



Installation Guide

24+ Ford Raptor Headlights



This installation guide provides a detailed, step-by-step process for installing your new Alpharex Headlights for a 24+ Ford Raptor.

DO NOT USE DIELECTRIC GREASE / REMOVE ANY DEBRIS OR ANY PRE-EXISTING GREASE OR WEATHER SEALANT

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Tools needed:

Clip Remover
7mm Socket
10mm Socket
Ratchet + Extension



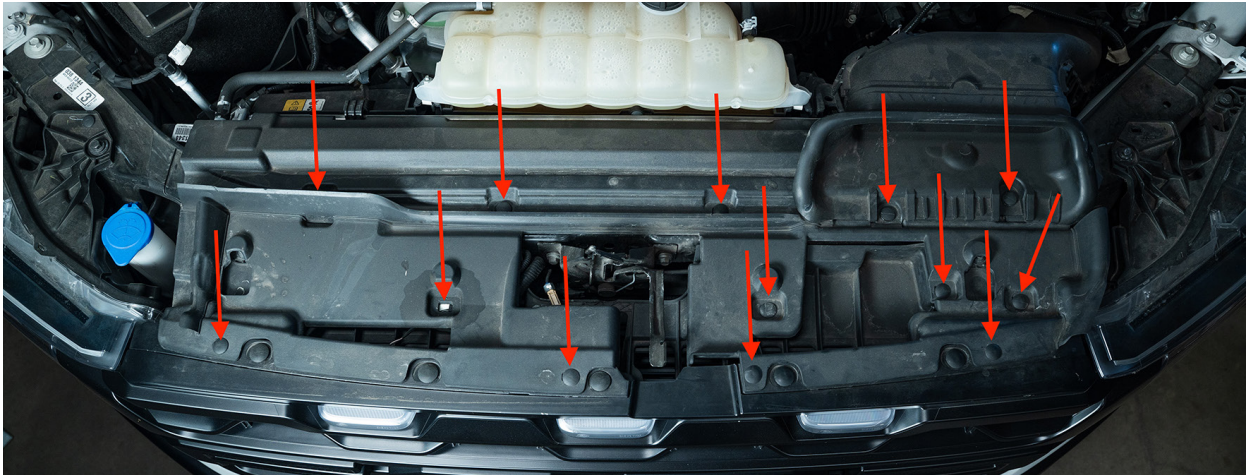
Installation time: 2 - 3 hours



Difficulty Level: 2.5/5

Step 1 : Uninstall OEM Headlights

- To begin removing your OEM headlights, open the hood and locate the plastic shroud. Using a panel clip removal tool, carefully remove the thirteen (13) retaining clips securing the shroud in place. Once all clips have been removed, carefully lift and remove the shroud.



- Next, move to the front fenders, which will need to be partially removed to continue the headlight removal process. Begin by locating and removing the two (2) 7mm bolts securing each fender in place.



Step 1 : Uninstall OEM Headlights

- With the bolts removed, carefully pull the fender outward just enough to access and disconnect the side marker connector. Once disconnected, gently pull the fender farther outward to provide additional clearance for the headlight removal process.

