

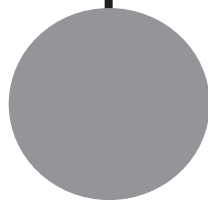
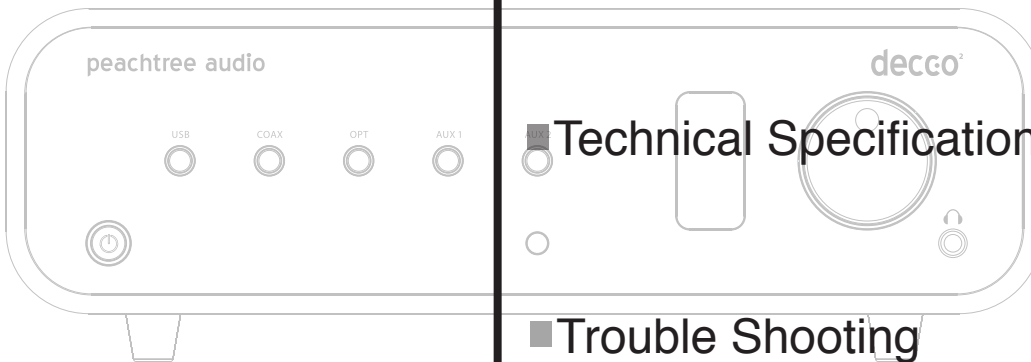
peachtree audio



decco²

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Introduction

Thank you for purchasing the Peachtree Audio decco2 amplifier.

While Peachtree Audio is a new company, the people behind the design and marketing of this fine product have been in the Consumer Electronics business over 30 years. The decco2 will process a host of digital audio sources from the Slim Devices Squeezebox, to the Sonos ZP90, and many more including the digital output of your CD player. The design of the decco2 is an attempt to marry audiophile level amplification with the unique capabilities of external Digital to Analog converters. The ability to process and play compressed and uncompressed music files that have been downloaded to hard drives makes the decco2 a unique product. The fact that it vastly improves upon the performance of most computer-audio systems is a big plus; and our original goal.

This manual is your guide to the functions and connections associated with the decco2. It's ability to mate with a large number of digital audio sources makes the decco2 a unique product.

We sincerely hope that the decco2 provides you with years of trouble-free music listening, and that you will use it often. We will try to keep updates on our website: SignalPathint.com. You may also want to contact your dealer should you have any questions. While you're thinking about it, please go to Peachtreeaudio.com and register your decco2 for peace of mind.

Thanks again, and Happy Listening!
The Guys at Signal Path

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Important Safety Instructions



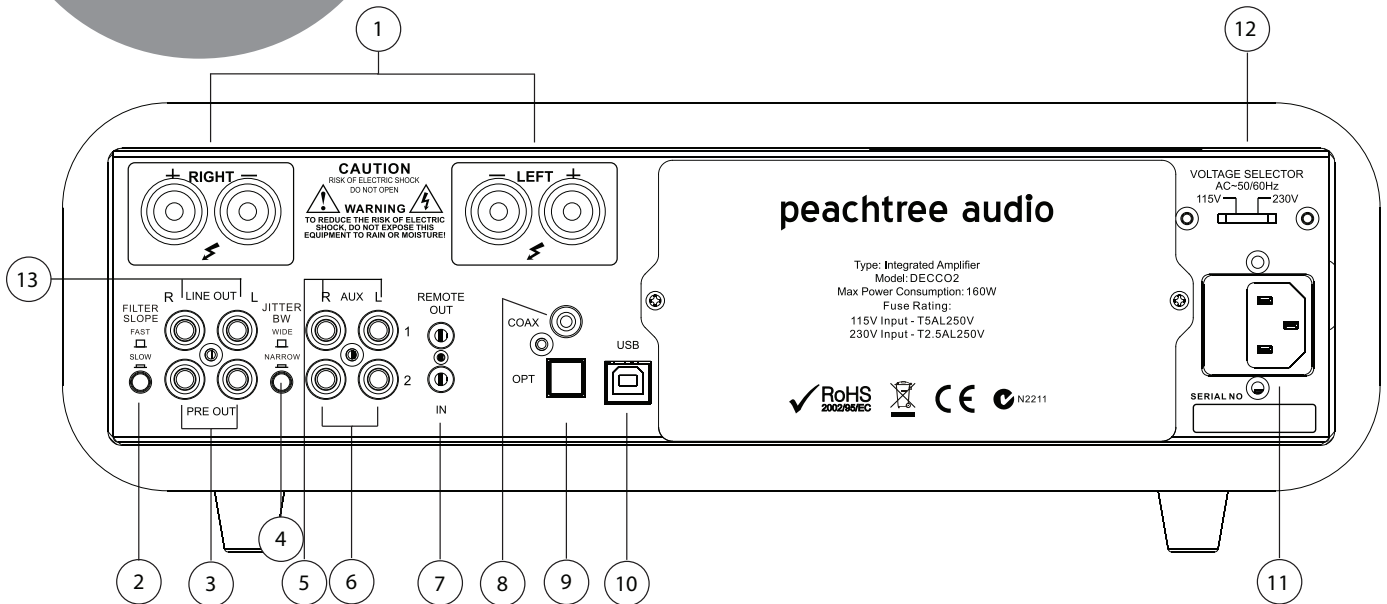
- 1) Read these instructions – All the safety and operating instructions should be read before this product is operated.
- 2) Keep these instructions – The safety and operating instructions should be retained for future reference.
- 3) Heed all warnings – All warnings on the appliance and in the operating instructions should be adhered to.
- 4) Do not use this apparatus near water – The appliance should not be used near water or moisture – for example, in a wet basement or near a swimming pool, and the like.
- 5) Clean only with dry cloth.
- 6) Do not block any ventilation openings. Install in accordance with the manufacture’s instructions.
- 7) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 8) Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 9) Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
- 10) Only use attachments/accessories specified by the manufacturer.
- 11) Unplug the apparatus during lightning storms or when unused for long periods of time.
- 12) Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 13) Please keep the unit in a good ventilation environment.
- 14) **CAUTION:** These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
- 15) **WARNING:**To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall not be placed on apparatus.
- 16) **18. WARNING:** The mains plug/appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.
- 17) - This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.
 - Warning: To reduce the risk of electric shock, do not remove cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.
 - The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.
- 18) Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.
- 19) **WARNING:**For the terminals marked with symbol of “ ” may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the used of ready-made leads or cords according to manufacturer’s instruction.

