HRN-XGS16K2-LD Standard Light Duty 16-Pin T-Harness Kit Guide

This guide will take you step by step through a typical GO10 device install in a Light Duty vehicle using the HRN-XGS16K2-LD Standard 16-Pin T-Harness Kit.

Written By: Jason Fox



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INTRODUCTION

[video: https://youtu.be/Xwp7mSCtRfE]

For more information see **16-Pin Light Duty OBD-II T-Harness kit for GO10 and GO10 Plus - HRN-XGS16K2-LD** support document.

RECOMMENDED TOOLS & CONSUMABLES:

- Panel Removal Tool (1)
- 1/4" Metric Socket Set with Ratchet or Driver (1)
- Multi-Bit Screwdriver with Assorted Bits (1)
- Flush Cutter (1)
- Cable Ties (1)

HARDWARE & ACCESSORIES:

- GO10 (1)
- HRN-XGS16K2-LD Universal LD Harness Kit GO10 (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 & Geotab Truck Solution - Harness Identification and Application

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.

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— Preparing For Installation

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

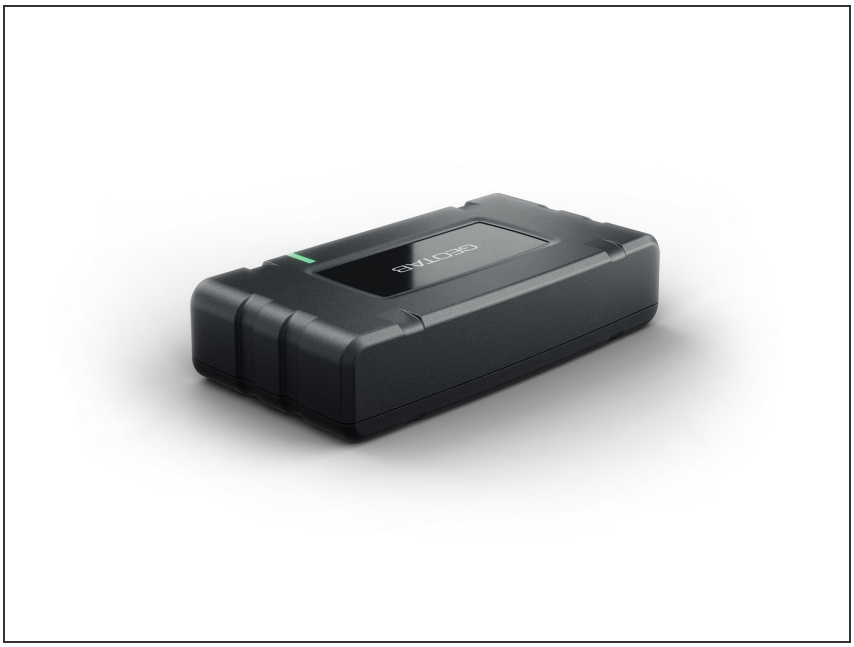
⚠ Ensure you use enough cable ties to secure both the device and the harness to the vehicle. An unsecure device can result in poor electric and/or data connections, which can lead to short circuits and fires or cause malfunctions of vehicle controls that can result in serious personal injury or significant damage to the vehicle.

ⓘ 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.

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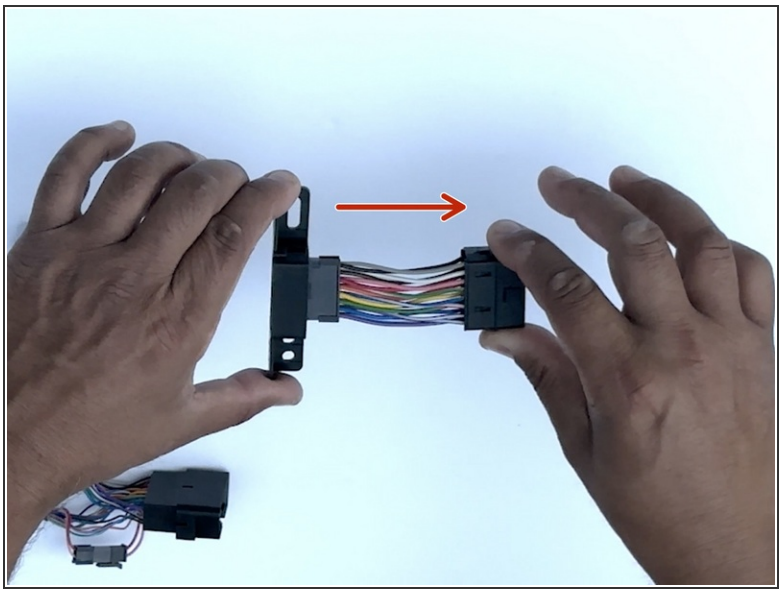


