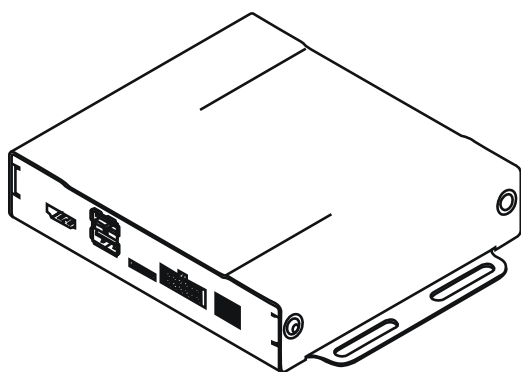


VLine



INSTALLATION MANUAL

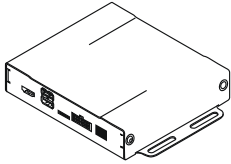
LEX4

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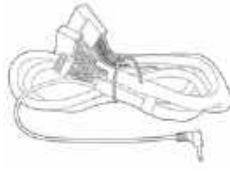
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GROM-VLINE SYSTEM

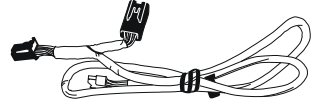
PACKAGE CONTENT FOR VLINE VL2



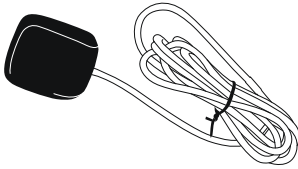
VLine module



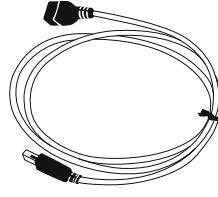
VTOYA Video
Cable with mic



MCFTOY
Power Harness



GPS Antenna



USB Extension cable

*NOTE for VLite VT2: The GPS Antenna and the USB Extension Cable are not included in the VLite VT2 package. You can order them separately if desired.

CHAPTER 1 — INSTALLATION

1.1 Before Installation

Before starting work with any wiring, please wait 90 seconds after turning the Ignition to the OFF position and disconnecting the negative (-) terminal of the battery. This is to ensure that no SRS airbags faults are triggered during the installation when disassembling the vehicle's panels and wiring connections for the VLINE module installation.

Please review the entire manual to familiarize yourself of the VLINE module and the installation requirements before installing the unit and using it.

1.2 Tools

Have Tools ready for disassembling the dashboard panels to remove the stereo.

Some basic tools will be required for stereo removal and installation, Plastic prying tools, Phillips head screwdriver, 10mm socket and ratchet. Additional tools may be required depending on vehicle and installation preference.

1.3 Vehicle Installation

Each model vehicle disassembles differently. The removal of the stereo and

wiring installation requires special technical skills and experience. If you feel uncomfortable installing, please consult with your local car audio shop or installation professional for instructions or assistance if necessary.

Carefully remove the factory stereo and display from the dash cavity with the proper tools.

It may be necessary to disconnect items surrounding the stereo and display to remove them and gain access to the back of the stereo to make your connections.

1.4 Safety Guidelines & Appropriate Use

By using VLine you agree:

- to operate VLine only when there are safe driving conditions;
- to follow any applicable state and traffic laws;
- to keep an eye on the road at all time while driving;
- do not attempt to play video (such as YouTube) on a display while the vehicle is in motion;
- do not use VLine without running the engine for the extended period of time as it can drain the battery.

Do not use Vline in a manner that would distract the driver or that may otherwise cause injury or death to vehicle occupants or bystanders.

IT IS ILLEGAL IN MOST STATES OF THE UNITED STATES AND MAY BE ILLEGAL IN OTHER JURISDICTIONS FOR ANY TELEVISION OR OTHER VIDEO DISPLAY, STREAM, TRANSMISSION OR BROADCAST TO BE VISIBLE TO THE DRIVER WHILE THE VEHICLE IS IN MOTION. YOU AGREE NOT TO USE ANY VISUAL COMPONENT OF VLine WHILE IN CONTROL OF A MOVING VEHICLE WHERE DOING SO WOULD BE ILLEGAL OR DANGEROUS TO VEHICLE OCCUPANTS OR BYSTANDERS. DOING OTHERWISE CAN LEAD TO SERIOUS INJURY OR DEATH TO YOU AND OTHERS. PLEASE FIND A SAFE PLACE TO PARK AND ENGAGE THE PARKING BRAKE BEFORE VIEWING ANY VIDEO DISPLAYS, STREAMS, TRANSMISSION, OR BROADCAST AVAILABLE THROUGH VLIN.

