



RHOOX

Rugged parts for your ride.

LGT-340L / LB

Club Car Precedent

LED Bumper Light Kit with RGBW Accent Lights
Installation Instructions



Patent Pending™

Caution: Please read through the instructions carefully. Before starting this project, remove the system's positive and negative connections from the battery or battery pack. This kit is designed for 12-48V operation only. Operating this kit at a higher voltage will void any and all warranties. Add-on accessories for this light kit may not be rated for any voltage over 12V DC and can be damaged if installed at a higher voltage. Look behind each drill location **BEFORE YOU DRILL**. Installer is responsible for damage (i.e. drilling into a wiring harness, battery, fuel tank etc.).

Table of Contents

- 1) **Headlight & Taillight Preparation** Page 4
- 2) **Wire Harness Installation** Page 5
 - LGT-306JH 12-Pin to 9-Pin Jumper Harness (Gas Carts Only)
 - LGT-396 Bucket Harness
 - Plug & Play Plug & Play Harness with Accent Lights
 - VOLT-0011 Voltage Reducer 16V-18V to 12V
 - VOLT-2003 / 2005 Voltage Reducer 36V-48V to 12V
- 3) **Accent Lighting Options** Page 9
- 4) **Headlight Bumper Bar** Page 11
- 5) **Taillights** Page 12
- 6) **Power Connections** Page 12

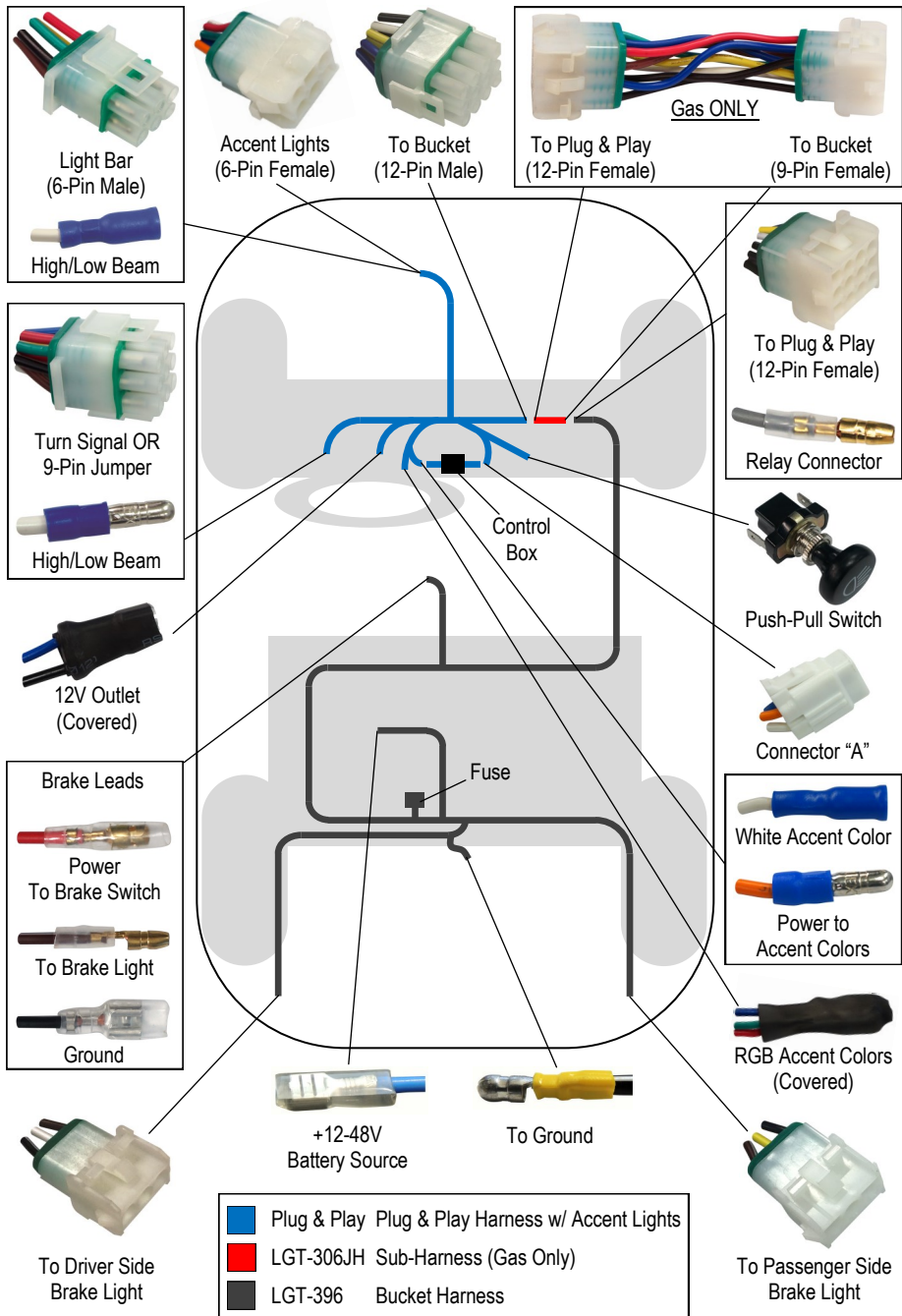
Optional Accessory Installation Instructions

- 1) **Turn Signal Assemblies** Page 15
 - LGT-T2 (LGT-112) Standard Turn Signal Switch w/ Horn Button
 - LGT-T3 (LGT-132A) Deluxe Turn Signal Switch w/ Horn Button
- 2) **Horn** Page 16
- 3) **12 Volt Receptacle and Dual USB Outlets** Page 17
 - ACC-0058 12 Volt Outlet
 - ACC-0097 Dual USB Outlet
- 4) **Brake Light Switches** Page 18
 - LGT-B1 (LGT-138) Brake Pad Light Switch, Universal Pedal Mount
 - LGT-B4 (LGT-644) Brake Switch, Linkage Activated w/ Time Delay
 - LGT-B9 Brake Pad Light Switch, OE Fit

Tools Needed for Installation

- Screwdriver (Phillips & Flat Head)
- Sockets & Open Ended Wrenches (10mm, 7/16", 13mm)
- Drill, Drill Bits & Hole Saws (1/8", 3/16", 1/4", 3/4", 7/16", 1", 1-1/8", 1-1/2")
- Torx Bits (T-15, T-30, T-40)
- Center Punch
- Wire Cutters & Crimpers
- Fish Tape / Wire Snake
- Hammer
- Rivet Gun
- Jig Saw or Rotary Tool
- Sandpaper or File
- Utility Knife

