

NAUTO® INSTALLATION GUIDE

Version May 2023







NAUTO® INSTALLATION GUIDE

Nauto Inc. May, 2023

THE NAUTO DEVICE SHOULD BE INSTALLED AND MAINTAINED BY QUALIFIED TECHNICIANS.

Only a properly qualified technician should install and maintain the Nauto device. Any electrical work should be performed only by an ASE (minimum T6 & L2), MECP or equivalent certified technician with an expertise in installing and troubleshooting advanced vehicle on-board components including multiplexed circuits. Nauto Inc. disclaims all responsibility for any damages arising from improper installation and maintenance of the Nauto device.

This guide is protected as confidential and proprietary information of Nauto Inc. Copying and use of this guide for any purpose other than installing the Nauto device in vehicles of Nauto Inc's customers is expressly prohibited. Information contained in this guide was in effect as of the date set forth above and is subject to change without notice or liability.

Nauto Inc. reserves the right to revise the information presented or to discontinue the production of parts described at any time.



TABLE OF CONTENTS

Section	Page
Safety Instructions	3
Introduction	5
Installer App Download	5
Nauto Equipment List	6
Nauto Device Installation	8
Installation Overview	8
Power Cable Routing	8
Power Source Connection	9
Installer App	11
Nauto Device Windshield Placement	14
Mounting the Nauto Device	17
Completing the Installation	18
Post Installation Verification	21
Installing the Mark Button	22
Nauto Device Removal	23
Nauto Device Vehicle Move	25
Nauto Device Troubleshooting	27
Nauto Device Description	27
Inward Facing LEDs Definitions	27
Troubleshooting Steps	28
Power Cycling a Nauto Device	29
Warranty Replacement Process	30
Appendixes	31
Appendix A - Diagrams	32
Appendix B - Optional Installation Accessories	36
Appendix C - Device Overview	37
Appendix D - Bracket Selection Guide	39

SAFETY INSTRUCTIONS

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 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.

THE INFORMATION IN THIS INSTALLATION GUIDE IS PROVIDED "AS IS" AND TO THE EXTENT PERMITTED BY LAW, IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT.

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 Device. It is your responsibility to know how to wire in electronics such as the Nauto Device for your specific vehicle. Improper wiring may cause injury or damage and void the warranty. Any changes or modification to the Nauto Device not expressly approved by Nauto or the entity responsible for compliance may void any warranties and your authority to operate the Nauto Device.

This installation guide contains proprietary information that is protected by copyright. All rights are reserved. This guide may not be copied, reproduced, or translated into another language without Nauto's prior written consent.

INSTALLATION SAFETY WARNINGS

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.

WARNING: Substituting or supplementing components may impair suitability and performance. If you are missing any components contact Nauto Customer Support at **888-628-8690** or email **Support@Nauto.com**.

DRIVER SAFETY WARNINGS

DISCLAIMER: The Nauto AI system is a driver information system. It is not a collision avoidance system and has no control over the vehicle or its driver. The driver is always responsible for exercising independent judgment, retaining control of the vehicle, remaining engaged with the driving task, and driving in a safe manner, at the appropriate speed, with an appropriate distance to other vehicles, and in accordance with current traffic laws and regulations. Overconfidence due to, or reliance on the presence of, a driver information system can lead to serious accidents including property damage, bodily injury, or death.

WARNING: The Nauto AI system cannot detect all types or instances of distractions, drowsiness, fatigue, tailgating, collisions, or other safety events. The Nauto AI system will not issue an alert if a safety event is not detected. Safety events may not be detected due to a variety of reasons, including video obstructions or artifacts, weather conditions, lighting, unrecognized objects, malfunctions, etc. In addition, in certain circumstances the Nauto AI system may not correctly detect the driver's state, may not sound an alert even if a safety event is detected, or the alert even if sounded is inaudible or misunderstood, including due to loud music, misconfiguration, alert timings, etc. The foregoing list does not represent an exhaustive list of situations that may interfere with the proper operation of the Nauto AI system. The Nauto AI system may fail to detect safety events or fail to provide alerts for many other reasons. The driver is at all times solely and independently responsible for the safe operation of the vehicle and the avoidance of all collisions. Unsafe operation of the vehicle or a failure to avoid collisions may result in serious accidents including property damage, bodily injury, or death.

