



Expand Your Factory Radio



add
iPod®



**VW2
Owner's
Manual
Neo Gateway**

Enjoy The Music

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Neo Gateway & Optional Add-ons



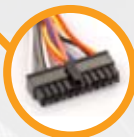
Neo Gateway Harness

Factory Radio
Not Included



VW2A adapter
2008 Touareg with
non-navigation radio
featuring a "SAT" button

VW2B adapter



OR



iPod
Not
Included



11ft. iPod Cable



Optional Add-on HD Radio tuner
Connectivity available only when using
VW2A adapter harness and Neo
Gateway in Advanced Mode.



Neo Gateway



3ft. HD Radio Cable

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

HD Radio®

Antenna Adapter*



* Required for most vehicles. (sold separately)



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 HD Radio tuner or 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 HD Radio (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 Notes

2006-2008 Volkswagen Jetta, Rabbit, Passat, Eos, and GTI (all radios) Basic Mode.

2008 Touareg (Navigation radio) Basic Mode.

2008 Touareg (Non-Navigation radio) Basic Mode or Advanced Mode available.

4. Neo Gateway Operation Modes and Supported Features

Basic Mode – Available in all VW applications.

This mode offers basic control of the iPod (next track, previous track)

Also provides an auxiliary audio input

Basic Mode does not support HD Radio connectivity.

NOTE: if connecting the Neo Gateway to operate in Basic Mode, the Factory CD changer must be disconnected (if present) to add the Neo Gateway to the radio.

Advanced Mode – Available in Touareg with a Non-Navigation radio featuring a “SAT” button.

This mode offers advanced control of the iPod (Browse by Playlist, Artist, Album, Genre and Composer)

Also provides an auxiliary audio input

Advanced Mode supports HD Radio connectivity. To receive HD Radio stations the HD Radio Tuner must be connected. (HDRT sold separately).

5. Dipswitch Settings

After removing the radio from the vehicle identify the manufacturer of the radio. Two companies make the radios featured in VW vehicles. If the model number sticker is on the SIDE of the radio it is a Delphi brand radio. If the model number sticker is on the TOP of the radio it is a Panasonic brand radio.



For all Delphi radios and Touareg Non-Navigation radios all dip switches must be in the OFF position (up) for the Neo Gateway to function.



For Non-Navigation Panasonic radios that feature a “SAT” button, turn on dipswitch # 1 to operate the Neo Gateway in Basic Mode.

6. Installation

Before installing the Neo Gateway, be sure you have correctly set the dipswitches according to section five.

NOTE: DO NOT disconnect the wiring from the “passenger airbag light” on the dash bezel. Disconnecting this harness will cause an airbag light to illuminate in the gauge cluster which needs to be reset by a Volkswagen dealership.

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 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 harness from the back of the radio.
4. Connect the 8-Pin iPod docking cable into the first port on the Neo Gateway furthest 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 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 you are connecting the Neo Gateway in a Touareg with a Non-Navigation radio featuring a “SAT” button, follow step 6 to connect the HD Radio Tuner (HDRT sold separately). If you are not installing the HDRT please skip step 6 and continue onto step # 7.
6. Plug the 3 foot HD Radio cable (8-Pin to 8-Pin) 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 **WHITE** antenna cable into the antenna connection on the HD Radio tuner (HDRT). If the Tan connector is connected into the HDRT it will not receive any AM reception. For best performance of the HDRT use an amplified antenna adaptor to make this connection. We recommend the use of a Best Kits BAADIN22 or equivalent.
7. Plug the male connector on the VW2 harness into the port on the back of the radio. Next, connect the factory harness into the female connector on the VW2 harness. Be sure to make a firm connection but do not force it.

a. If installing the Gateway into a non-navigation Touareg, then connect the VW2A adapter to the harness and Neo gateway.

b. All other applications, connect the VW2B adapter to the vehicle harness and to the Neo gateway.

Plug the black micro-fit 24-pin connector on the VW2 harness into the Gateway Neo Gateway box.

8. To complete the installation secure the Neo Gateway (Gateway) and HD Radio tuner (HDRT) (Touareg only) into the cavity behind the dash. 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, or electrical tape, or other fasteners to mount the interfaces to the factory wiring or installed audio components (for example under the factory Satellite tuner (if present).

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 Neo Gateway and HD Radio Tuner before reinstalling the factory dash panels.

10. When first powering up the vehicle with the radio reconnected, "CODE" may appear on the screen. This is a safety feature of the VW radio. If you see this message, DO NOT enter a code, simply let the radio sit on this screen for about 10 seconds, then turn the vehicle off. Disconnect the gateway harness from the vehicle. Reconnect the gateway harness to the vehicle. Normal operation should resume.

