



Installation Guide

Nauto® 3 Device



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Overview

PURPOSE

The purpose of this document is to provide guidelines for the installation of the Nauto 3 Device. The installation guidelines, specifications, materials and examples provided in this document are for information purposes only, are non-exhaustive, and must not be relied upon for the specific installation in any vehicle. This guide is not intended to replace any regulatory requirements in the jurisdiction where the Nauto 3 Device is installed or used.

Before starting the Nauto 3 Device installation and configuring the system, please ensure that you have read this guide thoroughly. If you have any questions or concerns regarding the installation of the Nauto 3 Device, please contact Nauto Support at 1 (888) 628-8690 or support@nauto.com.

WARNING

This equipment may only be located in a position where it cannot interfere with the normal and safe operation of the vehicle, or present a hazard to the driver, or passengers. When routing all cables ensure that the insulation does not become worn or damaged. All cabling must be secured utilizing industry standard methods.

If you are unsure about the placement or installation of this equipment, stop work, and contact your Nauto representative immediately.

Under no circumstances should any part of the Nauto system be installed inside the engine compartment area.

This equipment should not be operated in hazardous environments, or in areas that contain explosive materials or flammable vapors.

This equipment should not be operated in aircraft or in close proximity to medical equipment.

Unauthorized changes or alterations to the equipment may invalidate the Nauto warranty and may also affect the vehicle manufacturer's warranty.

DISCLAIMER & SAFETY INFORMATION

Due to ongoing development, information and specifications may change at any time without notice. While the information is believed to be accurate, it may include errors or inaccuracies. Nauto shall not be liable for any use of this installation guide or information supplied in it.

The installation of the Nauto 3 Device may adversely affect other vehicle components or safety equipment. Nauto assumes no responsibility and disclaims any liability for any damage to any vehicle components or safety equipment, or bodily injury, that may arise due to installation or use of Nauto's products and services.

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Nauto shall not be liable for any damages, losses, costs or expenses, direct, indirect or incidental, consequential or special, resulting from the use of this installation guide.

This guide is not written for any specific vehicle since the proper wiring and installation of electronics differs for each vehicle. Installation should be completed by qualified individuals who are trained to wire electronics such as the Nauto 3 Device. It is your responsibility to know how to wire in electronics such as the Nauto 3 Device for your specific vehicle. Improper wiring may cause injury or damage and void the warranty. Any changes or modification to the Nauto 3 Device not expressly approved by Nauto or the entity responsible for compliance may void any warranties and your authority to operate the Nauto 3 Device.

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Installation Tool List

The following tools are recommended to perform installation of the Nauto 3 Device:

- ☐ **Digital multimeter with sharp leads** (or wire piercing leads)
- ☐ **T5 Torx driver with handle**
- ☐ **Electrical tape**
- ☐ **Wire strippers** (self strippers)
- ☐ **Wire crimpers** (capable of crimping insulated terminals)
- ☐ **Trim panel removal tool**
- ☐ **Crimp Connectors**
- ☐ **Zip/Nylon ties**
- ☐ **18AWG ring terminals**
- ☐ **Self-tapping screws**

Note: Vehicle specific tools may also be required.

Nauto Recommended Connection Methods

Connection Method	Description	Recommended Tools
<input type="checkbox"/> Poke & Wrap	Requires splicing into a low voltage wire for aconnection.	See above
<input type="checkbox"/> Posi-Tap	Requires posi-tap connectors to tap into wires without cutting or splicing.	Proper sized posi-taps
<input type="checkbox"/> Solder	Requires a heated tool to bond wires using a filler metal with low melting point.	Soldering iron
<input type="checkbox"/> Add a Fuse	Power splitter installed in the vehicle’s fuse box	Proper size fuse connection

Nauto Components

1. **Nauto 3 Device**

2. **Windshield Mounts**

3. **Mark Button** (see Mark Button Install Guide)

This is optional and may not be included.
If included, do not dispose of small bag with “MAC address” label.

4. **Fuse Holder** w/ 3amp fuse

5. **Power Cable**
2 versions: hardwire and OBD

6. **OBD Y-Cable**
This is optional and may not be included
-
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Installation | Power Source Connection

Locating Correct Vehicle Wires

1. Use a multimeter.
2. Set your multimeter to DC voltage.
3. Attach the negative (-) probe to the vehicle chassis ground.
4. Probe the wires you suspect of being the constant and ignition power sources.

