netradyne

Driver•i D-215 Quick Installation Guide

Supports VBUS and Non VBUS Installs

May 2024 Version 2.3

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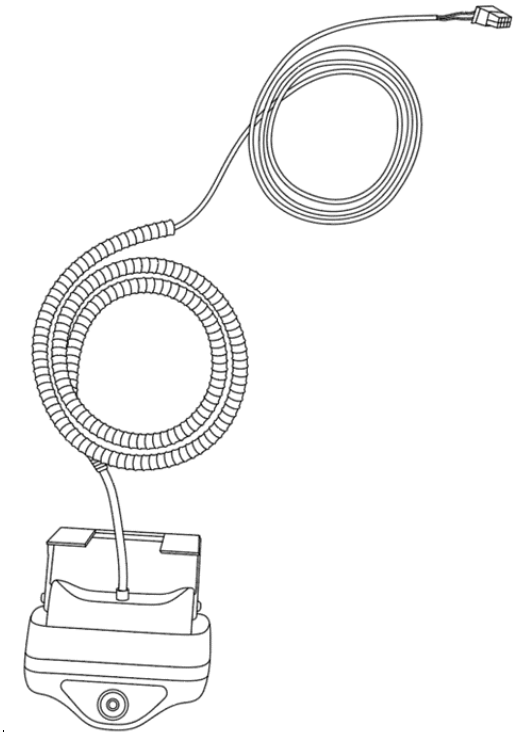
D-215 Quick Installation Guide

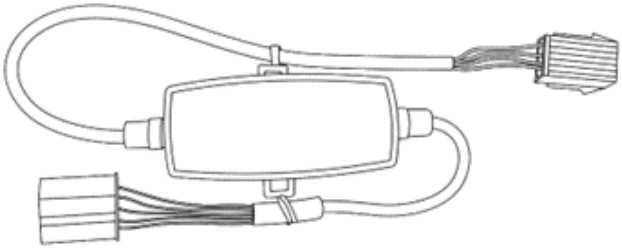
This document serves as a Quick Installation Guide for Field Engineers to assist them with the installation of the Driver•i Device. It includes information that is pertinent to both VBUS and non-VBUS Installations.

Pre-Requisites

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



D-215 Driver•i Camera (QTY: 1)



Power/CAN Module (QTY: 1)

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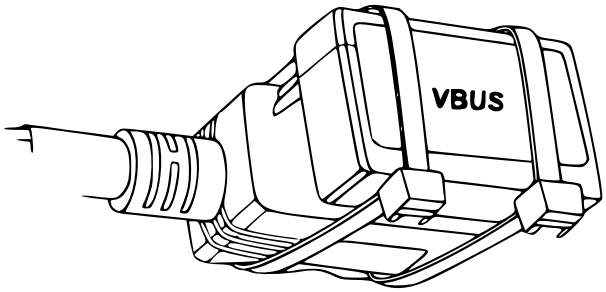
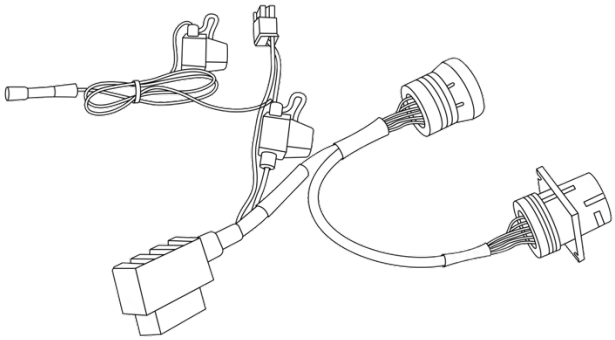
99.9% Alcohol Wipes (QTY: 2)

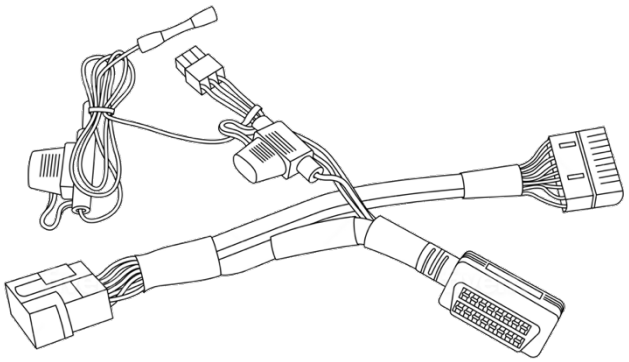


VBUS Adapter, (used for CAN data connection to vehicles) must be secured with 2 zip ties to OBDII port on vehicle specific cables.

