



GROM
AUDIO

GROM-HDR1

FM HD Radio integration for compatible GROM units



HD Radio[®]

Support: <http://gromaudio.com/support.html>

Installation Instructions

Chapter 1 – Getting Started

1.1 Subject

The GROM-HDR1 adapter will allow you to add crystal clear digital FM HD radio to your existing compatible GROM adapter for your factory stereo.

1.2 Introduction

Thank you for purchasing the GROM-HDR1 adapter, which has been designed to provide high quality digital FM HD radio through a compatible GROM adapter. To insure that your GROM-HDR1 interface performs correctly in your car or truck, we recommend that you read this entire manual before attempting the installation. GROM-HDR1 system is compatible with **select** GROM interface adapters. If you are not sure if your adapter is compatible please SEE BELOW

Compatible units include:

USB2p (with batch number 844 and up), USB3, MST3p, MST4, IPD4, BT3, and IPD3.

Depending on the firmware that is currently installed on your unit it may be necessary to update the firmware for proper functionality of the GROM-HDR1.

1.3 Precautions

Proper mounting location

Securely install the interface in a location that is free from heat, humidity, moving parts, or direct sunlight. Beware of hot airflow from your vehicle's climate control system. We recommend securing the interface to a suitable location, free of sharp metal edges, using double-sided tape, velcro, or wire ties.

1.4 Disclaimer

- This product is not affiliated with any of the OEM manufactures
- Modifying the radio may void any outstanding warranty.
- The purchase of this product carries with it no warranties, either expressed or implied.
- While every care has been taken to provide a quality product, we cannot guarantee that the GROM HDR1 adapter to function correctly if installation is not done according to the instructions in this guide.
- Keep your eyes on the road while driving!
- We are not liable for the misuse of this product. Misuse includes improper installation, damage to the board or radio while trying to install it, and the illegal use of the radio.

1.5 Contents of kit and connection.

GROM-HDR1 adapter set consists of:

- a) GROM module (HDR1)
- b) MiniDin cable
- c) Amplified antenna.

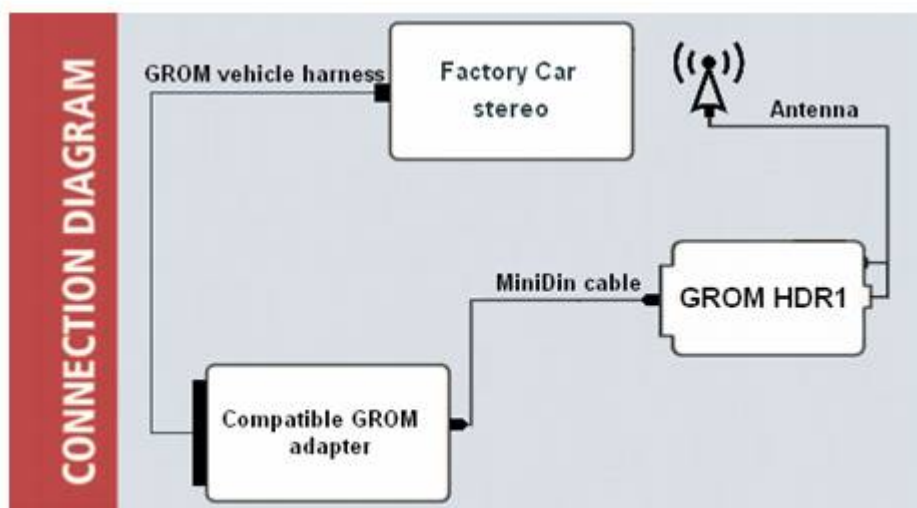
a) GROM HDR1



b) MiniDin cable



c) Amplified antenna



1.6 Important Compatibility Notes

The GROM-HDR1 will work with compatible existing GROM interface units USB2p (batch #844 and up), USB3, MST3p, MST4, IPD4, BT3, IPD3. It will NOT work with other GROM units that are not listed. The GROM-HDR1 will occupy the EXT2/AUX port of the GROM unit. If you currently have a AUX or iPod cable connected you will need to disconnect that accessory in order to connect the GROM-HDR1.

Chapter 2 – General Installation

2.1 Installation location:

To install the GROM-HDR1 you will need access to the compatible GROM unit to install the MiniDin integration cable. The HDR1 module should be in an easy to access location. The antenna should be mounted on the dash or on the front windshield but should not obstruct the drivers view in anyway.

