



GROM-MST4

**MP3 USB Android iPhone/iPod/iPad car stereo adapter kit
For fiber-optic stereos**

Optional Bluetooth and AUX-In extensions

INSTALL MANUAL



SUPPORT: [HTTP://GROMAUDIO.COM/SUPPORT.HTML](http://gromaudio.com/support.html)

Chat with us live 9am-5pm PST Monday through Friday
www.gromaudio.com

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Chapter 1 - Introduction

1.1 Subject

Thank you for purchasing the GROM-MST4 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-MST4 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 or tablet** (most supported) play, charge and control through USB port via standard USB to Android cable.
- **iPod®/iPhone®/iPad®** play, charge and control through USB port via standard USB to iOS device cable, both Lightning style and 30-pin connector cables are supported.
- **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, iPhone/iPod/iPad, or Android Phone/Tablet Mode

- Ability to listen to songs in car on USB mass storage device (such as flash drive), iPod/iPhone/iPad 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 or iOS device are mapped to discs. Browsing by Album, Artist, Genre is available on BMW iDrive and AUDI stereos.
- Number of “discs” limited to the car stereo (up to 99 on select stereos).
- Last listened song position within the play list is remembered and time position is restored upon ignition cycle (*may not apply to some iPod).
- Charging via USB cable while in use.

1.4 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.

1.5 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)

1.6 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

1.7 Contents and connection of set

a) The GROM audio adapter set consists of the GROM-MST4 main interface, one automotive grade USB cable 3FT, one fiber-optic connector and P-Tap, and one 2GB USB stick.



1. GROM-MST4 interface



2. One USB cable, 3FT



3. One fiber-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:



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-MST4

BMW (iDrive/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-MST4 and retrofit “CDC” and “KMP3” option 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.
- For **Audi** Vehicles, before removal of factory CD changer make sure it is able to play MP3 CDs. If MP3 CD playback is not possible to then the Audi MMI software may needed to be updated for MP3 support before GROM can work with stereo. (**See Section 2.4.6 for more details**)

Volvo:

- No programming is required.
- Some cars need MOST 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 MOST 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.

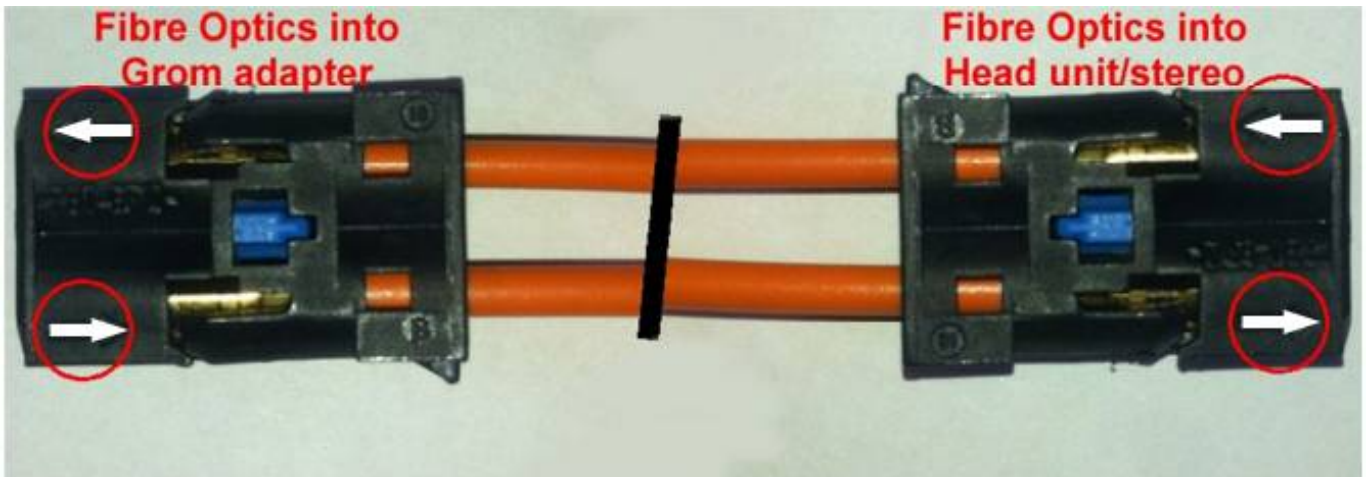
Each device sits on a point of the ring which starts and finishes at the same place.

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. Below 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-MST4 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.

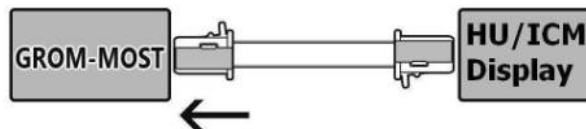
If no CD changer is present, the GROM-MST4 will need to be wired into the fiber-optic ring on the vehicle.

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

- 1 Take out the CD changer connector



- 2 Reconnect it to the GROM-MOST box.



Scheme A. Connection to BMW, Audi*, Volvo XC90 2002-2006, Mercedes Benz* when the CD changer is present and activated.

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

***Note** that in Mercedes Benz and AUDI, the CD changer connector is different than GROM connector. You will need to transfer the factory fiber optic cable over to the GROM supplied MOST connector, and then connect the 12v & Ground power of GROM to the CD changer (See Image A & B for further info on Posi-tap connection location).

2.4.1.1 Connection into Volvo XC90 2002-2006 at the CD changer location

Simply unplug the CD changer connector from Volvo CD changer and re-plug it into GROM-MST4 kit.

2.4.1.2 Connection into BMW at the CD changer location

Simply unplug the CD changer connector from BMW CD changer and re-plug it into GROM-MST4 kit.

NOTE: that in most instances the power wires on the standard CD changer connector in BMW are in the wrong PIN location in order to be used with the GROM. The next image (image A) shows the standard BMW connector with the PINs in the correct location.

