



Welcome to Spin It Again 2.0's help file. Spin It Again is the easiest way to convert your LPs & tapes to CDs or audio files.

Getting Started / Overview
Purchase Spin It Again!

How To Use Spin It Again

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Record An LP/Tape To CD
Record An LP/Tape To Audio Files
Type Or Look Up Album Information During Recording
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Getting Started / Overview

Normally, you'd have to use several programs to record, split the recording into multiple tracks, remove noise and crackles, create audio files and/or burn a CD. In addition, you'd probably end up using two or three times the hard drive space. Spin It Again streamlines this very specific task of archiving your LPs and cassettes so that you do less work and can spend more time *enjoying* your music.

Spin It Again helps you:

- Hookup your record player or cassette player to your computer
- Set the optimal recording level so you don't record too low or with distortion
- Make a recording
- Automatically split up the recording into multiple tracks
- Reduce tape noise or LP clicks and pops
- Tag or name each track, including artist and album information
- Create audio files for use on your computer or portable MP3 player
- Burn audio CDs

How To Record An LP or Tape To CD

Record An LP/Tape To Audio Files

Split An MP3 Into Tracks

Manually Creating Tracks

Reduce Clicks And Pops From A Record

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Purchase Spin It Again!

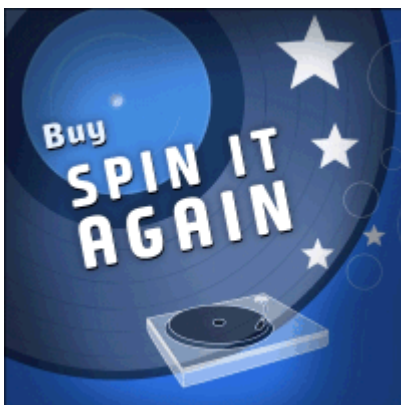
Spin It Again comes with three free recordings, which means that you can process and convert three recordings to CD and/or audio files.

If you are happy with the software and would like to continue using it with unlimited recordings, visit our purchase page at:

<http://www.acoustica.com/spinitagain/buy.asp>

You can convert all your LPs and tapes to CD right now!

An unlock registration code can be emailed to you *automatically*, regardless of the time of day!



[Click here to purchase NOW!](http://www.acoustica.com/spinitagain/buy.asp)

Acoustica accepts all major credit cards, Pay Pal or money orders.

Thank you for your support!

-The Acoustica Team

Record An LP/Tape To CD

Step 1: Hookup Your Record Or Cassette Player To Your Computer

Run the software and click "Hookup Wizard". It will guide you through a series of questions and show you photos and images to help you hook up your record or cassette player to your computer.



Step 2: Get A Good Recording Level

The first time you run the software, it will ask you if you want to run the "Recording Level Wizard". Click "Yes" or click "Level Wizard"



Once the wizard starts, click the "Start" button and follow the instructions. (It will have you play the loudest part of the record or tape.) If you see a level, but don't hear anything and are recording off of a USB device, click the "Monitor" checkbox.

Step 3: Click "Record"

If you are recording a tape, make sure to rewind it. Click "Record" and start playing your record or tape. Once it is done, flip over the record or tape and play side two. When it's finished, click "Next" or "Stop". (Type or Look Up Album Information During Recording)



Step 4: Preview And Edit Your Recording

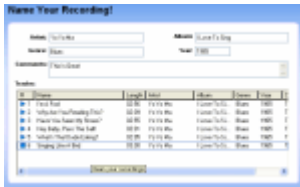
The software automatically splits your recording up into tracks. If there were any erroneous tracks created or if there was extra silence, you can edit it by clicking "Split" and/or by dragging the track markers.



If the recording has lots of clicks and pops, select a built in cleaning preset. Once you are satisfied, click "Next"

Step 5: Tag / Name Your Recording

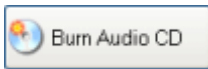
Enter in the artist, album, genre and track names if your CD burner supports burning CD-Text. (This screen is more important when creating MP3s or other audio files.)



Click "Next" when you are done.

Step 6: Click "Burn CD"

Click the "Burn CD" button, click "Next" to accept the default settings and click "Next" again.



Insert a blank CD and wait for it to finish! Enjoy your new CD in your car or home stereo!

Don't forget to print a CD label with the optional [Acoustica CD/DVD Label Maker](#). The track list will be automatically imported from step 4!

Record An LP/Tape To Audio Files

Step 1: Hookup Your Record Or Cassette Player To Your Computer

Run the software and click "Hookup Wizard". It will guide you through a series of questions and show you photos and images to help you hook up your record or cassette player to your computer.



Step 2: Get A Good Recording Level

The first time you run the software, it will ask you if you want to run the "Recording Level Wizard". Click "Yes" or click "Level Wizard"



Once the wizard starts, click the "Start" button and follow the instructions. (It will have you play the loudest part of the record or tape.) If you see a level, but don't hear anything and are recording off of a USB device, click the "Monitor" checkbox.

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The software automatically splits your recording up into tracks. If there were any erroneous tracks created or if there was extra silence, you can edit it by clicking "Split" and/or by dragging the track markers.



If the recording has lots of clicks and pops, select a built in cleaning preset. Once you are satisfied, click "Next"

Step 5: Tag / Name Your Recording

Enter in the artist, album, genre and track names. This will affect how the individual MP3s are named and tagged.



Click "Next" when you are done.

Step 6: Pick A Destination & Format.

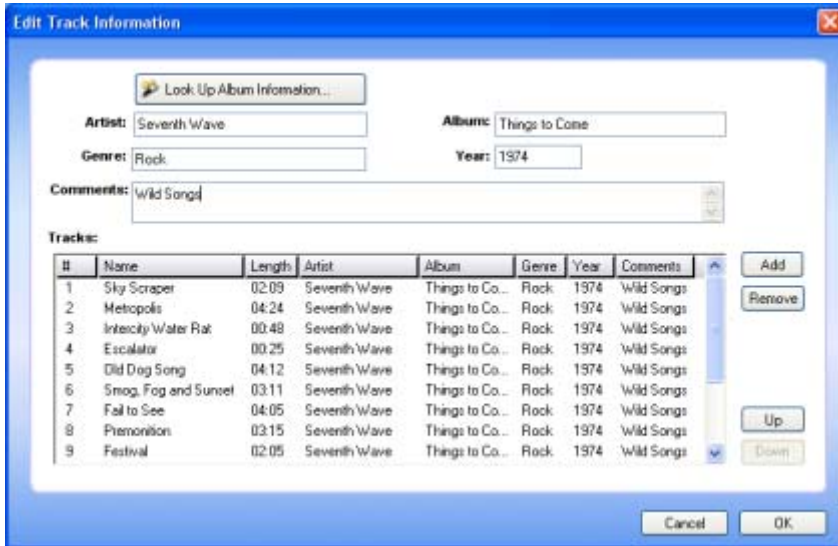
If you want to put it on an MP3 player, make sure it's plugged in and then click "Choose" and select it from the list. Otherwise, choose a folder on your computer. You can also choose a format (MP3*, OGG, WAV or WMA) and click "Details" to change the bit rate and other advanced settings.



Click "Next" and it will create your audio files!

