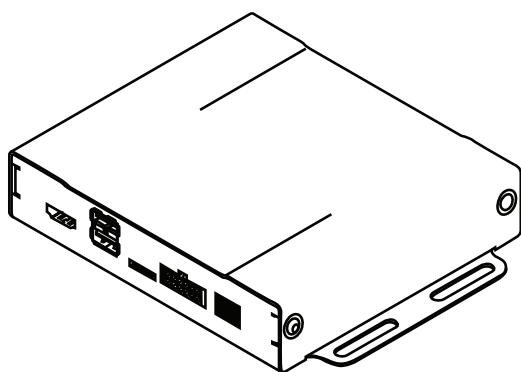


VLine



INSTALLATION MANUAL

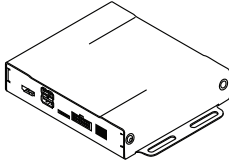
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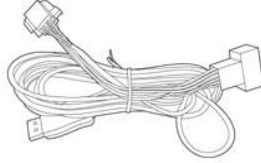
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GROM-VLINE SYSTEM

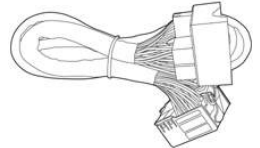
PACKAGE CONTENTS



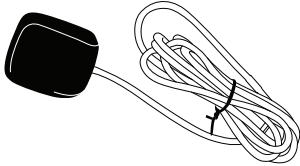
VLine module



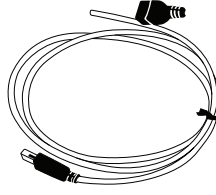
VAUDC3 Video Display Cable



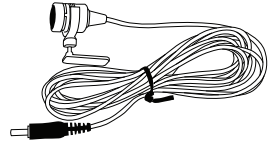
MCFAUDC Power Interface Cable



GPS Antenna



USB Extension cable



Microphone

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 do not feel comfortable doing the installation please consult with your local car audio shop or installation professional for instructions or assistance if necessary.

Carefully remove the factory Stereo and Display out of the dash cavity with 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 VLINE.

Connect supplied video cable VAUDC3 to the factory stereo

Disassemble the dashboard to reach the back of the stereo. Locate the BLACK display port on the rear of the car stereo.

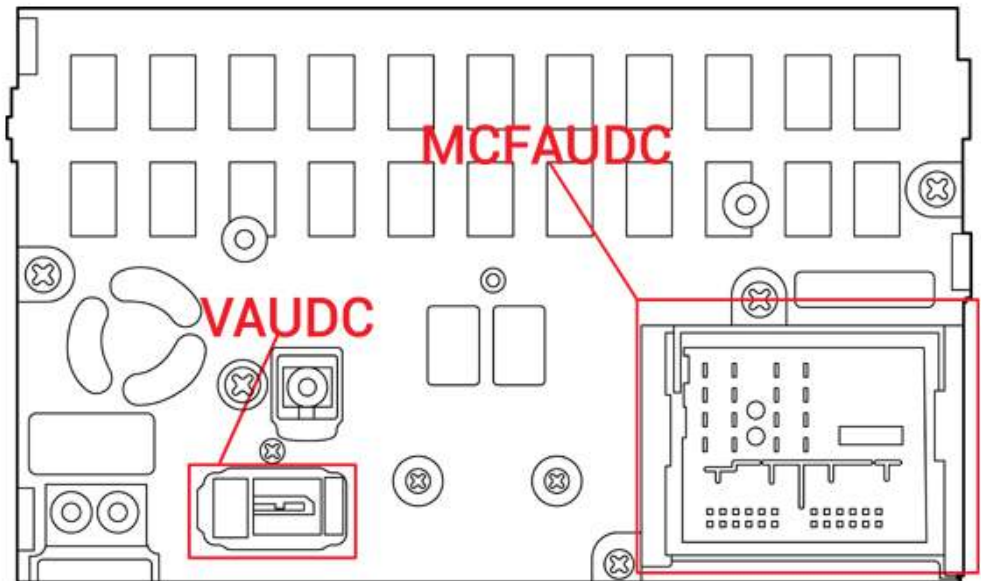
If the port is empty, plug-in supplied video cable (VAUDC3) into the port and leave the female portion of the cable with nothing attached.

If there is a cable plugged in, disconnect that cable (typically black). Then plug in supplied Y cable VAUDC3 and reconnect the disconnected cable into a female plug of the VAUDC cable.