ADHERENCE TO APPLICABLE LOCAL, STATE, AND FEDERAL LAWS

WARNING: Some jurisdictions, regions, or countries have adopted, or in the future may adopt, laws that prohibit objects from being mounted on a vehicle's windshield or in other locations in a vehicle. You are responsible for complying with these laws, and Nauto, Inc. does not accept responsibility for failure to do so.

INTRODUCTION

The purpose of this document is to provide guidelines for the installation of the Nauto 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 device is installed or used.

Before starting installation of the Nauto device and configuring the system, ensure that you have read this guide thoroughly.

If you have any questions or concerns regarding the installation of the Nauto device, contact Nauto Support at:

- Email: Support@Nauto.com
- Phone: 1•888•628•8690 (5am PST 6pm PST M-F)

If looking for additional installation content, contact the Nauto Support Team at: **Support@nauto.com**.

INSTALLER APP DOWNLOAD

INSTALLER APP DOWNLOAD



Download the Nauto Installer app from the App Store or Google Play store. The Nauto Installer app is required for every device installation. Follow the QR codes below to download the Nauto Installer app from your respective app store, or from within your app store, search keyword "Nauto Installer."

Download the Android App



Download the iOS App



Scan this code for the Android download

Scan this code for the iOS download

Once installed, open the Nauto Installer app and login with your Nauto account. If you do not have login information, contact Nauto Support at **1-888-628-8690**.

NOTE: It is not possible to complete the installation of the Nauto Device without access to the Installer app.

NAUTO EQUIPMENT LIST

INSTALLATION COMPONENTS - OBD-II



NAUTO DEVICE INSTALLATION

INSTALLATION OVERVIEW

Once you are ready to install the Nauto device, follow the steps outlined below.

- 1. Ensure all installation components are present
- 2. Route Power Cable
- Make power connections (OBD port for OBD-II installation or constant, ground, and ignition for hardwire)
- 4. Launch Installer App and follow the steps to begin registering device
- 5. Choose windshield mounting location and verify images in installer app
- 6. Mount camera to windshield
- 7. Complete device registration in the installer app
- 8. Complete post installation verification steps

Now let's look at these individual steps in more detail.

POWER CABLE ROUTING

Begin by routing the power cable. To do this:

- 1. Locate the device end of the power cable. (*The end with the small black block.*)
- 2. Leave 8"-10" of the cable exposed at the rear-view mirror and route the cable safely and securely to the power connection location.
- 3. One way that may be appropriate to do so 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 A-pillar (*driver's side of the vehicle*) and remove the A-pillar panel and 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 connection location.

POWER SOURCE CONNECTION

OBD CONNECTION

OBD Suggested Tools:

- T5 Torx Bit/Driver
- Panel Pry Tool

• Zip Ties

NOTE: Additional tools may be necessary for specific vehicle installations.

EXAMPLE: You can find an example diagram of the OBD connections in <u>Appendix A</u>.

OBD Port Connections (with Y-Cable)

- 1. Locate the vehicle's OBD port, removing vehicle panels as necessary.
- 2. Gently remove the factory OBD plug from the vehicle's OBD port mount.
- 3. Attach the male end of the Nauto Y-cable to the vehicle's OBD port.
- 4. Plug the other male end of the Nauto OBD power cable into the female end of the Nauto Y-cable. Ensure ignition is "Off" when connecting.
- 5. Using the supplied <u>adapter bracket</u>, insert the remaining end on the Nauto Y-adapter into the vehicle's OBD port mount.
- 6. Zip tie all connections to help ensure plugs will not disconnect.

OBD Port Connection (without Y-Cable)

- 1. Locate the OBD Connector port within the vehicle.
- 2. Plug the Nauto OBD power cable into the vehicle's OBD Connector port.



INSTALLER APP

Once you have the device cable routed and power supplied to the device, launch the Installer app you downloaded earlier and follow the directions below. If you need to download the Installer App, follow the directions in the <u>Installer App Download</u> section.