Watch install video: https://bit.ly/lex4_install

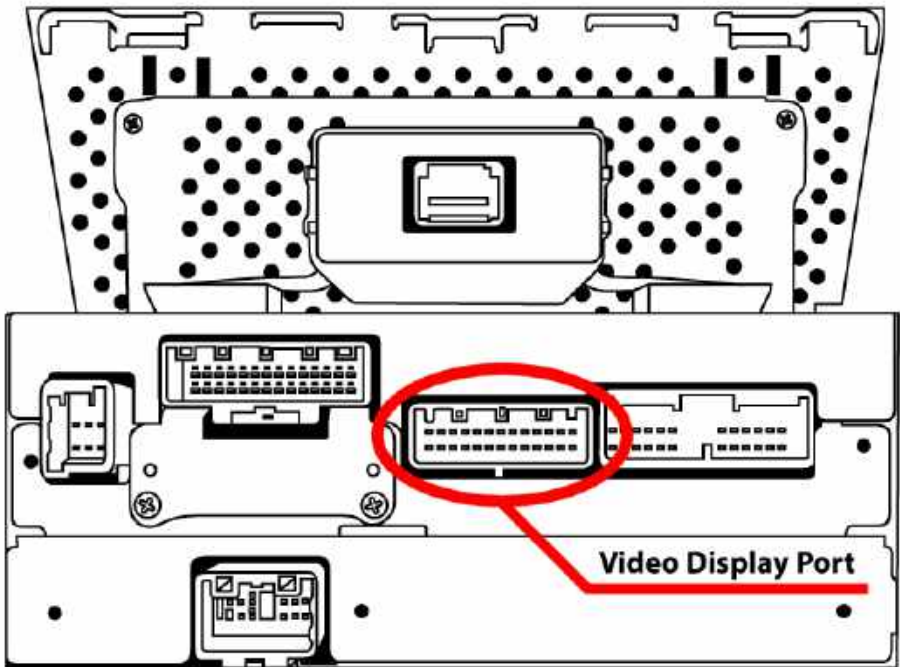
Connect supplied display cable VTOYA to factory display

Locate 28-pin video display port at the rear of the Multi Display ECU (car stereo display). Disconnect the factory display cable from the rear of the Multi Display ECU. Plug supplied VTOYA cable into video display port, and reconnect the disconnected factory cable into the female plug of VTOYA cable.

IMPORTANT:

On some stereos, 28-pin video display port is located at the back of the display, not at the stereo's back.

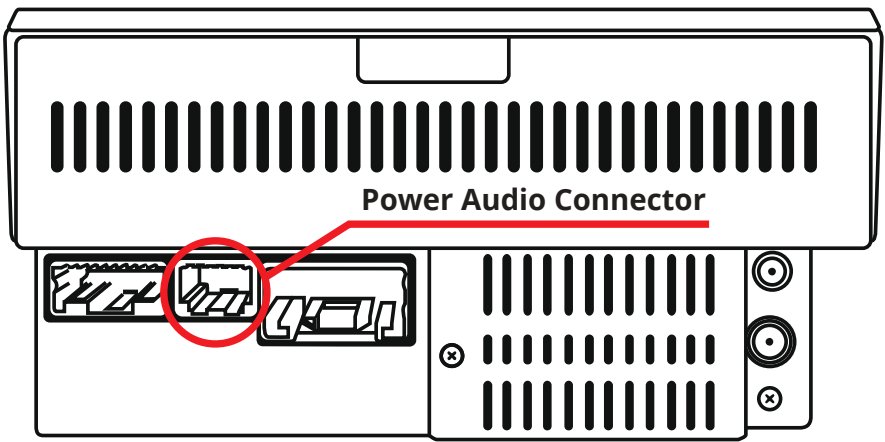
Please check the back of your stereo display. If the display port is available at the back of the factory display, please make sure to connect VLine VTOYA display harness there and not at the back of the stereo.



