

2020+ SUPERDUTY XB LED HEADLIGHTS 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.

PACKAGE CONTENTS



2X HEADLIGHT ASSEMBLIES
(WHITE OR AMBER)



1 X FUSE TAP / DRL HARNESS

(OPTIONAL LF508H-LED ADAPTOR HARNESS)



2 X LIN BUS MODULE



1 X BATTERY HARNESS



1 X CROSSOVER HARNESS

IMPORTANT: If your vehicle is equipped with anything but Morimoto or OEM tail lights, side markers or other OEM exterior lighting; you may experience a hyper flash and/or problem with the sequential signal setting on these headlights. This is not a defect in the headlight, and caused by un-matched impedance with your original vehicle settings.

2020+ FORD SUPERDUTY



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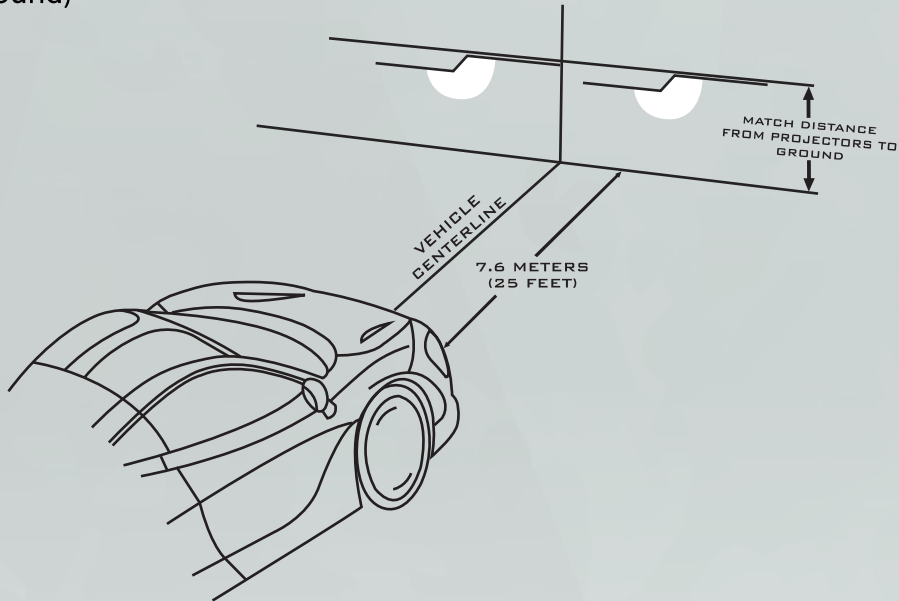
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REQUIRED TOOLS

- | | |
|---------------|--|
| - RATCHET | - FLAT HEAD SCREWDRIVER OR TRIM REMOVAL TOOL |
| - 10MM SOCKET | - PHILIPS HEAD SCREWDRIVER |
| - 13MM SOCKET | - NEEDLE NOSE PLIERS |
| - PICK TOOL | - TAPE MEASURE |

VERTICAL HEADLIGHT AIMING PROCEDURE

- To properly aim your Morimoto headlights, first park your truck on a level surface 25 feet from a wall.
- Then with a tape measure, measure the distance between the ground and your headlight beam (picture below).
- Write down this distance.
- Once you install your Morimoto headlights, park the same way as you did with your pervious headlights
- Aim your Morimoto headlights to shine as high as your previous headlight (measure ment you too above).
- The general rule is to then drive the truck around and look at surrounding vehicles to make sure your headlight beam isn't directly in their eyes, if it is then lower your headlights. (this mat vary depending on how high your truck is from the ground)



- To adjust the low beam, slide a philips head screwdriver into this slot and turn the screwdriver counter clockwise to move the beam up and turn clockwise to move the beam down.



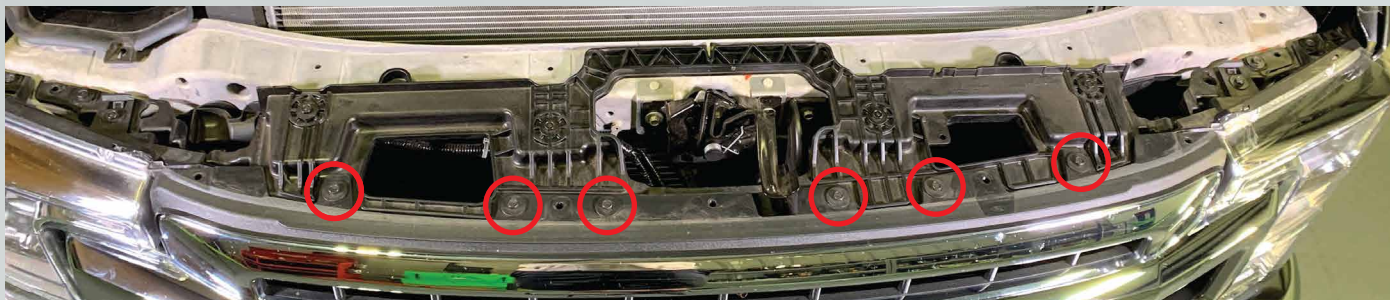
AFTER COMPLETING THE FIRST FEW STEPS IN THE AIMING PROCEDURE YOU MAY PROCEED TO INSTALLING YOUR MORIMOTO HEADLIGHTS AS FOLLOWS.

INSTALLATION PROCESS

1. Remove the fourteen (14) plastic clips holding on the grille cover. Then remove the cover off the truck.



2. Remove the six (6) 10mm bolts holding the top of the grille.



3. Remove one (1) 10mm nut holding the grille to the headlight. Repeat on the other side of the grille.



4. To remove the bottom chrome trim piece on the grille, grab a pick and pry down on these locking tabs. While releasing the locking tabs slowly start prying out on the trim piece so it doesn't lock back into place. Repeat on the other side of the grille.

(IF YOU DO NOT HAVE THIS KIND OF GRILLE SKIP TO PAGE 6 FOR FURTHER INSTRUCTION)



5. With a plastic pry tool carefully pry the chrome trim away from the grille to release all of the clips.



- Here is a top view picture of the chrome trim piece off of the truck, so you can reference all of the clips.



6. Remove these two (2) 10mm bolts that secure the bottom of the grille.



If you have this style of grille, complete the following steps. If not then skip to step #9.