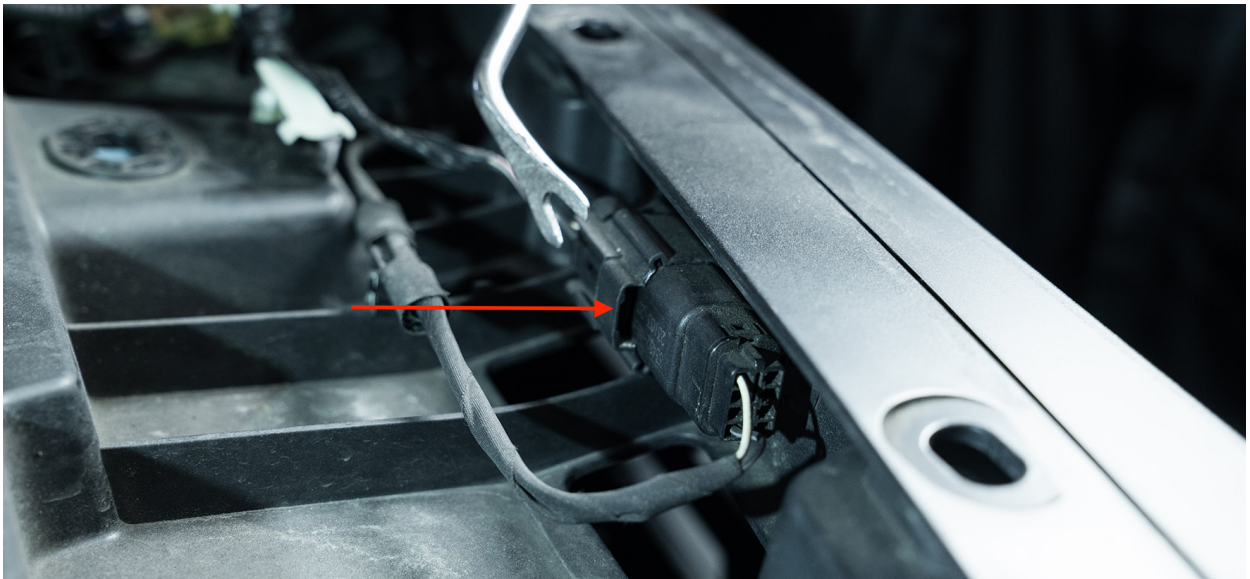


- Next, proceed with removing the front bumper valence panel. Starting at either end near the fenders, carefully pull outward with steady, even pressure to release the retaining clips securing the panel in place. Continue working your way across the bumper, releasing each clip until the valence panel is completely detached and can be safely removed.

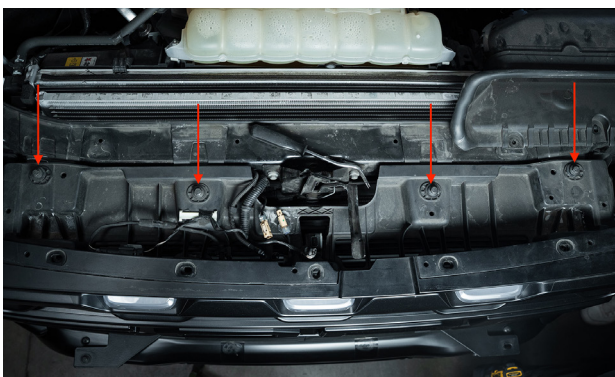


Step 1 : Uninstall OEM Headlights

- Next, locate and carefully disconnect the four (4) electrical connectors attached to the front grille.

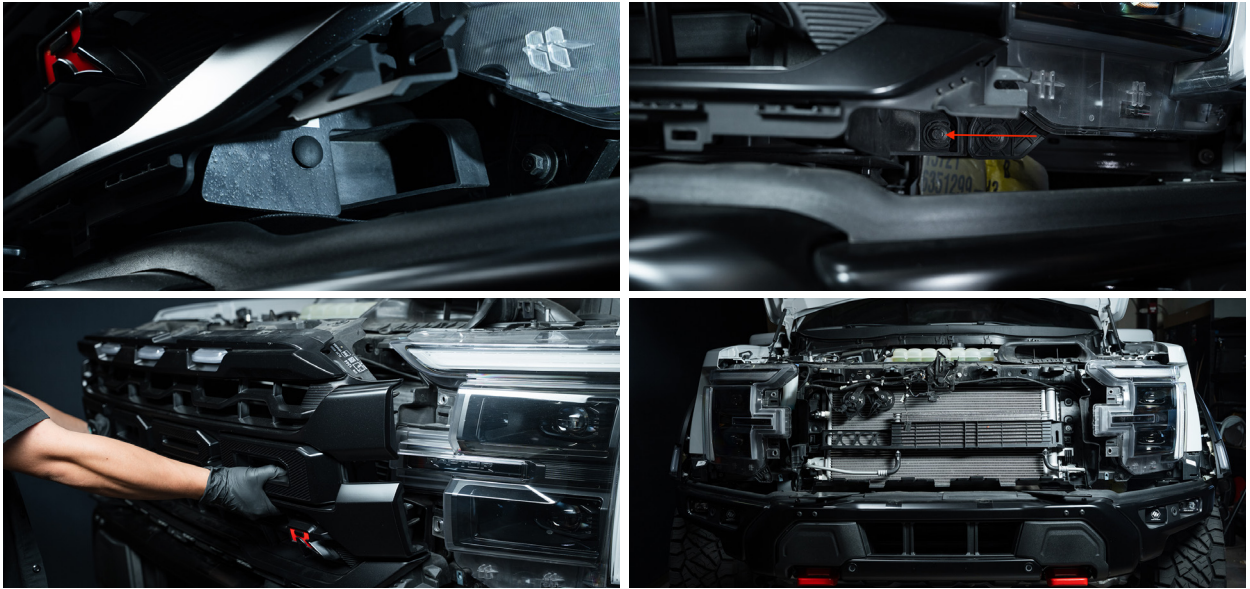


- Next, locate and remove the four (4) 10mm bolts securing the upper portion of the front grille in place.