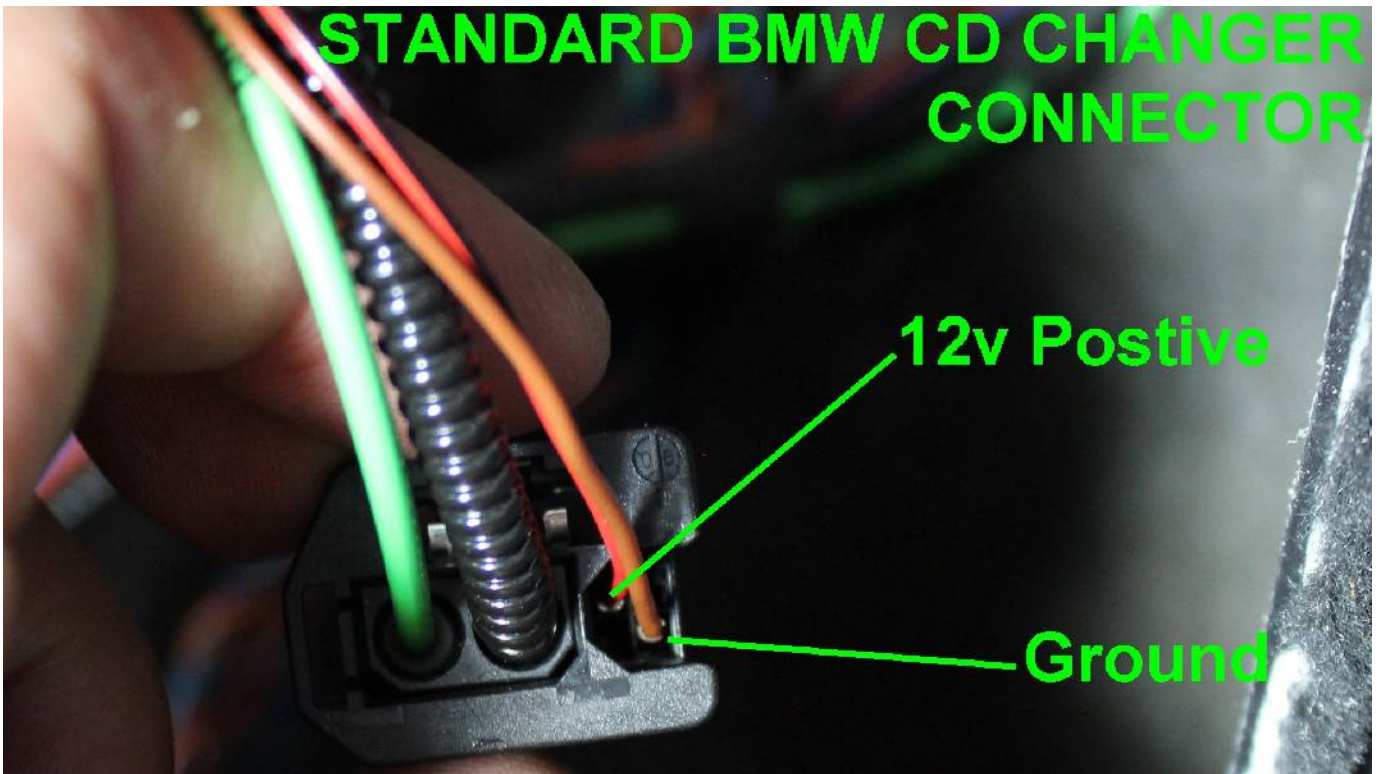
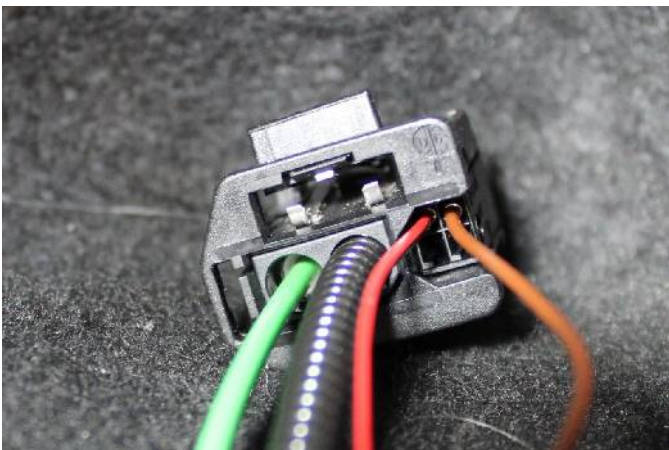


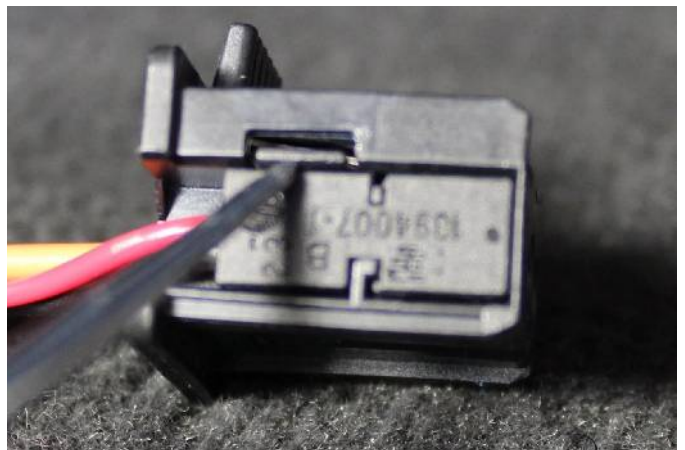
Image A. Standard BMW CD Changer Connector

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. Please refer to the steps below for the instructions on how to remove and reposition the PIN.

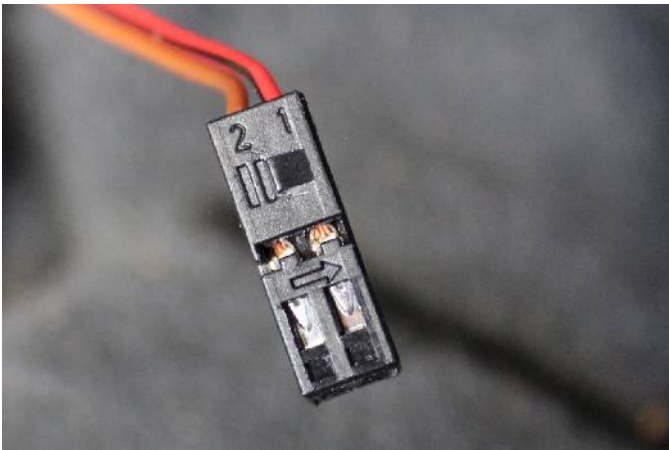
How to re-pin CD changer connector



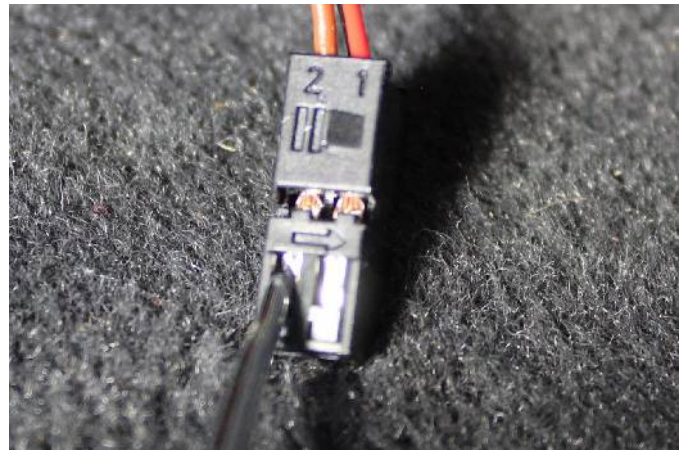
1. Factory fiber-optic Connector showing original Ground wire placement



