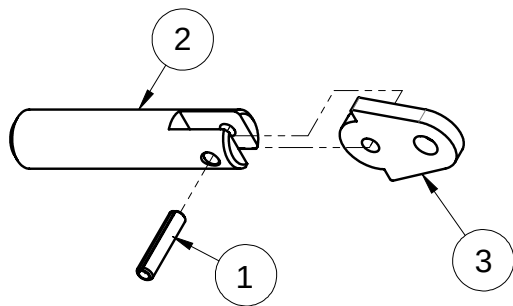
KING KONG:
MYTH OF TERROR ISLAND™
TM and © 2025 STERN PINBALL, INC.

5.48 TRAIN CAR CHUTE ASSEMBLY
511-4043-01



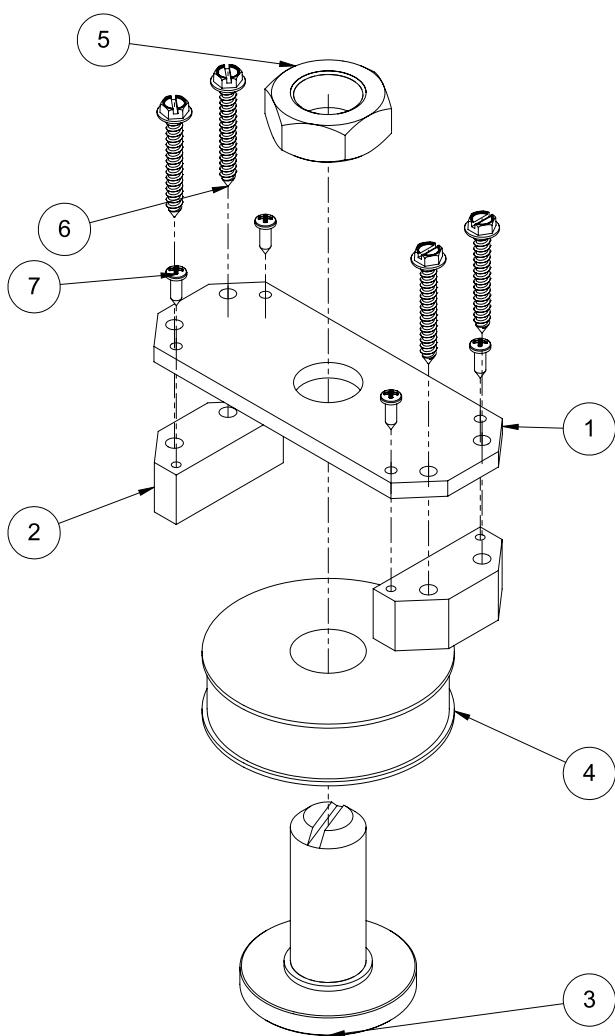
ID	Part Number	Description	Qty
1	237-6331-00P	SCREW, 4-40 X 1/4" PPH MS BLACK, PATCH	4
2	242-5010-00	#10 WASHER, .50 O.D. X .047 THK	2
3	270-5001-00	RETAINING E-RING, 3/16" SHAFT OD	2
4	511-0042-00	PLUNGER & LINK ASSEMBLY	1
5	515-5693-00	ASM, TRAIN, DECORATED	1
6	530-7812-18	PIVOT PIN-.188 DIA.	1
7	535-4154-01	CHUTE, TRAIN LOCK	1
8	545-5352-00	NYLINER, 3/16" SHAFT	2

5.49 PLUNGER & LINK ASSEMBLY
511-0042-00

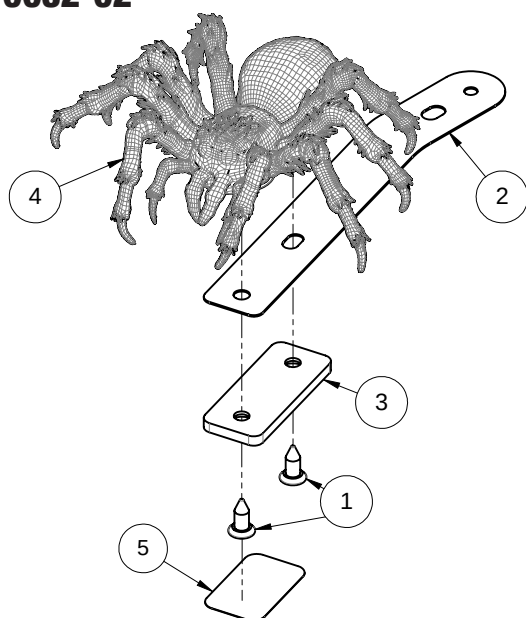


ID	Part Number	Description	Qty
1	251-5008-00	ROLL PIN, 1/8 X 5/8	1
2	530-5025-01	STEEL PLUNGER	1
3	546-7972-00	PLUNGER LINK, 3/16"	1

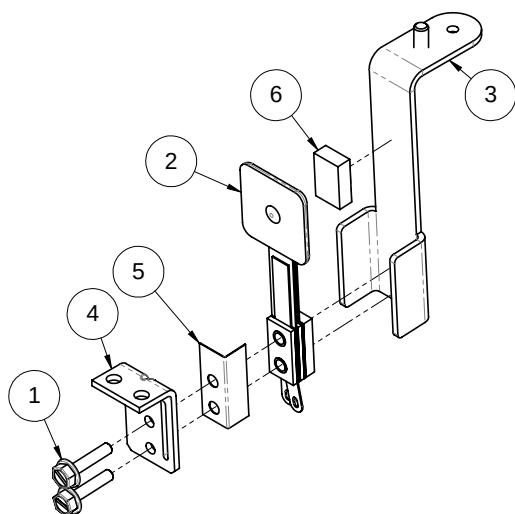
5.50 MAGNET ASSEMBLY (SPIDER PIT)
511-7596-01



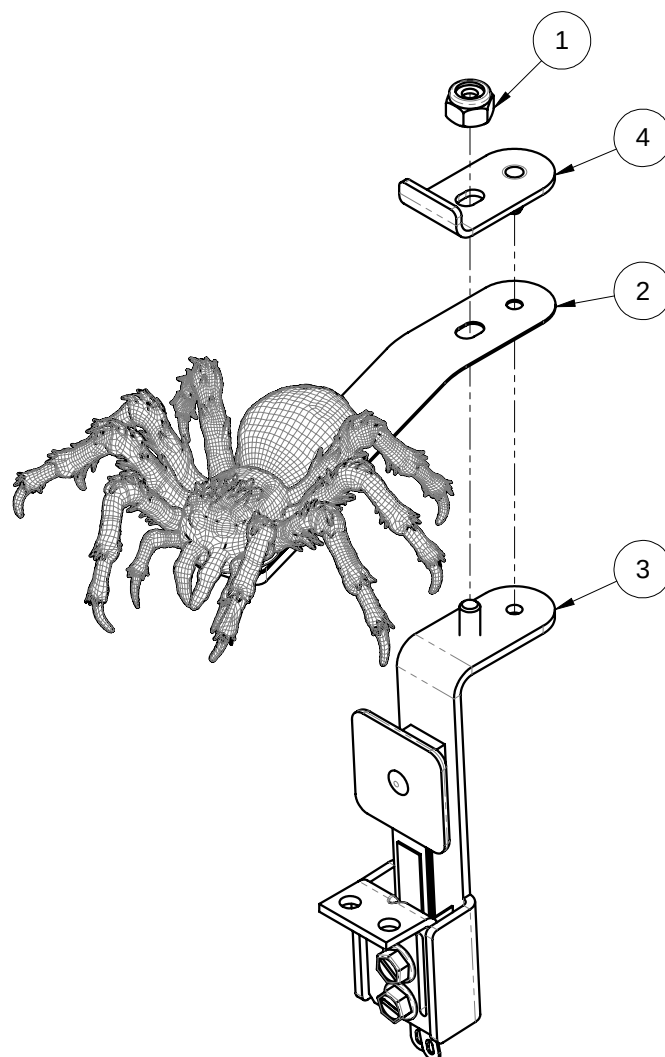
ID	Part Number	Description	Qty
1	535-1050-00	MAGNET MOUNTING PLATE	1
2	545-9781-00	MAGNET MOUNTING BLOCK	2
3	530-5320-07	MAGNET CORE W/ STAINLESS PROTECTOR	1
4	511-7505-00	MAGNET / CONNECTOR ASSY, 22-650	1
5	240-5315-00	3/4-16 HEX JAM NUT	1
6	234-5105-01	#8 x 1 1/4 HWH SLOTTED SERRATED AB ZINC	4
7	237-5815-00	SCREW, #4 X 3/8" PPH AB	4