Warning: Do not pinch or hard bend the VAUDC3 video cable, as it will affect the video signal. Make sure there are no “hard” bends near the VAUDC3 cable connector to the VLine, and allow enough space around it.

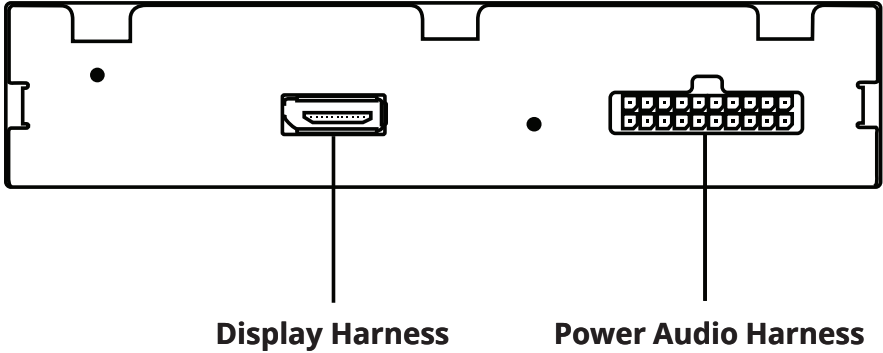
Connect the power interface cable (MCFAUDC) to the factory stereo

Locate the big black quadlock connector at the back of the stereo, as shown in the illustration below. Unplug what is connected and plug in supplied power interface cable (MCFAUDC) at the back of the stereo. Connect what was unplugged into the female portion of the harness. See the illustration below.



Connecting to VLine

Route the unused end of VAUDC3 and MCFAUDC cables to the VLine module and connect them to the correctly labeled ports.

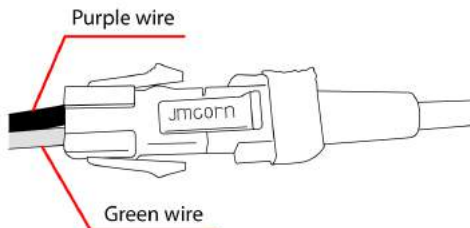


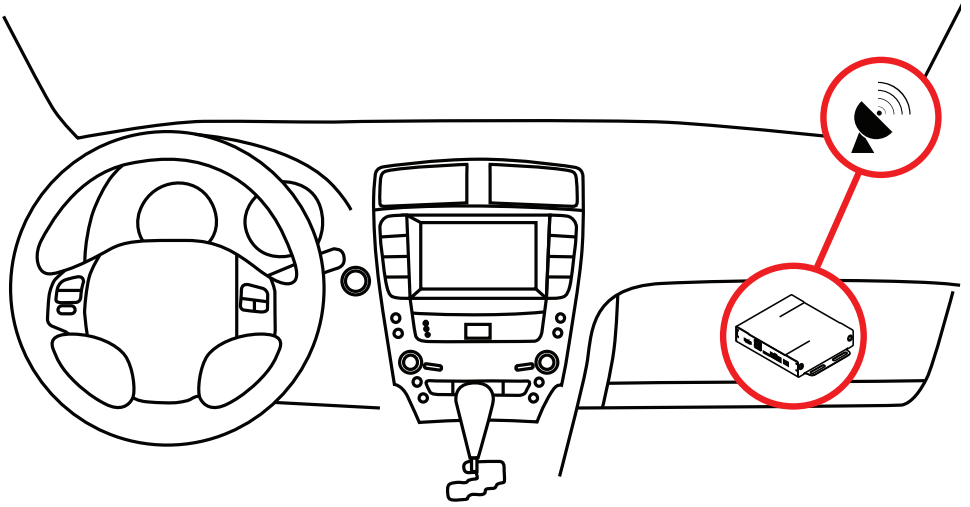
Routing the GPS antenna

The GPS Antenna module is magnetic and supplied with double-sided tape.

You can mount it to the top of the dashboard or outside of the vehicle, whichever you prefer. Route the GPS antenna cable to the desired location. We recommend mounting the GPS antenna inside the car on the passenger side, at the top of the dashboard, as shown on the next page. Ensure there are no obstacles or metal objects blocking GPS signal. Plug the GPS antenna into the Camera AV port of the VLine unit.

