



# **GROM-IPOD V3 Adapter (GROM-IPD3)**

## **Installation and operation instructions**

### **Chapter 1 – Getting Started**

#### **1.1 Subject**

The GROM iPod V3 adapter—an integration between an iPod (and iPhone) and a car stereo. The GROM iPod V3 adapter features are:

- iPod/iPhone© play, charge and control via iPod port.
- Bluetooth capability via additional EXT port and GROM Bluetooth Dongle for hands free and wireless audio streaming from your mobile phone.
- AUX-IN 3.5mm connector for many other audio devices such as XM radio, MP3 or DVD player and etc. via EXT port.
- Firmware upgradeable via micro SD card, universal adapter that fits into many car makes.

#### **1.2 Introduction**

Thank you for purchasing the GROM iPD3 adapter. It has been designed to provide endless hours of listening pleasure through most vehicles' factory radios. You will be able to control your iPod/iPhone with the car stereo buttons or steering wheel controls, and your iPod/iPhone will stay charged when connected to the car stereo. Additional EXT port will allow you to connect GROM Bluetooth Dongle or any other audio device that has 3.5mm plug. To ensure that your iPod/iPhone performs correctly in your car or truck, we recommend that you read this entire manual before attempting install the GROM interface.

#### **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 the hot airflow from your vehicle's climate control system. We recommend securing the interface to a suitable location that is free of sharp metal edges using double-sided tape, Velcro, or wire ties.

The iPod/iPhone has not been designed to withstand extreme automotive temperatures. You may damage your iPod/iPhone if you leave it inside your vehicle on a very hot or very cold day. For further information, please refer to your iPod/iPhone manual.

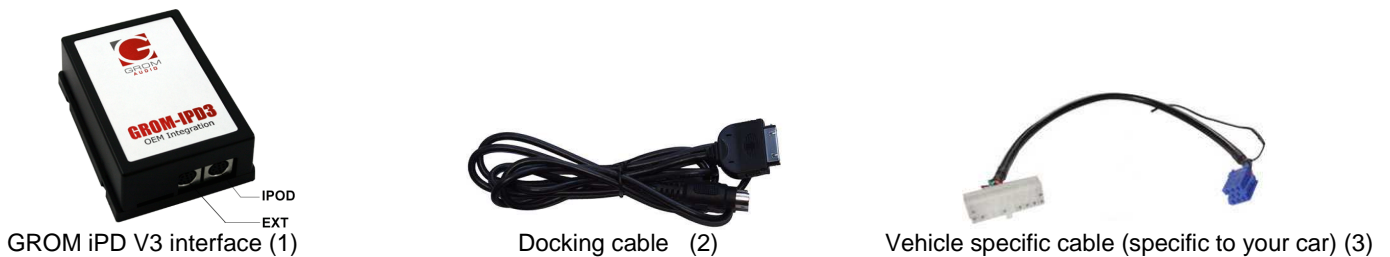
#### **1.4 Disclaimer**

- This product is not affiliated with any OEM manufacturers.
- 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 iPod adapter will function correctly if installation is not done according to the instructions provided in this guide. We also cannot guarantee that the GROM adapter will function correctly with an iPod if the iPod is broken or damaged or not supported.
- 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 Completeness and connection of set

a) The GROM audio adapter set consists of the GROM-IPD2 (iPod V2) interface, one iPod dock cable, and one vehicle-specific cable with optional accessories.



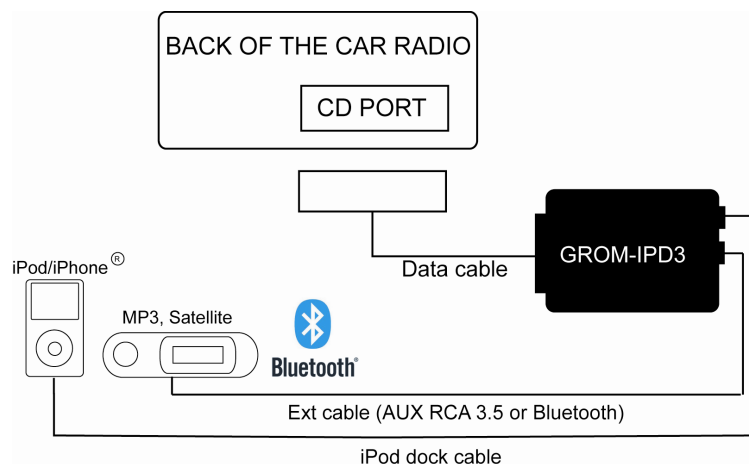
**Figure 1. Package contents**

b) The basic package does not include the optional accessories that you can purchase separately:



**Figure 2. Optional Accessories (sold separately)**

c) The basic wiring diagram of the GROM Audio iPod V2 (GROM-IPD2) adapter is detailed in Figure 3:



**Figure 3. Basic wiring diagram.**

## 1.6 Important Compatibility Notes

If your vehicle is equipped with an external factory CD changer, you must disconnect it in order to be able to install the interface. You will lose the use of the external CD changer to gain the use of your iPod, Bluetooth or MP3 player. Any built-in CD changers will remain working.

