

**AUDIOVOX**<sup>®</sup>  
DRIVEN BY DICE ELECTRONICS



iPhone | Internet Radio | Satellite

for selected BMW/Mini Cooper vehicles

**Installation Guide/User manual**

Made for



iPod



iPhone

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## Warning and safety!

Please read these instructions carefully before proceeding. Failure to follow instructions may result in improper operation or injury. Neither Audiovox Electronics Corporation nor Apple Inc., its regional offices, distributors or resellers take any responsibility for any damage or injury as a result of using the integration kit.

- Do not open, disassemble or alter the interface in any way.
- Do not insert anything into the casing.
- Do not cut or try to alter cables in any way and always use the correct connections.
- Only operate unit when stationary or ask passengers to operate it for you.
- Do not allow the Apple iPod/iPhone to distract you from driving.
- Exercise good judgement and keep your eyes on the road at all times.
- Do not expose unit to extreme temperatures, humidity or shock.
- Keep the unit and iPod/iPhone away from fluids.
- Keep away from children! - Interface components may contain small parts, can be broken or disassembled and components may become loose from vibration and heat. Small components and packaging materials may be a choking hazard when handled by children.



## **Congratulations on your purchase!**

Thank you for purchasing this integration kit. Please review this booklet before operating the unit. This interface was designed and manufactured to seamlessly integrate with your vehicle's factory audio system.

## **Product registration**

We recommend registering your Audiovox product so you can receive news about important firmware updates and have unlimited access to our online support system.

### **To register your Audiovox product, please complete the following steps:**

1. Visit <http://www.audiovoxproducts.com>
2. Look up and save the serial number of the product.
3. Complete the product registration form.
4. Submit the form.
5. Save the registration sheet in a safe place for future reference.

If you are unable to complete the registration via internet, please call Audiovox at 1-800-645-4994.



Prior to installation make sure the module's firmware is up to date to ensure compatibility with the latest features and enhancements. Please refer to page 35 to update firmware.

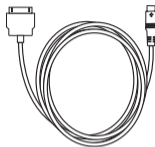
## Silverline DUO kit contents



Silverline DUO module



user manual



iPod docking  
cable

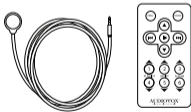


BMW Interface  
Harness

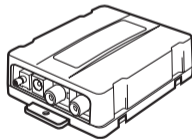
### Optional accessories (sold separately):



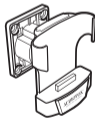
AUX connector



IR Receiver &  
Remote controller



DSP Kit  
(A-ACC-BMW-DSP)

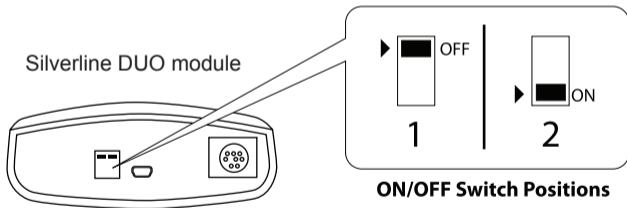


Cradle  
(A-DCR-50-PTH)

## DIP switches overview





The configuration switches located on the Silverline DUO module are used to set various operation modes of the interface. Incorrect DIP switch settings may cause the interface to not work properly or to not operate at all.

**Disconnect the vehicle harness from the module and set the ignition to the off position for 60 seconds after changing the switches then reconnect the module!**



## DIP switch settings for BMW/Mini

The following DIP switch settings are used to configure the Silverline DUO module to interface with the various vehicle radios. Before installation, set the DIP switch to the position shown for the corresponding radios.

Car configuration switches			
<b>BMW Business CD Radio</b>	<b>BMW &amp; MINI 16:9 Navigation Radio</b>	<b>BMW 4x3 Navigation Radio</b>	<b>BMW MID Radio</b>
			
For single line (Non- Navigation) radios in Mini, 3-Series, Z3, Z4, and X3 models.	For 16:9 (wide screen) Navigation radio system in BMW and Mini.	For 4:3 (small screen) Navigation radio system in BMW.	For single line (Non- Navigation) radios in 5-Series, 7-Series, and X5 models.

Radio specific text field configuration should be performed during installation. Please refer to interface setting (DISC 5) section on page 19.



