



iPod[®] Interface Module

for selected Audi/Volkswagen vehicles



Installation & Operation

Serial Number: _____

Date of Purchase: _____

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Introduction and Precautions

Thank you for purchasing the Rockford Fosgate Interface Module for iPod. The Interface Module was designed and manufactured to seamlessly integrate with your vehicle's factory system. To get the best performance from this device, read this manual before doing any type of installation.

Practice Safe Sound™

Continuous exposure to sound pressure levels over 100dB may cause permanent hearing loss. High powered auto sound systems may produce sound pressure levels well over 130dB. Use common sense and practice safe sound.



This symbol with "**CAUTION**" is intended to alert the user to the presence of important instructions. Failure to heed the instructions can result in injury, damage to the vehicle or unit damage.



CAUTION: To prevent injury and damage to the unit, please read and follow the instructions in this manual. We want you to enjoy this system, not get a headache.



CAUTION: If you feel unsure about installing this system yourself, have it installed by a qualified Rockford Fosgate technician.



CAUTION: Before installation, disconnect the vehicle battery, both positive (+) and negative (-) terminals, to prevent damage to the unit, fire and/or possible injury.



CAUTION: For your safety, ensure the iPod interface module is mounted in a location that will not interfere with the proper and safe operation of the vehicle.

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iPod is a trademark of Apple, Inc.

Supported iPod Models



iPod mini
4GB 6GB



iPod nano
1st generation
1GB 2GB 4GB



iPod nano
2nd generation
(aluminum)
2GB 4GB 8GB



iPod nano
3rd generation
(video)
4GB 8GB



iPod classic
80GB 160GB



iPod
4th generation
20GB 40GB



iPod
4th generation (color display)
20GB 30GB 40GB 60GB



iPod
5th generation (video)
30GB 60GB 80GB



iPod touch
8GB 16GB



iPhone
(3G compatible)

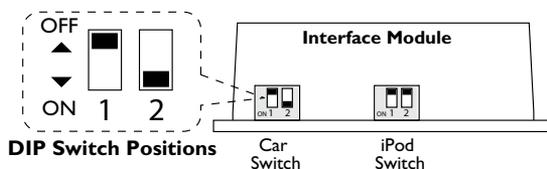
iPod Firmware

For proper operation of the interface module, ensure your iPod is updated with the latest firmware. Free updates can be downloaded from <http://www.apple.com/ipod/download/>. The directions on the site will guide you through the update process.

Pre-System Setup

Interface Module DIP Switch Settings

Proper identification of your system and correct setting of the DIP switches will ensure the interface module operates properly when installed.



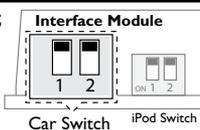
NOTE: If you change the positions of the DIP switches after the module is installed, turn off the vehicle ignition, disconnect the 'Vehicle Harness' from the interface module, then wait one (1) minute before reconnecting the harness and turning the vehicle ignition on.

DIP Switch Setting for Car Switch on the Interface Module

For Audi/VW-CDC Kit Only

CDC (CD Changer) setting

Set Car Switches to;
Both
Switches
OFF
(Default)



For Audi/VW-SAT Kit Only

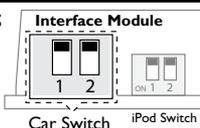
NOTE: If Satellite (XM/Sirius) is equipped it MUST be disconnected for the system to operate.

Multi-Line Display setting

Recommended for Satellite (XM/Sirius) radios that display multiple text fields.

This setting provides full text display on the radio.

Set Car Switches to;
Both
Switches
OFF
(Default)

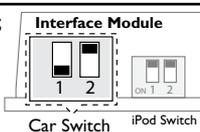


Single-Line Display setting

Recommended for Satellite (XM/Sirius) radios that display only one text field.

This setting provides full text display on the radio.

Set Car Switches to;
Switch 1
ON
Switch 2
OFF



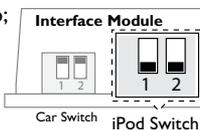
DIP Switch Setting for iPod Switch on the Interface Module

"iPod" Content is selected on the iPod.

Recommended for use with the CDC Kit, or when Text Display is NOT supported by the radio.

Track numbers and times are not synchronized between the iPod and radio. This mode has the fastest response time.