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



J1708 Power Adapter Cable - EZJ1708EO1



OBDII Power Adapter Cable - EZOBDIIEO1

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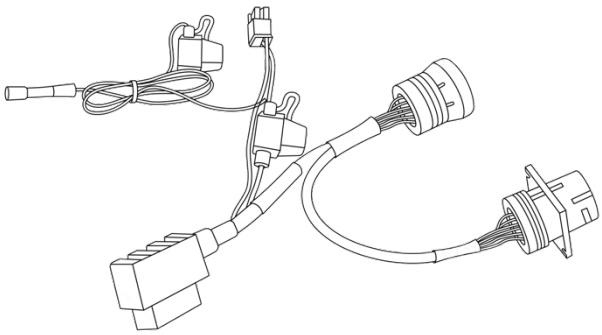


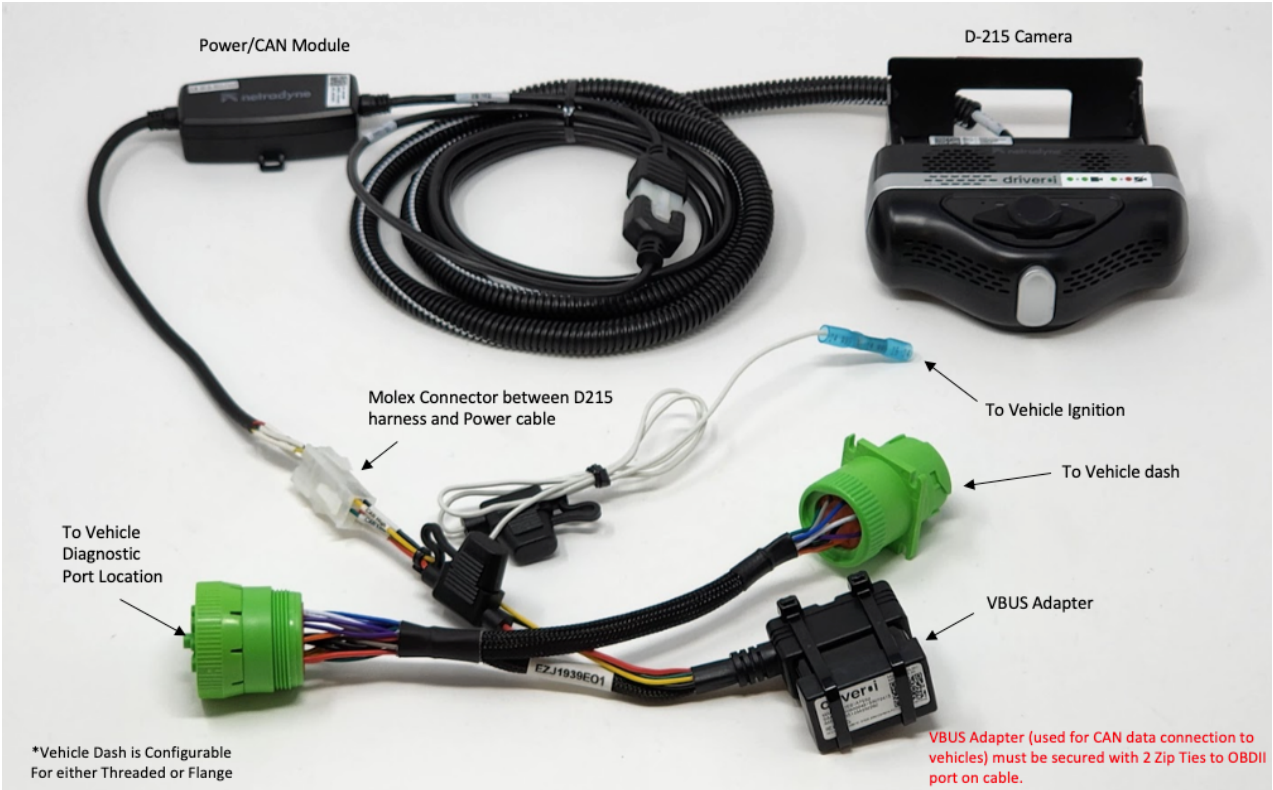
J1939 Power Adapter Cable -EZJ1939EO1

Tools Required:

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

Driver•i D-215/VBUS Connectivity Outline

The snapshot here details the connectivity process between Driver•i Device and VBUS.



