netradyne

Driver•i D-450 Quick Installation Guide

June 2024 Version 1.5

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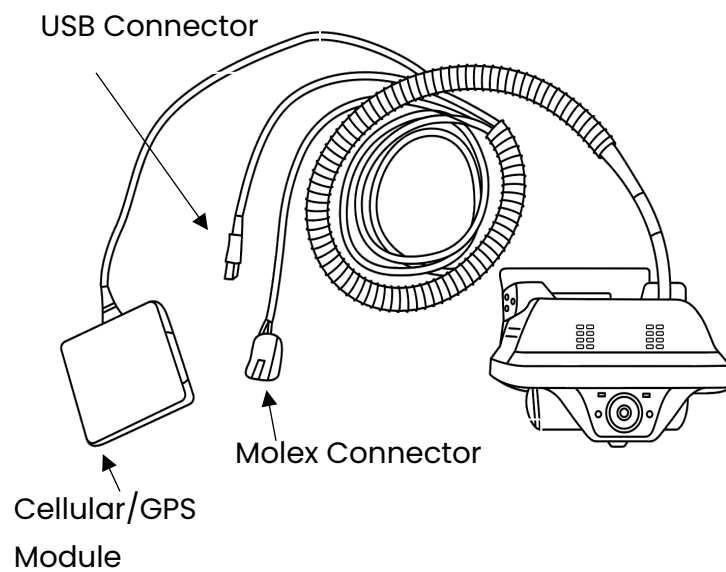
D-450 Quick Installation Guide

This document serves as a Quick Installation Guide for Field Engineers to assist them with the installation of the Driver•i device.

Pre-Requisites

Various tools and parts are required to complete the installation. The Driver•i device box contains the following items:

USB Connector

Molex Connector

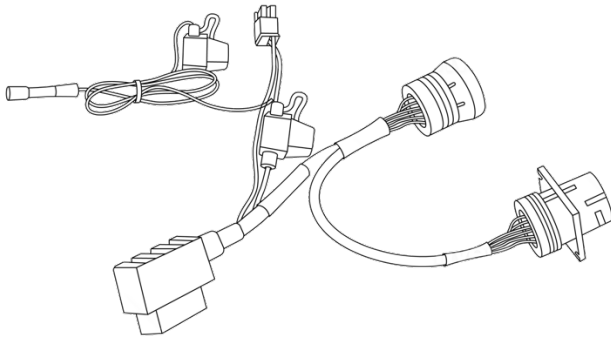Cellular/GPS Module

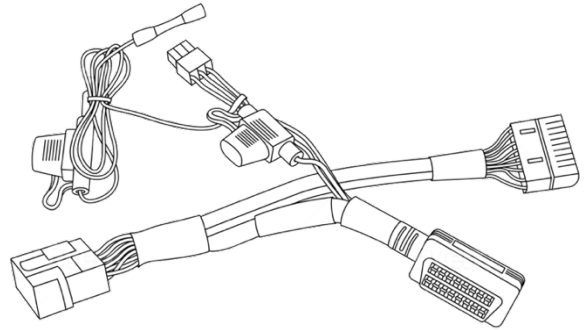*D-450 Driver•i Camera (QTY: 1)*

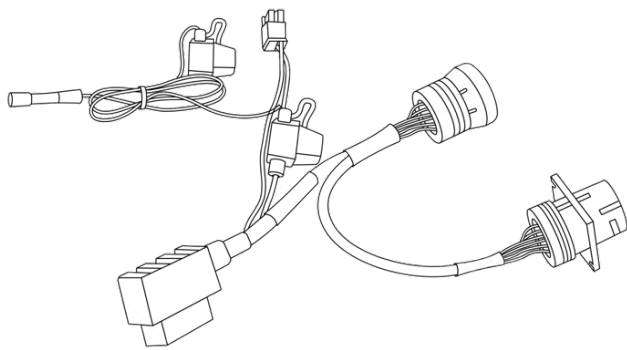*Zip Ties (QTY: 2)*

99.9% Alcohol Wipes (QTY: 2)

Here are the examples of Vehicle Power Adapter Cables that might be needed:

J1708 Power Adapter Cable - EZJ1708E01

OBDII Power Adapter Cable - EZOBDIIE01

J1939 Power Adapter Cable –EZJ1939E01

Tools Required

- T-15 & T-20 Security Torx Bit.

Driver•i D-450 Connectivity Outline

The snapshot here details the connectivity of Driver•i device.