5.51 SPIDER PIT, SPIDER SPRING**511-0032-02**

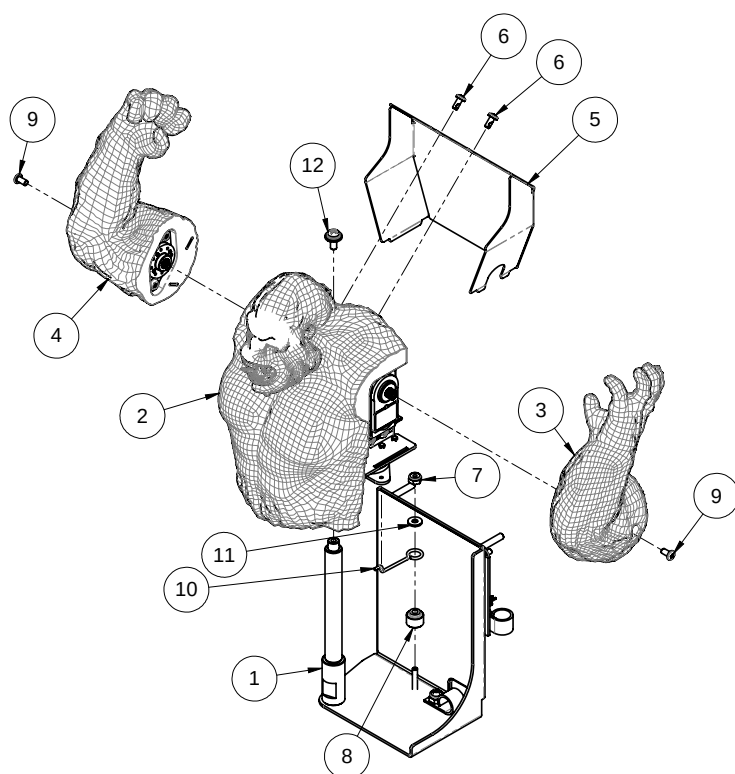
ID	Part Number	Description	Qty
1	237-5895-00	SCREW, #6 X 3/8" PFH UNDERCUT	2
2	535-3077-01	LEAF SPRING, SPIDER PIT	1
3	535-3077-03	SPIDER MAGNET PLATE	1
4	545-7950-00	TOY, SPIDER, DECORATED	1
5	820-8426-00	MYLAR PAD 1" X 5/8"	1

5.52 SPIDER TARGET ASSEMBLY**511-0032-01**

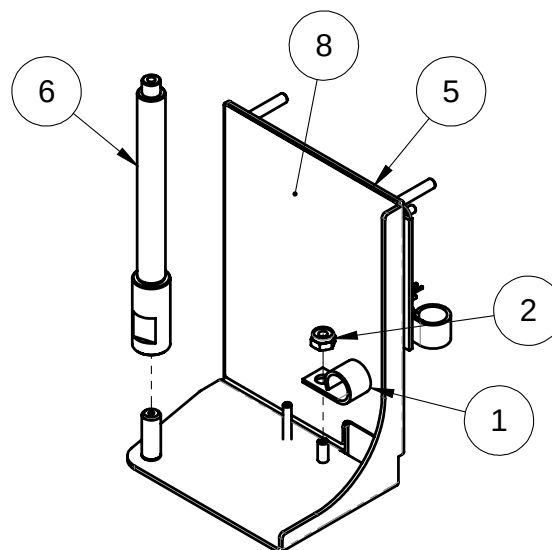
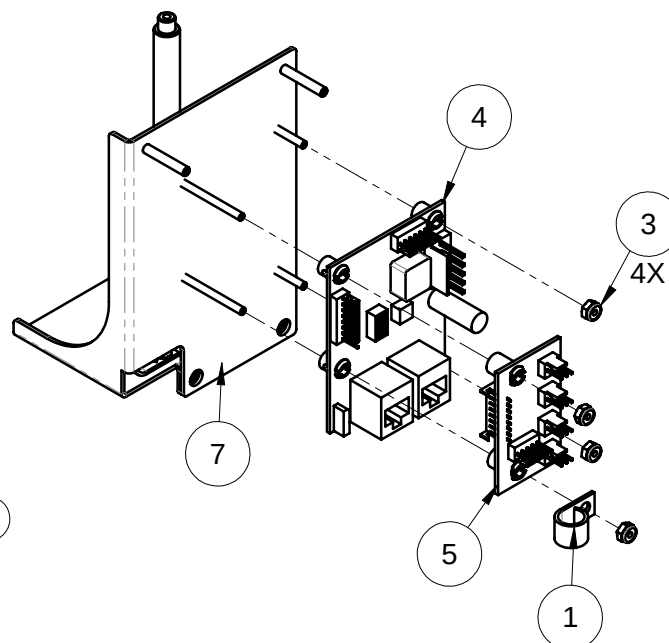
ID	Part Number	Description	Qty
1	237-5976-04	SCREW, 6-32 X 5/8" HWH SWAGE, SERRATED	2
2	515-9783-00-00	1" SQ. TARGET SWITCH - ANTILOFT - 2 LUG - BLACK	1
3	535-3077-00	BRACKET, SPIDER PIT, TARGET	1
4	535-6896-01	TARGET BRACKET - SLOTTED	1
5	545-7874-00	FISCHE PAPER - S/U TARGET	1
6	626-5078-00	3/16" FOAM PAD	1

5.53 SPIDER, FULLY ASSEMBLED

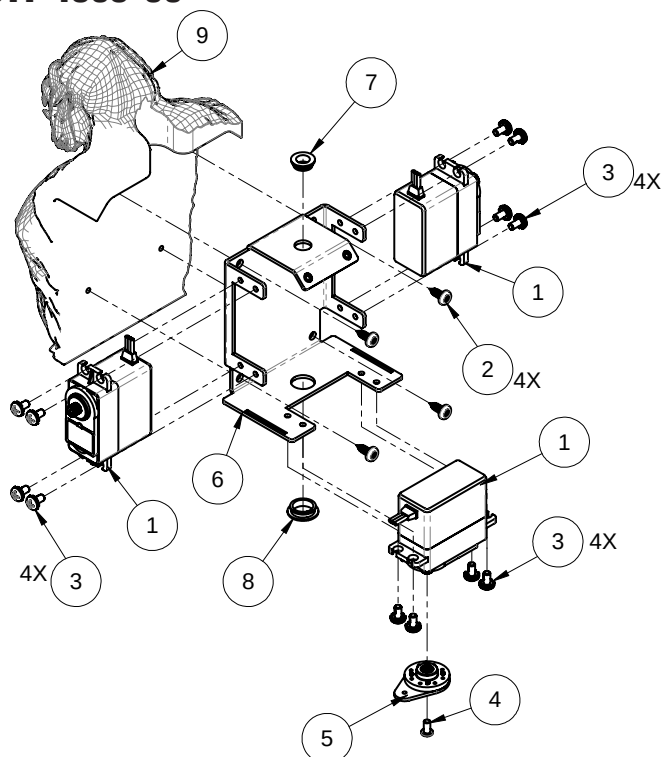
ID	Part Number	Description	Qty
1	240-5102-00	8-32 NYLON LOCK NUT	1
2	511-0032-02	ASM, SPIDER PIT, SPIDER SPRING	1
3	511-0032-01	ASM, SPIDER PIT, TARGET	1
4	535-3077-02	BRACKET, LOCK PLATE	1

