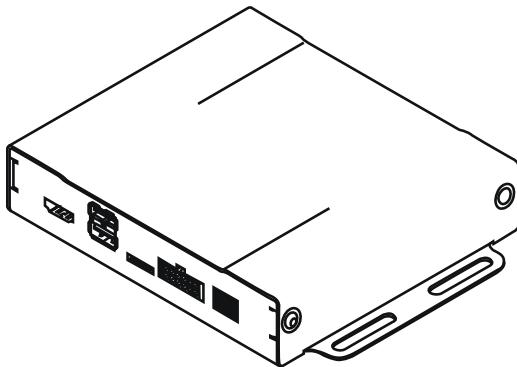


vLine



INSTALLATION MANUAL

LEX9

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

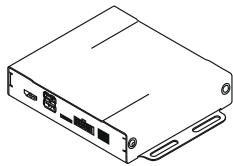
 **GROM**
AUDIO

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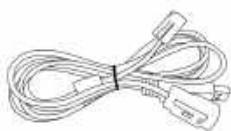
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GROM-VLINE VL2 SYSTEM

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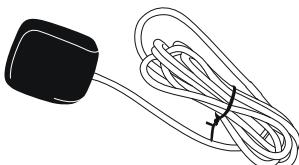
VLine module



GV9MF Video Cable



MCFLEX9 Power Interface Cable



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 dissembles 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 install video at
https://bit.ly/lex9_install
(YouTube) or scan QR code to
watch -->**

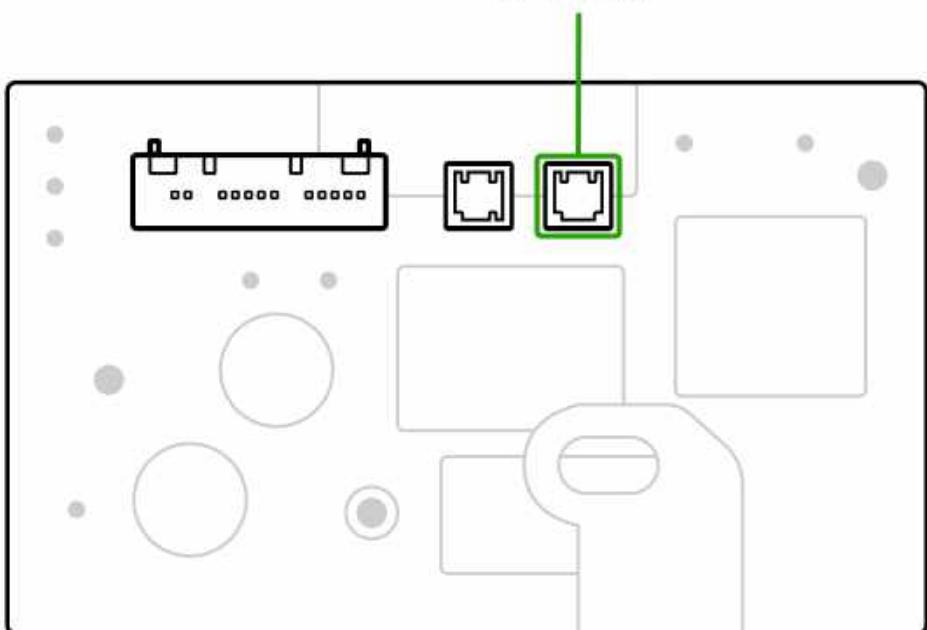


Connect supplied Display Harness Cable GV9MF to factory display

Locate BLUE Display port on rear of Multi Display ECU. If the port is empty, plug in supplied video cable (GV9MF) into port and leave female portion of cable with nothing attached.

