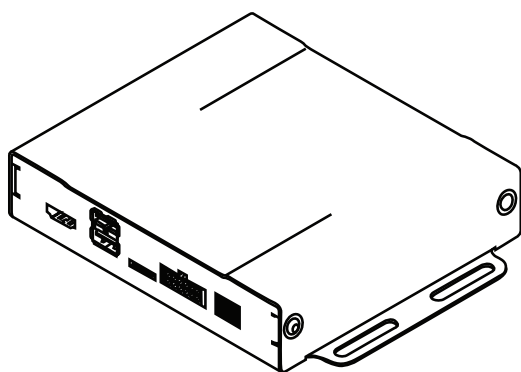


VLine



INSTALL MANUAL

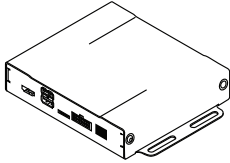
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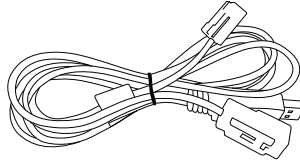
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GROM-VLINE SYSTEM

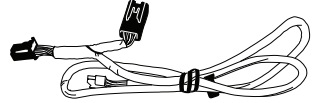
PACKAGE CONTENTS



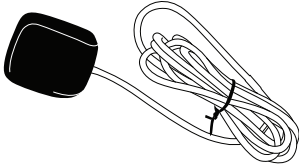
VLine module



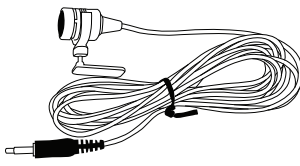
GVMF Video Cable



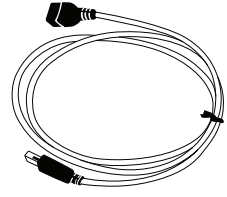
MCFTOY Power Cable
+ Red P-Tap



GPS Antenna



Microphone



USB Extension cable

CHAPTER 1 — INSTALLATION

1.1 Before the 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 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.

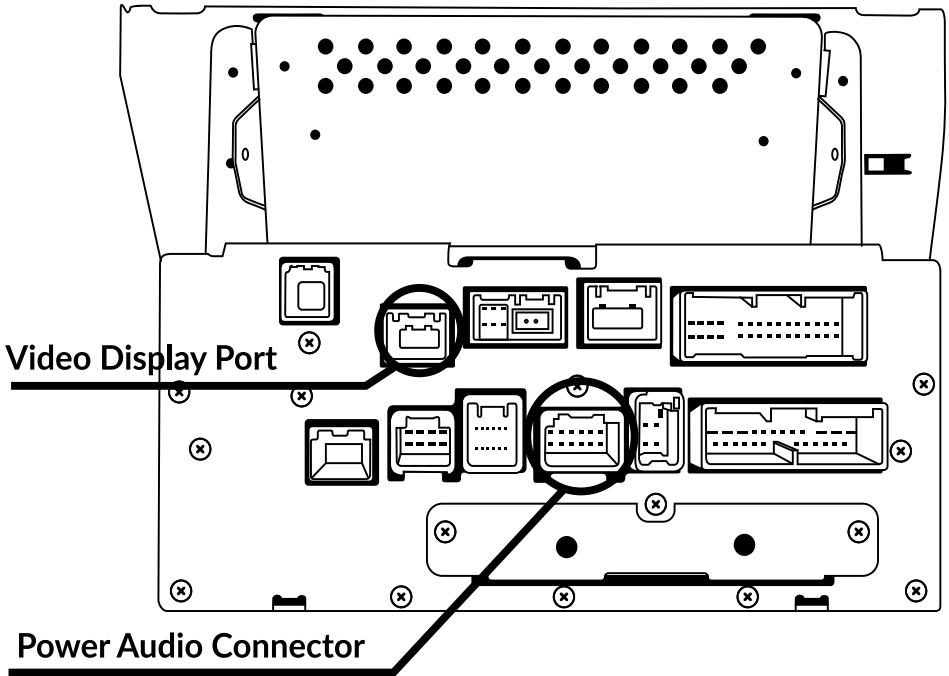
IT IS ILLEGAL IN MOST STATES OF THE UNITED STATES AND MAY BE ILLEGAL IN OTHER JURISDICTIONS FOR ANY TELEVISION OR OTHER VIDEO DISPLAY, STREAM, TRANSMISSION OR BROADCAST TO BE VISIBLE TO THE DRIVER WHILE THE VEHICLE IS IN MOTION. YOU AGREE NOT TO USE ANY VISUAL COMPONENT OF VLine WHILE IN CONTROL OF A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

Locate the BLUE display port on the rear of the car stereo.