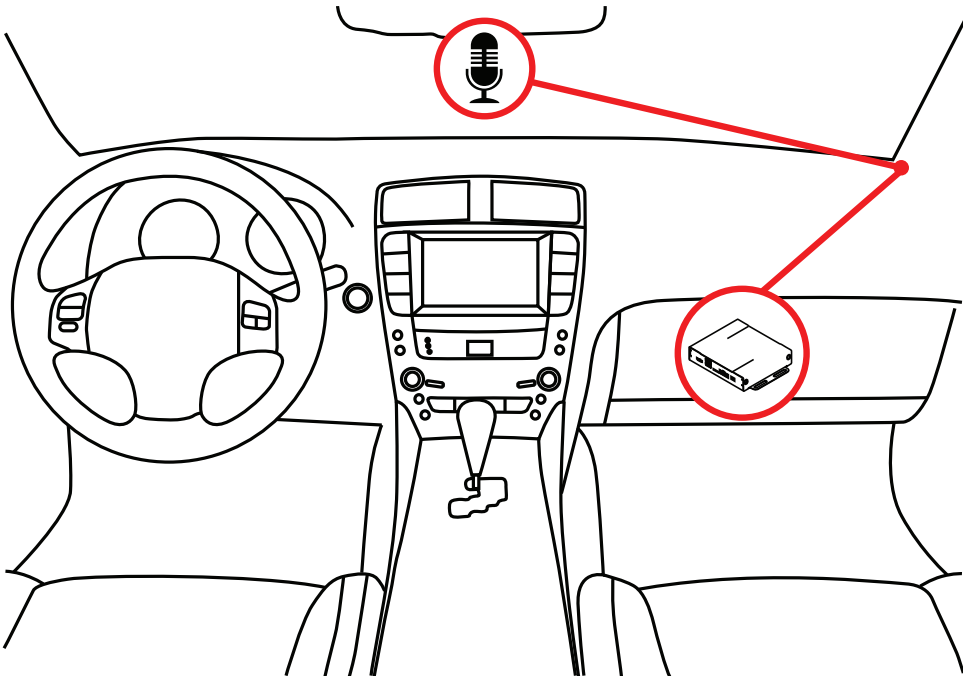
If you need to use the VAUX RCA cable, carefully disconnect the GPS antenna from the small moxex extension, and plug the VAUX cable instead, per the instructions. Please do not break the GPS antenna when unplugging it from the moxex extension.





Routing the microphone

Route the microphone to a location where it will be able to pick up the voice clearly. We recommend to mount the microphone near to the rear view mirror but not directly on the windshield glass. Avoid sticking it to the hard surface as it will pick up more noise. Plug the microphone into the MIC port of the VLine module



Adjusting the microphone gain for CarPlay® or AAuto®

It is essential to calibrate the microphone gain for the ultimate microphone performance for phone calls (CarPlay) and voice control.

1. Go to the VLine home screen, and tap on three horizontal lines in the upper left corner of the screen. You will get into Settings Menu.
2. While in Settings, scroll down to the bottom of the screen.
3. Hit AUTO on the screen to automatically adjust the microphone gain.
4. Follow the instructions on the screen and adjust the microphone gain. We recommend setting the microphone gain to 45.

Testing VLine Operation

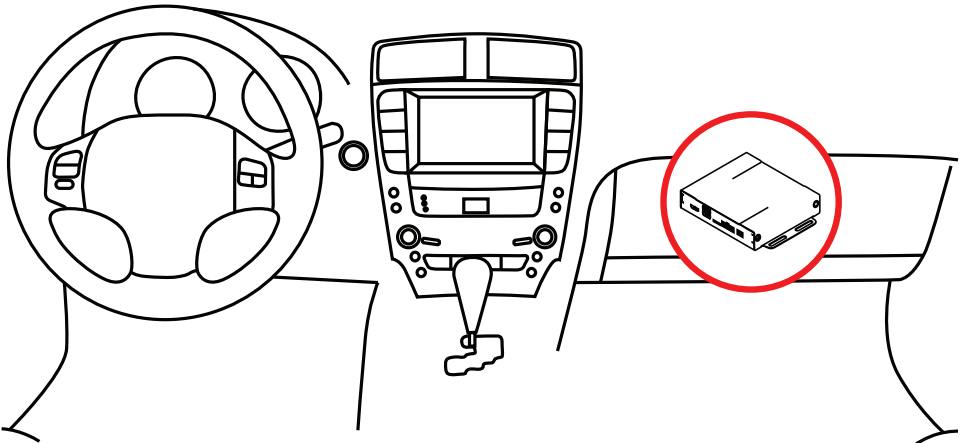
Test VLine operation before mounting the dashboard back.

WARNING: Ensure to reconnect all unplugged connectors to the vehicle before cycling the ignition. Cycle the ignition and press the MEDIA button to enter VLine mode.