Wire Harness Overview



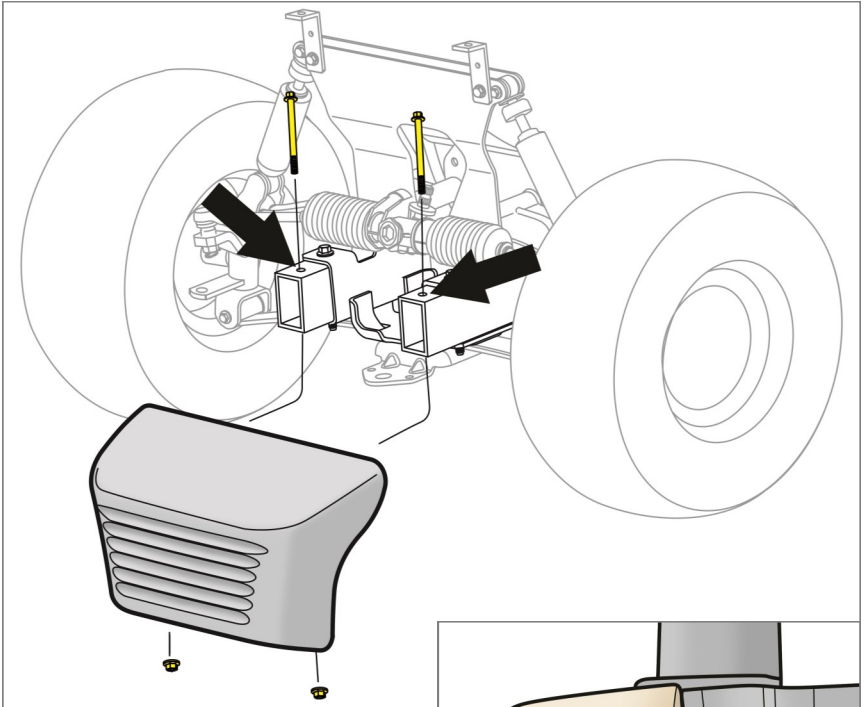
Before You Start

1. Turn Key OFF.
2. Place Tow/Run Switch in Tow if equipped.
3. Remove the system's positive and negative connections from the battery or battery pack.
4. Engage the parking brake.

Headlight & Taillight Preparation

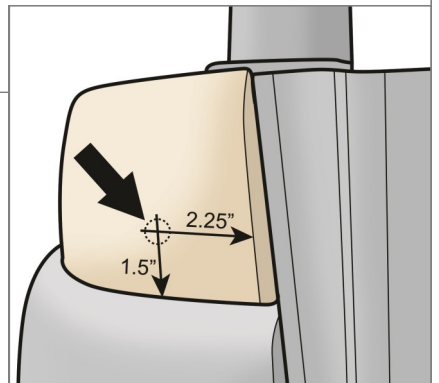
Headlight Preparation

1. Remove front bumper from the chassis. Retain hardware.

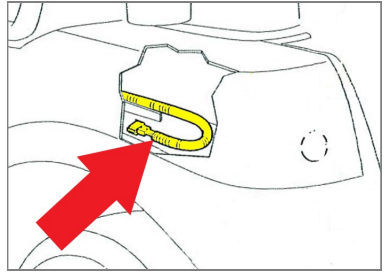


Taillight Preparation

1. On the driver side rear body, measure 2-1/4" from the vertical body line and 1-1/2" from the under body. Mark the location with a center punch. Drill a 1-1/2" hole at the marked location. File any rough edges.



- Repeat Step 1 for the passenger side taillight opening.
- Electric Carts 2004-08.5 and Gas Carts: Reach inside of the rear body and pull the taillight connectors through the holes.



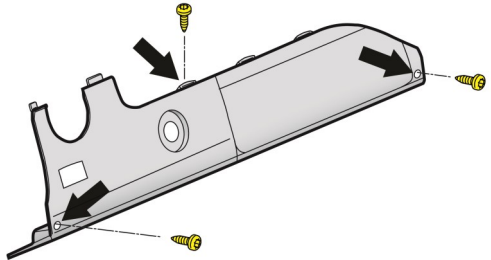
Electric Carts 2008.5+: Continue to “Wire Harness Installation” below.

Wire Harness Installation

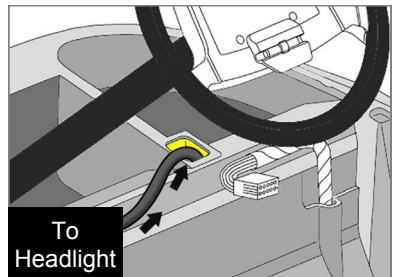


All Carts

- Remove the dash panel by removing the (3) Torx bolts. Retain hardware.

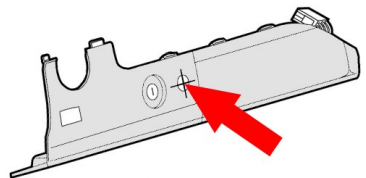


- Route the headlight connector on the plug & play harness through the access hole in the passenger side dash to the front of the cart.

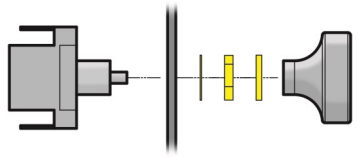


- If powering the lights with a push-pull switch, locate the indentation to the right of the key switch on the dash panel and drill a 7/16” hole. File any rough edges.

NOTE: Do NOT install the push-pull switch if installing the LGT-132A (T3) deluxe turn signal switch.

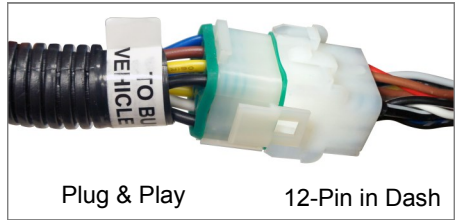


- Remove the knob, retaining nuts and lock washer from the push-pull switch and insert the shaft of the switch into the newly drilled hole.
- Secure using the lock washer and retaining nuts. Reattach knob.



Electric Carts 2004-08.5

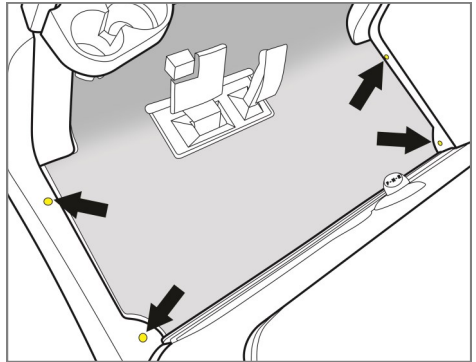
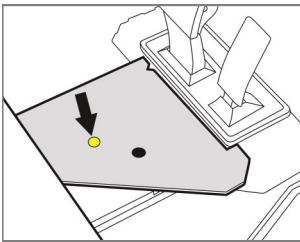
- Locate the factory 12-pin male connector behind the dash and connect it to the 12-pin connector on the plug & play harness.



