GROM-MST3 PLUS

MP3 USB Android car stereo adapter kit
for fiber-optic stereos

Optional Bluetooth, AUX-in and iPod/iPhone extensions

INSTALL MANUAL



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Chapter 1 - Introduction

1.1 Subject

Thank you for purchasing the GROM-MST3P adapter. It has been designed to provide endless hours of listening pleasure through factory stereos of the vehicles with fiber-optic MOST Transport technology, such as BMW, Mercedes Benz, Volvo and AUDI. To ensure that your GROM-MST3P 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.
- Listen to your favorite music directly from virtually any USB mass storage device, flash stick or portable hard drive, requiring no dedicated media player.
- **Android® phone** (most supported) play, charge and control through USB port via standard USB cable.
- **iPod®/iPhone®** play, charge and control via additional IPod cable (sold separately).
- **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 USB or Android Phone Mode

- Ability to listen to songs in car on USB mass storage device (such as flash drive) or Android phone (using free AALinQ app from Google® Play Store).
- Ability to control music from car stereo or steering wheel buttons.
- Folders on the USB drives are mapped to an individual “Disc” button on car stereo’s dashboard. Playlists on Android phone are mapped to discs. Browsing by Album, Artist, Genre is available on BMW iDrive stereos.
- 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.

1.4 Main Features in iPod/iPhone Mode (with GROM compatible iPod connector cable, which is sold separately):

- 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)
- Last listened song time position is restored upon ignition cycle (may not apply to some iPod)

1.5 Bluetooth Hands Free and Wireless Audio, AUX-IN Features (with GROM Bluetooth Dongle or AUX cable, which are sold separately as the optional accessories):

- 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 install the interface in a location free from heat, humidity, moving parts, or direct sunlight. Beware of hot-air flow from your vehicle's climate control system. The interface should be secured in a suitable location, free of sharp metal edges, using double-sided tape, Velcro, or wire ties. The adapter's operating temperature range is -30°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-MST3 PLUS main interface, one USB cable, one fiber-optic connector and P-Tap, and one 2GB USB stick.







1. GROM-MST3P interface 2.One USB cable 3. One fibre-optic POF cable*

* The POF cable is not included for Volvo XC90 2002-2006 package as you will use the existing CD changer connector.

Figure 1. Package contents

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



GROM compatible iPod cable



AUX MiniDin 3.5mm USB charge cable



GROM Bluetooth Dongle

Figure 2. Optional Accessories (sold separately)

Chapter 2 – General Installation

2.1 Programming the car for GROM-MST3 PLUS

BMW non iDrive

- If original CD changer fitted and MP3 capability is available: no programming is required.

- If original CD changer fitted and no MP3 capability is available, you will need to retrofit “KMP3” option with service computer

- If original CD changer not fitted or M-ASK used: install GROM-MST3P and retrofit “CDC” option with service computer.

BMW with iDrive

- If original CD changer fitted: no programming is required.

- If original CD changer not fitted: install an original BMW CD changer and retrofit “CD changer” option temporarily with service computer.

Mercedes and AUDI

Generally no programming is required but in some cases (e.g. no device was connected onto the optical ring) it is needed to enable a CD changer with the service computer.

Volvo

No programming is required. Some cars need security component feature to be disabled in order for GROM to work. You will need to contact your local Volvo dealership and ask to remove Volvo security component.

2.2 Understanding how the fiber-optics works

Fiber-Optic vehicles work on a system utilizing a pulse or pulses of light sent around a ring of devices. Each device sits on a point of the ring which starts and finishes at the same place. Each pulse will have a unique signal which can be delivered to a specific part of the chain via a combination of light pulses.