NAUTO DEVICE INSTALLATION

🚺 nauto[®]

→ INSTALLER APP



NAUTO DEVICE INSTALLATION

🚺 nauto[®]

→ INSTALLER APP



NAUTO DEVICE WINDSHIELD PLACEMENT

- 1. Connect the Nauto device to power. Insert the power cable end that extends from under the headliner into the device's power port. The Nauto 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, which means the device is updating software, followed by solid green lights indicating that it is ready to install.
- 3. Fit the windshield mount to the back of the Nauto device. Select the appropriate angled bracket that provides the best viewing angle. (see <u>Bracket Selection Guide</u>) Do not remove the adhesive backing at this time.
- 4. Locate the small screw on the accessible side of the device. The accessible side of the device is the side opposite of the side closest to the rear view mirror. Rotate the T5 screw clockwise to lock the Nauto device into place. The screw closest to the rear view mirror will not be tightened.
- 5. When you are ready to mount the Nauto device, follow the device guidelines and procedures outlined in the next section to get optimal coverage from both internal and external cameras.

IMPORTANT NOTE: The Federal Motor Carrier Safety Administration (FMCSA) allows for installation of the Nauto device up to 8.5 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 rear-view mirror/monitor. Please confirm this placement is acceptable with the customer's fleet manager.



Do not exceed the 8.5 inch limit.

RECOMMENDED: Mounting the camera on the passenger side is the preferred location to avoid the driver's visor from blocking the internal facing camera.

Using the live images from the Nauto Installer app as guidance, mark the location for the Nauto Device on the windshield with tape or a marker.

NAUTO DEVICE INSTALLATION

🚺 nauto[®]

→ INSTALLATION APP



 Images from the device - The app will now communicate with the device to get live images to help properly align the device. Once image/ placement looks good, select 'They look good'.

For optimal device performance:

- The forward-facing camera should have a clear view of the front of the vehicle with no
 obstructions
- The forward-facing camera should not be blocked by the window tint or metal film found near the rear-view mirror. If neither side of the rear-view mirror will produce the desired result, please contact Nauto for additional options
- The driver-facing camera should not be easily obstructed by the driver-side visor or other OEM and aftermarket equipment

The image below is an example of an ideal cab view for the Nauto interior facing camera. The driver is fully visible, both hands and face. There is no obstruction either from mirrors, visors, or any other vehicle obstacles.



For optimal Interior view:

- The Driver-facing camera should be located halfway between the rear-view mirror and the headliner
- The cameras should not block any sensors or rear-view mirror functions
- The rear-view mirror should maintain a full range of motion

MOUNTING THE NAUTO DEVICE

Check the live images via the Installer app.

- · Ensure that the top of the Nauto device is not touching the headliner
- If necessary for optimal placement, a small portion of the adhesive can be placed on the frit/metalization



Nauto Camera in an appropriate position

Adhere Device

Once you have the location for the Nauto device marked, peel the liner from the adhesive on the windshield mount. Slowly align the device into position marked. Press and hold the mount completely to the windshield for at least 15 seconds. This is the minimum time for the adhesive to adhere properly.

Failure to properly secure the Nauto Device may cause it to detach from the windshield, which may lead to catastrophic damage or injury.

From the outside of the vehicle, verify that the bracket adhesive is completely attached. If it is not completely attached, press and hold for an additional 15 seconds.



Poor Attachment



Poor Attachment



Proper Attachment

COMPLETING THE INSTALLATION

Next, return to the Installer app to complete the installation.

NOTE: Images will be uploaded via an LTE connection, unless you connect to a Wi-Fi network.

8. Enter the vehicle license plate and vehicle name - Confirm with the fleet manager the vehicle identifier for Vehicle Name or ID.	Vehicle info Vin or Frame number License plate Which is informer or ID The vehicle name is likely printed clearly on the hood or door. Confirm with the fleet manager what identifier they would like you to input.
9. Scan the VIN bar code - If vehicle is equipped with VIN bar code, select the camera option to scan the bar code, otherwise manually enter the VIN.	Conversion of the second

NAUTO DEVICE INSTALLATION

N nauto[®]



NAUTO DEVICE INSTALLATION

N nauto[®]



POST INSTALLATION VERIFICATION

Once you have completed all the steps in the Installer App, conduct a post installation verification as follows:

- 1. Ensure all vehicle panels are replaced and secure.
- 2. Ensure all wire connections are secured and zip-tied away from any moving OEM components (e.g. Brake/Gas/Clutch Pedal, Steering column, Parking Brake, etc.).
- 3. Ensure all wiring is secured and non-visible.
- 4. While sitting in the drivers seat in a normal driving position, ensure the interior camera lens is not blocked by the normal use of the rear-view mirror and driver's visor.
- 5. Ensure external facing camera is not blocked by anything on the windshield.
- 6. Ensure camera external LED is green.