D-450 Camera

Molex between D-450 and vehicle harness

GPS Cellular Module

USB

To Vehicle Ignition

*VBUS Connection

To Diagnostic Port

To Vehicle Dash

*VBUS is currently Unavailable for the D-450, but will be available in the near future.
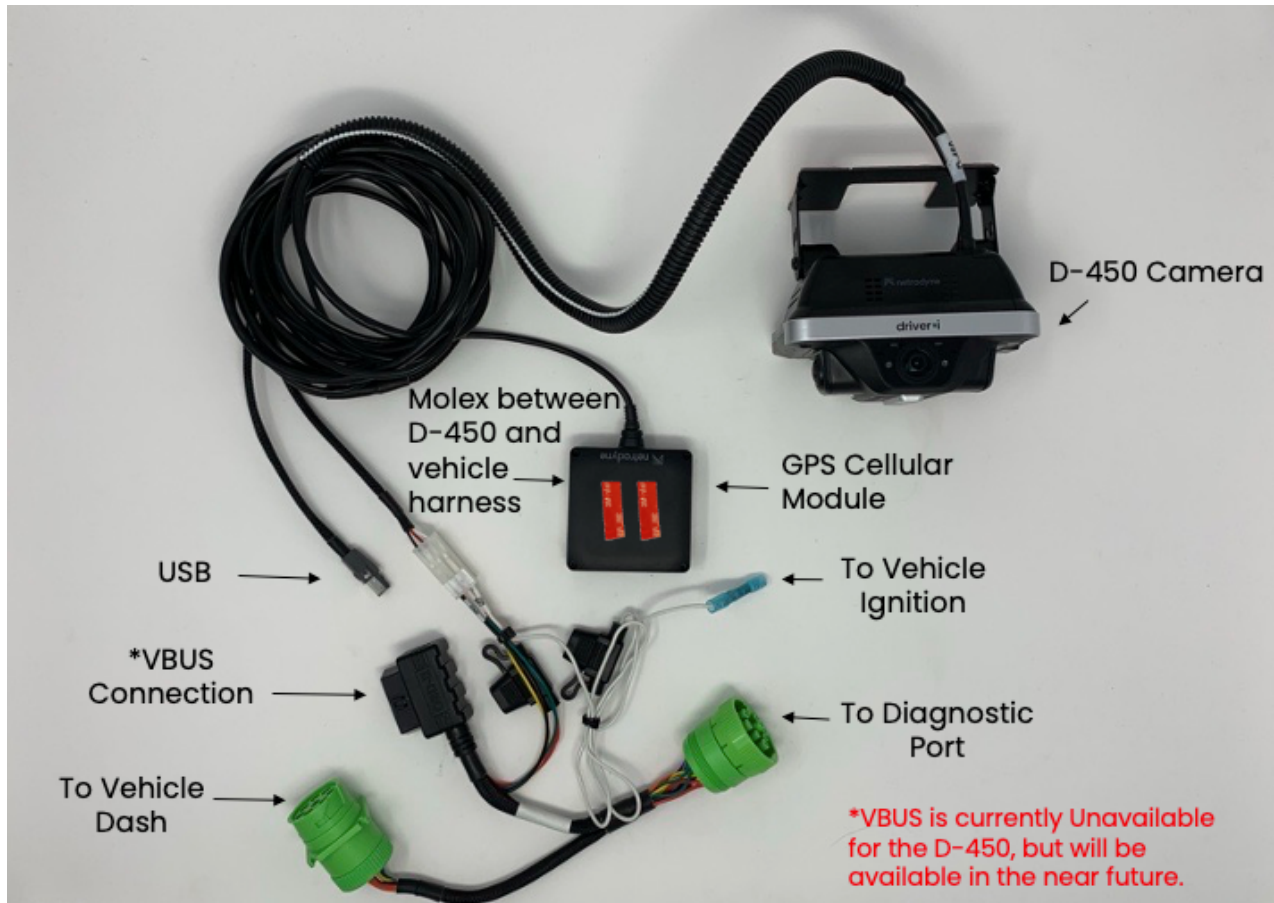
Step 1: Mount the Driver•i Camera

1. Select a mounting location and ensure the Driver•i device does not obstruct the driver's line of sight or vision of the road.
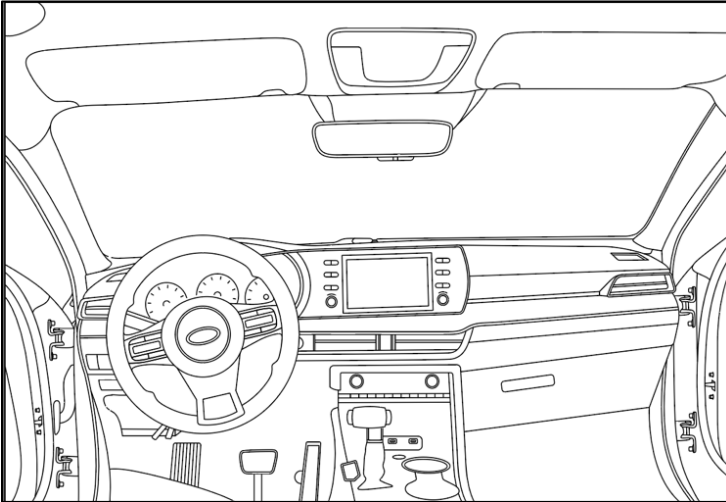

