netradyne

D-810 Installation Guide

May 2025 Version 1.3

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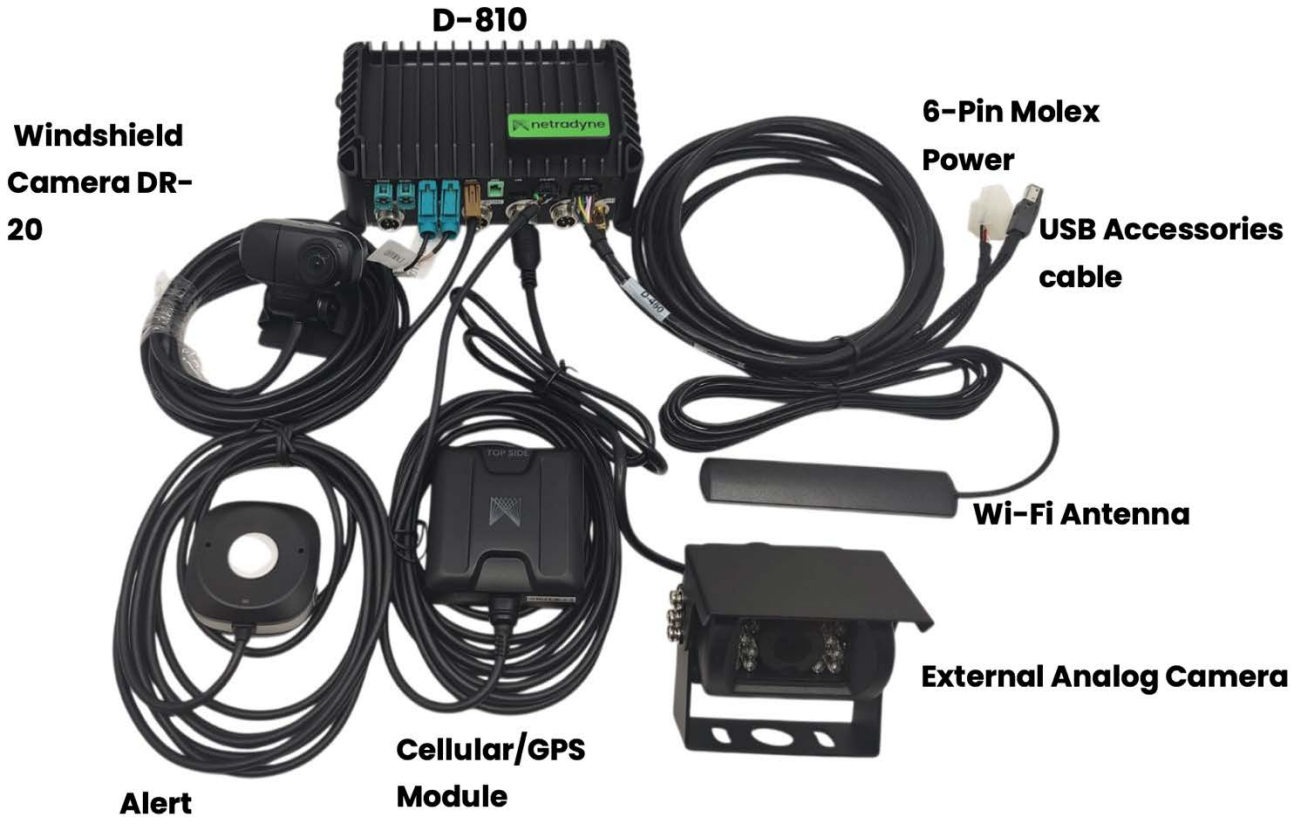
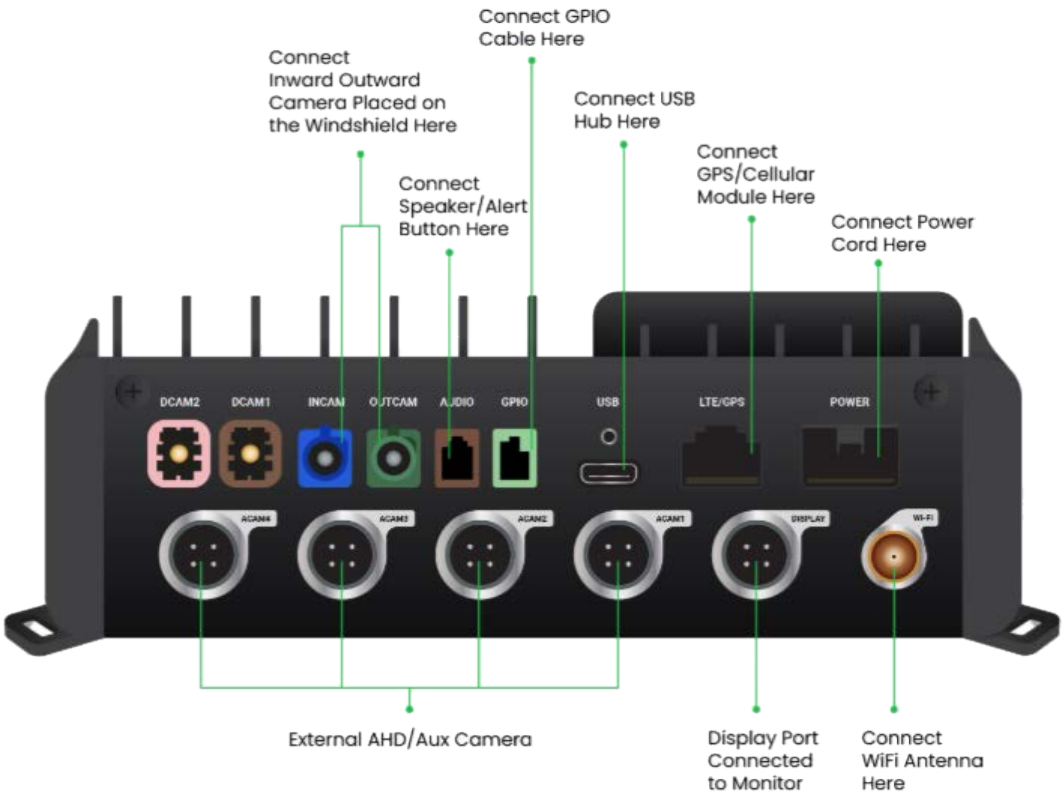
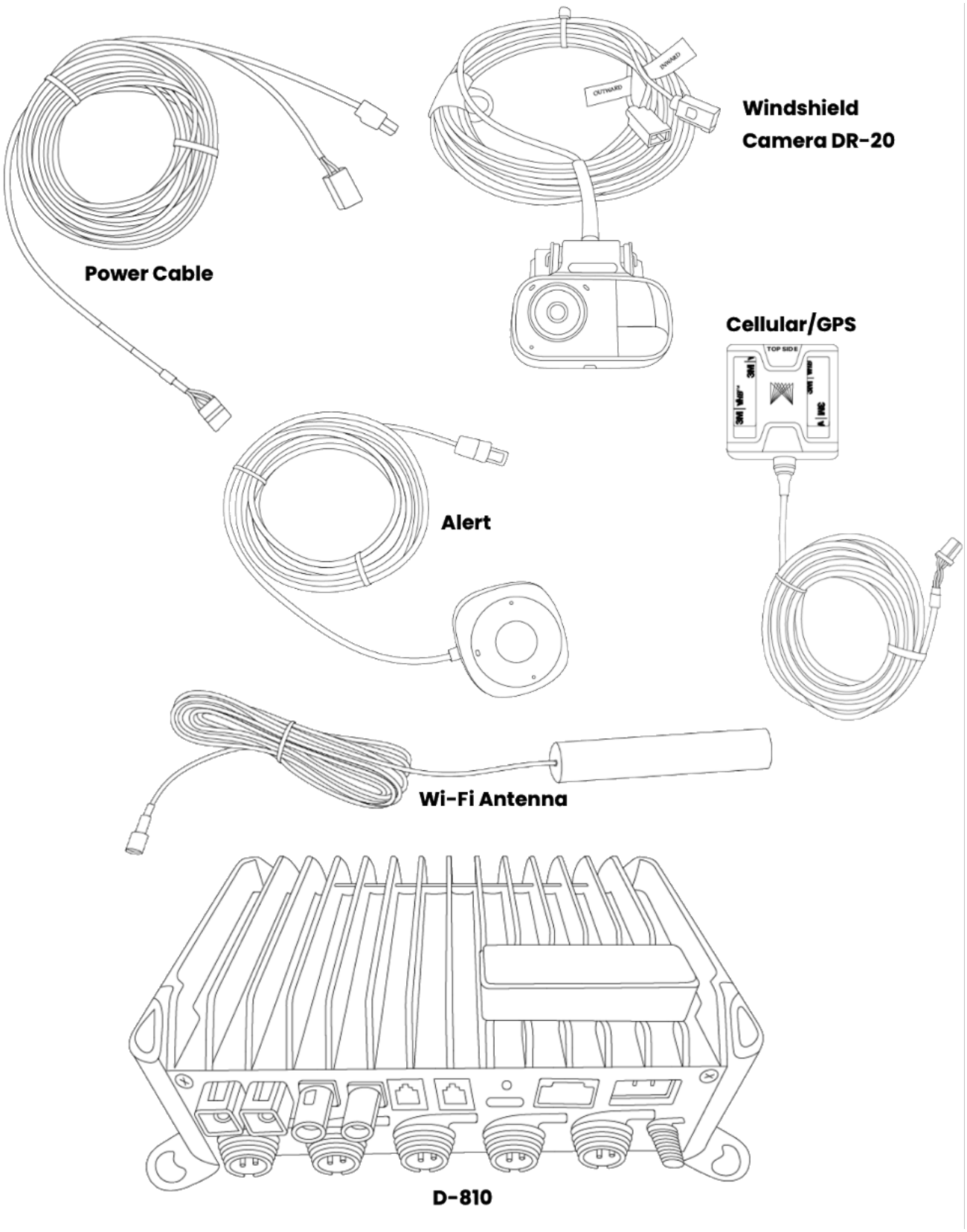
D-810 Connectivity Outline





