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Baja Designs 448078 Installation Instructions

S8 20 Inch Grille Light Kit for Tundra & Sequoia

Part number: 448078

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Scan for fitment, price and install help

Toyota Tundra (22-on), Sequoia (23-on)
TRD Pro Grille Conversion Kit
(44-8078, 44-8079)

OEM TRD Pro grill not included



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These are comprehensive warranties; other than the exclusions below – you're covered. If your LED or HID bulb burns out, you're covered. Additionally, cutting off our connector or changing your lenses does not automatically void your warranty.

Exclusions:
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***For a color copy of instructions, visit your vehicle specific application on BajaDesigns.com ***

Tools Required

* 12mm, 10mm, 8mm, 7/16” socket	*3/4” drill bit	*T25 Torx
* Trim removal tool	*Phillips head screwdriver	*7/16” wrench

To begin, make sure the vehicle is in park, on level ground and the parking brake is engaged.

*Tundra Fender Flare Removal Only

1. Using a 10mm socket, remove the 5 frontmost screws from the driver side inner wheel well to release the front edge of the fender flare. Carefully pull the front of the fender flare away from the fender until the clips release up to near the back of the headlight.

2. Repeat step 1 for the passenger side of the vehicle.

1a.



1b.



*Sequoia Fender Flare Removal Only

3. Using a 10mm socket, remove the 10 black screws from the driver side inner wheel well. Starting at the front of the fender flare, carefully pull it away from the fender until the clips release and remove the fender flare.

4. With a Phillips head screwdriver, remove the 2 silver screws (circled) attaching the front clip to the fender. Repeat step 3 and 4 for the passenger side of the vehicle.

3.



4.



5. Using a 10mm socket, remove the 4 Phillips hex head screws (arrowed) that secure the driver side felt fender liner to the front clip. Repeat for the passenger side.

5.



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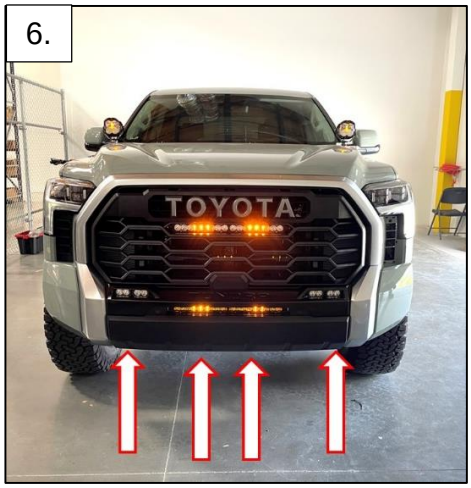
*Tundra and Sequoia Front Clip Removal

6. Using a 10mm socket, remove the 4 bolts securing the lower bumper assembly.

7. Using a 10mm socket, remove the 4 bolts securing the upper grill.

6.



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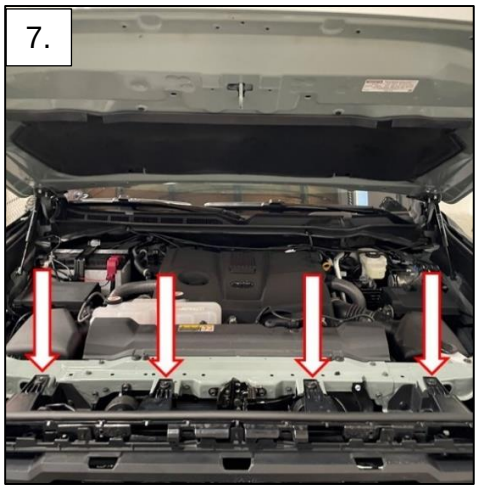
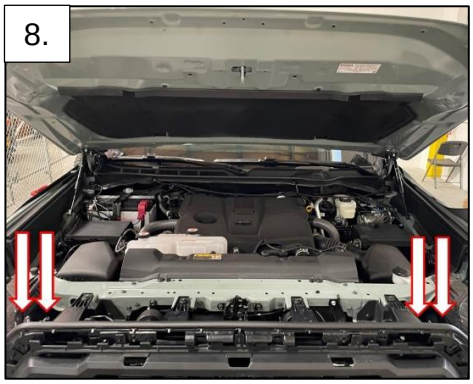


8. Remove the electrical connectors from the top of the grill near the top of the radiator. This can vary from 2 to 4 connectors based on the vehicle trim level.

9. Using a trim tool or flathead screwdriver, remove the 2 plastic push rivets from either side of the grill near the previously disconnected electrical connectors.

8.



9.