Unpacking and Warranty

- 1) Keep all packing materials for future shipments. (service)
- 2) Keep a record of your bill of sale and a copy of the serial number for warranty and insurance purposes.
- 3) You may register your unit on the Signal Path website. www.signalpathint.co

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Back Panel Connections



1) Speaker terminal

2) **Digital filter slope:** user selectable DAC filter allows for a sharp slope which measures better and a soft slope that is preferred by many audiophiles.

3) **Preamp output:** to connect the decco2 to an external amplifier or to a subwoofer with RCA interconnects. The decco2 amplifier is still active when the preamp output is used.

4) **Jitter adjustment:** This button will optimize your SPDIF (coax and Opt) connections to the DAC relative to the digital source device. If you have a low jitter source it will sound best when you have the button pushed in the narrow position. If you have a heavily jittered signal then you may hear nothing in the "narrow" setting. Set the button out to the "wide" position and your signal should stream to the DAC with the desired results.

5) **Aux 1:** for analog line level sources.

6) **Aux 2:** for analog line level sources.

7) 3.5mm IR Remote input and output

8) **Coaxial Digital input:** for coaxial digital sources.

9) **Optical Digital input:** for optical digital sources.

10) **USB Digital input:** to connect directly to your computer via a USB cable.

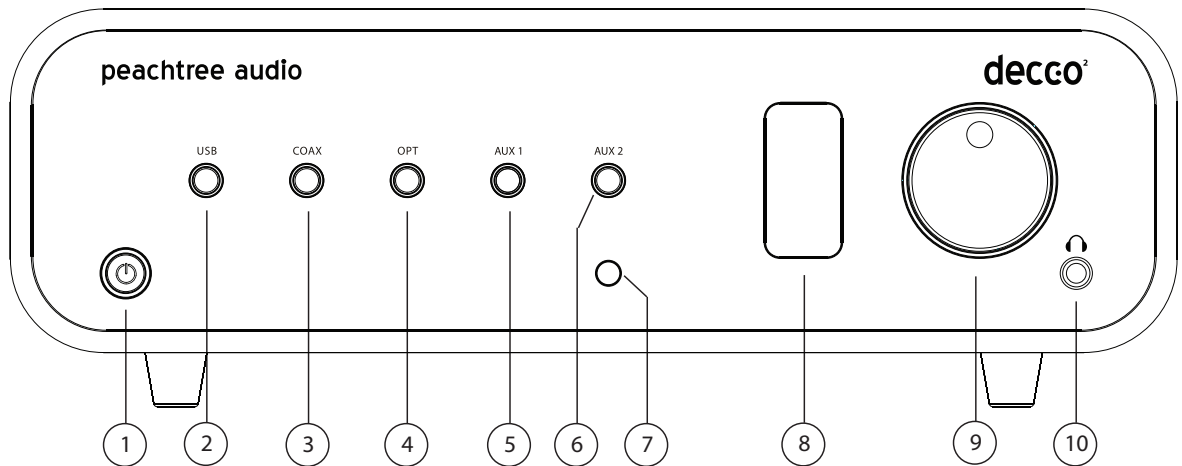
11) **AC power cord attachment & Fuse:** The three prong power cord is included in the decco2 box. Fuse is user replaceable after turning the decco2 off. You may call your dealer or Signal Path's service department with any questions regarding fuse replacement. ****warning**** using the wrong value fuse may cause damage to the decco2 and is a potential safety fire hazard.