Connect VLine Interface cable to Factory Head unit

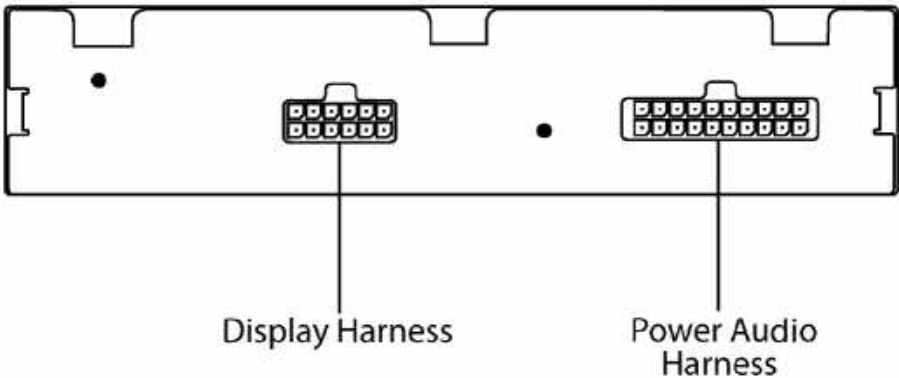
Located 12-pin connector and unplug. Plug in supplied Power Audio Wiring Harness Interface cable (MCFTOY). Reconnect back what was disconnected from the rear of the stereo back into the female plug of the supplied interface cable.

Watch install video: https://bit.ly/lex4_install



Connecting to VLine

Route the unused end of Display Cable and Power Audio Cable to the VLine module and connect them to the correctly labeled ports.



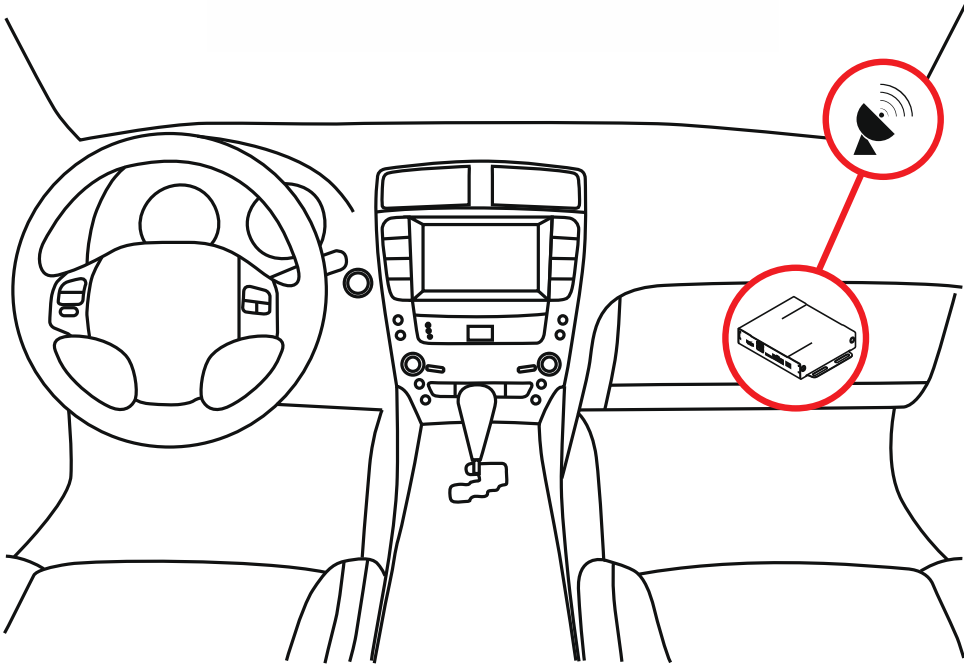
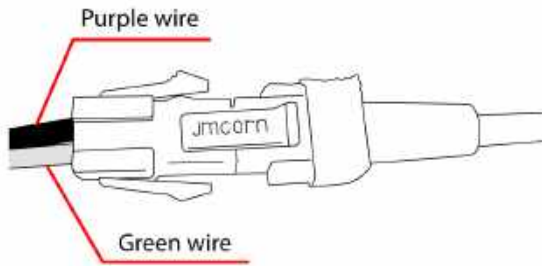
Routing the GPS Antenna