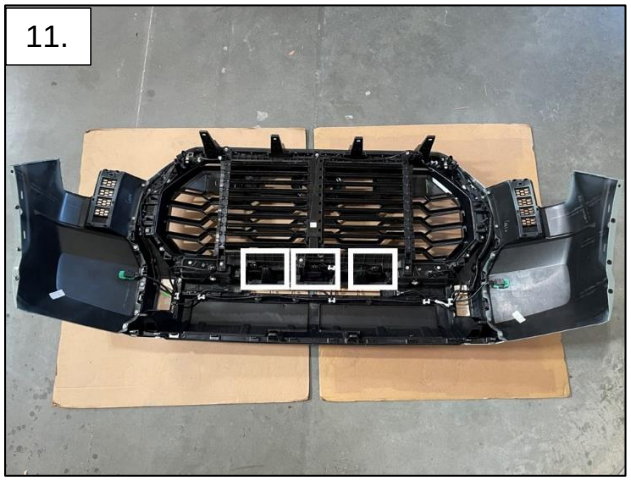
10. Starting from inside the driver side fender well, carefully pull the front clip sideways and forward to release all the clips under the headlight and grill vent. Repeat for the passenger side.

11. With the help of an assistant, carefully remove the front clip of the vehicle by pulling forward and set it on a soft work surface. There are three clasping features (boxed) that will release with a light forward tug and an audible click.

10.



11.



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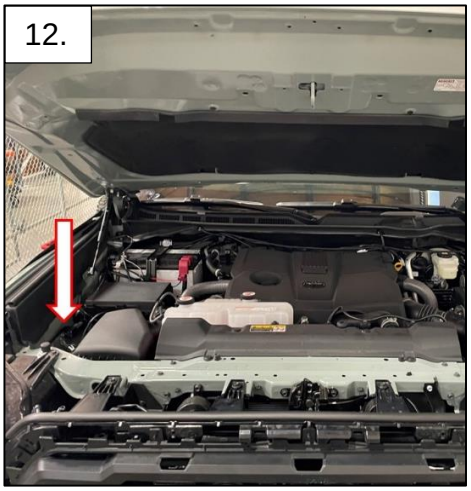
12. Locate the included wiring harness and mount the relay using the tab on the relay to the common ground located next to the passenger side air box.

13. Locate the light connector lead of the wiring harness and starting at the battery, route it towards the radiator.

12.



13.



14. Run the switch lead along the firewall and to the wiring passthrough located to the right of the brake master cylinder.

15. Select a location on the dash for the switch. A suggested location is outlined in photo 15a. Check for clearance behind the panel and drill a ¾" hole for the switch. To access behind this panel, remove the dash endcap by carefully prying from the bottom of the panel as illustrated in photo 15b.

14.



15a.



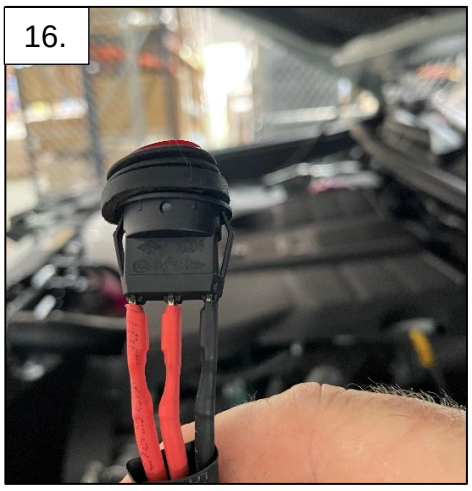
15b.



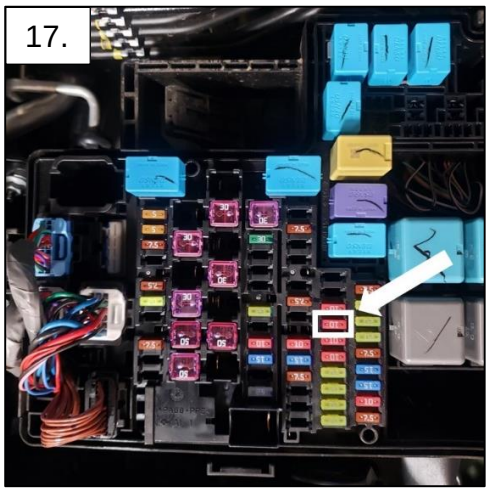
16. Take a reference photo of the switch wiring. Disconnect the spade connectors and run the wires through the firewall and switch hole. Plug the switch back in and install it into the hole.

17. Open the passenger side fuse box located near the air cleaner. Find the ignition pin shown in photo 14.

16.



17.



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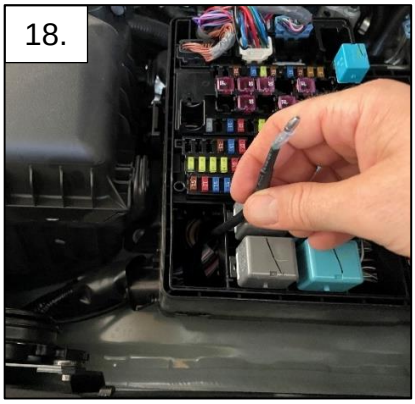
18. Remove the 10-amp fuse and insert the low-profile mini fuse tap from the backlit add-on kit into the fuse slot. Insert the 10-amp fuse in the open slot in the fuse tap. Run the fuse tap wire out of the bottom of the fuse box and replace the cover.

19. Plug the backlit wire into the fuse tap and run the wire along the firewall, around the passenger side air box and to the light connector of the main harness. Open the main harness connector lock and insert the wire into slot C (shown in 19b). Make sure the wire terminal clicks into place and close the connector lock.

