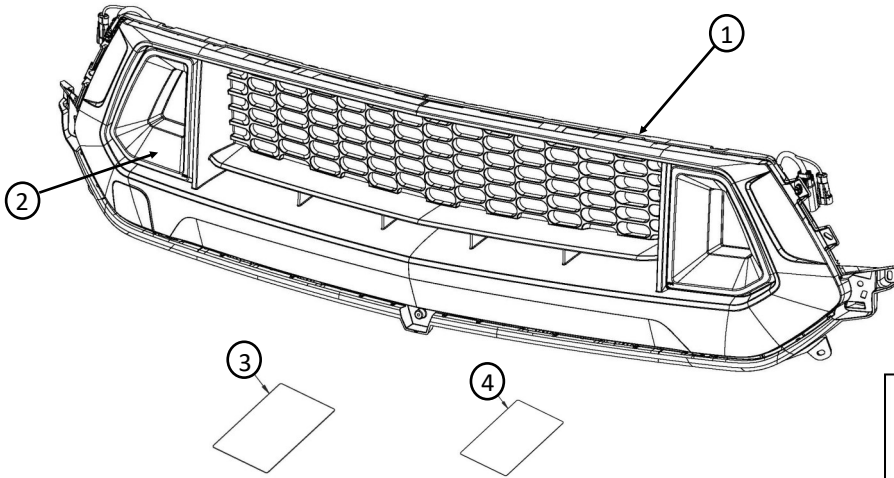




**2024 Ford Mustang  
RTR Upper Grille  
GT and EcoBoost  
Part Number 11011.0011.99.A  
Components Included**

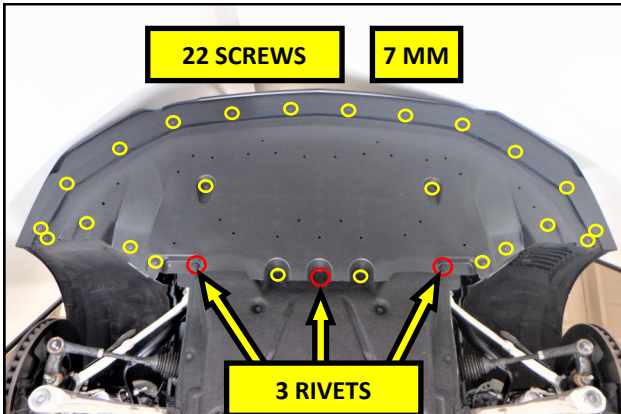


- |    |                          |   |
|----|--------------------------|---|
| 1. | RTR Upper Grille         | 1 |
| 2. | RTR Grille Lights (Pair) | 1 |
| 3. | EcoBoost Block Off Plate | 1 |
| 4. | Installation Scan Card   | 1 |

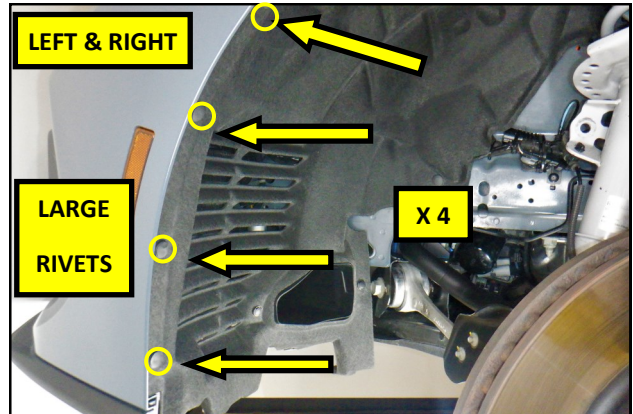


**CAUTION**— IT IS IMPERATIVE THAT THE NEGATIVE BATTERY TERMINAL BE DISCONNECTED BEFORE ATTEMPTING THIS INSTALLATION. FAILURE TO DO SO MAY RENDER THE VEHICLE INOPERATIVE POST INSTALL.

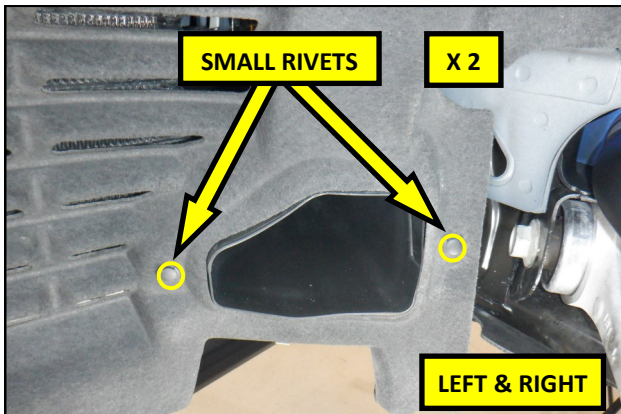
These instructions depict an installation being performed on a Mustang GT, Performance Pack 3. While some installation details may vary from model to model, the general procedure remains the same. Disregard any information that does not apply to your model.



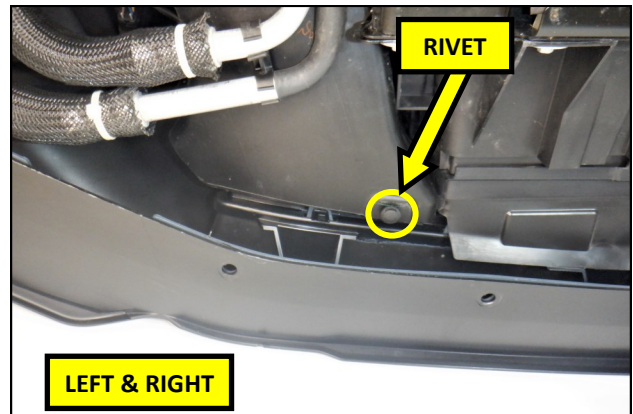
**1.** With the vehicle safely supported on a lift or jack-stands, remove the front wheels and tires. Using a 7mm socket, remove the 22 screws in the debris shield. Pry the center post out of the 3 plastic rivets and remove them. Remove the shield from the vehicle.



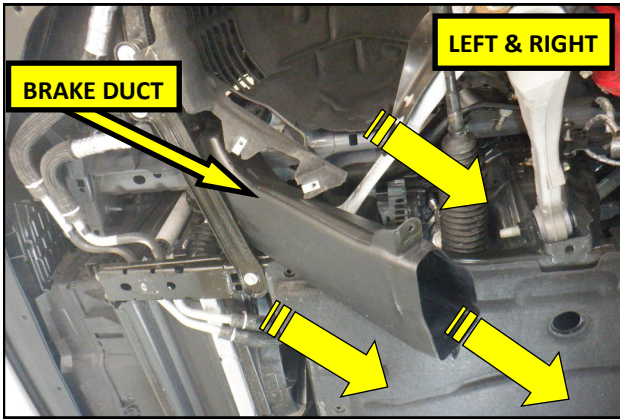
**2.** Remove the 4, large plastic rivets from both of the front fender liners. **NOTE:** This installation will reuse all of the OEM hardware. RTR Advises grouping the hardware by component to avoid confusion during reassembly.