2. Ensure windshield is clean and dry on the inside of the cabin. Use a 91% or higher alcohol content wipe to clean the mounting area. Use a clean microfiber cloth to remove any additional residue.

    Note: Make sure the windshield is warm/at room temperature (approx. 72° F or above) and dry at the mounting location to provide optimal adhesion for the mounting bracket.
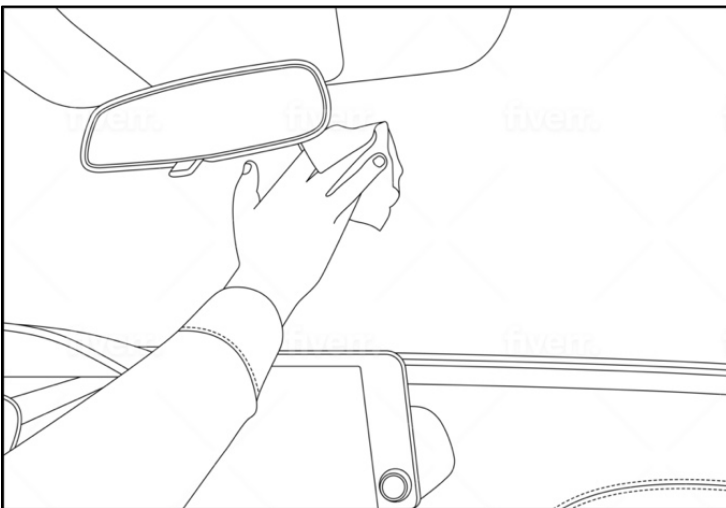
3. Remove the backing seal from two-way tape on the underside of mounting bracket. Attach the mounting bracket to windshield. Place the mounting bracket within the windshield wiper swipe zone. Ensure it is as close to the vehicle centerline as possible.

