



TINY MONSTER[®]

LED PERFORMANCE LIGHTING

TECHNICAL FAQ BOOKLET



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This FAQ booklet will provide useful information regarding product application and installation of ARC Lighting's Tiny Monster bulbs. Keep it on hand for easy reference and troubleshooting guidance.

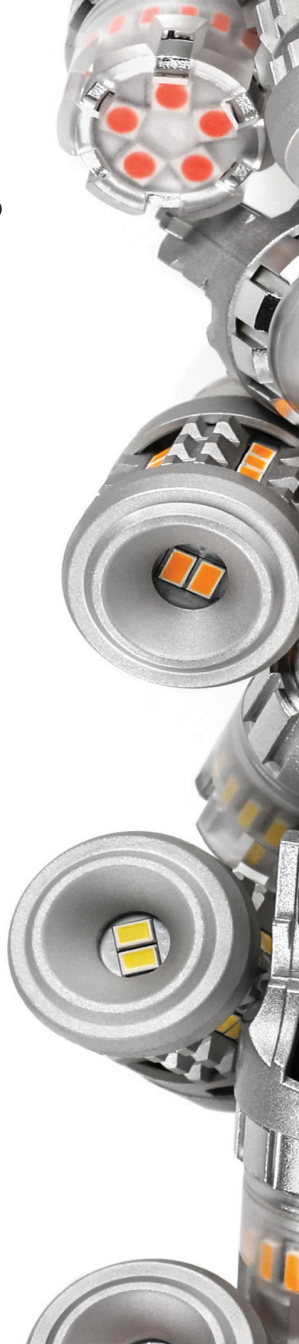
Who is ARC?

ARC Lighting is an established and well-respected manufacturer of LED automotive lighting products, with a strong commitment to delivering world-class technology and reliable performance in innovative designs.

From high-performance bulbs and pods to light bars and accessories, ARC serves customers across the truck, 4x4, motorsport, commercial, and industrial markets.

Why Choose ARC?

When selecting an ARC Lighting product, you choose a company that offers world-class design and quality while also receiving superior customer service and support from our worldwide team.

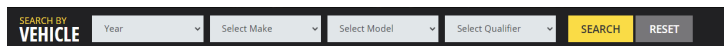


How do I know which bulb my vehicle requires, so I can order the correct parts?

When upgrading from a stock bulb to LED, determining the correct bulb number is the first step. There are two (2) recommended ways to find this information:


1. Use a vehicle search engine.


The easiest way is to use the vehicle search engine on our website. Simply visit <https://arc.lighting/> and use the drop-down menu to select the vehicle's Year, Make, Model, and Qualifier. Then press "Search."

A screenshot of a search bar interface. On the left, it says "SEARCH BY VEHICLE" in white text on a dark background. To the right of this are four dropdown menus with the labels "Year", "Select Make", "Select Model", and "Select Qualifier". Each dropdown menu has a small downward arrow icon. To the right of these dropdowns are two buttons: a yellow button labeled "SEARCH" and a grey button labeled "RESET".

Next, select the bulb type in the left sidebar. The search result will display compatible LED replacement bulbs. If you find your vehicle but no search results appear, that means we do not have an LED replacement for that stock bulb at this time. If you cannot find your vehicle in the search engine, please contact ARC Lighting and we can help.


Forward


 Headlight Bulb High Beam

 Headlight Bulb Low Beam

 Fog Light Bulb Front

Exterior

 Back Up Light Bulb

 Brake Light Bulb

Search Result for

Year: 2019 | Make: Toyota | Model: Tacoma | Qualifier: Compare to original



ECO SERIES 7440/7443 LED LIGHT BULBS AMBER - 3173A



ECO SERIES 7440/7443 LED LIGHT BULBS RED - 3173R

If your search results show multiple bulb choices, like the image above, please refer to the Bulb Choice Guide found on *page 5* of this FAQ booklet to help you decide.

2. Refer to the stock bulb.

The most accurate way to determine correct bulb size is by removing the stock bulb and checking the bulb number on it. The fitting will be stated around the casing, or at the base of the bulb.



