



Expand Your Factory Radio

add
iPod®



VOLKSWAGEN

**Owner's Manual
Media Gateway
PXAMG**

PGHVW1



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Rev. 05-06-08
INST010

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Media Gateway & Optional Add-ons



1. Introduction

Thank you for purchasing the Peripheral Electronics® Media Gateway. The Media Gateway is designed to provide endless hours of listening pleasure from your factory radio. To ensure that your HD Radio tuner or iPod performs correctly with your radio, we recommend that you read this entire manual before attempting installation of the Media Gateway. The Media Gateway allows connectivity for iPod and HD Radio (HDRT sold separately), enabling full control of these devices from the factory installed radio. It also retains original system features such as Satellite Radio (if equipped).

2. Precautions

UPDATING iPod FIRMWARE

For proper operation of the Media Gateway, your iPod must be updated with the most recent version of firmware from Apple. This is done on your computer. To update the software on the iPod go to:

<http://www.apple.com/ipod/download/>.

Follow the directions on the website to complete the download. There is no charge for this update.

PREVENTING DAMAGE TO YOUR VEHICLE OR iPod.

Some installations require you to make wiring connections. To eliminate the risk of an electrical short, we recommend disconnecting the vehicle's battery prior to installation. If you do not feel comfortable making these connections, we suggest you seek professional installation. We recommend that the iPod be disconnected from the interface when the vehicle is not in use.

PROPER MOUNTING LOCATION

Securely install the interface in a location free from; heat, humidity, moving parts, sharp metal edges or direct sunlight. We recommend securing the interface to a suitable location using; double sided tape, Velcro™ or zip-ties.

3. Compatibility Notes

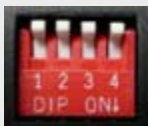
2006-2008 VW Jetta, Rabbit, Passat, Eos, and GTI

Radio must be Non-Navigation and have a button labeled "SAT" to be compatible

Refer to www.peripheraelectronics.com for most updated application guide.

4. Dipswitch Settings

After removing the radio from the vehicle, identify the manufacturer of the radio. Two companies make the radios featured in these VW vehicles. If the model number sticker is on the side of the radio it is a Delphi brand radio. If the model number sticker is on the top of the radio it is a Panasonic brand radio.



For Delphi radios all dip switches must be in the OFF position (up) for the Media Gateway to function.



For Panasonic radios only dipswitch #2 needs to be turned ON (down), the rest must be OFF (up) for the Media Gateway to function.

5. Installation

Before installing the Media Gateway, be sure you have correctly set the dipswitches according to section four.

NOTE: DO NOT disconnect the wiring from the “passenger airbag light” on the dash bezel. Disconnecting this harness will cause an airbag light to illuminate in the gauge cluster which needs to be reset by a Volkswagen dealership.

1. When making electrical connections it is always recommended that the vehicle's battery be disconnected from the electrical system before performing the installation.
2. Carefully remove the radio from the dash of the vehicle. We recommend the use of Peripheral Part # GET (when applicable) to remove the radio from the dash. These tools are specifically designed to be used to remove Volkswagen radios. This will provide access to the factory radio connectors where you will connect the Media Gateway harness.
3. Disconnect the factory harness from the back of the radio. Disconnect the antenna connector from the radio.
4. Connect the 8-Pin iPod docking cable into the first port on the Media Gateway furthest away from dipswitches. Carefully run the 11 foot iPod cable behind the dash to the location where the iPod will be mounted or stored (for example; the glove box or center console). This location

may vary based on the vehicle, and customer's preference. When running this cable through the dash, be sure to secure it away from moving parts or sharp metal edges that may damage the cable.

5. If connecting the HD Radio tuner (HDRT sold separately) Plug the 3 foot HD Radio cable (8-Pin mini-din to 8-Pin mini-din) into the second port (closest to the dipswitches) on the Media Gateway. Connect the other end of this cable into the HD Radio tuner. Connect the factory **WHITE** antenna cable into the antenna connection on the HD Radio tuner (HDRT). For best performance of the HDRT use an amplified antenna adaptor to make this connection. We recommend the use of a Best Kits BAADIN22 or equivalent. If the Tan connector is connected into the HDRT it will not receive any AM reception.

6. Plug the male connector on the PGHVW1 harness into the port on the back of the radio. Next, connect the factory harness into the female connector on the PGHVW1 harness. Be sure to make a firm connection but do not force it. Plug the black micro-fit 24-pin connector on the PGHVW1 harness into the PXAMG Media Gateway box.

7. To complete the installation secure the Media Gateway (PXAMG) and HD Radio tuner (HDRT) into the cavity behind the dash. Be sure that the cables and interface modules are not near moving parts or sharp metal edges as they may damage the cables. To prevent rattling noises inside the dash, use zip ties, or electrical tape, or other fasteners to mount the interfaces to the factory wiring or installed audio components (for example under the factory Satellite tuner (if present).

8. With all connections made, reconnect the vehicle's battery, insert the key into the ignition, and turn the vehicle on. Check for proper operation of the Media Gateway and HD Radio tuner before reinstalling the factory dash panels.

