



# ZROADZ

DYNAMIC LED MOUNTING SOLUTIONS



**PROFESSIONAL INSTALL RECOMMENDED**

**2019-2021 RAM 1500**

PART #: Z334721 / Z334721-KIT-C

**FRONT ROOF LED LIGHT MOUNTS**

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## PARTS INCLUDED

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

## LED LIGHTS INCLUDED

**Z334721** - No LED Lights Included

**Z334721-KIT-C** - (1) ZROADZ 50" Curved LED Light Bar

## HARDWARE INCLUDED

### Z334721

- (1) - Weather Proof Rubber Boot
- (1) - 5/16 DIA. Wire Clip Mount
- (2) - 1/2 x 20 Hex Nut
- (2) - 1/2 Split Lock Washer
- (1) - Driver Side Bottom Plate Gasket
- (1) - Passenger Side Bottom Plate Gasket
- (2) - Roof Moulding Plate

### Z334721-KIT-C

- (1) - Weather Proof Rubber Boot
- (1) - t/16 DIA. Wire Clip Mount
- (2) - 1/2 x 20 Hex Nut
- (2) - 1/2 Split Lock Washer
- (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
- (2) - Roof Moulding Plate

## 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

## INSTALLATION GUIDE

### BEFORE YOU BEGIN

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. To assure your part is correct; our tech department can be contacted at [orders@zroadz.com](mailto:orders@zroadz.com) to verify fitment and assist with technical questions. All other inquires can be directed to [orders@zroadz.com](mailto:orders@zroadz.com). In the event you do not have internet access please call 844-653-8040

\* 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.

### INSTALLERS NOTE

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.

### LED LIGHT BRACKET INSTALLATION

### 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

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.

### SEE FIGURE 2



FIG 2



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## LED LIGHT BRACKET INSTALLATION - CONTINUED

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FIG 3

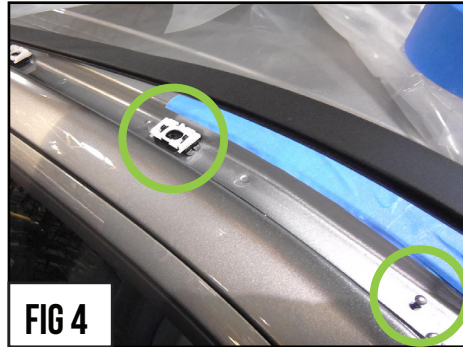


FIG 4

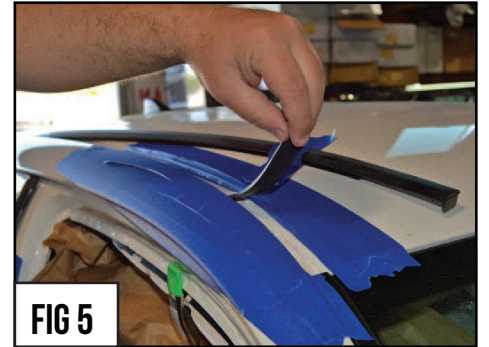


FIG 5

### STEP 3

SEE FIGURE 3 & 4

3) Peel back the roof molding starting from the front edge. You will also need to remove the first two Roof Molding Clips and the studs that they are mounted on so that the roof channel is flat.

### STEP 4

SEE FIGURE 5

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 GASKET'S ADHESIVE LINER.**



FIG 6

Make sure to gasket is centered transversely (from right to left) in the channel.

SEE FIGURE 6

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 7-10

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.

