



Pacific Accessory Corporation



iPAC-GM3
IPOD INTERFACE
WITH AUXILIARY INPUT

**COMPATIBLE
WITH:**



LAN

INSTRUCTION MANUAL

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Chapter 1 - Getting Started

1.1 Introduction

Thank you for purchasing the PAC's iPAC-GM3 interface for OEM radios. Designed for Video, Generation 3, 4, Mini, and Nano iPods. The iPAC-GM3 has three Modes of operation; Advanced, Manual, and Auxiliary Input. Advanced Mode allows you to use your factory stereo buttons and steering wheel audio controls (if equipped) to directly control your iPod. In Advanced Mode the iPod text is displayed on the factory radio. Manual Mode allows you to control your iPod directly using the click wheel controls. Auxiliary input mode allows an external audio device to play through your factory system.

The iPAC-GM3 works with vehicles that have navigation-equipped radios, non-navigation radios, and vehicles equipped with XM satellite radio (refer to section 2.1b for details). At the press of a button, you can switch between iPod, auxiliary input, and XM satellite radio (if equipped).

For updated production information, please visit PAC's web site at www.pac-audio.com/default.asp

1.2 Precautions (Important, Please Read)

UPDATING iPod FIRMWARE

For proper operation of the iPAC-GM3, your iPod must be updated with the most recent version of firmware from Apple. This is done by accessing apple's web site: <http://www.apple.com/ipod/download/>.

PREVENTING DAMAGE TO YOUR VEHICLE OR iPod.

- The vehicle manufacturer recommends unplugging the iPod when not in use.
- Do not plug in iPod until initialization is complete. Please see Section 2.2 for details.
- Prior to installation, ensure you know your radio security code.
- To eliminate the risk of an electrical short, we recommend removing the negative terminal from the vehicles battery prior to installation.

PROPER MOUNTING LOCATION

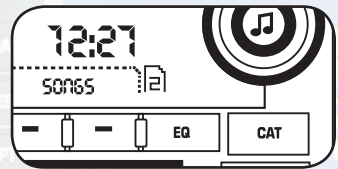
Securely install the interface in a location free from; heat, humidity, moving parts, sharp metal edges and direct sunlight. We recommend securing the interface to a suitable location using; double sided tape, Velcro, or wire ties.

1.3 Compatibility Notes

This section will inform you of the specific requirements for your factory radio to be compatible with the iPAC-GM3. These notes will inform you of any issues or circumstances that can affect the compatibility of our product with your radio, audio system, or accessories. Not all Factory radios are compatible with the iPAC-GM3. The iPAC-GM3 will only work on models equipped with the specifications listed below. Please read and understand these notes before proceeding:

Radio Requirements

Non navigation radios must have a "CAT" button. Works with all XM ready navigation radios.



1.4 Harness Selection

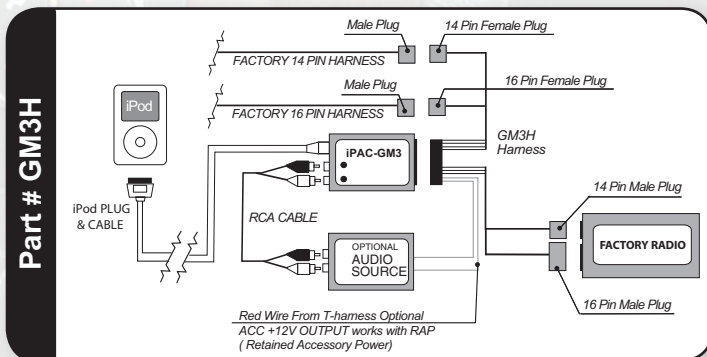
The harness used is determined by whether or not your vehicle has an OEM Satellite Radio tuner installed. **If you have Satellite radio installed, use the GM3HXM harness. If no Satellite radio is installed, use the GM3H harness.** Visit the PAC's web site at www.pac-audio.com/default.asp for more information.