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

GV9MF

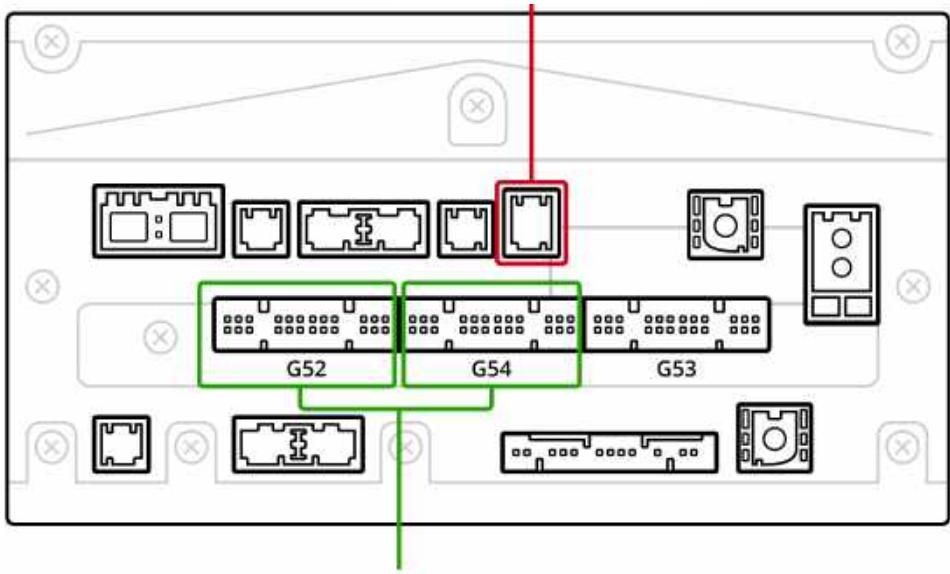


Connect VLine interface MCFLEX9 cable to the factory head unit

Locate the factory 28-pin and 30-Pin connector at the back of the stereo, and unplug them. Plug in supplied power interface cable (MCFLEX9) . Reconnect what was disconnected from the rear of the stereo back into the female plug of the supplied interface cable MCFLEX9.

**Watch install video at
https://bit.ly/lex9_install
(YouTube) or scan QR code to
watch -->**

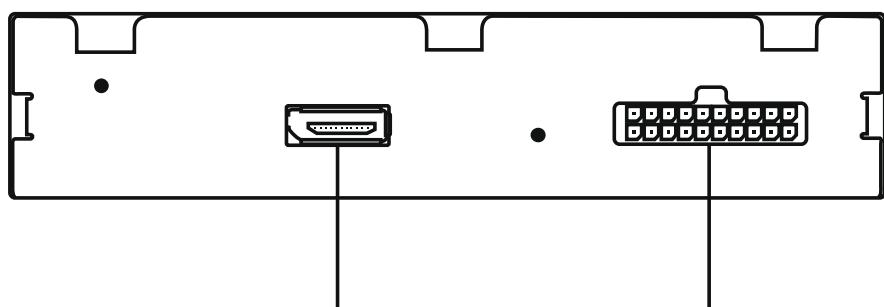




MCFLEX9

Connect GV9MF video cable and MCFLEX9 Interface cable to VLine

Route the unused ends of GV9MF Video cable and MCFLEX9 Interface cable to the VLine module and connect them to the corresponding ports.



