

INSTALLATION INSTRUCTIONS

Headlight Auto-Off Relay – Part Number 14003

Congratulations on your purchase of this headlight power-down relay. The addition of this kit will ensure that your headlights, running lights, and dash lights turn off when you turn off the engine. No more dead battery because you forgot to turn off the lights!

Parts Included in this Kit

2-Power relays	1-Black wire assembly	1-Red wire assembly
1-Blue wire assembly	1-Orange wire assembly	1-T-Tap
1-Male 1/4" Connector	2-Zip-ties	1-Small crimp ring
2-1" Shrink tubing		

Preparation

You will first need to remove the headlight connector and move it to a place you can work on it. You will need to remove and replace two of the wires from this connector. To remove the wires, you will need to insert a very small screwdriver or paperclip between the connector housing and the rounded part of the terminal to be removed; in the center of the terminal is a small tang which needs to be straightened so you can remove the terminal by lightly pulling on the wire.

Electrical Connections

Power enters the headlight switch from two locations. One, a heavy red wire, powers the headlights and dash lights. The other, a smaller orange or black/orange wire, powers the parking lights. The two relays will be wired so that they are energized when the key is in the "On" position and allow electricity to pass through the red and orange wires to the headlight switch. The headlight switch will still operate normally, but if the key is off, no power will flow to the switch, making it impossible for the headlights, parking lights, or dash lights to drain the battery.

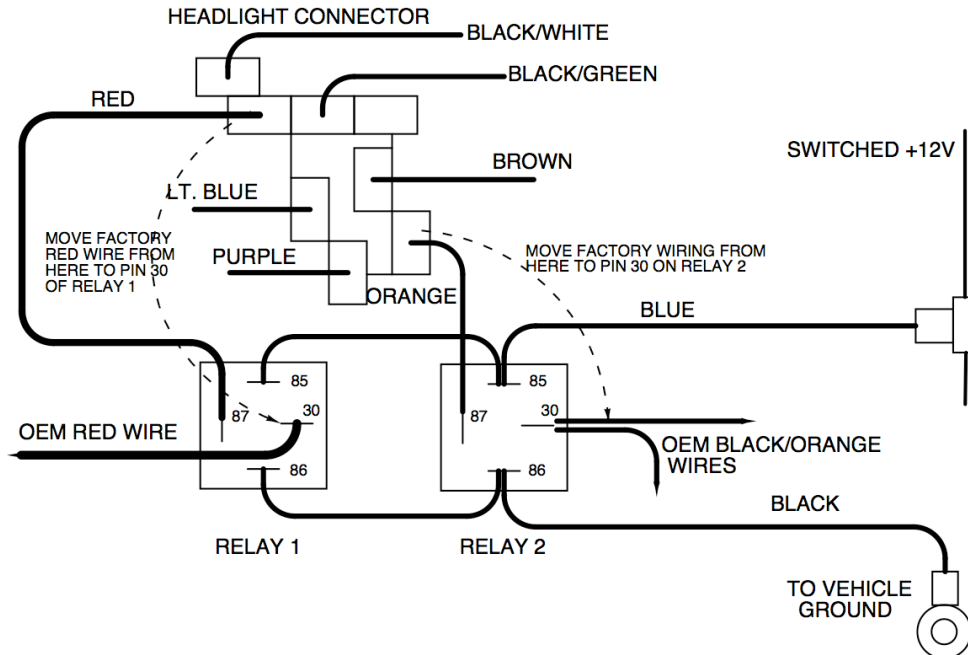


Figure 1

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Red Wire - Remove the factory OEM red wire from the headlight switch connector and place one piece of shrink tubing over the terminal and wire with one end flush to the terminal end. Heat the tubing to shrink it into position. Attach to relay 1, pin 30. Attach the loose red wire from terminal 87 to the headlight connector opening previously occupied by the factory red wire.

Orange Wire – Remove the factory black/orange wire from the headlight switch connector and place one piece of shrink tubing over the terminal and wire with one end flush to the terminal end. Heat the tubing to shrink it into position. Attach to terminal 30 of relay number 2. Route the loose orange wire from relay 2, pin 87 to the headlight connector opening previously occupied by the black/orange factory wire.

Reattach the headlight connector to the headlight switch and reinstall the headlight switch if you had to remove it.

Black Wire - Connect this wire to a vehicle ground. The small ring terminal can be used to attach this wire to a mounting bolt or another source of vehicle ground.

Blue Wire - You will need to find a wire which is powered up when the key is in the “on” position. The radio power wire is one possibility. Very little current will be drawn from this wire. Attach the supplied T-tap connector to this power wire. Cut the blue wire to length, strip the end and attach the 1/4” male connector. Insert this connector into the T-tap opening.

Secure the relays out of the way with the supplied zip ties.

Troubleshooting

Headlights don't turn on:

- Key not on
- T-tap for Blue wire not connected to switched power source
- Blue wire not attached to T-tap
- Factory Red wire not connected to relay
- Kit red wire not attached to headlight connector
- Black wire not connected to a good ground

Headlights don't turn off when the key is turned off:

- T-tap not connected to a switched power source

Warranty:

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