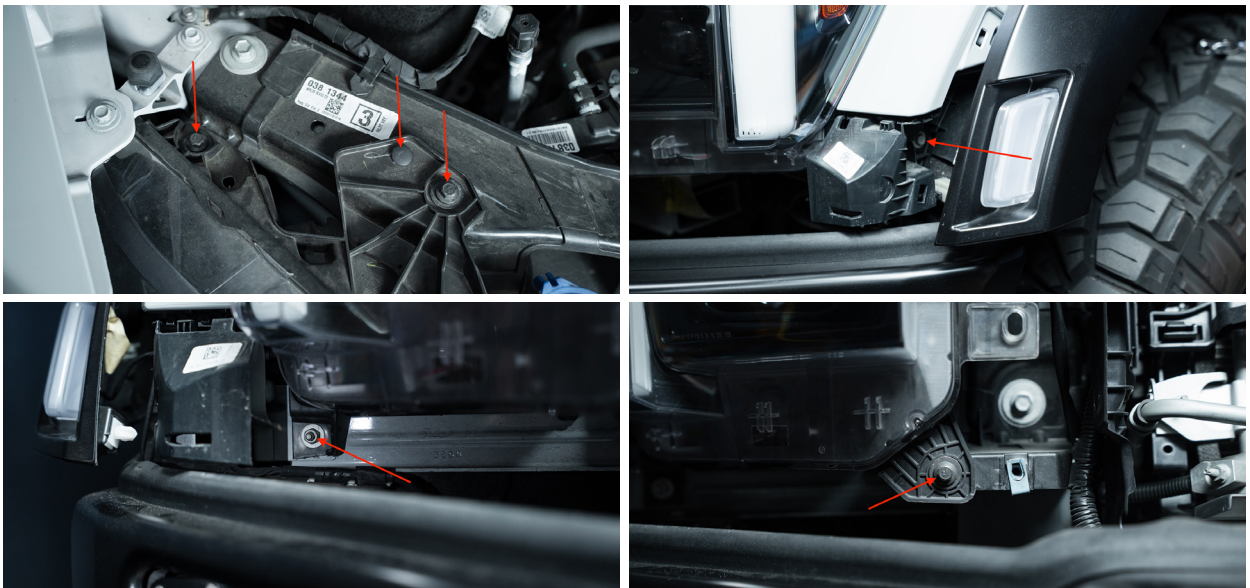


Step 1 : Uninstall OEM Headlights

- Lastly, locate and remove the two (2) 10mm bolts and two (2) retaining clips (one on each side) securing the lower portion of the grille. Once all fasteners have been removed, carefully detach and remove the front grille from the vehicle.

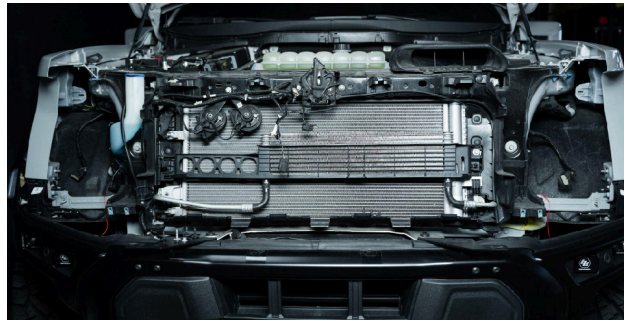
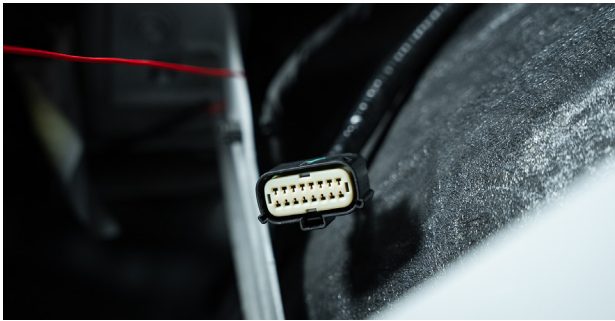


- Next, proceed with removing the OEM headlights. Each headlight is secured by five (5) 10mm bolts and one (1) retaining clip. Locate and carefully remove all fasteners securing each headlight in place.