5.54 KING KONG**500-2963-00**

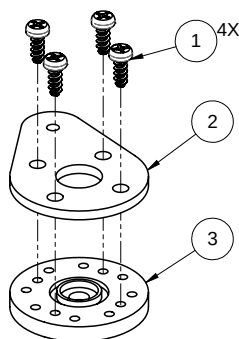
ID	Part Number	Description	Qty
1	511-4605-20	ASM, KONG BASE	1
2	511-4605-00	ASM, KONG BODY	1
3	511-4605-01	ASM, KONG LEFT ARM	1
4	511-4605-02	ASM, KONG RIGHT ARM	1
5	535-3093-02	COVER, KONG BACK	1
6	237-6331-00P	SCREW, 4-40 X 1/4" PPH MS BLACK, PATCH	2
7	240-5303-00	4-40 NYLON LOCK NUT	1
8	530-9023-01	SPACER, KONG ROTATION	1
9	237-6367-00	SCREW, M3 X 6MM, PPH, SERVO	2
10	535-3094-01	WIRE, KONG ROTATION LINK	1
11	242-5002-00	#4 FLAT WASHER - 5/16" O.D.	1
12	237-6378-00P	#6-32 X 3/8 PAN PHILLIPS W/DOUBLE SEMS, PATCH	1

5.55 KONG BASE**511-4605-20**

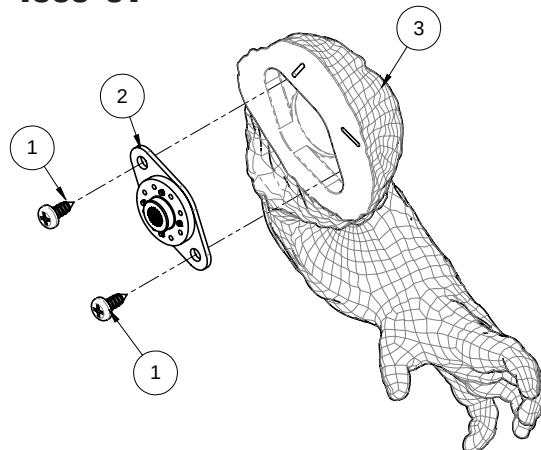
ID	Part Number	Description	Qty
1	040-5016-00B	CABLE CLAMP 0.38 BLACK	2
2	240-5005-01	6-32 NYLON STOP NUT; 18-8 SS, BLACK OXIDE	1
3	240-5303-00	4-40 NYLON LOCK NUT	4
4	520-5370-72	SPI NODE BOARD W/ PWM	1
5	520-8685-00	PCA 4 CHANNEL SERVO SPI ADAPTER	1
6	530-9023-00	KING KONG SHAFT	1
7	535-3093-10	BRACKET, KONG BASE	1
8	820-6855-91	DECAL, KING KONG, -91	1

5.56 KONG BODY**511-4605-00**

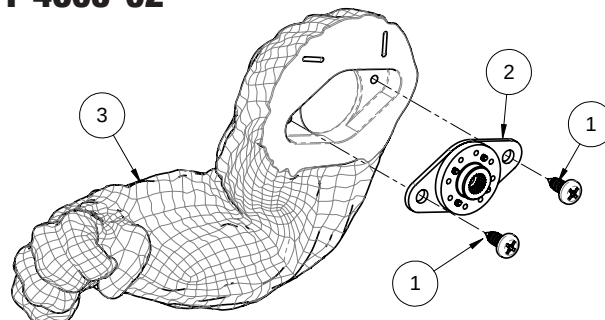
ID	Part Number	Description	Qty
1	041-5148-00	RC SERVO MOTOR	3
2	232-5000-00	SCREW, #6 X 3/8 PPH AB ZINC	4
3	232-5200-00P	SCREW, 6-32 X 1/4" PPH SEMS, PATCH	12
4	237-6367-00	SCREW, M3 X 6MM, PPH, SERVO	1
5	511-4605-51	ASM, SERVO HORN, KONG BODY	1
6	535-3093-01	BRACKET, KONG BODY	1
7	545-5423-00	NYLINER, 1/4" SHAFT, 4L1-FF	1
8	545-5423-01	NYLINER, 3/8" SHAFT, 6L1-FF	1
9	545-7953-00	TOY, KONG BODY, DECORATED	1

5.57 SERVO HORN, KONG BODY**511-4605-51**

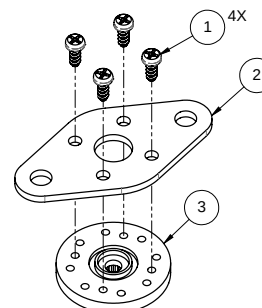
ID	Part Number	Description	Qty
1	237-6400-00	M2 x 5mm PH-RH SS TF SCR FOR PLASTIC	4
2	535-3093-21	SERVO ARM, WIRE, 15.18MM	1
3	545-1133-01	RC SERVO HORN ROUND	1

5.58 KONG LEFT ARM**511-4605-01**

ID	Part Number	Description	Qty
1	232-5000-00	SCREW, #6 X 3/8 PPH AB ZINC	2
2	511-4605-50	ASM, SERVO HORN, ARM	1
3	545-7953-01	TOY, KONG LEFT ARM, DECORATED	1

5.59 KONG RIGHT ARM**511-4605-02**

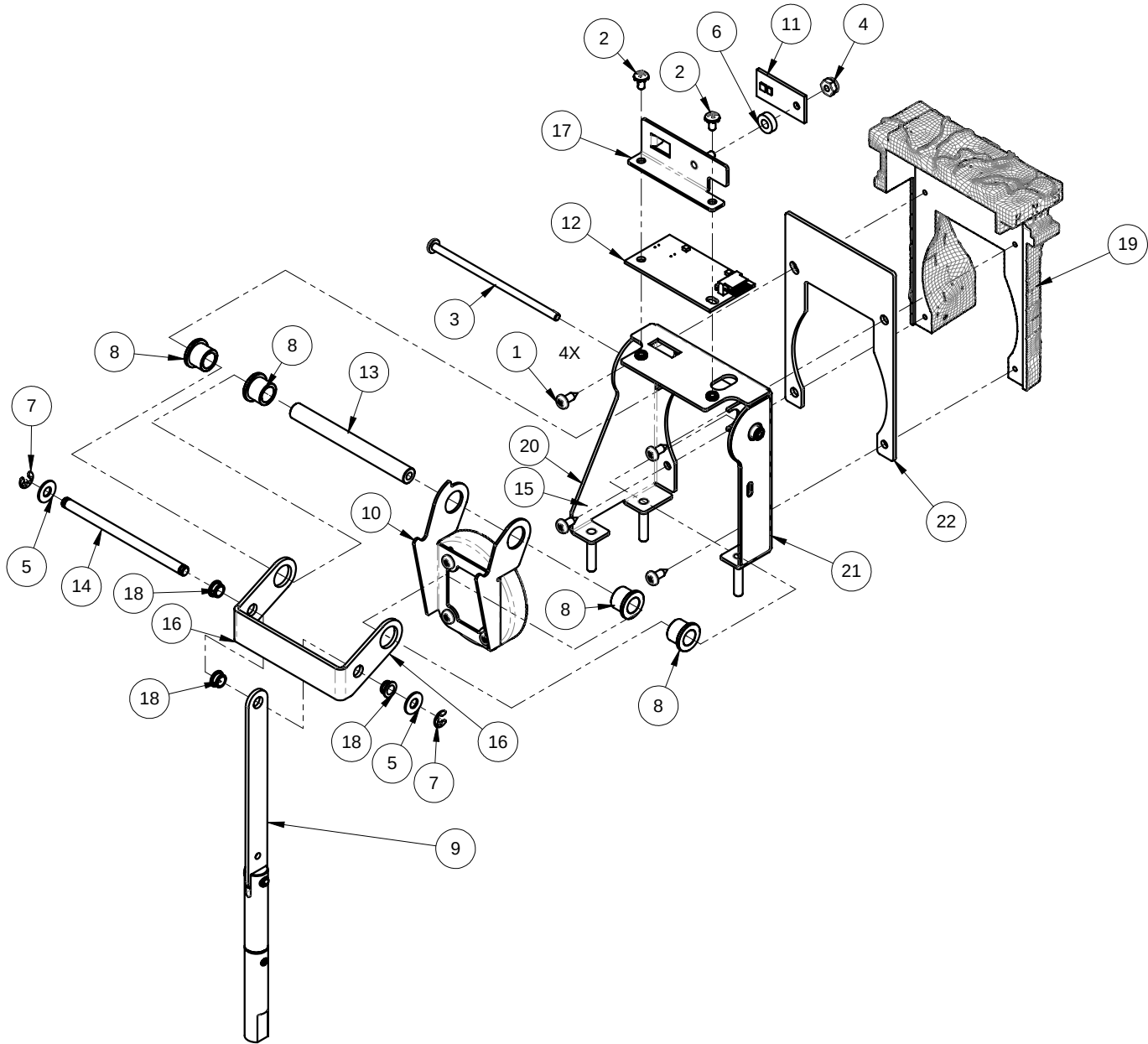
ID	Part Number	Description	Qty
1	232-5000-00	SCREW, #6 X 3/8 PPH AB ZINC	2
2	511-4605-50	ASM, SERVO HORN, ARM	1
3	545-7953-02	TOY, KONG RIGHT ARM, DECORATED	1