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

If a cable is plugged in (typically with the blue connector), disconnect it from the back of the stereo. Then, plug in the supplied Y-shaped GVMF cable and reconnect the disconnected cable to the female plug of the supplied GVMF video cable.



Warning: Do not pinch or hard bend the GVMF video cable, as it will affect the video signal. Make sure there are no hard bends near the GVMF cable connector to the VLine, and allow enough space around it.

Connect the VLine power interface cable MCFTOY to the factory stereo, connect the REVERSE wire with the P-Tap

Locate the 12-pin connector at the back of the stereo, as shown in one illustration on page 6. Unplug what was previously connected, if anything. Plug in the supplied power interface cable, MCFTOY, into a 12-pin slot. Replug the factory cable back to the other end of the MCFTOY cable.

Connect the factory reverse wire

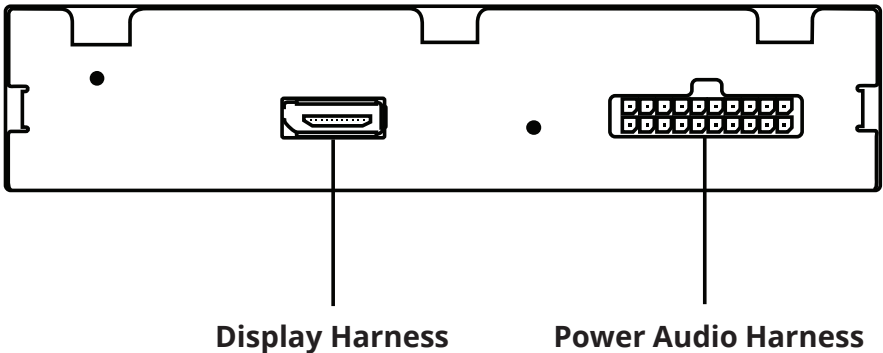
Use the supplied red Posi-Tap (P-Tap) connector to tap the purple-colored REV wire of the MCFTOY cable to the factory reverse wire. Refer to the reverse wire addendum provided with your install manual.

Disconnect the factory USB interface

If the external factory USB interface is present, you must locate and disconnect it from the car stereo system. You will lose the factory USB interface to use the VLine in your vehicle. You can use the VLine USB for the same function.

Connecting to the VLine

Route the unused ends of the video and power interface cables to the VLine module and connect them to the correctly labeled ports.

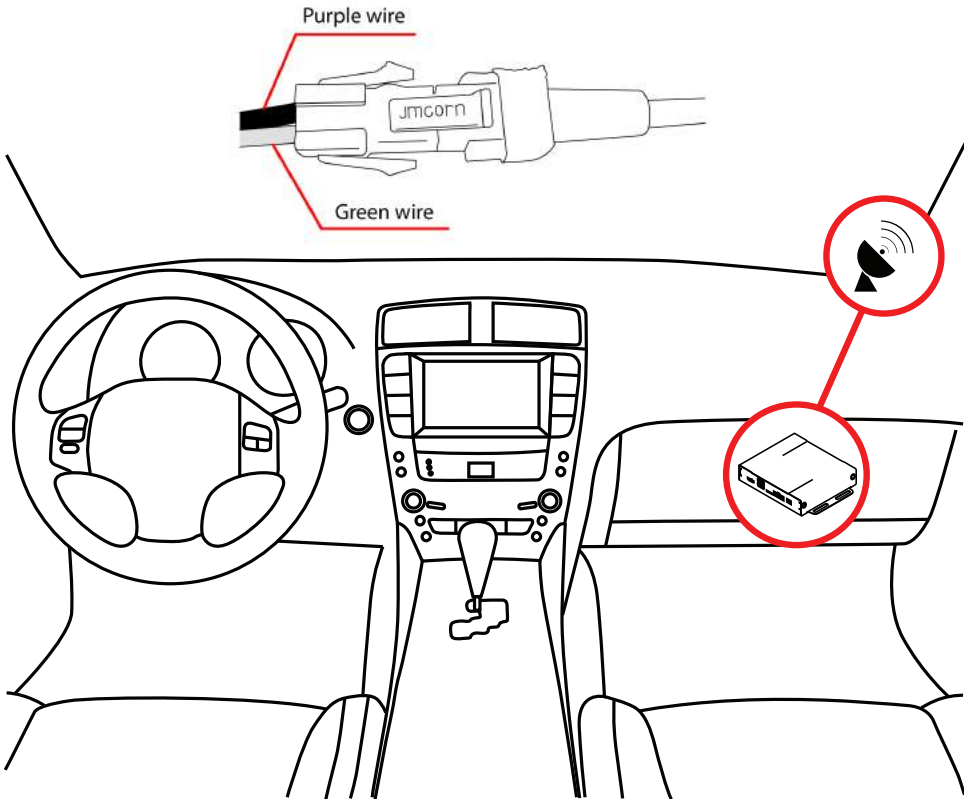


Routing the GPS antenna

The GPS Antenna module is magnetic and supplied with double-sided tape. It can be mounted to the top of the dashboard or outside of the vehicle, whichever you prefer. Route the antenna to the desired location. We recommend mounting it inside the vehicle on the passenger side of the dashboard, as shown on the next page.