Step 2: Install Alpharex Headlights

- With all fasteners removed, carefully pull the headlight assembly outward to access the vehicle connector on the back. Disconnect the single main connector, then fully remove the headlight from the vehicle. Repeat this process on the opposite side to complete the removal of your OEM headlights.



Install Alpharex Headlights

With the OEM headlights removed, you can now proceed with installing your new Alpharex headlights.

- Before installation, there are two optional features to consider. The optional DRL harness enables the startup sequence when locking the vehicle (Start up sequence will still happen when unlocking the vehicle with no harness installed) and provides increased DRL brightness. Additionally, you can choose between white or amber DRLs, with the headlights preconfigured for white DRLs from the factory. **Both options should be selected and configured before installing the new headlights.**

How to get Amber DRL

- If you prefer amber DRLs on your new Alpharex headlights, follow the steps below to change the DRL color from white to amber before proceeding with the installation.

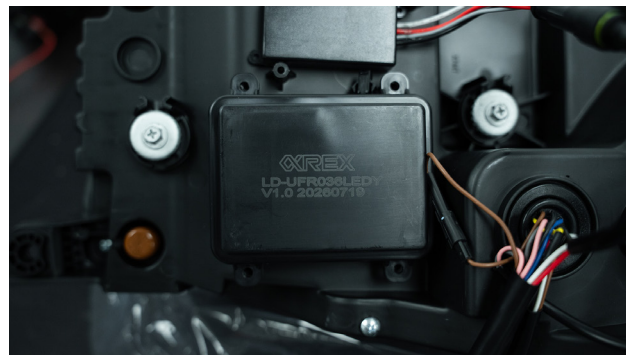


Step 2: Install Alpharex Headlights

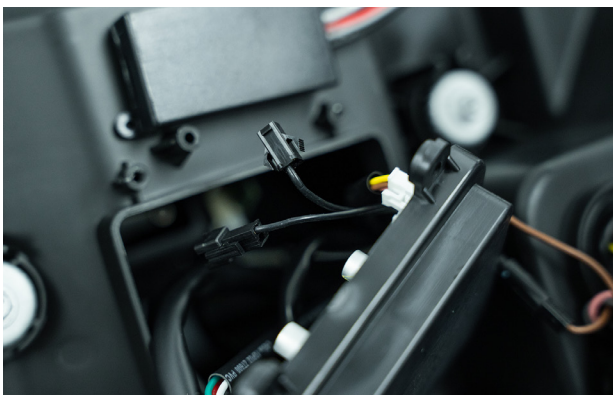
- Begin by placing your new Alpharex headlights face down on a clean, soft surface, ensuring the rear of the headlight assembly is facing upward for easy access.



- Next, locate the control board on the back of the headlight assembly and carefully remove the four (4) screws securing it in place.

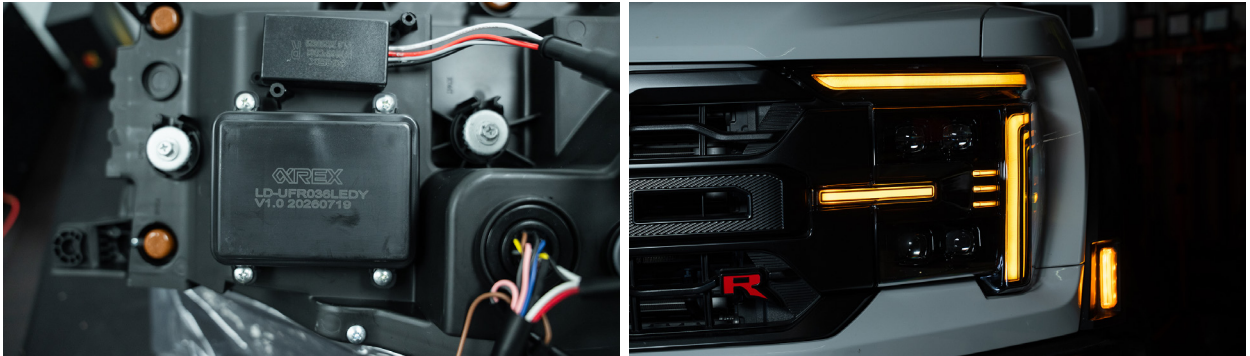


- Carefully pull the control board outward to access the wiring behind it. Locate the two (2) disconnected single-pin black connectors and connect them together to switch the DRL color from white to amber.



