

V:C

MADJAX

Installation Instructions for:

LED ULTIMATE LIGHT KIT PLUS #02-059

LED ULTIMATE LIGHT KIT PLUS- WITH RGB #02-102

Will fit E-Z-GO® S4®



ITEMS INCLUDED

Front and Rear lights
Wiring harness
Rocker switch
Turn Signal
Brake Switch
Horn
USB port
Converter
Column Cover
RGB Module (02-102)

TOOLS NEEDED

Phillips Head Screw Driver
Cutting Tool
Sandpaper
Power Drill
15/32 Drill Bit
10mm Deep Well Socket

Control box features:

- 30 second turn signal timer
- Eliminates flashers/ Relay
- Brake Lights Automatically turn off after 3 minutes of setting parking brake.

RGB Module controlled by
Happy Light App



iOS7.0 & Android 4.3

We recommend professional installation. If you choose to not have this product installed by a professional, we highly recommend that you exercise caution, care, and patience when installing this product.



Important: Any modifications made to the wiring harness or lights in this kit will void the warranty. Any damages that occur to the kit or cart will be the sole responsibility of the installer.

ATTENTION: The Instructions for this Ultimate Plus Light Kit & RGB Light Kit are identical

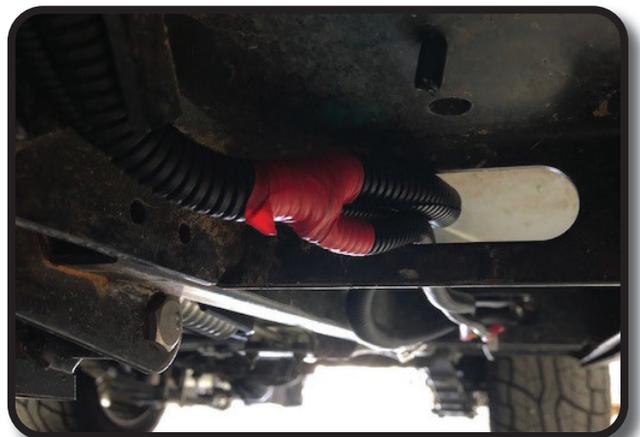
STEP 1

Switch key to OFF position. Place TOW/RUN switch to TOW. It is not required to remove the batteries but you do need to disconnect the main negative.

STEP 2

If needed lift cart and place jack stands under frame to support. Feed the headlight portion of the harness down through the front of the battery compartment. Route the wiring harness through the holes in the frame on the **Driver's side**. Run (red) tail light wire around battery compartment and over the rear tire well on the passenger's side. Run short tail light wire (white) over the rear tire well on the driver's side. Loosely secure with zip ties until all lights are installed.

Red 3 pin connector's are for the passenger's side, white connector's for driver's side.



STEP 3

Remove factory headlight hardware from the behind the cowl. Retain hardware.



STEP 4

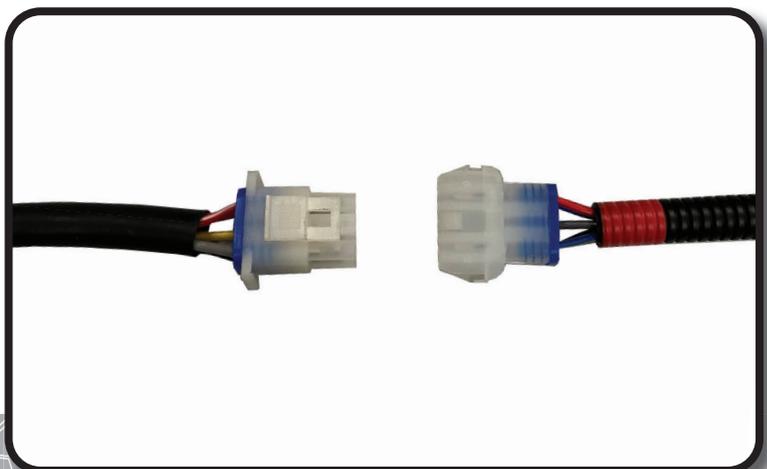
Disconnect factory headlight wiring harness from headlight.



STEP 5

Plug in 6 pin connector from headlight to 6 pin on harness.