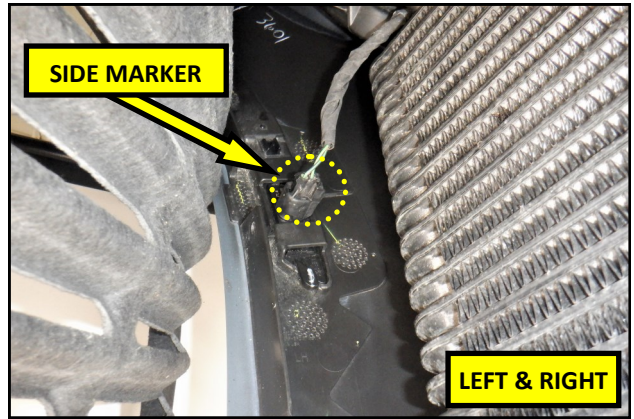
**3.** Remove the 2, small rivets in the brake cooling ducts, if so equipped.



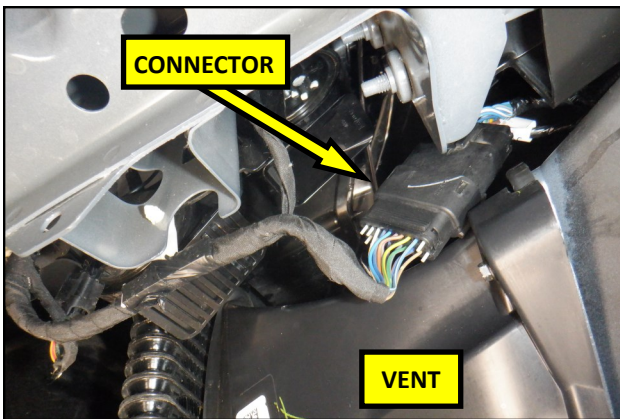
**4.** Remove the single plastic rivet in the cooling duct inlets.



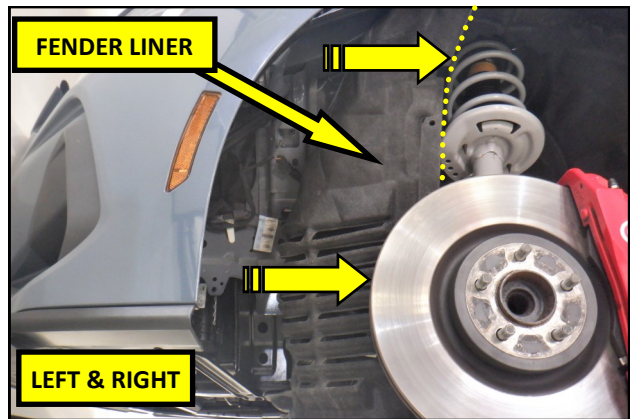
5. Remove the brake cooling ducts from the vehicle and set them aside.



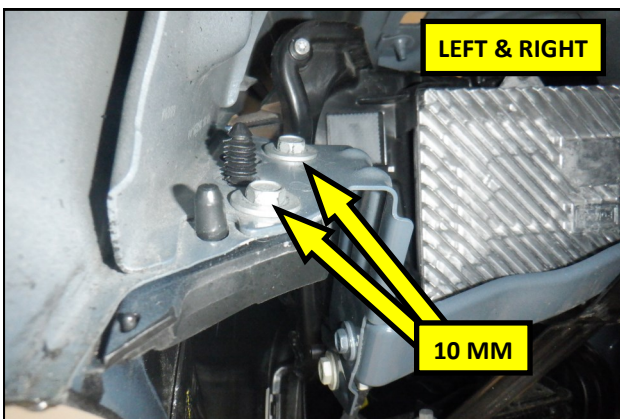
6. Locate and disconnect the side marker lights inside the bumper cover.



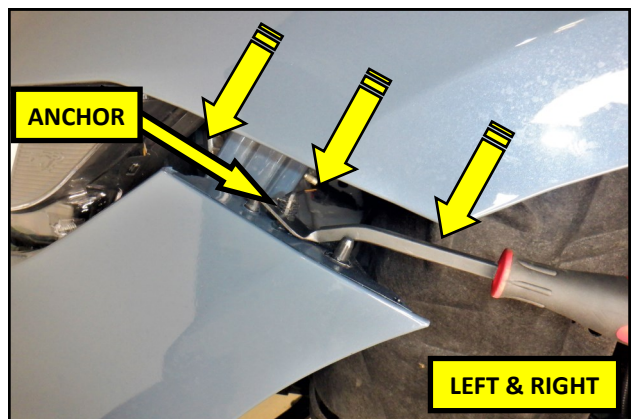
7. Locate and disconnect the bumper wiring harness.  
**NOTE:** There is only one large multi wire harness connected to the bumper cover and it resides near the driver side, lower bumper vent.



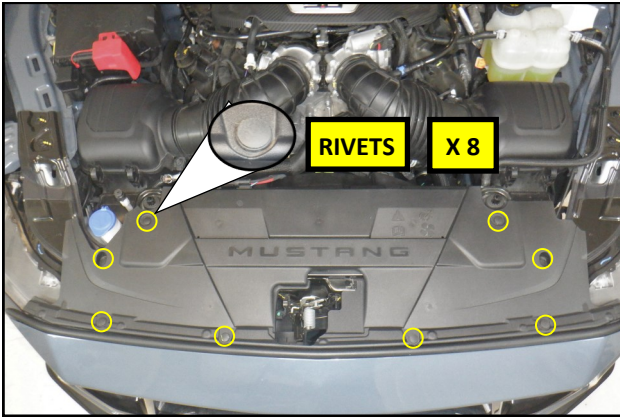
8. Gently fold the fender liners rearward, and behind the brake rotors as shown.



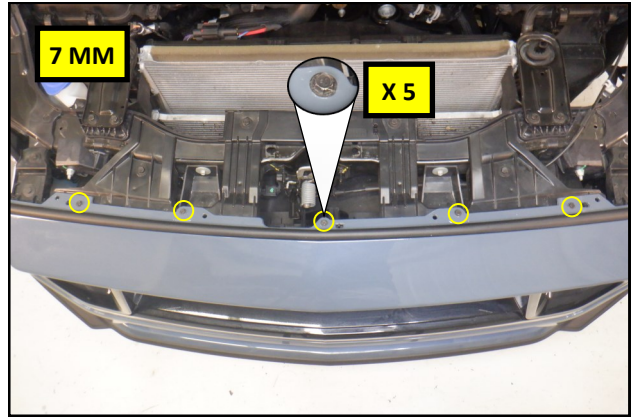
9. Using a 10 mm socket, remove the two bolts securing the bumper cover to fender. Repeat this step on the opposite side of the vehicle.



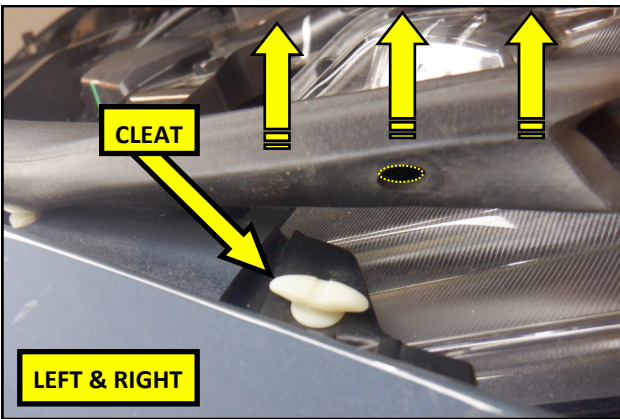
10. Using a panel clip removal tool, or equivalent, pry the fir tree anchors out of the fenders and separate the bumper cover from the fenders as shown.



