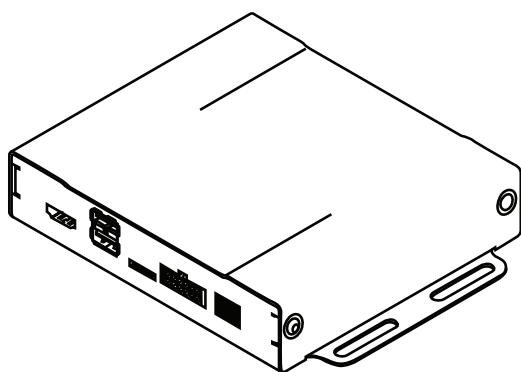


VLine



INSTALLATION MANUAL

GM1/GM1S

www.gromaudio.com
www.gromaudio.com/support.html

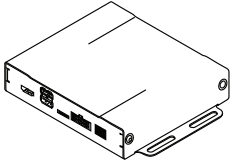
 **GROM**
AUDIO

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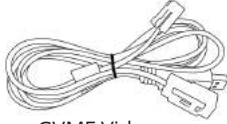
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GROM-VLINE VL2 SYSTEM

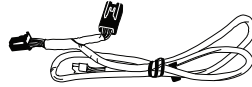
PACKAGE CONTENTS



VLine module



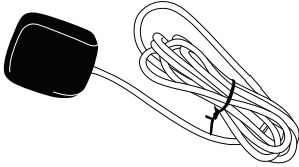
GVMF Video Cable



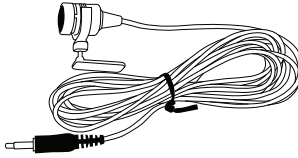
MCFGML Power Interface Cable



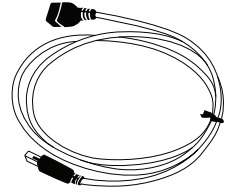
GMMINIUSB USB cable



GPS Antenna



Microphone



USB Extension cable

CHAPTER 1 — INSTALLATION

1.1 Before the installation

Before starting work with any wiring, please wait 90 seconds after turning the ignition to the OFF position and disconnecting the battery's negative (-) terminal. It will ensure that no SRS airbag 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 with the VLINE module and the installation requirements before installing and using the unit.

1.2 Tools

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

You will need some stereo removal and installation tools, plastic prying tools, a Phillips head screwdriver, a 10mm socket, and a ratchet. Additional instruments 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 VLIN.

Watch install videos:

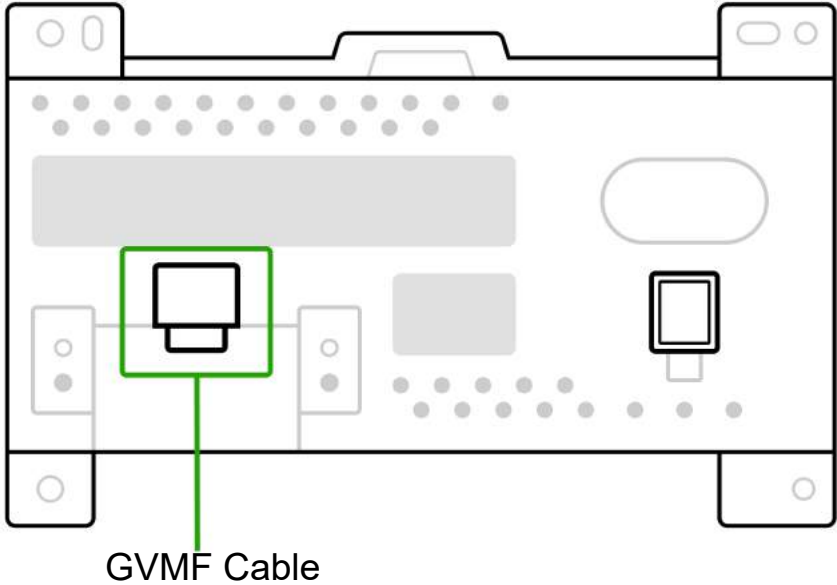
https://bit.ly/gm1_install

https://bit.ly/gm1_buick_install

Connect video cable GVMF to the factory display

Locate the BLUE display port on the back of the car stereo display. If the port is empty, plug the supplied video cable (GVMF) into the port and leave the cable's female connector with nothing attached.

If a factory cable (typically blue) is plugged in, disconnect it. Then, plug in the supplied GVMF Y-cable and reconnect the disconnected cable to the female plug of the GVMF cable.