## ADJUSTABLE BRACKET SETUP

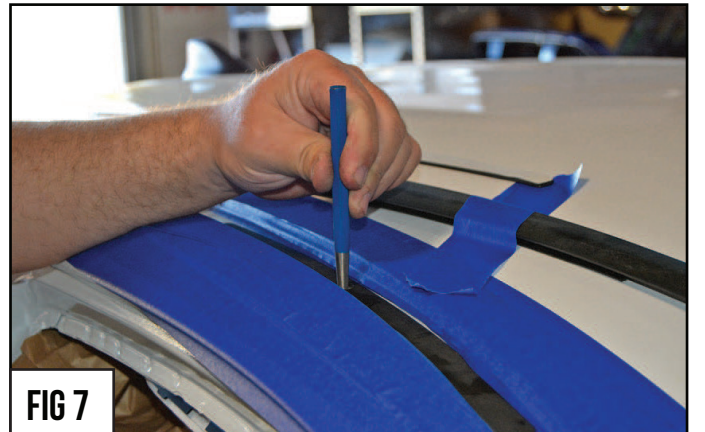


FIG 7

#### INSTALLERS NOTE

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



FIG 8

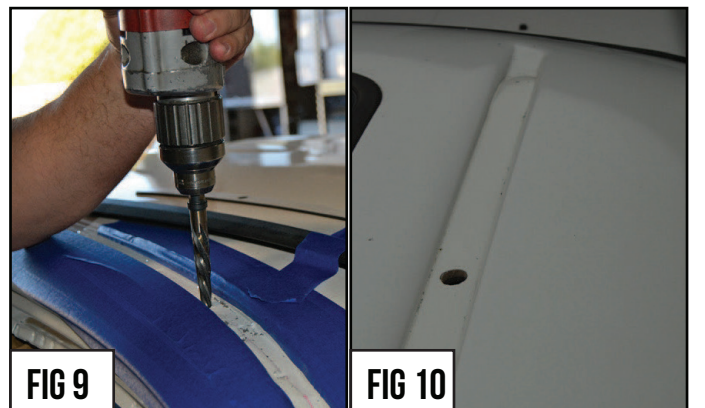


FIG 9

FIG 10

## LED LIGHT BRACKET INSTALLATION - CONTINUED



## LED LIGHT BRACKET INSTALLATION - CONTINUED

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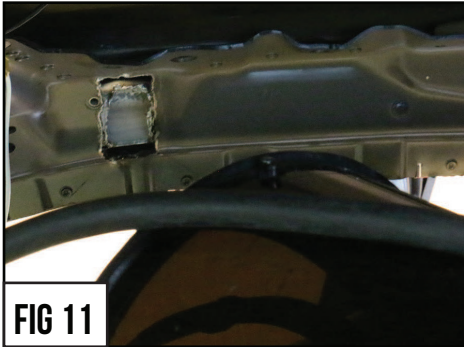


FIG 11



FIG 12



FIG 13

### STEP 6

SEE FIGURE 11

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 12&13

7) Clean the base of the supplied roof brackets with alcohol. Once dry remove the liner of the base gaskets and apply the gasket to the base of each bracket. Press down clean



FIG 14

### STEP 8

SEE FIGURES 15&16

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.

## INSTALL ROOF MOUNT TO ROOF



FIG 15

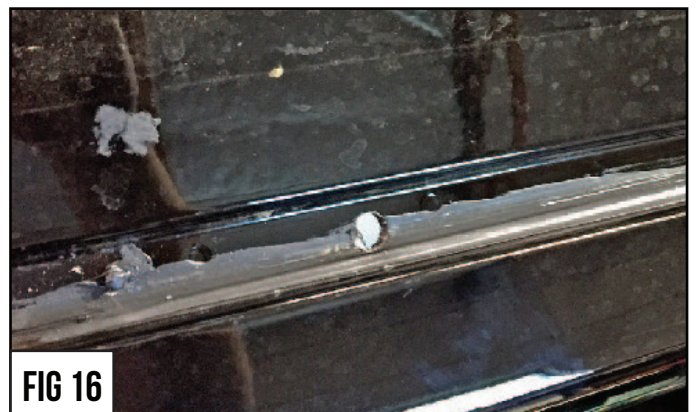


FIG 16

### STEP 9

SEE FIGURE 17

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 17

## LED LIGHT BRACKET INSTALLATION - CONTINUED



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## LED LIGHT BRACKET INSTALLATION - CONTINUED

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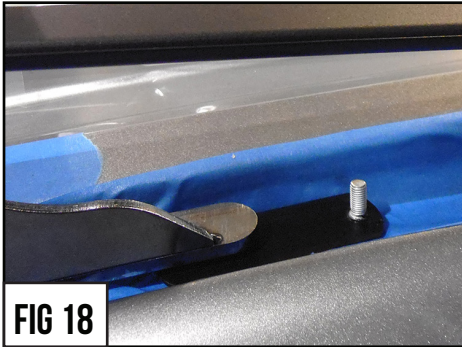


