



JL 9 INCH HD HALO HEADLIGHTS & JL 4 INCH HD HALO FOG LIGHTS



- Amber Turn Signal
- Bluetooth Controlled
- iOS and Android compatible
- 121 Advanced HD Halo Ring Lighting Effects
- Music Mode, Flashing Mode, DIY Colors, Brightness Dimming and Speed Control



Bluetooth

Amber Turn Signals



121 Advanced HD Halo Effects



QTE915



QTE915 INCLUDES:
2x HD HEADLIGHTS
1x HD CONTROLLER
6x FLAT WASHERS
2x T-TAP CONNECTORS

2x HD FOG LIGHTS
1x HD CONTROLLER
1x JL BUMPER FOG HARNESS
2x JL FENDER LIGHT WIRE ADAPTOR
1x SAHARA and SPORT MOUNTING KITS

QTE914



QTE914 INCLUDES:
2x HD HEADLIGHTS
1x HD CONTROLLER
6x FLAT WASHERS
2x T-TAP CONNECTORS
2x JL 2x JL FENDER LIGHT WIRE ADAPTOR

QTE916



QTE916 INCLUDES:
2x HD FOG LIGHTS
1x HD CONTROLLER
1x JL BUMPER FOG HARNESS
1x SAHARA and SPORT MOUNTING KITS
1x HD CONTROLLER POWER CONNECTOR to JL

INTRODUCTION:

Thank you for purchasing our LED replacement HD headlight and HD fog lights and improving the safety of your vehicle. Videos can be found online to assist you with installing headlights into your specific vehicle. We have designed these LED replacement 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 and adjust your new lights.



Quake LED replacement headlights and fog lights will only operate on 12 volts DC! Most vehicles are 12 volts DC, but if for some reason you plan to install these in your grandfather's M1 Abrams Tank, you should probably 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 headlights, please read onward.

Record all HD Lights and HD Controller serial numbers here _____

WARNING:

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



These instructions are for **both HD headlights with HD fog lights** kits or as separated kits.

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 REQUIRED:

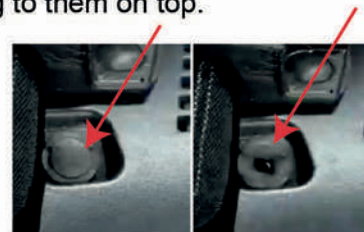
- Flat Head Screw Driver or Nylon Panel Removal Tool
- 7mm, 10mm Socket, Ratchet/Drill and Ratchet Extension
- 7mm, 10mm and 13mm Wrenches



PROCESS

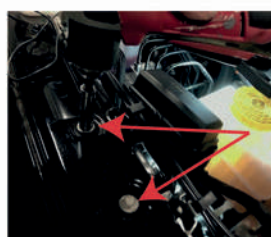
1. Like in every electrical install, you must unhook the battery. There are 10 mm nuts on top of the battery terminals. There is no need to remove the terminals themselves, just the cables connecting to them on top.

2. Remove the grill by taking out the (6) 2 piece push pins using a flathead screwdriver or panel popper. Popping the lower grill out requires some pulling from the bottom towards the bumper. It will feel like it is going to break but it will release with a little determination.



Next remove the stock headlights held in with 3 bolts on each light, using a 10mm socket. Unplug the stock headlights by pushing the backside connector tab on the wiring harness with your thumb. Take the stock headlights out.

3. Next is to install the Quake LED JL Fender Light Wire Harness Adaptor and the HD Controller. If not wiring up turn signals proceed to step (8). Now you need to locate the stock JL Fender Light Wire Harness connector on each side of the vehicle and install our JL Fender Harness Adaptors. (Refer to the Wire Diagram for Fender Wire Harness Adaptor illustration)



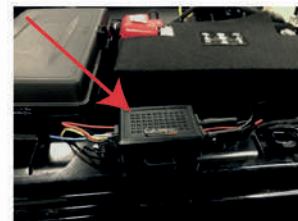
Start on the driver side fender remove the black box held on with two 10mm bolts to the fender. Gently move this off to the side to access the drivers side front Fender Light Harness. Locate the stock drivers side JL Fender Wire Harness connector. Disconnect those Male and Female connectors. Install our JL Fender Harness Adaptor between the two stock connectors. Our unique JL Fender Harness Adaptor allows you to easily tap into the stock wires WITHOUT cutting ANY stock JL wires thus voiding your warrant



4. Go to the passenger side. Remove the ground wires from the fender next to the battery. First 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) move the ground wires out of the way to access the stock JL Fender Light Wire Harness. It is located directly below the ground bolts. Do the same on the passengers side and locate that JL Fender Light Wire Harness connector. Connect our JL Fender Wire Harness Adaptor.