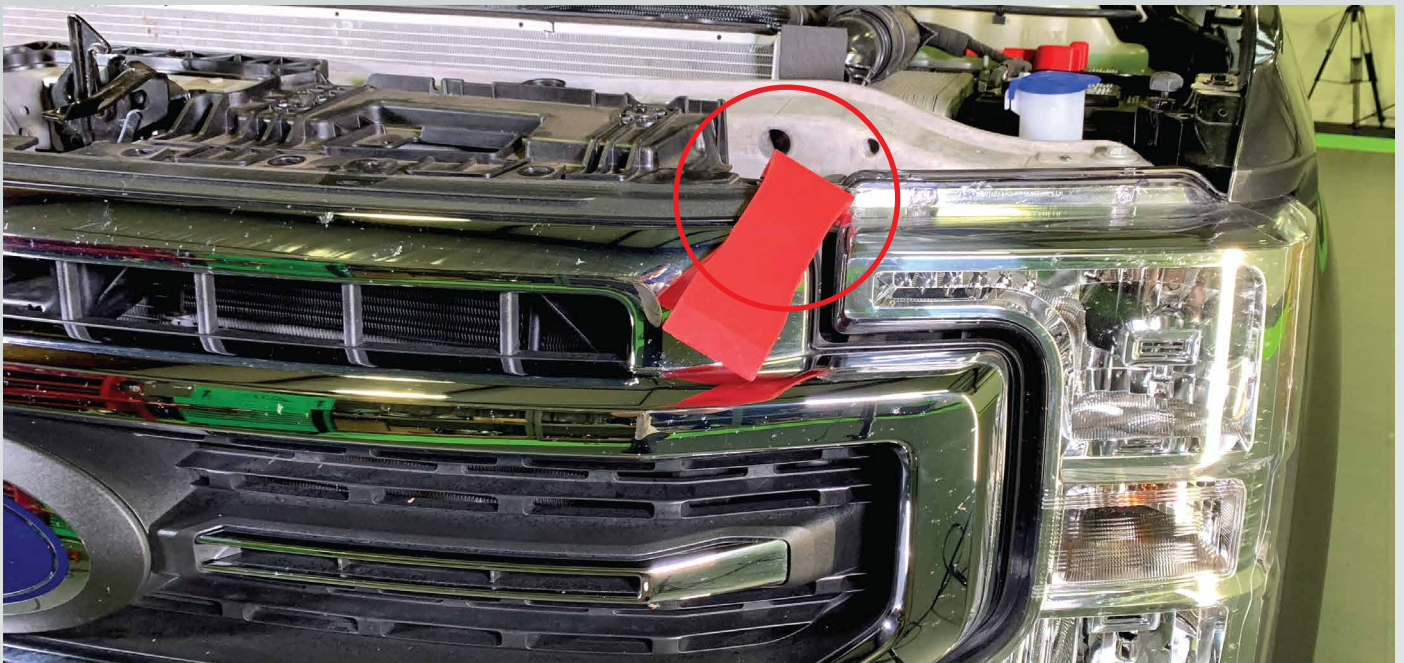
7. Take a pry tool, and pry this flap towards the middle of the grille. Repeat this on the other side of the grille.



8. Once the flap is off, remove the 10mm bolt. Repeat this on the other side of the grille.



9. Pry the grille forward in this spot to release the clips.

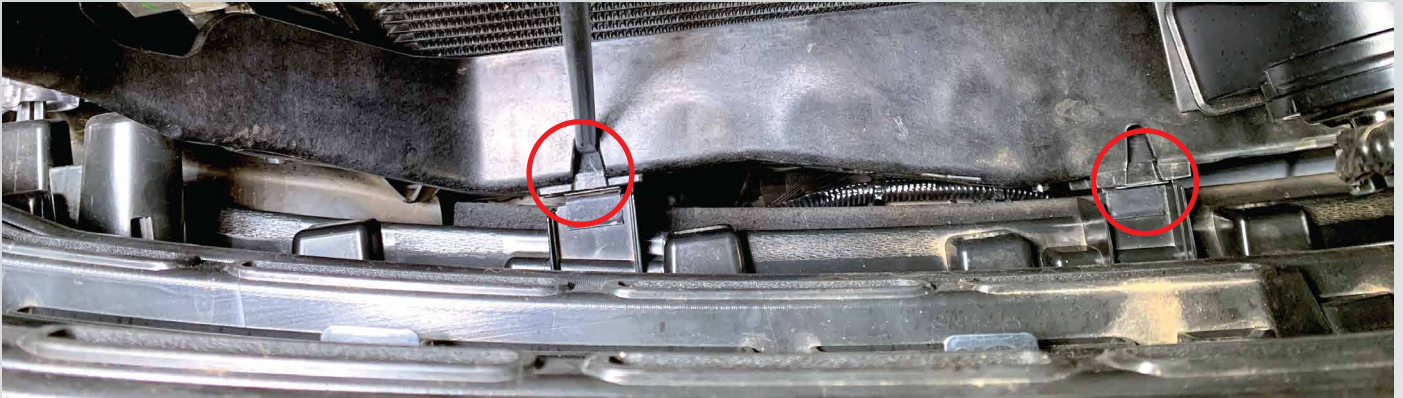


10. Pry the grille forward in this spot to release the clips.



11. Repeat step #9-10 on the other side of the grille.

12. With the grille angled forward, take a flat screwdriver and press these four (4) metal clips down to release the bottom of the grille. Now you can remove the grille off of the truck.