4. Use a **T-20 Security Torx Driver** to loosen Driver•i Device from the mounting bracket.
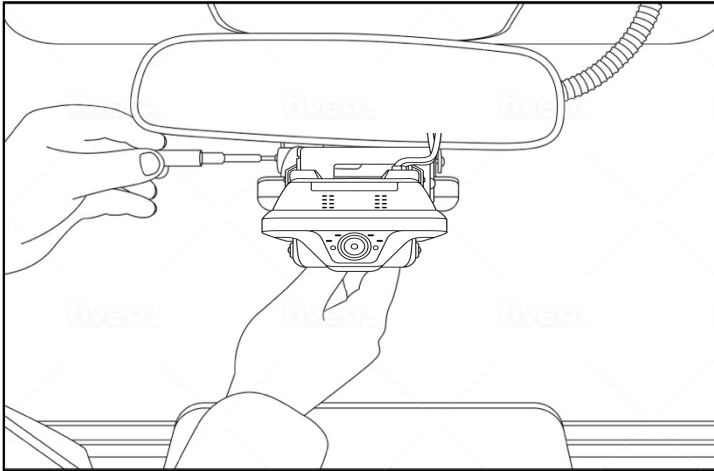
5. Remove the Driver•i Device and apply pressure to the back of the mounting bracket to secure it in place and to remove any air bubbles in between the mounting bracket tape and windshield. We recommend using a seam roller.
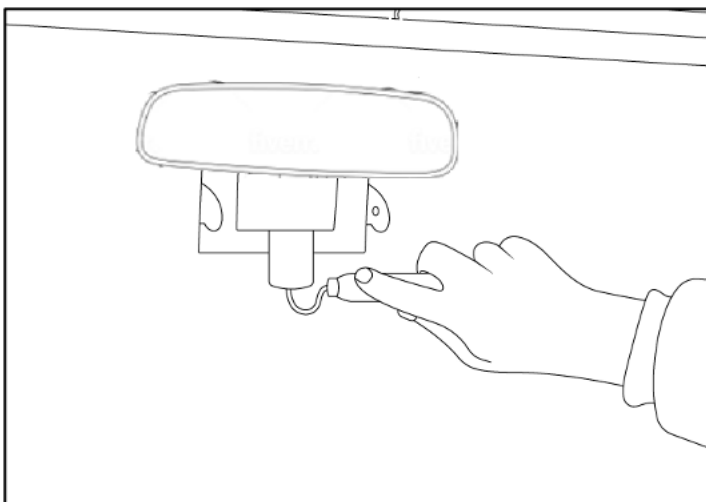
6. Picture below represents the preferred mount orientation on vehicles with no rear-view mirror or other obstructions. (mostly class 6 to 8, large vehicles)
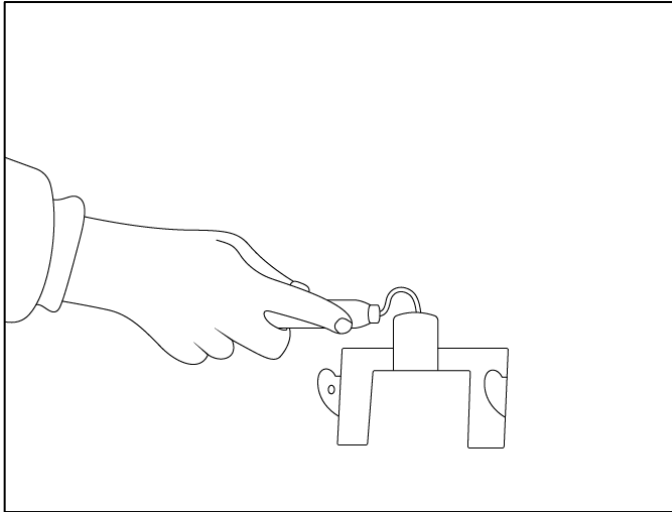
7. Reattach Driver•i Device to the mounting bracket using a **T-20 Security Torx Driver** and ensure the device is leveled with road horizon.
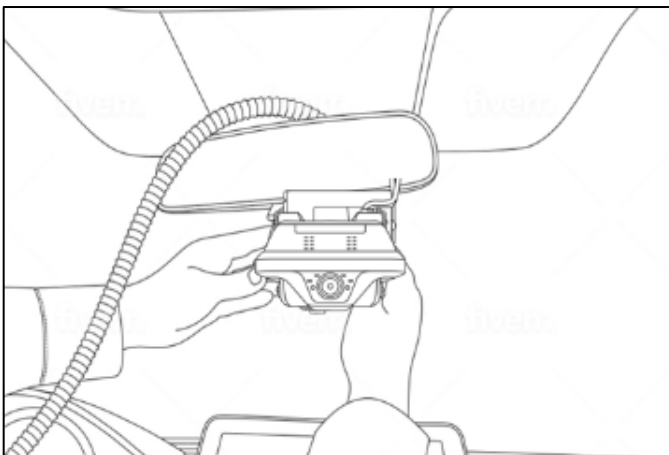
Step 2: Route Cables

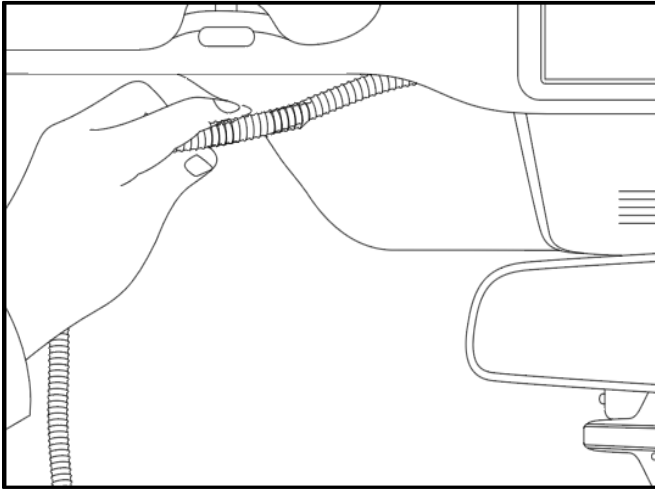## Cable routing:

- Remove the A-pillar cover to route the cable across the top of the headliner and down the driver side A-pillar.

