



THE AUTOMOTIVE LIGHTING BENCHMARK

2018+ F150 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



1X FUSE TAP / DRL HARNESS
(FOR OEM HALOGEN TRUCKS ONLY)



2X EMI FILTER HARNESSES

IMPORTANT: If your vehicle is equipped with anything but OEM turn signals (full assemblies, LED bulbs, or otherwise) in the tail lights or elsewhere: 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.

OEM HALOGEN TRUCKS

PROCEED TO PAGE 2

OEM LED TRUCKS

SKIP TO PAGE 3

CONNECTOR IDENTIFICATION FOR OEM HALOGEN TRUCKS ONLY

HIGH BEAM &
LOW BEAM



PARKING LIGHT
& TURN SIGNAL

SIDEMARKER
LIGHT

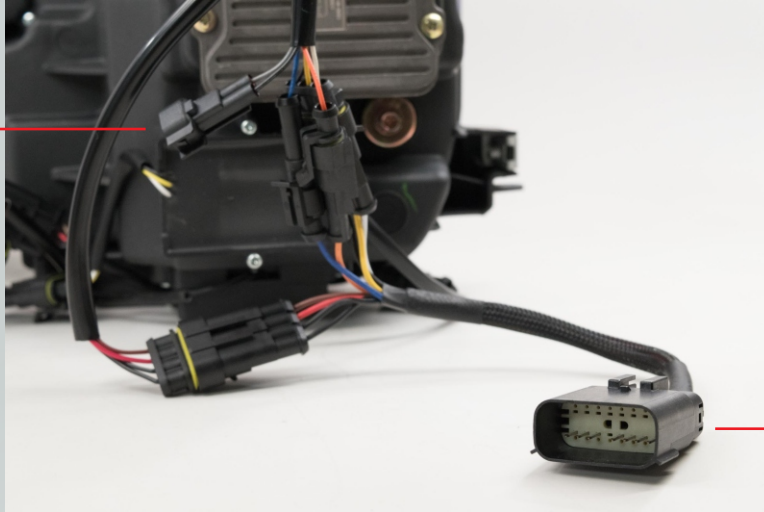
DRL HARNESS
INPUT

NOT USED

SEQUENTIAL
TURN SIGNAL
TOGGLE

CONNECTOR IDENTIFICATION FOR OEM LED TRUCKS ONLY

NOT USED



INPUT

SEQUENTIAL
TURN SIGNAL
TOGGLE



*TIP FOR EASIER AIMING

Before removing stock headlight, park your truck somewhere where you can shine the stock headlight on a wall and mark the top edge of the original beam with a small piece of masking tape. Do not move truck until new lights are aimed and installed.

INSTALLATION PROCESS

1. Remove two 7mm bolts from inside each wheelwell holding the fender flares on.



2. Remove plastic push clip from fender flare above bolts in step #1.



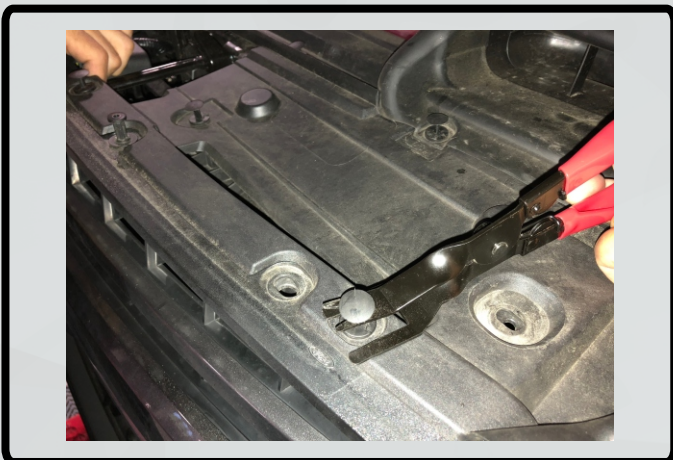
3. Carefully pull fender flare from truck to release push-clips. Clips may need to be removed from body and transferred back to flare for re-installation