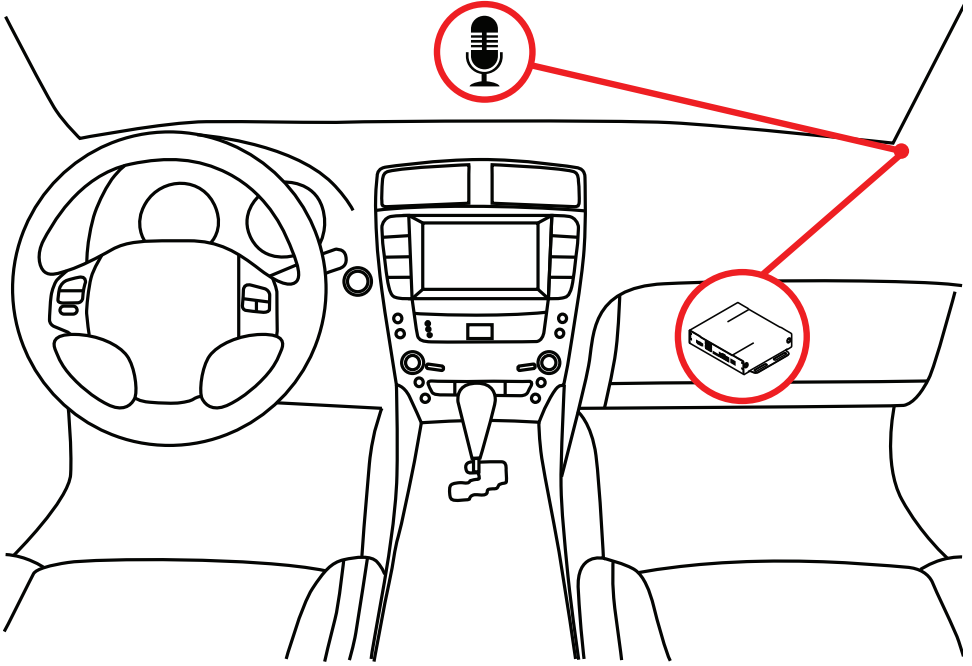
It can be mounted to the top of the dashboard or outside of the vehicle, whichever you prefer. Route the antenna to the desired location. We recommend mounting it inside the vehicle on the passenger side of the dashboard, as shown on the next page.

Plug the GPS antenna into the Camera AV port of the VLine unit. If you need to use the VAUX RCA cable, carefully disconnect the GPS antenna from the small moxex extension, and plug the VAUX cable instead, per the instructions on the next page. Please do not break the GPS antenna when unplugging it from the moxex extension.



Routing the microphone

Route the microphone to a location where it can pick up the voice. 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. Ensure you complete this step, as you will use the microphone for CarPlay®, Android Auto® voice assistance, and CarPlay® phone calls.



Adjusting the microphone gain for CarPlay® or AAuto®

It is essential to calibrate the microphone gain for the ultimate microphone performance for phone calls (CarPlay) and voice control.

1. Go to the VLine home screen, and tap on three horizontal 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 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 45.

Testing the VLine operation

WARNING: Ensure to reconnect all unplugged connectors to the vehicle before cycling the ignition. Cycle the ignition and press the MODE button to enter the USB mode of the stereo which is VLine mode. You can also select the USB source from the source tab. Disconnect the factory USB module, if present.

Ensure the VLine appears on the screen and all factory functions, such as climate controls, reverse camera, and AM/FM stereo, are working. You can mount the dashboard back.

Installation Troubleshooting

Test VLine operation before mounting the dashboard back.

1. There is no VLine on the display, or the display is black.

Check the GVMF cable to ensure you connected it at the back of the LCD display, and not at the back of the stereo. Ensure you reconnected the originally connected display cable back to the VLine GVMF female end.

Check the REVERSE wire on the MCFTOY cable and ensure it is properly connected.

