



## Light beam adjustment guide

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### Tools needed:

- Tape Measure
- Painters tape / paper tape
- Marker
- #2 Philips screw or Hex driver  
(Depending on application)
- Flat level surface and vertical wall
- Bubble level

### Overview:

- In this guide we will go over proper light setup, alignment and best practices.
- Whenever installing new lights, it is recommended to always verify that the beam is focused properly.

**Light beam adjustment:** index of terms

1. **Beam hotspot**, A beam hotspot is the brightest part of a vehicle headlight beam, designed to illuminate the road ahead at long distances. It helps drivers to see further and improve their reaction time, but should be properly aligned to avoid blinding other drivers.
2. **Beam alignment**, alignment point refers to the correct angle and position at which automotive headlights should be adjusted to ensure proper lighting and avoid blinding other drivers on the road.

**Light beam adjustment:** Begin setup

1. On a flat surface, pull the vehicle within 2 foot of the wall that you're going to make the marks with tape. Make sure you have enough space to back up 25 feet after making your aiming marks.



### Light beam adjustment: setup continued

3. Create the "y-axis" lines by drawing a line from the ground to the approximate center point of each headlight on the wall, repeating the process for the other headlight.



4. To create your X-axis (horizontal) line, make a straight-line using tape by connecting the center points between the headlights.

NOTE: A bubble level is useful to ensuring the X-axis is straight.



**Light beam adjustment:** setup continued

Note: The aim of these guidelines is to align the two headlights by positioning the center of the alignment point at the intersection of the horizontal X-axis line that you have marked. This should be done for both headlights.

- Keeping the wheel as straight as possible, back up the vehicle 25 feet from the wall.



- Using the proper screw or hex driver, rotate the alignment screws until the beam hot spot is centered on the X-axis line.