2.2 Tools needed:

In many cases, there are no special tools required in order to remove the stereo out. For some stereos, it is better to use car stereo removal tools. Please consult your local car audio shop or your vehicle's dealership for instructions or assistance if necessary.

If you are unsure how to install the interface properly, we recommend contacting your local car stereo shop for the assistance.

2.3 Preparation and adapter installation

1. Turn off car engine and remove key from ignition

2. Connect supplied MiniDin cable to EXT2/AUX port of GROM module, then connect other end to HDR1 module
3. Run antenna to desired location then connect antenna and 2pin power connector to the HDR1 module
4. Once the interface is connected to the radio, you will need to test the operation of the interface before re-assembling the dash.
5. Turn your car stereo on and switch it over to the CD Changer or SAT mode using the Disk / Mode / CD / XM (depending on the stereo type). *On USB based units you will need to switch to the "radio" mode of the GROM unit. Please see mode changing in your GROM units operation manual.*
6. Cycle through the HD radio stations and ensure that the adapter is working properly, if the vehicle is in a garage or other location that may interfere with reception you may want to move the vehicle to a better location.
7. Once the operation of the interface is confirmed, you may continue with the installation. If you experience difficulties with the installation, please see our **troubleshooting section**.
8. Find a place where you can place the GROM-HDR1 adapter. In many cars, there is enough room in the dash to place GROM.

Note: Make sure you mount the GROM-HDR1 adapter in the place with enough room so that, when you re-mount the car stereo, you do not break the adapter.

Re-mount your car stereo, making sure its clips or screws are secure.

2.5 Antenna mounting

The antenna can either be mounted on the dash or on the inner side of the windshield of the vehicle but should NOT obstruct the drivers view in any way. The antenna will come with velcro mounting option for easy installation, make sure to clean the surface before mounting the antenna. After you have found your location, carefully route the antenna cabling to the GROM-HDR1 adapter. Connect the antenna and the 2 pin power connector securely into the GROM-HDR1 unit.

Some examples of installation location options:

Mounted on top of dash

Mounted next to rear view mirror

Mounted top of windshield



2.6 Testing the operation

Testing

1. Turn ON factory stereo. You may need to turn the ignition off for about 10 seconds then on for the stereo to recognize the GROM HDR1 for the first time.

BT3/IPD3 operation

When using HDR1 with a BT3 or IPD3 product there are some slight differences in operation compared to all other compatible adapters. To operate your unit you will still follow one of the sets of operation instructions below with some slight differences.

1. When saving presets you will not hear a confirmation beep there will just be a slight pause in audio.
2. There are only 5 available presets for HD radio preset/disc 6 is dedicated for AUX input, If you wish to either mute the HD radio or use AUX input feature switch to preset/disc 6
3. iPod functionality has been removed to add HDR1 support, If you still wish to use the 30pin iPod cable you can there will just be no stereo/steering wheel controls as well as no track information displayed on stereo it will just function as an audio/charging cable.

SAT firmware operation

(This section applies to Ford, GM, Honda SAT, Hyundai, Nissan SAT, Volvo SAT firmware units.)

Operation

1. Press SAT/XM/AUX button to select GROM unit first.
2. You will need to enter the "RADIO" mode of the GROM unit, for mode changing instructions please refer to your owner's manual of your GROM unit.
3. The HD radio current frequency appears on the display when GROM unit switched to the RADIO mode.
4. Tune to the next or previous station (or digital service) using Next/previous track button
5. If you want to access a HD2, HD3, HD4 stations you will need to first tune to the main station until it connects to the HD signal, after you can then tune to the desired HD2, HD3, or HD4 station.
6. Changing presets are mapped to the DISC/FOLDER function of the GROM unit, please refer to your operation manual of your GROM unit as this will vary by vehicle. *(Honda/Acura/Nissan SAT please see below)
7. Saving presets, you must first select the preset you wish to save a new station to, once you tune to the desired station push and hold the Next Track button till a confirmation beep is heard.
8. To switch between TUNE and SEEK function press the SCAN button to toggle between functions, stereos that do not have a SCAN button the RND/RPT/MIX button may also be used to toggle this feature.

