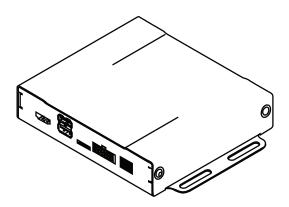
# VLine



# INSTALLATION MANUAL

LEX5

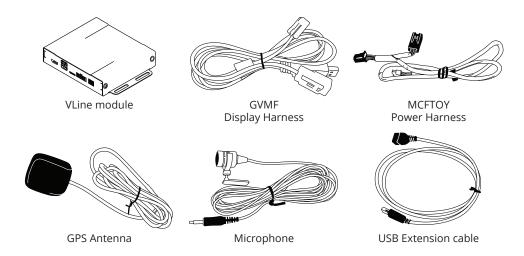


# **CONTENTS**

Package contents	3
CHAPTER 1 — INSTALLATION.	3
1.1 Before Installation	3
1.2 Tools	3
1.3 Vehicle Installation	3
1.4 Safety Guidelines & Appropriate Use	4
Connect supplied Display Harness Cable to factory Display	5
Connect VLine Interface cable to Factory Head unit	6
Connecting to VLine	6
Routing the GPS Antenna	7
Routing the Microphone	8
Mounting the VLine Module	9
Understanding VLine Ports	10
CHAPTER 2 — GETTING STARTED	11
SUPPORT.	13
WARRANTY	13
EIGHTEEN MONTH (18) LIMITED WARRANTY	
GRANT OF LICENSE.	14
OPERATIONAL WARNING AND SAFETY INSTRUCTIONS.	15

# **GROM-VLINE SYSTEM**

#### PACKAGE CONTENTS



# **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.

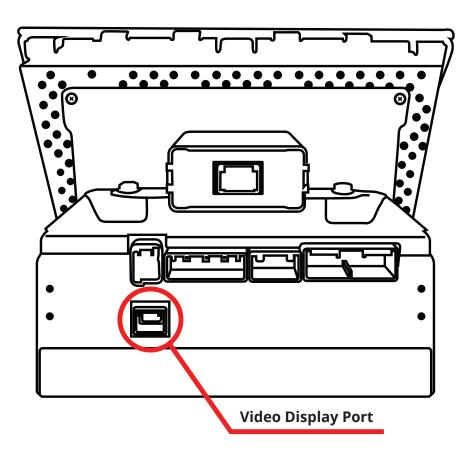
IT IS ILLEGAL IN MOST STATES OF THE UNITED STATES AND MAY BE ILLEGAL IN OTHER JURISDICTIONS FOR ANY TELEVISION OR OTHER VIDEO DISPLAY, STREAM, TRANSMISSION OR BROADCAST TO BE VISIBLE TO THE DRIVER WHILE THE VEHICLE IS IN MOTION. YOU AGREE NOT TO USE ANY VISUAL COMPONENT OF VLINE WHILE IN CONTROL OF A 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 to factory Display**

Locate BLUE Display port on rear of Multi Display ECU.

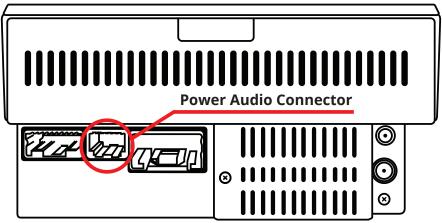
If the port is Empty, plug in supplied video cable (GVMF) into port and leave female portion of cable with nothing attached.

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.



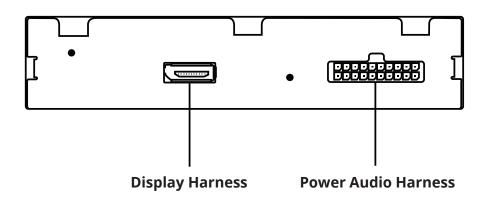
# **Connect VLine Interface cable to Factory Head unit**

Located 12-pin connector and unplug. Plug in supplied Power Audio Wiring Harness Interface cable (MCFTOY). Reconnect back what was disconnected from the rear of the stereo back into the female plug of the supplied interface cable.



# **Connecting to VLine**

Route the unused end of Display Cable and Power Audio Cable to the VLine module and connect them to the correctly labeled ports.

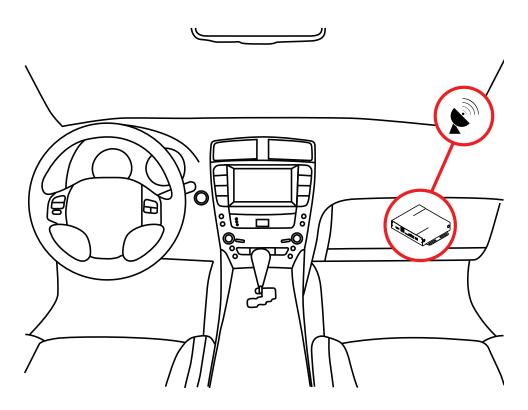


# **Routing the GPS Antenna**

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. Route to desired location. We recommend mounting on inside of vehicle on passenger side of the Dashboard as shown below.

