



THE AUTOMOTIVE LIGHTING BENCHMARK

2014-2023 4RUNNER XB LED TAIL LIGHTS INSTALL GUIDE

WARNING: By reading this document, you agree it is only to be used as an educational guide. Morimoto Lighting nor its dealers make guarantees on any finished results, nor are they to be held responsible for any damage, misuse, or personal injuries. If you are unable to clearly understand and adapt the information below, professional installation is recommended.

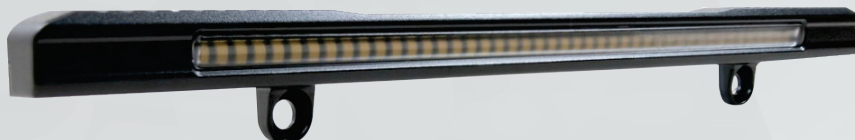
WARNING: It is the installer's responsibility to confirm compliance with state and local laws.

PACKAGE CONTENTS



2X TAIL LIGHT ASSEMBLIES

1x 5FT BOOST BAR EXTENSION



1X OPTIONAL REVERSE LIGHT BOOST BAR
FOR WIRE ROUTING DIAGRAM, SEE PAGE 15

TOOLS REQUIRED

10MM SOCKET WRENCH W/ EXTENSION
PANEL PRY TOOLS

WITH OPTIONAL REVERSE LIGHT BOOST BAR, ALSO:

CABLE TIES / SNIPS
ELECTRICAL TAPE
DRILL / DRILL BIT OR FILE (SEE PAGE 7)

INSTALLATION PROCESS

1. Ensure the hatch window is fully closed (up). Open the hatch. Inside each side, locate the slot in the locations shown in Image 1 below. Using a trim tool, unclip and remove the trim panel covering each tail light access hole.