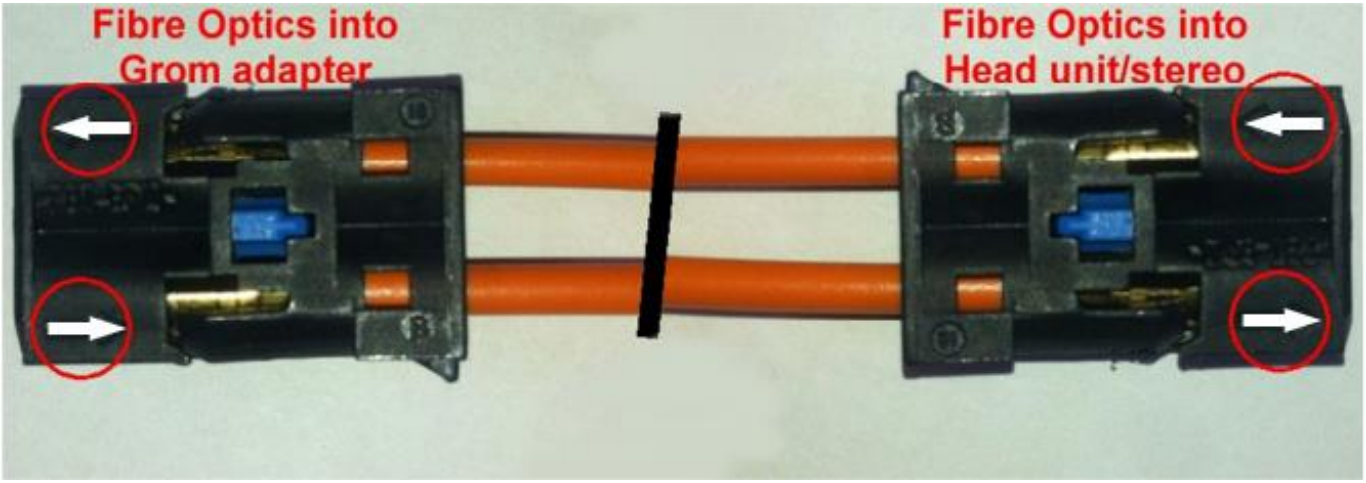
It’s important when installing into the ring of devices that:

a) The ring is not broken and

b) The order is retained after the installation.

Testing the system is quite simple. If you remove one of the directional inputs you should see a pulsing light, if you don’t see any light you have either the wrong directional ring, or the ring is broken somewhere.

On the next page is an image (Picture 1) of the GROM POF (fiber optic) cable, which clearly shows the direction of the ring. Please look for the small black arrows on the black connector. On the picture they are in white.



Picture 1 GROM Fiber Optic Connector

2.3 Tools needed

Car audio dash panel removal/trim pry removal tools, screwdriver. 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.

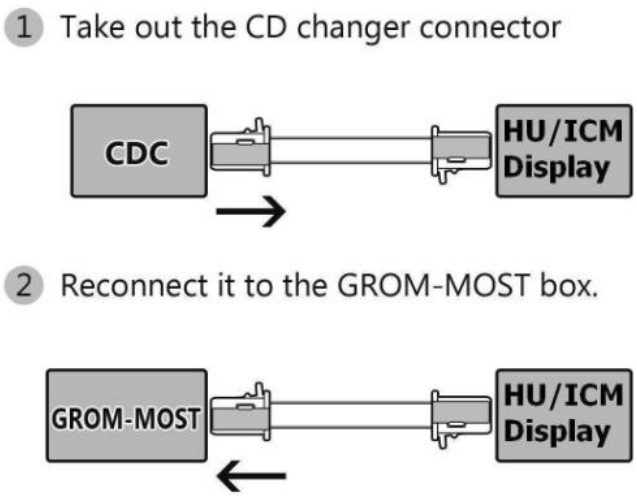
2.4 Electrical and Optical Installation

1. Turn off car engine and remove key from ignition.

2. In order to install the GROM-MST3 adapter, the external CD changer will have to be disconnected in BMW, AUDI, Mercedes Benz and Volvo XC90 2002-2006. For Volvo S40/S60/V50 and for Volvo XC90 2007-2003 the factory CD changer/CD player needs to be left in the fiber-optic ring for the install. In all cases you will not be able to use factory CD player after GROM install.

If no CD changer is present, the GROM-MST3 will need to be wired into the fiber-optic ring on the vehicle.

2.4.1 CD changer is present and activated (Installation into BMW, Audi, Mercedes Benz and Volvo XC90 2002-2006 cars)



Scheme A. Connection to BMW, Audi, Volvo XC90 2002-2006, Mercedes Benz

when the CD changer is present and activated

WARNING: In some instances the power wires on the standard CD changer connector in BMW are in the wrong location in order to be used with the GROM. The below image (image A) shows the standard BMW connector with the PIN's in the correct location.

