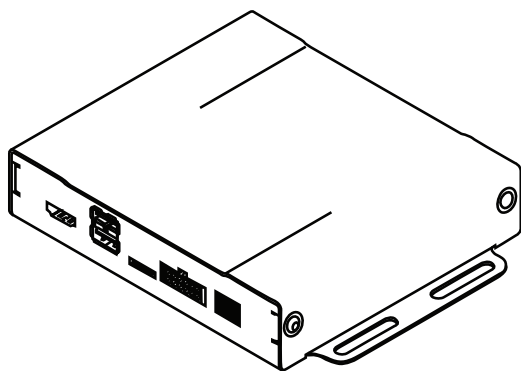


# VLine

Lite



## INSTALLATION MANUAL

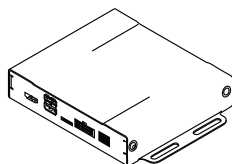
**LEX7 / LEX89**

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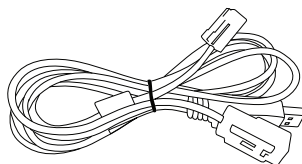
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# GROM-VLINE SYSTEM

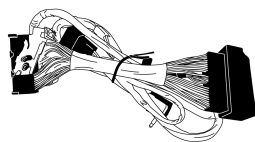
## PACKAGE CONTENTS



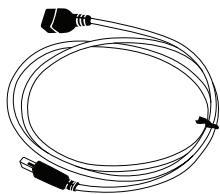
VLine Lite module



GVMF  
Display Harness



MFCLEX7 /  
MCFLEX789 Power  
Harness



USB Extension cable



WLTOYUSB 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.

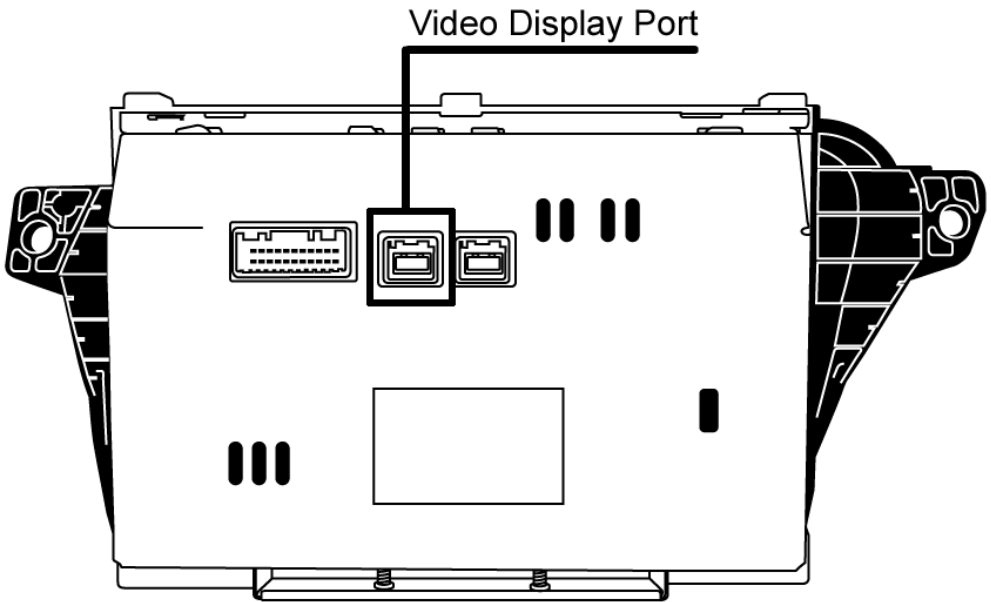
IT IS ILLEGAL IN MOST STATES OF THE UNITED STATES AND MAY BE ILLEGAL IN OTHER JURISDICTIONS FOR ANY TELEVISION OR OTHER VIDEO DISPLAY, STREAM, TRANSMISSION OR BROADCAST TO BE VISIBLE TO THE DRIVER WHILE THE VEHICLE IS IN MOTION. YOU AGREE NOT TO USE ANY VISUAL COMPONENT OF VLine WHILE IN CONTROL OF A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

## Connect supplied Display Harness Cable to factory Display

Locate BLUE Display port on rear of Multi Display ECU.

