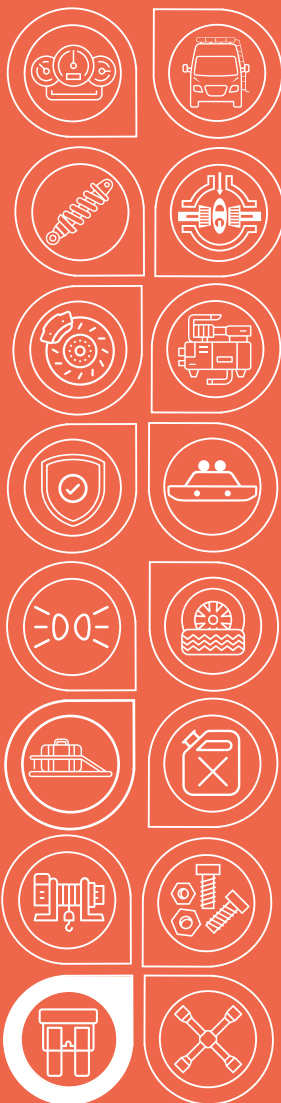




**AGILE  
OFFROAD**  
SMARTER THAN DIRT



## Installation Guide

LP9/LP6 FRONT WIRING HARNESS  
FOR SPRINTER  
AOWH-LP9

## INSTALLATION GUIDE

### PLUG-READY HARNESS FOR LP6 & LP9 LIGHTING

LP9/LP6 FRONT WIRING HARNESS FOR SPRINTER



This front wiring harness is purpose-built for **Baja Designs LP6 and LP9 lights**, offering a clean, plug-ready installation on Sprinter vans. Available for **2019+ (VS30)** or **2018- (NCV3)** switch configurations, with an optional **back-light switch connector** for added functionality.

#### SKU

AOWH-0002

AOWH-0003

#### PARTS INCLUDED

1 x AOWH-0002 Cab Harness

1 x AOWH-0003 Engine Compartment Harness

1 x ON-OFF-ON Mercedes Switch  
(NCV3 or VS30)

1 x AOWH-0008 Fog Lamp Backlight Trigger Adapter  
(Sold Separately)

#### TOOLS NEEDED

T25 Torx Bit

T30 Torx Bit

E12 Socket

10mm Socket/Wrench

13mm Socket /Wrench

Flush Cut Pliers

#### INSTALLATION TIME

3-4 Hours

#### **WARNING:**

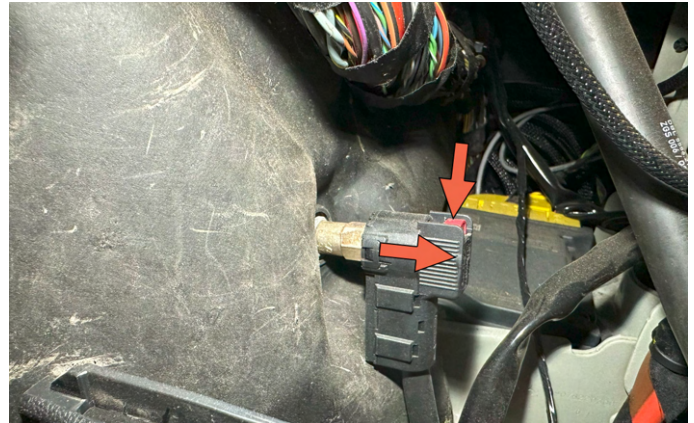
Working on a vehicle's electrical system requires caution due to the risk of electrical shock, fire, and potential damage to the vehicle's electronics. Disconnect the battery before working on any electrical components.

## INSTALLATION GUIDE



### **AOWH-0002 CAB HARNESS**

**1.** Make sure the van is off and then wait 20 minutes before disconnecting the battery. Remove the cover located right of the accelerator pedal by pulling out and up on the top of the cover.



**2.** Press and hold the red button of the chasis ground cable plug while pulling out on plug. Completely remove plug from firewall pin.

**Note:** If the van is equipped with an auxiliary battery in the engine compartment or in the seat base, disconnect all batteries.