Chapter 2 - Installation:

This chapter will explain how to install the iPAC-GM3 interface using the GM3H and the GM3HXM harnesses. Some installations require you to make wiring connections. To eliminate the risk of an electrical short, we recommend removing the negative terminal from the vehicles battery prior to installation. If you do not feel comfortable making these connections, we suggest you seek professional installation.

2.1a Harness GM3H: (No XM)

1. Carefully remove the radio from the dash of the vehicle.
2. Plug the 14 & 16-pin male ends of the GM3H harness into the 14 & 16-pin ports on the back of the radio. Next connect the factory 14 & 16-pin male connectors into the 14 & 16-pin female connectors on the GM3H harness.
3. Optional Connections:
RED: Retains Accessory Power (RAP). Provides 12V(+) accessory power after the vehicle is turned off up to 10 minutes, or until the drivers door is open.
RED/WHITE: Non-functional wire; no connection is necessary.
Note: Insulate all wires that are on the IPAC-GM3 harness that are not used for installation
4. Connect the 8-pin connector on the iPod docking cable to the IPAC-GM3 interface. (DO NOT CONNECT IPOD AT THIS TIME, WAIT UNTIL INITIALIZATION IS COMPLETE, SEE SECTION 2.2 FOR DETAILS)
5. Plug the male 24-pin connector of the GM3H harness into the iPAC-GM3 interface.



2.1b Harness GM3HXM: (With XM)

1. Locate factory XM tuner. It is often located behind the glove box. Remove any panels if necessary to access XM tuner's 16-pin harness. Unplug the 16-pin harness.

2. Plug the male end of the GM3HXM harness into the 16-pin port on the XM tuner. Next connect the factory male 16-pin into the 16-pin female connector on the GM3HXM harness.

3. Optional Connections:

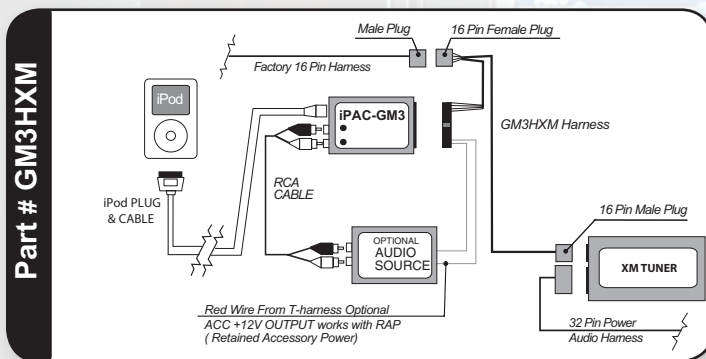
RED: Retains Accessory Power (RAP). Provides 12V(+) accessory power after the vehicle is turned off up to 10 minutes, or until the drivers door is open.

RED/WHITE: Non functional wire; no connection is necessary.

Note: Insulate all wires that are on the iPAC-GM3 harness that are not used for installation

4. Connect the 8-pin connector on the iPod docking cable to the iPAC-GM3 interface. (DO NOT CONNECT IPOD AT THIS TIME, WAIT UNTIL INITIALIZATION IS COMPLETE, SEE SECTION 2.2 FOR DETAILS)