*Honda/Acura SAT specific note

-To save presets on these vehicles press and hold the desired preset number till you hear a confirmation beep. After presets are saved you can use the preset buttons on your stereo to recall the saved preset

*Nissan SAT specific note

-To save presets on these vehicles you will first need to be on the desired preset number in the SAT mode of the stereo, tune to the desired station then you can press and hold the preset number to save the preset. After presets are saved you can use the preset buttons on your stereo to recall the saved preset

CDC firmware operation

(Dual display mode)

(This section applies to BMW (non most), Chrysler, Mbus, Mits02, and Vol01 firmware units.)

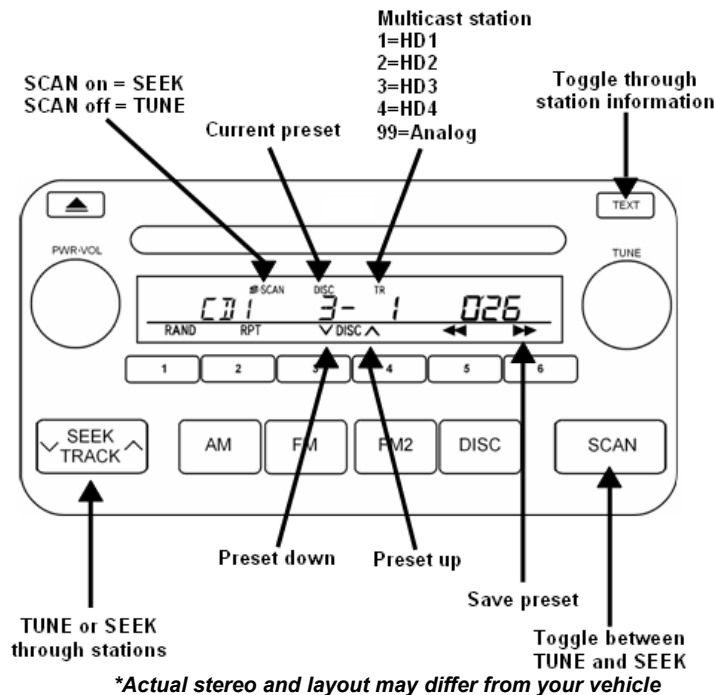
Operation

1. Press CD/DISC button to select GROM unit mode.
2. You will need to enter the "RADIO" mode of the GROM unit, *for mode changing instructions please refer to yours owner's manual of your GROM unit.*
3. Tune or seek to the next or previous station (or digital service) using Next track button. If the stereo is currently in Default display mode that shows preset number and multicast band (HDR1,2,3,4) you will need to switch it to Alternate display mode which is done by 1 press of the Next track button, while alternate display is shown you are able to change stations by using Next track button. This display is active for 5 seconds then reverts back to Default mode. Changing presets will work in either mode
4. To access a HD2, HD3 or HD4 station you will need to first tune to the main station and wait until it connects to the HD signal, after you can then tune to the desired HD2, HD3 or HD4 station.
5. To save a preset you will first need to select the desired preset number by selecting the DISC 1-6. Once you are on the desired preset, tune to the station you want then press FF/ >> to save the station, you will hear a confirmation tone to let you know the station saved
6. Toggling the SCAN function ON or OFF will switch between TUNE and SEEK function (some stereos do not have this functionality and will only tune)

*Display limitations

-Some stereos have limited display functionality and may not be able to represent station frequency properly and or station text information

Default display mode

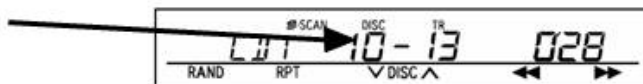


*Text support on CDC firmware only applies to select Toyota/Lexus/Scions vehicles with Text button

Alternate display mode

Station representation examples

8 - 95 = 88.5
 9 - 9 = 90.9
 10 - 3 = 100.3
 10 - 13 = 101.3



*Some stereos have limited display functionality and may not be able to display frequency properly

CDC firmware operation

(Single display mode)

(This section applies to Hon1, Maz02, Maz08, Mits08, NisCDC, SubCDC, Vag, Toy, and *MOST firmware units.)