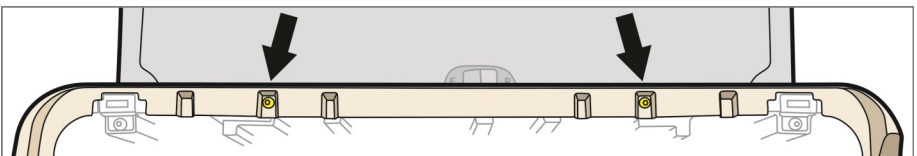
Electric Carts 2008.5+

NOTE: Electric Club Car Precedents manufactured after the mid 2008s require a bucket harness (LGT-396) to allow the installation of light kits. The harness can be used for 8V or 12V battery configurations.

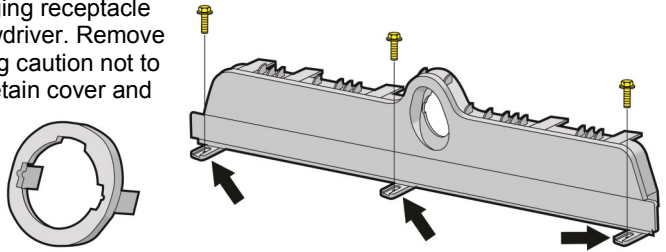
- Remove the front seat bottom.
- Remove the floor mat. Retain hardware.
- Remove the rivet on the pedal group access panel and remove the panel. Retain hardware.



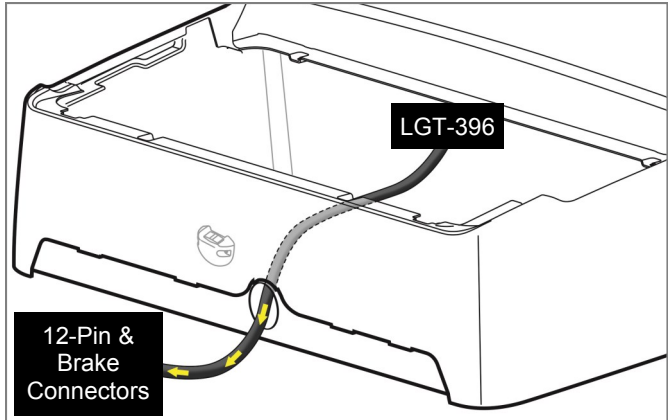
- Remove and retain the (2) front body screws.



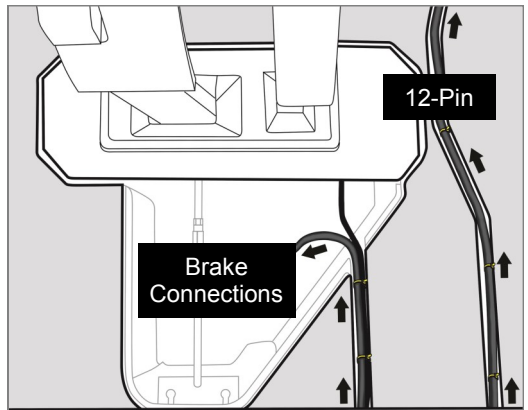
- Remove the charging receptacle cover with a screwdriver. Remove the kick plate using caution not to break the tabs. Retain cover and kick plate.



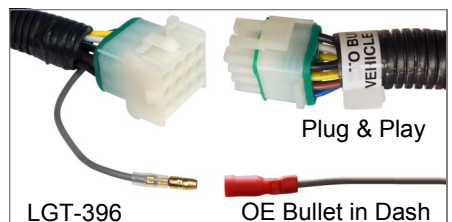
- Route the 12-pin connector and brake light connectors on the LGT-396 bucket harness into the battery compartment and through the hole where the main harness runs to the front of the cart (below the F/R switch).



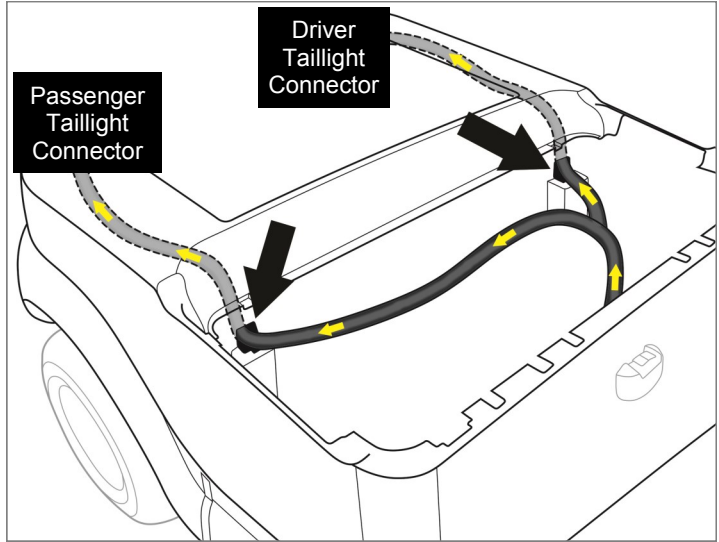
- Feed the brake switch leads through the center floor channel into the pedal group compartment. Use cable ties to secure the LGT-396 to the OE harness.
- Route the 12-pin connector along the floor channel with the main harness and up under the dash. Secure with cable ties.



- Behind the dash panel, connect the male bullet connector on the LGT-396 to the red female bullet connector on the OE harness. Connect the 12-pin connector on the LGT-396 to the 12-pin connector on the plug and play harness.

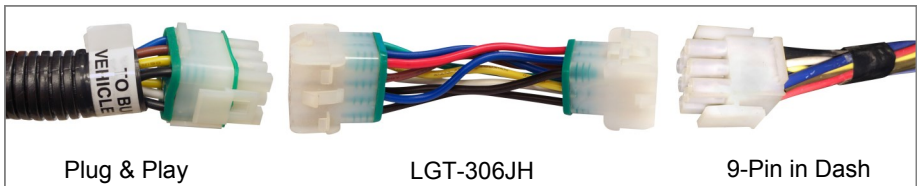


10. In the rear of the cart, use a wire snake or fish tape to route the taillight leads through the holes in the upper corners of the battery compartment to the holes drilled for the taillights.



Gas Carts

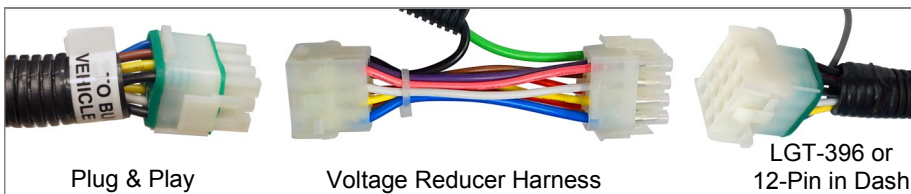
1. Locate the 9-pin connector behind the dash and connect it to the 9-pin connector on the LGT-306JH jumper harness.
2. Connect the 12-pin connector on the LGT-306JH to the 12-pin connector on the plug & play harness.