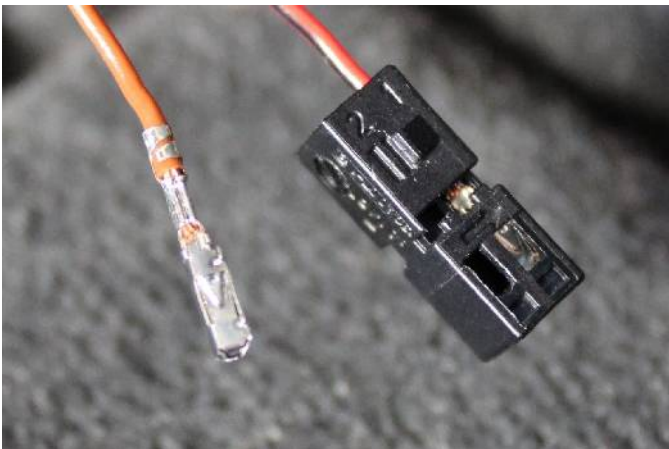
2. Release Tab here, use pick to release to allow removal of 4-pin connector.



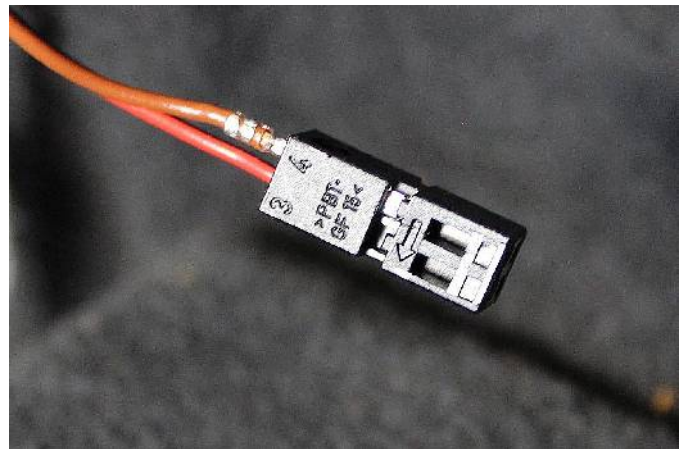
3. Factory 4-pin Connector removed from Main connector.



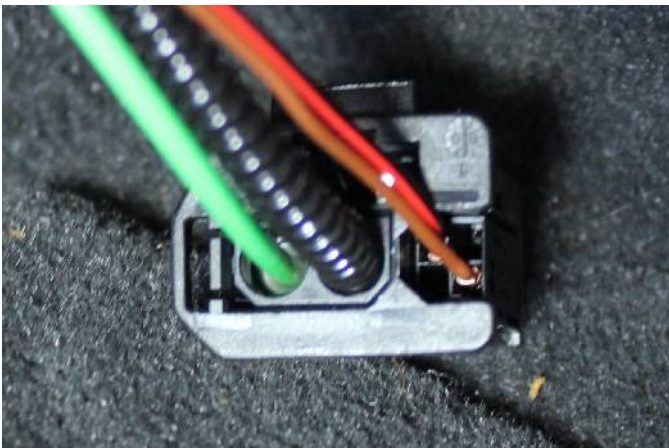
4. Gently press release tab with a pick and pull slowly to remove Pin 2



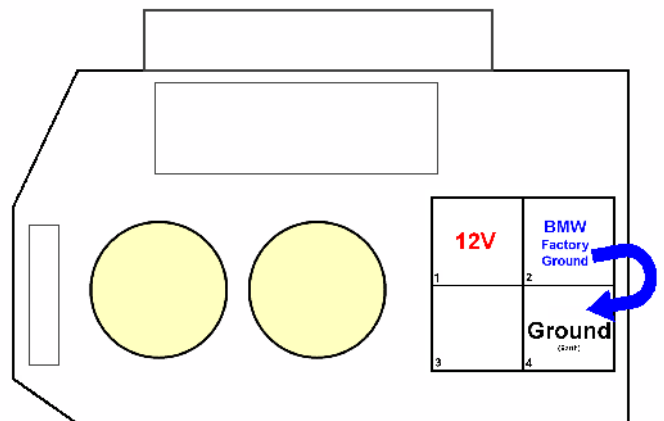
5. Pin 2 is now freed (Pin 2 is Ground)



6. Now insert Freed wire into Pin 4 location



7. Now snap connector back into place
Connector with Pin 2 is moved to Pin 4 now.



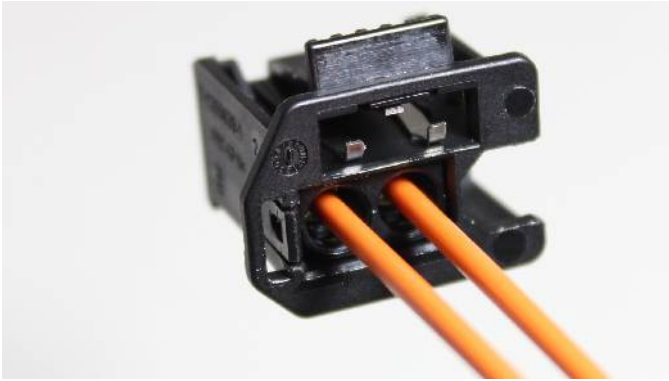
2.4.1.3 Connection into Audi and Mercedes Benz at the CD changer location

Mercedes Benz and AUDI have different than GROM CD changer connector.