NOTE: Red connector for Passenger side

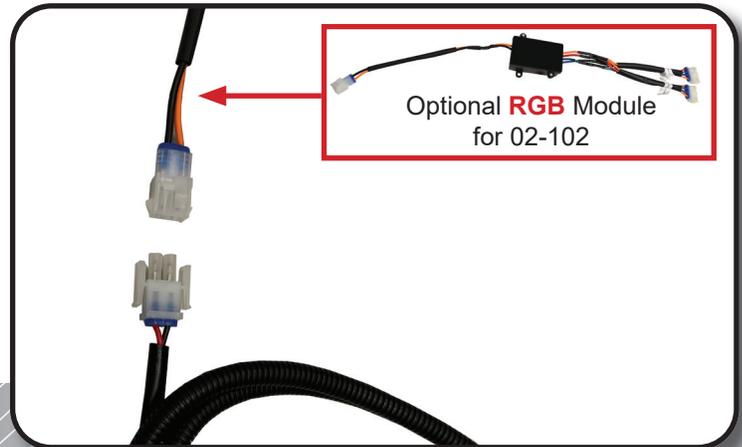


OPTIONAL RGB MODULE INSTALL FOR 02-102 ULTIMATE PLUS RGB LIGHT KIT

ATTENTION: For Ultimate Plus Light Kit Instructions (02-097), Skip to Step 6.

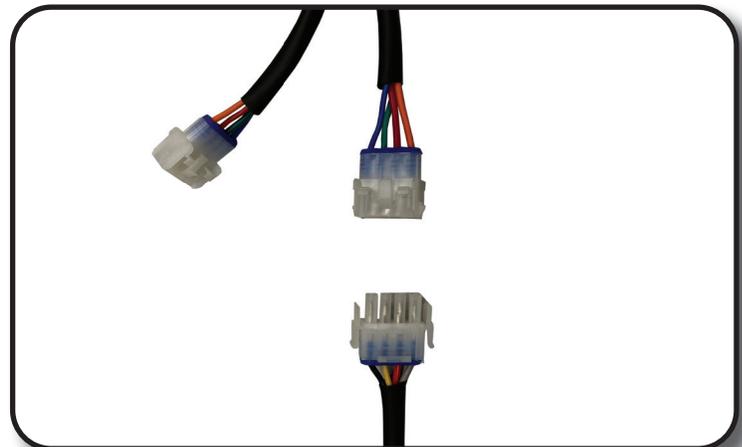
STEP A

Connect the 2-Pin Connector from RGB Module to the Light Kit Harness.



STEP B

Connect the 4-pin Connector from RGB Module to the Headlight.



OPTIONAL RGB MODULE INSTALL COMPLETE

STEP 6

Reinstall headlights using retained hardware. For help with installing the Push Nuts use a socket to push them down tight.

*Repeat process on opposite side.



STEP 7

Tail Light Replacement

Remove factory tail light hardware. Retain hardware. Disconnect factory tail light wiring harness from tail light.



STEP 8

*For carts without a pre-cut hole:

Align Tail Light template to the body contour as shown. Be sure to use alignment references for proper placement. Use a marking pen to trace the inside line.

Next drill a pilot hole so you will have a starting point and then begin cutting. Be sure to drill and make cuts to the inside of the line. *Use sandpaper to smooth edge.

***Flip template over and repeat process on other side.**



STEP 9

Feed the tail light harness through the back of the cart. Attach rear tail light wire harness as shown. Secure wire with ties.



STEP 10

Install new tail lights using retained hardware.

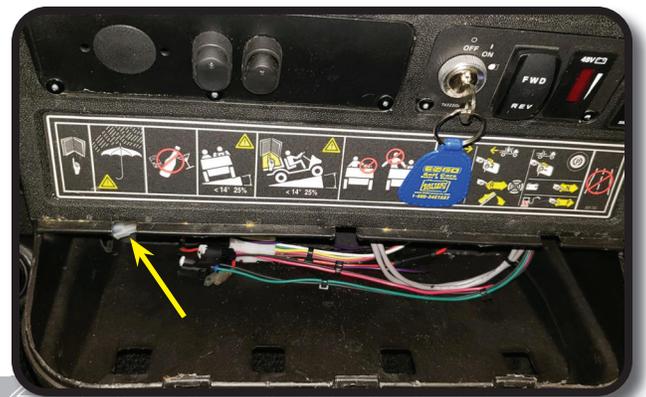
Repeat steps 7-10 on opposite side.



STEP 11

Gently pry cup holder from the dash for wire access.

