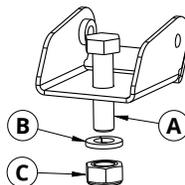




### INSTRUCTION INFORMATION

<b>Estimated Time</b>	15 minutes
<b>Tools Needed</b>	9/16" Wrench
<b>In the Box</b>	(x2) Model TS3001R Auxiliary Light



**Pre-Installed on Light:**

- (x4) M8-1.25"x25 Aiming Screws
- A.** (x2) M10-1.50 x 40 Mounting Bolts
- B.** (x2) M10 Split Lock Washers
- C.** (x2) M10-1.50 Waxed Nuts

*Single lights come with half of the above parts*

<b>Wire Functions</b>	Black = Ground Red = Power
<b>Input Voltage</b>	12-24V DC
<b>Operating Voltage</b>	9-32V DC

### Regulatory Compliance



### Installation Guidelines

**BEFORE INSTALLATION:**

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 distributor 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:**

**Your warranty for J.W. Speaker products is with the authorized J.W. Speaker retailer where you purchased the product.**

If you have issues with the product, please contact the authorized retailer where you purchased the product, not J.W. Speaker.

### Product Specifications

For a complete list of product specifications, scan the QR code to the right, or visit [www.jwspeaker.com](http://www.jwspeaker.com) and search "Model TS3001R."



**INSTALLATION:**

1. Turn off the vehicle and disconnect the power supply.
2. Ensure that the mounting location is a FLAT, SOLID surface of the same (or larger) size as the bracket or light. This will prevent warping or distortion that can cause cracking or damage to the light and/or bracket. There should also be a minimum of 1.25mm of space around the lamp in all directions.
3. Secure the light to the mounting surface then aim the light using the aiming screws (**directions on next page**).
4. Check condition of all wires, connectors, mating connectors, and gaskets. All connections should be adequately protected against moisture. Shrink tubing is recommended.
5. 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.
6. Carefully connect the wires using the "Wire Functions" and "Voltage" information above. Push firmly on the connector to ensure that it is properly mated with the lamp, creating a seal to protect against water ingress.
7. Aim the lights (instructions available online at [www.jwspeaker.com/resources](http://www.jwspeaker.com/resources)).

**CAUTION:**

- A) STUDY THE COMPLETE INSTRUCTIONS AND SCHEMATIC BEFORE ATTEMPTING TO INSTALL WIRING.** Planning your installation strategy prior to starting will minimize problems in placement of the relay and feeding wires through the firewall. (If after reading these instructions, you have questions or concerns about installing the kit yourself, please consult a qualified professional.)
- B)** Remove ground connections from the battery before attempting to connect electrical wires.
- C)** All wires should be secured through existing wire clamps or by taping or clamping to existing wires or cables.
- D)** To be legally compliant, auxiliary lights must be controlled in a way that they are only lit when the headlights are on. Daytime running lights should only be lit when the headlights are off.

**WIRING INSTRUCTIONS:**

**STEP 1:** Attach the rocker switch to a place where it is easily reached from the driver seat. Suggested hole size 13/16".

**STEP 2:** Locate an accessible place in the engine compartment to mount the relay.

**STEP 3:** Feed a 16 gage wire from the relay mounting position to the switch. Use an existing hole around the steering column or speedometer cable. Do not use a hole with a moving part such as a clutch linkage. Crimp the supplied terminals to either end of the wire. Attach the wire between the switch and relay terminal #85.

**STEP 4:** Trace the wires running from the headlights back as close as possible to the firewall. To wire the kit correctly, it must be connected to the wire that powers the appropriate headlight function. Turn on the low beams and test for voltage or continuity. The hot wire will be the low beam. (Caution: Do not test the headlamp wires with the high beams turned on, since both wires may be hot.)

**STEP 5:** Attach a second 16 gage wire to the switch using supplied terminals and feed the second end through the firewall to the location identified in step 4. Use an existing hole around the steering column or speedometer cable. Do not use a hole with a moving part such as a clutch linkage.

**STEP 6:** Splice the second wire from the switch into the wire appropriate for the lamp function. Driving lamps use the high beam wire. Fog and DRL lamps use the low beam wire.

**STEP 7:** Connect relay terminal #86 to ground using a 16 gage wire and the supplied terminal and grounding ring.

**STEP 8:** Attach the positive wires from the lamps to the relay using the supplied terminals. Use relay terminal #87 for fog and driving lights or terminal #87a for daytime running lights.