Note: The Nauto 3 Device can support vehicles with a 24-volt power source

IMPORTANT

When searching for the correct wires, DO NOT use a test light style circuit tester. Damage to vehicle computers and vehicle air bag restraint systems may result from the use of a test light causing a short circuit.

Constant +12V or 24V Power Connection (Nauto 3 Device Red Wire)

1. Find a source of constant +12V or 24V under the dashboard of the driver side of the car.
 - a. There are multiple places where this can be found, and locations vary between vehicles. Plan your installation according to your needs. You may find specific wiring details by specific vehicle online, such as on The 12 Volt (www.the12volt.com).
 - b. Ensure that the wire you choose is a constant source of +12V or 24V. If you use a multimeter, it should show approximately 12V or better between your source and chassis ground regardless of the ignition switch position, open or closed doors, on or off lights and other accessories, etc.
2. Using your preferred connection method (poke & wrap, solder, or posi-tap), using the provided inline fuse holder, connect the red wire from the power cable to one side of the inline fuse holder, and the other to the source of +12V or 24V. Be sure NOT to permanently disconnect the 12V or 24V source from other circuits in the vehicle and take care to make a strong connection to survive vibration and temperatures.
 - a. Do not exceed the max amperage that the circuits fuse can handle, keeping in mind the cumulative amps of other after-market devices.

Ground Connection (Nauto 3 Device Black Wire)

1. Crimp or solder a ring terminal at the end of the black wire.
2. Connect it directly to a suitable metal spot on the vehicle's chassis to create a solid ground. One method that may be appropriate is using a self-tapping screw. The driver's kick panel under the dashboard is a common grounding area, or any painted metal surface.

Ignition Source (Nauto 3 Device White Wire)

1. Locate the wire that you suspect will have ignition power.
2. If you use a multimeter, probe the suspected wire with the meter lead to check:
 - a. There should be zero voltage. (key off)
 - b. With the key turned to the "ON" position in the ignition (do not start the vehicle), the wire should show 12 volts DC or more.
 - c. With the meter lead still probing the wire, start the vehicle. While the starter is cranking, the wire's voltage should not drop by more than 2 volts.
 - d. Turn the key to the "OFF" position. The voltage should return to 0.
3. Using your preferred connection method (poke & wrap, solder, or posi-tap), connect the white wire from the power cable to the source of Ignition. Be sure NOT to permanently disconnect the ignition source from other circuits in the vehicle and take care to make a strong connection to survive vibration and temperatures.
 - a. Do not exceed the max amperage that the circuits fuse can handle, keeping in mind the cumulative amps of other after-market devices.



WARNING

Do not plug harness into the Nauto 3 Device while making connections.

Installation | OBD Connection

OBD Port Connection (with Y-Cable)

1. Locate the OBD port within the vehicle, removing vehicle panels as necessary.
2. Gently remove the factory OBD plug from the mount.
3. Replace the vehicle's OBD port with the female end of the Nauto Y-cable.
4. If there was an existing device in the vehicle's OBD port, reconnect it utilizing the Nauto Y-cable.
5. Plug the male end of the Nauto Y-cable into the vehicle's OBD port. Ensure ignition is off when connecting.
6. Zip tie all connections to help ensure plugs will not disconnect.

OBD Port Connection (without Y-Cable)

1. Locate the OBD port within the vehicle.
2. Insert male end of the Nauto OBD power cable into the vehicle's OBD port

Installation | Power Cable Connection

Power Cable Connection

1. Locate the power end of the power cable, or the end with the small black block (see image for reference).
2. Leave 8-10" of the cable exposed at the rearview mirror and route the cable safely and securely to the power supply unit.
3. One way to do so that may be appropriate is as follows:
 - a. Start tucking the cable under the windshield headliner starting just above the rearview mirror.
 - b. The cable should be buried under the headliner so that it will not slide out or drop from the headliner.
 - c. Route the cable to the left (driver's side of the vehicle) and remove the A-pillar panel to route the cable around, behind, and away from all airbag components and related vehicle accessories.
 - d. Pull the door gasket away from the body of the vehicle and run the power cable into the channel near the pinch weld, but without crossing over the pinch weld, towards the power supply unit.
4. Bundle and secure all excess wiring so it will not interfere with vehicle and driver controls.
5. Mount the bundled cable in a secure location under the dash of the vehicle with zip ties.