For a full version of the GROM application guide, please visit

[http://gromaudio.com/docs/grom\\_application\\_guide.pdf](http://gromaudio.com/docs/grom_application_guide.pdf)

or contact Grom Audio at <http://gromaudio.com/support.html>

## Chapter 2 – General Installation

### 2.1 Installation location:

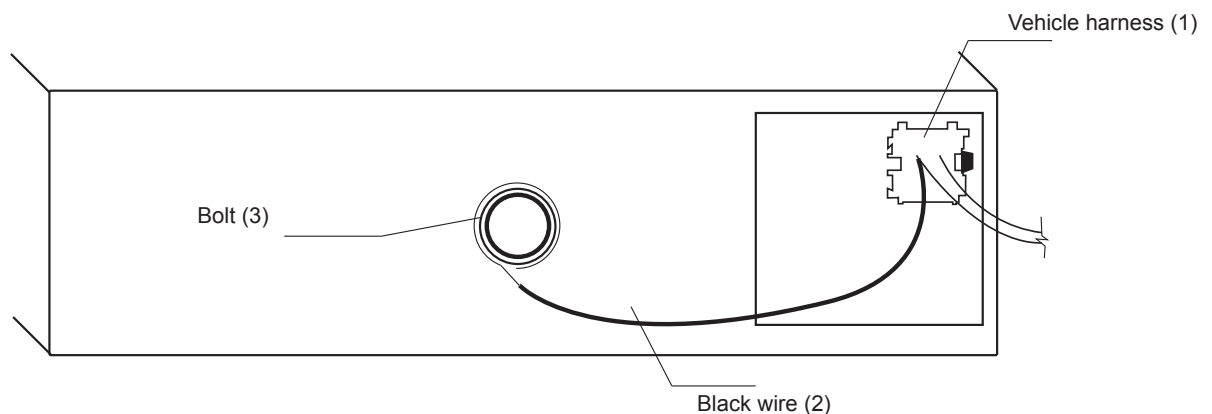
Most installations will require you to remove the factory radio in order to plug in the vehicle-specific harness. For some vehicles, you will also have the option of connecting the interface to the factory pre-run CD changer cable located in the trunk or glove box.

### 2.2 Tools needed:

In many cases, no special tools are required to remove the stereo. 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 as necessary.

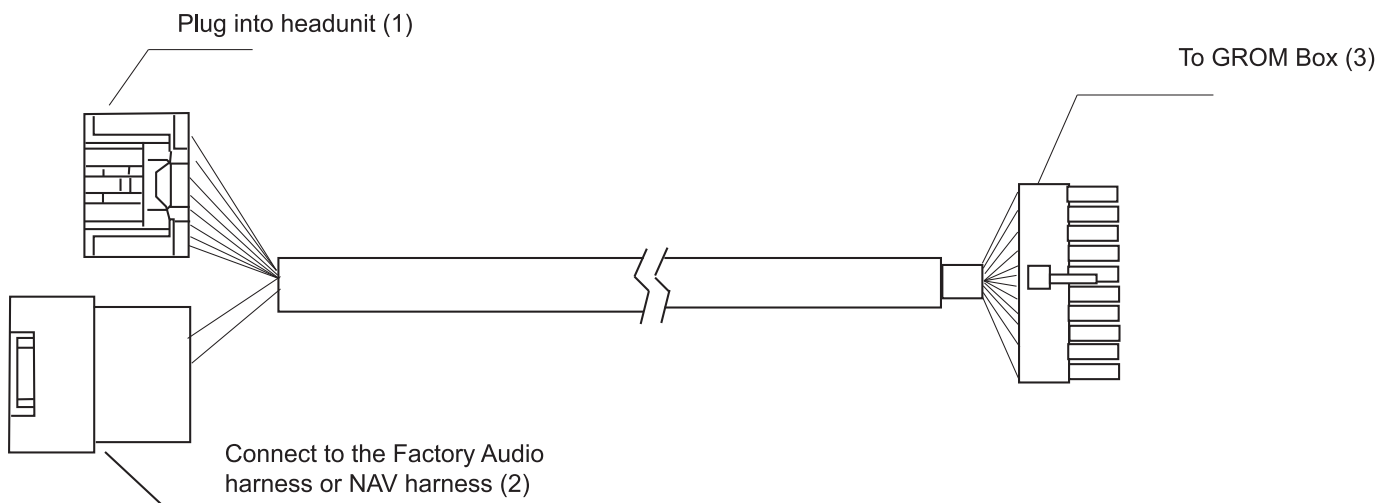
### 2.3 Preparation and adapter installation