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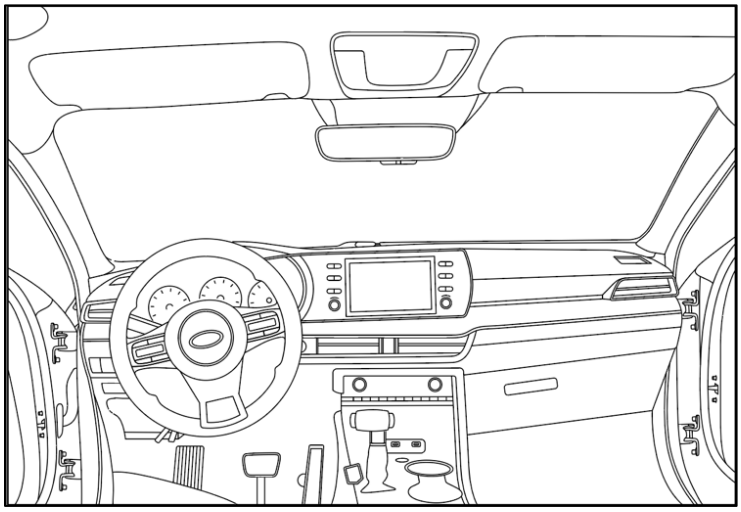
Step 1: Mount the Driver•i Camera

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. Place within the windshield wiper swipe zone as close to vehicle centerline as possible.

   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.

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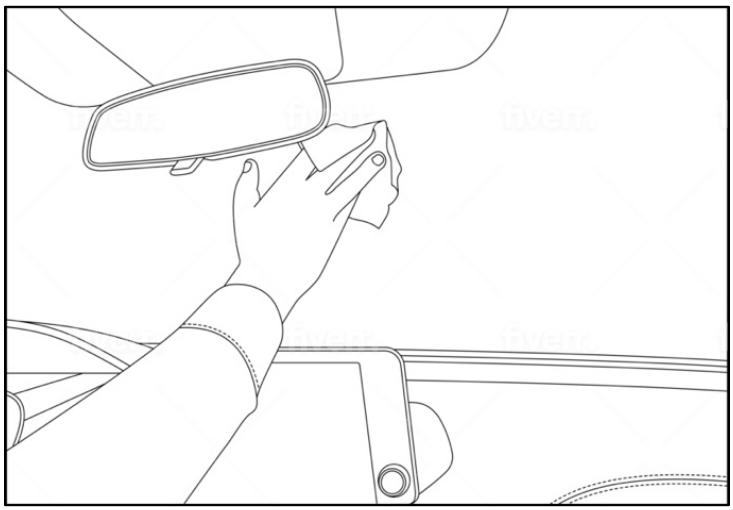
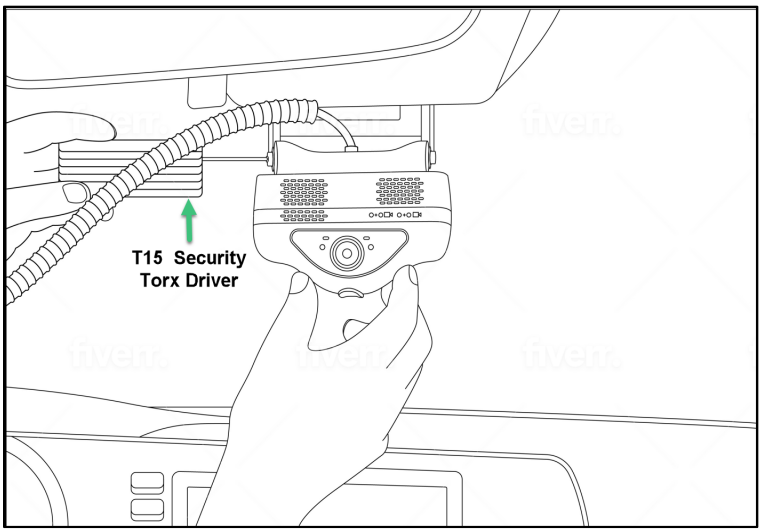


3. Remove backing seal from two-way tape on the underside of mounting bracket. Attach the mounting bracket to windshield. Place the mounting bracket within the windshield wiper swipe zone. Ensure it is as close to the vehicle centerline as possible.
4. Use a **T-15 Security Torx Driver** to loosen **Driver•i 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.

