

Installing the STS-4CH Harnesses Into Your 2008+ Challenger



The STS-4CH is a welcome addition to your 2008+ Dodge Challenger. The system comes complete with pre-wired harnesses and associated wiring -- there is nothing else to buy.

On a stock Challenger, only the fender lamps function as brake/turn/tail light lamps. The lamps on the trunk lid only function as tail lights. The STS-4CH kit converts the trunk lights into full brake/turn/tail lights that allow sequencing of all four sections.

CONTENTS OF KIT

Lay out the contents of the kit and identify each part::

A - Tail Light Harness

B - Sequencers

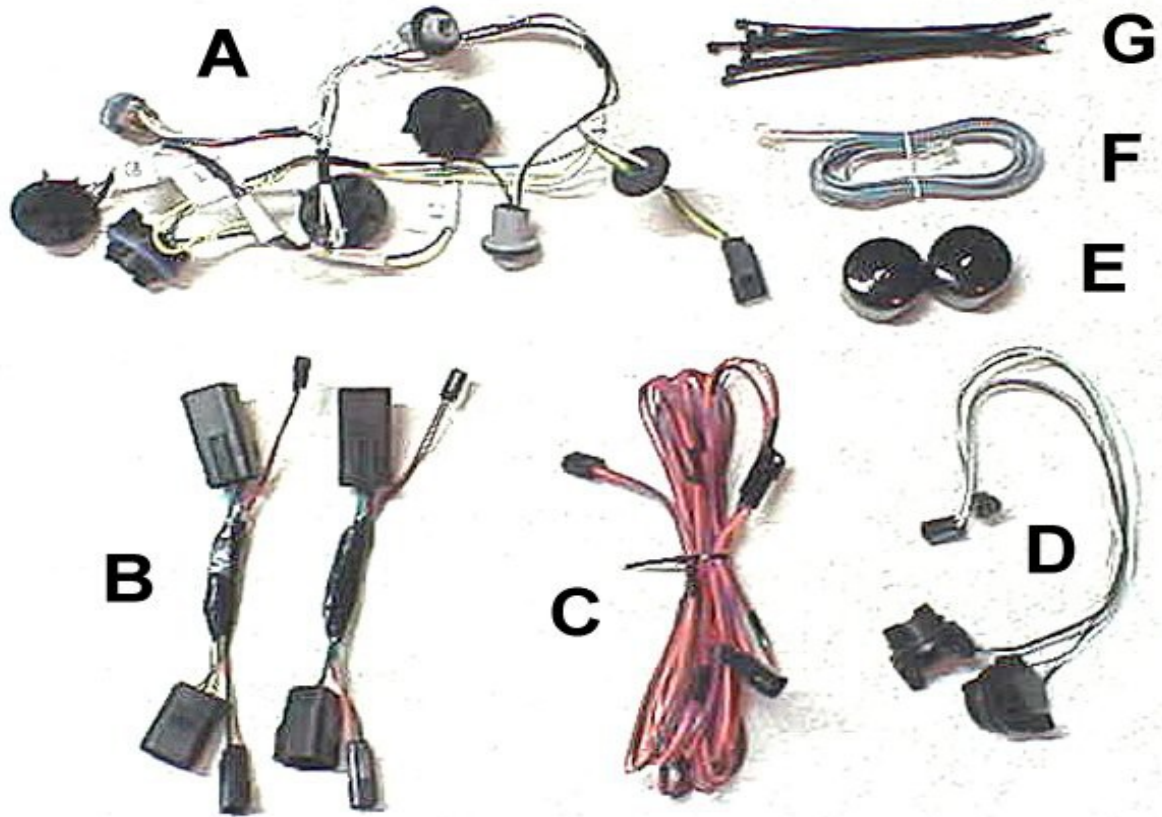
C - Trunk Lid Jumper

D - Socket Pigtails

E - Socket Caps

F - Phone Cord

G - Cable Ties



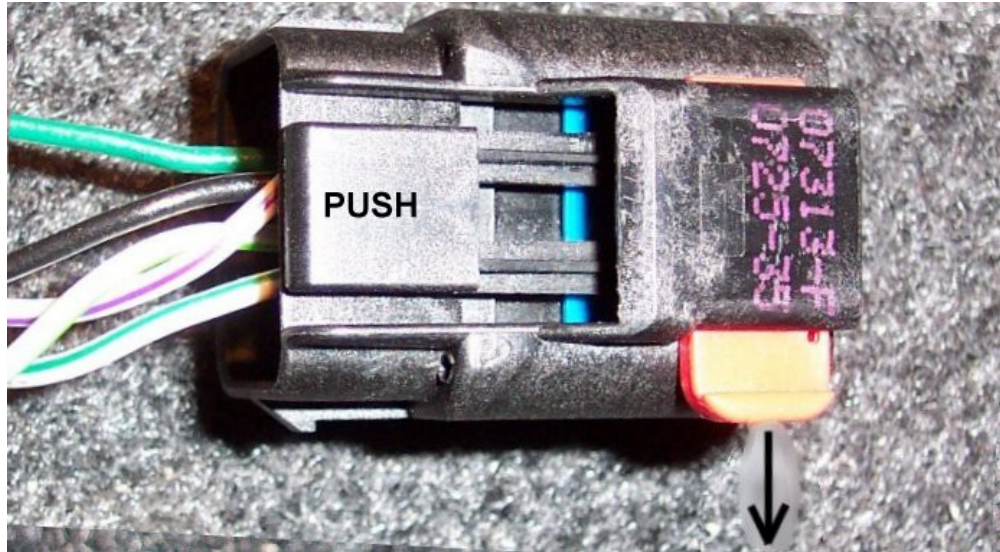
INSTALLATION - FENDER TAIL LIGHT FIXTURE - RIGHT SIDE

NOTE: After installation, **BE SURE** to follow the **Testing procedure** located at the end of the instructions.