*VOLS Single CD does not apply see VOLS operation on page 8

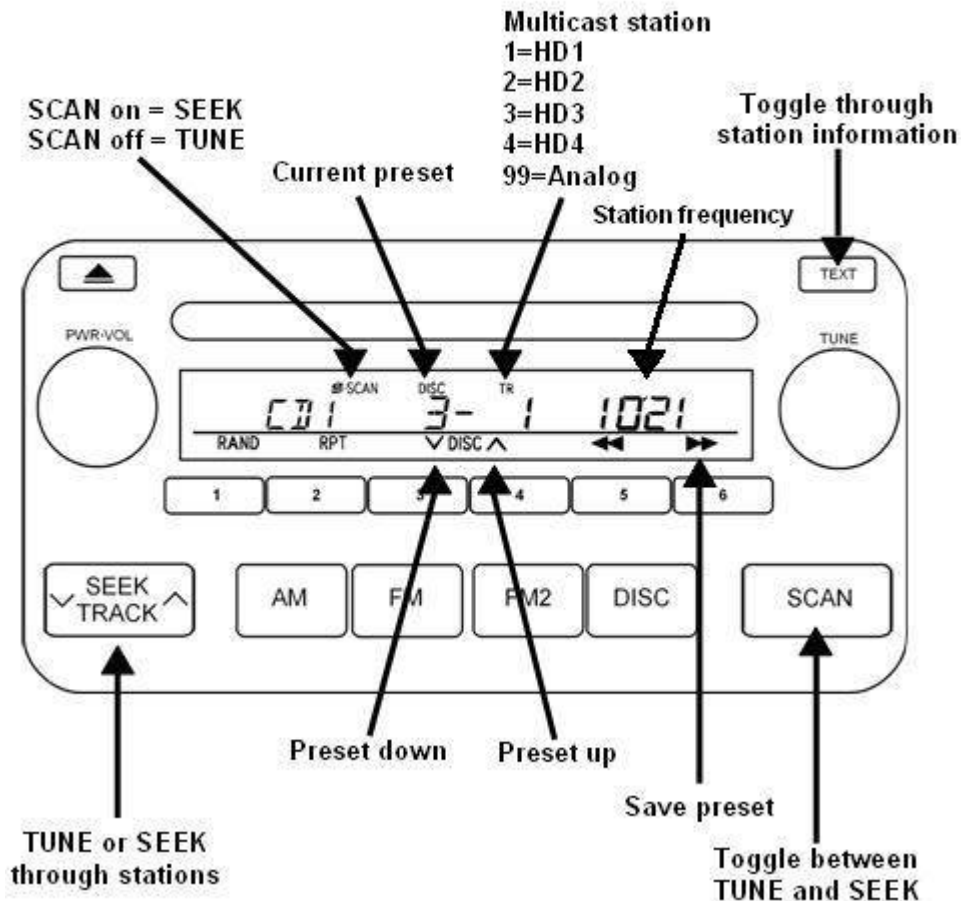
Operation

1. Press CD/DISC button to select GROM unit mode.
2. You will need to enter the "RADIO" mode of the GROM unit, *for mode changing instructions please refer to yours owner's manual of your GROM unit.*
3. Tune or seek to the next or previous station (or digital service) using Next track button. To access a HD2, HD3 or HD4 station you will need to first tune to the main station and wait until it connects to the HD signal, after you can then tune to the desired HD2, HD3 or HD4 station.
4. To save a preset you will first need to select the desired preset number by selecting the DISC 1-6. Once you are on the desired preset, tune to the station you want then press FF/ >> to save the station, you will hear a confirmation tone to let you know the station saved
5. Toggling the SCAN function ON or OFF will switch between TUNE and SEEK function (some stereos do not have this functionality and will only tune)

*Display limitations

-Some stereos have limited display functionality and may not be able to represent station frequency properly and or station text information

Single display mode



*Actual stereo and layout may differ from your vehicle

*Text support on CDC firmware only applies to select Toyota/Lexus/Scions vehicles with Text button

MOST VOLS single CD operation

(All other MOST vehicles refer to CDC single display operation section)

Operation

1. Press CD/DISC button to select GROM unit mode.
2. You will need to enter the "RADIO" mode of the GROM unit, *for mode changing instructions please refer to yours owner's manual of your GROM unit.*
3. Tune or seek to the next or previous station (or digital service) using Next track button. To access a HD2, HD3 or HD4 station you will need to first tune to the main station and wait until it connects to the HD signal, after you can then tune to the desired HD2, HD3 or HD4 station.
4. To save a preset you will first need to select the desired preset number by selecting preset 1-6. Once you are on the desired preset, tune to the station you want then press "Random" to save the station, you will hear a confirmation tone to let you know the station saved