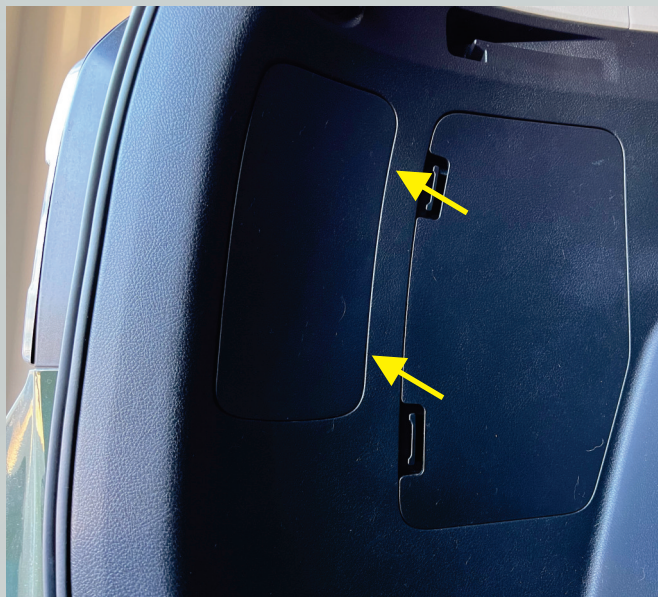


Image #1

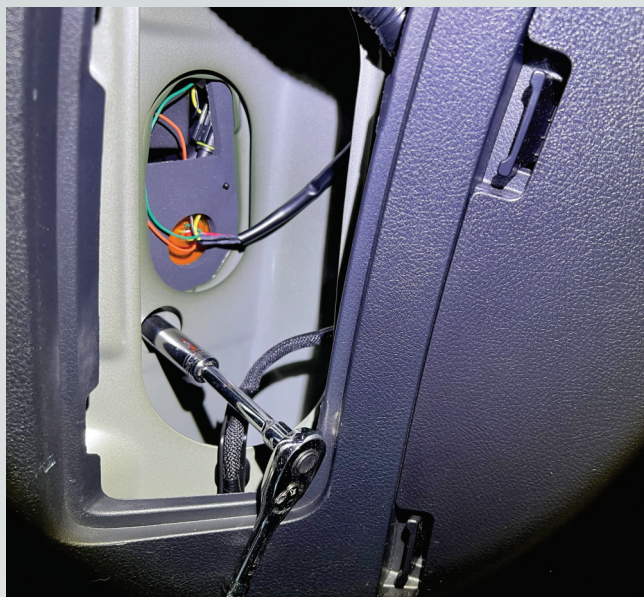


Image #2

2. Inside the access hole, locate and remove the two 10mm nuts from the locations shown below.

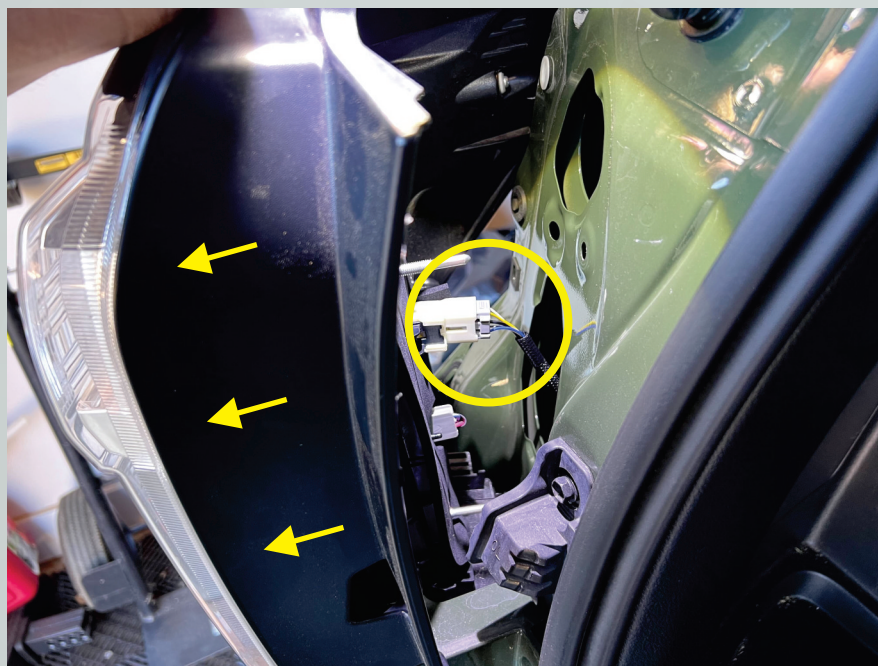


Upper



Lower

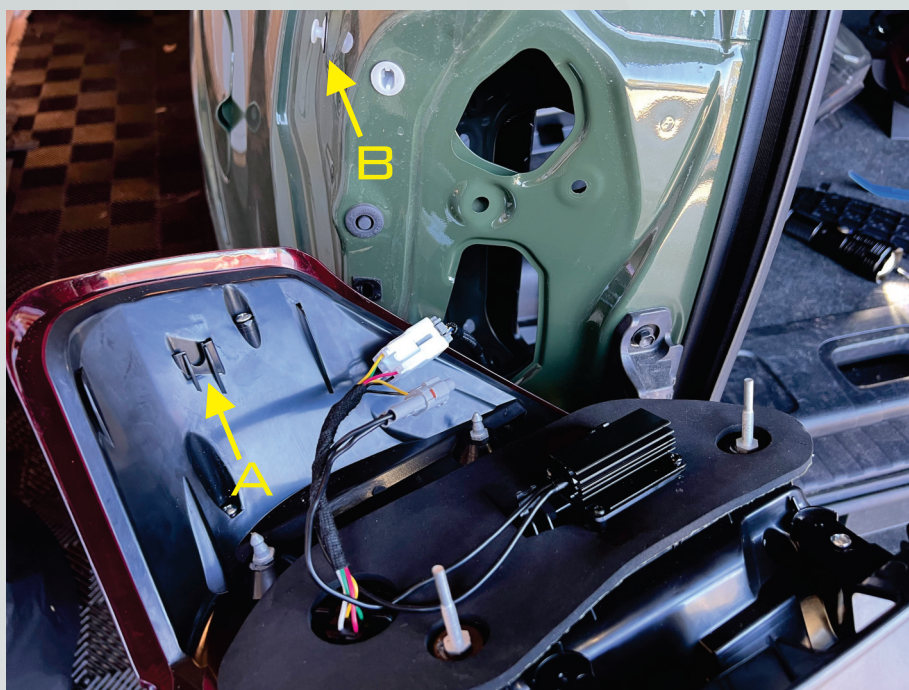
3. Pull the tail light straight back, away from the vehicle, to release it. Disconnect the circled connector. The tail light can now be removed and set aside.



4. Connect the new tail light using the same wiring connection as Step 4.

5. Adding a Reverse Light Boost Bar too? Skip to Page 4.

6. Install the tail lights on to the truck. NOTE: When reinstalling the tail lights, ensure the slot "A" fits into the plastic clip "B" as indicated in the image below.



7. Turn on the truck and go through all modes to confirm the tail lights function properly.

8. Reinstall the 10mm nuts and hand tighten.