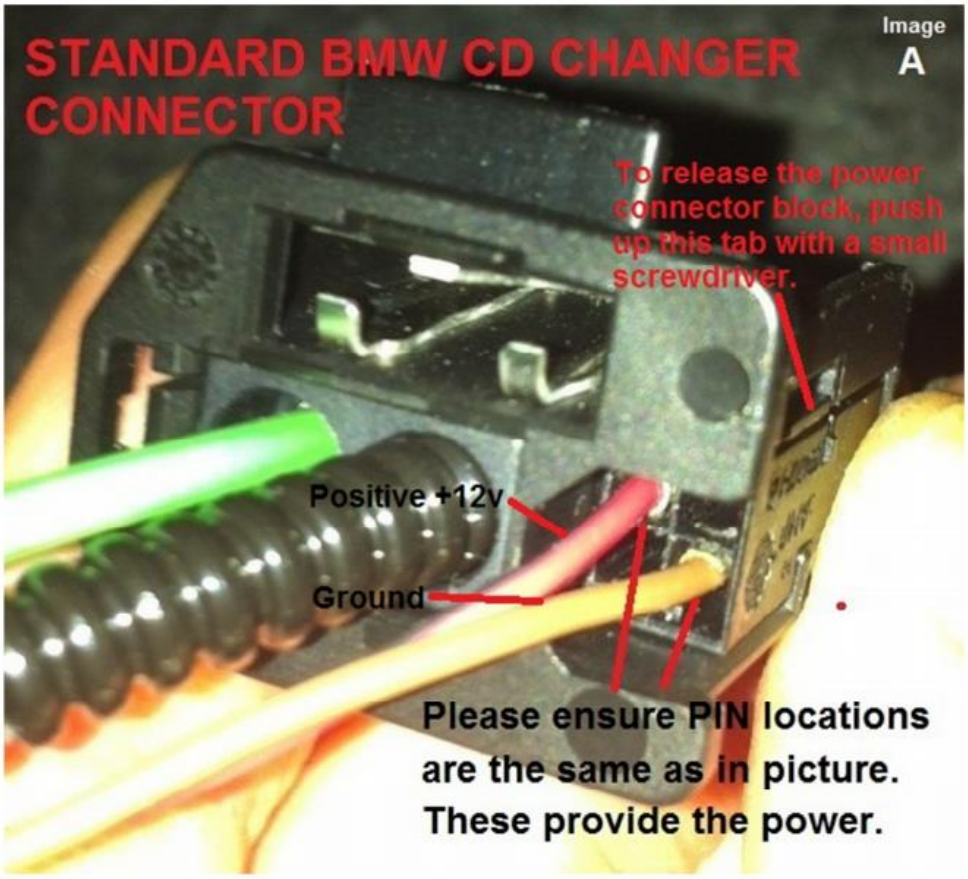


Image A. Standard BMW CD Changer Connector

If the CD changer connector pins are in the wrong positions (not as it is shown on the image **A**, you will need to re-pin them so they will match image A. First you will need to release the power connector block as it is shown on the image A. Push up the tab as shown on the image A with a small screwdriver. Please refer to the image C for the instructions on how to remove and reposition the PIN.

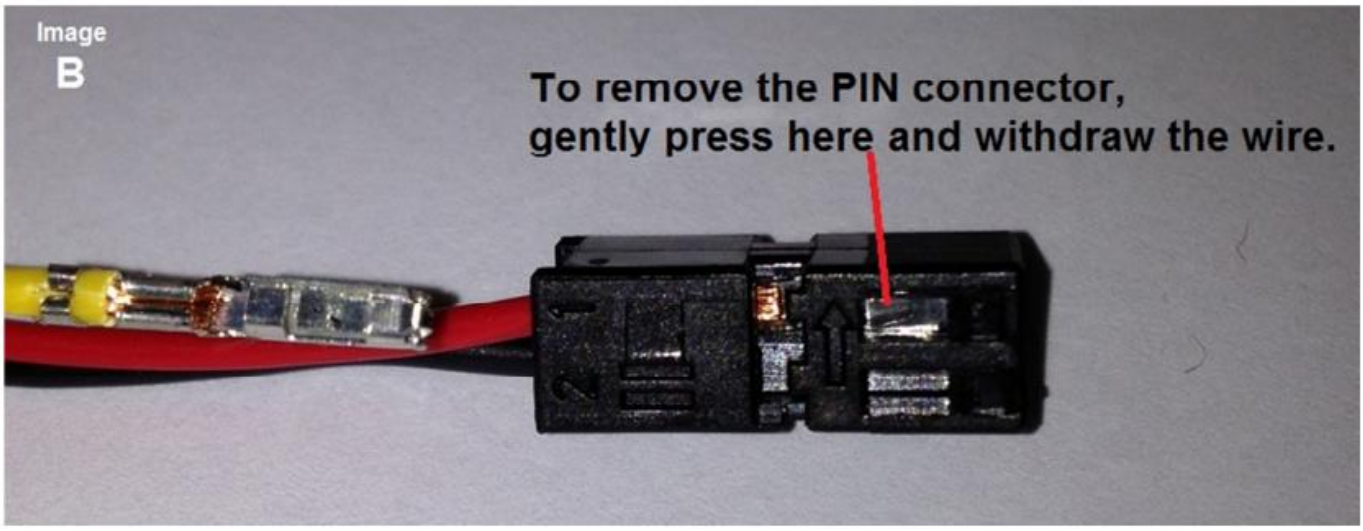
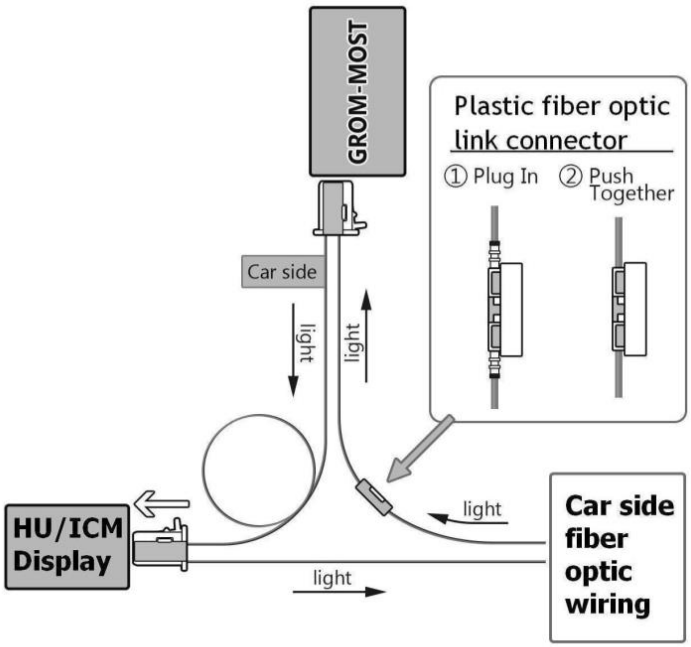


