HRN-XCW03K3 - 3-wire Harness with Fuse Kit

This guide will show basics of installing a 3-wire harness where diagnostics port is not available.

Written By: Jason Fox



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INTRODUCTION

For more information see **3-Wire Harness Kit Compatible with GO10 and GO10 Plus - HRN-XCW03K3** support document.

RECOMMENDED TOOLS & CONSUMABLES:

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

HARDWARE & ACCESSORIES:

- GO10 or GO10 Plus (1)
- HRN-XCW03K3 - 3-wire Harness with Fuse Kit (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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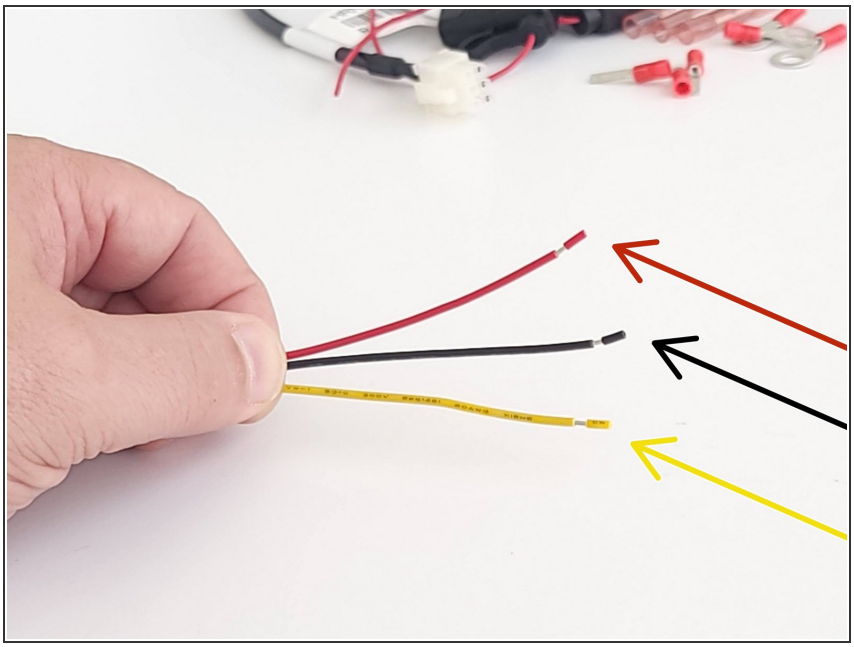


Before installing, record the following:

- GO device serial number
- Odometer reading
- Vehicle or asset name
- VIN (vehicle identification number)

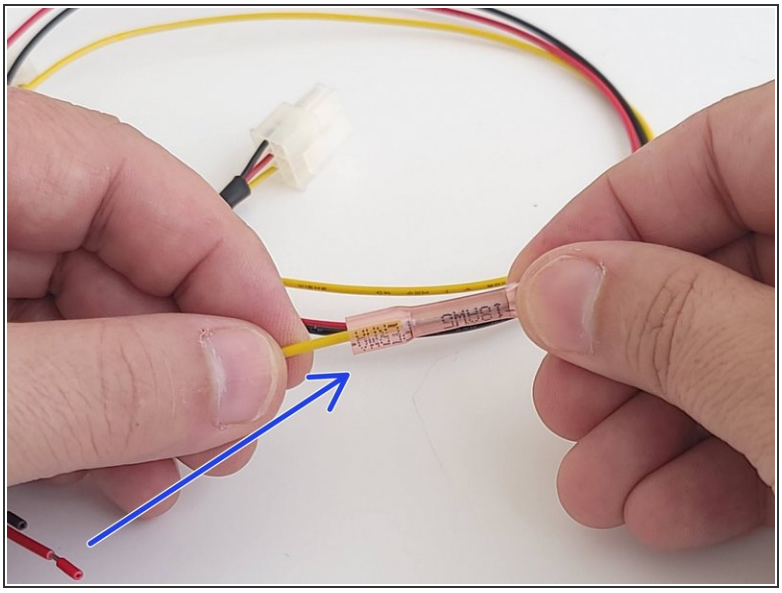
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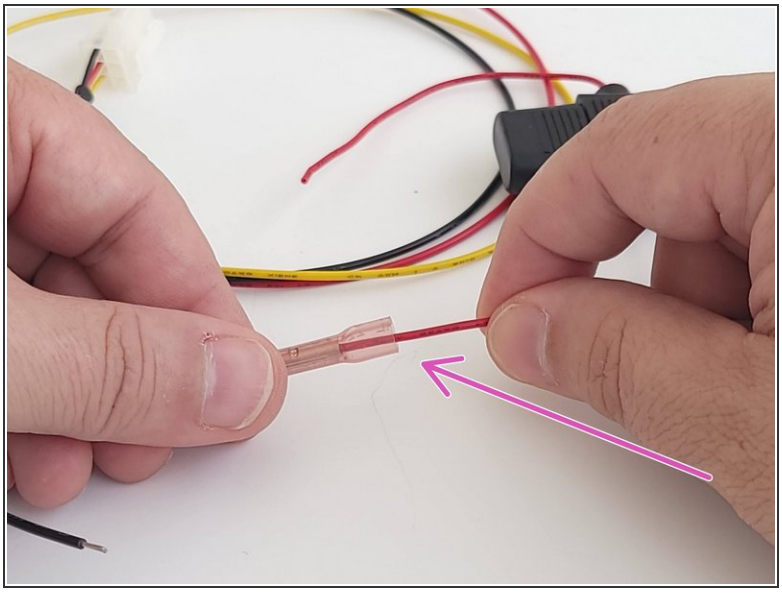
— Installation - Harness Assembly