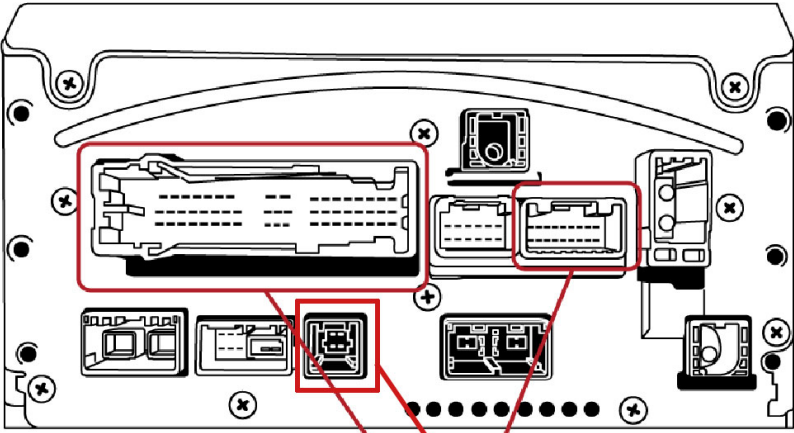
If the port is Empty, plug in supplied video cable (GVMF) into port and leave female portion of cable with nothing attached.

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 MCFLEX789 cable and WLTOYUSB 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 (MFC) and plug in supplied Power Audio Wiring Harness 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, except USB connector. Leave factory USB connector unplugged.

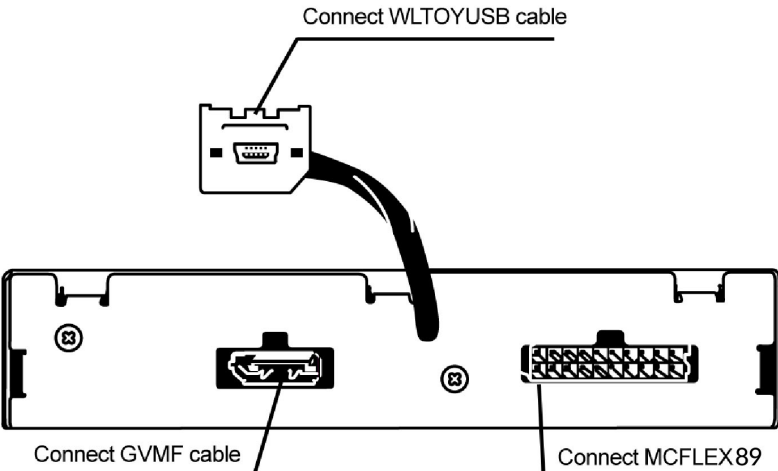


**Power Audio Connectors**

**USB Connector**

## Connecting to VLine

Route the unused end of Display, USB, and Power Audio Cables to the VLine.



## Using factory microphone

VLine will use factory microphone for its operation. Connect 3.5mm male connector from Power Audio Cable Harness (MFCLEX7/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.

## Testing VLine Lite Operation

Test VLite 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 to enter USB (VLine Lite mode). You might need to press MEDIA few times.

If VLine Lite UI 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.

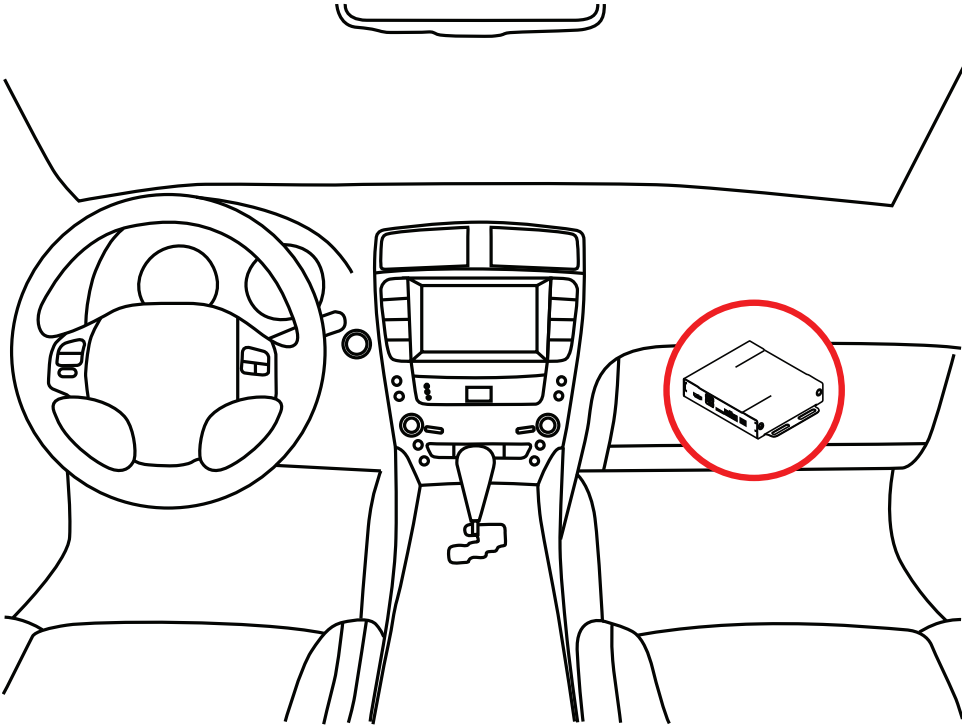
## Mounting Video Cable and Securing VLine Lite