Image B. How to re-pin CD changer connector

The CD changer connector is usually located in the trunk or glove box of your car.

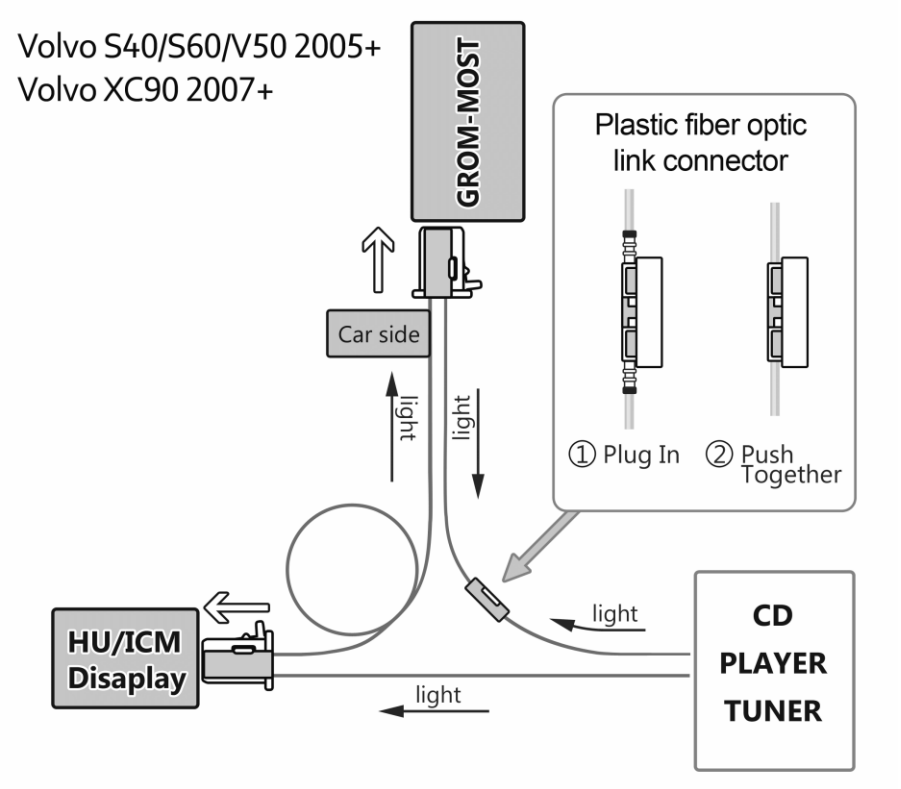
2.4.2 Installation into BMW, Mercedes and Audi when the CD changer is not present or has not been activated.

In that scenario you will need to wire the GROM unit into the fiber-optic ring. To do that you will need to remove 1 (one) fiber optic wire from your factory wiring. It is normally held in with a plastic connector and small push tab. Carefully remove the appropriate fiber cable and replace with the appropriate GROM fiber cable. Use provided plastic coupler to connect other GROM fiber cable and factory fiber cable together. Make sure that the light goes into the correct direction, as it is shown on the scheme B below.



