

GEOTAB[®]

Grumman LLV

Installation guide for Grumman LLV.

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 TOOLS:

- [1/4" Metric Socket Set with Ratchet or Driver](#) (1)
- [Multi-Bit Screwdriver with Assorted Bits](#) (1)
- [Flush Cutter](#) (1)
- [Cable Ties](#) (1)
- [DMM](#) (1)

 PARTS:

- [GO9](#) (1)
- [HRN-CL06T4U GMCCC Harness](#) (1)

— Warnings and Considerations

- ⚠ **WARNING!** Only use Geotab telematics devices with Geotab-approved harnesses acquired from Geotab-authorized channels. Use of non-Geotab harnesses from unauthorized channels can cause serious safety risks, including fire, and can lead to serious personal injury and/or damage to the vehicle.
- ⚠ **IMPORTANT:** Always use a vehicle-specific harness when offered by Geotab or the vehicle manufacturer to avoid possible GO device damage. Some vehicles have multiple diagnostic connectors to choose from when installing a GO device.
- ℹ For more information on Geotab harnesses and adapters, see [Harness Identification and Application](#) & [Harness Assessment Cheat Sheet GUIDE V2.0](#)
- ✦ If a longer length is required to facilitate installation, connect a straight harness to a T-harness. Ensure that the total harness length does not exceed 2 meters (or 6.5 feet). Any two harnesses that exceed 2 meters may compromise the integrity of the data and cause issues with the vehicle's Engine Control Unit (ECU).
- ℹ For more details on compliance information and applicable products, contact your Authorized Reseller.

— Preparing For Installation

- ⚠ Some installations are not straightforward and must be completed by an Authorized Installer to ensure a secure installation.
 - ⚠ Ensure you use enough cable ties to secure both the device and the harness to the vehicle. An unsecure device can result in poor electric and/or data connections, which can lead to short circuits and fires or cause malfunctions of vehicle controls that can result in serious personal injury or significant damage to the vehicle.
 - ℹ Some examples requiring professional installation from an Authorized Installer are:
 - The OBD port location is such that the device could protrude or interfere when entering or exiting the vehicle, or located where it could be inadvertently kicked or bumped during vehicle operation. The device isn't fully secured and may be able to vibrate loose or get kicked or knocked. An electrical harness or additional wiring is required.
 - Vehicle mounting modifications are required to secure the device, such as removing of panels. The OBD connector has been deformed/damaged or there is physical damage visible to the electrical wiring.
 - The device does not power on and beep six times when first installed.
 - The installer questions their ability to complete a secure installation according to these instructions.
-
- ⚠ Do not attempt to install, reconfigure or remove any product from a vehicle while the vehicle is in motion or otherwise in operation. Any installation, configuration, or removal must be done only in stationary vehicles that are securely parked.



① Before installing, record the following:

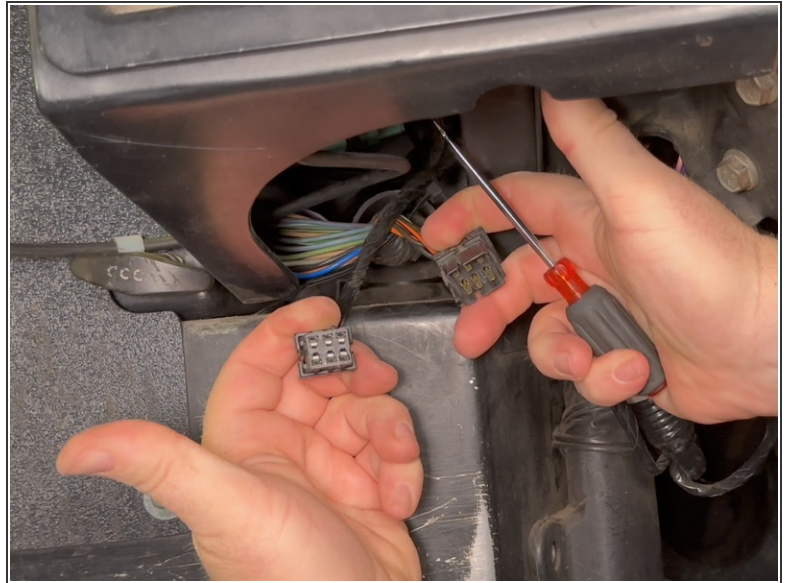
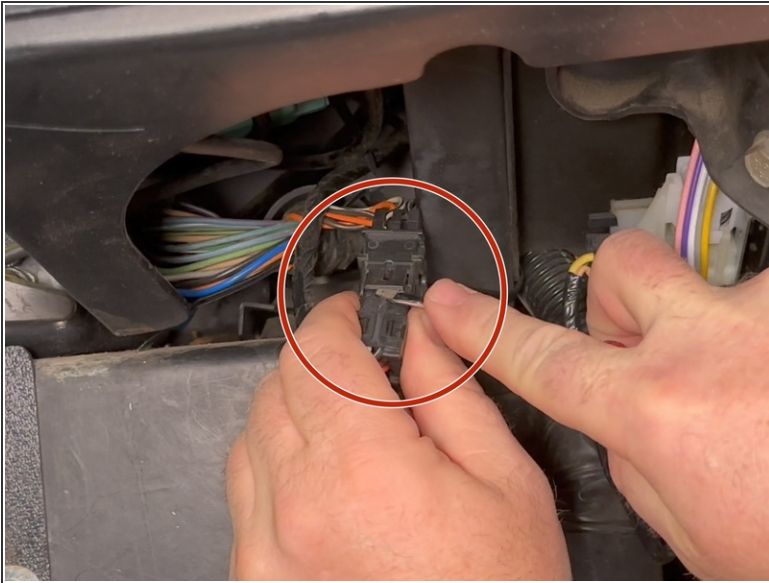
- GO device serial number (located above the barcode on the device label)
- Odometer reading
- Vehicle or asset name
- VIN (vehicle identification number)

— Grumman LLV



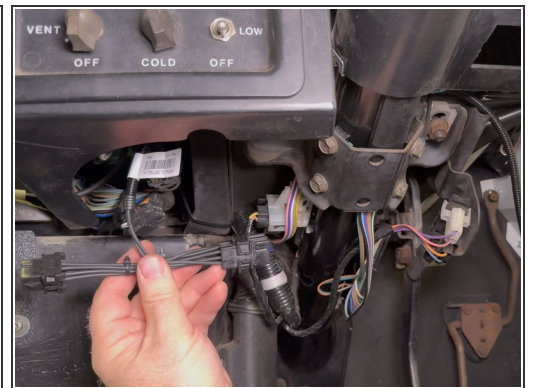
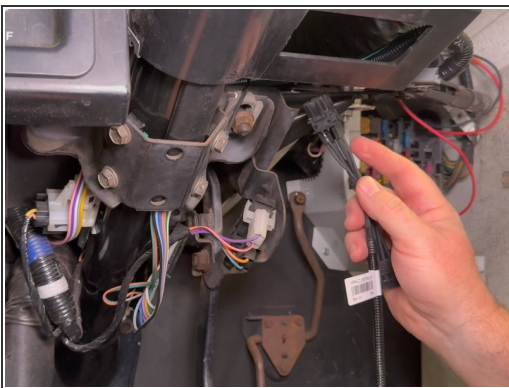
- Locate the ECM connection point on the driver side of the vehicle.
 - ☑ ***The ECM connector should be located to the left of the steering column.***

— Disconnect the ECM connector



- Using a small flat blade screwdriver, pry up on the locking tabs to release the ECM connector.
- Pull the 2 connectors apart.