## Supported iPod models and firmware version requirements

Model	Firmware / OS Version
1G nano	1.3.1
iPod 5G	1.3
2G nano	1.1.3
iPod classic	1.1.2
3G nano	1.1.3
iPod touch	iOS 3.1.3
iPhone	iOS 3.1.3
iPhone 3G	iOS 4.2.1
4G nano	1.0.4
120 GB classic	2.0.1
2G touch	iOS 4.2.1
iPhone 3GS	iOS 5

Model	Firmware / OS Version
160 GB classic	2.0.4
5G nano	1.0.2
3G touch	iOS 5
iPhone 4	iOS 5
iPhone 4S	iOS 5
4G touch	iOS 5
6G nano	1.2

## **Attention installer! Please read the following!**

**Audiovox strongly recommends that the unit be installed in an easily accessible place!**  
**DO NOT PLACE IT BEHIND THE RADIO AND DO NOT HIDE UNDER CARPET!**

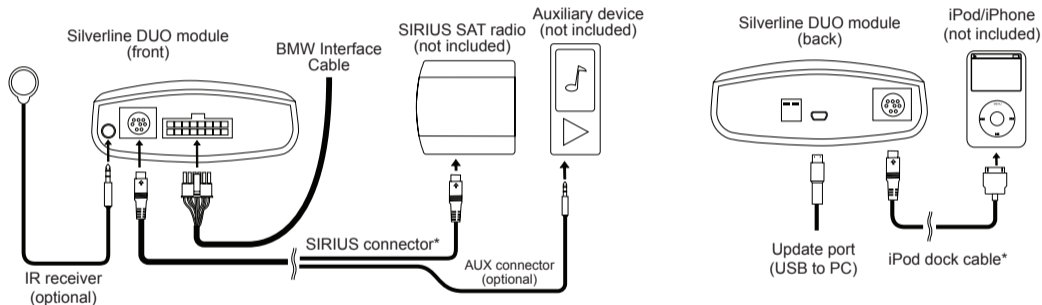
Whether the unit is professionally or self installed, put the module where you, the end user can get to it easily in the future. (Have the installer show you where the interface module is installed.)

Installing the module behind the radio will make it difficult to:

- Add possible future upgrades, changing software, adding new features, improving operation;
- Access the AUX input on the module to attach any audio device;
- Access the DIP switches located on the module;
- Remove the unit in case of failure.

**MAKE SURE THAT THE MODULE IS IN AN ACCESSIBLE PLACE!**

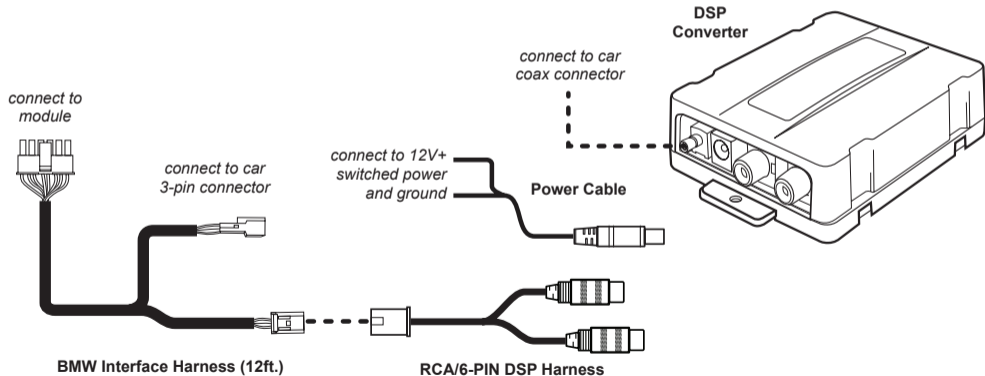
## Connection diagram



\*Do not connect the iPod dock cable under any circumstance to the SIRIUS module connector! Improper connection can cause permanent damage to iPod/SIRIUS module.