9. Clip the trim panels back in.

10. Enjoy your new Morimoto XB LED Tail Lights!

-END-

INSTALLATION PROCESS - BOOST BAR

FOR WIRE ROUTING DIAGRAM, SEE PAGE 15

1. Open the hatch door. Locate the cover above the grab handle shown in Image 1 below. Remove the cover. Remove the 10mm bolt and the cloth handle. Set both aside.



Image #1



Image #2

2. Using a panel pry tool, pop the hatch cover off nearest the latch first, then work your way around and forward to the (closed) window (Image #1). Slide the hatch cover toward the front of the vehicle, to release it from the rear window channel (Image #2). Unclip the two cargo lights by first pressing in the clip release, then pull the connector out of the socket. (Image #3). Set the cover aside (Image #4).



Image #1



Image #2

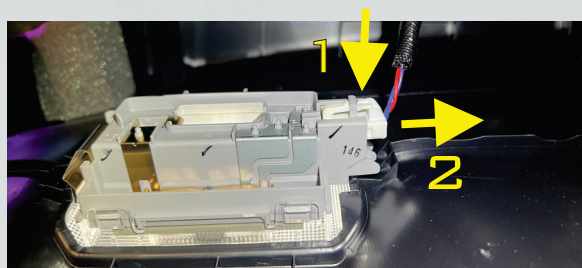
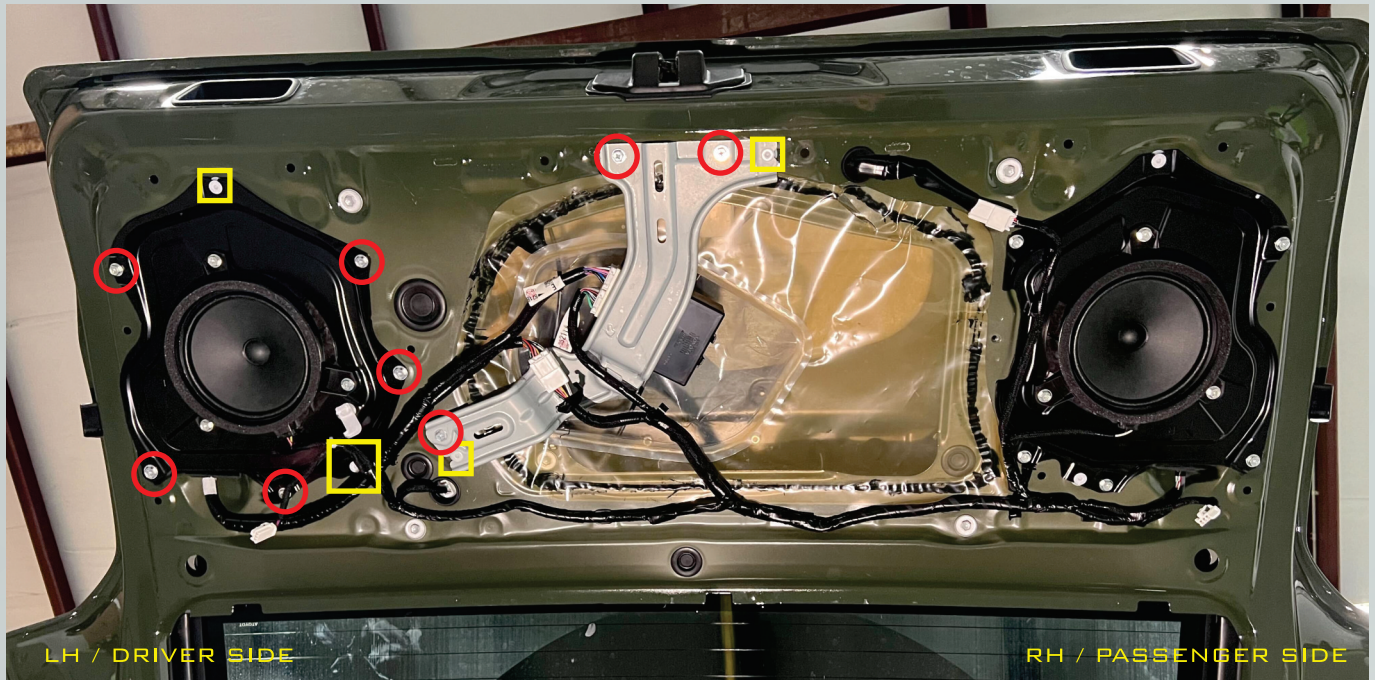