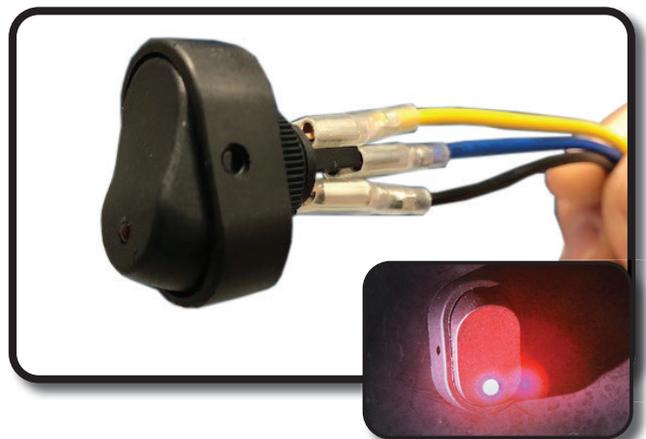
Drill $1\frac{1}{8}$ " hole as indicated by arrow in order to pull wiring harness up to the instrument panel.



STEP 12

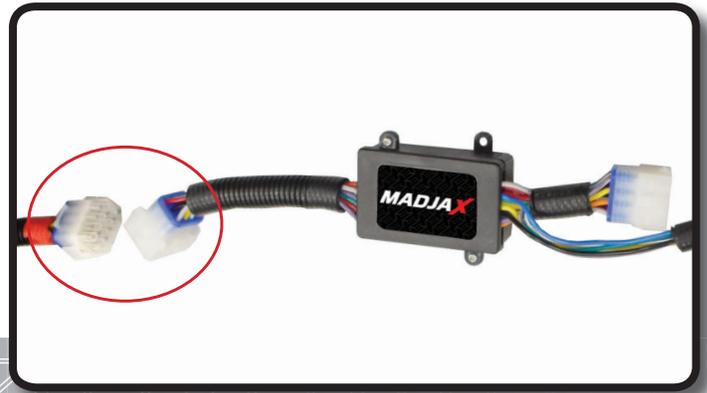
Find a desired location on your dash to mount the hazard switch. Ensure the location is free of obstacles and will not affect dash reattachment. Using a $15/32$ " bit, drill a mounting hole and insert switch into dash. Secure with the ring nut from back of switch.

Reattach wires: Black behind led, Blue on center post, and Yellow on top post.



STEP 13

Plug in the 12 pin connector from the main harness to the 12 pin connector on the turn signal module secure module behind dash.

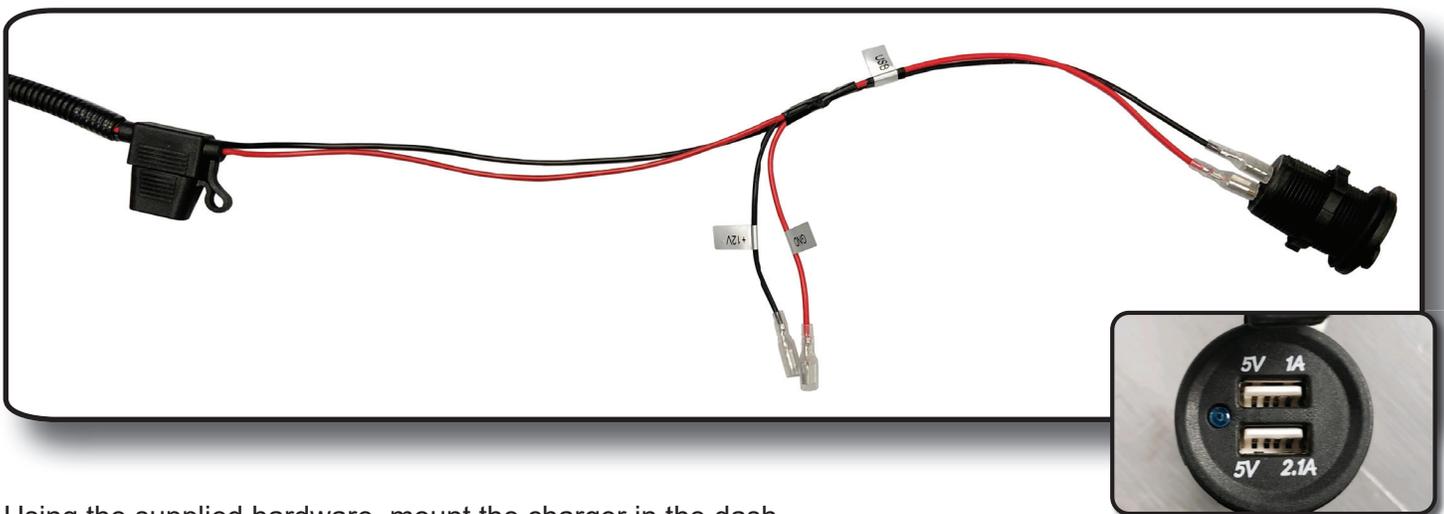


STEP 14

Using a 1 1/8" paddle bit, find a desired location on your golf cart dashboard to mount your USB charger. Ensure your location is free of obstacles and will not affect dash reattachment.