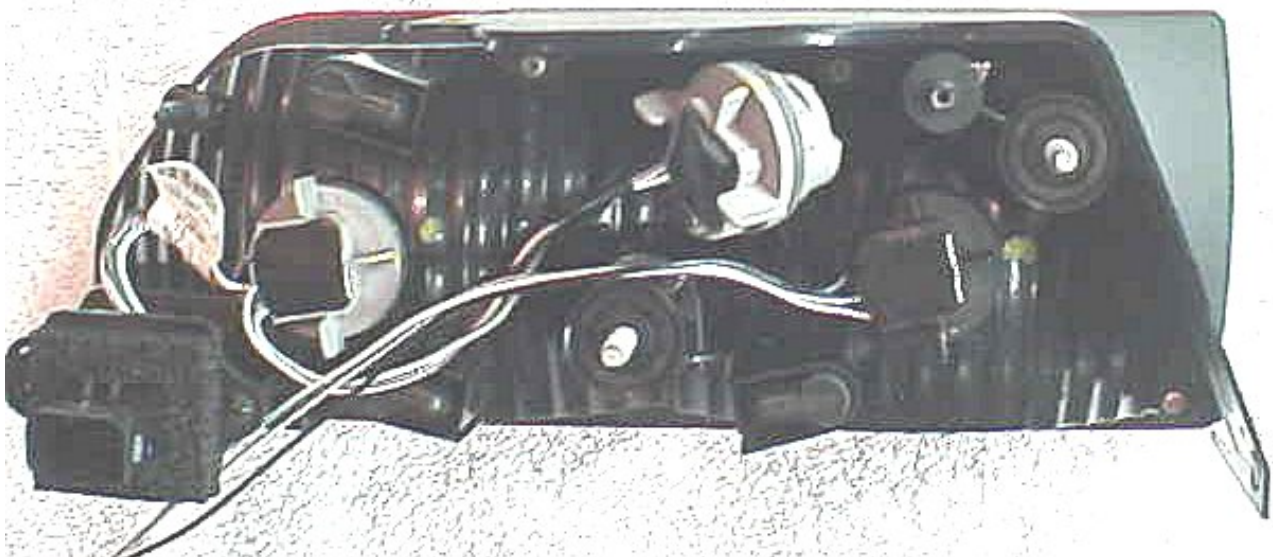
- 1) Remove the side panel above the tail light fixture by pulling the top toward the middle of the car.



- 2) Remove one plastic wing nut that holds the trunk liner. Peel the liner back to expose the harness connector. Slide the red locking tab out to unlock the harness connector, push the cam lock and carefully pull the connector off of the fixture.



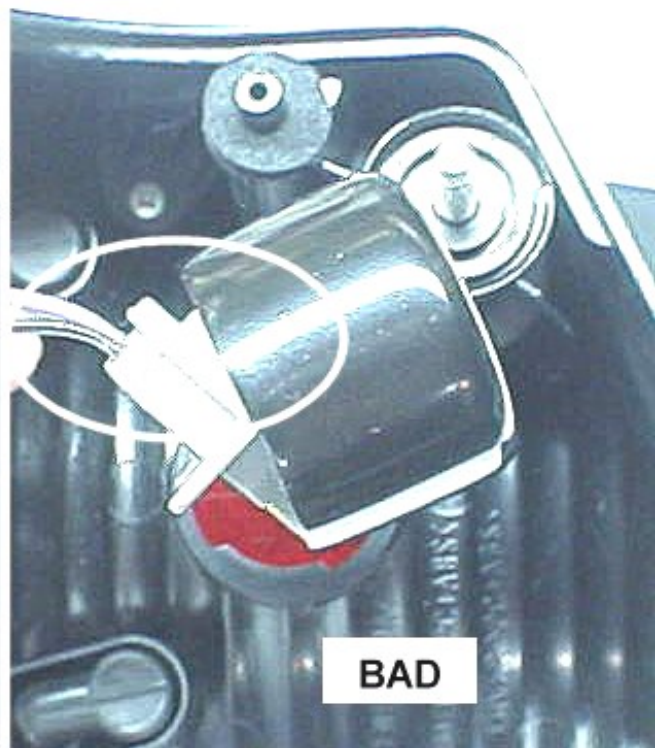
- 3) Remove the other wing nut that holds the tail light fixture. Remove the fixture and set it on a shop rag.
- 4) Looking at the rear of the fixture, remove the right side socket (furthest from the connector) and remove the #3157 lamp. Set the lamp aside. Select a Socket Pigtail (Part "D") from the kit (either one -- they are both the same). Install the lamp into the socket and install the socket into the vacant hole in the fixture.