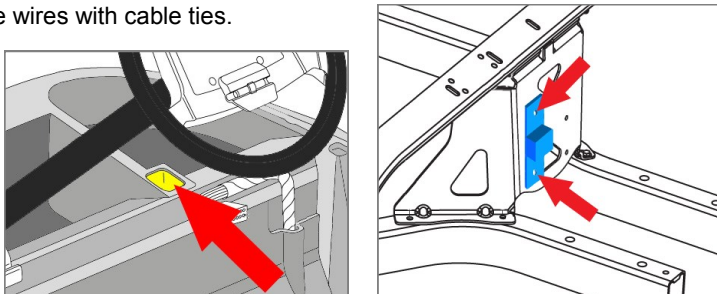
Voltage Reducers

NOTE: This light kit is designed to operate at a DC voltage range of 12-48V. Please be advised that add-on accessories for this light kit may not be rated for any voltage over 12V DC and can be damaged if installed at a higher voltage. A voltage reducer is required if installing add-on accessories to a voltage greater than 12V DC.

1. Mount the 12-pin to 12-pin connector from the voltage reducer between the plug & play harness and either the LGT-396 bucket harness or the 12-pin connector on the OE harness behind the dash.



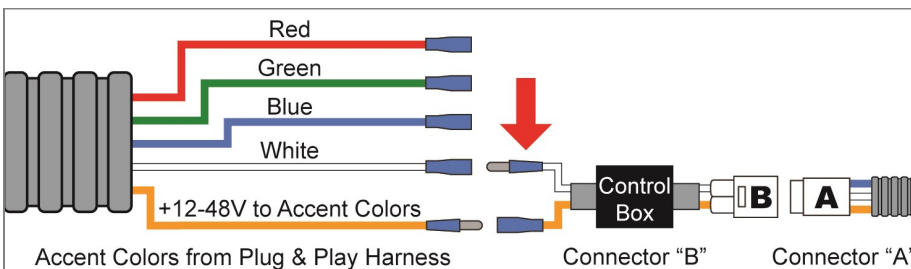
2. Route the rest of the voltage reducer's harness through the access hole in the passenger side dash to the front chassis of the cart.
3. Mount the reducer to the center dash support using the included hardware. VOLT-0011 is shown. VOLT-2003 and VOLT-2005 mount in the same location.
4. Connect the voltage reducer harness to the voltage reducer.
5. Secure loose wires with cable ties.



Accent Lighting Options

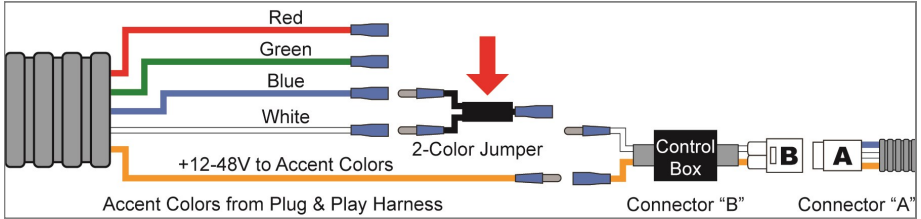
Single Color Accent Lighting (Out of the Box)

1. For WHITE accent lighting only, configure the plug & play harness as shown.
2. For RED, GREEN or BLUE accent lights, switch the WHITE color wire with either of the three different RGB color wires (RED, GREEN or BLUE).



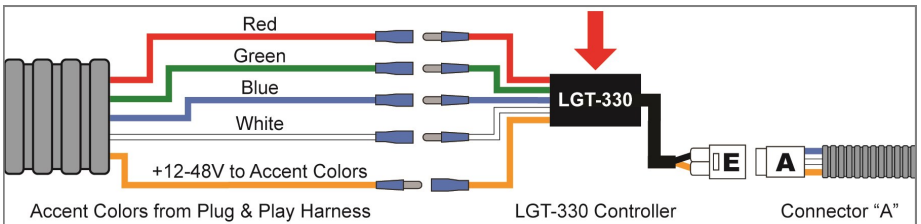
2 Color Combination Accent Lighting (Uses 2-Color Jumper Included with Kit)


1. Disconnect Connector “B” from the WHITE accent wire.
2. Attach the 2-color jumper between Connector “B” and any (2) of the RGBW color wires for a single combined color (i.e. RED + BLUE = PURPLE).



Multi-Color Combination Accent Lighting (LGT-330 Controller Required)

1. Remove Connector “B” from the plug & play harness and replace it with the LGT-330 Bluetooth Controller (“E”). Connect “E” to “A”. Connect the bullet connectors to the (5) accent color leads.

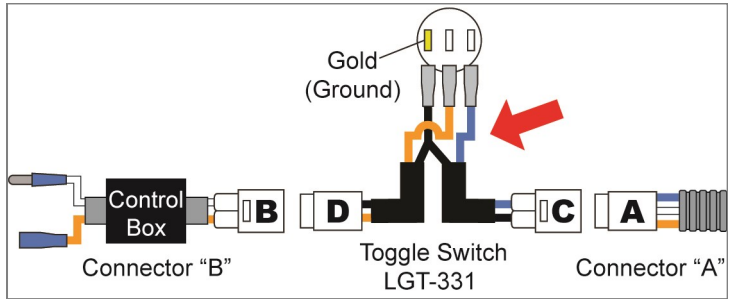


2. Download the “Happy Lighting” App on a smart device by scanning the QR code on the Bluetooth controller or searching for it in the App Store.
- 
3. Once downloaded, enable Bluetooth on your smart device. Connect the Happy Lighting App to the LGT-330 controller per the device’s Bluetooth instructions.

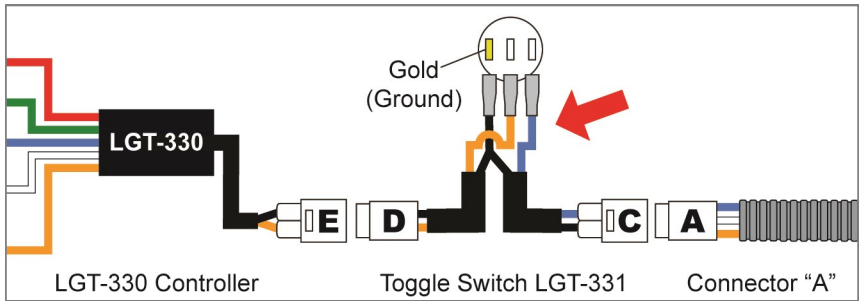
Independent ON/OFF Toggle Switch for Accent Lighting (LGT-331 Required)

1. If installing the ON/OFF toggle switch with Connector “B”, place it in line between Connectors “B” and “A” as shown at the top of Page 11.

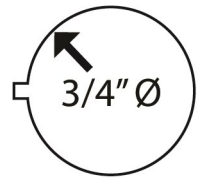
If installing the ON/OFF toggle switch with LGT-330 controller, skip to Step 2.