1. Turn off car engine and remove key from ignition
2. If your radio uses a **Security Code**, make sure that you have the code before unplugging the radio.
3. Un-mount your radio from the dash in order to gain access to the back side of the radio. Some vehicles require special tools to remove the radio. Please consult your vehicle's dealership or a local car audio professional as necessary.
4. Attach the car harness connector to the back of the stereo via the CD changer port. Connect it firmly without forcing it. Connect the other end to the interface
5. **VW / AUDI / Seat / Skoda : there is a single black cable on the vehicle specific harness (3)** you will need to attach it to the metal part of the car stereo chassis. The failure to attach the black cable to the chassis of the stereo will mean that the GROM adapter will not work!



Remove the PVC from the end of the black wire (2)

- (a) Connect the end of the black wire (2) to the metal part of the car stereo chassis. You can connect it under the bolt (3) if present
  - (b) Make sure solid contact is maintained between the striped black wire and the metal part of the car stereo body.
6. **For AUDI vehicles only:** For some AUDI headunits an additional part or harness modification is required in order to gain the access to the CD changer port. The 8-pin CD changer port on such stereos is occupied by a solid 20-pin connector. Please refer to the instructions at: <http://gromaudio.com/pie-audi-how-to.html> or obtain GROM part # AUDES.
  7. **For BMW vehicles only:** Please refer to the installation insert for the special guidelines for BMW installation.
  8. **For Toyota/Honda vehicles only:**  
In some Toyota/Lexus/Scion and Honda/Acura vehicles the CD changer port is occupied with a factory harness (such as NAV or audio harness). The GROM package for Toyota/Lexus or Honda/Acura includes a Y shaped vehicle cable. In order to connect the interfaces properly please follow to the scheme below.



If the car has no NAV or XM leave the female end of the Toyota or Honda (HON1) harness open.

9. Once the interface is connected to the radio, you will need to test the operation of the interface before re-assembling the dash.
10. Turn your car stereo on and switch it to CD Changer mode using the Disc / Mode / CD / AUX buttons (depending on the stereo type) on your car stereo until it shows Disc 1, Track 01 on the display.
11. Connect the iPod cable to the iPod. Turn on the iPod. You should now hear the sound coming from the car stereo speakers.  
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**.
12. Find a place where you can place the GROM. In many cars there is enough room inside the dashboard to place GROM.  
Note: Make sure you mount the GROM in a place with enough room so that, when you re-mount the car stereo, you do not break the adapter.
13. You may use the glove box or other spaces on the dash to direct the audio cables out.

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

#### **Adapter mounting in the trunk (for VW and BMW only)**

1. Locate the trunk mounting cable in your car (usually located along the left side of the car in the back).
2. Disconnect the existing CD changer, if present.
3. Attach the matching cables

#### **Note for BMW trunk installation:**

Some BMW's are factory wired for a cellular phone. Except for wire location, the factory cellular phone connector looks identical to the factory 3-pin connector used for the CD changer. The **CORRECT** 3-pin connector for the CD changer **has a BROWN wire (ground) in the #1 pin position**. Please make certain you use this connector.

The **INCORRECT** factory cellular phone connector has a BROWN wire in the center position—**DO NOT USE THIS CONNECTOR**.

**Congratulations!** You have installed the GROM iPod adapter. You may now use it with your iPod/iPhone.

## **Chapter 3- Usage manual**

### **3.1 Supported iPods**

4th Gen iPod and newer / Nano 1st, 2nd, 3rd, 5th Gen and Nano-chromatic / iPod Video / iPod Photo / iPod Classic 1st and 2nd Gen / iPod Touch 1st and 2nd Gen / iPhone / iPhone 3G / iPhone 3GS

### **3.2 Basic features**

The GROM-iPod adapter has two modes of operation:

#### **3.2.1 Simple mode:**

iPod stays unlocked. Your iPod can be controlled via its clickwheel or via car stereo controls. The information displayed on your car stereo does **not** represent the actual song position on the iPod (the song's number). There is no need to prepare your iPod to play in this mode. The simple mode is always selectable by choosing CD1 (DISC1) from the car stereo. To switch to **advanced mode**, just select any disk other than 1. Please refer to the section 3.3 of this manual for the description of the supported operations in the Simple Mode.