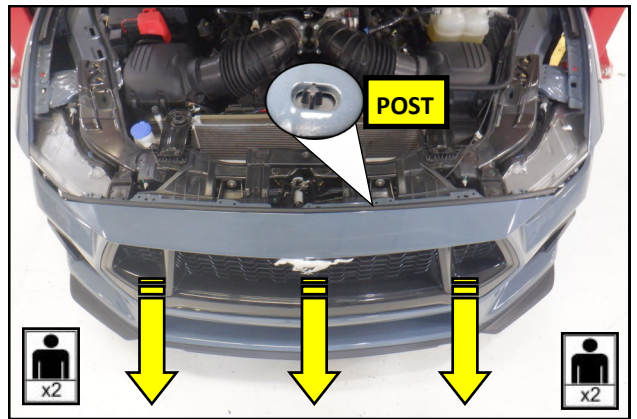
11. Remove the eight plastic rivets in the core support cover and remove the cover from the vehicle.



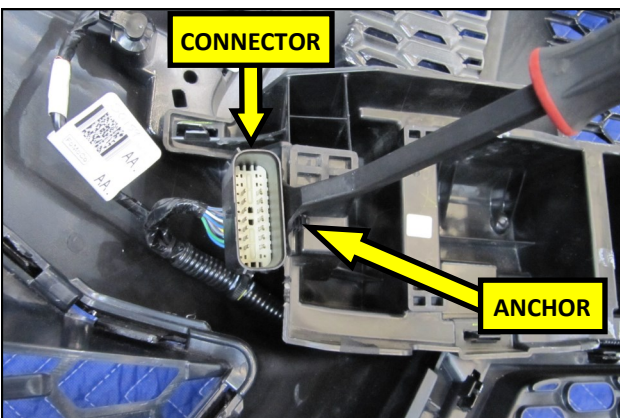
12. Using a 7 mm socket, remove the five screws along the upper bumper cover.



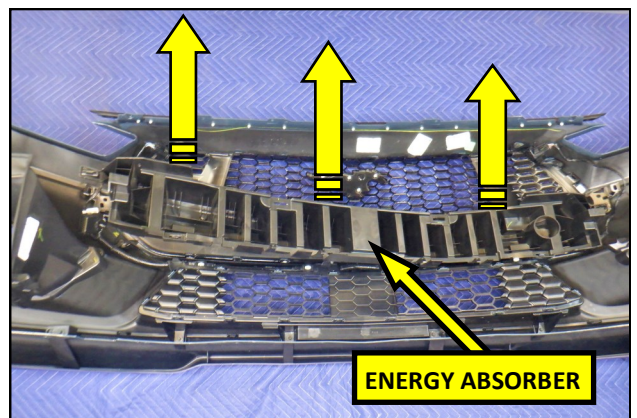
13. Carefully remove the weatherstrip foam from the cleat in the core support on both sides of the vehicle.



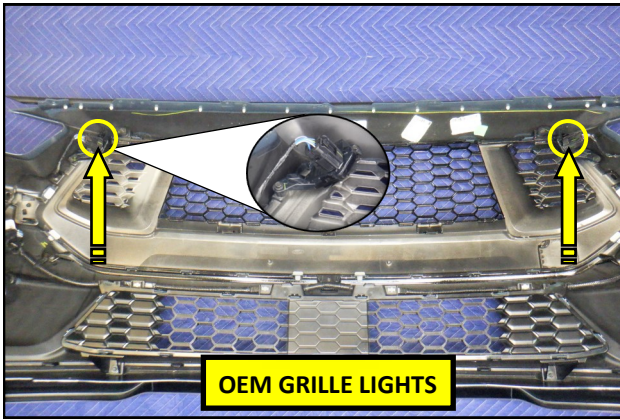
14. With the help of an assistant, lift the bumper cover up and over the core support posts and remove the cover from the vehicle. Place the cover, face down, onto a padded work surface.



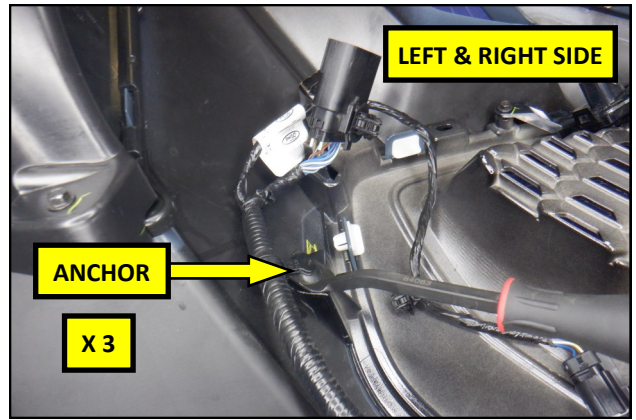
15. Using a panel clip removal tool, pry the large multi pin connector out of the energy absorber.



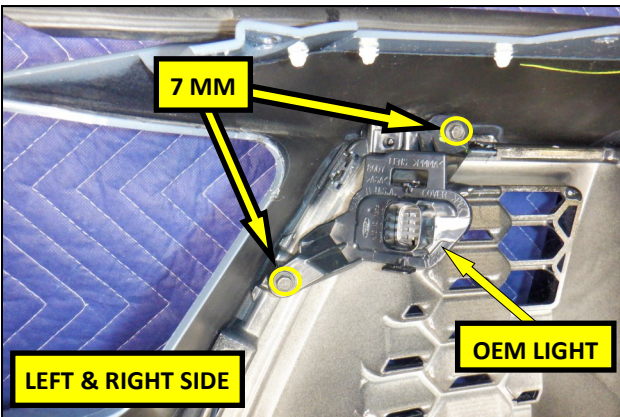
16. Using light finger pressure, depress the bumper cover locking tabs in the energy absorber, and remove absorber.



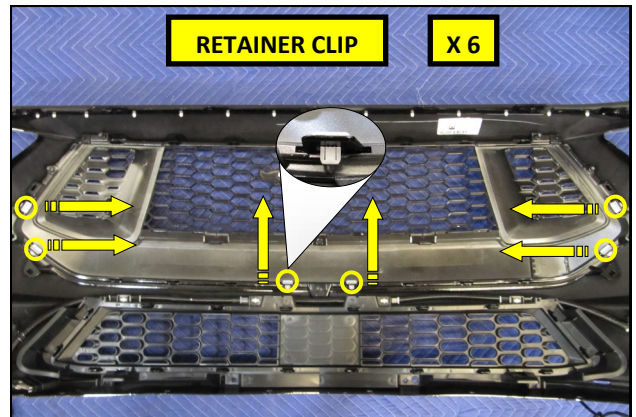
**17.** Locate and disconnect the OEM grill lights on both sides of the grille.



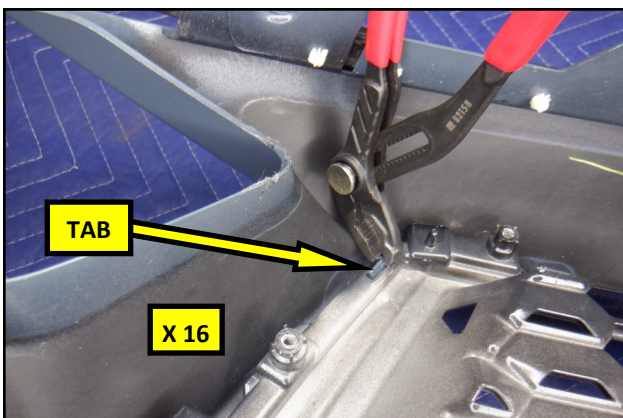
**18.** Using a panel clip removal tool, pry the light harness anchors out on both sides of the upper grill.



