Geotab GO Device Installation - BMW X1

Step-by-step installation of a Geotab GO device on BMW X1 using HRN-GS16K22-A adapter.

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INTRODUCTION

This guide covers the installation of a Geotab GO device on a BMW X1 using an OBD2 **HRN-GS16K22-A** adapter. The **HRN-GS16K22-A** allows the Geotab device to tap into the vehicle's OBD2 port while preserving access for diagnostic tools. The installation does not require any permanent modifications to the vehicle.

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)

HARDWARE & ACCESSORIES:

- HRN-GS16K22 Standard 16-Pin T-Harness Kit (1)
- GO9 (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

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

⚠ 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 protrudes and interferes with 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 so may come loose with vibrations or accidental contact.
- An electrical harness or additional wiring is required.
- Vehicle mounting modifications are required to secure the device, i.e. removing of panels; deformed/damaged OBD connector; or physical damage 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.

⚠ **WARNING!** 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 collisions, leading to death or serious personal injury.

— Attention

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

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⚠ ***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.

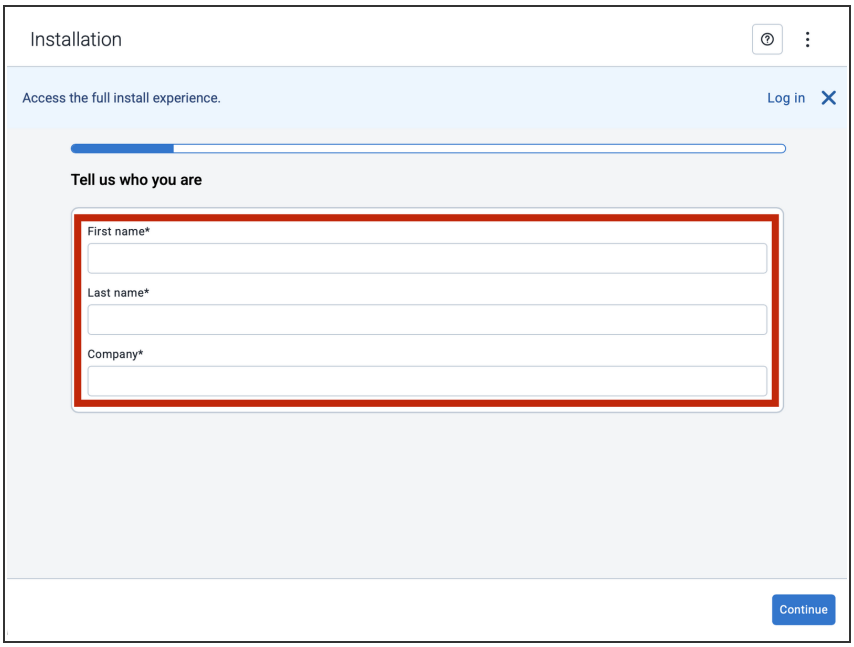
— MyInstall (Public)

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.

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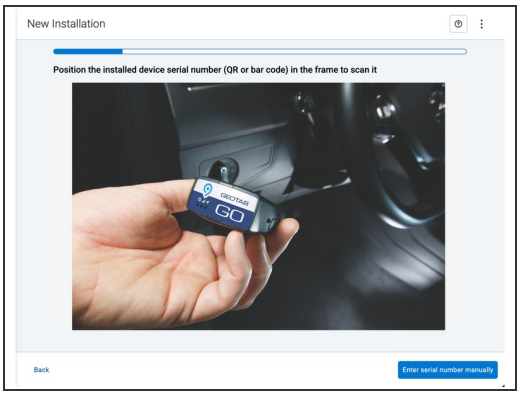
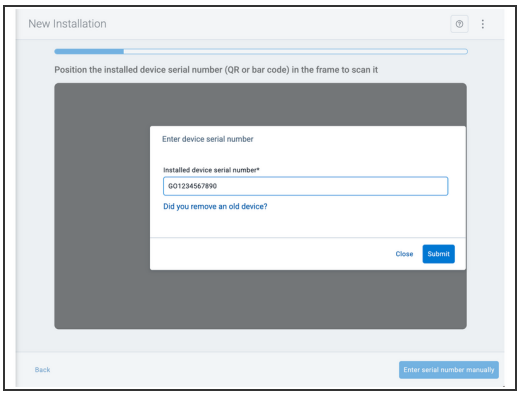
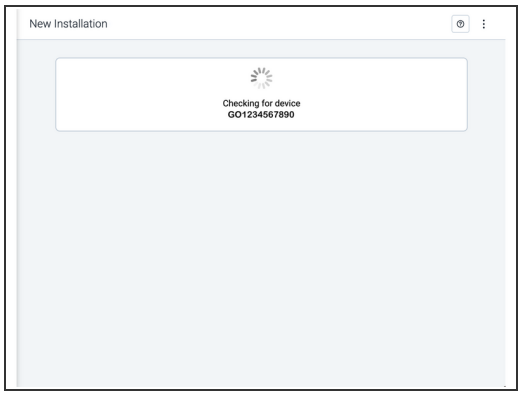




