



# ZROADZ

DYNAMIC LED MOUNTING SOLUTIONS



**PROFESSIONAL INSTALL RECOMMENDED**

**2009 - 2017 RAM 1500 / 2500 / 3500**

PART#: Z334521 / Z334521-KIT-C

**FRONT ROOF LED LIGHT MOUNTS**

PARTS ARE PATENT PENDING. ALL RIGHTS RESERVED - COPYRIGHT ©2016 - ZROADZ LED, INC.

## PARTS INCLUDED

- (1) - Driver Side Roof Mount Upright
- (1) - Passenger Side Roof Mount Upright
- (1) - Driver Side Curved Coupler
- (1) - Passenger Side Curved Coupler
- (1) - Driver Side Straight Coupler
- (1) - Passenger Side Straight Coupler
- (1) - Hardware Pack



\* Simulated Rendering, Not actual parts.

## LED LIGHTS INCLUDED

**Z334521** - No LED Lights Included

**Z334521-KIT-C** - (1) ZROADZ 52" Curved LED Light Bar

## HARDWARE INCLUDED

### Z334521

- (1) - Weather Proof Rubber Boot
- (1) - 3/16 DIA. Wire Clip Mount
- (2) - 1/2 x 20 Hex Nut
- (2) - 1/2 Split Lock Washer
- (8) - 10-32 x .562 Button Head Allen Cap
- Stainless Steel Screws
- (8) - 10/32 Nylock Stainless Steel Nuts
- (1) - Driver Side Bottom Plate Gasket
- (1) - Passenger Side Bottom Plate Gasket

### Z334521-KIT-C

- (1) - Weather Proof Rubber Boot
- (1) - 3/16 DIA. Wire Clip Mount
- (2) - 1/2 x 20 Hex Nut
- (2) - 1/2 Split Lock Washer
- (8) - 10/32 x .562 Button Head Allen Cap
- Stainless Steel Screws
- (8) - 10/32 Nylock Stainless Steel Nuts
- (1) - Driver Side Bottom Plate Gasket
- (1) - Passenger Side Bottom Plate Gasket
- (1) - Torx Bit T-40
- (2) - M8 Tamper Proof Bolt
- (2) - M8 Split Lock Washer

## TOOLS REQUIRED

- Tapered 1/2" drill bit or car reamer
- Drill
- Air Hose & Nozzle
- Alcohol Cleaning Solution
- Cleaning Rag
- Socket Set & Ratchet Tool
- Ratchet Extensions
- Various Wrenches
- Dikes or Snips
- Torq Bit Set
- Heat Gun

**MATERIALS NEEDED** - Clear RTV Silicone  
- 1/2" x 1/4" DIA Shrink Tube

## INSTALLATION GUIDE

### START HERE

PLEASE READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE INSTALLATION. Auto makers offer varied models to each vehicle and occasionally manufacture more than one body style of the same model.

\* APPLICATION MODELS VARY. WE RECOMMEND TO VERIFY FITMENT BEFORE BEGINNING INSTALLATION PROCESS.  
\* IMAGES FEATURED IN THE INSTRUCTION DOCUMENTS MAY NOT ALWAYS EXACTLY MATCH YOUR MODEL OR PART.

### BEFORE YOU BEGIN

### LED LIGHT BRACKET INSTALLATION

**IMPORTANT NOTE:** The installation requires additional cutting and removal of material inside vehicle cab. If you are not comfortable with this, stop installation and consult a professional.

**START HERE:** Turn off engine, chalk tires with stop block, open the hood and disconnect the battery.



FIG 1

### STEP 1

1) Drop OEM headliner down to allow access to the inside of vehicle roof moulding, per industry "R&R" method.

### STEP 2

### SEE FIGURE 2

2) Make sure to carefully organize and then set aside all interior trim pieces & hardware which will make for a hassle free re-installation of your vehicle's interior.



FIG 2



# ZROADZ

DYNAMIC LED MOUNTING SOLUTIONS

## LED LIGHT BRACKET INSTALLATION - CONTINUED

PARTS ARE PATENT PENDING. ALL RIGHTS RESERVED - COPYRIGHT ©2016 - ZROADZ LED, INC.



FIG 3

### STEP 3

3) From above, wipe down clean the vehicle's roof channel and note the area and how your new ZROADZ's LED Roof Mount Brackets will be positioned.



FIG 4

### STEP 4

SEE FIGURE 4

4) Obtain the supplied roof mount base gaskets to use as a template to locate the drill hole location. Lay the gasket in the roof channel.