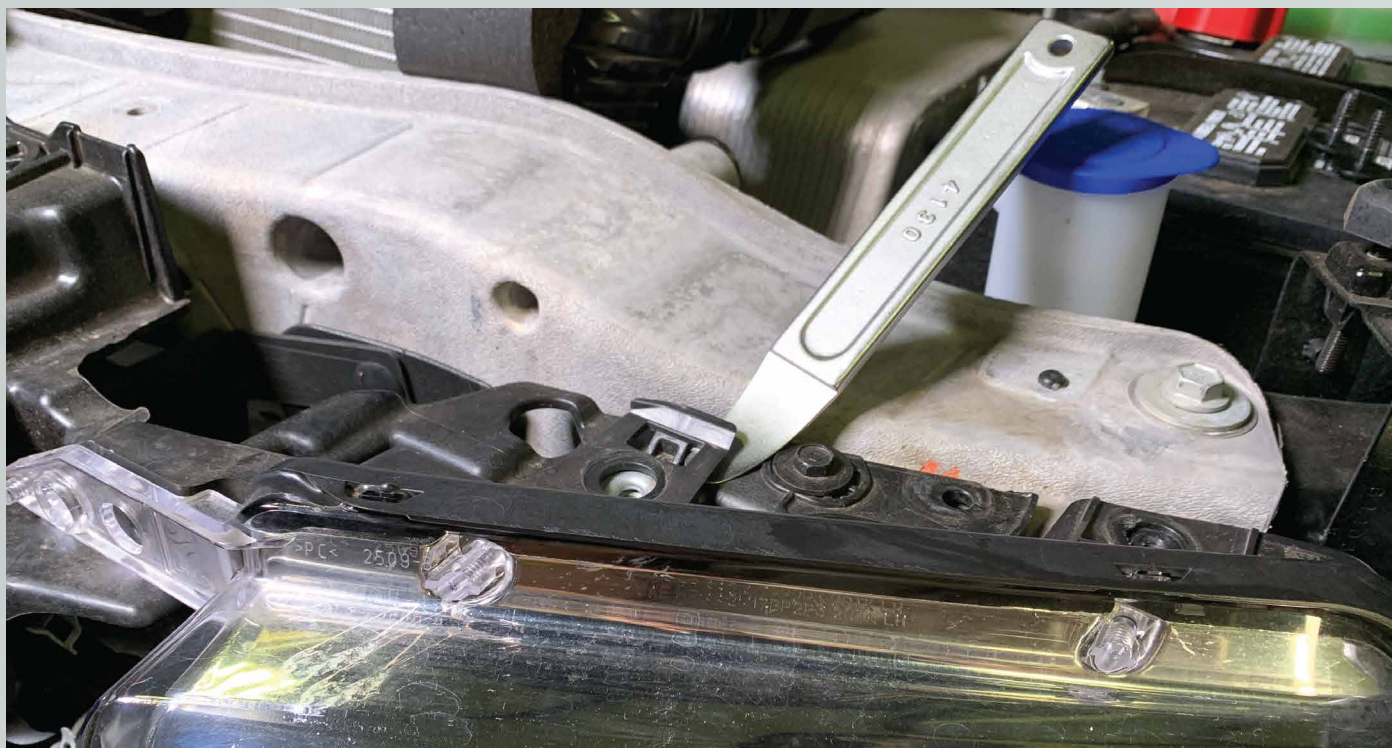
13. Remove one (1) 13mm bolt holding the bottom tab of the headlight to the fender.



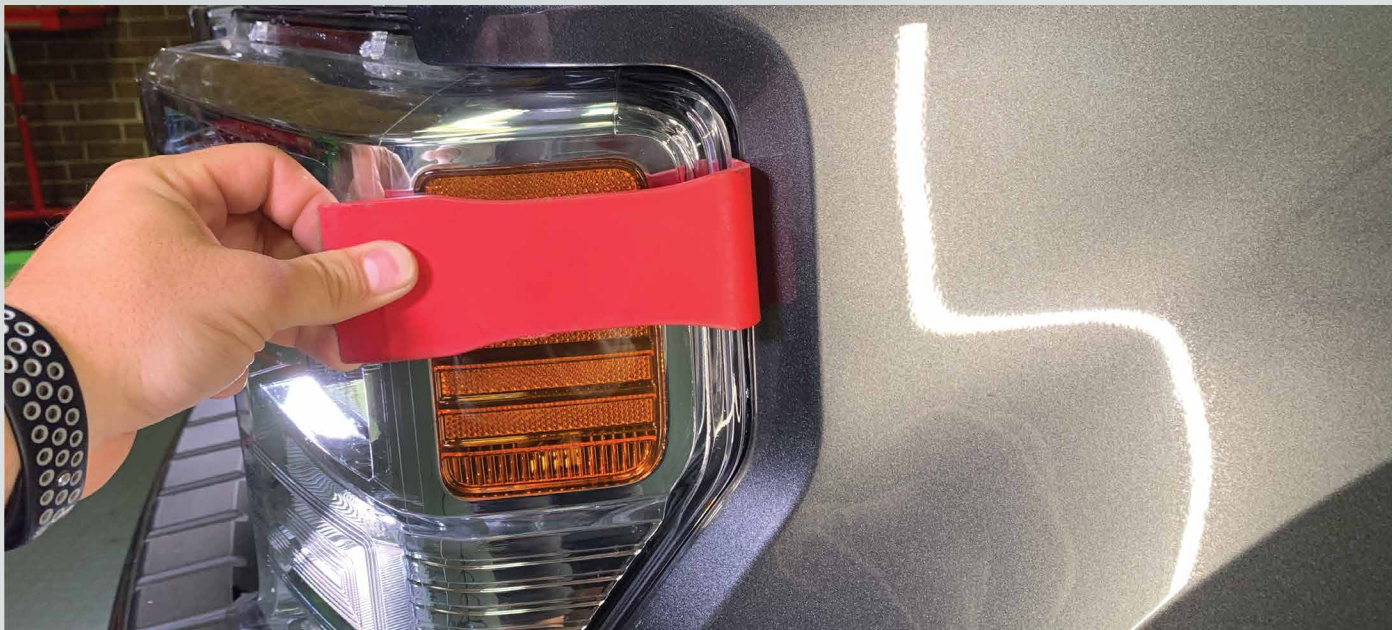
14. Remove two (2) 10mm bolts holding the top of the headlight.



