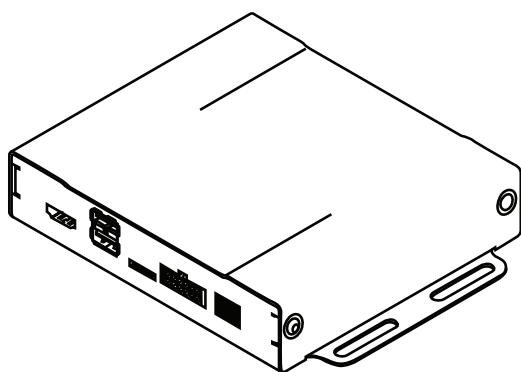


# VLine



## GROM-VLINE SYSTEM

**LEX3**

[www.gromaudio.com](http://www.gromaudio.com)  
[www.gromaudio.com/support.html](http://www.gromaudio.com/support.html)

 **GROM**  
AUDIO

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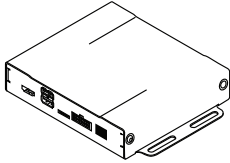
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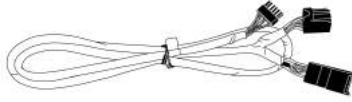
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# GROM-V1 SYSTEM

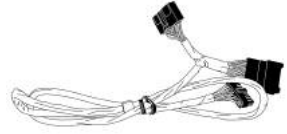
## PACKAGE CONTENTS



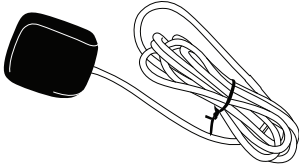
VLine module



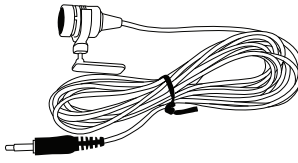
VTOYA3



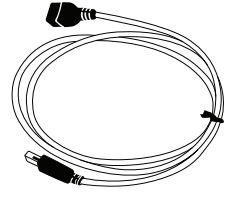
MSFTOY1



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 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.

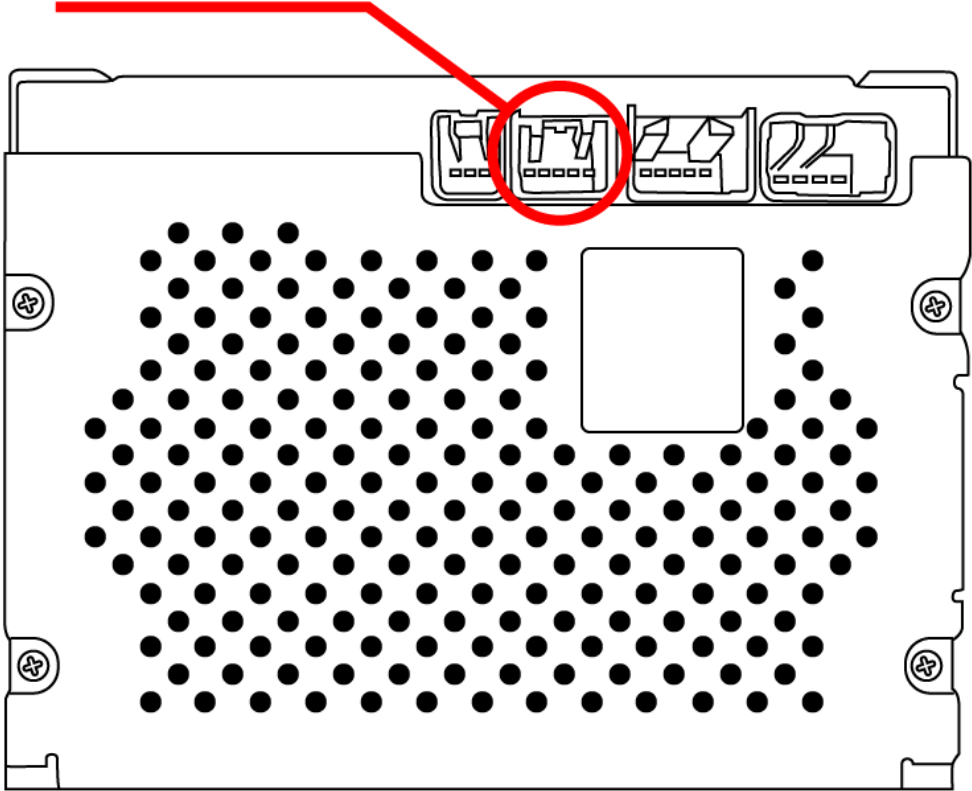
IT IS ILLEGAL IN MOST STATES OF THE UNITED STATES AND MAY BE ILLEGAL IN OTHER JURISDICTIONS FOR ANY TELEVISION OR OTHER VIDEO DISPLAY, STREAM, TRANSMISSION OR BROADCAST TO BE VISIBLE TO THE DRIVER WHILE THE VEHICLE IS IN MOTION. YOU AGREE NOT TO USE ANY VISUAL COMPONENT OF VLine WHILE IN CONTROL OF A 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 the 10-pin Main Display port on the rear of the Multi Display ECU.

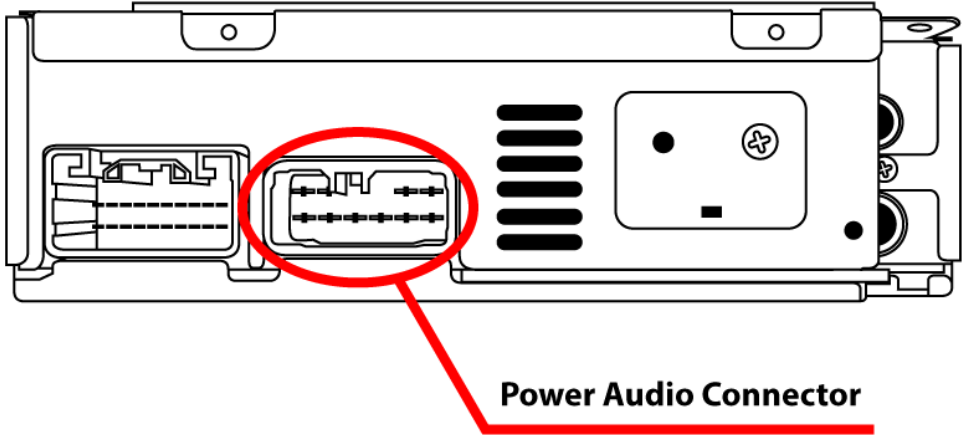
Disconnect the factory Display Cable from the rear of the Multi Display ECU. Then plug in the supplied Y cable and reconnect the disconnected cable into the female plug of the Supplied Display Cable.

### Video Display Port



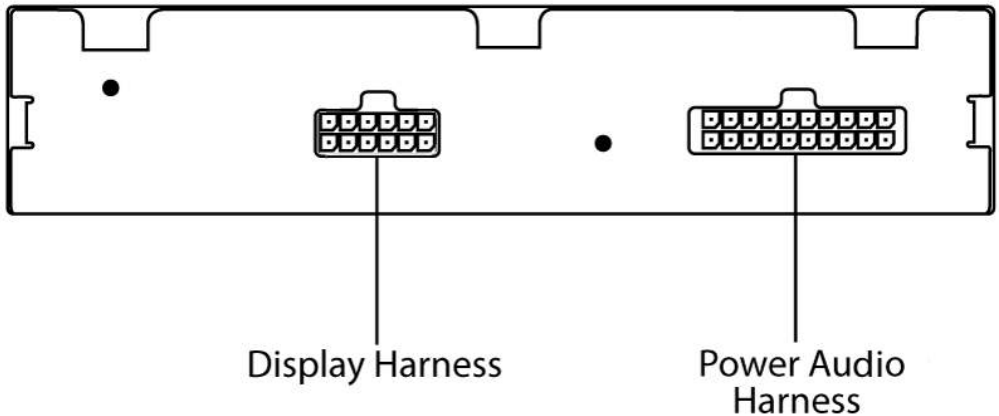
## Connect VLine Interface cable to Factory Head unit

Located 12-pin connector and unplug. Plug in supplied Power Audio Wiring Harness Interface cable (MCFTOY1). 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.