4. After removing bolts / clips from wheel well, pull the lower grille trim forward and remove from truck.



5. Remove all clips holding top plastic shroud of radiator and remove shroud.



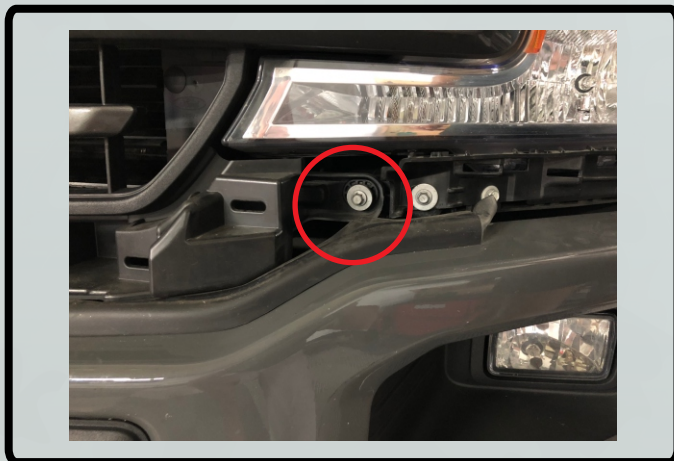
6. Unplug two connections for active grille at the center of the radiator area.*



7. Remove four 10mm bolts from top of grille.



8. Remove 8mm bolt from below each headlight. Remove grille assembly.



9. Remove bolts for headlights - Each has 6x 10mm, 1x 8mm, and 1x push clip on top. One 10mm bolt is behind fender flare as shown in third picture below. At the bottom right, squeeze the clip with a pair of needlenose pliers to release the bracket from the truck.



10. Remove push clips and 5.5mm bolts from within wheel wells.



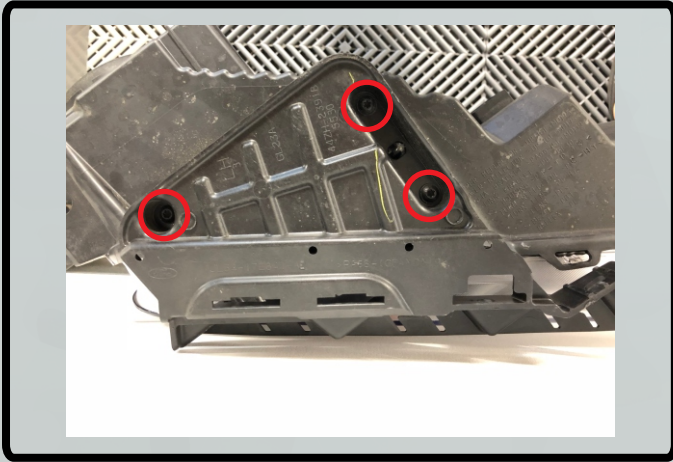
11. Carefully remove headlights by sliding forward.



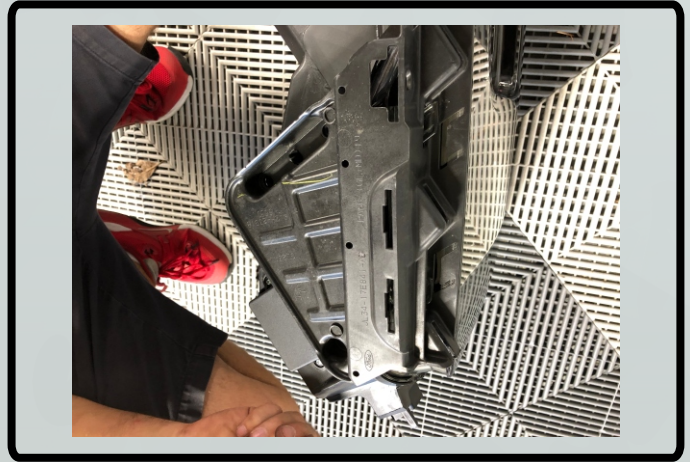
12. Unplug each wiring connection at the back of each headlight housing.