D-810 Box Content



Equipment Required

The following equipment is required to complete the installation:

- Netradyne Driver•i D-810 Kit – includes Cellular/GPS Module, Power Cable, Windshield Camera Bracket, Speaker Alert Button, and 2-way Windshield Camera
    - Vehicle Power Adapter Cables – (OBDII, J1939, J1708, Flying Leads, or RP1226)
    - Zip Ties (≥6")
    - Rubbing Alcohol (≥91%) or Denatured Alcohol
- Flush Cutters
- Multimeter
- Mobile Phone (Android or iOS) with the Driver•i Installer App
    - Version 6.6 or higher
- T-10 Security Torx Driver or Bit
- Heat Gun
- Trim Removal Tools
- Cordless Drill/Driver (Optional)
- Seam Roller
- Dry, Clean, Lint-Free Cloth
- Ratchet/Socket Driver (8mm)

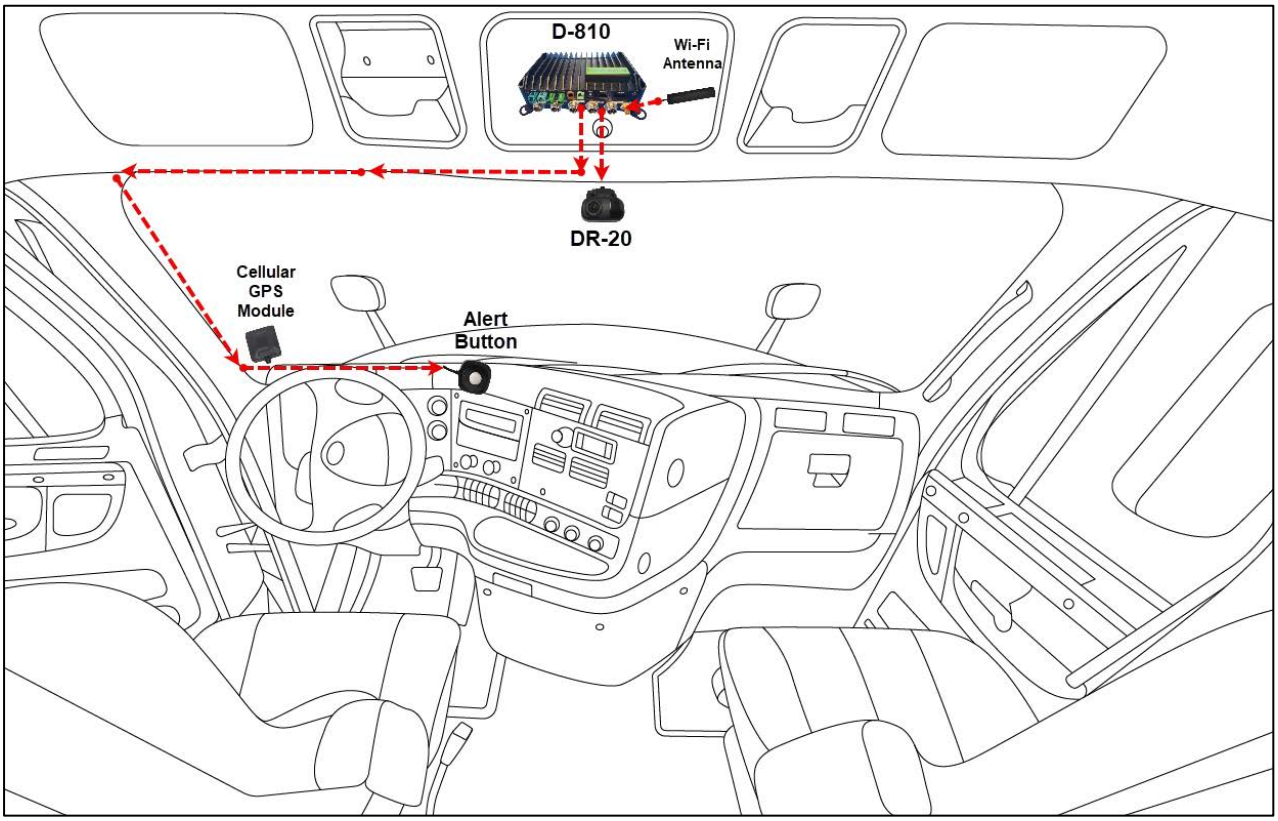
This guide outlines recommended installation procedures for the three most common vehicle types: Class 8, Class 6, and Light-Duty Vehicles.