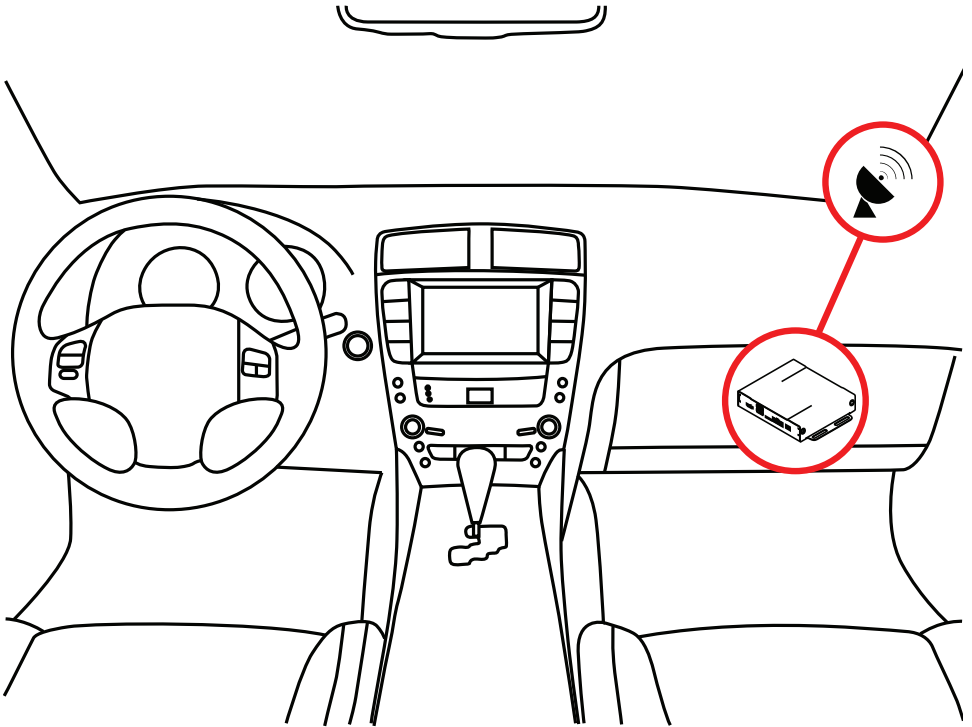


## Routing the GPS Antenna

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



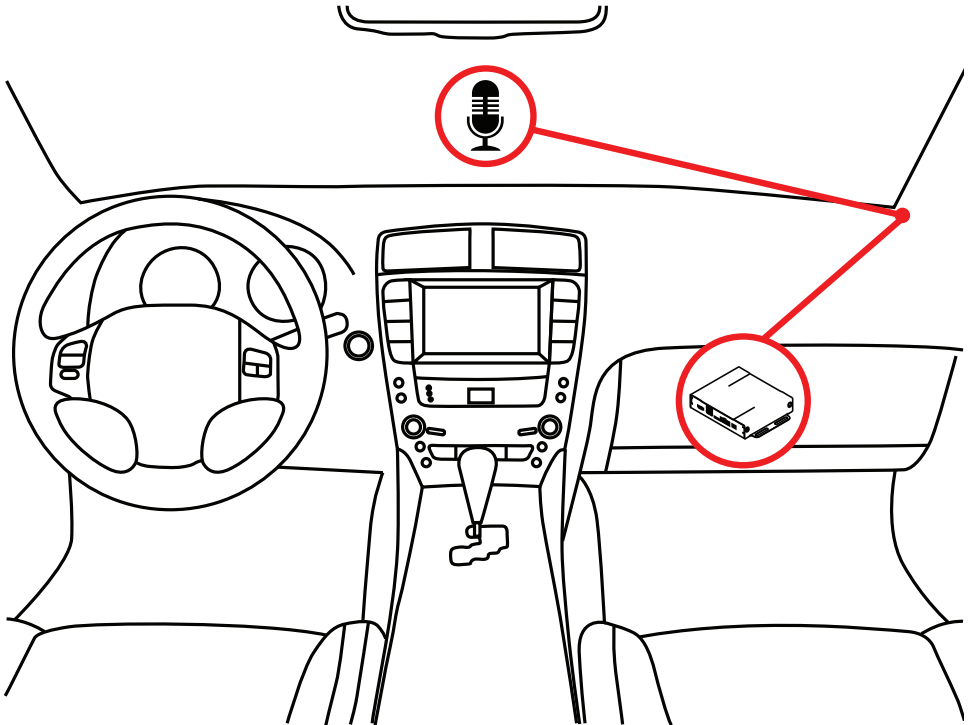


## Routing the Microphone

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

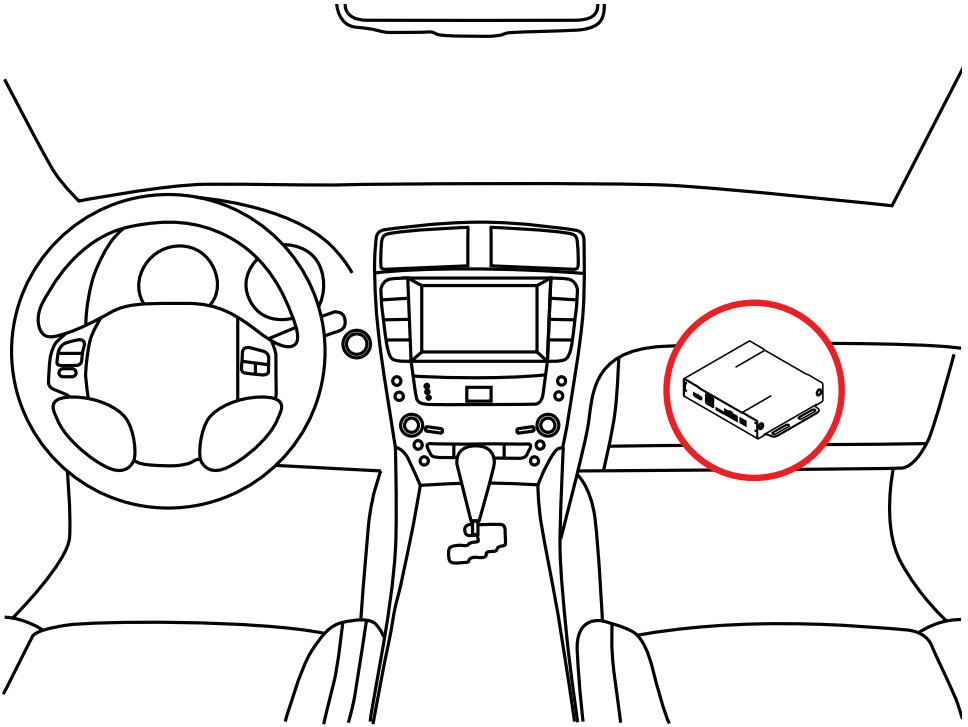
We recommend to mount MIC nearby the rear view mirror but not directly on windshield glass. Avoid sticking to the hard surface as it will pick up more noise.

Plug the microphone into the MIC port of the VLine module



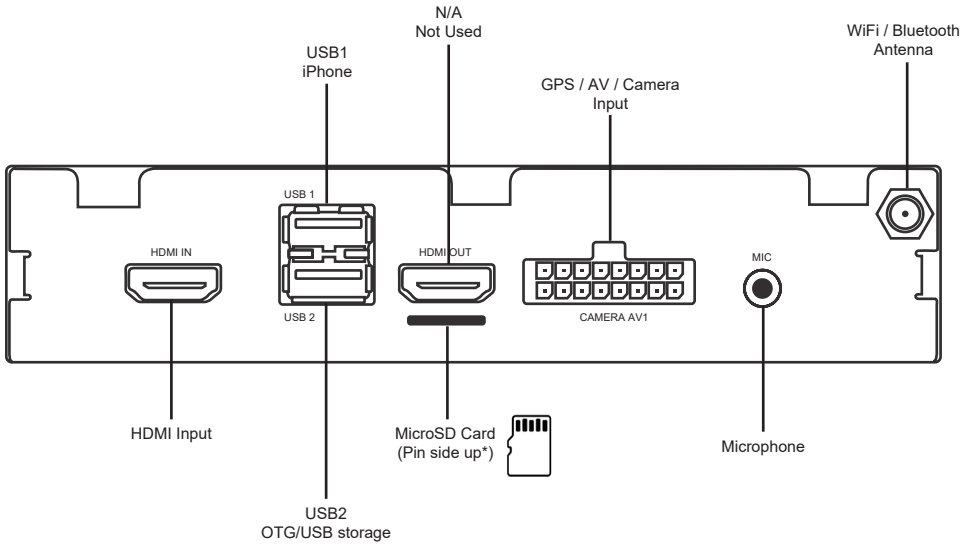
## Mounting the VLine Module

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  $-30^{\circ}\text{C}$  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)

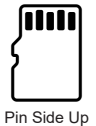
## USB2

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 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)

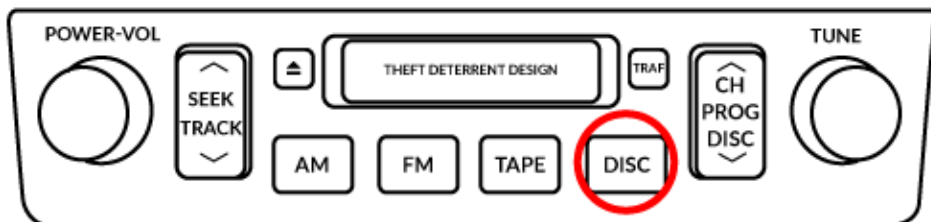
### 2.2 Functions

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.

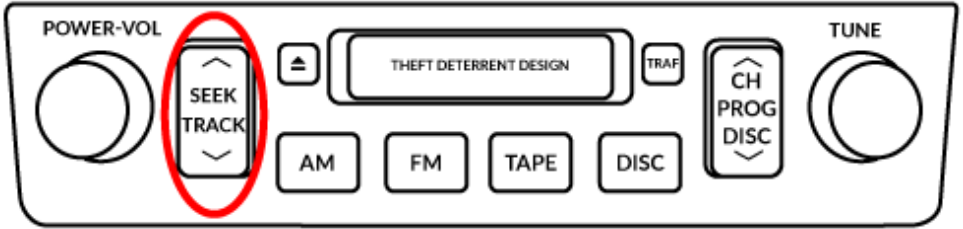
No factory functions of the stereo will be disabled. Factory Bluetooth, Navigation, Radio and CD player will remain functional.

#### 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).



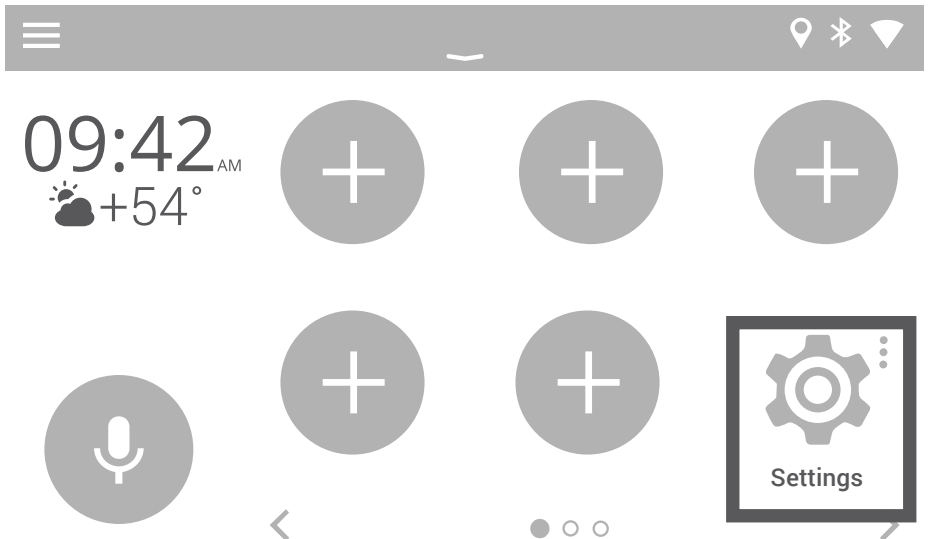
Track selection can be done with the stereo's SEEK TRACK ^ and v buttons or steering wheel buttons.



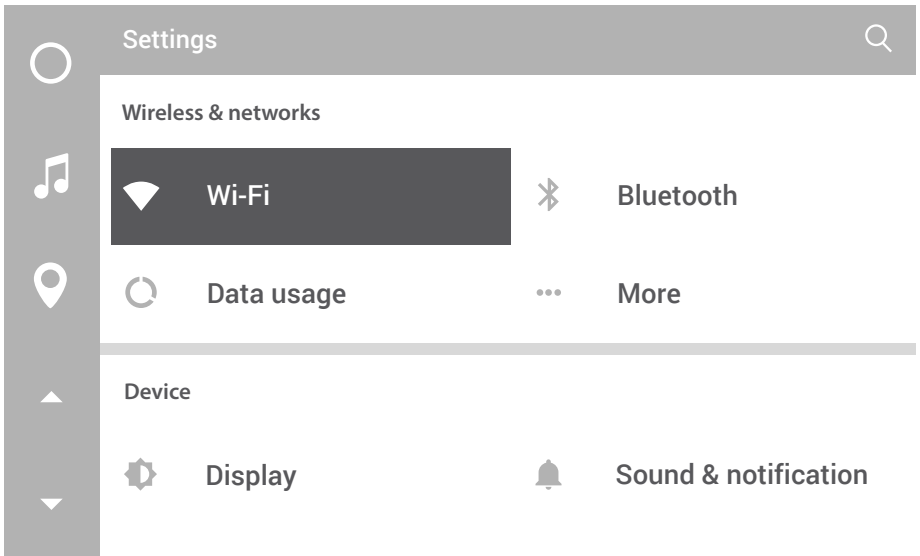
## Initial configuration

### Setting up WIFI

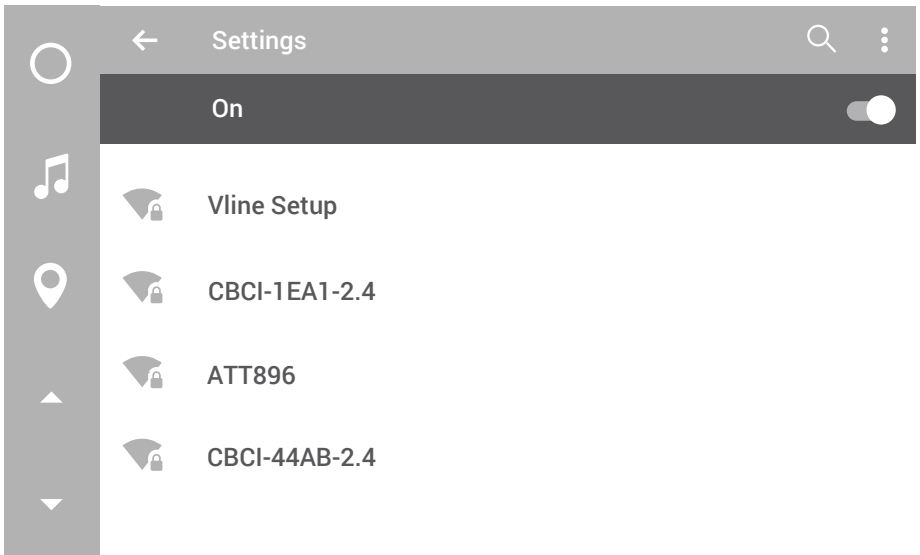
The VLINE module will require a data connection while vehicle is in mobile on road to take advantage of majority of its features.