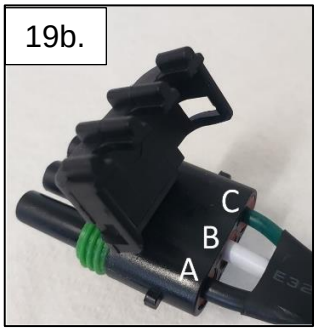
18.



19a.



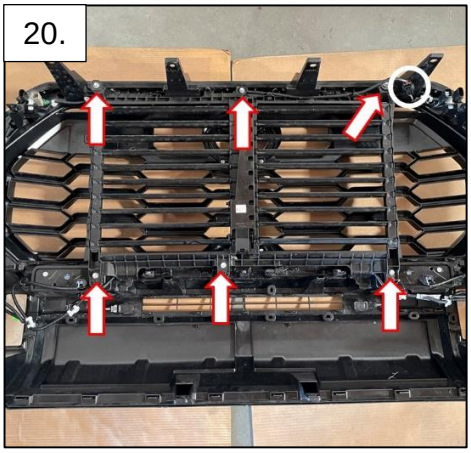
19b.



20. Using a 10mm socket, remove the 6 bolts (arrowed) holding in the shutter assembly and disconnect the shutter assembly connector (circled) at the top of the grill.

21. Unplug (boxed) the TSS module located at the bottom of the grill. Remove the three screws (arrowed) holding it in using a Phillips head screwdriver. Remove the module and the TSS cover from the grill.

20.



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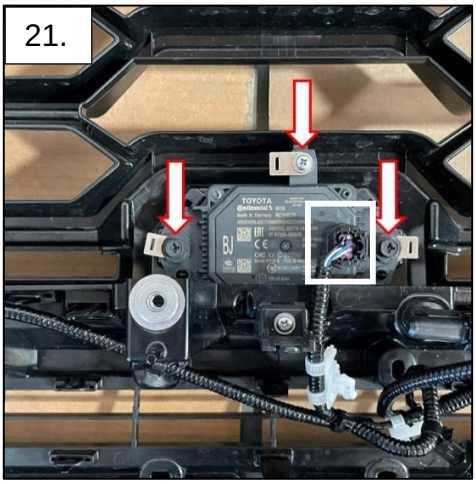
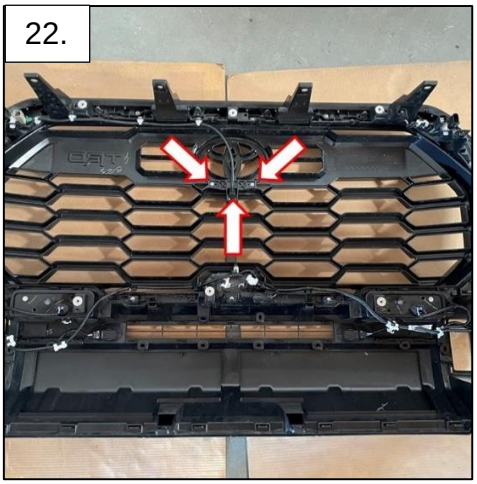


22. Unplug the front facing camera and with a Phillips head screwdriver, remove the screws (arrowed) holding it in. Remove the camera.

22.



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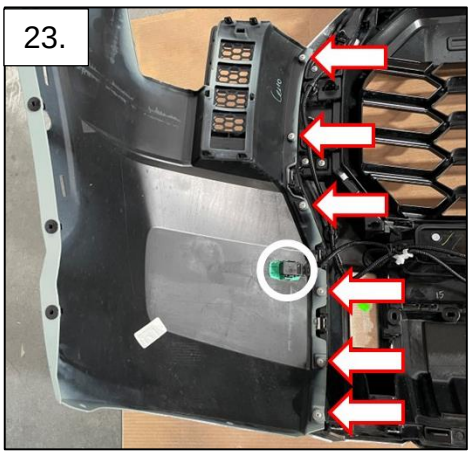
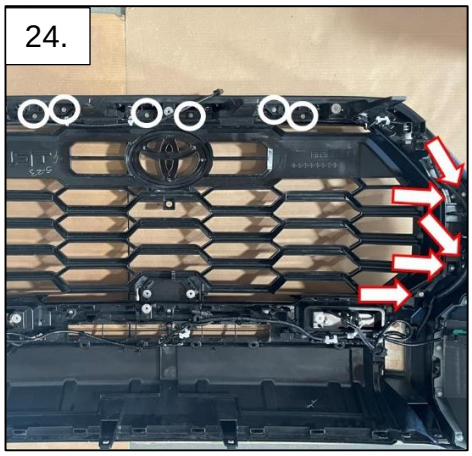
*Tundra Grill Swap Only

23. Disconnect the driver side parking sensor (circled) and remove the 6 Phillip head screws (arrowed) holding on the bumper cap and remove the cap. Repeat for the passenger side.

