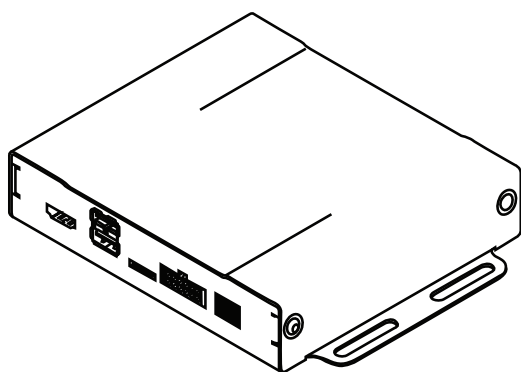


# VLine



## INSTALLATION MANUAL

**LEX78**

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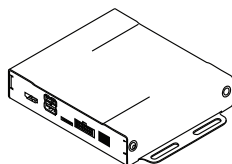
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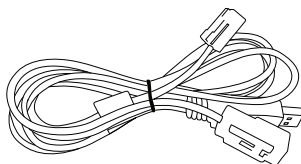
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# GROM-VLINE SYSTEM

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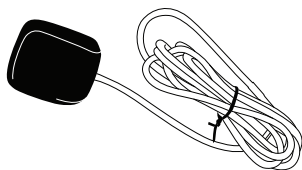
VLine module



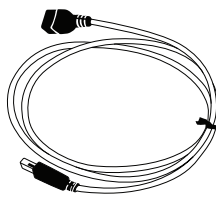
GVMF Video  
Display Cable



MCFLEX789  
Power Harness



GPS Antenna



USB Extension cable

## 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.

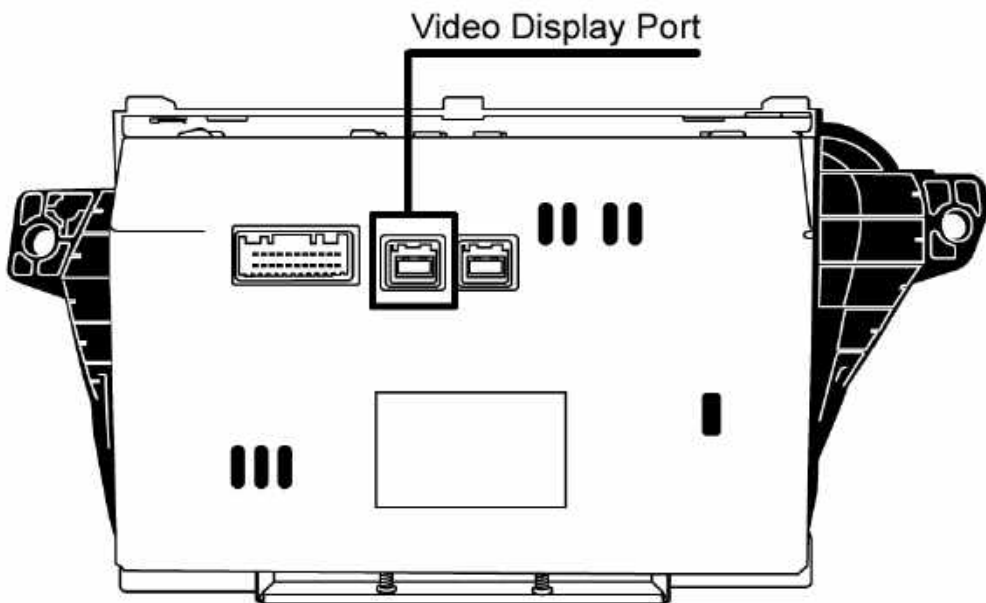
**Watch step-by-step install guide video: [https://bit.ly/lex78\\_install](https://bit.ly/lex78_install)**

## Connect supplied video display cable GVMF to the factory display

Locate BLUE display port on rear of the car stereo display.

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

If there is the cable plugged in, disconnect factory display cable (typically blue in color). Then plug in supplied GVMF Y-shaped cable and reconnect disconnected cable into female plug of the supplied video display cable.