FIG 18

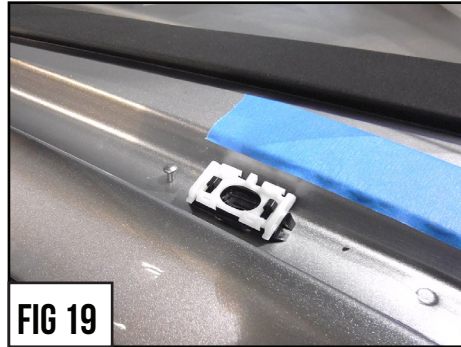


FIG 19

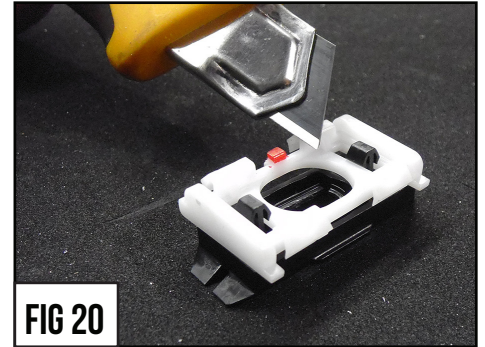


FIG 20

### STEP 10

SEE FIGURE 18

10) Take the provided Roof Molding Plate and put under the gasket & bracket. The threaded stud should be positioned 1" from back of bracket.

### STEP 11

SEE FIGURE 19&20

11) You will need to take one of the Roof Molding Clips and separate from the black plastic piece. Remove the red material from one side so it matches the other flat side.

### STEP 12

12) Insert and place the Roof Molding Clip onto the ZROADZ Roof Molding Plate that was put into position during Step 10.

### STEP 13

SEE FIGURES 21-23

13) Use the Roof Molding Plate and positioned Roof Molding Clip to measure and mark where to cut on actual Roof Molding.

Cut and trim back the Roof Molding so that it allows room for the ZROADZ Roof Bracket.

## TRIM BACK ROOF MOLDING



FIG 21

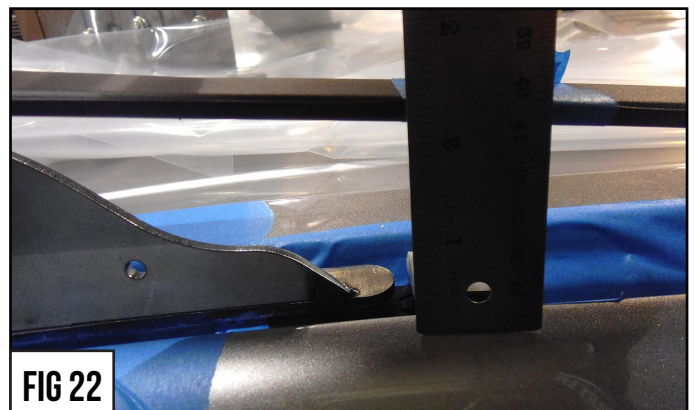


FIG 22



FIG 23

## LED LIGHT BRACKET INSTALLATION - CONTINUED



## LED LIGHT BRACKET INSTALLATION - CONTINUED

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FIG 24



FIG 25



FIG 26

### STEPS 14 & 15

### SEE FIGURES 24 - 26

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

15) 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 27

### STEP 20

### SEE FIGURES 27 - 29

20) 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.

## LED LIGHT INSTALL



FIG 28



FIG 29



FIG 30

### STEP 20

### SEE FIGURE 30

20) 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.

## LED LIGHT BRACKET INSTALLATION - CONTINUED



## LED LIGHT BRACKET INSTALLATION - CONTINUED

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FIG 31

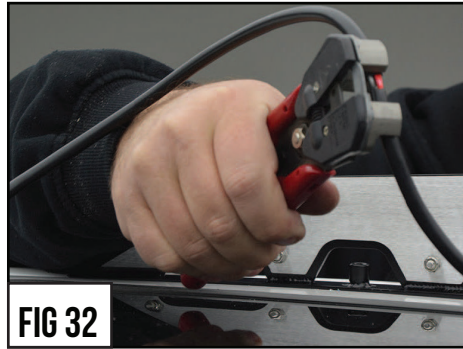


FIG 32

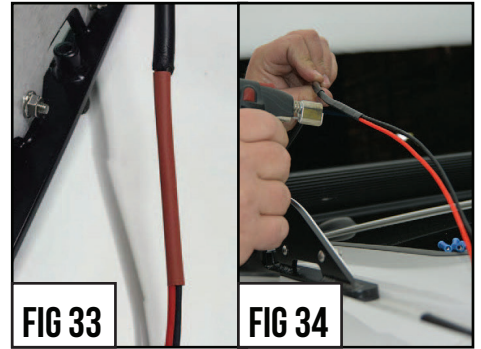


FIG 33

FIG 34

### STEPS 21

SEE FIGURE 31

21) 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 22

SEE FIGURE 32

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

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



FIG 35

### STEP 23

SEE FIGURE 34

23) Install 1/4" heat shrink insulation over wires as shown in Figure #34. Shrink insulation with heat gun or similar.

