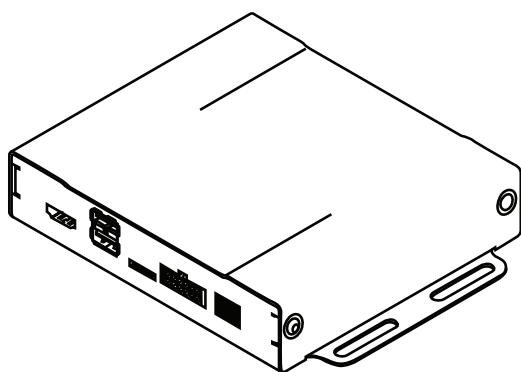


VLine



INSTALLATION MANUAL

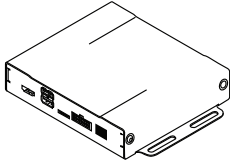
HON2M

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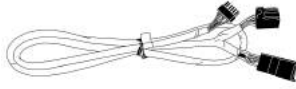
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GROM-VLINE VL2 SYSTEM

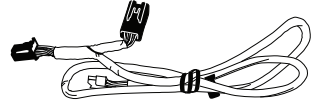
PACKAGE CONTENTS



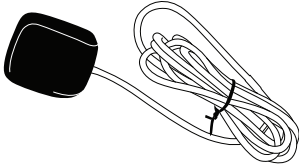
VLine module



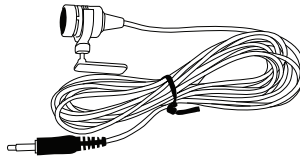
VHA8A
Video Cable



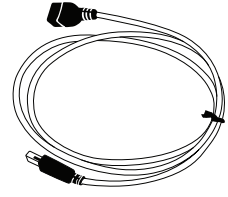
MCFHADD Interface
Cable + Red P-Tap



GPS Antenna



Microphone



USB Extension 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 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 the VLine, you agree:

- to operate the 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 times while driving;
- do not attempt to play video (such as YouTube) on a display while the vehicle is in motion;
- do not use the VLine without running the engine for an extended time, as it can drain the battery.

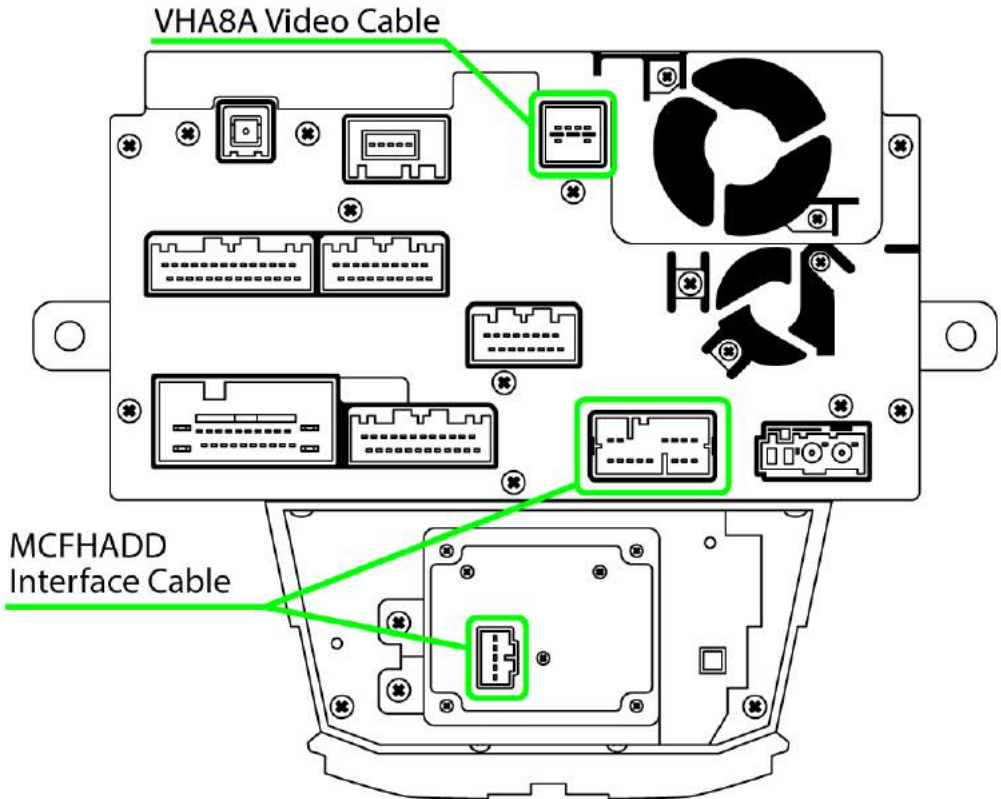
Do not use the VLine in a manner that would distract the driver or that may otherwise cause injury or death to vehicle occupants or bystanders.