Image #3



Image #4

3. Remove these eight (8x) 10mm screws and set aside (Circled in red below). Using a trim tool, pop the four (4x) plastic push clips holding the center frame and the LH (Driver's Side) Speaker (In yellow squares below).



4. Allow these two brackets to dangle loose. If preferred, you can secure them out of the way with a bungee cord or cable tie (Image #1). Next, gently peel away the plastic vapor barrier, which uses butyl along the edge. When you reinstall this vapor barrier, the sticky butyl can be reused without issue in most cases, so take care when setting the barrier aside: sticky side up (Image #2).

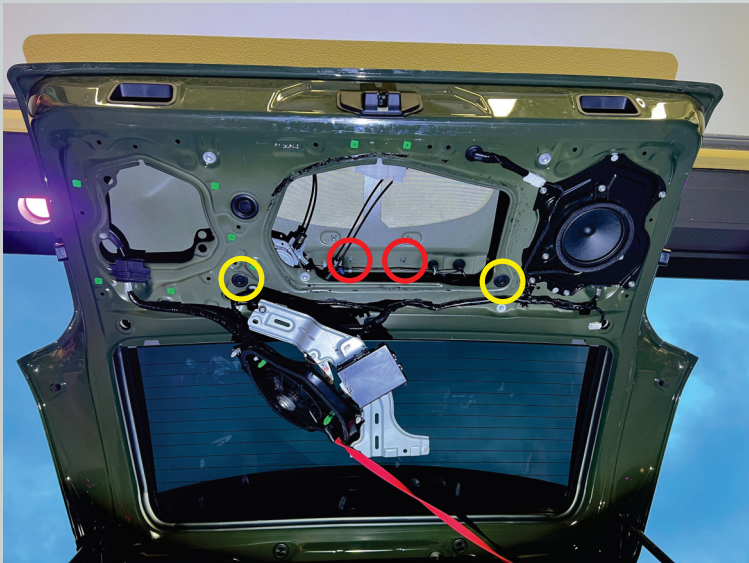


Image #1

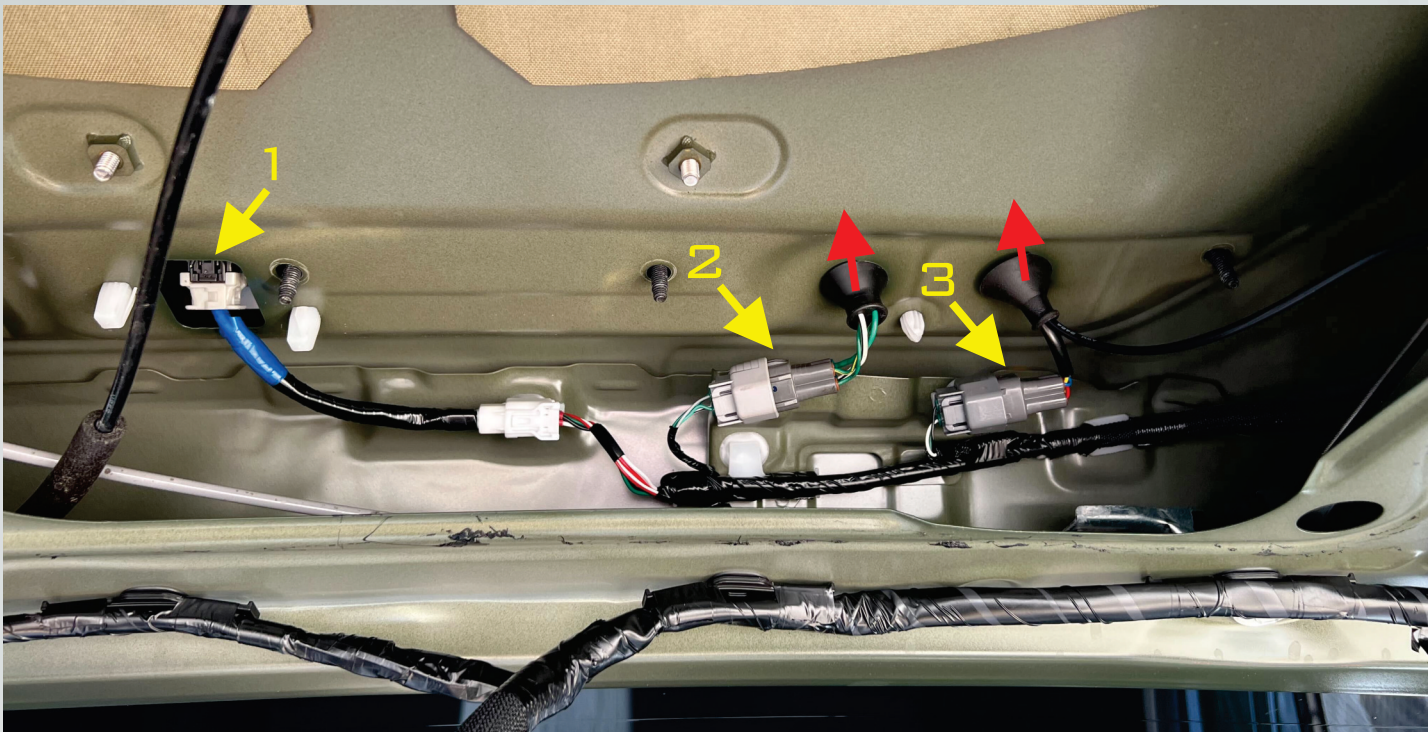


Image #2

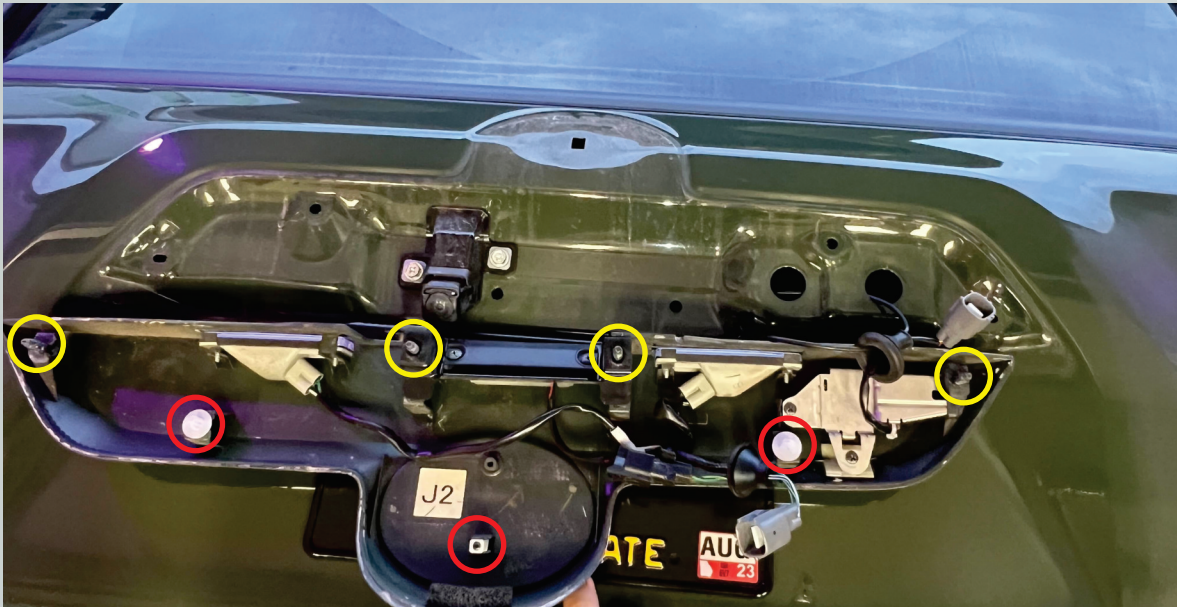
5. Next, remove the four (4x) 10mm nuts holding the hatch handle to the hatch itself. The two nuts circled in red can be accessed directly. The two nuts circled in yellow require removing the indicated rubber grommets, and with an extension to reach the nut through the holes in the hatch.



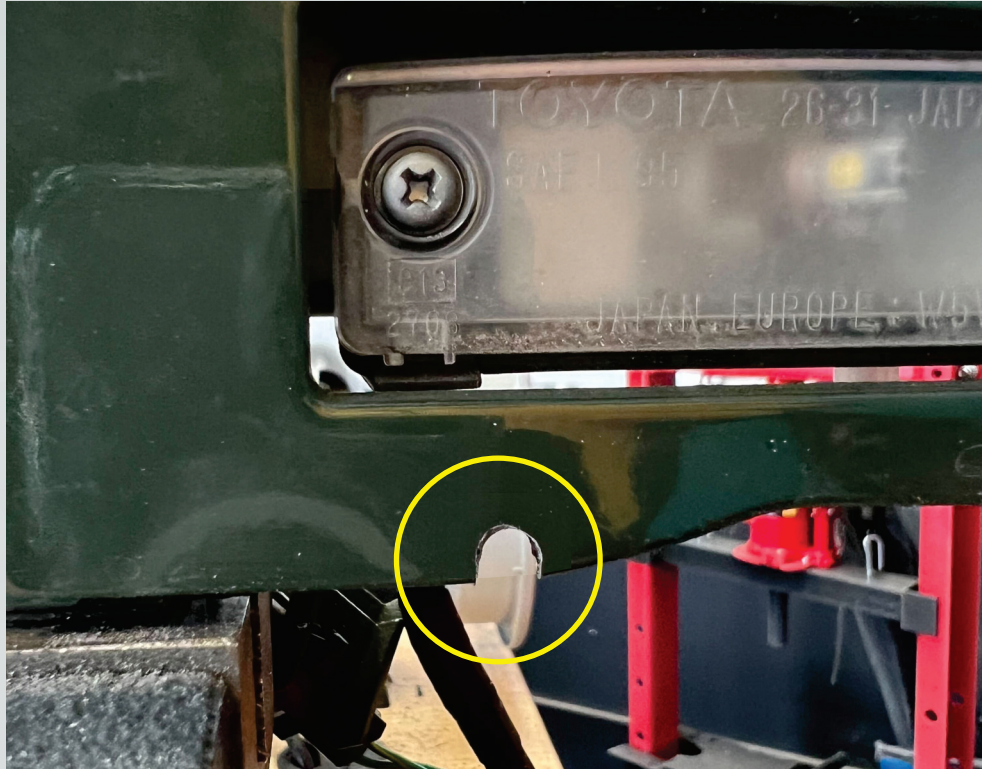
6. Unplug these three connections. With connections #2 and #3, next press the rubber grommet out from inside the hatch cavity (shown in red).



