



JEEP JL/JT 9INCH 75WATT LED HEADLIGHT WITH RGB ACCENT + AMBER TURN SIGNAL

BLACK
QTE9103
2PCS PER SET
VER: 20-1



INTRODUCTION

Thank you for purchasing our LED replacement headlights and improving the safety of your vehicle and the safety of the occupants inside! We have designed these LED replacement headlights to be as easy as possible to install. At Quake LED, we always suggest you leave it to the professionals and have a qualified Quake LED technician install and aim your new headlights into your vehicle.

Quake LED replacement headlights will only operate on 12 Volts DC! Most passenger and off-road vehicles are 12 Volts DC, but if you plan to install these in your grandfathers M1 Abrams Tank, you should check the operating voltage before doing so.

If you are feeling up to the task and willing to spend removing the stock headlights, please read onward.



Record Headlights and Bluetooth RGB Controller serial no. here _____

WARNING: Read all instructions and warnings before installing and using.
INSTALLER: This manual must be delivered to the end user of this equipment.



- PARTS INCLUDED:** (left to right)
- 1x Passenger 75W RGB Headlight
 - 1x Driver 75W RGB Headlight
 - 1x One to Two RGB Y Splitter Extender
 - 6x Flat Washers
 - 1x Bluetooth RGB Controller
 - 4x Wire T-Taps/Connectors
 - 2x Fender DRL Light Wire Harness Adaptor



UNPACKING and PRE-INSTALLATION

Carefully remove all the components and place it on a flat surface, taking care not to scratch or damage it. Examine for any visible damage caused by shipping and report any damage to the carrier and keep the shipping package. Take a good look at all the components and the wire diagram so you are familiar with it before opening the hood.

TOOLS NEEDED

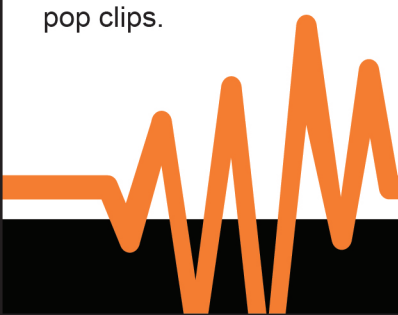
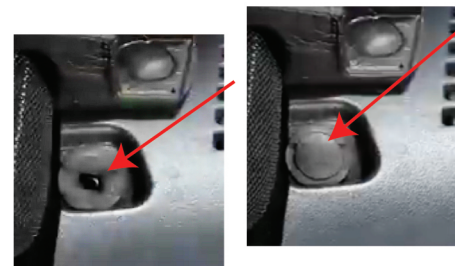
- Flat Head Screw Driver
- Nylon Panel Removal Tool
- Ratchet
- Ratchet Extension
- 10mm Socket
- Pliers

Your Quake LED JL/JT headlights come standard with high/low beams (duh) and also feature RGB Accenting and Amber Turn Signals. We advise to take advantage of these great features and use them.

Keep in mind that you should route any wires that is safe, dry and clear of moving or rotating parts or any excessive heat sources. Excessive or prolonged heat can damage the protection wire loom leading to wire chaffing that could break wires and cause a short circuit. We have weatherproofed the RGB Controller unit to withstand small amounts of water. We recommended that you place the RGB Controller unit far away from heavy water areas such as the windshield wiper/roof drain areas.

PROCESS

Step 1. Open the hood and remove the double stage plastic pop clips that run along the top edge of the grill and holds the grill together. With your nylon panel removal tool or flathead screwdriver. Place the head of the tool under the pop clip head and gentle pry up a little. Use your fingers to take out the top section of the pop clip. Gentle pry up the grill plastic with your hands to loosen the lower section of the pop clip. Then work your way down the line to pop out all 6 pop clips.