- 5) Route the pigtail connector under the fixture gasket so that the wires are against the plastic fixture and NOT the metal car fender. Secure the wires inside the wire guide on the fixture.



- 6) Place one Socket Cap (Part "E") over the empty socket as shown below. Make sure it's on correctly and completely seals the socket. TIP: Place a piece of electrical tape over the cap to help keep it on.



- 7) Insert the fixture back into the car and set the covered socket in the void under the fender and orient it so the cap is UP. Secure the fixture with one wing nut. When re-mounting the fixture into the car, **be careful not to pinch any of the wires on the frame or mounting studs**. This can cause a short and **WILL VOID THE WARRANTY!**



INSTALLATION - FENDER TAIL LIGHT FIXTURE - LEFT SIDE

Repeat the above procedure on the left side of the car. If you have a sub-woofer installed, unplug it, remove the 10mm bolt and rock the sub-woofer to release the Velcro on the bottom of the unit.

INSTALLATION - SEQUENCERS

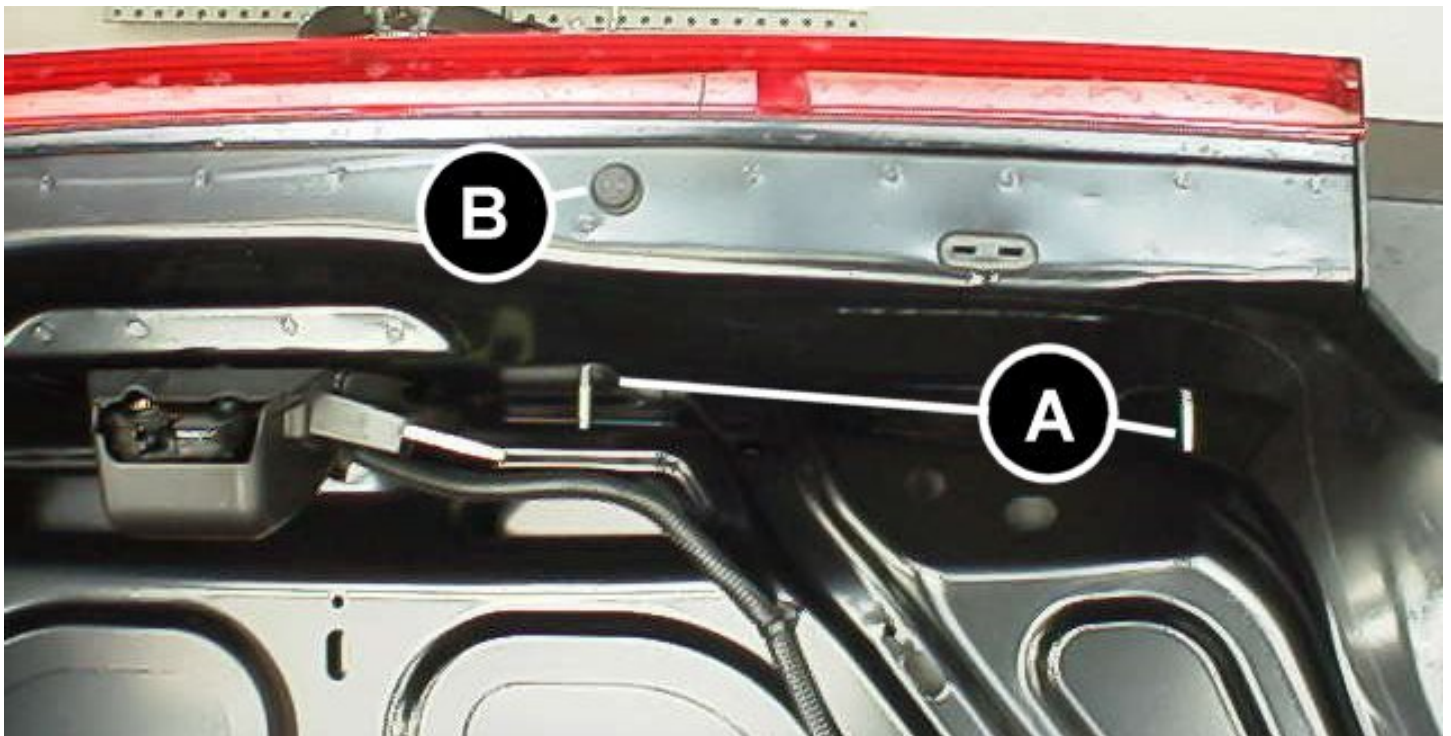
- 8) Select a Sequencer (Part B). You can use either one -- they are both the same.
- 9) On the left side of the car, connect the Challenger harness to the mating connector on the Sequencer. Connect the remaining connectors to the tail light fixture and the new socket pigtail. The small 2-pin connector will be open at this point.
- 10) On the right side of the car, connect the Challenger harness to the mating connector on the second Sequencer. Connect the remaining connectors to the tail light fixture and the new socket pigtail. The small 2-pin connector will be open at this point.
- 11) Find the Phone Cord (Part F) and unwrap it. Connect one end to the mating connector on the left sequencer. Stretch the cord to the right side of the car, and connect the other end to the mating connector on the right sequencer.

