



Installation Guide

23+ Ford Super Duty headlights



This installation guide provides a detailed, step-by-step process for installing your new Alpharex Headlights on a 23+ Ford Super Duty.

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

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Tools needed:

10mm socket
13mm ratchet
Flat head screw driver



Installation time: 2-3 hours



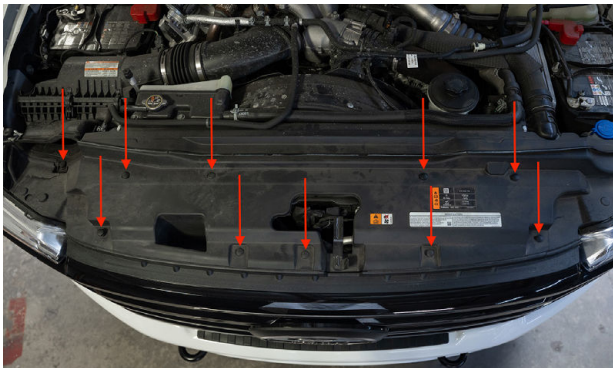
Difficulty Level: 3/5

Step 1: Remove the OEM Headlights

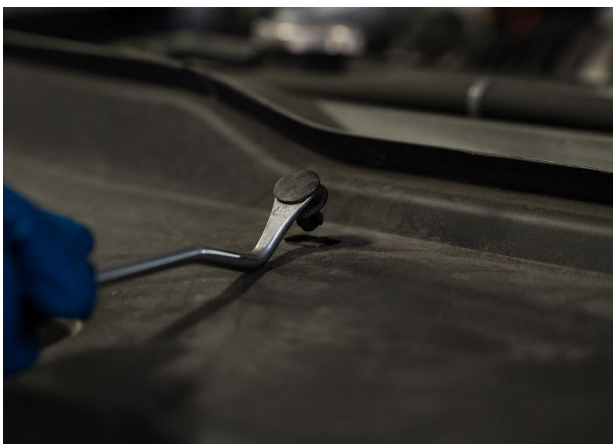
- To begin removing the OEM headlights, open the hood and locate the radiator shroud cover.



- Once you've located the radiator shroud cover, remove it by releasing the twelve (12) retaining clips shown below.

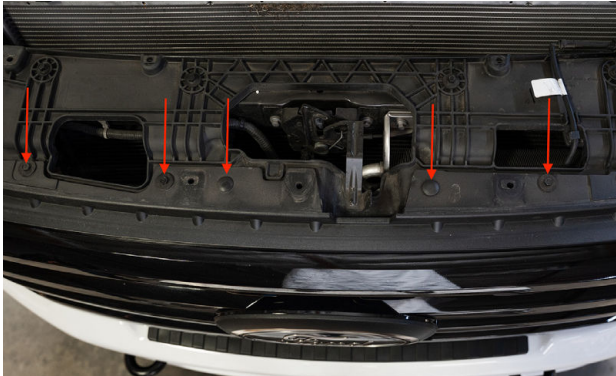


- With all twelve (12) retaining clips removed, carefully lift and remove the radiator shroud cover.



Step 1: Remove the OEM Headlights

- With the radiator shroud removed, you will have access to four (4) 10 mm bolts and two (2) retaining clips securing the grille. Remove all six fasteners to continue.



- Next, move to the front grille and locate the two plastic access covers. Using a flathead screwdriver, carefully pry each cover open to expose the two (2) 10 mm fasteners beneath them. Remove both fasteners to continue.

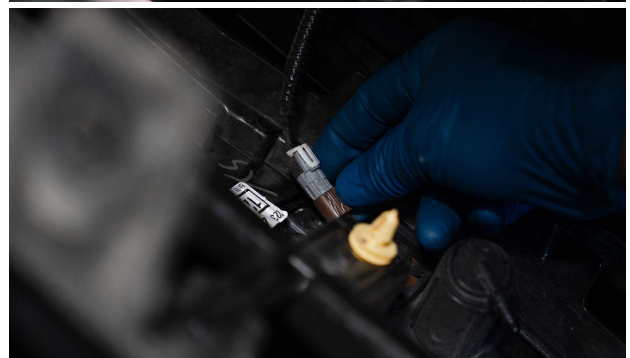


Step 1: Remove the OEM Headlights

- With all of the grille fasteners removed, you can now remove the grille from the vehicle. Starting at either headlight, use a firm grip to grasp the edge of the grille and pull it straight outward to release the retaining clips. The grille is held in place only by clips, so be sure to pull straight out to avoid damaging or breaking them.