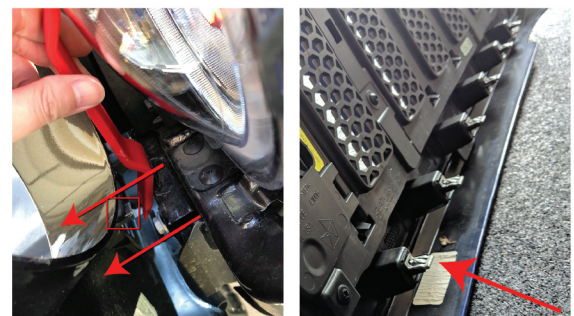
— LIGHT UP THE DARKNESS —



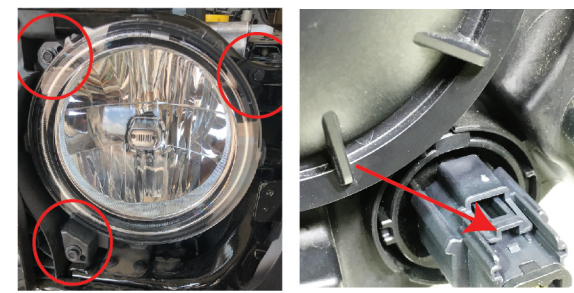
JEEP JL/JT 9INCH 75WATT LED HEADLIGHT WITH RGB ACCENT + AMBER TURN SIGNAL

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Step 2. The bottom of the grill is held on by a 6 pressure body clips. Give it a gentle but firm tug on the bottom of the grill towards the front of the bumper with two hands. (You can also use a pry tool to help pop them out like photo 3.) Once the body clips are released you can remove the grill.

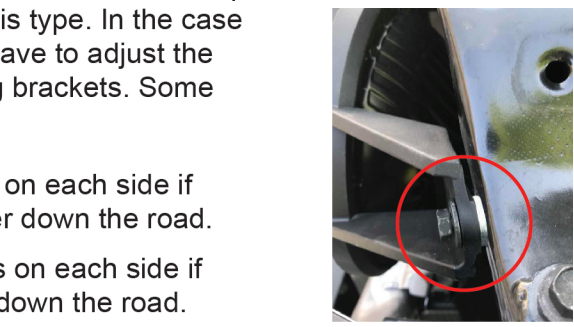


Step 3. Grab your ratchet, extension and 10mm socket. There are three 10mm bolts on the outside of the headlights that need to be removed. You will reuse the bolts later so don't lose them.



Step 4. Pull out the headlights a little and release the main headlight connector by pressing the release tab. The connector will now release from the stock headlight and you can remove the stock headlights from the vehicle.

Step 5. Now we will begin to install your new headlights by positioning the RGB and turn signal wiring behind the headlight as you install them using the stock hardware and our flat washers. Re-install the stock headlight connector into the new headlight and now your H/L beams will work.



Step 6. You need to make sure the beam location is not too high up or too low. Since most Jeeps have at least a 2" lift and 35" tires. We have designed the headlights to fit this type. In the case that you're Jeep is stock and or is 4" lift and 37" tires or more. You MIGHT have to adjust the beam using the included flat washers and locating them under the mounting brackets. Some Jeeps need them and some have not needed any washers.

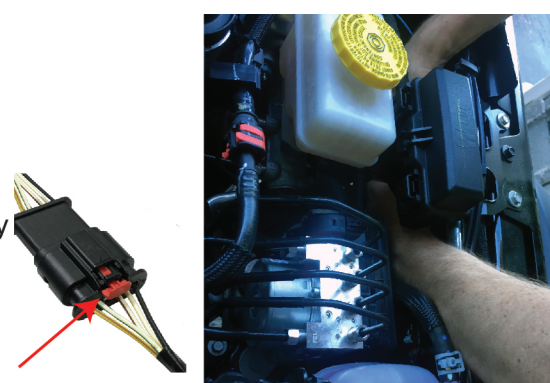


Stock Jeep: Add 1 flat washer under the lower bracket on each side if you want to raise the beam and project the beam further down the road.

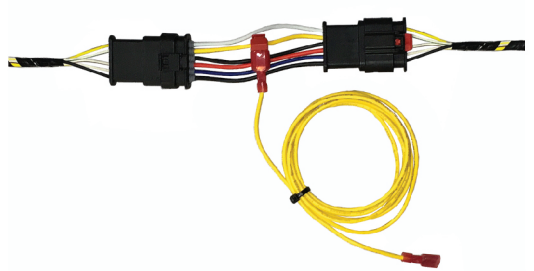
Lifted Jeep: Add 1 flat washer under the 2 top brackets on each side if you want to lower the beam and project the beam less down the road.

Step 7. If you want to hook up the Amber Turn Signals, continue reading. If not you can jump to Step 17 and install the RGB controller.