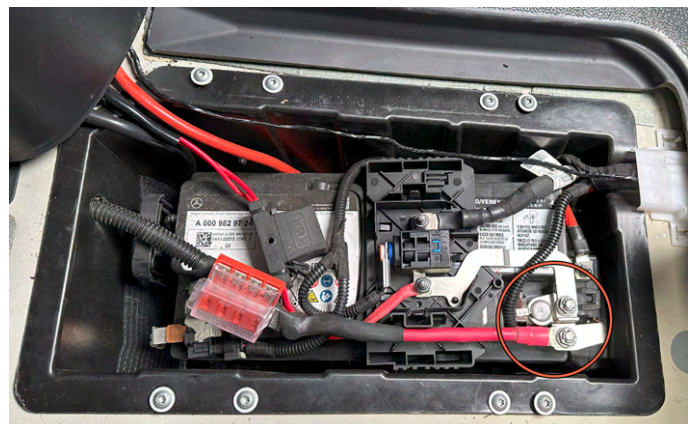
**3.** Use a T25 Torx bit to remove the two floor pad trim screws.



**4.** Remove the floor mat and then use a T30 Torx bit to remove the four battery cover screws. Completely remove battery cover.



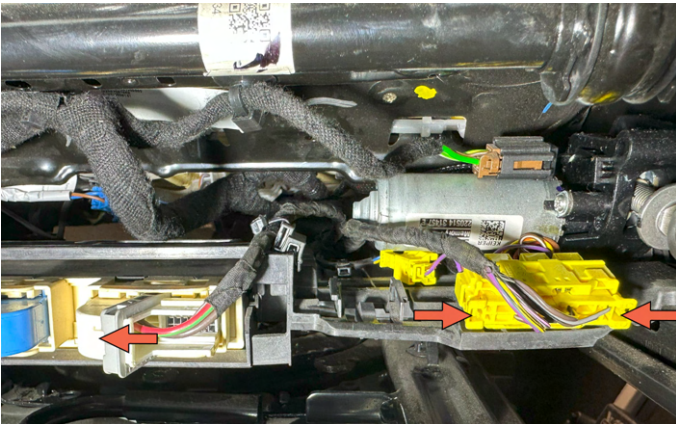
**5.** Remove the red positive battery post cover. Take a picture and document where any existing power cables are connected.



**6.** Use a 10mm and a 13mm socket to completely disconnect the positive battery post cables.



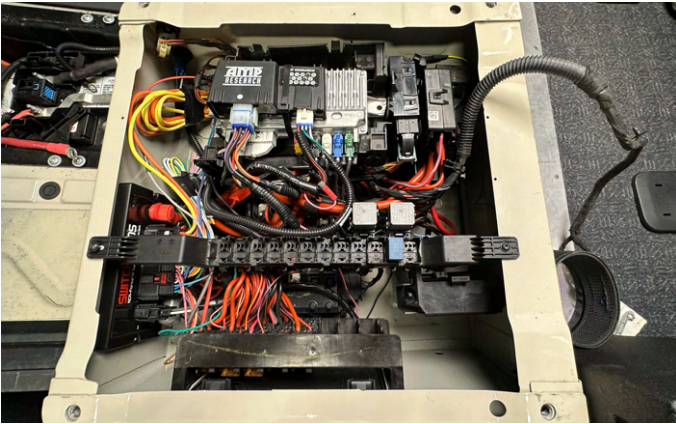
## INSTALLATION GUIDE



**7.** Unplug the power and sensor connectors located under the seat. To disconnect the yellow connector, press the two outer tabs in while pulling out on the connector. To disconnect the white connector, push on the tab and swing the grey arm to unlock connector. **Note:** To avoid an airbag warning light, the ignition **MUST** remain off while seat is disconnected.



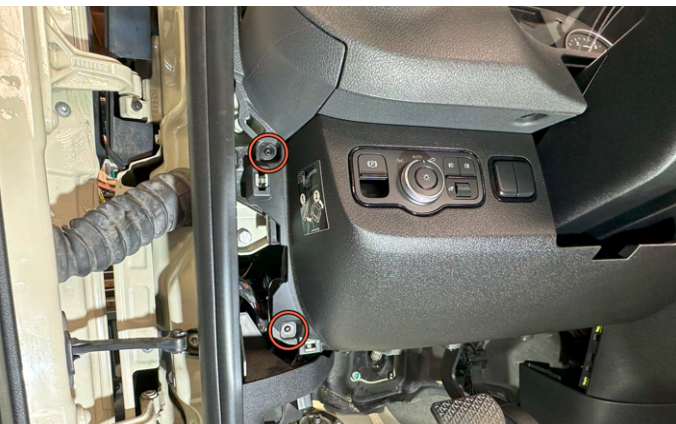
**8.** Use an E12 socket to remove the four seat mounting bolts. Before attempting to remove the seat, carefully unrout the previously disconnected electrical harness from the base of the seat.