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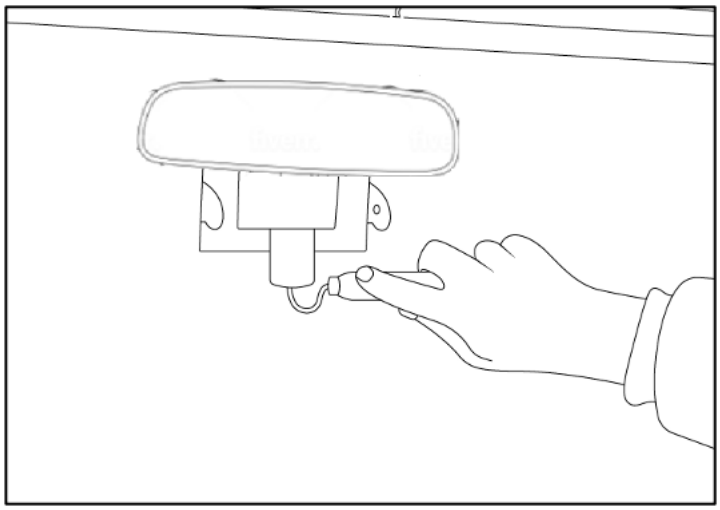
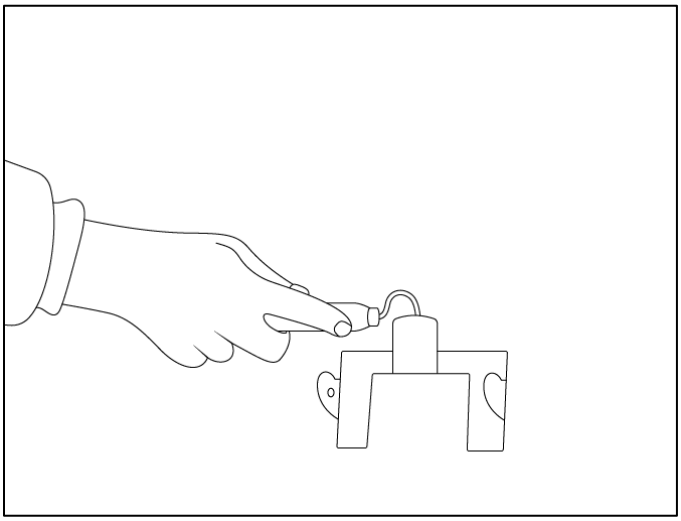


6. Picture below represents the preferred mount orientation on vehicles with no rear-view mirror or other obstructions. (mostly class 6 to 8, large vehicles)



7. Reattach **Driver•i Device** to the mounting bracket using a **T-15 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.

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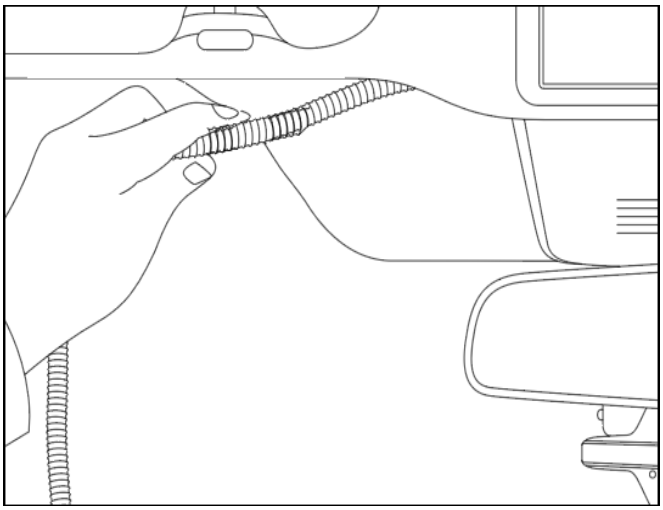
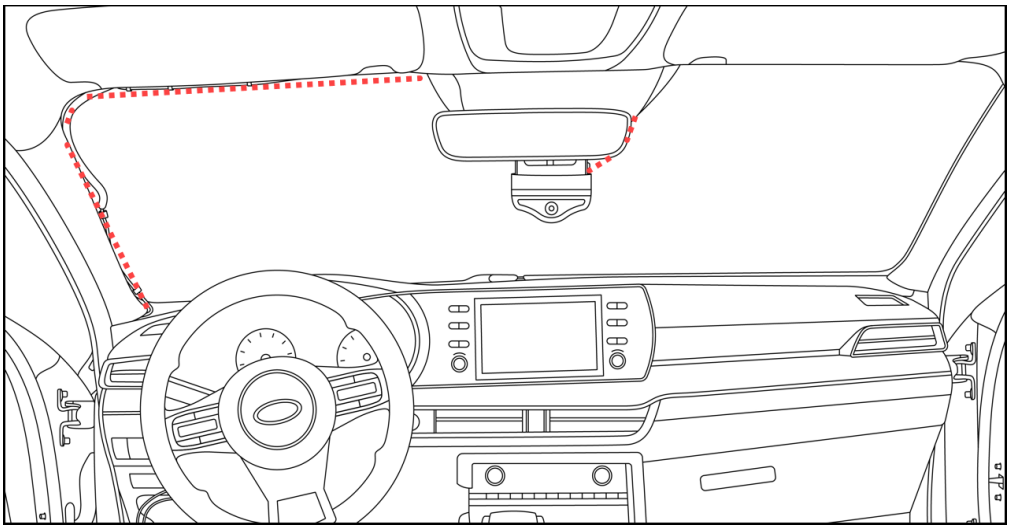