Set iPod Switches to;
Both
Switches
ON

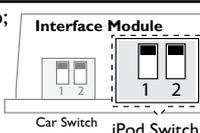


"Radio" Content is only selected from the radio and the iPod is locked.

Recommended for use with the SAT Kit, or when Text Display is supported by the radio.

Use this mode to browse within the contents of the iPod by category as shown in the 'Operation' section.

Set iPod Switches to;
Both
Switches
OFF
(Default)



Installation

It is recommended that installation only be performed by a qualified professional. Beware of sharp edges to avoid injury and exercise caution when removing trims as they may break. The module should be placed at an accessible location to allow an AUX cable to be connected, such as in the glove box, the center console or under the front seat. Ensure the mounting location does not interfere with the safe operation of the vehicle (i.e., near steering, foot pedal controls, parking brake or shifter).

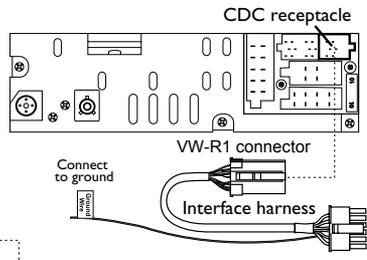
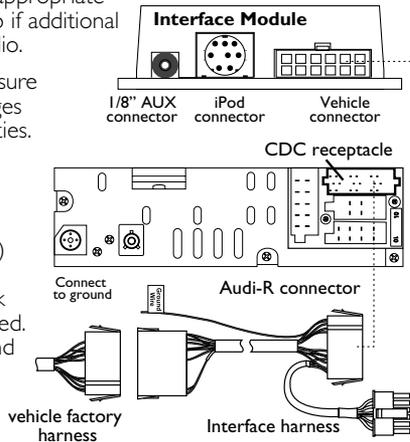
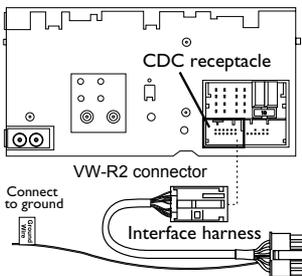
IMPORTANT: Ensure the radio code is available before starting this installation.

1. Be sure to carefully read and understand the instructions before attempting to install the unit.
2. Disconnect both battery terminals. These cables must be disconnected during installation to ensure proper initialization of the interface module when it is connected.
3. Carefully remove surrounding trim to access the radio mounting screws. Most trims can be removed by carefully pulling on the piece or using trim removal tools. Trim is usually held in place by snap-in clips.
4. To remove the radio you need to use the appropriate radio removal tool. Consult your dealership if additional information is needed on removing the radio.

NOTE: When routing harnesses or cables, ensure they are secured away from sharp edges and moving parts by the use of cable ties.

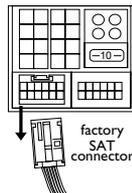
AUDI/VW-CDC Kit harness installation

- 5a. Locate the CDC receptacle on the radio. Unplug the factory connection if present and plug the supplied harness (R, R1 or R2) into the receptacle on the radio. For the R harness, plug the factory connection back into the harness receptacle, if it was removed. Connect the Ground wire to a clean ground source and ensure all connections are securely locked in place.

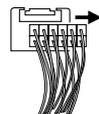


- 5b. **R2 harness modification** - If the vehicle is equipped with factory Satellite radio and you want to retain it, the following modification is required.

- a. Disconnect the vehicle radio harness and locate the SAT connector. Remove it from the vehicle harness by pressing on the release tab.



- b. Slide out the inner part of the SAT connector from plastic housing.

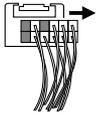


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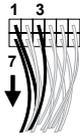
Installation

R2 harness modification, continued from previous page

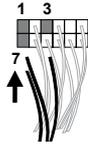
- c. Disassemble the R2 connector the same way as the factory SAT connector:



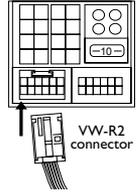
- d. On the factory SAT connector, locate the wires at pins 1, 3 and 7. Remove them with a small screwdriver or ball-point pen. Remember their locations.



- e. Relocate the wires to the R2 connector on the Interface harness. Ensure the wires are located the same as when removed.



- f. Reinstall the connector covers and insert the Interface harness R2 connector into the factory vehicle harness.