Step 2: Install Alpharex Headlights

- With the connectors securely connected, carefully tuck the wiring back into the headlight housing. Reposition the control board, ensuring it is properly seated and sealed, then reinstall the four (4) screws to secure it in place.



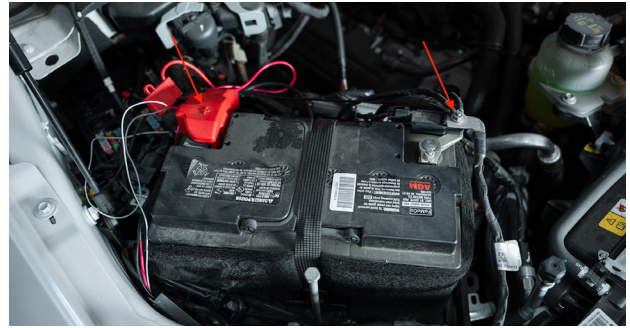
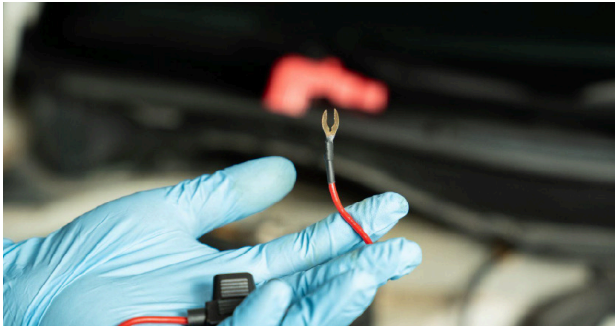
How to install the DRL harness

- As previously mentioned, the DRL harness is optional for this vehicle. If you choose to install it, follow the steps below to properly connect the harness before proceeding with the headlight installation.
- To begin the installation, locate your DRL harness and carefully unravel it, ensuring all wires and connectors are fully extended and ready for installation.

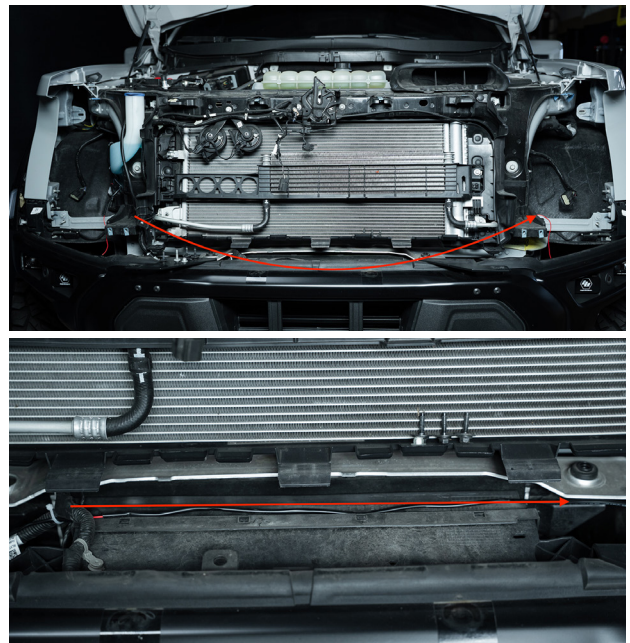
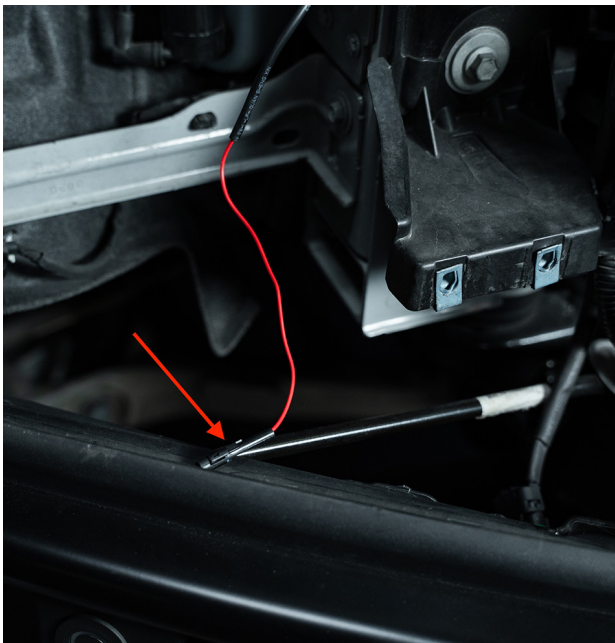


