GO9 RUGGED

This guide will take you step by step through the installation of a GO9 RUGGED with the HRN-RW03K4 harness.

Written By: Alkesh Dhak



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INTRODUCTION

[video: https://www.youtube.com/watch?v=Y1KD1w70RFk]

This guide describes how to install a GO RUGGED device using the HRN-RW03K4, intended for generic engines with no available ECM connector.

Professional Installation Required — Installation of the HRN-RW03K4 requires the installer to have sufficient technical knowledge and expertise for off-road equipment installation, i.e. Certified Geotab® Installer certification or equivalent.

WARNING! Read important related Safety Information and Limitations of Use following these installation instructions. The GO device must be disconnected from the vehicle prior to harness/IOX installation. Post harness/IOX installation, connect the GO device, read and follow all instructions and warnings to prevent serious injury and/or vehicle damage.

TOOLS:

- Digital Multi Meter (1)
- 1/4" Metric Socket Set with Ratchet or Driver (1)
- Multi-Bit Screwdriver with Assorted Bits (1)
- Cordless Drill (1)
- Assorted Drill Bits (1)
- Professional grade wire crimpers & cutters (1)
- Wire stripper (1)
- Cable Ties (1)

PARTS:

- GO9 Rugged (1)
- HRN-RW03K4 - 3-wire harness kit for GO RUGGED (1)

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— 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 damage to the GO device. Some vehicles have multiple diagnostic connectors to choose from when installing a GO device.

ⓘ For more information on Geotab harnesses and adapters, refer to the 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 (6.5 feet), because this can compromise the integrity of the data and cause issues with the vehicle's Engine Control Unit (ECU).

ⓘ For more details on compliance information and applicable products, contact your Authorized Reseller.

— Preparing For Installation

⚠ Some installations are not straight forward and must be completed by an Authorized Installer to ensure a secure installation.

⚠ An unsecure device installation can cause poor electric and/or data connection that can lead to short circuits and fires or cause malfunctions of vehicle controls that can result in serious personal injury or significant damage to your vehicle.

ⓘ Some examples requiring professional installation from an Authorized Installer are:

- Installation of the GO9 RUGGED requires that the installer have sufficient technical knowledge and expertise for mobile device installation and integration into modern vehicles, i.e. Certified Geotab Installer certification or equivalent.
- Vehicle mounting modifications are required to secure the device i.e. removing of panels, or the OBD connector has been deformed/damaged or there is any physical damage visible to the electrical wiring.
- The device does not beep six times and power on 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. All installation, configuration or removal must be done only in stationary vehicles which are securely parked.

⚠ Attempting to service devices while the vehicle is in motion could result in malfunctions or accidents, leading to death or serious personal injury.



- Before installation it is recommended to document the following:
  - Record GO Rugged device serial number
    - Found above barcode on device label on the bottom of the GO Rugged device
  - *Record Odometer / Engine Hours*
  - *Record Fleet Alias/Number/ID*
  - *Record VIN (vehicle identification number)*

— Attention

- If installing an **IOX** accessory please continue using the correct guide from here.

— Identify mounting location



- Identify the mounting location of the GO Rugged. The location must be a solid part of the vehicle.

ⓘ *Ensure the device has a good line of sight to the sky.*

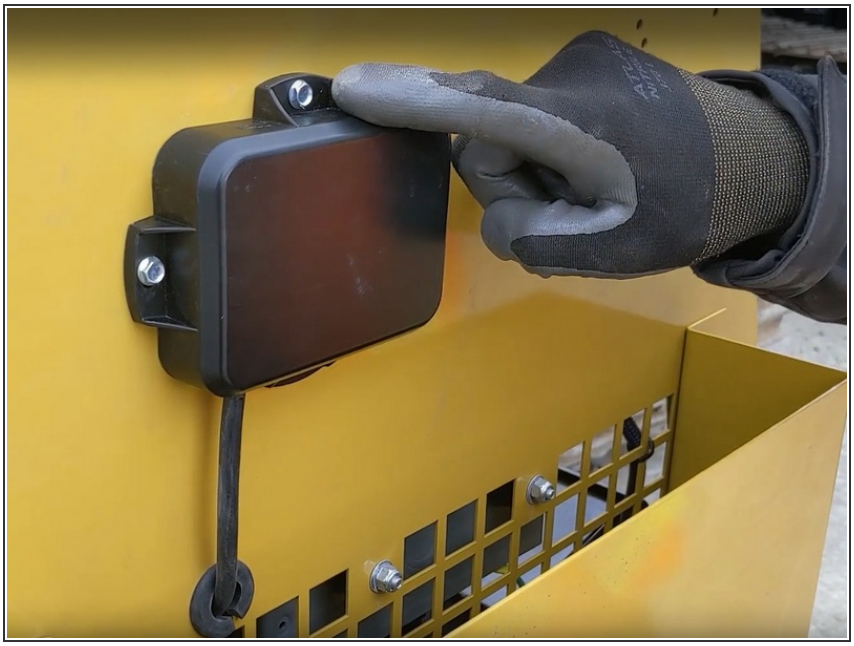
— Harness positioning





- The GO Rugged harness can be positioned out the back of the device for through hole mounting or it can be positioned to exit the side of the device.
- To route the harness out of the side, remove the plastic cover to reposition the harness.

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- Secure the device by using self tapping screws.