**9.** Completely remove the seat. **Note:** The seat is heavy and should be removed with the help of a friend.



**10.** Remove the panel left of the headlight switch by pulling out from the bottom of panel.



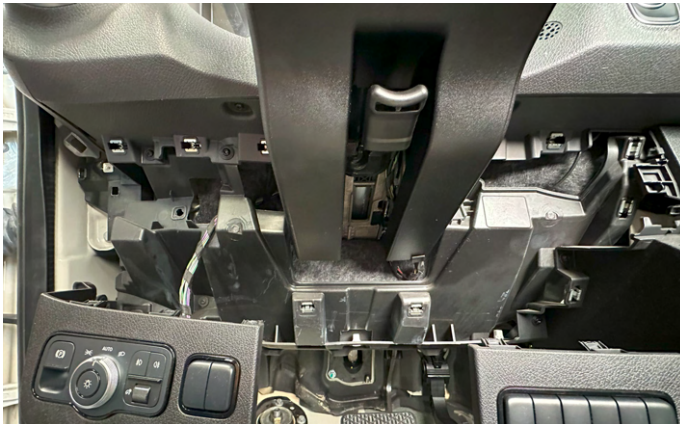
**11.** Use a T20 Torx bit to remove the two headlight switch panel screws located at the right side of panel.



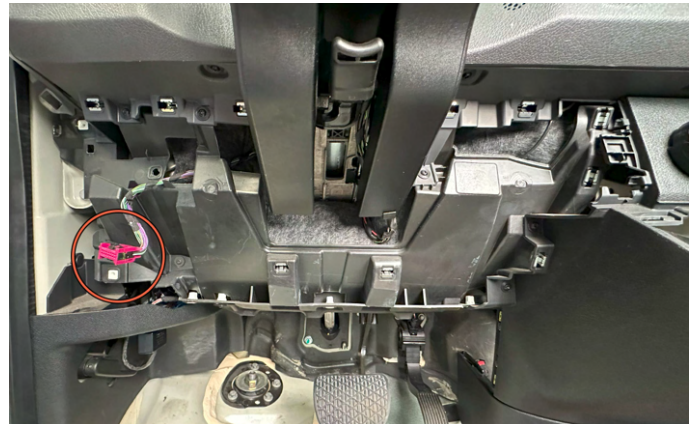
**12.** Use a T20 Torx bit to remove the three headlight switch panel screws located at the bottom of panel.



## INSTALLATION GUIDE



**13.** Remove the headlight switch panel by pulling out on bottom of panel.



**14.** Disconnect headlight switch connector and completely remove panel.



**15.** Remove the center cup holder tray by pulling up on tray.



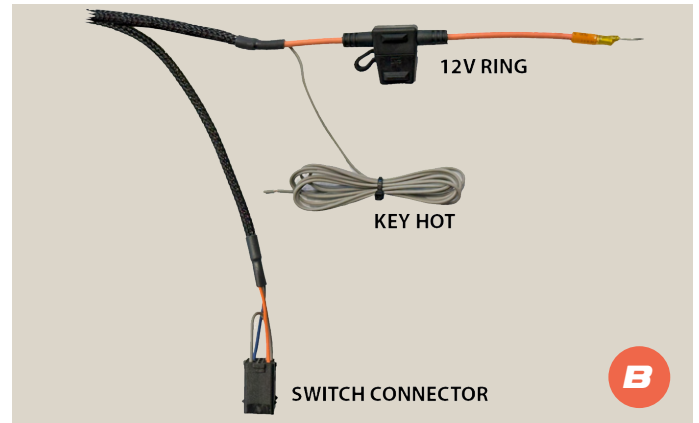
**16.** Carefully set the cup holder tray in front of center panel.



**17.** At the engine compartment, remove the zip tie from the driver side dust boot. Remove the insulation foam from the inside of dust boot.



## INSTALLATION GUIDE



**18 A/B.** The AOWH-0002 cab harness has four ends: the grey Deutsch connector, 12-volt ring, grey key hot, and the switch connector.