REMOVAL - TRUNK TAIL LIGHT FIXTURE

- 12) Remove the side panels by pulling down. Remove two T-20 Torx screws that secure the outboard ends of the trunk light panel (one on each side). These screws are found under the trunk lid about 2" inboard of the Phillips screws. Do not remove the Phillips screws from the tail light panel.



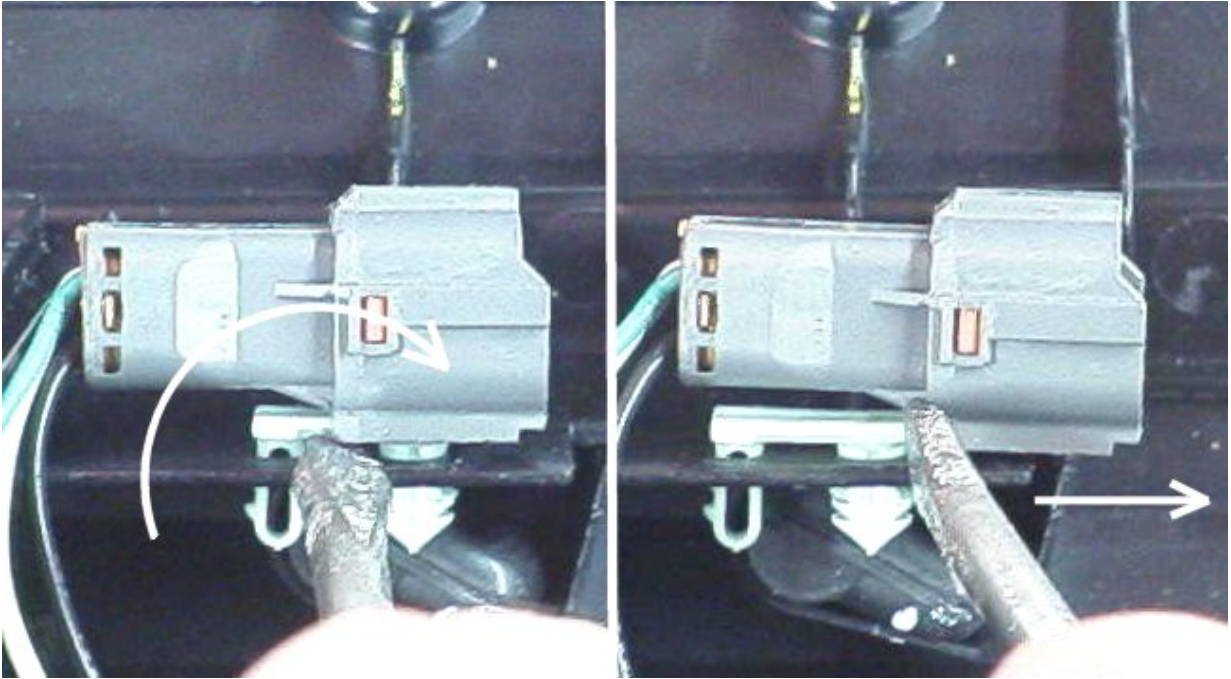
- 13) Remove four wing nuts (A) from the back side of the tail light. Remove 2 push pins (B) from the bottom of the panel.



- 14) Carefully pull the tail light panel away from the trunk lid. This bad boy is really held in tight, so you will have to pull **HARD**. Grasp one side with your fingertips and jerk it. Make sure you don't lose control, or you will pull the wiring out of the car! Unplug the connector and take the fixture to a work surface.