## Connection diagram for DSP option

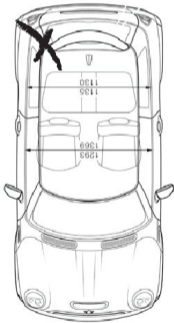
BMW vehicles with Digital Signal Processing (DSP) must use the DSP Kit (PN: A-ACC-BMW-DSP). To confirm if the vehicle has DSP, check for a bare metal coax cable and a 3-pin connector (for connector locations see page 13). DSP was only an option on **some BMW 5-Series, 7-Series, X5, Z4 and X3 vehicles.**



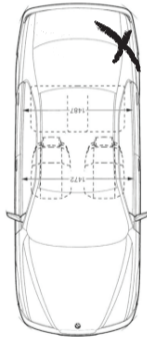
## Factory pre-wired CD changer cable locations

○ DSP Amp

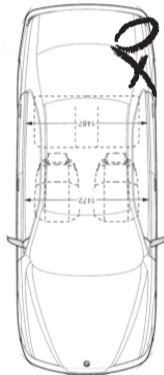
✕ 3-pin/6-pin (or coax) connector location



Mini



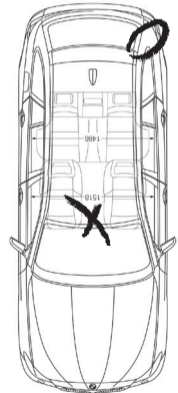
3-Series and Z3



5-Series, 7-Series and X5



Z4



X3

## Installation

**Note:** Installation should only be performed by a qualified professional. Beware of sharp edges to avoid injury and exercise caution when removing trim pieces as they may break. The module should be placed in an accessible location, such as the glove box, consoles, under the front seats or in some cases in the trunk to allow iPod/SIRIUS/AUX cables to be connected. The module firmware may need to be updated periodically and must be removed from the vehicle and connected to a computer to apply the update.

1. Disconnect both battery terminals. These cables must be disconnected during installation to ensure proper initialization of the module when it is connected. **This step is REQUIRED for proper operation of the module!**
2. Access the CD changer cable. The location of this cable varies by BMW model (for connector locations see page 13).
3. **If the vehicle you are performing the installation on has DSP, refer to page 12 and then proceed to step 5.** Locate both the 3-pin & 6-pin connectors. If the vehicle has a factory CD changer installed, the 3-pin & 6-pin cables will be connected to it and will need to be disconnected. If there is not a CD changer installed the cables will be bundled and may be tucked away behind carpeting.

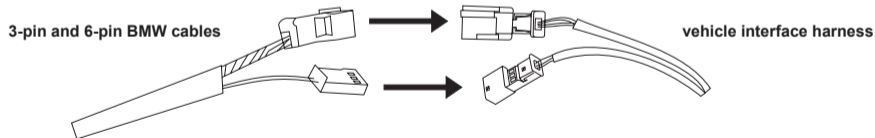


Some vehicles will have the CD changer wiring in a protective sheath which may make it more difficult to locate. **Non-US models** may not be pre-wired for a CD changer, and require an additional harness from BMW to be connected.

4. Connect both 3-pin and 6-pin cables to the BMW Interface Harness.



**ATTENTION!** There are two 3-pin connectors presented in the vehicle. During installation, make sure that the 3-pin connector from the vehicle **DOES NOT** have a brown wire in the middle! The 3-pin connector of the phone pre-wiring looks identical to the 3-pin connector of the CD changer pre-wiring. Locate and use the correct 3-pin cable with the brown wire on the outside! Incorrect connection will result in permanent damage to the unit and will not be covered by warranty!



5. Route the interface cable to the front of the vehicle. Fold down rear seats (if applicable) and route the extension cable through the rear seat bottom cushion. Route the remainder of the interface cable (*ie.* under the door sill or under the driver's seat) to a location where the module can be easily accessed in the future.
6. Make sure you have set the DIP switches on the DUO as specified on page 8.
7. Connect the BMW interface cable, iPod Dock Cable and SIRIUS Connections (if applicable) to the DUO module and double-check all connections. See page 11 (and page 12 if the vehicle has DSP) for the connection diagram.
8. Test the installation.
9. Replace any trim, carpeting or panels that were removed during installation.



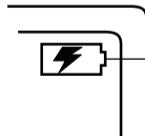
## iPod content browsing

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 selected an Artist may be selected within that Playlist using the Artist Mode. Albums by the selected Artist within the selected Playlist may be selected in Album Mode. "ALL ARTIST" and "ALL ALBUM" designate all available content in those categories.



