



Expand Your Factory Radio

add

iPod®



**GM2
Owner's
Manual
Neo Gateway**

Enjoy the Music

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Neo Gateway & Optional Add-ons



1. Introduction

Thank you for purchasing the ® Neo Gateway. The Neo 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 Neo Gateway.

The Neo 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 and rear seat entertainment (if equipped).

2. Precautions

UPDATING iPod FIRMWARE

For proper operation of the Neo 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

4. Dipswitch Settings

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

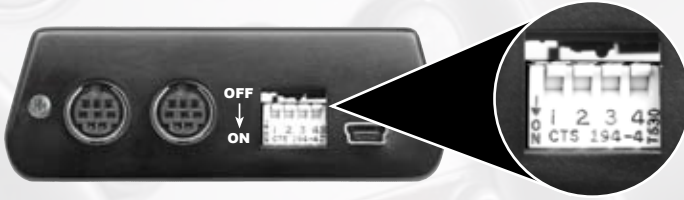


Fig. 1 Side view of interface with dip switches in correct position

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 Neo 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 Neo 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 Gateway 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 Neo 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 Neo BAA20 antenna adaptor if needed to make this connection.

6. Locate the 14-pin and 16-pin female connectors on the GM2 harness. Plug the vehicle's 14-pin and 16-pin male connectors into the GM2 connectors. Locate the 3 wires with the bullet connectors on the GM2 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. Leave the other two wires on the GM2 harness connected. Connect these free ends to the bullet connectors on the orange and orange/black wires coming from the 24 pin black Gateway harness. Plug the male connectors of the GM2 harness into the back of the radio. Plug the Black micro-fit 24-pin connector on the GM2 harness into the Gateway Neo 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.

7. To complete the installation secure the Neo Gateway (Gateway) 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 Neo Gateway and HD Radio tuner 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.

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 XM is displayed on the screen. Once in the Mode Select Menu, turn the rotary 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. If you are currently in "SAT" mode you will need to press the "**►I SEEK**" button instead of "**FWD>>**" to select "IPOD" 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

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.

Browse by Album

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

“PL:LIST” will appear on your display. Turn the rotary tune knob until ALBUM is displayed. Press “FWD>>” to select browse by Album.

The Albums on your iPod 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 in the album folder.

Turn the rotary tune knob to cycle through the albums.

Once the desired album is displayed,

Press “FWD>>” 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. When the radio displays the name of the desired song,

Press “FWD>>” to select and play the desired song.

The display will automatically change to display and scroll the song title.



Browse by Genre

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

“PL:LIST” will appear on your display. Turn the rotary tune knob until GENRE is displayed.

Press “FWD>>” to select browse by Genre.

The Genres on your iPod will be displayed one at a time in alphabetical order. “GE” will be displayed to indicate that you are searching for a Genre.

Turn the rotary tune knob to cycle through the Genres.

Once the desired Genre is displayed,

Press “FWD>>” to select the desired Genre.

The list of Artists on your iPod from the selected Genre 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 in the artist folder.

Turn the rotary tune knob to cycle through the artists.

When the desired artist is displayed on the radio,

Press “FWD>>” to select that 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 “FWD>>” 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. When the radio displays the name of the desired song,

Press “FWD>>” to select and play the desired song.

The display will automatically change to display and scroll the song title.



Browse by Playlist

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

“PL:LIST” will appear on your display.

Press “FWD>>” to select browse by Playlist.

The Playlists on your iPod will be displayed one at a time in alphabetical order.

“PL” in front of playlist indicates that this is the folder of Playlists.

Turn the rotary tune knob to cycle through the Playlists.

When the desired playlist is displayed on the radio,

Press “FWD>>” to select the desired Playlist

The list of songs in that playlist will be displayed one at a time. “TR” will be displayed in front of the track title to indicate that you are searching for a “track” or song. The songs will be listed in order that they were added to the playlist.

Turn the rotary tune knob to cycle through the songs in the selected Playlist.

When the desired song is displayed on the radio,

Press “FWD>>” to select and play the desired song.

The display will automatically change to display and scroll the song title.

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 knob in the top right hand corner to scroll through available sources. Once “HD RADIO” is displayed, press the “**FWD>>**” button to select the mode. If you are currently in “SAT” mode you will need to press the “**► I SEEK**” button instead of “**FWD>>**” to select “HD RADIO” 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. 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 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. If you are currently in "SAT" mode you will need to press the "► I SEEK" button instead of "FWD>>" to select "AUX" mode.

Selecting between AUX1 / AUX2

If you are currently in AUX1 or AUX2 mode turn the rotary knob to enter the mode select menu. Once AUX1 or AUX 2 is displayed on the screen press the "FWD>>" button to select.

9. Selecting Factory Installed Sat (if equipped)

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 Menu, turn the rotary knob in the top right hand corner to scroll through available sources. Once "SAT" is displayed, press the "FWD>>" button to select that 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 Neo 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 Neo Gateway does not recognize the HD Radio tuner (HDRT) | The HD tuner was not properly connected when the Gateway was first connected and initialized. | HDRT must be connected before the Gateway is powered on . Disconnect the Gateway 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 Gateway 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. |

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



NEO

NEO CAR AUDIO

The logo features the word "NEO" in a stylized, outlined font with a blue-to-purple gradient. Below it, the words "NEO CAR AUDIO" are written in a smaller, solid blue, sans-serif font. The entire logo is reflected on a light blue surface below it.