INSTALLING THE MARK BUTTON



The mark button is a Bluetooth device that may be included with the Nauto device. The button is designed to enable drivers to initiate uploads of video to the cloud.

- 1. Turn Mark button ON. Locate the switch on the back side of the device and toggle it to the "On" position. It may take up to 30 seconds for the Mark Button to connect to the Nauto Device via Bluetooth.
- 2. Confirm connection. Review the LED light on the Mark button when pressed. A green LED should activate upon press.
 - a. If the LED begins blinking, the Mark button has not been paired correctly. You will need to activate manual pairing by pressing both volume buttons on the Nauto Device for at least 5 seconds or until the LED lights on the device flash blue. The Nauto Device will then search for a Mark button to pair with. Confirm the connection by pressing the Mark button until the green light no longer blinks.
- **3. Clean and dry installation location**. Ensure the area where the Mark button will be placed is thoroughly cleaned and dried with an alcohol swab prior to attaching the Mark button.
- **4.** Attach the Mark button. Using the provided Velcro, mount the Mark button in the vehicle. Consult with the fleet manager for preferred Mark button placement.

NOTE: The image to the right indicates button in the 'on' position.





NAUTO DEVICE REMOVAL

IMPORTANT: It is recommended to have the Nauto device removed by a professional installer to minimize both the risk of damage to the vehicle or the Nauto camera as well as injury to yourself. Contact <u>Support@Nauto.com</u> or call 1 (888) 628-8690 for assistance in scheduling a removal by a qualified Nauto installer.

SUPPLIES NEEDED

- Acetone wipes
- Panel removal tool
- Adhesive tape removal tool
- Razor blade

A kit can be supplied by Nauto Support if needed. Vehicle specific tools may be required. To remove the Nauto device:



4. Pull down the A pillar panel while being sure to not damage any of the retaining clips. Some vehicles may have screws holding the panel, so proper care must be taken to ensure the panel is opened without damaging it. A panel removal tool may be helpful in releasing the clips. Once the cabling is free from the A pillar, re-secure the A pillar panel.

NOTE: If the cable was incorrectly routed around the airbag it is critical to remove the cable in a manner that does not disrupt any of the vehicle's equipment.

5. Remove the rest of the cabling following it to its three wired connections. You will need to remove the three wires from their connection points. This may leave a vehicle wire exposed. If this is the case, wrap exposed portion with electrical tape, and secure the tape with a zip tie. The ground wire (black) might be secured to a metal location with a self tapping screw, simply remove this.

NOTE: If device was connected to the OBD port with a Y-adapter, remove the Y-adapter and replace the OEM OBD connector to the OEM mount location.

NOTE: Depending on the version of your device, you may need to also remove the power box, which will be in-line between the camera and the power connections.





6.	Using a razor blade, remove any excess adhesive
	from the windshield.







NOTE: Please refer to <u>nauto.com/uninstall</u> for a video example of the removal process.

NAUTO DEVICE VEHICLE MOVE

Once you have uninstalled the Nauto device, open the installer app and follow the instructions below to move the device to a new vehicle.



NAUTO DEVICE VEHICLE MOVE

N nauto[®]



When you are ready to proceed with installation, please follow the steps as outlined in the <u>Device Installation</u> section.

NAUTO DEVICE TROUBLESHOOTING

NAUTO DEVICE DESCRIPTION

The Nauto Device is not ignition based. The device will power on after the vehicle has started to move, and will enter a sleep state 5 minutes after the vehicle has come to a complete stop. If you are unable to move the vehicle, the device can be powered on by motion. Once the device is powered on the outward facing LED will remain lit as long as the device is connected to a power source. You have approximately 5 minutes before the device will enter a sleep state. If no lights are present, verify that the device is plugged in. If the outward facing light is not illuminated after attempting to wake the device, contact Nauto Customer Support for further assistance.

If remounting a device, see Nauto Device Vehicle Move.

LED	Description	Device
Green LED	The camera is powered on and ready to capture events.	
Blue LED	The camera is receiving updates.	
Red LED	The camera is experiencing an issue. See ' <u>Troubleshooting Steps</u> '.	
Yellow LED	The camera is searching for an LTE signal. The vehicle should be moved to another location.	
Dark/Dim Red	Camera is in 'night' mode for night time recording (should only be seen in low light situations).	