- Secure the cables using zip ties. Ensure the cables and zip ties do not Interfere with the deployment of any side airbags.
- From the bottom of windshield side pillar, run the power cable behind dash panels as needed toward the diagnostic port or connection point (example: J1939 9-pin, J1708 6-pin, fuse panel, OEM-specific connection point).
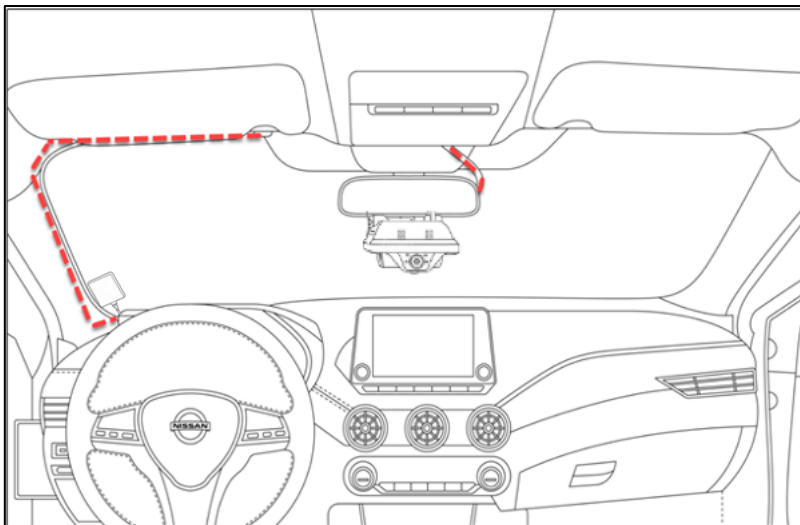
Step 3: Mounting the Cellular/GPS Module to the windshield

Cellular/GPS Module Placement:

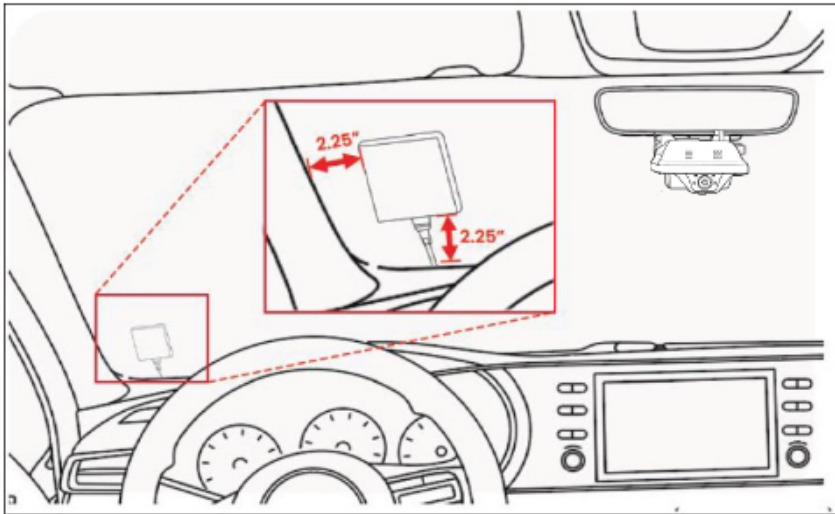- The preferred location of the Cellular/GPS module is on the windshield driver's side lower corner.

Prep Windshield:

- Ensure windshield is clean and dry on the inside of the cabin. Use a 91% or higher alcohol content wipe to clean the mounting area.
- Use a clean microfiber cloth to remove any additional residue.

In case of cold weather:

- It may be necessary to preheat the windshield by using the vehicles defroster.
- If needed, you can also gradually heat the mounting area with heat gun.

Note: Make sure the windshield is warm/at room temperature (approx. 72° F or above) and dry at the mounting location to provide optimal adhesion for the Cellular/GPS Module.

Mounting the Cellular/GPS Module
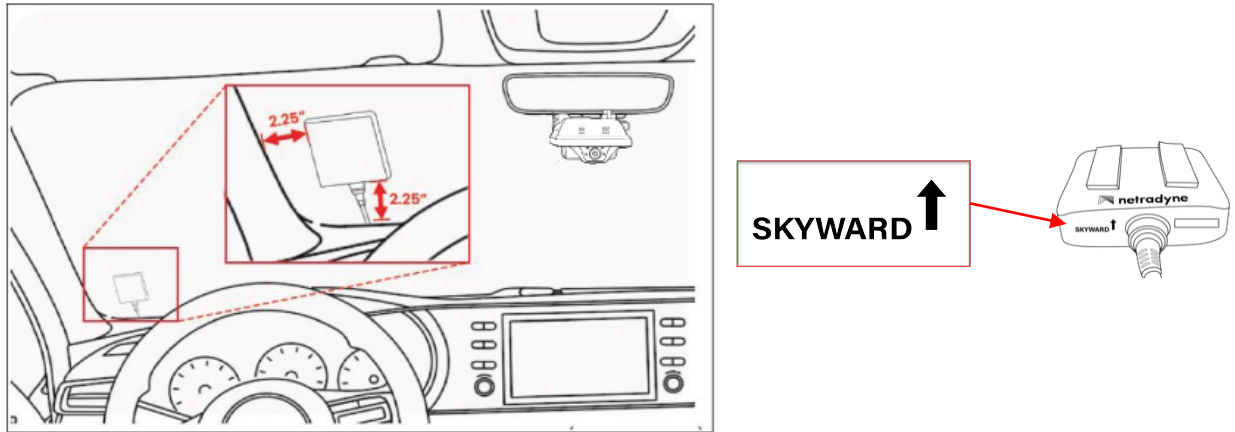
- Remove the backing seal from the two-way tape on the top of the Cellular/GPS Module.