Suggested Location for Installation

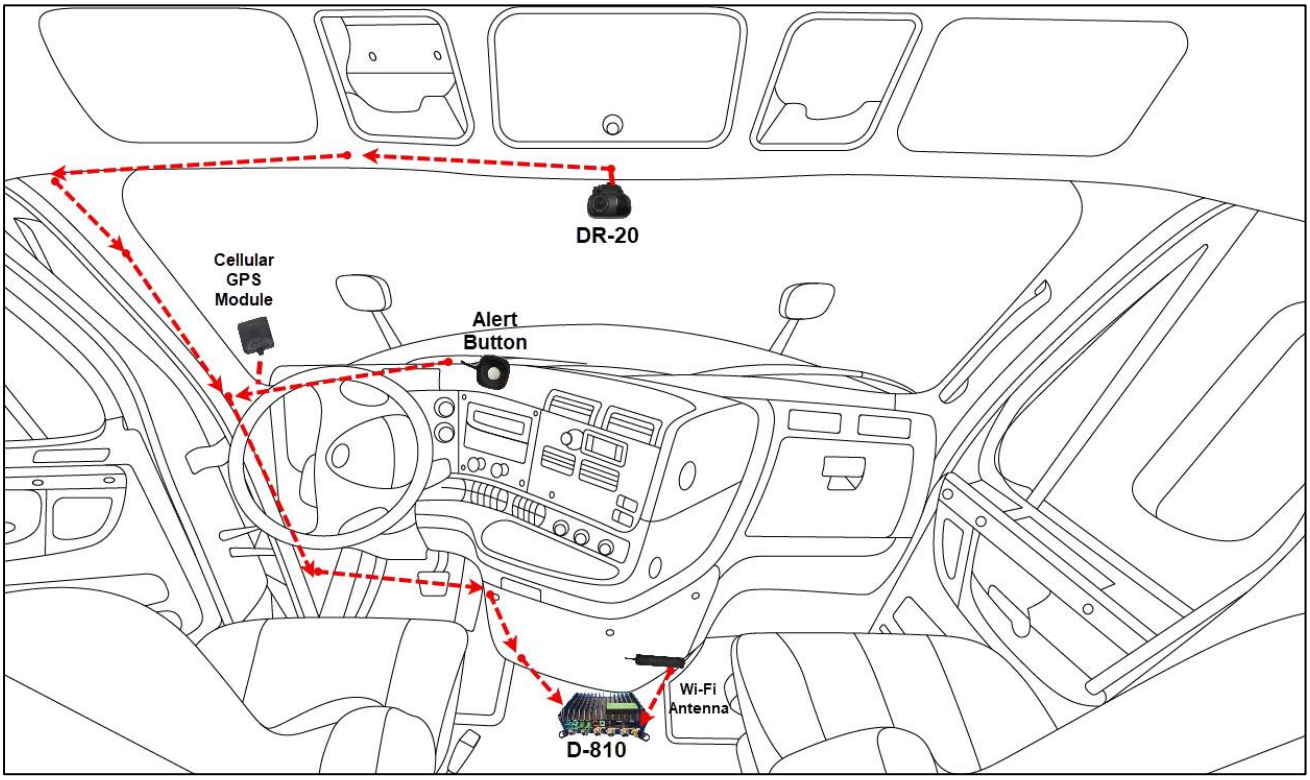
NOTE: Consideration should be given to Placement/Orientation of the D-810 device and cable routing.

- Vehicle Overhead (Class 8)
- Vehicle Doghouse (Class 8)
- Class 6 (HINO)
    - Behind Passenger Side Fuse Panel

Class 8 Installation Outline



Vehicle Overhead Installation



Vehicle Doghouse Installation

Vehicle Overhead Installation : D-810 Unit

Locate the vehicle's overhead area, then place and securely mount the D-810 unit.

Windshield Camera Mounting Requirements

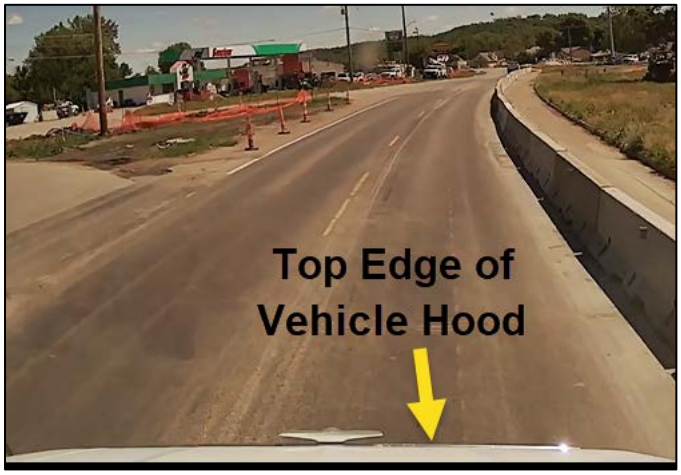
- Positioned within the vehicle's wiper sweep area
- Aligned at the center of the windshield
- Free from obstruction by the sun visor or any other components

Prep Windshield

- Clean the windshield using isopropyl alcohol (91% or higher) or denatured alcohol.
- Wipe away any remaining residue with a clean, dry microfiber cloth.

Placing DR-20 Windshield Bracket and Camera

- Determine Camera Mounting Location
    - Ensure the camera placement allows for proper field-of-view adjustments of the forward-facing camera.
    - The camera should be mounted level, typically capturing just the top edge of the vehicle's hood in the frame.
    - Adjust the camera position as needed to avoid interference from other windshield-mounted systems (e.g., ADAS).



- Mounting the DR-20
    - Remove the VHB tape backing, See Fig A.
    - Position the mounting bracket on the prepared surface, ensuring the camera is within the wiper swipe area and that there are no obstructions, See Fig B.
    - Use a T-10 Torx security bit or driver to loosen the camera from the bracket. Firmly press the bracket against the windshield to ensure proper adhesion, See Fig C.
    - Firmly press the bracket against the windshield to eliminate air bubbles and ensure at least 90% adhesion, see Fig. D.

- Once the mounting bracket is securely attached to the windshield, use the T-10 Torx security bit or driver to tighten the DR-20 camera back onto the bracket. See Fig E.

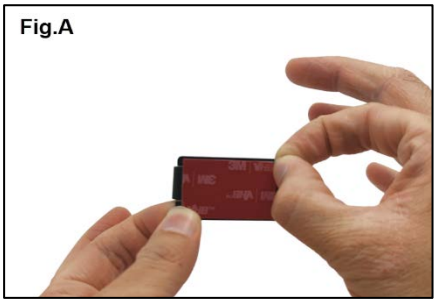


Fig.A


Fig.B


Fig.C

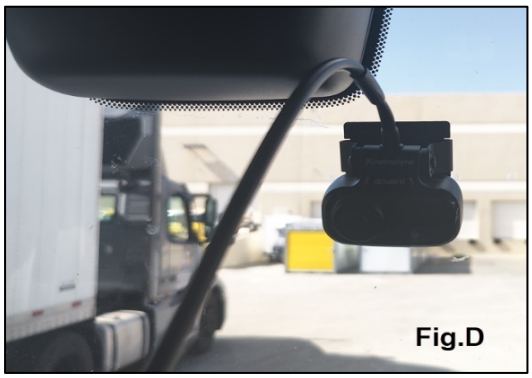


Fig.D


Fig.E

Routing DR-20 Windshield Camera Cable

- Route the 2-way camera cable. In this instance, the cable will be routed from the vehicle's headliner into the overhead compartment, see Fig. A.
- Connect both FRAKA connectors to their designated ports. The ports are labelled "Inward" and "Outward", see Fig. B.
    - A flashing red LED on the DR-20 indicates that the "Inward" and "Outward" cables are connected in reverse.


Fig.A

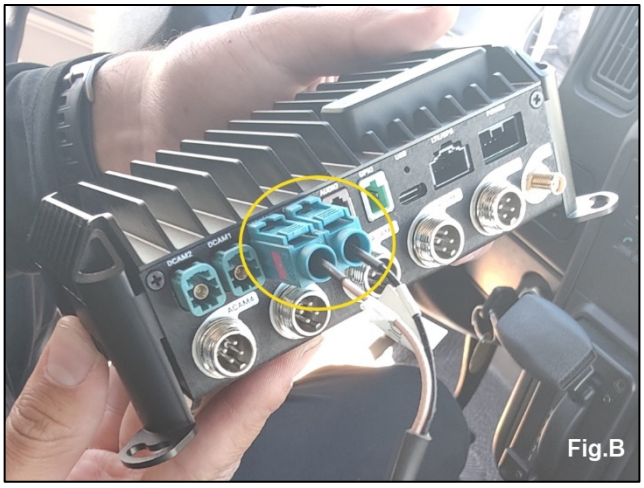


Fig.B

Routing and placing Alert Button

- Remove the vehicle's driver-side A-pillar, see Fig. A.
- Ensure the alert button is positioned within the driver's reach on the driver-side dashboard.
    - Consult the customer to confirm the preferred placement of the alert button.
- Clean the area on the dashboard where the alert button will be mounted using 91% or higher isopropyl or denatured alcohol.
- Remove the VHB tape backing from the alert button, see Fig. B.