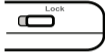

## Charging

The interface automatically charges the battery of the iPod when connected and your vehicle ignition key is in the ACC/ON position.



Charging may be shown by an icon that appears on the upper right corner of the iPod screen. May vary by model.

## iPod locked/unlocked settings and features

	iPod hold ON	iPod hold OFF
		
Radio control	✓	Limited
iPod control	✗	✓
	Before connecting the iPod to the module, turn the hold switch <b>ON</b> to fully control and browse the songs from the wireless remote. The iPod is locked in this state.	Before connecting the iPod to the module, turn the hold switch <b>OFF</b> to fully control and browse the songs from iPod. Browsing capabilities are limited from the wireless remote.

**Note:** Setting the iPod's hold switch must be done prior to connecting it to the dock cable. iPod nano 6th generation will always be in locked mode since it does not have a lock switch.



For iPod touch and iPhone, when the screen is not active (as shown on the left), the iPod/iPhone is locked (Press the power button to lock the iPhone/iPod Touch).

## **Basic operation**

### **Accessing the DUO as the audio source:**

Much like the radio's AM/FM tuner, satellite radio or CD audio sources, the Silverline DUO is integrated to be part of the vehicle's audio system. To access the DUO source, press the MODE or CD button on the radio. Pressing this button repeatedly will cycle through sources present in the vehicle (CD > DUO).

### **DUO source selection:**

The DUO adds additional audio sources including iPod, SIRIUS Satellite Radio\* and auxiliary audio input\*. To cycle between these sources, use the next/previous TRACK buttons within the first 5 seconds of accessing the DUO as the audio source.

*\*These sources require additional parts/accessories/service from Audiovox and/or third parties.*

### **Silverline DUO Interface settings (within first 5 seconds of accessing the DUO as the audio source):**

**Select DISC 1** to apply settings and resume audio playback.

**Select DISC 3** to change default volume level; use track up/down to adjust between Min and Max.

**Select DISC 4** to enable/disable scrolling text.

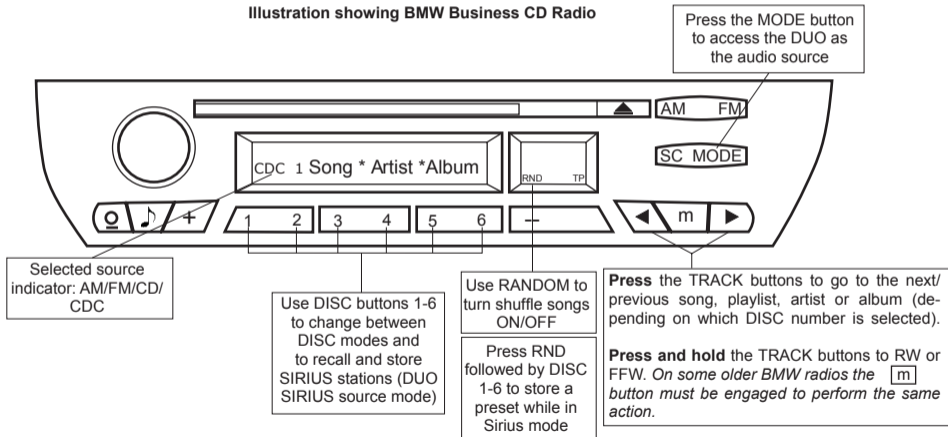
**Select DISC 5** to choose between single line display and multiline display modes (multiline display mode only available on 16:9 Navigation radio).

**Select DISC 6** to view Silverline DUO serial number and firmware version.

DISC 2 has no settings available.

