

## **Thom Cadley - Surround Music Demo - 2003**

### **Title & Chapter Listing**

#### **Title One – The Songs**

- 1.) Shawn Colvin - Sunny Came Home
- 2.) Luther Vandross - Dance With My Father
  - 3.) Alicia Keys - Lovin' You
  - 4.) Beyonce - Crazy In Love
  - 5.) Billy Joel - The Longest Time
- 6.) Stevie Ray Vaughn - Couldn't Stand The Weather
  - 7.) Kelly Rowland - Stole
  - 8.) Shakira - Whenever, Wherever
  - 9.) Vivian Green - Affected
- 10.) Destiny's Child - Story Of Beauty
- 11.) Alicia Keys - Girlfriend
- 12.) Rod Stewart - It Had To Be You
- 13.) Billy Joel - Sometimes A Fantasy
  - 14.) Incubus - Warning
  - 15.) Korn - Freak On A Leash
  - 16.) Mudvayne - Not Falling
- 17.) David Bowie - The Pretty Things Have Gone To Hell

#### **Title Two – Speaker Set-Up / Pink Noise**

- 1.) Left
- 2.) Right
- 3.) Center
- 4.) Left Surround
- 5.) Right Surround
- 6.) Subwoofer / LFE

#### **Title Three – Electronics Test Tones**

- 1.) 1 KHz – L, C, R, LS, RS / 40 Hz – LFE

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5.1 Music In Dolby Digital Surround Sound



Pink Noise For Speaker Calibration



Test Tones For Electronics Calibration



Details & Suggestions On Optimizing  
Your Surround Sound System For Music



### Playing This Disc

Hopefully you already have a fully set-up 5.1 surround sound system. If you do, then all you need to do is push play after this disc has loaded. The disc will play the 5.1 Dolby Digital Surround Sound Mix of the songs. To compare this to the stereo version, just press the “Audio” button on your remote. To switch back, just press the “Audio” button again. It’s that simple!!! (Note that not all discs work this way; this being a function of how the disc is made).

### Getting The Most From Your Surround Sound System For Music

Here are some suggestions on how to set some of the controls on your system. Don’t be intimidated by all this, as it’s easier to do than it looks on paper and is generally a one-time process. Though once you get into it, you’ll probably play around with it!!! (Note that all of the following assumes that you have 5 speakers and a subwoofer. If you don’t, you may need to set up your system differently. I will not be going into that, as it then becomes very system specific).

- 1.) **Very Important!!!** Make sure that “Dynamic Range Control” is turned off. This may also be called “DRC”, “Steady Sound”, “Compress”, “Night Mode” or something along those lines. This setting is intended only for making dialog louder than effects in movies by putting a rather heavy compressor on the audio. This will make the music sound bad, (much like an over compressed radio or TV broadcast).
- 2.) **Very Important!!!** Make sure that there is no additional signal processing turned on. This might have a name like “Hall”, “Cinema”, “Game”, “Movie” or such. These settings add reverb or delay to the sound, or redirect sound from the front to the rear. These settings are generally there for creating fake surround from a stereo or mono source.

Realize that different surround systems have different controls, (just as some stereo systems give you an equalizer, while some only give you bass & treble controls), some of which you may not have. If your system doesn’t have a control mentioned, don’t worry about it. You can’t do anything about it anyway!

### How To Optimize Your System Using This Disc

In the event that your system has never been setup and calibrated, (or something just doesn’t sound right!), I have included audio calibration signals you can use to optimize your system. To accurately calibrate your speakers you will need to have what is called an SPL meter. You can get one from Radio Shack for about \$30. (Or borrow one from one of your Hi-Fi geek friends!!!). This, along with the provided pink noise, will allow you to make sure all of your speakers are set correctly. Just follow these directions.

- 1.) Your system may have speaker height and distance settings. If so, set them according to their distance from the meter and if they are above head level or not. There may also be settings for whether the surround speakers are behind or to the side of you and for the size of the speakers. Set these accordingly as well.
- 2.) Navigate through this disc’s menus to the Speaker Calibration / Pink Noise page. At a moderately low volume, play the pink noise. You should hear only one speaker at a time. Make sure only the correct speaker is being heard. If not, check your speaker connections & cabling.
- 3.) Set the controls on the SPL meter to “Slow Response” & “C Weighting” with the range set to 80. Place or hold it, facing straight up, at your main listening position around head level. (Note that during the following, the needle on your SPL meter may not stay perfectly still. This is normal; just get it as close & steady as you can.)
- 4.) It gets a little loud here, but stay with it!!! Play the “Left” pink noise again, this time turn the volume up, so that the needle on the meter goes to zero, (80 db on a digital meter). Let the noise continue to play the “Right” noise. This should also read the same. If not, adjust the Left/Right Balance control on your amplifier.
- 5.) Continue playing the “Center”, “Left Surround” & “Right Surround” pink noise. Adjust the individual amplifier level control for each of these so that they also read the same as the “Left” speaker, (needle on meter @ zero; 80 db on a digital meter).
- 6.) Now play the “Subwoofer” pink noise. Adjust the subwoofer (may also be called “LFE”) control so that the needle goes to +4, (84 db on a digital meter).
- 7.) Once you are done, go back and double check that everything still reads correctly.

**That’s it; your system is now calibrated!!! Sit back and enjoy the music!!!**