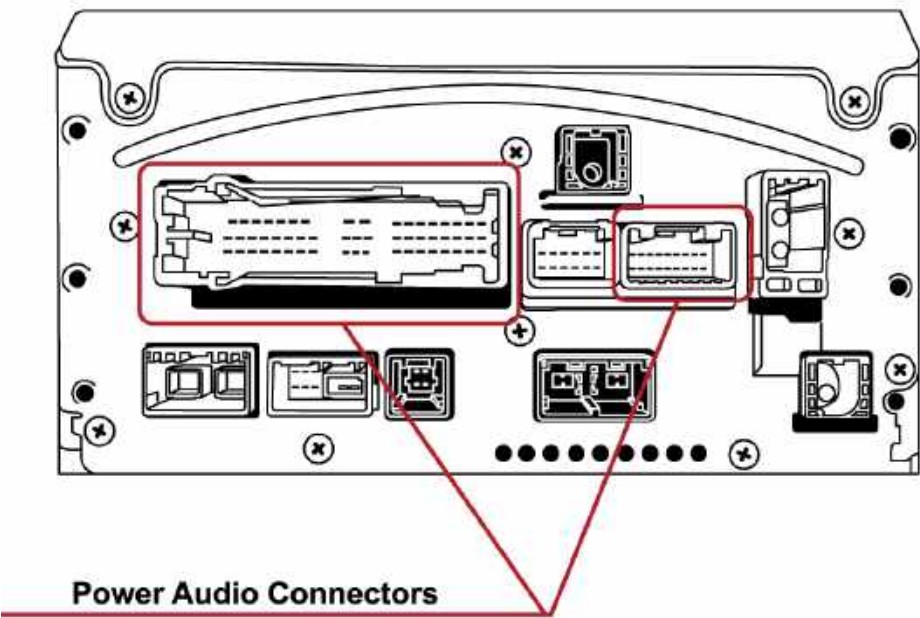
Ensure to connect the GVMF video cable to the back of the factory display, and not to the back of the stereo. If you will connect the GVMF cable to the back of the stereo, the VLine will not show up on the screen!

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

**Watch step-by-step install guide video: [https://bit.ly/lex78\\_install](https://bit.ly/lex78_install)**

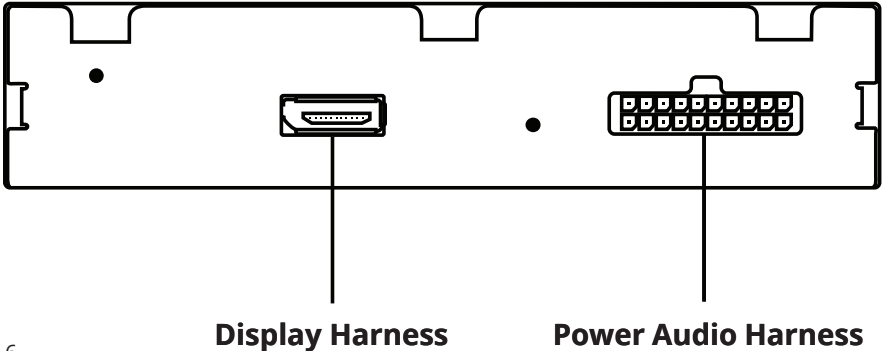
# Connect VLine Interface cable to the Factory Headunit

Locate 59-pin and 16-pin connectors at the back of the stereo, as shown on the illustration below. Unplug what is connected and plug in supplied Power Audio Interface cable (MFCLEX789) into both 59-pin and 16-pin on the back of the stereo. Connect what was unplugged into the female portion of the harness.



## Connecting to VLine

Route the unused end of GVMF display video cable and MCFLEX789 power interface harness to the VLine module and connect them to the correctly labeled ports. Make sure to avoid hard bends of the GVMF cable next to the connector.