13. Under headlight, remove brackets. 3x T25 torx screws retain them.



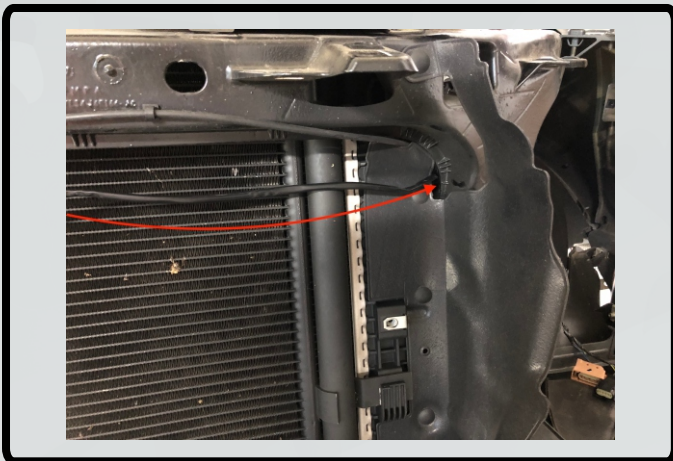
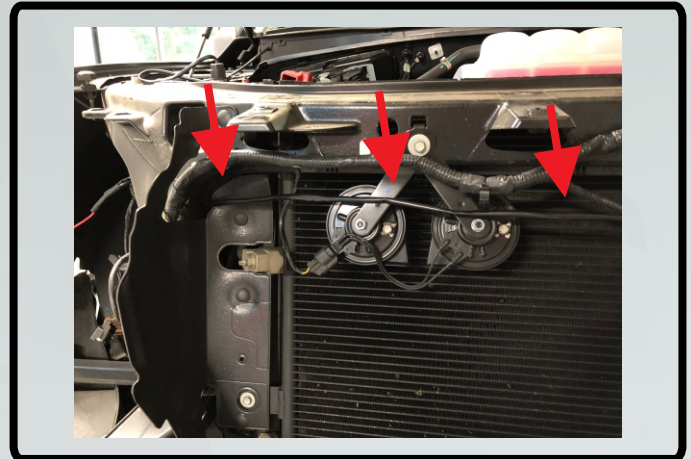
14. Reinstall bracket on the bottom of the new headlight, thread each bolt into the light before fully tightening down.



15A. OEM HALOGEN TRUCKS ONLY: Route DRL "Y-Harness" to each headlight.



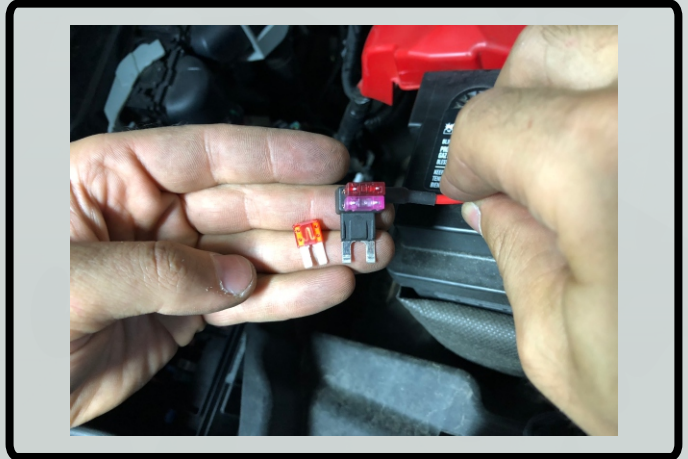
15B. OEM HALOGEN TRUCKS ONLY: DRL harness routes across front of radiator as shown. (zip ties recommended)



16. OEM HALOGEN TRUCKS ONLY: Run wire harness for the drl to the fuse box. Remove fuse 36 as indicated (10A red fuse). NOTE: Some trucks keep fuse #36 hot for 30+ minutes once the truck is turned off. Use fuse position 35 or 37 instead if this is the case.



17. OEM HALOGEN TRUCKS ONLY: Replace that 10A use with fuse-tap from DRL harness, ensuring a new fuse in each of the two positions on the fuse-tap.