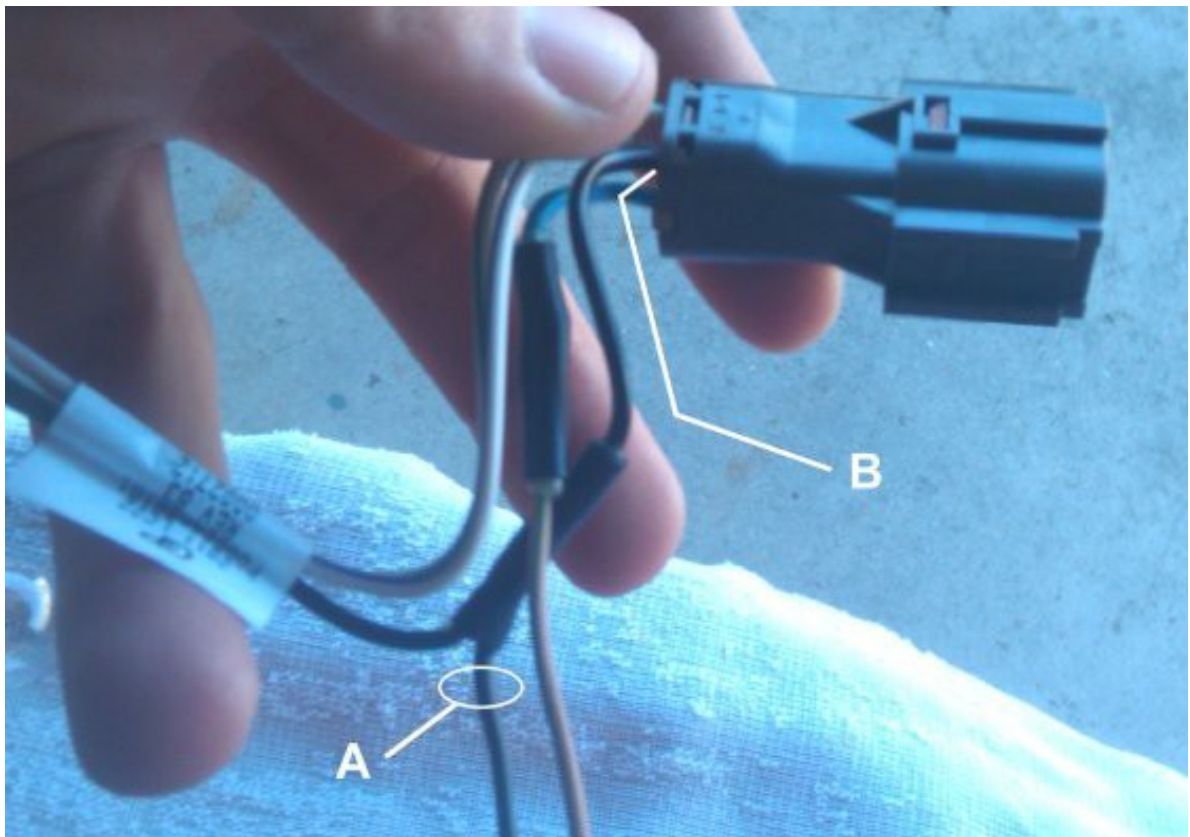
INSTALLATION - TAIL LIGHT HARNESS

- 15) Set the tail light panel on a shop rag with the sockets facing you. Orient the panel as if you are looking at the panel from inside the trunk. The left side of the panel will be on your right.
- 16) Remove the connector from the panel using a large screwdriver. Press lightly as shown and twist. The connector will slide off leaving the retainer in the fixture.

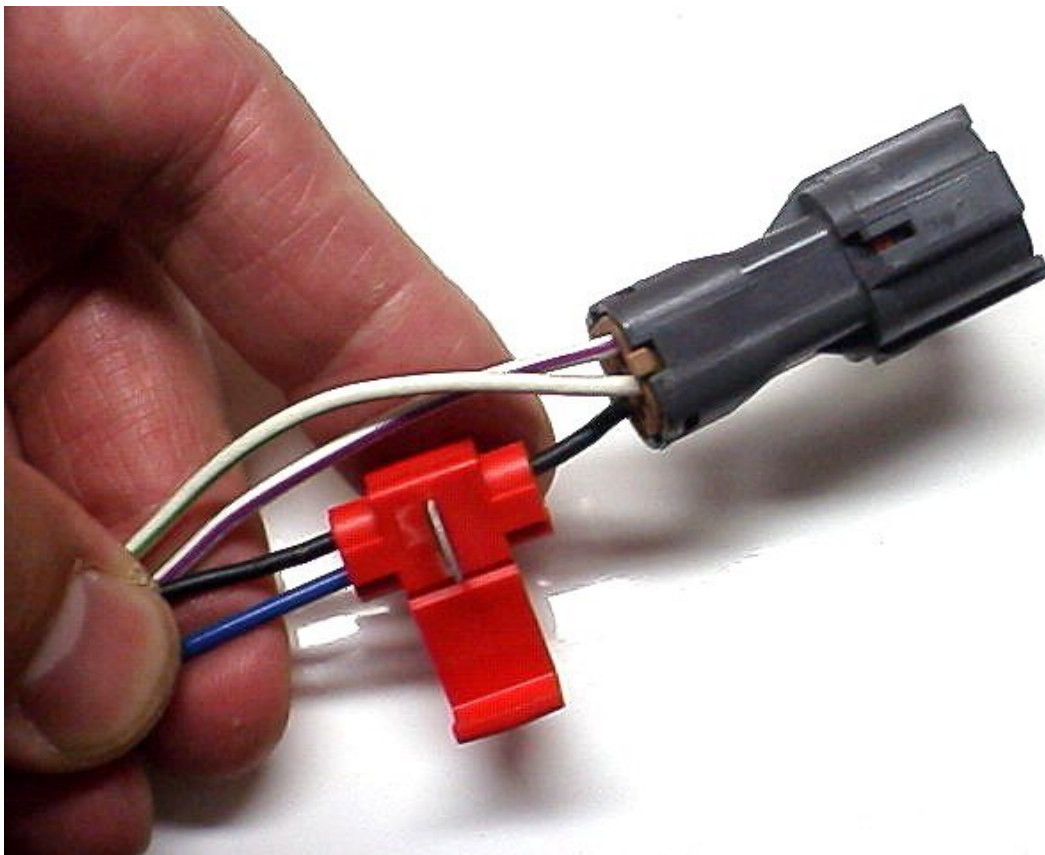


NOTE: If your car has a trunk release button on the rear spoiler, follow Steps 16A through 16E. If not, go directly to Step 17.