- Once both sides of the grille have been released, carefully pull the grille forward. Before removing it completely, disconnect the front camera connector and detach the washer fluid hose to fully free the grille from the vehicle.

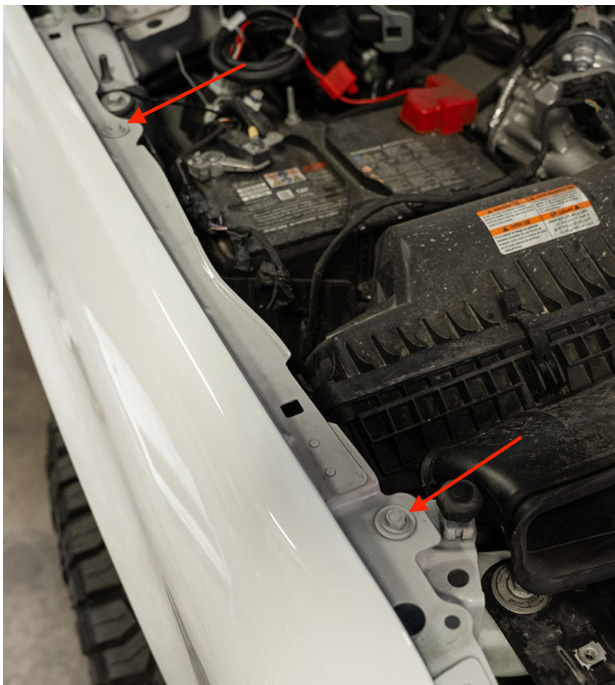


Step 1: Remove the OEM Headlights

- With the front camera connector and washer fluid hose disconnected, you can now fully remove the grille from the vehicle.



- With the grille removed, you can now begin removing the headlights. To provide additional clearance, first loosen the front fenders. Remove the first 10 mm bolt completely, then loosen the second 10 mm bolt approximately halfway. This will allow the fender to flex slightly, making it easier to remove the headlights in the following steps.



Step 1: Remove the OEM Headlights

- With the additional clearance created, you can now begin removing the headlight. Start by removing the two (2) 10 mm bolts located along the top of the headlight assembly.



- The third and final mounting bolt is slightly more difficult to access. Using a 13 mm wrench, reach behind the bumper and loosen the bolt from the side of the headlight assembly. Once loosened, remove the bolt completely.



Step 1: Remove the OEM Headlights

- With all three (3) mounting bolts removed, you can now remove the headlight assembly. Begin by releasing the retaining tabs along the top of the headlight where the mounting bolts were previously located. Once the tabs have been released, carefully pull the headlight assembly straight back to disengage it from the vehicle.