⚠ **Check behind the mounting location to ensure the area is clear of any obstructions or electrical wires/components.**

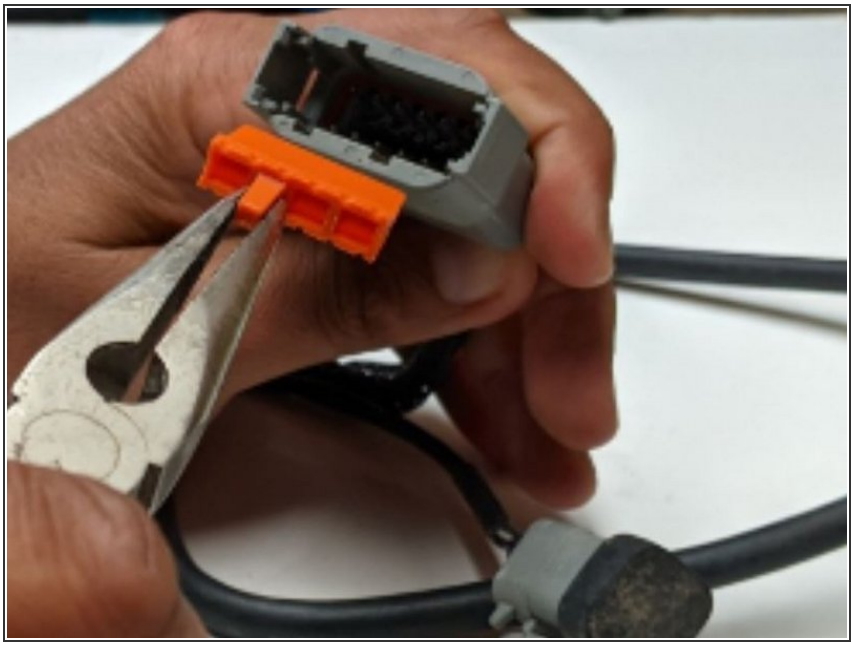
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— Harness De-pin & Re-Pin Instructions



ⓘ The steps outlined in this guide are to assist with de-pinning and re-pinning the Geotab GO RUGGED. To learn how to de-pin and re-pin the Connector, follow the steps next

— Remove the wedge lock

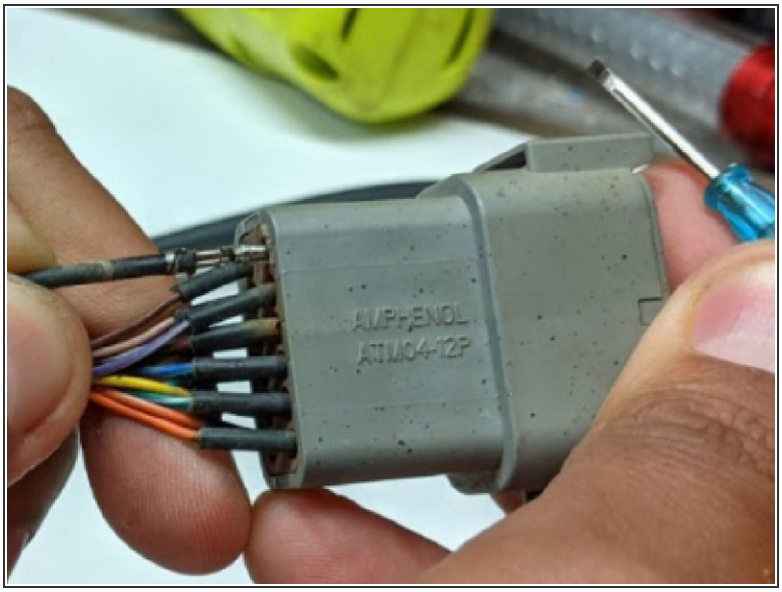


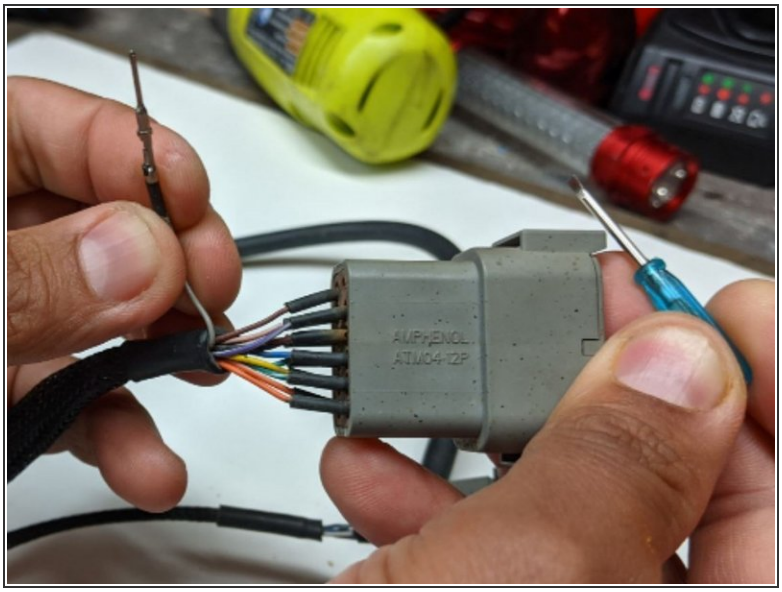
- Take Connector 1 and remove the wedge lock

ⓘ To do this, use needle nose pliers.