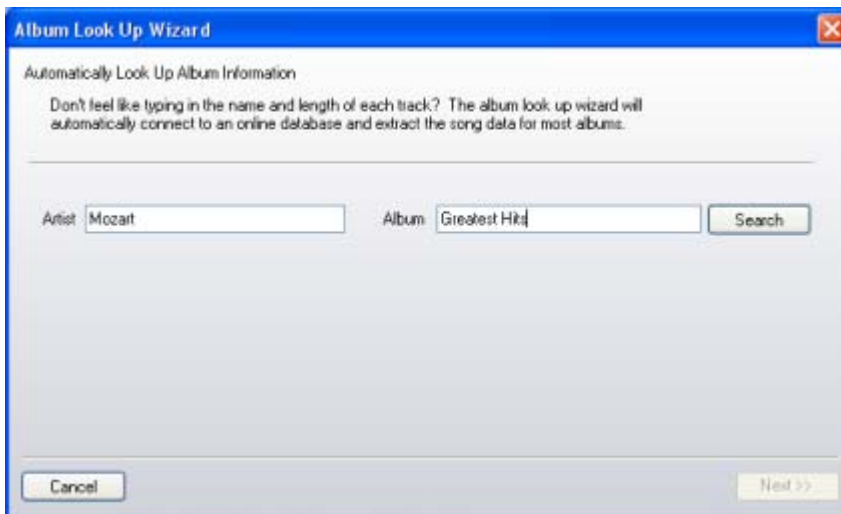
* Creating MP3s is not available in some bundled versions of Spin It Again.

Type Or Look Up Album Information During Recording



Type in the track names and track lengths that correspond to the recording. To add a new track, click the "Add" button. Move tracks around by selecting them and clicking the "Up" or "Down" buttons.

If you don't feel like typing, click the "Look Up Album Information" button. Type in an album and/or artist and click "Search".



You may need to adjust your search query if you are not finding the results you would expect. Also, make sure that you can connect to the Internet!

Split An MP3 File Into Multiple Tracks

Step 1: Load An MP3

Run the software and click "Load A Sound File".



Select your audio file and click "Open".

Step 2: Preview And Edit Your Multi-Track Audio File

The software automatically splits the audio file into multiple tracks. If there were any erroneous tracks created or if there was extra silence, you can edit it by clicking "Split" and/or by dragging the track markers. See more on manually creating tracks here.



Once you are satisfied, click "Next".

Step 3: Tag / Name Your Tracks

Enter in the artist, album, genre and track names. This will affect how the individual audio files are named and tagged.



Click "Next" when you are done.

Step 4: Pick A Destination & Format.

If you want to put it on an audio player, make sure it's plugged in and then click "Choose" and select it from the list. Otherwise, choose a folder on your computer. You can also choose a format (MP3*, OGG, WAV or WMA) and click "Details" to change the bit rate and other advanced settings.



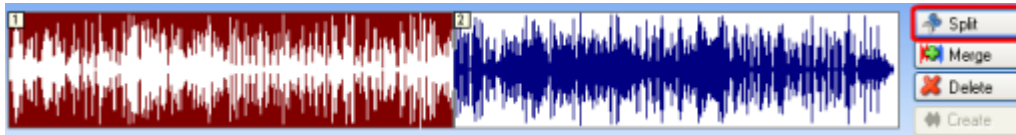
Click "Next" and it will split your tracks!

* Creating MP3s is not available in some bundled versions of Spin It Again

Manually Creating Tracks

In some cases, the automatic track detection will not work as desired. Luckily, you can manually create your own tracks with some built in tools.

Select a track on the top track view. Click the "Split" button to split it into two tracks.



Notice that it splits it exactly in half. Alternatively, you can right click at an exact position and select "Split Track At Cursor" to create tracks.

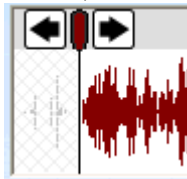
In the bottom track view, use the zoom buttons, the scroll bar and the play back controls to find actual spot where one track ends and the next one begins.

Drag and drop track markers by clicking near the top of a start or end marker and dragging it to a new position.

In this example, the red boxed area shows the noise area we want to get rid of.



Click an arrow or drag the head of the marker to the right to trim out the unwanted record noise, etc.



Use the "Delete" button to remove false positive tracks, ie: record or tape noise or a bad track.

Use the "Create" button to restore a deleted area.

Reduce Clicks And Pops From A Record

Step 1: Load An Existing Recording or Record An LP

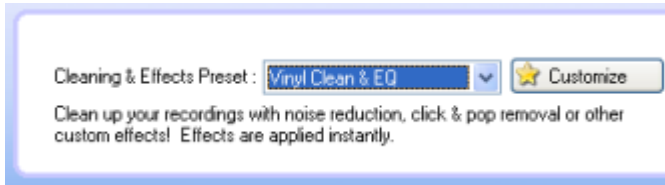
Run the software and click "Load A Sound File" or go through the steps to record an LP

Step 2: Select A Click & Pop Reduction Effect

On the bottom of the "Preview And Edit Your Recording" screen, you will be able to choose a Cleaning & Effect Preset. Choose "Vinyl Clean & EQ" from the drop down box. (Or choose

anything with the word 'vinyl' in it.) [Effect Presets Explained](#)

** Please note: When you select an effect preset, it will be instantaneously applied! (You do not need to play the entire recording, unless you want to double check the quality of the noise removal effects.)



Click "Play" to listen to your recording without record noise. The cleaning algorithms are applied in real time when you play the recording or burn a CD. (You do not need to listen to the whole recording to clean it as some users have tried to do.)

[Don't forget to clean your records before recording them!]

[Learn more about Cleaning And Audio Effects](#)

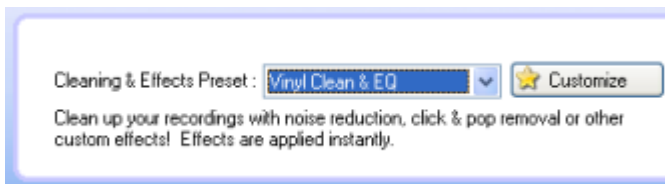
Reduce Tape Noise Hiss or Hum

Step 1: Load An Existing Recording or Record A Tape

Run the software and click "Load A Sound File" or go through the steps to record a tape

Step 2: Select A Noise Reduction Effect

On the bottom of the "Preview And Edit Your Recording" screen, you will be able to choose "Tape Noise BeGone" from the drop down box. ** Please note: When you select an effect preset, it will be instantaneously applied. [Effect Presets Explained](#)

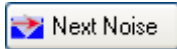


Click "Play" to listen to your recording without tape noise. The cleaning algorithms are applied in real time when you play the recording or burn a CD. (You do not need to listen to the whole recording to clean it as some users have tried to do.)

Step 3: Preview The Recording Without Noise

Click the "Play" button to listen to the recording without noise. If it sounds warbly or as if its under water, it means that it needs a better "noise print". The noise print is a part of the recording that is just noise and not music. The software subtracts the noise print out of the music to create noise-free music.

To automatically choose another noise print, click "Next Noise".



The noise print will look like this: 

If it's still not sounding great, you can try right clicking on a noisy area and choose "Set As Noise Print". (Make sure to not choose an area with music.) Right click on the noise print and choose "Play Noise Print" to hear what it sounds like.