15. Pry up on this tab to release the top of the headlight.



16. With a plastic pry tool, pry the side of the head away from the fender to release it.



OEM HEADLIGHT IDENTIFIER

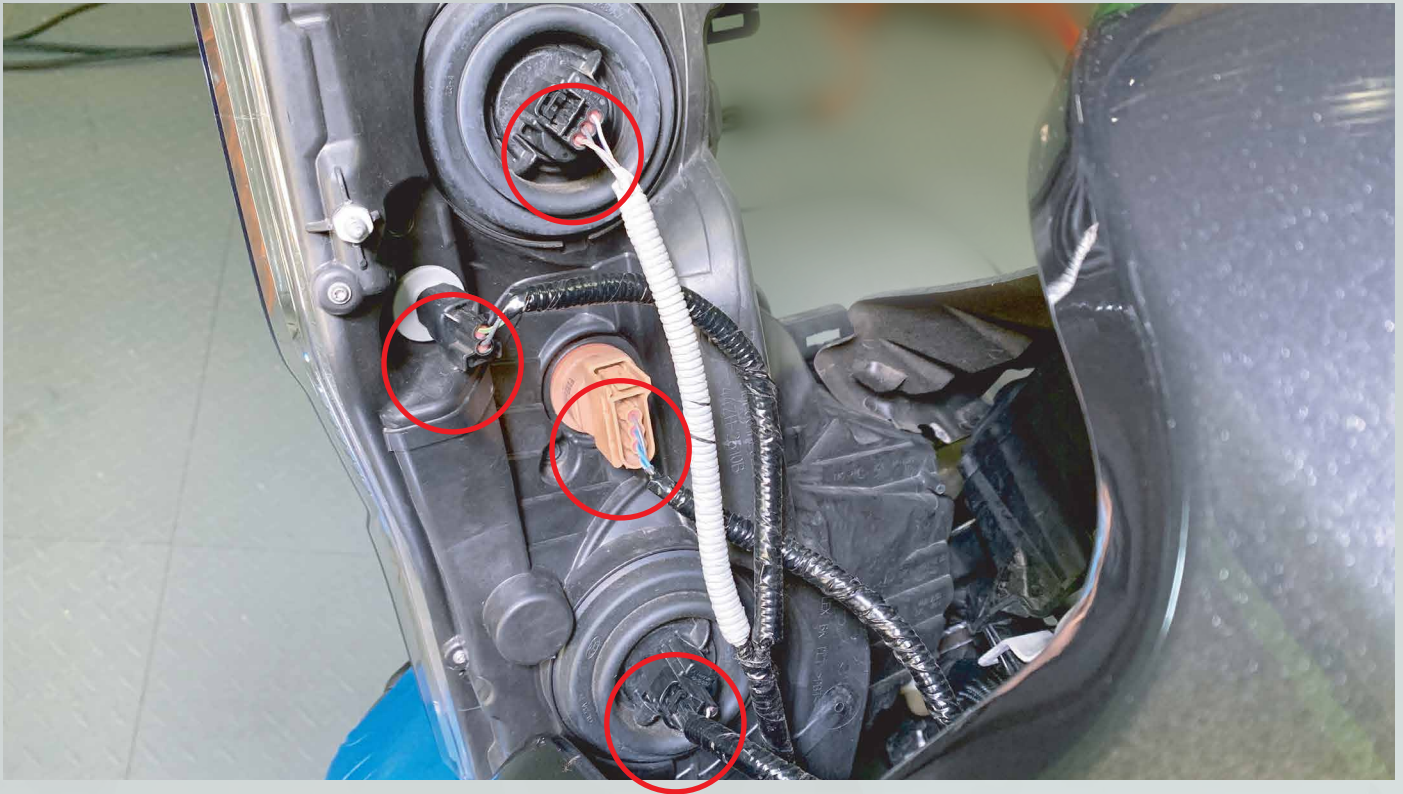


OEM HALOGEN (PROCEED TO PAGE 12)



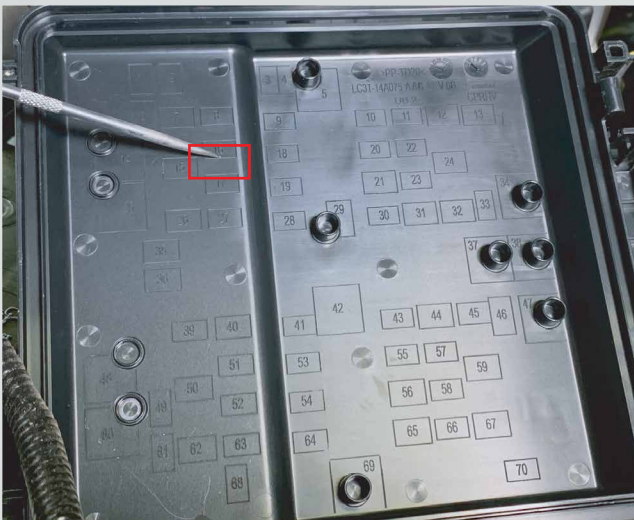
OEM LED (PROCEED TO PAGE 15)

17. Slide the headlight forward. Unplug the four (4) connectors, to do so press the release tab and pull the connector off.



18. Repeat steps #13-17 on the other headlight.

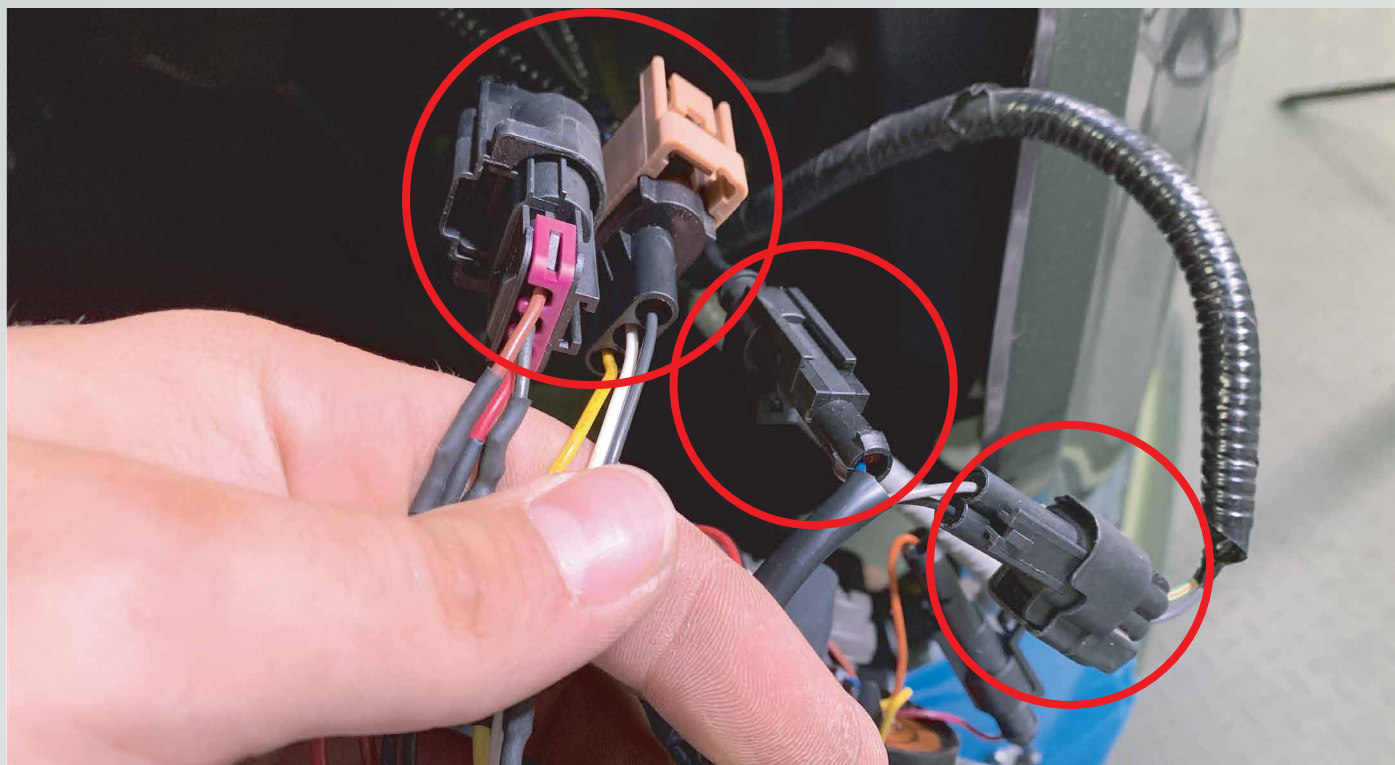
19. Locate the under hood fuse box located by the firewall on the passenger side of the truck and remove the cover. Locate and remove fuse #16.



