

HIR Headlight Bulbs

Want to get great illumination without extra heat, wiring upgrades, relays, transformers, and blue tint? Want to SEE better at night instead of HEARING a bunch of dubious chatter about xenon-filled, over-wattage, blue-tinted bling-bling bulbs that are supposedly "just like HIDs"? Want a bulb where you maintain the correct filament placement for a perfect light pattern, instead of causing glare and scattered, diffused light? Want to save hundreds of dollars over the cost of retrofitting an illegal, bootleg HID system? Then you want these Halogen Infrared Reflecting bulbs.

These Toshiba bulbs are a unique product, the only bulbs available known to use the research technology that General Electric patented in 2000 (patent number 6,087,775). GE sells HIR bulbs for commercial lighting and specialized applications, but decided to stay out of the automotive market and licensed this technology to a division of Toshiba. These are Toshiba bulbs, brand new, never used, factory direct. In fact, Toshiba and GE are



among the few companies in the world with the expertise to engineer and build this product. These bulbs attain light levels 75% to 137% brighter than stock as a result of an engineering process that deposits multiple, yet almost invisible, layers of semi-reflective coating on the surface of a specially shaped and focused quartz bulb. This coating reflects a portion of the infrared energy emitted by the filament back onto the filament, causing it to glow brighter and emit more light from the uncoated forward portion of the bulb. Although the filament gets hotter, the glass does not. IT GENERATES NO MORE HEAT THAN A REGULAR HALOGEN BULB, AND IT DRAWS THE SAME WATTAGE AND AMPERAGE AS THE STOCK 9005 OR 9006 BULB IT CAN REPLACE.

The mechanical dimensions of the bulb are all virtually identical to the 9005 and 9006 bulbs, but the bulb glass is spherical instead of tubular, with the sphere centered around the filament.

Here's the comparison:

Low beam stock: 9006	12.8V, 55W, 1000 lumens, 875 hours
Low beam new: HIR2/9012(9006)	12.8V, 55W, 1875 lumens, 875 hours
High beam stock: 9005	12.8V, 65W, 1700 lumens, 320 hours
High beam new: HIR1/9011(9005)	12.8V, 65W, 2530 lumens, 320 hours

These bulbs produce white light, rated at 3600 Kelvin color temperature, slightly whiter than the 3250K stock halogen bulbs. They do not attempt to imitate the bluish appearance of HID (High Intensity Discharge, or Xenon) bulbs. The blue halo of original-equipment HIDs comes from the high voltage arc of energy between electrodes, which emits a minor amount of long-wave UV light. Putting a blue coating on a regular bulb actually reduces light output.

So you're looking at nearly 88% light from the low beams and 49% more from the high beams. The beam pattern will not change, but there will be considerably more light within the beam pattern.

Headlight Services

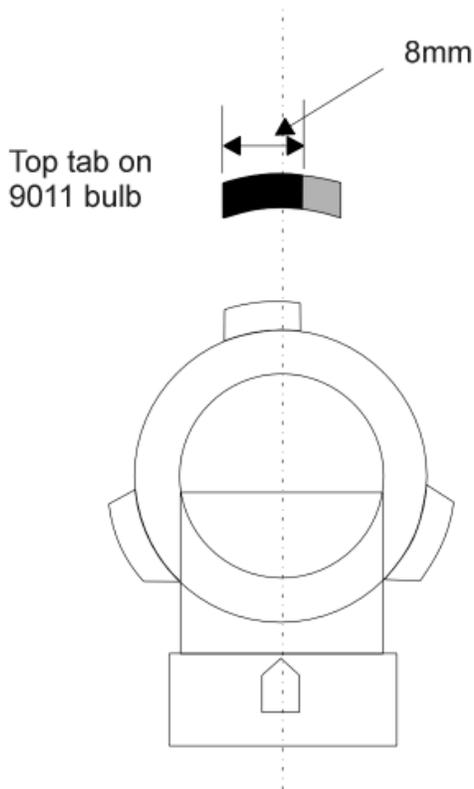
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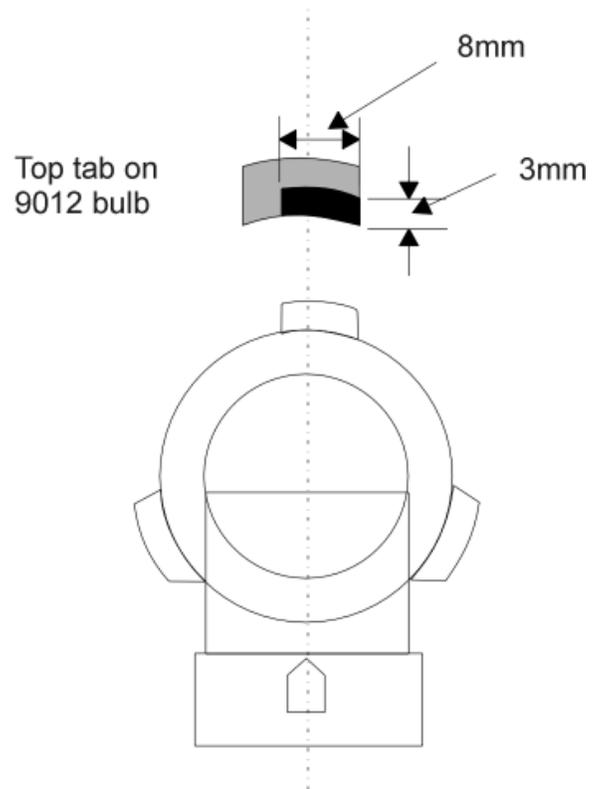
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**To Adapt HIR1 • 9011 Bulb To HB3 • 9005 Holder
— and —
To Adapt HIR2 • 9012 Bulb To HB4 • 9006 Holder**

**Remove (Trim or File) Grey Areas Of Top Tabs
As Shown Below**



**HIR1-9011 to
HB3 9005**



**HIR2-9012 to
HB4 9006**

Views are shown from the connector end,
bulb glass pointing away from you.