

CD100 to iPod Adapter

Installation and Users Guide

The worlds first iPod adapter that replaces the entire 100 CD mechanism in your ROWE/AMI jukebox.

In Seconds ...

Without Any modifications !

Now With Video Support
 For 5th Generation iPods



Works with all CD100 through CD100F jukebox models

Easy jukebox installation ! Only three connectors, two RCA audio connectors to your amplifier and the 3-pin communication connector to your jukebox Central Control Computer. Any jukebox that uses the 408322xx Central Control Computer can be adapted to an iPod player, except models CD100I and CD100J, which require a separate mute adapter.

This isn't just an audio interface to your jukebox amplifier, it actually allows the jukebox to select individual songs and videos from the iPod, same as if it were playing CD's. It does this by using playlists that represent each of the CD number selections. iPod supported audio formats are AAC (16 to 320 Kbps), Protected AAC (from iTunes Store), MP3 (16 to 320 Kbps), MP3 VBR, Audible (formats 2, 3 and 4), Apple Lossless, WAV and AIFF. Video formats are M4V, MP4, MOV and H.264.

The iPod adapter connects directly to your jukebox CCC and mimics the mechanism control and CD decoder operations. This tricks the jukebox into thinking it is still hooked up to a CD player.

You can also play selections directly from the iPod controls by switching to iPod mode. When any jukebox selection is made, iPod play is started, when the selection is canceled, the iPod is stopped.

Connection to the iPod is through the 30-pin Docking Port. The iPod adapter is compatible with the 4th Generation iPod with Click Wheel, iPod Mini, iPod Photo, iPod Nano and the 5th Generation iPod. The kit comes with the iPod Adapter, connection cable, audio isolator (to eliminate ground loops and audio noise) and a 9-Volt AC power adapter (which also keeps the iPod charged).

Interface Cable
15-Pin D-sub



LED Activity
Indicator

Selectable
Operation

IPOD ADAPTER

The iPod adapter is a micro computer based protocol converter that is used as a *bridge* to connect the iPod to the jukebox.

When powered up, the adapter searches for an attached iPod then establishes communication with the jukebox.

LED INDICATOR

Slow Blinking Adapter is waiting for iPod communication.

Always On Adapter is waiting for jukebox communication.

Fast Blinking Normal mode. Communication was established.

KIT CONTENTS / CONNECTOR DESCRIPTIONS



DISCLAIMER – PLEASE READ

The iPod Adapter kit was developed for jukebox owners for non public performance use.

We do not supply jukebox licenses.

Downloaded content from the Apple iTunes Store is for personal use only !

It is illegal to use any Apple iTunes Store content for commercial applications.

SaXXOT

SaXXot Deutschland GmbH, Zeppelinstrasse 73, DE 81669 München
Tel.: +49 (0)894141446-00 Fax: +49 (089) 4141446-75, info@saxxot.de - www.saxxot.de

PLAYLISTS & SONGS FOR JUKEBOX CONTROL



A playlist is created for each of the CD's. The first two letters of each playlist name must contain two numeric digits to identify its disc selection number. Any text after these two digits are ignored, except for playlist number 01, which may have three more letters for video iPod setup, this will be explained later.

Playlist numbers can not be skipped, they must be in sequential order starting with 01. You don't need to have all 100 disc playlists, for example, if you only want 5 CD selections, the playlist numbers will be 01, 02, 03, 04 and 05. Playlists are numbered 01 to 99 and 00 for disc selection 00.

To create a playlist using iTunes, click **File | New Playlist** untitled playlist will appear, change the name, type in the two digit disc selection number followed by any text you choose. If you make a mistake, double-click the playlist name and retype.



The order of songs in the playlist are the same as the track number selections. From the screen shot at the left, the song "Signe" would be track selection number 01, "Before You Accuse Me" is track 02 and so on.

Two switch selectable operating modes are offered ...

REM mode allows the jukebox to control the iPod. Jukebox selections are played exactly the same way as if it were playing from the CD's. For example, if you entered 0307, song number 7 from the playlist named 03 will be played.

IPOD mode allows you to play songs continuously, using the iPod buttons. Any selection made on the jukebox starts the iPod play, canceling the jukebox selection stops the iPod.



When in **REM** mode, and the jukebox has control of the iPod, this screen will appear. This is the iPod's display screen when it is being controlled remotely. The iPod buttons are ignored.

Although the screen message says "OK to disconnect", we don't recommend that you unplug the iPod while the jukebox has control and is communicating. Instead, cancel the song play, wait until the screen changes, then unplug the iPod.