5. You will want to install the HD Controller on the passenger side right near the battery on the body frame. This way you can run the head/fog light RGB wires forward, run the drivers turn signal wire back along the firewall, run the passenger turn signal wire to the passenger side JL Fender Wire Harness Adaptor you installed in step 4. Remove the 3M red film from the bottom of the HD Controller to stick the controller to the frame rail.

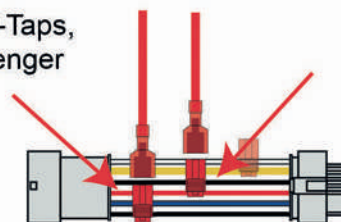


IMPORTANT: The RGB wires should face towards the FRONT of the engine bay.

You can power the HD 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 HD controller. The #3 switch is the small pink one. Crimp the pink wire and the HD Controller box red power wire.



If your JL does not have these switches you can use the two supplied Red T-Taps, Connectors and tap into the RED and outer most BLACK wires on the Passenger Side Fender Light Wire Harness Adaptor you installed in step 4. This will provide power every time your DRL lights are turned on.





JEEP JL 1/2 INCH 45WATT LED HEADLIGHTS, JL 4 INCH 30WATT LED FOG LIGHTS WITH RGB HD HALOS + AMBER SWITCHBACK TURN SIGNALS INSTRUCTIONS

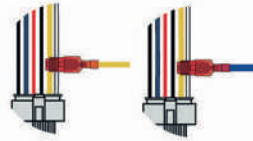
QTE914 HEADLIGHTS
QTE915 HEADLIGHT/FOG KIT
QTE916 FOG LIGHTS

Run the Yellow Wire off the control box to the driver fender, routing it up the firewall along the pinch welds through the factory loops to keep it out of the way to the driver fender.

6. Connect the Yellow Wire to the Drivers Side T-Tap on the JL Fender Wire Harness Adaptor.

7. Connect the Blue Wire to the Passengers Side T-Tap on the JL Fender Wire Harness Adaptor.

Reinstall the black box with the 10mm bolts back on the fender.



8. JL Fog Lights. Stock JL bumpers are available in different trim levels. Either you have a Sport, Sahara/Plastic Rubicon or a Metal Rubicon / Hard Rock Bumper. Our JL Fog Light kits include necessary brackets and all hardware. Look at the matrix below to figure out what bracket you need and where to mount those parts. If you plan to install the fog lights in a aftermarket front bumper. Use our included JL Fog Wire Harness in your new bumper to connect the fog lights to the JL. Removing the stock fog wire harness in the stock front bumper is a major PITA. Use our wire harness and save over a hour of labor! It's on the house!

SPORT BUMPER

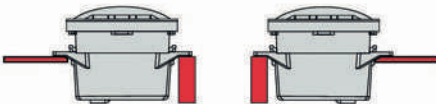


PHOTO

BRACKET NEEDED



BRACKET LOCATION (RED)



INSTALL PHOTOS



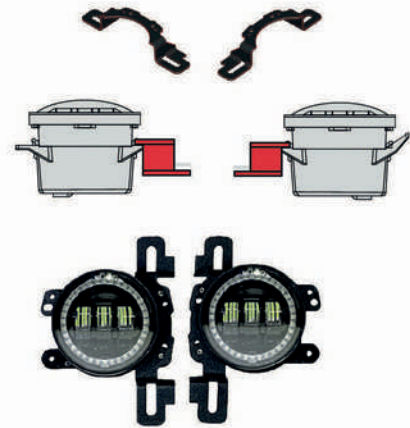
SAHARA/PLASTIC RUBICON BUMPER



NO BRACKET NEEDED



METAL RUBICON / HARD ROCK BUMPER



9. Disconnect the stock fog light power connector and remove your stock JL fog lights. Reinstall your Quake LED fog lights. Refer to the above matrix to determine which brackets and hardware you will need. Run the DRL and Amber Turn signal wires into the fender area and connect to same area as JL Fender Wire Harness Adaptor.