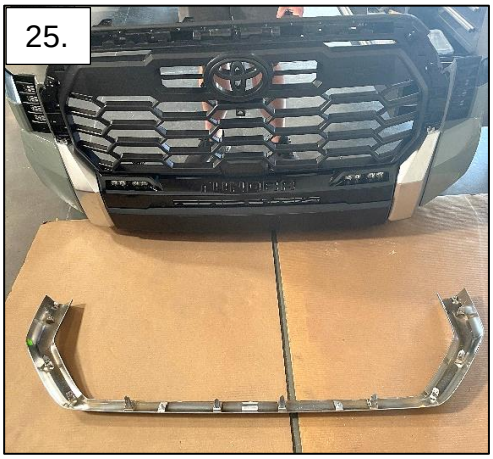
24. Remove the 6 Phillips head bolts along the top edge of the grill (circled). Remove the 5 Phillips head bolts (arrowed) on the driver side of the grill and repeat for the passenger side.

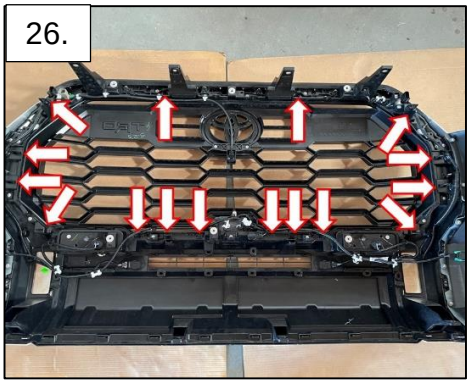




25. Using a trim removal tool, unclip the upper grill bezel from the grill and remove the bezel.

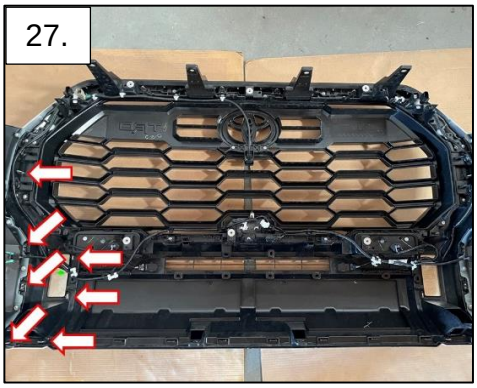
26. Locate and, using a trim tool, unclip the tabs securing the grill to the front clip.

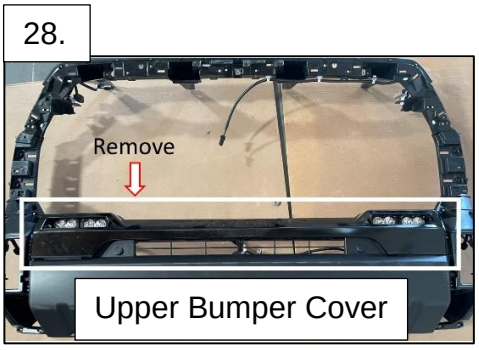




27. Remove the driver side lower grill bezel by releasing the 7 tabs. Repeat on the passenger side.

28.With the help of an assistant, flip the grill over and remove the upper bumper cover and the stock grill.





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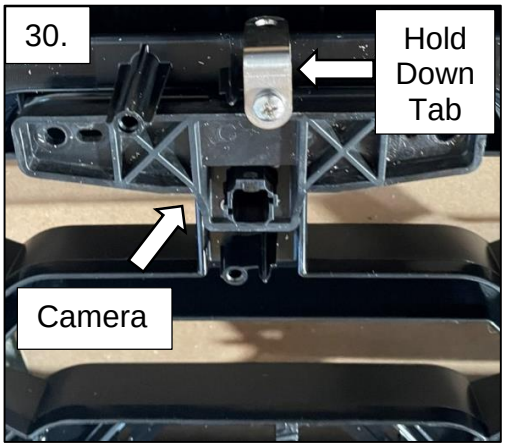
29. Insert the TSS cover into the TRD Pro grill and place the grill into the grill structure. Make sure all the tabs snap into place. Reinstall the upper bumper cover and flip over the front clip. Set the TSS module into place and secure using a Phillips head screwdriver and hardware removed in step 21.

30. Flip the grill to be face down and install the front facing camera into the grill using the included Phillips head screw and hold down tab.

29.



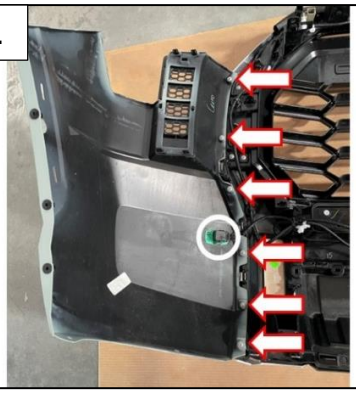
30.



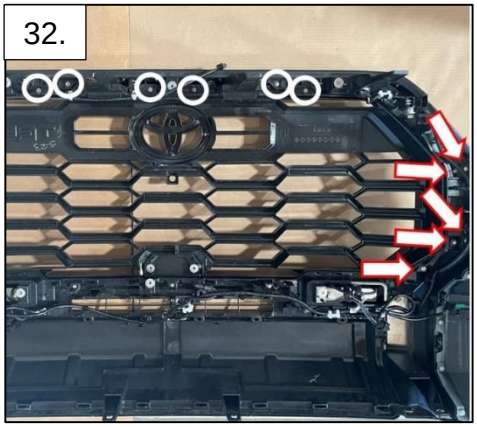
31. With a Phillips head screwdriver, reinstall the driver and passenger side bumper caps and secure using the 6 removed silver screws per side. Reconnect the parking sensor connector.