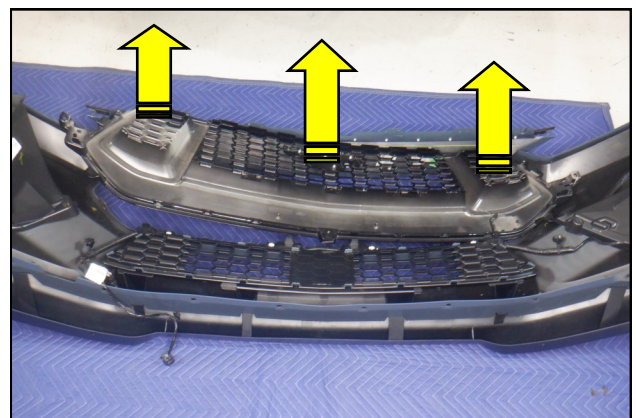
**19.** Using a 7 mm socket, remove the two screws securing the lights to the grille and remove the lights.  
**NOTE:** The OEM grille lights will not be reused with the RTR Grille.



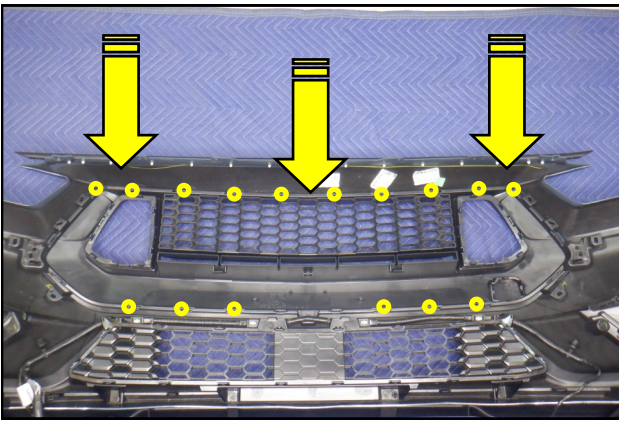
**20.** Depress the locking tabs on the retainer clips and slide them towards the center of the grille to remove them.



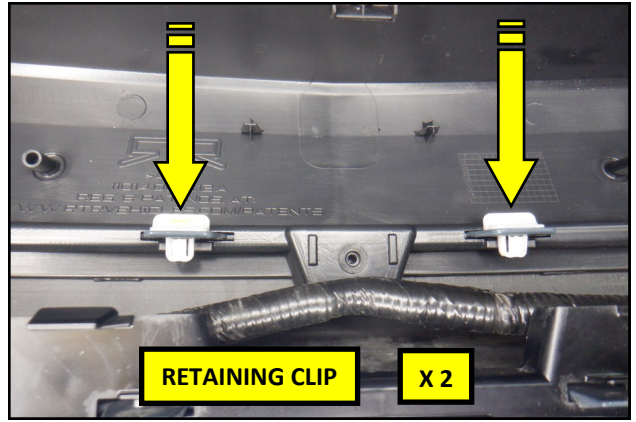
**21.** Using a pair of slip joint pliers, depress the upper grille locking tabs one by one, from left to right, alternating between the top and bottom.



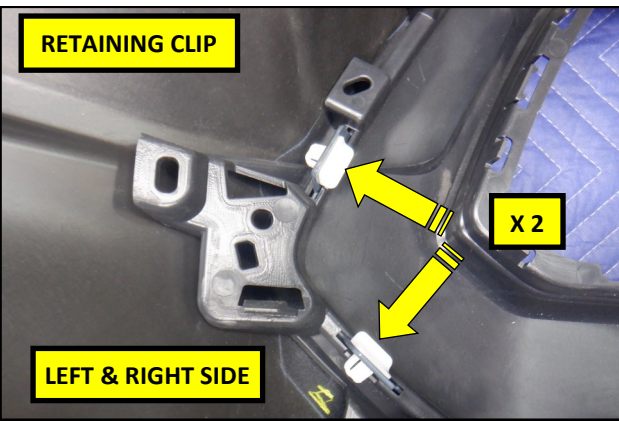
**22.** With all of the locking tabs disengaged, remove the OEM grille from the bumper cover.



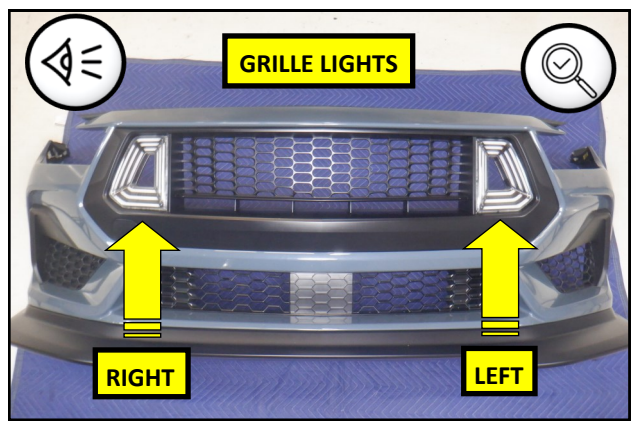
23. Align the bumper cover tabs with the slots in the RTR Grille. Install the RTR Grille onto the bumper cover by engaging the locking tabs, one by one, from left to right.



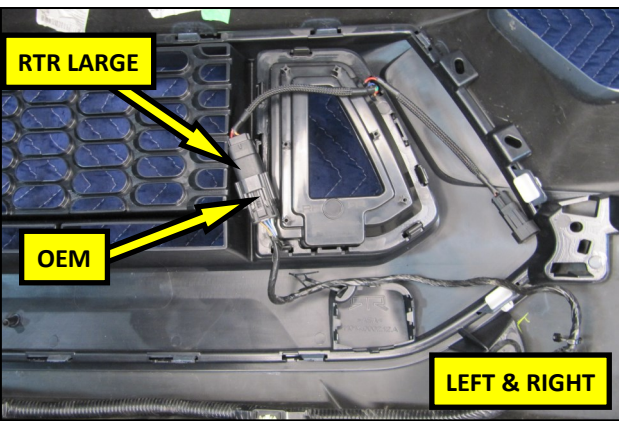
24. Reinstall the retaining clips from step 20, into the center of the bumper cover, as shown.



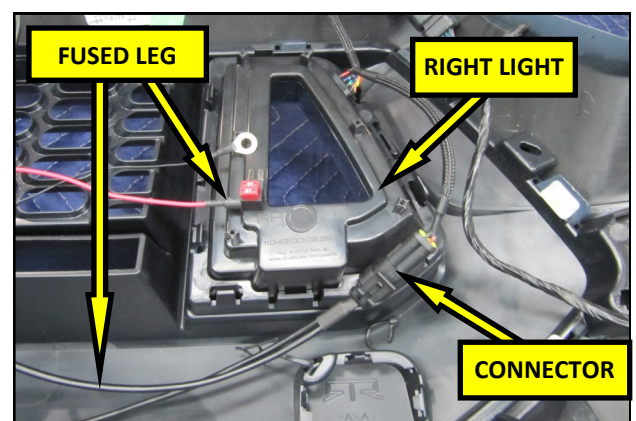
25. Reinstall the retaining clips through the Grille and into the outer ends of the bumper cover, as shown. **ADJUNCT:** If the vehicle is equipped with a front license plate, refer to the region specific RTR Plate Holder instructions and install the Holder. License Plate Holders are sold separately.



