



# 4.5 INCH 30WATT JEEP JL LED FOG LIGHTS WITH ACCENT WIRING DIAGRAM & INSTRUCTIONS

0TE904



2PCS PER SET



## INTRODUCTION

Thank you for purchasing our LED replacement fog lights and improving the safety of your vehicle and the safety of the occupants inside! We have designed these LED replacement fog lights 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 your new LED replacement fog lights into your vehicle.

Quake LED replacement fog lights 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 the time to remove your stock fog lights, please read onward.

Record both of your Fog Lights or 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

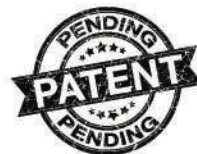
- |                              |                               |                              |
|------------------------------|-------------------------------|------------------------------|
| 1x Left JL 30W RGB Fog Light | 1x Right JL 30W RGB Fog Light | 1x JL Fog Light Wire Harness |
| 1x Bluetooth RGB Controller  | 1x 1 to 2 RGB Y Splitter      |                              |

## 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 so you are familiar with them before opening the hood.

## TOOLS NEEDED

- Nylon Panel Removal Tool (or flat head screwdriver)
- Socket wrench (1/2" with flexible head if possible)
- 8mm socket
- 16mm socket
- 18mm socket
- 2 socket extensions



Your Quake LED JL Fog Lights come standard with a fog beam and also feature RGB Accent lighting. We advise to take advantage of this great feature. Before you start disassembling your Jeep. Mount your Bluetooth RGB Controller on the passenger side of the engine bay and nearby the battery. Route the RGB wires from the Bluetooth RGB Controller to the headlights that is safe, driest 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. Although we highly recommended that you place the RGB Controller unit far away from heavy water areas such as wheel wells or windshield wiper/roof drain areas.

In order to remove the stock fog light assembly from the Jeep JL you have to remove the bumper.

## PROCESS

1. Remove the lower air dam panel that is held on by eight (8) plastic pop clips. With your nylon panel removal tool or flathead screwdriver. Place the head of the tool under the pop clip head and gently pry the pop clip down. Use your fingers to take out the pop clip out of the air dam. Work your way down the line to pop all eight (8) pop clips.
2. With all eight (8) pop clips out of the way. You need to remove two 8mm bolts from the bottom of the air dam. Remove the air dam out of the way.
3. Remove the two (2) 16mm bolts that hold on the metal lower cross member. Doing so will allow more access to removing lock nuts in step #7.
4. Remove the two (2) pop clips that hold the filler panel between the bumper and the grill. With your nylon panel removal tool. Place the head of the tool under the pop clip head center section and gently pry up a little. Use your fingers to take out the top section of the pop clip. Depending on your JL trim model. You might have more than two (2) pop clips.



JL lower cross member

*-Wire Diagram is for Illustration Only.  
-Actual wire harness lengths and wire gauge are not to scale.  
-Actual wire harness components are not to scale.*