The GPS Antenna module is supplied with double sided tape.

It can be mounted to the top of dashboard or to outside of vehicle whichever you prefer. Route to desired location. We recommend mounting on inside of vehicle on passenger side of the Dashboard as shown below. **Do not place the antenna into the glove box, or next to the metal parts. It can affect the reception.**

Plug the GPS antenna into the port labeled **CAMERA AV1** on the VLine Module.

If using VAUX cable: Plug VAUX cable into the CAMERA AV1 on VLine. Unplug GPS from the 10-pin to 4-pin adapter, and plug the GPS into VAUX with the purple and green wires facing up.



Using factory microphone

VLine VL2 / VLite VT2 will use factory microphone for its operation. Connect 3.5mm male connector from Video Cable (VTOYA) to the microphone port of VLine (see p. 9 for reference).

There are no any additional steps needed to connect or operate VLine with the vehicle factory microphone. Simply follow to the guidelines in the User Manual.

Adjusting microphone gain for CarPlay® or Android Auto®

1. Go to the VLine home screen, tap on three horizontal lines in the upper left corner of the screen and open the “Settings.”
2. While in “Settings,” scroll down to the bottom of the screen.
3. Adjust the microphone gain to 45. We recommend testing the microphone with the different gain parameters and set the best for your liking. However, the gain set to 45 is what usually works the best.

Important: the phone calls are supported for CarPlay only. The VLine VL2 does not support calls for Android Auto. You need to connect Android phone to the factory Bluetooth for phone calls. You can still start or accept the call using Android Auto.

Testing the VLine operation

WARNING: Ensure to reconnect all unplugged connectors to the vehicle before cycling the ignition. Cycle the ignition and press the CD or DISC button to enter VLine mode. You might need to press the CD button a few times until the stereo enters external CD changer mode which is VLine mode.

Ensure the VLine appears on the screen and all factory functions, such as climate controls, reverse camera, and AM/FM stereo, are working. You can mount the dashboard back.

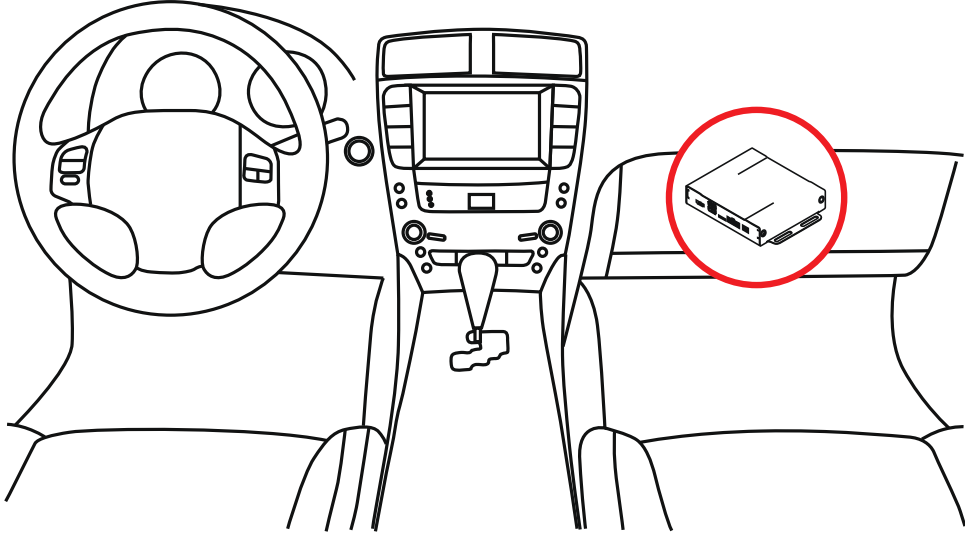
Installation Troubleshooting

Test VLine operation before mounting the dashboard back.