IT IS ILLEGAL IN MOST STATES OF THE UNITED STATES. IT 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 THE VLINE.

Connect the supplied interface cable MCFHAHDD and the video cable VHA8A to the back of the stereo

Locate the GRAY video port at the back of the stereo, as shown below. Disconnect the cable that was previously connected and connect VHA8A. Reconnect disconnected cable back to the VHA8A cable.

Locate 14-pin WHITE and 5-pin GREEN connectors at the back of the stereo. Disconnect what was previously connected, and connect the MCFHAHDD cable to both the corresponding ports at the back of the stereo. Reconnect the previously disconnected factory cables back to the MCFHAHDD cable.



Connect the reverse wire on the MCFHAHDD interface to the main stereo harness

Use the supplied red posi-tap connector and refer to the **separate manual** to locate the reverse wire on the main stereo harness and tap the reverse wire on the VLine MCFHAHDD interface cable to it.

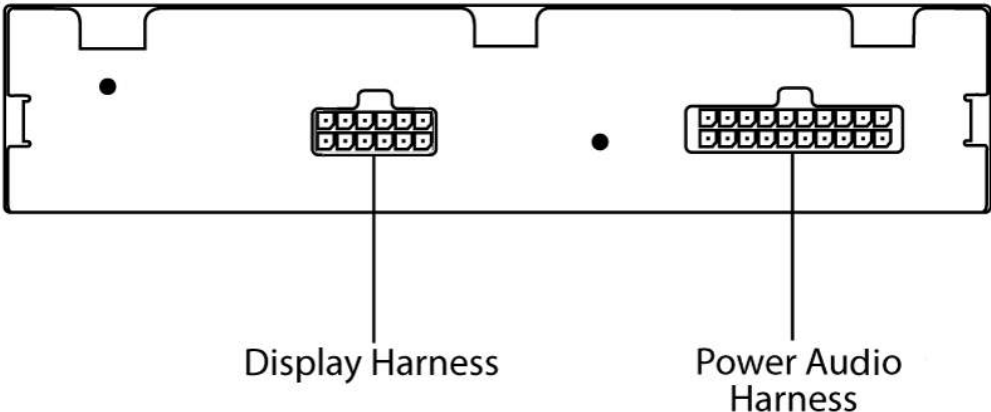
IMPORTANT: Ensure you properly connect and tap the reverse wire according to the manual. Test the wire connection with the multimeter. Refer to the video that explains how to test the reverse wire with the multimeter:

https://bit.ly/reverse_wire_hon3 **Note:** the video is for different stereo and explanation purposes only. Refer to the **supplied manual** for the exact location of the reverse wire in your vehicle.

WARNING: If you do not connect the reverse wire properly, or do not connect it at all - the system will not work, or the stereo might misbehave.

Connect the VHA8A video cable and the MCFHAHDD interface cable to the VLine

Route the unused ends of the VHA8A video cable and the MCFHAHDD interface cable to the VLine module and connect them to the correctly labeled ports.