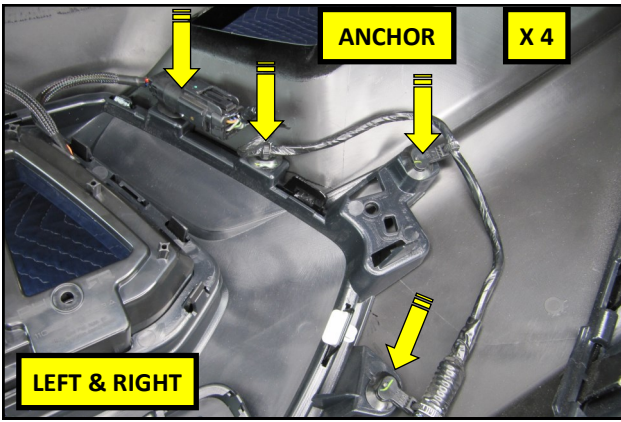
26. Inspect the lights for any damage or cosmetic flaws that may have occurred in shipping. Verify that the wiring grommets are fully seated in the housings and that the connector pins are straight. Following inspection, snap the Lights into the Grille as shown.



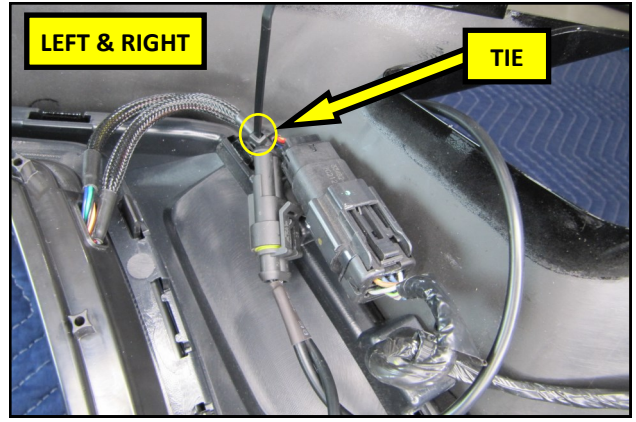
27. Connect the Large RTR Light connectors to the OEM harness from step 17.



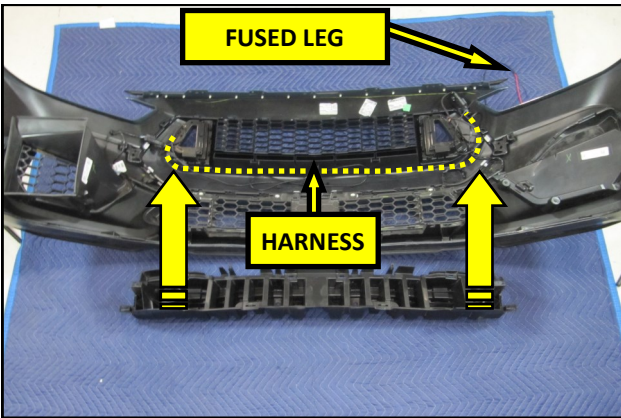
28. Connect the RTR Harness to the second set of connectors on the RTR Lights. When properly connected, the fused and ground leg of the RTR Harness will emanate from the right side connector.



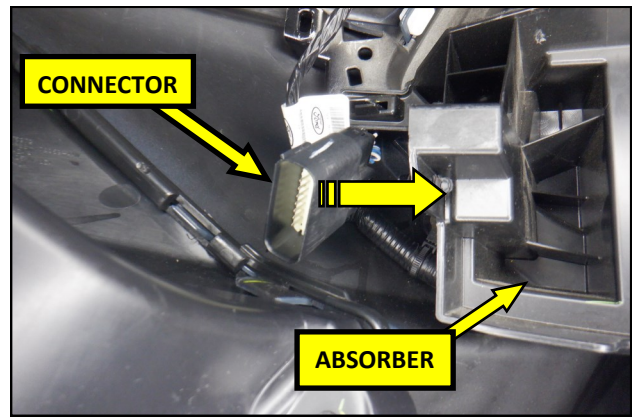
29. Press the OEM harness anchors from step 18 into the slots in the sides of the RTR Grille as shown.



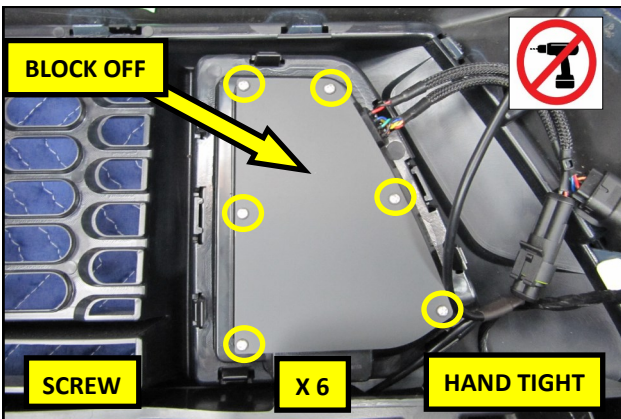
30. Secure the Small RTR connectors to the Large connectors using the supplied Cable Ties. Trim the excess length.



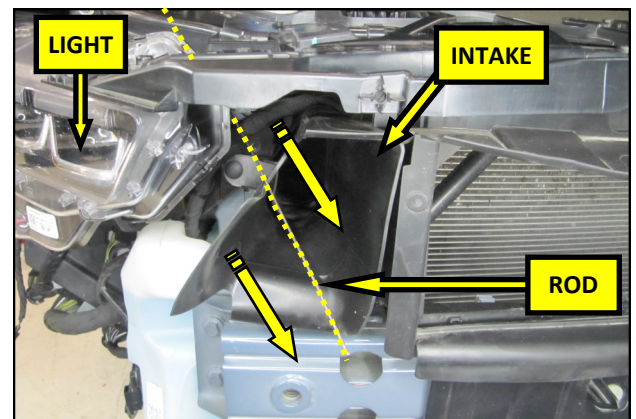
31. Carefully route the RTR Light harness, from light to light, along the center section of the bumper cover as shown. Leave the fused leg of the harness out of the bumper cover. Reinstall the energy absorber into the bumper cover and over the Harness.



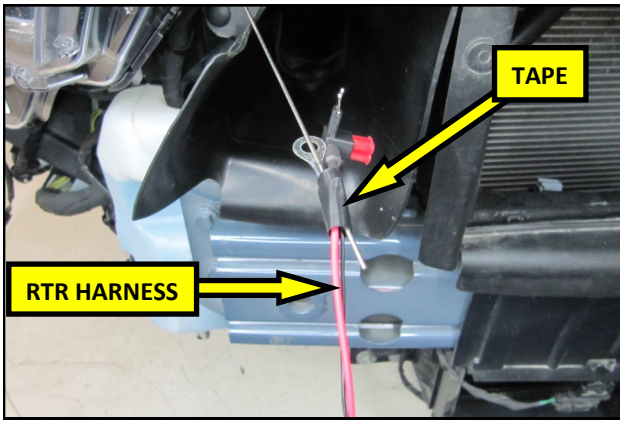
32. Reattach the multi pin connector from step 15 to the energy absorber.