STEP 15



Using the supplied hardware, mount the charger in the dash.

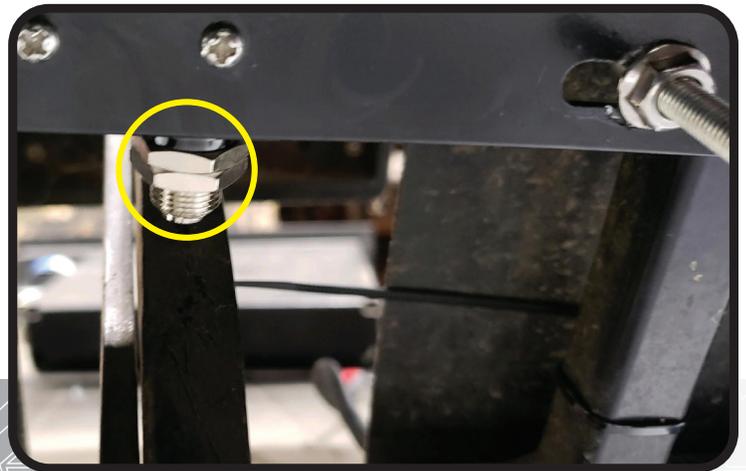
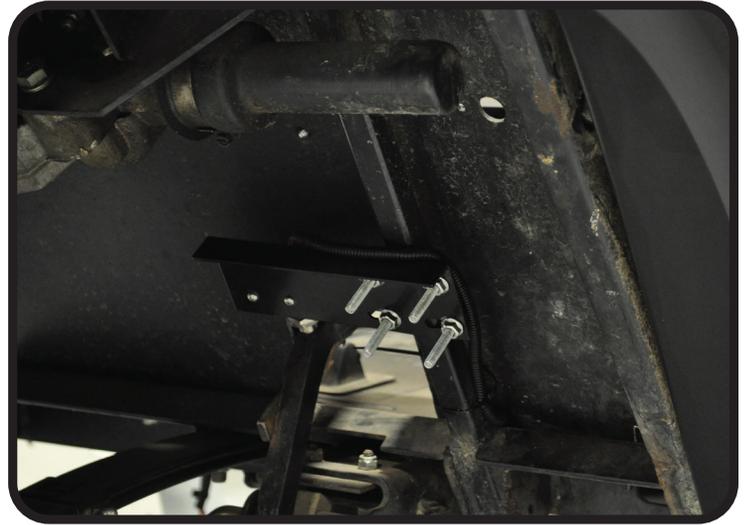
Plug the red and black 12 volt accessory connection from the light kit harness to the spade terminals on the back of the charger (red to positive and black to negative).

STEP 16

Put the supplied u-bolts behind the floor frame member next to the brake pedal. Align the brake switch bracket with the 90 degree flange facing the front of the cart and the switch button facing down. Make sure the 4 threaded ends of the u-bolts go through the slotted holes in the bracket and hand tighten the nuts. Do not fully tighten at this time. Slide the bracket sideways so that the button of the brake switch is centered on the brake pedal arm. Slide the bracket down until you hear the switch click. Tighten all the nuts.

Plug the 2 bullet connectors from the brake switch into the corresponding bullet connectors on the light kit harness. Secure all wiring so that it is away from moving parts.

Tighten all wire ties under cart to secure harness.



STEP 17

Turn Signal Install

Mount indicator assembly using clamps provided and tighten. Run indicator harness along steering column and insert harness through dash.

Note: You may have to cut a small hole in dash cavity to feed connectors into dash.

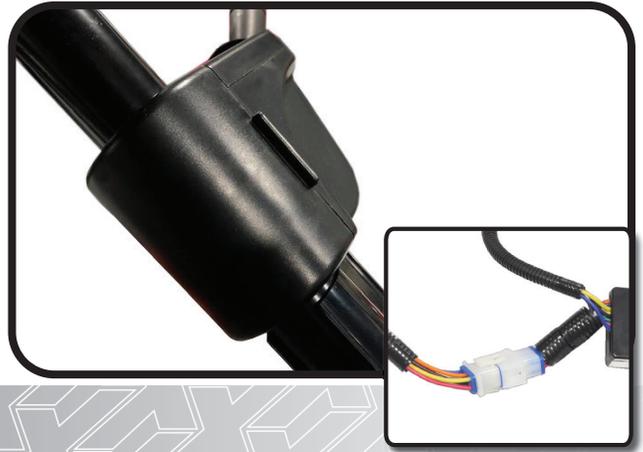


STEP 18

Attach turn signal back cover to turn signal assembly.