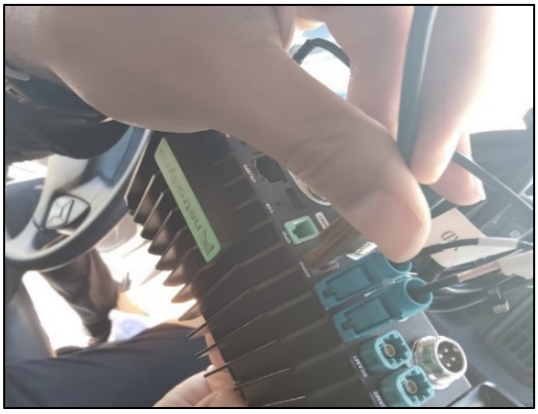
- Place the alert button on the cleaned dashboard area and apply firm pressure to ensure the VHB tape adheres securely, see Fig. C.
- Route the alert button wire down the driver-side dashboard, up the A-pillar, and through the vehicle headliner, see Fig. D and D1.
    - Ensure the cable routing does not interfere with any vehicle airbags.
- Connect the brown connector to the brown port labelled AUDIO on the D-810 unit, see Fig. F.

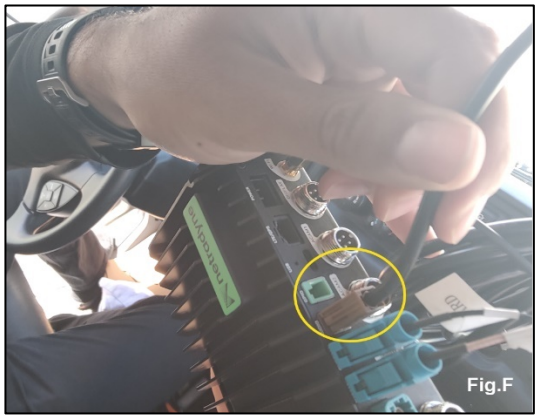

Fig.A


Fig.B


Fig.C


Fig.D

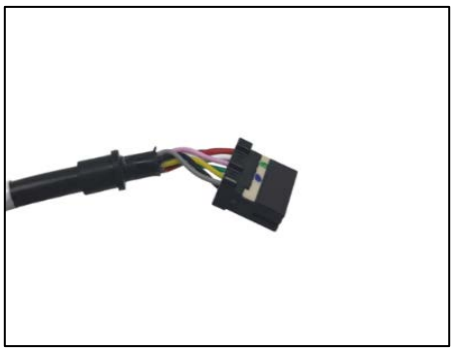


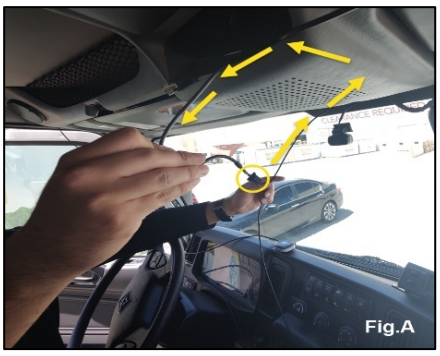


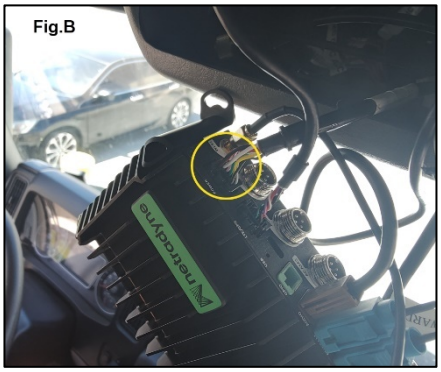
Routing D-810 Power Cable

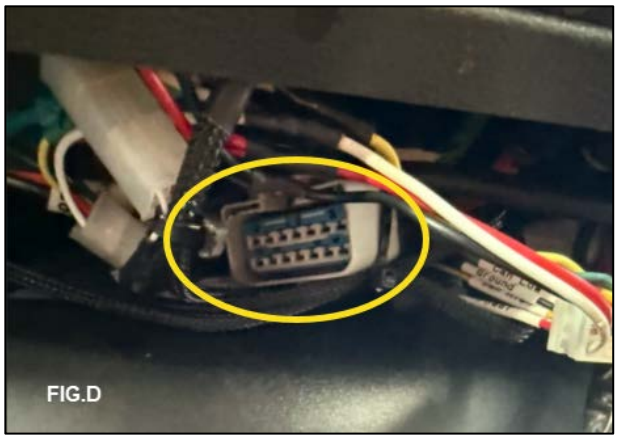
- Route the black-tipped end of the power cable through the vehicle headliner and overhead to the D-810 unit, see Fig. A.
- Once the power cable has been routed into the overhead area, plug the black connector into the port labelled POWER on the D-810 unit, see Fig. B.
- Route the 6-pin Molex and GT32 connectors down the headliner, along the driver-side A-pillar, and into the vehicle dashboard toward the diagnostic port, see Fig. C & C1.
- Install the truck-specific cable as shown, see Fig. D.
    - Refer to the Truck-Specific Cable Guide for correct cable selection and detailed installation instructions.

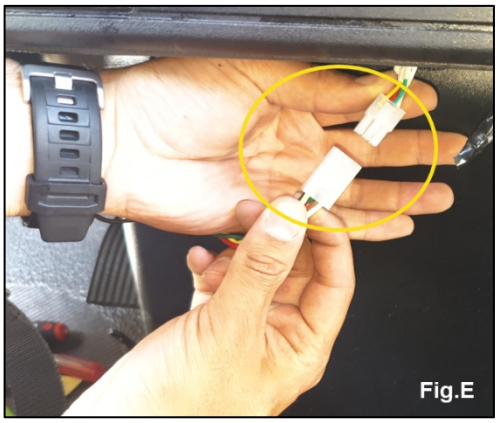
- Connect the D-810 Power I/O cable's female 6-pin Molex connector to the male 6-pin Molex connector of the truck-specific VBUS vehicle power adapter cable, see Fig. E.





