

Dimensions are for reference only.

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.

Technical Specifications

8700 Evolution 2-12/24V
12-24V DC Input
9-32V DC Operating Voltage
3.00 Amps (High Beam); 2.00 Amps (Low Beam) @ 12V DC
1.60 Amps (High Beam); 1.10 Amps (Low Beam) @ 24V DC
Raw Lumen Output: 1,770 (Low Beam); 2,610 (High Beam)
Effective Lumen Output: 750 (Low Beam); 1,150 (High Beam)
Transient Spike Protection: 150V Peak @ 1 HZ-100 Pulses

Wiring

Black = Ground
White = High Beam
Yellow = Low Beam

Standards Compliance

Buy America Compliant CMVSS 108
FMVSS 108 Sealed to IP67
DOT-Compliant ECE Reg. 112 (Class B - ECE Versions Only)

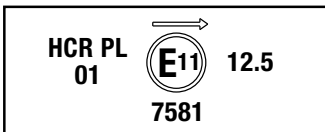


Lamp Identification

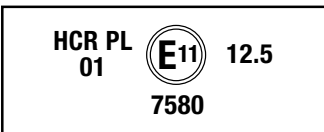
DOT RHT Version



ECE LHT Version



ECE RHT Version



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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

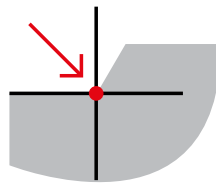
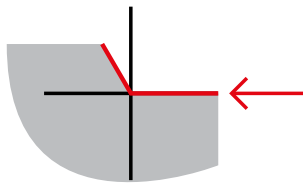
OPTIONAL SUPPLIES:

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

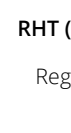
KEY TERMS:

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

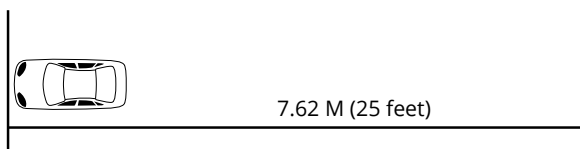


RHT (Right Hand Traffic):
DOT (and some ECE)
Regulation countries like
the United States

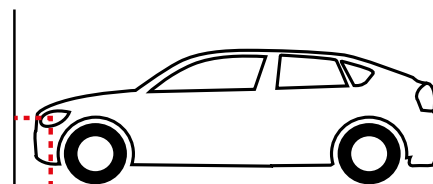
The following instructions are illustrated for RHT vehicles. Aiming for LHT vehicles will be mirrored to what is shown.

AIMING GUIDELINES:

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.



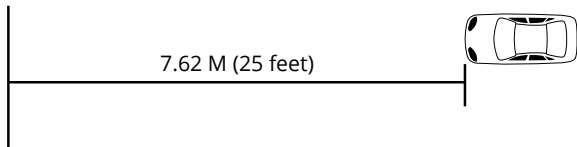
3. Connect the center points between headlights in a straight line, using chalk or tape. This will create your X axis (horizontal) line.
NOTE: Use a straight edge and a level to make sure this line is straight.



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.

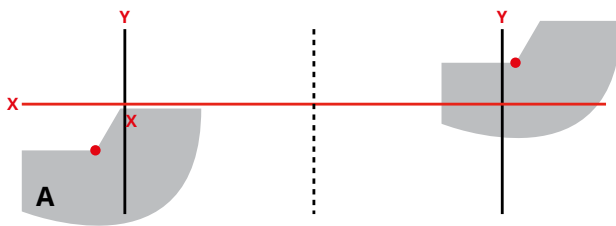


5. Reverse your vehicle in a straight line so that the front of the headlights are 7.62 meters (25 feet) back from the wall.

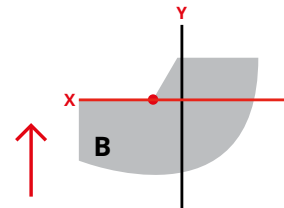


The goal of this sheet is to aim BOTH of your headlights so that the **Alignment Point** is at the crosssection of the horizontal X and vertical Y lines you have drawn. The following directions illustrate the process and proper aiming of headlights.

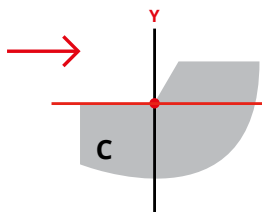
6. When you first turn on your vehicle after installing your headlights, the **Alignment Points** may be positioned differently than shown and will likely be aimed differently from each other.



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.