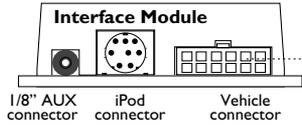
- g. Connect the Ground wire from the Interface harness to a clean ground source and ensure all connections are securely locked in place.

AUDI/VW-SAT Kit harness installation

IMPORTANT: The factory SAT tuner must be disconnected, usually located in the trunk area or under the passenger seat.

NOTE: Your kit may contain one or more harnesses. In some cases they may look different than those illustrated.

- 5c. Locate the SAT receptacle on the radio. Unplug the factory connection if present and plug the supplied harness (Type 1 or Type 2) into the receptacle on the radio. Plug the factory connection back into the harness receptacle, if it was removed. Ensure all connections are securely locked in place.



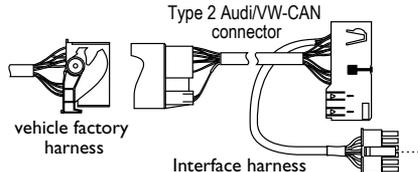
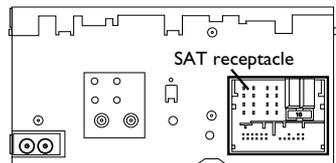
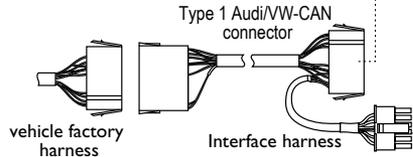
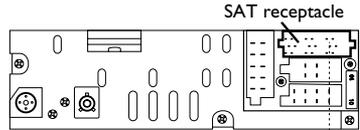
6. Prior to making any connections to the interface module, ensure DIP switches are set correctly (see Vehicle Identification and Pre-System Setup).

7. Connect the harness to the Vehicle connector on the interface module.

8. Connect the iPod cable to the interface module and carefully route it to the location where the iPod will be mounted (such as the glove box or center console).

9. Verify that all connections have been properly made.

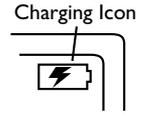
10. Reinstall the radio and reconnect the vehicle battery. Turn the ignition on and test the unit before reinstalling the panels/trim.



Operation

Connecting Your iPod

Simply connect your iPod to the interface cable coming from the interface module. The interface automatically charges the battery of the iPod when connected and the key is in the ACC/ON position. The charging icon will appear on the upper right corner of the iPod screen to indicate charging.



NOTE: We recommend disconnecting your iPod when not in use or when the vehicle is turned off.

iPod Hierarchy

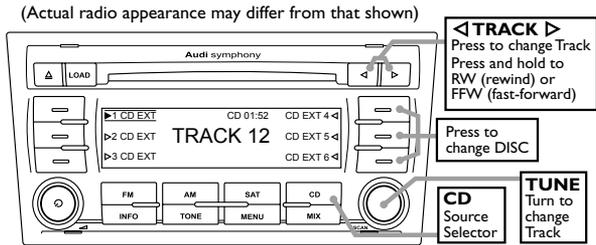
By default, the interface creates a Playlist having a name that is the same as the name of the iPod. This Playlist is the very first on the list of Playlists shown while browsing in Playlist mode. This Playlist contains all the songs on the iPod. Once a Playlist is active an Artist may be selected within that Playlist using the Artist Mode. Albums by the selected Artist and within the selected Playlist may be selected in Album Mode. "ALL ARTIST" and "ALL ALBUM" designate all available content in those categories.



Operation for Audi/VW-CDC Kit (Interface Module set to CDC settings)

Press the CD button to access the interface and its features. Pressing this button repeatedly will cycle through sources present (internal CD if present, followed by external) in your vehicle.

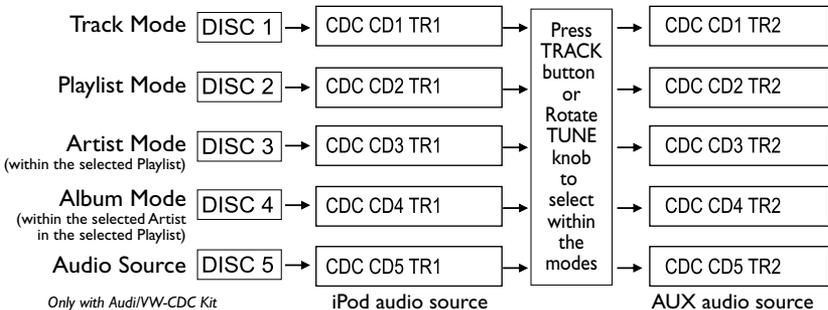
When the iPod audio source is active (displayed as DISC 5, Track 1), use the TRACK button or rotate the TUNE knob to select next/previous song.



