

INSTALLATION INSTRUCTIONS

⚠ WARNING

To properly install this headlight you should have a good understanding of automotive electrical procedures and systems, and proficiency in the installation of headlights. **IF YOU DO NOT, PLEASE SEEK PROFESSIONAL ASSISTANCE.**

BEFORE INSTALLATION:

Estimated Time:	30 minutes
Tools Needed:	Screwdriver
Wire Functions:	Black = Ground Red = Power
In the Box:	(x1) Model 8415 Evolution Headlight
Input Voltage:	12-24V DC
Operating Voltage:	10-30V DC

PRE-INSTALLATION INSTRUCTIONS:

1. Read all safety notes and mounting guidelines before installing the product. Verify that all parts listed under "In the Box" are present and complete.
2. Inspect the product for damage. DO NOT install the product if there is any damage. Contact the authorized retailer where you purchased it to initiate a warranty claim if there is damage.
3. Verify that all power supply and/or charging systems comply to the specified voltage limits for the light.

REGULATORY COMPLIANCE:



PRODUCT WARRANTY:

If you have issues with a J.W. Speaker product, please contact the authorized retailer where you purchased it.

INSTALLATION INSTRUCTIONS:

1. Turn off the vehicle and disconnect the battery.
2. Remove the existing headlights from the bumper. Be careful not to damage the bumper and keep all hardware that attaches the headlight to the vehicle.
3. Unplug the connector of the existing headlight.
4. Firmly connect the vehicle's connector into the back of the headlight. If none exists, you will need a Packard #12110293 harness to connect to the 8415 Evolution headlight for the high/low version, or Packard #15300027 for the low beam only version.
5. Lay and secure wires to avoid any pulling or abrasion that may damage the wires or light.
6. Install the headlight with the existing hardware, making sure the J.W. Speaker logo is legible/right-side up.

7. Aim the lights (continued on next page).



HEADLIGHT AIMING INSTRUCTIONS

FOR LOW AND HIGH/LOW HEADLIGHTS

⚠ WARNING

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 AIMING:

1. Vehicle is being aimed on a level surface.
2. All tires are properly inflated.
3. Vehicle is at normal driving height.

REQUIRED SUPPLIES:

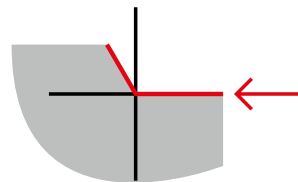
- Tape or chalk to mark lines
- Corresponding tools for your vehicle's aiming mechanism

OPTIONAL SUPPLIES:

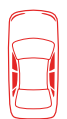
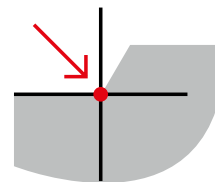
- Laser level to expedite the aiming process and will help to increase accuracy in aiming

KEY TERMS:

Kink (elbow): The top of the pattern that is the cut-off 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

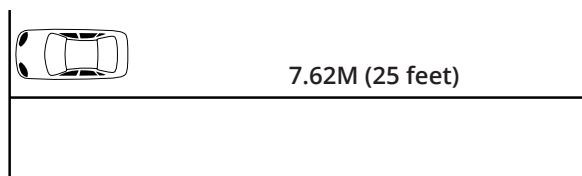
RHT (Left Hand Traffic):
DOT (and some ECE)
Regulation countries like
the United Kingdom



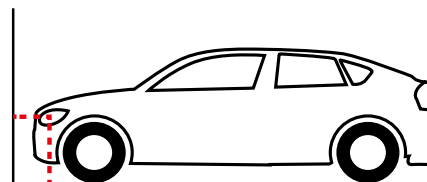
*The following instructions are illustrated for RHT vehicles.
Aiming for LHT vehicles will be mirrored to what is shown.*

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.



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AIMING GUIDELINES 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.