- Secure the cables using zip ties. Ensure the cables and zip ties do not interfere with the deployment of any side airbags.
- From the bottom of windshield side pillar, run the power cable behind dash panels as needed toward the diagnostic port or connection point (example: J1939 9-pin, J1708 6-pin,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



Note: GPS module is internal on the D-215

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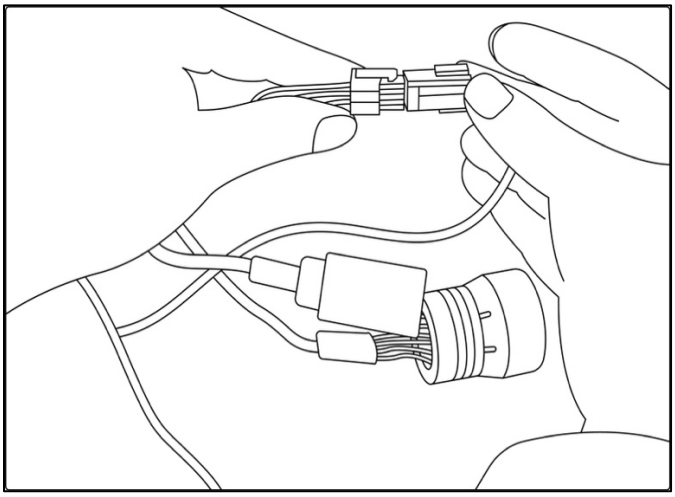
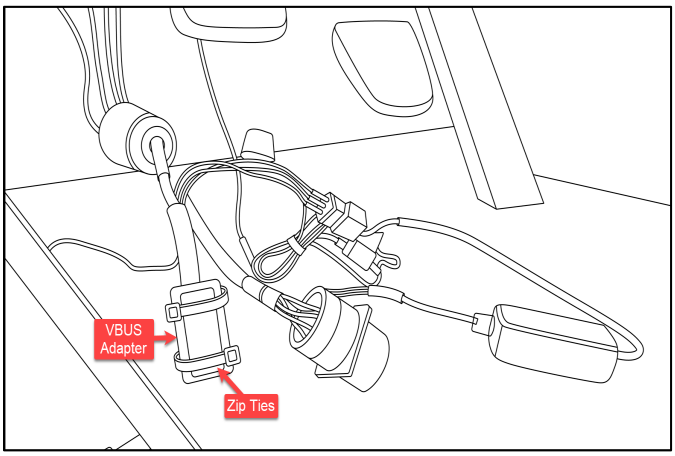
Step 4: Connect Driver•i and VBUS Adapter

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

1. Ensure **Driver•i Device (D-215)** Camera cable is connected to the Power Adapter.



2. **For VBUS installations Only**, plug the VBUS device into the right angle OBDII port on the VBUS equipped Vehicle Power Adapter Cable and secure with zip ties.



3. Remove the vehicle's diagnostic connector (example: J1939 9-pin) from the original mounting location (example: kick panel).
4. 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

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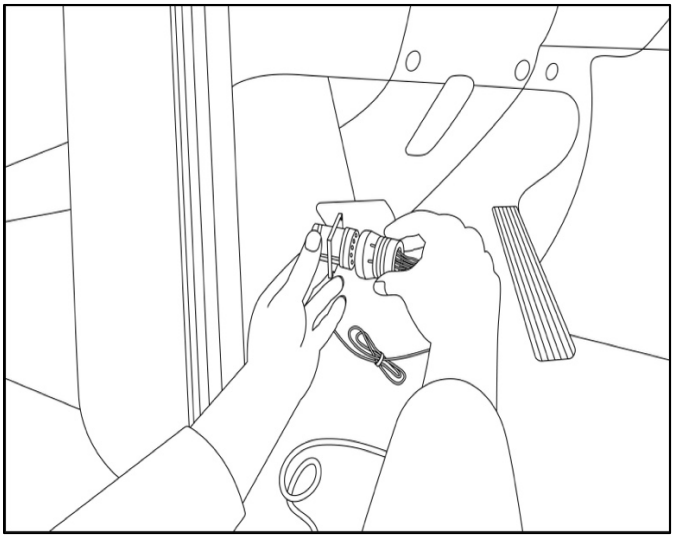
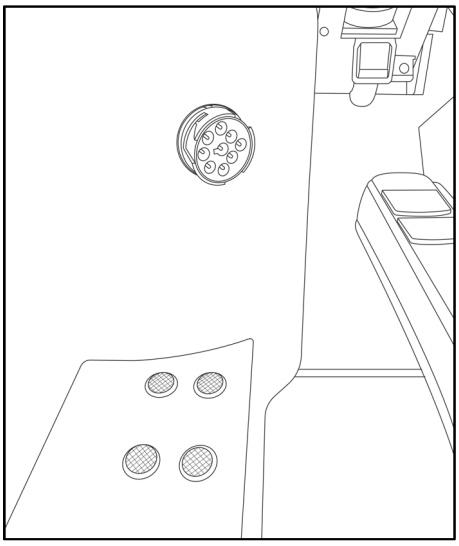
vehicle’s male diagnostic port (example: J1939 ,9-pin).