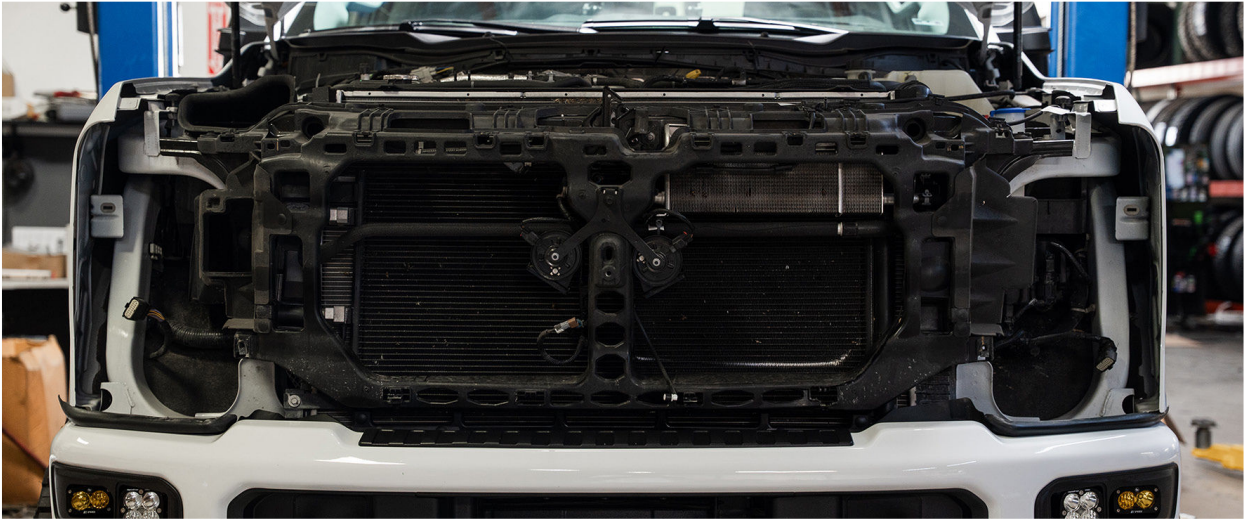


- At this point, you should have enough clearance to reach behind the headlight assembly and disconnect the single factory connector from the vehicle. Once the connector has been released, the headlight can be fully removed.



Step 2: Install Alpharex headlights

- With the OEM headlight fully removed, you are now ready to begin installing your new Alpharex headlights.



Step 2: Install Alpharex headlights

Disclaimer: Installation of the included DRL harness is required for this vehicle. Do not discard the supplied DRL harness, as it is necessary for proper headlight operation.

DRL Harness install:

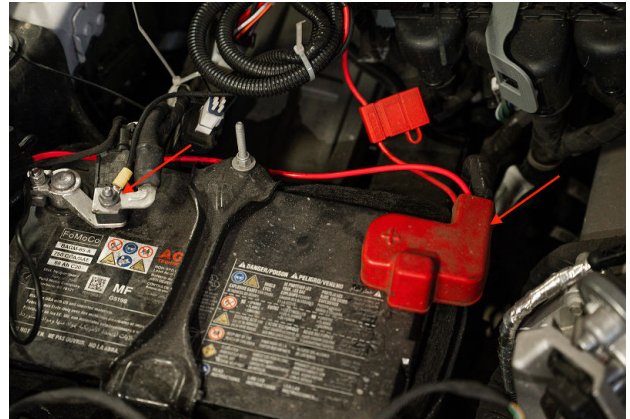
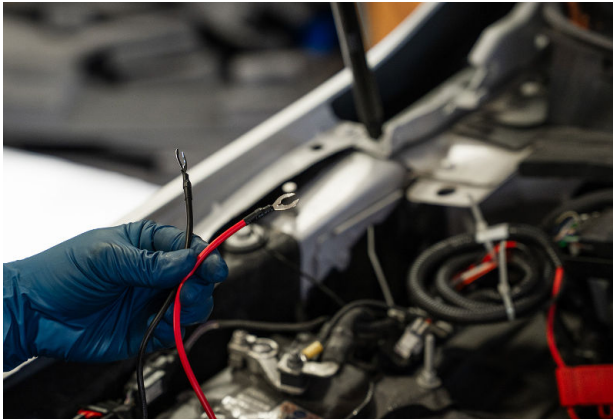
To begin installing your new AlphaRex headlights, start by installing the included DRL harness.

- Begin by locating your DRL harness that will be in the driver side (left) headlight box.



Step 2: Install Alpharex headlights

- Begin by unwrapping the DRL harness and locating the red and black wires with the ring terminals. These will be the first connections you make. Connect the red wire to the positive (+) battery terminal and the black wire to the negative (-) battery terminal.