1. There is no VLine on the display, or the display is black.
Check the VTOYA video cable to ensure you connected it at the correct spot. On some stereos, the video port is located at the back of the display and not at the back of the stereo. See page 5 for details.
Make sure you reconnected the originally connected display cable back to the VLine VTOYA female end.
2. The stereo does not “see” VLine connected, or there is a distortion.
Ensure you disconnected the external CD changer if it is present. Check for any aftermarket devices somewhere in the vehicle. This includes aftermarket Bluetooth connection. Ensure you disconnect all aftermarket devices.
3. The VLine UI is shown but it is very pixelated.
The stereo screen is low resolution and some pixelation is possible. Adjust the stereo brightness and contrast to your liking so the VLine maps and apps will look crispier. Check how-to video at bit.ly/vline_display

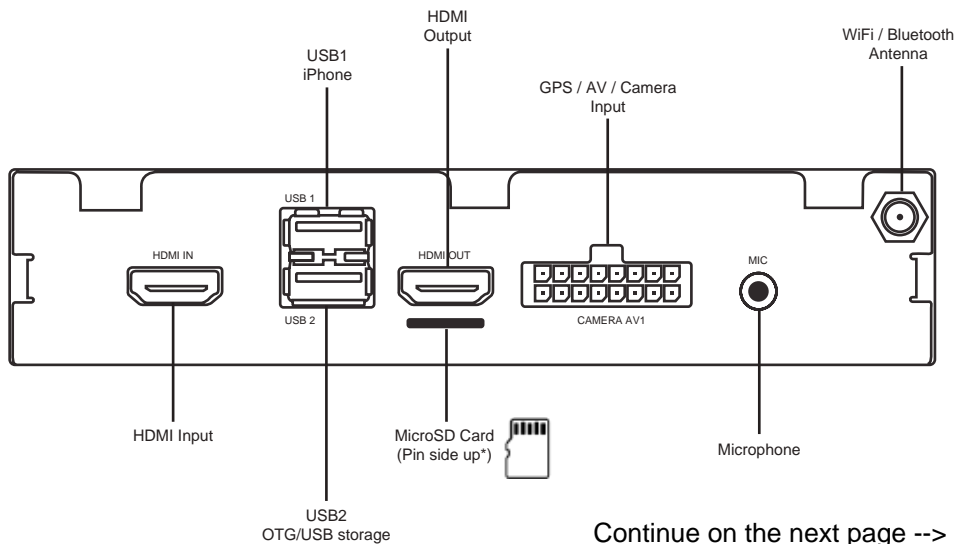
Mounting the VLine Module

Mount the VLine main module in an easily accessible location, such as the **glove compartment**, for easy access to the USB ports and to upgrade firm-ware on the VLine module. **Do not leave the unit inside the dashboard**, as it can damage the unit and its Bluetooth antenna and affect the Bluetooth / Wifi reception.



Beware of hot-air flow from your vehicle's climate control system. The interface should be secured **in an easily accessible location**, free of sharp metal edges, using double-sided tape, Velcro, or wire ties.

Understanding VLine Ports



USB1

iPhone connection for CarPlay®
Any other USB device (Keyboard / Mouse)

USB2

USB flash drive
Android phone for Android Auto®
Any USB device (Keyboard / Mouse)

MicroSD

Insert microSD card (*pin side up) to increase storage space for Vline (up to 128GB supported). The microSD should be formatted FAT32. File system format exFAT and NTFS are not supported.



Pin Side Up

HDMI IN

HDMI input connection to connect external video sources.
(add plugin to Dashling Launcher to use feature)

HDMI OUT

HDMI Output connection to connect external displays. The HDMI Output will match the VLine's video feed and resolution, be sure your external display can handle those properly.