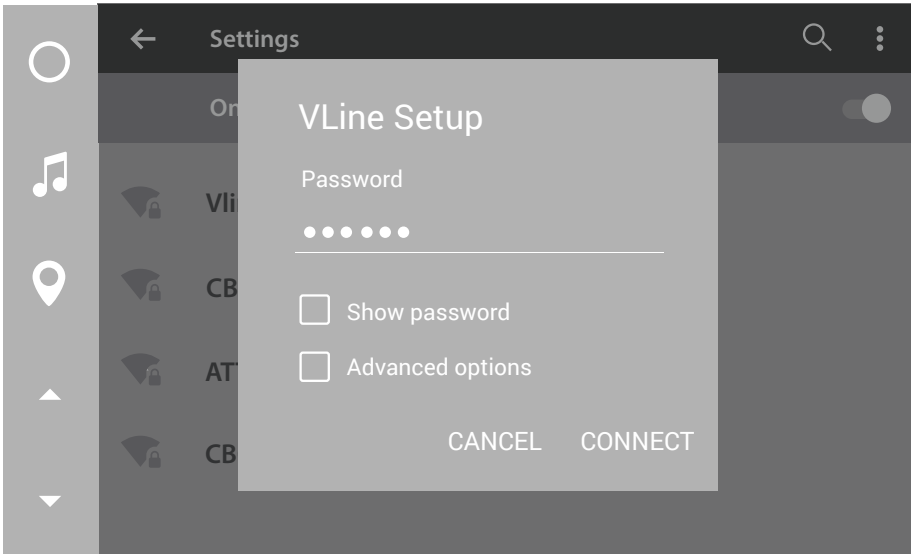
Go into WiFi Settings



Select WiFi channel to connect



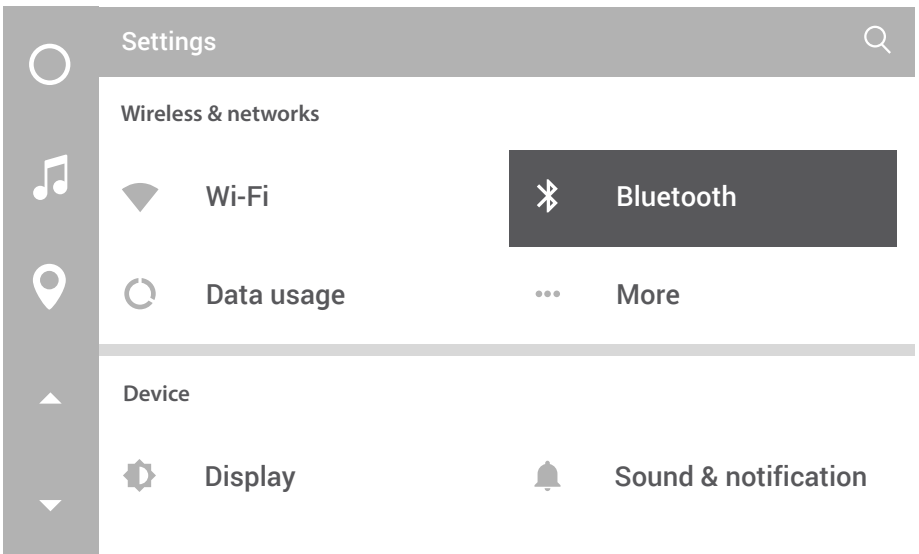
Enter In [Password] and select on CONNECT



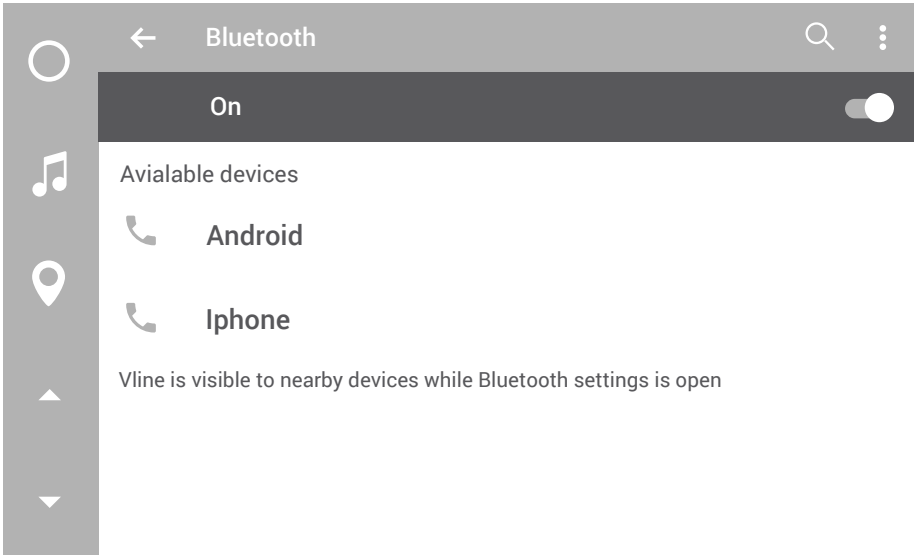
NOTE: Please check with Mobile Carrier for Hotspot data usage limits. Depending on mobile provider you might be a subject to mobile data and tethering charges.

## Setting up Bluetooth

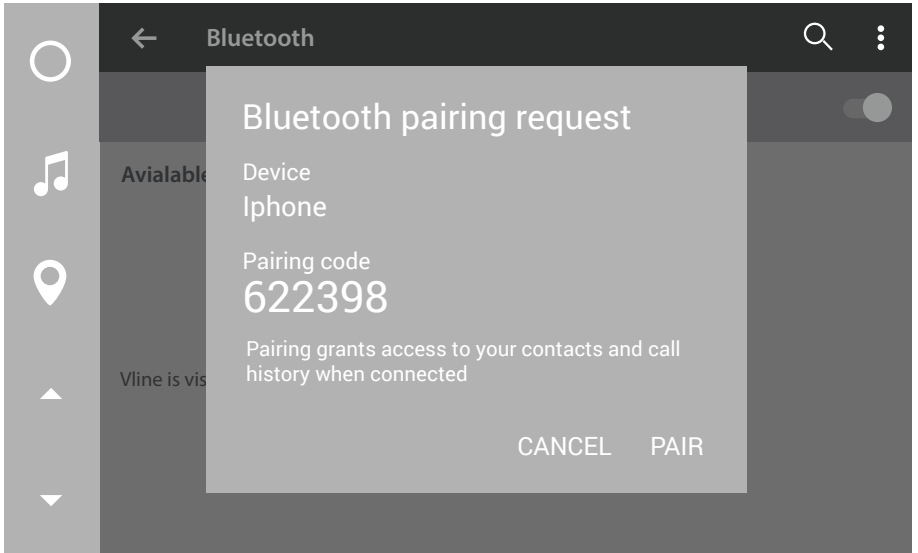
Select Settings->Bluetooth



## Use your phone to find VLine device



## Confirm PIN code on VLine and Phone



NOTE: Bluetooth Connection will allow for A2DP music streaming only



## CHAPTER 3 — ADVANCED SETUP

### 3.1 Installing Google Apps

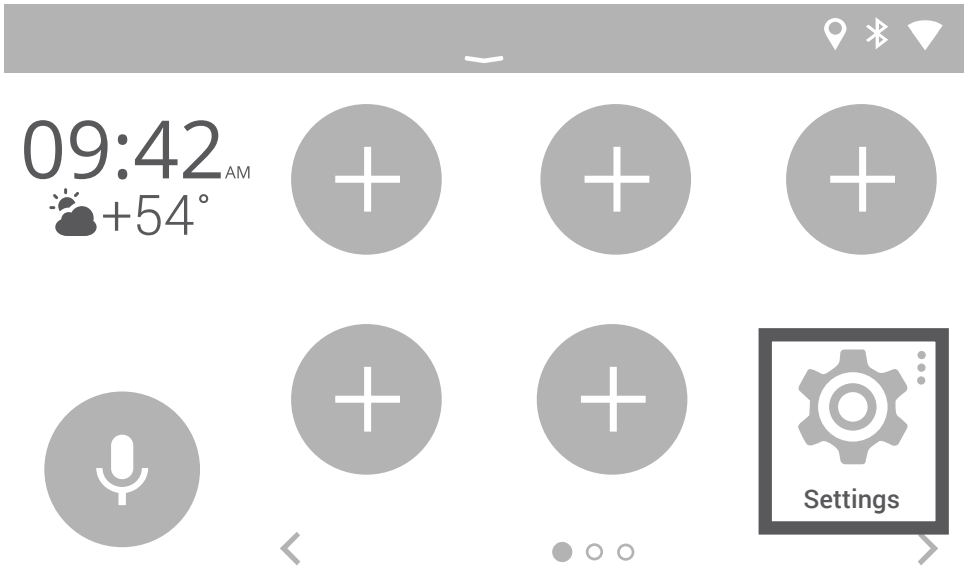
Installing Google Apps will provide you with Google Play Services on the VLINE as well as add an option for Google Play Store App to download any application available.

That includes Google and Waze Maps, and other apps available at Google Play Market. This is strictly optional to install but with it installed it will open up more functional for the VLINE module.

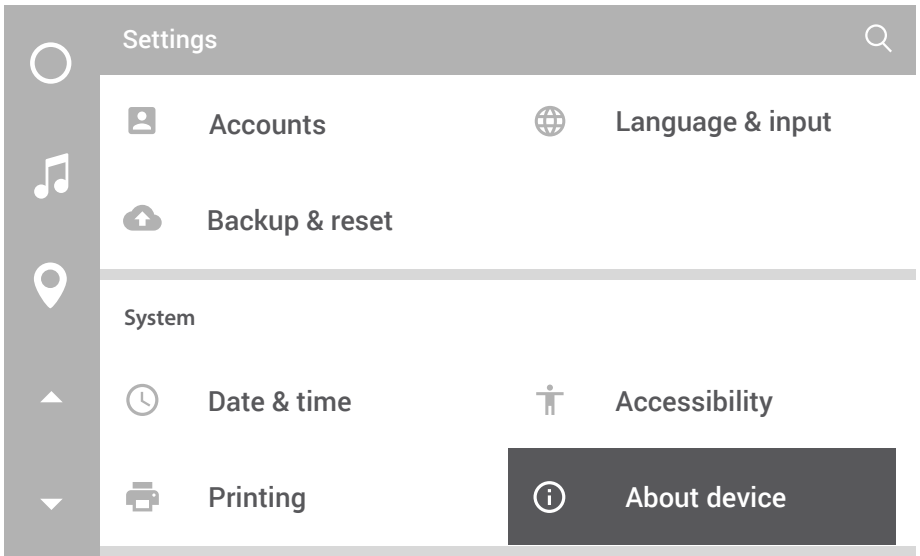
You also need to install G-Apps in order for **Voice Activation** button to work.

