

GEOTAB®

GO9 RUGGED - Recreational Vehicle

This guide will take you through the installation of a GO9 RUGGED with the HRN-RW03K4 harness in a Recreational vehicle such as SeaDoo and ATV.

Written By: Jason Fox



INTRODUCTION

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

Overview

Recreational assets (such as Sea-Doos, ATVs, and so on – sometimes referred to as specialty vehicles) have unique installation considerations compared to standard on-road light-duty vehicles. In particular, you must consider their smaller battery size and higher likelihood of elemental exposure. The GO RUGGED device installed via an ignition-based method alleviates both issues.

Battery size

Recreational vehicles typically have smaller batteries compared to traditional on-road vehicles. While traditional vehicles often use 12V batteries with capacities ranging from 40 to 100 ampere-hours (Ah), ATVs usually have batteries in the range of 10 to 20 ampere-hours (Ah).

Elemental exposure

It is important to select Geotab hardware that is suitable for the vehicle's specific installation environment and application. For use cases where the vehicles are expected to face elemental exposure (such as liquids, dust, or interior wet cleaning/power washing) we recommend the GO RUGGED device (either the [GO8 RUGGED](#) which is IP67 rated, or the [GO9 RUGGED](#) which is IP68 & IP69K rated). For more information, refer to the support documents linked above.

*** NOTE:** Any references to “2 wire” or “3 wire” installations are in respect to the [GO RUGGED device installation using HRN-RW03K4](#) document. For the purposes of this document, the main difference of 3-wire is the enablement of [Trip Tracking](#) for recreational assets.

*** NOTE:** Depending on the recreational vehicle specific make/model/year, the steps outlined here may require a different order of operation (such as routing wires after mounting or vice-versa).

 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)

— 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.
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- ⚠ 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.



- ① Before installation it is recommended to document the following:
 - Record GO Rugged device serial number
 - ① 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)*

— Ignition-based installation of the GO RUGGED device



- The following are general instructions for installing a GO RUGGED device in a recreational vehicle.

⚠ This guide's sample pictures are of a Sea-Doo and an ATV. Your actual install will likely vary.



- Familiarize yourself with the asset and remove panels as needed to access the power point connection and choose an appropriate mounting location.



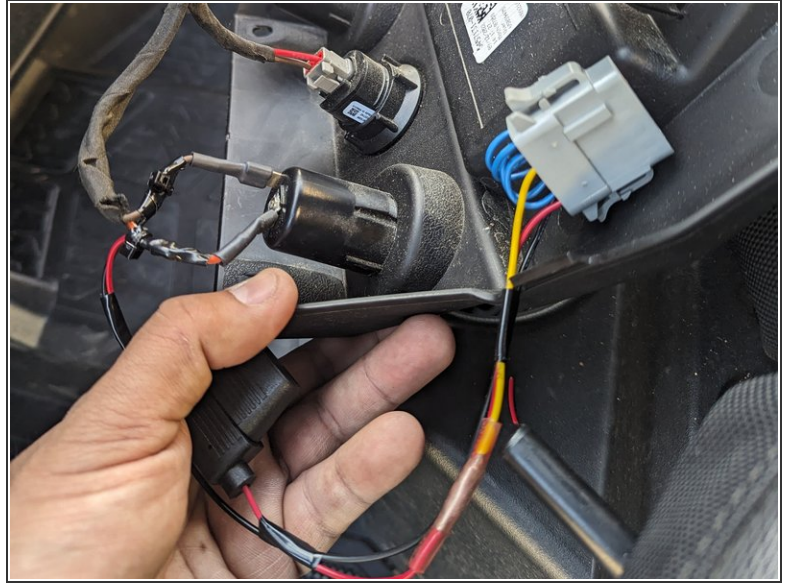
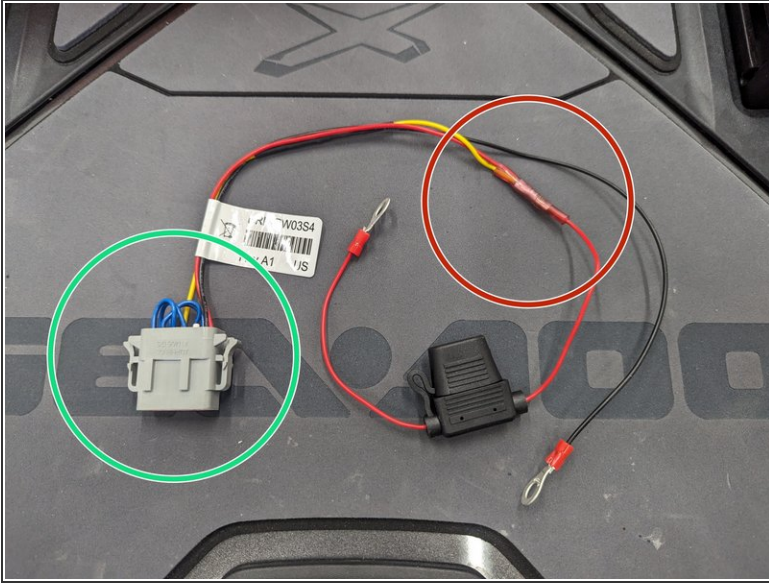
- Use a voltmeter to test for ignition: ensure it reads 12/24V when the key is in the ON position, and 0V when the key is on the OFF position.



