



# ZROADZ

DYNAMIC LED MOUNTING SOLUTIONS



## LED LIGHT BAR WIND DIFFUSER

Z330052C / Z330052S / Z330050C / Z330050S / Z330040C / Z330040S  
**NOISE CANCELLING DIFFUSER PLATE**

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### PARTS INCLUDED

- (1) - Noise Cancelling Wind Diffuser Plate for LED Light Bars



### HARDWARE INCLUDED

- (7) - 1/8" x 4.00 Grip Rivet Stainless

### TOOLS REQUIRED

- Drill Bit Set (1/8")
- Drill Gun
- Rivot Gun
- Ruler / Micrometer / Measuring Tool

### 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. 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.

#### BEFORE YOU BEGIN

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

#### STEP 1

- 1) Assemble your work area by preparing a nice flat or cushioned surface. Assemble your parts and layout your tools.

#### LED LIGHT BRACKET INSTALLATION





## LED LIGHT BRACKET INSTALLATION - CONTINUED

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### STEP 2

SEE FIGURE 3

2) Configure Diffuser Plate next to and against LED Light Bar to gain familiarity with how to begin assembly.

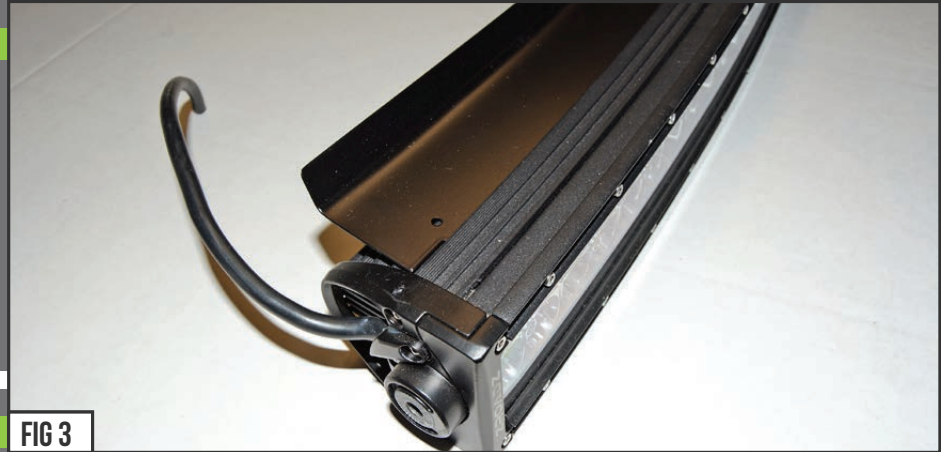


FIG 3

### STEP 3

SEE FIGURE 3

3) Diffuser Plate is to be mounted to the bottom side of LED Light Bar with Diffuser Plate Flange Lip point down towards roof of vehicle and away from LED Light Bar. Make sure that you setup your LED Light Bar in the orientation that the power wire will end up on the correct / desired side which is usually the driver side of the vehicle.



FIG 4

### STEP 4

SEE FIGURE 4

4) Put into place and slide Diffuser Plate between the first and second heat synch fins of the LED Light Bar.

### STEPS 5 & 6

SEE FIGURES 5-7

5) Using a ruler, tape measurer, micrometer or something of the like, evenly center the Diffuser Plate so that there is an equal gap left between Diffuser Plate and either LED Light Bar End Cap.

6) Using the Diffuser Plate pre located mounting points as a reference, with a 1/8" bit, drill straight down into the LED Light Bars second fin and at least a 1/2" down.

## FINISHED EXAMPLES



FIG 5



FIG 6



FIG 7

## LED LIGHT BAR WIND DIFFUSER PLATE INSTALLATION - PROCESS CONTINUED



## LED LIGHT BRACKET INSTALLATION - CONTINUED

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### STEP 7

SEE FIGURES 8-10

7) Insert Rivot fastener and secure Diffuser plate with Pop Rivot Tool.

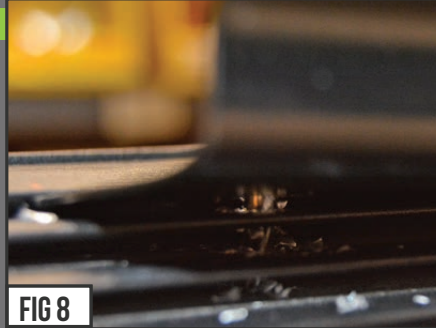


FIG 8



FIG 9

### STEP 8

SEE FIGURES 10-11

8) Repeat on the opposite end so that both ends are drilled and the Diffuser Plate will be locked in place.



FIG 10



FIG 11



FIG 12

### STEP 9

SEE FIGURE 5

9) Drillout the remaining holes (however are many are pre-arranged on your size Diffuser Plate.) Rivot the remaining holes to secure Diffuser Plate to LED Light Bar.

### STEP 10

10) Look over your work. Check for tightness all around.

Carefully inspect inside the Heat Synch Fins for any remaining metal shavings and debri. Once satisfied, be sure to blow off debri and wipe down the Diffuser Plate and LED Light Bar.

## FINISHED EXAMPLES

FIG 5



FIG 6



LED LIGHT BAR WIND DIFFUSER PLATE INSTALLATION - PROCESS COMPLETE



# ZROADZ

DYNAMIC LED MOUNTING SOLUTIONS

## 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# Z390029S-A) is also available that includes high-heat & oil/fuel resistant wires, waterproof connector, 12v relay, 12v rocker switch, inline 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 terrycloth, 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.