32. Reinstall the lower grill bezels and secure with the 5 removed Phillips head bolts on either side (arrowed). Reinstall the upper grill bezel and secure with the 6 removed Phillips head bolts (circled).

31.



32.

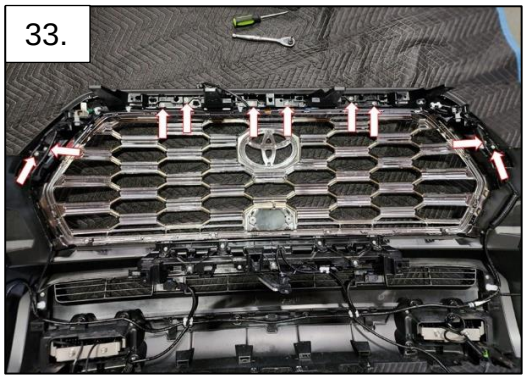


*Sequoia Grill Swap Only

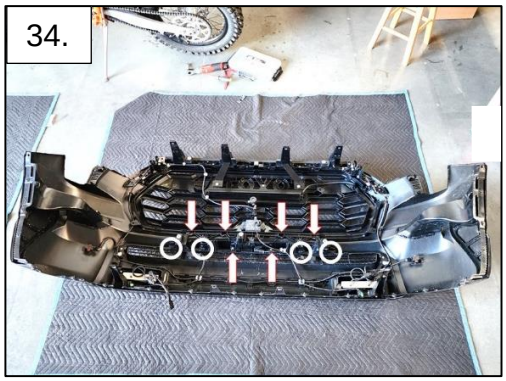
33. With a Phillips head screwdriver, remove the 10 screws (arrowed) holding in the upper grill and trim.

34. With a Phillips head screwdriver and trim tool, remove the 6 screws and disengage the 4 locking tabs that secure the front clip support mounting points to the front clip.

33.



34.



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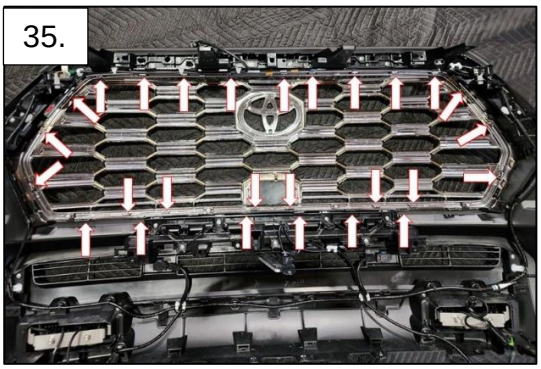
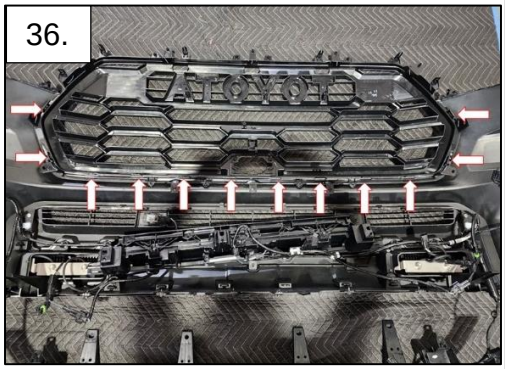
35. With a trim removal tool, carefully disengage the 27 tabs that hold the grill to the front clip. Remove the two reusable zip tie fasteners and TSS cover to use on the new grill.

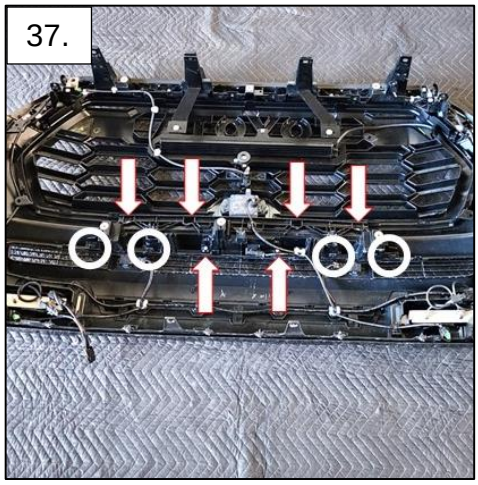
36.Remove the stock grill and set the TRD Pro grill into place. Press the grill into place and ensure the 12 lower tabs lock into place.