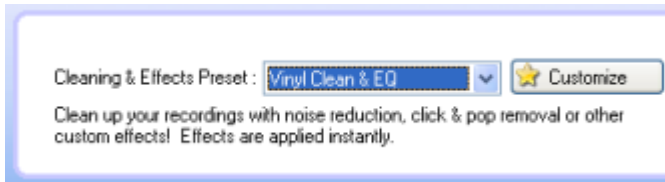
You can also drag and drop the noise print.

If it's sounding like it's under water or warbly, check out the noise reduction troubleshooting area.

Learn more about Cleaning And Audio Effects

Built-in Effects Presets

Spin It Again comes with 14 built in presets to help clean, declick, decrackle and de-hum! Here is a description of each preset. Of course, you can create your own presets, as well.



Clean Anything!

Use this if you are not sure how to clean the recording!

- Moderate noise reduction
- Aggressive vinyl declick & decrackle with hiss & hum reduction
- Basic middle EQ cut to help bring out the treble and bass frequencies

Damaged Record 1

Use this for moderately damaged records.

- Light noise reduction
- Aggressive vinyl declick & decrackle with hiss & hum reduction
- "Classic V" EQ to reduce mid frequencies and boost bass and treble.

Damaged Record 2

Use this for severely damaged records.

- Moderate noise reduction
- Aggressive vinyl declick & decrackle with hiss & hum reduction
- "Classic V" EQ to reduce mid frequencies and boost bass and treble.

Damaged Tape 1

Use this for moderately damaged tape recordings.

- Strong noise reduction
- Aggressive vinyl declick & decrackle with hiss & hum reduction
- "Classic V" EQ to reduce mid frequencies and boost bass and treble.

Damaged Tape 2

Use this for severely damaged tape recordings.

- Maximum noise reduction
- Aggressive vinyl declick & decrackle with hiss & hum reduction
- "Classic V" EQ to reduce mid frequencies and boost bass and treble.

No PreAmp Blues

Use this for recordings made without a preamp.

- Moderate noise reduction
- "Classic V" EQ to reduce mid frequencies and boost bass and treble.

Tape Clean & EQ

Use this older tape recordings.

- Moderate noise reduction
- Moderate hiss & hum reduction
- "Classic V" EQ to reduce mid frequencies and boost bass and treble.

Tape Light Cleaning

Use this to apply a very small amount of noise reduction to a recording

- Light noise reduction for removing constant noise, such as hiss or hum.

Tape Noise BeGone

Use this to apply a moderate amount of noise reduction to a recording

- Moderate noise reduction
- Extra hum & hiss reduction

Vinyl Clean & EQ

Use this for vinyl recordings with a touch of noise reduction and EQ.

- Light noise reduction
- Aggressive vinyl declick & decrackle with hiss & hum reduction
- "Classic V" EQ to reduce mid frequencies and boost bass and treble.

Vinyl Declick & Decrackle

Use this to just remove clicks, pops and crackle.

- Aggressive vinyl declick & decrackle with hiss & hum reduction

Vinyl Declick & Decrackle

Use this to just remove clicks, pops and crackle with a touch of EQ.

- Aggressive vinyl declick & decrackle with hiss & hum reduction
- "Classic V" EQ to reduce mid frequencies and boost bass and treble.

Vinyl Light Cleaning

Use this to lightly remove clicks, pops and crackle.

- Moderate vinyl declick & decrackle with hiss & hum reduction

Warped Mind

Use this to add a crazy echo effect in addition to noise reduction. Not that practical, but it sounds cool!

- Light noise reduction
- Aggressive vinyl declick & decrackle with hiss & hum reduction
- Echos occur at 165 milliseconds after the original signal.

Hook Up Your Record Player or Cassette Player To Your Computer

One of the biggest stumbling blocks to recording your LPs and cassettes to CD is how to hook up your record player or cassette player to your computer's sound card. Luckily, our software has a guide that helps you make the connection.

Simply click the "Hookup Wizard.." button and the software will ask you a series of questions to guide you on the hookup.



If that doesn't help you make the hookup, here are some more tips:

- You will probably need to purchase the right kind of cable from an electronics or audio store such as Radio Shack, Best Buy, The Good Guys, etc. Support your local "Mom & Pop" family audio/electronics store, if possible! The cables usually cost less than \$5.
- If you have a laptop that does not have a sound "line-in" port, you can use a USB audio device.
- Your sound card will require an eighth inch stereo mini plug on one side.
- Use a flashlight to look at the line in port of your computer's sound card.
- The sound card's line-in looks like an arrow going into a speaker.
- If you are connecting your stereo amp to your computer, you will probably need an *RCA to an eighth inch stereo mini*.
- You can usually hook up your tape/cassette player directly to your computer's sound card.
- Record players have an extra low level and usually need to go into the Phono In on a stereo amp or through a preamp before going into the computer's sound card.
- If you don't have an RCA jack on the back of your device, you can still hook it up from the headphone jack of your record player or tape player. You'll need a special cord that goes from a quarter inch stereo jack to an eighth inch stereo mini.
- You may need to purchase a new record player or cassette deck.

Getting A Good Recording Level

Click the "Level Wizard..." button to launch the Level Wizard.



The Recording Level Wizard helps you get the best recordings.



Step 1: Choose the right sound card and source

If you have more than one sound device, make sure to choose the one that your record player or cassette player is plugged into. The software will automatically attempt to choose the "Line In" or equivalent. However, all sound devices are different and you may need to manually select the correct source. (If it's a USB device, make sure that it is connected.)

Step 3: Check "Monitor" if necessary

If you have a USB sound device and you'd like to be able to hear the recording through your speakers, click the "Monitor" checkbox.

Step 3: Start the Wizard

Click "Start". Make sure to play back the loudest part of the loudest song. It will automatically lower the recording level until it is optimal. In addition, it may have you turn down the input level from the tape or record player.

(IMPORTANT: You may have to lower the volume on your stereo amp if the signal is coming in too loud. Spin It Again will some times be able to detect distortion, but not always.)

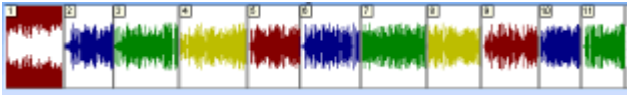
Get A Strong Recording Level

Later on, after your recording is done, make sure you don't have a weak recording. If your recording looks like a weak recording, you may still need to adjust a volume or input to get a stronger recording level.

Example of a weak recording level:



Example of a strong and desired recording level:



Clean Your Records Before Recording Them

Start with the cleanest records possible. If you can see dust on them, that will turn into clicks and pops in the recording. That should be avoidable. You can use a soft lint-free cloth or brush to clean them, or you can purchase a special spray.

Do not use TAP water to clean the records as this can cause corrosion. If you are going to use water, purchase some distilled water.

Purchase a new needle if possible. If you've been using the same needle for 50 years, it might be time to replace it.

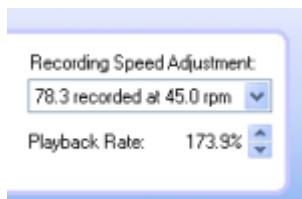
If your record player is really warped, you may need to get a new one. After all, it's not the record player we care about, it's the music!

Visit our accessories and equipment page for helpful links:

<http://www.acoustica.com/spinitagain/buyequip.htm>

Recording 78s at 45 rpm

Most record players play at 33 or 45 rpm. If you have some non standard records that play at 78 or 16.7 rpm, you can still record them at the closest speed and then adjust the rate later.