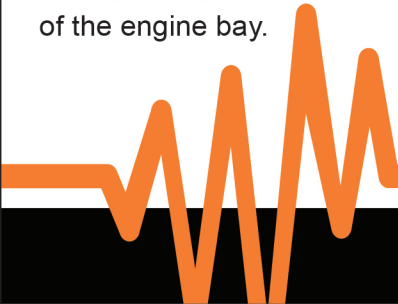
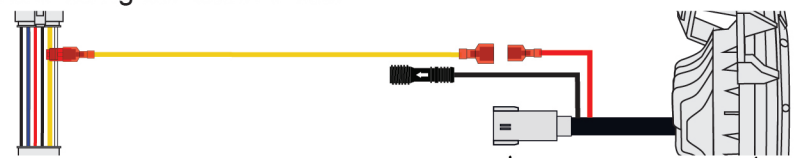
Find the stock drivers side fender DRL light wire harness/plug to access the DRL and Turn Signal input wire. It is possible to access this from the engine bay. Feel for the plug by standing on the drivers side and reaching into the engine bay where the fender liner meets the body. You will find this flat plug about 3/4 of the way up the engine bay/fender. This plug is secured to the body of the Jeep inside the engine bay near the rear of the plastic fender liner. Use a screw driver to remove the plug from the clip that holds it into the body. Once released you can pull the entire connector far enough into the engine bay to get at it to install the our inline wiring harness adapter.



Step 8. To undo the factory connectors, pull out the red tab outward at the end of the connector, then insert a small screwdriver into the connector latch at the end opposite the red tab. This should release the 2 halves of the connector.



Step 9. Plug our inline adapter into the 2 halves of the factory connector and test the fender lights. If they are working correctly, run the long yellow turn signal wire and connect to the headlights red wire at the connector. Secure the 2 connections to the Jeep wiring harness that runs along the driver's side of the engine bay.



— LIGHT UP THE DARKNESS! —



JEEP JL/JT 9INCH 75WATT LED HEADLIGHT WITH RGB ACCENT + AMBER TURN SIGNAL

BLACK

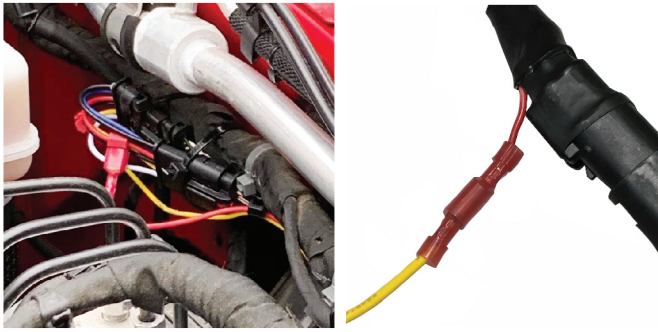
QTE9103



2PCS PER SET

VER: 20-1

QUAKE™ LED



Step 10. Test the turn signal function and complete the installation by using cable ties to secure the wire running back to the headlights. Note, it is unlikely that you will be able to re-attach the factory connector half to the vehicle. Zip it!

Step 11. The passenger side is a little bit more complicated because the factory DRL light wire harness/plug is hidden by the three grounding wires that are secured to the body of the vehicle by the battery. Due to this, **access this from underneath** and by partially pulling back the passenger side inner fender liner. There are 3 plastic clips and 1 bolt that you can remove on the passenger side fender liner to access the plug. When the clips and bolt are removed it is easy to flex the plastic fender liner back over the tire to gain access to the plug. Consider jacking up the vehicle to make this easier.

Step 12. It's recommend to remove the three grounding wires in the engine bay in order to retrieve the plug from inside the engine bay itself once you disconnect it from the clip that holds the plug into the body of the jeep, that way if you ever have to access it again you will not have to peel back the inner fender liner.

To remove the ground wires from the fender next to the battery. Remove the nut held on with 13mm nut. Next remove the nut next to it holding them to the fender with a 10mm wrench. (Be very careful not to drop the nuts)



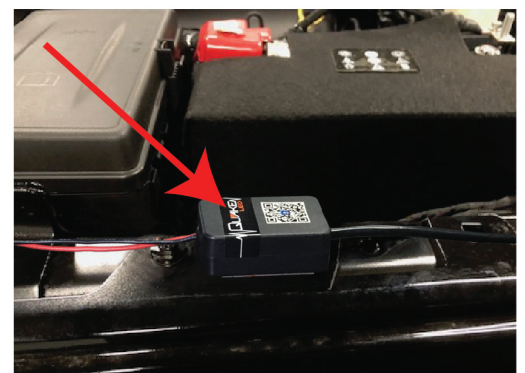
Step 13. This plug is secured to the body of the Jeep inside the engine bay near the rear of the plastic fender liner. Reach up from underneath the fender, find the connector and pull the factory connector loose. Or use a screw driver to remove the plug from the body clip. Once released, you can pull the entire connector far enough into the engine bay to get at it to install the our inline wiring harness adapter.