- Mount the GO RUGGED in an appropriate location where wires can be safely routed towards the power interface point. The location must have the best possible view of the sky with the least metal obstructions.
 - The installer is encouraged to fasten the device using nuts & bolts/screws if the asset experiences excessive vibration during use/operation.
- ⚠ Use extra caution when drilling to avoid compromising the asset in any way, ensuring that no wiring or other components that could impact mechanical operation are affected.



- Route the wires towards the chosen power interface point. Make sure you secure the wires using cable ties and clamps as needed to prevent interference with operating the asset.



- Prepare the HRN-RW03K4 harness as required (this harness comes with installation consumables in the HRN-RW03K4 kit).
 - ⚠ **The RED constant wire and YELLOW ignition wire must be tied together using a singular fuse holder to be connected to the ignition source.**
 - Connect the black wire to a ground source.
 - Connect the 12-pin male connector on the GO RUGGED device to the 12-pin female connector on the corresponding harness as shown, ensuring it clicks into place. Ensure that all connections are secure.
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- ⚠ **If you are also installing an IOX, connect the 6-pin female connector on the device to the 6-pin male connector on the HRN-RW03K4, ensuring it clicks into place.**
 - ⚠ **Connect the female mini-USB connector on the other side of the HRN-RX06S4 to the male mini-USB connector on your IOX. Ensure that the two USB connectors are secured with a zip tie.**

— LED Verification



- **Red LED**
Device configuration
- **Green LED**
Cellular network
- **Blue LED**
GPS network

⚠ **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**.*

— 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)