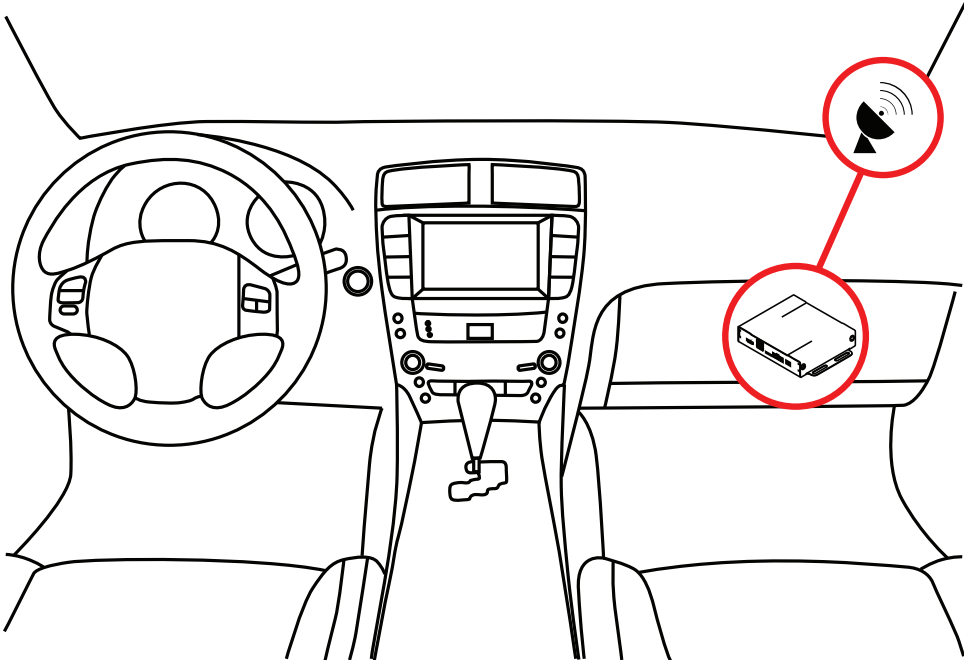
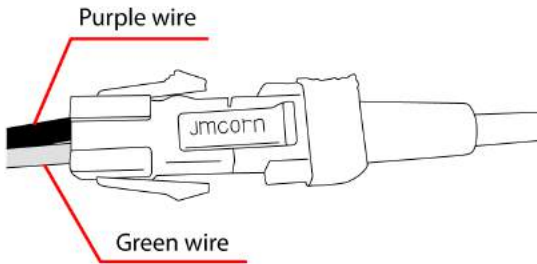


Routing the GPS Antenna

The GPS Antenna module is 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. Do not place the antenna into the glove box, or next to the metal parts. It can affect the reception.

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

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



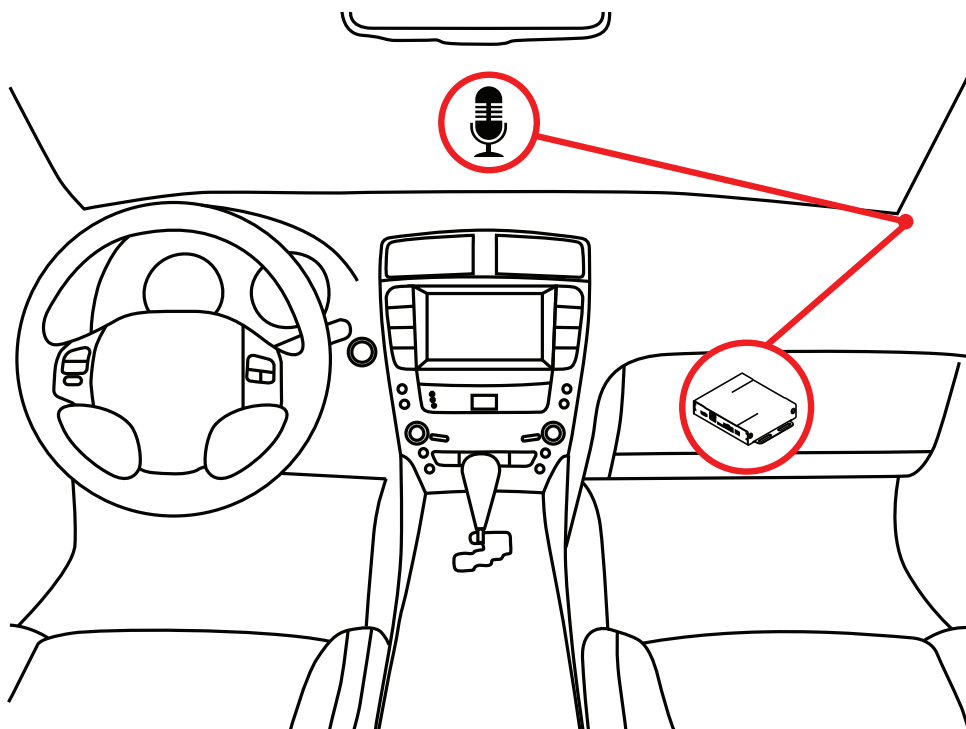
Routing the microphone

Route the microphone to a location where it will be able to pick up the voice clearly. We recommend mounting the microphone near the rearview mirror but not directly on the windshield glass. Avoid sticking it to a hard surface, as it will pick up more noise.

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

Adjusting the 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. Hit AUTO on the screen to automatically adjust the microphone gain.
 4. Follow the instructions on the screen and adjust the microphone gain.
- We recommend setting the microphone gain to 30-45 for the factory mic.