Mode Selection – Browsing – Audi/VW-CDC Kit (CDC settings)

Interface Module set to "Radio"

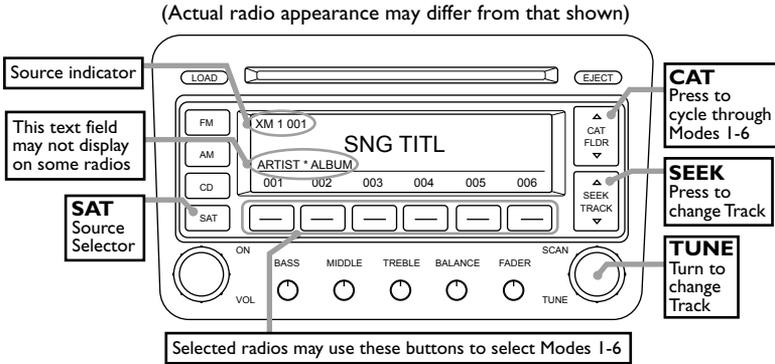
Once the iPod is connected and selected as the audio source, you can browse through the modes by selecting the appropriate DISC. Change Tracks within that mode by pressing the TRACK button or rotating the TUNE knob. Browse through the modes as shown. Text display is not supported, however recent iPod firmware upgrades show the Title/Artist information of the currently played song.



Operation

Operation for Audi/VW-SAT Kit (Interface Module set to SAT settings)

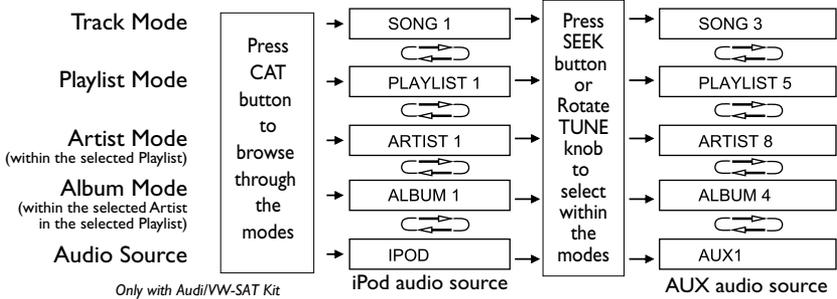
Press the SAT button to access the interface and its features. When the iPod audio source is active (displayed as Mode 5, Channel 1), use the SEEK button or rotate the TUNE knob to select next/previous song.



Mode Selection – Browsing – Audi/VW-SAT Kit (SAT settings)

Interface Module set to "Radio"

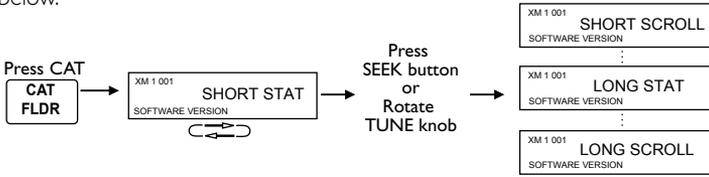
Once the iPod is connected and selected as the audio source, you can browse through the modes by browsing with the CAT button. Browse within that mode by pressing the SEEK button or rotating the TUNE knob. One (1) second after releasing the button, your selection is executed. Browse through the modes as shown.



Operation

Text Scrolling Setting (Mode 6) – Audi/VW-SAT Kit (SAT settings)

To set and change scrolling feature press the CAT button repeatedly until Mode 6 is selected. Change options by pressing the SEEK button or turning the TUNE knob. See example below.



NOTE: After setting the desired feature, turn off the vehicle ignition for at least one (1) minute to engage the new selection.

NOTE: A certain amount of blinking is normal on some radios when the scrolling feature is on.

Firmware Version Information (Mode 6) – Audi/VW-SAT Kit (SAT settings)

Firmware versions are displayed while in Mode 6. This may be needed by a support technician if troubleshooting is necessary. Having this information ready before requesting technical support may expedite the troubleshooting process.