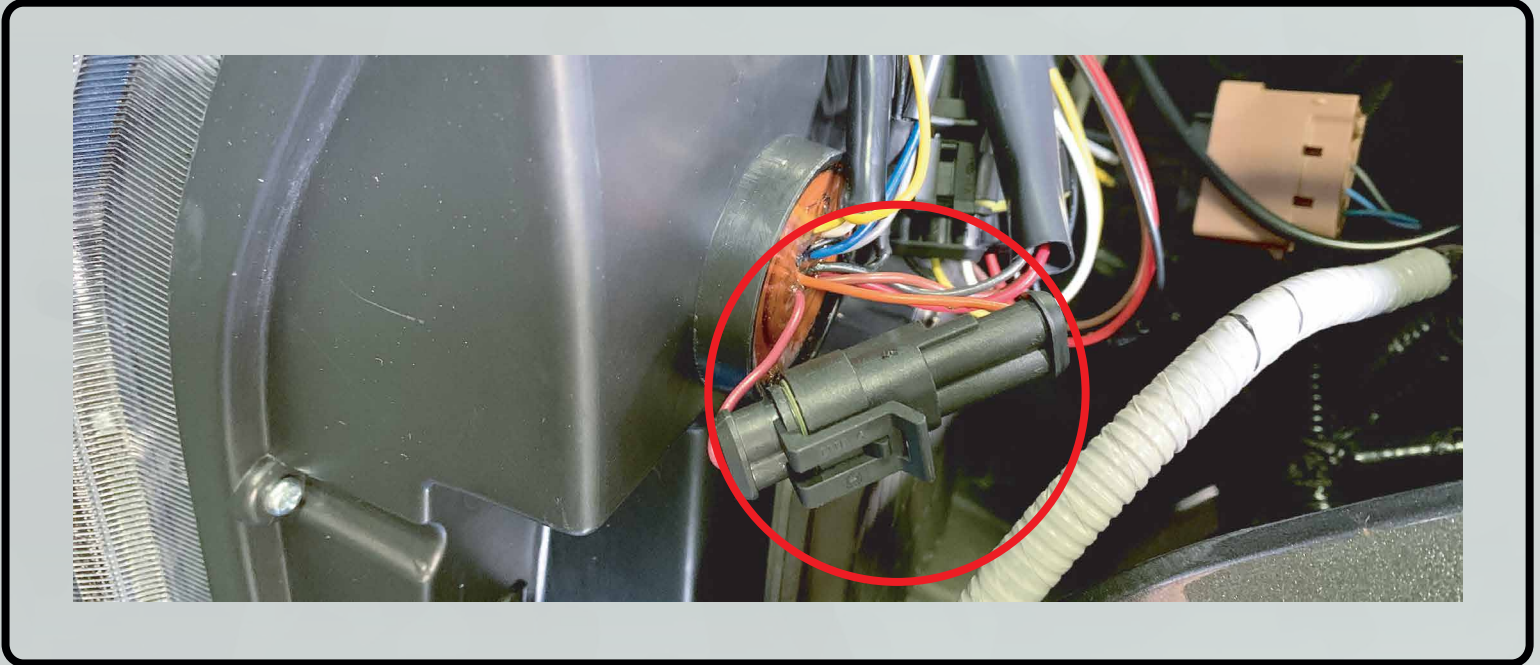
20. Locate the included DRL harness, plug in the fuse side of the harness into fuse slot #16. Run the short side of the harness to the passenger headlight area and run the long side to the driver headlight area.



21. Grab one XB headlight and make these four (4) wiring connections.



22. Toggle between standard and sequential turn signal with this connector. Leave the connectors plugged in for a sequential turn signal. Leave the connectors unplugged for a standard turn signal.



23. Place the headlight in it's place on the truck and thread in the bolts.
24. Repeat step# 22-24 on the other side of the truck.
25. Turn the truck on and test all of the functions to make sure everything works.
26. Reassemble the truck in the reverse order that you took it apart.