Attach column cover to steering column, secure harness in column cover void.

Plug in the Turn Signal harness to the Control Box harness as shown.



STEP 19

Attach horn to purple and black female spade connectors and secure horn to metal framing under the front cowl using supplied hardware.

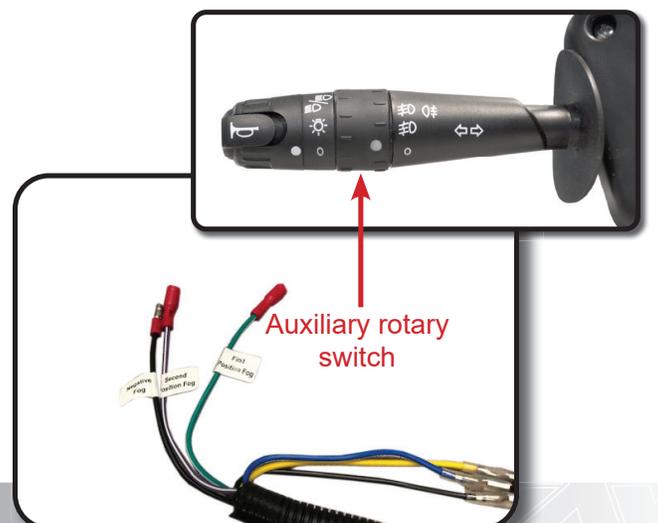


STEP 20 *Auxiliary Switch Feature*

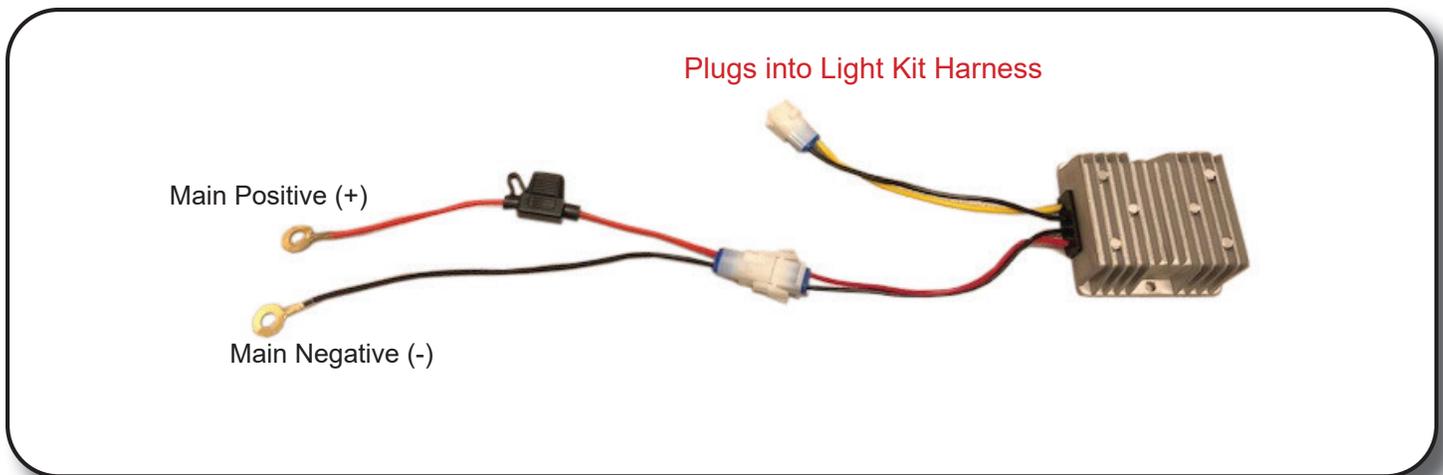
The turn signal handle has a secondary, 2-position rotary switch for auxiliary 12 volt lighting.

There is one common negative wire and two positive wires to run two different sets of auxiliary lighting. Additional wiring and lighting not included.

Reattach dash using retained hardware.



STEP 21



The voltage converter included must be used on all carts electric and gas. Connect the red wire with the fuse to the main positive terminal of the battery pack. Connect the black wire to the main negative terminal of the battery pack and tighten hardware.

Mount the converter to a flat surface under the seat. (Metal area is preferred). Plug the connector with the yellow and black wire into the light kit harness (you will notice a small arc when connecting). Reconnect battery and place run/tow switch to run.

****Use converter on gas carts to prevent Starter Generator voltage spikes that could cause damage to accessories.***

INSTALLATION COMPLETE

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