— LIGHT UP THE DARKNESS —





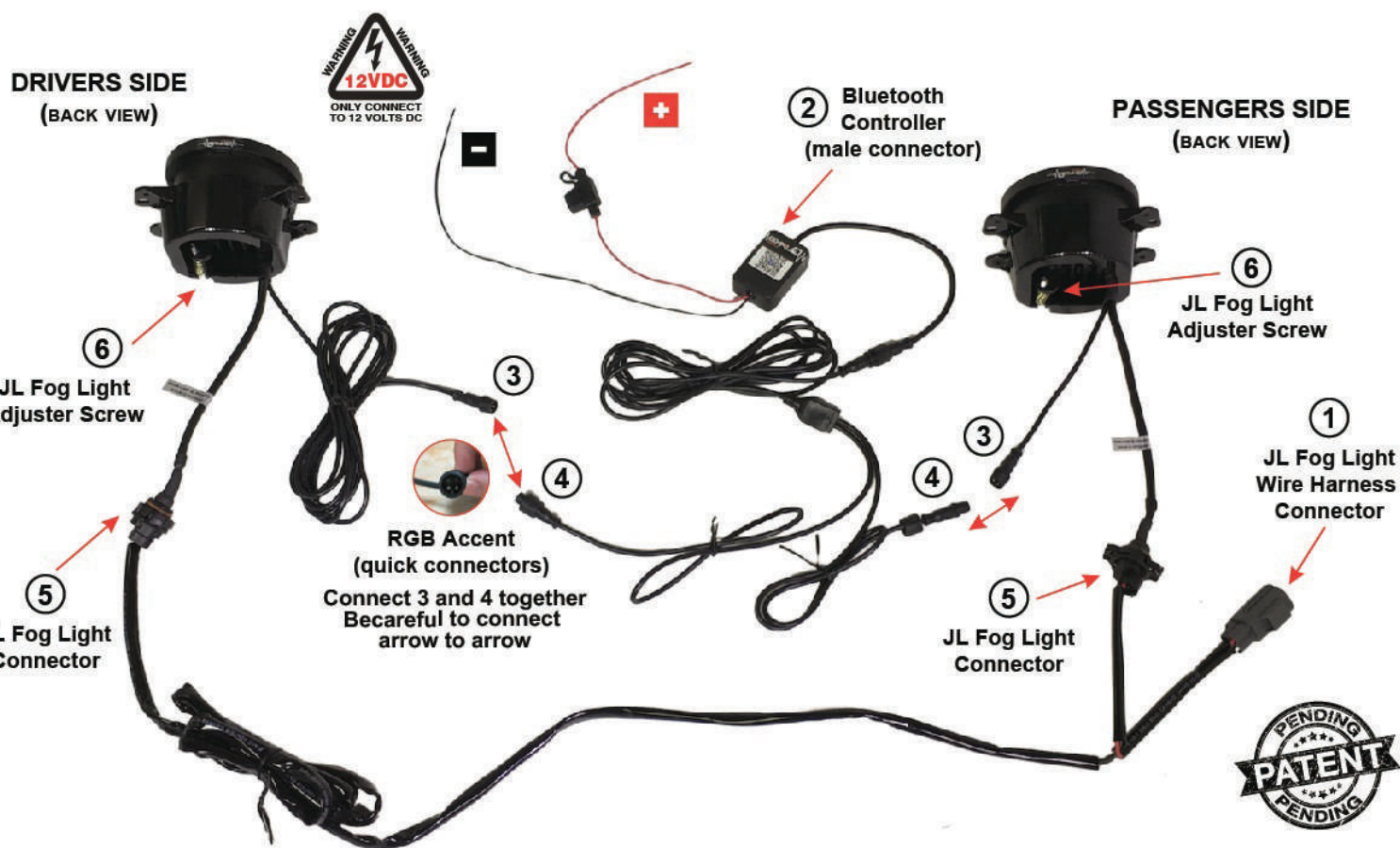
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5. Disconnect the stock fog light wire harness connector that is located on the passenger side. If you are changing your stock front bumper to a aftermarket bumper. You can use our included fog light wire harness with your new bumper instead of removing the stock wire harness. It can take a lot of time to remove the stock wire harness and re-install in you're new bumper.
6. With your 18mm socket, extension and flexible head socket wrench. Remove the two 18mm nuts that are located on the side of the fog light assemblies. Repeat on the opposite side.
7. In the center of the bumper located on both sides of the chassis frame are two (2) more nuts that need to be removed. (two nuts on each side). Remove these four (4) nuts to disengage the bumper from the vehicle. You should have removed eight (8) nuts that assemble the bumper to the vehicle.
8. Reverse process to install your new Quake LED JL Fog Light into your vehicle. Make sure the passenger side fog light has the short RGB wire. The drivers side fog light should have the long RGB wire.
9. Once you have both fog lights installed. Test that all functions work correctly and secure all wires with plastic cable ties. You can adjust the fog beam by turning the adjuster screw in or out to achieve desired beam location.



Now that you have your new Quake LED replacement fog lights 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 and functions. You will need to use the App to scan for the fog lights in order for the App to control the headlights. Scan the QR Code that will work with your smart phone.

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.

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-Actual wire harness lengths and wire gauge are not to scale.  
-Actual wire harness components are not to scale.