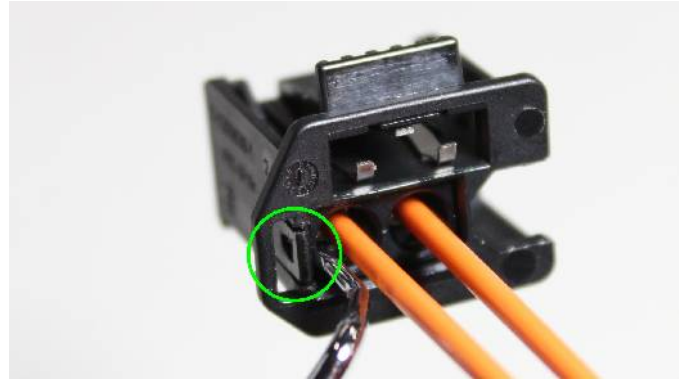
You will need to transfer the factory fiber optic cable over to the GROM supplied MOST connector, and then connect the 12v power & Ground of GROM to the CD changer (See Image C & D for further info on Posi-Taps connection location).

To understand how to connect Posi-Taps, and where the 12V and Ground wires are located on GROM connector, please refer to the Posi-Tap instructions on page 12, and the Image E on the page 13.

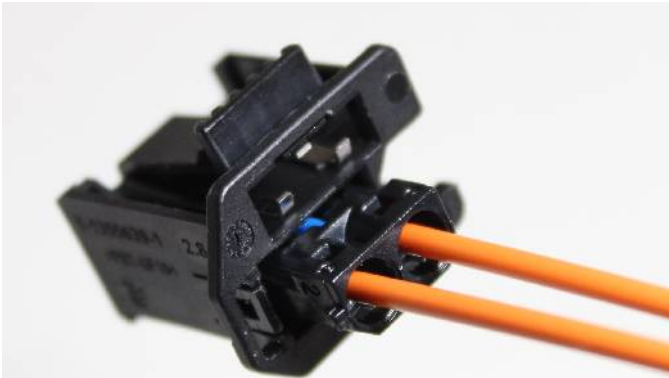
How to remove Factory fiber-optic to transfer over to GROM supplied connector



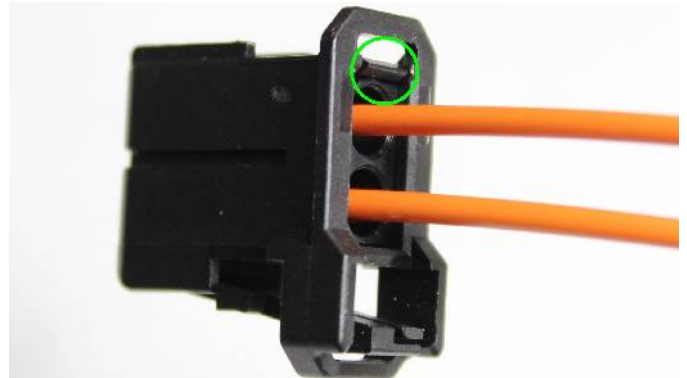
1. GROM supplied fiber-optic Connector



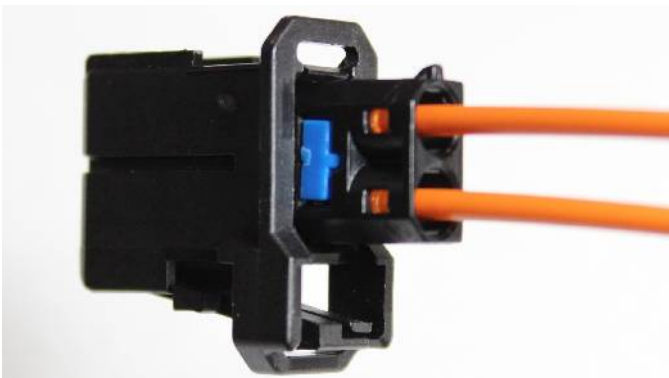
2. Use pick to release tab to take out supplied fiber-optic sub connector (circled in Green)



3. Pull fiber-optic sub connector out and put aside



4. Locate factory fiber-optic connector and release sub fiber-optic connect by using pick to release tab (circled in Green)



5. Pull out factory fiber-optic sub connector

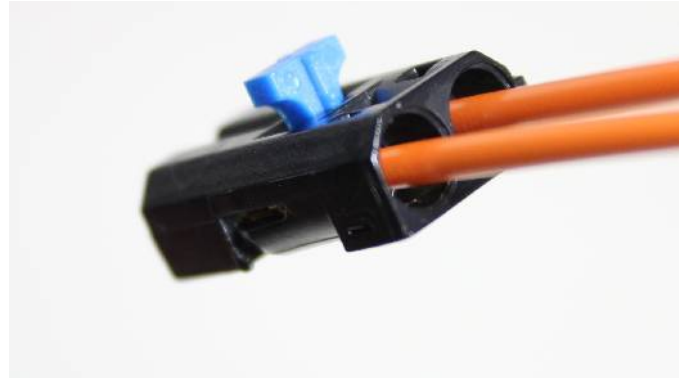


6. Put aside main factory fiber-optic Connector and push sub connector into Supplied GROM connector

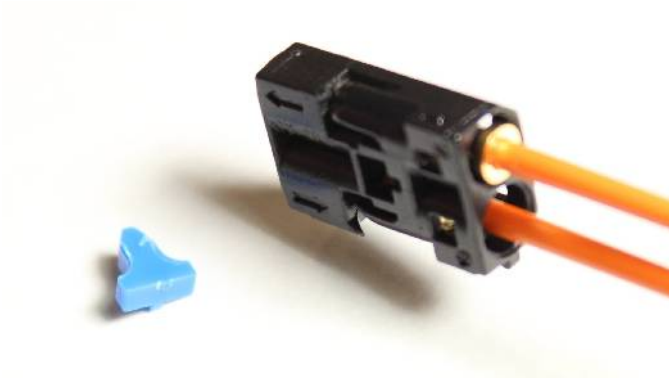
In some cases, when factory connector does not have sub-connector, you may have to release the fiber-optic cable from factory connector and insert into GROM supplied Connector,



7. Press BLUE retainer plastic inward (circled in Green)



8. Flip connector around and you will see BLUE plastic retainer coming out.



9. Pull out BLUE plastic retainer from connector and put aside.



10. Press release tab with pick (circled in Green) and removal fiber-optic cable and transfer over if necessary and reinsert BLUE plastic retainer when done.

Please refer to the next image C for connection into Audi at CD changer location.