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

## Mounting the VLine Module

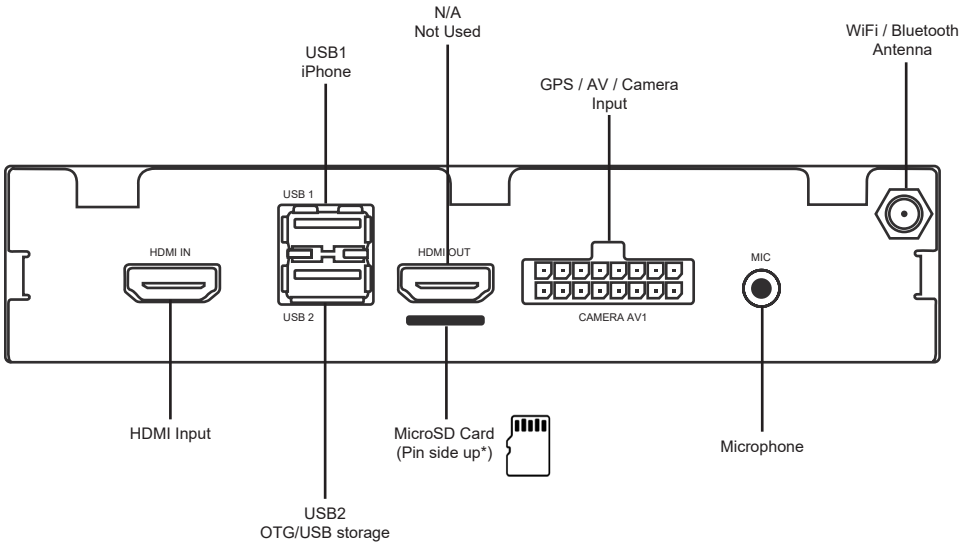
Mount module in location free of any moving parts. We strongly recommend mounting the module in an easily accessible location such as the glove compartment for easy access to the USB ports and in case of needing to upgrade firmware on the VLine module.



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  $-30^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$  ( $-24^{\circ}\text{F}$  to  $+158^{\circ}\text{F}$ )



# Understanding VLine Ports



## USB1

iPhone connection

Any other USB device (Keyboard / Mouse)

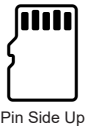
## USB2

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

### **IMPORTANT STEPS TO PERFORM AFTER INSTALLATION!**

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

In order for VLINE mode to function properly 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 GUI screens on its own after 10-15 seconds has passed.

#### **To turn this function OFF:**

1. Press MENU button > then go into SETUP > select GENERAL
2. Scroll down until you see option line AUTO SCREEN CHANGE.
3. Select OFF for AUTO SCREEN CHANGE. Make sure to hit SAVE for LEX7 vehicles.

## 2.2 Functions

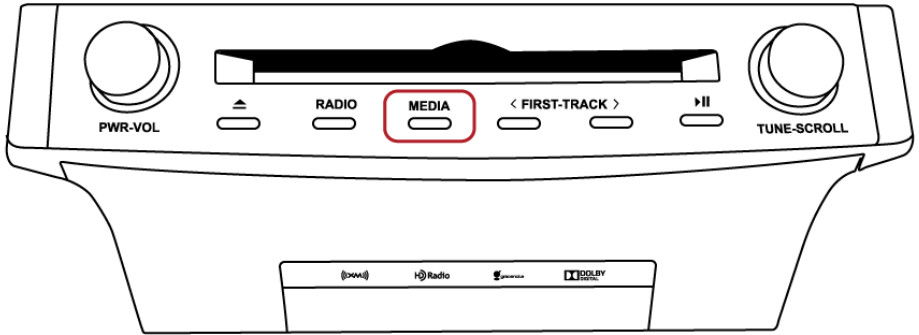
The GROM VLINE Lite LEX89VT1 emulates the factory USB mode of the stereo.

