

HEADLIGHT AIMING INSTRUCTIONS

HEADLIGHTS MUST BE AIMED AFTER INSTALLATION

Headlight must be securely mounted and properly aimed such that the beam pattern “cut off line” complies with all applicable regulations. **If you are not familiar with the legal requirements for aiming your headlights, please see a professional service provider.** We recommend that headlights are aimed with a headlight aiming system for proper alignment. Failure to properly aim your headlights is a risk to other drivers and could result in tickets or citations with local authorities. J.W. Speaker is not liable for any damage to the vehicle or light, or any tickets/citations as a result of using these guidelines.

BEFORE INSTALLATION:

1. Vehicle is being aimed on a level surface.
2. All tires are properly inflated.
3. Vehicle is at normal driving height (applicable to listed vehicles).

NOTE: If a lift kit is added or removed from the vehicle, headlights **MUST** be AIMED AGAIN.

REQUIRED SUPPLIES

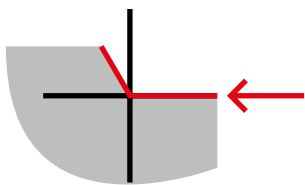
- Tape or chalk to mark lines
- Corresponding tools for your vehicle's aiming mechanism

OPTIONAL SUPPLIES:

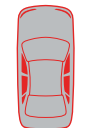
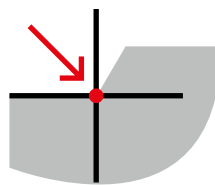
- Laser level to expedite the aiming process and will help to increase accuracy in aiming

KEY TERMS:

Kink (elbow): The top of the pattern that is the cutoff when aimed at a wall.

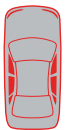


Alignment Point: The center of the angle in the Kink that must align to the center point when aiming the light at a wall.



LHT(Left Hand Traffic):
ECE Regulation countries
like the United Kingdom

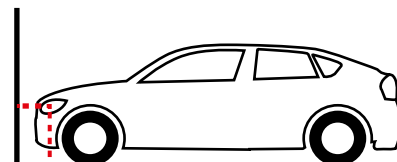
RHT(Right Hand Traffic):
DOT (and some ECE)
Regulation countries like
the United States



The following instructions are illustrated for RHT vehicles. Aiming for LHT vehicles will be mirrored to what is shown.

AIMING GUIDLINES:

1. Park your vehicle close to a wall, in an area where there is at least 7.62 meters (25 feet) of space behind it (excluding the car length).
2. On the wall, draw a line from the ground to the approximate center point of the headlight. Repeat for the other headlight. This will create your Y axis lines.



AIMING GUIDLINES (CONTINUED):

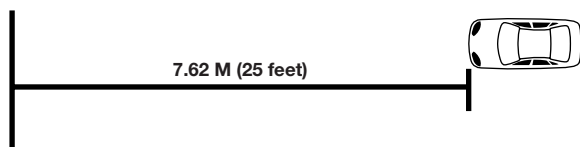
3. Connect the center points between headlights in a straight line, using chalk or tape. This will create your X axis (horizontal) line. **NOTE: Use a straight edge and a level to make sure this line is straight.**



4. Extend your vertical, Y (vertical) axis lines up approximately 3 feet. Your lines should match the diagram below, when looking at the lines straight on.

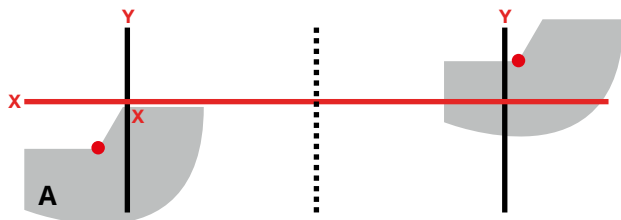


5. Reverse your vehicle in a straight line so that the front of the headlights are 7.62 meters (25 feet) back from the wall.

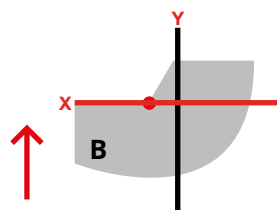


The goal of this sheet is to aim BOTH of your headlights so that the **Alignment Point** is at the crossection of the horizontal X and vertical Y lines you have drawn. The following directions illustrate the process and proper aiming of headlights.

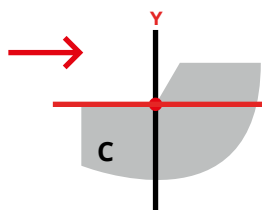
6. When you first turn on your vehicle after installing your headlights, the **Alignment Points** may be positioned differently than shown and will likely be aimed differently from each other.



7. Using the alignment mechanisms in your vehicle, adjust one headlight vertically until the Alignment Point is even with the X axis.



8. On the same headlight, adjust horizontally until the **Alignment Point** is even with the Y axis.



9. Repeat this process on the other headlight. Both headlights should match the diagram below, where the **Alignment Point** is even with the point where the X and Y axis crosses.