- 1) Set your record to 45 rpm and place your 78 rpm record on the player.
- 2) Record both sides of the album.
- 3) On the "Preview And Edit Your Recording" page, go to the bottom and look at the "Recording Speed Adjustment" drop down control.
- 4) Choose "78 recorded at 45 rpm"
- 5) Note that the "Playback Rate" is now 173.9%

Of course, you can do the same with 16.7 speed records. And, if you have recorded some other non standard rate, you can calculate and manually set a new playback rate with the following equation:

Playback Rate = (Actual Speed of Audio / Recorded Speed Of Audio) * 100

Hardware Hookup Wizard

The Hardware Hookup Wizard guides you through the sometimes complicated process of hooking up your record or cassette player to your computer's sound card.

Click the "Hookup Wizard" button to start it. (You can find this button on the first screen or on the recording screen.)



The wizard may recommend some additional equipment:

- A cable to connect the tape or record player to your computer's sound device.
- A preamplifier for LP recordings.
- A new record or tape player

More tips on hooking up your record player or cassette deck to your sound card. You may need to purchase the right kind of cable from an electronics or audio store such as Radio Shack, Best Buy, The Good Guys, etc. Support your local "Mom & Pop" family audio/electronics store, if possible! The cables usually cost less than \$5.

Visit our accessories and equipment page for helpful links:

<http://www.acoustica.com/spinitagain/buyequip.htm>

Recording Level Wizard

Click the "Level Wizard..." button to launch the Level Wizard.



The Recording Level Wizard helps you get the best recordings.



Sound card or USB sound device

If you have more than one sound card or USB sound device, choose the sound card that you'd like to record from. Make sure that your record or tape player is connected to the line in of the selected sound card.

Source

Your sound card has multiple inputs, such as Microphone, Wave, Line In, CD, Auxiliary and others. If you are recording from the Line-In, make sure to choose a source that has "Line-In" in it's name. If you aren't sure, play back some music on your cassette or record player and change the input until you see the levels in the Level control.

Level

This shows the signal from the left and right channel inputs based on the selected Source and Sound card.

Volume

This is the recording level. It is automatically adjusted when you run the wizard. You can also adjust it manually. This will control how strong the signal is recorded. If it is strong, you may record distortion, depending on your setup.

Open Mixer...

This button launches the Window's sound mixer which will let you adjust the playback and recording levels of all controls on your sound card. On some computers and sound cards, this may not do anything.

Start

This button starts the Recording Level Adjustment Wizard and will help you set the optimal recording level. (HIGHLY RECOMMENDED!)

Voice On/Off

This turns the voice assistant on or off.

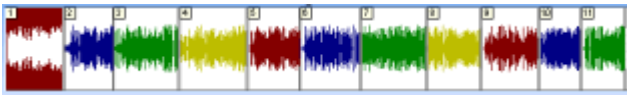
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Example of a weak recording level:



Example of a strong and desired recording level:



Choose Tape, LP or Existing File Screen

On the first screen of Spin It Again, you can choose to record an LP, tape or load an existing audio file.



Record A Vinyl LP *

Choose this option to record a 16's, 33's, 45's or 78's.

Record A Cassette Tape *

Choose this option to record cassette tapes, reel to reel or 8-tracks.

Load A Sound File

Choose this option to load and edit an existing MP3, WAV, OGG or WMA file that is already on your computer.

Hookup Wizard...

Click this for help on connecting your record or cassette player to your computer. More...

Voice On/Off

Turns the voice assistant on or off.

Settings

Brings up the settings and advanced preferences.

* **Note:** You can use the software to record from Microphone, MIDI, Wave, Auxiliary or

whatever you'd like. Just choose either one of the recording buttons to record from a source other than LP or tape.

Recording Screen



Step 1: Make sure you are ready to record!

If you haven't hooked up your cassette or record player to your computer, run the "Hardware Hookup Wizard"

If you haven't adjusted your recording level, run the "Level Wizard"

Step 2: Adjust "Auto Pause" if necessary.

The software will automatically pause recording after a certain amount of time. If you are going to be gone for any amount of time, this allows you to set the maximum time it will record. Otherwise, it would fill up your hard drive with hours of silence.

Choose an auto pause time which is a little longer than the music you are going to record. For cassette tapes, make sure you rewind it first!

Step 3: Start recording

Click the "Record" button and then start playing the record or press play on the tape deck.

Step 4: Type or look up album information during recording

While the software is recording, click "Type or Look Up Album Info..." button and enter in the album and track information. On this pop up window, you can also click a button that lets you type in the album or artist name and automatically get the track and album information so you don't have to type it! (The track times and number of tracks can help in track detection, especially if the album has continuous audio such as a live or concert recording.)

Step 5: Record the other side of the tape or record

The software will automatically pause when it senses the end of the record. Flip the record or tape over and play side two.

If the software auto-paused, click "Record" before playing side two.

Step 6: Finished

Once the software senses the end of the side two or it auto-pauses, click "Next" to go to the "Preview And Edit" window.

Tutorial : Record A LP/Tape To CD

BUTTON REFERENCE**Record / Pause button**

Press the Record button to start recording. As soon as you press Record, it turns into a Pause button. Clicking Pause will pause the recording so that you can take a break, flip over to another side, etc.

Stop button

The Stop button ends a recording. Once a recording is ended, you aren't able to append any more audio to it.

New button

This clears and deletes the current recording and lets you start over.

Monitor checkbox

If you have a USB sound device and you'd like to monitor or hear the recording in real time, click "Monitor" to turn it on.

Auto Pause After controls

If you are going to be gone or not actively monitoring the recording and you'd like to make sure that the software will not fill up your hard drive for hours and hours, make sure to check "Auto Pause After" and then select the maximum number of minutes that it will record for. (Spin It Again will stop recording if it thinks it has reached the end of an album, but if the record or tape player is noisy, it may not automatically turn off, which is why we created this fail safe for you.)

Voice On / Off

Turns the voice assistant on or off.

Level Wizard...

Runs the Recording Level Wizard

Hookup Wizard...

Runs the Hardware Hookup Wizard

Preview And Edit Screen

After you've finished recording, you have the chance of previewing and editing the recording so that you can remove extra silence, clean up the clicks, pops and remove unwanted tape

hum. By default, the software will automatically split up the recording into multiple tracks based on a silence location algorithm and/or typed or looked up track times. (In some cases, it doesn't accurately split up the tracks and you'll need to edit the tracks manually. See track splitting troubleshooting.)



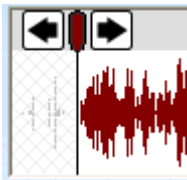
There are two views of the recording. The top view shows all the tracks, the track numbers and is a quick way of getting around the entire recording. The bottom view allows you to zoom in and out, and adjust the start and end of each track. (In the screen shot above, track three is shown in **green**.)

You can adjust a track's start and end by dragging it or clicking the track adjustment buttons.

The figure below shows some unwanted record noise highlighted by a red square.

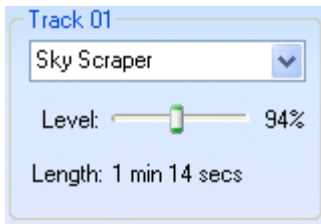


Adjust the start marker by dragging it to the right to get rid of the record noise.



Track one now starts at the beginning of the music.

You can also set the name and volume for each track as shown in the figure below.