To install the Gapps Package:

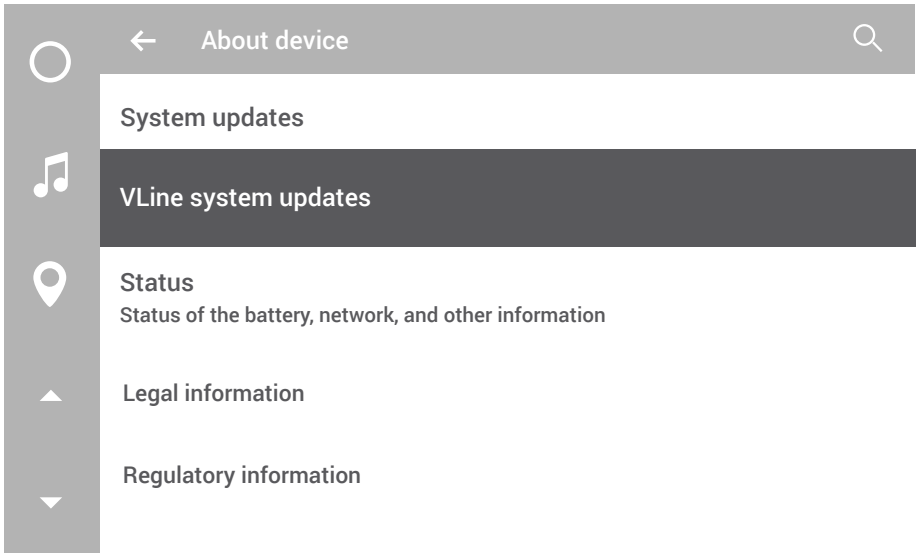
Go into Settings



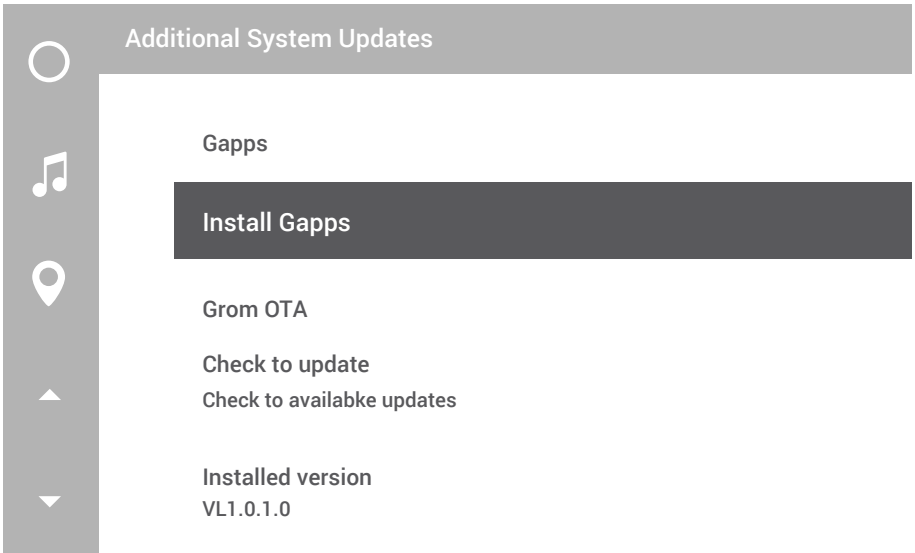
Scroll down all the way to the bottom and select “About Device”



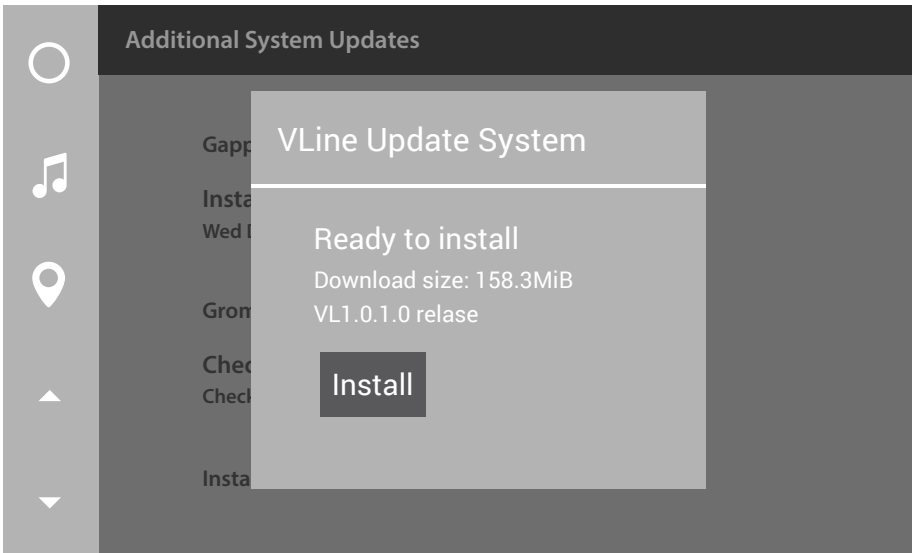
Then select “VLINE System Updates



Select "Install GApps"



Press the "Install" button to apply update.

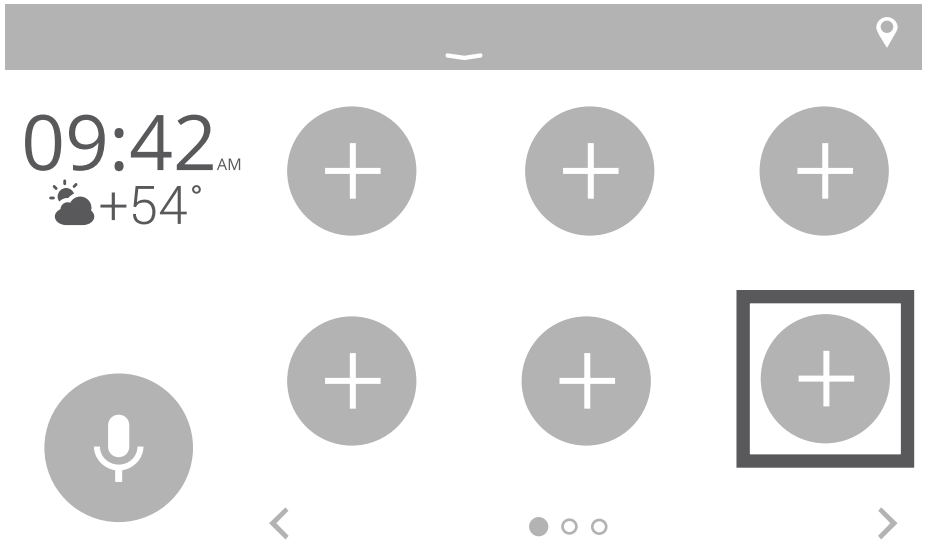


Wait for update to download and apply. The VLINe will restart during the process (this may take up to 10 minutes)

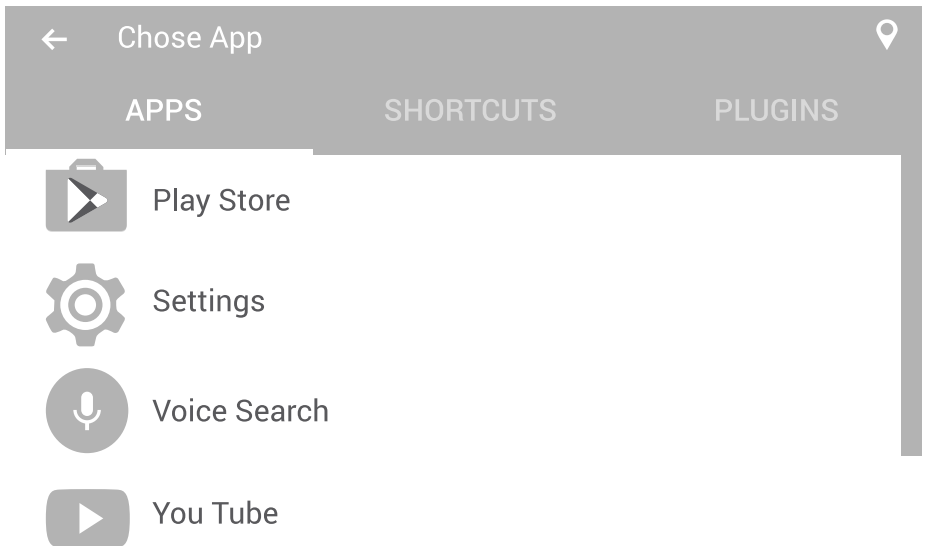
**If System does not boot up within 15 minutes, Please turn off Ignition and wait 1 minute and then turn Ignition on again.**

## Adding Apps to Home Launcher

Select Empty Spot You Wish to Add Icon to

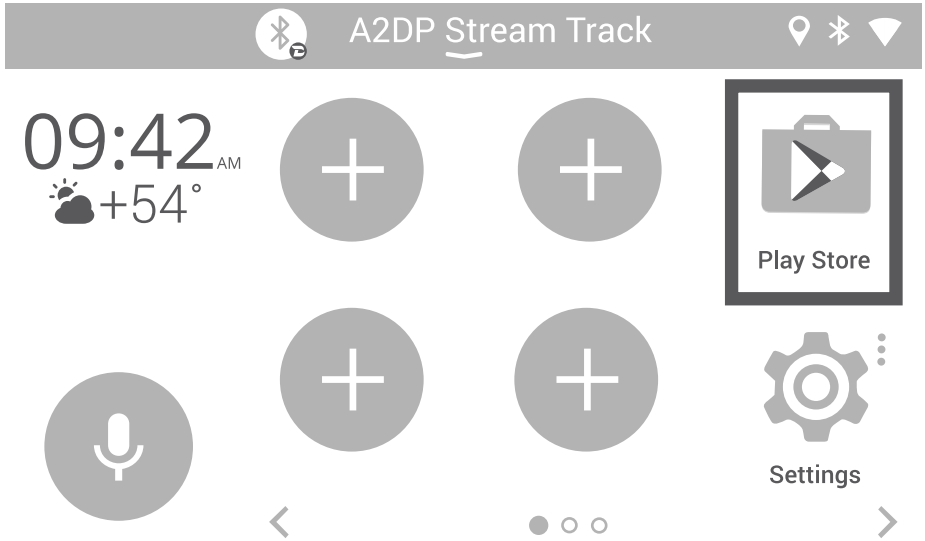


Select the Application/Shortcuts/Plugins you wish to add, in this case the "Play Store" Application.