PROCEED TO PAGE 3 FOR AIMING INSTRUCTIONS

INSTALL ON OEM LED TRUCK



PACKAGE CONTENTS



2 X LIN BUS MODULE

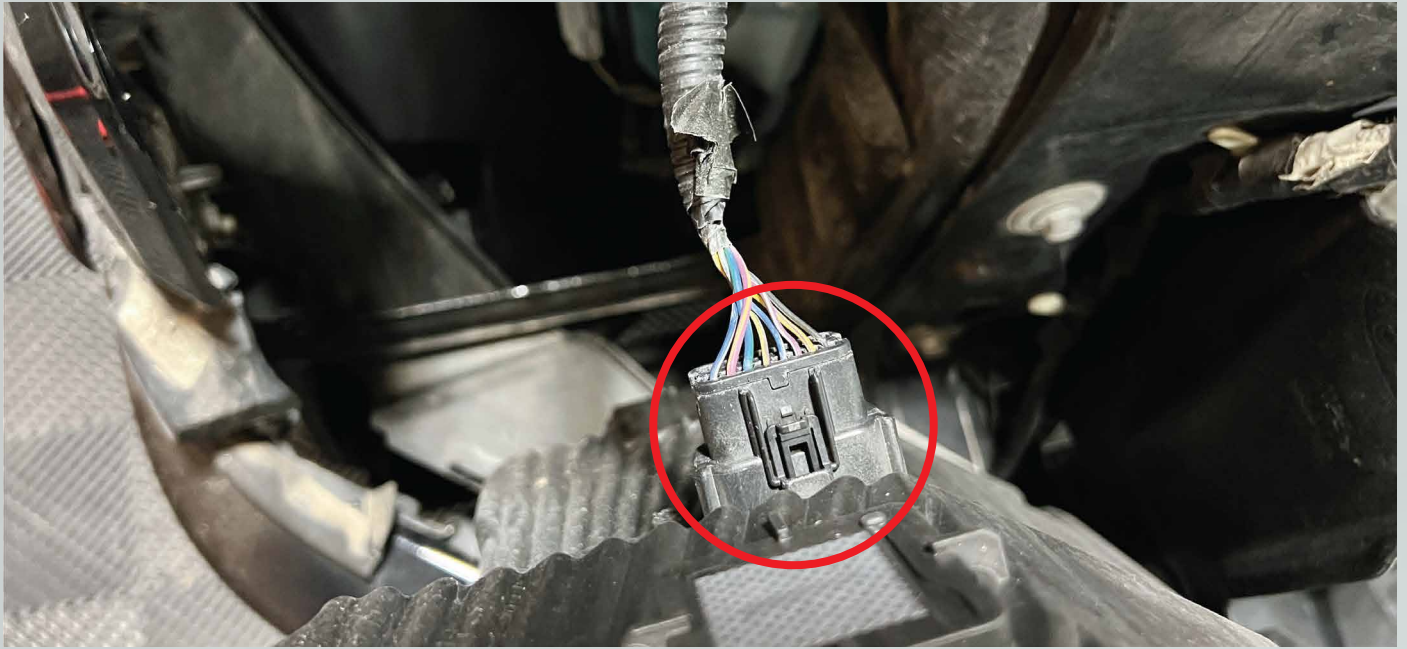


1 X CROSSOVER HARNESS



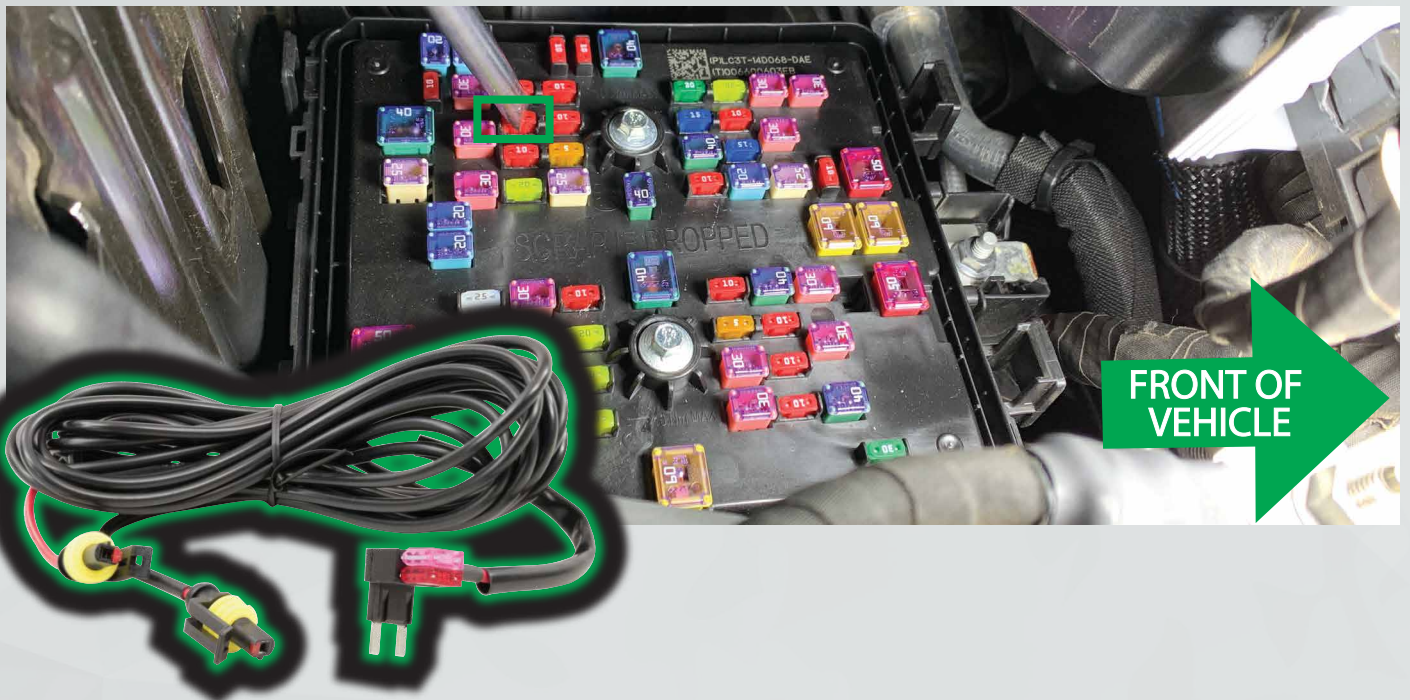
1 X BATTERY HARNESS

27. Complete steps #1-16. Slide the headlight forward. Unplug the multi pin connector, to do so press the release tab and pull the connector off.

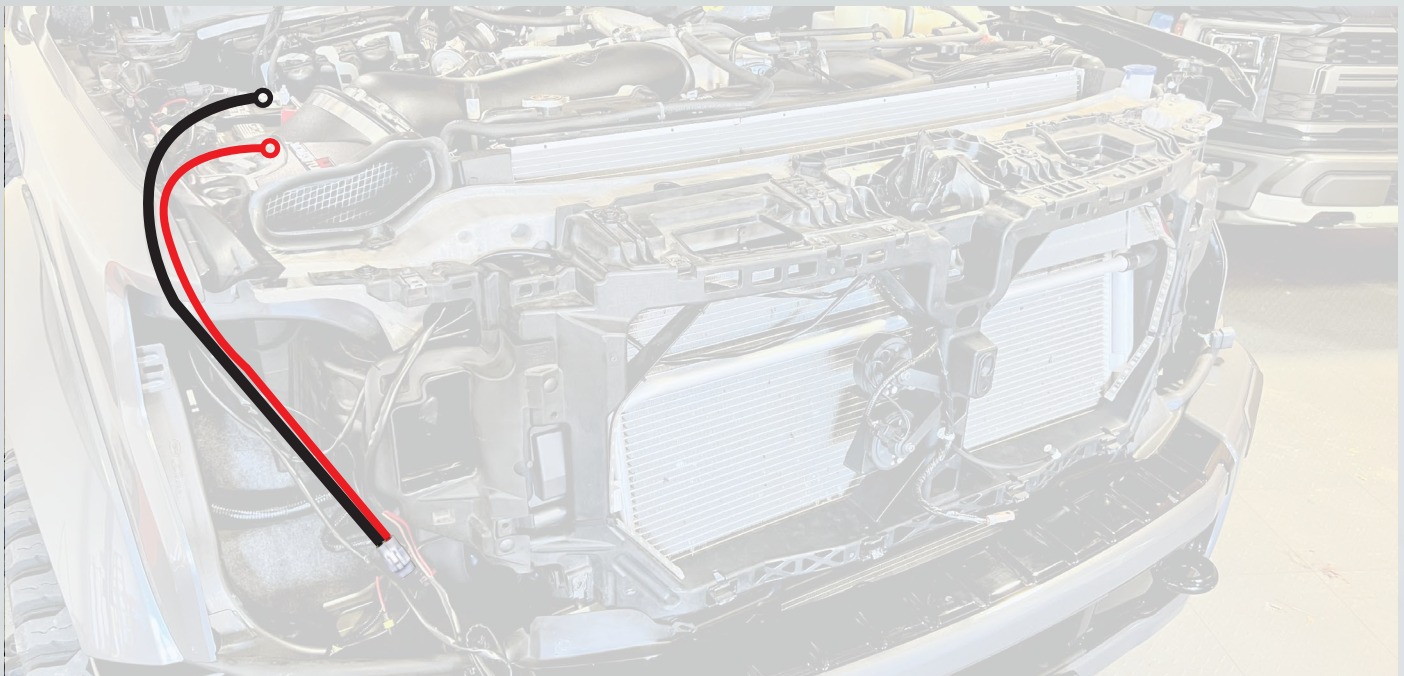
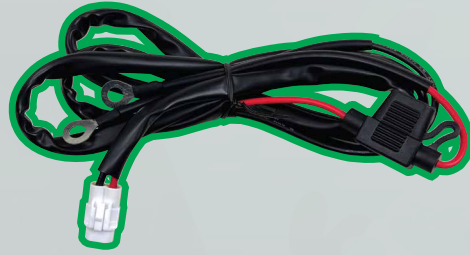