Testing the VLine operation

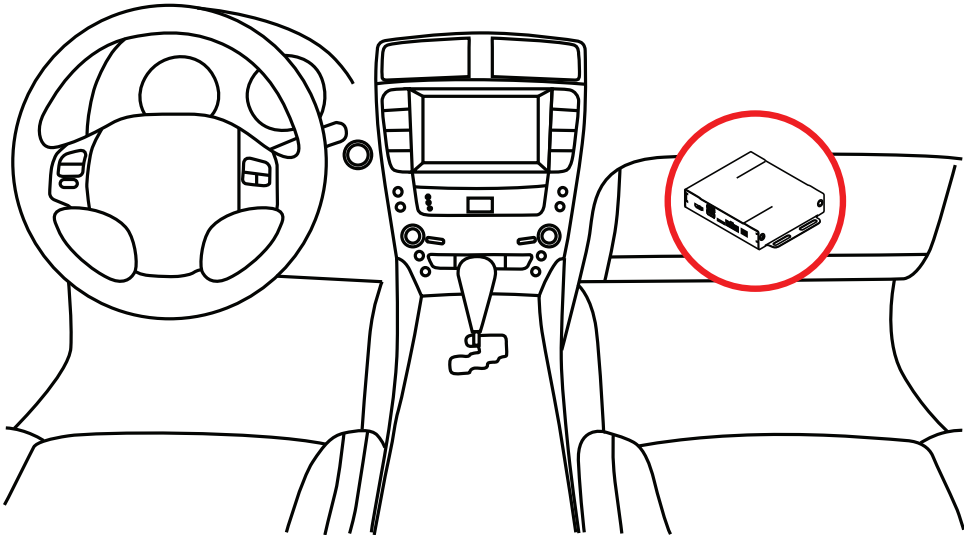
Test VLine operation before fully mounting the LCD display, stereo and dashboard. **WARNING:** Make sure to reconnect all unplugged connectors back to the vehicle before cycling the ignition.

Cycle the ignition and enter the AUX mode of your stereo. You might have to press the AUX button a few times until the stereo will get into the VLine mode.

If VLine appears on the screen, and all factory functions such as climate controls, reverse camera, and AM/FM radio, are working, you can mount the display, stereo and dashboard.

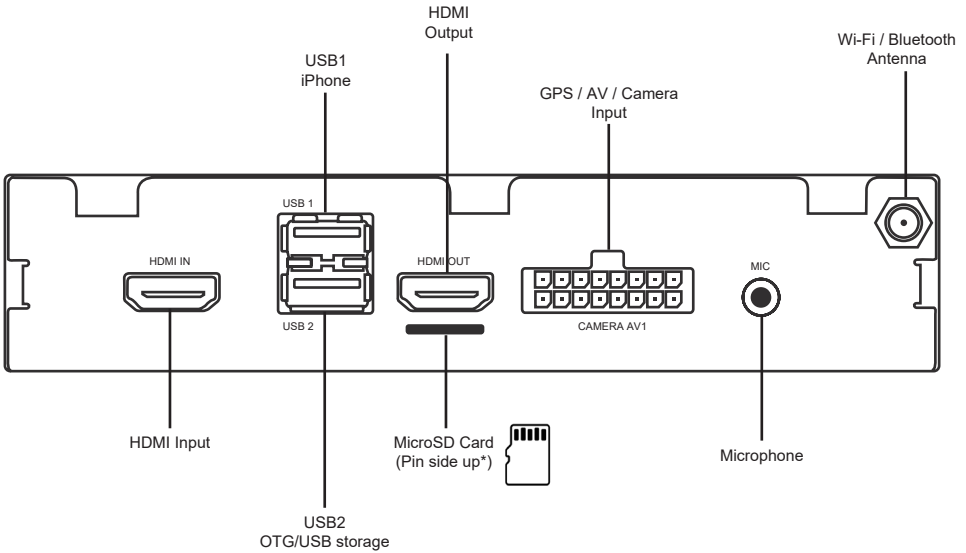
Mounting the VLine Module

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® / Wi-Fi® reception.



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 the VLine Ports



USB1

iPhone connection

Any other USB device (Keyboard / Mouse)

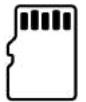
USB2

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.



Pin Side Up

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.

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

2.2 Functions

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 AUX button to access the VLine mode of the stereo to enter into VLINE interface mode. You may need to press AUX few times.

Continue on the next page --->



CANCEL - go to the previous screen
MAP - activate Google or Waze Maps (per your selection at the setup)
INFO or **MENU** - back to main VLine screen

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.

