Media Interface Plus (MIP) Operation
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# Mercedes-Benz Media Interface Plus Compatibility Matrix

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<th>MY11</th>
<th>GLK-Class - X204</th>
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*Media Interface Plus Part Number: A2129009305

*as of 9/30/2010*
Objectives

The information contained within this document provides supplemental information and procedures in the following areas:

1. Pairing Media Interface Plus (MIP) to the Head Unit (Page 7)
2. Pairing phone (iPhone example) to the MIP (Page 15)
3. Pairing phone to Head Unit (Page 18)
4. Pandora Internet Radio Overview / Setup (Page 25)
5. Playing Pandora Internet Radio (Page 28)
6. Bluetooth™ Audio Streaming (Page 31)
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9. SMS / Email Reading & Responding (Page 46)
10. MIP Update Procedure (Page 52)
11. MIP Resources (Page 54)
Media Interface Plus (MIP) Overview

• Plug & play solution for most vehicles equipped with media interface (518)

• Features / functions * / **:
  – Pandora Internet Radio
  – Bluetooth™ Audio Streaming
  – Phone book (business card) download
  – iPod / iPhone video (cable needed)
  – SMS / email reader through vehicle loudspeaker (text to speech)
    • BB with messaging access profile required
    • Additional phones after launch

Note: i-devices will be charged 5V/12V

* - Not all features/functions listed will be available at launch
  - Additional features will be added in future and performed via USB update
** - If supported by mobile device
Component Overview

• MIP kit contains:
  – Instructions
  – Control unit
  – Mini-USB cable

• Bluetooth button on device
  – Large LED button/switch
  – Solid green, solid blue, flashing blue

• Mini-USB port
  – Used for software updates
  – Used for charging devices
Accessing MIP Features

- MIP is connected to “socket” in glove box, then to existing cable
- MIP features are accessed via the “Playlists” menu
1. Pairing MIP to Head Unit
MIP Pairing to Head Unit

1. The MIP must first be paired with the Head Unit!

   First, connect the MIP to the UCI connection in the glove box. This screen will appear if/when in “Audio” menu.

2. Next, highlight and select the “System” menu.
MIP Pairing to Head Unit (cont.)

3. From the System menu, highlight and select “Settings”.

4. Now, highlight and select “Bluetooth”.
5. Highlight and select “Bluetooth Device List”.

Be sure the “Activate Bluetooth” box has a check mark – this ensures Bluetooth is active.

6. Select “Update”.

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MIP Pairing to Head Unit (cont.)
MIP Pairing to Head Unit (cont.)

7. After you’ve selected “Update”, press and hold the Bluetooth button on the MIP for approx. 3 seconds.

The light on the button will now be solid green. This is the indication that the MIP is visible and can be found by the Head Unit.

8. While the Head Unit searches for devices, this screen will appear. The Head Unit may find multiple devices during its’ search.
MIP Pairing to Head Unit (cont.)

9. When the Head Unit has finished searching and found MIP, this screen will appear.

10. Now, highlight and select “MI plus”
MIP Pairing to Head Unit (cont.)

11. A passcode screen will now appear. The passcode for MIP’s is 62872 (MBUSA).

12. Enter the number and select “OK”.

Please enter the passcode here and on the Bluetooth device:

Back 0 1 2 3 4 5 6 7 8 9 CLR ok

Please enter the passcode here and on the Bluetooth device:

Back 0 1 2 3 4 5 6 7 8 9 CLR ok
MIP Pairing to Head Unit (cont.)

13. The device will now be authorized.

14. When successful, this image will appear. The MIP is now paired with the Head Unit.
2. Pairing Phone to MIP

With the MIP paired to the Head Unit, we must now pair the mobile phone to the MIP – in this example we’re using iPhone SW version 4.1 (applies to all iPhone versions – 3G, 3Gs, 4).
iPhone Example

1. Make sure Bluetooth™ is turned “ON”. This can be viewed/accessed in “Settings” menu > “General” > “Bluetooth”

2. With Bluetooth™ “ON” the MIP and Head unit will appear on the iPhone.
iPhone Example (cont.)

3. Select “MI plus”

4. When MIP is connected, this screen will appear.
3. Pairing Phone to Head Unit
Pairing Phone to Head Unit (cont.)

1. From the “Phone” menu, (at the top of the display), highlight and select the “Phone” option in the lower left corner.

2. Highlight and select “Bluetooth Phones”.

8:26
Navi Audio Phone Video System

Ready for Bluetooth Telephony...
(No Phone Authorized)

0123456789 * # + CLR Name

Phone Call Lists
3. Scroll to the right to highlight and select “Options”.