(If you have typed in or looked up album track names, they will appear in the drop down list.)

BUTTON REFERENCE

Edit Album Info... button

This pops up the Edit Track Information window that allows you to type in the track names, track lengths, album, genre, artist and year. In addition, you can click a button to look up the album information automatically online through the MusicBrainz.org lookup service!

Clear All button

Clears all track information and the recording becomes one large track.

Analyze button

Click this to reanalyze the recording for tracks. It will attempt to figure out where the tracks are and where the unwanted audio is. It won't always find all tracks. You can adjust three parameters: music threshold, minimum track length and minimum time between tracks. In addition, it will use any typed or looked up album track times to try and determine where the songs are. See track splitting troubleshooting for more help.)

Split button

This will split the currently selected track into two parts. This is useful if there are two tracks in a spot that the software auto determined to be one track.

Merge button

This will merge the currently selected track with either the next non-track space or track, which ever is first. This is useful if the software mistakenly made two tracks where there was really only one track.

Delete button

This will change a track into a non-track and the audio will be ignored for the mix down and burned CDs. If the software recorded a bunch of record needle noise at the end of the record or if there was a track that skipped for ever, use this to remove it.

Create button

This will restore an unwanted non-track space to become a track. Just select an unwanted non-track space and then click "Create" and it will turn into a track.

Rewind button

This selects the previous track. If it is currently playing, it plays the previous track.

Play / Stop button

This plays the recording. It will skip all non-track unwanted areas.

Fast Forward button

This selects the next track. If it is currently playing, it plays the next track.

Preview Play button

This will play a few seconds of the start and end of each track. If the voice assistant is on, she will say "Start Of Track " and "End Of Track" before each preview. (The default mode is to auto preview play when you first go to this screen.)

Zoom In button


This will zoom in to the recording for a closer and more detailed view.

Zoom Out button

This will zoom out of the recording for a larger view.

Next Noise button

If a noise print is set and the Acoustica Noise Reduction effect is loaded, this button will auto find the next best suited noise print. Troubleshooting noise reduction.

The noise print looks like this: 

Show Noise button

If a noise print is set and the Acoustica Noise Reduction effect is loaded, this button will scroll to the current noise print. Note that you should stop play back before clicking this so that it doesn't auto scroll based on the current playback position. Troubleshooting noise reduction.

The noise print looks like this: 

Cleaning & Effect Preset

This is a drop down control that lets you choose an effect preset, such as click and pop reduction, noise removal or other custom settings. Choose "<No Effect>" to turn off any processing. Choose "<Create New Effect>" to make your own meta preset.

More On Cleaning And Audio Effects

Built-in Effect Presets

Customize button

This lets you customize the currently loaded effect. Choose any effects in the list and adjust their settings. The software will handle third party DirectX and VST effects if installed.

More On Cleaning And Audio Effects

Recording Speed Adjustment

If you recorded a 78 at 45 rpm or a 16.7 @ 33 rpm, click the drop down and select the adjustment. This will set the appropriate playback rate to correct for the speed difference.

Playback Rate control

Adjust the play back rate to accommodate for record players that don't play back at the correct speed.

Voice On / Off

This turns the voice assistant on or off.

Settings Button

Launches the settings & preferences screen.

Tagging/Naming Your Recordings Screen

Enter in the artist, album, genre, year and comments for your recording. Click on each track to type in a track name. If you want to double check a track, you can click it to play it back.

If you have already entered the track or album information on a previous screen, it will already be entered. You can optionally click the "Look Up Album Information..." button to connect to the MusicBrainz.org service and automatically look up the album information and track names!

TIP: If any track looks extra large, it may actually be two tracks. Click "<< Previous" and double check it in the Preview & Edit screen

This track information will be used for:

- CD Text for burned CDs (If supported by your hardware)
- Tag and file naming. (If rendering to audio files)
- Sending track information to the CD/DVD Label Maker. (Optional add-on)

TIP: You can use the TAB key or the arrow keys to quickly navigate from track to track.

Click "Next >>" when you are done.

Burn A CD And Or Create Audio Files Screen

On this screen, you have the option of burning an audio CD and / or creating audio files.

Burn CD & Create Audio Files Button

Choose this if you want to burn a CD and create audio files.

Burn Audio CD

Choose this if you just want to burn an Audio CD.

Create Audio Files

Choose this if you just want to create audio files.

Make A New Recording

Choose this if you want to start over.

Save Recording...

Normally, all your recordings go into your recording folder. When you quit the software, it will ask you if you want to delete it. If you don't delete it, you can load it again. The "Save Recording" feature lets you save the raw, original recording to work on later. It will save a .WAV file and a .SIA file. The .SIA file contains the track information, times and names. The .WAV file will be the original recording without any effects or processing.

Print A CD Label...

Choose this to print a CD label or jewel case cover for this CD. The track information will be sent to the optional [Acoustica CD/DVD Label Maker](#).

TIP: The "Next Operation" is shown below the buttons and if you always burn a CD, you can simply click "Next >>"

Audio File Settings Screen

Choose your audio format, bit rate and other format settings. This screen shows how much space is needed and how much space in MB is available. Set the folder that you wish to create the audio files in.



Format

Select from MP3*, WAV, WMA and OGG.

Details...

Select the bit rate, type of encoding and other details based on the selected format.

Folder

Enter in the folder that you wish to create the audio files in. You may enter in a folder that does not exist and Spin It Again will create it for you.

Choose...

This lets you choose a folder or portable MP3 device to create your audio files in.

Voice On / Off

This turns the voice assistant on or off.

Settings Button

Launches the settings and advanced preferences window.

* Creating MP3s is not available in some bundled versions of Spin It Again.

CD Burning Settings Screen

Choose which CD recorder to use, the speed, number of copies, CD-Text options and testing options. Please note that if your recording spans more than 80 minutes, it will require two or more CDs. If you don't wish to burn two CDs, go back to the Preview And Edit Screen and delete some tracks.



CD Burner

If you have more than one CD recorder or CD burner, select the one you want to burn with.

Speed

Choose the speed to burn a CD with. Slower burn speeds will take longer, but will be more compatible with CD players. If you do not have buffer underrun protection or "Burn-Proof", lowering the burn speed will help to ensure a successful burn.

CD-Text

CD-Text is an option that must be supported by your CD recorder and the burning engine. A CD with CD-Text will show track and artist information when it is played on CD-Text enabled CD player. (Look for a CD-Text logo on your CD player. Most Sony CD players have it.)

Test Mode

If this option is on, the software will not use waste a CD and will simulate the burning of a CD. In this way, you can adjust the settings that work best for you before using any blank CDs. (The two options to adjust would be "Convert To Wav Files First" and "Speed")

Convert To Wav Files First

This option will convert all tracks to temporary WAV files first. In some cases, if you are having burn failures, you should choose this options, as it will require considerably less computer power to burn the CD. However, it will use up to 700 MB of hard drive space.

Number Of Copies

Set the number of copies you wish to make. Note that if the recording spans more than one CD, this will multiplies the total number of CDs needed by the number of copies, ie: If three CDs are needed for the recording and you set the number of copies to four, it will need 12 blank CDs for the burn.

Working/Processing Screen

This screen shows the progress for the creation of audio files and/or the progress of burning your audio CDs. After it's done, it will play a sound to notify you.

Abort Button

Click this to cancel any operation currently under progress. If it is currently burning a CD and you click Abort, the CD will become unusable.