12) **Voltage switching:** For international use. Unplug the decco2 before you make the switch and be sure to use the proper fuse for the voltage chosen. ****warning**** Improper voltage setting may cause damage to the decco2.

13) Line (fixed) output

*The lighted rings around the digital input buttons will blink until the digital signal is locked on the DAC

Front Panel



- 1) **Power/Standby**
- 2) **Digital USB input:** For computer audio sources
- 3) **Digital Coax input:** connects to the pcm coaxial digital outputs of CD players, dvd players, Wadia iTransports, Sonos Zone Players, Squeezebox, and many more digital audio sources.
- 4) **Optical Digital Input:** connects to the optical digital outputs (Toslink) of CD players, dvd players, Sonos Zone Players, Squeezebox, Apple TV, Apple Airport, and many more digital audio sources.
- 5) **Aux1:** For analog devices like CD players or FM tuners. If you want to connect a turntable to this input you must use a Phono Preamp.
- 6) **Aux2:** For analog devices like CD players or FM tuners. If you want to connect a turntable to this input you must use a Phono Preamp.
- 7) **Infrared remote sensor:** Aim your remote control at this sensor for the best results.
- 8) **Tube (valve) window:** Blue LED activates when the tube is on. You are bypassing the tube in the circuit when it is off.
- 9) **Volume control**
- 10) **Headphone input:** This is the standard headphone jack for High Quality headphones. You will need an adaptor for 3.5mm mini jacks which are the standard headphone jack for MP3 players.

Remote Control

The decco2 remote control is straightforward, easy to use, and designed for simplification. We suggest that after you manually turn the decco2 “on”, that standby be your default position when the decco2 is not in use. It will not damage the unit or wear the parts out more quickly than being completely “off”.



- 1) **Mute:** This button will mute the decco2.
- 2) **On/Standby**
- 3) **Opt:** This button selects a digital audio source at the Optical (or Toslink) connection.
- 4) **Coax:** This button selects a digital audio source at the Co-axial digital connection.
- 5) **USB:** This button selects a digital audio source at the USB connection.
- 6) **Tube:** This button allows the user to choose either solid state or tube-hybrid operation of the decco2’s preamp stage. The blue LED will turn on when the tube is activated.
- 7) **Aux 2:** This button selects an analog audio source at the Aux connection.
- 8) **Aux 1:** This button selects an analog audio source at the Aux connection.
- 9) **Volume - / Volume +:** These buttons reduce and increase volume level

Amp

ST mos-fet amp modules

40w/ch at less than 1% distortion in to 6 ohms

Internally wired like Sigma Servo control (two wires from amp to terminal) for better damping

PreAmp

Hybrid tube design (6N1P)

6.5V output @ 2.0V input

<30 Ohms at the output stage

Class A output stage

Switching relays in the signal path

Polypropylene caps in the signal path

Headphone Amp (shared with the Pre-Out stage)

Suitable for all electro-dynamic headphones

Frequency response: DC ~ 100 kHz +/- 0.1dB

Voltage gain: 10dB

Maximum output voltage: 7Vrms

output impedance: <30ohms

Maximum output power: 100mW into 8Ohm / 300mW into 150Ohm / 150mW into 300Ohm

Class A output stage

6N1P Tube is in circuit

DAC

3 digital inputs: USB, coax, optical

24/96 upsampling ESS9006 DAC

11 regulated power supplies

Organic capacitors

Class A output stage

Transformer coupled digital Inputs for ground isolation

Galvanically isolated USB stage.

>122db S/N

<1picosecond jitter measured at the Master Clock (Super Clock)

Size 5" H x 14 ¾" W x 14" D (including volume knob and speaker terminals)

Weight 25.5lbs.