INWARD FACING LED DEFINITIONS

TROUBLESHOOTING STEPS

The Nauto device requires little maintenance and has limited options for customer self-service troubleshooting. To troubleshoot the Nauto device, the following actions should be taken.

N2 TROUBLESHOOTING STEPS

ISSUE	Camera External Green LED is off	
POSSIBLE CAUSE	TROUBLESHOOTING ACTION	EXAMPLES
Device is not receiving the correct voltage for operation.	 Confirm the white power plug is fully seated into the back of the camera. (<i>fig A</i>) Confirm the harness is connected to the power converter under the dash. (<i>fig B</i>) Confirm there is no physical damage to the power harness between the camera and power converter connections. If physical damage is identified contact Nauto Support. Confirm Green LED on power converter is illuminated. (<i>fig C</i>) *If all above troubleshooting actions are confirmed to be correct, contact Nauto Support. 	

NAUTO DEVICE TROUBLESHOOTING

N nauto[®]

→ N2 TROUBLESHOOTING STEPS

ISSUE	Power Converter LED is off	
POSSIBLE CAUSE	TROUBLESHOOTING ACTION	EXAMPLES
Power converter is not receiving the correct voltage for operation.	 Verify the wiring is properly connected. Red wire is connected to 12v constant. Yellow wire is connected to a switched Ignition source. Black wire is connected to a solid ground source. If in-line fuses were used, verify fuse is in good working condition. (<i>fig D</i>) If add-a-fuse circuits were used, verify all fuses, including OEM fuse, is in good working condition. *If all above troubleshooting actions are confirmed to be correct, contact Nauto Support. 	D Good Bad
ISSUE	Internal LEDs are Yellow	
POSSIBLE CAUSE	TROUBLESHOOTING ACTION	EXAMPLES
Device is searching for cellular network/ LTE.	 Ensure the vehicle is in an area that has adequate cellular coverage. Ensure the vehicle is outdoors. Drive the vehicle to help the device find cellular coverage. *If all above troubleshooting actions have been completed, contact Nauto Support. 	

NAUTO DEVICE TROUBLESHOOTING

N nauto[®]

→ N2 TROUBLESHOOTING STEPS

ISSUE	Internal LEDs are Red	
POSSIBLE CAUSE	TROUBLESHOOTING ACTION	EXAMPLES
Device has identified a potential issue.	 Perform a soft pin reset. a. Locate the small pin hole on the front of the device. b. Using a small pin, insert the pin into the hole and depress the button for 3 seconds. (<i>fig E</i>) c. If LEDs return to red, perform a hard reset. Perform a hard reset. Using a T5 Torx bit, release the device from the windshield bracket. b. Locate and unplug the white power plug from the back of the device. c. After 5 minutes, plug the white power plug into the back of the device. d. Reattach the device to the windshield bracket and secure with T5 Torx bit. 	

N3 TROUBLESHOOTING STEPS

ISSUE	Internal LEDs are Off	
POSSIBLE CAUSE	TROUBLESHOOTING ACTION	EXAMPLES
Device is in sleep mode	Turn the vehicle on, and drive the vehicle to create motion.	
POSSIBLE CAUSE	TROUBLESHOOTING ACTION	EXAMPLES
Device is not receiving the correct voltage for operation.	 OBD Connection Confirm OBD is fully plugged into vehicle OBD port. Hardwire Connection Confirm the white power plug is fully seated into the back of the camera. (<i>fig A</i>) Confirm there is no physical damage to the power harness between the camera and power connections. If physical damage is identified contact Nauto Support. Verify the wiring is properly connected. Red wire is connected to 12v constant. White wire is connected to a switched Ignition source. Black wire is connected to a solid ground source. If in-line fuses were used, verify fuse is in good working condition. (<i>fig B</i>) If add-a-fuse circuits were used, verify all fuses, including OEM fuse, is in good working condition. 	