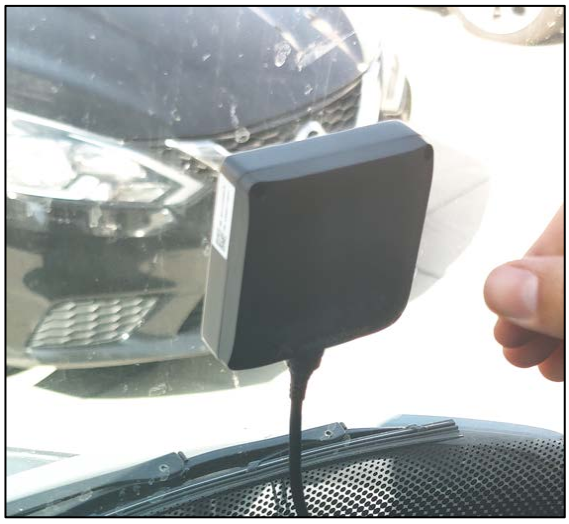


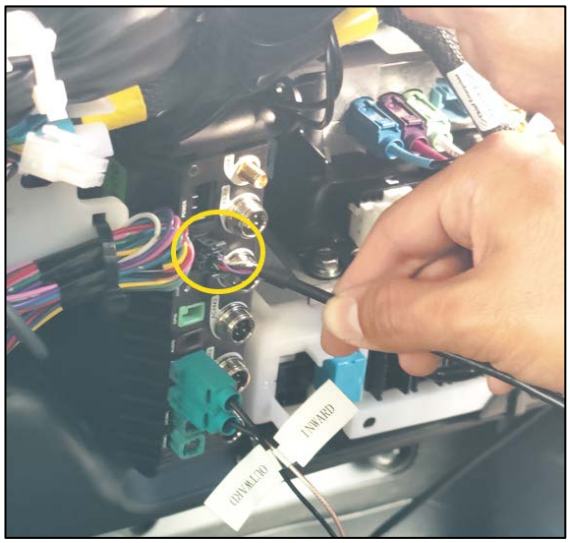




Routing and placing the Cellular/GPS Module

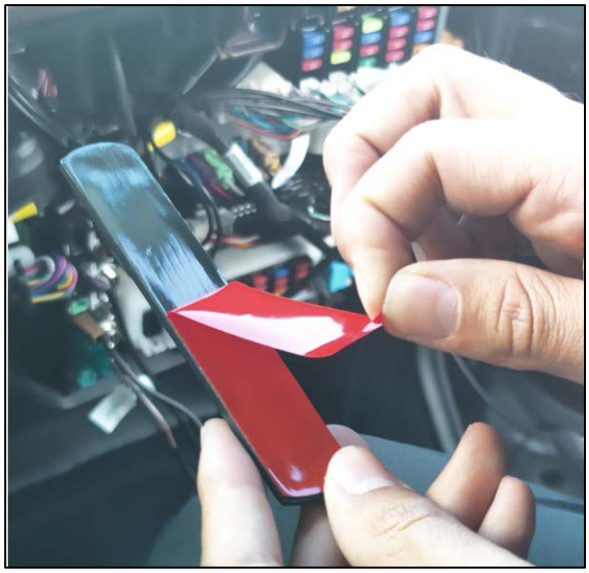
- Clean the lower part of the driver-side windshield where the Cellular/GPS module will be installed using 91% or higher isopropyl alcohol or denatured alcohol.
- Remove the VHB tape backing from the Cellular/GPS module, see Fig. A.
- The Cellular/GPS module may be mounted either on the vehicle dashboard or in the lower corner of the windshield.
- Ensure the module is oriented with the arrow pointing skyward.
- Position the module on the driver-side lower corner of the windshield and apply firm pressure to secure the VHB tape in place, see Fig. B.
- Route the module's cable up the driver-side A-pillar, along the vehicle headliner, and into the overhead console.
- Plug the cable into the D-810 device port labelled LTE/GPS, see Fig. D, E & F.

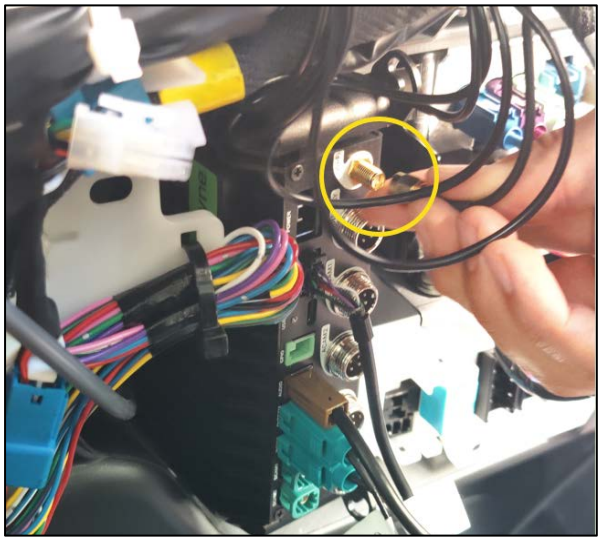


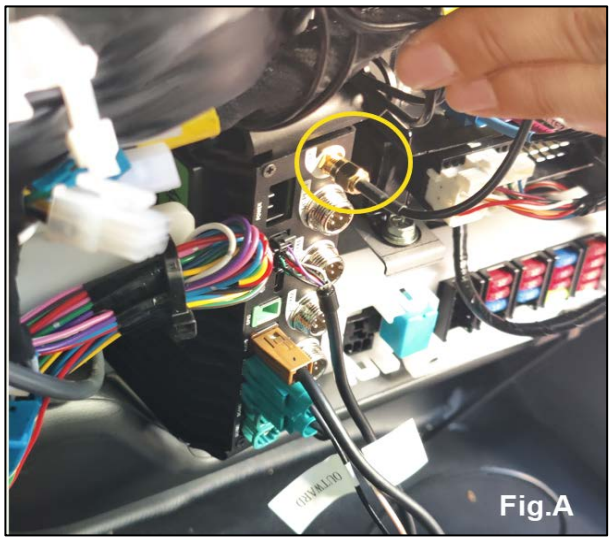


Connecting and Placing Wi-Fi Antenna

- Remove the adhesive backing from the Wi-Fi antenna's VHB tape.
- Position the antenna in a secure location near the D-810 unit, ensuring it is not surrounded by metal.
- Attach the Wi-Fi antenna to the D-810 by screwing it in, as shown in Fig. A.