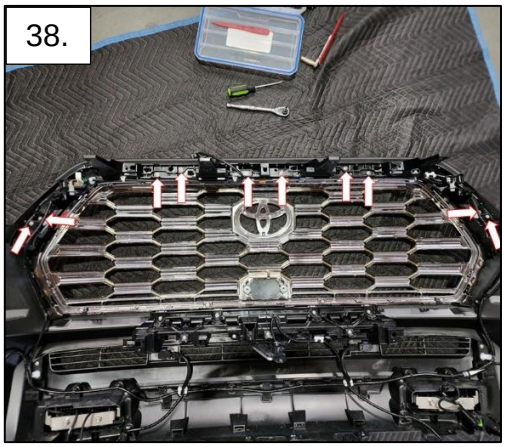




37. Reinstall the front clip support mounting points and secure using the 4 locking tabs and 6 Phillips head screws and screwdriver.

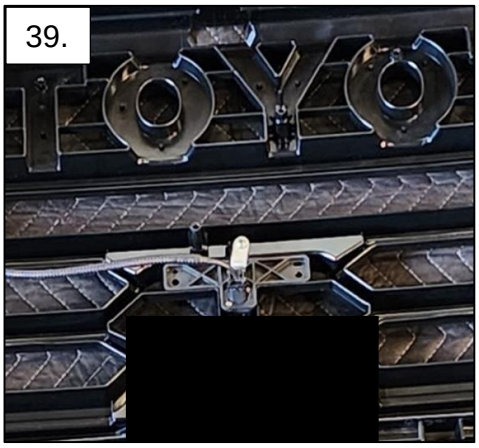
38. Reinstall the upper grill supports to the grill with the 6 locking tabs. Snap the front grill bezel with the 6 locking tabs. With a Phillips head screwdriver, replace the 10 screws securing the upper grill components.

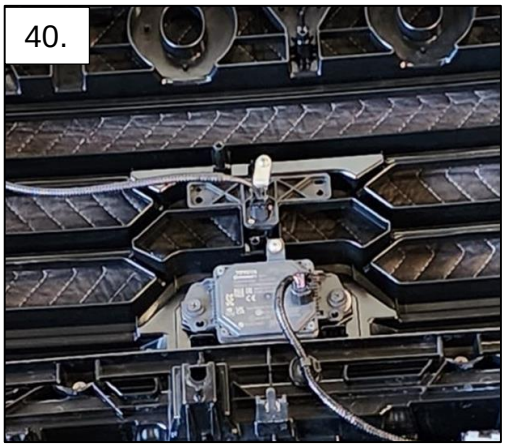




39. If equipped with a front facing camera, place the camera in the grill location and secure using the supplied bracket and one of the original camera mounting screws. It may be necessary to remove the two plastic hold downs closest to the camera.

40. Install the TSS cover into the new grill and ensure the four locking tabs are secure. Replace the two removed square nuts and install the TSS module. Secure it using a Phillips head screwdriver the removed hardware.





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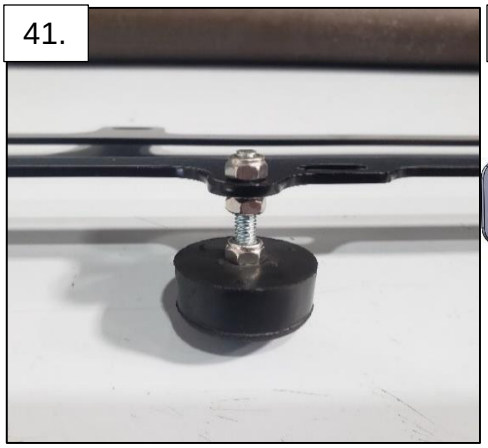
*Tundra and Sequoia S8 Install and Reassembly

41. Place the 8mm hex head bolt through the rubber base with the head of the bolt recessed into the base and secure it with a nut. Add the second nut and place the assembly onto the vehicle specific bracket. Add the last nut to sandwich the bracket between the two nuts. The rubber base should face away from the light mounting tabs.

42. Using a 7/16” wrench and the included parts bag, install the S8 into the vehicle specific light bracket. The light should face away from the rubber base.

41.

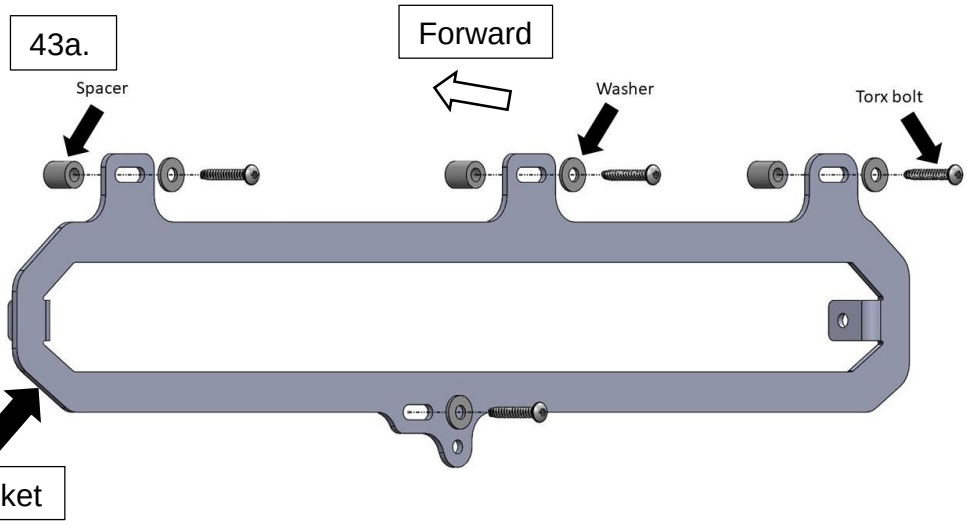


42.



