

GROM-IPD4

iPhone® iPod® Android® Adapter Kit

Optional Bluetooth and AUX-In extensions



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GROM
AUDIO

Car Audio
Integration Solutions



GROM-IPD4 car stereo adapter kit

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Chapter 1 – Introduction

1.1 Subject

Thank you for purchasing the GROM-IPD4 adapter. It has been designed to provide endless hours of listening pleasure through most vehicle factory stereos. To ensure that your GROM-IPD4 interface performs correctly in your vehicle, we recommend that you read this entire manual before attempting to install the GROM interface.

1.2 Functionality Highlights

- Easily access your media collection in your car, including shuffling songs, skipping between tracks, and adjusting the volume—all with only your factory car stereo head unit or multifunction steering wheel controls (where applicable).
- **Android® phone** (most supported) play, charge and control through USB port via standard USB to Android cable.
- **iPod®/iPhone®/iPad®** play, charge and control via standard USB to iPod cable (supports both 30-pin and Lightning style connectors).
- **Bluetooth or AUX-IN** integration. To get AUX-IN you will need GROM MiniDin to 3.5mm audio and 5V USB charging cable, to get the **Bluetooth** hands free and wireless functionality you will need GROM-BTD Bluetooth Dongle (both sold separately).

1.3 Main Features in iPod/iPhone (USB) Mode

- Ability to play, charge and control iPod/iPhone – all using your factory car stereo.
- Playlists on the iPod/iPhone are mapped to an individual “Disc” button on car stereo’s dashboard (different for SAT emulation – please refer to your installation manual).
- Number of “discs” limited to the car stereo (up to 99 on select stereos)
- Last listened song position within the playlist is remembered (may not apply to some iPod/iPhone/iPad)
- Last listened song time position is restored upon ignition cycle (may not apply to some iPod/iPhone/iPad)

1.4 Main Features in Android (USB) mode

- Ability to listen to songs in car from Android phone (using free AALinQ app for Android from Google® Play Store).
- Ability to control music from car stereo or steering wheel buttons.
- Play lists on Android phone (AALinQ app) are mapped to an individual “Disc” button on car stereo’s dashboard (different for SAT emulation – please refer to your installation manual).
- Number of “Discs” limited to the car stereo (up to 99 on select stereos).
- Last listened song position within the Playlist is remembered and time position is restored upon ignition cycle.
- Android phone is charged while in car (0.5Amp charging speed due to the Android software limitation*).

1.5 Bluetooth Hands Free and Wireless Audio, AUX-IN Features

- With hands free (HFP) you can receive the phone calls through the factory car stereo, answer or reject the phone calls using car stereo or steering wheel controls, speak to the other person using microphone provided with GROM Bluetooth Dongle.
- Wireless music play from your phone to the factory car stereo (A2DP), control the music or Pandora® internet radio with the car stereo or steering wheel buttons (AVRCP).
- AUX-IN 3.5mm audio connector for any audio source, and additional 5V charging port.

1.6 Precautions

Proper mounting location securely installs 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°C to +70°C (-24°F to +158°F)

1.7 Disclaimer

- This product is not affiliated with any of the OEM manufacturers

- Modifying the stereo may void any existing warranty
- The purchase of this product carries no warranties, either expressed or implied
- GROM Audio has confirmed the listed stereo and vehicle application to the best of our ability. Due to uncontrollable factors and various factory options, GROM Audio cannot 100% guarantee every listed application. These factors include variables such as inconsistencies within a factory stereo, factory stereo models unknown to GROM Audio and any partial model year changes.
- Keep your eyes on the road while driving!
- We are not liable for the misuse of this product, including improper installation, damage to the board or stereo during installation, and the illegal use of the stereo

1.8 Completeness and connection of set

a) The GROM audio adapter set consists of the GROM-IPD4 main interface, one automotive grade USB cable 3FT extension cable, and one vehicle-specific cable.