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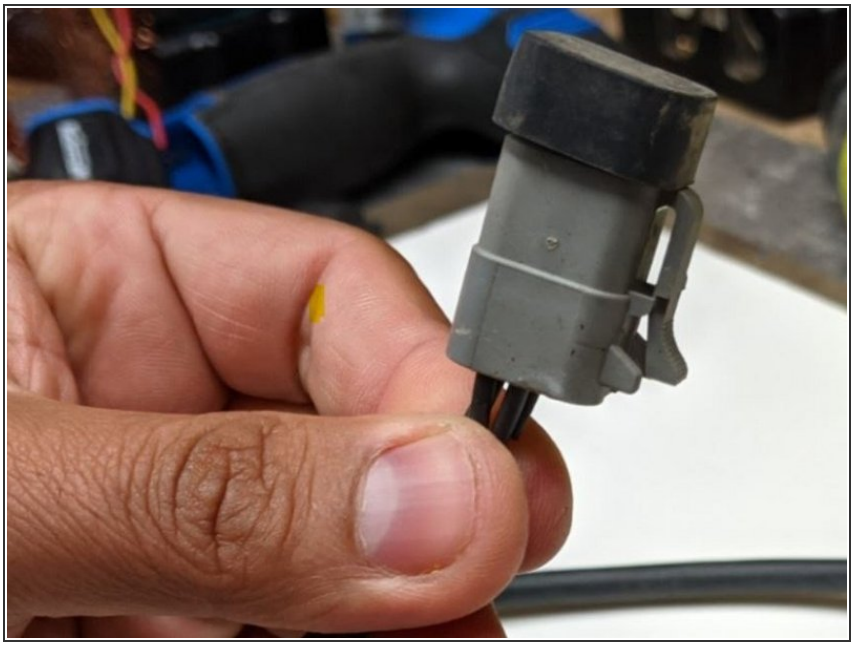
— De-Pin connector 1





- With the screwdriver provided, push down on each tab inside the Connector. This allows for the pin to unlock and slide out. Repeat this step for all the pins to completely de-pin the Connector

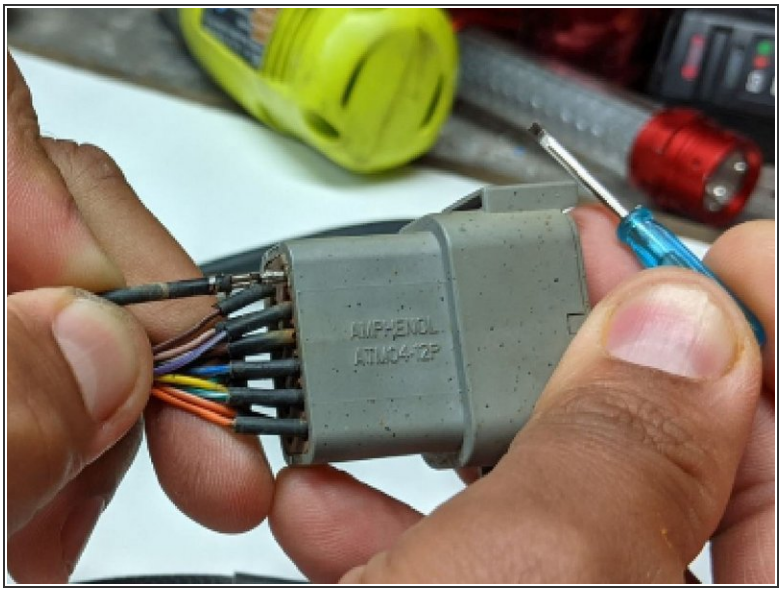
— De-Pin connector 2

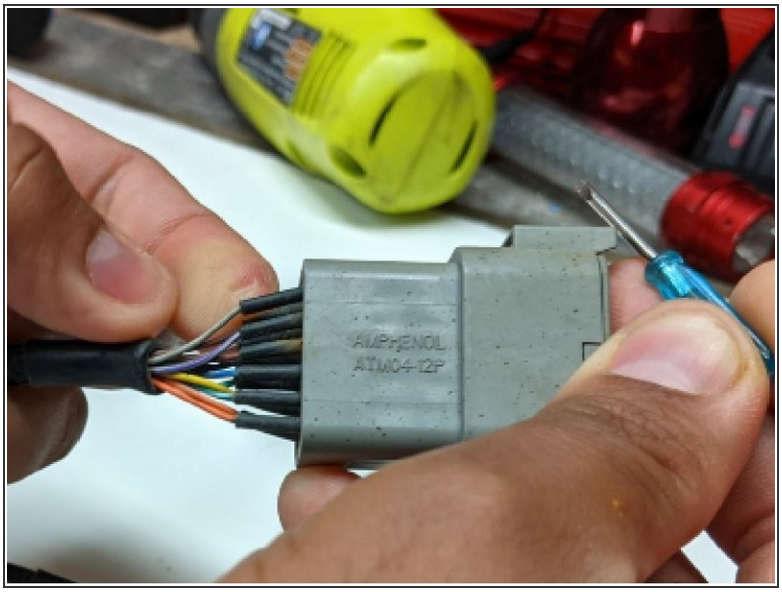


- Repeat previous step for Connector 2 on the GO RUGGED Harness.

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— Re-Pin connectors





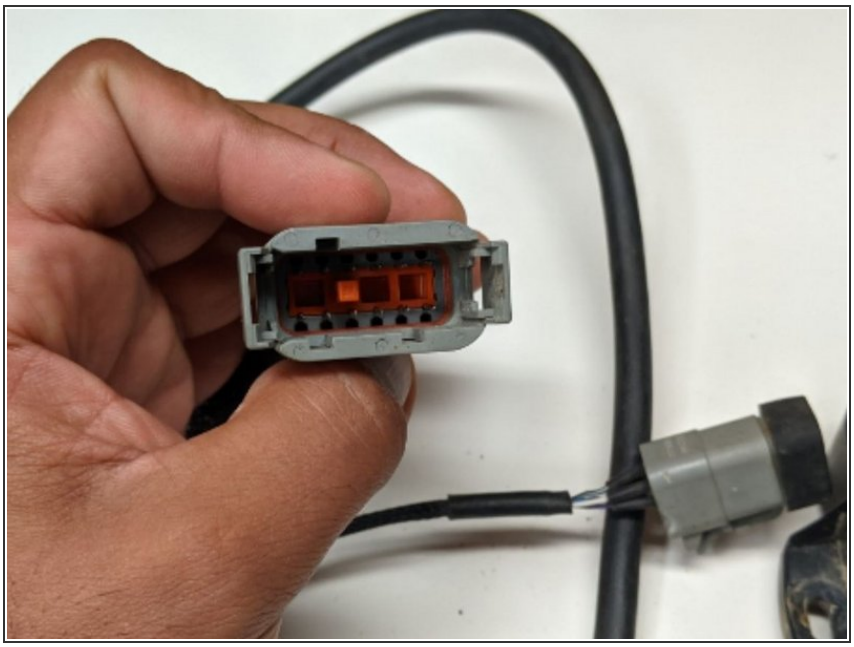
- To re-pin, slide the pins back into their correct slots for both Connectors. Lightly tug on them to confirm they lock back in place

ⓘ Use the Wiring Legend for reference.