*Display limitations

-Some stereos have limited display functionality and may not be able to represent station frequency properly and or station text information



2.7 Installation Troubleshooting

Symptom	Cause	Remedy
Bad reception	Bad or loose connection	Inspect the antenna connector. Check voltage at 2pin power connector, the operating voltage while the GROM unit is on should be between 12-14volts
Bad reception	Antenna placement, Window tint, Metallic windows	On vehicles with metallic windows/metallic tint you may need to move the antenna onto the top of dash or back window to see if this improves reception. If not possible or due to window design/tint you may want to contact your local professional installer to explore other antenna options.
HDR1 is not recognized by GROM unit	HDR1 is not connected properly	Check connection and cable, push in firmly. Make sure HDR1 is connected to EXT2/AUX port of GROM unit
HDR1 is not recognizing GROM unit	Outdated Firmware	To properly use the GROM HDR1 you will need to update the firmware on your GROM unit to the latest version http://gromaudio.com/software.html
Audio is ok but no stereo control	HDR1 is not connected properly	Make sure HDR1 is connected to EXT2/AUX port of GROM unit
After turning vehicle on Bluetooth audio plays instead of HD radio	This occurs if Bluetooth call or streaming was the last event when the vehicle was turned off, the GROM unit will remember the last event and start that same event on next start up	Before turning off vehicle make sure that you are not using the on a phone call or streaming audio

For questions or technical support please contact us via web form <http://gromaudio.com/support.html>

3.1 Frequently asked questions

Q. Will the HDR1 display station/song information?

A. It will only display this information if the firmware and stereo both support text display.

Q. Does this unit receive AM HD radio stations?

A. The GROM-HDR1 only supports FM HD radio at this time.

You can also view our FAQ for some tips:

<http://gromaudio.com/support/faq.html>

And please check out the video demonstrations on GROM

Youtube channel at <http://youtube.com/gromaudio>

Chapter 4. Support

For questions or technical support please visit <http://gromaudio.com/support.html> Your question will be answered within next 1 business day

CHAPTER 5 — Warranty, License Agreement and Disclaimers

6.1 THIRTY (30) - DAY MONEY BACK WARRANTY

You can return any product purchased directly from GROM AUDIO, referencing a Return Merchandize Authorization (RMA) during the Thirty-(30) day period following shipment by GROM AUDIO, may be returned for a full refund of the purchase price actually paid for any reason. The RMA number must be obtained from GROM Audio Customer Support via web form on www.gromaudio.com/support.html, and is valid for only fifteen - (15) days from its issuance. RMA must be noted on the outside of the returned PRODUCTS' packaging. The PRODUCTS must be returned in its original packaging, intact, without any evidence of tampering with the PRODUCTS or physical damage caused by the Customer (End-User). We would strongly recommend that the item be shipped insured. We are not responsible for the lost or stolen items. SHIPPING AND HANDLING OF THE END-USER IS NOT REFUNDABLE. PLEASE ALLOW UP TO TWO WEEKS FOR GROM AUDIO TO CREDIT YOUR ACCOUNT.

6.2 ONE (1) YEAR 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. GROM Audio shall not be liable for any personal injury, property damage and or any incidental or consequential damages of any kind resulting from malfunctions, defects, misuse, improper installation or alteration of this product. All parts of this product are guaranteed for a period of 1 year as follows: Within the first 12 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. All defective adapters 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. Once the RMA is requested, the customer will receive detailed return instructions, and the address for the return.

6.3 LICENSE AGREEMENT AND DISCLAIMER

GROM Audio GROM-HDR1 HD radio adapter (hereinafter referred to as 'PRODUCT') and its related software

This is a legal agreement between you, as the END USER, and GROM AUDIO ("GROM"). Please read the terms and conditions of this agreement carefully before using the GROM PRODUCTS. By using the GROM PRODUCTS and software installed on the GROM PRODUCTS, you are agreeing to be bound by the terms of this agreement. As GROM does not install this equipment, GROM disclaims any liability for improper installation of the GROM PRODUCTS or the "after-market" equipment (inputs). Furthermore, the END USER acknowledges that the PRODUCTS and software are not inherently dangerous and do not provide any inherent risks and therefore potential damages to the END USER, other than 'fitness for its purpose.' Some radio receiver models may cause you to experience some technical difficulties, if the product does not operate properly, please promptly contact THE technical department at www.gromaudio.com/support.html