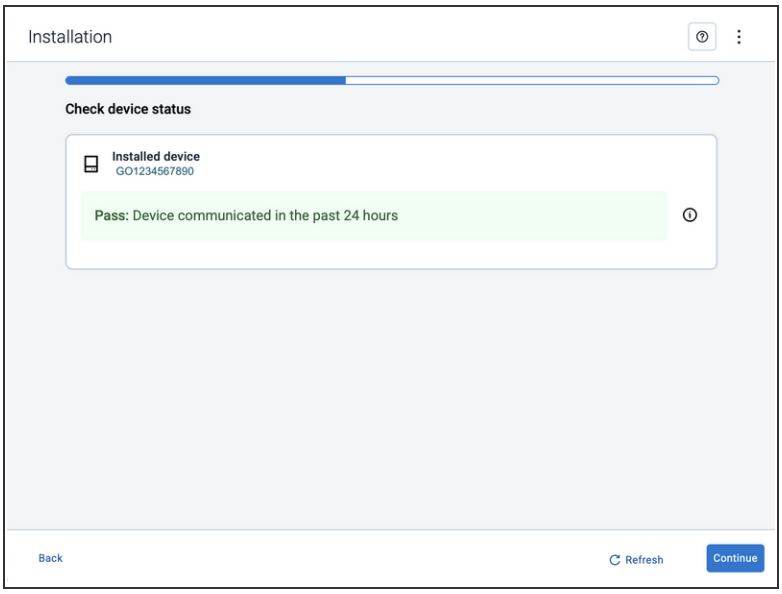


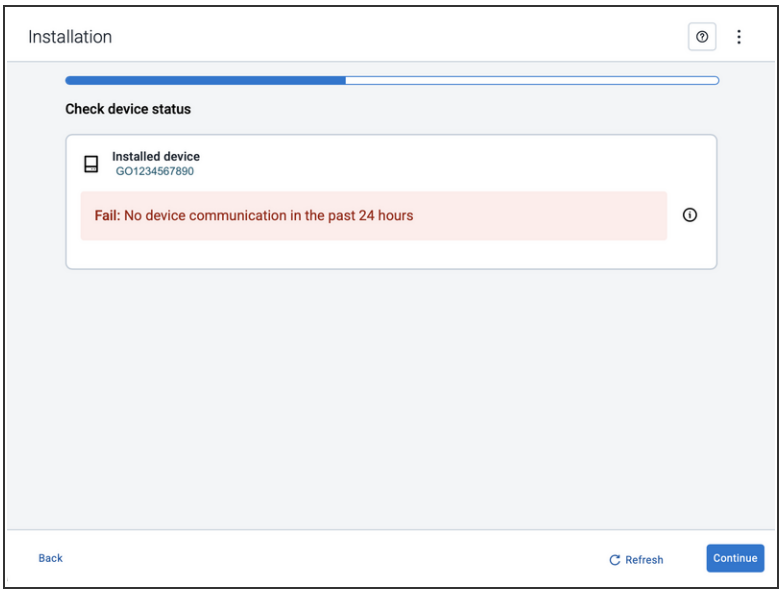
ⓘ Two options are available to enter the device serial number:

- 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.