Figure 1. Package contents

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

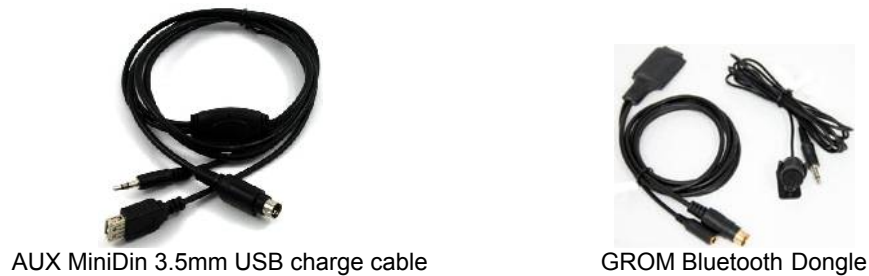
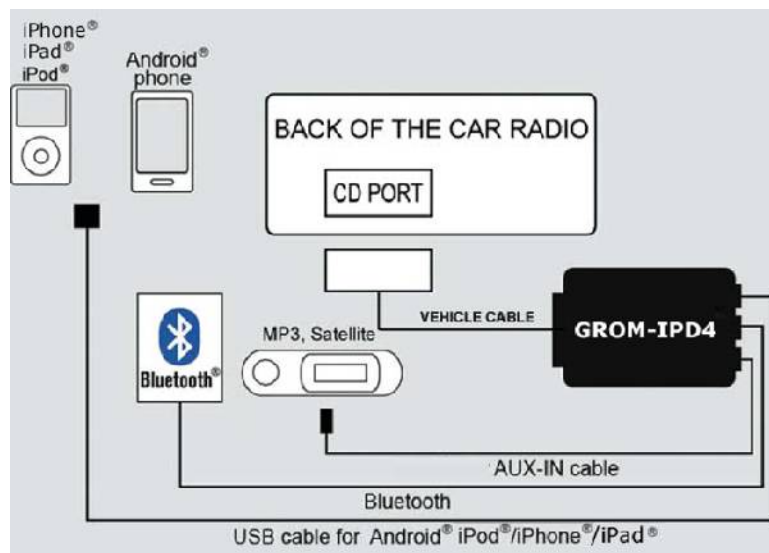


Figure 2. Optional Accessories (sold separately)

c) The basic wiring diagram of the GROM Audio adapter is detailed in **Figure 3 below** (some installs may differ):



1.9 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 GROM interface. You will lose the use of the external CD changer to gain the use of your iPod, iPhone, Android, Bluetooth or MP3 player. The built-in CD changer will remain operational. SAT if present may need to be disconnected in some case.

- If your vehicle has factory SAT and GROM adapter is using SAT emulation, you must disconnect factory SAT to gain the use of your device, iPod, Bluetooth or MP3 player. This is applicable to Nissan/Infiniti with SAT emulation, Honda/Acura 03 and up with SAT emulation, Ford/Lincoln/Mercury, Mazda 3,5 08-09 and Subaru 07-09. For a full version of the GROM compatibility guide, please visit http://gromaudio.com/grom_application_guide.pdf or contact GROM Audio at <http://gromaudio.com/support.html>.

1.10 USB/EXT1/EXT2 ports

It is recommended for you to use **GROM automotive grade USB extension cable**. It will ensure better connection using the latch system that withstands the moving vehicle conditions. In addition it will prevent the wear-out of USB port on GROM-IPD4 adapter.

Please refer to the Figure below for the proper connection of the accessories to the EXT1/EXT2 ports on GROM-IPD4 module.