5. Install the male connector of the Vehicle Power Adapter Cable into the vehicle diagnostic port's original mounting location.



6. 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).
7. Bundle excess cabling with supplied zip ties and store/secure, making sure to not interfere with vehicle pedals and other mechanical devices.

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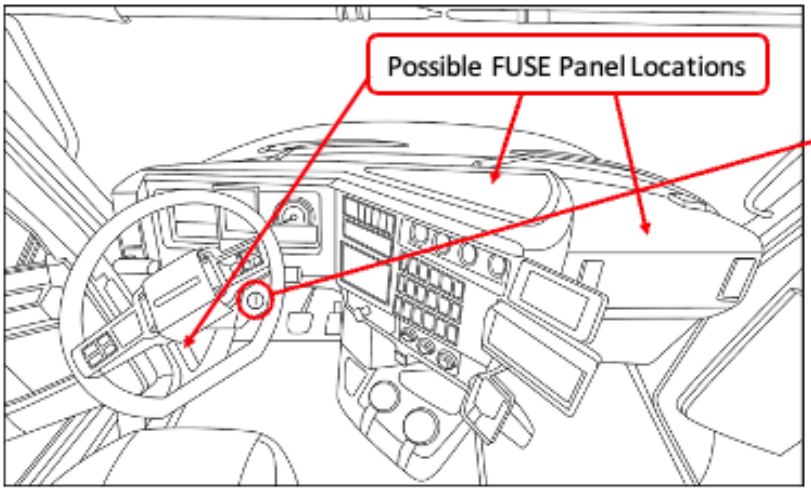
True Ignition (IGN)/Not Accessory (ACC) must be connected on all VBUS Installs



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 /VBUS Installation

Note: Vehicle must be running to pair VBUS

Download the Netradyne "**Driver•i Installer App**" and login using credentials provided by Netradyne or its customer.

Turn the vehicle ignition ON with engine running, verify both Driver•i Device and VBUS LEDs are illuminated.

1. Select **Driver•i Device** (main device) and follow the on the screen instructions to connect. Ensure Diagnostics displays green check marks for the device. If a red **X** is shown for any components, tap the retry button. Please contact support if a red **X** persists. Otherwise, you may continue to pair the device.