4. Next, select “External Authorization”.

NOTE: “External Authorization” is the method of phone pairing that has the highest rate of success. However, it’s important to mention that some mobile devices/phones have different search/find protocols. This means that some devices/phone have different protocols (i.e. some devices/phones “want to be found” and others “want to find a device”. In the Telematics area, this can be related to a “Master” / “Slave” relationship.
Pairing Phone to Head Unit (cont.)

5. The Head Unit is now setup to "Look" for devices. In this example we can see a screen of "Ready for External Authorization".

6. Next, look at the mobile device you’re wanting to pair with the Head Unit. In this example you can see the “MB Bluetooth” device. It’s current status is “Not Connected”. To initiate this connection, press/select the “MB Bluetooth option on the iPhone.
Pairing Phone to Head Unit (cont.)

7. Now, the Head Unit has determined that the device called “Billy’s iPhone” is requesting to be authorized. If/when this is the correct device, highlight and select “Yes”.

8. Enter a generic/memorable passcode. In this case, we’ve used “0000”.
9. Now, enter the same passcode on the mobile device/phone that was entered in the Head Unit.

10. After entering the passcode, an authorizing screen will appear. The name of the device that is attempting to be authorized will be displayed. In this case it’s “Billy’s iPhone”.

![Authorizing Screen]
11. The status of the procedure will now be displayed (Successful / Not Successful).

12. The mobile device/phone will now change status. In this case, connected will be shown.

The mobile device/phone is now connected and is able to make calls.
4. Pandora Internet Radio Overview
Pandora Account Setup

- Internet radio station(s) that can be accessed via internet & mobile devices
- Free service, with limitations
- Paid subscription has less limitations
Pandora Features/Functions

- Create stations based on what you want to listen to (artist/songs)
- Similar genre’s artist types will be automatically populated
- Feature to give an artist/song a “thumbs UP/DOWN”
- Allows additional ability to customize “your” station(s) and shuffle music
- Features setup via mobile or internet are shared between each (mobile app / internet) – login
- Can also see music video offerings, edit profile and share station lists with friends
5. Playing Pandora Internet Radio
Playing Pandora (connected)

- First, begin by having Pandora playing on the iPhone
- Connect iPhone to cable
  - Pandora Accessory screen will appear

- Select Playlists then Pandora
- Scroll through Pandora stations, then highlight and select station

**NOTE:** In this example, we’re playing pandora via the hardwired connection. It can also be played using the audio streaming method. However, it is no longer integrated into the vehicle.

You must have cellular coverage for Pandora to function. A loss of signal will result in loss of audio feed.
Integrated Pandora Features (connected)

- Pandora has a “thumbs-up” & “thumbs-down” feature.
- This can be performed on all vehicles, except NTG 3 / 3.5 using the “next” / “previous” buttons on the Head Unit

- Press & hold the “next” button on Head Unit to give a “thumbs-up”
- Press & hold the “previous” button to give a “thumbs-down”
  - Giving a song a “thumbs-down” will result in that song never being played again on the station you’re currently listening to
6. Bluetooth™ Audio Streaming
Audio Streaming Overview

• Bluetooth Audio Streaming is NOT an integrated feature, such as iPod interface or Media Interface.
• The Head Unit has limited capabilities as it relates to navigating through music files on the mobile device.
• Music selections (artist, next/previous track) are typically made via the mobile device itself.
• Some devices will/may function differently:
  – Some may prefer to default to audio files stored on phone.
  – Some may be more flexible allowing other audio file applications, such as Pandora Internet Radio.
  – Unfortunately, there is no single set of rules that encompasses all mobile devices that support audio streaming.
Audio Streaming with MIP

- Select Playlists, then Audio streaming

- Depending on the mobile device:
  - Audio files may begin to play automatically
  - Audio files may have to be “prompted” to begin play
Auto Play Feature

• MIP has setting that can be turned ON or OFF called auto play
• Feature is dependant on selection made in MIP and mobile device functions

• After making a new selection, indicator will appear
  – Auto play on
  – Auto play off
Navigating Tracks

- File playback functionality is dependent upon folder structure or playlist setup
- Use the mobile device to select a folder or playlist
- When playing audio files, next and previous tracks can be controlled/selected using:
  - Head Unit (next/prev)
  - Central Controller (if applicable)
  - Multi-function steering wheel
  - Device itself
7. Downloading Contacts

The MIP be paired with the Head Unit and the Phone paired to the MIP
Phone Book (Business Card) Download (NTG4 204)

• New Telematics Generation 4 (NTG4) has two variants
  – NTG4 204
    • Found in C-Class, GLK-Class & SLS AMG
  – NTG4 212
    • Found in E-Class Sedan, Coupe & Cabriolet

• NTG4 204 is not equipped with Bluetooth™ protocol for phonebook download
  – Phone Book Access Profile (PBAP)

Note: The following procedure only applies to NTG4 204 vehicles.
1. Highlight the “Phone” menu and select.