28. Repeat steps #13, 14, 15, 16, and 27 on the other headlight.

29. Locate the fuse box under the hood on the passenger side, by the firewall and remove fuse #16. Find the included fuse tap harness and plug it in place of the fuse you just removed. Route one end of the harness to the passenger side headlight area and the other end to the driver side headlight area.

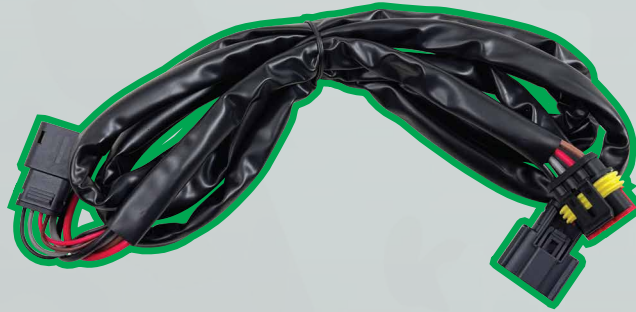


30. -Locate the included Battery Harness, go to the battery and remove the 10mm nut on the positive terminal. Install the positive lead (red wire) onto the stud on the positive terminal, and reinstall the 10mm nut.
-Install the negative lead from the Battery Harness (black wire). Remove the 10mm nut on the negative terminal, install the negative lead (black wire) and reinstall the 10mm nut.
-Run the other end of the Battery Harness to the passenger side headlight opening.

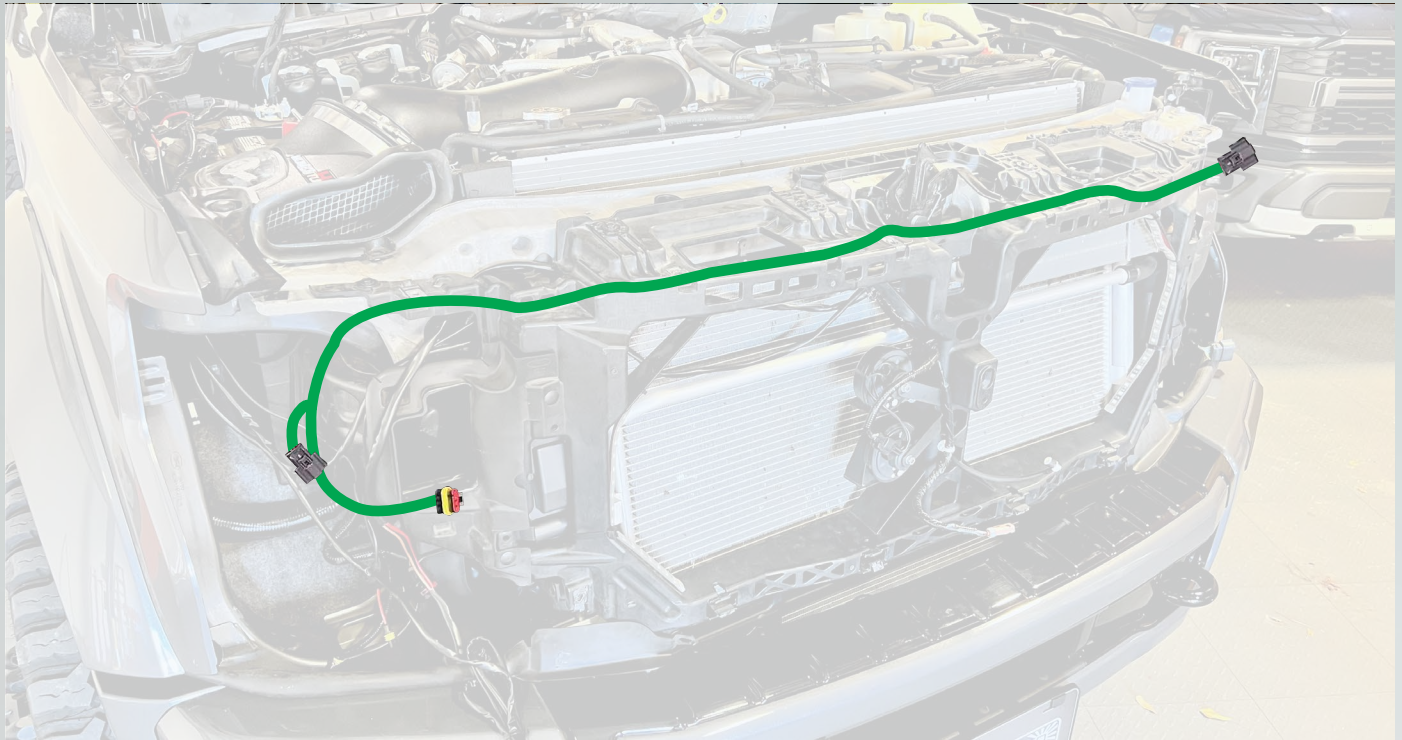


31. Locate the included Crossover Harness.

- Starting on the passenger side of the vehicle, place the end of the harness, that has 2 connectors, in the passenger headlight opening.
- Then route the other side of the harness to the driver side headlight opening.



(HARNESS ROUTING)



32. Get the passenger side included Lin Bus module and take it to the truck. Start by plugging in these two (2) connectors (IMAGE 1). Plug in the Crossover Harness into the Lin Bus module (IMAGE 2).