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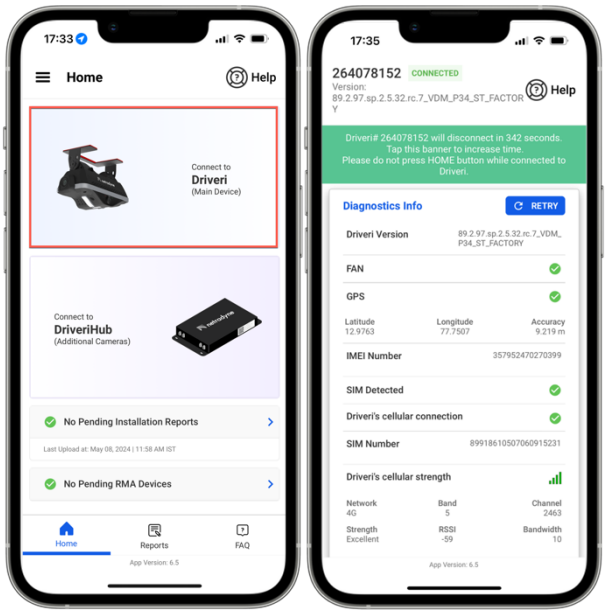
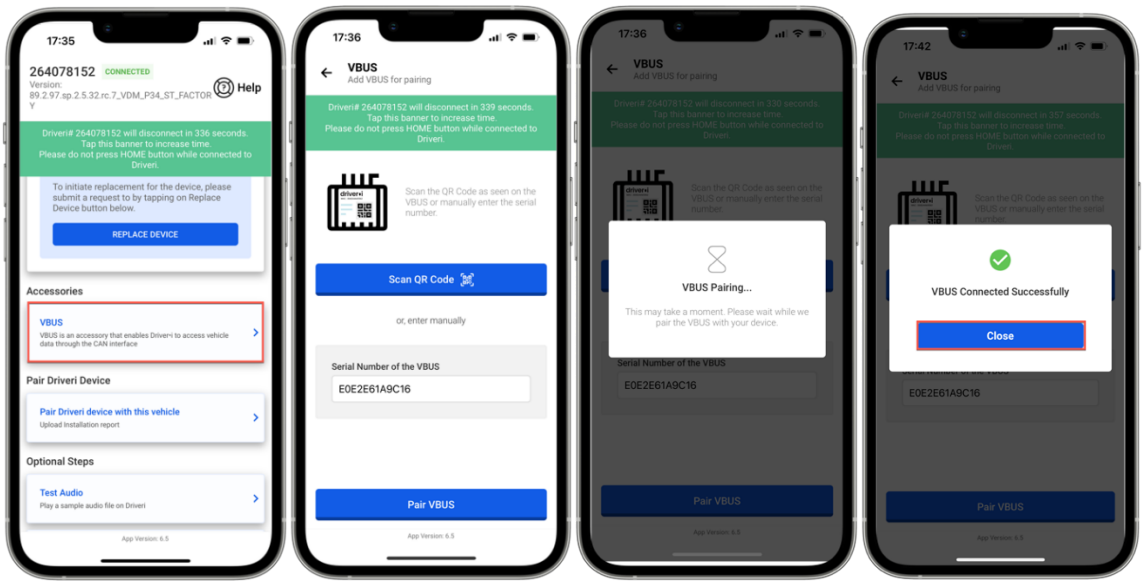


Note: Step 2-4 are for VBUS installs only. Proceed to step 5 if VBUS is not applicable.

2. Select **VBUS** under accessories and scan the QR code from the **VBUS** device and select pair **VBUS**. The pairing process is displayed on the screen.
3. If the **VBUS** pairs successfully you will see a green check mark along with the **VBUS** serial number.



4. Press the back arrow to proceed with Vehicle association. Tap "**Pair Driver•i Device with this Vehicle**" button and fill in requested vehicle information.

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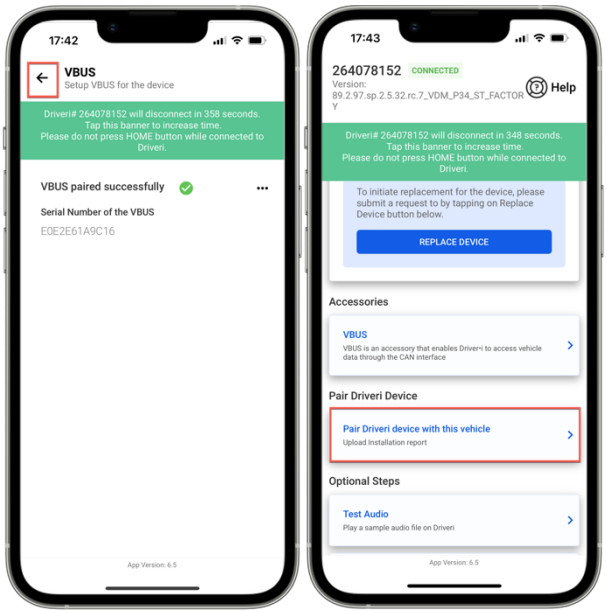
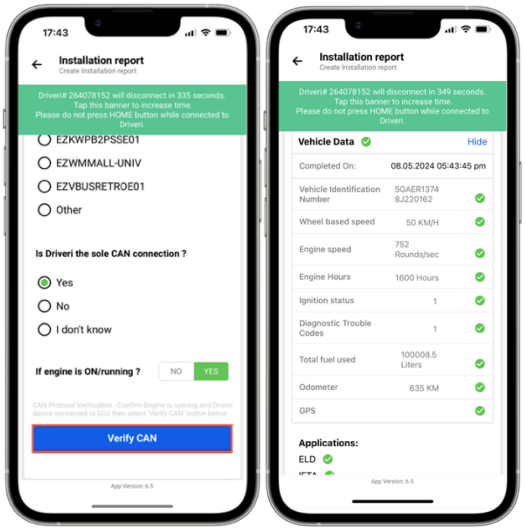


5. **This step is exclusively for VBUS installations.**
    a. Enter requested vehicle connection information and tap "**Verify CAN**".
    b. Verify VBUS CAN Data is being detected indicated by green checkmarks.
        i. A green checkmark in the ELD field indicates all ELD data is present.
        ii. Verify displayed VIN matches Vehicle VIN. If they do not match you need to manually enter the vehicle VIN.