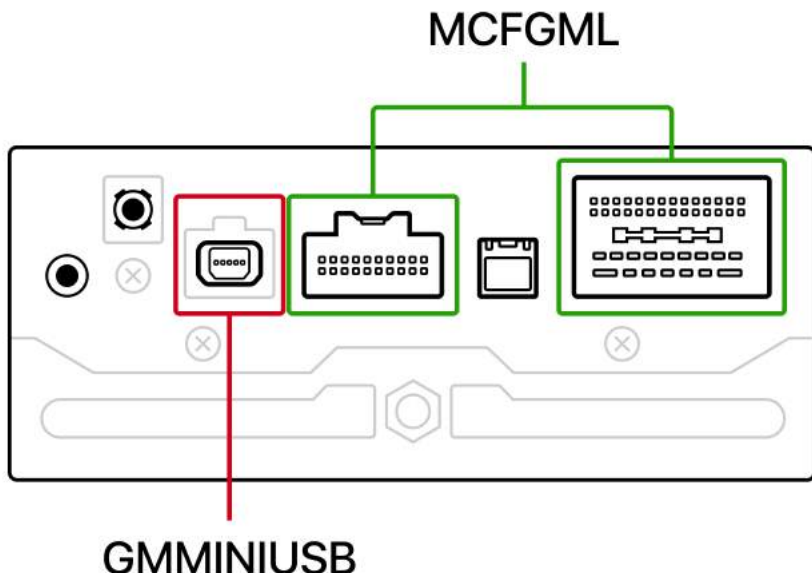


Ensure to connect the GVMF video cable to the back of the factory display and not the back of the stereo. If you connect the GVMF cable to the back of the stereo, the VLine will not show up on the screen!

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.

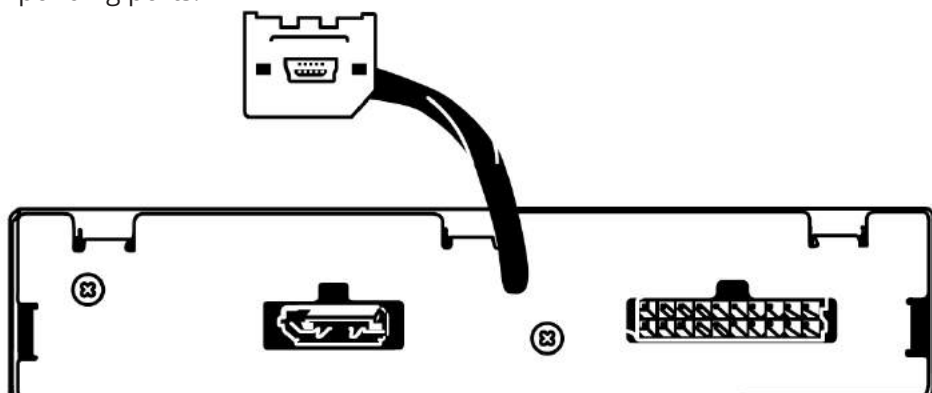
Connect the MCFGML and GMMINIUSB cables to the factory head unit

Connect the MCFGML and GMMINIUSB cables to the factory head unit. Locate the factory 44-pin ("Quadlock"), 20-pin connector, and the USB-Mini at the back of the stereo, and unplug them. Plug in supplied power interface cable (MCFGML) and USB cable (GMMINIUSB). Reconnect what was disconnected from the rear of the stereo back into the female plug of the supplied interface cable MCFGML. Leave the factory USB Mini connector disconnected behind the radio. NOTE: Factory USB will be disconnected and no longer work after installing the VLine VL2 system.



Connect GVMF video cable, MCFGML Interface cable, and GMMINIUSB cable to the VLine

Route the unused ends of GVMF video cable, MCFGML interface cable, and GMMINIUSB cable to the VLine module and connect them to the corresponding ports.



Important! Correct placement of VLine in your vehicle

It is important to make sure you position VLine unit avoiding any excessive bends in the video cables and movement of the unit.