5.60 KONG SERVO HORN ARM**511-4605-50**

ID	Part Number	Description	Qty
1	237-6400-00	M2 x 5mm PH-RH SS TF SCR FOR PLASTIC	4
2	535-3093-22	SERVO ARM, KONG ARM	1
3	545-1133-01	RC SERVO HORN ROUND	1

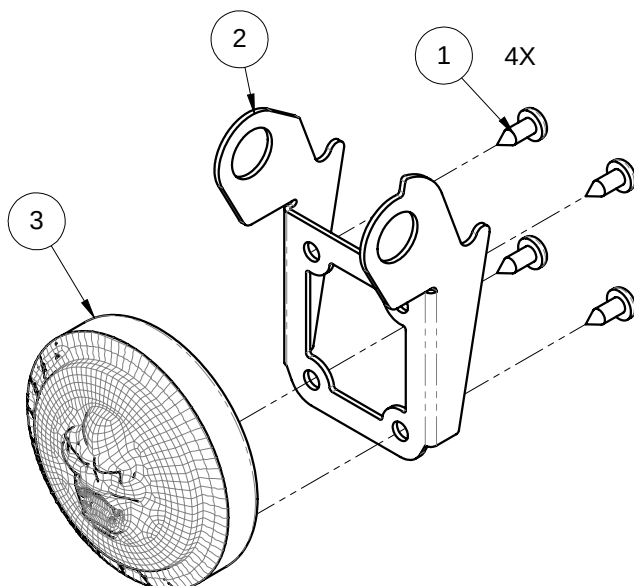
5.61 GONG ASSEMBLY

500-2952-00

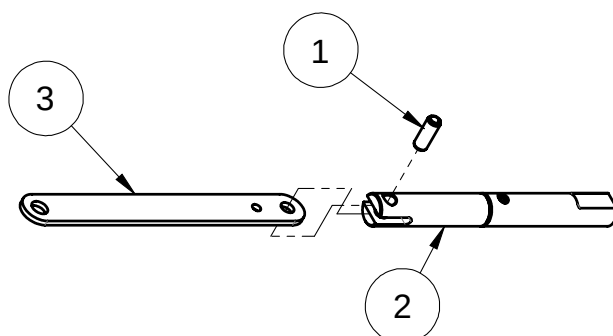


ID	Part Number	Description	Qty
1	232-5000-00	SCREW, #6 X 3/8 PPH AB ZINC	4
2	232-5200-00P	SCREW, 6-32 X 1/4" PPH SEMS, PATCH	2
3	232-5210-00P	SCREW, 6-32 X 3-1/4" PPH MS ZINC, PATCH	1
4	240-5005-00	6-32 NYLON STOP NUT	1
5	242-5088-00	NYLON WASHER .195" X .437" X .031"	2
6	254-5000-19	NYLON SPACER - BLACK - 3/8 OD X .175 ID X 1/8"	1
7	270-5001-00	RETAINING E-RING, 3/16" SHAFT OD	2
8	283-5018-00	5/16 ID X 7/16 OD X 3/8 LG. BUNTING SAE 841 BRONZE FLANGED BEARING-PART #EF050706	4
9	511-5479-00	ASM, GONG PLUNGER	1
10	511-5480-00	ASM, GONG SWING TARGET	1
11	520-7000-00	SINGLE FLASH LED BOARD	1

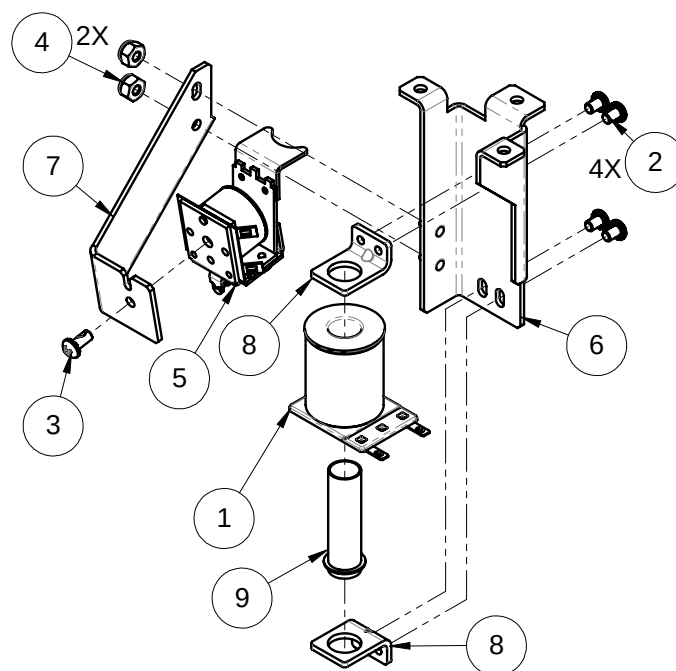
ID	Part Number	Description	Qty
12	520-8686-00	PCA GONG OPTO	1
13	530-5988-00	SHAFT, GONG PIVOT	1
14	530-7812-23	PIVOT PIN, .188 DIA.	1
15	535-5178-30	BRACKET, GONG BASE	1
16	535-5178-32	BRACKET, GONG STOP	1
17	535-5178-34	BRACKET, GONG FLASHER	1
18	545-5352-00	NYLINER, 3/16" SHAFT	3
19	545-7926-01	TOY, GONG FRAME, DECORATED	1
20	820-6855-81	DECAL, KING KONG, -81	1
21	820-6855-82	DECAL, KING KONG, -82	1
22	830-6964-55	PLASTIC, KING KONG, -55	1

5.62 GONG SWING TARGET ASSEMBLY**511-5480-00**

ID	Part Number	Description	Qty
1	232-5000-00	SCREW, #6 X 3/8 PPH AB ZINC	4
2	535-5178-31	BRACKET, GONG SWING	1
3	545-7926-00	TOY, GONG, DECORATED	1

