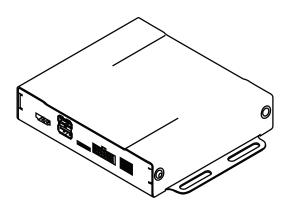
# VLine



# INSTALLATION MANUAL

GM1C

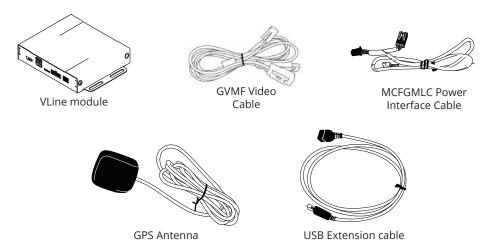


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# **GROM-VLINE VL2 SYSTEM**

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# **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.

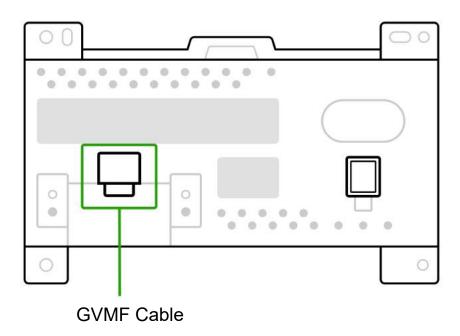
Do not use Vline in a manner that would distract the driver or that may otherwise cause injury or death to vehicle occupants or bystanders.

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.

# Connect supplied Display Harness Cable GVMF to factory display

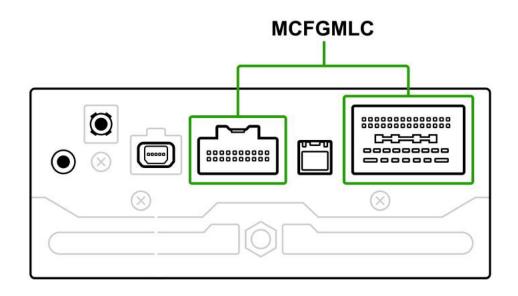
Locate BLUE Display port on rear of Multi Display ECU. If the port is empty, plug in supplied video cable (GVMF) into port and leave female portion of cable with nothing attached.

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.



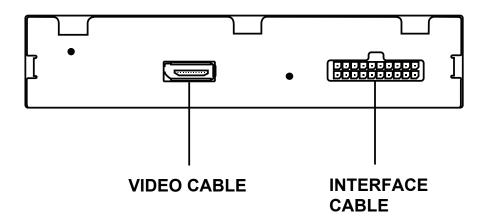
# Connect VLine interface MCFGMLC cable to the factory head unit

Locate the factory 44-pin ("Quadlock"), 20-Pin connector and unplug it. Plug in supplied power nterface cable (MCFGMLC). Reconnect what was disconnected from the rear of the stereo back into the female plug of the supplied interface cable MCFGMLC.



# Connect GVMF video cable and MCFGMLC Interface cable to VLine

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



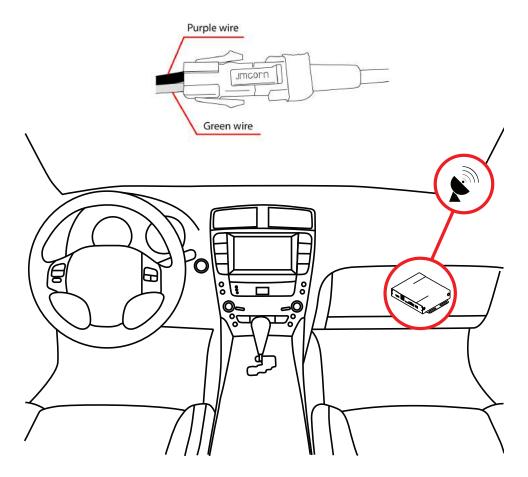
# **Routing the GPS Antenna**

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



# **Using factory microphone**

VLine will use factory microphone for its operation. Connect 3.5mm male connector from Power Interface Cable (MFCGM1C) 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®

- 1. Go to VLine home screen, tap on three horisontal 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 screen to automatically adjust the microphone gain.
- 4. Follow to the instructions on the screen and adjust microphone gain.

We usually recommend setting the microphone gain to 45.