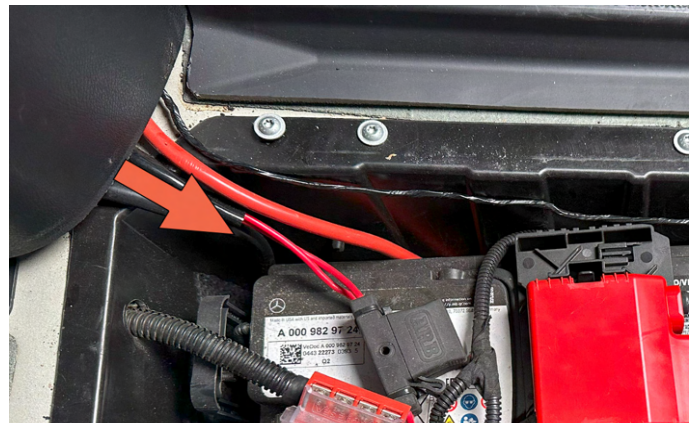
**19.** Route the grey Deutsch connector approximately three inches past the dust boot into the engine compartment. Re-install the insulation foam. Use zip ties to attach the AO harness to the factory harness as shown.



**20.** At the engine compartment, use a zip tie to re-seal the dust boot.



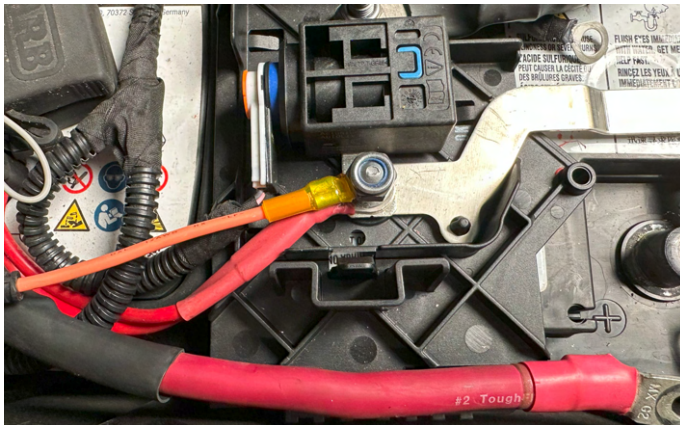
**21.** Continue to zip tie the AO harness to the factory harness working towards the battery box.



**22.** Route the Grey Key Hot and the 12-volt Ring to the engine start battery following the factory harness.



## INSTALLATION GUIDE



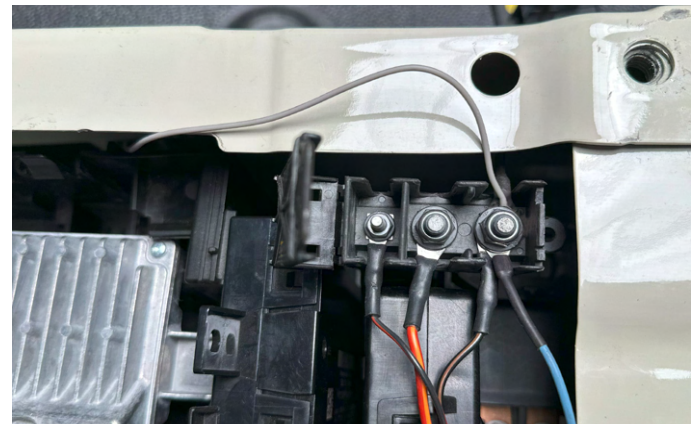
**23.** Attach the 12-volt Ring to the 8mm stud found on the positive battery terminal assembly.



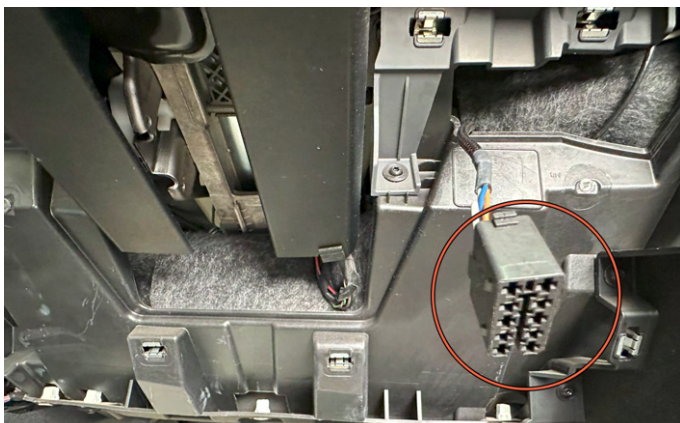
**24.** Continue to route the Grey Key Hot wire from the battery box to the seat base.