- Place the **Cellular/GPS Module** on the lower driver side of the windshield, making sure the arrow marked "Skyward" is pointing outward and upward.

- Ensure that that VHB tape is on the top side of the Cellular GPS Module as shown in the illustration.

- Ensure the Cellular/GPS Module is positioned 2.25 inches up from the dash and 2.25 inches to the right of the driver side A pillar.

- In some cases, it may not be possible to mount the Cellular/GPS Module in the preferred location due to interference with other electronic devices or other obstacles.

- If the Cellular/GPS Module cannot be installed in the preferred location on the driver's side, it is acceptable to install it in the same location on the passenger's side or other locations, as long as it satisfies the view of the sky requirement.
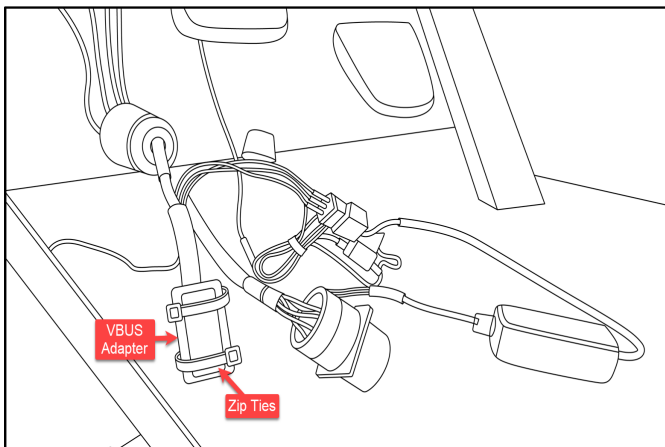
Step 4: Connect Driver•i and VBUS Adapter

This section will use J1939 Vehicle Power Adapter Cable as an example.

1. Ensure **Driver•i Device (D-450)** Camera cable is connected to the Power Adapter.
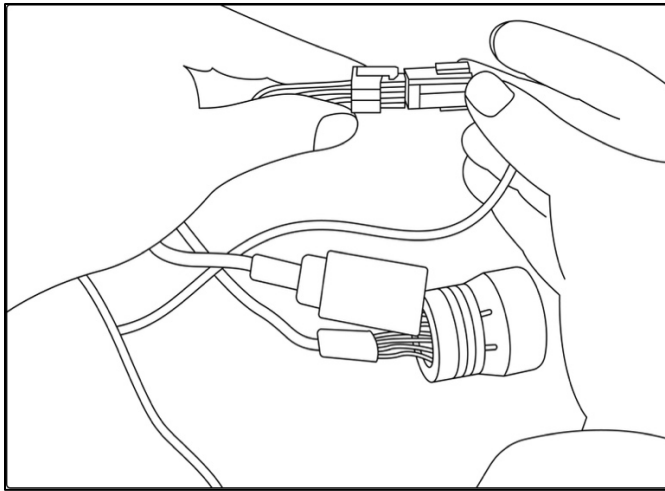

2. Remove the vehicle's diagnostic connector (example: J1939 9-pin) from the original mounting location (example: kick panel).

