# iSimple®

# Expand Your Factory Radio

add

# iPod®

### Harness Connection ▲

## iSimple®
## GateWay™

### Automotive Media Interface

| Port 1 ▼ | Port 2 ▼ | Dip Switches (See Manual) ▼ | USB ▼ |

## GM

## Owner's Manual
## Media Gateway
### PXAMG

## PGHGM5

04-13-10

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# Media Gateway & Optional Add-ons

*The Media Gateway will only support 2 inputs.

**Factory Radio Not Included**

**Media Gateway Harness**
Part #: PGHGM5

**SIRIUS SATELLITE RADIO**

**iPod Not Included**

**Media Gateway**
Part #: PXAMG

**PXAMGSR Cable**
(sold separately)

**11Ft. iPod Cable**

**3Ft. HD Radio Cable**

**HD Radio®**

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

**Antenna Adapter**
**(sold separately)**
Part #: BAA4B

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# 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 seperately) 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.
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

Your vehicle MUST either be equipped with, or have the ability to support Satellite Radio. Please visit www.isimplesolutions.com for the most up to date application information and to verify your vehicles compatibility.

# .4. Dipswitch Settings

All 4 dipswitches MUST be set in the **OFF** (up) position for proper operation except for the 2009 Chevrolet Corvette. The 2009 Chevrolet Corvette require dip switches 1 and 2 on (down) and 3 and 4 off (up).

**VEHICLES WITH NAVIGATION**
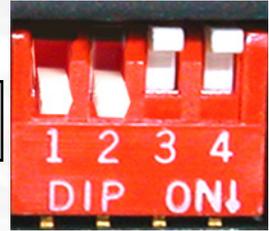


**ALL OTHER VEHICLES**
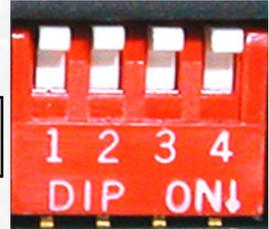
# 5. Installation

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 24-Pin harness and 12-Pin harness (if present) 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 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 separartely), make the folllowing 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 Best Kits BAA4B antenna adaptor if needed to make this connection.

6. If connecting the Satellite Radio tuner (SCC1 sold separartely), make the folllowing 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 seperately) 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. Plug in the male connectors on the PGHGM5 harness into the 24-pin port and 12-pin port on the back of the radio. Next, connect the factory 24-pin and 12-pin harness (if available) into the female connectors on the PGHGM5 harness. Be sure to make a firm connection but do not force it. Plug the Black micro-fit 24-pin connector on the PGHGM5 harness into the PXAMG Media Gateway box.

8. To complete the installation secure the Media Gateway (PXAMG) and HD Radio tuner (HDRT) or Satellite Radio tuner (SCC1) 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 securely.

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. Turn the rotary **TUNE KNOB** until "IPOD" is displayed. Press **"PRESET 6"** to select the displayed mode.

**Next Track**
Turn the rotary **TUNE KNOB** clockwise one notch to advance to the next track.

**Previous Track**
Turn the rotary **TUNE KNOB** counter-clockwise one notch to move back to the previous track.

**Fast Forward**
Press **"PRESET 2"** repeatedly to fast forward the song that is playing.

**Rewind**
Press **"PRESET 1"** repeatedly to rewind the song that is playing.

**Entering "BROWSE Menu / Select**
Press *"*PRESET 3"** to enter the browse menu or to make a selection while in the browse menu.

**Menu UP**
Press **PRESET 4** to move back one step in the browse menu

**Exit Browse menu**
After 10 seconds of inactivity the menu will time out and return to normal operation.

### Browse by Artist

**Press Preset 3 to enter the browse menu.**
"PL: LIST" will appear on your display.
**Turn the rotary TUNE KNOB until "AR: ARTIST" is displayed.**
**Press Preset 3 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 3 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 3 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 or 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 3 to select and play the desired song.**
The display will automatically change to show the title of the chosen song. Press the "TEXT" button to toggle between track title and artist name.

# 7. HD Radio Operation

**Entering Mode Select Menu**
Press the "BAND" button a few times until "XM" is displayed on the screen. Turn the rotary **TUNE KNOB** until "HD RADIO" is displayed. Press **"PRESET 6"** to select the displayed mode.

**Tune Up**
Turn the rotary **TUNE KNOB** clockwise to manually tune up.

**Seek Up**
Press the "**SEEK>"** button to seek up to next available station.

**Tune Down**
Turn the rotary **TUNE KNOB** counter-clockwise to manually tune down.

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

**Changing Bands**
Press the **"BAND"** button to switch between AM and FM bands.

**Store Presets**
Tune to the station you wish to store as a preset. Press and hold the desired preset button for 2 seconds. A beep will be heard when the station has been stored sucessfully.

**Recall Presets**
Press the preset button (1-6) for the preset you wish to recall.

**Changing Display**
Press the **"DISPL"** button to toggle between HD artist and HD title.

# 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** to scroll through the available sources. Once "SIRIUS" is displayed, press **"PRESET 6"** 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 Up**
Press the "**SEEK>"** button to move up through the categories.

**Category Down**
Press the "**<SEEK"** button to move down through the categories.

**Store Presets**
Tune to the station you want to store as a preset.  Press and hold the preset button on which you want to store the channel.

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

**Changing Display:**
Press the **"DISPL"** 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** to scroll through the available sources. Once "AUX" is displayed, press **PRESET 6** to select the displayed mode.

# 10. Selecting Factory Installed XM Radio

**Entering Mode Select Menu**

Press the **"BAND"** button a few times until "XM" is displayed on the screen. Immediately turn the rotary **TUNE KNOB** to scroll through the available sources. Once "SAT" is displayed, press **PRESET 6** to select the displayed mode.

**Factory Sat Operation**

Refer to the owners' manual that came with your factory radio.

# 11. 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 a few minutes, 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. |

# 12. Warranty

## 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 iSimple® dealer. This warranty covers any supplied or manufactured parts of this product that, upon inspection by iSimple® 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, iSimple® 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 iSimple® 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, iSimple® will repair or replace the product at their discretion, if it is defective in material or workmanship providing it is returned to an Authorized iSimple® dealer, with PROOF OF PURCHASE from an authorized iSimple® 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. Re-orientate 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.

# Notes

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**iSimple**

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