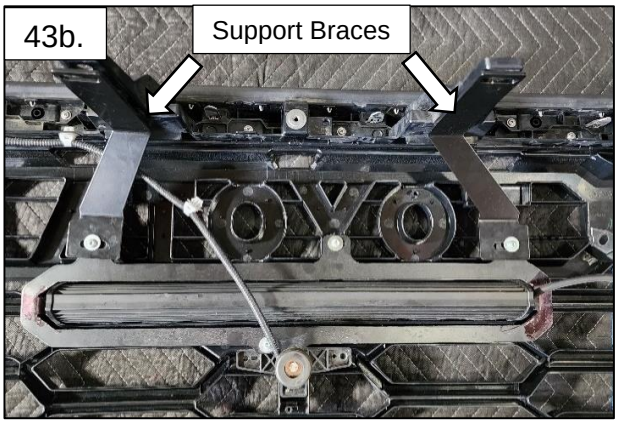
43. Using a T25 Torx, Phillips head screwdriver and the included hardware, install the light, bracket and support braces following photos 30a & b. For best performance, the light should be centered and level or angled 1° down.

43a.

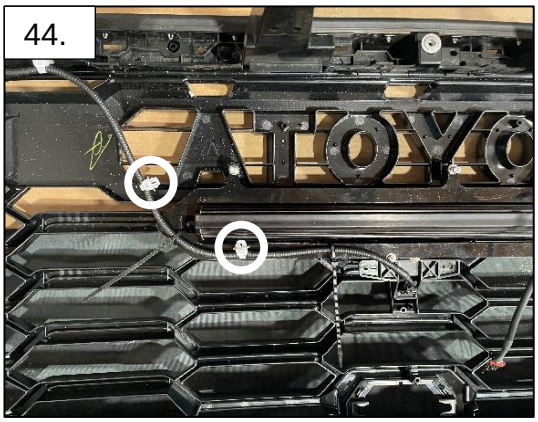


44. Remove the 2 white clips closest to the forward-facing camera (circled) holding the camera wire in place and plug in the camera. Zip-tie the camera wire to the light bracket to secure it.

43b.



44.



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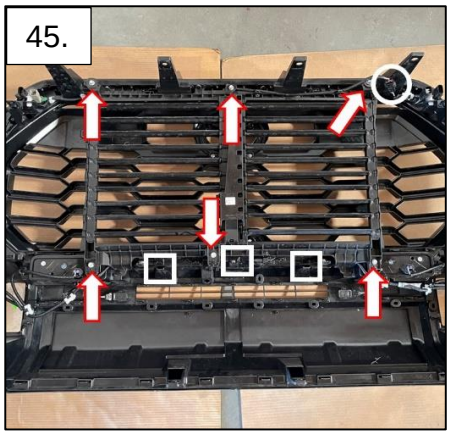
45. Using a 10mm socket, reinstall the shutter assembly using the 6 removed bolts (arrowed) and connect the shutter assembly harness (circled). Route the S8 power cord up to the upper passenger side of the grill towards the other wire connectors.

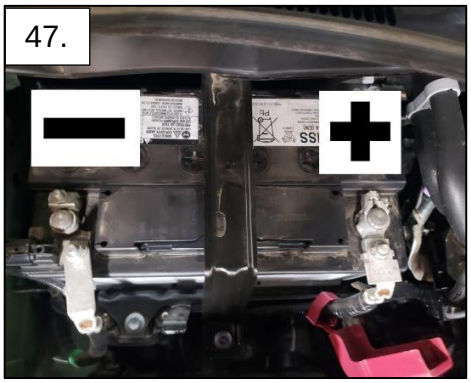
46. With an assistant place the front grill assembly onto the vehicle ensuring the 3 tabs (boxed in photo 35) clip into place and secure using the two plastic push rivets. Ensure the support brackets are sandwiched between the front clip and the core support.





47. Using a 12mm wrench, remove the negative battery cable. Install the positive (red) ring terminal of the wiring harness to the positive wire of the battery. Install the negative (black) ring terminal of the harness to the negative battery cable and reattach the negative cable to the battery. Plug the S8 into the wiring harness and test the light. **For hybrid vehicles, follow steps H1-H5 for power source wiring steps (Pg. 13).**

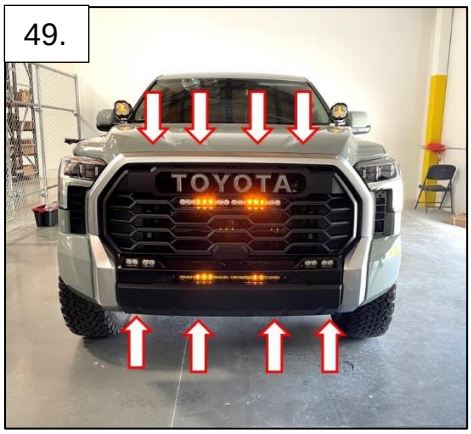
48. Snap in the driver side outer fenders starting under the headlight and moving outwards. Repeat on the passenger side of the vehicle.