Scheme B. Connection to BMW, Audi or Mercedes Benz
CD changer is not present or has not been activated

If you are installing GROM kit into Volvo XC90 2007-2013, or S40/S60/V50 2004 and up, please refer to the Scheme C on the next page for the installation and direction of the optical light reference.



Scheme C. Connection into Volvo S40/S/60/50 and Volvo XC90 2007+ cars

If you are connecting your GROM kit with the GROM-POF (fiber optic) cable, it will be necessary to connect the power cables with the Posi-Tap clips provided. Use one posi-tap to connect the positive +12v (color of the wire is red) to respective PIN/wire the ground (color of the wire is black) to respective PIN/wire on the quadlock harness connector.

Please refer to the picture below for connection into BMW. Positive +12V connects to PIN/wire 15, Ground connects to PIN/wire 12 :

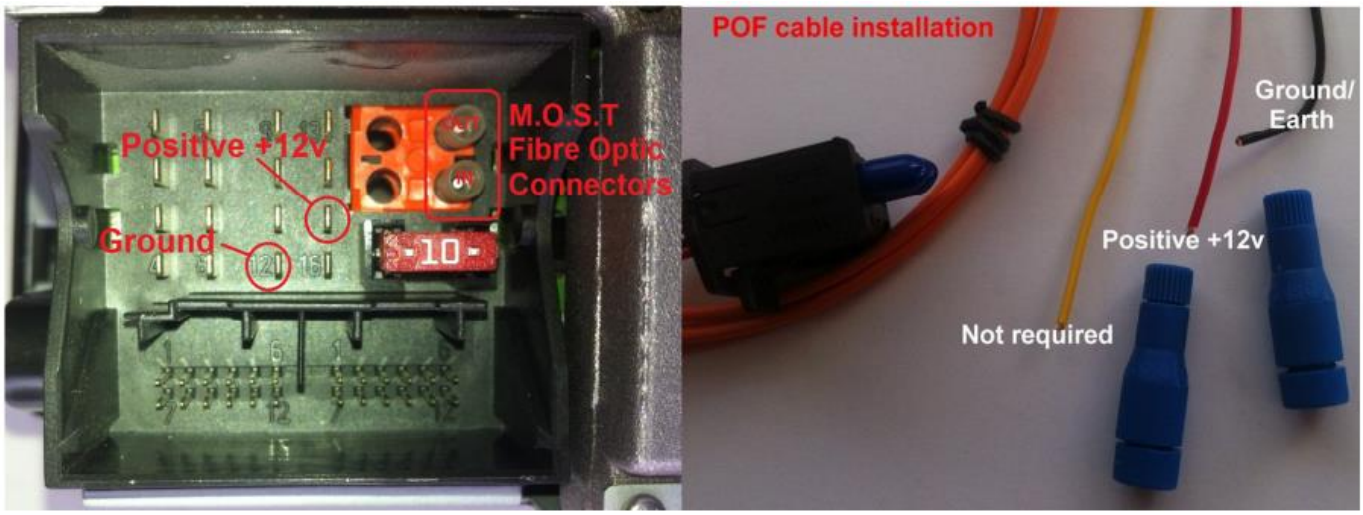


Image C. Connection into BMW

Please refer to the picture below for connection into Volvo S40/S60/V50/XC90 2007 and up. Positive +12V connects to PIN/wire 1, Ground connects to PIN/wire 8:

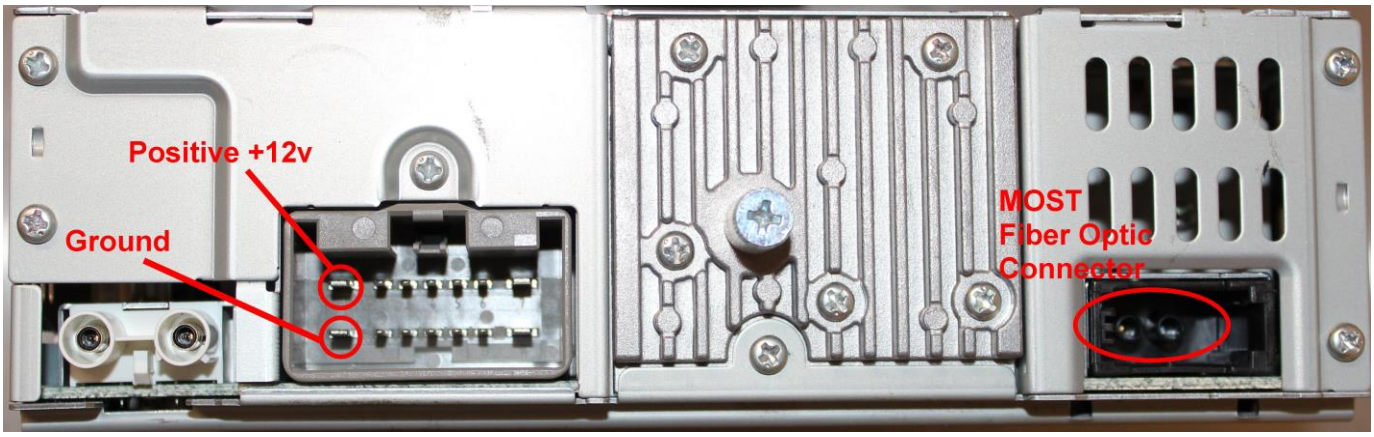


Image D. Connection into Volvo S40/S60/V50/XC90 2007 – 2013

Please refer to the picture below for connection into Audi and Mercedes Benz. Positive +12V connects to PIN/wire 4, Ground connects to PIN/wire 8:

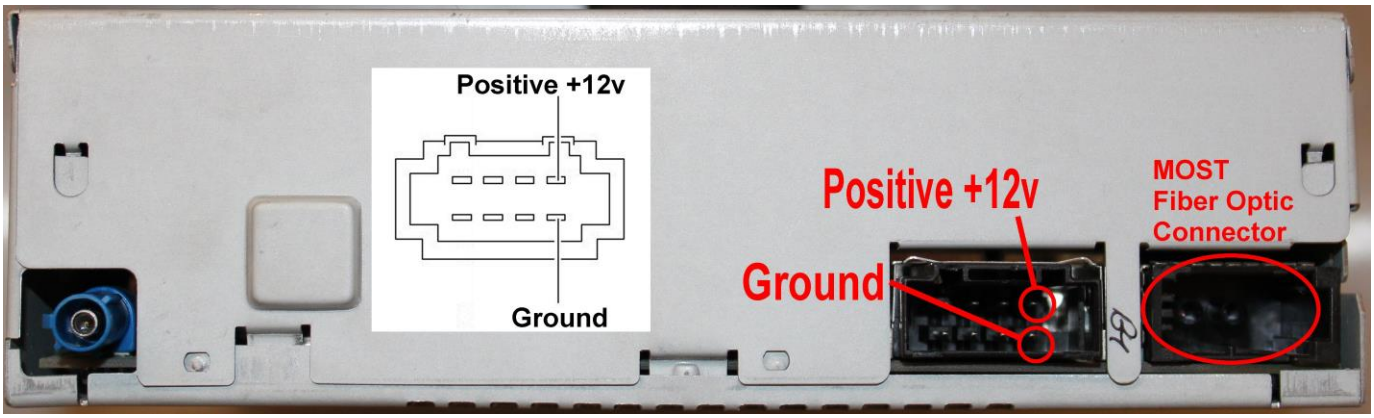
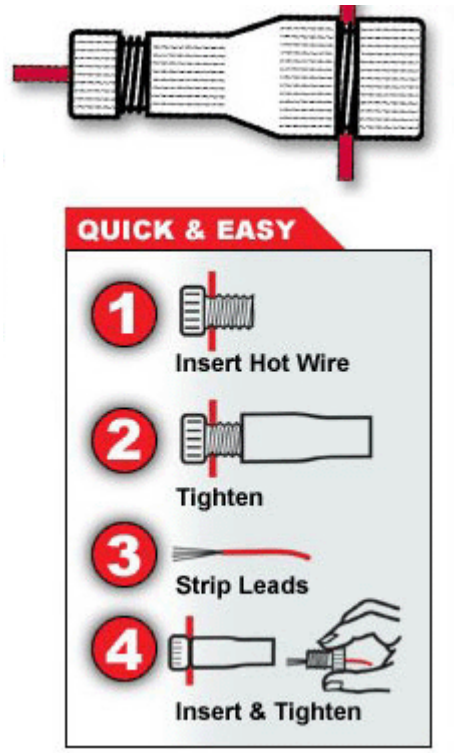


Image D. Connection into Audi and Mercedes Benz.

1. Locate appropriate wires on the car stereo harness (refer to the above).
2. Connect the wires using Posi-taps provided according to the harness diagram and the color of the adapter wire.
2. The wires that come from your stereo are “HOT” wires referring to the picture. Don’t forget to strip the free hanging wires from POF harness that came with your GROM (red and black colored).

WARNING! NEVER CUT ANY WIRES THAT COME FROM YOUR STEREO!



2.4.3 Important notice for BMW owners.

Please check that the CD changer function is activated on your factory stereo. If it is not activated you will need to contact your BMW dealer or aftermarket diagnostic company (we recommend Autologic) and have then activate CD changer mode (typically a 30 minute job).