DO NOT REMOVE THE GASKETS ADHESIVE LINER.

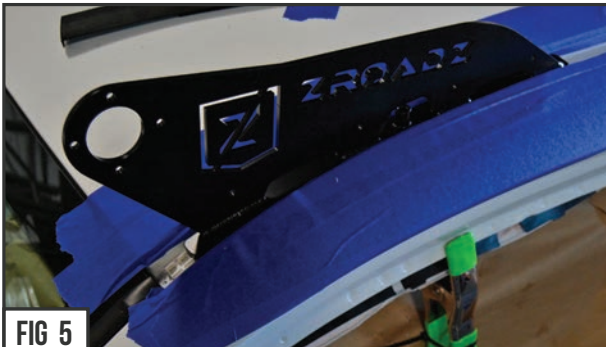


FIG 5

SEE FIGURE 5

Make sure to gasket is centered transversely (from right to left) in the channel. The front to back location of the gasket should be 1/4" from the top edge of the windshield glass to the end of the front of the gasket.

### STEP 5

SEE FIGURES 6-7-8-9

5) Using the gasket hole as a locator, center punch the pilot hole location.

#### INSTALLERS NOTE

Drop and push to the side the air bags and any other critical equipment stuffed up in between roof cab and the interior which will ensure critical components are not damaged.

With the interior roof free and clear, drill a 1/4" hole in the roof gutter to pilot the mounting hole. Use a car reamer (as seen in Figure #7) or tapered 1/2" metal drill bit to open the hole to a final diameter of 1/2".

With the holes drilled through, clean off all drilling debris and flash INSIDE AND OUTSIDE OF THE DRILL HOLE LOCATIONS. This is a very important to create a flush sealing surface and you do not want to leave any chance of rust occurring.

## DRILLING VEHICLE ROOF



FIG 6

### PRO TIP

DO NOT ATTEMPT INSTALL UNLESS YOU HAVE A CAR REAMER OR TAPERED 1/2" METAL DRILL BIT!



FIG 7



FIG 8

FIG 9

## LED LIGHT ROOF MOUNT INSTALLATION - CONTINUED



## LED LIGHT BRACKET INSTALLATION - CONTINUED

PARTS ARE PATENT PENDING. ALL RIGHTS RESERVED - COPYRIGHT ©2016 - ZROADZ LED, INC.

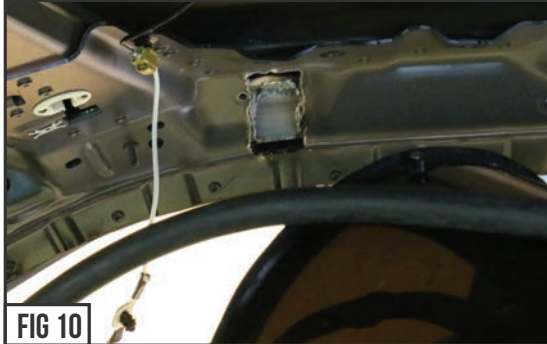


FIG 10



FIG 11



FIG 12

### STEP 6

SEE FIGURE 10

6) Clear away and remove material from the interior vehicle cab structure to make room to install washer and nut onto the bottom side of bracket through bolt and down tube.

### STEP 7

SEE FIGURE 13

7) Clean the base of the supplied roof brackets with alcohol. Once dry remove the liner of the base gaskets from step #4 and apply the gasket to the base of each bracket.



FIG 13

## INSTALL ROOF MOUNT TO ROOF



FIG 14

### STEP 8

SEE FIGURE 14

8) Before you install the bracket to the roof, check that the threads on the post after coming through the roof are clean.

With the roof and channel area debris free and wiped down clean with alcohol cleaning solution.

Use a thin layer of clear RTV Silicone around outside of each drilled hole to help with weather proofing and sealing.



FIG 15

### STEP 9

SEE FIGURE 15

9) Align the ZROADZ LED Mounting bracket to the roof and insert the through bolt threads down into the drilled hole.

Make sure the outside of the upright is coated black and says ZROADZ while the inside of upright presents the aluminum skin. Inspect your work to make sure you are happy with the position and then repeat for other side.



FIG 16

## LED LIGHT ROOF MOUNT INSTALLATION - CONTINUED



## LED LIGHT BRACKET INSTALLATION - CONTINUED

PARTS ARE PATENT PENDING. ALL RIGHTS RESERVED - COPYRIGHT ©2016 - ZROADZ LED, INC.



FIG 17



FIG 18



FIG 19

### STEP 10

10) With the two brackets installed, check that the threads on the post after coming through the roof are clean.