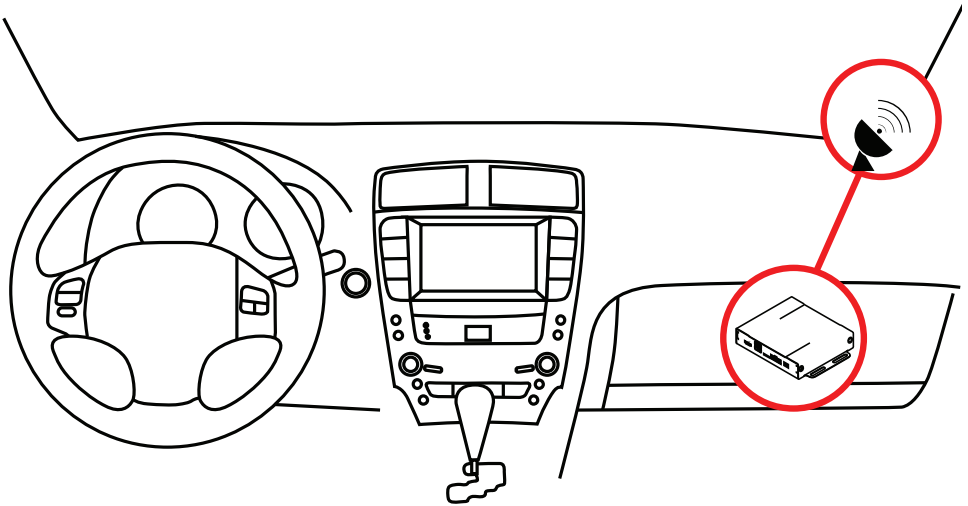
Place VLine inside the glove box compartment, with the left side facing the glove box compartment door, and video cables facing the stereo. Secure the unit with the Velcro or mounting brackets. This type of positioning will ensure that the video cables are not being bent or damaged inside the glove box, and VLine's ports such as USB, MicroSD card and others are still being accessible.

Routing the GPS antenna

It can be mounted to the top of dashboard or to outside of vehicle whichever you prefer. Route to desired location. We recommend mounting inside of the vehicle on the passenger side of the dashboard as shown below.

Plug GPS antenna into Camera AV port of VLine unit.

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



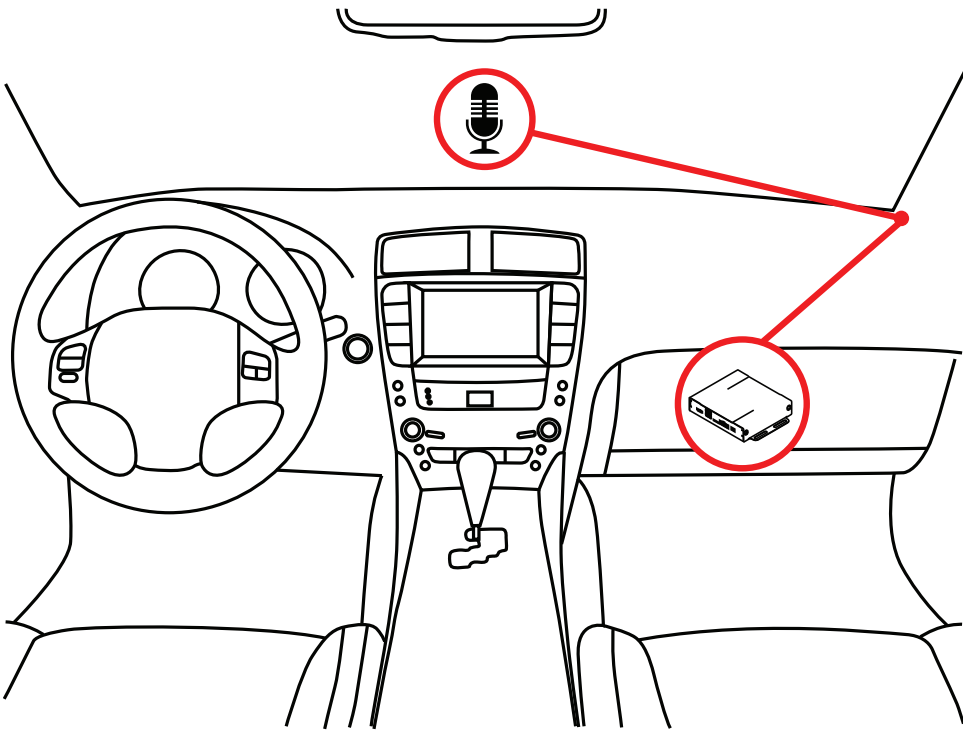
Routing the microphone

Route the microphone to where it can pick up the voice clearly. We recommend mounting MIC near the rearview mirror but not on the windshield glass. Avoid sticking to the hard surface as it will pick up more noise (see next page for the illustration).

