



INSTRUCTION INFORMATION

Estimated Time	30 minutes
Tools Needed	Phillips screwdriver Flat blade screw driver T15 Torx driver
In the Box	(x2) Model 8700 Evolution J2 Headlights (Kit)
Wire Functions (All)	Black = Ground White = High Beam Yellow = Low Beam
<i>ECE Versions Only</i>	<i>Red = Front Position</i> <i>Blue = Daytime Running Light (DRL)</i>
Input Voltage	12V DC
Operating Voltage	9-16V DC

Regulatory Compliance



To properly install this light 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.**

Pre-Installation Guidelines

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.

PRODUCT WARRANTY:

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

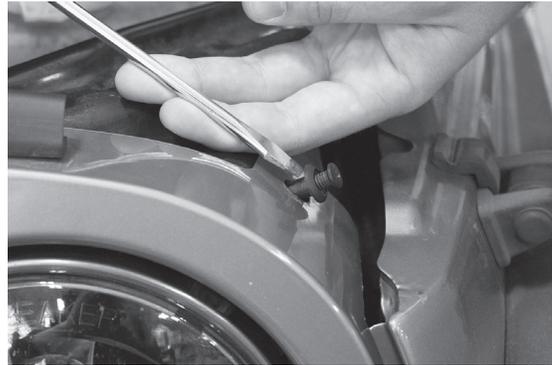
INSTRUCTIONS BEGIN ON THE NEXT PAGE

Installation Instructions

1. Loosen the Phillips head screws in the fasteners that secure the top of the grill. **NOTE:** Some model years have fasteners that have a center post to pry out instead of screws.



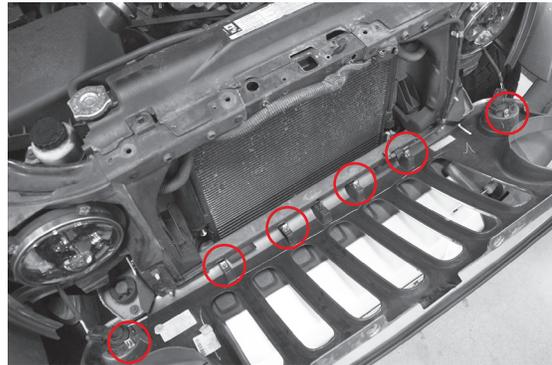
2. Carefully remove the 6 fasteners by prying them up at the base using a flat blade screw driver. **Save the 6 fasteners.**



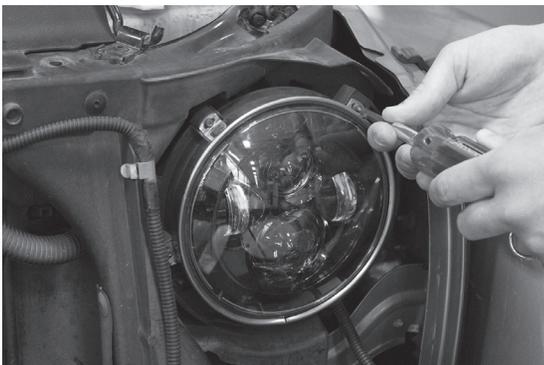
3. **Carefully** remove the front grill by pulling the **TOP** portion forward until it unsnaps. Start near one headlight and work across to the other light.



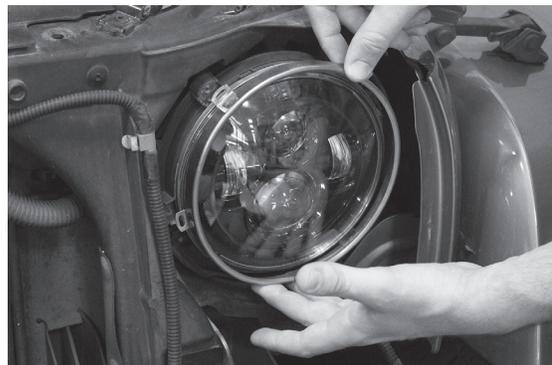
4. **Carefully** unsnap the clips at the bottom of the grill and let it rest across the bumper. **NOTE:** These clips may break if not treated with care.



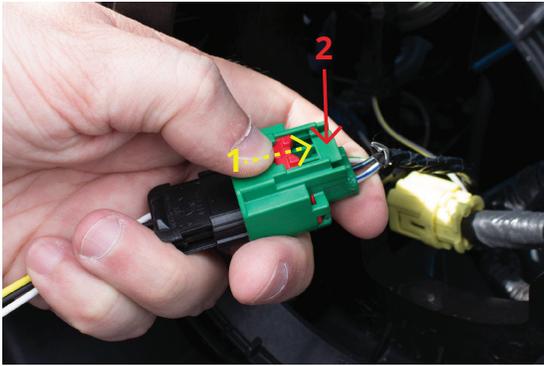
5. Use a T15 Torx driver to remove the 4 screws holding the headlight retaining ring. **Save the 4 screws.**



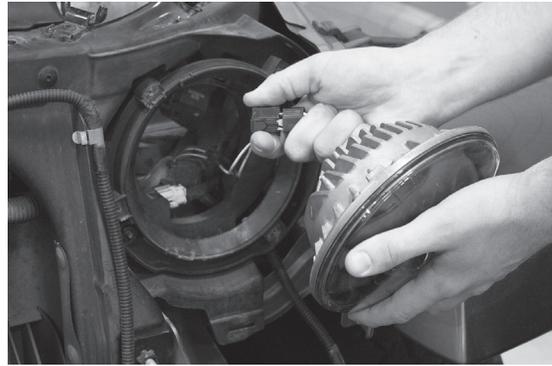
6. Remove the retaining ring and headlight from the mounting ring.