SONG PLAYS USING THE IPOD BUTTONS

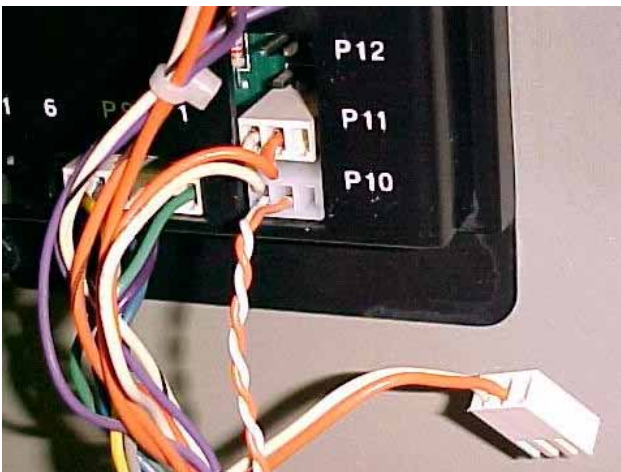


CD selection number 00 is unique in that it could operate in one of two ways. If the "00" playlist is created, the jukebox will play the selected song number within that list as a normal CD selection. But if the "00" playlist is not created, and the disc selection "00" is made, the jukebox will switch to **IPOD** mode and iPod play is started. This mode lets you play songs directly from the iPod buttons. Playing is continuous until the jukebox selection is canceled, then the iPod is stopped (or paused).

You can also lock the iPod adapter to iPod mode by moving the switch to the **IPOD** position. Any song selection will start the iPod playing. The iPod mode does not require playlists which means any iPod can be played through the jukebox using the iPod controls.

Connection to the iPod is through the 30-pin Docking Port. The AC power adapter keeps the iPod battery charged.

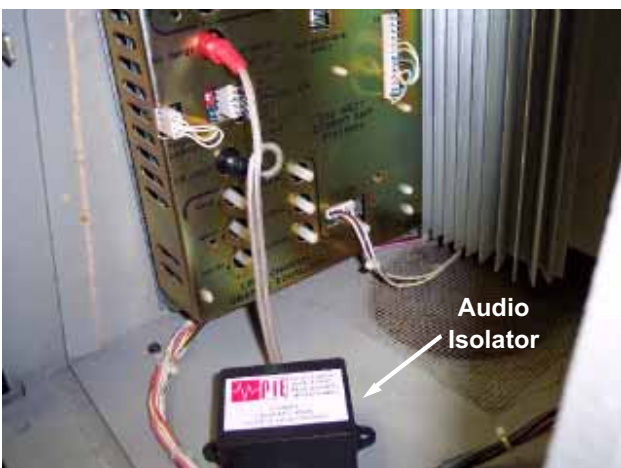
JUKEBOX INSTALLATION



The communication connectors are at positions P10, P11 or P12 on the central control computer. Commonly, two of these positions are used, and sometimes, all three if additional accessories such as wallboxes and remotes are added.

Typically, one connector is for the CD mechanism and the other for the Bill Acceptor. Unplug the CD mechanism and plug in the iPod adapter. When powered up, the adapters' LED will blink rapidly after an iPod has been detected and communication with the jukebox is established.

NOTE: On later model jukeboxes, if the CANCEL button doesn't work or the volume level starts high then drops down after a jukebox selection, you may need to add or move a wire. Visit website <http://www.cdadapter.com/faq.htm> for details.



An audio isolator is used to eliminate "ground loops". Connect the line-out RCA plugs from the connector cable to one end of the audio isolator, the other end connects to the right and left inputs of the jukebox amplifier. **Installation is now complete !**

Useful Jukebox Service Codes

Free Play On/Off	SERVICE 55 hold RESET & press 9
Clear Errors	SERVICE 81 POPULAR
CD Full Initialize	SERVICE 30 POPULAR NORM
CD's Initialized	SERVICE 34 (shows # of CD's initialized)
View # of CD Tracks	SERVICE 32 (enter CD # to see tracks)

"SERVICE" = move switch to SERVICE position



SETTING UP VIDEOS FOR THE 5TH GENERATION VIDEO IPOD



Video files, such as Karaoke or Music Videos, are stored in the iPod Movies list. In order to play these videos, the iPod Adapter needs to know how to get to this list. This is provided as part of the name of the first playlist number, 01.



The video enable command is a dollar sign character followed by two numeric digits. The first digit is the position in the main "iPod" menu to the Videos menu (3rd for this iPod). The second digit is the position in the "Videos" menu to the Movies list (2nd for this iPod).



The iPod Adapter supports up to 100 videos. Songs and videos can be mixed within the playlists. Videos are selected from the Movies list using position numbers from 00 through 99.

It is highly recommended to add a two digit position number to each of the video filenames. This not only makes it easier to identify the videos list position, but also forces the list to be sorted numerically instead of alphabetically.



The final step, changing a song play to video play.

Simply rename the file and insert the dollar sign character followed by the two digit position number of the video.

The example at the right shows the song Gypsy will be replaced with the music video at position 02 in the Movies list.

You can also create playlists of all videos by using a very short MP3 file then copy & rename to all of your video selections or to reduce disk usage space, you can use an MP3 file editor to make a low-bitrate 5-second MP3 file.

Anytime the iPod Adapter is powered up, the first song or video selection will take a little longer to start as iPod initialization and indexing is performed at this time.





Connecting the Fifth Generation iPod to a Television

You must use the Apple iPod AV Cable for connecting to your television. The cable plugs into the AV (headphone) jack and provides RCA left and right audio plugs as well as an RCA composite video plug.

On your iPod, make sure TV Out is set to On
(Select **Video** > **Video Settings** > **TV Out**)

Use full video resolution on Fifth Generation iPods

Apples QuickTime Player Pro allows you to create video optimized for the iPod



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