5. Plug the male 24-pin connector of the GM3H harness into the iPAC-GM3 interface.



2.2 Initialization:

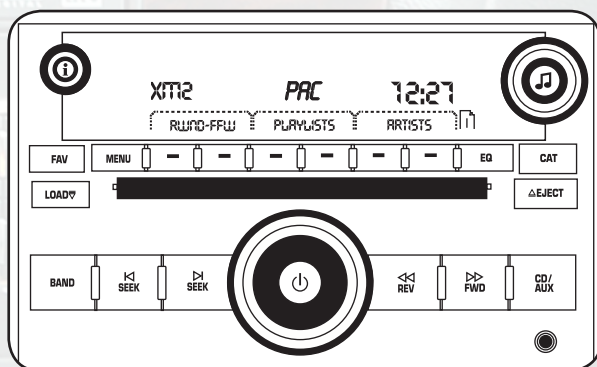
Once you have completed the installation of your iPAC-GM3 interface, it is important to allow the factory stereo time to recognize the new device. This “hand shake” period occurs when the key is first turned-on, and lasts up to 10 seconds. A green LED located on the top of the IPAC-GM3 will flash during the “hand shake.” ONCE THE GREEN LIGHT IS ON SOLID THE INITIALIZATION IS COMPLETE. (NOTE: YOU MAY NOT SEE THE GREEN LIGHT FLASH) Please do not press any buttons until initialization is complete, or you will need to start the initializing “hand shake” process over again by disconnecting and reconnecting the 24-pin plug from the iPAC-GM3 and waiting through the “hand shake” period.

Chapter 3 - Operation:

This chapter will explain how to control the iPod from your factory radio In Advanced, Manual, and Auxiliary Input Modes.

Note: All factory steering wheel controls (if equipped) remain functional and operate the same as the corresponding buttons on the radio. Ex: SEEK ▲ on the steering wheel controls will function the same as pressing SEEK ▲ on the radio.

3.1 Non-Navigation Radios:



Accessing the iPod:

Press the BAND button on the radio until the display shows XM. If the vehicle is equipped with XM, press and hold **◀ SEEK** until a “beep” is heard. The display will show “iPod.” If the vehicle is NOT equipped with XM the display will immediately show “iPod” when you access the XM band.

NOTE: If the iPod navigation menu is not displayed above the presets, press the CAT button

Note: When accessing menu functions using the TUNE KNOB, be sure that none of the menu tabs above the presets are selected (See fig. a below). When menu tabs above the presets have been selected they will be come highlighted (See fig. b below). You CANNOT access the menu functions with the TUNE KNOB when a menu tab above the presets is highlighted. It takes approximately 30 seconds to time out.

Not all menu functions in the list are active when using the TUNE KNOB, only access menu functions specified in the instructions.

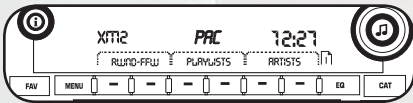


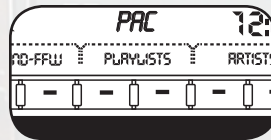
figure a



figure b

Note: The CAT button is used to switch between the two pages of menu options that are accessed using the presets. If the iPod menu tabs do not appear above the presets when you access the iPod, press the CAT button and they will appear. The menu tabs above the presets can be accessed in two ways:

1. Press either of the two buttons located below each menu tab.



2. Use the FWD **▶▶** or **◀◀** REW to move from one menu tab to the next. Press the SEEK **▶|** button to select the menu option.

Switching to Satellite Radio: (if equipped)

Press and hold **◀ SEEK** button until a “beep” is heard (approximately 2-3 seconds) to return to Satellite Radio or Using the TUNE KNOB, turn the knob in either direction until the display reads “Select XM Radio.” Press the SEEK **▶|** button to go to XM.

To return to the iPod, when in Satellite Mode press and hold the **◀ SEEK** button for approximately 2-3 seconds until a “beep” is heard.

Accessing the Auxiliary Input:

Using the TUNE KNOB, (menu tabs must not be highlighted) turn the knob in either direction until the display reads "Select AUX In." Press the SEEK ► button to go to the Auxiliary input.

To return to the iPod, use the TUNE KNOB (menu tabs must not be highlighted) to scroll through menu options until "Select iPod" is displayed. Press the SEEK ► button to return to iPod.

Note: While in Auxiliary input mode there is an adjustment that can be used to match the level of the auxiliary input source with the levels of the other audio sources. To set the GAIN levels use the TUNE KNOB. Turn the TUNE KNOB either direction until "Select Gain" is displayed. Press the SEEK ► button to switch between "Gain High" and "Gain Normal."