## Operating the DUO from select BMW and Mini radios

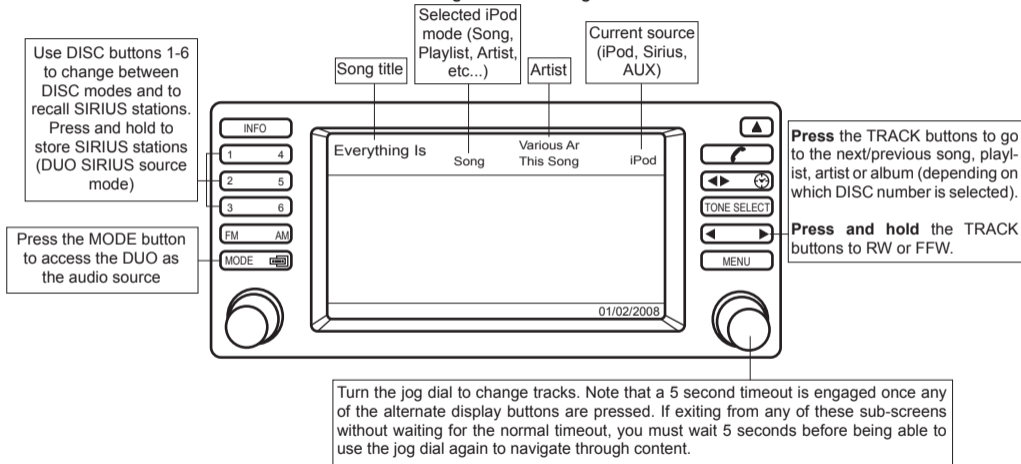
Illustration showing BMW Business CD Radio



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## Illustration showing BMW 16:9 Navigation radio



## Illustration showing Mini Navigation radio



You must have the correct display mode selected for proper operation (see page 19, DISC 5).

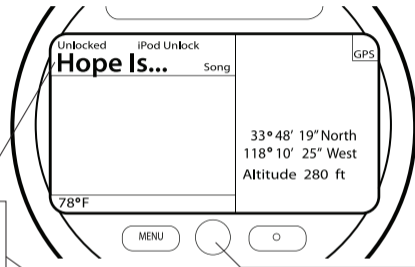
Song/Artist/Playlist displayed here

Press the MODE button to access the DUO as the audio source

Press the TRACK buttons to go to the next/previous song, playlist, artist or album (depending on which DISC number is selected).

Press and hold the TRACK buttons to RW or FFW. On some older BMW radios the **m** button must be engaged to perform the same action.

Selected source indicator: AM/FM/CD/CDC



Turn DIAL for next/previous track.

Press DIAL to store SIRIUS station presets (DUO SIRIUS source mode; see page 24).

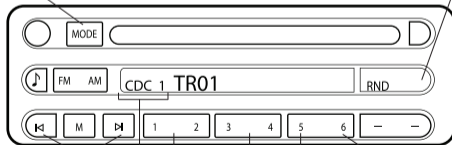
On Mini navigation radios, the RND button is used to toggle between **Menu** and **Text** modes.

**Text Mode (RND enabled):** Displays text from the DUO such as Song/Artist/Playlist titles.

**Menu Mode (RND disabled):** Displays the default navigation and vehicle menu screens.

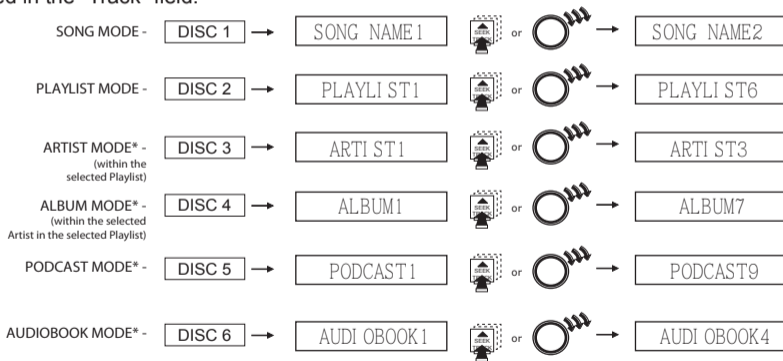
Use DISC buttons 1-6 to change between DISC modes and to recall and store SIRIUS stations (DUO SIRIUS source mode).

Used to store stations to Presets 1-5.



## Controlling the DUO iPod source

The Silverline DUO integration kit features content browsing. After connecting the iPod, select the desired browsing mode by selecting the appropriate DISC. Press the SEEK button or turn the TUNE dial repeatedly to browse contents. 1 second after releasing the button, your selection is executed. The browsing function below is illustrated in the “Track” field.



\*Only available when iPod is locked. When iPod is unlocked the radio will only display song titles.