Plug the microphone into the MIC port of the VLine module.

Adjusting the microphone gain for CarPlay® or AAuto®

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. **Adjust the microphone gain to 65.** If the calls sound distant or have some noise, try adjusting the gain, either higher or lower, to your liking.



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 SOURCE button until in USB mode to enter 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, not at the back of the stereo. Ensure you reconnect the initially connected display cable to the VLine GVMF female end.

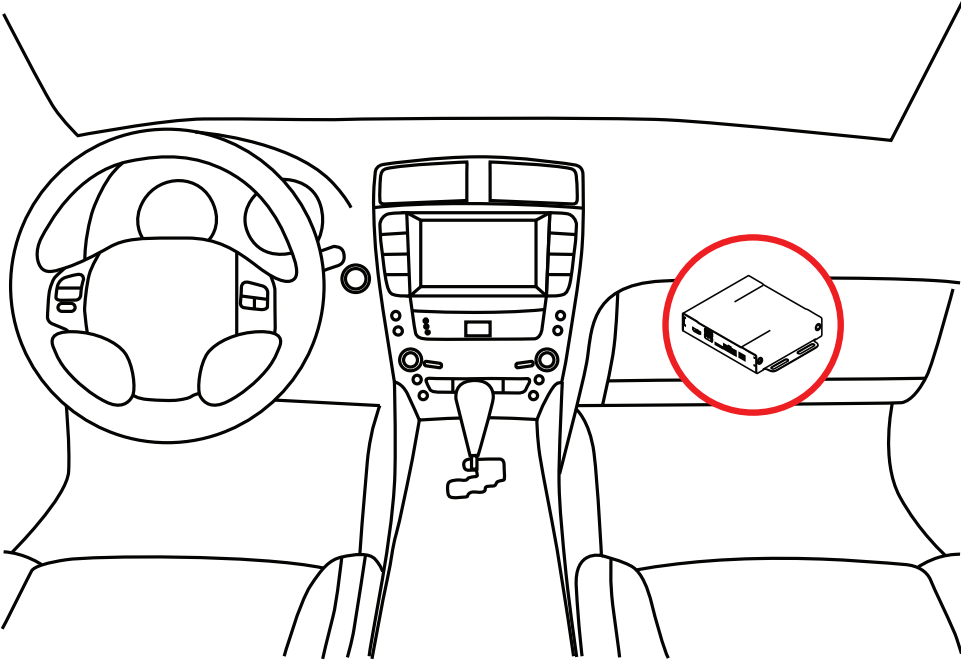
2. The display is "flashing" or "flickering".
Ensure there are no hard bends in the GVMF video cable, and it is installed away from the metal parts in the vehicle. Try to re-route the GVMF cable.

3. The VLine is not visible under the stereo USB source, or the stereo USB source is not accessible.

Check the GMMINIUSB cable and ensure it is properly connected to the USB pigtail cable of the VLine and the VLine's USB pigtail cable is securely attached inside the VLine main module.

Mounting the VLine Module

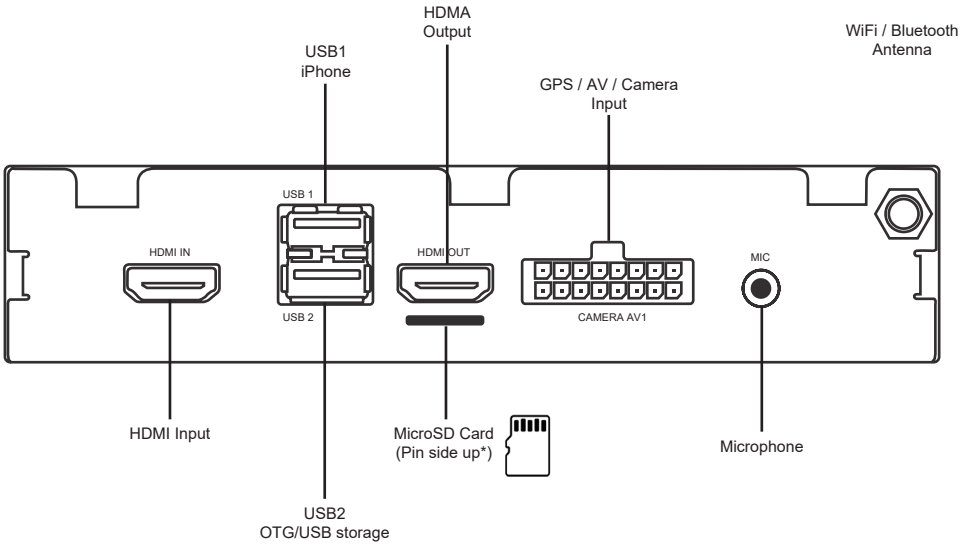
Mount the VLine main module in an easily accessible location, such as the glove compartment, for easy access to the USB ports and to upgrade the firmware on the VLine module. Do not leave the unit inside the dashboard, as it can damage the unit and its Bluetooth antenna and affect the Bluetooth / Wifi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