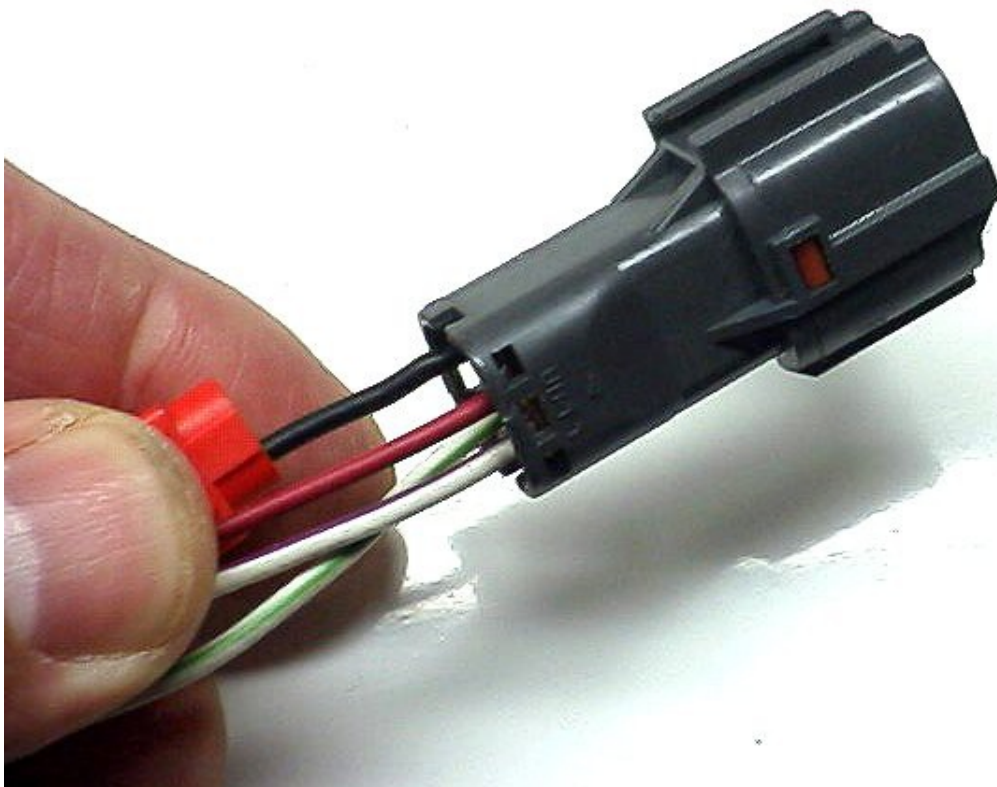
- A) On the OEM harness, cut the BLACK/GREEN wire coming from the trunk switch.
- B) On the OEM harness, cut the TAN/GREEN wire coming from the trunk switch (cut close to the connector).



- C) Find the new Tail Light Harness (Part A). Using the supplied quick-splice, connect the supplied BLUE wire to the BLACK wire on the new harness. Using a pair of pliers, squeeze the metal tab on the quick-splice until it is flush with the connector body. Then fold the cover over.