The Voice Assistant



The Voice Assistant will add that extra help by speaking about current software actions and events. It will guide you through the following things:

- Hooking up your record or tape player to your computer.
- Setting a strong recording level.
- Previewing Your Recording (Preview Mode)
- Audio instructions on each main page.
- Notification of a successful CD burn or audio file creation

If you do not wish to hear the Voice Assistant, click the "Off" radio button. If you want to turn the Voice Assistant back on, click "On".

Settings

You can edit advanced preferences and options that are rarely changed in the settings.

There are five setting tabs:

- Audio
- Recording
- Miscellaneous
- Cleaning & Effects
- File Tagging

Click "OK" if you are happy with the changes you've made to the settings. If you wish to cancel or back out of the changes, click "Cancel".

Audio Settings

Playback Device

If you have more than one sound device, choose the one you'd like to play from.

Recording Device

If you have more than one sound device, choose the one you'd like to record from.

Monitor Recording Device through Playback Device

Some sound devices such as USB sound devices do not allow you to hear or monitor the incoming audio. This option instructs the software to play the recording audio through the playback device.

Sample rate:

Choose the sample rate to play audio at. The default is 44,100 (CD quality). Your recording sample rate and play back sample rate should be the same, in most cases.

Bit depth:

Choose the bit depth to play audio at. The default is 16 bits (CD quality). Your recording bit depth and play back bit depth should be the same, in most cases.

Automatically preview play after recording is done

When the recording is done, the software will automatically play X seconds of the start and end of each auto recognized track. If the voice assistant is on, it will speak "start of track" and "end of track" before each segment.

Preview Length

If the automatic preview play option is turned on, this determines how much audio to preview.

Voice

Turn the voice assistant on or off.

Recording Settings

Level Wizard...

This runs the Recording Level Wizard.

Recording Folder:

This is where your recordings will be stored. You can change the folder by clicking "Choose..." or by typing in a new folder in the edit box.

Always Ask Before Automatically Detecting Tracks

If checked, the software will ask you if you want to automatically detect tracks based on the settings below.

Use Album Information To Improve Track Detection

If checked, the software will use the album information typed in or looked up online to improve recognition of tracks. For example, if you have a live or concert recording, it is sometimes difficult to tell where one song ends and the next ends based on silence. This option assumes that the times that you type in are correct.

Automatically Detect Tracks

If checked, the software will automatically split up the recording into multiple tracks. It will use the following parameters.

Consider It A Track When

The following parameters will help determine if audio is silence, garbage or a track.

The volume is greater than X % - (Music Threshold)

If the volume is greater than X %, we consider it signal/music and not record or tape noise. Since recordings are not perfectly silent, this is a threshold that can be used to help separate noise from music. (The default is 10%)

It is longer than X minute(s)

If the software detects music signal and not noise (see above) for X minutes, it will consider it a track. This helps eliminate false tracks such as record scratches, tape clicks and so on. (The default is 1/2 minute or 0.50 minutes.)

It is separated by at least X seconds of 'silence'

Music will sometimes have silence in it and if the software considered every silent area it found a new track, it would end up with a lot of false positive tracks. Usually, tracks will be separated with at least two seconds of silence. (The default is 1.75 seconds.) Note that this will consider silence to be anything under the music threshold % above.

Miscellaneous Settings

Normalize Volume

Choose between the following options:

- Do not normalize
- Normalize based on entire recording
- Normalize each track individually

Normalization will be increase the audio level to the maximum possible volume without distortion. If your recordings look more like a horizontal line, you should rerun the Recording Level Adjustment Wizard. and re-record. Normalizing each track individually will analyze the maximum signal for a specific track and adjust the volume. Normalizing based on the entire recording will analyze the entire recording and then adjust each track by the same amount. Normally, you should use "Normalize based on entire recording", but "Normalize each track individually" may work well with mix tapes or compilations.

Fade Track Edges (to reduce clicks between tracks)

This option will fade the edges (start and end) of all tracks. Note that it will not fade tracks that have no audio gap between them.

Pause Recording When Silence Is Detected

This is an optimization for recording to eliminated the recording of extended periods of silence. If you are having trouble recording songs with really long fade ins, turn this option off.

Ask Before Deleting Recorded Files After Use

If checked, the software asks you if you want to delete the original temporary recording after

use.

Delete Recorded Files After Use

To help cut down on used hard drive space, the software will automatically delete recorded files when you quit the program or start another recording.

Show Folder After Rendering Files

The software will open the folder where the new audio files were created.

Ask Before Allowing Level Wizard To Select The Best Input

If checked, the software will ask to automatically change the recording input to "Line In" when running the Level Wizard...

Allow Level Wizard To Select The Best Input

If checked, the software will automatically set the recording input to "Line In" when running the Level Wizard...

Advanced CD Burner Options

Use X Minute Blank CDs

Choose the length of audio CDs that you are going to burn. The most common length is 80 minutes. (The default is 79 minutes which helps to accommodate for a few burners which can only burn 79 minutes and 29 seconds)

Use IMAPI For Burning (XP Only)

For Windows XP only! You can have Spin It Again use Windows XP's built in CD burning system. It will take longer and require more disk space. It will also burn your CDs in Track At Once (TAO) mode which may not be as compatible with all CD players. If you are having problems burning, you might try this option. (Please note that you will need to restart the software before this change will be activated.)

Use Acoustica ASPI Layer

The tells the software to use the Acoustica ASPI layer . If this is unchecked, Spin It Again will attempt to use an Adaptec / Roxio ASPI layer. Try toggling this option, if you are having problems burning CDs. (Please note that you will need to restart the software before this change will be activated.)

Goldenhawk Drive Override

This button allows you to configure your CD burners that our software fails to recognize. You can set up the software to use a 'generic' CD burning driver or choose from a list of similar CD burners. This is not guaranteed to work, but is there as an option. If, after trying this option that the software crashes when it gets to the CD burner page, you should delete a file called "DEVICES.DEF" located in your Spin It Again folder. (Please note that you will need to restart the software before this change will be activated.)

Cleaning & Effects Settings

This settings page shows all effect presets which are actually combinations of effects and cleaning filters. You can create new effects, edit them, delete them or rename them. Click on an effect to edit, rename or delete it.

New

This creates a new effect.

Edit

This edits the currently selected effect.

Rename

This pops up a window which lets you rename the selected effect

Delete

This deletes the selected effect.

Load DirectX Effects

This will cause the software to load any optional 3rd party DirectX effects found on the computer. These plug ins provide extra processing beyond the default Acoustica effects.

Load VST Effects

This will cause the software to load any optional 3rd party VST effects found on the computer. These plug ins provide extra processing beyond the default Acoustica effects.

Edit VST Effect Folders...

VST Effects are not loaded automatically. VST plug ins or .DLL files are located in various folders on your computer. If you have a VST plug in saved on your computer and Spin It Again is not finding it, you'll need to add the folder that the plug in is located in. (VST plug ins end with .DLL. Note that not all .DLL files are VST plug ins, though.) Click "Edit VST Effect Folders" to change or edit the folders that Spin It Again should look for VST plug ins.

More On Cleaning And Audio Effects
Built-In Effect Presets Explained

File Tagging Settings

These settings are used when the software determines how to tag and name the audio files.

Tag Files

If set, the software creates textual tags inside the audio files for artist, album, genre, year and track names.