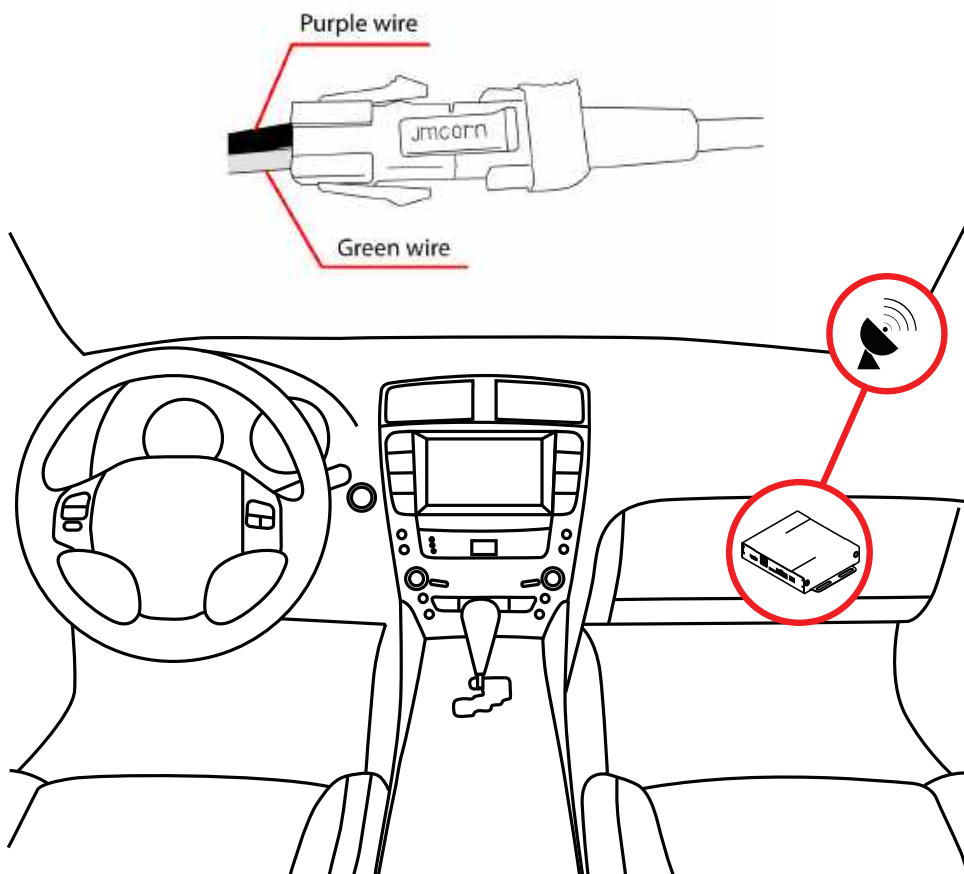
## Routing the GPS Antenna

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

You can mount it to the top of the dashboard, so there are no metal parts that obstruct the signal. We recommend mounting it inside the vehicle on the passenger side of the dashboard, as shown below. **Do not leave it inside the glove box.** Make sure the GPS antenna faces up, and there are no obstructions in front of it.

Plug the GPS antenna into the VLine VL2 Camera AV1 port.

**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. Do not break GPS antenna when unplugging it from moxex extension.



## Using factory microphone

VLine will use factory microphone for its operation. Connect 3.5mm male connector from Power Interface Cable (MFCLEX789) 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.

## Testing VLine Operation

Test VLine Operation before mounting the dashboard back. **WARNING: Make sure to reconnect all unplugged connectors back to the vehicle before cycling the ignition.**

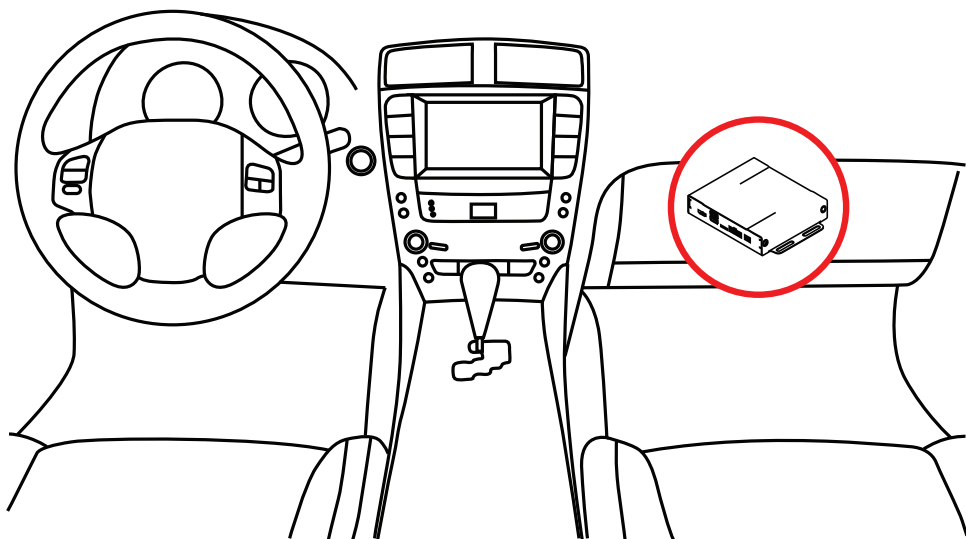
Cycle the ignition and press MEDIA button and enter AUX mode to get to VLine mode.

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

## Installation Troubleshooting

1. There is no VLine on the display, or the display is black.  
Check the GVMF cable to ensure you connected it at the back of the LCD display, and not at the back of the stereo. Make sure you reconnected the originally connected display cable back to the VLine GVMF female end.
2. The display is "flashing" or "flickering".  
Make sure there are no hard bends in the GVMF video cable, and it is installed away from the metal parts in the vehicle. Try to re-route the GVMF cable.

