



LGT-412L
E-Z-Go Express
LED Headlights with RGBW Accent Lights
Installation Instructions



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 a 12V operation only. Operating this kit at a higher voltage will void any and all warranties. Look behind each drill location BEFORE YOU DRILL. Installer is responsible for damage (i.e. drilling into a wiring harness, battery, fuel tank etc.).

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Headlight Hardware



Contents of LGT-402L Hardware Kit		Qty.
a	No. 14 x 3/4" Hex Head Blunt Self Tapping Screws	2
b	No. 14 x 1/2" Hex Head Blunt Self Tapping Screws	6

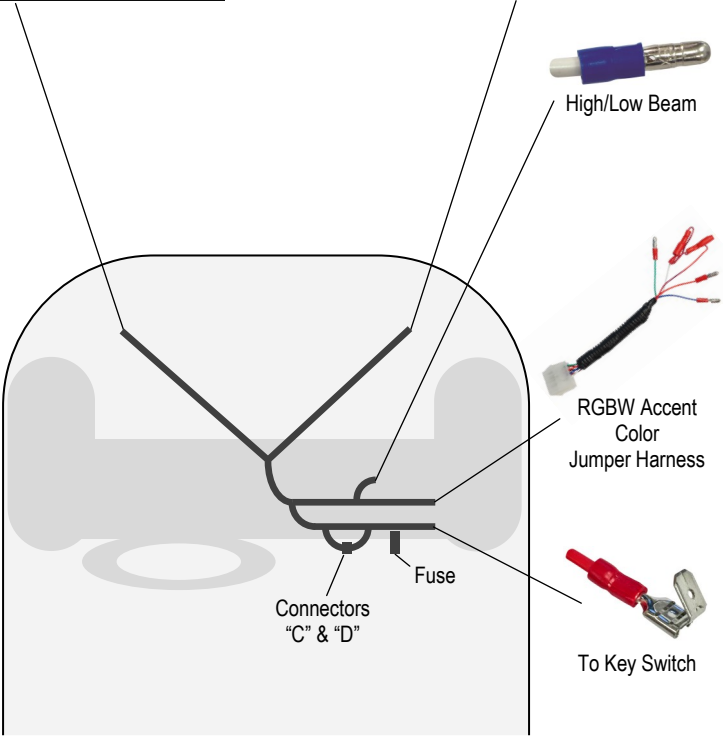
Tools Needed for Installation

- Screwdriver (Phillips & Flat Head)
- Center Punch
- Socket & Ratcheting Wrench (3/8")
- Drill & Hole Saw (3/4")
- Rivet Gun

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.

Wire Harness Overview

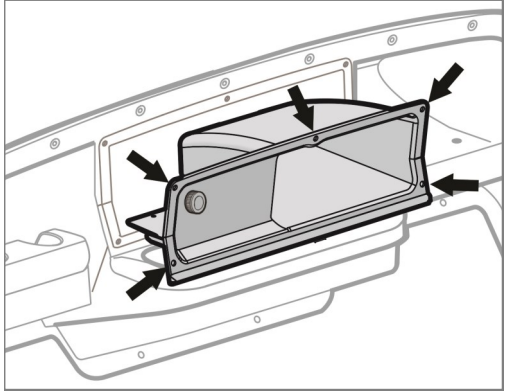


Harness Installation

1. Access the area behind the key switch.

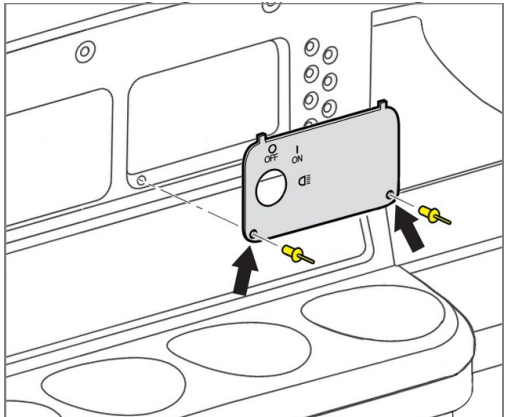
Carts with Center Compartment:

Remove the center compartment from the dash by removing the (5) screws. Use caution not to damage any wires.