Step 14. To undo the factory connectors, pull out the red tab outward at the end of the connector, then insert a small screwdriver into the connector latch at the end opposite the red tab. This should release the 2 halves of the connector.

Step 15. Plug our inline adapter into the 2 halves of the factory connector and test the fender lights. If they are working correctly, run the long yellow turn signal wire and connect to the headlights red wire at the connector. Secure the 2 connections to the Jeep wiring harness that runs along the driver's side of the engine bay. Note, it is unlikely that you will be able to re-attach the factory connector half to the vehicle. Zip it!

Step 16. Test the turn signal function and re-attach the fender liner using the bolt and the plastic plugs. Complete the installation by using cable ties to secure the wire running back to the headlights.

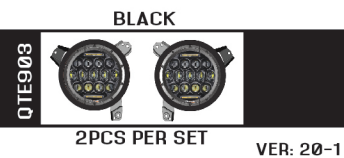
Step 17. Next is to install the Bluetooth RGB Controller. You will want to install the Bluetooth RGB Controller on the passenger side right near the battery on the body frame. **IMPORTANT:** The RGB wires should face towards the **FRONT** of the engine bay. This way you can easily run the main headlight RGB wire forward towards the passenger headlight.



— LIGHT UP THE DARKNESS —



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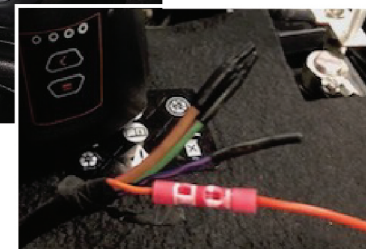
Make sure you add the RGB Y-splitter extender so you can reach the headlights. Once you get to the passenger headlight area.



Continue to route the drivers side RGB wire below the grill area towards the driver headlight area. Remove the 3M red film from the bottom of the RGB Bluetooth Controller and stick the controller to the frame rail.

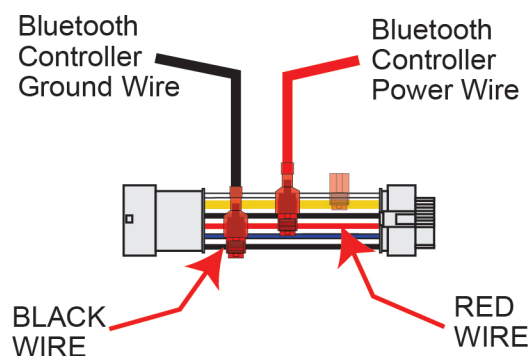
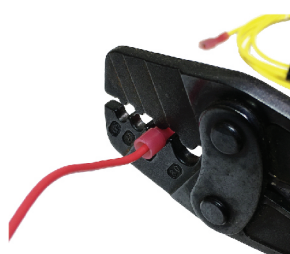
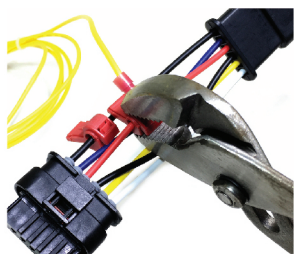


Step 18. You can power the RGB Controller via factory installed Tow Package switch #3 or #4. These have pre-run wires between the passenger fender and the battery. #3 and 4 are 15amp accessory (turns on with the key), perfect for the RGB Controller. The #3 switch is the small pink wire. Crimp the pink wire and the RGB Controller box red power wire.



Step 19. If your JL/JT does not have these aux switches you can tap into the vehicle's Passenger Inline Fender Light Wire Harness Adaptor ONLY if you have headlights connected and no other RGB accenting lights connected to this Bluetooth RGB controller. Adding more RGB accenting lights will overload the circuit and the computer will shut that circuit off.