2. If installing the ON/OFF toggle switch with the LGT-330 Bluetooth Controller, place it in line between Connectors "E" and "A".



3. Find a convenient location on the dash to mount the toggle switch. Mark the center of the mounting location with a marking device.
4. Drill a 3/4" hole at the marked location. File any rough edges. Use a small file to make a small notch on the left side of the mounting hole. This notch will align with the raised line on the left side of the toggle switch to prevent the switch from rotating.
5. Disconnect the wires from the toggle switch and insert the switch in the newly drilled hole. Reconnect the leads to the toggle switch as shown in the wiring diagram above.



Headlight Bumper Installation

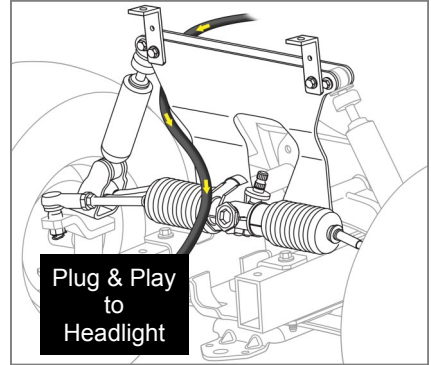
NOTE: Install other accessories before installing the headlight bumper, if applicable.

1. Run the headlight connector on the plug & play harness around the passenger side of the chassis and under the shock as shown on the top of Page 12.

2. Connect the plug & play harness to the (2) 6-pin connectors on the headlight.

NOTE: If installing a T3 turn signal with high low beam capabilities, connect the bullet connector on the headlight to the bullet connector on the plug & play harness to enable the low beam option.

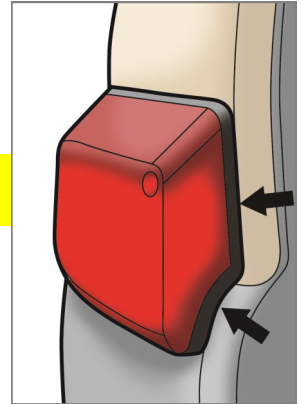
3. Install the headlight bumper using the Original Bumper Mounting Hardware.
4. Reinstall the dash panel using the Original Hardware.



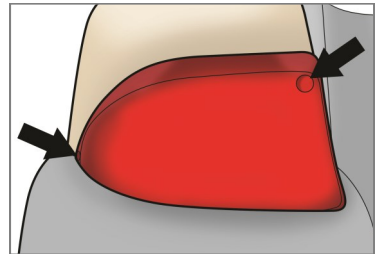
Taillight Installation

1. Connect the taillights to the wire harness leads that were pulled through the holes in the rear body.
2. Test fit each taillight. They should rest on the underbody and align with the edge of the bagwell.

NOTE: Do not expose the double sided tape until the lights are functioning and have been test fitted.



3. Clean the mounting surface with rubbing alcohol. If the taillights fit properly, remove the paper on the double sided tape and mount the taillights on the rear body.
4. Use the Included Screws to further secure the taillights.



Power Connections

NOTE: Complete this section once all lights and optional accessories have been installed. The following diagrams show the batteries in factory configurations. Each

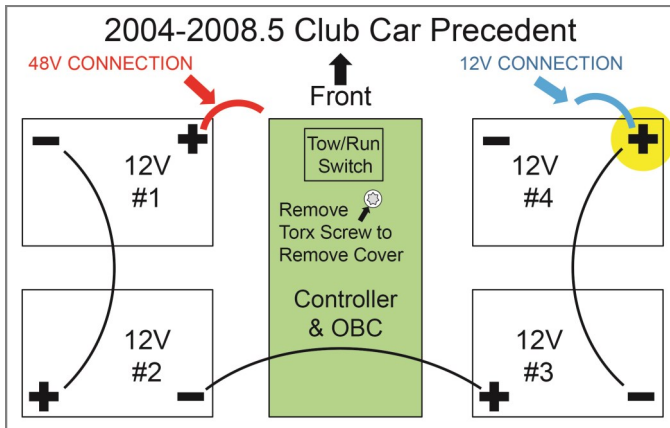
configuration may vary. Test all batteries with a voltage meter prior to installation to determine the output voltage.

CAUTION: This light kit is designed to operate at a DC voltage range of 12-48V. Please be advised that add-on accessories for this light kit may not be rated for any voltage over 12V DC and can be damaged if installed at a higher voltage. A voltage reducer must be used with 12V add-on accessories to avoid damage.

1. Verify the cart is in the TOW position (if equipped) and the key is OFF.
2. Verify any exposed wires and the push-pull switch are not touching the frame or any metal parts on the cart.

Electric Carts 2004-2008.5

1. Remove the controller/OBC cover (shown in green). Retain hardware.
2. Connect the longer side of the fuse harness to the desired positive connection.
3. Under the cover, locate the single 12 gauge blue wire with a female connector on the main harness and connect it to the shorter side of the fuse harness.
4. Secure loose wires with cable ties. Reinstall cover with the Original Hardware.

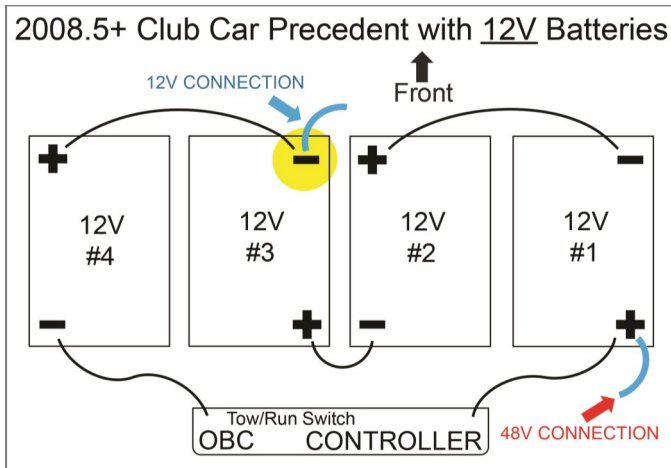


Electric Carts 2008.5+ with 12V Batteries

1. Connect the blue positive lead on the LGT-396 to the desired positive connection. If the factory cables have been replaced, connect the lead with a ring terminal.
2. Connect the black ground lead on the LGT-396 to the ground wire behind

battery #3. The ground will be a 12 ga. black wire with a yellow connector.

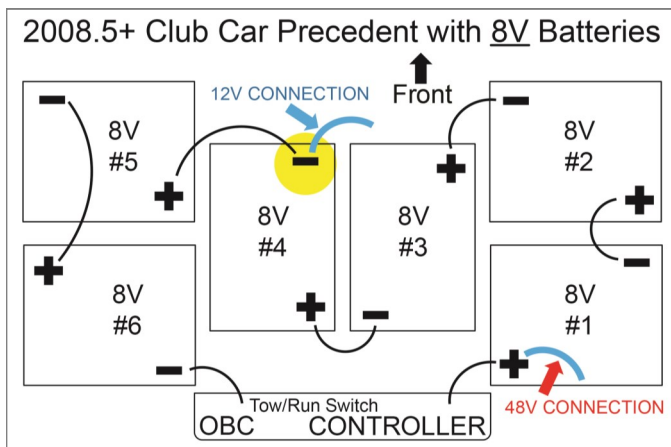
- Secure any loose wires with cable ties.