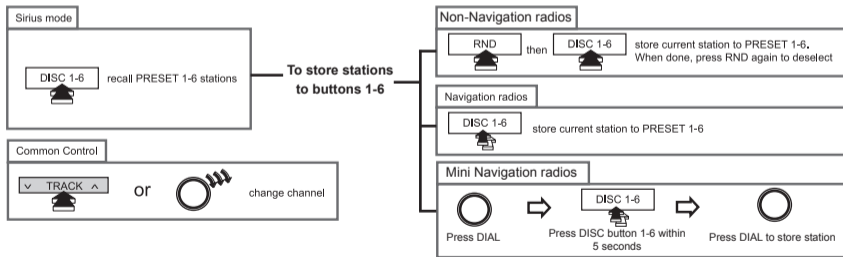
## Controlling the DUO SIRIUS source

The Silverline DUO integration kit features SIRIUS connectivity. Use the TRACK buttons or jog DIAL to browse between subscribed channels.

### To store a subscribed channel to memory:

- **Single line radio:** Tune to desired station. Press RANDOM button and select which DISC button (preset 1-6) to save to. Press RANDOM button once more to store the station.
- **Navigation radios:** Tune to desired station. Press and hold the desired DISC button (preset 1-6) to save as preset.
- **Mini navigation radio:** Tune to desired station. Press jog DIAL, press desired DISC button (1-6), press DIAL to save.

**To recall a memorized channel:** Simply press the desired DISC (preset 1-6).



**NOTES:** If a SIRIUS CONNECT compatible tuner is not detected, then a "No Tuner" vehicle message is displayed.

Go to Channel 000 to view the SIRIUS Tuner ID for activation. The 12 digit SID display format is shown in two parts as SID "123456-" followed by "-789ABC".



## Internet Radio Application Support (iPhone/iPod touch)

This kit includes support for internet radio streaming apps available on the iTunes® Store. Thousands of stations can be streamed through data connections. Supported apps include Livio Car Internet Radio, Pandora, iHeart Radio and more. Supported features such as text display on screen, and next/previous track functions will vary by app.

To learn more about each app specifically, please visit the website for the app you need information about.



## Data Connection Requirements (3G/4G/WiFi)

Users must have an active wireless data connection in order to stream music from an app while in the car. Data connections including "3G" or "4G" through wireless carriers, or a third party wireless Internet access point connected to your mobile device through WiFi will work. Because this app requires a data connection, it will only work on connected devices such as the iPhone and iPod touch.

## Controlling Internet Radio Apps

NOTE: The following features may not be supported by all apps. For demonstration purposes the following examples will show the features for the Livio Car Internet Radio app.

The app must be active on the screen of the device. To do so, simply tap the app's icon and it will load.

**Next/previous TRACK buttons** execute application specific features such as skipping stream or cycling between station presets. **DISC/PRESET (1-6) buttons** are associated with station presets when used with the Livio Car Internet Radio application.

iPhone operating system iOS5 enabled application developers to share the “now playing” screen information. For example, when using the Pandora App, you will see artist, album and song information on the radio's screen. When using an application that doesn't implement this feature, or running iOS4, only the name of the application will be shown.

Please note that although iOS 4 (4.2.1) is supported on iPhone 3G and iTouch 2nd generation, applications do not run in the background. As such, loading the app takes longer than on devices where the app is present in the background.



If your listening experience is interrupted by a call, under most conditions, the app will resume playback at the end of the call.

Music playback apps running on your iPhone are sent to background automatically when the home button of the phone is pressed, but the music playback itself is not stopped.

To resume playback of your iPod music library, stop Livio playback by tapping on the screen below the Livio Radio logo. An icon representing “stop” will show on the main Livio screen. Press the home button to send the application to the background. (Other apps may need to be terminated manually. Please see next page.)

A few seconds after this, the iPod music playback application will reinitialize itself and become active again if the iPod was locked when it was connected to the kit. (This is indicated by an Accessory Connected message being shown when the iPod icon is tapped.)

If the iPod was in unlocked state when it was connected to the kit, press the play button on the iPod application.

## **Text display from the Internet Radio App**

Text that scrolls across the radio’s screen is associated with the stream shown on the radio and displays current song or station information. Stream must be playing before information on the display is updated.