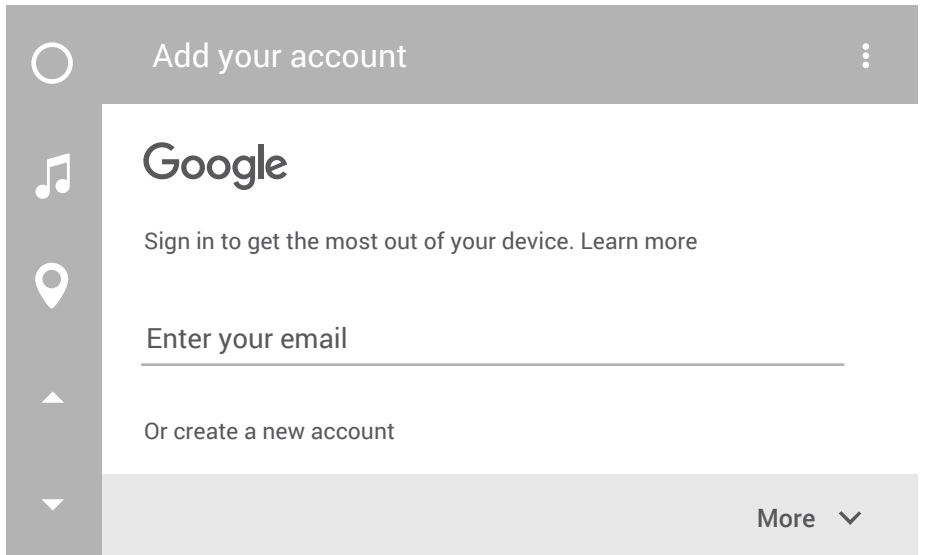


# Signing onto Google Account

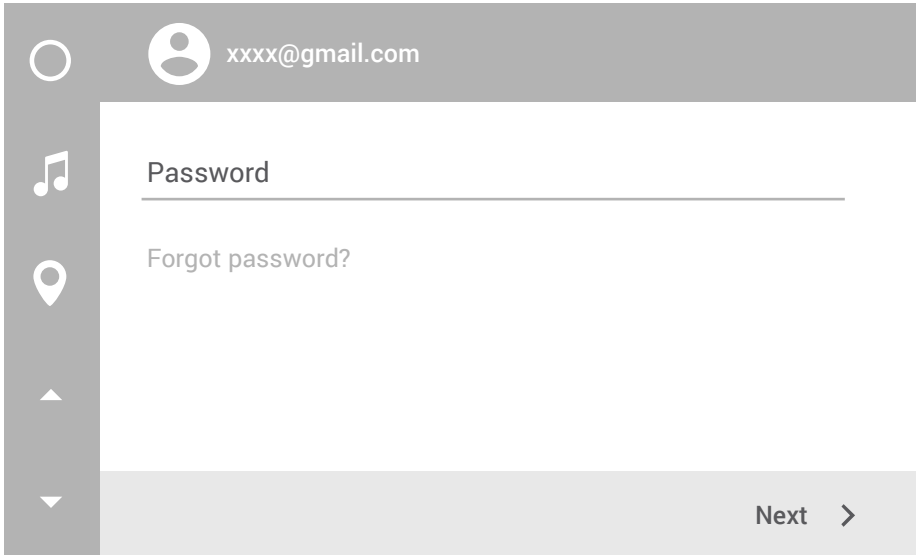
Select the Play Store Icon



First time signing into the Google Play Store, you will be prompted to enter your Google (Gmail) account information.

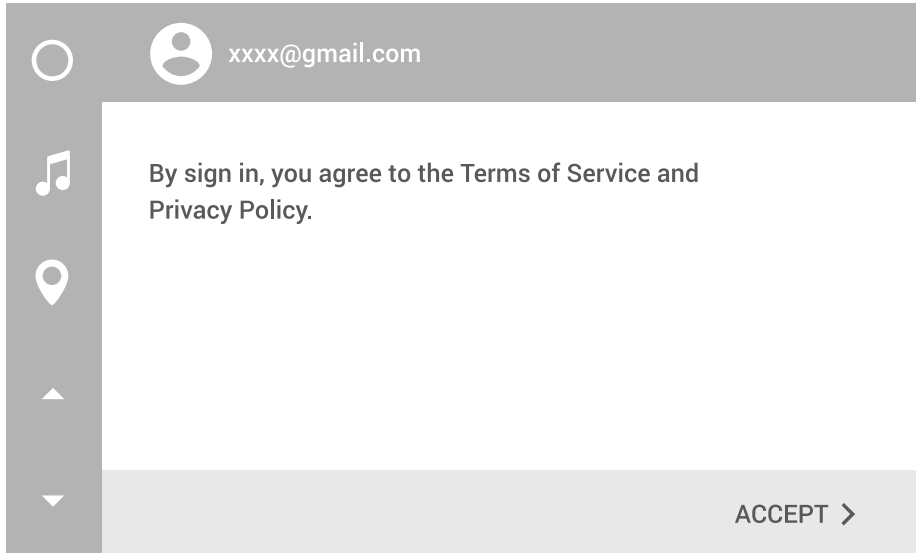


## Enter in password for Gmail account



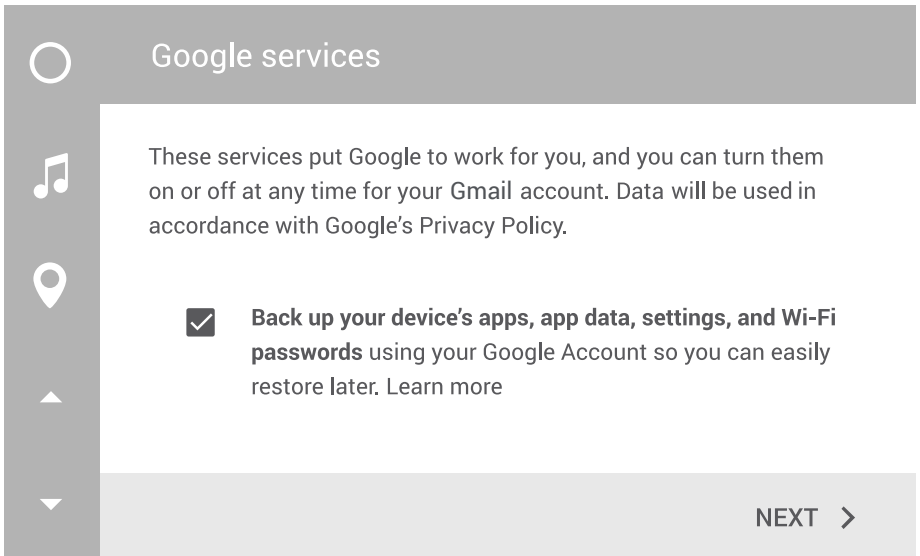
A screenshot of the Gmail password entry screen. At the top, there is a header bar with a circular profile icon on the left and the email address "xxxx@gmail.com" on the right. Below the header, on the left side, there is a vertical sidebar with four icons: a music note, a location pin, an upward-pointing triangle, and a downward-pointing triangle. The main content area contains the text "Password" followed by a horizontal input line. Below the input line is the text "Forgot password?". At the bottom right of the screen, there is a "Next >" button.

## Confirm the onscreen Terms of Service and Privacy Policy prompts from Google

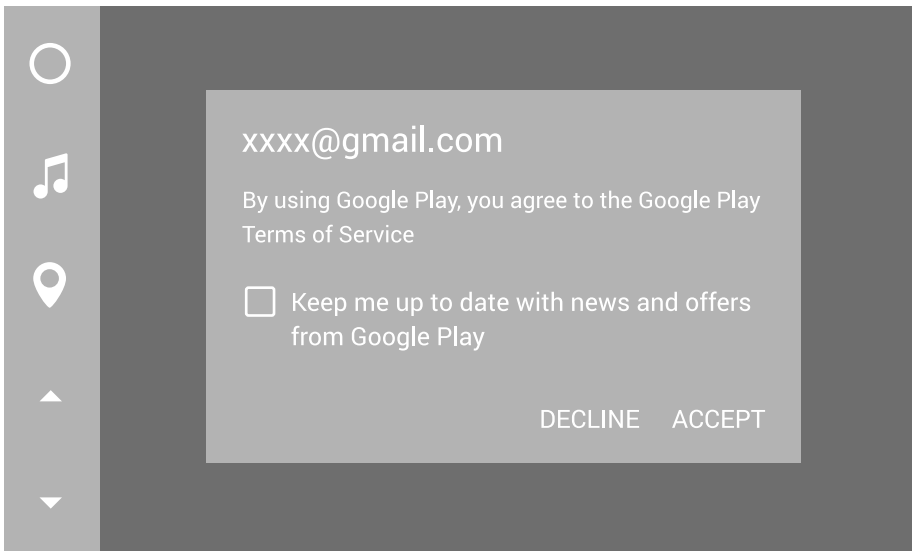


A screenshot of the Gmail Terms of Service and Privacy Policy prompt screen. The layout is identical to the previous screenshot, with the same header bar, sidebar, and input field. The main content area now displays the text "By sign in, you agree to the Terms of Service and Privacy Policy." At the bottom right of the screen, there is an "ACCEPT >" button.

## Select next on Google Services Prompt

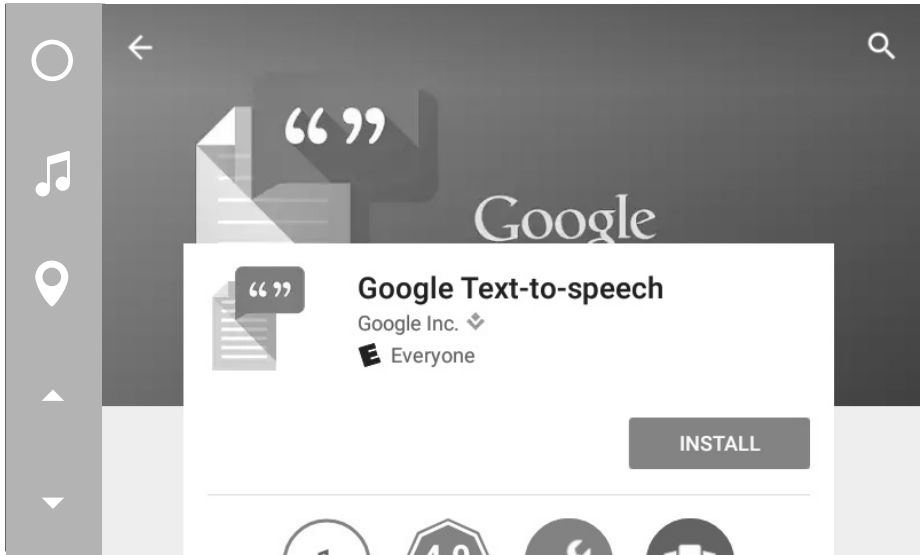


## Confirm Google Play store agreement



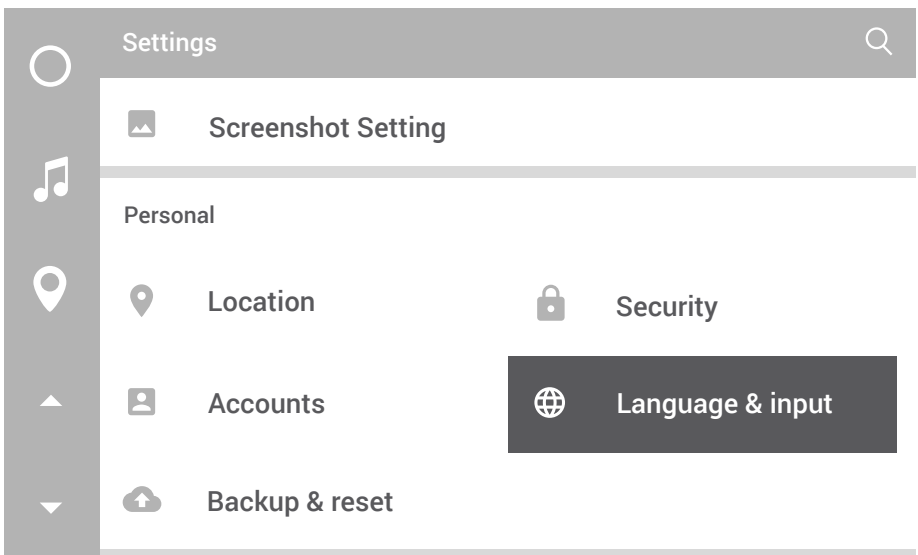
## Changing Text-to-Speech Output

Once you have GApps installed, download and install Application “Google Text-To-Speech” from the Google Play store to change the Voice Synthesizer for Voice command button to one that is more pleasing to listen to.