### STEP 24

SEE FIGURE 38

24) Use a 50/50 mix of dish soap and water solution to install supplied boot over wire.

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.

## WIRING PLUMBING

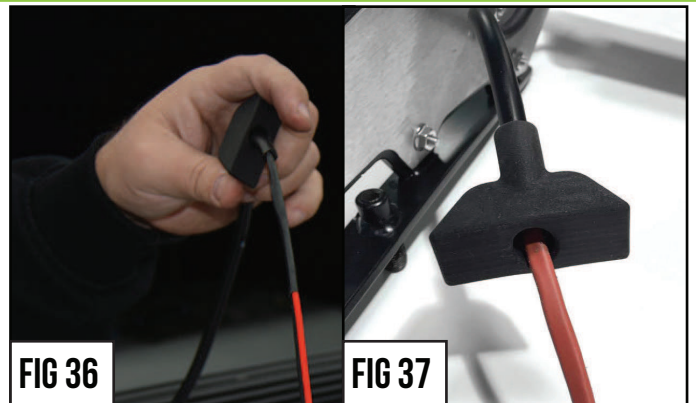


FIG 36

FIG 37



FIG 38



FIG 39

## LED LIGHT BRACKET INSTALLATION - CONTINUED



## LED LIGHT BRACKET INSTALLATION - CONTINUED

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FIG 40



FIG 41

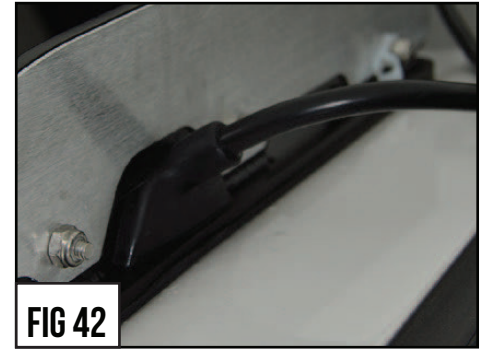


FIG 42

### STEP 25

SEE FIGURE 40

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

### STEP 26

SEE FIGURE 41 - 43

26) 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 vehicles' interior in the reverse order it was removed according to industry "R&R" method.

### STEP 27

27) 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).

### STEP 28

ADJUSTMENT TIPS

28) To adjust the angle of your Light Bar, rotate the LED(s) to adjust the angles till your desired light pattern is reached. You may then tighten the hardware and also mounting bracket to hood and secure everything into place. Note your tape marker under hood to check for proper alignment. 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.

## FINAL INSTALLATION



FIG 43

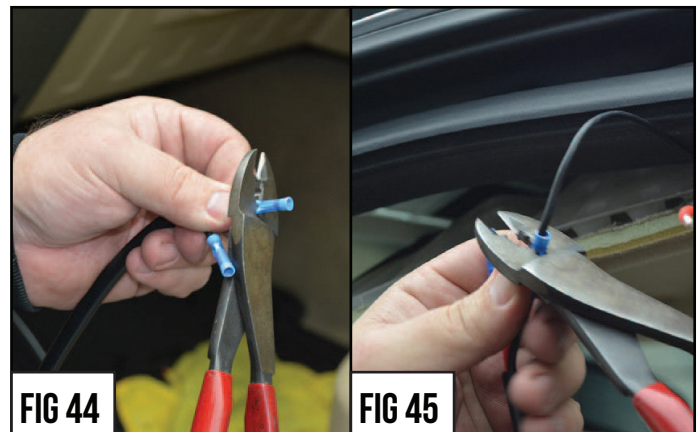


FIG 44

FIG 45



FIG 46

## LED LIGHT BRACKET INSTALLATION - COMPLETE



# ZROADZ

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## ZROADZ PRODUCT WARRANTY

### ZROADZ PRODUCT WARRANTY

ZROADZ warrants its grille products to be free from defects in material and workmanship for the lifetime of the grille. ZROADZ warrants the finish of its grille products for a 3 year period beginning at the time of sale to the end user. These warranties are limited warranties and do not cover abuse, modification or improper installation nor do they cover finish failure caused by caustic cleaning agents, road salts or other chemicals. ZROADZ reserves the right to repair or replace a defective product at its sole discretion. Any ZROADZ product must be returned to ZROADZ for warranty consideration and must be returned at the customer's expense. In the event that the product is deemed to be defective, the repaired or replaced item will be returned via a surface shipping method to the customer at ZROADZ expense. No provision is made for any labor, rental car or other costs incurred by the failure of its products.