#### **3.2.2 Advanced mode:**

Your iPod is locked for control and only operated via car stereo buttons. In this mode all data is synched between the stereo and iPod which allows you to see current information such as track time, number and playlist (disc) number. Text is also available for certain stereos. In order to use this mode you have to prepare your iPod as explained below.

The advanced mode is always on for disks 2-9. To switch to **simple mode** just select DISC 1

“Ok to disconnect” is shown on the iPod display while it is connected to this unit. The clickwheel of the iPod is disabled when in this mode.

Volume control is available from the steering wheel and from the car stereo controls in both modes.

### ***3.3 Supported operations in Simple Mode***

In simple mode, your iPod behaves in its usual fashion, with the clickwheel and display being functional.

The following controls are possible from the car stereo:

- **Next track**  
When pressed on the car stereo, the iPod will jump to the next song and the car stereo track number will increase by 1.
- **Previous track**  
When pressed on the car stereo, the iPod will jump to the previous song and the car stereo track number will decrease by 1
- **Fast Forward**  
When pressed, the iPod will start moving quickly through the current track.
- **Fast Reverse**  
When pressed, the iPod will start rewinding the current track.
- **Play/Pause**  
When the stereo is turned to the CD changer mode, the iPod will automatically start playing. Turning the stereo off or switching to another source (FM, AM, etc.) will cause the iPod to pause the current track.
- **Disk Change**  
When changing the disk other than 1 the iPod will switch to the Advanced Mode

**None** of the information displayed during the simple mode is related to the song currently playing. The display will show: DISC 1 TRACK xx TIME 00:00. Track information can change from 00-99.

### ***3.4 Supported operations in Advanced Mode***

In advanced mode iPod controls will be locked and the following operations will be supported:

- **Next track**  
When pressed on car stereo, iPod will jump to the next song and car stereo track number will represent song number in a current playlist
- **Previous track**  
When pressed on car stereo, iPod will jump to the previous song and car stereo track number will represent song number in a current playlist
- **Fast Forward**  
When pressed iPod will start rewinding current track forward. Time on car stereo will represent actual position within the audio track
- **Fast Reverse**  
When pressed iPod will start rewinding current track backward. Time on car stereo will represent actual position within the audio track
- **Play/Pause**  
When stereo is turned into CD changer mode the iPod will automatically start playing in simple mode at the last position it was left.

- **Scan**

Allow to skip tracks by 10 when set. Next track will jump to current track+10. Previous track will jump to current track-10. It is helpful to skip the whole album (usually ~10 songs)

- **Disk Change**

When you select Disk 2-9, iPod will stay in Advanced Mode and will resume last playing track in a playlist. Once DISK 1 is selected, iPod will switch over to **Simple Mode**

- **Mix/Random**

When turned on it will allow playing songs in a shuffle mode through the whole playlist. The track enumeration will start from 1. When switched off, track enumeration will be restored to the real order in the playlist.

- **Repeat**

When turned on, will play first track in the playlist after the last track is played.

The display will show disk number, track number and track time of the currently playing track.

### **3.5 Playlists set up for advanced mode**

To use your iPod in Advanced Mode you have to define playlists. The number of playlists depends on the stereo (usually 5-8). We recommend naming the playlists starting with the number according to the desirable disc position.

1-Andy's songs

2-Disco dance

3-Favorites

4-House rhythms

5-Smooth Jazz

"1-Andy's songs" will be mapped to Disc 2; "2-Disco dance" will be mapped to DISC 3, and so on.

Therefore selecting DISC 2 on car stereo will play "1-Andy's songs" playlist; DISC 3 will select "3-Disco songs" and so on.

**Note:** For stereos with disc ^ and disc v you may set up to 10 playlists, on some stereos up to 99.

We strongly recommend that you organize your songs into playlists and enumerate them for proper operation of this unit.

