

## DVD-9000/3800 Audio Setup Tips

The following setup guidelines are recommended for the DVD-9000/3800 players to work to its fullest potential in the playback of DVD-Audio as well as DVD-Video material (if you are using the internal DD and dts decoders). These settings do not affect signals going to the digital outputs.

Setup of the players is relatively straight forward, except for DVD-Audio, where you **must** setup the Bass Management, **adjust** Delay Time and **calibrate** Channel levels. You only need to do the Audio Setup once, as it is a global setup for all the formats. The Pure Direct feature must also be setup to provide for proper playback of DVD-Audio material.

- ACCESSING THE 'SETUP' FUNCTION OF THE PLAYER, TOGGLE TO THE 'AUDIO SETUP' SCREEN (PAGE 4 OF 6). TOGGLE DOWN TO 'AUDIO CHANNEL' AND HIGHLIGHT 'MULTI CHANNEL', PRESS 'ENTER'.
  - You will be shown a screen display labeled 'Speaker Configuration', where you will configure the unit to your speakers. Select 'Large', 'Small' or 'None' depending on your particular speaker configuration. Selecting 'Small' engages the 80Hz hi/low pass crossover. Note that selecting 'Large' for the Front Channels will allow you to select 'Large' for the other speakers in your system. We recommend setting all speakers to 'Small' unless you are using speakers that have built-in subwoofers, and they are connected to your receiver/amplifier by only speaker wire.
- ALSO ON THIS SCREEN, YOU WILL ALSO BE ABLE TO ADJUST A SPECIAL 'FILTER' FEATURE WHICH IS FOR DISCS FROM CHESKY AND OTHERS RECORDED IN 6.0, NOT 5.1. THE FACTORY DEFAULT SETTING IS 'ON'.
  - Toggle 'Off' depending on the apparent lack of bass response when playing certain discs, and also if you have no Analog External Subwoofer in/output control on your Receiver/Pre-pro. This will increase the SW output 5dB for DVDs – please note that in the 'Off position, all speakers are automatically set to Large with Subwoofer 'Yes'.
- NEXT, USE THE 'RETURN' KEY TO GET BACK TO THE 'SPEAKER CONFIGURATION' MENU. TOGGLE PAST 'CHANNEL LEVEL' (WE WILL COME BACK TO THIS IN A BIT), DOWN TO 'DELAY TIME' AND PRESS 'ENTER'.
  - You are now shown a screen where you are to tell the player how far away you are (in your favorite listening position) from each speaker in your system. We recommend using a tape measure for this, and round up to the next number in whole feet, for example if you are 14'  $\frac{3}{4}$ " away, then tell the player for that speaker is 15 feet. Once you have done all the speakers in your system, press the 'Return' key.
- NOW TOGGLE TO THE 'CHANNEL LEVEL' BUTTON, AND PRESS 'ENTER'

- For these adjustments we highly recommend you use an SPL (Sound Pressure Level) meter, Radio Shack makes a excellent *analog* one for about \$35. This exercise is similar to setting up the surround processor, with a twist. Since you are using test tones generated inside the players, and not the processor, **it is crucial that you first have your Receiver/Pre-pro calibrated.** This is because the better processors automatically raise their volume controls when doing test tone calibration, and once you have completed the processor's calibration you now have a test tone reference point for the DVD player.
- Using the display, or indicator on the volume control, mark down the reference point volume of your processor when it is outputting its internal test tones, and set the volume to that point before calibrating the player.
- We suggest setting the 'Test Tone' to manual as this setting allows you to control the tempo of calibration, not the player. It is also easier on the nerves. Go through each channel, so they calibrate to, or as close to, 75dB on the meter. The test tone outputs on the player may not be enough to get to true 75dB (depending on the External Inputs output settings – see below), so get close, but make sure all the channels measure to the same point.
- **Many receivers/pre-pros have individual channel input and/or output level controls on their External Inputs, these may need to be adjusted to obtain proper calibration. Please check out the product's Owners Manual for assistance. All DENON AVRs have independent output level controls for the External Analog Inputs, while the 28/38/5803 models also have a Subwoofer Input Level control adjustment.**
- **If your particular product does not have level controls, DENON recommends to set the 5 Main Channel levels to their lowest output setting and leave the Subwoofer at 0dB (highest output setting) in the player before starting the calibration process.**
- YOU MUST THEN SETUP THE 'PURE DIRECT MODES' ON THE 9000/3800. THIS IS DONE BY DEPRESSING THE BUTTON ON THE REMOTE LABELED 'PURE DIRECT MEMORY'; YOU WILL SEE THE ON-SCREEN DISPLAY FOR THIS FUNCTION. IN 'PDM' YOU CAN DETERMINE WHICH CIRCUITRY TO LEAVE 'ON' OR TURN 'OFF', LIKE DIGITAL OUTPUT, VIDEO OUTPUT AND THE FRONT DISPLAY.
  - With Mode 1, we recommend to leave 'On' the digital and video circuits, the display is your choice. The 'Pure Direct Mode 1' would be selected for DVD-Video/CD/CD-R/RW/MP-3 playback, by the knob on the front panel of the 9000/3800. If you decide not to make any adjustments here, you can take the following tips for 'Mode 2' and set them for 'Mode 1'. Then for playback of the above listed disc types, you would leave the 'Pure Direct Mode' switch in the 'Off' position.
  - With 'PD Mode 2' (or '1'), the only setting you must change is the 'Digital' option. Change from 'On' to 'Off', the others are user preference. 'Pure Direct Mode 2 (or '1')' would be selected for DVD-Audio and/or DVD-Video 24/96 Music playback (Chesky or Classic DADs). Users would adjust the 'Pure Direct Mode' knob upon changing of the different disc format type.
  - **If you do not setup the 'Pure Direct Modes' and leave the selector in the 'Off' position, DVD-V/CD/CD-R/RW/MP-3 discs will play fine, however DVD-Audio discs (copy protected or not) may not play the Hi-Resolution Multi-Channel format.**

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