



Apps | iPhone | iPod | Satellite Radio | AUX







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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 DICE Electronics 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 DICE product so you can receive news about important firmware updates and have unlimited access to our online support system.

To register your DICE product, please complete the following steps:

- 1. Visit http://www.register.diceelectronics.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/support/warranty sheet in a safe place for future reference.

If you are unable to complete the registration via internet, please call DICE Electronics at 1-888-342-3999.



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 34 to update firmware.



Silverline DUO kit contents



Silverline DUO module



user manual



iPod docking cable



Vehicle Interface Harness

Optional accessories (sold separately):



AUX connector



IR Receiver & Remote controller

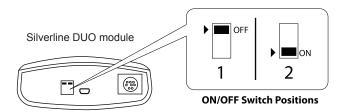


Cradle (DCR-50-PTH)



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

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	
CD changer (CDC)	Satellite (SAT)
OFF OFF	ON ON
Use for radios that have integrated satellite radio or do not support SAT mode. External CDC (trunk or glove box) must be disconnected. Text display is not available in this emulation. Sirius Connect is NOT supported in this mode.	Use on radios with SAT or XM button for best experience. Must be selected to support Sirius Connect tuner. Available on North American radios. Factory SAT tuner can be retained if this integration kit is connected directly to the tuner.



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!

DICE 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.)

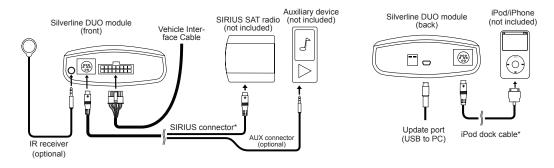
Installing the module behind the radio will make it difficult to:

- -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.



Installation

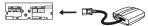
- 1. Verify compatibility
- 2. Disconnect battery



3. Remove radio from car



4. Install Silverline DUO cable



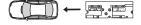
5. Route kit to glove box or other accessible location



6. Connect battery & test



7. Complete install by re-installing radio





Some radios will enter an anti-theft security mode and will lock requiring the radio's security code to be entered to unlock it. This code can be requested from the vehicle's dealership.



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.



Song

Charging

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



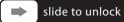
Charging may be shown by an icon that appears on the upper right corner of the iPod screen. May vary by model.



iPod locked/unlocked settings and features

	iPod hold ON	iPod hold OFF
	Lock	Lock
Radio control	✓	Limited
iPod control	×	>
	Before connecting the iPod to the module, turn the hold switch <u>ON</u> 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 OFF 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 SAT/XM button (if SAT emulation is set) or DISC button (if CDC emulation is set). 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 SEEK, TRACK or TUNE buttons within the first 5 seconds of accessing the DUO as the audio source.

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

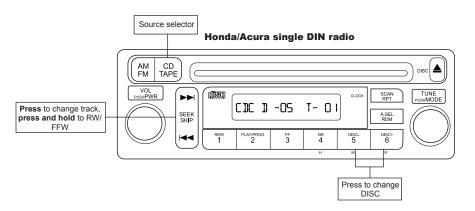
Silverline DUO Interface settings (within first 5 seconds of accessing the DUO as the audio source): Select DISC/PRESET 1 to apply settings and resume audio playback.

Select DISC/PRESET 3 to change default volume level; use track up/down to adjust between Min and Max. Select DISC/PRESET 4 to enable/disable scrolling text. (SAT emulation only)

Select DISC/PRESET 6 to view Silverline DUO serial number and firmware version. (SAT emulation only) DISC 2 and 5 have no settings available.



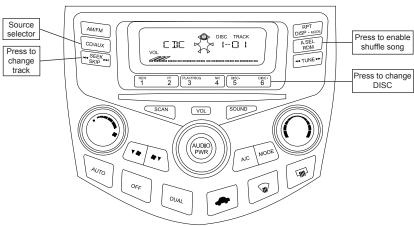
Operating the DUO in CDC emulation mode (example 1)





Operating the DUO in CDC emulation mode (example 2)

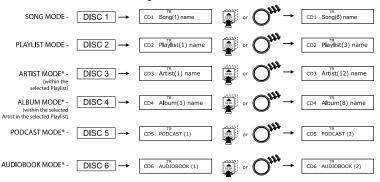
Honda/Acura non-NAV radio





Controlling the DUO iPod source in CDC emulation mode

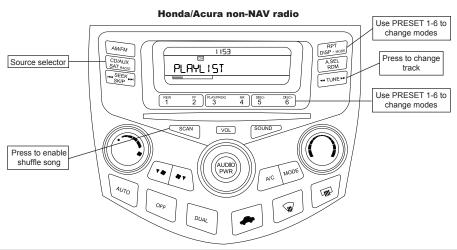
The Silverline DUO features content browsing making it easy to find by song, playlist, artist, podcast and audiobook. After connecting the iPod, select the desired browsing mode by selecting the appropriate DISC. Press the SEEK button or turn the TUNE dial repeatedly to browse contents; 1 second after releasing the button, your selection is executed. The browsing below is illustrated in the "track" text field.