## **Terminate (kill) the App**

If you need to terminate (kill) the app please follow the steps below:

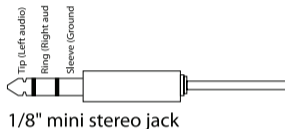
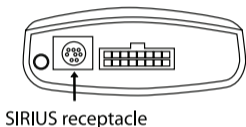
1. Double-tap on the home button of the iPhone to bring up the list of running apps. If you don't see the app's icon right away, swipe the screen left or right to locate it. Note: If you do not see such task bar but rather a music control popup then you have an iOS device that does not support background run of apps, therefore this section is not applicable to you.
2. Press and hold the icon of the app until a red minus icon shows.
3. Tap the red minus icon shown on top of the app.
4. This will close the app.
5. In a few seconds, the iPod music playback app should reinitialize itself and become active again. This can be verified by going back to the list of running apps and swiping the screen until the music control section is shown. The iPod app icon next to the music control sections shows that iPod is your audio source.

## **Internet Radio App Settings**

Many radio stations offer lower bitrates. Selecting streams with a lower bitrate will reduce data usage and may reduce stream interruptions during the drive. For example with the Livio Car Internet Radio app, to adjust bitrates manually, users can: Go to the Setting menu of the device, select the Livio Radio settings the change the Maximum Bitrate Filter and set it to 64K. Other settings such as Buffer time and Reliability filter may also help in getting a more stable connection.

## Auxiliary audio source (only with optional AUX connector)

The DUO AUX cable (A-ACC-106-AUX) can be used to connect an auxiliary device, such as an MP3 player, DVD player or other audio source.

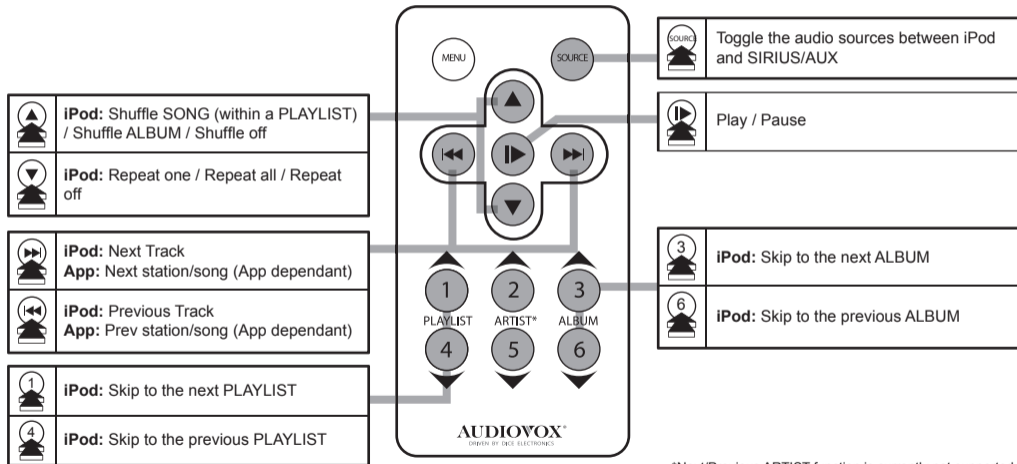


**The auxiliary audio source can be accessed in both CDC and SAT emulation modes.**

To access AUX audio source:

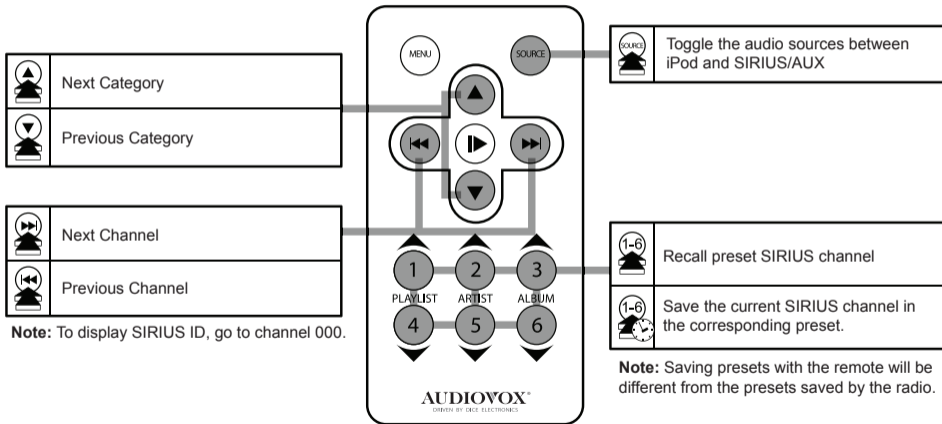
- Plug the mini DIN connector of the AUX adapter cable into the SIRIUS receptacle and connect the 1/8" mini stereo jack to the sound output of your audio device.
- Enter AUX mode (see pg. 19).
- All music playback is controlled through your audio device.