MIC

Microphone input, Connect 3.5mm microphone jack on VTOYA cable

CHAPTER 2 — GETTING STARTED

2.1 Initializing

After connecting the VLine module to the stereo, cycle the ignition for the stereo to discover the Vline and allow the Vline to self-configure.

To INITIALIZE:

1. Turn the ignition switch to "ACC" or "ON" position
2. Wait up to 5 seconds
3. Turn the ignition switch to "OFF" position
4. Wait 1 minute
5. Turn the ignition switch back to "ACC" or "ON" position
6. Press the DISC button until you can select the VLINE interface.
(it may take more than two presses of the DISC to access as the first press is for a built-in CD/DVD changer in most cases)

2.2 Functions

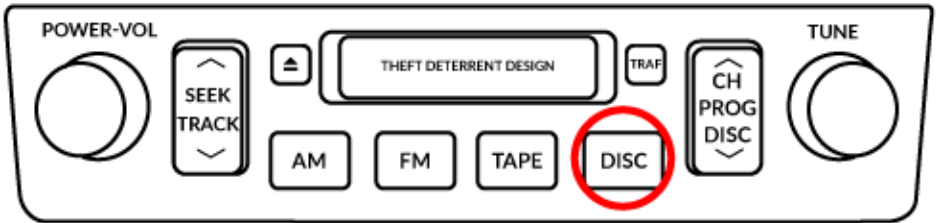
The GROM VLINE emulates the factory external CD changer mode of the stereo.

No other factory functions of the stereo will be disabled. Factory Bluetooth, navigation, and radio will remain functional.

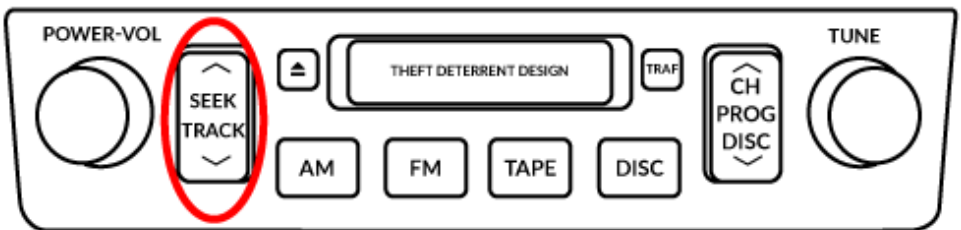
Important: External CD changer, if present, must be disconnected. If you have aftermarket units connected at the back of the stereo, they might affect the VLine performance. You might need to disconnect them as well.

2.2.1 Selecting the VLINE mode:

Press the DISC button to access the external CD changer mode of the stereo to enter into VLINE interface mode (may need to press DISC few times).



Track selection can be done with the stereo's SEEK TRACK ^ and v buttons or steering wheel buttons.



2.2.2 Forcing the VLine VL2 / VLite VT2 User Interface on the display

You can listen to FM radio while seeing the VLine VL2 / VLite VT2 or CarPlay and Android Auto UI.

Simply go to the CD Changer source to display the VL2/VT2, then select the OEM source from the Lower Radio Buttons.

Important: to get the sound from VLine VL2/VLite VT2 or CarPlay and Android Auto, switch the AUDIO source back to VLine VL2 / VLite VT2 stereo mode. Watch how to at https://bit.ly/lex5_lex4_demo

Important! Factory CD changer Equipped vehicles

When installing the GROM-VLINE module, It may be necessary for some vehicles to disconnect external CD changer, mounted in the glove compartment, armrest or trunk.

After Installation of VLINE, cycle Ignition a couple of times and see if both the VLINE and CD changer work properly installed together.

- If there is misbehavior of either one, then it is recommend to disconnect and lose this factory CD changer so that VLine can function properly.

- If both VLINE and CD Changer behave properly then there is no need to disconnect the CD Changer.

To disconnect CD Changer

1. Remove panels surrounding CD changer.
2. Unplug all cable connections leading up to the CD changer.
3. Remove CD changer from vehicle if you wish or it can be left mounted in vehicle but unplugged.