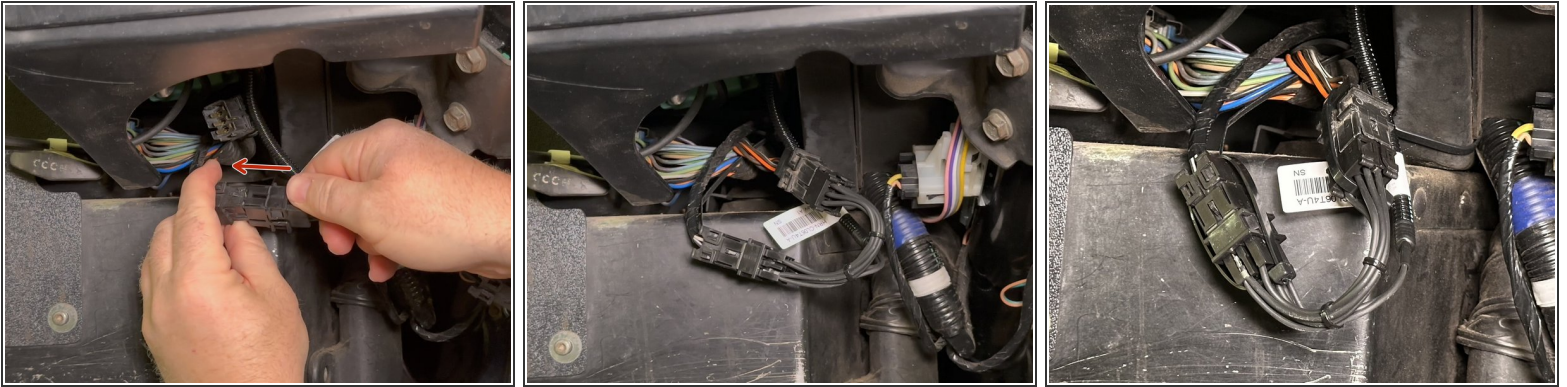
— Cable Routing



- Route the HRN-CL06T4U Harness over the steering column

⚠ Ensure to avoid moving parts and pinch points.

— HRN-CL06T4U Harness Connection

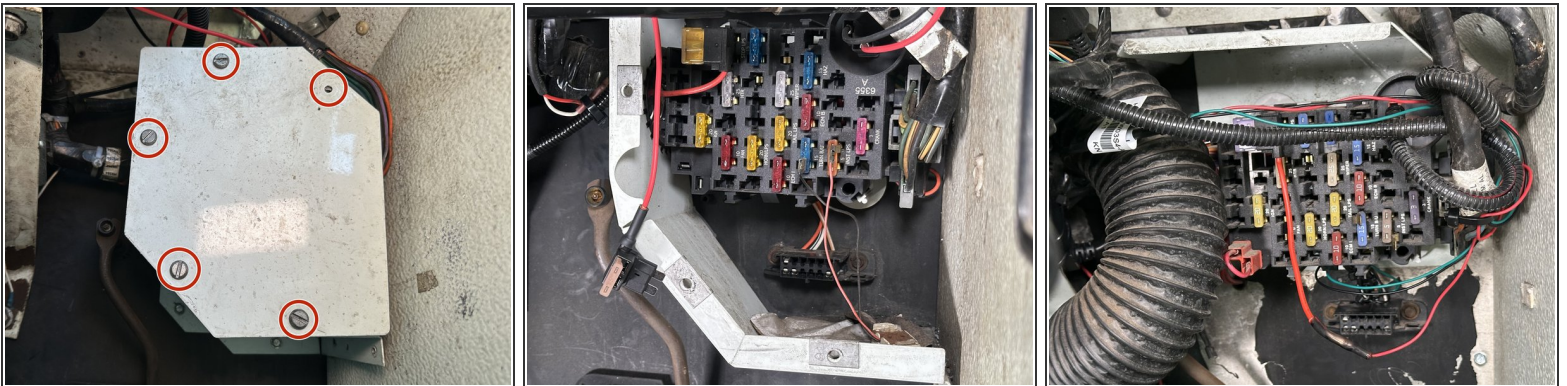


- Connect the HRN-CL06T4U Harness to the ECM connectors.