Store recordings in folder with the artist's name.

The software will automatically create a sub folder based on the artist's name. For example, if your output file folder was C:\My Documents\My Music\ and you had just recorded "George

And The Dog Walkers" latest hit, it would store all audio files in C:\My Documents\My Music\George And The Dog Walkers\

Use ARTIST in song's file name

This will put the artist in each audio file. IE: "**George And The Dog Walkers** - Track X.wma"

Use ALBUM in song's file name

This will put the album in each audio file. IE: "George And The Dog Walkers - **Walkin Ze Dawg Again** - Track X.wma"

Use TRACK NUMBER in song's file name.

This will put the track number in each audio file. IE: "George And The Dog Walkers - Walkin Ze Dawg Again - Track X - **01**.wma"

Troubleshooting

Here are some common problems that may arise.

It's not recording anything.

It's not recognizing the tracks correctly.

The recording sounds like it's under water and warbly.

It doesn't recognize my CD recorder.

It is failing to burn audio CDs.

What is the maximum length Spin It Again can record?

Precisely Split Two Tracks Into One Track

How Do I Import Track information Into Acoustica CD/DVD Label Maker

If your problem still isn't answered, try our [online F.A.Q.](#)

It's not recording anything

1. Make sure that you've hooked up your record or cassette tape player properly. Run the Hookup Wizard!
2. Make sure to set the correct recording source and adjust the level. Run the Recording Level Wizard!
3. Make sure to click the "Record" button and then play back your record or tape.
4. If you are still having problems, try turning off "Pause Recording When Silence Is Detected" in the Miscellaneous area of the settings.
5. If that didn't help, try recording from a different source. Can you record anything at all? See the Recording Level Wizard.

6. Make sure to click the "Open Mixer" button and double check that the correct source is not muted. Double check the recording settings. Click "Properties" from the "Options" menu. Select "Recording" and click "OK". Make sure that the correct source is selected. Normally, the correct source would be "Line In" or "Analog Mix".

It's not recognizing the tracks correctly

After recording, the Preview & Edit Screen comes up and, by default, automatically chops the recording up into multiple tracks, if possible.

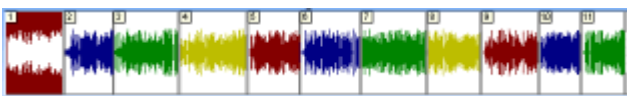
If the tracks are not being recognized properly, it could be a variety of problems.

1) Make sure you are recording with a good level. Weak recordings look more like a horizontal line.

Example of a weak recording level:



Example of a strong recording level:



If you have a recording that looks like the weak recording image, try running the Recording Level Adjustment Wizard to get a better recording level.

2) Try adjusting the auto track analysis parameters.

Click "Analyze" and then change the following parameters to try and better recognize the recording.

Consider It A Track When

The following parameters will help determine if audio is silence, garbage or a track.

The volume is greater than X % - (Music Threshold)

If the volume is greater than X %, we consider it signal/music and not record or tape noise.

Since recordings are not perfectly silent, this is a threshold that can be used to help separate noise from music. (The default is 10%)

It is longer than X minute(s)

If the software detects music signal and not noise (see above) for X minutes, it will consider it a track. This helps eliminate false tracks such as record scratches, tape clicks and so on. (The default is 1/2 minute or 0.50 minutes.)

It is separated by at least X seconds of 'silence'

Music will sometimes have silence in it and if the software considered every silent area it found a new track, it would end up with a lot of false positive tracks. Usually, tracks will be separated with at least two seconds of silence. (The default is 1.75 seconds.) Note that this will consider silence to be anything under the music threshold % above.

3) Type in or look up track information and song lengths.

Some recordings won't have clear gaps between tracks. For example, some albums have songs that fade into each other without a pause. For these recordings, you'll have to enter in track information and times. These times will aid in track recognition.

To enter album and track information or look them up online, click the "Edit Album Info..." button. After entering the information, click the "Analyze" button again followed by clicking "OK".

4) If the tracks are still not being recognized, you'll have to split the tracks up manually.

Click "Clear" button to remove all tracks if the software was completely wrong. (It's easier this way in a few cases.)

Click the "Split" button to split a track into two tracks.

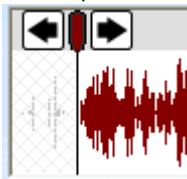
In the bottom track view, use the zoom buttons, the scroll bar and the play back controls to find the track transition. You can then right click and select "Split Track At Cursor" and 2 new tracks will be created.

You can drag and drop track markers. Click near the top of a start or end marker and drag it to a new position.

In this example, the red boxed area shows the noise area we want to get rid of.



Click an arrow or drag the head of the marker to the right to trim out the unwanted record noise, etc.



Use the "Delete" button to remove false positive tracks, ie: record or tape noise or a bad track.

Use the "Create" button to restore a deleted area.

The recording sounds like it's under water and warbly

The most likely culprit is that the Acoustica Noise Reduction is on and has a bad noise print.

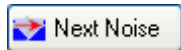
The software uses a noise print to remove or subtract noise from the music. In order to work properly, it needs a good noise print. If the noise print is music and not actual noise, it will sound warbly.

- 1) Stop play back if it's currently playing.
- 2) Click the "Show Noise" button.
- 3) Right click on the noise print and select "Play Noise Print"

The noise print looks like this:



- 4) If you hear music in the noise print, try auto finding the next noise print by clicking the "Next Noise" button



- 5) Now try playing the noise print again by right clicking on the noise print and selecting "Play Noise Print"
- 6) If it is still sounds like it's under water, verify that it is the noise print, by changing the current effect to "<No Effect>". Try playing back the recording and if the under water sound goes away, it is definitely the noise print.
- 7) You can manually set the noise print by dragging it around. Just click on one of the blue triangles and while holding down the mouse, move the mouse left or right. Alternatively, you can right click and select "Set As Noise Print"
- 8) Keep playing with it until you find a noise print that is just noise and does not have music in it.
- 9) If you really need to remove the noise, you may need to record the tape or LP again and, this time, try to record some tape or record noise so that the noise reduction and noise print will work properly!

It doesn't recognize my CD recorder

1. We update our supported CD and DVD recorders several times a year. Please check to make sure that you have the latest version.
2. If you just installed the software and you have WinME, Win98, Win98SE or Win95, you'll

need to restart your computer before some drivers are working properly. Make sure to restart, in this case.

3. Try turning on IMAPI in the Miscellaneous section of the Settings. You will have to restart the software. (This requires Windows XP)
4. Try using the Goldenhawk override which will cause Spin It Again to use a generic CD or DVD burner driver template for your CD or DVD burner. To do this, click "Settings", followed by clicking "Miscellaneous". Click "Goldenhawk Drive Override..." Select the CD or DVD drive that you are interested in and then click the "Use A Generic CD Writer Driver" radio button. Click "OK" and then quit and restart Spin It Again.
5. Alternatively, you can render out the tracks as audio files (MP3*, WAV, OGG or WMA) and then load them into another burning program to burn as audio CDs. While this isn't the most desirable way to do it, it is an option.

* Creating MP3s is not available in some bundled versions of Spin It Again

It is failing to burn audio CDs

There are many CD recorders, computer configurations, blank CD models, and reasons for burn failures. Here are some things for you to try.