Plug the GPS antenna into the port labeled **CAMERA AV1** on the VLine Module

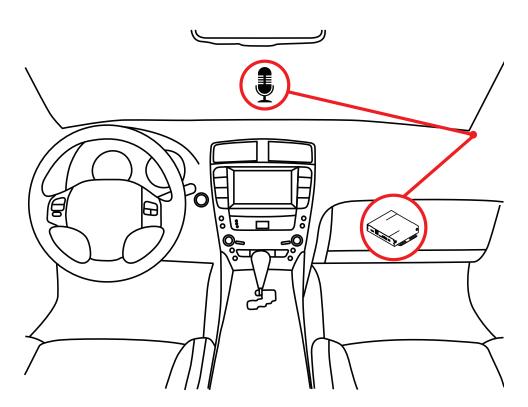


# **Routing the Microphone**

Route microphone to a location where it will be able to pick up voice clearly.

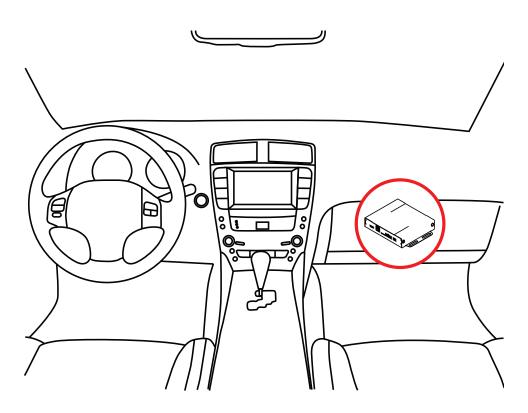
We recommend to mount MIC nearby the rear view mirror but not directly on windshield glass. Avoid sticking to the hard surface as it will pick up more noise.

Plug the microphone into the MIC port of the VLine module



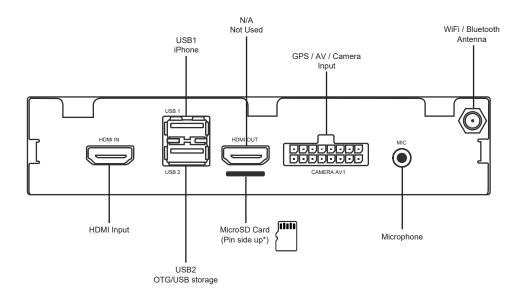
# **Mounting the VLine Module**

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



Securely mount and 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. The interface should be secured in a suitable location, free of sharp metal edges, using double-sided tape, Velcro, or wire ties. The adapter's operating temperature range is -30°C to +70°C (-24°F to +158°F)

# **Understanding VLine Ports**



#### USB1

iPhone connection
Any other USB device (Keyboard / Mouse)

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

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**

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, 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 DISC button until you are able to select the VLINE interface. (may take more than 2 presses of the DISC for accessing as first press is for built-in CD/DVD changer in most cases)

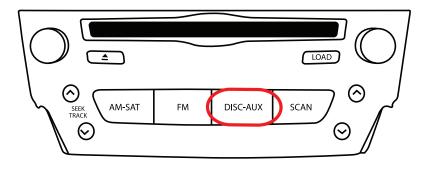
#### 2.2 Functions

The GROM VLINE emulates the factory external CD changer mode or USB mode of the stereo depending on vehicle year and model that it is installed into.

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 DISC button to access the external CD changer mode of the stereo to enter into VLINE interface mode (may need to press DISC few times).

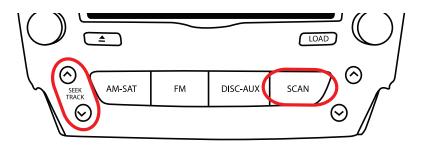


### Adjusting Audio Bass, Treble, Balance/Fade for VLINE Mode.

To adjust, press SCAN button 3 (three) times. Factory display will switch from VLine Interface into factory CD changer interface to adjust Audio settings.

Press SCAN button 3 (three) times again to switch back into VLine Interface mode again

Track selection can be done with the stereo's SEEK TRACK ^ and v buttons or steering wheel buttons.



#### **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 <a href="www.gromaudio.com/">www.gromaudio.com/</a> support.html and fill out the form. For live support, please go to <a href="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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Any use of the PRODUCTS where it is illegal to do so, may be used against you as evidence of negligence in the event of an auto accident or other traffic infraction.

# 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:

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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.

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# FCC Radio Frequency Exposure and Declaration of Conformity

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- —Reorient or relocate the receiving antenna.
- —Increase the separation between the equipment and receiver.
- —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- —Consult the dealer or an experienced radio/TV technician for help.

WARNING: This equipment radiates radio frequency energy at a level below the United States FCC radio frequency exposure limits. Nevertheless, this device should be used in such a manner that the potential for human contact during normal operation is minimized.

The equipment must be installed to provide a separation distance of at least 20cm from people to ensure compliance with the RF exposure requirements.

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