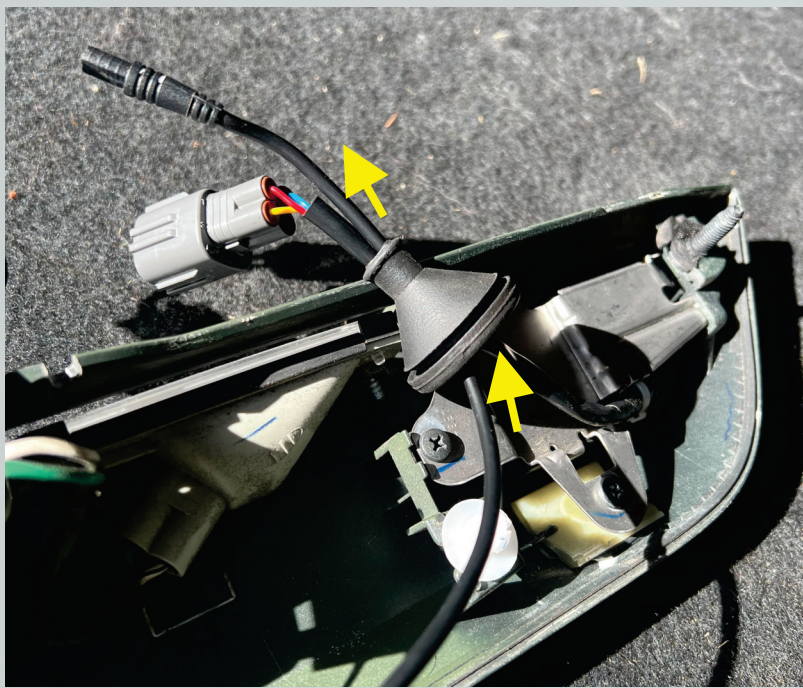
7. Being mindful of the loose brackets inside the hatch can move around, lower the hatch slightly so you can access the hatch handle, but DO NOT close the hatch. Using the center handle for the hatch, quickly pull the handle away from the hatch to release the plastic press clips. The metal bolts that had nuts inside the hatch are circled in yellow. The plastic press clips are circled in red.



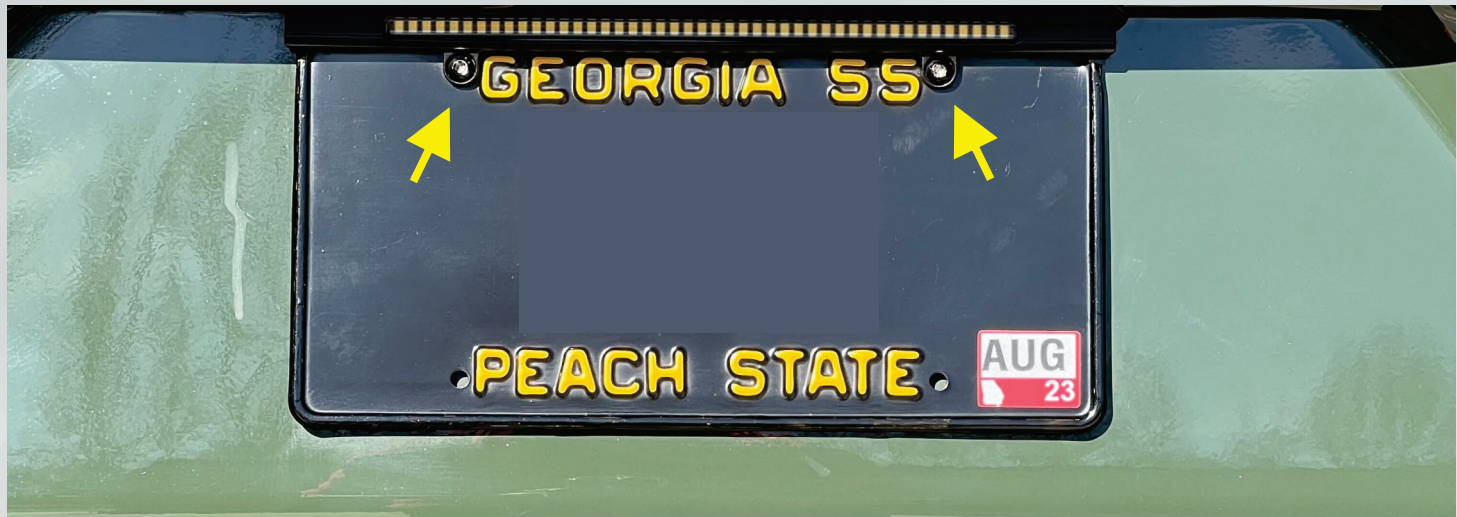
8. Using an appropriate drill bit or file, make a small notch for the Boost Bar wiring to pass through.