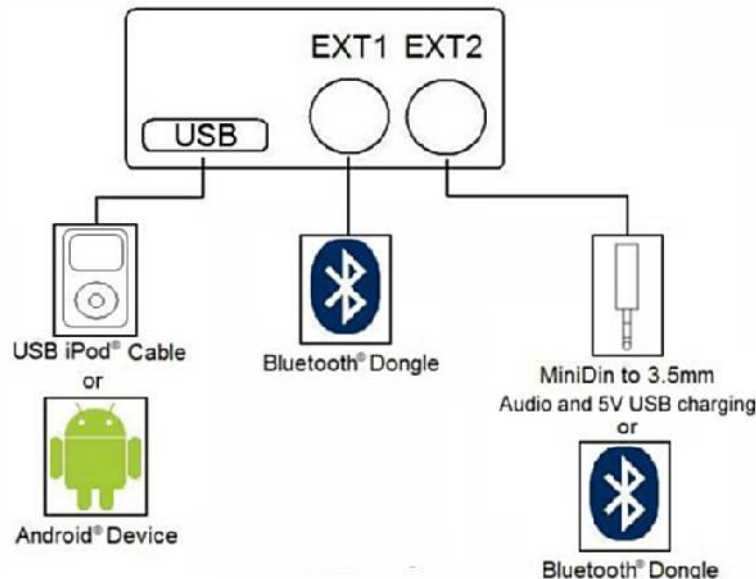


Figure 4. EXT ports, accessories connection.

Chapter 2 – General Installation

2.1 Installation location

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

2.2 Tools needed

In most cases, there are no special tools required in order to remove the stereo. For some stereos (e.g., VW, Audi), 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. If you are unsure how to install the interface properly, we recommend contacting your local car stereo shop for assistance. Some installation examples can be found at www.gromaudio.com.

2.3 Preparation and adapter installation

1. Turn off car engine and remove key from ignition

2. If your stereo uses a Security Code, make sure that you have the code before unplugging the stereo.
3. Remove your stereo from the dash in order to gain access to the back of the stereo. Some vehicles require special tools to remove the stereo. Please consult your vehicle's dealership or a local car audio professional, if necessary.
4. Attach the car harness connector to the CD changer port in the back of the stereo. Be sure to make a secure connection with no bent pins, but do not force it. Connect the other end to the interface.

For VW/Audi/Seat/Skoda with dashboard cable only:

There is a black single cable on the vehicle-specific harness (Figure 5) that you will need to attach to the back bolt of the car stereo or the stereo chassis stereo.

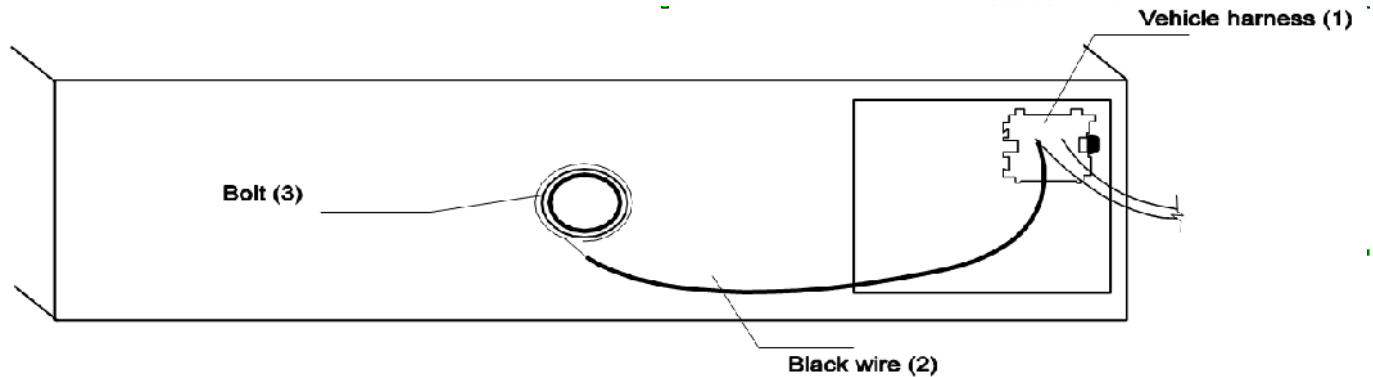


Figure 5. VW/Audi/Seat/Skoda Connection Scheme

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

- 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 it is present
- Make sure that solid contact is made between the striped black wire and the metal part of the car stereo body.
- **Note: Failure to attach the black cable to the chassis of the stereo will result in the GROM adapter not working! All of the specified vehicles require this black cable to be attached.**

5. For Audi vehicles only: Some Audi head units require an additional part (AUDS cable) or harness modification to gain the access to the CD changer port. A solid 20-pin connector occupies the 8-pin CD changer port on such stereos. Please refer to the instructions at <http://gromaudio.com/docs/grom-audi-how-to.html> for more information.