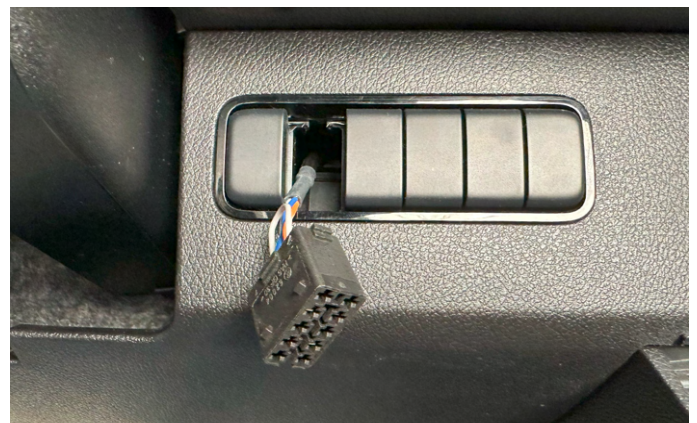
**25.** Follow the factory wire cavity under the protective plastic and into the seat base.



**26.** Trim and splice the grey wire to size and add a 1/4" terminal ring (not included). Attach the Grey Key Hot wire to the Key Hot EK1 terminal as shown.



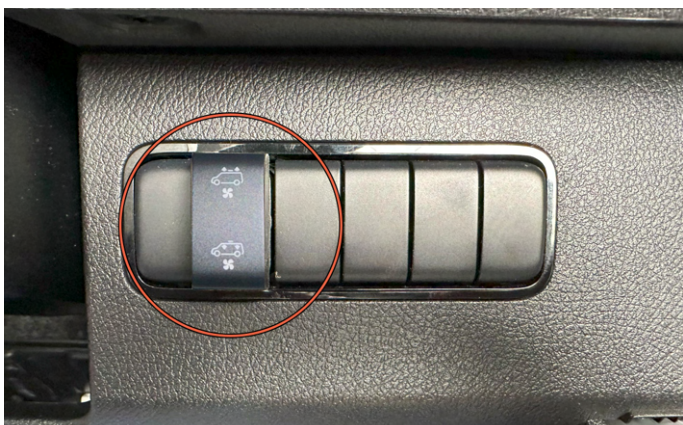
**27.** Route the Switch Connector to the factory dash panel switch location.



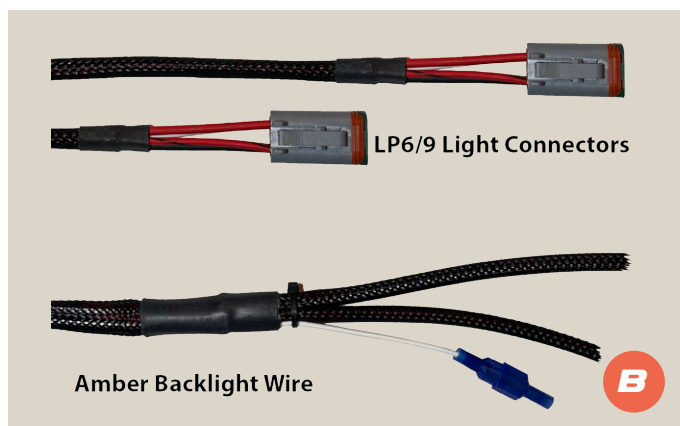
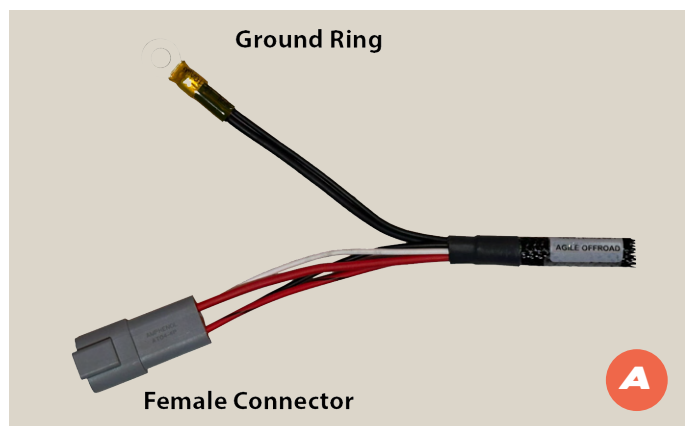
**28.** Remove the desired switch blank from the backside of the headlight switch panel. Route the switch connector through the switch hole. Re-connect the headlight switch and then re-install headlight switch panel using the factory hardware.