- 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.

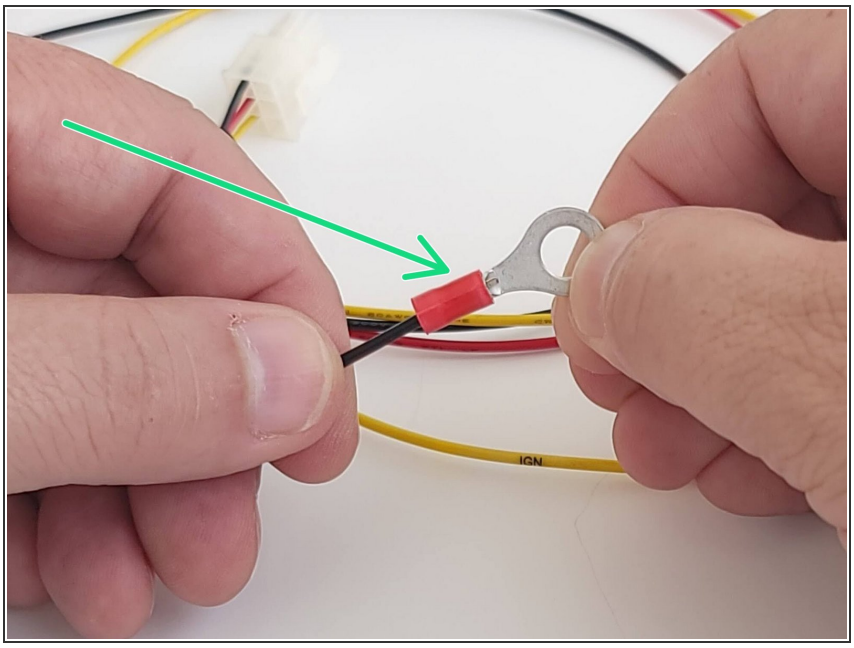
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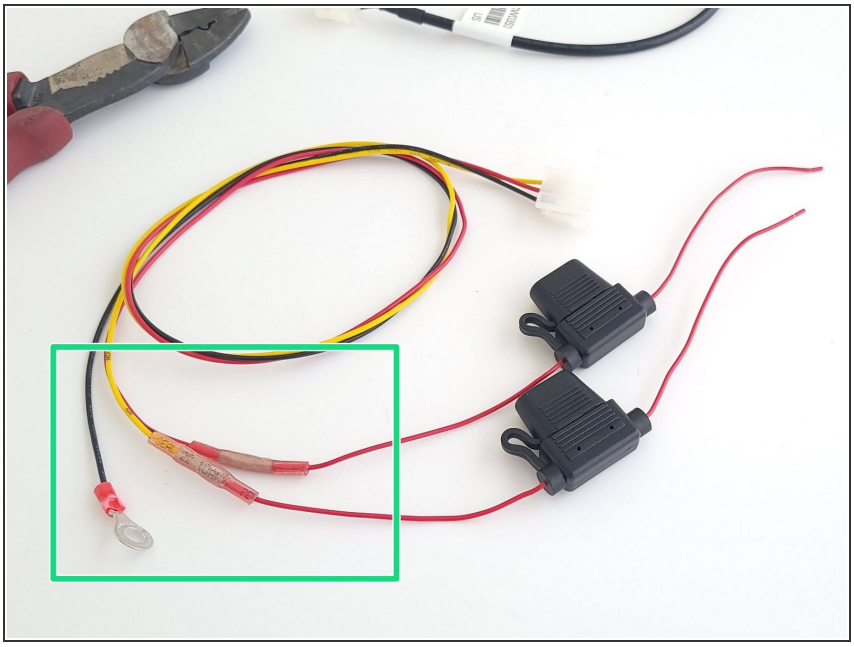