10. Connect the White DRL Halo wire (red wire) to the Red Wire T-Tap on the JL Fender Wire Harness Adaptor.

11. Connect the Amber Turn Signal wire (yellow wire) to the Yellow Wire T-Tap on the JL Fender Wire Harness Adaptor.

12. Before you install the grill and finish the install. You will need to make sure the beam location is not too high up and potentially blinding oncoming traffic. On the other hand you don't want the beam too low and not illuminating forward enough to see what is in front of you. Since most Jeeps have 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.

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.



Test that all functions work correctly and secure all wires with plastic cable ties.



— LIGHT UP THE DARKNESS —



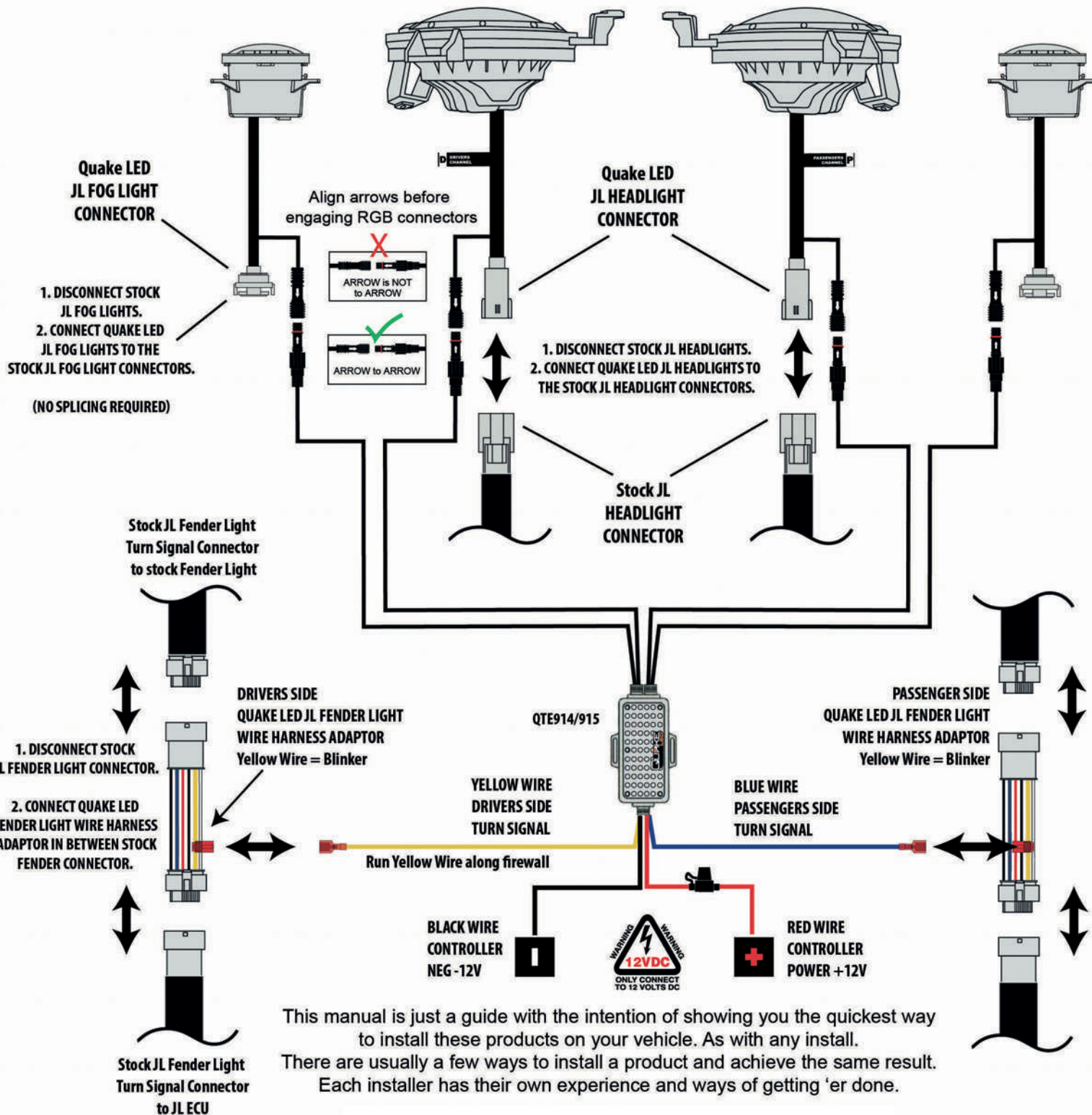
WIRE DIAGRAM

FRONT of JL



DRIVERS SIDE

PASSENGERS SIDE



-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.





JEEP JL INCH 45WATT LED HEADLIGHTS, JL 4INCH 30WATT LED FOG LIGHTS WITH RGB HD HALOS + AMBER SWITCHBACK TURN SIGNALS INSTRUCTIONS

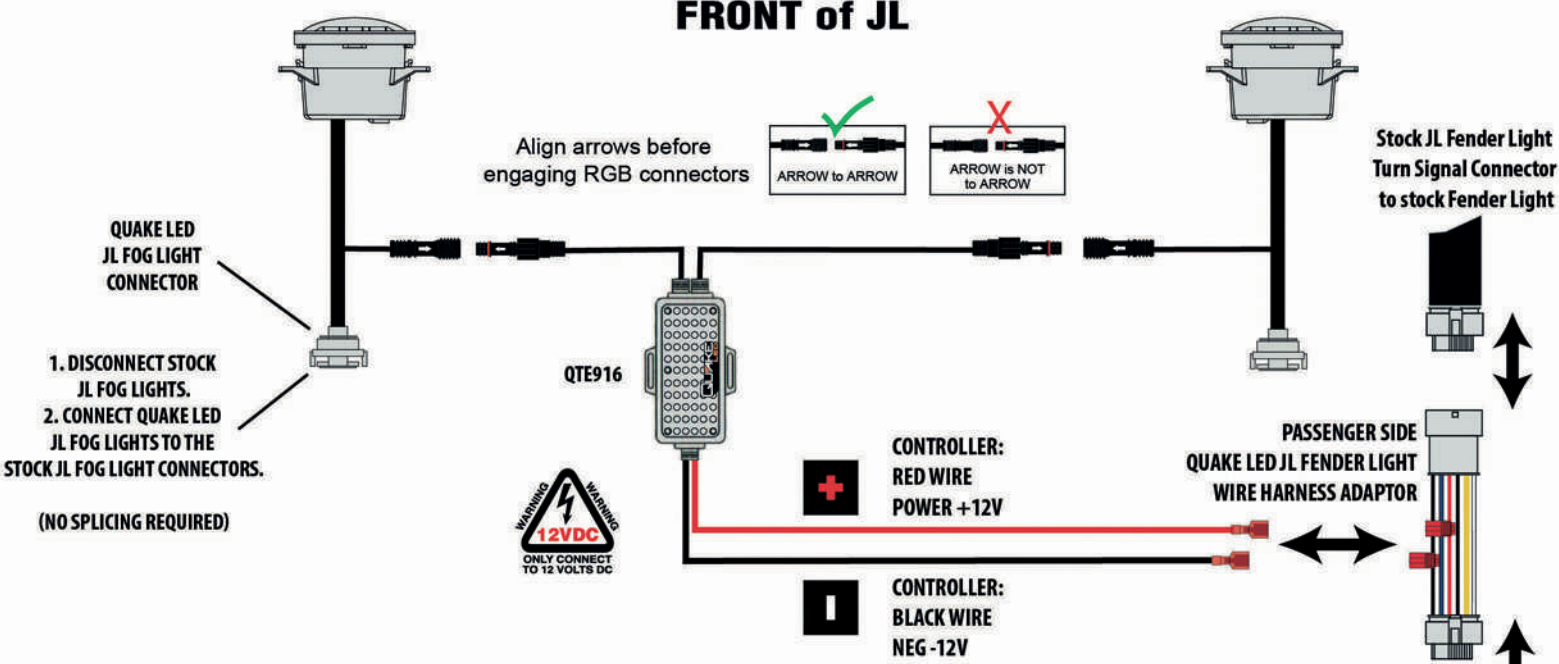
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DRIVERS SIDE