— Wiring Legend

Connector 1	Connector 2	Wire Color
1		Orange
2		Green/White
3		Blue/White
4		Brown/White
5		Purple/White
6		Grey
7		Brown
8		Pink
9		Black
10		Green
11		Yellow
12		Orange/White
	2	Blue
	3	Black/White
	4	White
	5	Purple

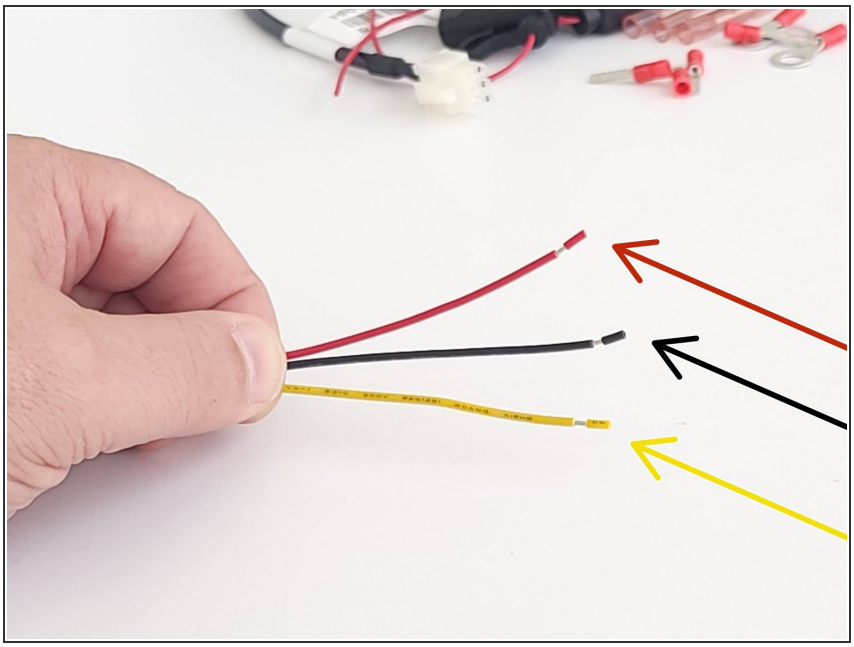
ⓘ The pin numbers are labeled on the Connectors.



- Take the locking wedge and push it back into place after all wires have been inserted and locked

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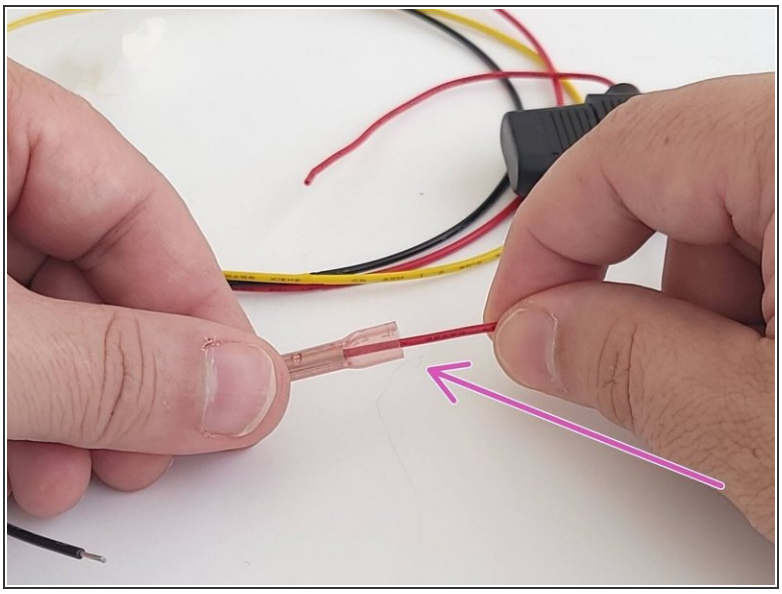
— Harness Assembly

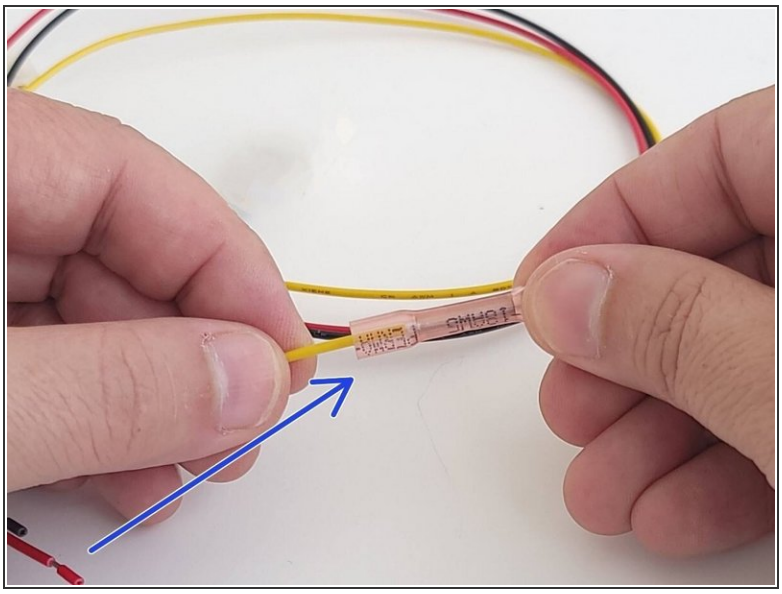


- There are **3 wires** which must be connected.
  - **Red**
    - +12/24V Constant power must be connected to a true battery source (live at all times).
  - **Black**
    - Must be connected to a verified ground.
  - **Yellow**
    - Ignition sense wire must be connected to a true ignition source.
    - +12/24V when the key is in both ON and Run positions, 0 when in Off position.