⚠ **Ensure both connectors lock into place.**

⚠ **Secure harness as needed with cable ties!**

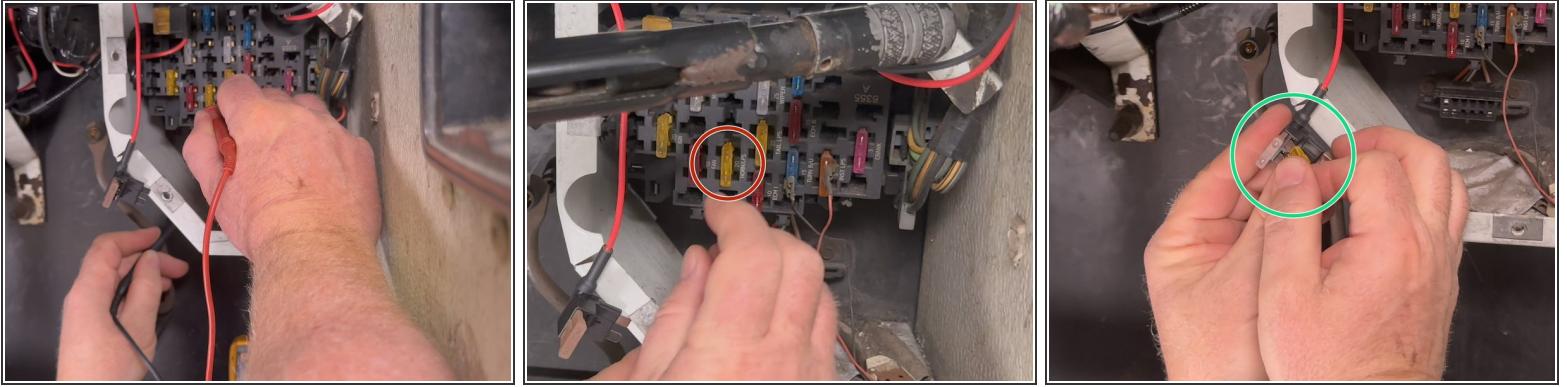
— Fuse Panel Variations



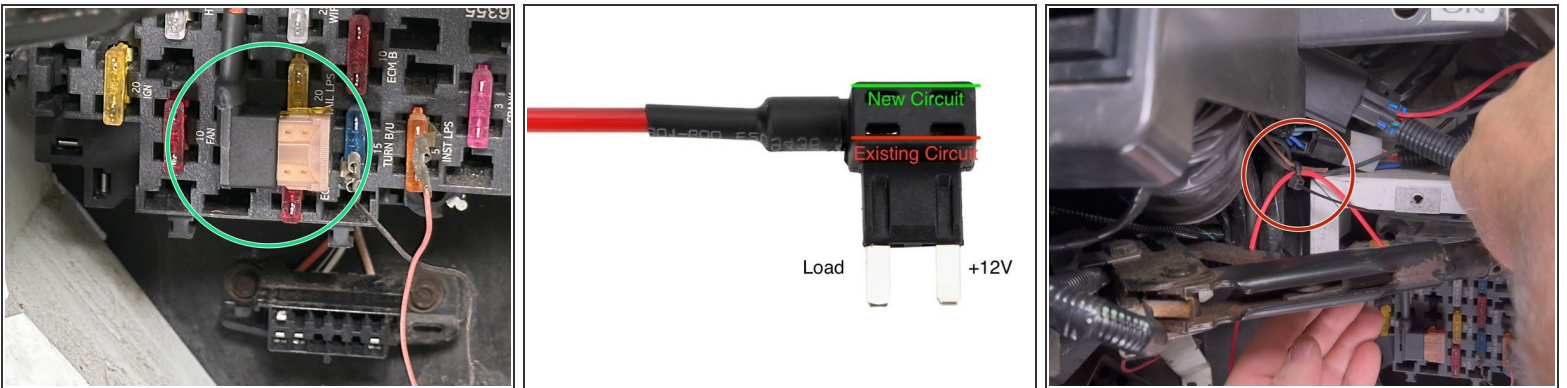
❗ **The 3 images show the different variations of fuse panels that you may find in these vehicles.**

- Some fuse panels may have a cover that needs to be removed in order to access the fuse panel, while others may already be open.

— Fuse Panel - Constant power connection



- Using a multimeter, test the HORN/LPS fuse to ensure constant power is available.
- Remove the HORN/LPS fuse.
- Place the removed HORN/LPS fuse into the add-a-circuit fuse tap.