9. When first powering up the vehicle with the radio reconnected, "CODE" may appear on the screen. This is a safety feature of the VW radio. If you see this message, DO NOT enter a code, simply let the radio sit on this screen for about 10 seconds, then turn the vehicle off. Disconnect the gateway harness from the vehicle. Reconnect the gateway harness to the vehicle. Normal operation should resume.

10. NOTE: The first time that you access the Gateway, your radio may display "DEV INIT" while the device is initializing. If this is displayed, please wait one minute the cycle the ignition off and on. Access "SAT" mode again to begin normal gateway operation.

6. iPod Operation

The Media Gateway is accessed by pressing the “SAT” button to switch the radio to the Satellite radio source. In the Satellite Radio source, you will have access to all the available Media Gateway sources. Press the “CAT FLDR” button, ▲ or ▼ button to cycle through the Media Gateway sources. (AM, FM, IPOD, AUX input, SAT) when the desired option is displayed on the screen, wait 3 seconds and the radio will select the displayed option.

Press the “CAT FLDR” or “▲” button until “IPOD” is displayed. Wait 3 seconds, the radio will automatically enter the iPod mode.

PANASONIC Radio Controls

Next Track

Turn the Tune knob Clockwise to skip to the next track.

Previous Track

Turn the Tune knob Counter-clockwise to go back to the previous track.

Enter Browse menu / make a selection

To enter the Browse menu, press in the tune knob. While in the Browse menu press the “CAT FLDR” or “▲” “▼” buttons to cycle through Browsing options. (Playlist, Artist, Album, Genre and Composer) when the desired Browsing method is displayed, press in the tune knob to select that option. When the radio displays “TR:” you are about to select a track to play, when you press in the tune knob and select a track, the iPod will play that song through the audio system.

Menu back

Press “Seek ▼” to move back one folder in the menu. This allows you to change the Browsing method. For example if you select to Browse by album, and you decide to Browse by artist instead, press the “SEEK ▼” button to go back.

Panasonic Steering Wheel controls

The Multifunction display in the gauge cluster must be in “Audio mode” for the steering wheel controls to operate the Media Gateway.

Next track

Press the “▲” button on the SWC to advance to the next track.

Previous track

Press the “▼” button on the SWC to go back to the previous track.

Enter Browse menu / make a selection

Press the “OK” button on the SWC to enter the Browse menu. Press “OK” to select the displayed option in the Browse menu.

While in the Browse menu, change your browsing method by pressing the “▲” and “▼” buttons on the steering wheel controls.

Delphi Radio Controls

Next Track

Turn the Tune knob Clockwise to skip to the next track.

Previous Track

Turn the Tune knob Counter-clockwise to go back to the previous track.

Enter Browse menu / make a selection

To enter the Browse menu, press Preset # 2. While in the Browse menu press the “CAT FLDR” or “▲” “▼” buttons to cycle through Browsing options. (Playlist, Artist, Album, Genre and Composer) when the desired Browsing method is displayed, press Preset # 2 to select that option. When the radio displays “TR:” you are about to select a track to play, when you press Preset # 2 and select a track, the iPod will play that song through the audio system.

Menu back

Press Preset # 1 to move up one folder in the menu. This allows you to change the Browsing method. For example if you select to Browse by album, and you decide to Browse by artist instead, press Preset # 1 to go back.

Exit Browse Menu

Press Preset # 3 to exit the Browse menu and continue playing the current song.

Rewind

Press Preset # 5 to fast forward, press Preset # 5 again to play.

Fast Forward

Press Preset # 6 to fast forward, press Preset # 6 again to play.

Random modes

Press Preset # 4 to toggle between the random modes (Song, Album, Off.)

7. HD Radio Operation (if equipped)

Press the “CAT FLDR” or “▲” button until “HD-AM” or “HD-FM” is displayed. Wait 3 seconds, the radio will automatically enter the HD Radio mode.

PANASONIC Radio Controls

Seek Up

Press the “SEEK▲” button to seek up to next available station.

Seek Down

Press the “▼SEEK” button to seek down to the next available station.

Manually Tune

Turn the Tune knob to manually tune. Clockwise will tune up, Counter-clockwise will tune down.

Storing stations into preset memory

Press in the tune knob to access the preset memory menu.

Use the “CAT FLDR” button to cycle through the preset locations (1-18FM, or 1-6 AM)

Press in the tune knob to store the current station into the location displayed on the radio, for example PRE1.

Recall a station from preset memory

Press in the tune knob to access the preset memory menu.

Use the “CAT FLDR” button to cycle through the preset locations. When the desired preset is displayed, wait 3 seconds, the radio will auto select the station.

Panasonic Steering Wheel controls

The Multifunction display in the gauge cluster must be in “Audio mode” for the steering wheel controls to operate the Media Gateway.

Seek Up

Press the “▲” arrow on the steering wheel controls to seek up.

Seek Down

Press the “▼” arrow on the steering wheel controls to seek down.

Storing stations into preset memory

Press “OK” access the preset memory menu.

Use the “▲” and “▼” buttons to cycle through the preset locations (1-18FM, or 1-6 AM)

Press "OK" to store the current station into the location displayed on the radio, for example PRE1.