6. For BMW behind the stereo, Ford, Nissan, Infiniti, Volvo, Mazda 08-12, Mitsubishi vehicles only: Please refer to the installation insert for the special guidelines for BMW, Ford, Nissan, Volvo and Mazda installation.

7. For Toyota and Honda (03 and up) vehicles:

On some Toyota/Lexus/Scion vehicles and Honda/Acura (03 and up) vehicles, the CD changer port is occupied by a factory harness (such as NAV or audio harness). The GROM package for Toyota and for Honda/Acura (HON1) includes a Y-shaped vehicle cable. In order to connect the interface properly, please refer to Figure 6. If stereo port is already empty, simply plug GROM cable into stereo.

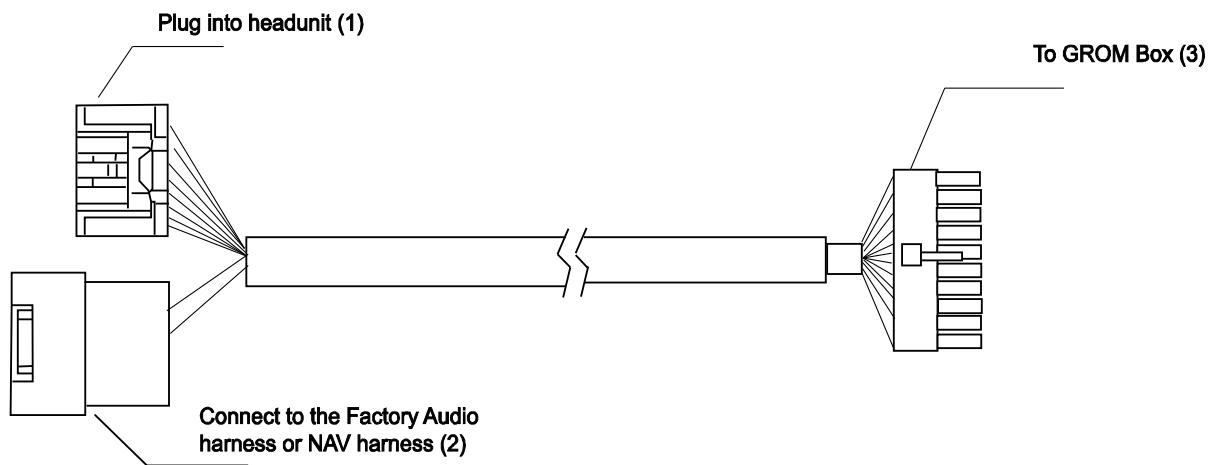


Figure 6. Connection Toyota/Lexus/Scion and Honda/Acura

8. Turn your car stereo on and switch it over to CD Changer mode using the Disc/Mode/CD/AUX buttons on your car stereo (depending on the stereo type). You may have to press CD/Disc twice to access CD Changer mode. Your display should now show Disc 1, Track 01 or similar.

9. Connect the USB cable to the USB device. Turn on your car stereo and play some music from your USB device (folders need to be setup). You should hear the sound coming from the car stereo speakers.

10. Once you confirmed the operation of the interface, continue with the installation. If you have trouble with the installation, please see our troubleshooting section.

11. Find a place for the GROM-IPD4 adapter. In many cars, the dash offers sufficient room for installation.

Note: Make sure you mount the GROM-IPD4 adapter in a place with sufficient room so that, when you remount the car stereo, you do not break the adapter. We strongly recommend you mount unit in easy access location

12. You may use the glove box or other spaces on the dash to direct the USB cables away from the unit.

13. Remount your car stereo, making sure it fits securely.

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

- Locate trunk mounting cable in your car (usually located in the left side of the car in the back)
- Disconnect existing CD changer, if any.
- Attach matching cables

Note for BMW trunk installations: Some BMW are factory wired for the 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 adapter and may use it immediately with your iPod/iPhone/iPad or Android Device.