3. Connect the Driver•i Device 6-pin Molex plug to the Vehicle Power Adapter Cable, then plug the female diagnostic connector of the adapter cable to the vehicle's male diagnostic port (example: J1939 9-pin).
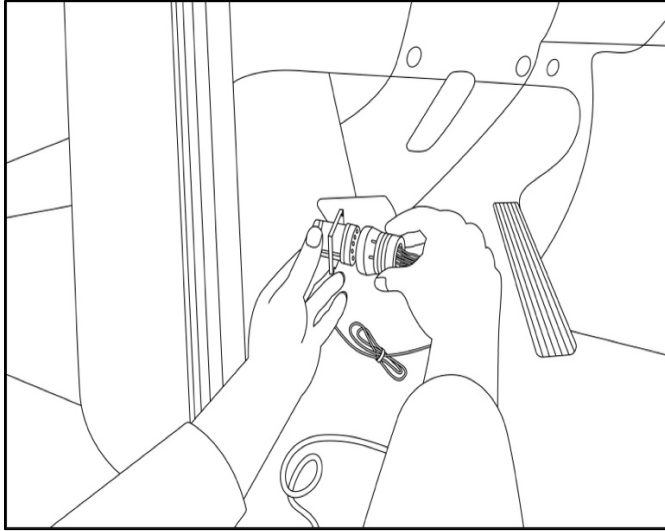
4. Install the male connector of the Vehicle Power Adapter Cable into the vehicle diagnostic port's original mounting location.
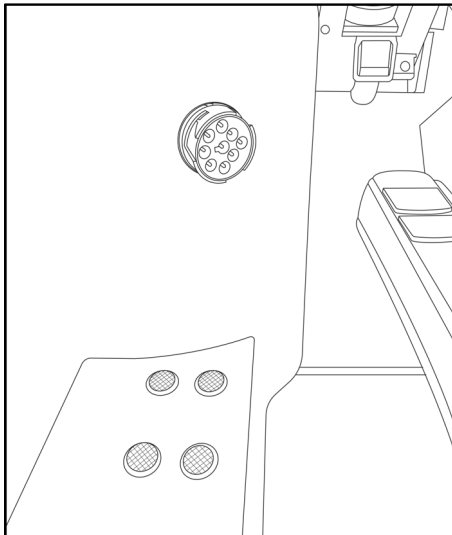
5. On WOM (Wake On Motion) installations with VBUS devices, a true Ignition source is required (Not ACC- power ONLY when the key is in the ON position).
6. Bundle the excess cabling with the supplied zip ties and store/secure, making sure to not interfere with vehicle pedals and other mechanical devices.

True Ignition (IGN)/Not Accessory (ACC) must be connected on all VBUS Installs

Possible FUSE Panel Locations

*Example of the back side of a typical Ignition Switch.*
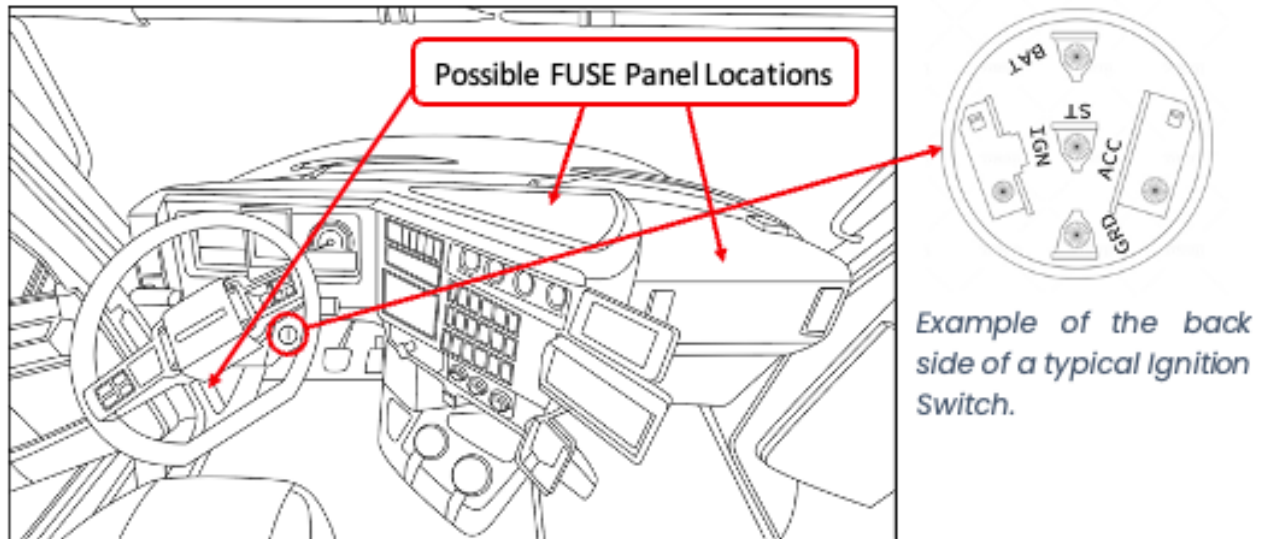
A true Ignition signal (Not ACC) is usually available either on back of the Ignition Switch or in the fuse panel typically on the passenger side of the dash.
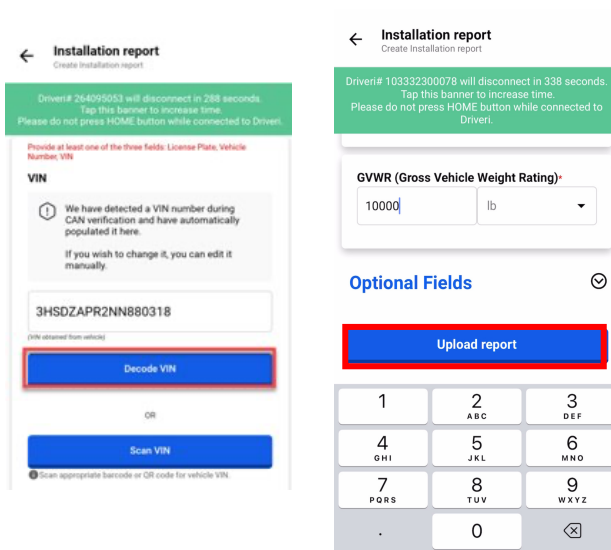
Note: Special cable connections such as RP1226 already have ignition internal to the cable so do not require an external IGN connection.