Positive +12V connects to PIN/wire 2, Ground connects to PIN/wire 1 on Audi CD changer:

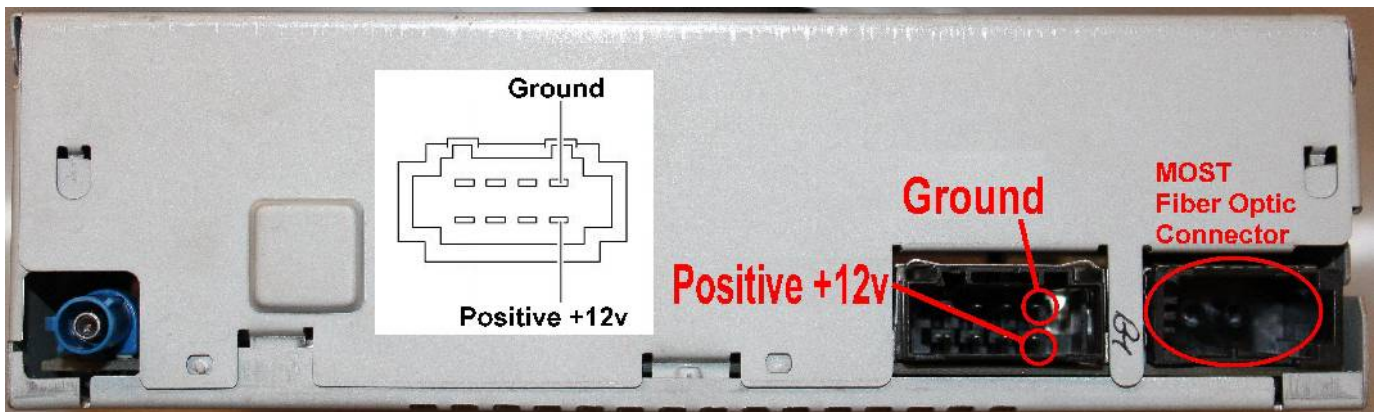


Image C. Connection into Audi at the CD changer location.

Please refer to the image D. for connection into Mercedes Benz at CD changer location. Positive +12V connects to PIN/wire 1, Ground connects to PIN/wire 2:

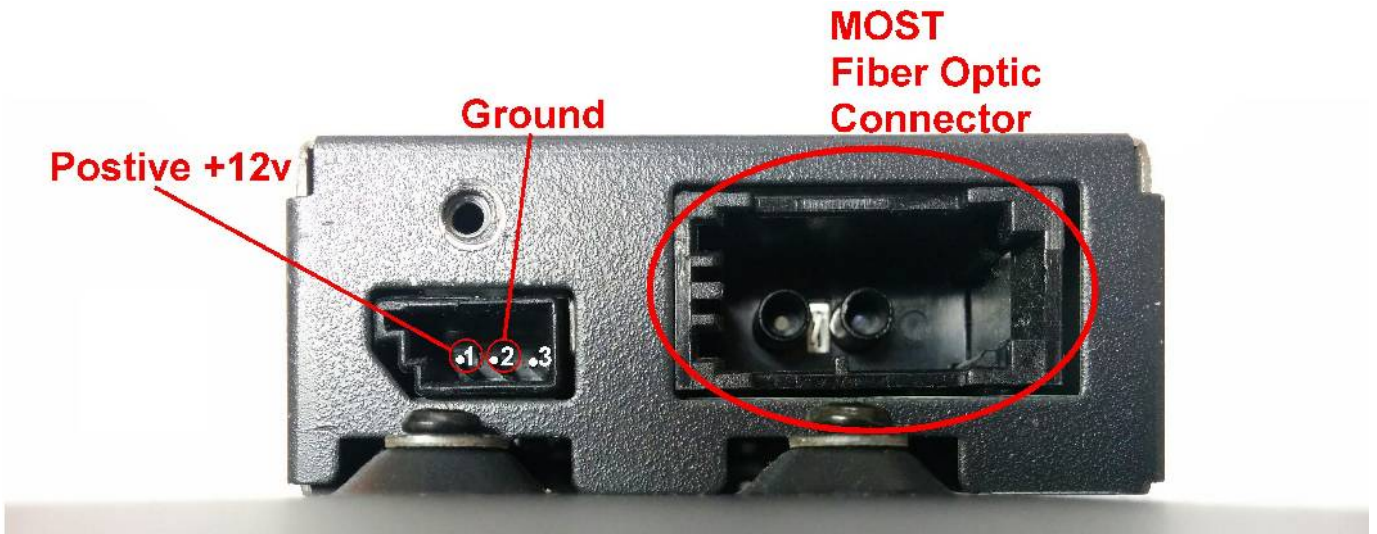
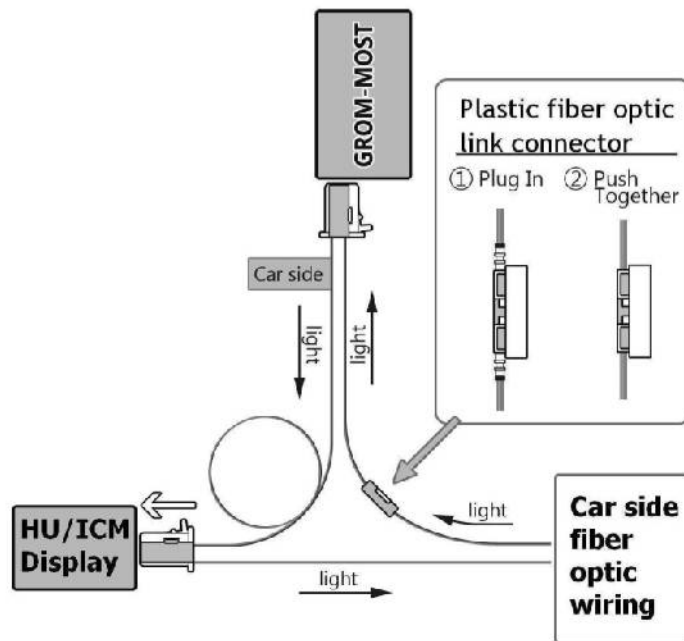


Image D. Connection into Mercedes Benz at the CD changer location.

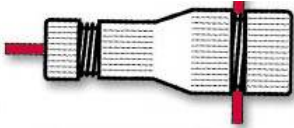
2.4.2 Installation into BMW or Mercedes Benz when the CD changer is not present or has not been activated.



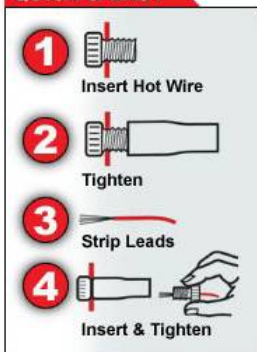
Scheme B. Connection to BMW or Mercedes Benz CD changer is not present or has not been activated

1. 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**.