2.4 Installation Troubleshooting

Symptom	Cause	Remedy
Stereo is not recognizing the GROM-IPD4 adapter	Some Honda, Toyota, and Lexus car stereos have to be restarted before the stereo catches the signal	After connecting the adapter, turn the stereo on; turn the ignition off and then back on
Stereo is not recognizing the GROM-IPD4 adapter	External CD changer is present	Make sure to disconnect the external CD changer

Symptom	Cause	Remedy
Stereo is not recognizing the GROM-IPD4 adapter	Bad cables or cables are not connected properly between the interface box and car stereo.	Check connection and cables making sure they are secure with no bent pins.
No music is audible from the MP3 player	CD changer is not selected	Make sure CD changer, SAT mode, or AUX is selected (correct key depends on your stereo)
No power	Bad connection	Check the cable connections.
For VAG only: Stereo is not recognizing the GROM-IPD4 adapter	Single black wire on the vehicle-specific harness is not grounded properly.	Make sure black cable is properly grounded
For BMWs (dash install) only: Stereo is not recognizing the GROM-IPD4 adapter	Bus wire may have become loose. Sometimes, when using Posi-Tap clips, the Bus wire may not receive proper connection due to its wire size.	Make sure the Bus wire is securely attached by using a multimeter or slightly tighten the Posi-Tap connector. Refer to the BMWs cable manual.
Audio is not coming from the speakers.	10-pin audio cable on BMWs harness is not inserted properly.	Make sure that the 10-pin audio cable on BMWs harness is inserted properly, with white stripe or arrow facing up. If radio has 12-pin connector, make sure to skip "1" column of pins when connecting 10-pin GROM connector.
Audio is coming only from one speaker	The 10-pin sound connector is not correctly aligned.	Make sure that the 10-pin sound connector on the vehicle cable is correctly aligned. Please refer to the BMWs harness manual.

Chapter 3 – Usage manual

3.1 Different MODES of GROM-IPD4

3.1.1 Different MODES of GROM-IPD4 (for CD changer emulation only!)

Please read this part entirely before attempting to change the modes. You will need to perform all the steps below quickly within 1-2 seconds interval.

Depending on your GROM firmware version, GROM-IPD4 can work in two modes: USB or AUX (EXT2).

Step I. When you need to switch between the MODES, first you will need to enter into the "MODE CHANGING" state on your car stereo. There are two possible scenarios:

1. The stereo is already in the CD changer mode (GROM-IPD4 is activated). **Press FM/AM -> wait 1-2 second -> press CD (DISC).**
2. The stereo is in any other mode (FM, SAT, etc...): **press CD (DISC) -> wait 1-2 second -> press FM/AM -> wait 1 second -> press CD (DISC).**

Step II. You will hear the voice announcing the currently playing mode (USB or AUX). To switch to the next mode, press **Next Track** button quickly (>, ^ or respective button on your car stereo) while the voice prompt is announcing. The next mode will be announced right after. If you need to select another mode, simply press **Next Track** button again and so on until you select the desired mode.

Note: *If you do not hear the voice announcement, it means that you did not press quickly enough and the adapter is not in the "MODE CHANGING" state anymore. Please perform STEP I again.*

Once you hear the desired mode announcement, simply wait for 1-2 seconds and the adapter will start operating in that mode.

3.1.2 Different MODES of GROM-IPD4 (for SAT emulation only!)

Please read this part entirely before attempting to change the modes.

Depending on your GROM firmware version, GROM-IPD4 can work in two modes: USB or AUX (EXT2).

Step I. When you need to switch between the MODES, Simply move to the next SAT band.

i.e. **XM1 -> XM2** or **XM preset A -> XM preset B -> XM Preset C** or **SAT1-> SAT2 -> SAT3**

Step II. You will hear the voice announcing the currently playing mode (USB or AUX). If you need to select another mode, simply switch to next XM/SAT preset Band again, i.e. **XM2 -> X1** until you are in the mode you would like to be in.

Once you hear the desired mode announcement, simply wait for 1-2 seconds and the adapter will start operating in that mode.