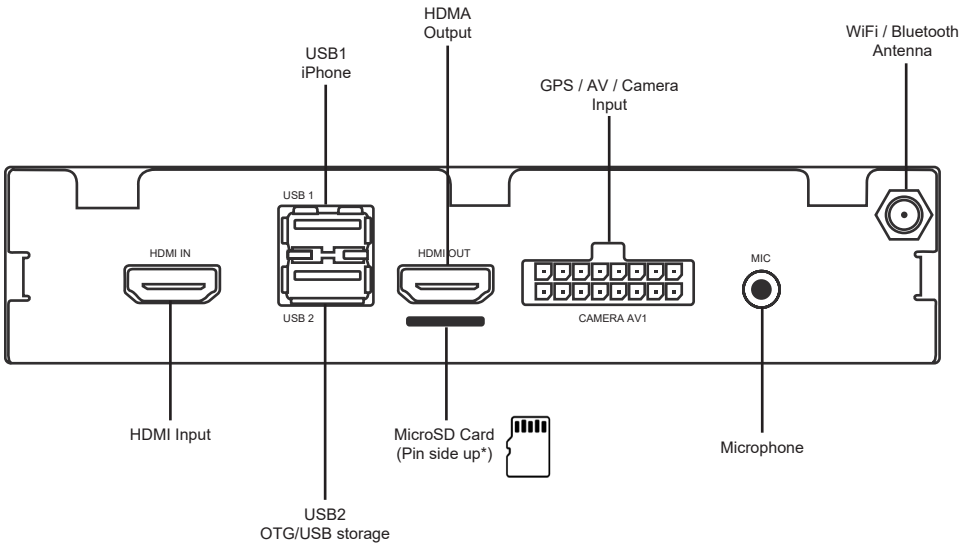
Ensure the VLine appears on the screen and all factory functions, such as climate controls, reverse camera, and AM/FM stereo, are working. You can mount the dashboard back.

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 the 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.



Understanding VLine ports



USB1

iPhone connection

Any other USB device (Keyboard / Mouse)

USB2

USB flash drive

Any USB device (Android, 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.



HDMI IN

HDMI input connection to connect external video sources.
(add plugin to VLine UI 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 mono microphone.

CHAPTER 2 — GETTING STARTED

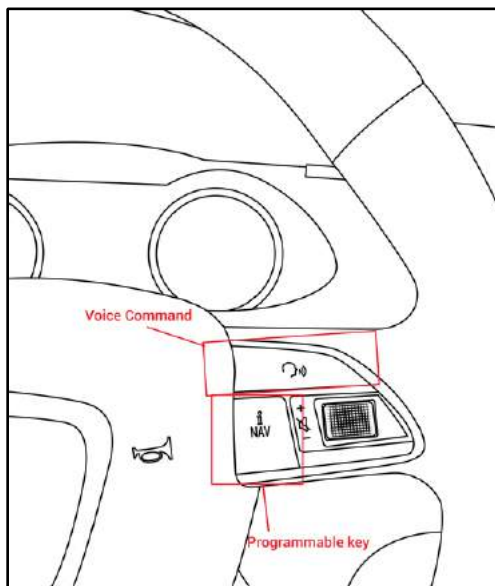
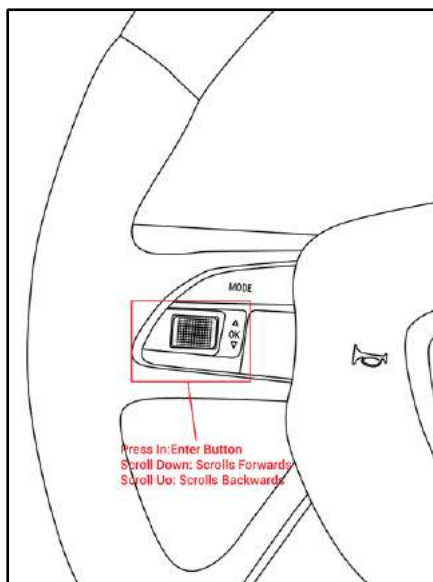
2.1 Functions

The GROM VLINE emulates the factory MEDIA mode of the stereo.

The factory MEDIA function will be disabled as the VLine takes over it. Factory FM and Bluetooth will keep working. You can integrate external backup and front-facing camera using the VAUX cable and the VLine VL2 system (not applicable to the VLite VT2).