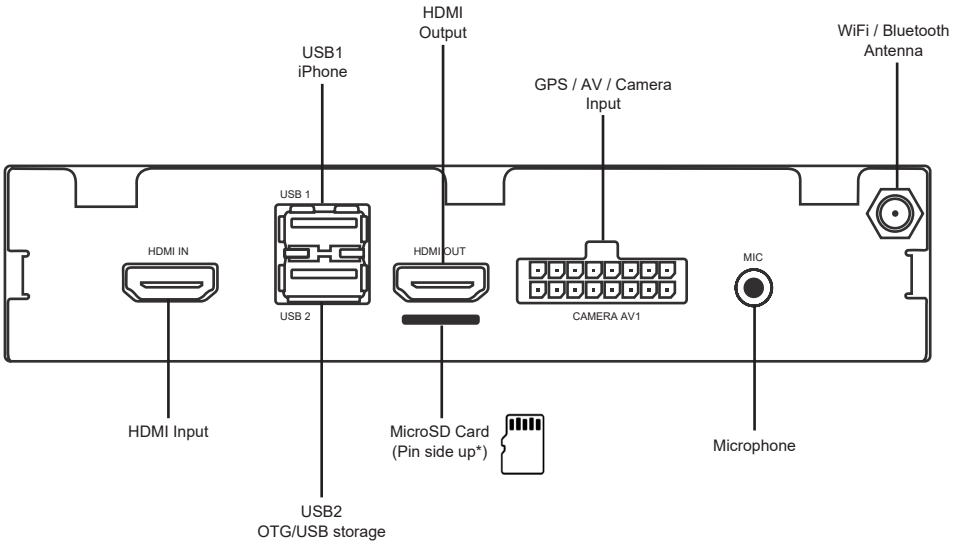
2. The display is "flashing or flickering.

Make sure there are no hard bends in the GVMF video cable, and it is installed away from the metal parts in the vehicle. Try to re-route the GVMF 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 the 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.

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.



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, cycle the ignition for the stereo to discover the VLine and allow the VLine to self-configure.

To INITIALIZE:

1. Put the ignition switch to “the ACC” or “ON” position
2. Wait up to 5 Seconds
3. Put the ignition switch to “the OFF” position
4. Wait one minute
5. Turn the gnition switch back to “the ACC” or “ON” Position
6. Press the MODE button on the steering wheel until you arein the VLine mode (external USB mode) . You can also select the USB source from the source tab.

2.2 Functions

The GROM VLINE emulates the USB mode of the stereo. Factory USB mode will be disabled and no longer accessible. You can use the VLine USB for the same functions.

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

Selecting the VLINE mode:

Press the MODE button on the steering wheel until you arein the VLine mode (external USB mode) . You can also select the USB source from the source tab.

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 USB interface. While in the factory USB interface, you can adjust audio settings. Press FM and then DISC/AUX to enter the USB mode on the stereo screen to switch back into the VLine 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 above) and adjusting the display settings for the VLine mode of your stereo.

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.

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 www.gromaudio.com/support.html and fill out the form.

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

Please check our FAQ at www.gromaudio.com/support/faq.html, videos and installs at www.gromaudio.com/installs/index.html.

Troubleshooting

CarPlay/Android Auto does not connect wireless, or VLine misbehaves.	Ensure you have the latest updates on the VLine by connecting the VLine to the 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.
I cannot enter the USB iPod mode on my stereo screen to access VLine.	Ensure you located and physically disconnected the factory USB mode from the car stereo.
Android Auto phone calls do not work.	VLine does not support phone calls via Android Auto. Only CarPlay iPhone phone calls are available. To get the phone calls, you will need to connect your phone to car stereo Bluetooth for phone calls.
The stereo screen is black or flickering in the VLine mode or factory mode.	Ensure you connected the GVMF video cable to the back of the display and there are no hard bends or pinches to the video cable. See p.5.
The CarPlay phone calls do not sound good, or the other person can't hear you at all.	Double-check the microphone connection to the VLine, Configure the microphone gain. See p.8.
CarPlay/Android Auto does not connect wireless or has troubles staying connected.	Ensure the Bluetooth antenna is not broken, and there are no metal parts that can block the Bluetooth and Wi-Fi signals. Secure the VLine module in the glove compartment for better accessibility. See p.11.
The screen in VLine mode is low resolution and the picture is pixelated.	Use the Factory UI icon or DISP button on the stereo to get back to the factory UI and adjust screen's brightness and contrast. See p. 12
The VLine does not sound good.	Use the Factory UI icon on the stereo to get back to the factory UI and adjust stereo sound settings such as bass and treble for the VLine stereo mode. See p. 12

SUPPORT

For technical support please visit us at www.gromaudio.com/support.html and fill out the form.

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

Warranty

18 (Eighteen) Month Limited Warranty

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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:

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- 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 further agree to use the GROM Product in:

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C. GOVERNING LAW. THIS AGREEMENT and all Purchases hereunder shall be governed by, and construed under the laws of the State of Texas,

without regard to conflicts of law rules. You agree that the Courts of Texas 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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