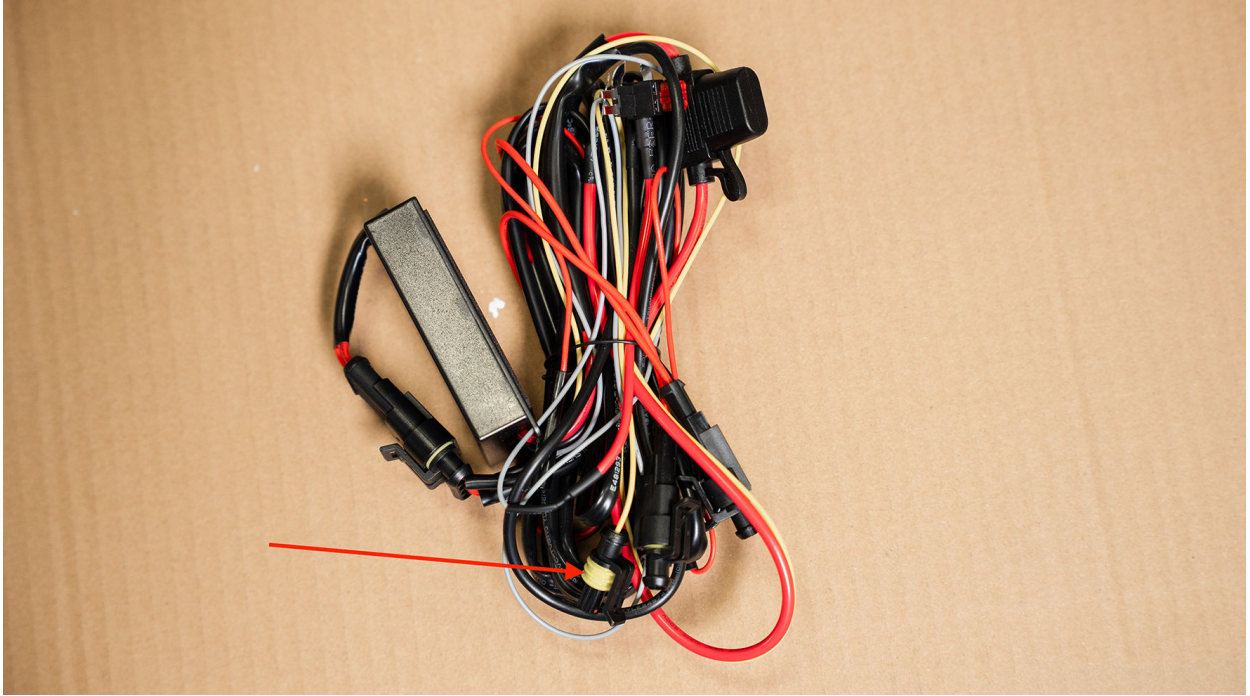


- Next, locate the two red wires with the plastic connectors at the ends. These connectors will plug into the back of each headlight. The shorter lead is for the passenger side, while the longer lead is for the driver side.
- Route the longer driver-side lead across the front of the vehicle, securing it away from any moving components, sharp edges, or high-heat sources.

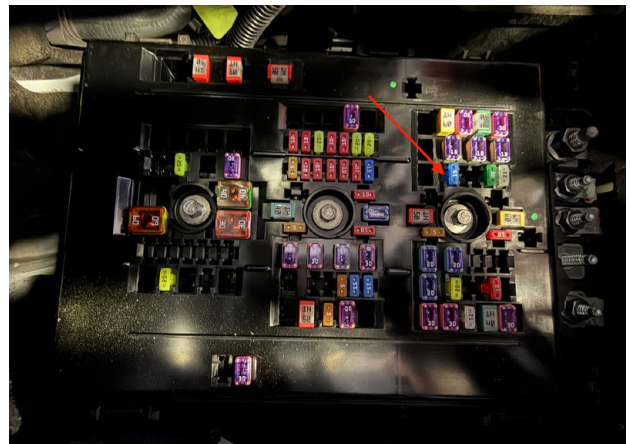
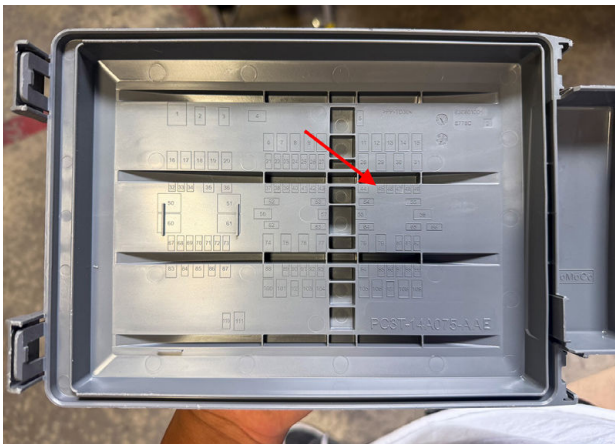


- The remaining connector is a single-pin plug with a yellow grommet. This connector is used only on the passenger-side headlight, so leave it routed to the passenger side for now.

Step 2: Install Alpharex headlights



- With the DRL harness routed, you can now install the fuse tap. Route the fuse tap to the vehicle's fuse box and remove the fuse box cover. Locate fuse #45 and remove it from the fuse panel. Install the factory fuse into the lower (second) slot of the supplied fuse tap, then insert the fuse tap into the original #45 fuse location.



- The remaining harness connections will be completed later in the installation process.

Step 2: Install Alpharex headlights

- Before installing your new AlphaRex headlights, we recommend choosing your preferred DRL color. The headlights can be configured with either an amber or white DRL, but this selection must be made before the headlights are installed on the vehicle. Follow the steps below to configure your desired DRL color.