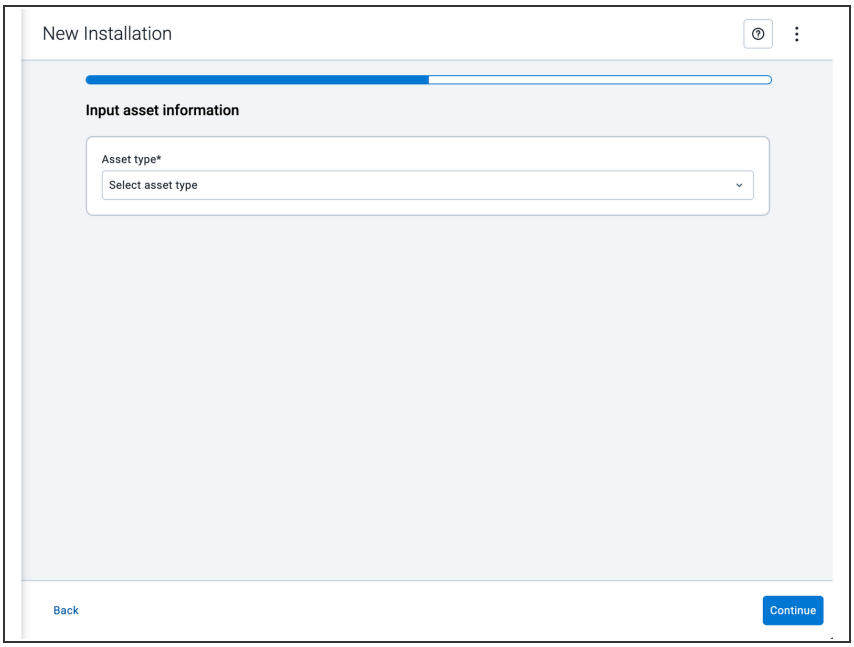
ⓘ Installed device

- **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.

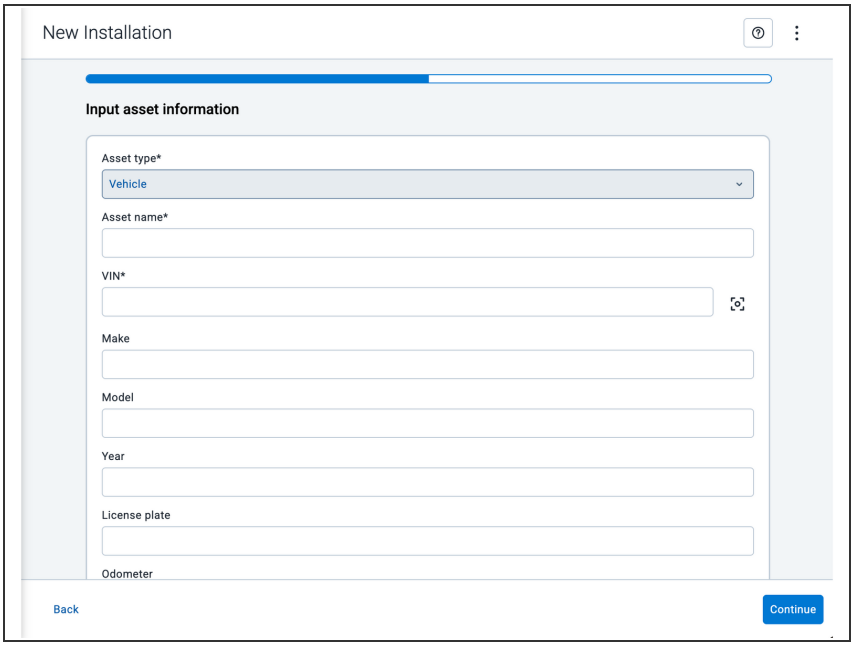
ⓘ Refer to the **MyInstall User Guide** for detailed instructions.



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** — Enter the vehicle odometer, and select the measurement unit (km or miles).
- **Engine hours** — 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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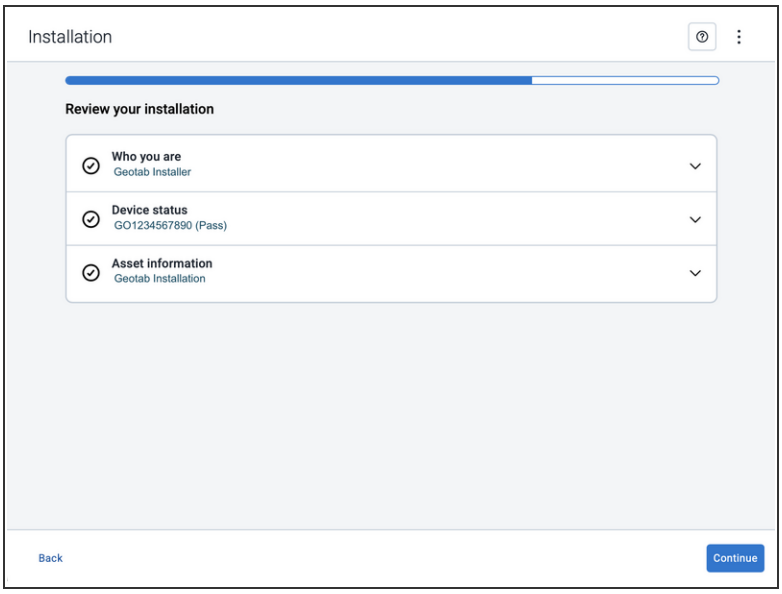