NAUTO DEVICE TROUBLESHOOTING

N nauto[®]

→ N3 TROUBLESHOOTING STEPS

ISSUE	Internal LEDs are Yellow	
POSSIBLE CAUSE	TROUBLESHOOTING ACTION	EXAMPLES
Device is searching for cellular network/ LTE.	 Ensure the vehicle is in an area that has adequate cellular coverage. Ensure the vehicle is outdoors. Drive the vehicle to help the device find cellular coverage. *If all above troubleshooting actions have been completed, contact Nauto Support. 	
ISSUE	Internal LEDs are RED	
POSSIBLE CAUSE	TROUBLESHOOTING ACTION	EXAMPLES
Device has identified a potential issue.	 Perform a soft pin reset. a. Locate the small pin hole on the front of the device. b. Using a small pin, insert the pin into the hole and depress the button for 3 seconds. (<i>fig C</i>) c. If LEDs return to red, perform a hard reset. Perform a hard reset. a. Using a T5 Torx bit, release the device from the windshield bracket. b. Locate and unplug the white power plug from the back of the device. c. After 5 minutes, plug the white power plug into the back of the device. d. Reattach the device to the windshield bracket and secure with T5 Torx bit. 	<image/>

If the above steps do not yield any results and the device is displaying no lights, please follow the steps in the '<u>Power Cycling</u>' section.

POWER CYCLING A NAUTO DEVICE

Power cycling a Nauto device functions to push the unit through a reboot process. This reboot allows any non functioning unit to run a full diagnostic and pick up any missed updates. Power Cycling is needed if a unit has a "never connected" state or if the unit has no interior LEDs.

NOTE: If the unit is displaying red led lights this indicates possible hardware issues. Power cycling would not be a step in this instance.

- 1. Removing the camera from the bracket. Using a T5 Torx bit and driver, loosen the set screws located on either side of the bracket adhered to the windshield. On some applications, only one of these screws may be tightened. Once the set screws are fully loose, slide the camera up to remove from the bracket.
- 2. Disconnecting the power cable. Once the camera is free from the bracket, locate the white plug. Lightly pull on the power cable to disconnect the white plug from the camera.
- **3. Power cycling.** Leave the power connector disconnected from the back of the camera for at least than 30 seconds.
- 4. Reconnecting the power cable. Place the white connector from the power cable into the connection point on the camera. You should see a solid green LED displaying directly below the connector location.
- 5. Remounting the camera to the bracket. Align the bracket tabs to the back of the camera. Once aligned, slide the camera down to lock into place. Ensure a flush fit between the camera and the bracket. Tighten one or both of the T5 Torx

screws. If one of the T5 Torx screws is inaccessible only one side is required.

6. Review the forward facing LEDs. The camera should cycle through its boot up process. You may see some different color LEDs while the reboot process occurs. Once both forward LEDs display solid green, the device is operational.

If the device is still displaying red lights or displaying no lights after Power Cycling, follow the steps in <u>Warranty Replacement Process</u>.





Single LED should display solid green when power is connected



WARRANTY REPLACEMENT PROCESS

Once determined that the device is malfunctioning or not working as intended, and troubleshooting has failed to correct your issue, reach out to Nauto Customer Support in one of the following ways.

EMAIL

Email at support@nauto.com.

In your initial email please provide the following information:

- 1. Device Serial Number
- 2. Brief but detailed description of the issue.
- 3. What troubleshooting steps were performed on the device

You will receive an email with your case number.

A Nauto Support Agent will review your case and respond with possible secondary troubleshooting steps. Once all troubleshooting options are exhausted, the agent will assist you with setting up a RMA to receive a Warranty Replacement, if applicable.

You will then receive two separate emails, one containing an RMA and the other containing a return shipping label.

Please use the return shipping label to return your defective device as soon as possible.

PHONE

If you wish to speak directly with a Nauto Customer Support agent, call Nauto at **1 (888) 628-8690**.

Be prepared to provide the agent with the following information:

- 1. Device Serial Number
- 2. Brief but detailed description of the issue.
- 3. What troubleshooting steps were performed on the device

Once all troubleshooting options are exhausted, the agent will assist you with setting up a RMA to receive a Warranty Replacement, if applicable.

You will receive two separate emails, one containing a RMA form and the other containing a return shipping label.

Please use the return shipping label to return your defective device as soon as possible.

Once the defective unit is received and processed the replacement unit will be shipped out.

When you receive the replacement unit, follow the steps in the 'Device Installation Guide'.

12



APPENDIX

The following section will include ancillary information to assist in the installation and maintenance of the Nauto Device.



EXAMPLE: An installation description can be found in the <u>OBD Connection</u> section.