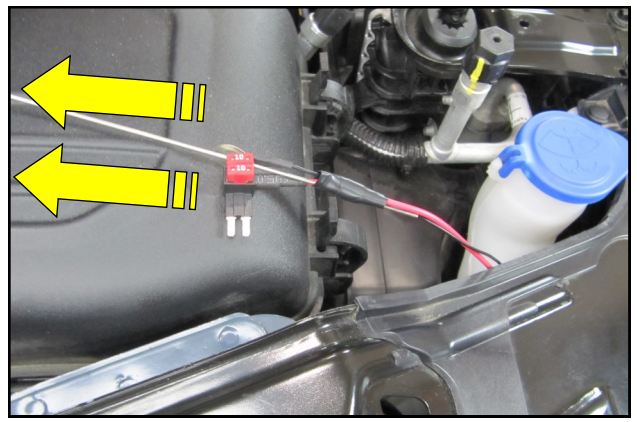
33. EcoBoost Models Only: Using the six supplied Screws, install the Block Off Plate onto the back of the Right side light. Tighten the Screws hand tight to avoid damage to the Light.



34. Starting behind the core support, on the right hand side of the vehicle, feed a welding rod or similar between the head light and the air intake until it emerges at the front of the vehicle, as shown.



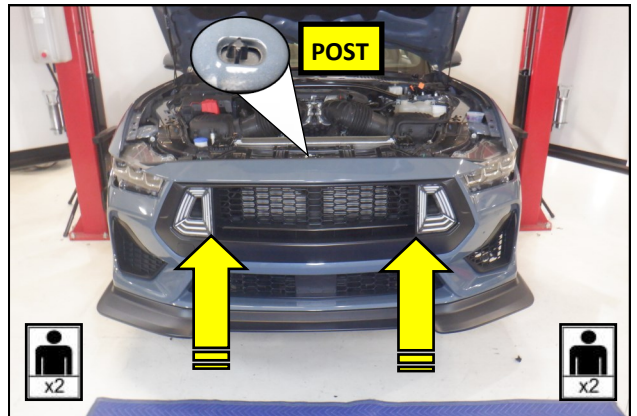
35. Tape the fused and ground leg of the RTR light harness to the welding rod.



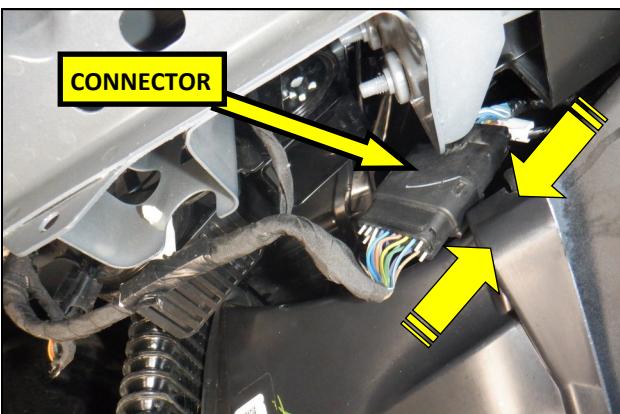
36. Use the rod to pull the RTR Harness through the core support and into the engine compartment as shown



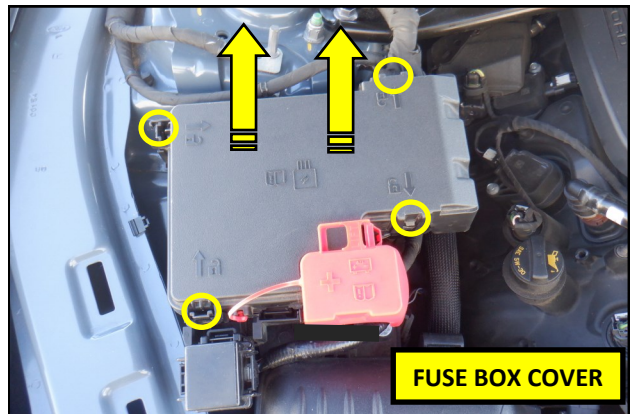
37. Remove the tape and rod from the RTR Harness and set it onto the air box cover at this time.



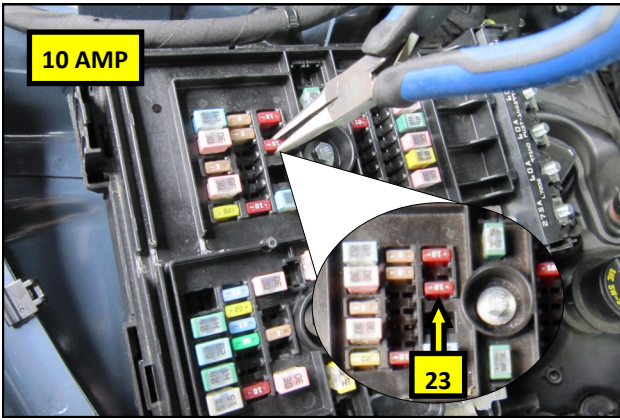
38. With the help of an assistant, lift the bumper cover back onto the vehicle and hang it onto the vehicle using the core support posts.



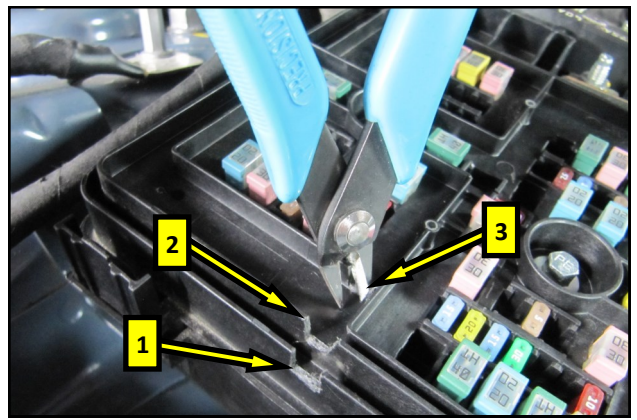
39. Reconnect the bumper wiring harness from step 7.



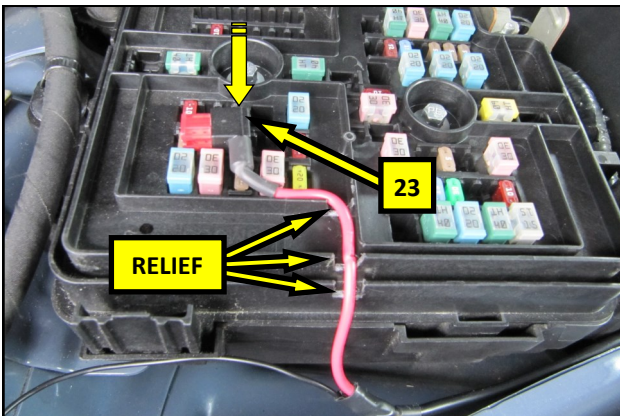
40. Depress the lock tabs on the sides of the fuse box cover, and remove the cover from the vehicle. **Note:** The red, Positive terminal cover is part of the cover.



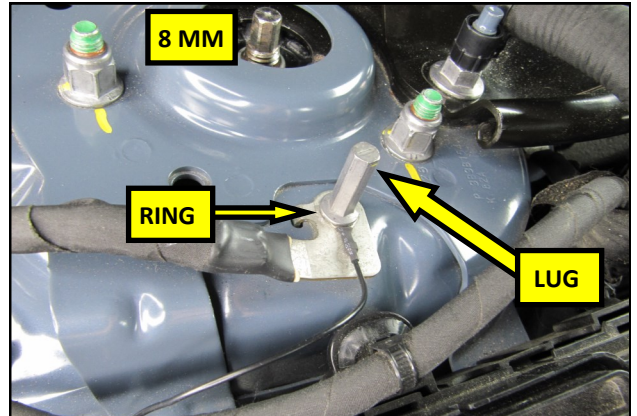
**41.** Locate and remove the number 23, 10 amp fuse from the fuse box. Retain this fuse as a spare.