2. Connect the GROM power and ground wires with the Posi-Tap clips provided to the factory stereo. Use one posi-tap to connect the positive +12v (color of the wire is red) to respective PIN/wire, and the ground wire (color of the wire is black) to respective PIN/wire on the quad lock harness connector.

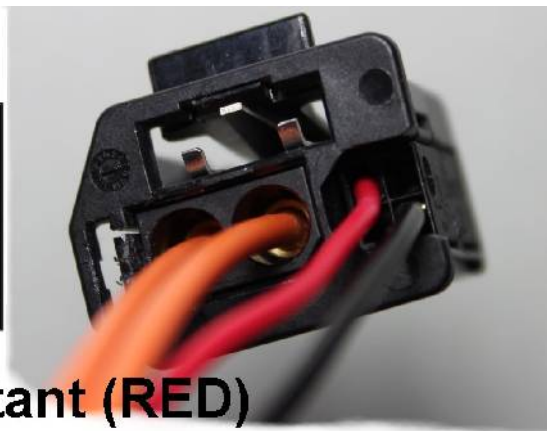
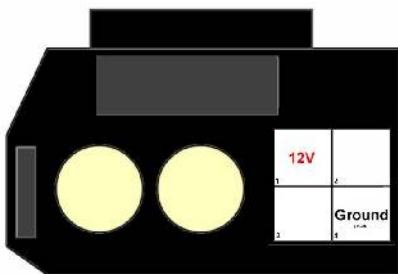


QUICK & EASY



1. Locate appropriate wires on the car stereo harness.
2. Connect the GROM wires and factory wires using Posi-Taps provided according to the harness diagram and the color of the adapter wire. 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 OR CD CHANGER!



PIN 1 - 12V Constant (RED)
PIN 4 - Ground (Black)

Image E. Location of 12V and Ground wires on GROM connector

Please refer to the picture below (Image F.) for connection into BMW and Mercedes Benz behind the stereo. Positive +12V connects to PIN/wire 15, Ground connects to PIN/wire 12:

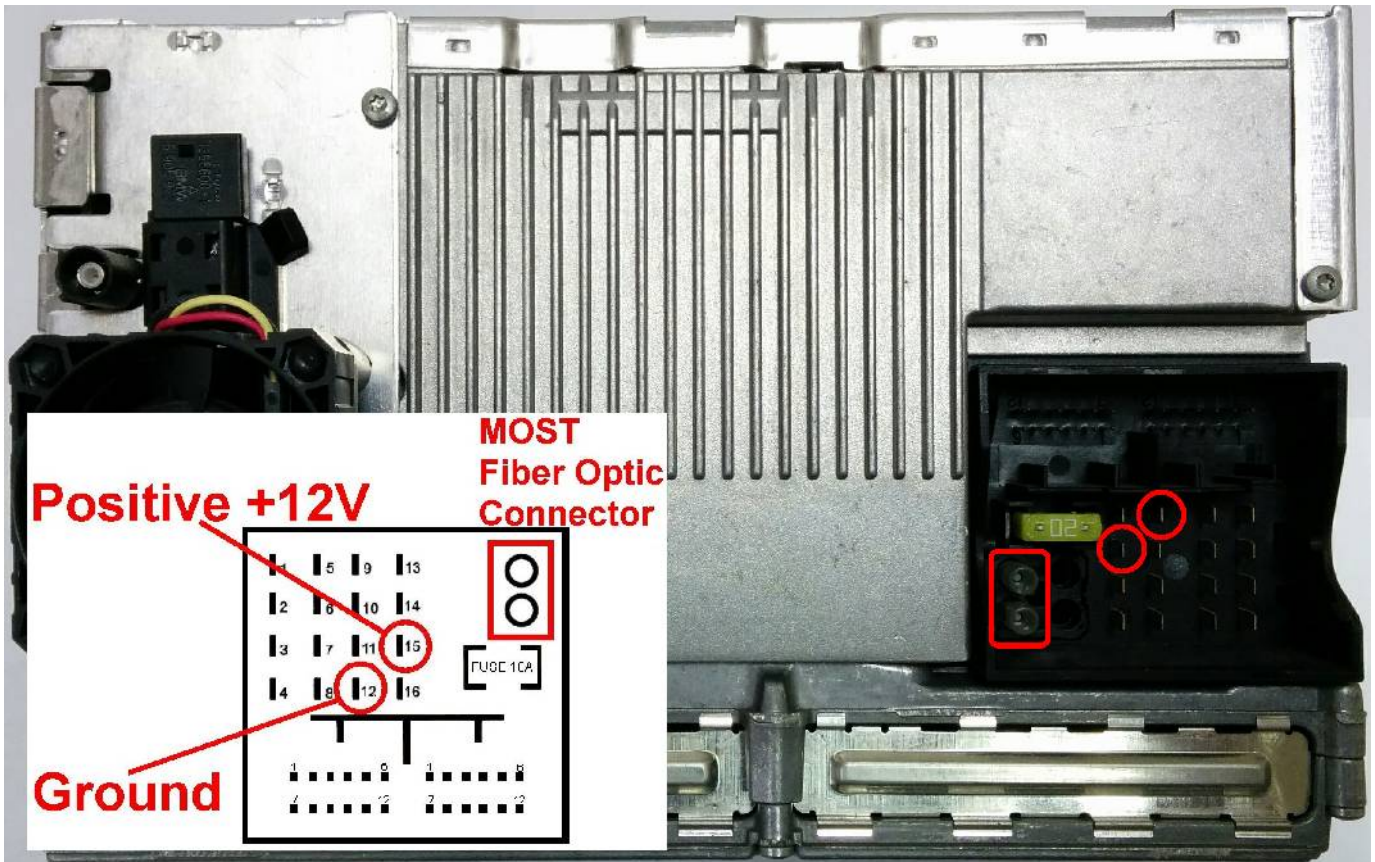


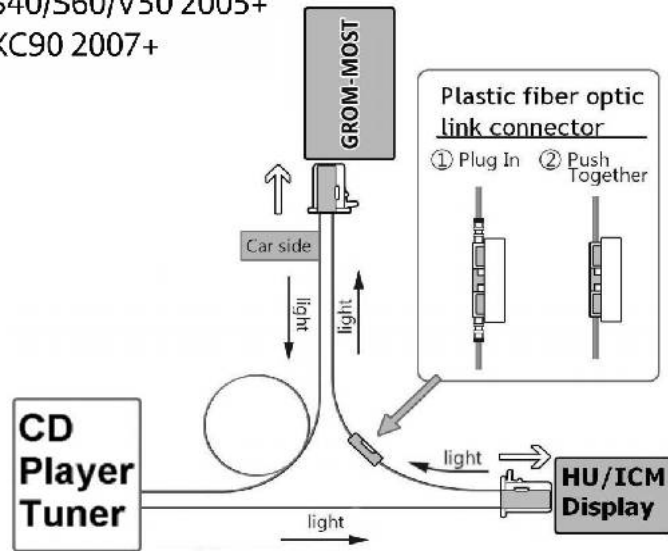
Image F. Connection into BMW/Mercedes Benz (rear of stereo connector port)