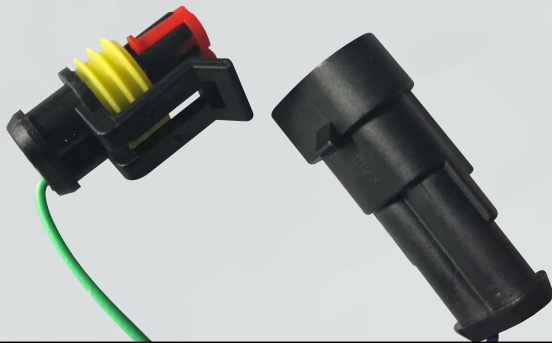


18. Connect stock headlight connectors to the Morimoto headlights. Refer to page 2 or 3 for identification.



19. Configure the turn signal wiring to your preference:

SEQUENTIAL TURN SIGNAL OPERATION



STANDARD (BLINKING) TURN SIGNAL OPERATION



20. Test all functions of lights before bolting them on to the truck. We recommend leaving the lights on for five minutes with the truck's engine running. Certain functions require the capacitors to have a charge which naturally takes a short amount of time.

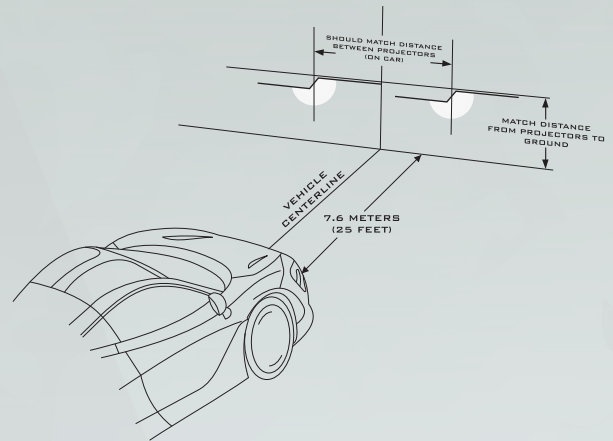
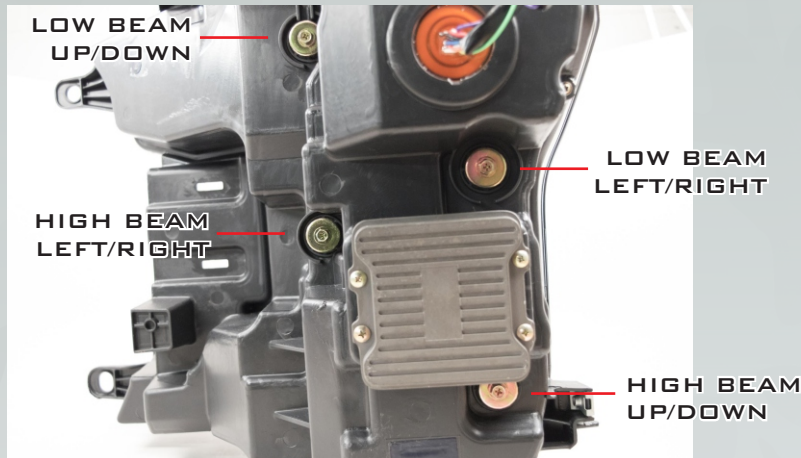
NOTE: If you have EMI / Radio Interference, refer to page 10 prior to proceeding further.

Normal operation is as follows:

- Parking lights: dim DRL outline and amber sidemarker turned on
- Daytime Running Light: full intensity on white (or amber) outline
- Low Beam: dim DRL outline, amber sidemarker, and top two projectors turned on
- High Beam: dim DRL outline, amber sidemarker, and all four projectors turned on
- Auto Function: functions as normal

If any functions do not work, we recommend contacting your Morimoto dealer for troubleshooting.

21. Aiming: In the diagram below, there are independent adjusters for the aim of the low and high beams. Please refer to the aiming standards below and be sure to adjust both the low and high beam prior to completely re-assembling the truck. (High beam adjuster is not easily accessible when light is mounted)



22. If everything works as expected, proceed to re-install lights and cover pieces.

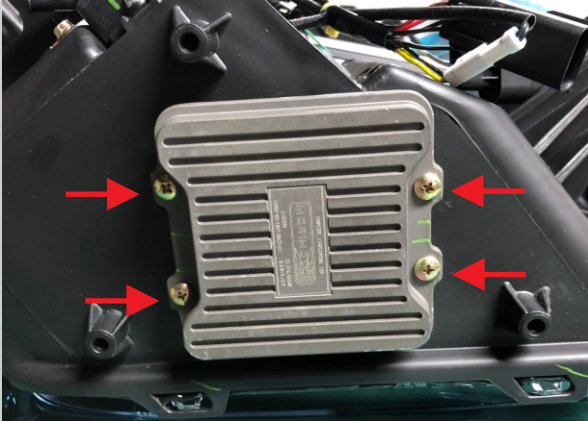
Re-assembly / Installation is reverse of removal.