Sometimes, a vehicle will have an aftermarket headlamp installed, instead of factory equipment. Checking the stock bulb number is the most reliable way to confirm proper bulb size.



How do I choose between Concept Series and Xtreme Series?

The **Concept Series** LED bulbs are very similar to stock bulbs in size and dimension, but deliver 2x the brightness. With a focused beam, precise cut-off line and zero glare, these bulbs are well-suited for city drivers seeking better visibility, and vehicles using reflector-style headlights.

Xtreme Series bulbs are the ideal choice for projector-style headlights, HID replacement, and vehicles that often travel in rural or off-road environments. Thanks to advancements in LED and cooling technology, premium LED fan-cooling bulbs like the Xtreme Series are as compact and reliable as non-fan bulbs. However, installers should avoid using these bulbs in vehicles frequently exposed to harsh environmental elements like dust or mud, which can shorten the life of the fan.

TINY MONSTER	BRIGHTNESS	POWER	COOLING	FITMENT	LONGEVITY
CONCEPT BULB SERIES 	2X STOCK	20W	SOLID STATE HEAT SINK	BEST	BEST
XTREME BULB SERIES 	5X STOCK	45W	MICRO COOLING FAN	GOOD	GOOD

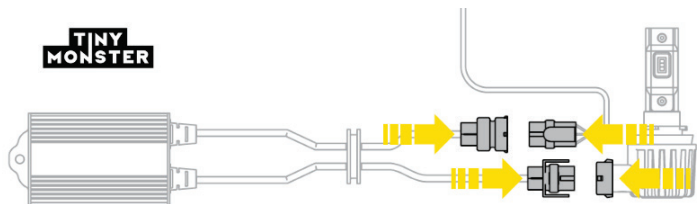
Fog lights throw a short and wide beam pattern in order to light the roadway close to the vehicle. Overly bright fog lights will draw a driver's vision to the front of the vehicle, posing a safety hazard. Concept Series bulbs provide the ideal amount of light for a fog light upgrade. Additionally, the solid heat sink ensures quality bulb performance even when exposed to environmental elements at the bottom of the vehicle.

While we encourage you to use your own technical expertise when deciding between Concept and Xtreme Series bulbs, the chart below reflects ARC Lighting's recommendations based on safety and regulation considerations, as well as fitment knowledge.

Bulb Choice Guide		TINY MONSTER	
Headlight and Fog Light LED Conversion Recommendations			
SITUATION	CONCEPT	XTREME	
CITY DRIVING	✓		
RURAL/OFF-ROAD DRIVING	✓	✓	
LOW BEAM HEADLIGHT	✓		
HIGH BEAM HEADLIGHT	✓	✓	
FOGLIGHT	✓		
REFLECTOR-STYLE LAMP	✓	✓	
PROJECTOR-STYLE LAMP		✓	
EXTREMELY TIGHT SPACES	✓		

Do I need a decoder harness?

Decoder harnesses solve the problem of LED replacement bulbs flashing or flickering. If your vehicle is experiencing any of the symptoms listed below, you may need a decoder harness.



SYMPTOM	LIGHTS FLICKER	LIGHTS ON/OFF INTERMITTENT	BULB OUT ERROR	LIGHT FLICKERS OR INTERMITTENT ONLY WHEN DRL IS ON	LIGHT FLICKERS OR INTERMITTENT AFTER DECODER HARNESSES WERE INSTALLED
DECODER HARNESS (ALL-IN-ONE)	✓	✓	✓		
SUPER DECODER				✓	✓

Generally, any Chrysler, Jeep, RAM, Dodge or German vehicle will require a decoder harness during a headlight replacement. Also, vehicles newer than 2015 usually require a decoder harness. Use the chart below for guidance. If still unsure, contact ARC Lighting for assistance.