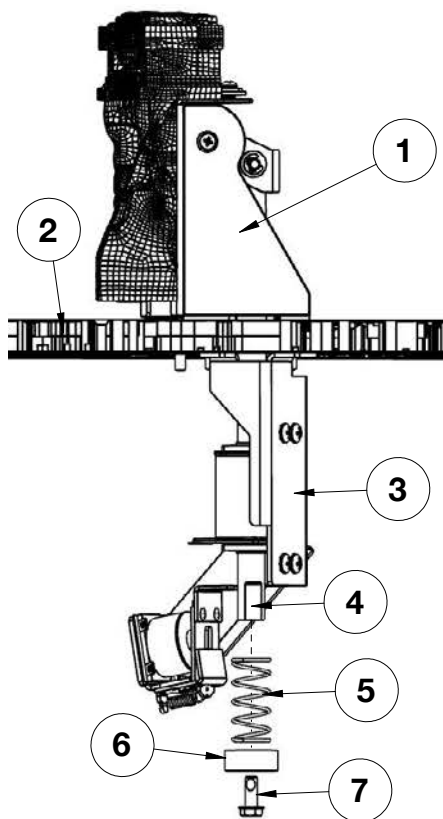
5.63 GONG PLUNGER ASSEMBLY**511-5479-00**

ID	Part Number	Description	Qty
1	251-5042-00	.188 x .50 ROLL PIN	1
2	515-1269-00	PLUNGER, GONG LOCK	1
3	535-5178-33	LINK, GONG	1

5.64 GONG COIL ASSEMBLY**511-5437-20**

ID	Part Number	Description	Qty
1	090-5044-ND	COIL 26-1200 - NO DIODE	1
2	232-5300-00P	SCREW, 8-32 X 1/4" PPH SEMS, PATCH	4
3	232-5301-00P	SCREW, 8-32 X 3/8" PPH SEMS, PATCH	1
4	240-5102-00	8-32 NYLON LOCK NUT	2
5	515-8547-00	LATCH COIL ASM, GONG	1
6	535-5178-40	BRACKET, GONG COIL	1
7	535-5178-41	BRACKET, GONG LATCH	1
8	535-5203-03	COIL RETAINING BRACKET	2
9	545-5076-01	COIL SLEEVE	1

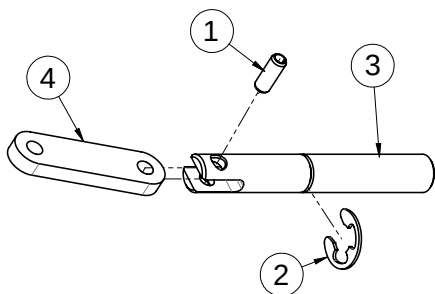
5.65 GONG, FULLY ASSEMBLED



ID	Part Number	Description	Qty
1	500-2952-00	ASM, GONG	1
2	830-5100-Z6	PLAYFIELD, KING KONG	1
3	511-5437-20	ASM, GONG COIL	1
4	535-5178-33	LINK, GONG	1
5	266-5076-00	COMPRESSION SPRING	1
6	530-5511-00	PLUNGER HEAD	1
7	237-5995-00P	Screw, 10-32 X 1/2" HWH Serr MS Zinc, Patch	1

5.66 TRAIN LOCK DIVERTER PLUNGER

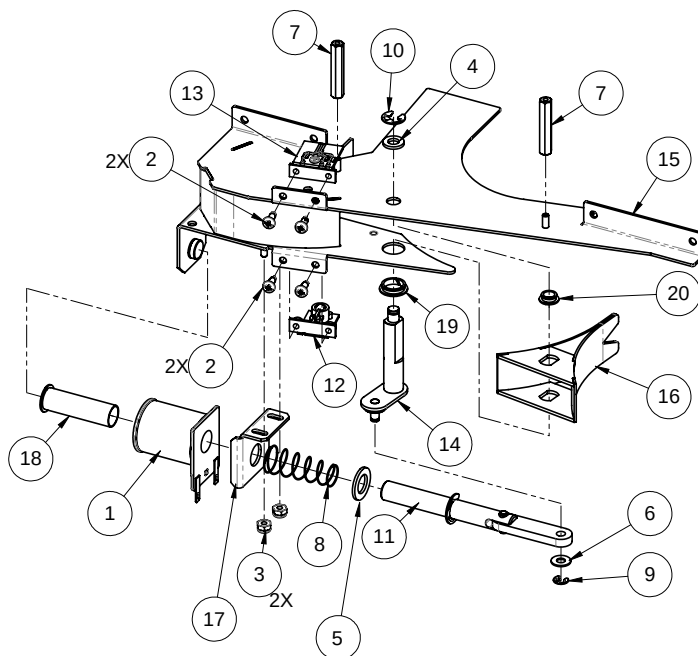
511-0034-00



ID	Part Number	Description	Qty
1	251-5042-00	.188 x .50 ROLL PIN	1
2	270-5005-00	RETAINING E-RING, 7/16" SHAFT OD	1
3	530-8001-00	PLUNGER, BK SHIELD MECH	1
4	546-7966-00	LINK, RAMP DIVERTER	1