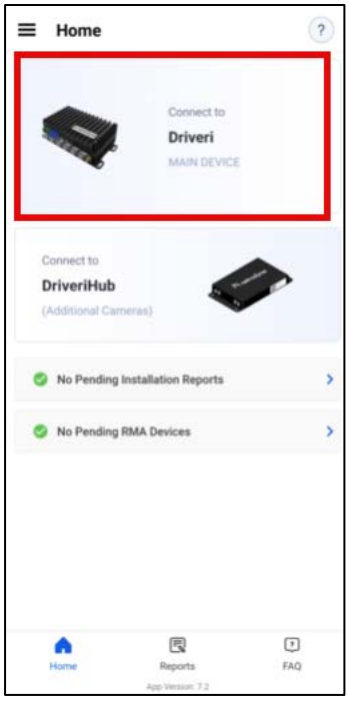


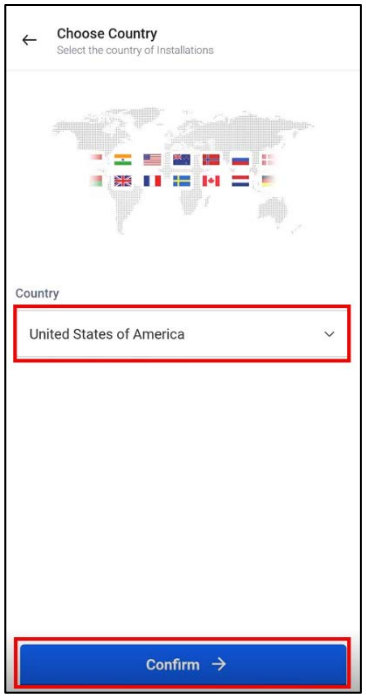


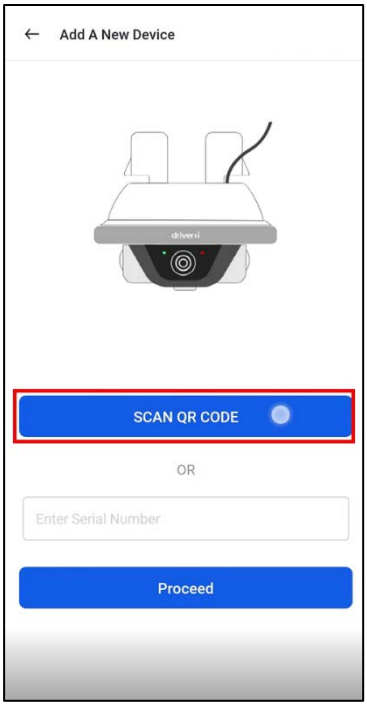


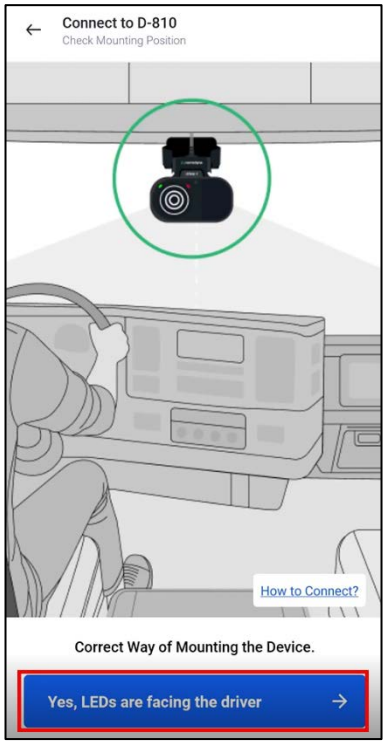
Step 4: Installer App Pairing

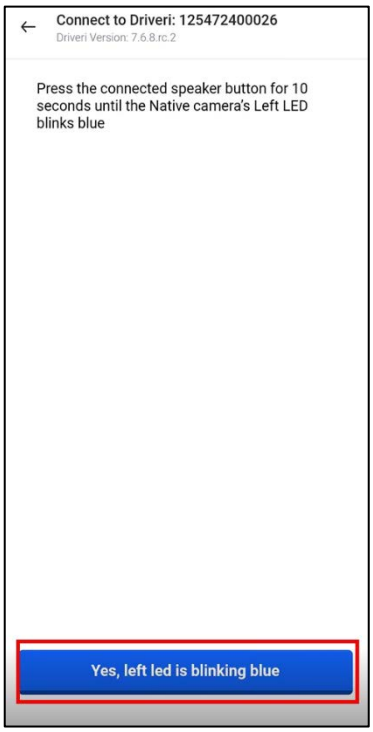
Open the Installer APP

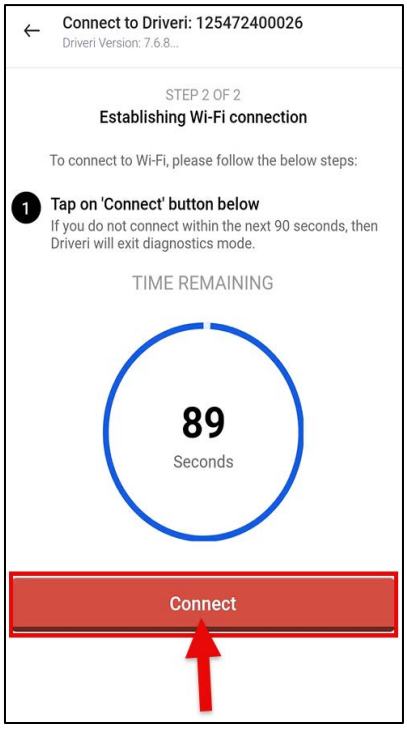


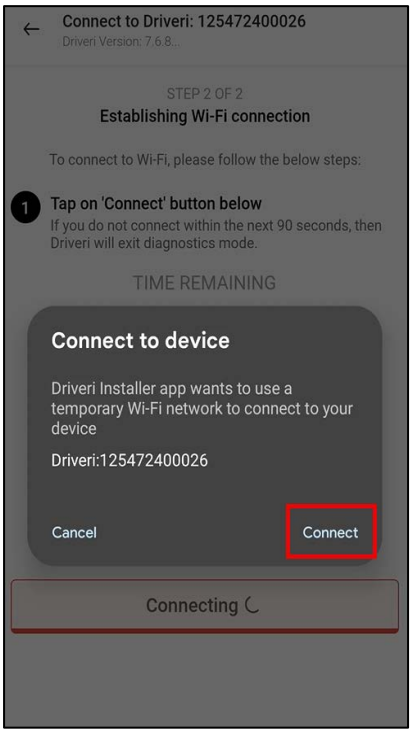


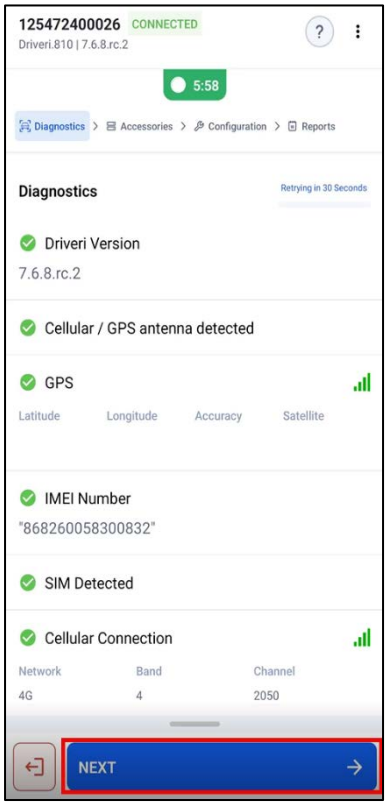


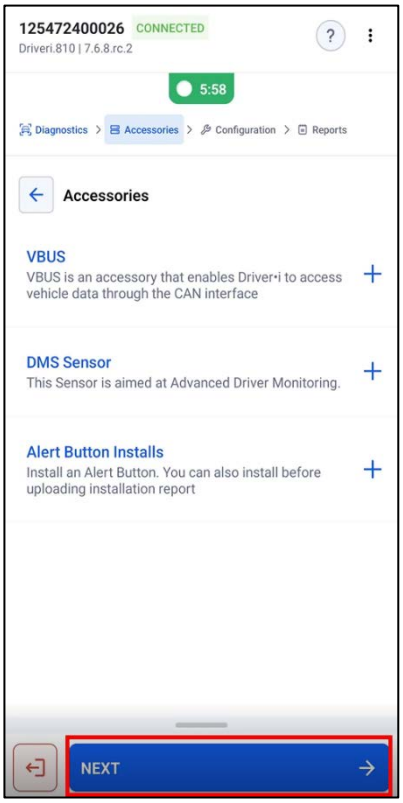


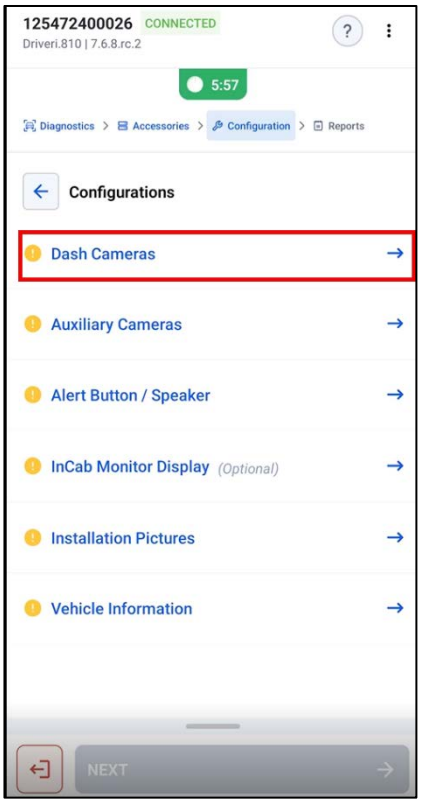




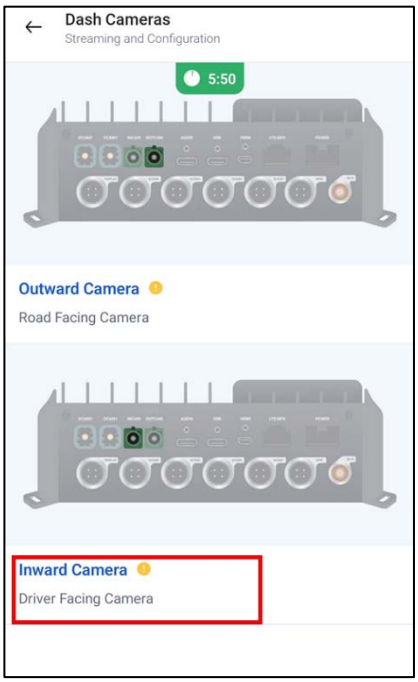




