

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: 60 minutes

Tools Needed: Adjustable Wrench

Wire Functions:
 Black = Ground
 White = High Beam
 Yellow = Low Beam
 Red = Front Position*

**Front position light is a requirement outside the United States. If your bike is operated in the United States you do not need to connect this wire unless your bike is equipped with a front position light.*

In the Box: (x1) Model 8690 Headlight

Input Voltage: 12V DC

Operative Voltage: 9-16V DC

REGULATORY COMPLIANCE:



PRODUCT WARRANTY:

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

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.

INSTALLATION INSTRUCTIONS:

1. Turn off the motorcycle and disconnect the battery.
2. Remove the existing headlight from the motorcycle. Be careful not to damage the vehicle and keep all hardware that attaches the headlight to the motorcycle.
3. Check condition of all wires, connectors, mating connectors, or gaskets. All connections should be adequately protected against moisture. Shrink tubing is recommended.
4. Lay and secure the wiring so that no pulling or abrasion can occur. Proper installation requires there to be a little slack near the lamp to avoid pulling on the connector (which can create a path for water ingress). Wires should be adequately secured to avoid damage.
5. Carefully connect the wires or connector using the "Wire Functions" and "Voltage" information above. **If the bike is not equipped with Front Position you should; terminate, seal, or electrical tape the wire end to prevent corrosion and/or shorting.**
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).**

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MOTORCYCLE

AIMING INSTRUCTIONS

⚠ WARNING

A motorcycle's automatic-on headlight feature provides increased visibility of the rider to other motorists. Poor visibility of the rider to other motorists can result in serious injury or even death.

Remember to check the motorcycles headlight beam pattern for proper height and lateral aim:

- When the new owner takes delivery of the motorcycle.
- When there is a change in load (adding luggage, etc.).

BEFORE INSTALLATION:

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

REQUIRED SUPPLIES:

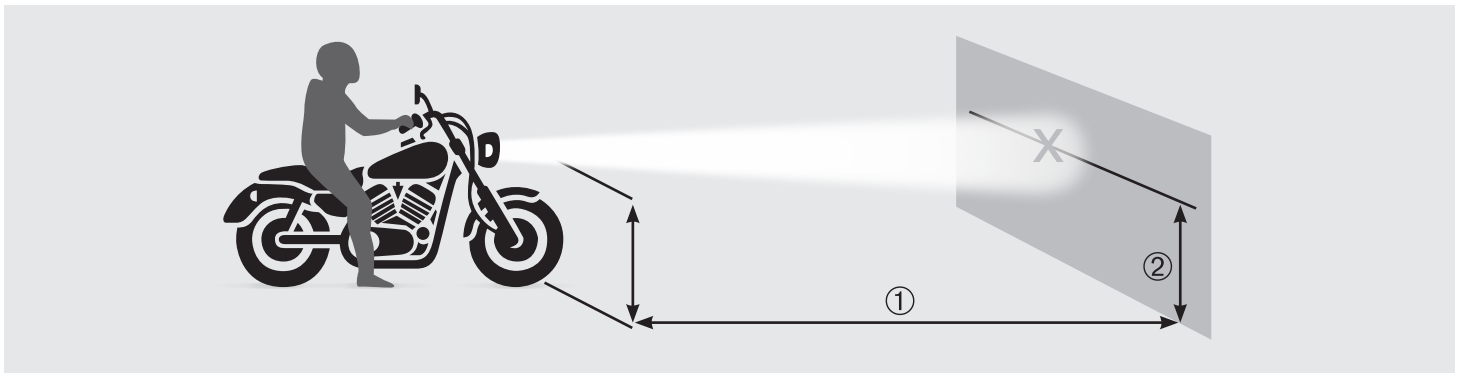
- Tape or chalk to mark lines.
- Correct tools for your motorcycles aiming mechanism.

OPTIONAL SUPPLIES:

- Laser level to help increase accuracy in aiming.

HEADLIGHT AIMING PROCEDURE:

1. Position motorcycle 25 feet (7.62) meters away from a screen or wall ①. Measure the distance from directly below the front axle to the base of the screen or wall.
2. On the screen or wall, draw a line from the ground to the approximate center point of the headlight ②.
3. Load motorcycle with rider, passenger (if normally present) and any other cargo normally carried.
4. Stand motorcycle upright with both tires resting on the floor and with front wheel aligned directly forward towards the screen or wall.
5. Turn ignition/headlight switch to the IGNITION position. Set handlebar headlight switch to the HIGH beam position.
6. Check light beam for proper height aiming:
 - a. The main beam of light (broad, flat pattern of light) should be centered equally above and below horizontal line on screen or wall.
 - b. Main beam of light should be directed straight ahead. Properly adjusted headlights project an equal area of light to right and left of center.
7. Adjust headlight aiming if necessary.



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