VIDEO CABLE

**INTERFACE
CABLE**

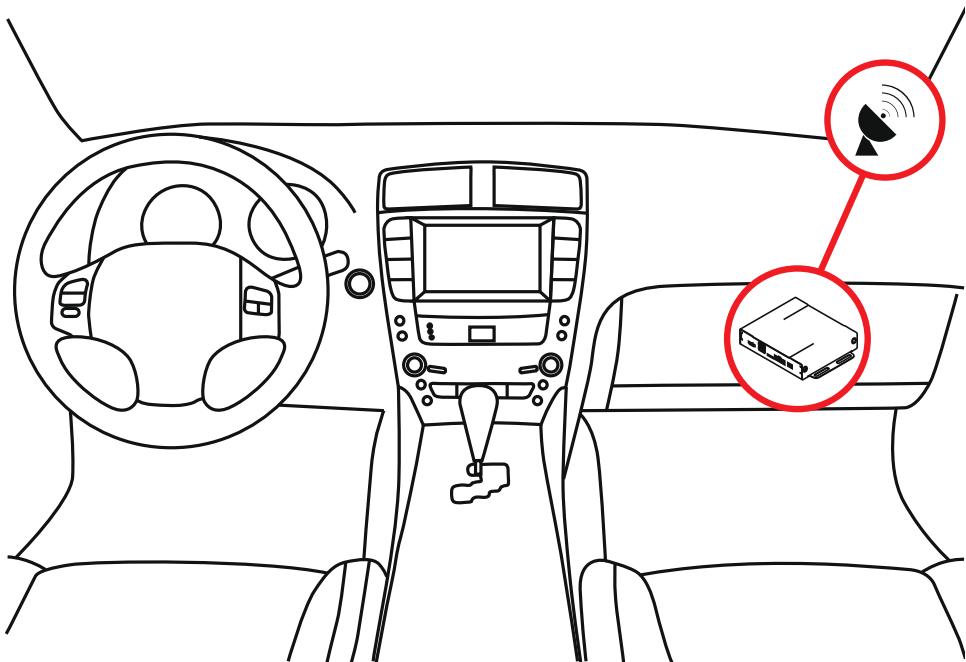
Routing the GPS Antenna

The GPS Antenna module is magnetic as well as supplied with double sided tape.

It can be mounted to the top of dashboard or to outside of vehicle whichever you prefer. We recommend mounting it inside of vehicle on passenger side of the dashboard as shown below. Make sure GPS antenna is facing up, and there are no onstructions in front of it.

Plug GPS antenna info VLine VL2 Camera AV1 port.

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.



Using factory microphone

VLine will use factory microphone for its operation. Connect 3.5mm male connector from Power Interface Cable (MFCLEX9) to the microphone port of VLine (see p. 10 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®

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 until in AUX 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 GV9MF 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 GV9MF female end.
2. The display is "flashing" or "flickering".
Make sure there are no hard bends in the GV9MF video cable, and it is installed away from the metal parts in the vehicle. Try to re-route the **GV9MF** cable.

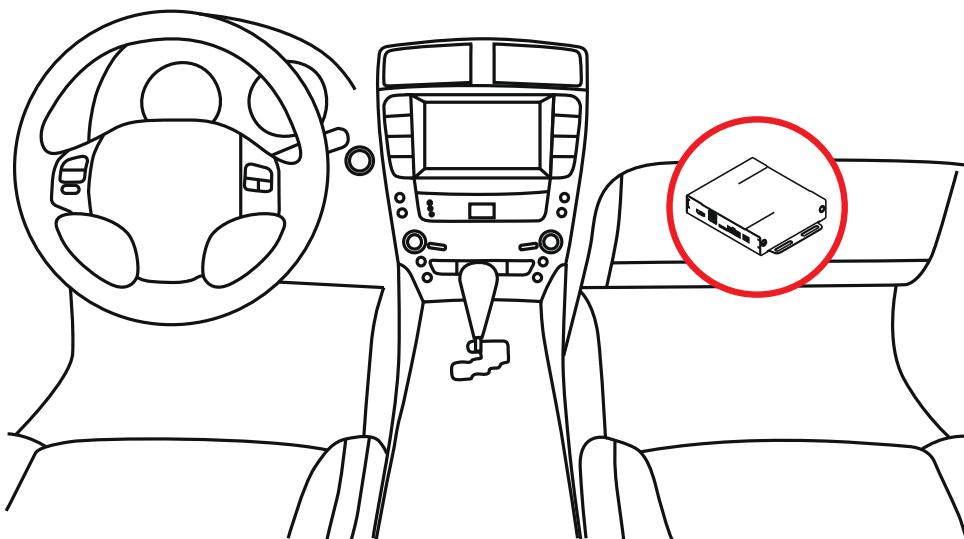
Mounting the VLine Module

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.