## INSTALLATION GUIDE

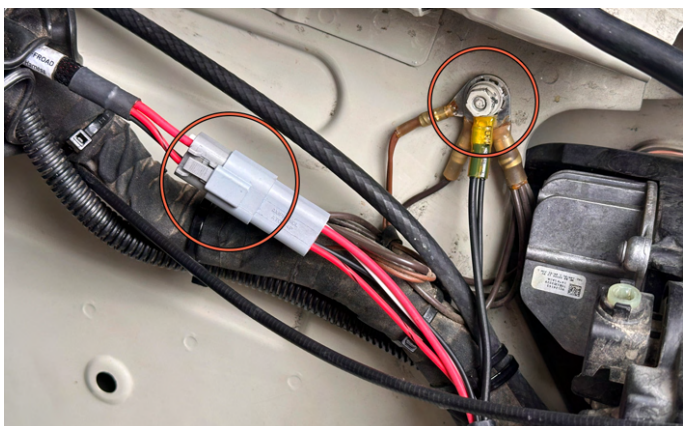


**29.** Connect the ON-OFF-ON factory switch to harness connector and then install switch into switch panel. Use zip ties to secure AO harness to the factory harness making sure harness does not interfere with any steering, braking, and/or accelerator components. Re-install the seat and panels following steps 1-15.

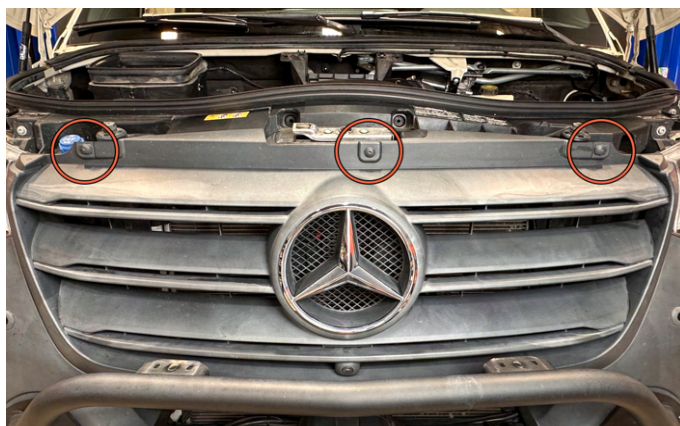


### **AOWH-0003 ENGINE COMPARTMENT HARNESS**

**1 A/B.** The AOWH-0003 harness has five ends: The grey female Deutsch connector, the ground ring, 2 LP6/9 LED light connectors, and an amber backlight wire (white in color).



**2.** Connect the Engine Harness female Deutsch connector to the Cab Harness male Deutsch connector at the firewall boot. Refer to Step 19 above from the Cab Harness. Use a 10mm socket to install the Ground Ring to the factory fender ground stud.



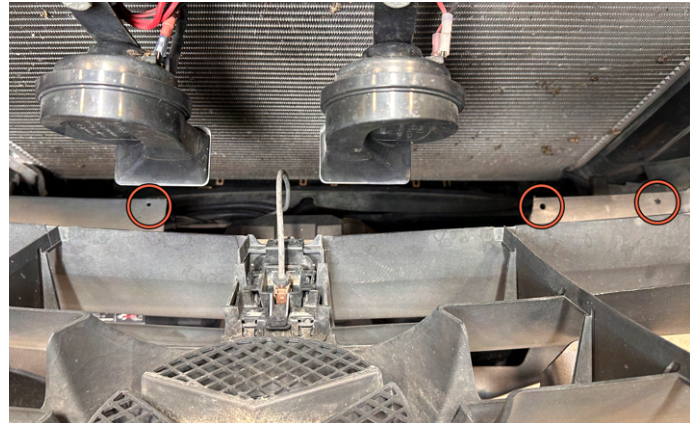
**3.** Use a T25 Torx bit to remove the three upper grille screws.