- Using your wire crimpers, attach the fuse holders on to the Red and Yellow wires using the included parts.
  - ⓘ The wires should come with the insulation pre stripped; ready for crimp on connectors.
  - Crimp one of the included ***butt splice*** connectors on to the end of the ***Yellow*** wire.
  - 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.



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



- The completed assembly should look like this.

⚠ ***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.

— Installation - Red Battery Wire





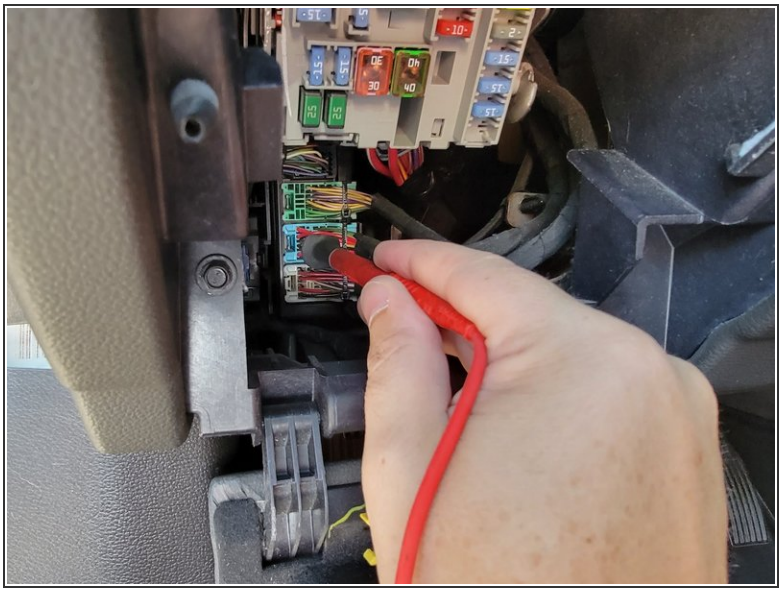
- Locate and verify a constant +12/24V Battery source.
  - ⚠ **Always use a Digital Multi Meter.**
  - ⓘ A suitable battery source will have +12/24V at all times, just like if you were to be connected directly to the battery.

ⓘ **Typical locations**

- Ignition switch.
- Fuse and power distribution panels.

— Installation - 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.

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— Installation - Black Chassis Ground Wire



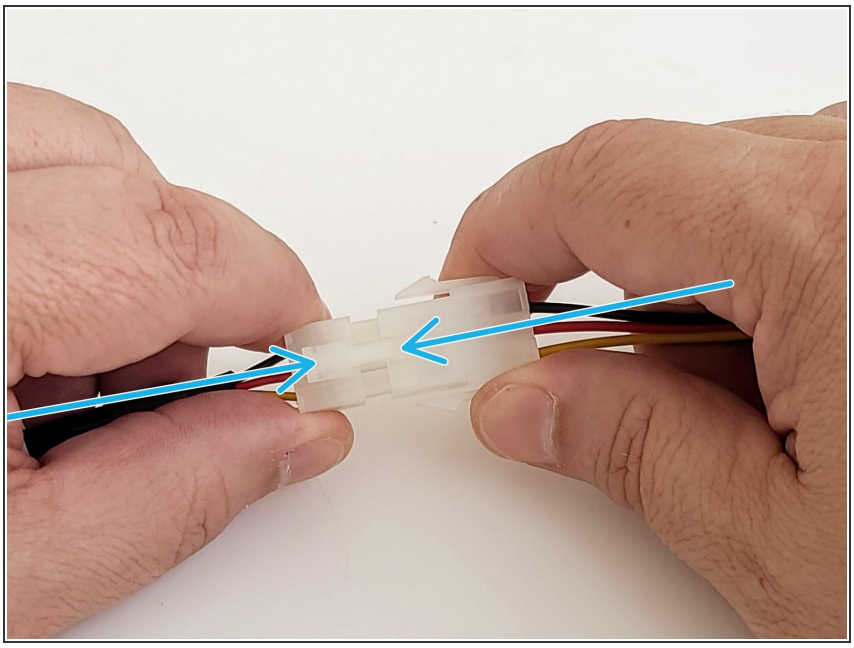
- Connect the ring terminal to a verified ground using a self tapping screw (not included) or existing bolt.