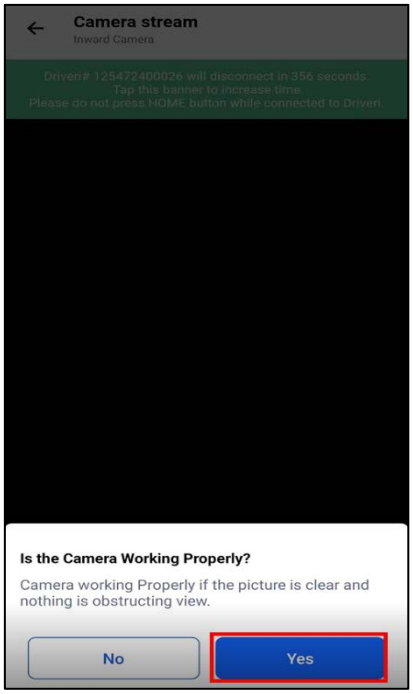




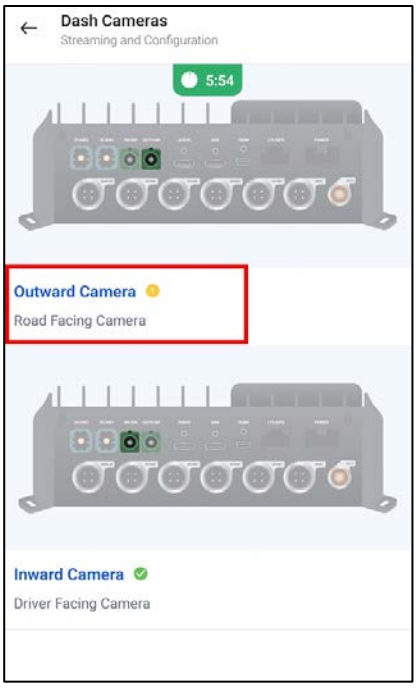
Tap on the appropriate accessories if applicable, if not, tap on next.



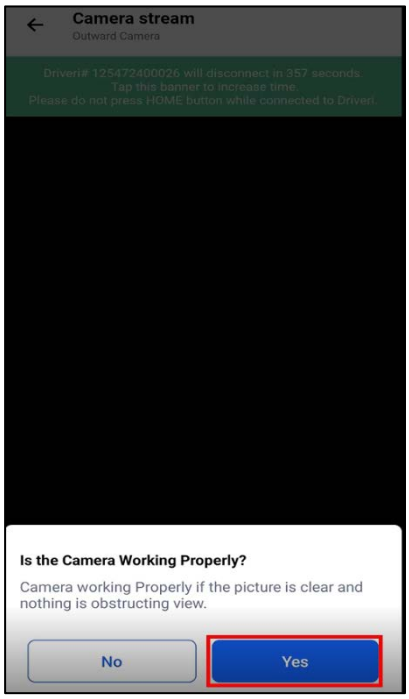
Tap on Inward Camera to verify feed.



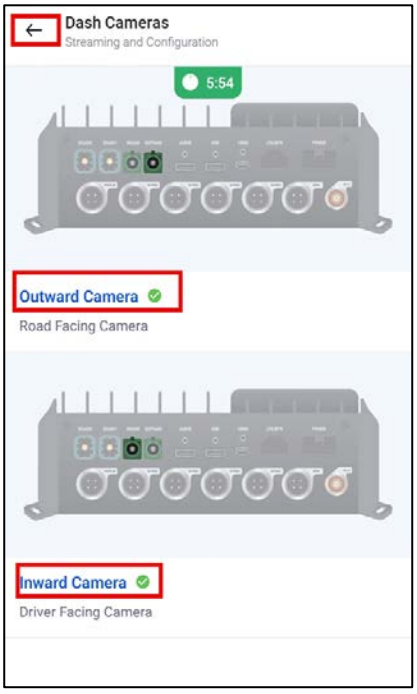
Tap on Yes, if video feed is working properly.



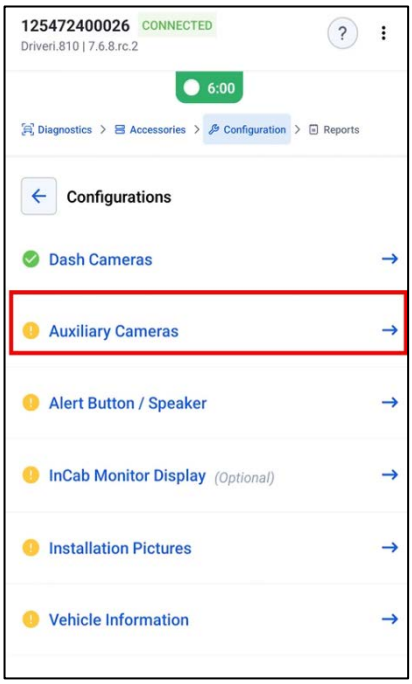
Tap on Outward Camera to verify feed and check camera alignment.



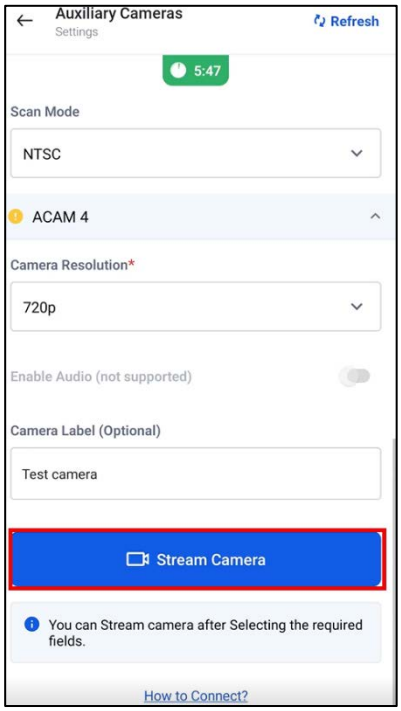
Tap on Yes, if video feed is working properly.

