

# Expand Your Factory Radio

add

# iPod®



## GM

**Owner's Manual  
Media Gateway  
PXAMG**

## PGHGM2



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# Media Gateway & Optional Add-ons

**\*The Media Gateway will only support 2 inputs.**



Factory Radio  
Not Included

iPod  
Not Included



Media Gateway Harness  
Part #: PGHGM2



11Ft. iPod Cable

Media Gateway  
Part #: PXAMG



PXAMGSR Cable  
(sold separately)



3Ft. HD Radio Cable

**HD Radio®**



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



Antenna Adapter

Sold Separately

# 1. Introduction

Thank you for purchasing the iSimple® 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 , Sirius Satellite Radio tuner (SCC1 sold separately) 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 and rear seat entertainment (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.

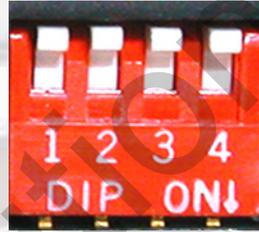
### 3. Compatibility

Your vehicle MUST either be equipped with, or have the ability to support Satellite Radio. Please visit [www.isimplesolutions.com](http://www.isimplesolutions.com) for the most up to date application information and to verify your vehicle's compatibility.

### 4. Dipswitch Settings

All 4 dipswitches MUST be set in the OFF (up) position for proper operation.

**ALL VEHICLES**



## 5. Installation

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 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 16-Pin harness and 14-Pin harness from the back of the radio. 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 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), 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 iSimple BAA20 antenna adaptor if needed to make this connection.
6. If connecting the Satellite Radio tuner (SCC1 sold separately), make the following connections **before connecting the PXAMG to the vehicle**. Plug the black end of the 3 foot PXAMGSR (8-Pin mini-din to 8-Pin mini-din; sold separately) into the second port (closest to the dipswitches) on the Media Gateway. If you are installing the Satellite Radio Tuner with the HDRT, connect the PXAMGSR cable to the port farthest from the dipswitches. Connect the gray end of this cable into the Satellite Radio tuner.
7. Locate the 14-pin and 16-pin female connectors on the PGHGM2 harness. Plug the vehicle's 14-pin and 16-pin male connectors into the PGHGM2 connectors. Locate the 3 wires with the bullet connectors on the PGHGM2 harness (Purple/White, Purple, and Orange/Black) Locate the GREEN wire in the 14-pin factory connector that lines up with one of the 3 wires mentioned above. Disconnect the bullet connector on the corresponding wire. Connect these free ends to the bullet connectors on the orange and orange/black wires coming from the 24 pin black Gateway harness. Leave the other two wires on the PGHGM2 harness disconnected as they are not needed. Plug the male connectors of the PGHGM2 harness into the back of the radio. Plug the Black micro-fit 24-pin connector on the PGHGM2 harness into the PXAMG Media Gateway box.

**Note:** In some instances there may be more than one GREEN wire which lines up with the 3 wires mentioned above. Since only one needs to be connected you will need to try one at a time until the radio recognizes the interface.

8. 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.

9. 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.

10. 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.

## 6. iPod Operation

### Entering Mode Select Menu

Press the "**BAND**" button a few times until XM is displayed on the screen. Immediately turn the rotary **TUNE KNOB** in the top right hand corner to scroll through available sources. Once "IPOD" is displayed, press the "**FWD>>**" button 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 "**► I SEEK**" to fast forward the song that is playing. Press "**► I SEEK**" again to resume play.

### Rewind

Press "**I ◀ SEEK**" to rewind the song that is playing. Press "**I ◀ SEEK**" again to resume play.

### Entering Browse Menu / Select

Press the "**FWD>>**" button to enter the "BROWSE" menu or to make a selection while in the "BROWSE" menu.

### Menu UP

Press the "**<<REV**" button to move up one folder in the "BROWSE" menu.

### Exit Browse menu

Press "**<<REV**" to move up one step in the browse menu, each time it is pressed. When the radio displays Browse, wait several seconds, to exit the browse menu.

## Browse by Artist

**Please Note: Ipods with large amounts of music on them require time to synchronize with the Media Gateway. While this process is taking place neither the Browse Menu or Mode Select Menu will be available. This process takes place every time you enter the iPod mode and can last up to one minute.**

Press “FWD>>” to enter the browse menu.

“PL:LIST” will appear on your display.

Turn the rotary tune knob until “AR:ARTIST” is displayed.

Press “FWD>>” 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 the “FWD>>” button 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 the “FWD>>” button 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 the “FWD>>” button 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

Press the “BAND” button a few times until XM is displayed on the screen. Immediately turn the rotary TUNE KNOB in the top right hand corner to scroll through available sources. Once “HD-FM” is displayed, press the “FWD>>” button to select the displayed mode.

### Tune Up

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

### Seek Up

Press the ► I SEEK button to seek up to next available station.

### Tune Down

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

### Seek Down

Press the I ◀SEEK button to seek down to next available station.

## Changing Bands

To switch between AM and FM bands, press the CAT button until AM or FM is displayed on the screen. Press one of the two softkeys under the text to select the desired band.

## Store Presets

To Store a station into the Preset memory, tune to the station, to enter the preset menu, press the “FWD>>” button. Turn the tune knob in the upper right corner to select the preset location (1-18) where you wish to store the preset. when the preset position is displayed (for example PRE1) press **I◀SEEK** 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 the “FWD>>” button to enter the preset menu. use the tune knob in the upper right corner to scroll through the stored preset stations. when the desired preset is displayed, press the **▶I SEEK** button to select it.

## Exit menus

Press the “<<REV” button to exit the preset menu and continue playing the current station. “EXIT” will be displayed when button is pressed. You can also wait the allotted 10 seconds and the menu will exit automatically.

## Changing Display:

Press the “i” button to display artist and track information if the current HD Radio station is transmitting that information.

# 8. Sirius Satellite Radio Operation

## Entering Mode Select Menu

Press the “BAND” button a few times until XM is displayed on the screen. Immediately turn the rotary **TUNE KNOB** in the top right hand corner to scroll through available sources. Once “SIRIUS” is displayed, press the “FWD>>” button to select the displayed mode.

## Channel Up

Turn the rotary **TUNE KNOB** clockwise to move up through the channels

## Channel Down

Turn the rotary **TUNE KNOB** counter-clockwise to move down through the channels

## Category Selection

Press the “CAT” button then press the button that corresponds with the Category you wish to select.

## Store Presets

Press and hold the preset button on which you want to store the channel.

**Please Note: If you are using the Media Gateway to add Sirius but still have factory XM installed, it is important to keep the presets in separate banks.**

## Recall Presets

Press the preset button that corresponds with the channel you want to recall.

### **Changing Display:**

Press the “I” button to display artist and track information

## **9. Selecting AUX Input**

### **Entering Mode Select Menu**

Press the “**BAND**” button a few times until XM is displayed on the screen. Immediately turn the rotary **TUNE KNOB** in the top right hand corner to scroll through available sources. Once “AUX” is displayed, press the “**FWD>>**” button to select the displayed mode.

## **10. Selecting Factory Installed Sat (if equipped)**

### **Entering Mode Select Menu**

Press the “**BAND**” button a few times until XM is displayed on the screen. Immediately turn the rotary **TUNE KNOB** in the top right hand corner to scroll through available sources. Once “SAT” is displayed, press the “**FWD>>**” button 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 <a href="http://www.apple.com/ipod/download">http://www.apple.com/ipod/download</a>
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. <b>YOU WILL NOT LOSE MUSIC</b> 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.	<b>HDRT must be connected before the PXAMG is powered on.</b> 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.