Note: *The USB mode and/or AUX mode is not restricted to just one Satellite Radio Band. (i.e. XM1 only USB) Both can flip places with each other while changing through the modes. Please listen for the announcement to know what MODE you are in.*

NOTE: If your car is Nissan/Infiniti (with SAT/CAT), Ford/Lincoln/Mercury, Mazda 3,5 08-12, Subaru 08-09, or Honda/Acura with **SAT emulation** – please use the special instructions that came with your package for the **usage/operation instructions**.

3.2 USB iPod/iPhone/iPad MODE Operation

The GROM adapter has two modes of iPod/iPhone/iPad operation:

A. 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/iPhone/iPad 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 disc other than one. Please refer to the section 3.9.1. of this manual for the description of the supported operations in the Simple Mode. Text is also available for certain stereos.



B. Advanced mode:

Your iPod/iPhone/iPad is locked for control and only operated via car stereo buttons. In this mode all data is synced 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.

Note: iPhone/Pod touch/iPad with newer than iOS7 **will not lock out** in Advanced Mode.

3.2.1. SIMPLE MODE

In simple mode, your iPod/iPhone/iPad music player 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 one number (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 one number (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.) or MODE (USB, AUX) 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.

3.2.2. 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 Disc 2-9, iPod will stay in Advanced Mode and will resume last playing track in a playlist. Once DISC 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.

3.2.3 PLAYLIST 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:

1- Andy's songs

2-Disco dance

3-Favorites

4-House rhythms

5-Blues

“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 “2- Andy’s songs” playlist, DISC 3 will select “3- Disco songs” and so on.

Note: Depending on your stereo, you may set up from 5 to 99 playlists.

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.

All iPod/ iPhone/iPad models are compatible with GROM-IPD4.

3.2.4 WHEN CAR IGNITION IS OFF

When you turn your car stereo or car ignition off, the iPod/iPhone/iPad will automatically will go into sleep mode. In the sleep mode, the iPod/iPhone/iPad 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 long periods of time.**

3.2.5 IPOD/IPHONE/IPAD OPERATION TROUBLESHOOTING

Symptom	Cause	Remedy
No music is coming from car speakers	GROM-IPD4 is in the wrong mode	Make sure that the correct mode (USB or AUX) is selected. Please refer to step 3.1 of this manual
No music is coming from car speakers	The music player is off	Turn on the music player on your device
You can't hear the music from the iPod	An empty album or playlist is selected on the iPod	Make sure that the non-empty album or playlist is selected on the iPod

3.3 USB MODE - Android Operation

3.3.1 Android Setup and Operation



The GROM-IPD4 adapter when in USB mode allows you to connect your Android device directly to the GROM USB port. **Scan QR code with your phone to download AALinQ app from Google Play store.** AALinQ is the free app that allows you to integrate your Android phone to car stereo. Play and control, charge while in use. Digital music transmission via standard MicroUSB cable. Once you have AALinQ installed on your Android device, you can connect your Android to the USB port using your own or provided USB Android connector cable. If the version of your Android software is 2.3 and newer, you may or may not need to have USB Debugging enabled to

allow AALinQ to communicate between your Android and the GROM-IPD4. **If AALinQ does not work with the USB Debugging OFF, try to toggle to it ON.** If the version of your Android software is older than 2.3, you will need to enable USB Debugging function on your phone.

- To enable/disable USB Debugging, on Android device go to Settings → Applications → Development
- Once you connect your Android device to GROM-IPD4 and the GROM unit is in USB playback mode, AALinQ should automatically start playing a song from your Android device. (first time connection message will appear, "Use by default for this USB accessory" please check mark this option.)
- Android Playlists on AALinQ will be mapped to discs on the stereo. Skip tracks, change disc, fast forward, random, scan controls are identical to USB controls. Text of current song is displayed for stereos that support text for GROM mode.
- **Disc 1 will play On The Go playlist on the AALinQ app. Disc 2 or higher are your regular playlists.**
- The files are played in ascending order of the file creation date/time.
- The playlists are sorted in ascending order of the playlist creation date/time, and assigned to a respective virtual disc.
- AALinQ can be controlled using the screen of your phone or car stereo/steering wheel controls. It also responds to the gestures. To check what gestures are available go to AalinQ → Settings → Gestures.
- Song/Track info is supported on selected stereos