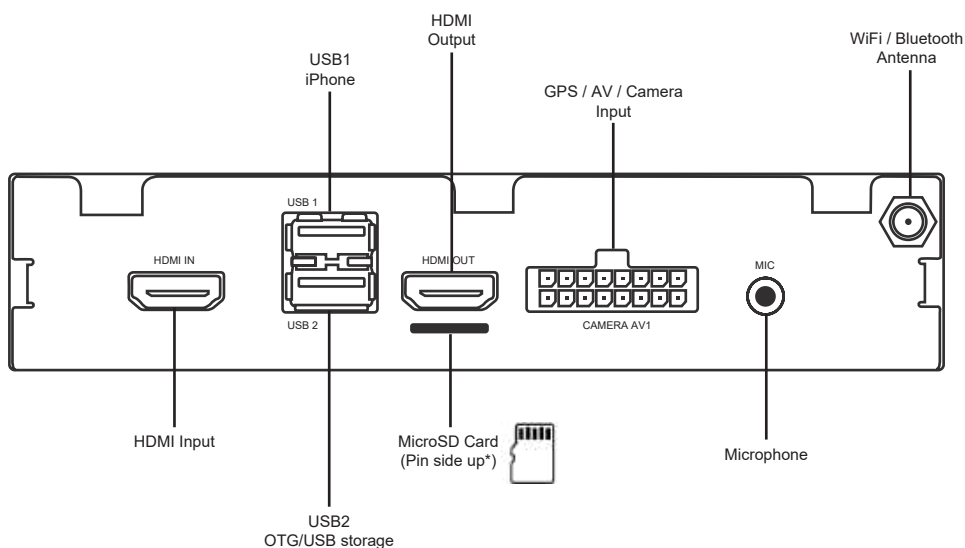




## Mounting the VLine Module

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 firmware 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. We strongly recommend mounting the unit inside the **glove compartment** for safety and accessibility.

## Understanding the VLine Ports



Continue on the next page -->

## **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.



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 mono microphone

# **CHAPTER 2 — GETTING STARTED**

## **2.1 Initializing**

After connecting the VLine module to the stereo, an Ignition Cycle will have to be performed for the stereo to discover Vline and allow Vline to self configure.

### **To INITIALIZE:**

1. Put Ignition Switch to "ACC" or "ON" position
2. Wait up to 5 Seconds
3. Put Ignition Switch to "OFF" position
4. Wait 1 minute
5. Turn Ignition Switch back to "ACC" or "ON" Position
6. Press the MEDIA button and then enter AUX mode of your stereo, to get to VLine mode.

## IMPORTANT STEPS TO PERFORM AFTER THE INSTALLATION!

### Turning OFF Auto Screen Change in Factory Stereo Settings

For VLINE stereo mode to function correctly, the “Auto Screen Change” option in the Lexus Infotainment system needs to be “OFF”.

If this function is not turned off, while using VLine, the image will switch automatically to factory UI screen on its own after 10-15 seconds. This can disrupt your VLINE experience and may cause confusion.

#### To turn this function OFF:

1. Press the stereo's MENU button > then go into SETUP > select GENERAL
2. Scroll down until you see the line saying “AUTO SCREEN CHANGE.”
3. Select OFF for AUTO SCREEN CHANGE. Make sure to hit SAVE for LEX78 vehicles.

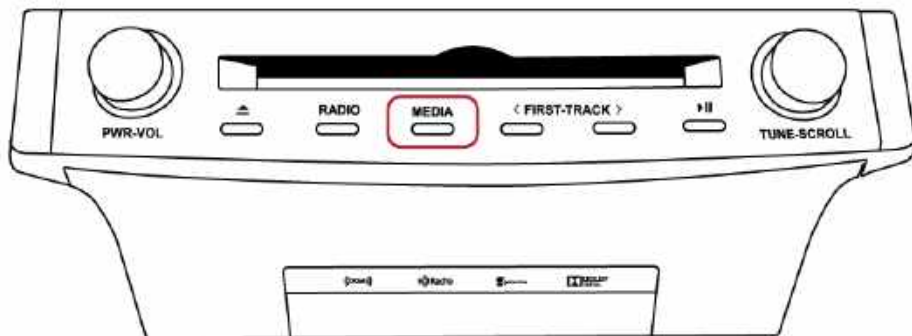
## 2.2 Functions

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

No factory functions of the stereo will be disabled, except factory AUX. Factory Bluetooth, Navigation, Radio and CD player will remain functional.