Electric Carts 2008.5+ with 8V Batteries

NOTE: For 12V output, this battery configuration requires the installation of a voltage reducer (i.e. VOLT-0011) to reduce the voltage from 16V to 12V.

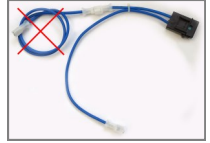
- Connect the blue positive lead on the LGT-396 to the desired positive connection. If the factory cables have been replaced, connect the lead with a ring terminal.



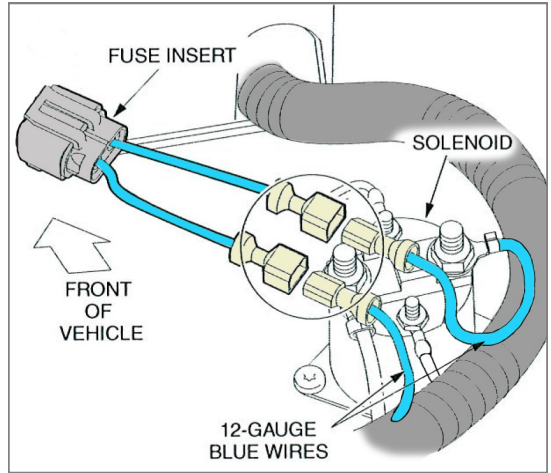
2. Connect the black ground lead on the LGT-396 to the ground wire behind battery #4. The ground will be a 12 ga. black wire with a yellow connector.
3. Secure any loose wires with cable ties.

Gas Carts

1. Remove the extension lead from the fuse harness. Discard.



2. Connect (1) wire on the fuse harness to the 12 gauge blue wire coming off of the solenoid.
3. Connect the second wire on the fuse harness to the 12 gauge wire coming out of the main harness loom near the solenoid.
4. Secure all loose wires with wire ties.



Turn Signal Assemblies



LGT-107A



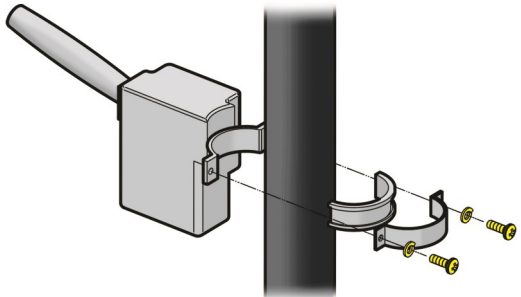
LGT-T2



LGT-T3

NOTE: If installing a steering column cover, do so before installing the turn signal.

1. Mount the turn signal assembly in a convenient location on the steering column using the included collar and one of the included rubber inserts that best fits the diameter of the steering column.



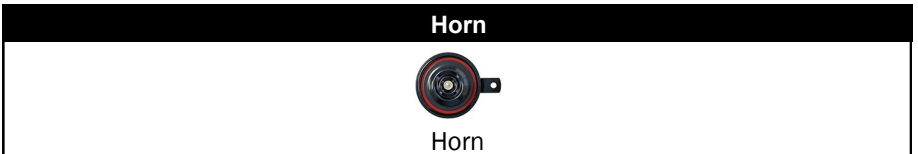
- Remove the jumper harness from the 9-pin turn signal connector.
- Connect the 9-pin connector on the turn signal to the 9-pin on the plug & play harness. If installing a LGT-T3 turn signal, connect the bullet connector on the turn signal harness to the bullet connector on the plug & play harness to enable the low beam function. Connect the flasher relay to the turn signal harness.
- If installing the LGT-T3 turn signal, remove the push-pull switch from the 4-pin connector on the plug & play harness and replace it with the LGT-590 relay.



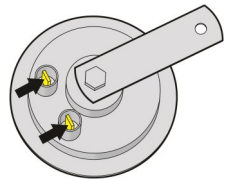
- Measure from the bottom of the turn signal to the dash. Using a utility knife, saw or tin snips, cut the LGT-107A (universal turn signal switch wire cover) to the measured length and sand rough edges.



- Snap the cover around the turn signal wires and the steering column. Secure any loose wires behind the dash.

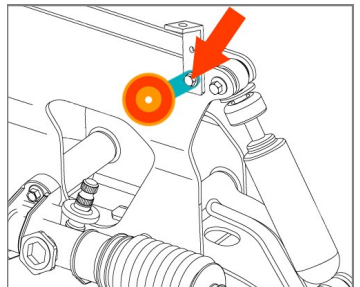


- Connect the (2) spade connectors on the light bar wire harness to the back of the horn on either terminal.



- Mount the horn to the chassis using the Bolt next to the driver side upper shock mount. The horn should face away from the cart and its passengers.

- Secure any loose wires out of the way of moving parts with cable ties.



12 Volt Receptacle and Dual USB Outlets



ACC-0058



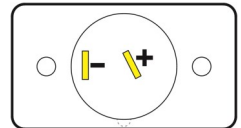
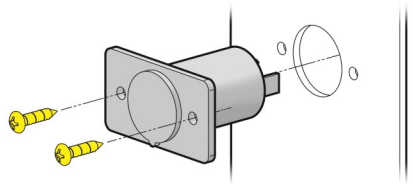
ACC-0097

CAUTION: 12V Outlets are designed for 12V operation ONLY. Operating at a voltage higher than 12V will damage accessories plugged into the outlet.

1. Find a convenient location on the dash or center compartment to mount the 12V receptacle and/or USB outlet.
2. Mark the center of the mounting location with a marking device.

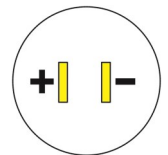
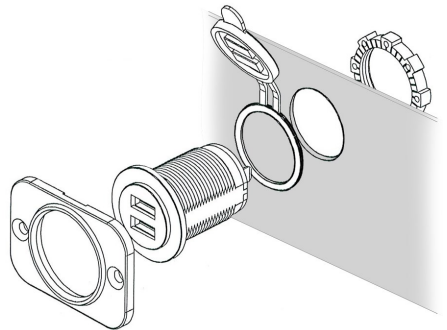
ACC-0058 12 Volt Outlet

1. Drill a 1" hole at the marked location.
2. Insert the 12V receptacle into the hole and mount it with the Included Hardware.
3. Connect the +/- 12V outlet leads on the light kit harness to the +/- 12V terminals on the back of the ACC-0058.