5.67 TRAIN LOCK DIVERTER ASSEMBLY

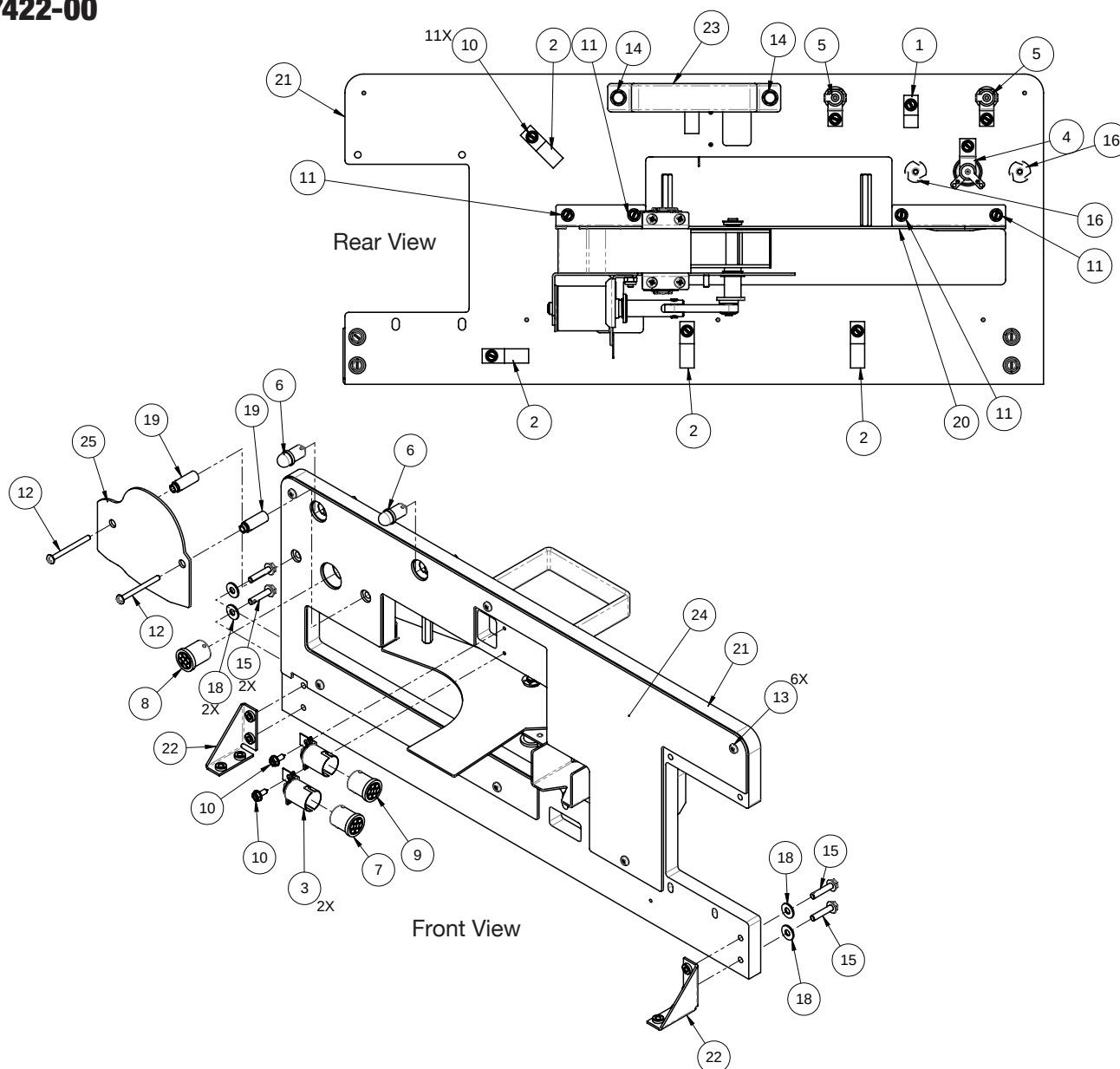
500-7423-00



ID	Part Number	Description	Qty
1	090-5044-ND	COIL 26-1200 - NO DIODE	1
2	237-5880-00	SCREW, #6 X 3/8 PPH T-25	4
3	240-5005-00	6-32 NYLON STOP NUT	2
4	242-5072-01	NYLON WASHER .252 ID X .472 OD	1
5	242-5081-00	WASHER - NYLON .75 OD x .44 ID	1
6	242-5088-00	NYLON WASHER .195" X .437" X .031"	1
7	254-5008-33	HEX SPACER - 1 3/8"	2
8	266-5020-00	COMPRESSION SPRING-CONICAL	1
9	270-5001-00	RETAINING E-RING, 3/16" SHAFT OD	1
10	270-5002-00	RETAINING RING - 1/4"	1
11	511-0034-00	ASM, TRAIN LOCK DIVERTER PLUNGER	1
12	515-0215-00	LONG RANGE OPTO EMITTER ASSEMBLY	1
13	515-0215-01	LONG RANGE OPTO RECEIVER ASSEMBLY	1
14	515-9933-00	CRANK, RAMP DIVERTER	1
15	535-0088-00	RAMP DIVERTER, KING KONG	1
16	535-0088-01	PADDLE, DIVERTER	1
17	535-0088-02	BRACKET, COIL, SIDE ANTI-ROTATION	1
18	545-5031-00	COIL SLEEVE	1
19	545-5418-00	NYLINER - 7/16 SHAFT (7L1-FF)	1
20	545-5423-00	NYLINER, 1/4" SHAFT, 4L1-FF	1

5.68 BACK PANEL ASSEMBLY

500-7422-00



ID	Part Number	Description	Qty
1	040-5000-03	1/4" CABLE CLAMP	1
2	040-5000-06	1/2" CABLE CLAMP	5
3	077-5100-00	LAYDOWN STANDARD SOCKET	2
4	077-5101-00	STAND-UP SOCKET, #89 - SHORT	1
5	077-5223-00	SOCKET, 2-LUG VERTICAL, SHORT	2
6	112-5034-08F	DOUBLE LED, BAYONET BASE - WHITE FROSTED	2
7	113-5045-07	MULTI-LED FLASHER, 5 VDC - ORANGE	1
8	113-5045-08	MULTI-LED FLASHER, 5 VDC - WHITE	1
9	113-5045-09	MULTI-LED FLASHER, 5 VDC - PURPLE	1
10	234-5000-00	SCREW, #6 X 3/8" HWH	11
11	234-5101-00	SCREW, #8 X 1/2" SLT HWH AB ZINC	4
12	237-5510-02	SCREW, 6-32 X 1-1/2" PPH MS BLACK	2

ID	Part Number	Description	Qty
13	237-5805-00	SCREW, #6 X 1/2" PPH AB BLACK	6
14	237-5995-00	SCREW, 10-32 X 1/2" HWH SERR MS ZI	2
15	237-6010-00P	#8-32 X 3/4" HWH MS, PATCH	4
16	240-5002-00	6-32 T-NUT	2
17	240-5204-00	#10-32 T-NUT (Backpanel Handle)	2
18	242-5005-00	#8 WASHER	4
19	254-5007-03	3/4" SELF RETAINING SPACER	2
20	500-7423-00	ASM, TRAIN LOCK DIVERTER	1
21	525-1028-00	BACK PANEL, KING KONG, LE	1
22	535-0587-00	BACK PANEL BRACE	2
23	535-2288-00	HANDLE, BACKPANEL	1
24	830-6964-91	PLASTIC, KING KONG, -91	1
25	830-6964-92	PLASTIC, KING KONG, -92	1



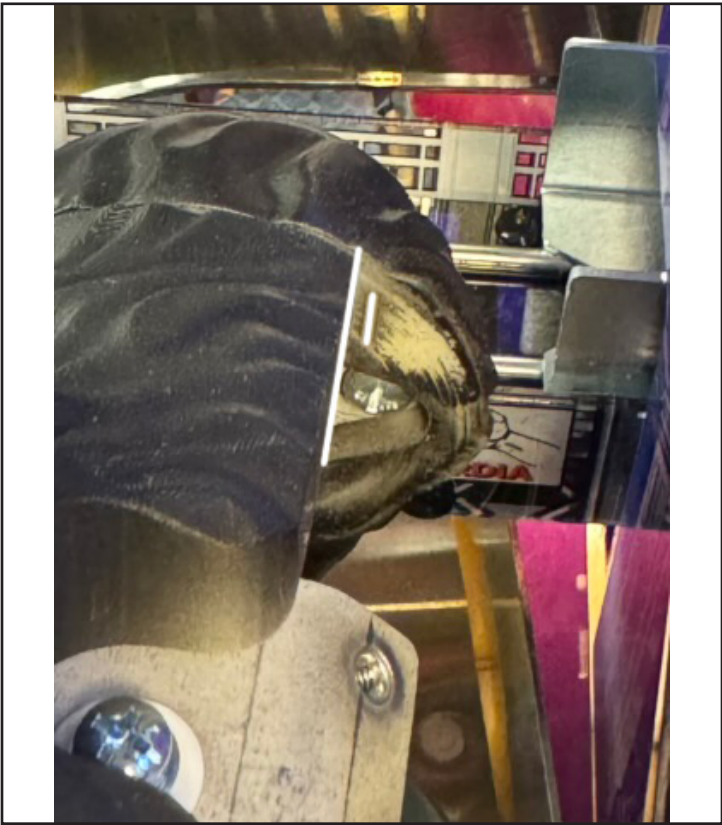
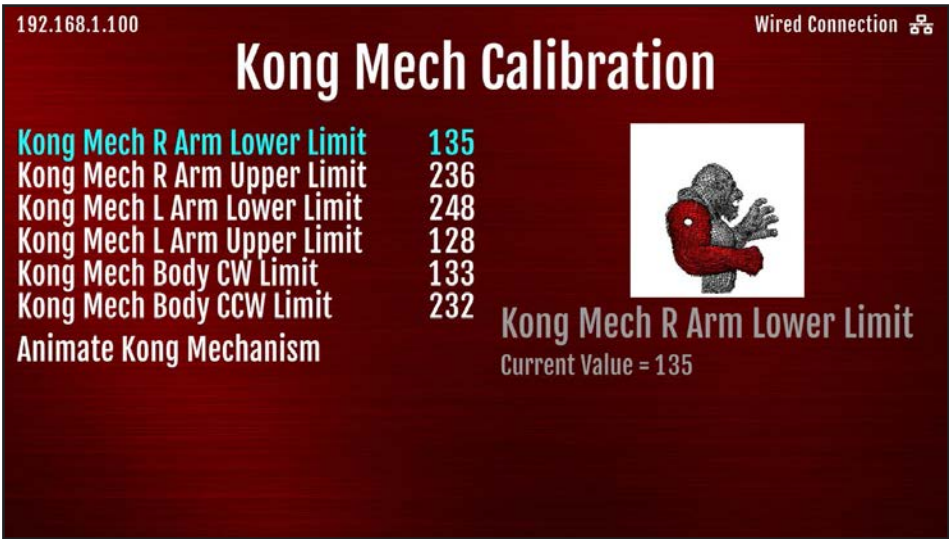
KING KONG
MYTH OF TERROR ISLAND™
TM and © 2025 STERN PINBALL, INC.