FRONT of JL

PASSENGERS SIDE

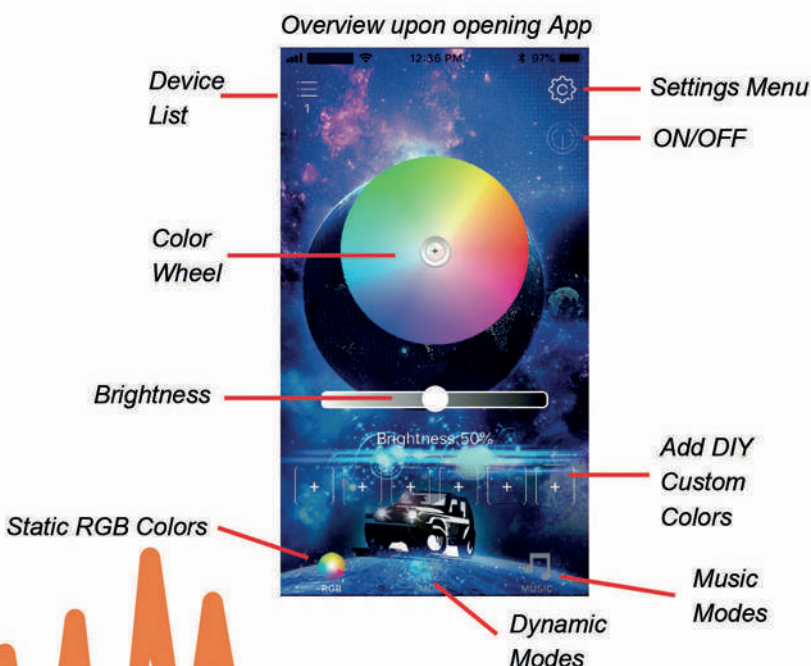


QR CODE/APP:

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 and HD effects. You will need to use the App to scan for the headlights in order for the App to control the headlights. Scan the QR Code.

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. You must use the App to control your HD headlights halos.

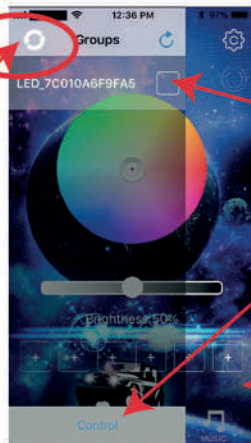
OVERVIEW, ADJUSTMENTS and SETTINGS:



- #1 Turn on Bluetooth
- #2 Open the App.
- #3 Click the Device List tab, located in the upper left corner



— LIGHT UP THE DARKNESS —



#4 Click the Device Refresh Arrow to scan the HD Controller

#5 Once your HD Controller is located, click the empty box right of name

#6 Click Control at bottom of Scan Tab

#7 Click outside the Scan Menu to access all App control options

#8 Located at the bottom of the App are 3 main color control options, RGB, 121 Effect Mode and Music functions

#9 Each color control option menu has many functions such as Brightness, DIY, Effect Speed, Microphone and Music options
Take time to familiarize yourself with all these great control options



RGB Static Color Mode



121 Effect Mode

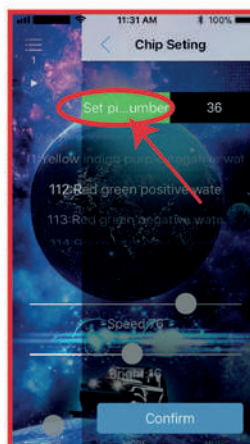
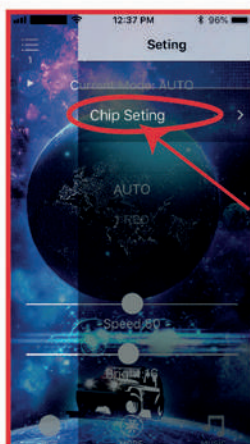


Music Mode



Microphone Mode

#10 TROUBLESHOOTING: If the entire halo is not lighting up OR the Speed Slider Tab is not responding, try the following:
Under Settings, choose Chip Select then SET_PIX_NUMBER, enter 36 then Confirm, then back.



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