— LIGHT UP THE DARKNESS —





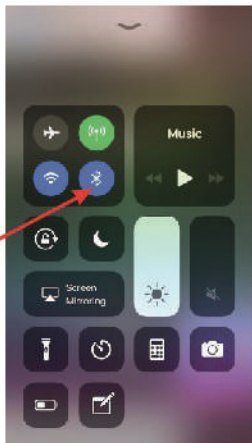
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## ① BLUETOOTH ON



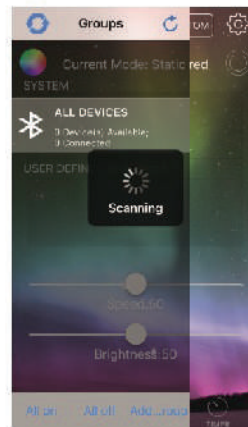
Bluetooth Accent Controller must be switched on

## ② TURN APP ON



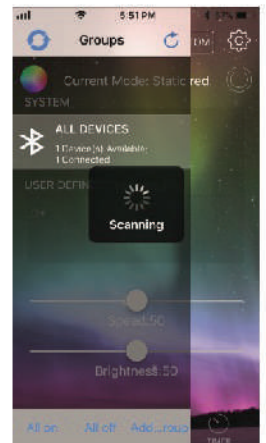
Open the App on your smart phone

## ③ SCANNING



Wait while it automatically scans for the controller

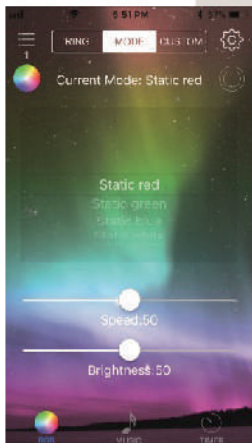
## ④ CONNECTED



Once found, it will automatically connect

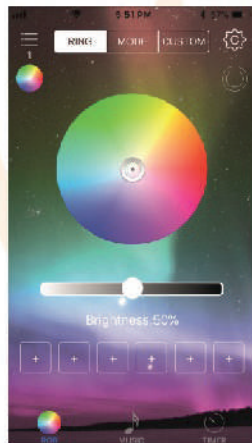
The real fun begins when you have successfully connected the App to the fog lights. Now you can pick and choose which colors you want your fog lights to accent and you can program your own colors.

## ⑥ MODE MENU



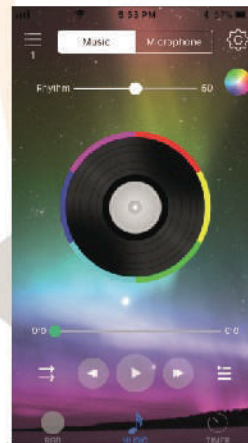
Choose colors, adjust speeds and adjust accent brightness

## ⑦ COLOR MENU



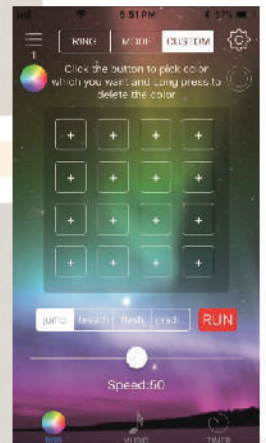
Custom pick your accent color and brightness

## ⑧ MUSIC MENU



Sync accent colors to your music

## ⑨ DIY COLOR MENU

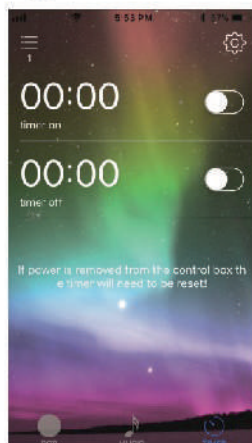


Create and save your own colors and effects

## ⑩ TIMER MENU

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

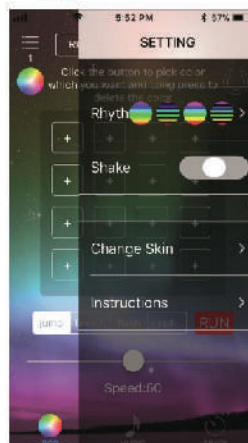
Play around with the timer function first and get familiar with the timer setting before leaving your vehicle's accent lights on unattended. (you might come back to a dead battery)



## 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 —