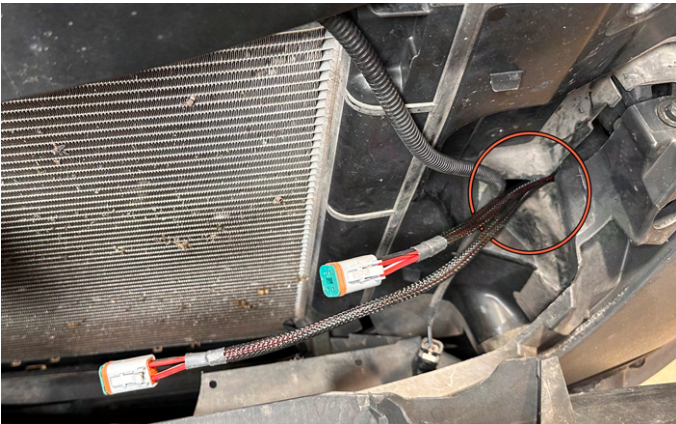
## INSTALLATION GUIDE



**4.** Pull the grille forward to release it from the bumper cover.



**5.** Use a 1/4" drill bit to make three zip tie holes on the bumper cover as shown.



**6.** Route the two LED light connectors through the driver's side radiator support as shown following the factory harness.



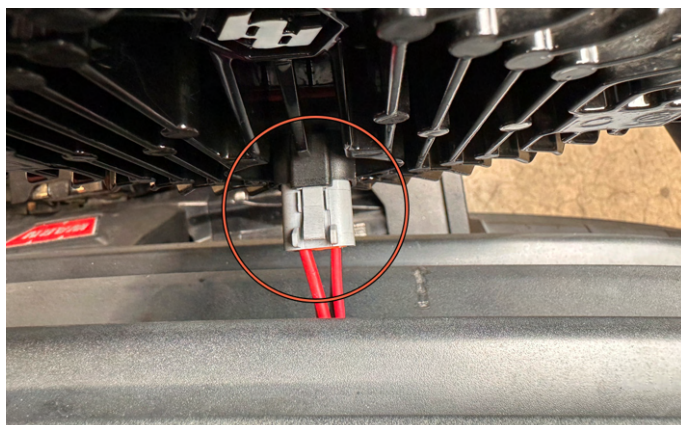
**7 A/B.** Use three zip ties to attach the LED light harness to the three drilled holes at the bumper cover. Coil up any excess wire.



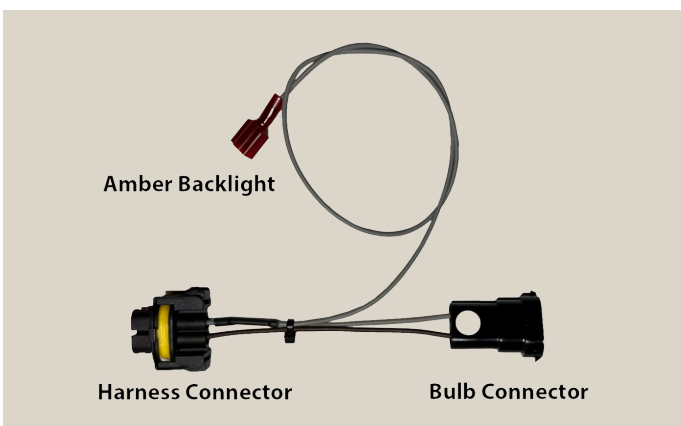
## INSTALLATION GUIDE



**8.** Route the two LED light connectors through the grille as shown. Re-install the factory screws.



**9.** Install the LP6/9 LED lights. Connect the two connectors to the back of the LP6/9s.



**AOWH-0008 FOG LAMP BACKLIGHT TRIGGER ADAPTER - Description:** This harness is designed to trigger on the LP6/9 backlight whenever the factory fog lamps are turned on.

**1.** The AOWH-0008 harness has three ends: the bulb connector, the fog lamp harness connector, and the amber backlight trigger wire (grey in color)



**2.** Disconnect the driver's side fog lamp by pressing on the two outer connector tabs while simultaneously pulling on the connector.



**3.** Install the bulb connector directly to the factory fog bulb and connect the opposite end to the factory harness connector. Run a wire from the grey backlight trigger wire to the white Engine Compartment Harness backlight wire.









Interior



Exterior



Suspension



Air Locker &  
Drivetrain



Steering &  
Brakes



Air  
Compressors



Armor &  
Protection



Bumpers



Lighting



Wheels &  
Tires



Storage &  
Racks



Water &  
Fuel Tanks



Winches &  
Recovery



Replacement  
Parts &  
Accessories



Electrical



Tools