Step 4: Verify Driver•i Installation

1. Tap "**Pair Driver•i Device with this Vehicle**" button and fill in requested vehicle information.
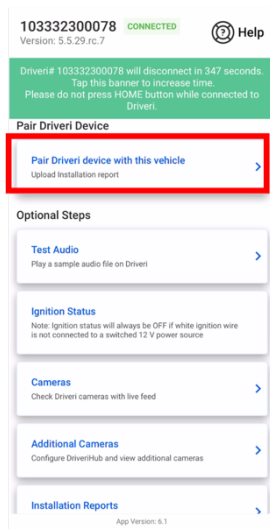
2. Fill out Vehicle information. Once complete, tap the "**Upload Report**" button.

3. You may follow up by testing video feed and audio.

a. When checking cameras with live feed, ensure the outward view captures no more than the upper edge of the vehicle hood. Then ensure inward camera captures the driver's head, left shoulder and lap area if possible.
b. To finalize tap "**Close Connection and Reboot Driver•i**" button. This will cause the installation report to be uploaded.
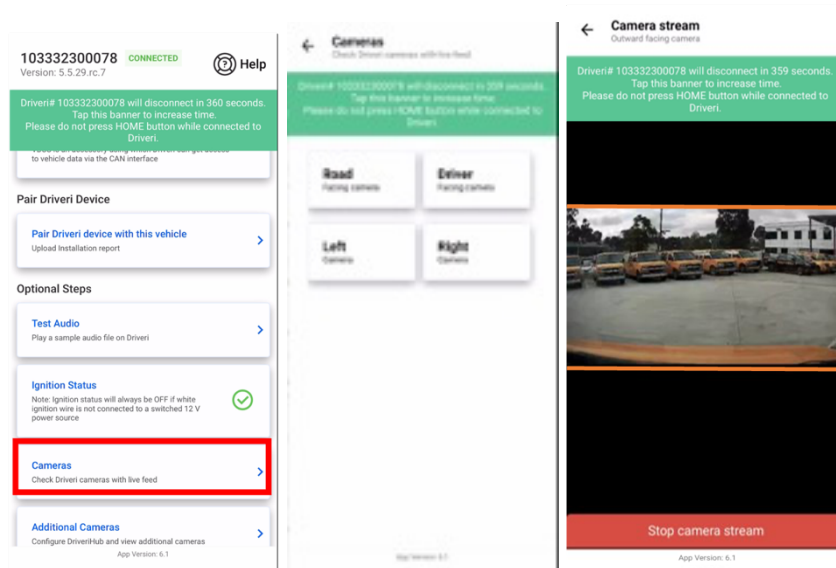
Note: This version does not support CAN at this time. CAN bus will fail on the Installer App.

D-450 LED Indicators

LED 1 Status (Left-side LED)	LED 2 Status (Right – side LED)	Description	Possible Solutions
Flashing **RED**	OFF	Device is booting up and flashing RED should last for 15 seconds.	N/A
OFF or solid **RED** or flashing **RED** for more than 15 seconds	OFF	There is an error	Please contact support
GREEN	**GREEN**	Privacy mode is OFF. Inward camera is ON and recording.	N/A
GREEN	RED	Privacy mode is ON. Inward camera is OFF and not recording.	N/A
GREEN	OFF for more than 15 seconds	There is an error	Please contact support

Note: If driver-facing camera is disabled, LED 2 will always be RED. Privacy Mode is activated when the vehicle speed is 0 MPH for 3 to 4 minutes. The Camera is ready to record after the 25 seconds boot-up time. After ignition key/vehicle is OFF, camera recording is based on "Recording Options" set by the Safety Manager.

For questions or escalations, please visit Netradyne Support at www.netradyne.com/support

Email: support@netradyne.com Phone: (833) GRN-ZONE or 833-476-9663