ACC-0097 Dual USB Outlet

1. Drill a 1-1/8" hole (maximum size) at the marked location.
2. Insert the outlet through the protective cap and into the mounting area. Secure it with the retaining nut. Mount the flat panel cover over the outlet (not required) using the Included Screws.
3. Connect the +/- 12V outlet leads on the light kit harness to the +/- 12V terminals on the back of the ACC-0097.



NOTE: A fuse holder (ACC-0019) and 15A fuse (ACC-0021) are recommended if direct connecting the USB ports to a 12V battery or voltage reducer.

Brake Light Switches



LGT-B1



LGT-B4



LGT-B9

All Brake Switches

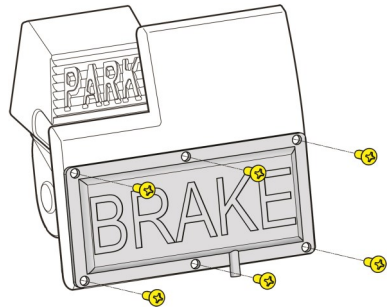
1. Verify cart is in TOW position (if equipped), key is OFF and wheel is chocked.
2. If installing a brake switch without a turn signal, switch the (2) 2-pin male connectors on the jumper harness located on the turn signal connector. Leave the jumper on the harness.



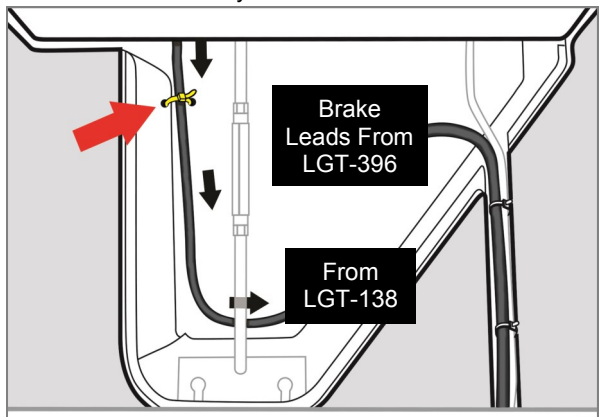
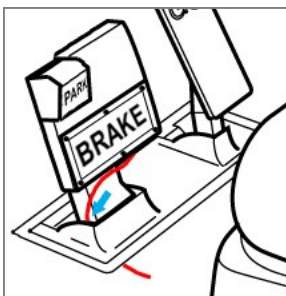
LGT-B1 (LGT-138) Brake Pad Light Switch, Universal Fit

1. Lock the brake pedal and center the brake pad on the lower portion of the brake pedal assembly.
2. If mounting the switch using the Included Screws, fasten the pad directly to the pedal.

If mounting the switch using the Included Rivets, mark the hole locations and drill (6) 3/16" holes through the pedal. Mount the pad with the rivets.

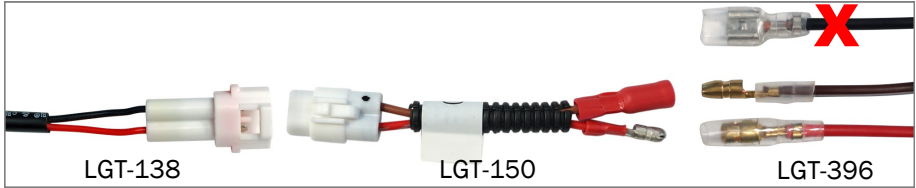


3. With the brake pedal in PARK, run the wire from the pad down the left side of the pedal and into the pedal compartment. Keep the wire close to the driver side so it does not get pinched.
4. Drill (2) small holes in the pedal compartment close to the driver side (red arrow). Secure the LGT-138 wire out of the way with a cable tie.



5. Connect the brake pad lead to the LGT-150 sub-harness. Connect the LGT-150 to the brake leads from the bucket harness (LGT-396 or OE harness). Use cable ties to secure loose wires away from any moving parts.

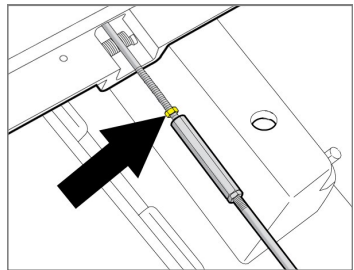
NOTE: Black ground wire is not used with the LGT-B1. The ground wire is only used with a time delay.



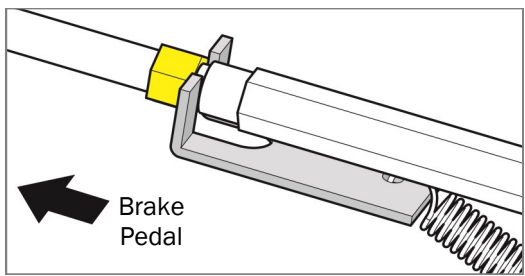
6. Reinstall pedal group access panel, floor mat, lower body trim and receptacle cover using the Original Hardware.

LGT-B4 (LGT-644) Linkage Activated Brake Switch with Time Delay

1. Loosen the front most nut on the brake rod.

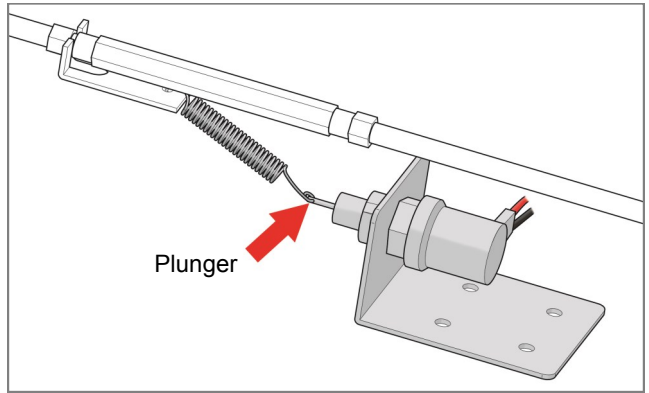


2. Slide the small brake switch bracket upward, between the nut and rod. Tighten the nut. Disengage the brake pedal.

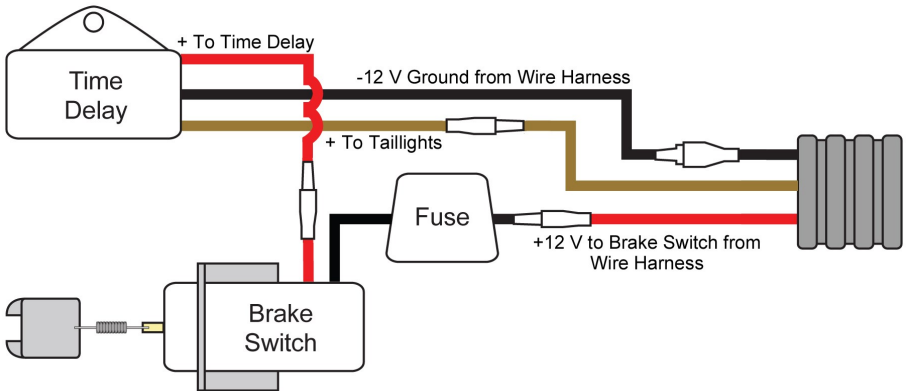


3. Mount the brake switch towards the rear of the pedal compartment with the included Self-Tapping Screws. Position the switch so the spring is tight but not pulling the plunger (red arrow, Page 20). The plunger should move to activate the switch when the brake pedal is engaged. Unscrew the rear portion of the switch if needed for clearance.