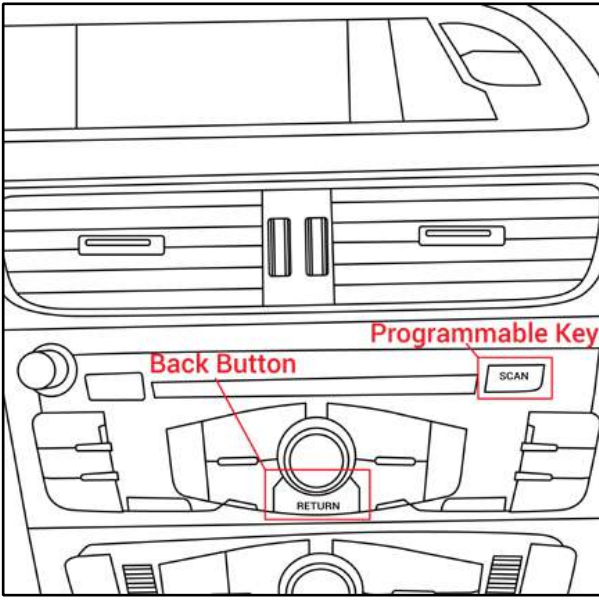
2.1.1 Selecting VLINE mode:

Press the MEDIA button and access the **VLINE mode** of the stereo.



2.1.2 Steering wheel control operations:

1. Use **the scroll wheel** on the left side of the steering wheel as an enter button to press on specific apps and arrows within VLine UI, CarPlay, or Android Auto. You will also use this wheel button to scroll up and down within the VLine UI, CarPlay, or Android Auto.
2. Press the **voice command button** on the right side of the steering wheel to activate voice assistants, such as Siri in CarPlay or Google Assistant in Android Auto. Use this button for voice assistant within the VLine UI.
3. Use the **NAV button** on the right side of the steering wheel as a programmable key.

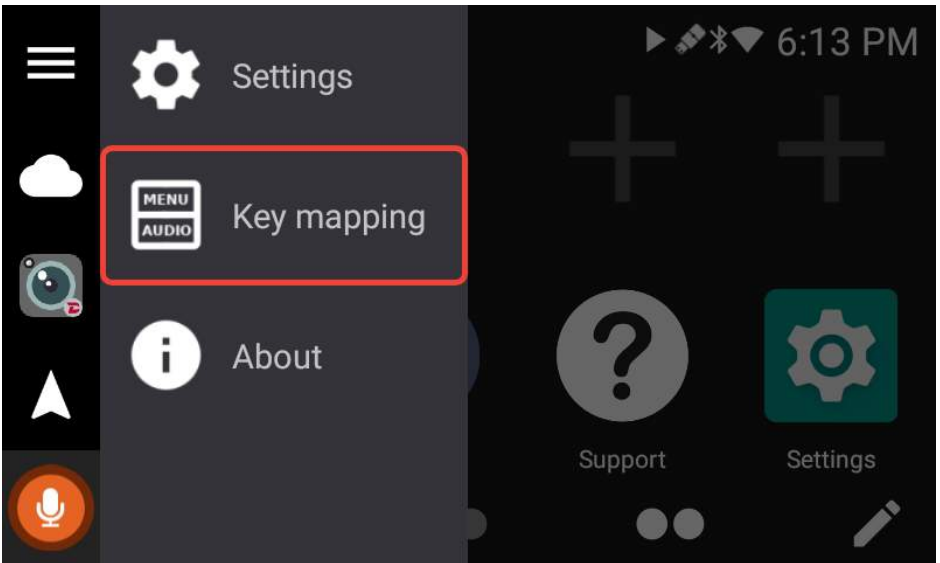


2.1.3 Stereo buttons operations:

1. Use the track forward and backward buttons to change the tracks.
2. Use the **RETURN** button to get back to the previous screen.
3. Use the **SCAN** button as the programmable key.

2.1.4 Programmable keys:

To program the keys, go to the main VLine UI screen, tap on three horizontal lines in the upper left corner, and select Key mapping from the drop-down menu. You can program the SCAN button on the stereo and the NAV button on the steering wheel. Follow the on-screen instructions for the programming.



2.2 Use Factory UI to adjust Audio and Display Settings for VLINE Mode

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

While on the factory screen, you can adjust VLine mode **display settings** in your stereo, such as brightness and contrast.

Press FM and MEDIA on the stereo to switch back to VLine VL2 interface mode.

2.3 Android Auto

Android Auto is available wireless or via USB.