© 2023 Nauto, Inc. - Proprietary and Confidential

APPENDIX A

12

12.1

OBD POWER INSTALLATION WITH Y-ADAPTER



EXAMPLE: An installation description can be found in the <u>OBD Connection</u> section.

© 2023 Nauto, Inc. - Proprietary and Confidential

12

APPENDIX B - OPTIONAL INSTALLATION ACCESSORIES

OBD ADAPTER REFERENCE

The OBD adapters included with the Nauto device allow technicians to install the included Y cable. Use the following adapter reference guide and included instructions to install the Y cable for the Nauto device.

North American Flange Mount Ford GM Chrysler 	European Latch & Snap Mount Fiat Citroën Peugeot
North American Extended Flange Mount • Ford	 VW Snap-In Mount Volkswagen Audi
North American Snap-In Mount Chrysler 	BMW Slide & Lock Mount • BMW
North American Slide & Lock Mount Ford GM 	Ford Round Snap-In Mount • Ford
European Lock Mount Mercedes BMW 	Iveco Slide & Lock Mount • Iveco
Asian Snap-In Mount Toyota Hyundai Kia Ford 	Volvo Slide Mount • Volvo

12

APPENDIX C -DEVICE OVERVIEW

NAUTO DEVICE



Audio alert capabilities

MARK BUTTON



Nauto's Mark button offers even more safety and protection for a driver. The Mark button is connected via Bluetooth to the Nauto device. If a driver witnesses anything unusual or unsafe around them, they can use the Mark button to upload video to the fleet app for a manager to review.



12

12.4

© 2023 Nauto, Inc. - Proprietary and Confidential

TECHNICAL SPECIFICATIONS

INWARD/OUTWARD CAMERAS

FOV (horizontal)	144° / 90°
Resolution	Up to 1080p
Frame Rate	Up to 30 fps
Video Format	H.264 / MPEG-TS
Lowlight Support	IR Support, HDR

SENSORS

G Sensor, Gyro, E-Compass,	
Ambient Light Sensors	+- 16G
GPS Module	-148dBm sensitivity GPS/GLONASS

CONNECTIVITY

Cellular	LTE with HSPA fall back
Bluetooth	5.0 LE / Pre-paired with Mark Button
Wi-Fi	802.11 b/g/n – Access Point or Client

DEVICE HARDWARE

Audio	Speaker & Microphone
Storage	Up to 512GB Industrial Grade
Processor	Qualcomm Snapdragon 845
Dimensions	W 135.3mm x H 71.4mm x D 44.6mm
Weight	199g
Operating Temperature	-25°C to +65°C
Storage Temperature	-35°C to +85°C

MARK BUTTON

Dimensions	W 28.4mm x H 40.8mm x D 11.3mm
Battery / Power	CR2032 battery
Battery Life	12 month average (assuming average use per day)
Connectivity	Bluetooth, pre-paired with Nauto Device

POWER

Battery/Power	12V / Max 14W
Connection	3-wire installation
OBD Connection	Supported
Additional Features	Heat, water, dust resistant

© 2023 Nauto, Inc. - Proprietary and Confidential

12

APPENDIX D - BRACKET SELECTION GUIDE

The Nauto device can be used with any windshield angle by using a Nauto angle bracket. Below is an overview of how to determine the correct bracket for each vehicle.

0° CORRECTION - PART NUMBER: 810-00002-01

- Used for windshields with up to a 35° angle
- · Primarily used on the majority of light-duty vehicles



20° CORRECTION - PART NUMBER: 810-00004-01

- Used for windshields with a 36° to 55° angle
- Primarily used on medium-duty vehicles and some light-duty vehicles with more vertical windshields



40° CORRECTION - PART NUMBER: 810-00005-01

- Used for windshields with a 56° to 75° angle
- Primarily used on heavy-duty class 7 and 8 trucks, as well as vehicles with nearly vertical windshield



52° CORRECTION - PART NUMBER: 810-00006-01

- Used for windshields with a 76° to 90° angle
- Most rarely used bracket. Used almost exclusively on buses and some trucks with nearly vertical windshields



N nauto®

FOR ADDITIONAL SUPPORT CONTACT NAUTO CUSTOMER SERVICE

Email at support@nauto.com

or

Call (888) 628-8690 (5am PST - 6pm PST M-F)

NAUTO[®] INSTALLATION GUIDE Version May 2023

© 2023 Nauto, Inc. - Proprietary and Confidential