**If your iPod does not have playlists/songs it may cause unpredictable outcomes and improper operation of the unit.**

**EMPTY PLAYLISTS MAY ALSO CAUSE UNPREDICTABLE BEHAVIOURS, ESPECIALLY EMPTY PLAYLISTS THAT ARE LOCATED IN THE MIDDLE OF ALL OTHER PLAYLISTS.**

**Note for iPhone users:** Once connected to the GROM adapter, your iPhone will register a message stating "This accessory is not made to work with iPhone." It will ask if you want to "Turn ON the Airplane Mode." Please answer "NO". If the stereo still does not recognize the iPhone, please restart the iPhone

### **3.6 When the car ignition is OFF**

When you turn your car stereo or car ignition off, the iPod will automatically will go into sleep mode. In the sleep mode, the iPod will still consume power—although very little—from the car battery. There is no need to disconnect the iPod every time you turn off your car.

However, it is strongly advised that you disconnect the iPod if you do not plan to operate your car for 1 week or more.

### 3.7 Using EXT for AUX-IN on your GROM-IPD3 adapter

You can connect any alternative audio sources such as MP3 player, DVD, GPS, XM and etc. to the GROM IPD V3 adapter via GROM to RCA and 3.5mm phone jack cable (must be purchased separately, is not included in the basic package). Connect MiniDin end of the GROM RCA and 3.5mm cable to the GROM adapter. Connect 3.5mm end to the audio source. Turn ON the audio source and the stereo. Put stereo into CD changer mode. The music will start playing. We recommend that you unplug the iPod/iPhone from the dock connector if you are using the AUX-IN RCA 3.5mm cable on GROM-IPD3 adapter. If you don't unplug the iPod/iPhone and connect the 3.5mm audio source at the same time some sound interference may occur.

### 3.8 Using EXT for Bluetooth connection on your GROM-IPD3 adapter

You may connect the GROM Bluetooth Dongle to the EXT port on the GROM-IPD3 adapter for the hands free use of your mobile phone and wireless music play. Please refer to the GROM Bluetooth Dongle manual that is supplied with your Bluetooth Dongle. You can also access the manual online at GROM Audio website [http://gromaudio.com/docs/bluetooth\\_manual.pdf](http://gromaudio.com/docs/bluetooth_manual.pdf) The Bluetooth and iPod cables can be connected at the same time and work simultaneously.

### 3.9 Troubleshooting

Symptom	Cause	Remedy
No power	Bad connection	Check the cable connections.
Radio is not recognizing GROM iPod interface	Some Honda, Toyota, and Lexus car stereos have to be restarted before the radio catches the signal	After connecting the adapter turn the ignition off and back on
Radio is not recognizing GROM iPod interface	External CD changer is present	Make sure to disconnect the external CD changer
Radio is not recognizing GROM iPod interface	Bad cables or cables are not connected properly between the interface box and car radio.	Check connection and cables, push in firmly.
You can hear the music from the iPod but you can't control it from the stereo	The Firmware on the iPod may not be updated <b>or</b> iPod needs to be reset	Update the firmware on the iPod  Reset the iPod (resetting will not erase your music, it will only restart the iPod)
You can't hear the music from the iPod	An empty album or playlist is selected on the iPod  <b>or</b> No CD changer is selected	Make sure that the non-empty album or playlist is selected on the iPod  Make sure CD changer, SAT mode or AUX is selected ( correct key depends on your stereo)
The music is distorted	EQ or BASS boost options are turned ON on the iPod	Make sure all EQ and BASS boost options are turned OFF on your iPod



<b>For VAG only:</b> Radio is not recognizing GROM iPod interface	Single black wire on the vehicle specific harness (3) is not attached to the stereo chassis ( stereo body)	Attach the black cable to the car stereo body Make sure it is properly grounded
<b>For BMW only:</b> Radio is not recognizing GROM iPod interface  Audio is coming only from 1 speaker  Audio is not coming from the speakers	<b>iBus wire have come loose</b> Sometimes when using T-Tap clips, the IBus wire may not receive proper connection due to its wire size.  The 10-pin sound connector is not aligned correctly  The audio cable is not inserted properly.	Make sure the IBus wire is securely attached by using multimeter or slightly tighten the T-Tap connector so its slot is smaller.  Make sure that 10-pin sound connector on vehicle cable is aligned correctly  Make sure that the audio cable inserted properly.

### 3.10 Support

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

### 3.11 Firmware updates

We don't recommend the firmware updates unless you have been instructed by GROM Audio technical people to do so. If the firmware update is necessary please go to <http://gromaudio.com/software.html> and follow to the directions. You will need Micro SD card for that.

## Chapter 4. Warranty

### 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.

SHIP TO:

GROM AUDIO

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