Recall a station from preset memory

Press "OK" to access the preset memory menu.

Use the "▲" and "▼" buttons to cycle through the preset locations. When the desired preset is displayed, wait 3 seconds, the radio will auto select the station.

Delphi Radio Controls

Seek Up

Press the "SEEK▲" button to seek up to next available station.

Seek Down

Press the "▼SEEK" button to seek down to the next available station.

Manually Tune

Turn the Tune knob to manually tune. Clockwise will tune up, Counter-clockwise will tune down.

Storing stations into Preset memory

Tune to a station you wish to save into Preset memory. Press and hold the Preset button (1-6) where you want to store the preset. Holding the preset button for two seconds will store the station into memory.

Recall a station from Preset memory

Press the preset button (1-6) to recall the station stored in that location.

8. Selecting AUX

Press the "CAT FLDR" or "▲" button until "AUX" is displayed. Wait 3 seconds, the radio will automatically enter the Auxiliary audio input mode.

9. Selecting Factory Satellite Radio (if equipped)

Press the "CAT FLDR" or "▲" button until "SAT" is displayed. Wait 3 seconds, the radio will automatically enter the Satellite Radio mode.

For instructions on the operation of the factory installed Satellite Radio tuner, please reference the owner's manual supplied with the vehicle.

NOTE: when in Factory Satellite radio mode, to change to another source, iPod, HD Radio, etc. Press in the Tune knob twice (2X) then use the "CAT FLDR" or "▲" and "▼" buttons to cycle through the available Media Gateways sources.

10. Troubleshooting

Symptom	Cause	Remedy
Radio shows iPod not connected	iPod cable is not connected to iPod or Gateway.	Verify the docking cable is connected to the Media Gateway, and the iPod
I can not correctly control the iPod through the radio.	The iPod firmware may be out of date.	Update iPod firmware for free at http://www.apple.com/ipod/download
I have updated my iPod's firmware and still have control issues	Sometimes the iPods needs to be reset	Press and hold the click wheel (center button) and the menu button for 10 seconds. This will reboot the iPod. YOU WILL NOT LOSE MUSIC on the iPod by doing this reset
I don't see iPod artist or song information on the screen	The radio is displaying a different text field	Press the Text / Scan button to see text
I can't use my iPod's click wheel to select music	The iPod is in external control mode. This allows text to be displayed on the radio screen	Press the Aux / Sat button and select AUX 2 source to control the iPod manually using the click wheel
The Media Gateway does not recognize the HD Radio tuner (HDRT)	The HD tuner was not properly connected when the PXAMG was first connected and initialized.	HDRT must be connected before the PXAMG is powered on . Disconnect the PXAMG from the vehicles harness for 5 minutes. Verify the 8 pin DIN HDRT cable is securely connected at both ends before reconnecting the vehicle harness.
Radio shows "DEV INIT"	Gateway device is initializing	This only occurs the first time the PXAMG is powered on. Wait one minute, cycle ignition off and on then enter SAT Mode.
When I listen to the factory AM or FM radio there is only static, no audio.	Factory antenna cable is connected to the HD Radio tuner.	Use Gateway to access HD Radio source. This will provide all AM and FM reception for your vehicle.
No AM or FM reception using the HD Radio source	Factory antenna cable is not connected to the HD Radio tuner (HDRT)	Remove from factory radio, connect into HDRT module. Note* We recommend a Best Kits BAADin22
HD Radio station quality fluctuates or is lost randomly	The HD Tuner is temporarily losing reception of the Digital HD Radio broadcast signal	This is expected performance. The Digital HD Radio playback will resume in areas of higher broadcast signal strength.
I receive FM but no AM stations	Poor antenna connection	Verify that the WHITE antenna connector is connected to the HDRT, using a BAADin22 or equivalent adapter.



For Best Performance Have It Professionally Installed.



11. Warranty Information

One Year Limited Warranty

The quality controls used in the manufacture of this product will ensure your satisfaction. This warranty applies only to the original purchaser of this product from an authorized Peripheral Electronics dealer. This warranty covers any supplied or manufactured parts of this product that, upon inspection by Peripheral Electronics authorized personnel, is found to have failed in normal use due to defects in material or workmanship. This warranty does not apply to installation expenses. Attempting to service or modify this unit, operating this unit under conditions other than the recommended voltage will render this WARRANTY VOID.

Unless otherwise prescribed by law, Peripheral Electronics 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 Peripheral Electronics product are guaranteed for a period of 1 year as follows:

Within the first 12 months from date of purchase, subject to the conditions above, Peripheral Electronics will repair or replace the product at their discretion, if it is defective in material or workmanship providing it is returned to an Authorized Peripheral Electronic's Dealer, with PROOF OF PURCHASE from an authorized Peripheral Electronics dealer.

Warning:

This equipment may be reset by unintentional electrostatic discharge during operation. Exposure to direct sunlight or extreme heat may cause damage or malfunction.

FCC Class B Radio Frequency

Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorientate or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that of which the receiver is connected.
4. Consult the dealer or an experienced radio / television technical for help.

Notice : The changes or modifications not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.



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