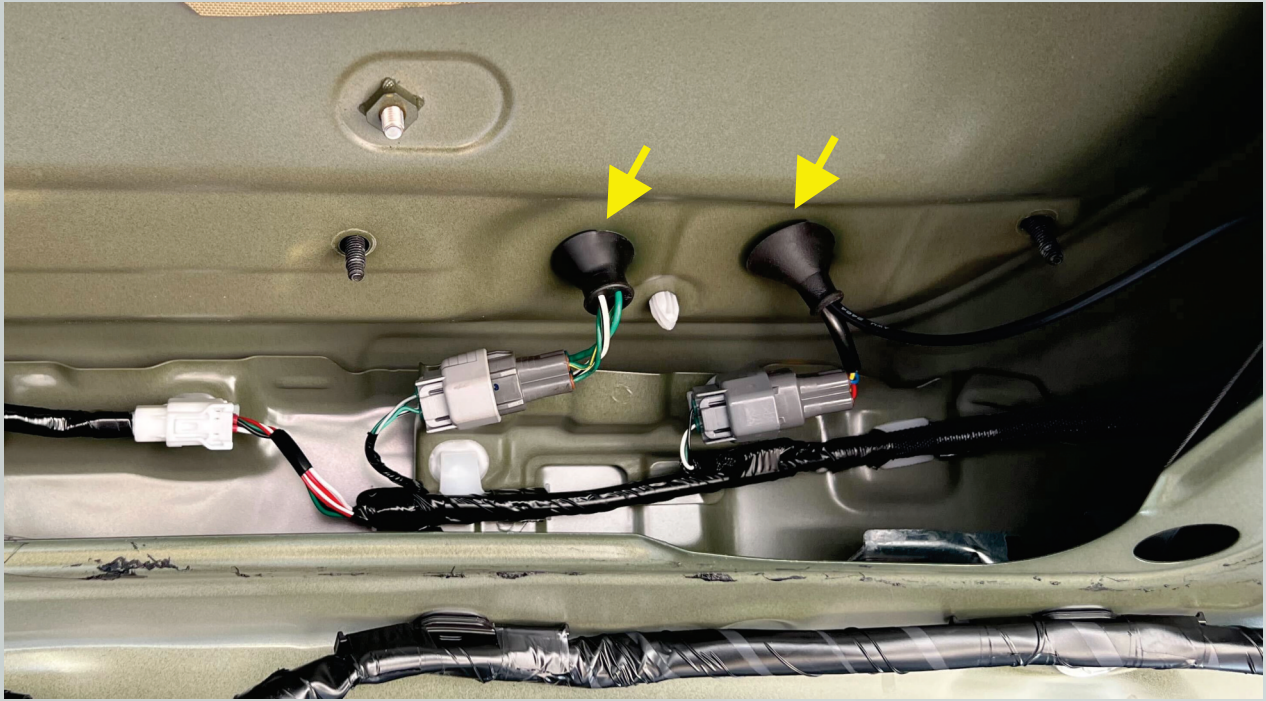
9. On the far right rubber grommet (for the hatch window switch), remove the stock electrical tape and route the Boost Bar wiring through the rubber grommet as shown.



10. Mount the Boost Bar to the top of the license plate using the existing screws.



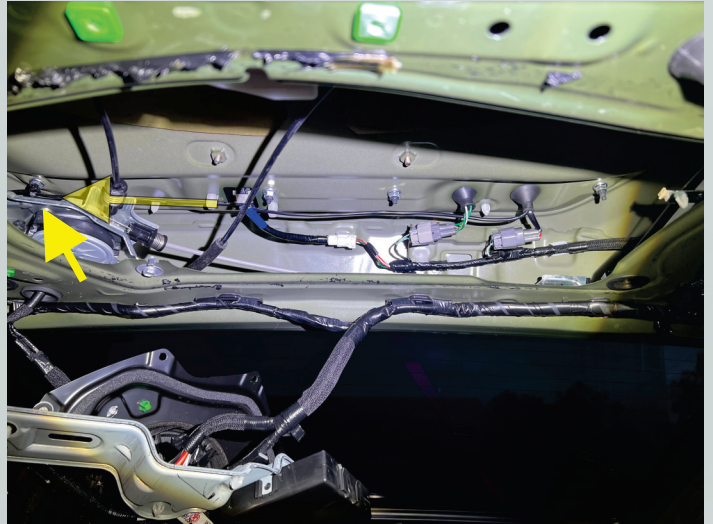
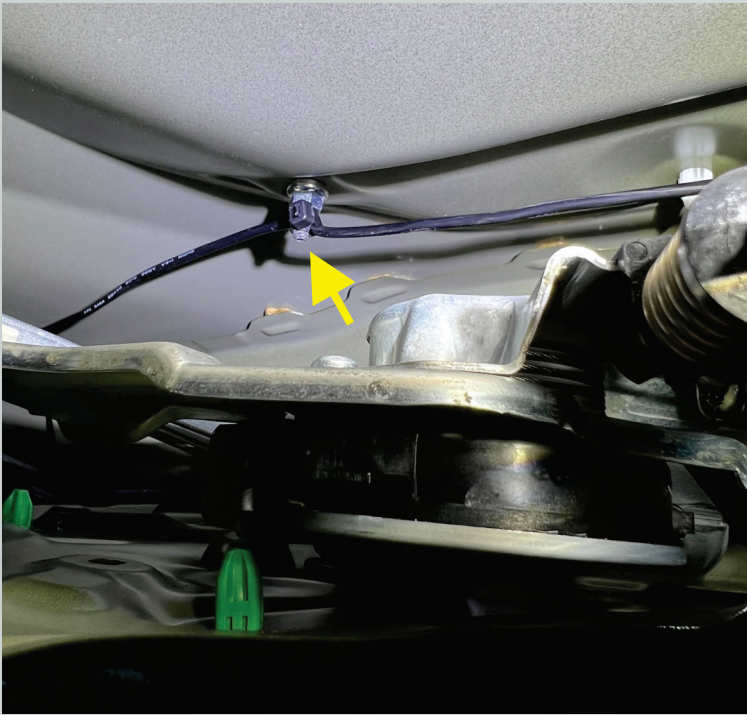
11. Press the rubber grommets back into the hatch sheet metal. Reinstall the hatch handle by pressing it back into place, then reinstall the four (4x) 10mm nuts and hand tighten.