Step 2: Install Alpharex Headlights

- Next, locate the red and black wires on the DRL harness with the ring terminals at each end. Connect the red wire to the positive (+) battery terminal and the black wire to the negative (-) battery terminal, ensuring both connections are properly secured.



- Next, locate the two (2) red wires on the DRL harness with black connectors at the ends. The shorter wire will remain on the passenger side, while the longer wire will need to be routed across the vehicle to the driver side.
- When routing the longer red wire to the driver side, ensure it is kept away from extreme heat sources, moving components, and any areas where the wire could become pinched or damaged. Secure the wiring as needed to maintain a safe and clean installation.



Step 2: Install Alpharex Headlights

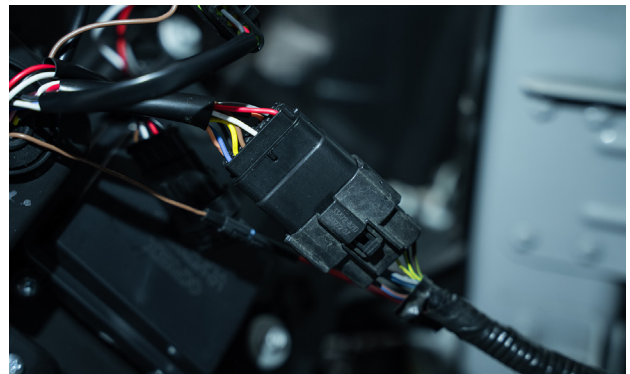
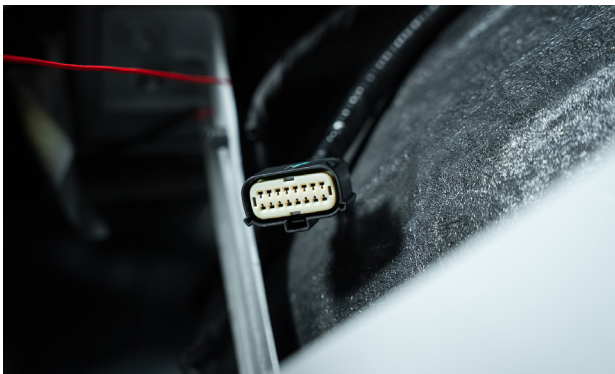
- With the DRL harness wiring properly routed, proceed with installing the fuse tap. Locate the fuse box on the upper passenger side of the engine bay and remove the cover. Next, locate fuse position #17 and carefully remove the existing fuse. Insert the removed fuse into the designated second slot of the fuse tap, then install the fuse tap into position #17, ensuring it is fully seated and securely connected.



- Now that we have all the wiring routed in the vehicle we can continue with the headlight installation.

Headlight install continued:

- You can now proceed with installing your new Alpharex headlights. Begin by locating the main electrical connector on the vehicle and connecting it to the corresponding connector on the back of the new headlight assembly. If you have chosen not to install the optional DRL harness, simply ensure the main connector is securely connected before proceeding with the installation.