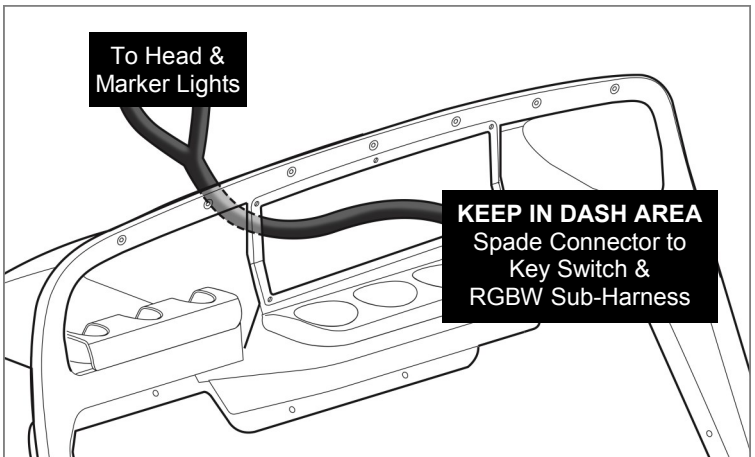


Carts with Key Switch Plate:

Remove the (2) rivets on the key switch plate and remove the plate. Use caution not to damage any wires.

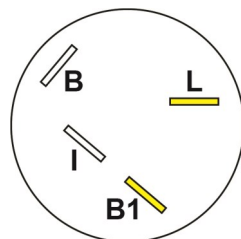


2. Route the headlight connectors through the opening in the dash and towards the headlights, keeping the other connections near the key switch.



- Place the cart in RUN with the key OFF.
- Use a voltage meter to determine which terminal on the back of the key switch ("B1" or "L") is not energized when the key is OFF.

NOTE: "B1" and "L" are the terminals that control the lights. Terminals "B" and "I" control the key switch.



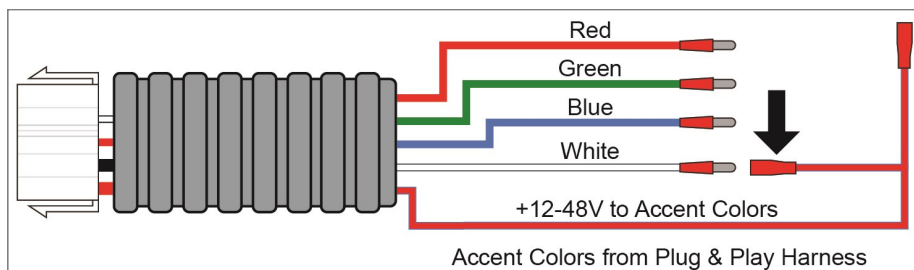
- Place the cart in TOW with the key OFF.
- Unplug the OE lead connected to the terminal found in Step 4 and connect it to the piggyback spade connector labeled "To Key Switch" on the light kit's harness. Connect both leads to the non-energized terminal found in Step 4.



Accent Lighting Options

Single Color Accent Lighting (Out of the Box)

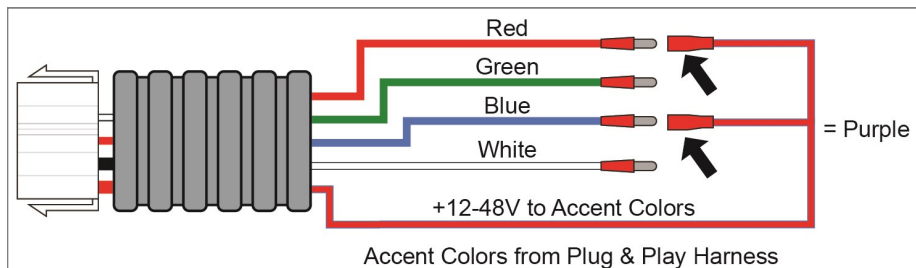
- For WHITE accent lighting only, configure the plug & play harness as shown.
Cover the un-used male bullet connectors with electrical tape to protect them.



- 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).
Cover the un-used male bullet connectors with electrical tape to protect them.