11. NOTE: The first time that 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. Access the gateway again to begin normal operation.

7. Basic Mode

If you have configured your Neo Gateway to operate in Basic Mode by setting the dipswitches as described in section 5, read this section to learn how to use the supported features. If not, please proceed to section 8.

Basic mode is accessed by pressing the "CD" button twice to switch the radio to the CD changer source.

Use the iPod click wheel to access your favorite music. When the iPod is playing, turn the tune knob Clockwise, or press the "**SEEK▲**" button to change to the next track. Turn the tune knob Counter-clockwise to go back to the previous track.

To select the auxiliary audio input on the Neo Gateway, press Preset # 2. To switch back to the iPod source press Preset # 1.

8. Advanced Mode

If you have configured your Neo Gateway to operate in Advanced Mode by setting the dipswitches as described in section 5, read this section to learn how to use the supported features.

Advanced mode is accessed by pressing the “SAT” button to switch the radio to the Satellite Radio source. In the Satellite Radio source, you will have access to all the available Neo Gateway sources.

Press the “▲” or “▼” button to cycle through the Neo Gateway sources. (AM, FM, IPOD, AUX input, SAT) when the desired option is displayed on the screen, wait 3 seconds and the radio will select the displayed option.

9. iPod Operation

Press the “▲” button until “IPOD” is displayed. Wait 3 seconds, the radio will automatically enter the iPod mode.

Touareg Radio controls

Next Track

Turn the Tune knob Clockwise to skip to the next track.

Previous Track

Turn the Tune knob Counter-clockwise to go back to the previous track.

Enter Browse menu / make a selection

To enter the Browse menu, press Preset # 2. While in the Browse menu press the “▲” or “▼” buttons or 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 back

Press “Preset # 1” to move back one folder in the menu. This allows you to change the Browsing method. For example if you select to Browse by album, and you decide to Browse by artist instead, press Preset # 1 to go back.

Touareg Steering Wheel controls

The Multifunction display in the gauge cluster must be in “Audio mode” for the steering wheel controls to operate the Neo Gateway.

Next track

Roll up on the scroll wheel to advance to the next track.

Previous track

Roll down on the scroll wheel to go back to the previous track.

Enter Browse menu / make a selection

Press in the scroll wheel on the steering wheel controls to enter the Browse menu, and to make selections when in the Browse menu.

While in the Browse menu, change your Browsing method by rolling the scroll wheel up or down slowly.

10. HD Radio Operation (if equipped)

Press the “▲” button until “HD-AM” or “HD-FM” is displayed. Wait 3 seconds, the radio will automatically enter the HD Radio mode.

Touareg Radio Controls

Seek Up

Press the “>” button to seek up to next available station.

Seek Down

Press the “<” button to seek down to the next available station.

Manually Tune

Turn the Tune knob to manually tune. Clockwise will tune up, Counter-clockwise will tune down.

Storing stations into Preset memory

Tune to a station you wish to save into Preset memory. Press and hold the Preset button (1-6) where you want to store the preset. Holding the preset button for two seconds will store the station into memory and “PR SAVED” will be displayed.

Recall a station from Preset memory

Press the preset button (1-6) to recall the station stored in that location.

Touareg Steering Wheel controls

Scroll up on the scroll wheel to cycle up through stations stored in preset memory, scroll down, to cycle down. When the desired preset is displayed, wait 3 seconds, the radio will auto select the station.

11. Selecting AUX

Press the “▲” button until “AUX” is displayed. Wait 3 seconds, the radio will automatically enter the Auxiliary audio input mode.

12. Selecting Factory Satellite Radio (if equipped)

Press the “▲” button until “SAT” is displayed. Wait 3 seconds, the radio will automatically enter the Satellite Radio mode.

For instructions on the operation of the factory installed Satellite Radio tuner, please reference the owner’s manual supplied with the vehicle.

NOTE: when in Factory Satellite radio mode, to change to another source, iPod, HD Radio, etc. Press in the Tune knob twice (2X) then use the “▲” and “▼” buttons to cycle through the available Neo Gateway sources.

13. 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 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 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* We recommend a Best Kits BAADin22
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.
I receive FM but no AM stations	Poor antenna connection	Verify that the WHITE antenna connector is connected to the HDRT, using a BAADin22 or equivalent adapter.
My radio displays "iPod Connected" but I don't hear any music playing	The iPod audio is muted while browsing for music	Once a track is selected, the audio will resume.

14. 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 Electronics 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 provided it is returned to an Authorized Neo Car Audio Dealer, with PROOF OF PURCHASE from an authorized Electronics 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. 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.