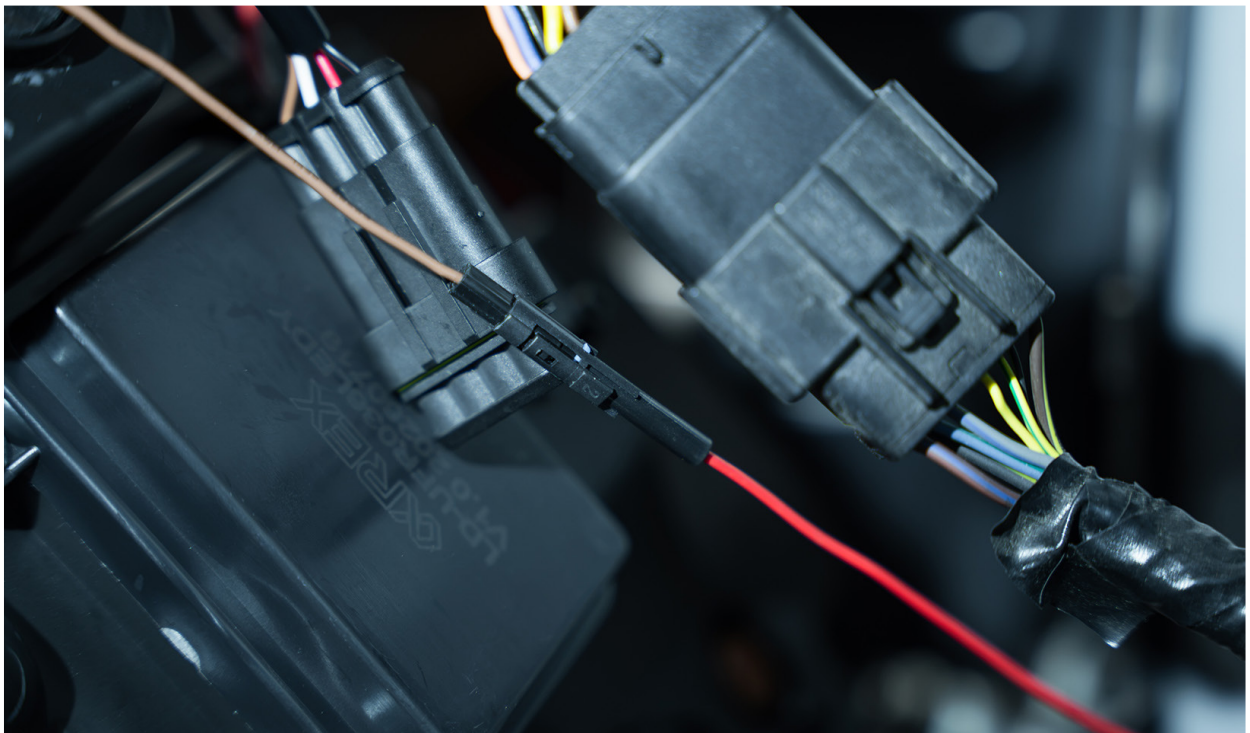
Step 2: Install Alpharex Headlights

- Continue w/ DRL harness:

If you are installing the optional DRL harness, locate the two (2) red wires connected together on the back of the headlight assembly and disconnect them.

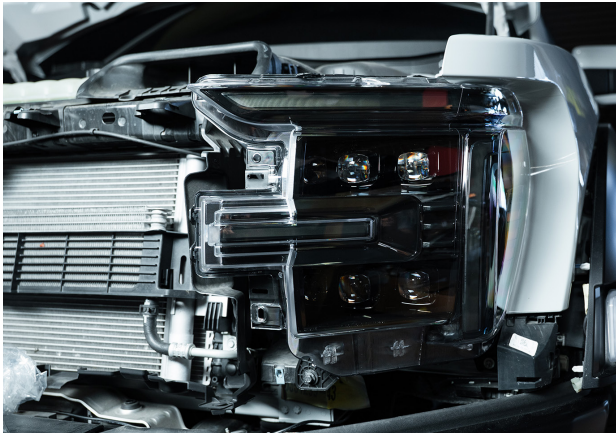


Next, connect the male connector from the DRL harness to the female connector on the headlight to complete the DRL harness circuit. The remaining male connector on the back of the headlight will remain disconnected and does not require any additional connections.



Step 2: Install Alpharex Headlights

- With all wiring properly connected, carefully position and fully seat the new Alpharex headlight assembly into place. At this point test all functions and make sure everything is working properly once confirmed, secure the headlight using the original mounting hardware, then proceed with reassembling the vehicle in the reverse order of removal. Ensure all previously removed components, fasteners, clips, and electrical connectors are properly reinstalled and secured.



Step 2: Install Alpharex Headlights

- With all components properly reinstalled and secured, test all headlight functions to ensure everything is operating correctly. Once verified, you have successfully completed the installation of your new Alpharex headlights!