NOTE: View of the connector behind stereo is flipped around

2.4.3 Installation into Volvo S40/S/60/50 and Volvo XC90 2007+ cars

1. 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 C below**.
2. Connect the GROM power and ground wires with the Posi-Tap clips provided to the factory stereo. Refer to the Image G below for the exact connection location. Use one posi-tap to connect the positive +12v (color of the wire is red) to respective PIN/wire, and the ground wire (color of the wire is black) to respective PIN/wire on the factory harness connector. Refer to the image E on the page 13 for the exact location of power and ground wires on GROM MOST harness.

Volvo S40/S60/V50 2005+
Volvo XC90 2007+



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

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:

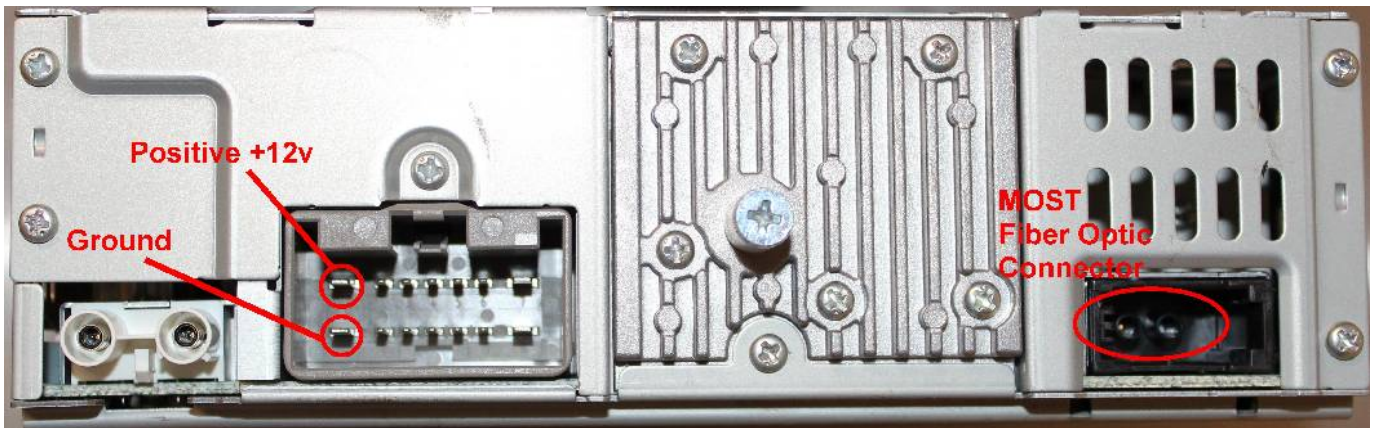


Image G. Connection into Volvo S40/S60/V50/XC90 2007 – 2013

NOTE: In Volvo S40/S/60/50 and Volvo XC90 2007+ vehicles, it is very important that the GROM-MST4 unit must be installed between the Display of head-unit and the CD Player/Tuner. The Optic Light traveling out of the Display must go to the GROM unit input first, and then the Optic Light out of GROM unit can be connected to the input of the CD Player/Tuner

2.4.4 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

If vehicle is equipped with factory Amplifier (i.e. LOGIC 7 system), it is very IMPORTANT that the GROM needs to be installed in the fiber optic loop after the amplifier (i.e. fiber optic light coming out of amplifier facing direction into GROM) and CANNOT be installed in between the Head unit of fiber optic light facing Amplifier. Easy way to accomplish this is to grab Fiber-optic light direction feeding into stereo and remove and feed this into GROM unit and complete the rest of the fiber-optic cabling like normal.

2.4.5 Important notice for Volvo owners – MOST security patch.

Volvo outside of USA: 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.

Volvo within USA: In some very rare cases, if Volvo was imported to US from Europe, the car within US might have the Volvo MOST security on. No any Volvo dealer within USA can remove Volvo MOST security, therefore GROM adapter will not work for such car. GROM will accept the device back, but will bear no responsibility for installation charges. Check out the install video at <http://www.youtube.com/watch?v=UJX86A8FVIY>

2.4.6 Important notice for Mercedes Benz owners.

If vehicle is equipped with factory Amplifier, it is very IMPORTANT that the GROM needs to be installed in the fiber optic loop after the amplifier (i.e. fiber optic light coming out of amplifier facing direction into GROM) and CANNOT be installed in between the Head unit of fiber optic light facing Amplifier.

2.4.7 Important notice for Audi owners.

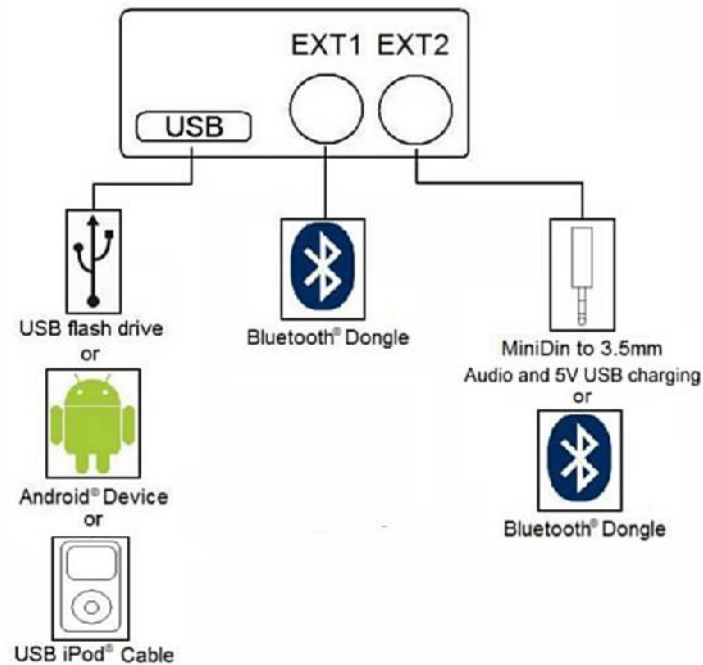
In cases were GROM installed and MMI stereo does not pick up the GROM after installation then check MMI software version as it may need to be updated to support MP3.