DVD changers or Built-in CD changers will remain working with VLINE, and do not have to be disconnected.

Adjusting Audio Bass, Treble, Balance/Fade for VLINE Mode - using Factory UI

Use the Factory UI icon to get to the factory UI and adjust sound settings. While in the VLine VL2 main screen, press on empty PLUS sign and go to Shortcuts --> Factory UI. Press on the Factory UI to get the shortcut icon to the main VLine screen. Tap on the Factory UI icon, and the stereo will switch from the VLine interface into factory external CDC interface. While in the factory CDC interface, you can adjust audio settings.

Press FM and then DISC on the stereo to switch back into the VLine VL2 interface mode.

Using External Keyboard or Mouse

You can attach external USB mouse or keyboard to any USB ports of VLine, for easier operation, when you need to type-in password, or apply firmware update.

Adjusting Display Brightness / Contrast

Sometimes the VLine or CarPlay / Android Auto image might appear washed out. This is because the factory display is not optimized for VLine or CarPlay / Android Auto colors. Adjust the display brightness and contrast to your liking by using the DISP button, if available, or going to the Factory UI (see above) and adjusting the display settings for the VLine mode of your stereo.

Using Siri® or Android Auto® Voice Assistant

Press and hold TRACK UP on the Steering Wheel Controls for 2-3 seconds to activate Siri or Android Auto Voice Assistant. You can also use the button in the lower left corner of CarPlay / Android Auto UI to activate voice assistant.

Troubleshooting and Tips

Q. *I can enter VLine mode on the stereo, but the VLine is not seen on the stereo display; it is blank.*

A. Make sure you connected VTOYA video cable to the correct display port. Check the back of the stereo display and see if a proper display port is available there. See p.5 of this manual.

Q. *VLine cannot be recognized by the stereo or is misbehaving.*

A. Check if there is an external CD changer present in the vehicle. If it is present, make sure to disconnect it. See p. 12 of this manual.

Q. *VLine is misbehaving.*

A. Check for firmware update and apply the latest firmware, if available. Connect VLine to Wifi (see User Manual). Go to Settings --> About Device --> Check for Updates and apply all available updates.

Q. *There is no sound from VLine VL2 / VLite VT2.*

A. Ensure the audio is in the VLine VL2 / VLite VT2 mode (external CD changer mode). Press DISC until the audio is in the VLine mode. Watch how to video https://bit.ly/lex5_lex4_demo See p.11

Q. *CarPlay calls do not sound good.*

A. Ensure you adjusted the microphone gain to 45. Check p. 8

FAQ: www.gromaudio.com/support/faq.html, videos and installs at www.gromaudio.com/installs/index.html.

WARRANTY

Eighteen (18) Month Limited Warranty

This warranty covers any supplied or manufactured parts of the product that, upon inspection by GROM Audio authorized personnel, is found to have failed in normal use due to defects in the material or workmanship. This warranty does not apply to the installation expenses. Attempting to service or modify this unit, operating this unit under conditions other than the recommended will render this warranty void.

Unless otherwise prescribed by law, GROM Audio shall not be liable for any personal injury, property damage and or any incidental or consequential damages of any kind (including water damage) resulting from malfunctions, defects, misuse, improper installation or alteration of this product.

All parts of this product are guaranteed for a period of 18 month as follows:

Within the first 18 months from the date of purchase, subject to the conditions above, GROM Audio will repair or replace the product at their discretion, if it is defective in the material or workmanship.

All customers should contact GROM Audio support team at <http://gromaudio.com/support.html> and obtain an RMA number and Return Instructions. All defective product returned to GROM Audio within warranty period must be accompanied by the original invoice (or copy). All shipping handling charges are non-refundable. Warranty does not cover normal tear and wear, damages due to negligence, improper installation, and operation.

WITHOUT RMA NUMBER THE RETURNS ARE NOT ACCEPTED!

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- to keep an eye on the road at all time while driving;
- do not attempt to play video (such as YouTube) on a display while the vehicle is in motion;
- do not use GROM Product without running the engine for the extended period of time as it can drain the battery.