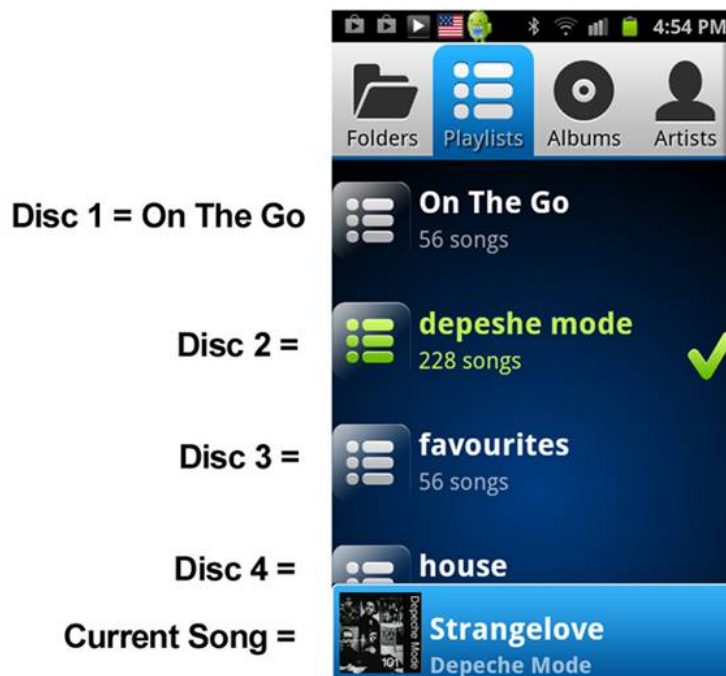


Figure 7. Android operation

3.3.3. USB Audio Streaming is available for most Android devices with Jelly Bean and newer, Android (4.1+) software. In the case of USB Audio Streaming you will be able to use the media player of your choice, or stream the music through any Android music apps, such as Pandora, TuneIn, Spotify and so on.

- To Stream from other Application, In AALinQ Application, select “Exit” to exit out of AALinQ application. Once AALinQ app is closed, open other music application you wish to listen to and music should play through stereo instead of phone speakers.
- USB Streaming supports Track (previous/next) control from the stereo control buttons.
- USB streaming does NOT support display of Song/Track info.
- **Some HTC model phones are known NOT to support USB Audio streaming.**

3.3.2 Android Operation Troubleshooting

Symptom	Cause	Remedy
No music is coming from the car speakers or sound is distorted	GROM-IPD4 is in the wrong mode	Make sure that you are in the USB playback mode
You can't hear the music in AALinQ	An empty album or playlist is selected on the AALinQ	Make sure that you select a playlist that has songs and it is not empty.
Music is not playing	You do not have USB Debugging enabled	To enable USB Debugging, on Android device go to Settings → Applications → Development

3.4 AUX Mode -- AUX-IN or Bluetooth Operation

3.4.1 AUX-IN input

You can connect any audio source via GROM MiniDin to 3.5mm phone jack cable (please refer to the section 1.6 of this manual, “optional accessories”). The GROM 3.5mm cable connects to the EXT2 port on the GROM-IPD4 adapter and provides AUX-IN for any audio device. The charging USB connector on the GROM auxiliary cable (if available) provides 5V USB charging for most mobile devices.

To start using GROM as the auxiliary adapter, simply connect your audio source to the 3.5mm phone jack and then turn the audio source ON. You are using EXT2 for GROM AUX cable. Your stereo should be in the **AUX** GROM mode. Please refer to the Chapter 3.1 of this manual on the MODE changes.

If the stereo is ON and in the CORRECT MODE – the device will be ready to play. You can control the connected device using its own controls. Please regulate and adjust the volume on the connected device for proper audio levels.

You can connect MP3/DVD player, Satellite and many other audio devices that have 3.5 mm plug. If your device has a different type of connector (RCA, 2.5mm, etc.) you can buy an extension adapter at your local stereo store or on GROM website.