Install the interface in a location free from heat, humidity, moving parts, or direct sunlight. Beware of hot-air flow from your vehicle's climate control system.

System's operating temperature range is -30°C to $+70^{\circ}\text{C}$ (-24°F to $+158^{\circ}\text{F}$)

Understanding VLine ports



USB1

iPhone connection

Any other USB device (Keyboard / Mouse)

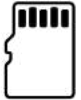
USB2

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 main screen to use the feature)

Pin Side Up

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 a 3.5mm mono microphone.

CHAPTER 2 — GETTING STARTED

2.1 Initializing

After connecting the VLine module to the stereo, and reconnecting all unplugged connectors back to the vehicle, 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 SOURCE button until you are in the USB mode of the stereo and able to select the VLINE interface.

2.2 Functions

The GROM VLINE emulates the factory USB mode of the stereo. Factory USB mode will be disabled with the installation of VLine. You can use the USB functions of VLine in place of factory USB functions.

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

Selecting the VLINE mode:

Press the SOURCE button until the stereo is in USB mode, to enter into VLINE interface mode. You may need to cycle through the sources to get there.

2.3 Home Button, Back Button, and Selection Knob

Home Button - takes you to the main screen in Android Auto, C-Play, and VLine mode.

Back Button - Takes you back to a previous page

Selection Knob - allows you to select apps icons in AA, CP, or VLine mode. Continue on the next page --->



Press SOURCE Button to enter Factory USB mode / VLine mode

2.4 Adjusting Audio Bass, Treble, Balance/Fade for VLINE

Use the Factory UI icon to get to the factory UI and adjust the 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 USB interface. While in the factory USB interface, you can adjust audio settings.

Go to FM and then press SOURCE button to switch back into the VLine VL2 interface mode (USB mode of the stereo).

2.5 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. Ensure you connected the GVMF 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. Ensure you reconnected the original factory cable back to the GVMF Y-shaped cable. Watch video at https://bit.ly/gvmf_cable_troubleshoot_gm1

Continue on the next page -->

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.

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. The microphone is not picking up the voice in CarPlay or Android Auto, or there is a lot of noise.

A. Ensure you connected the 3.5mm jack of the microphone cable to the microphone port of the VLine main unit. Ensure you adjusted the microphone gain to your liking or recommended gain of 65. See p.7 of this guide.

Q. CarPlay/Android Auto does not connect wireless, or VLine misbehaves.

A. Ensure you have the latest updates on the VLine by connecting the VLine to the WiFi and going to: Settings -> System -> VLine System Updates -> Check For Updates.

Q. CarPlay/Android Auto does not connect wired.

A. Ensure the cable you are using to connect the VLine and Phone is a high quality cable, as CP/AA will show issues with lower quality/ worn cables.

Q. I cannot enter the USB mode on my stereo screen to access VLine.

A. Double-check the GMMINIUSB cable connection behind the stereo. Ensure the VLine "pigtail" is securely attached to the VLine.

Q. CarPlay/Android Auto does not connect wireless or has troubles staying connected.

A. Ensure the Bluetooth antenna is not broken, and there are no metal parts that can block the Bluetooth and Wi-Fi signals. Secure the VLine module in the glove compartment for better accessibility. See p.9.

Q. The sound from the VLine is not good enough.

A. Adjust audio, bass, trebble for the stereo's VLine mode (USB mode) by using Factory UI icon the the VLine interface. See p.12 for details.

Watch install videos:

https://bit.ly/gm1_install

https://bit.ly/gm1_buick_install

User Manual

Please refer to the User Manual included with your purchase regarding to the next steps required to set up your VLine infotainment system.

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.

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Eighteen (18) Month Limited Warranty

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WITHOUT RMA NUMBER THE RETURNS ARE NOT ACCEPTED!

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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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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.

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