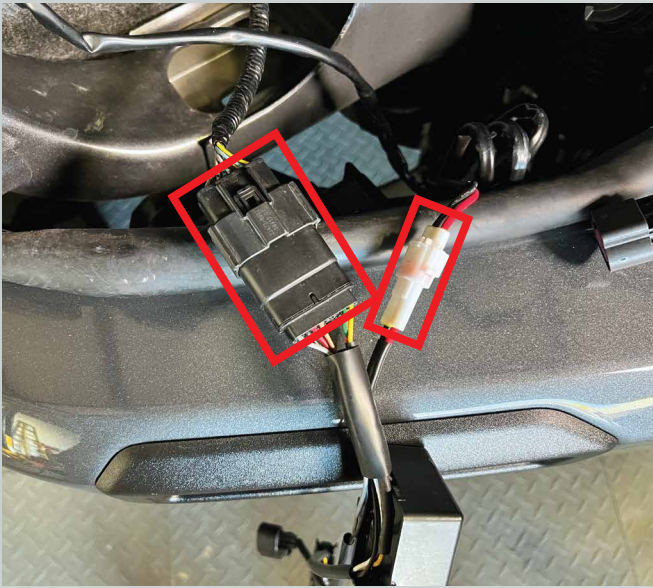


IMAGE 1

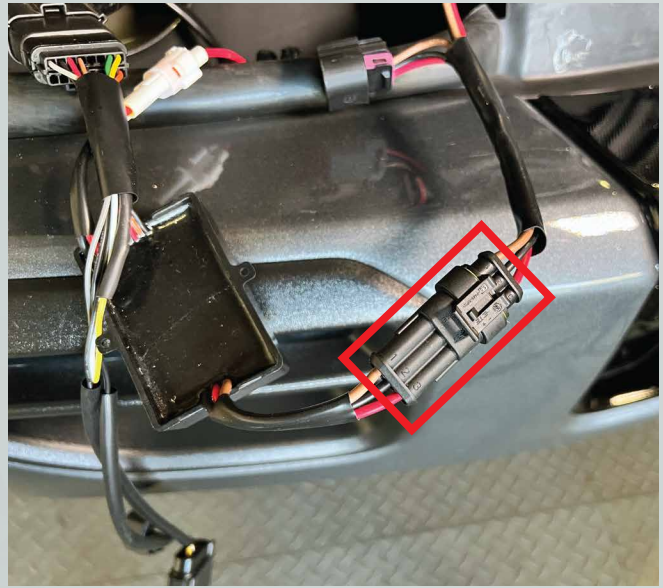


IMAGE 2

33. Grab your passenger side Morimoto headlight, bring it to the truck and plug in these two (2) connectors (IMAGE 3). Next plug in the DRL harness and the Crossover harness to the headlight (IMAGE 4).

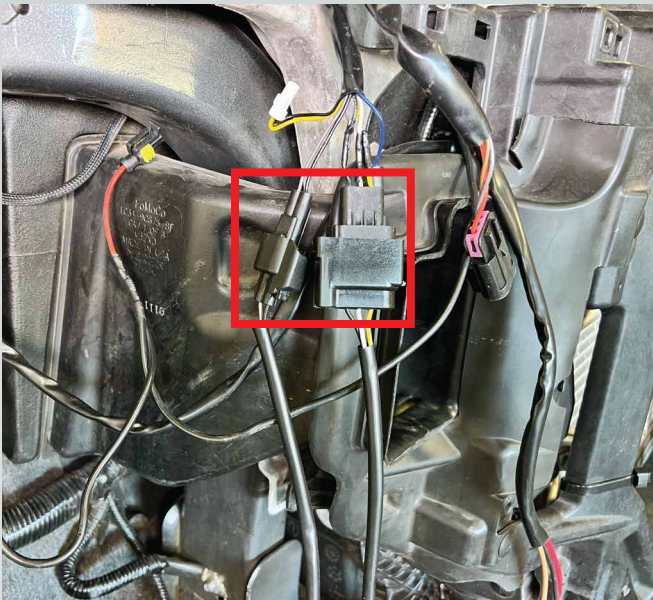


IMAGE 3

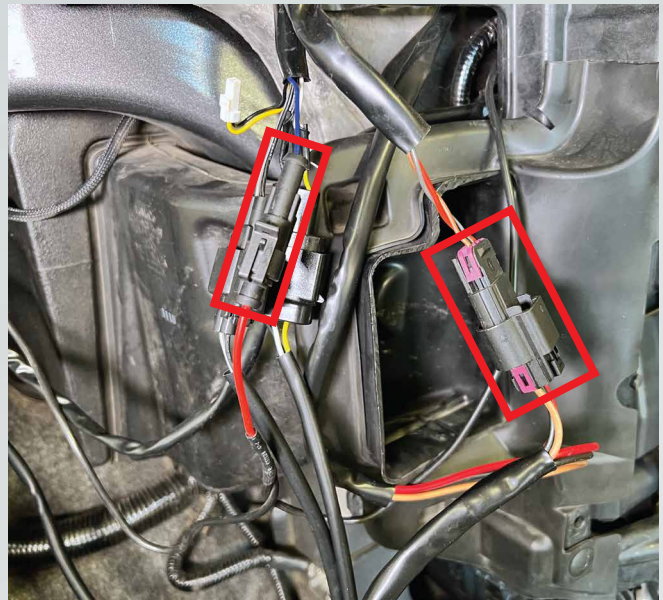


IMAGE 4

34. Slide the headlight into its mounting location making sure none of the wiring in the rear is getting pinched. Thread in the top bolts by hand.

35. Get the driver side included Lin Bus module and take it to the truck. Start by plugging in the multi pin connector (IMAGE 5). Get your driver side Morimoto headlight and plug in these two (2) connectors (IMAGE 6). Plug in the Crossover Harness and DRL harness into the Lin Bus module (IMAGE 7).



IMAGE 5

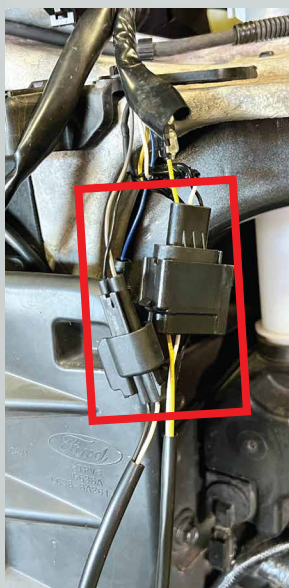


IMAGE 6



IMAGE 7

36. Slide the headlight into its mounting location making sure none of the wiring in the rear is getting pinched. Thread in the top bolts by hand.
37. Turn the truck on and test all of the functions to make sure everything works.
38. Reassemble the truck in the reverse order that you took it apart.

PROCEED TO PAGE 3 FOR AIMING INSTRUCTIONS

ENJOY YOUR NEW MORIMOTO XB HEADLIGHTS!