6.3.1 GRANT OF LICENSE

GROM grants to you a non-transferable, non-exclusive license to use the PRODUCT and its software installed on the GROM product (the "PRODUCTS") and the related documentation solely for your own personal use or for internal use by your business, only on such GROM PRODUCTS. You shall not copy, reverse engineer, translate, port, modify or make derivative works of the Software contained in the PRODUCT. You shall not loan, rent, disclose, publish, sell, assign, lease, sublicense, market or otherwise transfer the Software in the PRODUCT or use it in any manner not expressly authorized by this agreement. You shall not derive or attempt to derive the source code or structure of all or any portion of the Software in the PRODUCT by reverse engineering, disassembly, recompilation, or any other means. You shall not use the Software in the

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6.3.2 OPERATIONAL WARNING AND SAFETY INSTRUCTIONS

IMPORTANT NOTICE: YOU SHOULD READ AND FAMILIARIZE YOURSELF THOROUGHLY WITH THE FOLLOWING INFORMATION PRIOR TO INSTALLING AND USING THE GROM AUDIO iPod adapter. FAILURE TO ABIDE BY THESE OPERATIONAL WARNINGS AND SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS BODILY INJURY OR DEATH. IN ADDITION, FAILURE TO FOLLOW THESE INSTRUCTIONS MAY VOID THE PRODUCT WARRANTY AND COULD BECOME A BASIS FOR LIABILITY ON THE PART OF THE VEHICLE OPERATOR IN THE EVENT OF AN ACCIDENT WHICH RESULTS IN INJURY TO PERSONS OR PROPERTY. UNDER NO CIRCUMSTANCES WILL GROM OR ITS IMMEDIATE AGENTS OR PRINCIPALS, BE LIABLE, FOR DAMAGES INCURRED TO THE PRODUCTS, THE VEHICLE OR ITS PASSENGERS, OR OTHER THIRD-PARTIES AS A RESULT OF FAILURE TO FOLLOW GROM INSTALLATION INSTRUCTIONS.

6.3.3 DISCLAIMER AND LIMITATION OF WARRANTIES

(A) EXCEPT AS OTHERWISE CONTAINED HEREIN, the PRODUCTS and related documentation are provided to you, "AS IS". IN NO EVENT SHALL GROM BE LIABLE FOR ANY DAMAGES, CLAIM OR LOSS INCURRED BY YOU (INCLUDING WITHOUT LIMITATION, COMPENSATORY, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES, LOST PROFITS, LOST SALES OR BUSINESS, EXPENDITURES, INVESTMENTS, OR COMMITMENTS IN CONNECTION WITH ANY BUSINESS, LOSS OF ANY GOODWILL, OR DAMAGES. THE TERM 'INCIDENTAL DAMAGES' REFERS TO THE EXPENSES OF TRANSPORTING THE PRODUCTS TO THE GROM AUDIO SERVICE CENTER, LOSS OF THE END-USERS [ORIGINAL PURCHASER'S] TIME, LOSS OF THE USE OF THE PRODUCT, BUS FARES, CAR RENTALS OR OTHER COSTS RELATED TO THE CARE AND CUSTODY OF THE PRODUCT.

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6.3.3 DISCLAIMER AND LIMITATION OF WARRANTIES CONTINUED

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(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

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6.3.4 OTHER PROVISIONS:

A. INDEMNIFICATION OF GROM AUDIO, ITS AGENTS AND EMPLOYEES. By Purchasing, Installing and Using the Products, You, the End- User, agree to indemnify, defend and hold harmless, GROM AUDIO, and its Affiliates, Directors, Officers, Agents and Employees from any Liabilities, Damage, Loss, Claim and Expense (including reasonable Attorney's Fees) arising out of the installation and use of the Products.

B. 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.

C. 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, tornados, 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.

D. 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.

6.4 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 / firmware found in car stereos, compatibility and/or controls may vary. Should you experience incompatibility issues, you may contact us via our support page.

6.5 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, PLEASE RETURN THE GROM PRODUCTS IN ORIGINAL CONDITION, AND IN ORIGINAL PACKAGE WITHIN FIVE (5) BUSINESS DAYS OF RECEIPT OF THE PRODUCTS, TO THE PLACE FROM WHICH YOU PURCHASED THEM, FOR A FULL REFUND OF THE PURCHASE PRICE OF GROM PRODUCTS.

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