# **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 AUDIO button. Place stereo into 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.

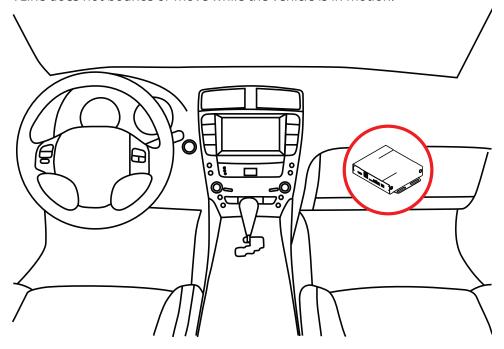
# **Mounting the VLine Module**

Mount module in the location free of any moving parts. We strongly recommend mounting the module in an easily accessible location such as the glove compartment for an easy access to the USB ports and in case of needing to upgrade firmware on the VLine module.

# **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.

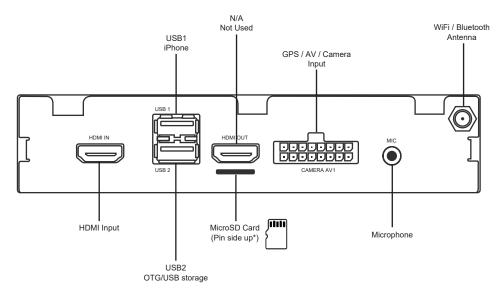
Secure VLine with zip ties, velcro or mounting brackets to make sure the VLine does not bounce or move while the vehicle is in motion.



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)

#### USB<sub>2</sub>

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**

N/A, not used

#### 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.

#### 2.2 Functions

The GROM VLINE emulates the factory AUX mode of the stereo. Factory AUX mode will be disabled with the installation of VLine.

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 AUDIO button and enter your stereo into AUX mode, to enter into VLINE interface mode. You may need to cycle through the sources to get there.



# Info Button, Config Button, and Selection Knob

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

Info Button - takes you back to a previous page.

Selection Knob - allows you to select apps icons in AA, CP, or VLine mode.

#### **Android Auto**

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

For wireless Aandroid Auto check https://bit.ly/viline\_aa\_wireless

# Adjusting Audio Bass, Treble, Balance/Fade for VLINE Mode

To adjust, press on Factory UI button within VLine menu. To get to Factory UI button, press on empty PLUS sign and go to Shortcuts --> Factory UI. Factory Display will switch from VLINE interface into factory AUX interface to adjust Audio settings.

Press AUDIO button on the stereo to switch back into VLine interface mode.

# **Troubleshooting**

The Factory Display works but the VLine only shows a black screen in the AUX Source.	Check that the GVMF cable is connected behind the display and not behind the radio.
CarPlay/Android Auto does not connect Wirelessly.	Ensure you have the latest updates on the VLine by connecting the VLine to WiFi and going to: Settings -> System -> VLine System Updates -> Check For Updates
CarPlay/Android Auto does not connect Wired.	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.
The VLine will not play audio.	Make sure you are in the AUX source on the radio and that nothing is connected to the factory AUX port. Test the audio via the A2DP Plugin on the VLine with a Bluetooth Device that is only paired to the VLine.
The Factory Display or VLine image is flickering.	Double check that the GVMF cable is not bent or pinched between the VLine and the Display.

#### **SUPPORT**

For technical support please visit us at <a href="https://www.gromaudio.com/support.html">www.gromaudio.com/support.html</a> and fill out the form. For live support, please go to <a href="https://www.gromaudio.com">www.gromaudio.com</a>.

Please check our FAQ at <a href="https://www.gromaudio.com/support/faq.html">www.gromaudio.com/support/faq.html</a>, videos and installs at <a href="https://www.gromaudio.com/installs/index.html">www.gromaudio.com/installs/index.html</a>.

#### 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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# By purchasing or otherwise obtaining GROM Product you agree:

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

You futher agree to use the GROM Product in:

- a manner consistent with all applicable laws and regulations and this Agreement;

- a reasonable, safe and appropriate manner considering all the circumstances associated with that use.

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- in a manner that could damage or cause risk to GROM Audio business, reputation, employees, customers, facilities, or to any third party,
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