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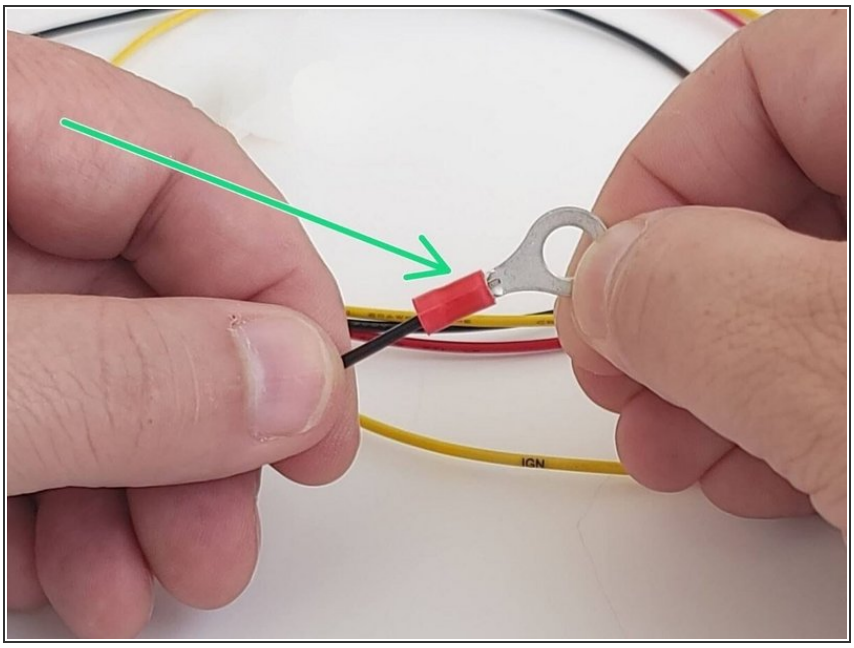
— Crimping wires



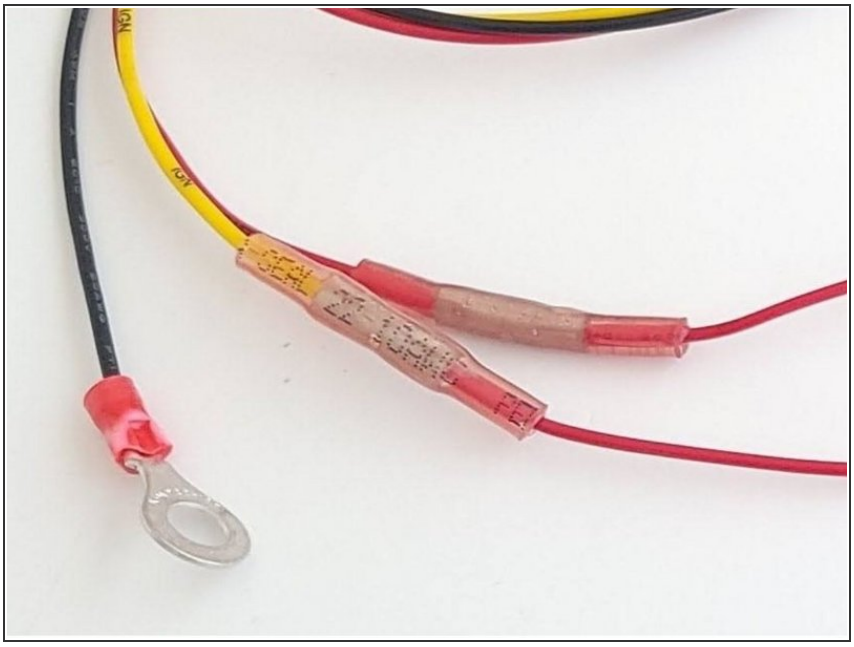


- Using your wire crimpers, attach the fuse holders on to the Red and Yellow wires using the included parts.
  - ⓘ The wires should come with the insulation pre stripped; ready for crimp on connectors.
  - Crimp one of the included ***butt splice*** connectors on to the end of the ***Yellow*** wire.
  - Crimp the ***open end*** from the previous step onto one end of the ***Fuse holder***.
  - Using a heat gun, or other heat source, ***heat shrink*** the ***butt splice connectors***.
  - ⓘ Repeat the above steps for the **Red** wire.
- ⓘ The remaining blunt cut end from the fuse holder will be what is connected to the vehicle.

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- Using your wire crimpers, crimp the **ring terminal** on to the **Black** wire.



- The assembly should look like this.

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⚠ ***Geotab does not recommend terminating to unknown circuits! Appropriate reference information is highly encouraged.***

- Known and publicly available publishers for automotive electrical & electronics: Fortin's Wire Color, Alldata DIY, Mitchell 1 DIY.