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

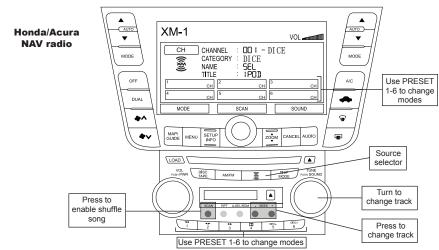


Operating the DUO in SAT emulation mode (non-NAV radio)



DUO

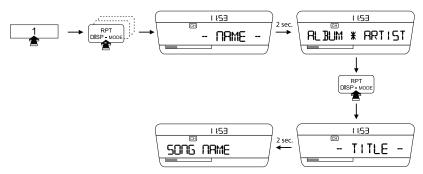
Operating the DUO in SAT emulation mode (NAV radio)





Text display fields - SAT emulation (non-NAV radios)

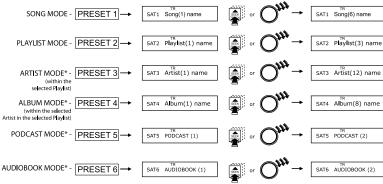
Press the DISP-MODE button to cycle through the available text fields. Note that the display will automatically toggle between the other text fields upon a channel change. Select the "-NAME-" text field to see the mode you are in and select the "-TITLE-" text field to view what is playing. In PRESET 1 you will always see the album and artist information of your selection in the "-NAME-" text field and the song name in the "-TITLE-" text field. The "-Channel name-" and the "-Category name-" fields are fixed.





Text display fields - SAT emulation (non-NAV radios)

The Silverline DUO features content browsing making it easy to find songs, playlists, artists, podcasts and audiobooks. After connecting the iPod, select the desired browsing mode by selecting the appropriate PRESET button. Press the SEEK button or turn the TUNE dial repeatedly to browse contents; after releasing the button, your selection is executed.



^{*}Only available when iPod is locked.



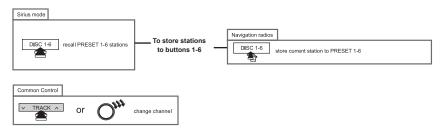
Controlling the DUO SIRIUS source (only available for SAT emulation)

The Silverline DUO integration kit features SIRIUS connectivity. Use the SEEK button or TUNE dial to browse between subscribed channels.

To store a subscribed channel to memory:

Tune to the station to be stored, press and hold the desired PRESET buttons to save.

To recall a memorized channel: Simply press the desired PRESET button (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 unit the music control section is shown. The iPod app icon next to the music control sections shows that iPod is your audio source.

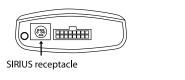
Internet Radio App settings

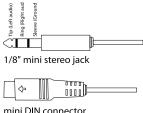
Many radio stations offer lower bitrates. Selecting streams with a lower bitrate will reduce data usage and may reduce stream interruptions during the drive. For example with the Livio Car Internet Radio app, to adjust bitrates manually, users can: Go to the Setting menu of the device, select the Livio 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 (ACC-106-AUX) can be used to connect an auxiliary device, such as an MP3 player, DVD player or other audio source.





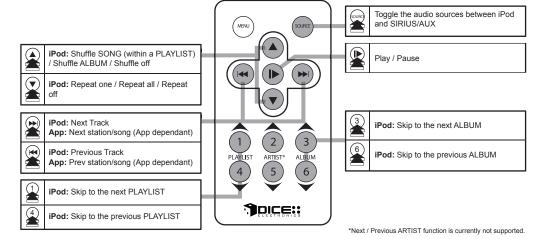
The auxiliary audio source can be accessed in both CDC and SAT emulation modes.

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. 15).
- All music playback is controlled through your audio device.

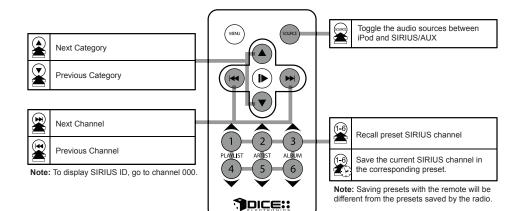


Optional Remote Kit: Functions for iPod/App





Optional Remote Kit: Functions for SIRIUS





Troubleshooting

Problem	Solution
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).
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.



Problem	Solution
Sirius tuner can't be selected.	Ensure the cable connecting SIRIUS tuner is securely connected to the correct receptacle.
Why does the radio display show "EMPTY/STOP" and no music plays?	The iPod has reached the end of a playlist. Please select a new Playlist.
Cannot select the interface.	Ensure the cable connecting DUO is securely connected to the correct receptacle. Verify that the correct button is used to access the interface (CD/SAT).
Radio/ steering wheel controls do not operate iPod.	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.
Why does category read "PRESELCTD"?	Playback of content selected on the iPod before it is connected to the interface continues until new content is selected.



Problem	Solution
Why does the message "iPod UNLOCKED" display on screen?	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.
The radio displays track/channel 99 ("TR 99" or "CH99"). Track up/down controls do not work.	Track 99 indicates that the Silverline DUO is in auxiliary audio (AUX) mode. See page 15 on how to enter/exit this mode.
Cannot control the iPod or other Duo audio source.	If you entered settings mode in CDC emulation and you see anything other than CD1-01, you will need to exit from settings mode by pressing the DISC up/down buttons until CD1 is reached.



Updating Firmware (Mac OS illustrated)



Connect module via mini USB



Product registration notification



Device specifications and update selection



Firmware update progress



License Agreement (click Agree to proceed)



Module updated successfully!

The above screen shots are for illustration purposes only.



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PLEASE NOTE: International customers requiring a product replacement, please contact the dealer your product was purchased from!



Installation notes:

Installed by:	Illustration:
Installed date:	
Other notes:	







Honda/Acura compatible integration for iPod/iPhone, Internet Apps, SIRIUS and AUX. www.diceelectronics.com

DICE-DUO-NISSAN-0312