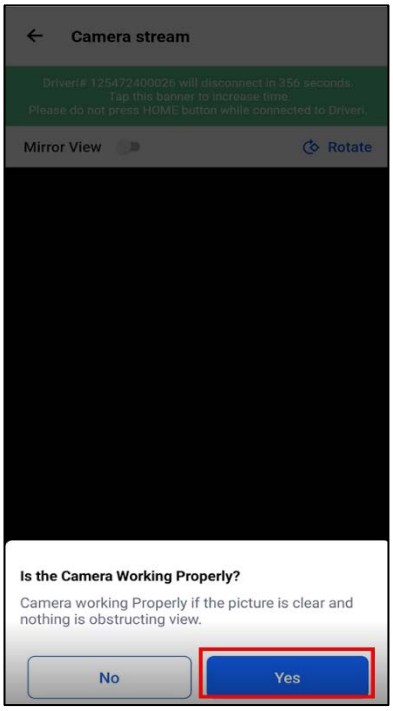


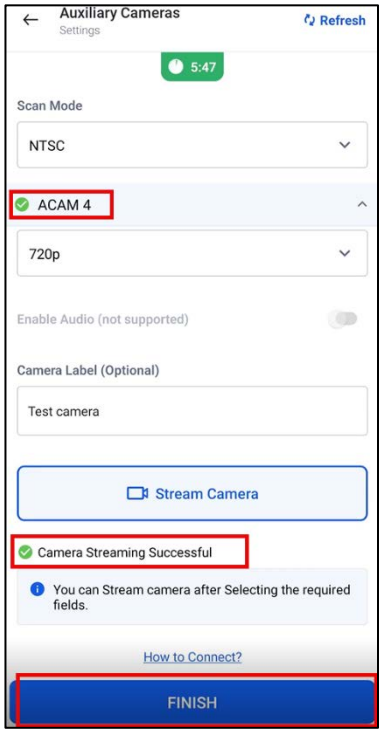
Once you have confirmed both the Inward and Outward Camera Feeds, tap the Back Arrow (left arrow) to return to the configuration screen.



Tap on Auxiliary cameras if applicable, if not, move on to the Alert Button /Speaker.

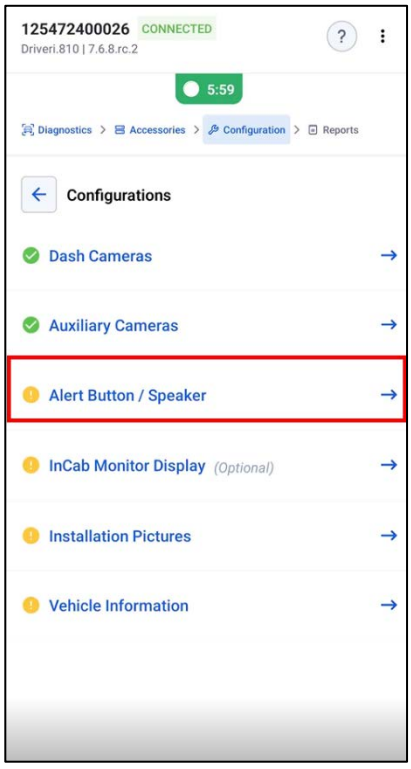


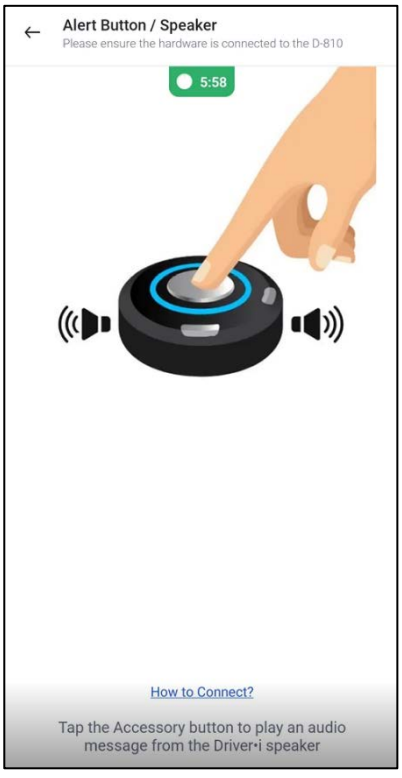




Tap on Camera Stream, then tap on Yes if video stream is working properly.

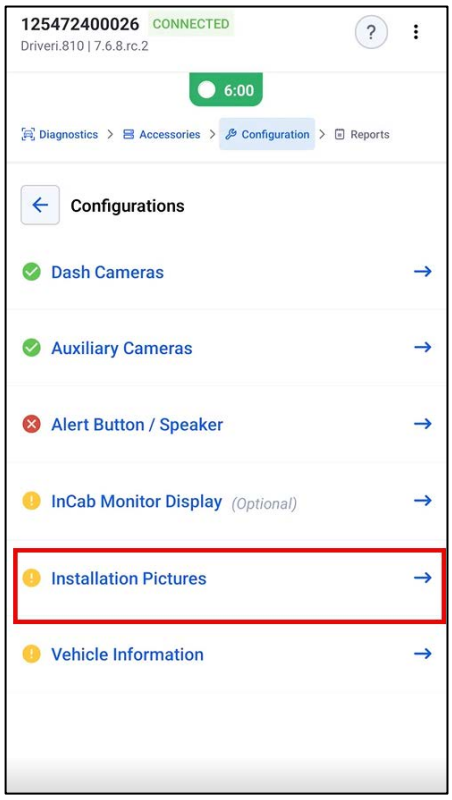
Once you have verified all Auxiliary camera feeds (up to four), tap on the Finish button to get back to the configuration screen.



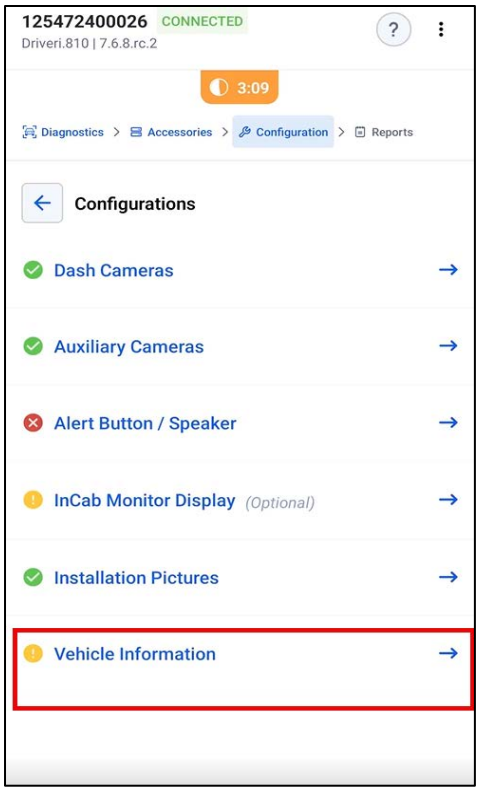


Tap the Alert Button when prompted to do so, to detect.

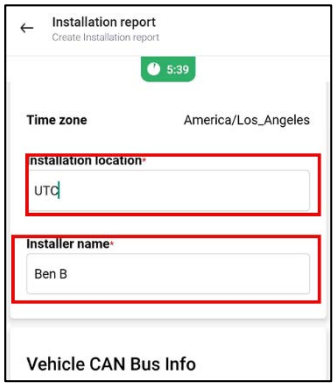
Tap on the Alert Button/Speaker.

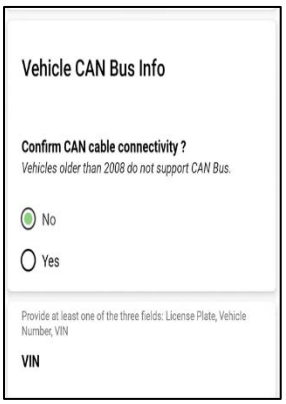


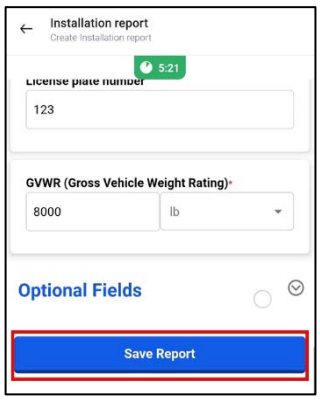
Tap on Installation Pictures to upload up to 8 pictures.



Tap on Vehicle Information to input data for installation report.







Fill out all required fields, including Installation Location, Installer Name, whether the vehicle is using a CAN BUS cable, VIN, and Vehicle Number. Then, tap Save Report.