6. Fill out Vehicle information. Once complete, tap the "**Upload Report**" button.

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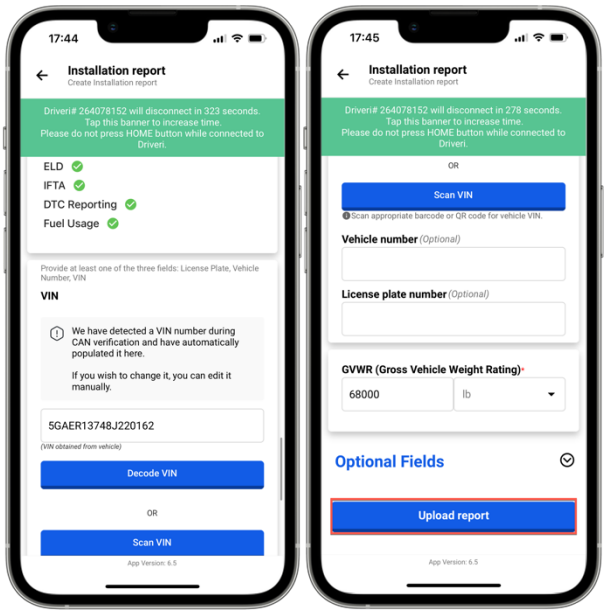
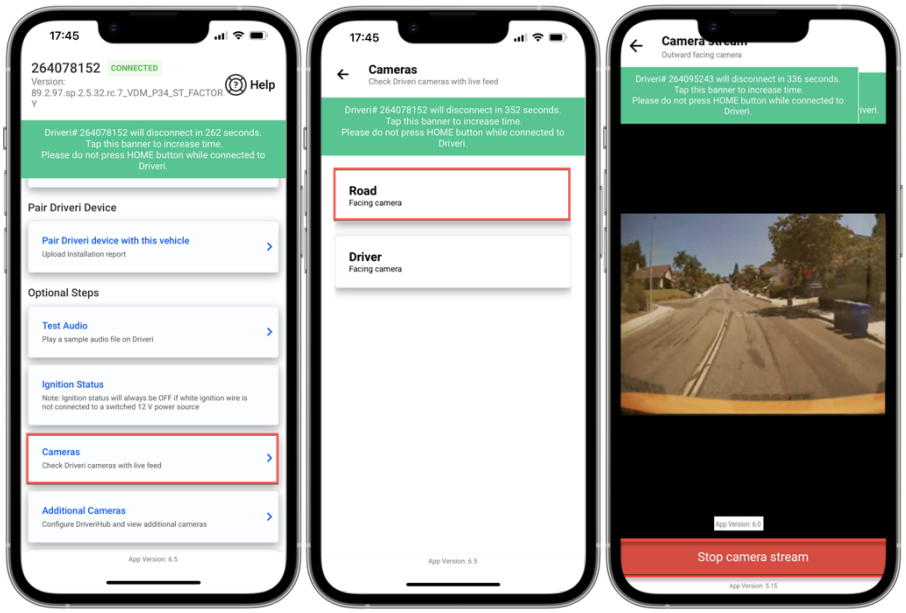


7. You may follow up by testing video feed and audio.
    a. When checking cameras with live feed, ensure the outward view captures no more than the upper edge of the vehicle hood. Then ensure inward camera captures the driver's head, left shoulder and lap area if possible.
    b. To finalize tap "**Close Connection and Reboot Driver•i**" button.



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D-215 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. The 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.

VBUS LED Indicator: Blinking (any Color) Normal Operation. Solid Red indicates an error state, device needs to be replaced (**Refer VBUS LED Behavior for more details**).

VBUS LED Behavior

LED Behavior

During normal operation the combination of LED color and number of blinks indicates the data and cellular status as described below:

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Color	Data Status
White	No vehicle data, time sync, or GPS fix
Cyan	Has vehicle data, no time sync or GPS fix
Blue	Has vehicle data and time sync, no GPS fix
Green	Has vehicle data, time sync, and GPS fix
Yellow	Has time sync and GPS fix, but no vehicle data
Red	Firmware update in progress

Number of Blinks	Cellular Status
7 blinks	Turning on modem
6 blinks	Searching for a network
5 blinks	Loading GPS ephemeris
4 blinks	Setting up cellular connection
3 blinks	Connecting to the server
2 blinks	Connected and sending data
1 blink	Sleep

LED Light

While starting up, the LED on the V5 is solid blue.
If the LED stays solid blue for longer than a minute the device may be damaged and need to be repaired/replaced, contact us for options.

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

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