ⓘ 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-XCW03K3** harness together.

— GO10 LED Verification and Mounting

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

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— Plug in GO10 device.



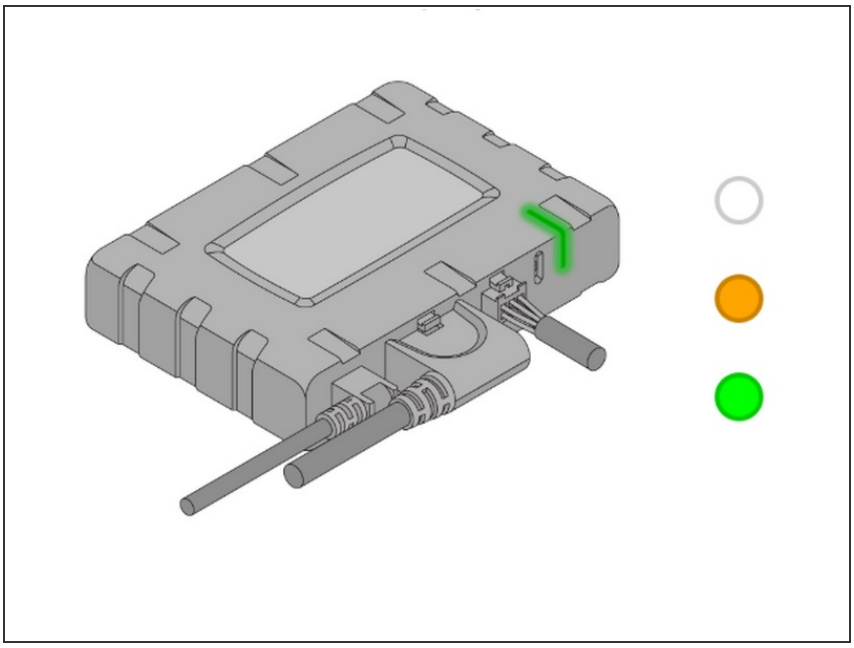
- Plug Harness into the GO Device.

ⓘ *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.

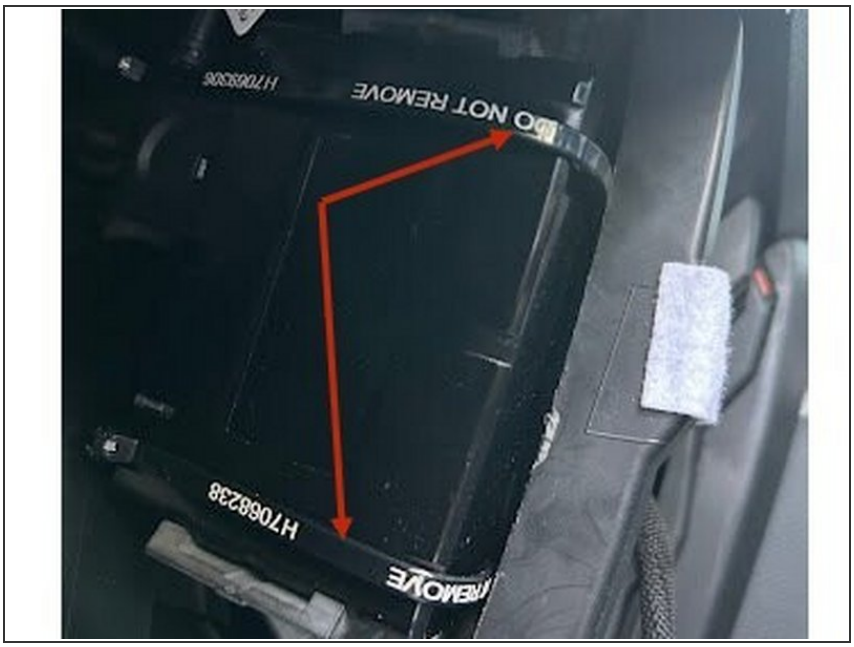


After 30 seconds, you should see a solid green light. If not, look for the LED pattern and troubleshoot using the below steps:

- 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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— 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!



⚠ **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