◉simple®

Expand Your Factory Radio

add
iPod®

HD Radio READY
PXAMG
Peripheral
Automotive Media Gateway

GM

Owner's Manual
Media Gateway
PXAMG

PGHGM3

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Peripheral
TECHNOLOGY

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Media Gateway & Optional Add-ons

Factory Radio Not Included

Media Gateway Harness
Part #: PGHGM3

iPod Not Included
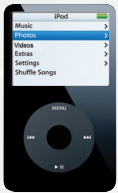
11Ft. iPod Cable

Media Gateway
Part #: PXAMG

3Ft. HD Radio Cable

HD) Radio®

Antenna Adapter

**HD Radio™ Tuner
(sold separately)**
Part #: HDRT

* Required for most vehicles. (sold seperately)

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 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 the HD Radio tuner (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, VelcroTM or zip-ties.

3. Compatibility

Please visit **www.peripheralelectronics.com/apps** to verify your vehicle's compatibility.

4. Dipswitch Settings

All 4 dipswitches MUST be set in the OFF (up) position for proper operation. (See fig.1 on next page)
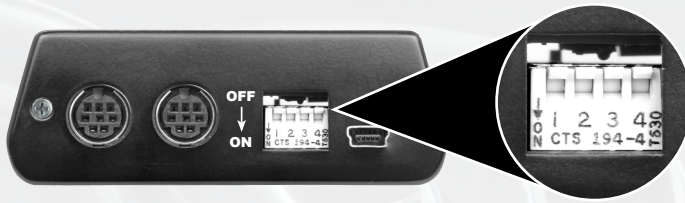
Fig. 1 Side view of interface with dip switches in correct position

5. Installation

1. When making electrical connections we always recommended disconnecting the vehicle's battery from the electrical system before performing the installation.

2. Carefully remove the trim panels covering the 7mm bolts that secure the radio into the dash cavity. Remove these bolts, and carefully pull the radio from the dash of the vehicle. This will provide access to the factory radio connectors where you will connect the Media Gateway harness.

3. Disconnect the factory 24-Pin harness and 12-Pin harness from the back of the radio (if present). Disconnect the antenna from the radio.

4. Connect the 8-Pin iPod docking cable into the first port on the Media Gateway (farthest 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 will vary based on the vehicle, and the customer's prefrence. 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), make the following connections before connecting the PXAMG to the vehicle. 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 antenna cable into the antenna connection on the HD Radio tuner (HDRT) Using a BestKits BAA5 antenna adaptor or eqivilalent if needed to make this connection.

6. Locate the 24-pin and 12-pin male connectors on the PGHGM3 harness, plug these connectors into the back of the radio. Plug the Black micro-fit 24-pin connector on the PGHGM3 harness into the PXAMG Media Gateway box.

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Before connecting the vehicle's harness to the PGHGM3 harness, locate the Pink and Pink/Black wires on this harness. The Male and female 24-Pin connectors each have a Pink and Pink/Black wire on them. There are also Pink and Pink/Black wires run outside of the main bundle of wires on the 24-pin micro fit harness. One of these wires will need to pass from the Factory wiring harness, through the media gateway, to the factory radio. The other will need to be disconnected (this disconnected wire must NOT pass through from the vehicle to the radio.

-- For **Malibu and Malibu Maxx** connect the solid Pink wires on the male and female 24-Pin connectors to the long Pink and Pink/Black wires run outside the main bundle of wires on the PGHGM3 harness.

-- For **Cobalt and G6** connect the Pink/Black wires on the male and female 24-Pin connectors to the long Pink and Pink/Black wires run outside the main bundle of wires on the PGHGM3 harness.

Plug the vehicle's 24-pin and 12-pin male connectors from the vehicle's wiring harness into the PGHGM3 connectors.

7. To complete the installation secure the Media Gateway (PXAMG) and HD Radio tuner (HDRT) into the cavity in the dash behind the radio. 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, tape, or other fasteners to mount the interfaces to the factory wiring or installed audio components.

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 if installed before reinstalling the factory dash panels.

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

10: NOTE: If the radio does not turn on, when the vehicle is on, the data wire configuration is not correct. Please refer to step 6 above.

6. iPod Operation

Entering Mode Select Menu
Leave and re-enter the SAT mode to enter the mode select menu. This can be accomplished by pressing the BAND button a few times until
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XM is displayed on the screen. Once in the Mode Select Menu, turn the rotary tune knob to scroll through available sources. Once "IPOD" is displayed, press preset #2 to select the displayed mode.

Next Track
Turn the rotary tune knob to the right one notch to advance to the next track.

Previous Track
Turn the rotary tune knob to the left one notch to move back to the previous track.

Fast Forward
Press Preset #6 to fast forward the song that is playing. Press Preset #6 again to resume play.