Autologic: www.autologic-diagnostics.com/en/pages/distributor-locator/world-map

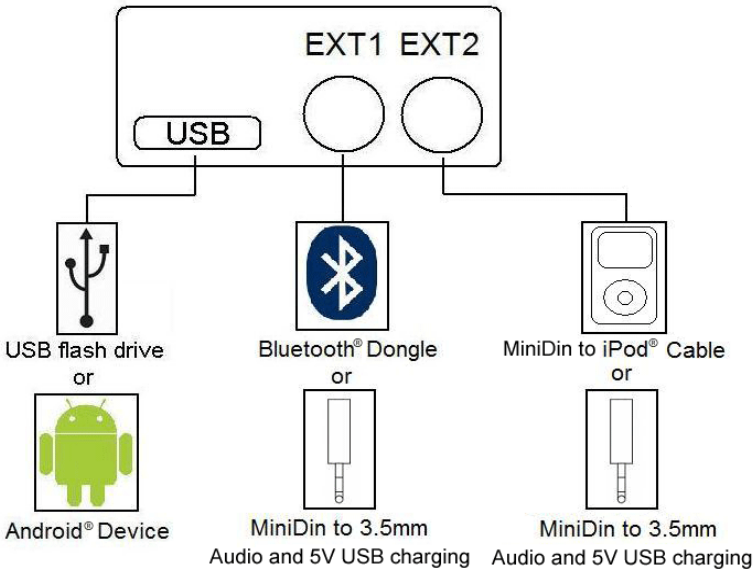
2.4.4 Important notice for Volvo owners.

In some cases if the device is recognized and works properly but only for a few seconds you will need to visit your Volvo dealer and apply "MOST Security OFF" patch.

This patch will allow third party integration devices to work properly with your factory stereo and can only be set by Volvo.

Check out the install video at http://www.youtube.com/watch?v=UJX86A8FVIY

Chapter 3 – Testing the operation, simple usage guide



3.1 EXT1-EXT2 PORTS - Accessories Cables Connection

Connect the cables to the appropriate slots available on GROM-MST3 (see illustration).

EXT1- connect GROM Bluetooth Dongle or AUX-In 3.5mm cable

EXT2– connect GROM compatible IPOD cable or AUX-In 3.5mm cable

Note: You can connect GROM Bluetooth Dongle only to the EXT1, and GROM compatible IPOD cable only to the EXT2. All other cables/add-ons can be connected to either EXT1 or EXT2.

3.2 Mode Selection

GROM-MST3 can work in three modes: USB, EXT1 (AUX) or EXT2 (IPOD).

3.2.1 MODE Selection for BMW non iDrive stereos

1. Press **AUDIO** button and choose **CDC** to enter into GROM mode. It is usually USB by default, so if the USB flash drive with the music is connected – the music will start playing.

2. To switch between USB, EXT2 (IPOD) or EXT1 (AUX)you will need to do the following steps.

    1. Press **DISC 6** button and activate “Device Menu”

    2. Press **LIST** button and enter into “Device Menu”

    3. In the “Device Menu” you will see “Source: USB”. Using the tuning knob on the left navigate to “Source” and press Tuning knob button on the right. The GROM will enter into iPod mode.

    4. Repeat the same step for the AUXILIARY Mode..

3.2.2 Quick USB Stick Operation for BMW non iDrive stereos

1. Press > or < button to change tracks

2. Numeric pad will let you to switch between the Folders/Playlists

3. Press and hold > or < for Fast Forward or Rewind

3.2.3 MODE Selection for Mercedes Benz

1. Press **AUDIO** button and choose **CDC** to enter into GROM mode. It is usually USB by default, so if the USB flash drive with the music is connected – the music will start playing.

2. To switch between USB, EXT2 (IPOD) or EXT1 (AUX) you will need to do the following steps. Please note that you will need to perform the steps below within 1-2 seconds interval:

- Press **AUDIO** button and choose **RADIO**, press **AUDIO** button again and choose **CDC**. You will hear the current mode announce (USB, IPOD or AUX). Quickly press **SEEK +** button and you will hear the next mode announce. Keep pressing **SEEK +** button until you hear the desired mode announce.

3.2.4 Quick USB Stick Operation for Mercedes Benz

1. Press **SEEK +** or **SEEK -** button to change tracks

2. Numeric pad will let you to switch between the Folders/Playlists

3. Press and hold **SEEK +** or **SEEK -** for FF or Rewind

3.2.5 MODE Selection for Volvo S40/S60/V50 and XC90 2007-2013 Single Disc Stereo

1. Press Mode/CD to enter GROM mode

2. You will be using Tuning knob to switch between 3 modes (USB, EXT1, EXT2).

TRACK 20 = USB Mode. Turn right Tuning knob **>** 20 tracks to switch to iPod.