Installation | Device Registration



Download the Nauto Installer App

from the App Store or Google Play store.

The screen displays the Nauto logo at the top. Below it, the text "Welcome to Nauto Installer" is followed by "Please sign into your account". There are two input fields for "Email" and "Password". A "Sign in" button is at the bottom. The version "Version 3.0.39" is shown at the very bottom.

1. Login

Your username and password will be provided to you prior to installation.

The screen has a green header with "Get started". It shows an illustration of a Nauto 3 device. Below the illustration are three buttons: "New installation", "Hot Swap Replacement", and "Replace a defective device". A "Sign Out" link is at the bottom.

2. Select "New Installation".

The screen has a green header with "New installation". It instructs the user to "Scan the QR code on the back of the device, or enter the serial number manually." It shows a diagram of the device with a QR code and a serial number field. The QR code is labeled "QR Code" and the serial number is labeled "Serial Number". A "Continue" button is at the bottom.

3. Scan QRCode.

The QR code is located on the back of the device. You may also manually enter the serial number, which is located next to the QR code on the Nauto 3 Device.

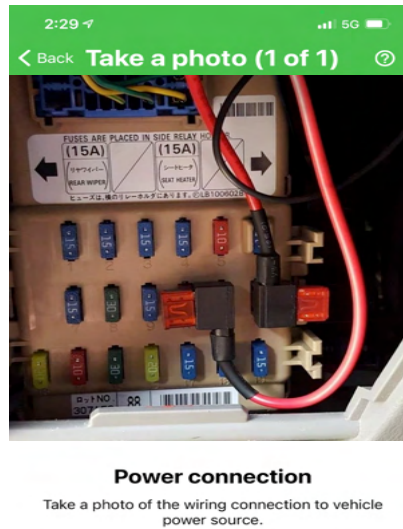
The screen has a green header with "Confirm fleet". It asks the user to "Please confirm the fleet you are going to install this device into below." It shows a world map with a selection point. A "Type fleet ID here" field is at the bottom. A "Continue" button is at the very bottom.

4. Review and confirm fleet name.

Note: if this unit was removed from another vehicle in a swap, you will be prompted to confirm.



5. Perform the installation



6. Take photo of connection and confirm

Take a clear unobstructed photo of the power connections made if hardwired. If connected via OBD, take photo of OBD connection. Once taken the app will ask you to confirm the photo.



7. Images from the device

The app will now communicate with the device to get live images to help properly align the device. See next page for more details.

Installation | Device Installation

1. Connect the Nauto 3 Device to power.

Insert the power cable end that extends from under the headliner into the device's power port. The Nauto 3 Device will now boot up.

2. Check for green lights on the device.

This can take up to one minute. Blue lights will appear on the device first, meaning the device is updating software, followed by flashing green lights indicating that it is in install mode.

3. Fit the windshield mount to the back of the Nauto 3 Device.

Select the appropriate angled mount that provides the best viewing angle. Do not remove the adhesive backing at this time.

4. Locate the small screw on the accessible side of the device.

Find this on the opposite side from the rearview mirror. Rotate the T5 screw clockwise to lock the Nauto 3 Device into place. The other screw will not be tightened.

5. Determine the optimal mounting location.

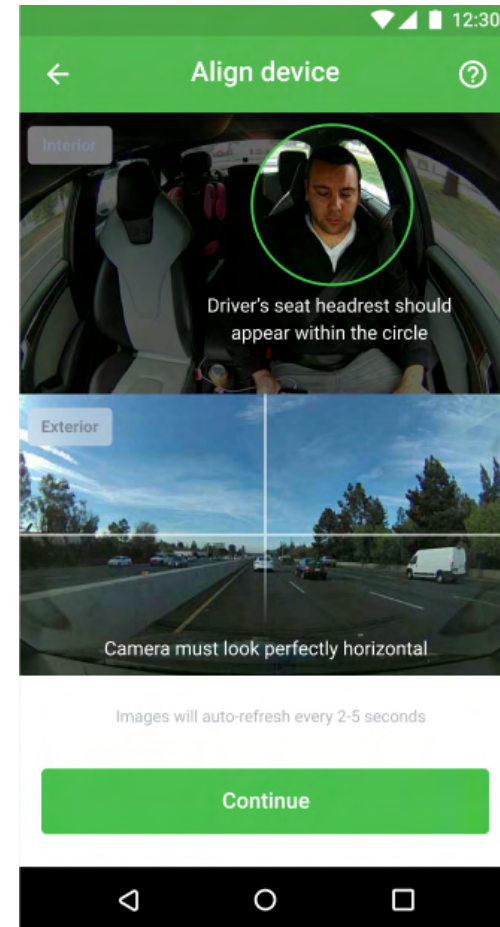
With the driver's side sun visor in the down position, locate an unobstructed location on the windshield away from any sensors, metallic surfaces, or tint.