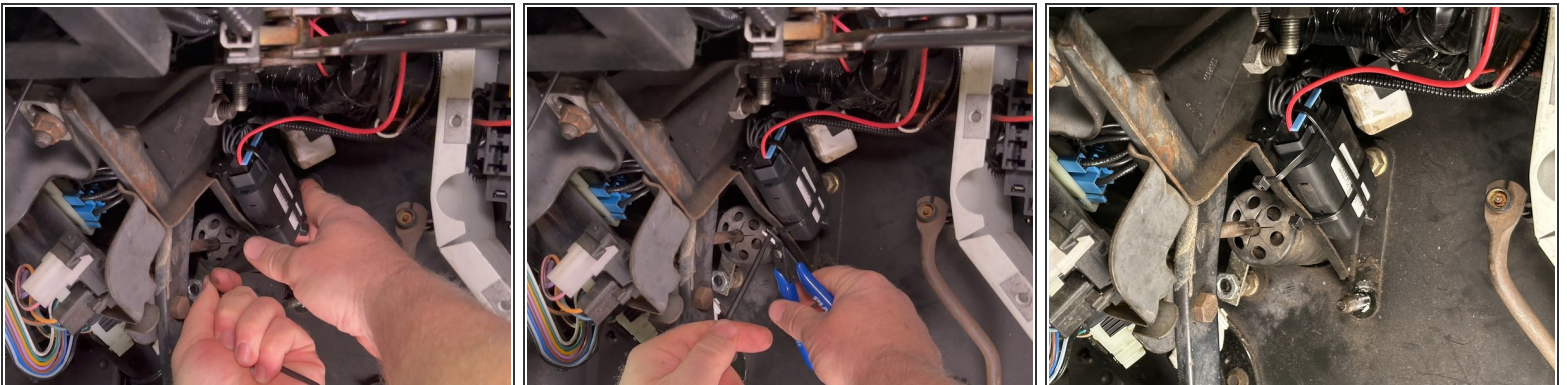
- Connect the add-a-circuit fuse tap to the HORN/LPS fuse slot in the fuse panel.
- ⓘ ***Make sure you connect the add-a-circuit fuse tap in the correct direction. Refer to the diagram.***
- Secure the Red constant power wire with cable ties.

— Connect the GO Device to HRN-CL06T4U Harness

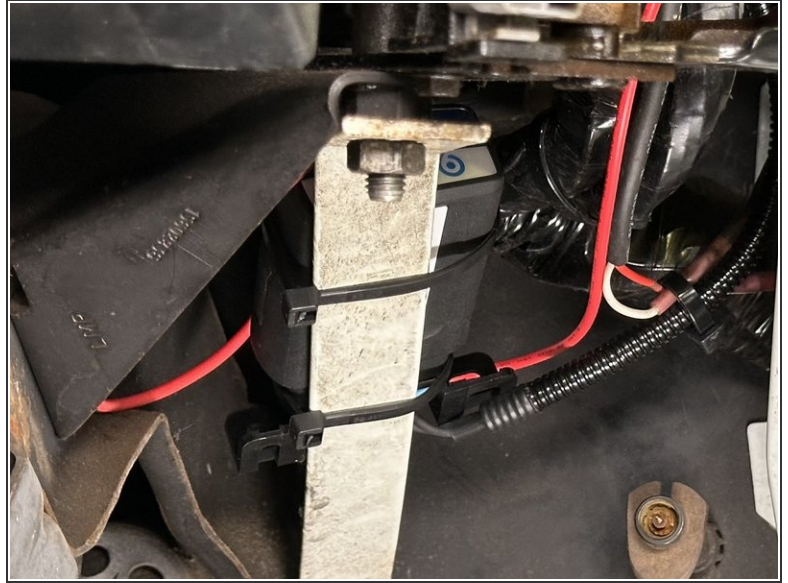
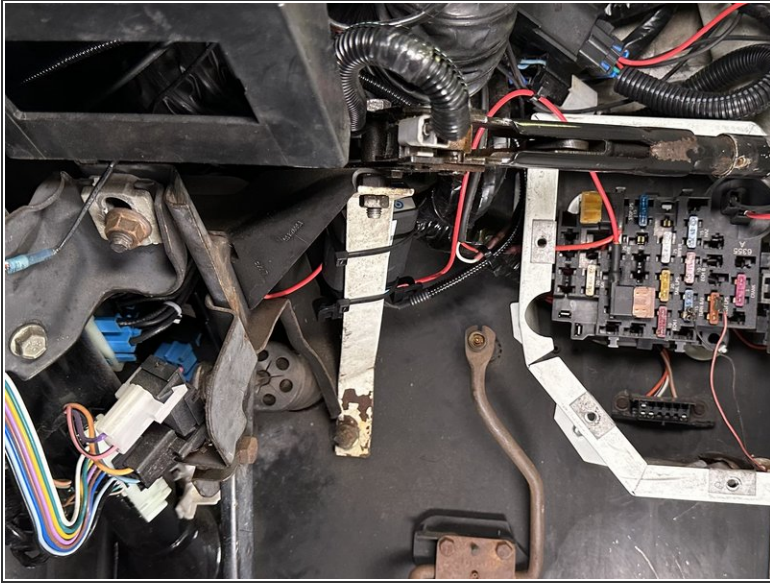


- Connect the GO Device to the female 16-pin connector on the HRN-CL06T4U Harness.
- Secure the connection with a cable tie.