No factory functions of the stereo will be disabled, except factory USB.

Factory Bluetooth, Navigation, Radio and CD player will remain functional.

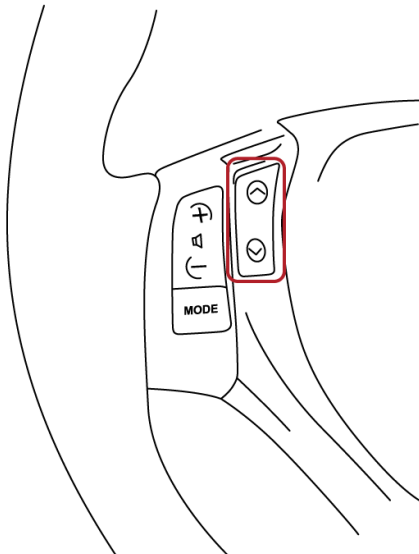
### Selecting VLINE mode:

Press the MEDIA button to access the AUX mode of the stereo to enter into VLINE interface mode (may need to press MEDIA few times).



### 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.



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

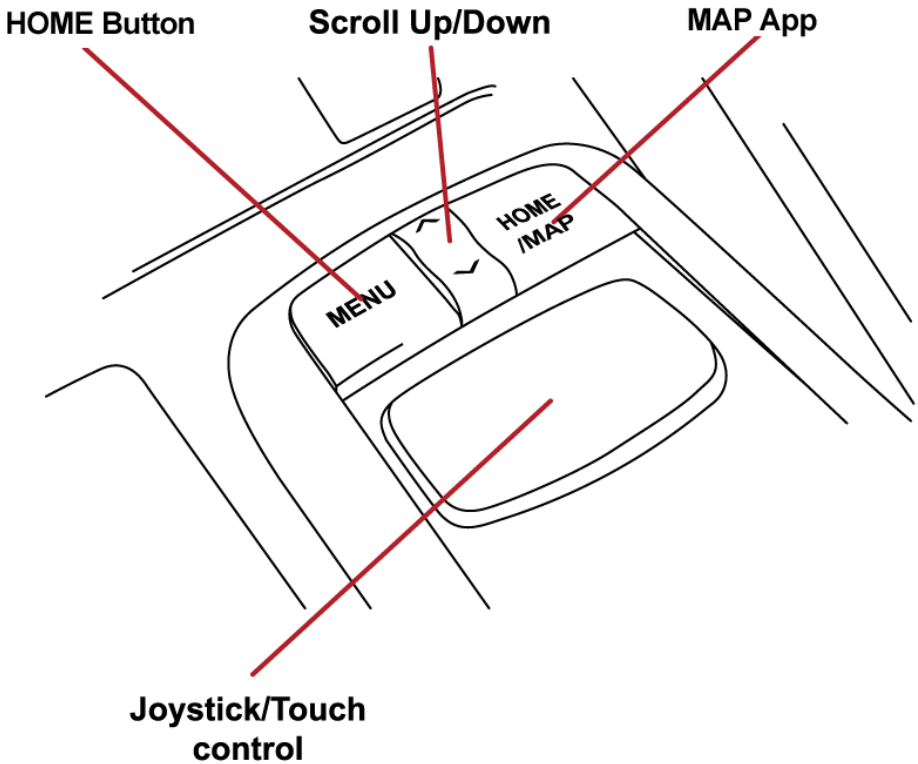
To adjust, press and hold MENU button on joystick control. Factory Display will switch from VLINE interface into factory USB interface to adjust Audio settings.

Press and hold MENU button again to switch back into VLine interface mode.

## Joystick control button operation while in VLINE Mode

MAP button is mapped to the map of your choice (select in VLine settings).

Pressing MENU will bring you back to VLine home screen.



## **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).

Please check our FAQ at [www.gromaudio.com/support/faq.html](http://www.gromaudio.com/support/faq.html), videos and installs at [www.gromaudio.com/installs/index.html](http://www.gromaudio.com/installs/index.html).

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- 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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