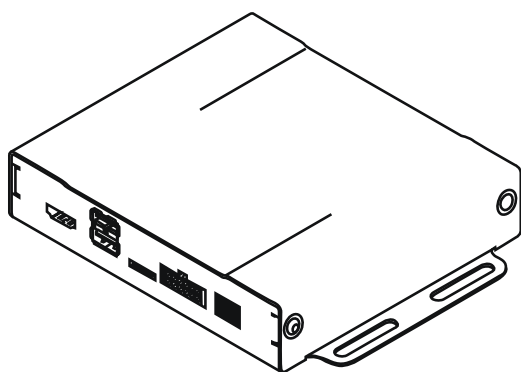


VLine



INSTALLATION MANUAL

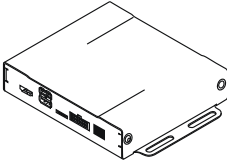
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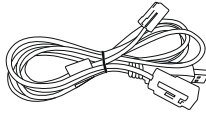
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GROM-VLINE SYSTEM

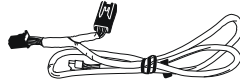
PACKAGE CONTENTS



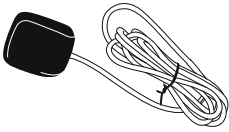
VLine module



GVMF
Display Harness



MCFTEN
Power Harness



GPS Antenna (VL2 only)



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 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.

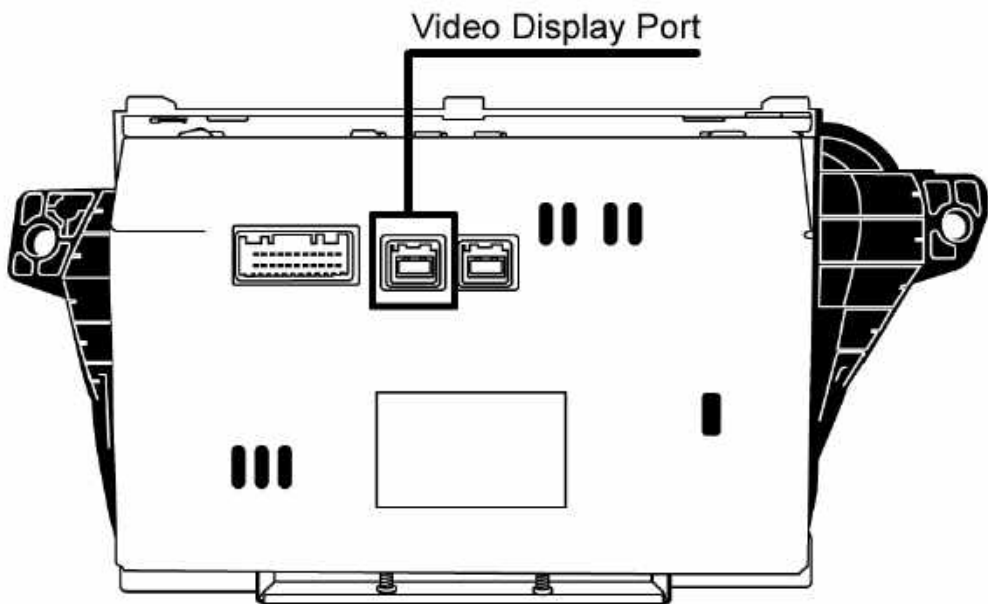
IT IS ILLEGAL IN MOST STATES OF THE UNITED STATES AND MAY BE ILLEGAL IN OTHER JURISDICTIONS FOR ANY TELEVISION OR OTHER VIDEO DISPLAY, STREAM, TRANSMISSION OR BROADCAST TO BE VISIBLE TO THE DRIVER WHILE THE VEHICLE IS IN MOTION. YOU AGREE NOT TO USE ANY VISUAL COMPONENT OF VLine WHILE IN CONTROL OF A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