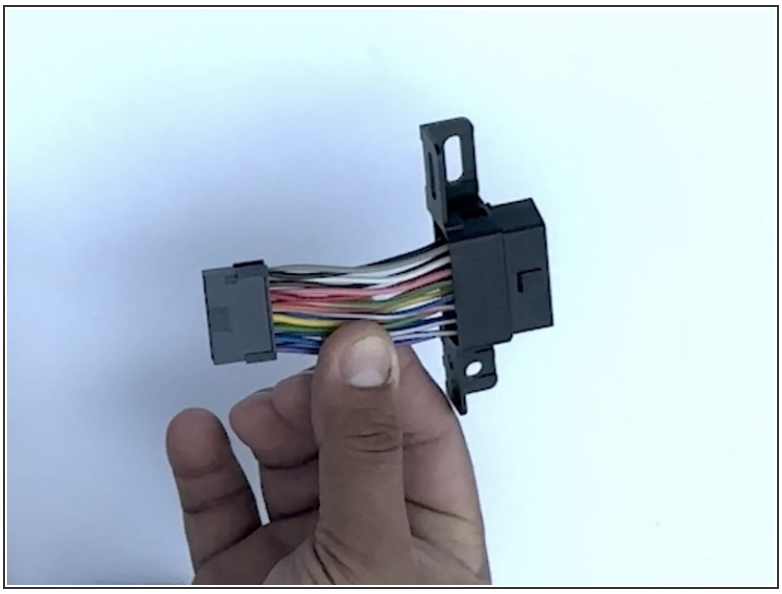
- Before installing, record the following:
  - GO device serial number
    - Serial number begins with X and is laser etched into the GO10 along with a QR Code to scan for MyAdmin.
  - Odometer reading
  - Vehicle or asset name
  - VIN (vehicle identification number)

— T-harness Installation



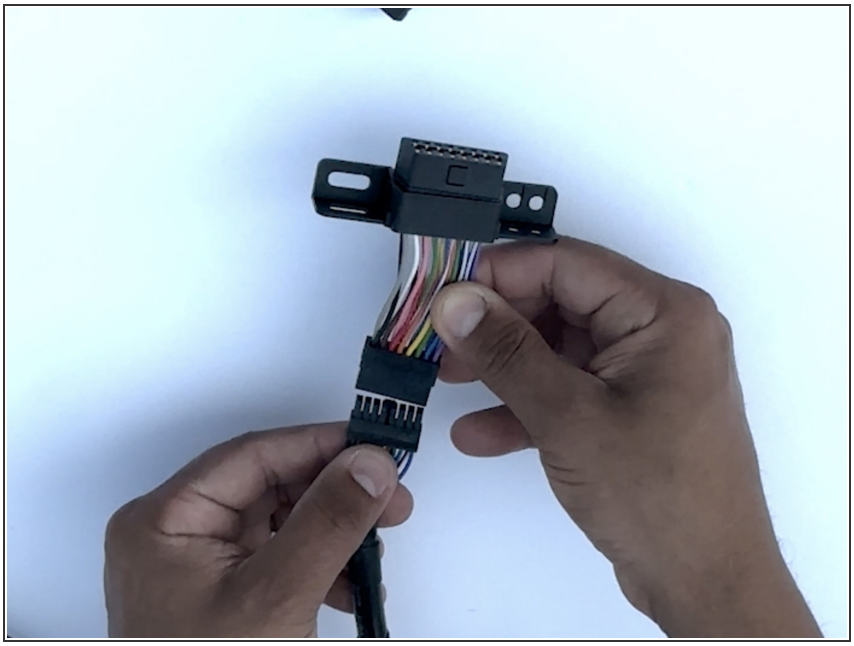
- Locate & remove the diagnostic port from its factory location. This may require removing panels on some vehicles.
- Identify the adapter required for installation from the parts included in the kit.
  - *See here for general identification.*