- i

Navigate to one of the following:
- ★

[MyInstall \(Public\)](#)
- ★

[MyInstall \(Fed Gov\)](#)
- i

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

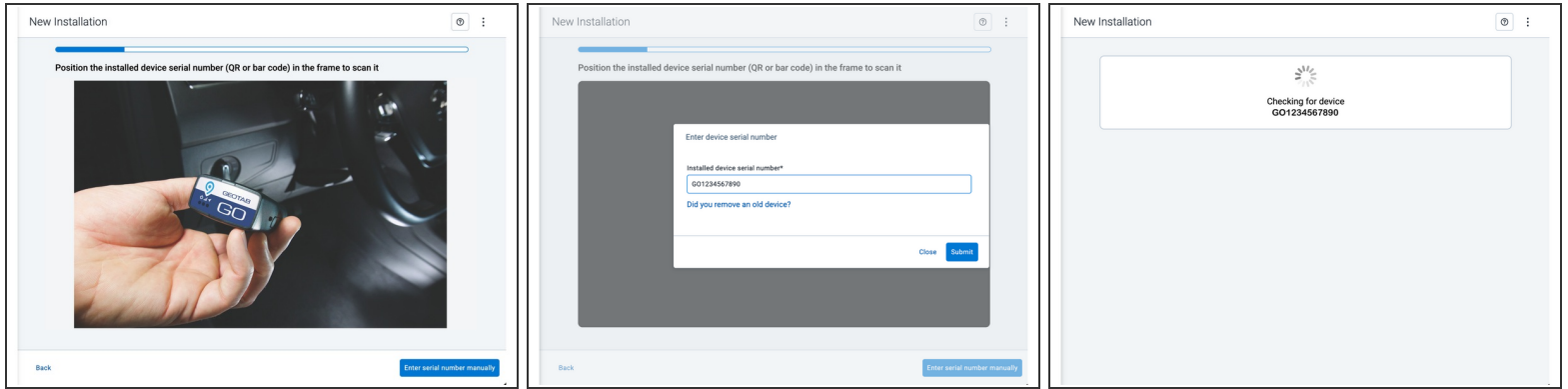
First name*

Last name*

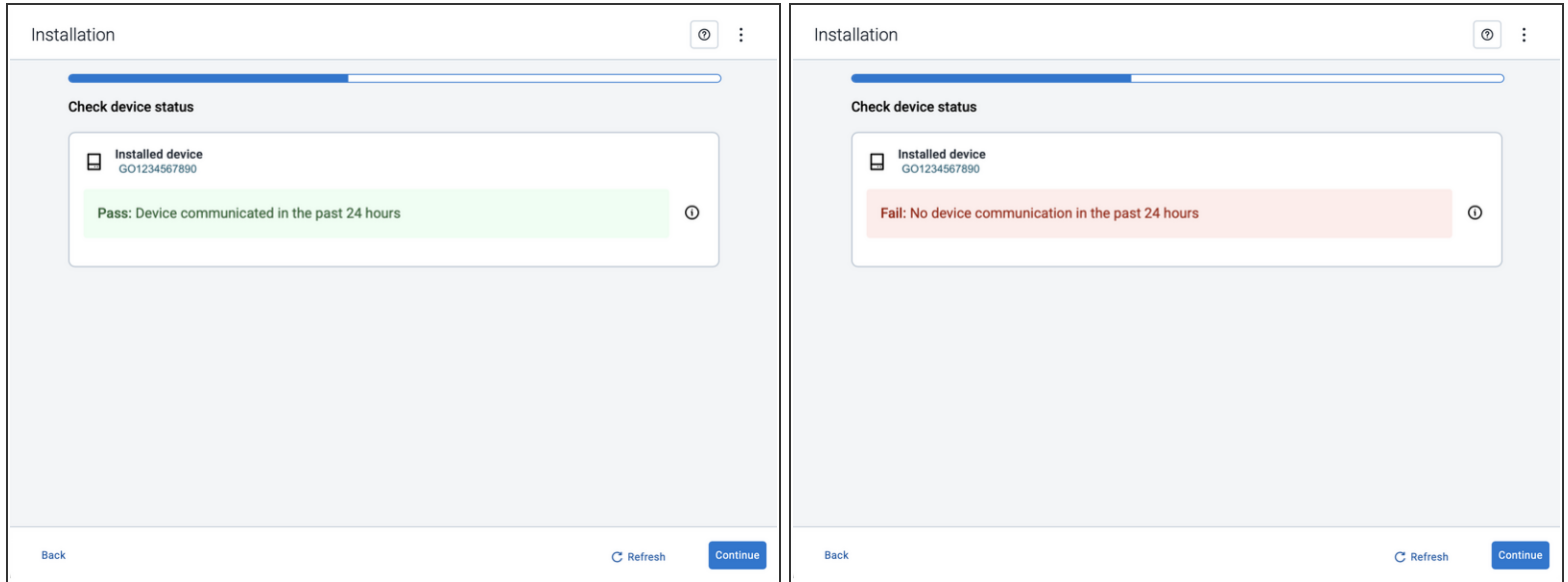
Company*

Continue

● Enter the installer information.



- ❗ Two options are available to enter the device serial number:
- Scan the device serial number (QR or bar code) 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.



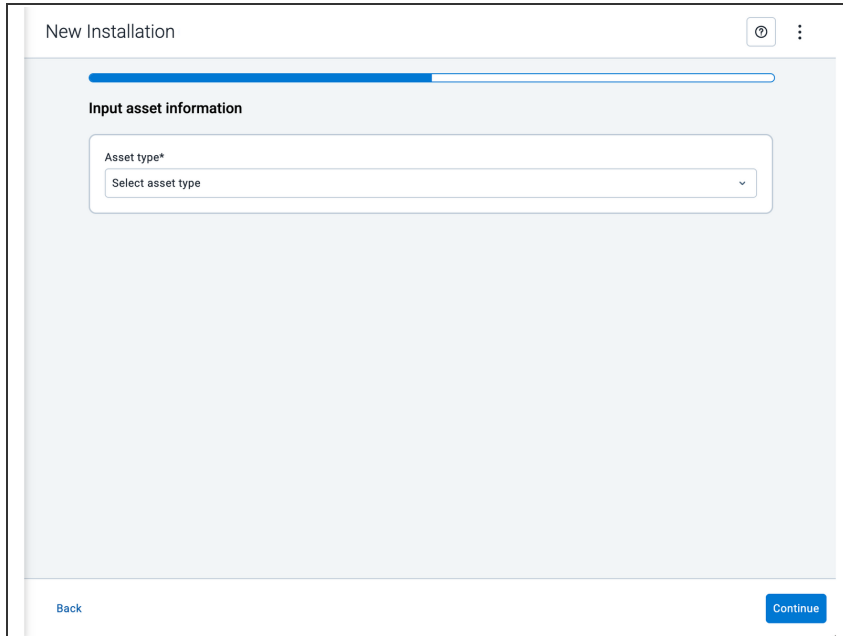
Installed device

- **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.