TRACK 40 = EXT2 or IPOD MODE (IPOD will appear on the radio display). Turn right Tuning knob **>** 20 tracks to switch to AUX.

TRACK 60 = EXT1 or AUX MODE (AUXILIARY will appear on the display). Turn right Tuning knob > 20 tracks to switch to back to USB.

3.2.6 Quick USB Stick Operation for Volvo S40/S60/V50 and XC90 2007-2013 Single Disc Stereo

1. Press < or > button to change tracks
2. Turn right Tuning knob <10 to change tracks.
3. Track Time shows FOLDER and TRACK number. Minutes = Folder / Seconds = Track Number
4. To change Folders/Playlists use Tuning knob. Turn Tuning knob 10-19 tracks to jump into the next Folder/Playlist
5. + 10-19 – NEXT Folder, - 10-19 – Previous Folder

3.2.7 MODE Selection Volvo S40/S60/V50 and XC90 2007-2013 6-Disc Stereo

1. Press Mode/CD to enter GROM mode
2. Use EJECT button to switch between 3 MODES (USB, EXT1, EXT2).

3.2 8 Quick button operation for Volvo S40/S60/V50 and XC90 2007-2013 6-Disc Stereo

1. Press < or > button to change tracks
2. On the 6-CD stereos you can create up to 6 Folders/Playlists with unlimited number of tracks on your USB memory device, Android device, iPod or iPhone. Each playlist will be assigned to the particular Disc button on the stereo.
3. Track title, time and number, Disc number will be shown on the stereo.
4. To change Folders/Playlists use Disc buttons on the stereo.

3.2.9 MODE Selection for Volvo XC90 2002-2006 6CD

1. Press **CD** button to enter GROM mode

Presses EJECT to switch between USB, EXT2 (IPOD) or EXT1 (AUX). You will see the MODE name displayed on the car stereo screen.

3.2.10 Quick USB Stick Operation for Volvo XC90 2002-2006 6CD

1. Press << or >> button to change tracks
2. Numeric pad will let you to switch between the Folders/Playlists (1-6 only)
3. Press and hold << or >> for FF or Rewind

3.2.11 MODE Selection for BMW iDrive and Audi stereos

1. Using iDrive or MMI armrest control knob enter into **CDC** mode on your stereo. It is usually USB by default, so if the USB flash drive with the music is connected – the music will start playing.
2. To switch between USB, EXT2 (IPOD) or EXT1 (AUX) you will need to navigate to Disc 6 while in CDC mode. On the screen you will see Source. You will be able to switch source using the control knob on your armrest panel.

–

3.2.12 Quick USB Stick Operation for BMW iDrive and Audi stereos

1. Press > or < button to change tracks
2. Use armrest control knob to change between folders.

3.3 Installation Troubleshooting

Symptom	Cause	Remedy
Stereo is not recognizing the GROM-MST3P adapter	12v Power and Ground connection may not be pinned correctly Optic Fiber light may be facing the wrong direction	Make sure the power and Ground is pinned in correct location by using illustrations and by using a multimeter or slightly tighten the Posi-Tap connector Look over the Fiber light arrow direction and make sure it is facing the correct direction
No music is audible from the MP3 player	The stereo is not in the CD changer mode	Make sure CD changer is selected and make sure you are on the correct MODE of the GROM (correct key depends on your stereo)
For Volvo only: Stereo is turning on and off every couple of seconds	MOST security may be on or fiber optic light cabling may be going wrong direction	Double check the fiber optic light and make sure direction is going right way and after the display unit. If it is then MOST Security will have to be turned off.
For BMW only: Stereo is not recognizing the GROM-MST3P adapter	Power wire and Ground may not be in correct location Vehicle may not be coded correct to accept cd changer	Make sure the power and Ground is pinned in correct location by using illustrations and by using a multimeter Vehicle will have to be Retrofit/Coded to accept CD changer

FOR COMPLETE USER MANUAL AND GUIDELINES PLEASE REFER TO THE USER MANUAL THAT CAME WITH YOUR INTERFACE.
YOU CAN ALSO CHECK FOR APPROPRIATE USER MANUAL AT GROM WEBSITE WWW.GROMAUDIO.COM

Chapter 4 – *Support*

For technical support, please visit http://gromaudio.com/support.html and fill in the web form.

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.

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. Please follow to the return instructions that you will receive upon requesting the RMA.

WITHOUT THE RMA RETURNS ARE NOT ACCEPTED!

5.2 LICENSE AGREEMENT AND DISCLAIMER

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