If you are connecting 1 set of headlights, you can use the supplied Quick Crimp T-Taps & Quick Connectors and tap into the Passenger Inline Fender Light Wire Harness Adaptor. You will want to use standard pliers and crimp the T-Tap into the RED and outer-most BLACK wire on the Passenger Side Fender Light Wire Harness Adaptor. This will provide power to the RGB Controller every time your DRL lights are turned on.



Step 20. Test that all functions work correctly and secure all wires with plastic cable ties. If everything works and the beam is correct. You can reverse process step 2 and 1 to reinstall the grill.

Step 21. Now that you have your new Quake LED replacement headlights installed, wires routed and wire connectors assembled, it's time to download and install the Android or iPhone App in order to control your RGB colors. You will need to use this App to scan for the headlights in order for the App to control the headlight RGB accenting. Scan the QR Code that will work with your smart phone. You will need to use the App to scan for the App to control the lights. You **MUST USE THIS App** and only this App. No other App will work!

Step 22. Once you successfully scan the QR Code, a new window will automatically open and confirm that you want to download the App from the App store. Click yes and allow the app to download to your phone. After successfully downloading the App, turn on your smart phone Bluetooth function and open the App.



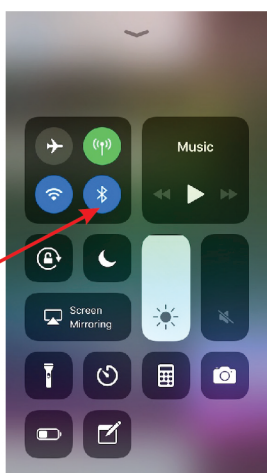
LIGHT UP THE DARKNESS



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BLACK
QTE903 2PCS PER SET VER: 20-1

1 BLUETOOTH ON



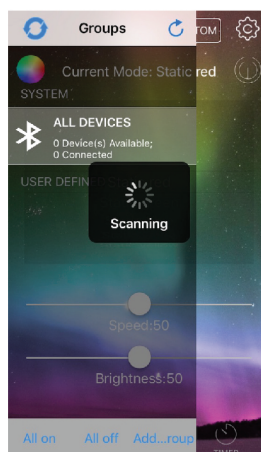
Bluetooth Accent Controller must be switched on

2 TURN APP ON



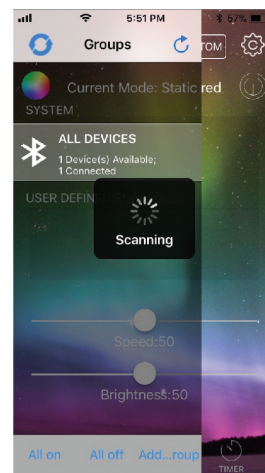
Open the App on your smart phone

3 SCANNING



Wait while it automatically scans for the controller

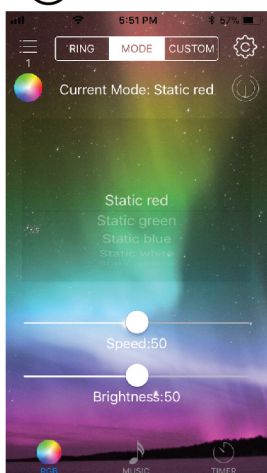
4 CONNECTED



Once found, it will automatically connect

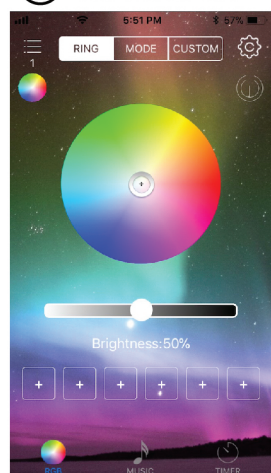
The real fun begins when you have successfully connected the App to the headlights. Now you can pick and choose which colors you want your headlights to accent and you can program your own colors.

6 MODE MENU



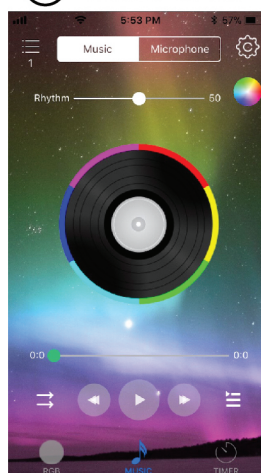
Choose colors, adjust speeds and adjust accent brightness