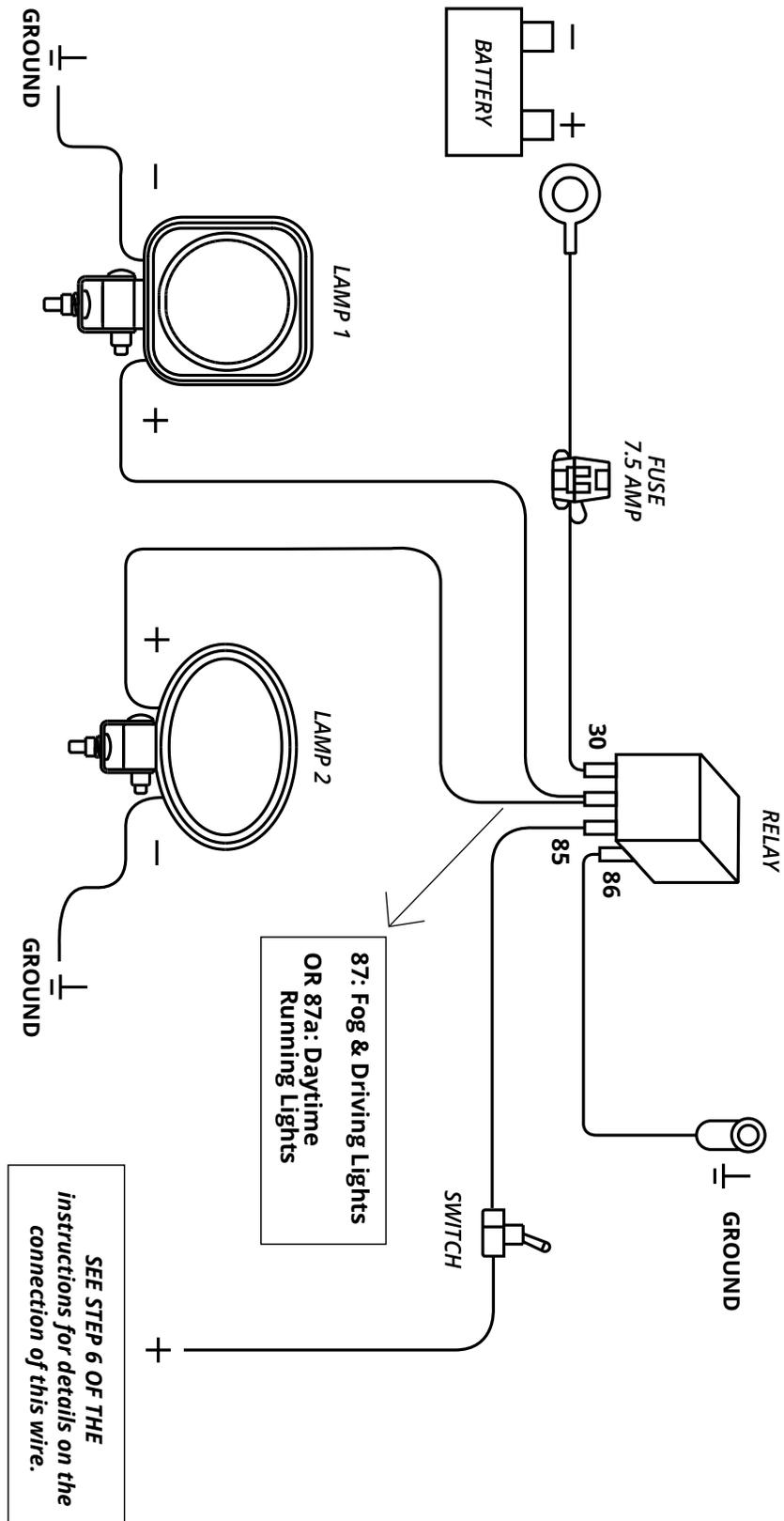
**STEP 9:** Connect the ground wires from the lamp to an automotive ground. (Note: Some bumpers may not be adequately grounded. Ground the lamp to the chassis for a more robust connection.)

**STEP 10:** Attach relay terminal #30 to the fuse holder using the supplied terminals and a 16 gage wire. Feed wire from the fuse holder to the battery and attach to the positive terminal using the supplied 8 mm ring terminal.

**STEP 11:** Secure all wires and install the 7.5 amp fuse into the fuse holder.

**STEP 12:** Re-connect the battery ground cable.

**SEE REVERSE FOR INSTALLATION DIAGRAM**



**SEE REVERSE FOR INSTALLATION INSTRUCTIONS**

**SEE STEP 6 OF THE instructions for details on the connection of this wire.**