Note: If you plan to use the default white DRL, no changes are required and you may skip this step.

- Locate your new AlphaRex headlight and place it upside down on a clean, soft surface with the control board facing upward. Remove the four (4) Phillips screws securing the control board cover, then lift the cover off to access the DRL color selection connectors.



Step 2: Install Alpharex headlights

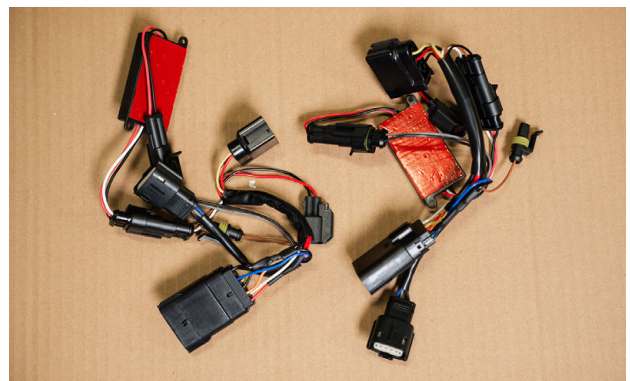
- With the control board cover removed, locate the two black connectors inside the housing. Connect these two connectors together to switch the DRL color from the default white to amber.



- Once the connectors are joined, your headlights are now configured for **amber DRLs**. Reinstall the control board cover and secure it with the four (4) Phillips screws removed earlier. Your headlights are now ready to be installed on the vehicle.

Continue install:

You are now ready to install your new Alpharex headlights. Begin by locating the included headlight adapter harness provided in the kit.

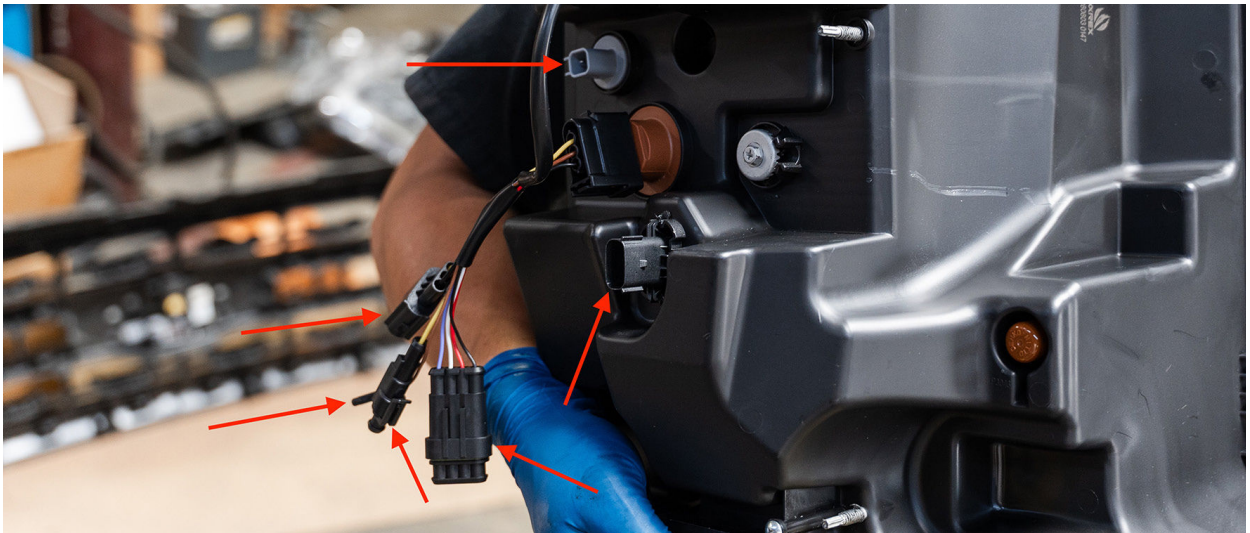


Step 2: Install Alpharex headlights

- Begin by connecting the included adapter harness to the vehicle's factory headlight connector. Ensure the connector is fully seated before proceeding.