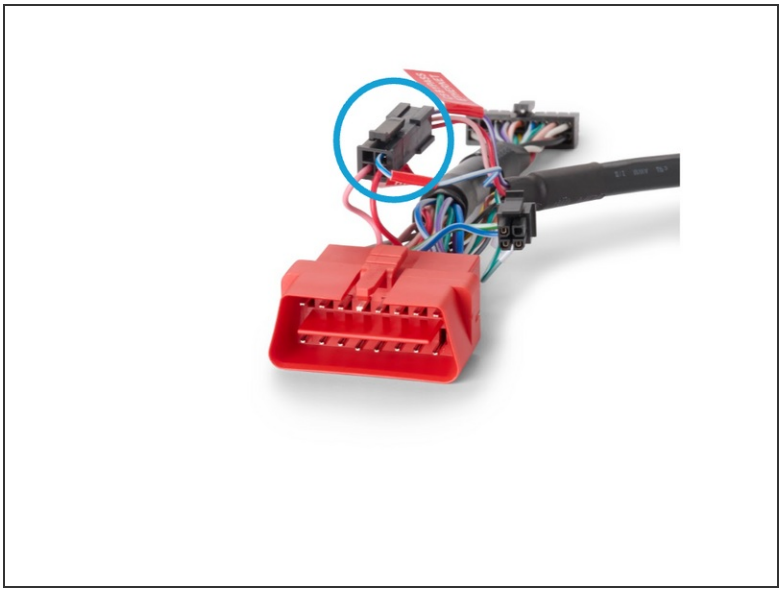
- Choose the correct adapter for your installation.
- Slide the adapter over the short harness and onto the connector housing.
- Ensure the adapter locks into the locking tabs.

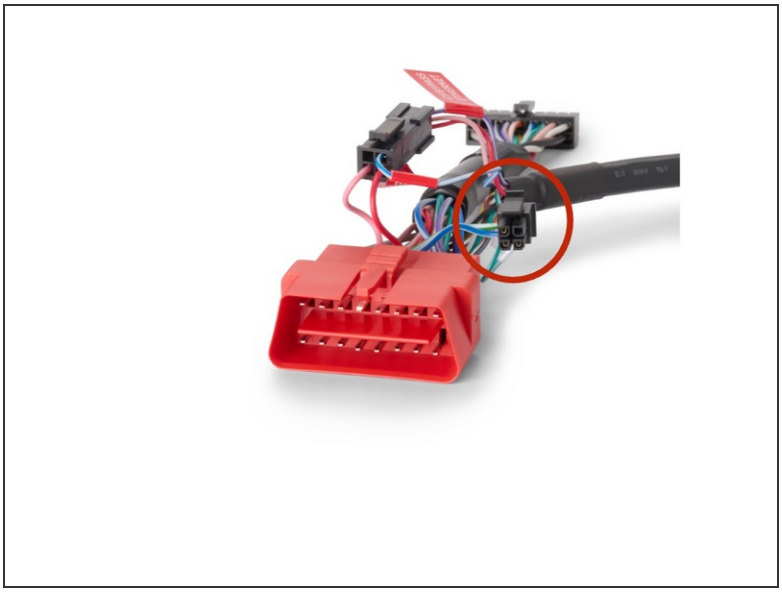
If the adapter is not locking into place, the adapter is likely installed backwards.



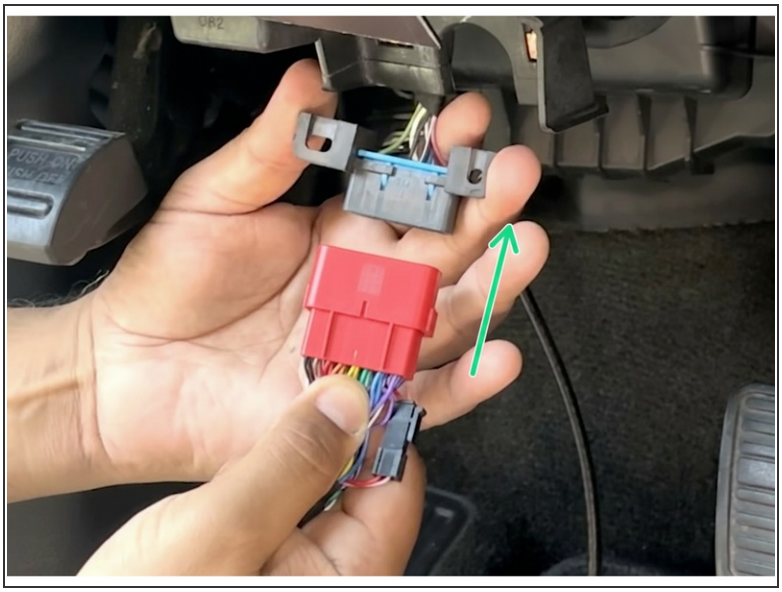
- Connect the Molex connector to the T-harness, making sure the lock is clipped in to ensure a tight connection.