2. Next highlight and select “Address Book”
Downloading Contacts (cont.)

3. From this point, we’ve accessed the Address Book in COMAND. Highlight and select “Address Book” in the lower left corner of the display.

4. Highlight and select “Receive Business Card(s).”
5. This screen now appears indicating the Head Unit is ready to receive information.

6. Next, press and hold the Bluetooth button on the MIP for 1 second.

   NOTE: the light on the button should be “blue”
7. The phone book will now begin to be downloaded from the phone to the MIP and then to the Head Unit.

8. The screen will change indicating information/contacts are being received.

   NOTE: This may take up to 10 minutes depending on the amount of contacts stored to the phone.

   Example: 97 contacts took approx. 30 seconds.

   NOTE: Calls cannot be made unless the phone is paired with the Head Unit – covered previously.
Business Card Download Notes

- NTG4 204 is the only current production Head Unit that will not support Phone Book download directly from the phone.
- Always pair the MIP to COMAND first, then phone to MIP.
- Contact download to COMAND has to be initiated manually.
  - Any changes on the phone side will not be transferred to COMAND unless initiated manually following the process outlined in this document.
- Phone Book in MIP and COMAND are not synchronized.
  - Import of contacts simply adds additional entries to COMAND.
  - COMAND does not distinguish duplicate entries.
    - i.e. 1\textsuperscript{st} download of contacts has 50 entries, 2\textsuperscript{nd} download of contacts has 51 entries > COMAND will have 101 entries with 50 of them duplicated.
- Erasing entire COMAND phone book requires System Reset which also erases other customer data (presets, navigation entries, etc.).
  - Entries can be deleted individually from COMAND address book.
8. iPod / iPhone Video

Note: This feature is available for vehicles equipped with NTG2.5 Head Unit ONLY. An additional cable is needed – not supplied with original kit purchase. Part # - A 001 827 99 04 (available 12-21-10)
Playing iPod / iPhone Video

- Only for NTG 2.5 vehicles
- iPod / iPhone video is supported using additional cable
  - Part number (XXXXX)
- Connect i-device to MIP
- Select Playlist, then iPod video

- Video files stored on i-device will be displayed
- Scroll, highlight and select the video you’d like to watch
Playing iPod / iPhone Video (cont.)

- Video will begin to play from last point viewed
- Video actions must be performed from iPod / iPhone
  - Rewind, pause, fast forward, etc.

- Video will may not play automatically
- Select Video and then the AUX option from the video menu
- Viewing criteria is same as other COMAND based video viewing
  - Vehicle must be in park to view in COMAND
  - Can be sent to factory installed Rear Seat Entertainment System
9. SMS / Email Reading & Responding
SMS / Email Reading & Responding

Overview

• Currently, only certain BlackBerry phones are approved for SMS and email reading and responding

• Other phones will be “coming soon” – refer to resources section

• When MIP and phone are connected to vehicle, there is no indication of a new SMS or email via the vehicle (no audio or visual prompt)

• MIP recognizes some “common” text messaging abbreviations
  – Example: LOL = laughing out loud
Selecting SMS or Email

- From Playlists, highlight and select SMS reading or Email reading

- List of received (new & old) message will be displayed

- Highlight and select a message

- Message will be read via vehicle loud speakers
Reading SMS / Email

• Message that has been selected can be viewed (partially), but will be read in its entirety

• To respond to message, highlight and select Message reply
Possible Responses

• List of possible responses will be displayed

• Response cannot be customized using integrated vehicles features

• Select the best / most appropriate option for the response
Responding to SMS / Email Message

- After making response selection, it will appear in the display

- Press and hold the forward/next button on the head unit to send the message

- Confirmation screen of message sent will be displayed
10. MIP Update Procedure
MIP Update Process

- MIP kit has additional mini USB cable used for updates and mobile device charging
- Cable is also used when performing software update
- Software updates performed using USB drive

- Connect MIP to vehicle along with additional cable
- Select Playlists, Settings, then “MI plus software update
- Connect USB drive
- Watch the LED on the MIP
  - Light will turn on momentarily then go off
- Update is complete
  - Disconnect USB
11. MIP Resources
www.Pardora.com/auto

- Section dedicated to Mercedes-Benz from website

- Pandora FAQ sheet, Mercedes-Benz specific

- Mobile device list
mbusa.com/mercedes/service_and_parts/accessories

- Support information can be found on mbusa.com under the accessories option

- Vehicle compatibility matrix
  - Identifies which function/feature works with which chassis & year

- FAQ sheet
THE LEARNING LINK
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