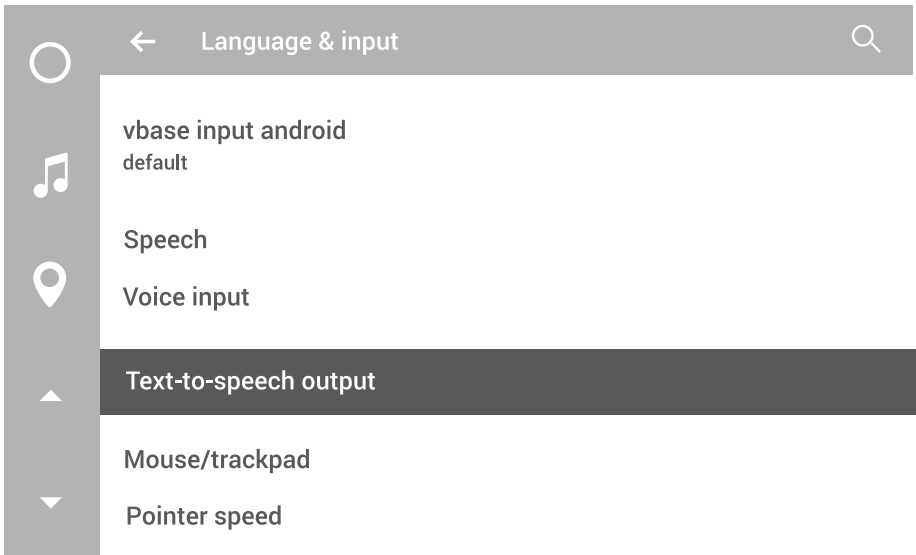
After installing “Google Text-To-Speech” from the Google Play store a change to in VLINE settings under “Language & Input/Text-to-Speed Output” will be necessary.

In settings, “Select Language & Input”

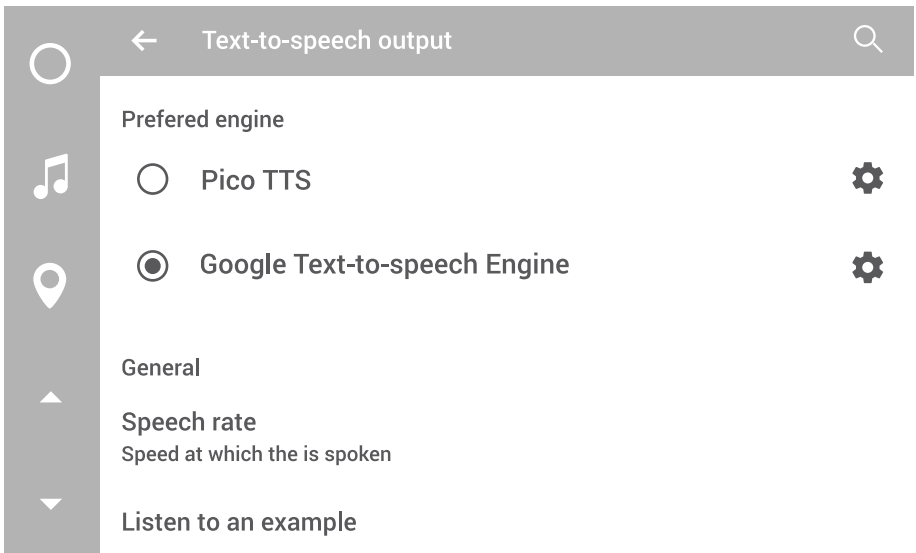




Select "Text-to-speech output"



Select "Google Text-to-Speech Engine" for Preferred Engine

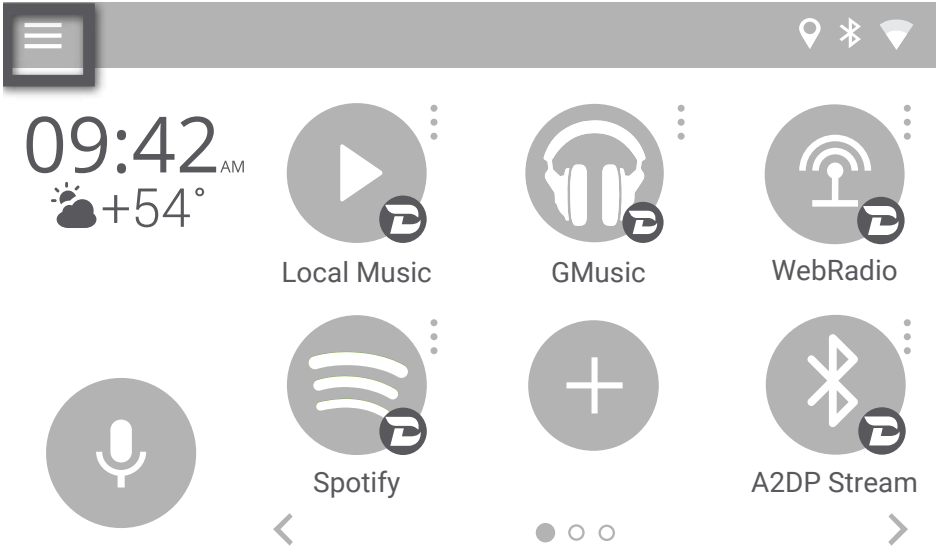


A reboot of VLINE will be required before changes are reflected.

## 3.2 Maps Installation

Google Maps

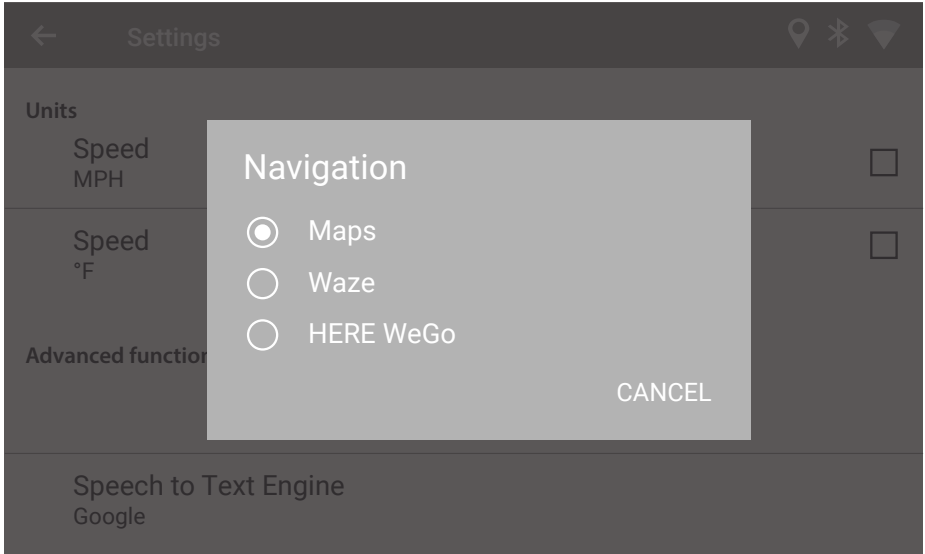
Select menu



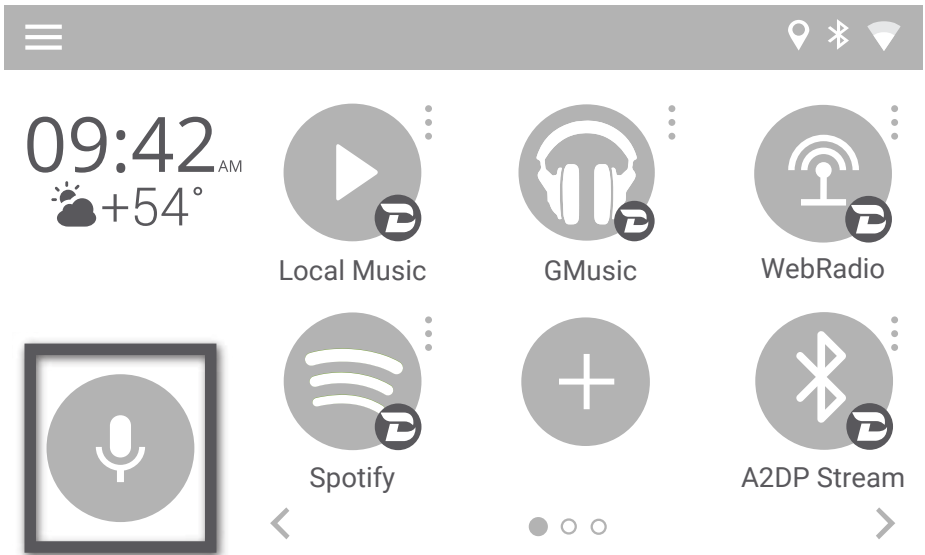
Select navigation



## Choose your preferred map application



## Activate navigation using voice icon

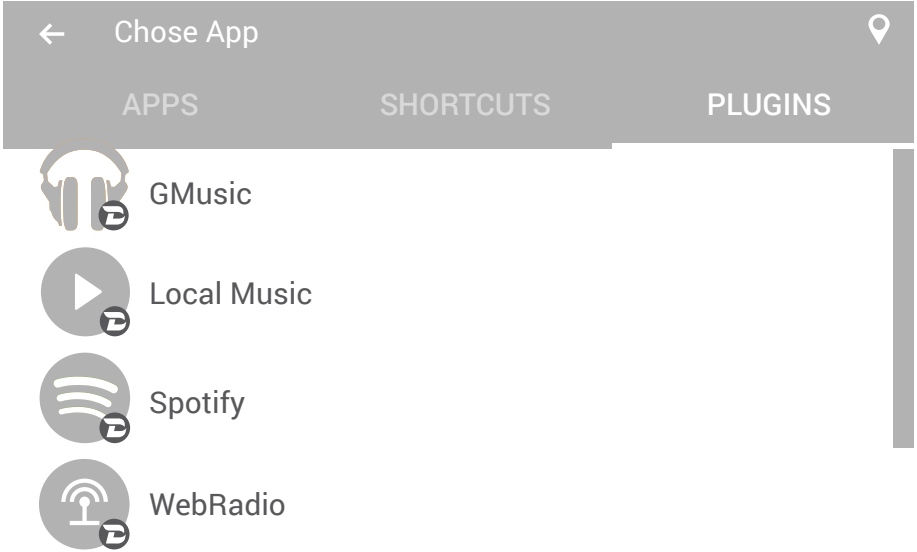


## CHAPTER 4 — MEDIA PLUGINS

VLINE provides media plugins with an optimized interface with bold graphics and easy to press buttons for the vehicle environment. Most of these plugins require a Data connection to work besides Local Music and A2DP Stream

To add plugin onto the Home screen, select EMPTY “+” where you would like to place the icon.