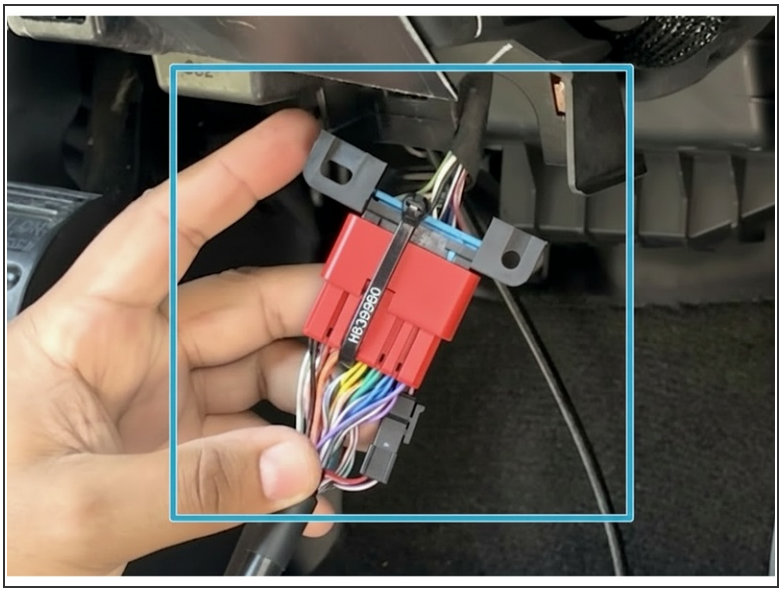
— Harness Configuration





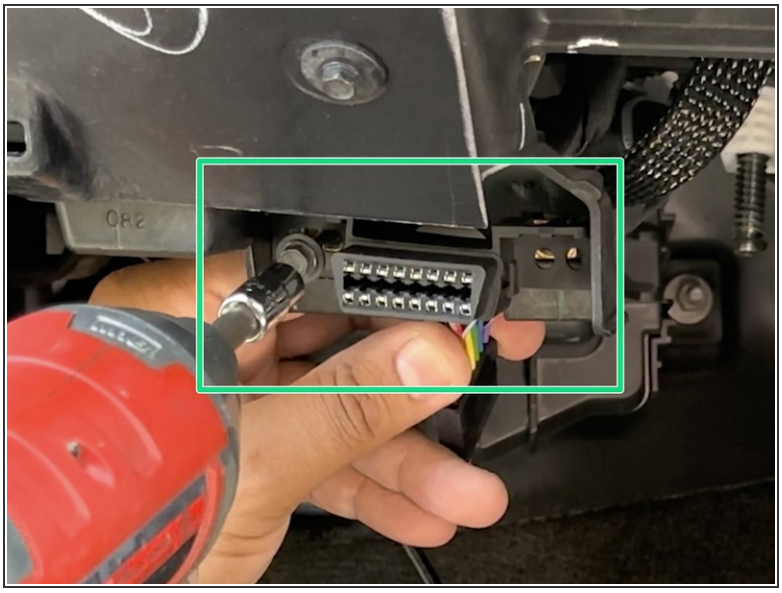
- **! IMPORTANT:** For Ethernet bypass (pins 3 & 11), disconnect the 4-pin Molex connector labeled C3 & C5 Bypass Ethernet. This applies to select vehicles, refer to DoIP Ethernet Bypass for 16-pin Harnesses for the applicable vehicle list.