## LED LIGHTING EQUIPMENT INSTALLATION / DISCLAIMER

### WARNING

PLEASE CONSULT YOUR LOCAL AUTOMOTIVE ELECTRICAL PROFESSIONAL FOR INSTALLATION SERVICES AND ADVICE. ZROADZ IS ONLY EQUIPPED TO PROVIDE BASIC TECHNICAL ASSISTANCE DUE TO THE DIVERSITY OF VEHICLES, VEHICLE OPTIONS & MODIFICATIONS AND LIGHTING CONFIGURATION OPTIONS AVAILABLE.

ZROADZ cannot be held liable due to improper component installation and / or faulty wiring.

### GENERAL GUIDELINES

LED Lights & LED Light Bars operate at relatively high currents and should only be installed by qualified personnel with experience in Switched / relayed high draw DC Circuits.

- Light Bars are designed for use only with standard 12v DC power systems
- Light Bars are for OFF-ROAD USE ONLY. Check your local laws & regulations regarding vehicle mounted lights.
- Some Light Bars are equipped with waterproof connectors while others are simply pig-tailed
- Red Wires = POSITIVE | Black Wires = NEGATIVE
- ALWAYS install your lights on a fused circuit. Basic fusing guidelines: maximum 5A for every 10" of LED Light Bar.

### GENERAL USE, INSTALL AND ADJUSTMENT TIPS

NOTE 1: ZROADZ LED Light Bars themselves are for OFF-ROAD USE ONLY.

NOTE 2: Light Bars depending on the configuration of your vehicle and its options and/or modifications may need to be adjusted for appropriate beam projection. To adjust the angle of your light bars simply loosen the mounting hardware on either side of each Light Bar, rotate the Light Bar to adjust the angle, then tighten the hardware once the desired angle is achieved (please be careful not to over-tighten the mounting hardware or scratch the protective powder-coat finish). It is best to adjust the angle with the vehicle on level ground with the lights facing a wall, garage door or other solid barrier at a distance of approximately 25-30 feet.

NOTE 3: Please consult a qualified automotive electrical professional for light bar wiring installation.

NOTE 4: An optional universal wiring harness (part# Z390020S-A) is also available that includes high-heat & oil/fuel resistant wires, waterproof connector, 12v relay, 12v rocker switch, in-line fuse holder. Our universal wiring harness significantly expedites the installation process but is not a vehicles specific "Plug & Play" product and does not eliminate the need for a professional installation.

Please contact your local ZROADZ dealer for more information or visit [www.zroadz.com](http://www.zroadz.com).

## PRODUCT CARE INFORMATION

### PRODUCT CARE INFORMATION

Wash regularly as you would when caring for your vehicles. Never use dish soap. Never leave wet water spots as that may leave a blemish.

### MATTE BLACK FINISH

Paint warranty applies to defects in material and / or workmanship, it does not cover the matte finish surface appearance. To enjoy the matte appearance for many years to come, please follow these owner care and maintenance tips. Get a no-shine matte car wash soap that uses no fillers, no silicone, and won't strip your matte paint of its layer of protection. Do not use wax, detail spray, armorall®, or any products made for normal paint. Use only products specifically developed for matte finish paint. Do not use products that are even mildly abrasive, such as polishes, glazes, or rubbing compounds. Do not use mechanical cleaners or polishers. Do not use terry cloth, cloth, or paper towels. Do not rub the finish vigorously, this will burnish the paint finish, causing a permanent shiny spot. Shiny spots cannot be removed.

Do not use commercial car wash facilities or their shine enhancement products. Most car wash brushes, large mechanized "towels", and shine enhancement products can damage matte paint.

Remove foreign substances such as insect remains, tar, and road debris using a soft applicator and a mild solvent; saturate and soak area before cleaning - rub lightly.

Hand-wash with a soft wash mitt and mild cleaning product safe for matte paint. Use microfiber cleaning cloths with alcohol-based window cleaner for basic surface clean-up.

### GLOSS BLACK FINISH

ZROADZ with Gloss Black Powder Coated Finish may be washed regularly as you would when caring for your vehicles finish using soap and water. ZROADZ should be waxed at the same time that you wax the vehicle. As a general rule, anything you use to clean your vehicles painted surfaces can be used to clean and maintain your ZROADZ grille. A Gloss powder Coated Finish can be cared for in the same fashion that you would care for your vehicles factory paint job. Never leave wet water spots as that may leave a blemish.