Note: When the ignition is OFF the adapter will not automatically shut down the AUX-IN device. Please make sure to turn off the AUX-IN audio source manually. If you plan not to operate your car for one week and more, please disconnect AUX-IN audio source from the adapter. When you are using GROM-IPD4 in a different mode other than AUX, please turn off AUX-IN audio source.

Please make sure to connect GROM MiniDin to 3.5mm phone jack cable to the correct Extension port (EXT2) on GROM module.

3.4.2 BLUETOOTH Dongle – EXT1 port

You can also connect GROM Bluetooth Dongle to the **EXT1** or **EXT2** port on the GROM-IPD4 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



Note: There is not a select-able Bluetooth MODE when going through the changing of GROM modes. When Bluetooth A2DP (advanced audio distribution profile) music starts playing, other audio will mute/pause automatically and A2DP will play. When Bluetooth A2DP music playback is stopped on your phone, previously selected source will resume playback.

3.5 USB charging of Android phone via GROM USB port

The USB port of the GROM unit itself can supply up to 1.5 Amp of power, yet Android charging while playing through USB connection is at 0.5amp limitation maximum.

Why does it happen?

Charging (USB) vs. Charging (AC)

When Android device is connected to USB of GROM unit it provides data communication between the two. This data connection is necessary and tells the phone to charge in USB mode speed which is rated at 0.5 amp. This is similar to plugging Android device into USB port of computer. This will show up as "USB" charging in Battery settings of phone.

A typical AC wall USB charger or car charger designed for charging Android device are rated at 1-2 Amp depending on the device. It also has two data wires shorted together to let phone know it is a "AC" charger and to charge at full speed 1.0+ amp. This will show up as "AC" charging in Battery settings of phone.

It is not possible for these data wires to be sorted in the USB port of the GROM as then there will be no way for the the GROM to communicate with the connected device. It is a **limitation of the phone software design** not allowing quicker charger when there is data communication line.

All GROM and Android devices conform with USB 2.0 specification.

What to do?

We recommend not to have Android device screen on at high brightness or screen on at all to allow the phone to take advantage as much as possible of the 0.5 amp that it is charging at while playing through Android device connected to USB port of GROM unit for AALinQ and/or USB Streaming and operation.

GROM adapter will charge the iPhone or iPod at 1 amp speed.

Chapter 4 – Support

For technical support please visit us at <http://gromaudio.com/support.html> and fill out the form. Someone will get back to you shortly. You can chat with us live on the www.gromaudio.com website Monday through Friday 9am-5pm PST.

Please check our FAQ at <http://gromaudio.com/support/faq.html>, videos and installs at <http://www.gromaudio.com/installs/index.html>

Chapter 5 – Warranty

5.1 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.

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 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 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.

WITHOUT RMA NUMBER THE RETURNS ARE NOT ACCEPTED!

5.2 LICENSE AGREEMENT AND DISCLAIMER

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PARTY TO ILLEGALLY ATTEMPT TO REMOVE THE PRODUCTS AND AFTER-MARKET EQUIPMENT. GROM DISCLAIMS ANY LIABILITY RELATED TO SUCH THEFT AND POTENTIAL DAMAGE TO PROPERTY. IT IS THE END-USERS RESPONSIBILITY TO PROTECT ITS OWN PROPERTY. THE END-USER FURTHER ACKNOWLEDGES THAT THE OPERATION OF A MOTOR VEHICLE IS AN INHERENTLY DANGEROUS ACTIVITY, AND BY ITS USE OF GROM'S PRODUCTS, ACKNOWLEDGES THAT THE PRODUCTS ARE REMOTELY RELATED TO SAID MOTOR VEHICLE OPERATION, AND THUS ANY DAMAGES CAUSED TO THE DRIVER OF THE VEHICLE, THE VEHICLE ITSELF OR ANY THIRD-

PARTY AND ITS PROPERTY IS NOT THE RESPONSIBILITY OF GROM, ITS AGENTS OR ITS PRINCIPALS AND IS THE SOLE RESPONSIBILITY OF THE DRIVER OF SAID VEHICLE.

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.

5.5 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, tornado, 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.

5.6 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 / 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.

5.7 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 DIRECT 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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