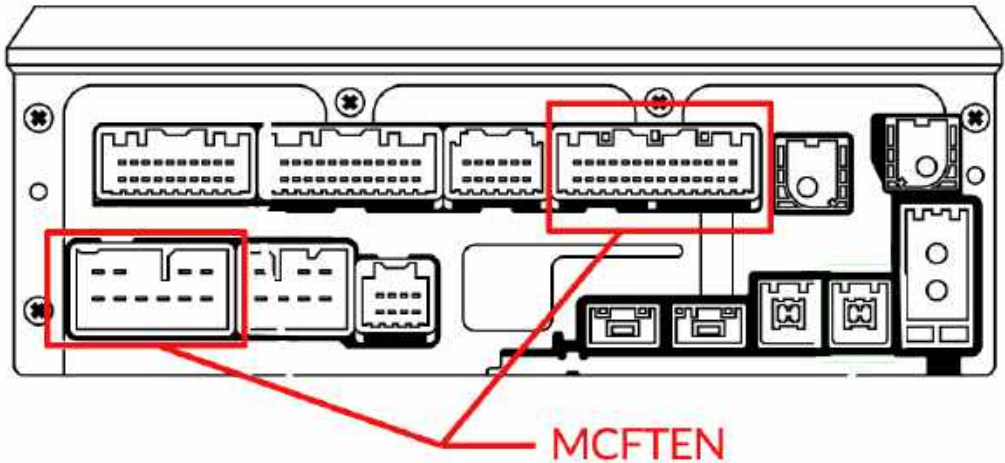


Ensure to connect the GVMF video cable to the back of the factory display, and not to the back of the stereo. If you will connect the GVMF cable to the back of the stereo, the VLine will not show up on the screen!

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.

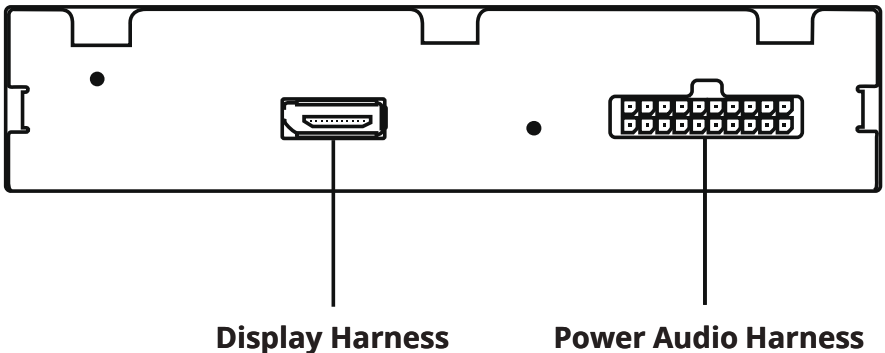
Connect VLine Interface cable to Factory Head unit

Locate the 28-pin and 10-pin connectors at the back of the stereo and unplug. Plug the supplied Interface cable (MCFTEN). Reconnect back what was disconnected from the rear of the stereo into the female plugs of the supplied power interface cable MCFTEN.



Connecting to the VLine

Route the unused ends of MCFTEN and GVMF cables to the VLine module and connect them to the correctly labeled ports. Ensure to avoid hard bends of the GVMF cable next to the connector.