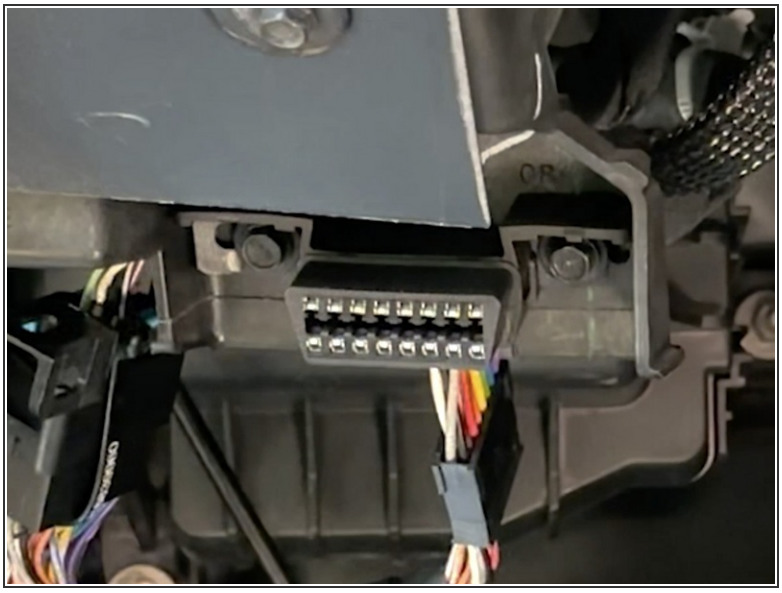




- Attach the male end of the T-harness to the factory diagnostic port.
- Secure the connection with a cable tie.

⚠ ***Trim any excess cable tie***





- Install the prepared T-harness connector and mount it into the factory diagnostic port location.

⚠ ***Ensure cable does not interfere with any moving parts***

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

— GO10 LED Verification and Mounting

ⓘ If installing an **IOX** accessory please use the correct guide from here before performing the steps below.

— Plug in GO10 device.



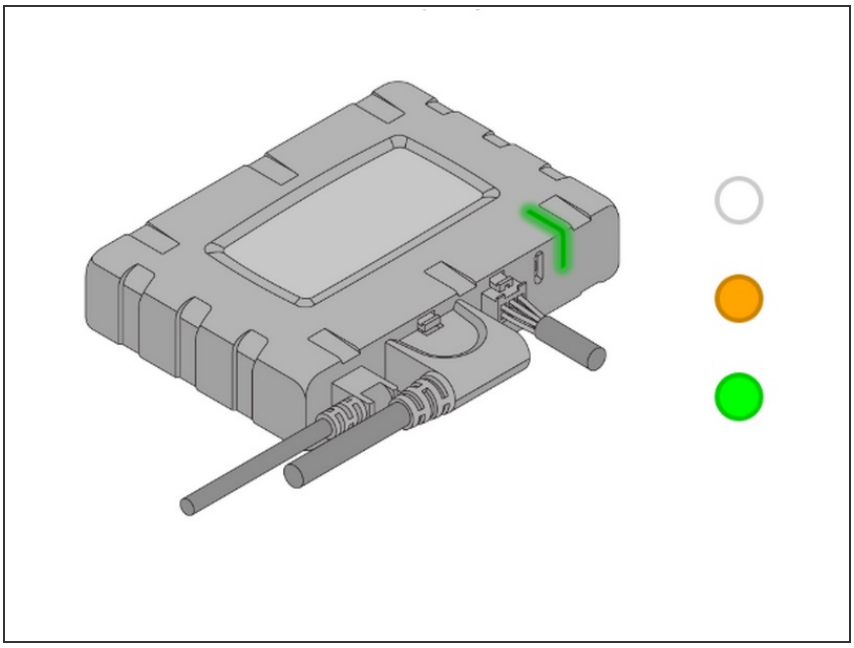
- Plug Harness into the GO Device.

ⓘ *Be sure it clips in place. Due to this clip securing the connection a cable tie is not required.*



- Turn on vehicle ignition to initiate GO device startup and initial configuration
  - ⓘ The LED light wil flash slowly during startup which typically takes 60-80 seconds.

⚠ Do not unplug or touch the device during this time.