5.69 KING KONG CALIBRATION PROCEDURE

- 1. With the game powered off, remove the two 4-40 x 1/4" screws and Kong back cover using a #1 Phillips screwdriver.
- 2. Power on the game and enter the mech calibration menu via SERVICE MENU -> DEVICE TESTS -> KONG MECH CALIBRATION.
- 3. Adjust the Kong Mech R Arm Lower Limit adjustment to align the arm lower limit alignment mark parallel to the back face of the Kong body. Reference the image on the LCD screen to determine what the rough position for the arm should be. Failure to align to the correct alignment mark will result in incorrect Kong mech animations. Save this value.

White Values = Factory Default Setting

Orange Values = Customize Setting



KING KONG CALIBRATION PROCEDURE CONTINUED

- Repeat the same procedure for the Kong Mech R Arm Upper Limit adjustment. Align the upper limit alignment mark parallel to the back face of the Kong body.

192.168.1.100
Wired Connection 

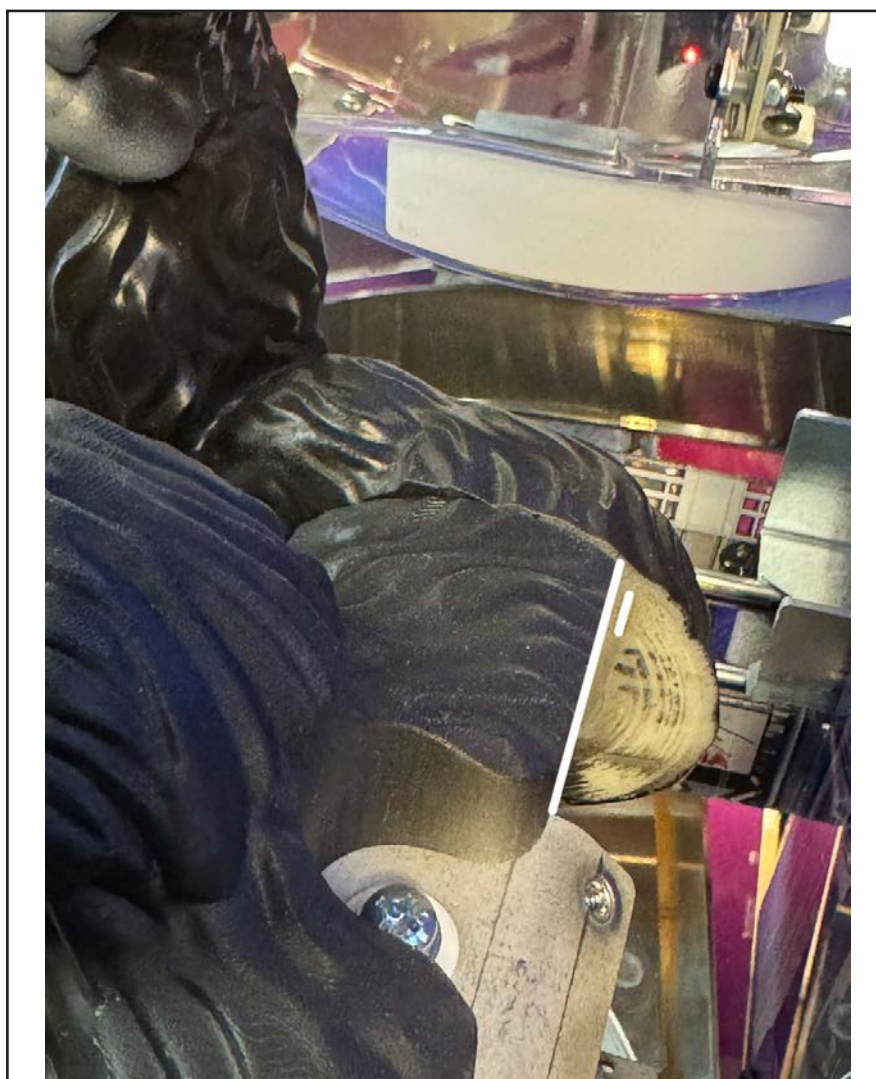
Kong Mech Calibration

Kong Mech R Arm Lower Limit	135
Kong Mech R Arm Upper Limit	236
Kong Mech L Arm Lower Limit	248
Kong Mech L Arm Upper Limit	128
Kong Mech Body CW Limit	133
Kong Mech Body CCW Limit	232
Animate Kong Mechanism	



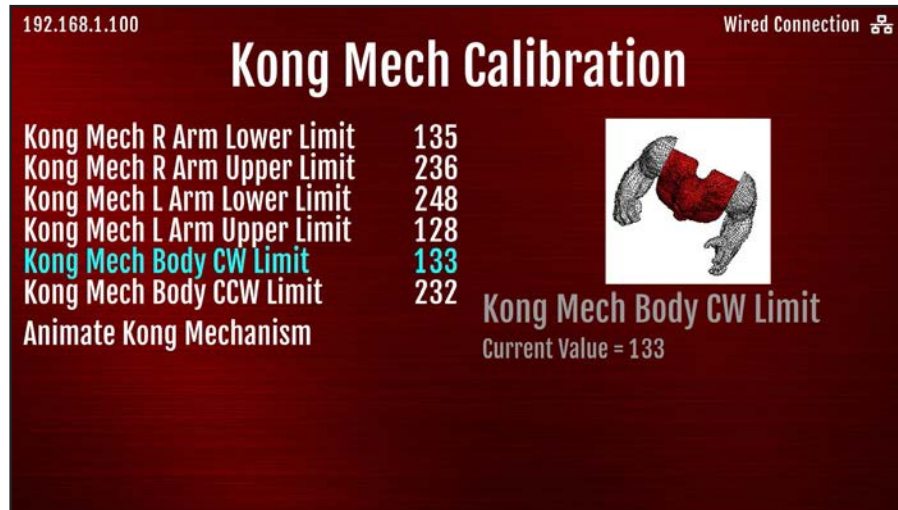
Kong Mech R Arm Upper Limit

Current Value = 236



KING KONG CALIBRATION PROCEDURE CONTINUED

5. Repeat step 3 and 4 for Kong Mech L Arm Lower Limit and Kong Mech R Arm Upper Limit.
6. After adjusting both arm upper and lower limits, continue to Kong Mech Body CW Limit adjustment. Adjust this setting such that Kong's right arm lightly touches the back panel as shown. Consult the reference image on the LCD for a rough position of the mechanism. It is recommended to adjust the left and right arms before attempting to adjust the body calibration limits.



KING KONG CALIBRATION PROCEDURE CONTINUED

7. Adjust the Kong Mech Body CCW Limit such that Kong faces perpendicular to the backpanel of the game. Consult the reference image on the LCD for a rough position of the mechanism.



8. Animations can be tested by selecting Animate Kong Mechanism. Back out of the calibration menu to save settings.
9. With the game powered off, reinstall the Kong Back Cover with the original 4-40 x 1/4" screws.

6. SPECIFICATIONS

500-55Z6-01

SPECIFICATIONS, MECHANICAL, GAME SETUP

Specification	Imperial	Metric
Weight	210 lbs	96 kg
Max dimensions, leg levers extended (h, w, d)	78 x 27.75 x 57 in	198 x 70.5 x 145 cm
Minimum game dimensions (h, w, d)	76 x 27.75 x 57 in	193 x 70.5 x 145 cm
Minimum room dimensions per game (h, w, d)	80 x 36 x 84 in	203 x 91 cm x 214 cm

- (h, w, d) = height, width, depth.