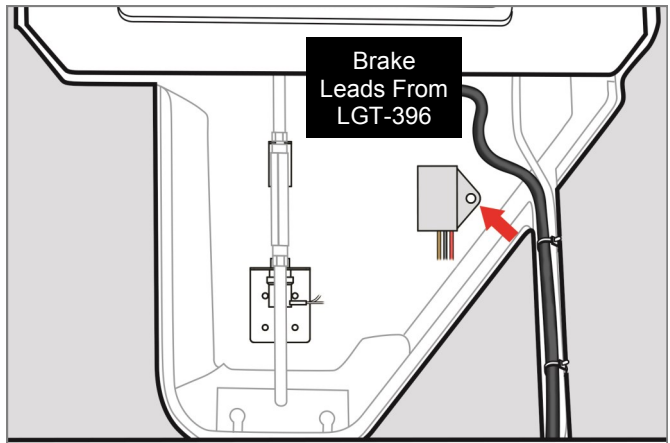
- Run the brake switch wires under the brake rod towards the passenger side of the cart.



- Connect the brake switch to the time delay and the bucket harness (OE or LGT-396) as shown in the diagram below:



- Secure the time delay, LGT-142, to the right side of the pedal compartment with a self-tapping screw or cable ties (red arrow).

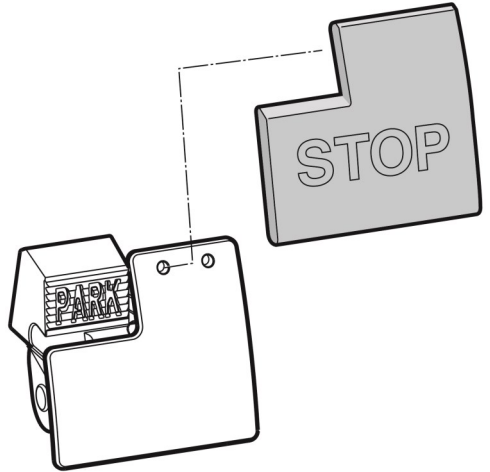


7. Use cable ties to secure loose wires away from any moving parts.
8. Reinstall pedal group access panel, floor mat, lower body trim and receptacle cover using the Original Hardware.

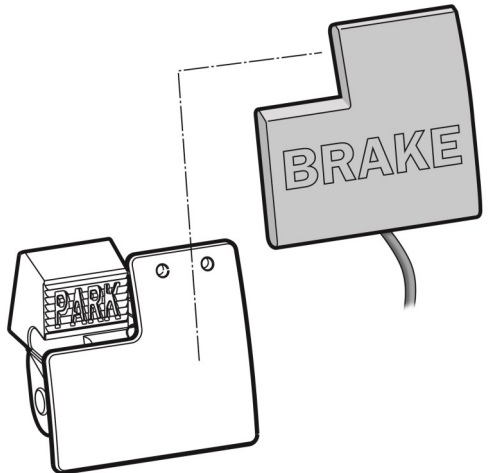
LGT-B9 Brake Pad Light Switch, OE Fit

1. Remove the OE brake pad by gently pulling it away from the pedal.

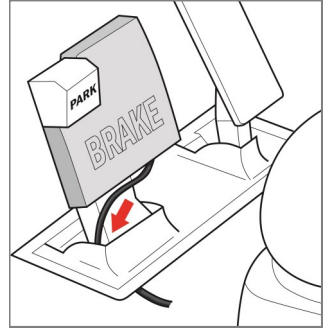
NOTE: If saving the OE brake pad for future use, use caution not to tear the rubber alignment pins.



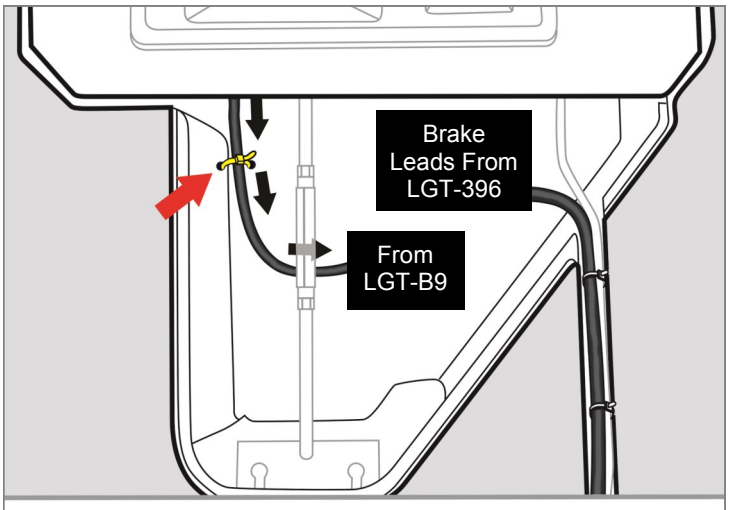
2. Reinstall the new brake pad by fitting it over the plate where the OE brake pad was removed.



3. With the brake pedal in PARK, run the wire from the pad down the left side of the pedal and into the pedal compartment. Keep the wire close to the driver side so it does not get pinched.

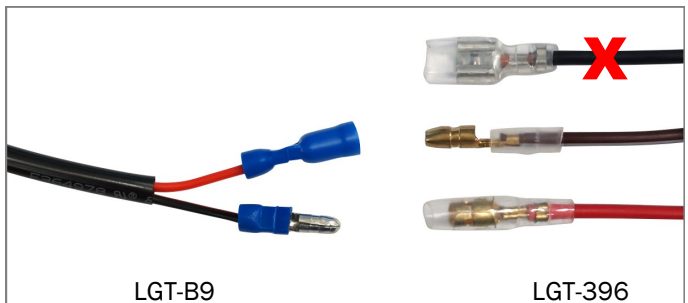


4. Drill (2) small holes in the pedal compartment close to the driver side (red arrow). Secure the LGT-B9 wire out of the way with a cable tie.



5. Connect the brake pad to the brake leads from the bucket harness (LGT-396 or OE harness). Use cable ties to secure loose wires away from any moving parts.

NOTE: Black ground wire is not used with the LGT-B9. The ground wire is only used with a time delay.



6. Reinstall pedal group access panel, floor mat, lower body trim and receptacle cover using the Original Hardware.



Your Precedent Light Kit is now complete.
Please enjoy safely!

Scan QR code or use the link below to view the installation video.
<https://vimeo.com/user39935056>