— Red Battery Wire





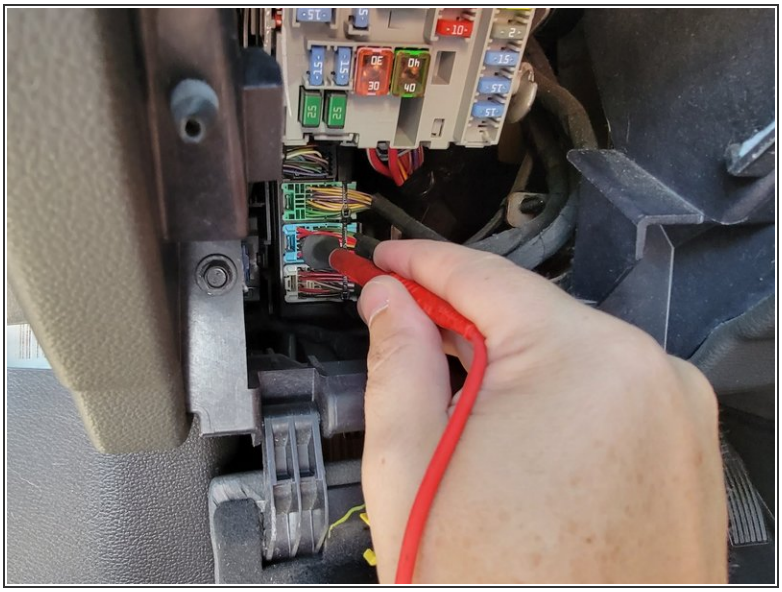
- Locate and verify a constant +12/24V Battery source.
  - ⚠ **Always use a Digital Multi Meter.**
  - ⓘ A suitable battery source will have +12/24V at all times, just like if you were to be connected directly to the battery.

ⓘ **Typical locations**

- Ignition switch.
- Fuse and power distribution panels.

— Yellow Ignition Wire





- Locate and verify a +12/24V Ignition source.

  ⚠ **Always use a Digital Multi Meter.**

  ⓘ A suitable Ignition source will have +12/24V while the vehicle's key or button is set to on/run and 0V when set to off.

ⓘ **Typical locations**

- Ignition switch.
- Fuse and power distribution panels.

— Black Chassis Ground Wire



- Connect the ring terminal to a verified ground using a self tapping screw (not included) or existing bolt.

ⓘ The surface may need to be prepared prior to connection.

- The ground surface should be bare metal.
- Remove any paint, corrosion, or other coating if present.

ⓘ Most heavy structure in the dash area is suitable to use as a ground. Always test using a DMM.

ⓘ Star washers and serrated head screws are recommended. *(not included)*



- Once all 3 wires (*Red, Black, & Yellow*) are connected to the vehicle:
  - Plug the fuse holder side and the device side of the **HRN-RW03K4** harness together.

— LED Verification



⚠ ***Start Vehicle or turn Ignition On***

- 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.**

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— 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.

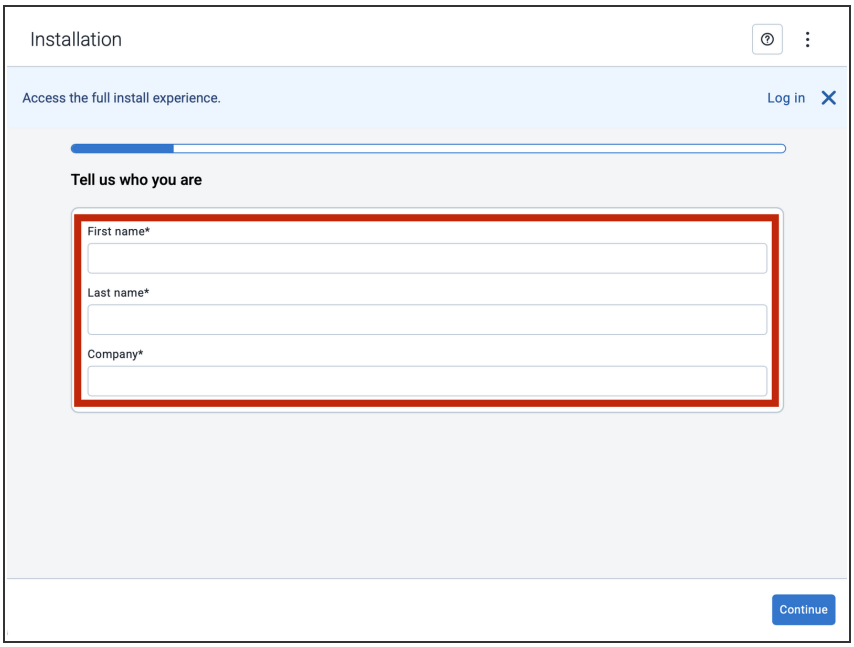
— MyInstall (Public)

ⓘ **Navigate to one of the following:**

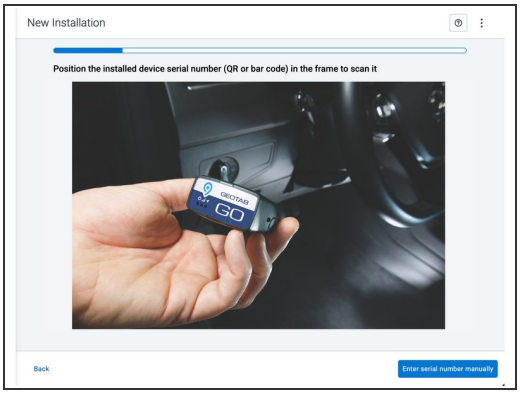
- *MyInstall (Public)*
- *MyInstall (Fed Gov)*

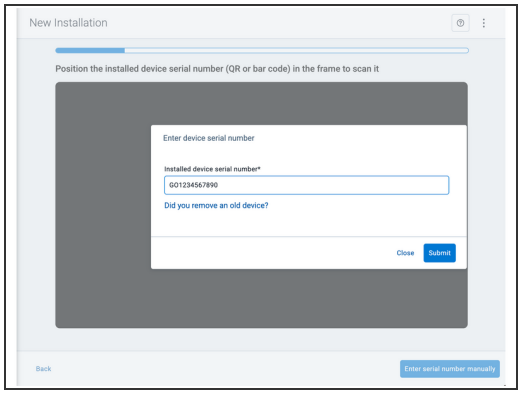
ⓘ **Note that the following steps are for the public version of MyInstall.**