### STEP 11

SEE FIGURES 17 - 18

11) Install the split lock washer and the hex nut and tighten securely.

Check to make sure the upright is secured and firmly attached to top side of roof.



FIG 20

## LED LIGHT INSTALL

### STEP 12

SEE FIGURE 20 - 22

12) Obtain the supplied security torx, lock washer and tool bit from the hardware pack. With a friend's help, install the 50" light to the brackets with the wire on the drivers side.

Tighten hardware by giving the torx bit some extra leverage.



FIG 21

### STEPS 13

SEE FIGURE 23

13) Secure the wire to the driver bracket with supplied wire clip and nut. Leave slack in the wire from LED to the wire clip for some movement & available adjustment.



FIG 22



FIG 23

## LED LIGHT ROOF MOUNT INSTALLATION - CONTINUED



## LED LIGHT BRACKET INSTALLATION - CONTINUED

PARTS ARE PATENT PENDING. ALL RIGHTS RESERVED - COPYRIGHT ©2016 - ZROADZ LED, INC.



FIG 24



FIG 25

### STEPS 14

SEE FIGURE 24

14) Cut the LED light wires. Leave enough room for the insulation to be removed and the red and black wires to pass through the roof via the "Through Bolt Down Tube".

### STEP 15

SEE FIGURE 25

15) Trim back a large amount of the insulation sheath off the LED Wires so that you can slip them through the rubber weather proofing boot.

To expose the wires, a sharp razor could easily splice open the insulation sheath.

## WIRING PLUMBING



FIG 26



FIG 27

### STEPS 16

SEE FIGURES 26 & 27

16) Install 1/4" heat shrink insulation over wires as shown in Figure #25. Shrink insulation with heat gun or similar.



FIG 28

### STEPS 17

SEE FIGURES 28 - 31

17) Use a 50/50 mix of dish soap and water solution to install supplied boot over wire as shown on page #2 Fig. 6.

Pass the wire through the tube. Use a liberal amount of solution on the bracket around the area where the boot installs to aid in slipping the boot over the post.



FIG 29



FIG 30



FIG 31

## LED LIGHT BRACKET INSTALLATION - CONTINUED



## LED LIGHT BRACKET INSTALLATION - CONTINUED

PARTS ARE PATENT PENDING. ALL RIGHTS RESERVED - COPYRIGHT ©2016 - ZROADZ LED, INC.



FIG 32



FIG 33

### STEPS 18

SEE FIGURE 32

18) Stuff the boot into the bracket opening and over the down tube upright.

### STEP 19

SEE FIGURE 33 - 36

19) With the rubber boot fully seated (as seen in Figures #33 & 34) you are now ready to finish wiring up the LED Light bar to a wiring harness.

After wiring is complete, re-install vehicle's interior in the reverse order it was removed according to industry "R&R" method.

## FINAL INSTALLATION



FIG 34



FIG 35



FIG 36

### STEP 20

20) Wire LED Light with a ZROADZ optional wiring harness kit (part# Z390020S-A) or by utilizing a compatible custom wiring harness. ZROADZ recommends LED Lights be wired with ZROADZ harness kit (part# Z390020S-A).

### STEPS 18

ADJUSTMENT TIPS

21) To adjust the angle of your Light Bar, rotate the LED(s) to adjust the angles till your desired light pattern is reached. There will be minimal adjustment due to curved light bar orientation. You may than tighten the hardware and secure everything into place. Be careful not to over tighten the mounting hardware.

It is best to adjust the angle with the vehicle on level ground with lights facing a wall, garage door or other solid barrier. We recommend checking from a distance of 25'. Your installation is now completed.

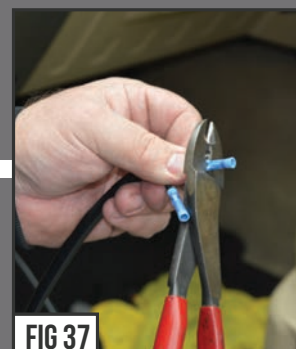


FIG 37

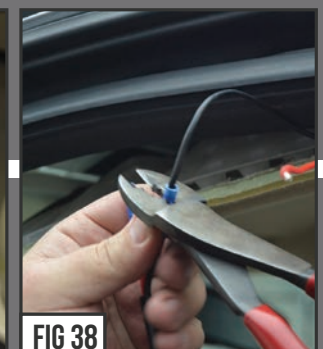


FIG 38



FIG 39

## LED LIGHT ROOF MOUNT INSTALLATION - COMPLETE