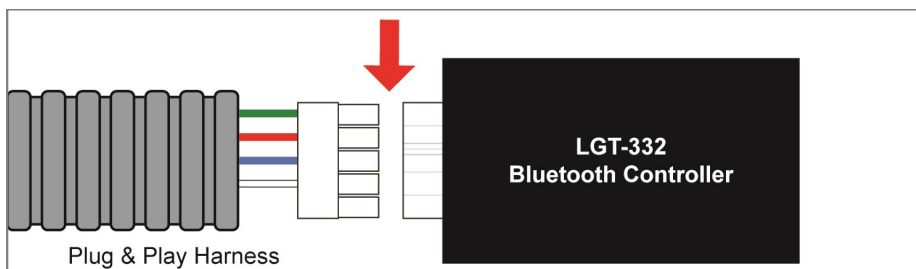
2 Color Combination Accent Lighting

- For two color combination accent lighting, connect the (2) female bullet connectors to any (2) of the RGBW color wires (RED, GREEN, BLUE or WHITE) for a single combined color (i.e. RED + BLUE = PURPLE) as shown on Page 6.
- Cover the un-used male bullet connectors with electrical tape to protect them.



Multi-Color Combination Accent Lighting (LGT-332 Controller Required)

1. Remove the RGBW jumper harness from the plug & play harness and replace it with the LGT-332 Bluetooth Controller.



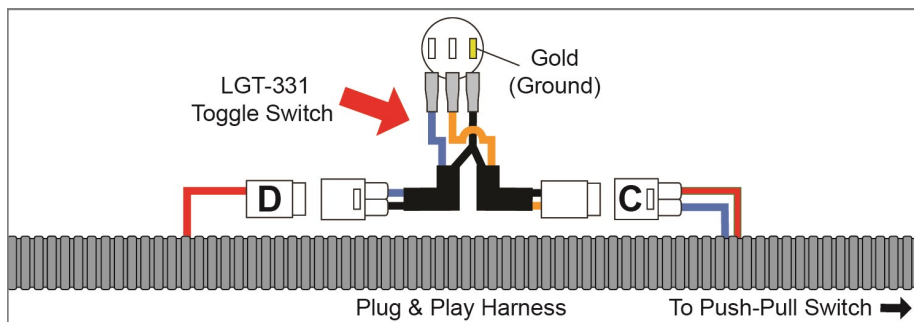
2. Download the “Magic Lumen” App on a smart device by scanning the QR code or searching for it in the App Store.



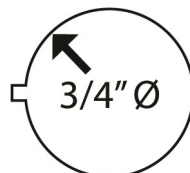
3. Once downloaded, enable Bluetooth on your smart device. Connect the Magic Lumen App to the LGT-332 controller per the device’s Bluetooth instructions.

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

1. Locate the white 4-pin connectors near the push-pull switch and separate them.
2. Connect the ON/OFF toggle switch between the (2) white connectors as shown on Page 7.
3. Find a convenient location on the dash to mount the toggle switch. Mark the center of the mounting location with a marking device.



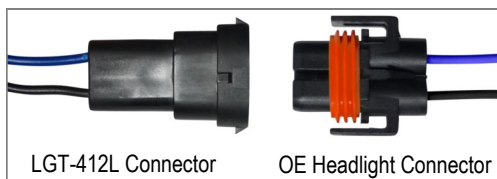
4. Drill a 3/4" hole at the marked location. File any rough edges. Use a small file to make a small notch on the left side of the mounting hole. This notch will align with the raised line on the left side of the toggle switch to prevent the switch from rotating.



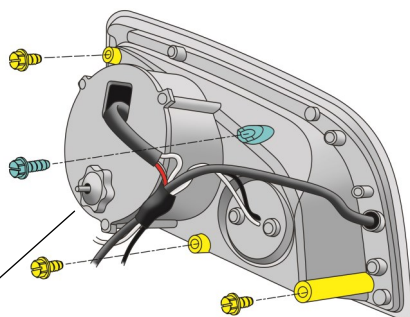
5. Disconnect the wires from the toggle switch and insert the switch in the newly drilled hole. Reconnect the leads to the toggle switch as shown above.

Headlight Installation

1. Connect the driver side headlight to the driver side headlight 3-pin connector and the 6-pin accent lights connector.
2. Connect the black connector on the light kit's harness to the OE driver side headlight connector.



3. For constant low beams, connect the bullet connectors on the back of the headlight together.
4. Install the headlight to the front cowl using (1) 1/4"-20 x 3/4" Hex Head Self-Tapping Screw (shown in blue) and (3) 1/4"-20 x 3/4" Hex Head Self-Tapping Screws (shown in yellow).



Turn to Adjust
Headlight Position

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

