

Installation Instructions

Chapter 1 – Getting Started

1.1 Subject

GROM iPod adapter - integration between MP3 player, iPod and car stereo

1.2 Introduction

Thank you for purchasing GROM iPod adapter. The GROM iPod adapter is designed to provide endless hours of listening pleasure through most vehicles factory radio. To insure that your iPod performs correctly in your car or truck, we recommend that you read this entire manual before attempting install the GROM interface.

1.3 Precautions

Updating iPod firmware

For proper operation of the GROM iPod adapter, your iPod must be updated with the most recent version of Firmware form Apple. This is done on your computer. To update the software on the iPod go to <http://www.apple.com/ipod/download/>. Follow the directions on the website to complete the download.

Proper mounting location

Securely 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. 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

Modifying the radio may void any outstanding warranty it may have.

- This product is not affiliated with any of the OEM manufactures
- There are no warranties expressed or implied by purchase of this product
- While every care has been taken to provide a quality product, we cannot guarantee the GROM iPod adapter to function correctly if installation is not done according to the instructions in this guide. We cannot guarantee the GROM adapter to function correctly with iPod if iPod is broken or damaged or not supported
- Keep your eyes on a road while driving!
- We're not liable for misuse of this product. Misuse includes improper installation, damage to the board or radio while trying to install, and illegal use of the radio

1.5 Package content



GROM iPod interface (1)

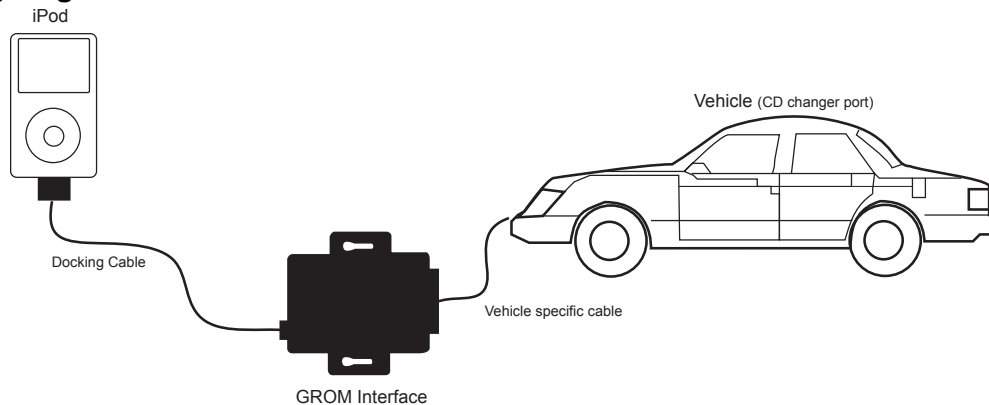


Docking cable (2)



Vehicle specific cable (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 or MP3. Build-in CD changer will remain working.

For a full version of the GROM application guide please visit

http://gromaudio.com/grom_application_guide.pdf or contact GromAudio at support@gromaudio.com

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 an option to connect the interface to the factory pre-run CD changer cable located in the trunk.

2.2 Tools needed:

In many cases there are no any 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.

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 get access to the back side of the radio. Some vehicles require the special tools to remove the radio. Please consult your vehicle's dealership or a local car audio professional if necessary.
4. Attach the car harness connector to the back of the stereo to the CD changer port. Be sure to make a firm connection but do not force it. Connect the other end to the interface.
5. **If there is a black single cable on the vehicle specific harness (3)** you will need to attach it to the back bolt of the car stereo.

Note: Without attaching the black cable to the chassis of the stereo GROM adapter will not work!

6. **For AUDI vehicles only:** For some AUDI headunits the additional part required in order to gain the access to the CD changer port. Please refer to the instructions on that webpage:
<http://gromaudio.com/pie-audi-how-to.html>
7. **For BMW vehicles only:** Please refer to the installation insert for the special guidelines for BMW installation.
8. Now that the interface is connected to the radio, you will need to test the operation of the interface before re-assembling the dash.
9. Turn you car stereo on and switch it over to CD Changer mode. It should show Disk 1, Track 01 on a display.