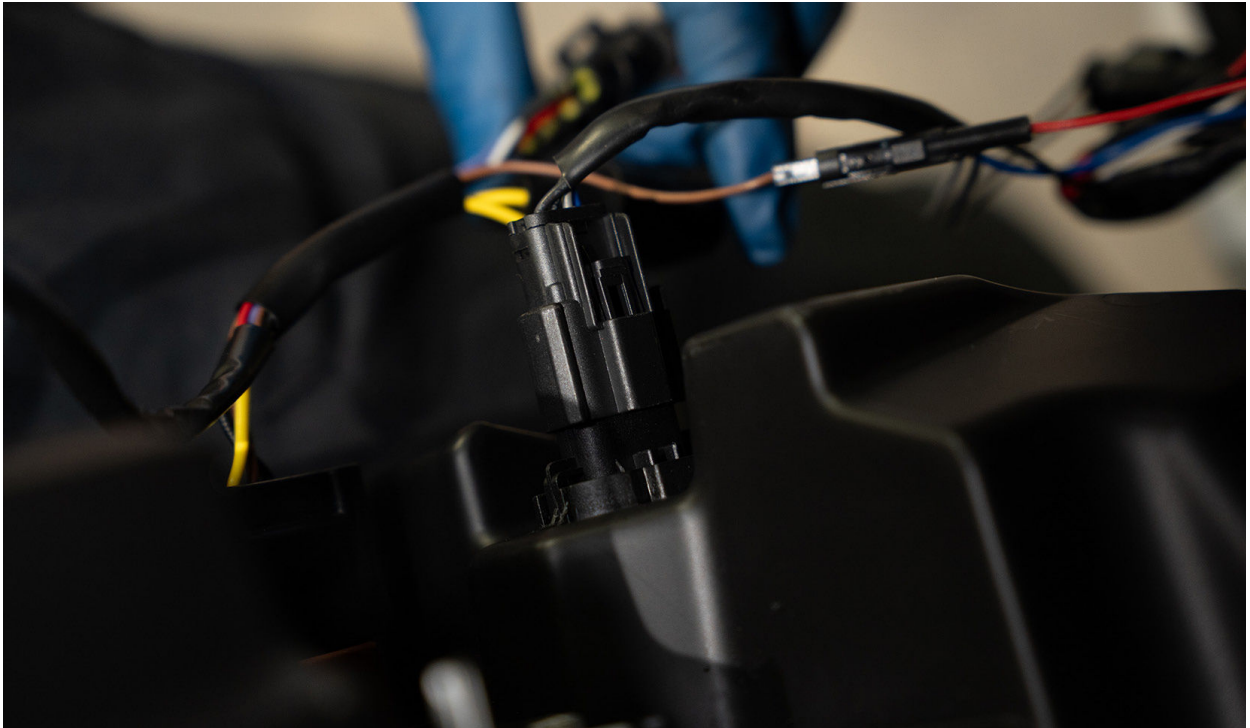


- You are now ready to install the AlphaRex headlight. Before securing the headlight into place, connect all required electrical connectors. The **passenger-side** headlight requires a total of six (6) connections, while the **driver-side** headlight requires a total of five (5) connections. Ensure each connector is fully seated.
- The difference in connector count is due to the **passenger-side** headlight utilizing the additional connection from the DRL harness installed earlier.



Step 2: Install Alpharex headlights

- All connections are completely plug-and-play. Each connector on the back of the headlight is uniquely keyed, so simply match each vehicle connector to its corresponding plug on the headlight until all connections are securely made.



- At this point, you will complete the installation of the DRL harness by connecting the remaining DRL harness connector to the corresponding connector on the back of the headlight.



Step 2: Install Alpharex headlights

- Once all connections have been made, test the headlight to verify that all functions are operating correctly. Confirm that the low beams, high beams, turn signals, DRLs, and any additional lighting features function as intended before securing the headlight and reassembling the vehicle.



- Once all lighting functions have been confirmed to operate correctly, you can begin reassembling the vehicle. Secure the headlight into place and reinstall all previously removed components in the reverse order of removal.



Step 2: Install Alpharex headlights

- With all components reinstalled, your installation is now complete! Perform one final function check to ensure all lighting features are operating properly, then close the hood and enjoy your new Alpharex headlights.



Headlight Adjustment:

To properly adjust your AlphaRex headlights, the headlight assemblies must be installed on the vehicle. All adjustment screws remain accessible after installation. The upper adjuster can be reached from the top of the headlight, while the remaining adjusters can be accessed by carefully pulling the fender flare outward and reaching behind the headlight. Refer to the diagram below for the location and function of each adjustment screw.

Step 2: Install Alpharex headlights