Trouble Shooting

| | |
|--|--|
| The Decco2 will not turn on | Make sure the on/off switch on the front panel is engaged. Check to be sure the AC plug is connected. Check the fuse. |
| The Decco2 unit turns on but there is no sound | Be sure you have the proper input selected. Make certain the mute isn't engaged. Determine if your source is on. If the input button is blinking then your digital signal is not locked. Check your cable for connections and your source to be sure it is on and playing. |
| The remote control doesn't work | Please check the batteries by removing the cover on the back of the remote. It is an infrared remote so it needs a clear line of sight to the sensor on the front panel of the Decco2. |
| You intermittently lose your signal on the USB input | The first thing to try is rebooting the music server program (iTunes, Foobar, WMP, etc) and see if that works. Then try turning the Decco2 off, then re-boot your computer. Then turn the Decco2 back on. If the computer still doesn't recognize the USB DAC repeat the process and also unplug the USB cable from the computer and the Decco2, then plug it back in right before re-booting. These are computer devices, and sometimes you'll lose a signal just like your printer or any other USB device. You should not have this problem often. We designed the Decco2 to remain locked on the USB signal at all times, but sometimes you can still get a signal dropout. |
| You pick up hum and noise through your Decco2 in your office system | This can require some trial and error diagnostics. If you have music files stored on a laptop computer, hook it up to the Decco2 and a pair of speakers using battery power. If it works properly with no noise then your computer in your office is introducing a ground loop in to the system. This is not uncommon; but the Decco2 has transformer coupled digital inputs to minimize this problem. If problems persist, please feel free to contact Signal Path. |
| When you switch from one source to another you get a loud "click" or "pop" | Sometimes this is from static buildup but it should not occur consistently over a long period of time. Contact your dealer or Signal Path if this persists. |
| Your Coaxial Digital connections do not sound quite right | You must use a wide bandwidth 75 ohm digital interconnect in this application. If you use a standard audio RCA cable the results will not be nearly as good. This is not an unusual mistake as the two interconnects look identical but sound different. |
| Your iPod doesn't sound quite right through the Decco2 | Your iPod offers custom equalizations for headphone use that aren't necessary with the Decco2 and a good pair of speakers. Use a "flat" response and be sure the iPod volume is set to match the other components in your system. If you find that you still need equalization, then start at "flat" and make your settings from that point. |

Warranty, Contact, and Support Information

International Guarantee

The Decco2 has a 1 year Parts and Labor guarantee from the time of purchase. Tubes are covered for 6 months. Units that are covered under this guarantee include Decco2s purchased from any authorized Decco2 distributor or dealer.

Signal Path can take no responsibility for defects arising from accident, misuse, abuse, wear and tear, neglect or through unauthorized adjustment and/or repair. We also cannot accept responsibility for damage or loss occurring during transit to or from the person claiming under the guarantee. The warranty does not cover shipping costs.

Claims Under Warranty:

The equipment should be packed in its original packing and returned to the dealer from whom it was purchased, or if unavailable, directly to the Decco2 distributor.

You should use a reputable carrier....Do Not Send By Postal Service. . Signal Path cannot accept responsibility for the Decco2 while in transit to the dealer, distributor, or service facility. Please insure the unit against loss or damage while in transit.

In the unlikely event that you experience a failure with your Decco2, please call for return authorization number before returning products for service. Any Decco2 received without an RA # will be refused. You may also wish to route your repair through your dealer, which we encourage.

Call 704-391-9337 for a return authorization number.

Main office (not service)

Signal Path International
2045 120th Avenue NE
Bellevue, WA 98005

Website: www.signalpathint.com

S I G N A L  P A T H

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Useful Tips

- A blue LED mounted under the tube turns on when the tube is activated

At Peachtree Audio we think that products should be easy to use. Therefore, we don't require any custom USB drivers or software programs in order to listen to your music from your computer. The Decco2's USB audio input is used to take music files from your computer's hard drive and play them back with superb fidelity.

While some of the wording and steps vary somewhat between MACs and PCs, the basic instructions are very similar.

USB Connections

PC

- 1) Connect the USB terminal on the Decco2 to a USB connection on your computer.
- 2) Your computer will "see" the USB Audio DAC inside the Decco2. You may get a "USB AUDIO DAC" pop-up box but it's not necessary.
- 3) Right click the speaker icon on the bottom of your screen
- 4) Select "Audio" tab
- 5) Using the drop-down box choose USB AUDIO DAC
- 6) Click OK
- 7) Launch Music Program and play

Mac

- 1) Later Mac setup may vary but the basic instructions are outlined below
- 2) Click on to System preferences
- 3) Click on to the speaker icon
- 4) Under the sounds tab you should see a window that offers USB Audio DAC (and your soundcard) Click on to USB Audio DAC
- 5) Launch Music program and enjoy your music

Once you do this setup your computer should recognize the USB Audio DAC and default to it when plugged in. If you unplug the USB connections and reboot your music before re-connecting first, you may find that you have to go back through steps 3-7, This is not unusual.