6. Review live images from the Nauto 3 Device.

The Nauto Installer app will show live images from both interior and exterior cameras. This can take a few minutes. Use these images to adjust positioning of the camera for optimal viewing.

a) Driver facing camera should have a clear unobstructed view of the driver from head to waistline.

b) Forward facing camera should have a clear unobstructed and horizontal view. Little to no body panels should be visible.



Camera views during installation

7. Mark location for the Nauto 3 Device.

Using the live images as guidance, mark the location for the Nauto 3 Device on the windshield with tape or marker. For optimal device performance:

- a. The forward-facing camera should have a clear view of the front of the vehicle with no obstructions.
- b. The forward-facing camera should not be blocked by window tint or metal film found near the rearview mirror. If neither side of the rearview mirror will produce the desired result, please contact Nauto for additional options.
- c. The driver-facing camera should not be easily obstructed by the driver-side visor or other OEM or aftermarket equipment.
- d. If the device can be placed behind the rearview mirror, the driver-facing camera should be located halfway between the rearview mirror and the headliner.
- e. The cameras should not block any sensors or rearview mirror functions.
- f. The rearview mirror should maintain a full range of motion.

8. Clean the desired location using the provided swab.

Dry the area with a clean paper towel, removing all film and residue.

9. Peel the liner from the adhesive on the windshield mount.

10. Slowly align the device into position.

Check the live images on the app. If your view is properly aligned, gently press the whole assembly to the windshield.

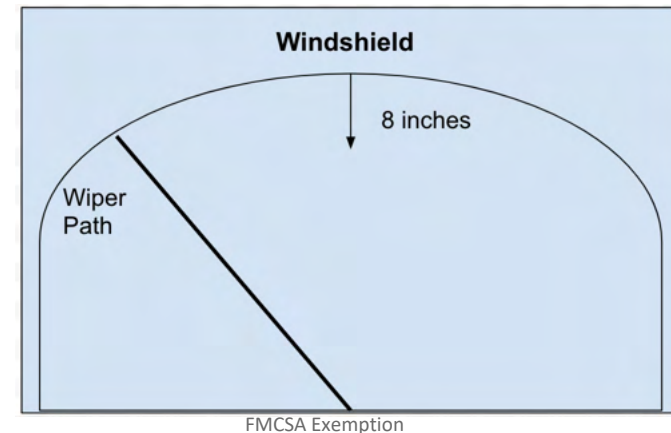
- Ensure that the top of the Nauto 3 Device is not touching the headliner
- If necessary for optimal placement, only allow a portion of the adhesive to be on the frit/metallization



Interior view of Nauto 3 Device

Important Note: Nauto has received an exemption from the FMCSA that allows for installation of the device up to 8 inches below the upper edge of the area swept by the windshield wipers, provided it remains outside of the driver's and passenger's normal line of sight to the road. This may allow you to place a device below the rearview mirror/monitor. Please confirm this placement is acceptable with the customer's fleet manager.

REMINDER: DO NOT EXCEED THIS 8-INCH LIMIT.



11. Press and hold.

Press and hold the complete mount to the windshield for at least 15 seconds. 15 seconds is the minimum time for the adhesive to adhere properly. Failure to properly secure the Nauto 3 Device may cause it to detach from the windshield, which may lead to catastrophic damage or injury.

12. Verify the mount and Nauto 3 Device are securely attached.

From the outside of the vehicle, verify that the bracket adhesive is completely attached. Press and hold for an additional 15 seconds if not. Please see picture to right for how adhesive should look from the outside.