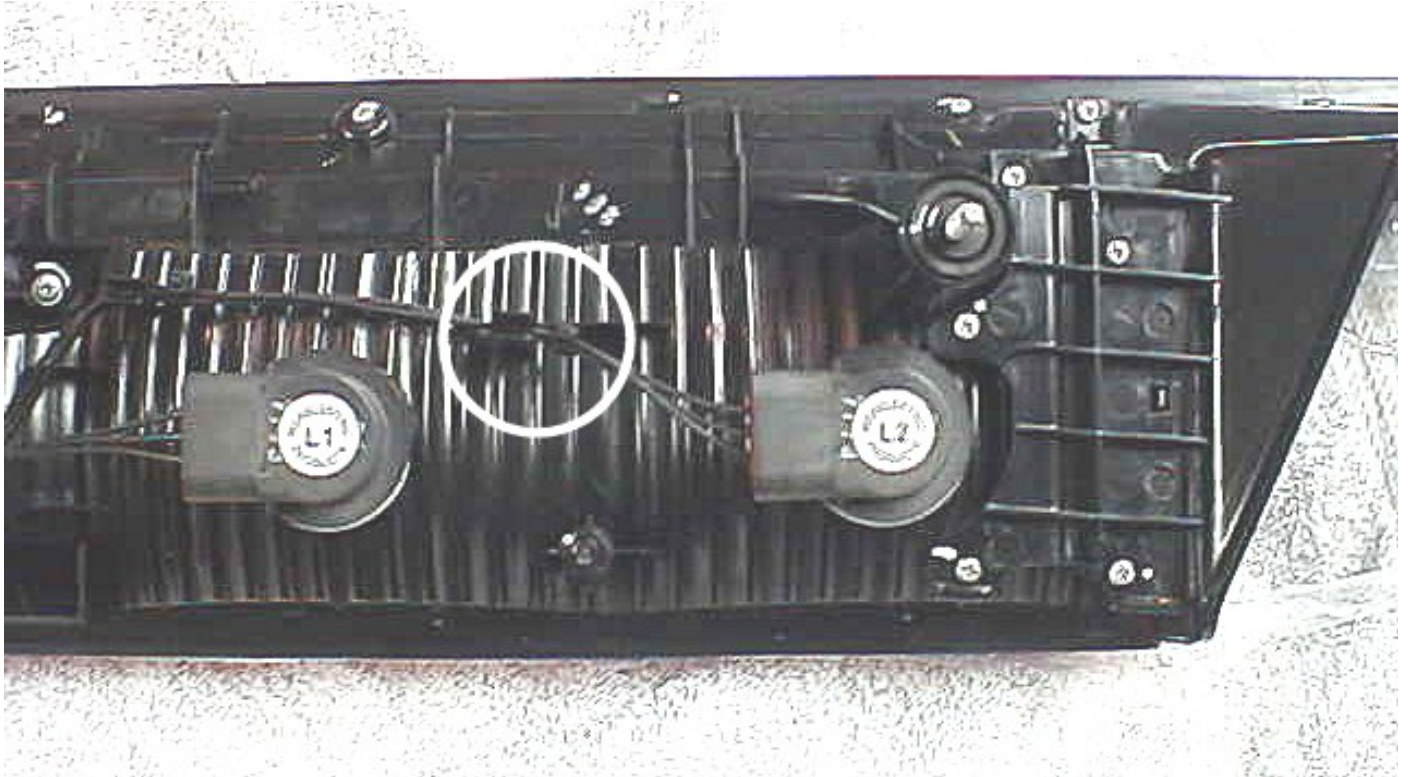


- D) There is a RED wire coming out of this connector. The end of this wire is taped to the harness. Pull the wire out of the tape so it is free.

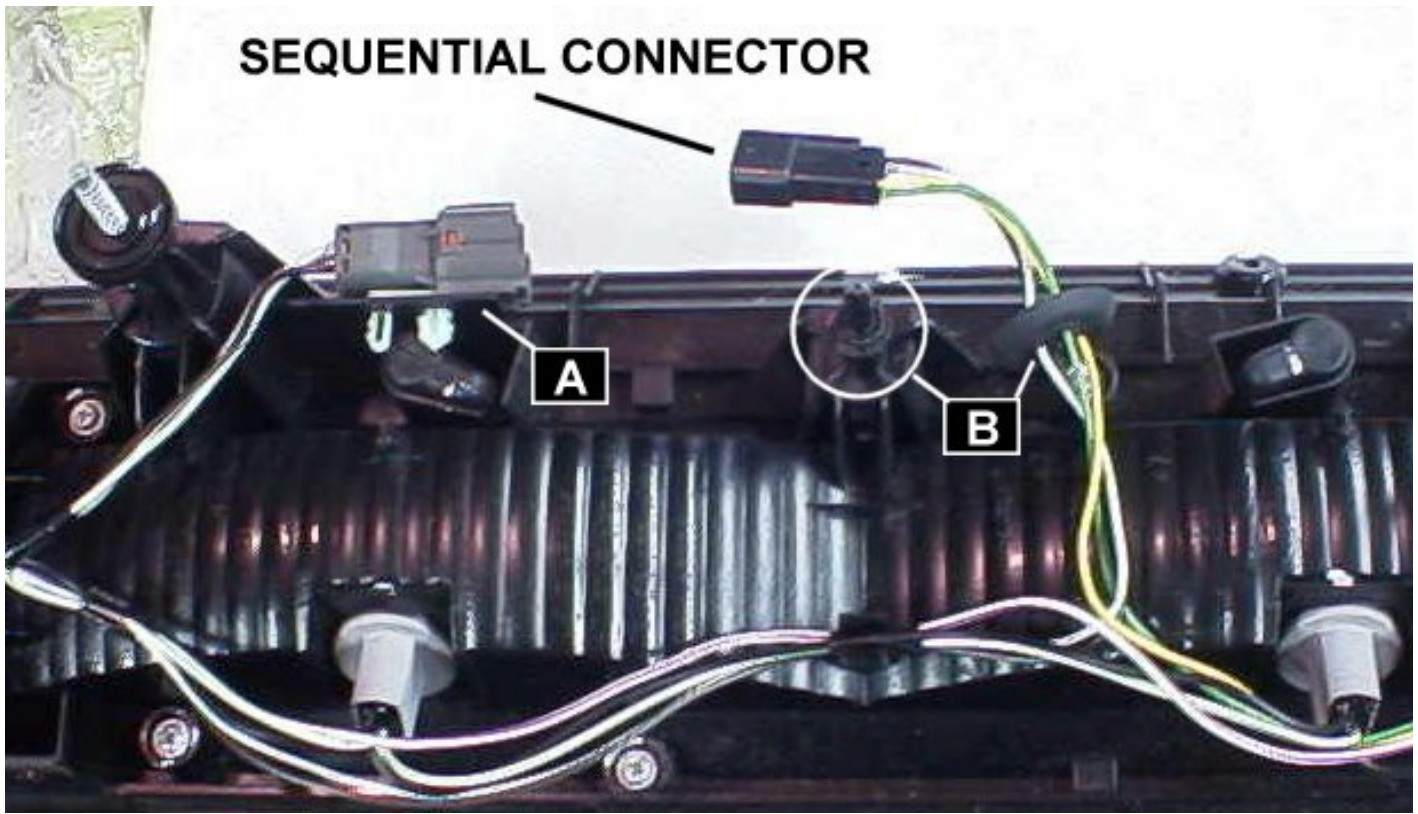


- E) Strip the ends of all 4 wires about 3/8". Using the wire nuts provided, connect the TAN/GREEN trunk release switch wire to the RED pigtail. Connect the BLACK switch wire to the BLUE pigtail.