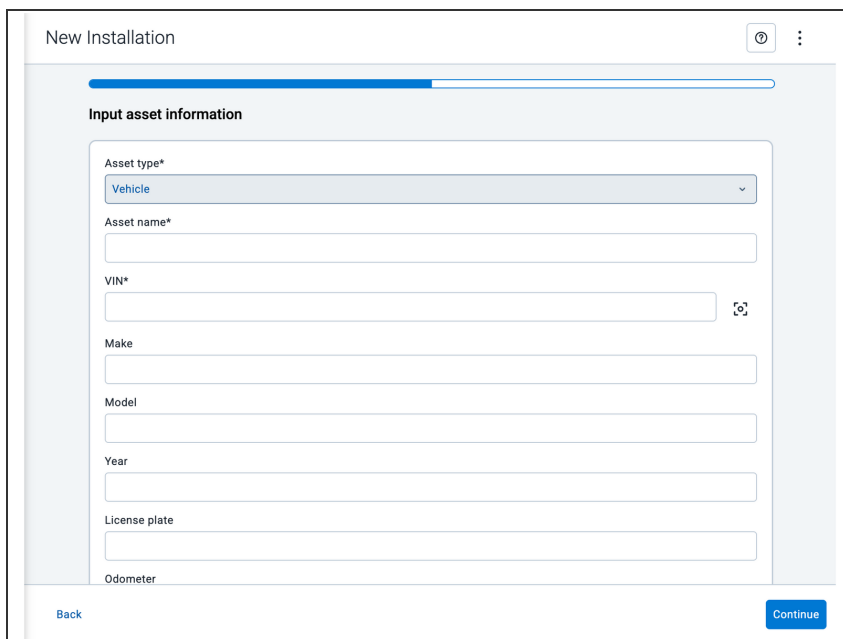
 Refer to the [MyInstall User Guide](#) for detailed instructions.



 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.

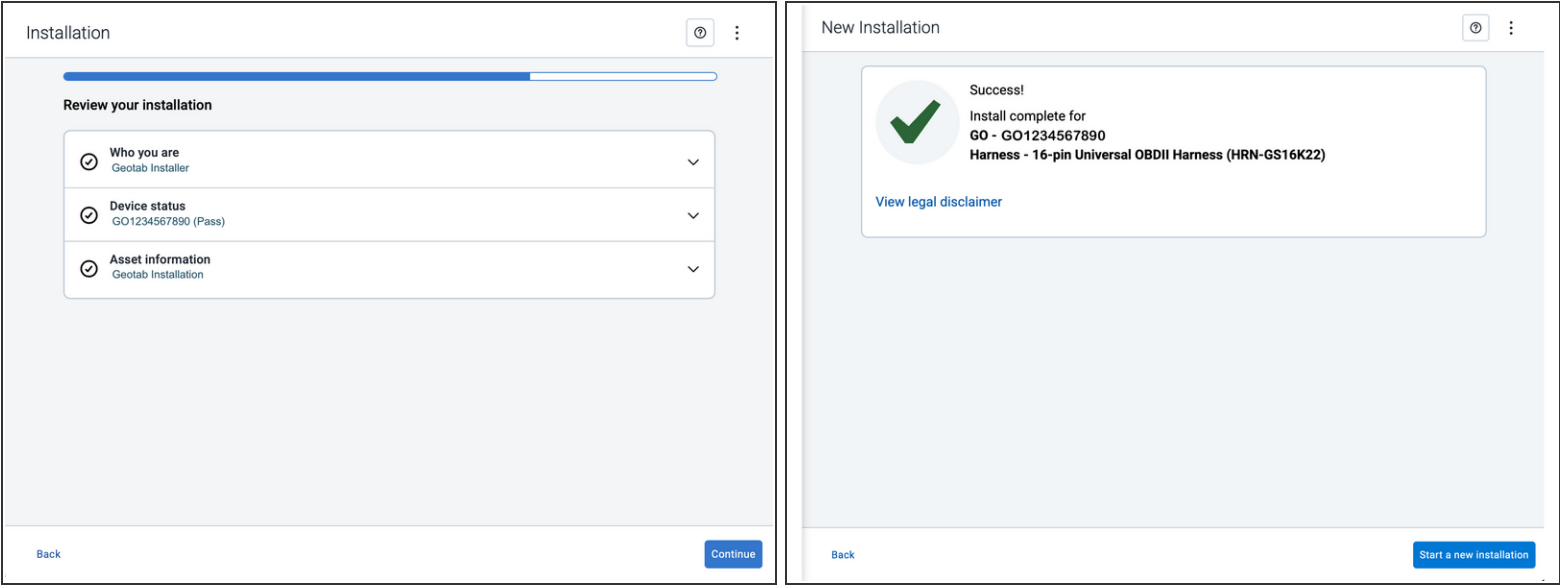


● **Asset name** — Enter the vehicle or asset name. This field is mandatory.

● **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.*

- **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.



- ① 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](#)