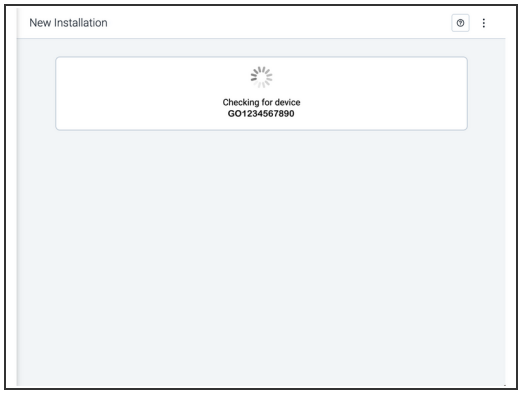
- *If you have an installer MyAdmin account, use this link*
- *This link is also accessible via the MyInstall Public page.*



- Enter the installer information.





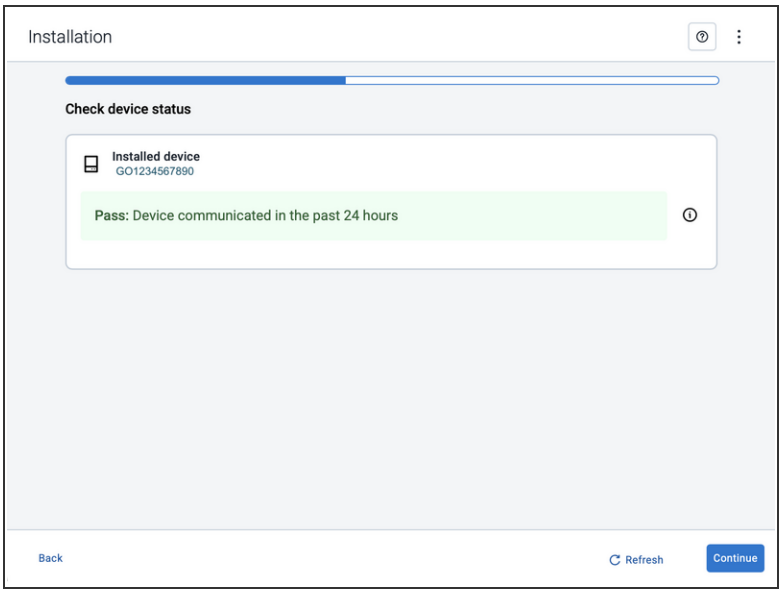


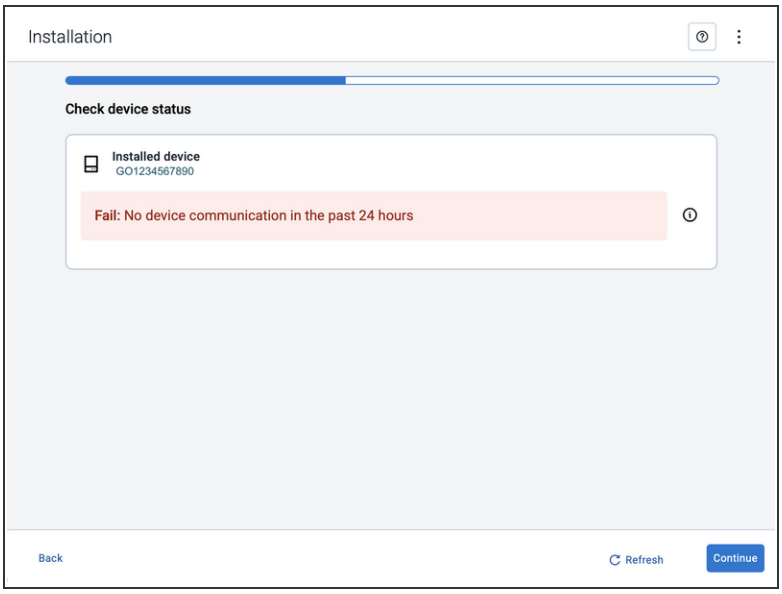
ⓘ Two options are available to enter the device serial number:

- 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.





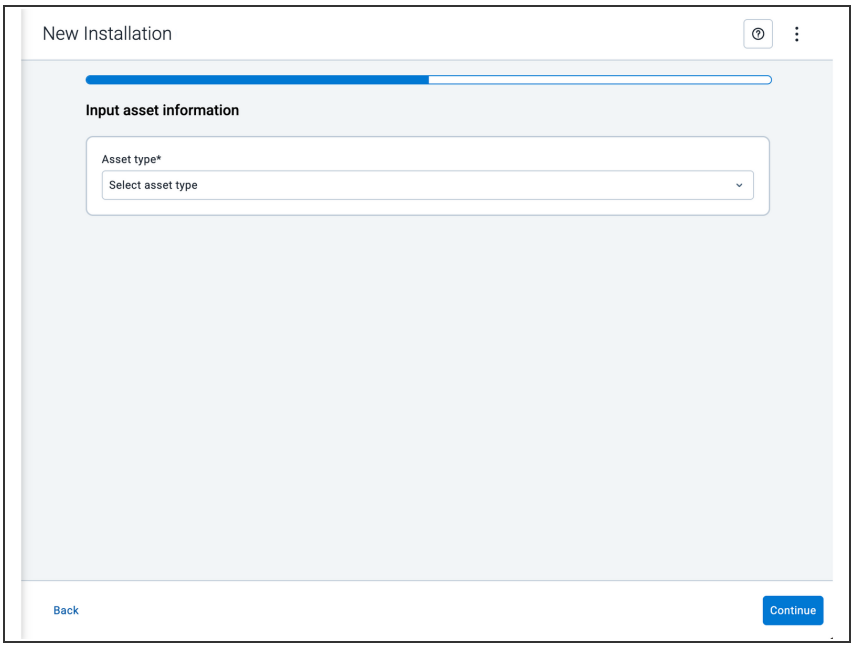
ⓘ Installed device

- **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.