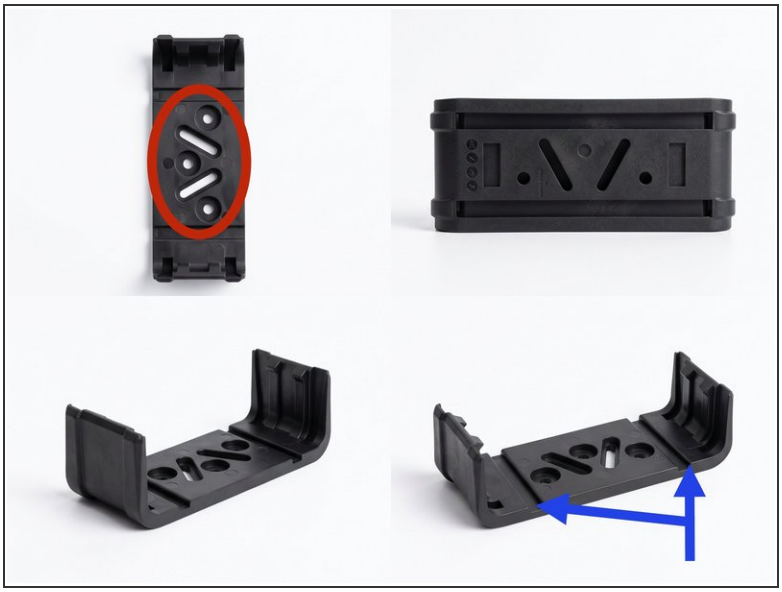


After 30 seconds, you should see a solid green light. If not, look for the LED pattern and troubleshoot using the below steps:

- Slowly flashing WHITE - Initializing/waking up - Do not power off device, wait for it to finish.
- Quickly flashing WHITE - Firmware updating - Do not power off device, wait for update to finish.
- Quickly flashing ORANGE - Weak/No cell signal - Move vehicle to area with better cellular coverage.
- Flashing ORANGE twice - Weak/No GPS signal - Ensure device has a clear view to the sky.
- Solid GREEN - Device is operating normally - No action needed.
- Quickly flashing GREEN - No ignition - Ensure Vehicle ignition is on.
- Flashing GREEN every 3 seconds - Light Sleep - Device is sleeping, no action is needed.

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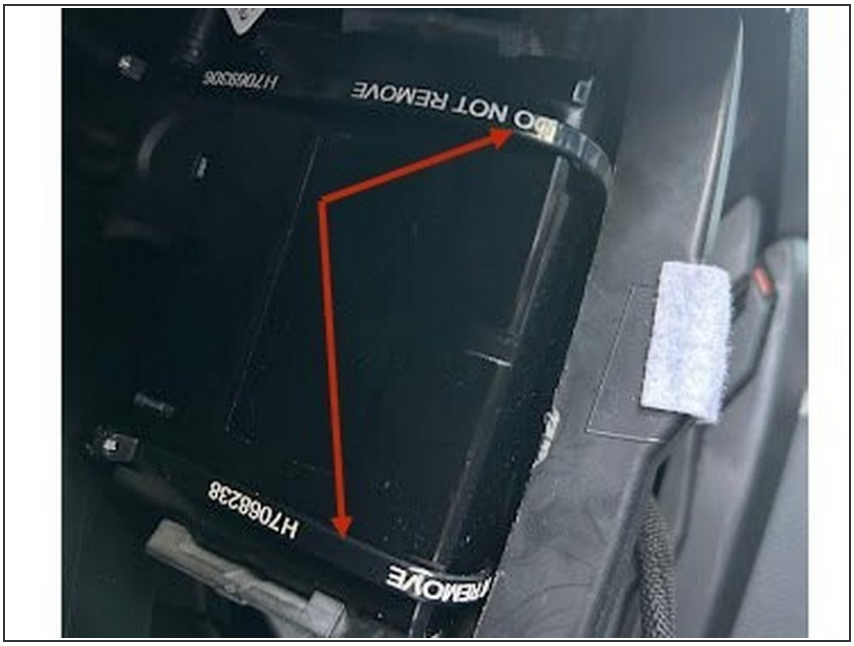
— Optional Mounting Bracket (HDW-GOLBRK Sold Separately)





- Use 2 included screws to securely mount bracket. Note there are multiple hole configurations.
- Alternatively you can use 2 cable ties to secure the bracket if it applies to your mounting location. Run cable ties through the indentations as shown.
- Be sure to secure the GO device to the bracket using 2 cable ties through the designated slots.

— Mounting GO10



- Route device to mounting location as needed.
  - ⓘ Ensure cable does not interfere with any moving parts.
  - ⓘ Sercure harness as needed with cable ties.
- Secure device using 2 cable ties.

☑ To ensure good data quality, the decice must be firmly secured with no free movement!

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⚠ **Reattach any dash panels that were removed.**

Ensure all trash and packaging is removed from the vehicle.

— Geotab Installation Tool

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.*

— Important Safety Information and Limitations of Use

ⓘ Please visit Limitations of Use

⚠ 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