## Optional Remote Kit: Functions for iPod/App



\*Next/Previous ARTIST function is currently not supported.

## Optional Remote Kit: Functions for SIRIUS



## Troubleshooting

<b>Problem</b>	<b>Solution</b>
Radio/NAV display only shows DISC and track number and there is no iPod control.	Make sure DIP switch settings are correctly set for text display (refer to page 8 for DIP switch settings).
No text display on radio.	Make sure DIP switch settings are correctly set for text display (refer to page 8 for DIP switch settings). Please also select proper display mode (refer to page 19, DISC 5).
Correct DIP switch settings but still no text display.	Make sure the module is reconnected with the vehicle off when changing any dip switches. Verify that the vehicle's radio is capable of displaying CD-text. Some early model year radios don't support text display.
Radio/steering wheel controls do not operate iPod.	Reset iPod and make sure most recent iPod firmware is installed.
Music is distorted or sound level is too low with iPod connected.	Make sure all EQ and BASS boost options are turned off on your iPod. Adjustments to the gain setting may be required (refer to page 19).
No audio from iPod source.	Reset the iPod. Verify proper connection to iPod/interface. Check for compatibility. Older iPod models don't support USB audio.



<b>Problem</b>	<b>Solution</b>
<b>Sirius tuner can't be selected.</b>	Ensure the cable connecting SIRIUS tuner is securely connected to the correct receptacle.
<b>Why does the radio display show "EMPTY/STOP" and no music plays?</b>	The iPod has reached the end of a playlist. Please select a new Playlist.
<b>Cannot select the interface.</b>	Verify that the correct button is used to access the interface (MODE/CD). Make sure DIP switch settings are correctly set for text display (refer to page 8 for DIP switch settings).
<b>Radio/ steering wheel controls do not operate iPod.</b>	Reset iPod and make sure the most recent iPod firmware is installed. Check vehicle user manual on how steering wheel controls work, long presses may toggle alternate function.
<b>Why does category read "PRESELCTD"?</b>	Playback of content selected on the iPod before it is connected to the interface continues until new content is selected.

<b>Problem</b>	<b>Solution</b>
<b>Why does the message “iPod UNLOCKED” display on screen?</b>	When the Silverline DUO is playing iPod music in UNLOCKED mode, browsing mode information isn't available so the “iPod UNLOCKED” notification is shown. To view information associated with browsing modes, ensure the iPod's hold button is set before connecting it to Silverline DUO.
<b>The radio displays track 99 (“TR 99”). Track up/down controls do not work.</b>	Track 99 indicates that the Silverline DUO is in auxiliary audio (AUX) mode. See page 19 on how to enter/exit this mode.

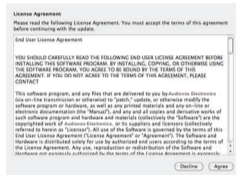
## Updating Firmware (Mac OS illustrated)



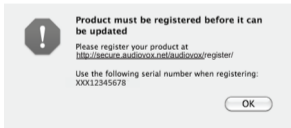
Connect module via mini USB



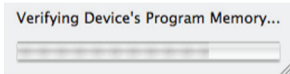
Device specifications and update selection



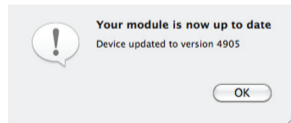
License Agreement (click Agree to proceed)



Product registration notification



Firmware update progress



Module updated successfully!

*The above screen shots are for illustration purposes only.*

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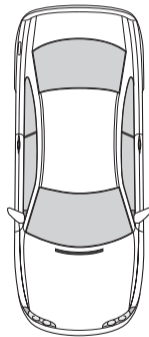
## Installation notes:

Installed by:

Installed date:

Other notes:

Illustration:







BMW/Mini Cooper compatible integration  
for iPod/iPhone, Internet Radio, SIRIUS and AUX.  
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