7 COLOR MENU



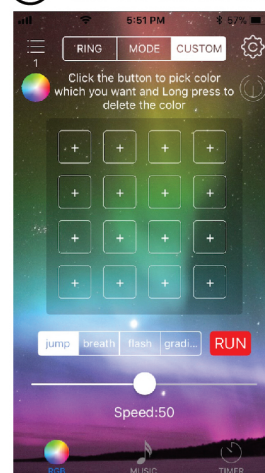
Custom pick your accent color and brightness

8 MUSIC MENU



Sync accent colors to your music

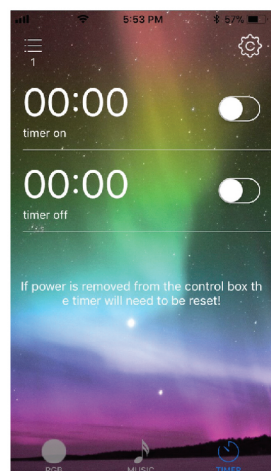
9 DIY COLOR MENU



Create and save your own colors and effects

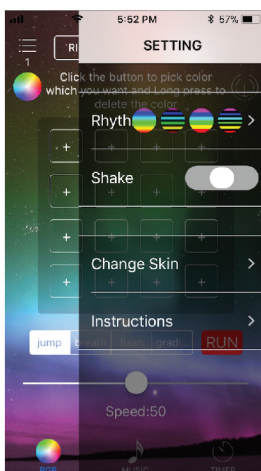
If your controller is wired directly to your battery, use a timer to turn on and off your accent lights.

10 TIMER MENU



Play around with the timer function first and get familiar with the timer setting before leaving your vehicle's accent lights on unattended. (you might come back to a dead battery)

11 SETTINGS



Go to the settings menu to change your skin graphic, pick some flash effects and read more instructions

Enjoy!

LIGHT UP THE DARKNESS



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BLACK

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2PCS PER SET

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WIRE DIAGRAM

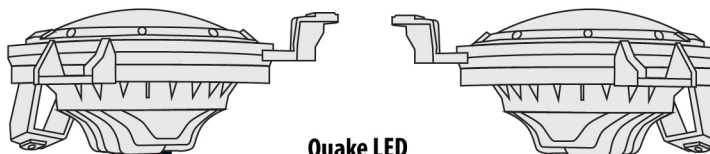


FRONT of JL

DRIVERS SIDE

PASSENGERS SIDE

Align arrows before engaging RGB connectors



Quake LED JL HEADLIGHT CONNECTOR

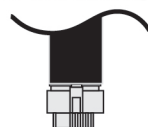
1. DISCONNECT STOCK JL HEADLIGHTS.
2. CONNECT QUAKE LED JL HEADLIGHTS TO THE STOCK JL HEADLIGHT HARNESS

Stock JL HEADLIGHT HARNESS CONNECTOR

YELLOW WIRE DRIVERS SIDE TURN SIGNAL

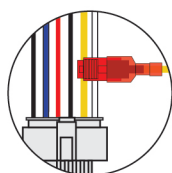
YELLOW WIRE PASSENGERS SIDE TURN SIGNAL

Stock JL Fender Light Turn Signal Connector to stock Fender Light



DRIVERS SIDE QUAKE LED JL FENDER LIGHT WIRE HARNESS ADAPTOR Yellow Wire = Blinker

1. DISCONNECT STOCK JL FENDER LIGHT CONNECTOR.
2. CONNECT QUAKE LED FENDER LIGHT WIRE HARNESS ADAPTOR IN BETWEEN STOCK FENDER CONNECTOR.



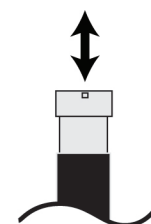
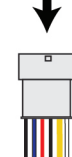
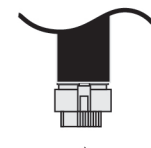
Stock JL Fender Light Turn Signal Connector Wire Harness to JL ECU



RGB Y-Splitter



PASSENGER SIDE QUAKE LED JL FENDER LIGHT WIRE HARNESS ADAPTOR Yellow Wire = Blinker



BLACK WIRE CONTROLLER NEG -12V



RED WIRE CONTROLLER POWER +12V



This manual is just a guide with the intention of showing you the quickest way to install these products on your vehicle. As with any install. There are usually a few ways to install a product and achieve the same result. Each installer has their own experience and ways of getting 'er done.

If any issues are found and or if you have install questions. Please contact and call 1-720-305-8979



LIGHT UP THE DARKNESS