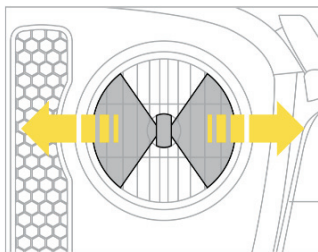
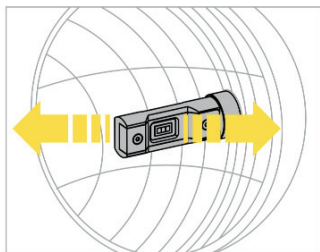
DECODER HARNESS BUYING GUIDE

DODGE	ALL VEHICLES NEWER THAN 1994
RAM	ALL VEHICLES
JEEP	ALL VEHICLES NEWER THAN 1997
CHRYSLER	ALL VEHICLES NEWER THAN 1995
AUDI	ALL VEHICLES NEWER THAN 1996
BMW	ALL VEHICLES NEWER THAN 1996
MERCEDEZ-BENZ	ALL VEHICLES NEWER THAN 1990
VOLKSWAGEN	ALL VEHICLES NEWER THAN 1994
SUBARU	ALL VEHICLES NEWER THAN 2000
FORD	2018-2020 SUPER DUTY, FORD FOCUS 2021-2018
TOYOTA	CAMERY 2012-2019
GMC	SIERRA 2014-2015
CHEVROLET	SILVERADO 2019-2021
ALL MAKE	PROJECTOR HEADLIGHT USING 9012 BULB

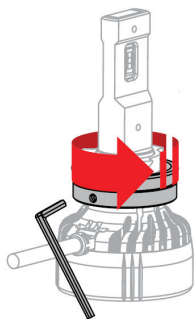
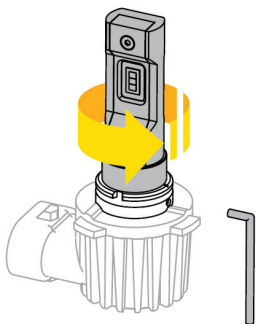
How do I adjust the LED bulb for correct orientation?

After installation, check if the LED bulbs are sitting at the correct orientation. If incorrectly installed, the lights may have poor output, an irregular beam pattern, or a glare that blinds other drivers.

The diodes (LED chips) should always be in a side-to-side orientation, with one set of LEDs facing 3 o'clock and the other facing 9 o'clock.



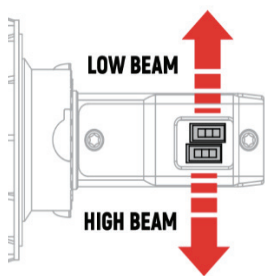
Concept Series bulbs adjust by repositioning the bulb head, while **Xtreme Series** adjust by repositioning the bulb collar.



To adjust the orientation of the single filament bulbs (H11/9005/9006/9012 etc.), first set the LED diodes to the correct angle. Then, use the provided hex key to loosen the set screw on the LED bulb collar. Rotate the collar to the required position and tighten the set screw.

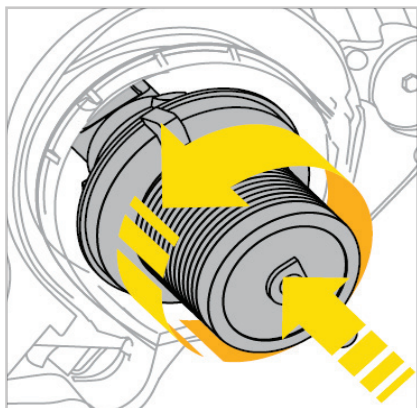
**Do not forcibly pull the bulb head out or rotate it in excess of 180 degrees.
Also, do not over-tighten the set screw.**

H13/9007/9004 Our dual filament bulbs provide low and high beams in one bulb, using the same side-to-side orientation.



These bulbs feature two (2) sets of LED chips on both sides of the bulb and must be aligned according to the illustration.

To adjust, simply push in the bulb base and turn the bulb counter-clockwise.



I have an HID bulb. Do you have a replacement?

Yes! ARC Lighting offers LED replacements for HID bulbs.



We recommend vehicle owners upgrade to Xtreme Series LED replacements, as they routinely outshine 35W HID systems. On average, LEDs can last up to 2x longer than HIDs and emit 30% more light. While HIDs need a few seconds to warm up, LED replacements offer instant illumination.