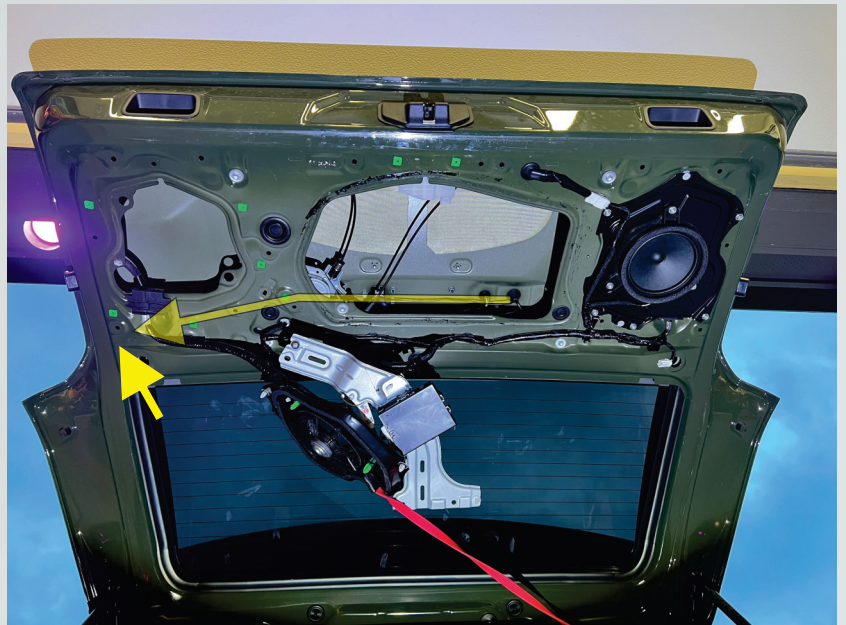
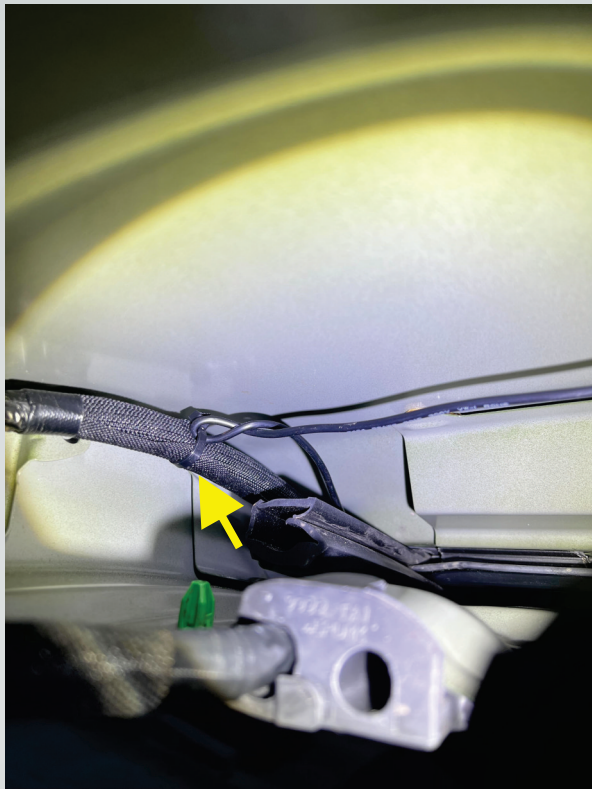
12. Start routing the Boost Bar wiring towards the LH / Driver's Side. Use a cable tie to secure the wire to the indicated connector below. Ensure the wiring is fully pulled through the grommet and taugth. With loose wiring, it could catch on the rear window opening/closing.



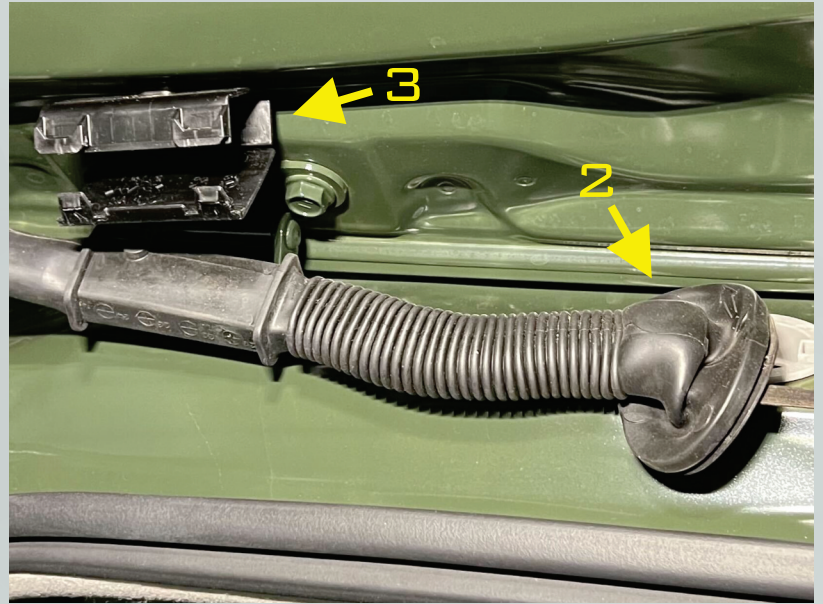
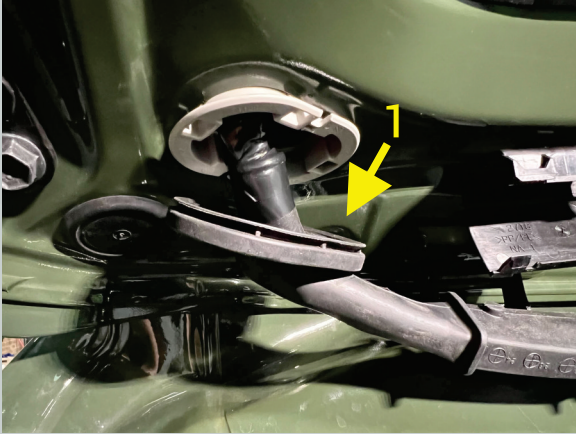
13. Secure the wiring again with a cable tie on the next available stud. Again, ensure the wiring is taught.



14. Secure the wiring on the wire loom at the far left-hand side of the hatch cavity. Ensure the wiring across the hatch is taught. This wire loom is what the Boost Bar wiring will chase up to the top of the hatch and through the factory pass-through boot.