— Mount the GO Device



- Mount the GO device with the bottom of the device facing away from the metal bracket as shown.
- ⚠ Secure the GO device to the vehicle using 2 cable ties.
- ⚠ Trim any excess cable tie using flush cutters.



- ❗ ***Some vehicles may have an additional bracket under the dash. Mount the GO device as shown.***

— Start the vehicle



- Start the vehicle

— Harness cleanup



- Secure the harness using cable ties to ensure there is no obstruction to the driver, and that the harness does not come into contact with any moving parts.

⚠ Ensure the harness does not obstruct the operation of the parking brake.

— Attention

- ① If installing an **IOX** accessory please continue using the correct guide from [here](#).



⚠ Start Vehicle.

- ☑ Verify LED pattern.
- ☑ The device emits **2 quick beeps** every 60 seconds during set-up. Once all three LEDs turn solid you will hear **10 quick beeps**.

— Verify Installation

- ⚠ All in-vehicle devices and related cabling must be securely fastened and kept clear of all vehicle controls, airbags, and gas, brake and clutch pedals.
- ⚠ This requires the use of a cable tie when securing the device or any extension harness to the OBD connector, securing both sides of the harness. If you do not use a cable tie, vibration in the vehicle can lead to a loose connection which could cause the vehicle's engine computer to fail, causing potential loss of vehicle control and serious injury.
- ⚠ Inspect devices and cabling regularly to ensure all devices and cabling continue to be securely attached.
- ⚠ If at any point after an in-vehicle device is installed a warning light illuminates on the vehicle dash or the vehicle stalls or has a marked drop in performance, shut off the engine, remove the device, and contact your reseller. Continuing to operate a vehicle with these symptoms can cause loss of vehicle control, and serious injury.

— MyInstall (Public)

- ① **Navigate to one of the following:**
 - ✦ [MyInstall \(Public\)](#)
 - ✦ [MyInstall \(Fed Gov\)](#)
- ① **Note that the following steps are for the public version of MyInstall.**
 - ✦ If you have an installer [MyAdmin account, use this link](#)
 - ✦ This link is also accessible via the MyInstall Public page.

Installation

Access the full install experience.

Log in

Tell us who you are

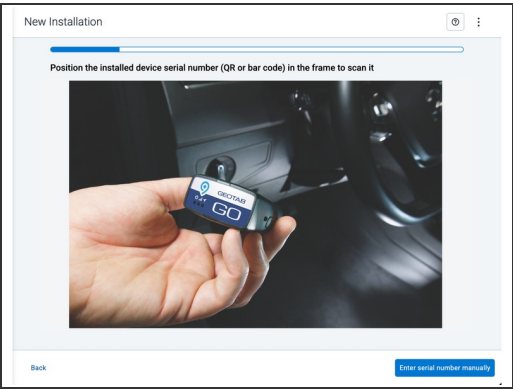
First name*

Last name*

Company*

Continue

● Enter the installer information.



New Installation

Position the installed device serial number (QR or bar code) in the frame to scan it