1. Do a test burn! Make sure to click "Test Mode" on the CD Burning Settings Screen
2. Shut down all other programs.
3. Reduce your burn speed.
4. Turn off CD-Text on the CD Burning Settings Screen
5. Select "Convert To Wav Files First" on the CD Burning Settings Screen
6. Try a different blank CDR. (Make sure its not damaged, scratched or already used!)
7. Try a different BRAND of blank CDR. (Some CD recorders work better with certain brands. Consult your CD recorder manual.)
8. If you have Windows XP, try switching to IMAPI mode.

To do this, quit Spin It Again. Select "All Programs" from the Window's "Start" button, followed by "Acoustica Spin It Again", followed by "Burning Engine", followed by "Use-IMAPI (XP Only)"

9. Try restarting your computer and trying again.
10. Try reducing the number of tracks, if you are exceeding the length of the CD's capacity.

What is the maximum length Spin It Again can record?

Spin It Again is limited to recording 3.38 hours of audio at CD quality.

However, you can change the sample rate and other factors to get more recording time. (IE: you are recording an 8 hour book on tape.)

Max Time Format

62 minutes 192,000 hz, 24 bit, stereo

124 minutes 96,000 hz, 24 bit, stereo

6.76 hours 44,100 hz, 16 bit, stereo

13.52 hours 22,050 hz, 16 bit, stereo

54.1 hours 11,025 hz, 8 bit, stereo

You can change the recording format in the settings, by clicking "Settings". Click on the "Recording" page and change the settings to the appropriate values.

Precisely Split Two Tracks

You probably know that you can use the 'Split' button to split a track down the center into two tracks. But did you know that you can precisely select the split point for the two tracks?

Here's how:

On either the top multi-track waveform display or the bottom single-track display, find the spot where you would like to split the track into two tracks. Then, right click on that spot. A pop-up menu will appear. Select 'Split Track at Cursor,' and the track will be split into two at the exact spot where you clicked!

Note that the track is split at the mouse cursor, not the playback cursor.

If you are not pleased with the split point, simply press the 'Merge' button and the tracks will be recombined.

Using this tool, it is possible to very accurately split up tracks. It is especially useful for live music albums (or any album where one song fades directly into the next song) for which the auto track detection fails.

For more help, see the Tutorial on Splitting.

[Online Animated Tutorials](#)

How Do I Import Track information Into Acoustica CD/DVD Label Maker

You'll need to run the label maker from Spin It Again. There are a few ways to do it.

1. If you your CD burner supports reading and writing of CD-Text, you can use the label maker to read the CD directly.
2. If you are still running Spin It Again, make sure to enter in the correct track info on the title "Name Your Recording!" and then click "Next". Click "Print a CD Label..." and it will launch the Acoustica CD/DVD Label Maker with your track information.
3. If you have already made a recording and did not let the software delete the recording, you have an option of reloading it.
 - A. Run Spin It Again
 - B. Click "Load A Sound File"
 - C. Find "My Documents"
 - D. You'll find "My Recordings" under "My Documents"
 - E. Locate the recording that you are interested in creating a label for.
 - F. On the "Preview & Edit" screen, click "Next"
 - G. On the "Name Your Recording!" screen, make sure that the track information is there, otherwise, type it in. Click "Next"
 - H. Click "Print a CD Label..." and it will launch the Acoustica CD/DVD Label Maker with your track information.

Cleaning And Audio Effects

Spin It Again comes with built in Acoustica effects and 14 presets to help clean and process your recordings.

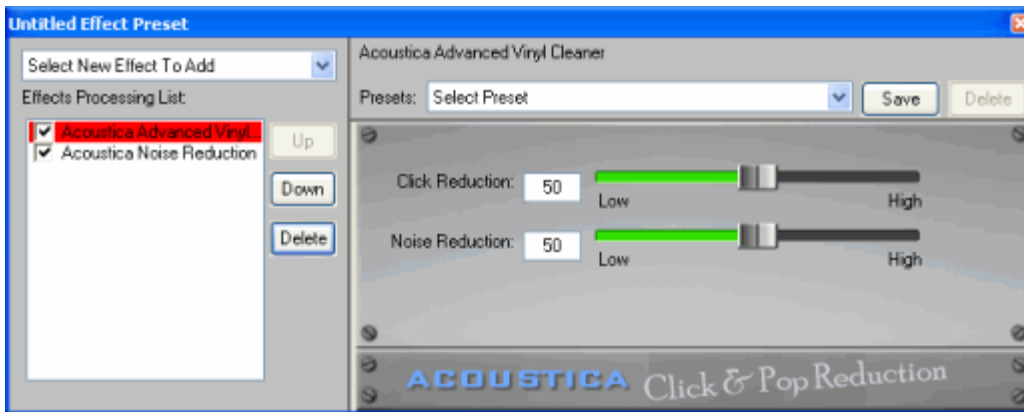
To create a new meta effect preset, click "<Create New Effect>" from the "Cleaning And Effect Preset" drop down on the Preview And Edit Screen.

When you are starting off with a brand new effect, you will see a screen like this:



Select an effect from the drop down title "Select New Effect To Add"

In this case, we will select "Acoustica Advanced Vinyl Cleaner" and then "Acoustica Noise Reduction"



We now have two effects loaded. To adjust the parameters for either effect, click on the effect title on the left hand side and then adjust the parameters to the right.

The list of effects that you choose is also called an "effect chain" because the audio will pass through each effect starting at the top effect going to the bottom effect. In the above case, the raw recording will first go through "Acoustica Advanced Vinyl Cleaner" and then "Acoustica Noise Reduction".

When you are done, click the [x] on the top right hand side of the window. It will ask you if you want to save it and give it a name. You can always edit it again later.

You can reorder the effects by drag and drop or by selecting it and then clicking "Up" or "Down".

If you do not want an effect, select it and click "Delete"

Useful Acoustica Effects

- **Click And Pop Reduction** - Reduces and muffles clicks and pops.
- **Noise Reduction** - Cancels out noise such as tape hum and hiss. You'll need to have a noise print set to hear this. For more help see Reduce Tape Noise Hiss or Hum
- **EQ** - A 10 band equalizer to adjust different frequency ranges.
- **Compressor** - Great for bringing a quiet recording up in volume. It can work wonders for older recordings.
- **Reverb** - Simulate a great concert hall

DirectX Effects

If you have any third party DirectX effects installed, you will be able to load them as well. (Please note that you must have "Load DirectX Effects" checked in the Miscellaneous Settings)

VST Effects

If you have any third party VST effects installed, you will be able to load them as well. (Please note that you must have "Load VST Effects" checked in the Miscellaneous Settings)

LP

An LP stands for 'long play' and is a term for a record that is played on a record player. The standard speeds are 33 rpm, 45 rpm and 78 rpm.

Audio Files

MP3, WMA, OGG or WAV files

Buffer Under-Run Protection

This is an option that most newer cd recorders have. If the CD recorder does not get data fast enough, it won't fail and it will pause the burn until it gets more data.

Burn Proof

Burn Proof, Just-Link is another name for Buffer Under-run Protection.

Burning Engine

Spin It Again uses two burning engines. Goldenhawk is the default. If the software does not recognize your CD recorder by default, it will try Windows XP IMAPI (XP Only)

MB

MB = Megabyte or roughly 1 million bytes. A typical hard drive has 4,000 MB when its completely empty. A typical MP3 file is about 4 MB.