Using External Keyboard or Mouse

You can attach external USB mouse or keyboard to any USB ports of VLine, for easier operation, when you need to type-in password, or apply firmware update.

Adjusting Audio Bass, Treble, Balance/Fade for VLINE Mode - using Factory UI

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 external CDC interface. While in the factory CDC interface, you can adjust audio settings. Press FM and then DISC on the stereo to switch back into the VLine VL2 interface mode.

Adjusting Display Brightness / Contrast

Sometimes the VLine or CarPlay / Android Auto image might appear washed out. This is because the factory display is not optimized for VLine or CarPlay / Android Auto colors. Adjust the display brightness and contrast to your liking by using the DISP button, if available, or going to the Factory UI (see page 12) and adjusting the display settings for the VLine mode of your stereo.

Troubleshooting and Tips

Q. *I can see the VLine user interface on the stereo, but the image is low resolution/pixelated.*

A. Adjust the display brightness / contrast using the DISP button, if available, or the Factory UI button, as described above.

Q. *The VLine cannot be recognized by the stereo or is misbehaving.*

A. Ensure you properly connected the REV (reverse) wire on the MCFHADD power interface cable to the reverse wire in the vehicle. Test the wire before mounting the stereo back. See p. 6 of this manual for the details.

Q. *The VLine is misbehaving.*

A. Check for firmware update and apply the latest firmware, if available. Connect VLine to Wi-Fi (see User Manual). Go to Settings --> About Device --> Check for Updates and apply all available updates.

Q. *Wireless CarPlay® or Android Auto® cannot connect, or the connection is unstable.*

A. Ensure the Bluetooth antenna on the VLine is not damaged, and no metal parts are blocking the Bluetooth and Wi-Fi signal. See pages 9 and 10 for the reference. Mount the VLine unit in the glove compartment, as we always recommend, for later accessibility and safety of the Bluetooth antenna.

Q. *The VLine system and the factory stereo do not perform correctly.*

A. Reset the factory stereo. See your specific stereo manual for the steps to reset.

Restart or reset the VLine. While on the Vline user interface main screen, go to "Support" app and follow the steps for the VLine reset or reboot.

SUPPORT: www.gromaudio.com/support.html

FAQ: www.gromaudio.com/support/faq.html

Videos and installs: www.gromaudio.com/installs/index.html.

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Eighteen (18) Month Limited Warranty

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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 THE RMA NUMBER THE RETURNS ARE NOT ACCEPTED!

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- 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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B. EXCLUSION OF REMEDIES. TO THE MAXIMUM EXTENT PERMITTED UNDER APPLICABLE LAW, IN NO EVENT WILL GROM AUDIO OR ITS EMPLOYEES, DIRECTORS, OFFICERS AND OTHER REPRESENTATIVES BE LIABLE TO YOU OR ANYONE ELSE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL DAMAGES OF ANY KIND ARISING OUT OF OR IN ANY WAY RELATING TO THIS AGREEMENT, INCLUDING YOUR USE OF OR INABILITY TO USE THE VLINE OR ANY CLAIM MADE BY A THIRD PARTY (INCLUDING, WITHOUT LIMITATION, LOSS OF REVENUE, PROFITS, DATA OR GOODWILL OR OTHER COMMERCIAL OR ECONOMIC LOSS) REGARDLESS OF THE CAUSE OF ACTION ON WHICH THE CLAIM IS BASED, EVEN IF GROM AUDIO HAS OR YOU HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR CLAIM.

C. GOVERNING LAW. THIS AGREEMENT and all Purchases hereunder shall be governed by, and construed under the laws of the State of California, without regard to conflicts of law rules. You agree that the Courts of California shall have exclusive jurisdiction over the Parties, for all disputes.

D. FORCE MAJEURE. GROM shall not be liable for any delay or failure in performance caused by or resulting from acts of God, fire, flood, storms, earthquakes, tornado, other acts of nature, any accidents, riots, wars, government intervention, embargoes, strikes, labor difficulties, equipment failures, or any other causes beyond the control of GROM AUDIO. Quantities are subject to availability.

E. ENTIRE AGREEMENT. These terms and conditions constitute the entire and exclusive agreement between you, the End-User and GROM AUDIO, concerning the Products, and your purchase hereunder, and supersede all statements or other agreements, whether oral or written, between you and GROM AUDIO. No change in this Agreement shall be effective, unless agreed to in writing by both, you, the end-user and GROM AUDIO.

GROM AUDIO COMPATIBILITY DISCLAIMER

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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