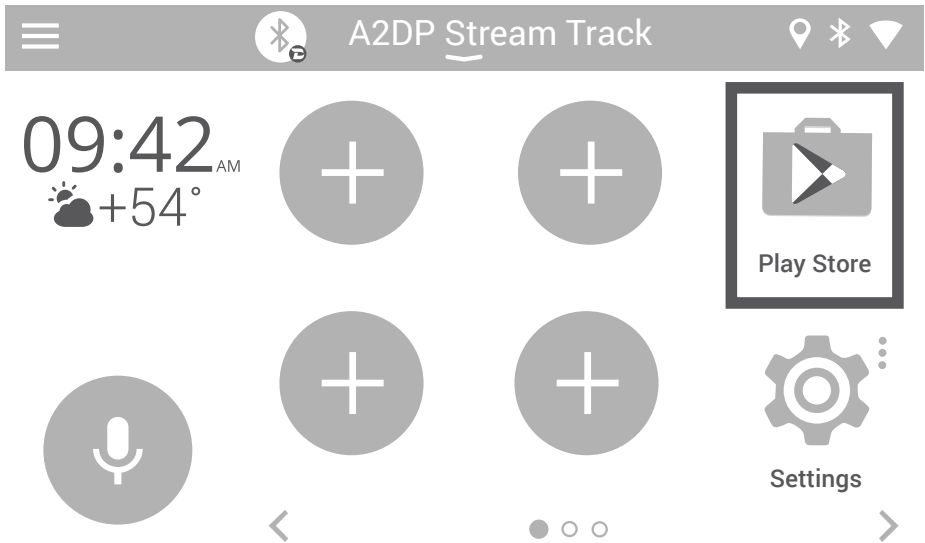
Then scroll to Plugins and selected desired plugin to add



# A2DP Stream



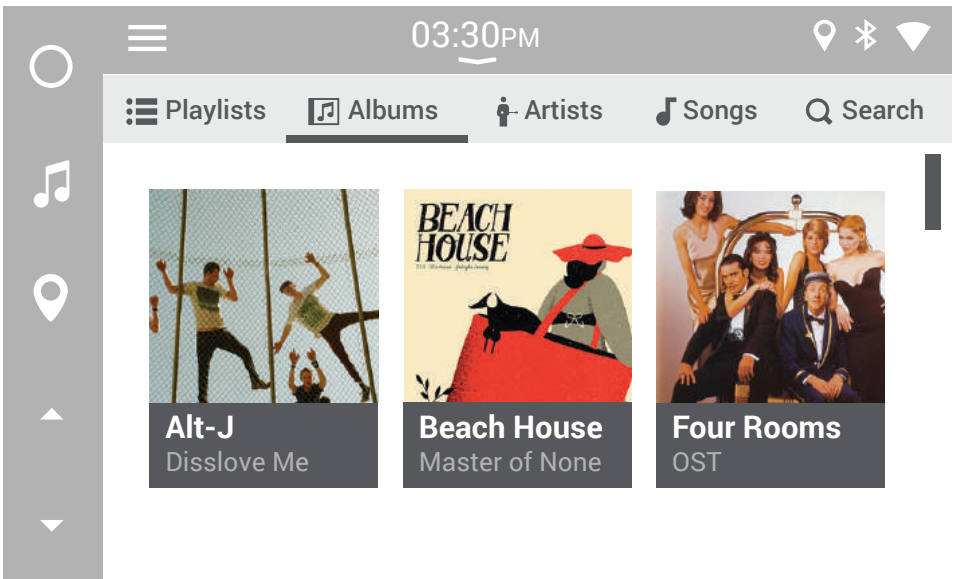
- Bluetooth Music streaming from a Bluetooth enabled device
- Grey icon means there is no Bluetooth connection from Phone to VLine
- Blue icon means Bluetooth device is connected and ready to stream audio. (Please refer to Bluetooth setup portion of manual)
- Song/artist info will display on screen
- Album artwork will display if VLINE is connected to WiFi data connection, (Please refer to WiFi setup portion of manual)



# Google Music



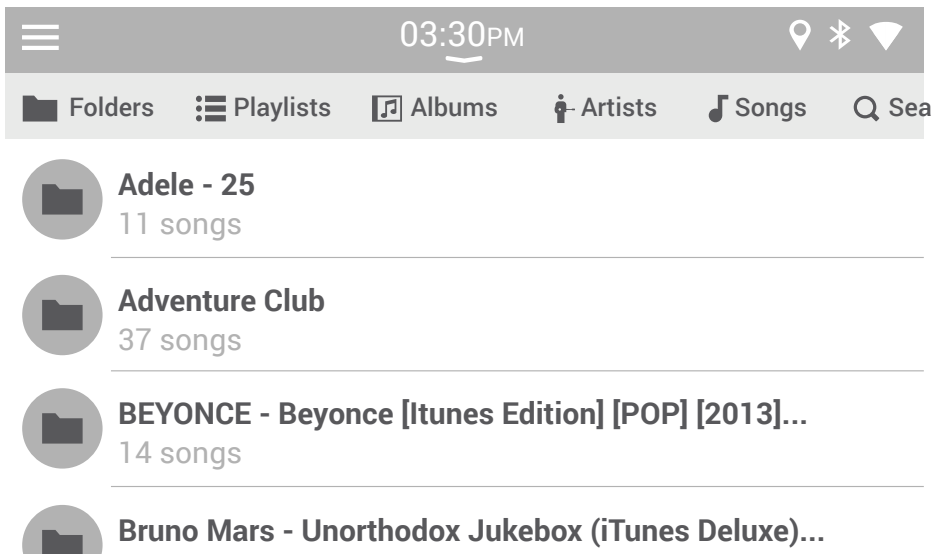
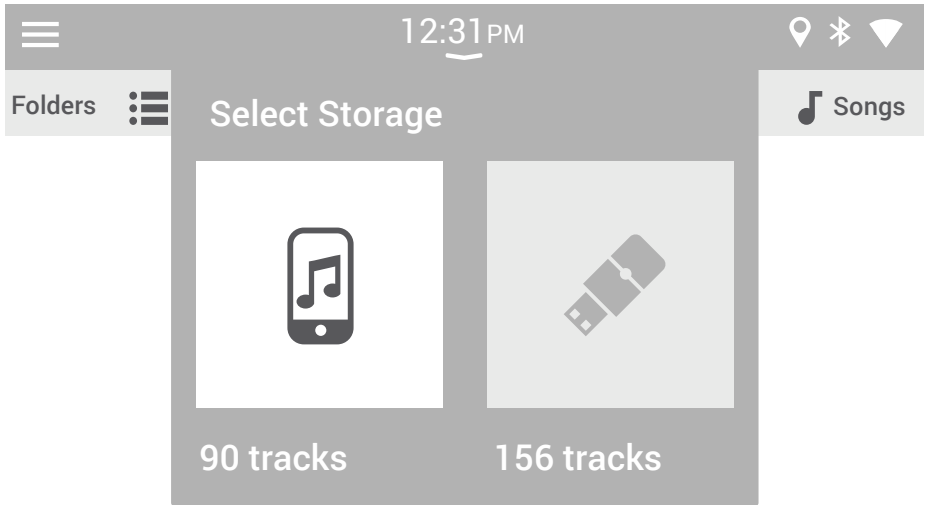
- Allows access to your Google Play music Purchased/ uploaded\*
- Will require Gapps to be installed on VLINE (Please refer to Gapps Installation of manual)
- To use Gapps you must have a Google account and be signed into the account
- \*Only Purchased music library and Uploaded media will work, unlimited subscription/radio music will not work



# Local Music



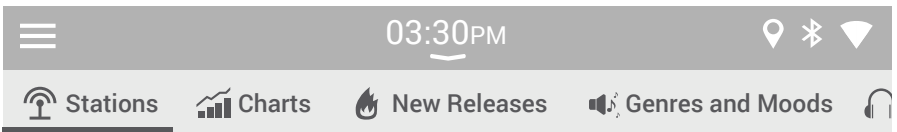
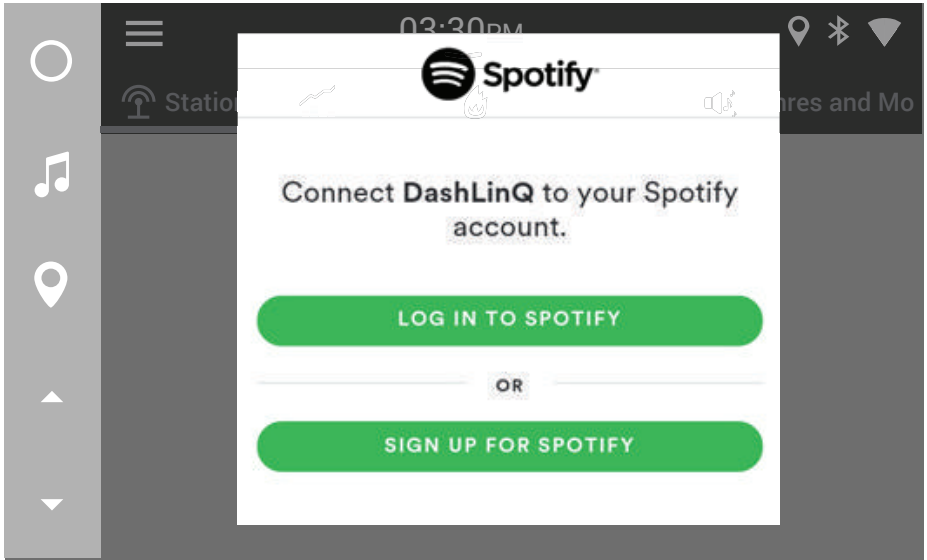
- Play music/audio stored on VLINE, USB drive or microSD card
- Plugin will read the music on selected storage and automatically organize music library by categories (Folder, Playlist, Album, Artist and Songs)
- Create Playlists from within the Plugin.