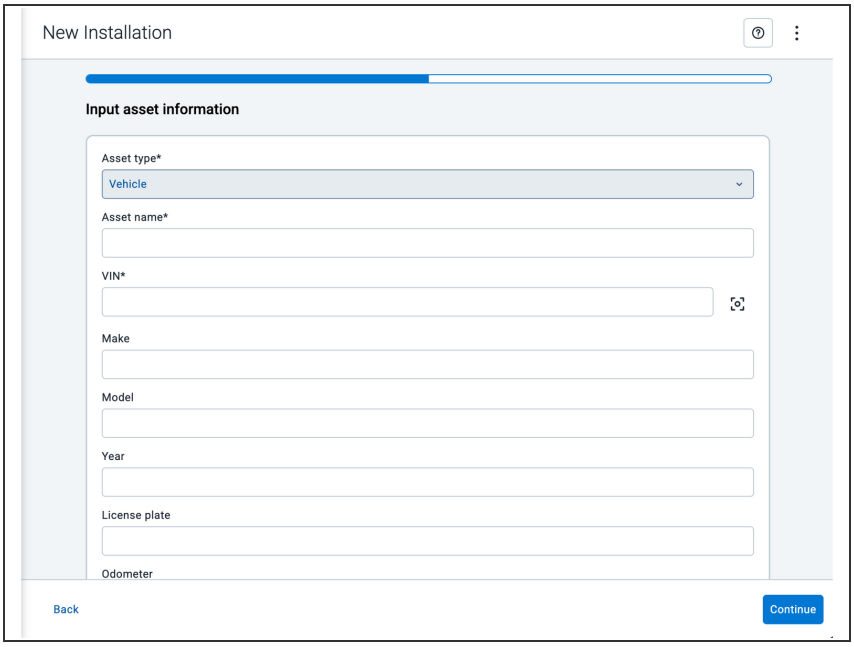
⚠ If the device status shows as ***FAILED***, verify the LED status and turn the ignition / engine off and on again.

ⓘ Press ***Refresh*** to check the status again.

ⓘ Refer to the **MyInstall User Guide** for detailed instructions.



- 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.

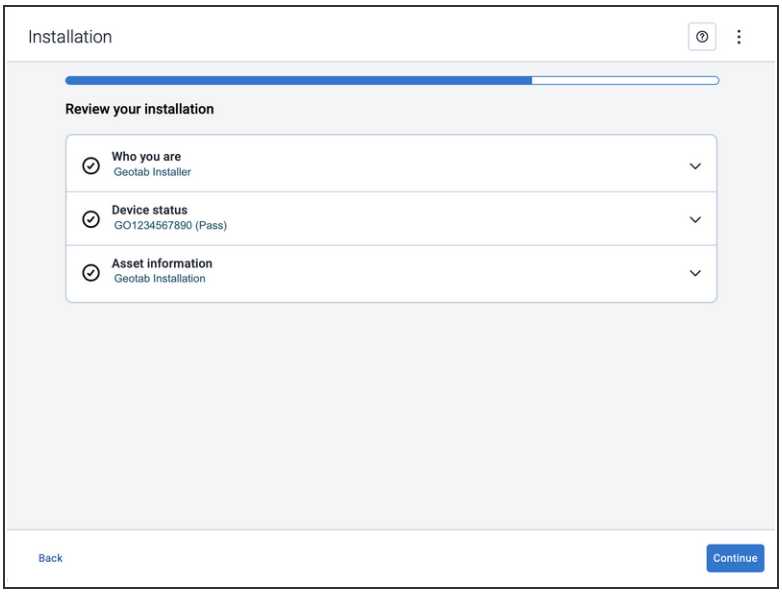


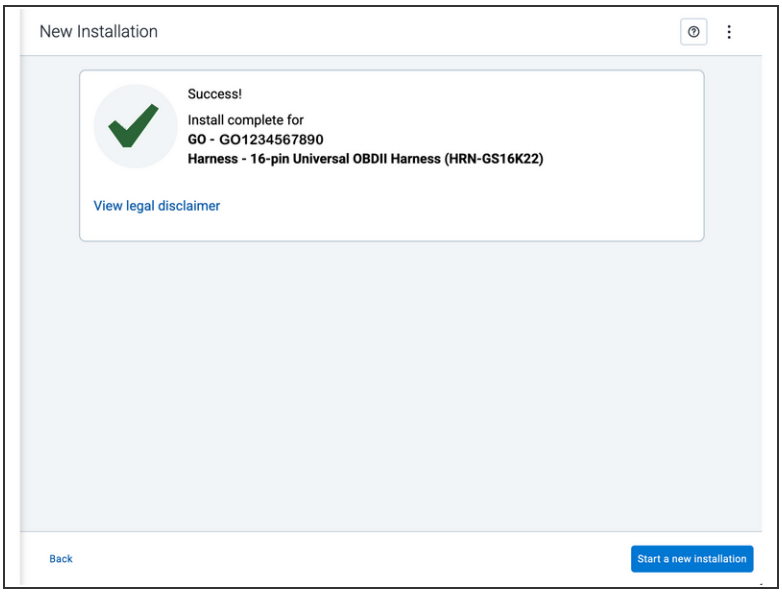
- **Asset name** — Enter the vehicle or asset name. This field is mandatory.
- **VIN** — Scan or enter the vehicle identification number (VIN). For scanning, select the scan icon **[O]** beside the field. This field is mandatory.
- **Make, Model, and Year** — This information will be auto populated when 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.*

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- **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.

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ⓘ 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

ⓘ 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.

ⓘ 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.

ⓘ 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

— GO9 RUGGED

- Insert wisdom here