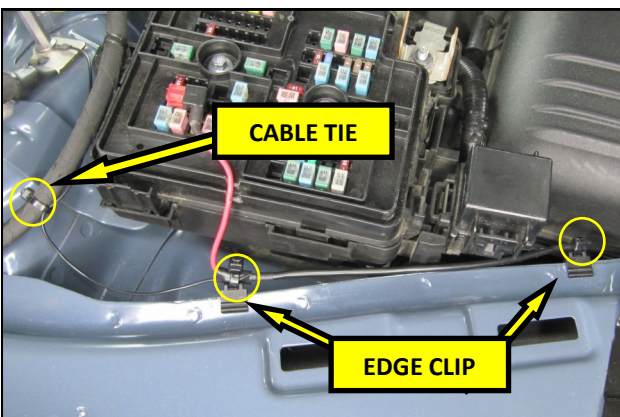
**42.** Using a pair of flush cut pliers or similar, cut 3, 1/4" wide reliefs into the fuse box walls for the RTR wiring.



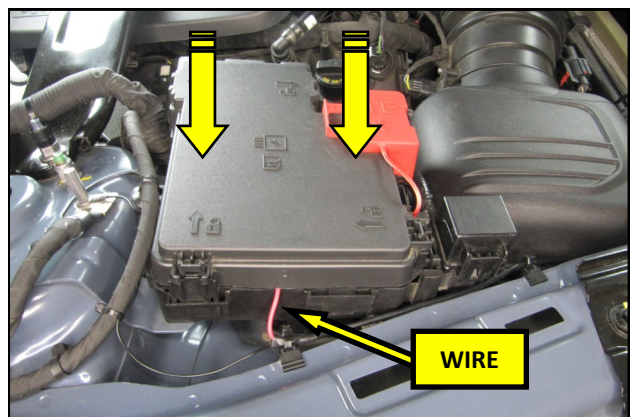
**43.** Pull the RTR Harness up and towards the fuse box. Route the fused leg of the RTR Harness into the fuse box as shown, and insert the fuse into the number 23 location from step 41.



**44.** Route the ground wire of the RTR Harness around the fuse box and secure the ring terminal to the chassis using the lug on the shock tower. Reconnect the negative battery terminal at this time.

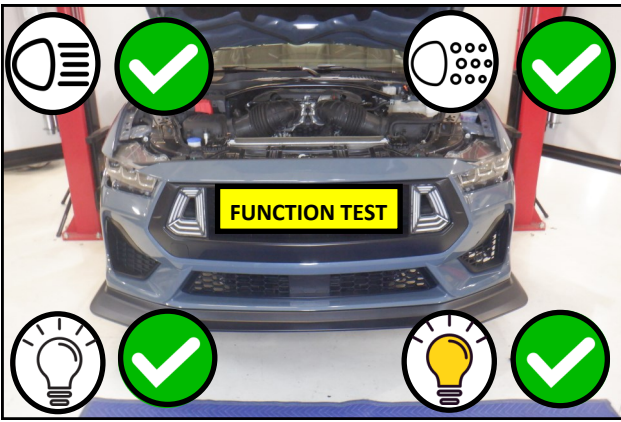


**45.** Use the supplied Edge Clip, and Standard Cable Ties to secure the wiring as shown. Trim the excess

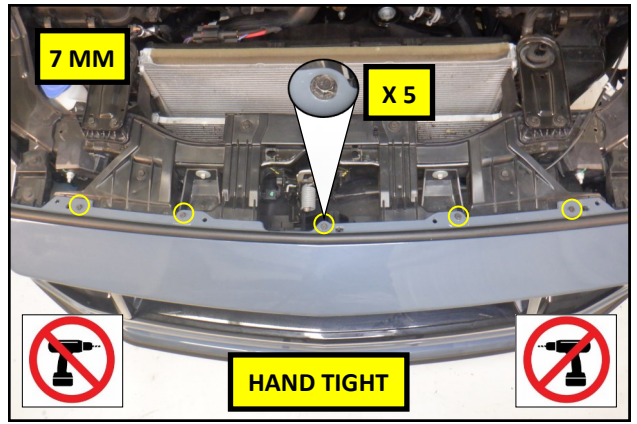


**46.** With the RTR Power wire routed correctly in the fuse box, reinstall the fuse box cover .

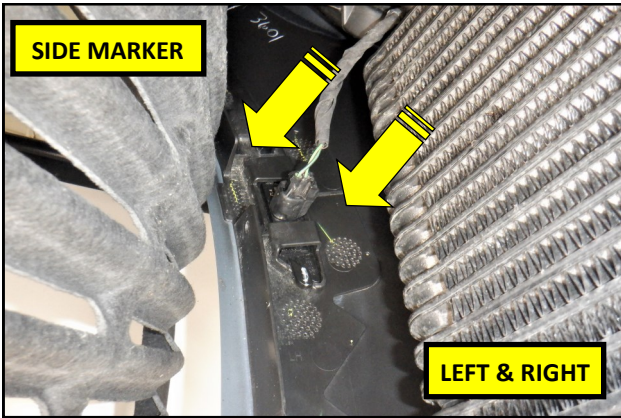




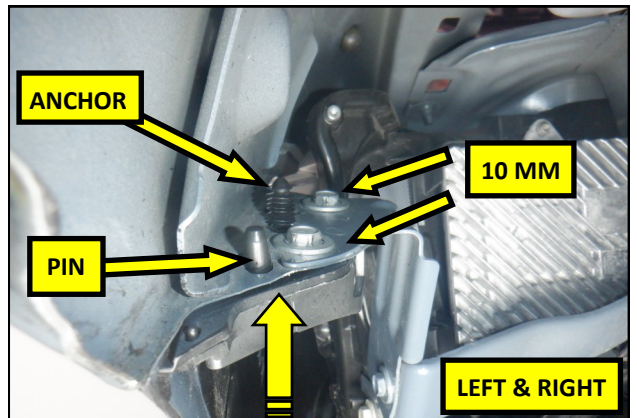
47. Perform a function test of the vehicle lighting. Verify proper illumination of the headlights, DRLs, RTR Grille Lights (white), and that the RTR Lights flash amber when the turn signals are on. **NOTE:** Trouble shooting tips can be found on page 10 of this document.



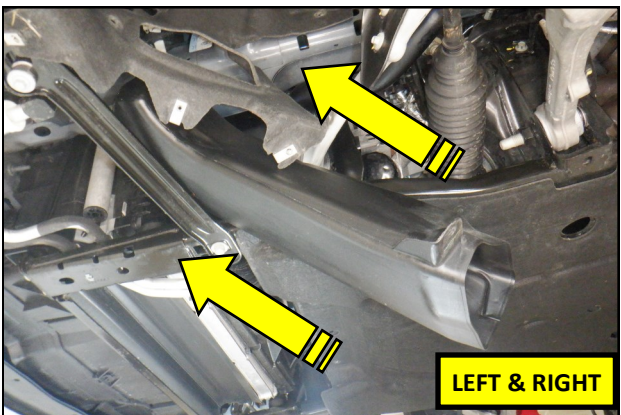
48. Following a successful function test, use a 7 mm socket to reinstall the five OEM screws along the upper bumper cover. Tighten the screws by hand to avoid over damage to the core support.