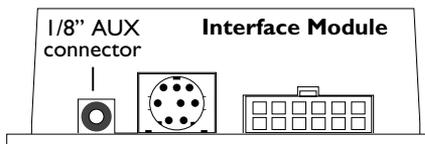
Auxiliary Audio Source

Connecting

The interface is equipped with a 1/8" AUX jack input to connect an auxiliary device, such as an MP3 player, DVD player or other audio source.

NOTE: We recommend to only connect to the interface module when the vehicle ignition is turned off.

Connect into the interface module from your auxiliary device with a cable that has a 1/8" mini stereo jack (not included).



Selecting AUX Input

To access the AUX audio source, select DISC 5, Track 2 or Mode 5, Channel 2 (depending on the radio model).

AUX audio source settings

The auxiliary input has settings for Gain (volume), Bass, Mid and Treble for optimizing sound.

Gain (Volume) should be adjusted if the audio level from the auxiliary device is too low or too high. If you hear distorted audio while playing the auxiliary device, you need to reduce (-) the gain. If you notice that the audio is too quiet then the gain setting should be increased (+). The default setting for gain is "68" and may be adjusted in increments between 01-99.

Bass, Mid and Treble default settings are "50" and can be adjusted between 01-99 to compensate for the acoustic presets of the radio.

Making the adjustments

While listening to the auxiliary device, use the DISC or CAT buttons (depending on the radio model) to move between the settings as follows;

DISC (Mode)-1 for Gain (Volume) DISC (Mode)-2 for Bass EQ

DISC (Mode)-3 for Mid EQ DISC (Mode)-4 for Treble EQ

Then use the SEEK button or rotate the TUNE knob to adjust the setting.

NOTE: If you are using an auxiliary device that is using the vehicle's power source and not its own battery, you may have to use a GROUND-LOOP isolator to avoid engine and grounding noise.

Troubleshooting

| Problem | Solution |
|--|---|
| Cannot select the interface. | Check DIP switch settings (refer to Pre-System Setup). With the ignition OFF disconnect vehicle harness from module for one (1) minute and reconnect. Verify that the correct button is used to access the interface. |
| No audio from iPod source. | Reset the iPod. Verify proper connection to iPod/interface. |
| Radio/steering wheel controls do not operate iPod, but audio is still present. | Select DISC/Mode 5 and Track/Channel 1. Switch back to DISC/Mode 1 and try changing tracks. |
| Music is distorted or sound level is too low. | Check and make sure all EQ and BASS boost options are turned off on your iPod (refer to Auxiliary Audio Source). |
| No text displayed. | Make sure DIP switch settings are correctly set for text display (refer to Pre-System Setup). Text display is only supported on SAT capable radios. |
| Interface has erratic recognition or not at all. | Make sure the Ground wire from the interface harness is connected to a clean ground source. |
| iPod does not charge. | Check all connections. Reset iPod and make sure iPod charges while connected to computer or wall charger. |



Warranty

The Rockford Fosgate iPod Interface Module has a warranty of **1 Year**. This warranty covers only the original purchaser of Rockford product purchased from an Authorized Rockford Fosgate Dealer in the United States. In order to receive service, the purchaser must provide Rockford with a copy of the receipt stating the customer name, dealer name, product purchased and date of purchase.

Products found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at Rockford's discretion.

What is Not Covered

1. Damage caused by accident, abuse, tampering, improper operations, water, direct sunlight, excessive heat, theft, shipping.
2. Any cost or expense related to the removal or reinstallation of product.
3. Service performed by anyone other than Rockford or an Authorized Rockford Fosgate Service Center:
4. Any product which has had the serial number defaced, altered, or removed.
5. Subsequent damage to other components.

Limit on Implied Warranties

Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above. Some states do not allow limitations on the length of an implied warranty, so this limitation may not apply. No person is authorized to assume for Rockford Fosgate any other liability in connection with the sale of the product.

How to Obtain Service

Contact the Authorized Rockford Fosgate Dealer you purchased this product from. If you need further assistance, call 1-800-669-9899 for Rockford Customer Service.

Rockford Fosgate

Rockford Corporation

600 South Rockford Drive

Tempe, Arizona 85281 U.S.A.

In U.S.A., 480-967-3565

Customer Service 1-800-669-9899

www.rockfordfosgate.com