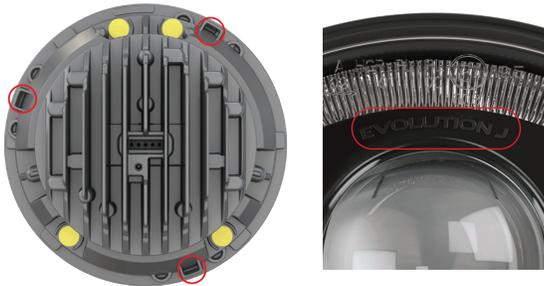
7. Unplug the existing headlight. **NOTE:** On newer models there is (1) a red button on the plug that must be pushed up, and (2) a green button that must be pressed and held to unplug the existing lamp.



8. Plug in the new LED headlight and install it into the mounting ring. **NOTE: On ECE versions, connect the RED wire for Front Position and the BLUE wire for DRL.**



9. Align the alignment lugs on the lamp with the slots in the ring. The lamp will only fit in one orientation, and from the front the "Evolution J" text should be readable at the top.



10. Re-attach the retaining ring. Align all 4 tabs on the ring with the screw holes. It will only fit in one orientation. Install 4 screws from step 5 using the T15 Torx driver.

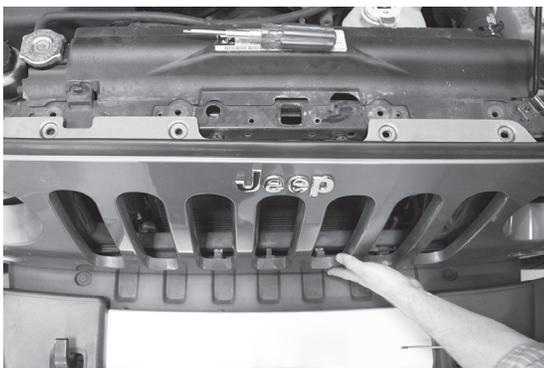


11. Repeat steps 5 - 10 on the second lamp.

12. Attach the ground to the battery and test the lamp function.

13. Re-attach the front grill by carefully pressing on the grill until the clips lock back into place.

14. Re-install the 6 fasteners from step 2. The screw in the fastener must be fully extended as the fasteners are pressed into place. Tighten the 6 Phillips head screws into the fasteners. **Note: Do not over tighten the screws.**



16. AIM THE LIGHTS

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

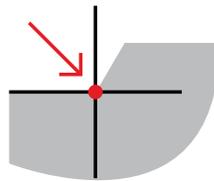
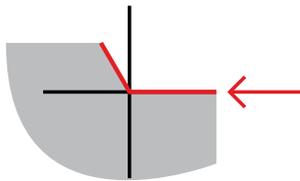
OPTIONAL SUPPLIES:

- 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

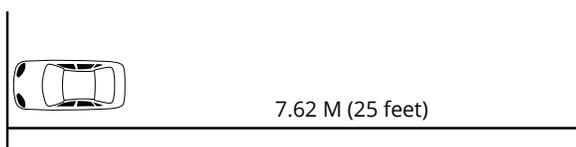


RHT (Right Hand Traffic):
DOT (and some ECE) Regulation countries like the United States

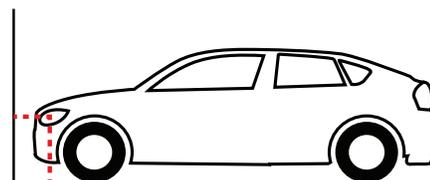
The following instructions are illustrated for RHT vehicles. Aiming for LHT vehicles will be mirrored to what is shown.

AIMING 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.



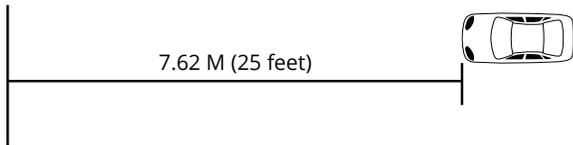
3. Connect the center points between headlights in a straight line, using chalk or tape. This will create your X axis (horizontal) line.
NOTE: Use a straight edge and a level to make sure this line is straight.



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.

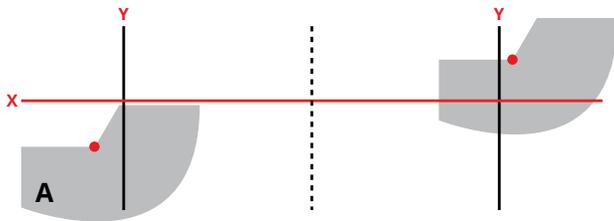


5. Reverse your vehicle in a straight line so that the front of the headlights are 7.62 meters (25 feet) back from the wall.

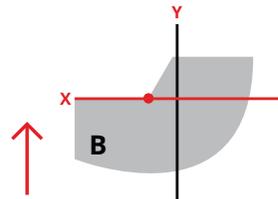


The goal of this sheet is to aim BOTH of your headlights so that the **Alignment Point** is at the crosssection of the horizontal X and vertical Y lines you have drawn. The following directions illustrate the process and proper aiming of headlights.

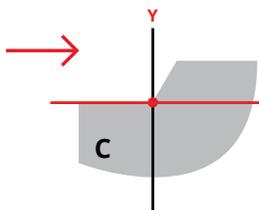
6. When you first turn on your vehicle after installing your headlights, the **Alignment Points** of the **LOW BEAM** may be positioned differently than shown and will likely be aimed differently from each other.



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.