3.1a Manual Mode

When the iPod is plugged in the default setting is for manual control of the iPod. If you are in Advanced Mode; using the TUNE KNOB, (menu tabs must not be highlighted) turn the knob in either direction until the display reads "iPod Advanced." Press the SEEK ► button to go to manual control of the iPod. The iPod will now be controllable using the click wheel controls on the iPod. While in Manual Mode the display on the factory radio will display "PAC iPod."

3.1b Advanced Mode

If you are in Manual Mode; using the TUNE KNOB, (menu tabs must not be highlighted) turn the knob in either direction until the display reads "iPod Manual." Press the SEEK ► button to go to Advanced Mode. The factory stereo radio buttons will now control the iPod, use of the click wheel controls will be disabled while using Advanced Mode. iPod text will now be displayed on the factory radio

Browse by Artist

Press either of the preset buttons below the text "Artist" on the display to highlight the Artist menu tab. Use the TUNE KNOB to scroll through the artists. To select the desired artist press the SEEK ► button. The "Songs" tab on the menu will become highlighted. Use the TUNE KNOB to scroll through the songs and press the SEEK ► button to select the desired song. Once the song is selected the SEEK ► and ◀ SEEK can be used to change the track up and down within the Artist selected.

Browse by Album

Press either of the preset buttons below the text “Albums” on the display to highlight the Album menu tab. Use the TUNE KNOB to scroll through the albums. To select the desired album press the SEEK ► button. The “Songs” tab on the menu will become highlighted. Use the TUNE KNOB to scroll through the songs and press the SEEK ► button to select the desired song. Once the song is selected, the SEEK ► and ◀ SEEK can be used to change the track up and down within the Artist selected.

Browse by Genre

Press either of the preset buttons below the text “Genre” on the display to highlight the Genre menu tab. Use the TUNE KNOB to scroll through the music genres. To select the desired genre press the SEEK ► button. The “Songs” tab on the menu will become highlighted. Use the TUNE KNOB to search through the songs and press the SEEK ► button to select the desired song. Once the song is selected the SEEK ► and ◀ SEEK can be used to change the track up and down within the Genre selected.

Browse by Playlist

Press either of the preset buttons below the text “Playlists” on the display to highlight the Playlist menu tab. Use the TUNE KNOB to scroll through the Playlists. To select the desired Playlist press the SEEK ► button. The “Songs” tab on the menu will become highlighted. Use the TUNE KNOB to scroll through the songs and press the SEEK ► button to select the desired song. Once the song is selected the SEEK ► and ◀ SEEK can be used to change the track up and down within the Playlist selected.

Browse by Songs

Press either of the preset buttons below the text “Songs” on the display to highlight the Song menu tab. Use the TUNE KNOB to scroll through the songs and press the SEEK ► button to select the desired song. Once the song is selected the SEEK ► and ◀ SEEK can be used to change the Song selected.

Fast Forward

Press either of the preset buttons below the text “RWND-FFW” on the display to highlight the Rewind/Fast Forward menu tab. Press the preset button below “FFW” to begin Fast Forwarding. Press the same button again to resume play.

Rewind

Press either of the preset buttons below the text “RWND-FFW” on the display to highlight the Rewind/Fast Forward menu tab. Press the preset button below “RWND” to begin rewinding. Press the same button again to resume play.

Next Track

Press the SEEK ► button to advance forward one track.

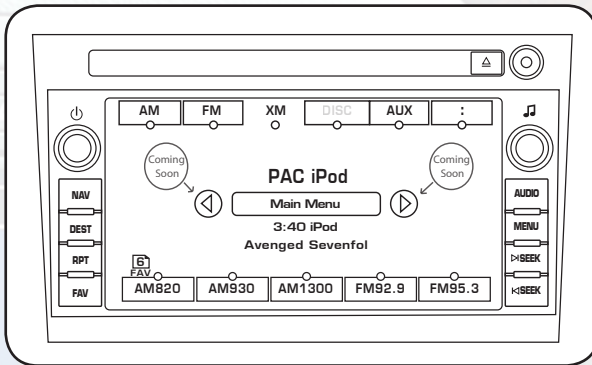
Note: This function will not work when a menu tab above the presets is highlighted.