# Spotify



- Millions of songs on Spotify.
- Play your favorites, discover new tracks, and build the perfect collection.
- Requires Spotify premium account and to be logged in (free Spotify account will not work with this plugin)



**Blues**



**Christian music**



**Classical**



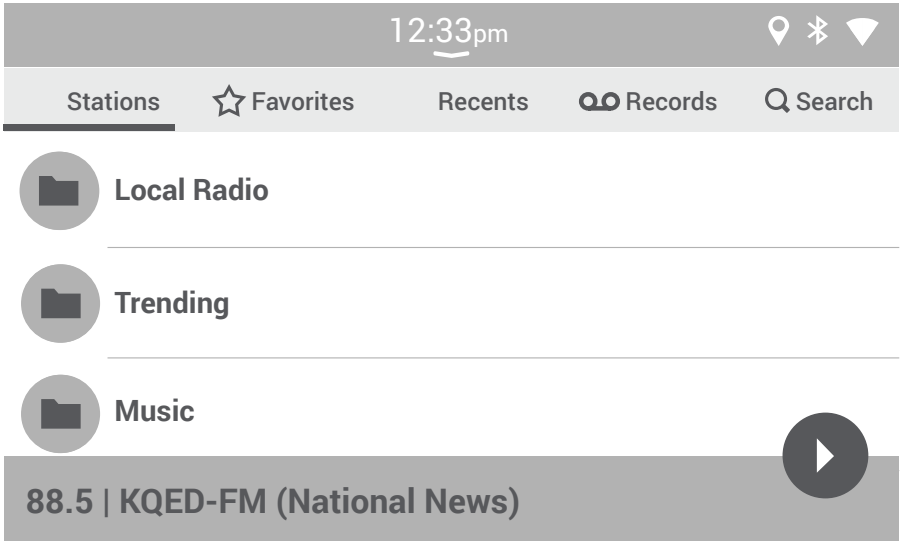
**Comedy**



# Web Radio



- Stream Radio stations from around the world as well as local radio stations
- Listen to 100,000+ live radio stations, plus on-demand content like podcasts & shows anywhere you go.
- Searchable Stations by Local, Trending, Music Genre, Sports, News, Location, and Language.
- Star your favorite radio stations so you can easily access next time
- Record what is currently playing and listen to it later without WiFi connection.

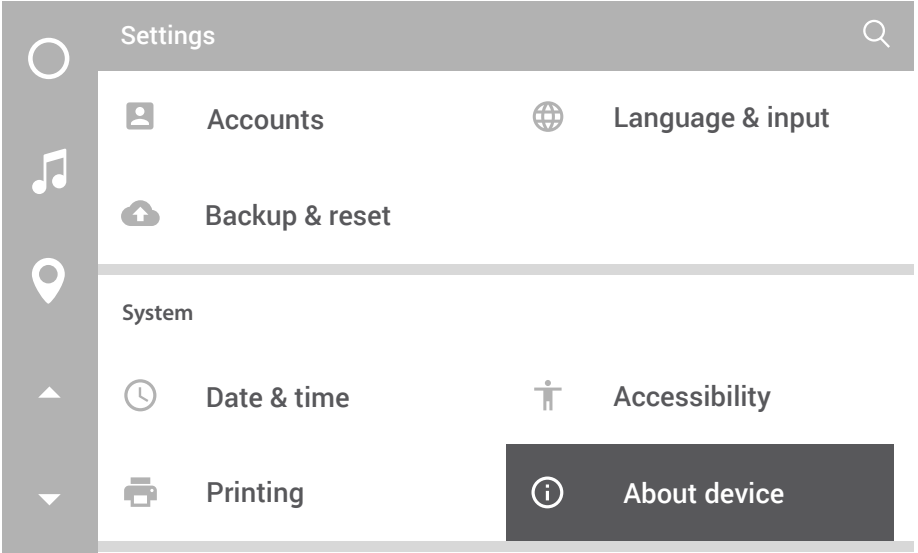


## CHAPTER 4 — VLINE OTA UPDATE

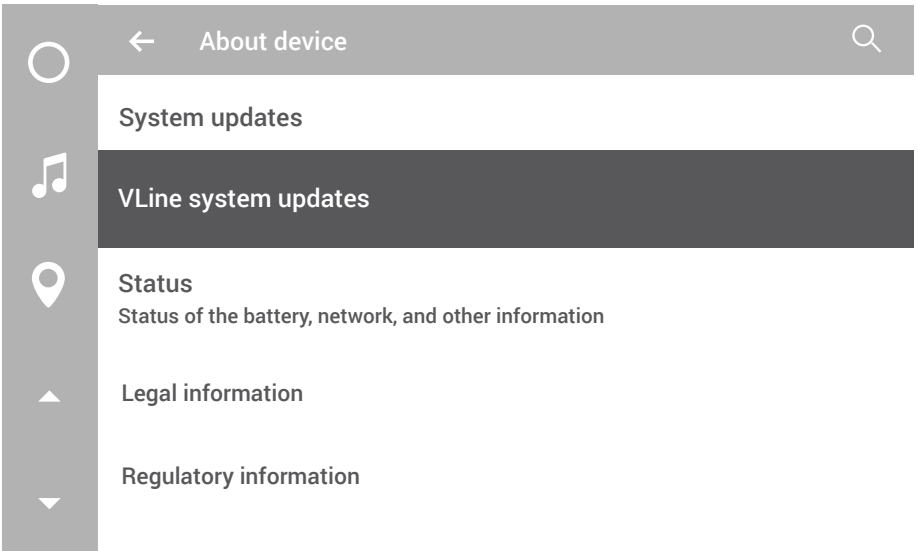
Periodically there will be Updates available for the VLINE to enhance features or to fix minor bugs.

NOTE: Make sure you are connected to a Wifi Connection before checking for update.

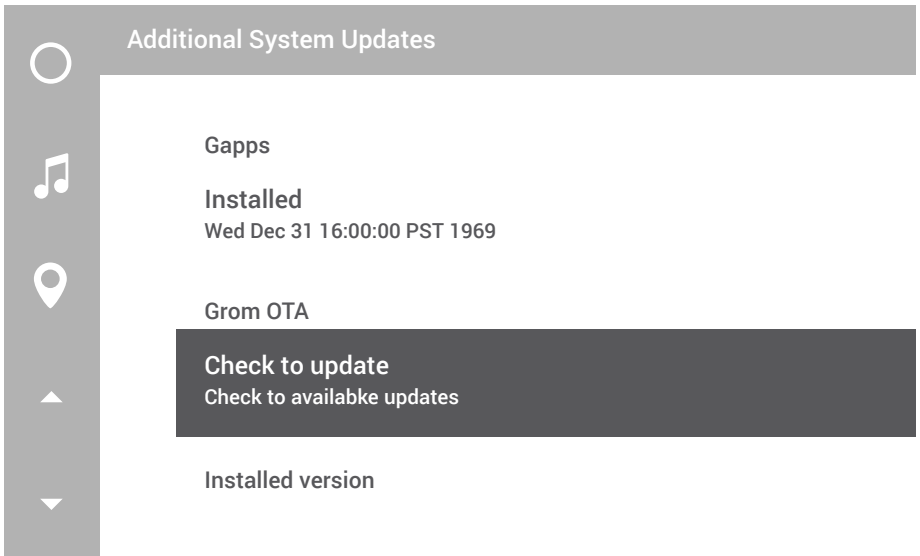
To install OTA updates go to “Settings->About Device”



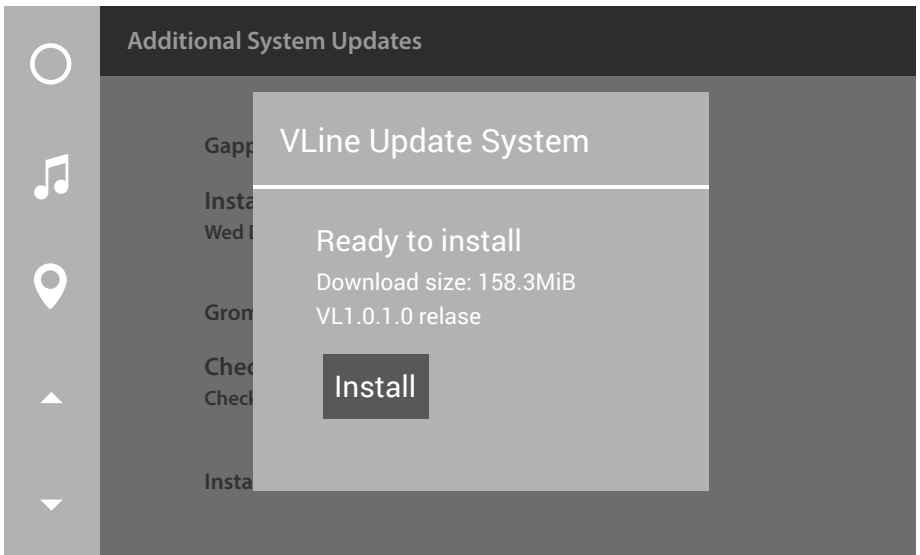
Select “VLINE System Updates”



Then select "Check for Updates"



If there is update available it will appear on screen to downloading



Wait for update to download and apply. The VLINE will restart during the process (this may take up to 10 minutes)

**If System does not boot up within 15 minutes, Please turn off Ignition and wait 1 minute and then turn Ignition on again.**

## **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).

## **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!**

## **LEGAL AGREEMENT and SAFETY DISCLAIMER**

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YOU, THE END-USER, OR ANY OTHER DRIVER OF THE VEHICLE, IS SOLELY RESPONSIBLE FOR THE SAFE OPERATION OF THE VEHICLE AND THE SAFETY OF BOTH YOU AND THE PASSENGERS. FOR SAFETY PURPOSES, THE PRODUCT SHOULD NOT BE USED FOR THE DRIVER'S ENTERTAINMENT, WHILE THE VEHICLE IS BEING DRIVEN. SUCH USE COULD BE A DISTRACTION TO THE DRIVER, WHICH COULD CAUSE AN ACCIDENT LEADING TO SERIOUS

INJURY OR DEATH. IF YOU, THE END-USER ALLOW ANOTHER PERSON TO USE THE VEHICLE, IT IS YOUR RESPONSIBILITY TO THOROUGHLY BRIEF THAT OTHER USER, ON THE SAFETY REQUIREMENTS FOR OPERATING THE VEHICLE AND THE PRODUCTS INSTALLED THEREIN.

(B) SAID DISCLAIMERS SHALL APPLY TO THE USE OF SAID PRODUCTS, EVEN IF GROM HAS BEEN INFORMED OF, KNEW OF, OR SHOULD HAVE KNOWN OF THE LIKELIHOOD OF SUCH DAMAGES. THIS LIMITATION APPLIES TO ALL CAUSES OF ACTION IN THE AGGREGATE, INCLUDING WITHOUT LIMITATION: BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, STRICT LIABILITY, MISREPRESENTATION AND OTHER TORTS. IF GROM'S WARRANTY DISCLAIMER OR LIMITATION OF LIABILITY SET FORTH IN THIS AGREEMENT SHALL, OR FOR ANY REASON WHATSOEVER, BE HELD UNENFORCEABLE OR INAPPLICABLE, YOU AND ANY OTHER END USER AGREE THAT GROM'S LIABILITY SHALL NOT EXCEED (70%) OF THE PRICE PAID FOR THE ENCLOSED GROM PRODUCT.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty Disclaimer and Limitation of Liability shall not be applicable to the extent that any federal, state, or local law, which cannot be preempted, prohibits any provision of this Warranty.

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 further agree to use the GROM Product in:

- a manner consistent with all applicable laws and regulations and this Agreement;

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

You agree not to use the GROM Product:

- for any illegal, non-personal or unauthorized purpose,
- in a manner that could damage or cause risk to GROM Audio business, reputation, employees, customers, facilities, or to any third party,
- in a manner that would distract the driver or that may otherwise cause injury or death to vehicle occupants or bystanders.

GROM Audio is not in any way responsible for any such use by you. In all cases, GROM Audio may limit or revoke your use for any reason and at any time. Use of some GROM Product features while a vehicle is in motion may be against the laws of the jurisdiction in which you use the GROM Product. Use of some GROM Product features by the driver or by the vehicle occupants while a vehicle is in motion may also be distracting to the driver and could cause serious 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 GROM Product 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 GROM Product.

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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.

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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.

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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