When fitting the passenger (right) headlight, note the following:

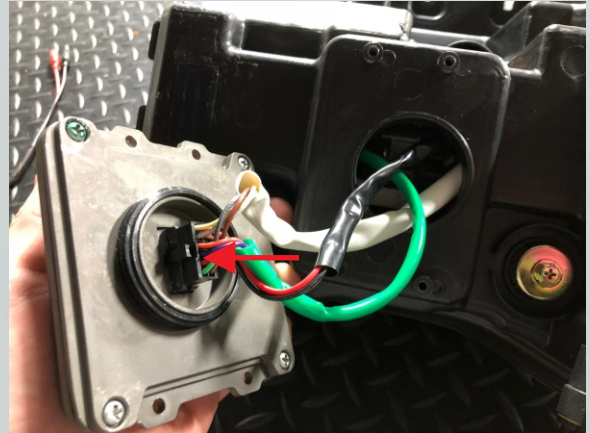
- 1) The factory gap at the fender is larger on the passenger side than the driver side. The tail lights also have larger gaps on the passenger side than the driver side.
- 2) Make sure the wiring is tucked out of the way before fitting the housing to the truck permanently. We recommend pushing the wiring toward the grille to maximize clearance for the housing.
- 3) Instinct when fitting the housings is to push toward the engine while tightening the bolts for the light. To minimize the gap at the fender, instead push the housing outward toward the fender then tighten.

EMI: If the truck experiences EMI / Radio Interference with the new headlights, complete the following steps with the provided harnesses.

A. Remove the four head screws securing the driver.



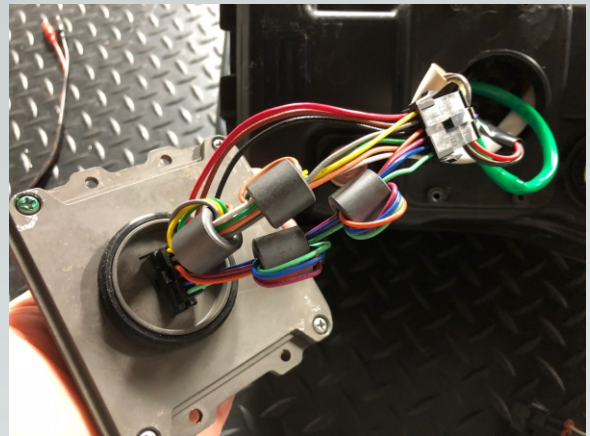
B. Un-clip the driver's connection.



Driver unplugged.



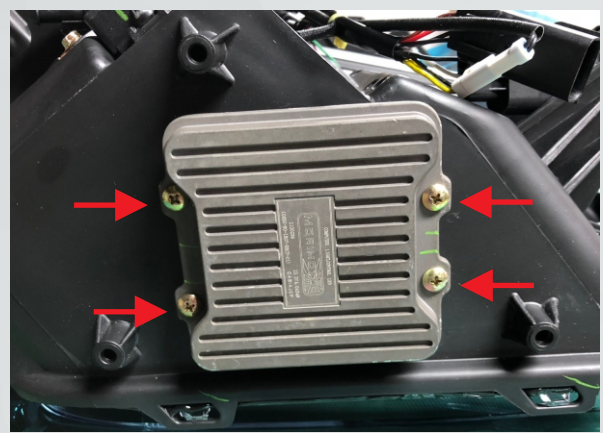
C. Securely clip in the harness on both ends.



D. Tuck wiring inside the headlight cavity.



E. Snug up the four head screws securing the driver. Be mindful when re-seating the rubber gasket.



-END-