Rewind
Press Preset #5 to rewind the song that is playing. Press Preset #5 again to resume play.

Entering Browse Menu / Select
Press preset #2 to enter the "BROWSE" menu. While in the Browse menu turn the tune knob 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 UP
Press Preset #1 to move back one folder in the "BROWSE" menu. For example, if you selected to Browse by album, then decided to Browse by artist instead, press Preset #1 to go back to the previous option in the Browse menu.

Exit Browse menu
Press Preset #3 to exit the Browse menu.

Steering wheel controls
If the vehicle is equipped with Steering wheel controls, Press the "Λ" button while the iPod is playing to skip to the next track.
Press the "V" button while the iPod is playing to return to the previous track. These steering wheel control buttons can also be used to cycle through the Browse menu. Press Preset #2 to enter the Browse menu, and to select the displayed Browse menu option.

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Example of Browsing by artist
Press Preset #2 to enter the Browse menu.
"PL:LIST" will appear on your display.
Turn the rotary tune knob until "AR:ARTIST" is displayed.
Press Preset #2 to select browse by Artist.
The list of Artists on your iPod will be displayed one at a time in alphabetical order.
"AR" will be displayed in front of the artist's name to indicate that you are searching for an artist.
Turn the rotary tune knob to cycle through the artists.
When the desired artist is displayed on the radio,
Press Preset #2 to select the artist and display the albums by that artist.
The Albums from the selected Artist will be displayed one at a time in alphabetical order. "AL" will be displayed in front of the name of the album to indicate you are searching for an album.
Turn the rotary tune knob to cycle through the albums.
Once the desired album is displayed,
Press Preset #2 to select the desired Album.
The first song in the album will be displayed. "TR" will be displayed in front of the song title to indicate that a "track" or song title is being displayed.
Turn the rotary tune knob to cycle through the songs in the selected album.
Songs are listed in the order in which they appear in the album, not alphabetically.
Once the radio displays the name of the desired song,
Press Preset #2 to select and play the desired song.
The display will automatically change to display and scroll the title of the chosen song.

7. HD Radio Operation

Entering Mode Select Menu
Leave and re-enter the SAT mode to enter the mode select menu. This can be accomplished by pressing the BAND button a few times until XM is displayed on the screen. Once in the Mode Select Menu, turn the rotary tune knob to scroll through available sources. Once "HD Radio" is displayed, press Preset #2 to select the displayed mode.

Tune Up
Turn the rotary tune knob to the right to manually tune up.

Seek Up
Press the "SEEK /\" button to seek up to next available station.

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Tune Down
Turn the rotary tune knob to the left to manually tune down.

Seek Down
Press the "SEEK V" button to seek down to next available station.

Changing Bands
To switch between AM and FM bands, press Preset #5 to toggle between AM and FM modes.

Store Presets
To Store a station into the Preset memory, tune to the station, press Preset #2 to enter the preset menu. Turn the tune knob to select the preset location (1-18) where you wish to store the preset. When the preset position is displayed (for example PRE1) press "SEEK V" to store the preset into memory.
The screen will display "PR SAVED" and your preset has been stored into memory.

Recall Presets
To recall a preset saved in memory, press Preset #2 to enter the preset menu. Turn the tune knob to scroll through the stored preset stations. When the desired preset is displayed, press the "SEEK Λ" button to select it.

Exit preset menu
To leave the preset menu simply wait 10 seconds. After 10 seconds of inactivity the media gateway will automatically exit the menu.

Changing Display:
Press the "Disp" button to display artist and song information if the current HD Radio station is transmitting that information.

Steering wheel controls
If the vehicle is equipped with Steering wheel controls, Press the "Λ" button to seek up to the next station. Press the "V" button to seek down to the next station.

8. Selecting AUX Input

Entering Mode Select Menu
Leave and re-enter the SAT mode to enter the mode select menu. This can be accomplished by pressing the BAND button a few times until XM is displayed on the screen. Once in the Mode Select Menu, turn the rotary tune knob to scroll through available sources. Once "Aux 1" or "Aux 2" is displayed, press Preset #2 to select the displayed mode.

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9. Selecting Factory Installed Sat (if equipped)

Entering Mode Select Menu

Leave and re-enter the SAT mode to enter the mode select menu. This can be accomplished by pressing the BAND button a few times until XM is displayed on the screen. Once in the Mode Select Menu, turn the rotary tune knob to scroll through available sources. Once "SAT" is displayed, press Preset #2 to select the displayed mode.

Factory Sat Operation

Refer to the owners' manual that came with your vehicle.

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* some vehicles need to use the supplied antenna adaptor to make this connection.
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.

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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 Elecronics 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 Elecronics 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 recption, 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 reciever.
3. Connect the equipment into an outlet on a circuit differant from that of which the reciever 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.

For Best Performance Have It Professionally Installed.

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