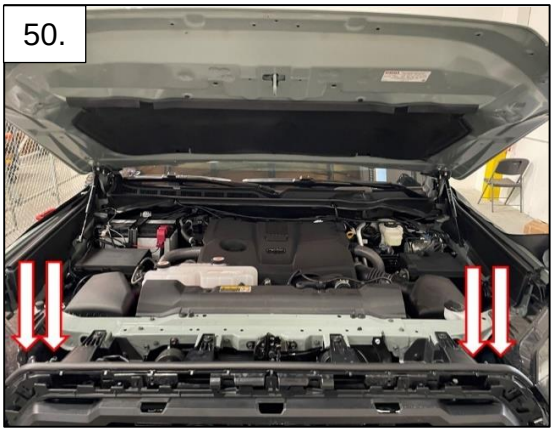




49. Reinstall the 4 bolts securing the top of the grill to the core support ensuring to sandwich the support braces between the grill and core support. Reinstall the 4x 10mm bolts securing the bottom of the bumper to the core support.

50. Reconnect the OEM plugs on the driver and passenger side of the grill.





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*Tundra Fender Flare Reinstallation Only

51. Reinstall the driver side fender flare and secure using the 5 removed 10mm bolts. Repeat on the passenger side of the vehicle.

51.



*Tie all wires away from sharp, hot, and/or rotating components.

* Re-torque all the fasteners after 100 miles.

*Your install is now complete! Thank you for choosing Baja Designs.

*Sequoia Fender Flare Removal Only

52. Using a 10mm socket, reinstall the 4 Phillips hex head screws that secure the driver side felt fender liner to the front clip. Repeat for the passenger side.

53. With a Phillips head screwdriver, reinstall the 2 silver screws attaching the front clip to the fender. Repeat for the passenger side of the vehicle.

52.

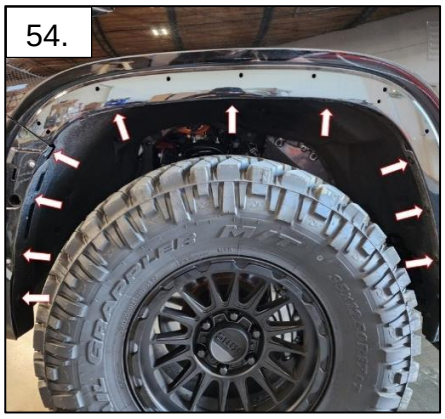


53.



54. Reattach the fender flare by aligning the retention tabs and carefully press them into place. Using a 10mm socket, reattach the 10 black screws inside the driver side fender well. Repeat for the passenger side.

54.



*Tie all wires away from sharp, hot, and/or rotating components.

* Re-torque all the fasteners after 100 miles.

*Your install is now complete! Thank you for choosing Baja Designs.

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Hybrid vehicle instructions

Remove the 12V negative battery cable. For Tundras, it is located on the driver side under the rear seat. For Sequoias, it is in the driver side trunk wall panel. Consult your owner's manual for specific access instructions.

H1. Remove the passenger side fuse panel cover and locate the positive battery wire and post (boxed).

H1.



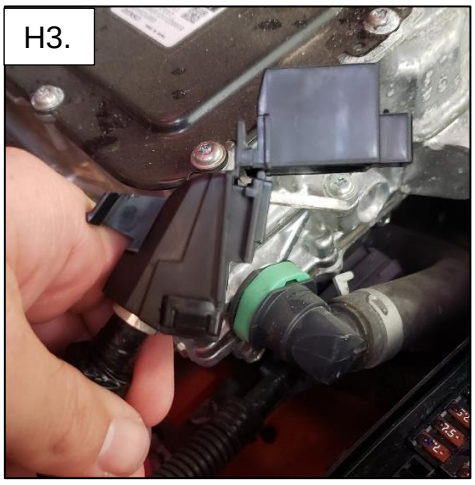
H2. Using a 12mm socket, remove the nut holding down the wire and release the tab to the right of the post. Lift to remove the wire and plastic wire cover.

H3. Twist to pull apart the top of the plastic cable cover until it resembles photo H3. Using a flat head screwdriver, release the 2 tabs on the bottom of the plastic wire cover until the two halves separate and remove them from the wire. Discard the piece that the wire terminal runs through.

H2.



H3.



H4. Replace the battery cable and install the positive (red) ring terminal of the main wiring harness onto the post. Replace the upper battery cable cover and reinstall the 12mm nut and replace the fuse box cover.

H5. Using a 10mm socket, remove the common ground bolt that the main harness relay is secured to and install the negative (black) ring terminal. Replace the ground bolt. Plug the S8 into the wiring harness and test the light. Reconnect the negative battery cable and tighten the nut to secure it.

H4.



H5.



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