Previous Track

Press the ◀ SEEK button to go back one track.

Note: This function will not work when a menu tab above the presets is highlighted.

3.2 Navigation Radios:




Note: Due to restrictions of GM's navigation radios, while the vehicle is in motion the in depth menu system of the navigation radio will not be usable, thus some Advanced Mode functions will not be available while the vehicle is in motion.

Accessing iPAC-GM3 Menus:

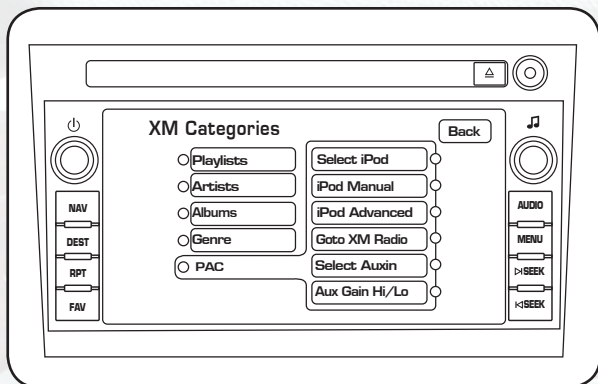
To gain access to the iPAC-GM3's touch screen menus, touch the "Main Menu" icon and all menu option icons will display on the screen.

Accessing the iPod:

Touch the "XM" icon on the radio display. If the vehicle is equipped

with XM, press and hold ◀ SEEK, or  until a "beep" is heard.

The display will show "iPod." If the vehicle is NOT equipped with XM the display will immediately show "iPod" when you access the XM band.



Switching to Satellite Radio: (if equipped)

Touch the “PAC” icon on the radio display, and then touch the “Goto XM Radio” icon. To go back to the main XM control screen touch the “Back” icon, or press the **AUDIO** button.

Accessing the Auxiliary Input:

Touch the “PAC” icon on the radio display, and then touch the “Select Aux In” icon. To go back to the previous set of options touch the “Back” icon, or press the **AUDIO** button to return to the *Main Menu* screen. Also, simply disconnecting the iPod from the docking cable will switch the interface from iPod mode to the Auxiliary Input.

*Note: While in Auxiliary input mode there is an adjustment that can be used to match the level of the auxiliary input source with the levels of the other audio sources. Touch the “PAC” icon on the radio display, and then touch the “Aux Gain Hi/Lo” icon to switch between High and Low. To return to the Main Menu screen touch the “Back” icon, or press the **AUDIO** button.*



3.2a Manual Mode

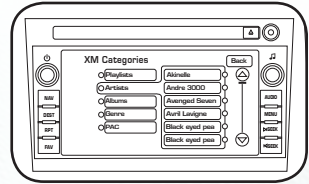
Touch the “PAC” icon on the radio display, and then touch the “iPod Manual” icon. To return to the *Main Menu* screen touch the “Back” icon, or press the **AUDIO** button. The iPod will now be controllable using the click wheel controls on the iPod. While in Manual Mode the display on the factory radio will show “PAC iPod.”

3.2b Advanced Mode



Touch the “PAC” icon on the radio display, and then touch the “iPod Advanced” icon. The factory stereo radio buttons will now control the iPod, use of the click wheel controls will be disabled while using Advanced Mode. iPod text will now be displayed on the factory radio. To get to the Main Menu touch the “Back” icon, or press the **AUDIO** button.

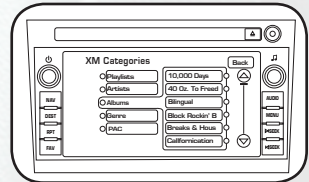
Browse by Artist

Touch the “Artists” icon on the display. Use the  and  icons on the display located below the “Back” icon to scroll up and down the list of artists. *Note: Due to the restraints of the navigation radio, only the first 25 Artist will be displayed.* Touch the icon with the name of the artist you wish to play. The first track will begin to play. To view the song title that is currently playing, touch the “Back” icon, or press the **AUDIO** button to display the *Main Menu*. The track information will be displayed below the “Main Menu” icon.