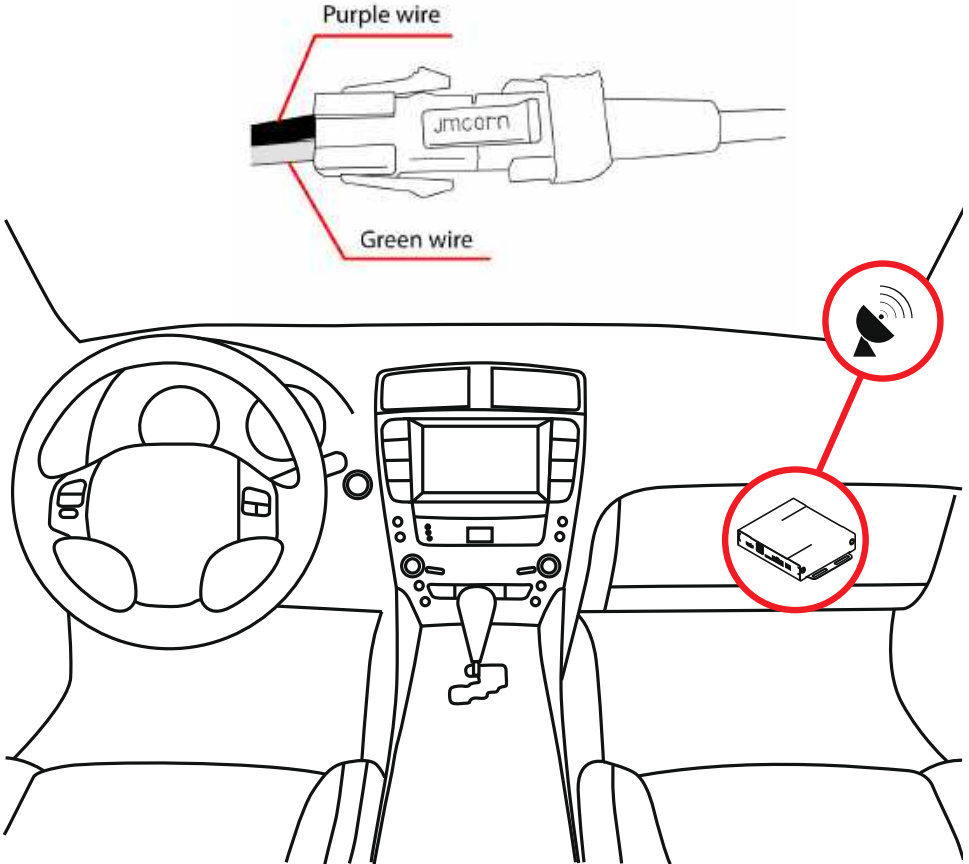
Routing the GPS Antenna

The GPS Antenna module is magnetic and supplied with double-sided tape. You can mount it to the top of the dashboard, so there are no metal parts that obstruct the signal.

You can mount it to the top of the dashboard, so there are no metal parts that obstruct the signal. We recommend mounting it inside the vehicle on the passenger side of the dashboard, as shown below. **Do not leave it inside the glove box.** Make sure the GPS antenna faces up, and there are no obstructions in front of it.

Plug the GPS antenna into the VLine VL2 Camera AV1 port.

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. Do not break GPS antenna when unplugging it from molex extension.



Using factory microphone

VLine will use the factory microphone for its operation. Connect 3.5mm male connector from Power Interface Cable (MFCTEN) to the microphone port of the VLine (see p. 10 for reference).

There are no any additional steps needed to connect or operate the 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 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. Adjust the microphone gain to 45. We recommend testing the microphone with the different gain parameters and set the best for your liking. However, the gain set to 45 is what usually works the best.

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 MEDIA button and enter AUX mode to get to VLine mode.

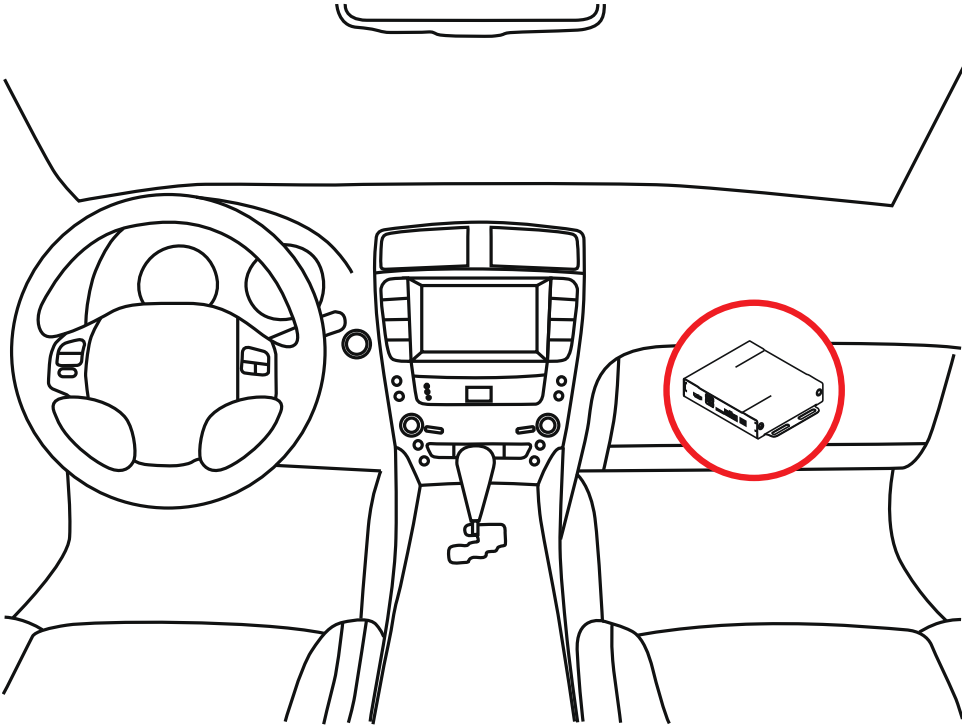
If VLine appears on the screen, and all factory functions such as climate controls, reverse camera, AF/FM stereo, are working, you can mount the dashboard back.