13. Secure all dash panels.

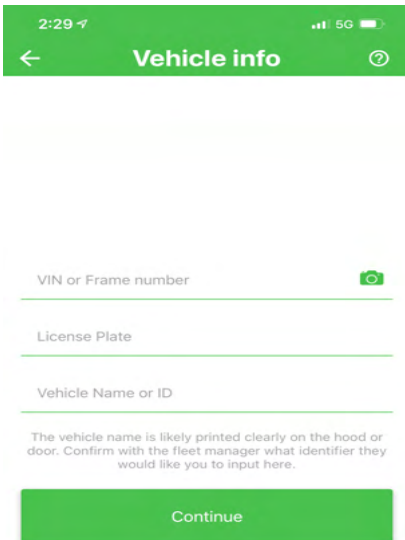
Make sure all cables are secure and out of the driver's view and movement.



Poor
attachment

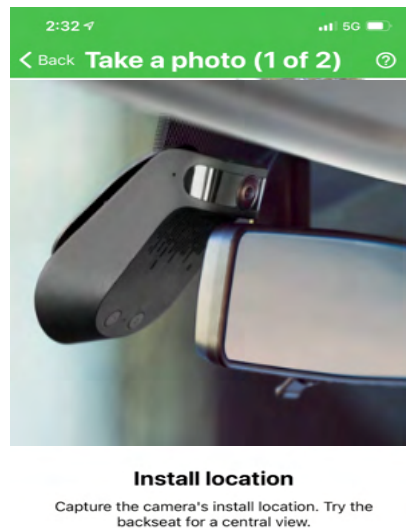
Poor
attachment

Good
attachment



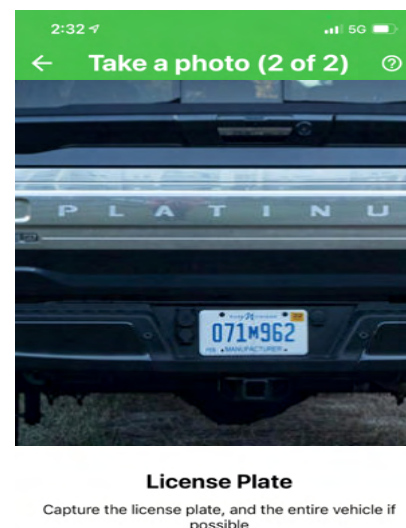
6. Enter vehicle information

Enter the vehicles VIN number, License Plate number, and the Vehicle Name or Asset ID. You may need to consult the fleet manager for this information.



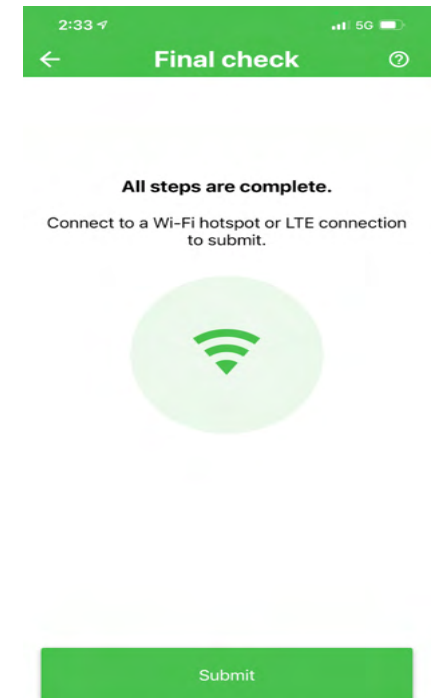
6. Take photo of camera location and confirm

From the driver's seat, capture a photo of the camera position on the windshield. Once taken the app will ask you to confirm the photo.



7. Take photo of license plate and confirm

From the back/front of the vehicle, capture a photo of the license plate. Once taken the app will ask you to confirm the photo.



8. Final check

After you have completed all steps, the app will ask you to submit the final check. You must be in LTE or WiFi for this to complete.

Additional Resources

Device LED Feedback

Solid Green: Ready and Functioning

Flashing Green: Device is in Install Mode

Flashing Blue: Device is downloading or installing updates

Orange: Searching for Cellular Network

Red: Possible Hardware issue (contact support)

Dim Red: Commonly confused as LEDS. These are infrared sensor for night mode.

Installation Video

<https://www.nauto.com/install>

For any questions or support



888.628.8690



support@nauto.com

Nauto Support is available Mon - Fri 6AM - 6PM PST.