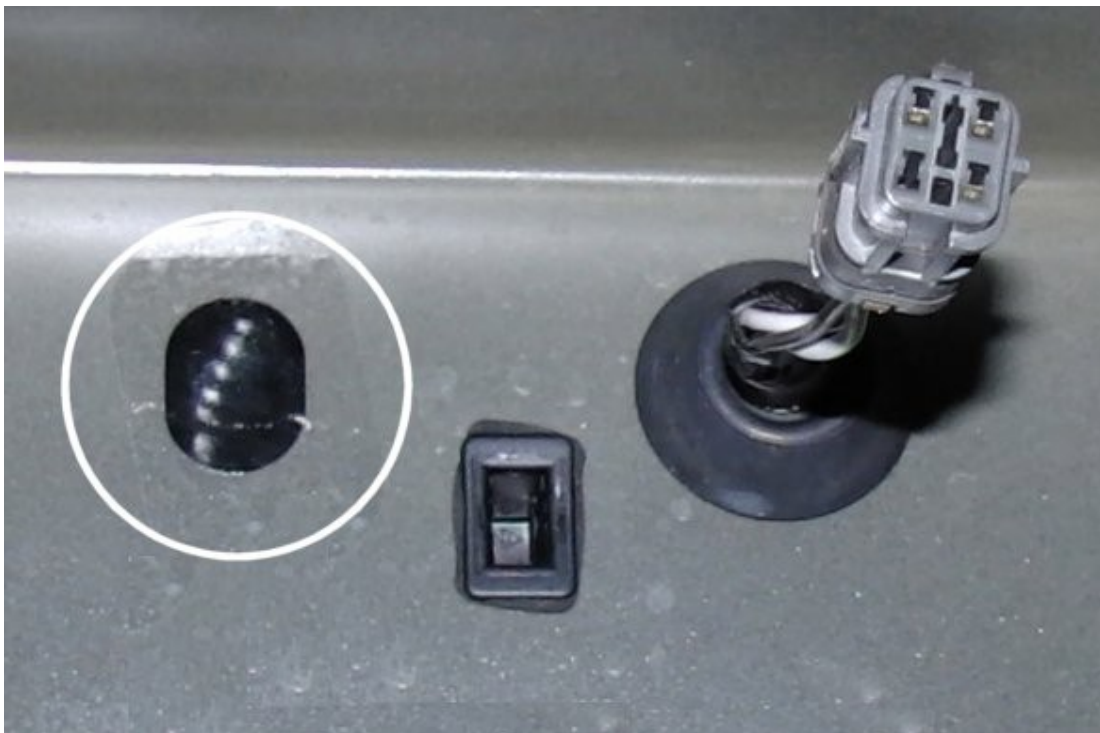
- 17) Remove the sockets from the fixture and pull the harness away. Swap the light bulbs, one for one, from the old sockets to the new sockets.
- 18) Starting from your right, insert the sockets of the new harness into the fixtures, noting that the left sockets labeled "L1" and "L2" are on your right, and the right sockets labeled "R2" and R1" are on your left. As you install the harness, insert the wires into the wire guides that are built into the fixture (see circle).



- 19) At the center of the fixture, do the following:
- A) Slide the OEM style connector onto the retaining clip until it clicks.
 - B) Route the sequential connector to the right side of the mounting pin.



- 20) If your car has a trunk lid liner, remove it. Then pull 2 push pins and remove the cover over the key lock mechanism.
- 21) On the trunk lid, there is a hole to the left of the harness connector. Remove the tape from the hole.



- 22) Carry the trunk light panel to the trunk lid. Insert the sequential connector into the hole and press the grommet into position. Make sure it is seated all the way around.



- 23) Connect the OEM harness plugs together. Orient and snap the taillight panel back into position making sure you **do not pinch any of the wires on the frame or mounting studs**. This can cause a short and **WILL VOID THE WARRANTY!**
- 24) Find the Trunk Lid Jumper (Part C). Unwrap it and connect the 4-pin connector to the new sequential connector on the inside of the trunk lid.
- 25) Route this new cable along the trunk harness to the hinge, around the hinge, along the side of the fender and make your way past the right sequencer and continue to the left sequencer.
- 26) Plug the 2-pin connector into the mating connector on the left side sequencer. Then, plug the other 2-pin connector into the right side sequencer.

TESTING

Make sure the car, turn signals and hazards have been off for at least 5 minutes. **With the car running**, turn on the left signal and let it run for 1 minute. Turn on the right signal and let it run for 1 minute. If you have problems, follow the steps below.

TROUBLESHOOTING

One or more lamps do not light, or are dimly lit	<ul style="list-style-type: none"> - Be sure you didn't pinch any of the wires on the frame or mounting studs. - Double check the connections. - Check the bulb to make sure it isn't burned out.
With hazards on, one side sequences	<ul style="list-style-type: none"> - With the car running, turn on each signal for a minute or so to allow the electronics to adjust to the speed of the flasher.
Flasher goes too fast	<ul style="list-style-type: none"> - Make sure all the bulbs are good and fully seated in the sockets. - Make sure all the connectors are completely seated.
Trunk switch does not function	<ul style="list-style-type: none"> - Make sure the quick splice is squeezed completely flat. - Be sure the wire terminal is fully seated into the 4-pin connector.

If you are having difficulties with the installation, or you can't get the harnesses to function properly, call **WebElectric Products** directly at 440-389-5647 or send an email to techsupport@webelectricproducts.com. Our highly trained staff will assist you.