SPECIFICATIONS, MECHANICAL, BOXED

Specification	Imperial	Metric
Weight, boxed (without pallet)	230 lbs	105 kg
Box dimensions (h, w, d)	56.5 x 31 x 31 in	144 x 79 x 79 cm
Minimum dimensions (h, w, d)	76 x 26 x 57 in	193 x 66 x 145 cm

- (h, w, d) = height, width, depth.

SPECIFICATIONS, ELECTRICAL

Specification	North America - 120VAC	International - 240VAC
Line Voltage, Nominal	120 VAC	240 VAC
Line Voltage Range	90 VAC - 250 VAC	90 VAC - 250 VAC
Line Frequency *	60 Hz	50 Hz, 60 Hz
Line Power, Current - attract mode	70 W, 0.6 A @ 120 VAC	70 W, 0.3 A @ 240 VAC
Line Power, Current - nominal	360 W, 3 A @ 120 VAC	360 W, 1.5 A @ 240 VAC
Line Power, Current - peak, <100 ms	540 W, 4.5 A @ 120 VAC	540 W, 2.25 A @ 240 VAC

* NOTE: Games designed for 60hz operation (e.g. North America games) will not function correctly on 50hz power and vice versa.

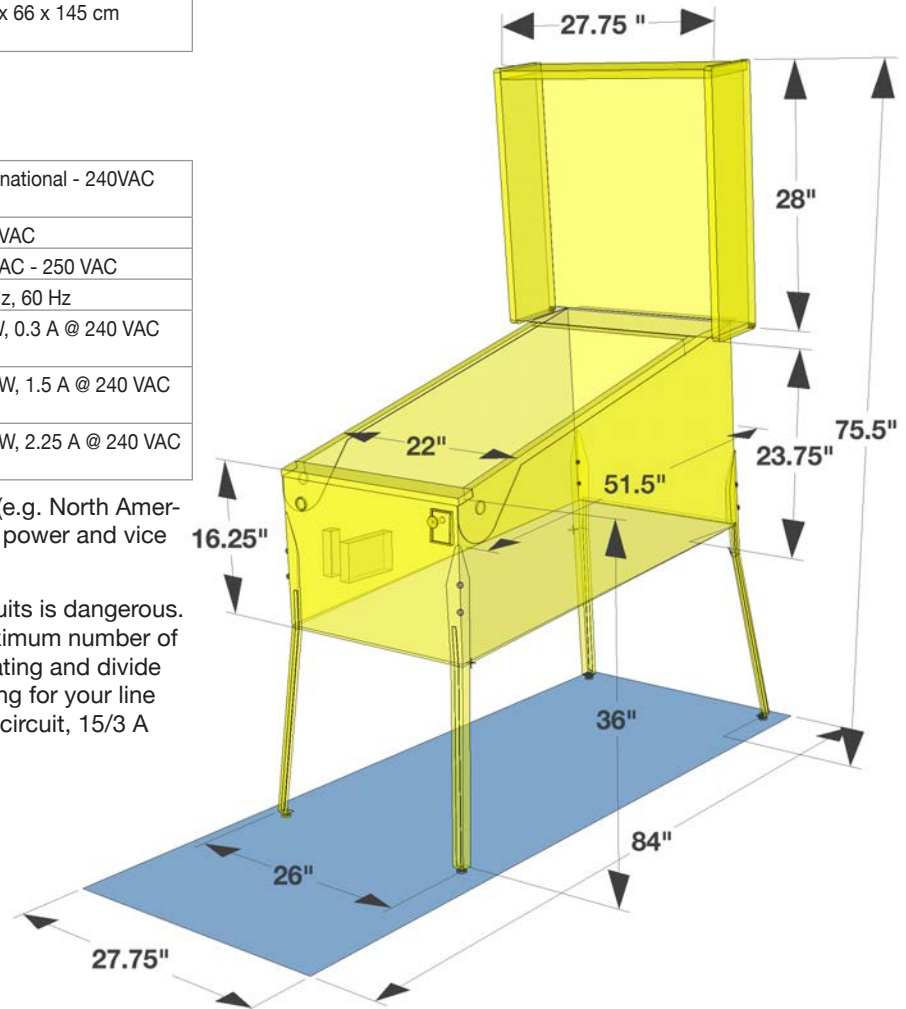
WARNING: Overloading electrical supply circuits is dangerous. Do not overload circuits. To calculate the maximum number of games for a circuit, check circuit amperage rating and divide by the game Nominal Line Power Current rating for your line voltage. For example, a 15A 120V household circuit, $15/3 \text{ A}$ (nominal current) = 5 games maximum.

SPECIFICATIONS, ENVIRONMENT

	Minimum	Maximum
Temperature, Operating	32 °F / 0 °C	104 °F / 40 °C
Temperature, Storage	32 °F / 0 °C	104 °F / 40 °C
Relative Humidity, Operating	5%	95% non-condensing
Relative Humidity, Storage	5%	95% non-condensing

- (a) "The appliance has to be placed in a horizontal position."
- (b) If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid hazard.

6.1 GAME DIMENSIONS



6.2 WARRANTY

Stern Pinball machines are assembled in Elk Grove Village, Illinois, USA; each pinball machine has unique characteristics that make it a one-of-a-kind American-made product. Each machine will have variations in appearance resulting from differences in the machine's particular wood parts, individual silk screened art and mechanical assemblies. Stern Pinball has inspected each game element to ensure it meets stringent quality and playability standards.

STERN PINBALL INC LIMITED WARRANTY

For warranty information, please visit:

sternpinball.com/support/warranty

ATTENTION! IMPORTANT WARRANTY INFORMATION

The electronics system, node network architecture, mechanical devices and associated software control systems in this pinball machine are designed to work with genuine Stern Pinball accessories and devices.

Installation of non-authorized accessories, lamps, LED's, motors or other devices or modification of electro-mechanical devices may damage the system and may void your warranty.

6.3 WARNINGS, COMPLIANCE, AND LEGAL NOTICES

PHOTOSENSITIVE SEIZURES HEALTH WARNING



A very small percentage of people may experience a seizure when exposed to certain visual images, including flashing lights or patterns. Even people with no history of seizures of epilepsy may have an undiagnosed condition that can cause "photosensitive epileptic seizures" due to certain visual images, flashing lights or patterns. Symptoms can include lightheadedness, altered vision, eye or face twitching, jerking or shaking of arms or legs, disorientation, confusion, momentary loss of awareness, and loss of consciousness or convulsions that can lead to injury from falling down or striking nearby objects.

IMMEDIATELY STOP PLAYING AND CONSULT A DOCTOR IF YOU EXPERIENCE ANY OF THESE SYMPTOMS.

PARTS SUBSTITUTIONS



For safety and reliability, substitute parts and equipment modifications are not recommended and may void any and all warranties. Use of Non-Stern Pinball Inc Parts or Modifications of game circuitry may adversely affect game play or game safety. Transport pinball machines with hinged backbox in the down position only! Always take great care when servicing any game. Always read the service manual before replacing or servicing components. Substitutions of parts or equipment modifications may void FCC type acceptance.

Always disconnect the line voltage before servicing. Some parts may remain energized when unplugged. Take great caution when servicing any electrical components.

PERCHLORATE MATERIAL - Special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate

FCC CLASS A SUBPART J COMPLIANCE



This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

RF INTERFERENCE NOTICE

The cable harness placements, ground strap routing, and other shielding have been designed to keep RF radiation and conduction within levels accepted by FCC rules. To maintain these levels, factory harness position, shielding, and ground straps must be installed in their factory locations should they become disconnected during maintenance.

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