Enter device serial number

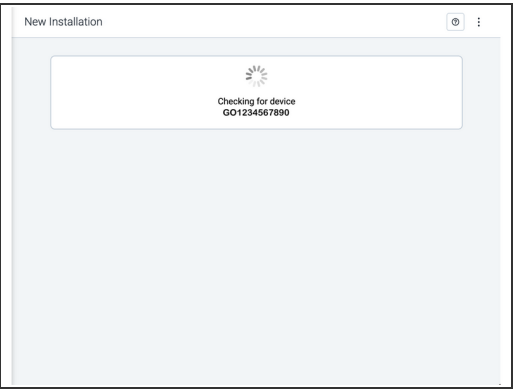
Installed device serial number*

GO1234567890

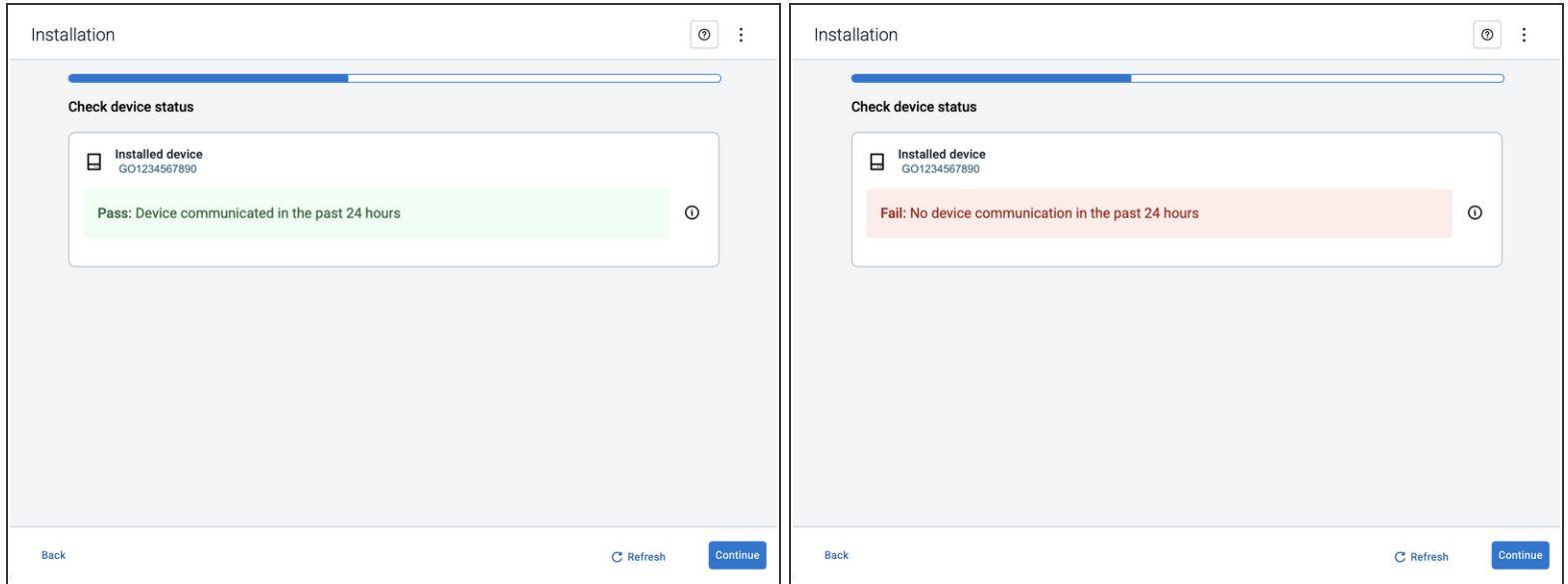
Did you remove an old device?

Close Submit

Back Enter serial number manually



- ❗ Two options are available to enter the device serial number:
 - Scan the device serial number (QR or barcode) using your mobile device.
 - Press **Enter serial number manually**, enter the serial number, and then press **Submit**.
- 🌟 If you are also removing an old device, press **Did you remove an old device?** and then enter the removed device serial number.
- ❗ MyInstall takes a moment to check the device status.



- ❗ Installed device
 - **Pass** – The device has successfully communicated with the network in the last 24 hours.
 - **Fail** – The device has not communicated with the network in the last 24 hours.
- ⚠ If the device status shows as **FAILED**, verify the LED status and turn the ignition / engine off and on again.
- ❗ Press **Refresh** to check the status again.
- ❗ Refer to the [MyInstall User Guide](#) for detailed instructions.

New Installation

Input asset information

Asset type*

Select asset type

Back

Continue

- i

 Under **Input asset information**, select the relevant **Asset type** from the dropdown.
- 📌

 Fields displayed may vary based on the asset and device type.
- Enter information about the vehicle or asset where the telematics device was installed.