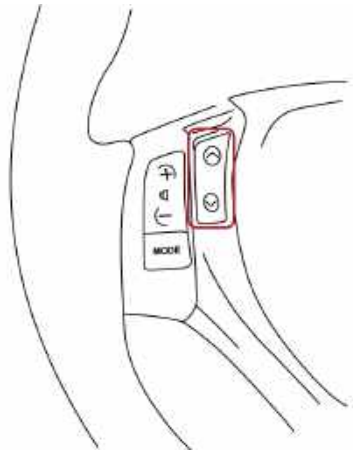
#### Selecting VLINE mode:

Press the MEDIA button to access the AUX mode of the stereo to enter into VLINE interface mode.



### Track selection in VLINE Mode

Track selection can be done with the SEEK TRACK ^ and v buttons on the steering wheel controls. No track selection from the stereo is available.

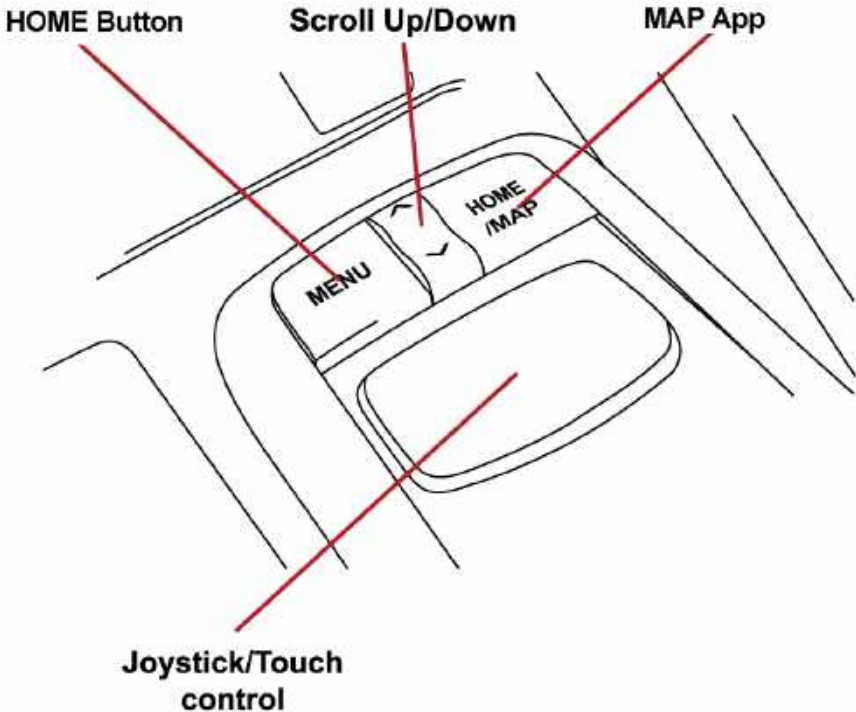


### Joystick control button operation while in VLINE Mode

MAP button is mapped to the map of your choice (select in VLine settings), or CP/AA map.

MENU - HOME Button - takes you to the main screen in AA, CP, and GROM mode.

Back Arrow - Back Button - takes you back a previous page



## 2.3 Other Stereo Functions

### 2.3.1 Factory stereo sound source and VLine display.

If you want to use the original stereo sound source (such as FM radio) while seeing the VLine UI (such as maps) at the same time, while on the Factory UI (such as in FM radio), press and hold the "MAPS" button for 2-3 seconds. In some cases you will need to use the "MENU" button instead. It will bring the VLine to the screen while the stereo sound source is FM. If you want to switch the stereo sound source back to VLine, enter VLine mode (AUX) on the stereo by pressing MEDIA button.

### 2.3.2 Voice commands - Siri®, Google Assistant® or VLine's own

Press and hold TRACK UP on the Steering Wheel Controls for 2-3 seconds. It will activate the voice assistant of your choice.

### 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.

## 2.4 Adjusting Audio Bass, Treble, Balance/Fade 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 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 AUX interface. While in the factory AUX interface, you can adjust audio settings.

Press FM and then MEDIA --> AUX on the stereo to switch back into the VLine VL2 interface mode.

## Troubleshooting and Tips

Q. The VLine mode or OEM stereo mode is flickering/blinking.

A. Ensure there are no any hard bends or cuts/pinches of the GVMF video cable. See p.5 of this manual. Ensure you connected the GVMF cable at the back of the display, and not at the back of the stereo.

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.

## SUPPORT

For technical support please visit us at [www.gromaudio.com/support.html](http://www.gromaudio.com/support.html) and fill out the form.

For live support, please go to [www.gromaudio.com](http://www.gromaudio.com).

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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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## **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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