The GROM-MST4 emulates a MP3 CD changer.

For more information visit link: http://www.gromaudio.com/docs/audi_mst.pdf

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-MST4 (see illustration).

EXT1- connect GROM Bluetooth Dongle, **EXT2**– connect GROM Bluetooth Dongle or AUX-In 3.5mm cable.

Note: You can connect GROM Bluetooth Dongle to either the EXT1 or EXT2, and **AUX cable only to the EXT2**.

3.2 Mode Selection

GROM-MST4 can work in these modes: USB or EXT2 (AUX)

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 and AUX (EXT2) 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 AUXILIARY mode.
 4. Repeat the same step to switch to back to USB 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 or AUX (EXT2) you will need to do the following steps:
 - Switch to DISC 6 and Select TRACK 2. It will switch the MODE to the next. Do steps again to switch to the next MODE, order in USB, AUX
- ***To distinguish which is current MODE for stereos with no text display capability, have the stereo already in CDC mode (GROM Mode) -->press RADIO -->wait 1-2 second -->press CDC (GROM Mode).
- You will hear the current Mode announce (USB or AUX).

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

DISC 6 is GROM Menu:

Track 1 - BootLoader/Firmware Version

Track 2 - Change GROM Modes (USB and AUX)

Track 3 - Bluetooth Reset

Track 4 - Enable/Disable USB streaming

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 modes (USB, and AUX).

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

3. You may also switch between modes a simpler way: Press the **EJECT** BUTTON and it will jump between **TRACK 20** and **TRACK 60** without much effort. GROM will announce current mode.

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 MODES (USB, AUX).
GROM will announce current mode.

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 and AUX (EXT2). You will see the MODE name displayed on the car stereo screen and GROM will announce current mode.

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, iOS device or Android device with AALinQ app is connected – the music will start playing.
2. To switch between USB and AUX (EXT2) 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 to select that option.

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 or browse playlists, artists, albums on iOS or Android device.

3.3 Installation Troubleshooting

Symptom	Cause	Remedy
Stereo is not recognizing the GROM-MST4 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 millimeters 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-MST4 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 millimeters Vehicle will have to be Retrofit/Coded to accept CD changer
For Mercedes Benz Only: Stereo is not turning on with GROM installed	GROM unit is installed between the Head unit and Amplifier in the fiber-optic loop	Install the GROM unit in the fiber-optic loop after the Amplifier
GROM installed seems to be draining battery	GROM is installed to Switched Ignition/Accessory power source instead of 12volt Constant power and not allowing the rest of the Fiber-optic loop device to sleep properly	Make sure to connect GROM unit to a 12volt Constant power source

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

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Chapter 5 – Warranty

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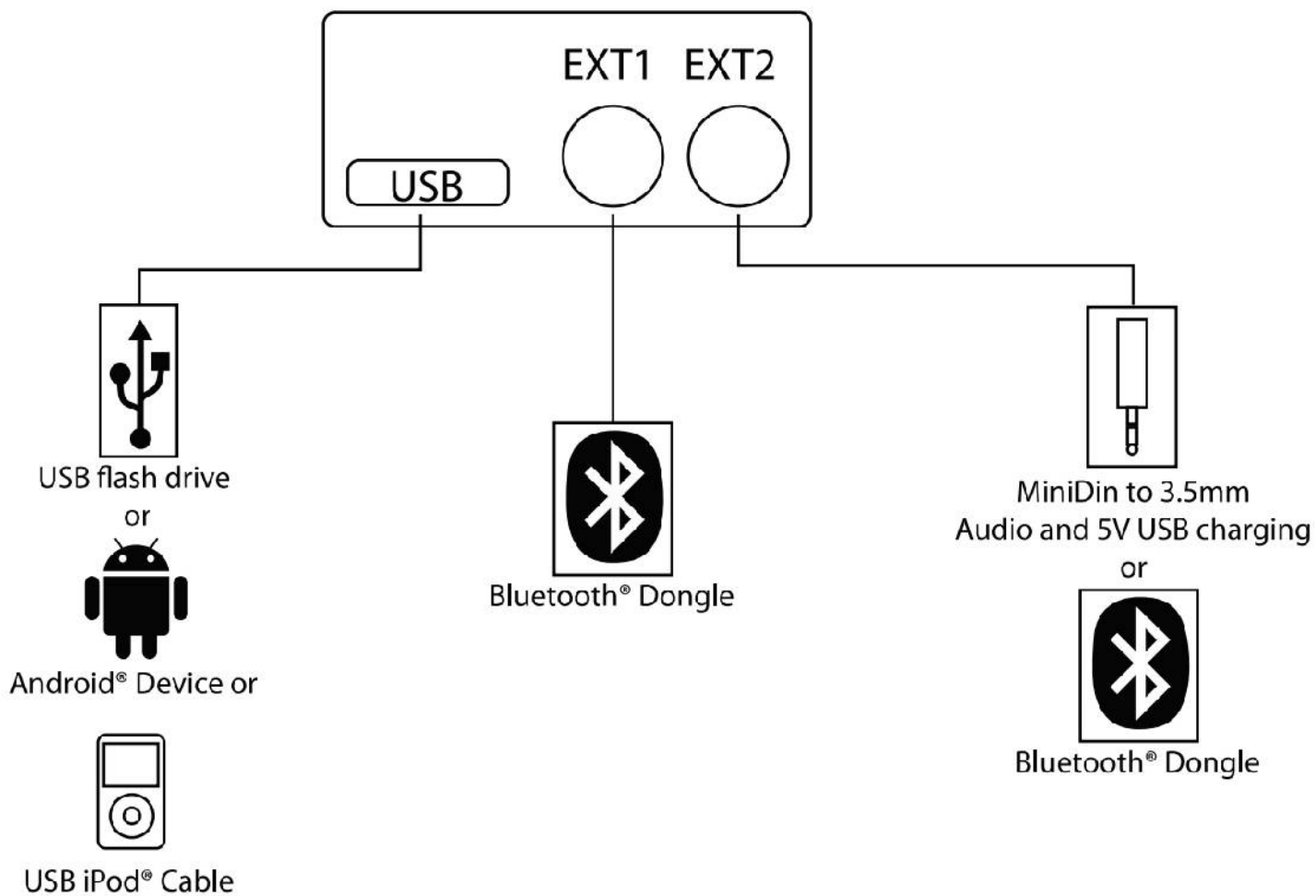
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