New Installation

Input asset information

Asset type*

Vehicle

Asset name*

VIN*

Make

Model

Year

License plate

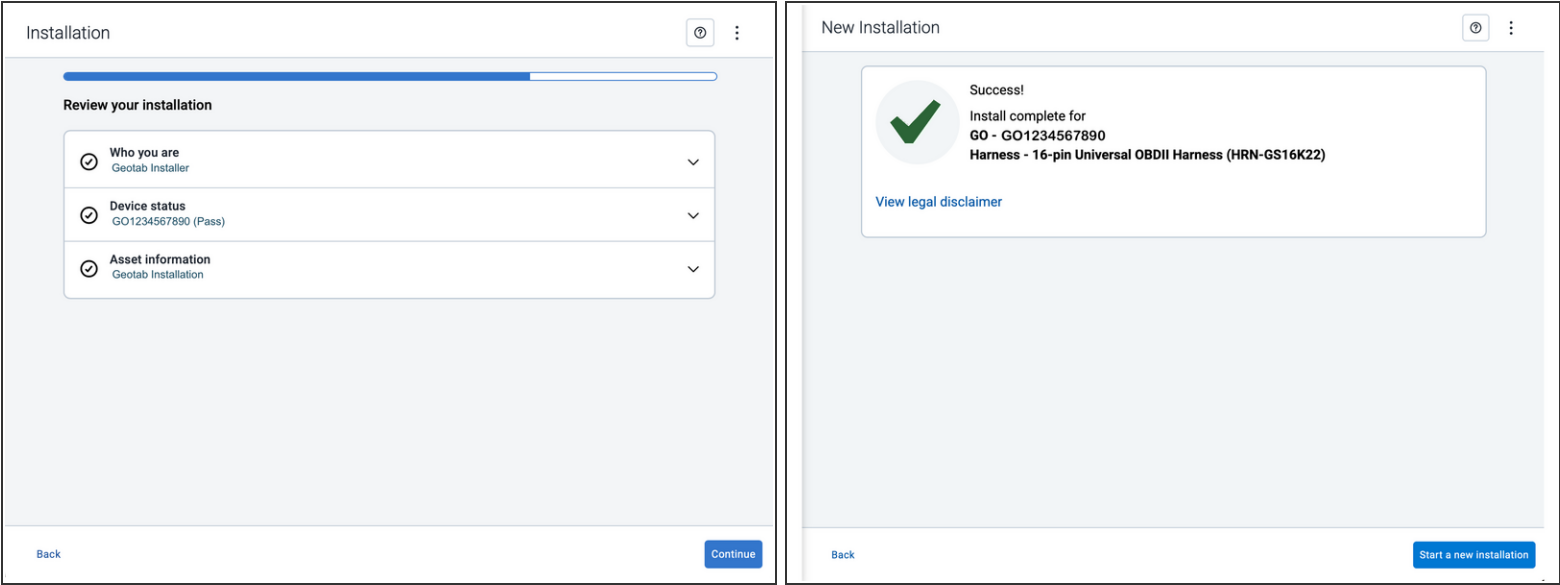
Odometer

Back

Continue

- **Asset name** — Enter the vehicle or asset name. This field is mandatory.
- **VIN** — Scan or enter the vehicle identification number (VIN). For scanning, select the scan icon **[O]** beside the field. This field is mandatory.
- **Make, Model, and Year** — This information will be auto populated when you scan or enter a valid VIN. If it is not autopopulated, enter the information manually. *NOTE: For some vehicle makes and models, the autopopulate option might not be possible.*

- **License plate** — Enter the vehicle license plate.
- **Odometer** (GO device only) — Enter the vehicle odometer, and select the measurement unit (km or miles).
- **Engine hours** (GO device only) — Enter the vehicle engine hours.
- **Camera ID** (GO device only) — Scan or enter the installed camera identification (ID) number. *NOTE: Depending on the camera type, the camera ID number can also be the camera's International Mobile Equipment Identity (IMEI), or serial number. Select the information icon ⓘ to learn more about your camera's ID number.*
- **Work order reference** — If applicable, enter a work reference number that is associated with the installation.



- ❗ Review details by clicking or tapping on any section. If needed, update or refresh any captured information.
- When you are ready to submit, select **Continue**.

— Important Safety Information and Limitations of Use

- ① For the latest version of the Limitations of Use, please visit: <http://goo.gl/k6Fp0w>
- ⚠ **Your in-vehicle devices must be kept clear of debris, water and other environmental contaminants. Failure to do so may result in units malfunctioning or short-circuiting, which can lead to a fire hazard and cause loss or serious injury.**
- ① This product does not contain any user-serviceable parts. Configuration, servicing, and repairs must only be made by an authorized reseller or installer. Unauthorized servicing of these products will void your product warranty.
- ① The simplified EU declaration of conformity referred to in Article 10(9) shall be provided as follows:
 - Hereby, Geotab (Address: 2440 Winston Park Drive, Oakville, Ontario L6H 7V2, Canada, Phone number: 1 (877) 436-8221) declares that the radio equipment type 'telematics device' is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available [here](#).
- ⚠ **WARNING:** [Cancer and Reproductive Harm](#)