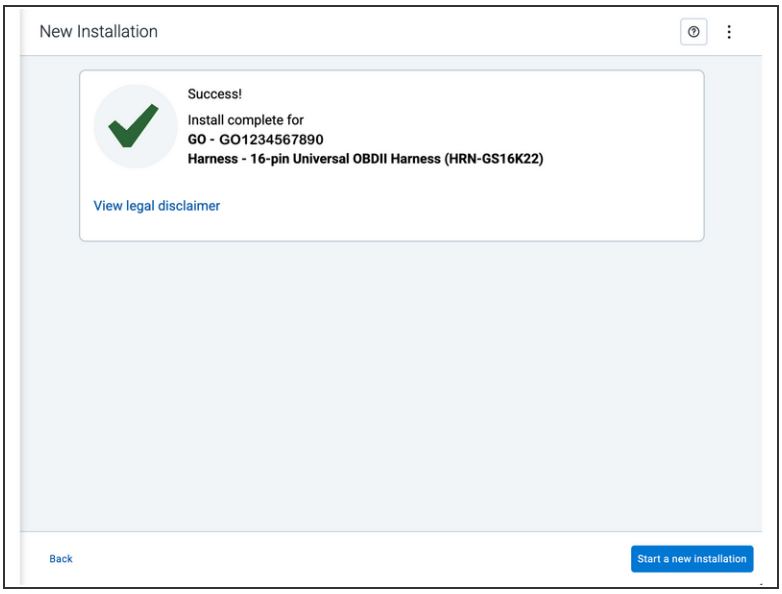

ⓘ Review details by clicking or tapping on any section. If needed, update or refresh any captured information.

- When you are ready to submit, select **Continue**.

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— Important Safety Information and Limitations of Use

ⓘ For the latest version of the 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.

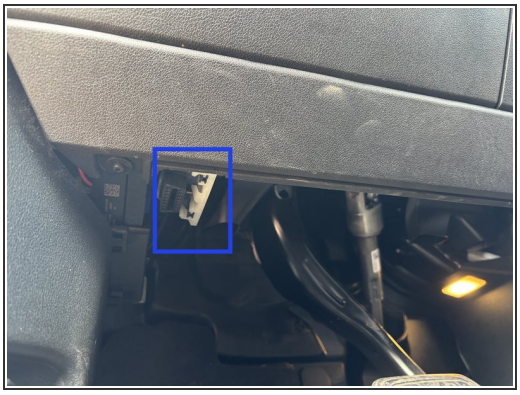
ⓘ The simplified EU declaration of conformity referred to in Article 10(9) shall be provided as follows:

- 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

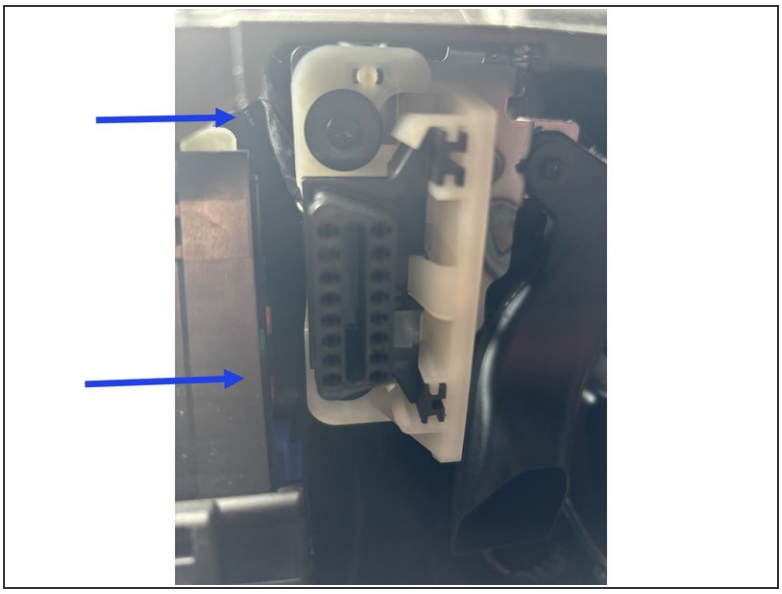
— Identify the Vehicle and Gather Tools

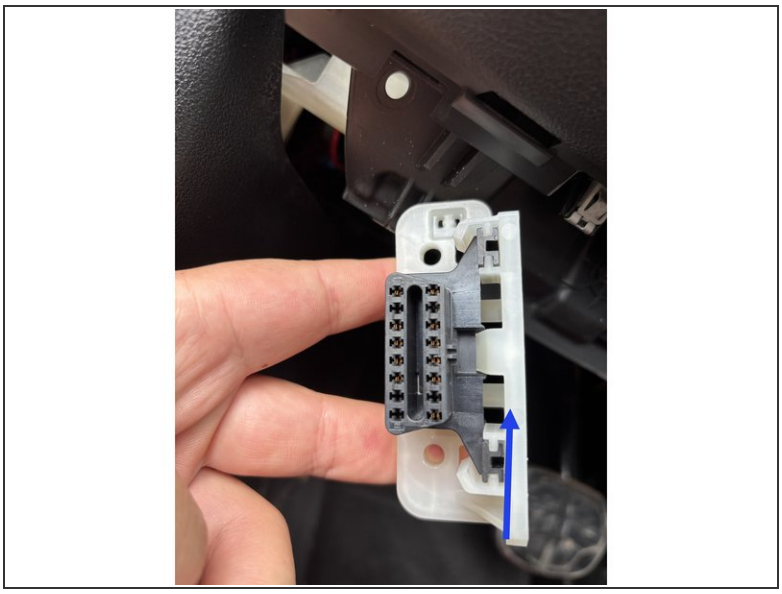




- Confirm the vehicle is a BMW X1. This guide applies to current-generation BMW X1 (F48/U11) models.
- Turn the ignition OFF and remove the key.
- The OBD2 port is located below the steering column, on the lower left side of the dashboard.