Note: On most Lexus, Toyota and some Mazda cars after turning your stereo on you have to turn ignition off and then on for device to work.

10. Connect the iPod cable to the iPod. Turn on the iPod-. Now you should hear the sound coming from the car stereo speakers.

With the operation of the interface confirmed, you may continue with the installation. If you experience difficulties with the installation, please see our **troubleshooting section**.

11. Find a place where you can place GROM. In many cars there is enough room in the dash to place GROM.

Note: Make sure you mount GROM in a place with enough room so when you mount the car stereo back you do not break the adapter.

12. You may use glove box or other spaces in a dash to direct Audio cables out.
13. Mount your car stereo back into the dash, make sure it's clips are securely fastened

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

1. Locate trunk mounting cable in your car
2. Usually it is located at the left side of the car in the back
3. Disconnect existing CD changer if any
4. Attach audio cable and trunk cable

Congratulations! You have installed GROM iPod adapter and you may use it right away with your iPod.

Chapter 3- Usage manual

3.1 Supported iPods

All iPods 2G and up (latest firmware recommended)

3.2 Basic features

GROM-IPOD adapter has 2 modes it can operate in.

- 3.2.1 Simple mode:** iPod can be controlled via clicking wheel and stereo controls. Information on car stereo is **not** accurate and does **not** represent the actual song. There is no need to prepare your iPod to play in this mode. Simple mode is always selectable by choosing CD1 (DISK1) from the car stereo. To switch to **advanced mode** just select any disk that is different from 1
- 3.2.2 Advanced mode:** iPod is locked for control and only operated via car stereo buttons. In this mode all data is synced between stereo and iPod. Allow you to see song text info (where available) and other information such as track number, playlist number etc. In order to use this mode you have to prepare iPod as explained below. Advanced mode is always on for disks 2-9. To switch to **simple mode** just select DISK 1

3.3 Supported operations in Simple Mode

In simple mode iPod behaves in the usual fashion when click wheel and display is functional. The following control is possible from the car stereo:

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

All information displayed in simple mode is **not** related to the song currently playing. The display will show: DISK 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 to play 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.

3.5 Playlists set up for advanced mode

To use iPod in Advanced Mode you have to define up to 8 playlists (on most stereos only 5).

There is no need to name playlists in a certain way. The only thing that matters is the position of the playlist on your iPod. All playlists are enumerated from the very beginning of the list and numbers are assigned according to the position.

For instance if you have playlists defined like:

Andy's songs

Disco dance

Favorites

House rhythms

“Andy’s songs” will be mapped to the disk 2, “Disco dance” will be on disk 3 and so on.

Therefore selecting DISK 2 on car stereo will play “Andy’s songs” playlist, DISK 3 will select “Disco songs” and so on.

3.6 Troubleshooting

Symptom	Cause	Remedy
No power	Bad connection	Check the cable connections.
Radio is not recognizing GROM iPod interface	Some Mazda, Toyota, Lexus car stereo have to be restarted before the radio catches the signal	After connecting the adapter turn the stereo on, and then turn the ignition off and back on
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.
For VAG only: 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)	Read paragraph 2.3 p. 5 of this guide. Attach the black cable to the car stereo body.
For BMW only: Radio is not recognizing GROM iPod interface	iBus wire may get loose Sometimes using T-Tap clips, the IBus wire may not receive proper connection due to its wire size.	Make sure the IBus wire is securely attached by using multimeter or slightly tight up the T-Tap connector so its slot get smaller.
You can hear the music from iPod but you can't control it from the radio	The Firmware on the iPod may not be updated.	Update the firmware on the iPod

Support

For all technical questions please e-mail to info@gromaudio.com. For technical support please visit <http://gromaudio.com/support.html> and fill in the web form.

Your question will be answered within 24 hours.

3.7 Manufacturer Warranty

One 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.

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 1 year as follows:

Within the first 12 months form 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.

Designed, tested and assembled in USA, some parts manufactured in China

For product information, questions or customer service please email: info@gromaudio.com