Mounting Video Cable and Securing VLine

Important: Do not bend or pinch video cables, to avoid problems with video signal. There should be no any bends of the video cable next to the connectors that go to the back of the stereo or VLine, and no any sharp bends anywhere else.

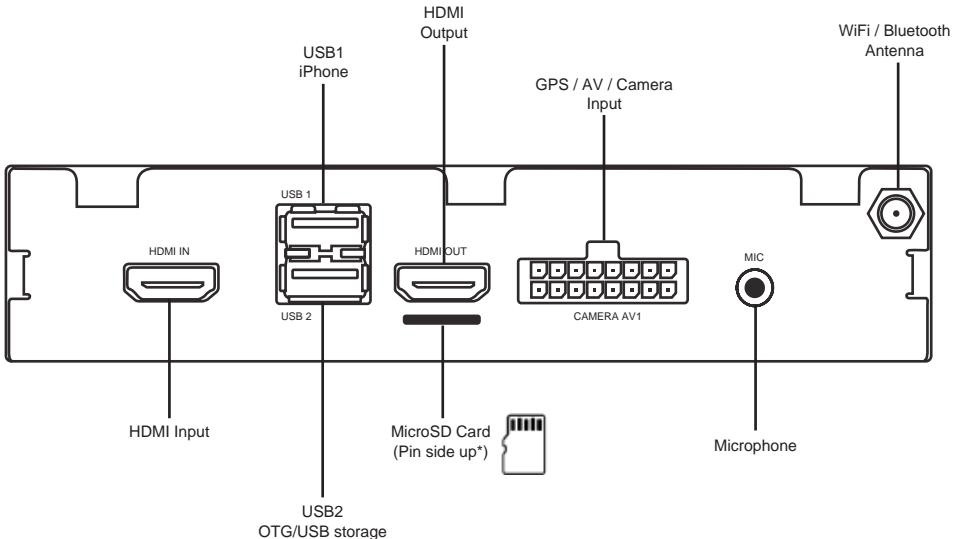
Secure VLine with zip ties, velcro or mounting brackets to make sure the VLine does not bounce or move while the vehicle is in motion.



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°C (-24°F to +158°F)

Understanding VLine Ports



USB1

iPhone or Android connection

Any other USB device (Keyboard / Mouse)

USB2

USB flash drive

Any USB device (Android, Keyboard / Mouse),

Android phone

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 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, 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. Note that you need to do it only once upon initial setup.

To INITIALIZE:

1. Put Ignition Switch to “ACC” or “ON” position
2. Wait up to 5 Seconds
3. Put the Ignition Switch to “OFF” position
4. Wait 1 minute
5. Turn Ignition Switch back to “ACC” or “ON” Position
6. Press the MEDIA button until you are in the AUX mode of the stereo and able to select the VLINe interface.

Watch demo video at https://bit.ly/lex9_demo

(YouTube) or scan QR code to watch -->



2.2 Functions

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

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

Selecting the VLINe mode:

Press the MEDIA button until the stereo is in AUX mode, to enter into VLINe interface mode. You may need to cycle through the sources to get there.

Continue on the next page -->



Press MEDIA button until in factory AUX mode

Controls available on the mouse pad

The VLine is controlled by the mouse in the center area. The following controls are available:

MEDIA - press until in VLine mode / AUX mode

MAP - activates MAP App on VLine, or CC/AA

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

Watch demo video at https://bit.ly/lex9_demo
(YouTube) or scan QR code to watch -->



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.

2.4 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/blinging.

A. Ensure there are no any hard bends or cuts/pinches of the GV9MF video cable. See p.5 of this manual. Ensure you connected the GV9MF 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.

Q. Stereo does not see VLine connected.

A. Ensure you initialize the connection as shown on page 11. Note that you need to go through the initialization process only once.

SUPPORT

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For live support, please go to www.gromaudio.com.

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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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