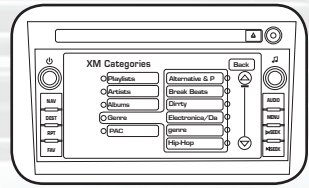
Browse by Album

Touch the “Albums” icon on the display. If necessary, use the  and  icons on the display located below the “Back” icon to scroll up and down the list of albums. *Note: Due to the restraints of the navigation radio, only the first 25 Albums will be displayed.* Touch the icon with the name of the album you wish to play. The first track will begin to play. To view the song title that is currently playing, touch the “Back” icon, or press the **AUDIO** button to display the *Main Menu*. The track information will be displayed below the “Main Menu” icon.



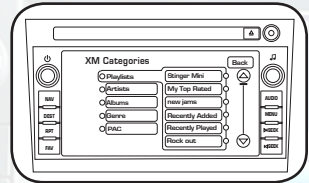
Browse by Genre

Touch the “Genre” icon on the display. If necessary, use the ▲ and ▼ icons on the display located below the “Back” icon to scroll up and down the list of artists. Touch the icon with the name of the genre of music you wish to play. The first track will begin to play. To view the song title that is currently playing, touch the “Back” icon, or press the **AUDIO** button to display the *Main Menu*. The track information will be displayed below the “Main Menu” icon.




Browse by Playlist


Touch the “Playlists” icon on the display. If necessary, use the ▲ and ▼ icons on the display located below the “Back” icon to scroll up and down the list of playlists. *Note: Due to the restraints of the navigation radio, only the first 25 Playlists will be displayed.* Touch the icon with the name of the playlist you wish to play. The first track will begin to play. To view the song title that is currently playing, touch the “Back” icon, or press the **AUDIO** button to display the *Main Menu*. The track information will be displayed below the “Main Menu” icon.



Next Track

Press the ►| SEEK or  button to advance forward one track.

Previous Track

Press the ◀| SEEK or  button to advance forward one track.

3.3 Troubleshooting

Symptom	Cause	Remedy
No Power	<ul style="list-style-type: none"> •Blown fuse in vehicle fuse block. •24-pin harness is not seated correctly into the iPAC-GM3 interface 	<ul style="list-style-type: none"> •Replace fuse with same amp rating. If the fuse blows again, call tech support. •Check cable and wiring connection.
Green light not solid	<ul style="list-style-type: none"> •The radio is not recognizing the interface •24-pin harness is not seated correctly into the iPAC-GM3 interface 	<ul style="list-style-type: none"> •Reinstall and verify if the correct harness was used. •Check cable and wiring connection.
Can not change selection in a folder	The folder only has one selection i.e. Artist, Album, Playlist or Song.	Use browse menu to select new album, playlist, genre, or artist
iPod is not charging	<ul style="list-style-type: none"> •iPod Connection cable is not properly mated to the iPod •iPod battery is defective 	<ul style="list-style-type: none"> •Check cable and wiring connection. •Return to Apple for service

CHAPTER 4 - Important Info.

4.1 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 PAC dealer.

This warranty covers any supplied or manufactured parts of this product that, upon inspection by Pacific Accessory Corporation 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, Pacific Accessory Corporation 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 Pacific Accessory Corporation 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, Pacific Accessory Corporation will repair or replace the product at their discretion, if it is defective in material or workmanship providing it is returned to an Authorized Pacific Accessory Corporation's Dealer, with PROOF OF PURCHASE from an authorized Pacific Accessory Corporation dealer.

4.2 Warning:

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

4.3 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.

**For consumer technical support call:
714-835-3022 Hours: 8:00 AM - 4:30 PM, PST, MON- FRI**

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