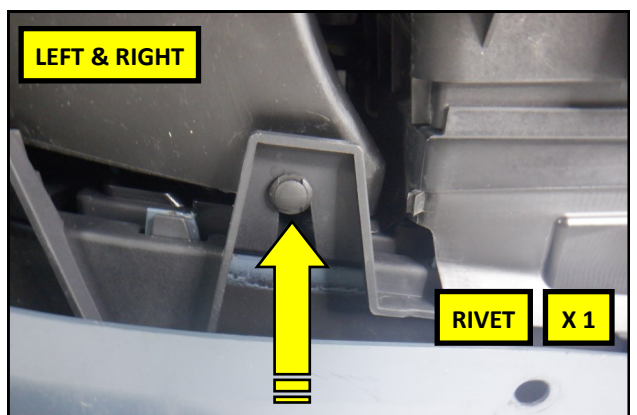
49. Reconnect the side marker lights from step 6, on both sides of the vehicle.



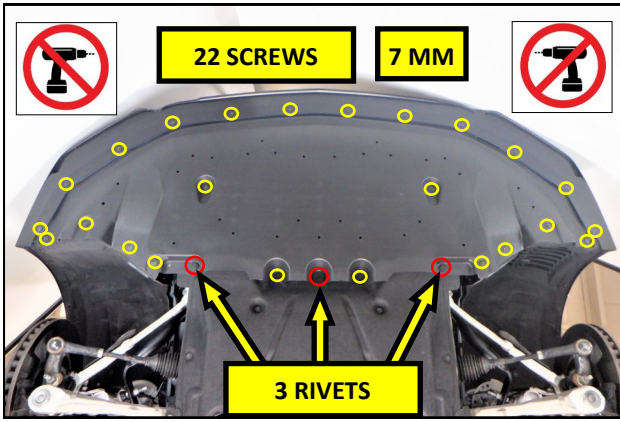
50. Lift the bumper cover up and press the fir tree anchor and guide pins into the fender. Using a 10 mm socket, reinstall the two OEM bolts to secure the bumper to the fender. Repeat this step on the opposite side of the vehicle.



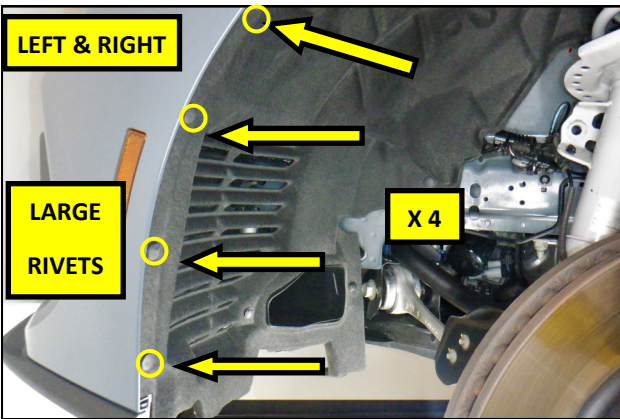
51. Reinstall the brake cooling ducts into the vehicle.



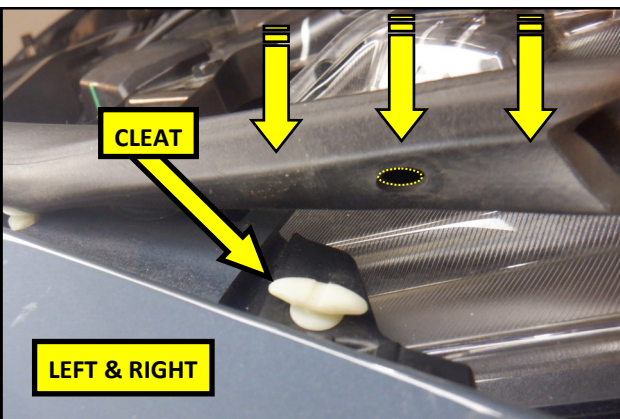
52. Reinstall the plastic rivet into the brake cooling duct inlet.



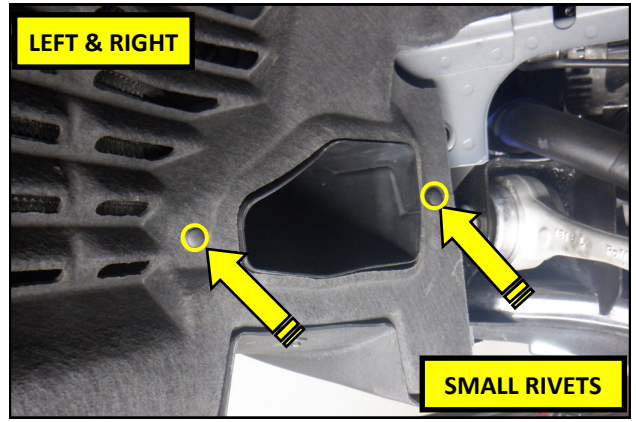
53. Lift the debris shield up and into the vehicle. Using a 7mm socket, reinstall the OEM screws and the plastic rivets. Tighten the screws by hand to avoid over tightening.



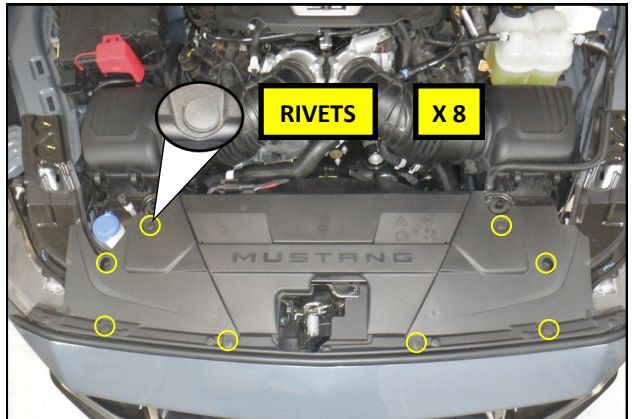
55. Unfold the fender liner and position it for reinstallation onto the bumper cover. Reinstall the 4, large plastic rivets into the front fender liners and cover.



57. Carefully reattach the weatherstrip foam to the cleats on each side of the vehicle. Reinstall the wheels and tires to complete the installation.



54. Reinstall the small plastic rivets into the cooling duct outlets.



56. Reinstall the core support cover using the 8 OEM rivets removed in step 11.

#### TROUBLESHOOTING TIPS FOR LIGHTING

- I. Check fuses. Check all connections mentioned in this manual for positive engagement.
- II. Check all connector pins for proper alignment. Realign if necessary.
- III. Verify the RTR fuse is in the correct location in the fuse box.
- IV. Verify RTR harness is properly grounded and not in contact with corrosion. Clean if necessary.
- V. Verify the vehicle battery voltage is above 12 V. Charge if necessary.

For additional assistance, please contact RTR Customer Service Mon-Fri 9am-4pm EST 704-459-4850

**CAUTION!** The additional airflow gained by installing the RTR Grille Lights may increase the risk of water ingestion under extreme circumstances. Do not exceed 5 MPH when driving through standing water. Driving through deep standing water may cause severe engine damage. Preventing water ingestion is the driver's responsibility.