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conditions are always more important than guidance given by third party navigation/mapping data providers. Neither GROM Audio nor any of its content providers, guarantees the availability, accuracy, completeness, reliability, or timeliness of traffic information, navigation, or location data provided by the GROM Product. Always exercise the caution and common sense when using and relying on the navigation, location, maps and traffic data with GROM Product.

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OTHER PROVISIONS

A. INDEMNIFICATION OF GROM AUDIO, ITS AGENTS AND EMPLOYEES. By Purchasing, Installing and Using the Products, You, the End- User, agree to indemnify, defend and hold harmless, GROM AUDIO, and it s Affiliates, Directors, Officers, Agents and Employees from any Liabilities, Damage, Loss, Claim and Expense (including reasonable Attorney's Fees) arising out of the installation and use of the GROM Product.

B. EXCLUSION OF REMEDIES. TO THE MAXIMUM EXTENT PERMITTED UNDER APPLICABLE LAW, IN NO EVENT WILL GROM AUDIO OR ITS EMPLOYEES, DIRECTORS, OFFICERS AND OTHER REPRESENTATIVES BE LIABLE TO YOU OR ANYONE ELSE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL DAMAGES OF ANY KIND ARISING OUT OF OR IN ANY WAY RELATING TO THIS AGREEMENT, INCLUDING YOUR USE OF OR INABILITY TO USE THE VLINE OR ANY CLAIM MADE BY A THIRD PARTY (INCLUDING, WITHOUT LIMITATION, LOSS OF REVENUE, PROFITS, DATA OR GOODWILL OR OTHER COMMERCIAL OR ECONOMIC LOSS) REGARDLESS OF THE CAUSE OF ACTION ON WHICH THE CLAIM IS BASED, EVEN IF GROM AUDIO HAS OR YOU HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR CLAIM.

C. GOVERNING LAW. THIS AGREEMENT and all Purchases hereunder shall be governed by, and construed under the laws of the State of California, without regard to conflicts of law rules. You agree that the Courts of California shall have exclusive jurisdiction over the Parties, for all disputes.

D. FORCE MAJEURE. GROM shall not be liable for any delay or failure in performance caused by or resulting from acts of God, fire, flood, storms, earthquakes, tornado, other acts of nature, any accidents, riots, wars, government intervention, embargoes, strikes, labor difficulties, equipment failures, or any other causes beyond the control of GROM AUDIO. Quantities are subject to availability.

E. ENTIRE AGREEMENT. These terms and conditions constitute the entire and exclusive agreement between you, the End-User and GROM AUDIO, concerning the Products, and your purchase hereunder, and supersede all statements or other agreements, whether oral or written, between you and GROM AUDIO. No change in this Agreement shall be effective, unless agreed to in writing by both, you, the end-user and GROM AUDIO.

GROM AUDIO COMPATIBILITY DISCLAIMER

GROM Audio strives to provide you with a high-quality product while maintaining competitive pricing. We continuously work to test and develop our product, however, in some cases; our interfaces may not be compatible with your application. Due to the wide range of electronics / anomalies found in car stereos, compatibility and/or controls may vary. Should you experience incompatibility issues, you may contact us via our support page. GROM Audio also carries a standard 30 day return policy.

ENGINE/SYSTEM NOISE DISCLAIMER

Engine / system noise may occur in some installations and is not easily predictable. Should noise occur with your system, we will take commercially-reasonable steps to diagnose the source of the noise. Depending on the situation, noise suppressors and filters may need to be installed in order to correct the problem. Due to the nature of electronics, noise may not be correctable in all cases.

IF YOU DO NOT AGREE WITH THESE TERMS AND PURCHASED DIRECTLY FROM GROM AUDIO PLEASE RETURN THE GROM PRODUCTS IN ORIGINAL CONDITION AND IN ORIGINAL PACKAGE WITHIN FIVE (5) BUSINESS DAYS OF RECEIPT OF THE PRODUCTS FOR A FULL REFUND OF THE PURCHASE PRICE OF GROM PRODUCTS (SHIPPING COSTS NON REFUNDABLE).

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