Installation Troubleshooting

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. Make sure you reconnected the originally connected display cable back to the VLine GVMF female end.
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.

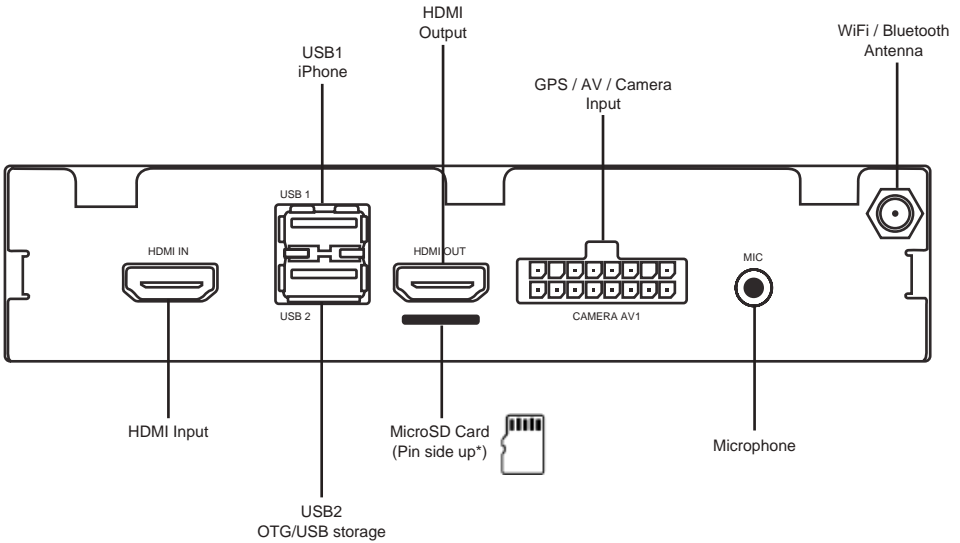
Mounting the VLine Module

Mount 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.



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 / Wifi reception. We strongly recommend mounting the unit inside the glove compartment for safety and accessibility.

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

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, 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. Access the AUX source of your stereo to get to the VLine user interface mode.

2.2 Functions

The GROM VLINE emulates the factory AUX mode of the stereo.

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

Selecting the VLINE mode:

Enter the AUX mode of the stereo to get to the VLine mode.

Using factory joystick to navigate VLine.

You will use the factory joystick to navigate the VLine or CarPlay / Android Auto icons.

2.3 Other Stereo Functions

2.3.1 Factory stereo sound source and VLine display.

If you want to use the original stereo sound source (such as FM radio) while seeing the VLine UI (such as maps) at the same time, while on the Factory UI (such as in FM radio), press and hold the "MENU" button for 2-3 seconds. It will bring the VLine to the screen while the stereo sound source is FM. If you want to switch the stereo sound source back to VLine, enter VLine mode (AUX) on the stereo by pressing MEDIA button on the stereo or SOURCE button on the steering wheel controls.

2.3.2 Voice commands - Siri®, Google Assistant® or VLine's own

Press and hold TRACK UP on the Steering Wheel Controls for 2-3 seconds. It will activate the voice assistant of your choice.

2.3.3 Android Auto phone calls

VLine does not support the phone calls on Android Auto. Use factory phone system to connect to the phone calls. Pair and connect your phone's Bluetooth to VLine for Audio/Media, and to factory Bluetooth for the phone calls. You can accept, reject or initiate phone calls on Android Auto screen.

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

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 AUX interface. While in the factory AUX interface, you can adjust audio settings.

Press FM and then MEDIA --> AUX on the stereo to switch back into the VLine VL2 interface mode.

Troubleshooting and Tips

Q. The VLine mode or OEM stereo mode is flickering/blinking.

A. Ensure there are no any hard bends or cuts/pinches of the GVMF video cable. See p.5 of this manual. Ensure you connected the GVMF cable at the back of the display, and not at the back of the stereo.

Q. VLine is misbehaving.

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

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.

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.

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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.

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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.

You further agree to use the GROM Product in:

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

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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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