2.3.1 For USB connection: attach Android phone to one of the USB ports on VLine VL2. Download Android Auto app on your phone, grant all permissions and allow all notifications. Use Android Auto plugin on VLine to enter Android Auto. If you experience any problems connecting, try using different, shorter, higher quality USB cable.

See video: <http://bit.ly/vline-android-auto>

2.3.2 For wireless connection: on the VLine UI go to Settings --> Connected Devices --> Click on Bluetooth and on Pair New Device

1. Then go to the Bluetooth settings on your Android phone. Tap "Pair New Device" and wait for VLine2 to appear. Hit pair and check "Allow the access to your contacts and phone history".

2. On the VLine screen you will see exactly the same pop-up. Check allow the "access to your contacts and phone history" as well, and hit pair on both - VLine and your phone.

3. Go back to VLine UI main screen and hit Android Auto icon. At the bottom of the Android Auto settings you will see your phone listed. Tap on it to connect.

See video: https://bit.ly/wireless_aa

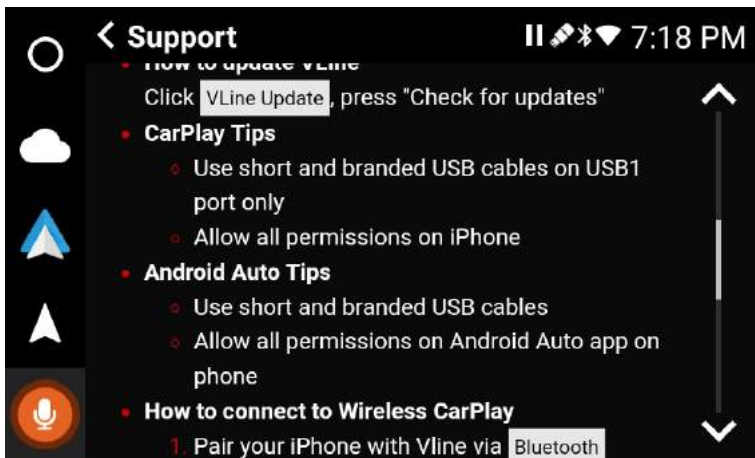
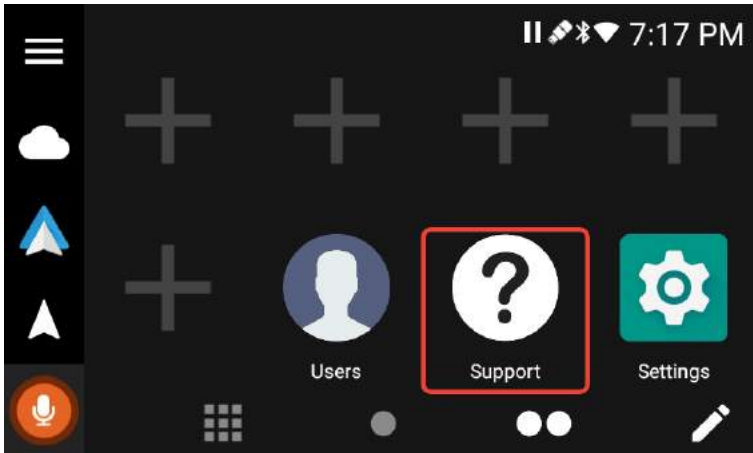
2.3.3 Android Auto phone calls

VLine does not support the phone calls on Android Auto. Use factory phone system to connect to the phone calls. Pair and connect your phone's Bluetooth to VLine for Audio/Media, and to factory Bluetooth for the phone calls. You can accept, reject or initiate phone calls on Android Auto screen.

5. FIRMWARE UPDATES

Check for firmware update and apply the latest firmware, if available.

Go to the Support app on the VLine UI main screen, and follow the guidelines to connect to Wi-Fi and check for Firmware and Software updates. Apply available updates.



6. SUPPORT

For technical support please visit us at www.gromaudio.com/support.html and fill out the form. For live support, please go to www.gromaudio.com.

Please check our FAQ at www.gromaudio.com/support/faq.html, videos and installs at www.gromaudio.com/installs/index.html.

Use **SUPPORT App** within VLine UI for help with connecting to Wi-Fi, CarPlay and Android Auto, and updating the firmware on your module.

User Manual

Please refer to the User Manual and CarPlay/Android Auto guide that are included with your system.

WARRANTY

Eighteen (18) Month Limited Warranty

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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.

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- 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 GROM Product without running the engine for the extended period of time as it can drain the battery.

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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 Texas, without regard to conflicts of law rules. You agree that the Courts of Texas 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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