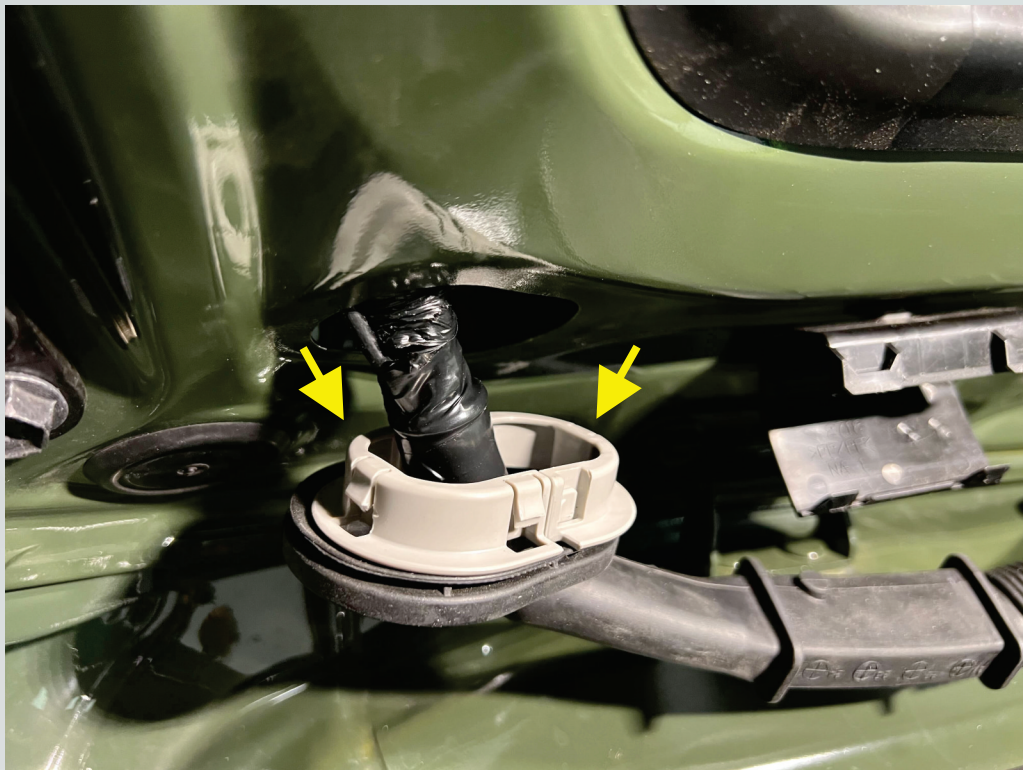


15. Between the hatch and roof, pull the rubber boots off (#1 and #2 below), and open the support bracket to release the boot (#3 below).



16. Remove the beige plastic pieces from the hatch and roof using a small trim tool or flathead screwdriver. Remove the factory electrical tape and discard.

NOTE: When re-installing this 2-Piece Boot, fit the plastic inside the rubber boot and press back in to the sheet metal as a single piece.



17. Snake the Boost Bar wiring along the LH side of the rear window up to the roof area.



18. Snake the wiring through the rubber boot then down through the roof sheet metal (#1). Guide the Boost Bar wiring out of the edge of the headliner. You may need to remove 1-2 of the plastic press clips to lower the headliner slightly (#2).



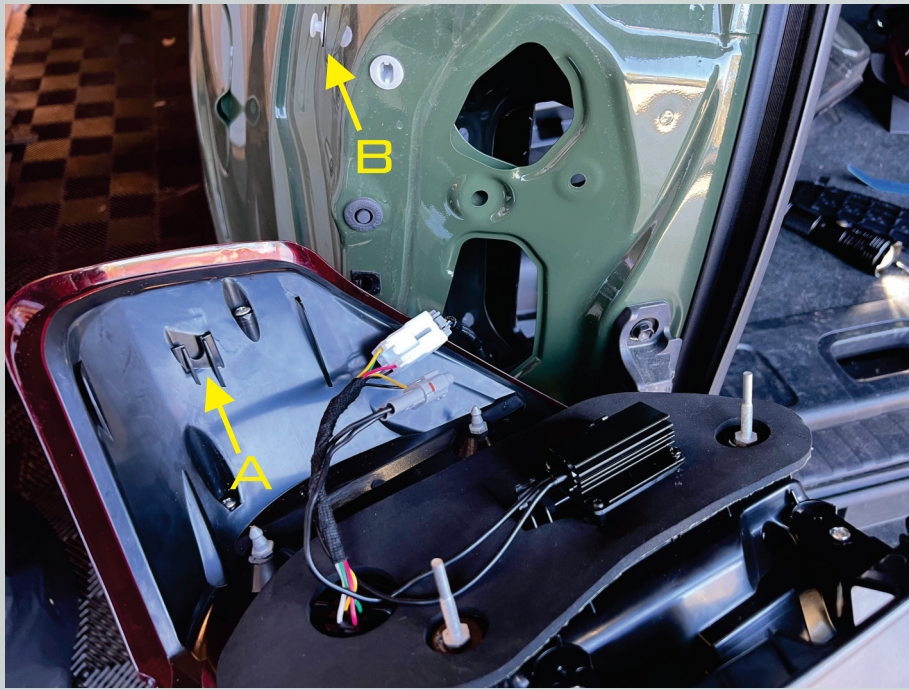
19. Add the extension to the end of the Boost Bar wiring. Next, route the wiring inside the edge of the headliner across to the right / Passenger Side and down to the tail light area.



20. Route the wiring to the Right / Passenger Side Tail Light and connect to the tail light.



21. Install the tail lights on to the truck. NOTE: When reinstalling the tail lights, ensure the slot “A” fits into the plastic clip “B” as indicated in the image below.



- 22. Turn on the truck and go through all modes to confirm the tail lights and Boost Bar function properly.
- 23. Reinstallation of components is the reverse of removal.
- 24. Enjoy your new Morimoto XB LED Tail Lights and Boost Bar!

-END-

BOOST BAR WIRE ROUTING DIAGRAMS (10-23 4RUNNER)

