

How to 'shim' your bulb to optimize your hotspot

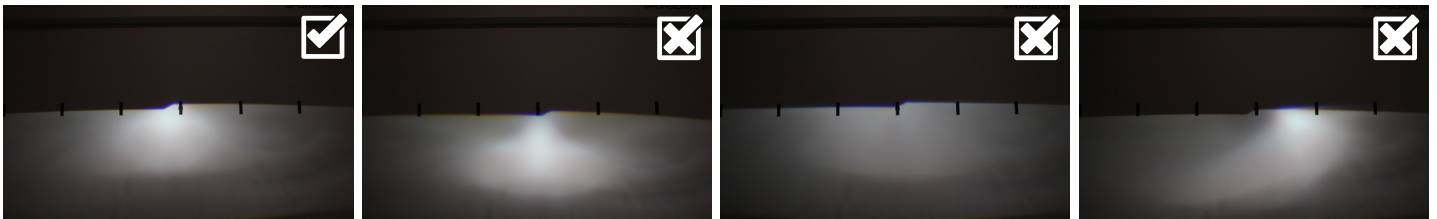
Introduction

Despite our high-quality products, due to the combination of small deviations in the bulb base/projector base, it may be needed to twist/shim the bulb for a perfect alignment of the hotspot this allows you to get the most out of your lamp.

The hotspot is the brightest part of your light output, you want this hotspot to be right in the middle to look further away when you're driving. In this manual we will teach you how to optimize the hotspot so you get the most out of your lamp.

How to spot the misalignment

The hotspot should be centered, if not the light output will not be optimal. To fix this, we first need to indicate the kind of misalignment, then we know how it can be improved. We recommend you parking/aiming at a wall, see the pictures below to see how misalignments look like.



How a proper bulb alignment looks like

The hotspot is angled too low

The hotspot is angled too high

The hotspot is not centered

How to optimize the hotspot

STEP 1 Material of choice

In order to move the hotspot, you will need to shim the bulb. Shimming means you add material to move the bulbs in the projector bowl. You can do this several ways, we recommend using some aluminum tape/foil. The thickness of the material is depending on the severity of the hotspot being off.

STEP 2 Shimming the bulb

What you want to do is cut a sliver of your material and place it in the appropriate position on the projector's bulb holder, to adjust the placement of the bulbs. The placement of the material depends on the direction the hotspot needs to go.

STEP 3 Determine the position

Now we know what to do it's time to place the material on the bulbholder:
 In the case of the hotspot being low, you would need to place the shim at 12 o'clock.
 In the case of the hotspot being high, you would need to place the shim at 6 o'clock.
 In the case of the hotspot being to the left, you would need to place the shim at 3 o'clock.
 In the case of the hotspot being to the right, you would need to place the shim at 9 o'clock.