These are ARC Lighting's top five HID replacement bulbs:



D1 22D11

D2 22D21

D3 22D31



D4 22D41

D5 22D51

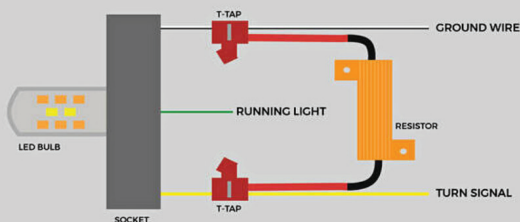
For more information on ARC Lighting's Xtreme Series and available fitments, please visit <https://arc.lighting/>.

My signal light is experiencing hyper flashing. What should I do?

A load resistor easily solves hyper flashing by creating a bridge between the positive and negative wires of the LED signal wiring. This restores the “missing” resistance load from the standard-issue bulbs.

To install a load resistor:

1. Identify which wire runs to the turn signal and which is the ground. Test the wires using either a multimeter or test light.
2. Next, insert one resistor harness wire and then turn signal wire into the scotch lock provided in your kit. Make sure the bracket closes on the wire all the way. Then, repeat the process with the other resistor harness wire and the ground wire.



Please note, while ARC Lighting's LED Load Resistor Harnesses run 50% cooler than generic gold aluminum resistors, these products still run at a high temperature. It is important to secure the resistor onto a metal surface. If the resistor touches any wiring or plastic, it will melt it.

My bulb has failed. How do I get a replacement?

ARC Lighting offers a 2-year warranty on all bulb products and a 3-year warranty on all lamp products.

If you are a jobber, retailer or professional installer, please contact your distributor directly to get the replacement bulb verified. Your distributor will send you a replacement product. If the distributor cannot verify your replacement, you will be directed to ARC Lighting.

To obtain warranty service, please visit <https://arc.lighting/warranty-claim/> or contact ARC Lighting, Monday through Friday 9am – 5pm CST, at support@arc.lighting or (888) 608-2220 and implement a request for Return Material Authorization (RMA) during the Warranty Period.

Where can I find more information about ARC Lighting products, installation and troubleshooting?

The ARC Lighting website provides dealers and consumers with an array of lighting guide resources, including answers to questions like:

- What is the difference between an H16 bulb and a 5202 bulb?
- The 9004 or 9007 bulb base is too big for the retainer ring. How do I complete installation?
- My headlight uses an H7 bulb that goes into an adaptor. Can I install LED replacements?

For more information please visit

<https://arc.lighting/support>

To request a catalog or speak with customer service, please email support@arc.lighting or call (888) 608-2220, Monday - Friday 9am – 5pm CST.

How do I become an ARC Lighting dealer?

Since we are strictly wholesale, we ask that you please contact your distributor to learn more about how to order ARC products.

Please refer to the following page for a list of ARC Lighting's distribution partners.

I am an existing ARC dealer. How do I get added to the online dealer locator?

If you currently sell our products and wish to be found as a dealer on our online dealer locator, please send your business name, address, phone, email, website URL, and specialties to support@arc.lighting or fill out our online form at <https://arc.lighting/>.

CONCEPT BULB SERIES

SPECIFICATIONS

- SKU: 10001
- Price: \$50
- H11 Concept Bulb Included
- 120VAC converted to 12VDC



ARC Lighting's distribution partners

Keystone Automotive Operations, Inc.

Meyer Distributing

Competition Specialties (CSI)

DSI Automotive Products, Inc.

Sunrise National Distributors, Inc.

Tri-State Enterprises

A-1 Distributing, LLC.

Titan Truck

Midwest Wheel

Toys for Trucks

Midstates, Inc.

Earl Owen Company

etrailer.com

Racing Products Warehouse

Motor State Distributing



XTREME BULB

SERIES

SPECIFICATIONS

- SKU: 10002
- Price: \$55
- H11 Xtreme Bulb Included
- 120VAC converted to 12VDC

Notes

Disclaimer: LED bulbs are street legal in the USA for fog light use only. Not compliant with DOT/FMVSS108. All other applications are for off-road use only. International legality varies by country.

Notes

Note: *These regulations are not unique to Tiny Monster bulbs and apply to all LED bulbs from all brands regardless of claims.*

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