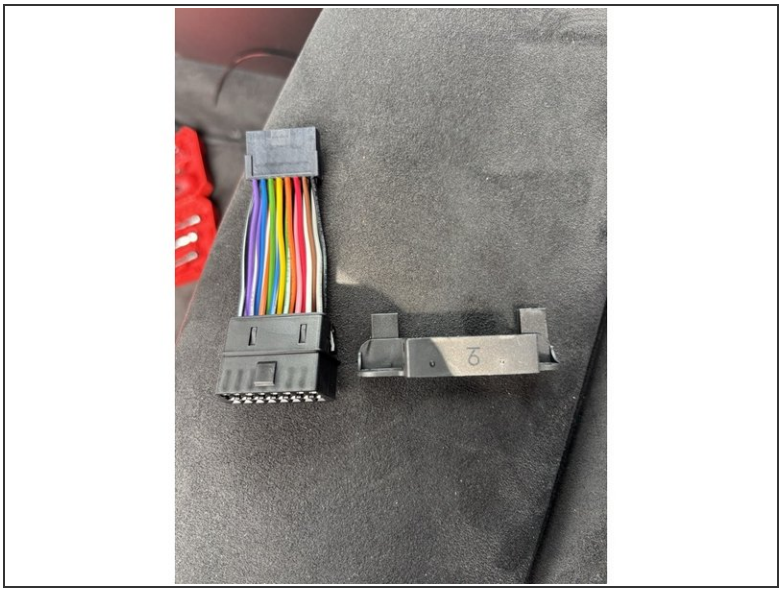
— Access the OBD2 Port

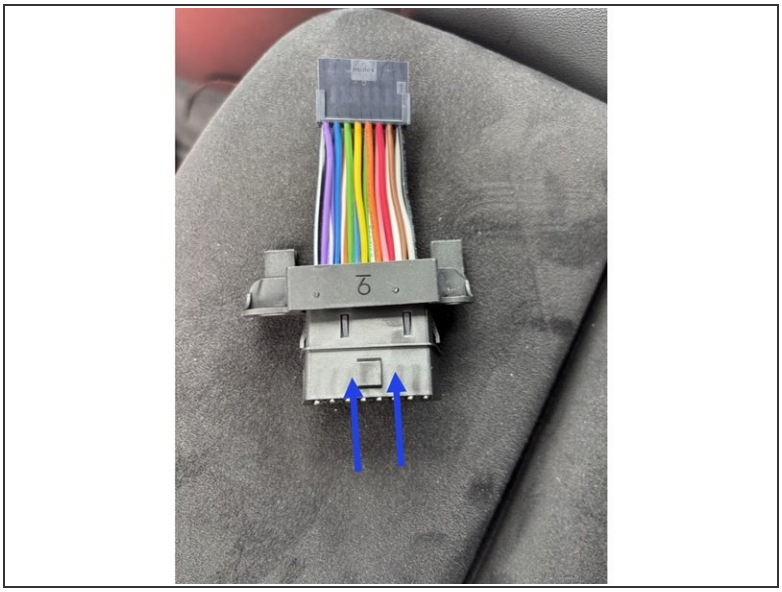




- Using Tx25 remove the two screws securing the OBD assembly.
- Press the clip that hold the OBD to the bracket in order to releas it.

— Prepare the OBD2 Y-Harness Adapter





- For this installation the adaptor number 6 will help to secure the **HRN-GS16K22-A**
- Slide the molex connector from the front side of the adaptor until it clicks.

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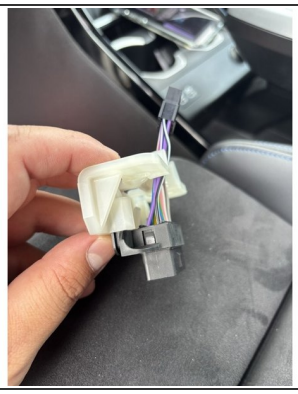
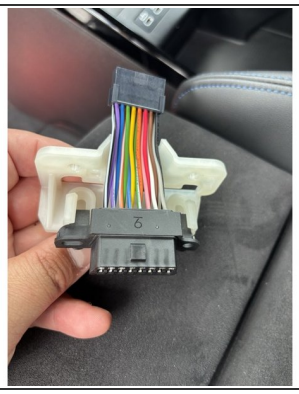
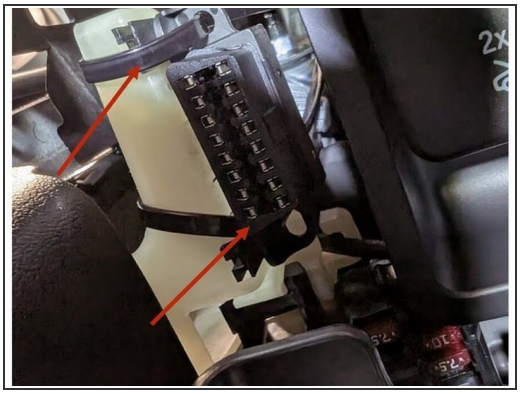
— Connect the Harness to the Vehicle OBD2 Port

- Plug the male end of the Y-harness into the vehicle OBD2 port. Push firmly until you feel a click.
- The harness female socket will now be accessible — this will be used to reconnect the factory OBD2 connector if needed.
- Route the GO device cable away from moving parts, pedals, and heat sources.

  ⚠ Verify the harness is fully seated — a loose connection may cause intermittent data or loss of power to the device.
- Use 2 cable ties to secure the adapter 9 to the vehicle by going through the holes in the adapter then around the piece that holds it.

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— Connect the Geotab GO Device



- Take the Geotab GO device (model GO-LTMB or applicable GO model) and connect it to the harness cable end.
- Verify the serial number on the device label matches the one registered in MyGeotab.
- Push the device connector firmly until fully seated.
  - The GO device serial number (SN) is on the label. You will need this to complete activation in MyGeotab.

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— Secure the Device and Reassemble





- Place the Geotab GO device in the under-dash cavity, positioned away from pedals, heat sources, and moving parts.
- Use zip ties to secure the device and cable bundle to a fixed under-dash bracket or rib.
- Trim any excess zip tie length with flush cutters to prevent sharp edges.
- Reinstall the lower dash trim panel by aligning the clips and pressing firmly until all clips snap into place.
- Turn the ignition ON and verify the device powers up (LED indicator on the GO device should illuminate).
  - ⓘ Confirm the vehicle appears in MyGeotab within 5-10 minutes of first power-on.

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