Other Helpful Tips

- 1) Always set your computer and Music program volume control to maximum and use the decco2 volume as a master control. It sounds better that way.
- 2) Avoid keeping multiple programs open while streaming music. It can compromise the sound quality and even cause signal dropouts.
- 3) Avoid plugging and unplugging the USB input multiple times in a short time span. It usually is not a problem but increases the chance of a voltage spike to the USB input.
- 4) Give the decco2 adequate ventilation as it will get fairly warm.
- 5) The blue lighted ring around the digital inputs of the decco2 have a diagnostic built in. If the digital signal is not locked on the DAC it will continue to blink. Check your connections and be sure your source is turned on and playing. If it still blinks with no sound feel free to call us at the number below.

As we develop more computer-audio products and gain more knowledge we'll post helpful tips on our website:

Signalpathint.com
704-391-9337



Interested in the Green Movement?

- 1) The decco2 meets the European RoHS standards for non-hazardous metals
- 2) The veneers in the decco2 cabinet come from sustainable forests with the FSC certification
- 3) The decco2 utilizes a standby transformer that draws less than a watt in the US and less than 2 watts in countries with 220V electrical service
- 4) We will continue to investigate more ways of making our products environmentally friendly as we develop Peachtree Audio into a full line. Feel free to e-mail us with your suggestions.

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Connections

- **Co Axial Digital Inputs:** From the Back panel connect the input with a digital coaxial cable (7 or 10 on the “Back Panel” page) to the coax output from any coaxial digital source.(CD and DVD players, Sonos modules, Squeezebox modules, cable box, etc..etc..) Select the corresponding input in the front of the decco2.

- **Optical Digital Inputs (sometimes called Toslink):** From Back panel connect the input with an optical cable (8 or 9 on the “Back Panel” page) to the optical output from any optical digital source (CD and DVD players, Sonos modules, Squeezebox modules, cable box, Apple Airport, Apple TV) Select the corresponding input on the front of the decco2.

- **USB Input for Computer:** While both the decco2 and your computer are “On”, connect a USB cable from your PC to the back of the decco2 (# 6 on the “Back Panel” page). On the bottom right corner of your computer screen, you’ll see a speaker icon. RIGHT CLICK this icon and select “Adjust Audio Properties”. Follow the “Volume” tab. Next to the speaker icon in the volume tab, use the drop-down tab and select USB Audio DAC. You are now ready to launch and play your favorite music server program like iTunes or Windows MediaPlayer, although there are many more to choose from. Be sure you have the USB input selected on your decco2. Also be sure you make the USB connection before launching the music server program.

- **USB for Mac:** While both your Mac and decco2 are in the “On” position, connect a USB cable from your Mac to the USB input on the back of the decco2 (# 6 on the “Back Panel” page)..In the “Systems Preferences” choose the speaker icon. When the next box appears, switch from “Internal Speaker” to “USB Audio Device”. You are now ready to launch and play your favorite music server program like iTunes although there are many more to chose from. Be sure you have the USB input selected on your decco2. Also be sure you make the USB connection before launching the music server program.

- **Analog Connections:** The analog hook ups are for using conventional components like Tuners, Tape Decks, SACD players, etc. If you plan to use a turntable, you’ll need an external phono preamp to match your cartridge output. Consult your dealer for recommendations.

- **Speaker Output:** The decco2 is designed to drive one pair of speakers between 4 and 8 ohms. It is not advisable to use more than one pair of speakers with the decco2.

- **Pre Out:** The Pre out can be used for several operations:

Subwoofer output:

Run a stereo pair of RCA cables from the pre-out (#14 on the “Back Panel” page) to the subwoofer line-in. If your subwoofer has only one line-in, you can use a single RCA connection from either channel. Almost all music information below 100HZ is mixed in mono so it will not make a sonic difference. This single line RCA type plug will then be connected to the single input on your subwoofer.

External Amplifier: Connect the Stereo RCA cable from the pre output of the decco2 to the stereo RCA inputs on your external amplifier. Connect the speaker wires to the speakers. Turn on the decco2 and then the external amplifier. At this point, you’ll be using the decco2 as a Digital and Analog Preamp.

External Amplifier and Powered subwoofer: You will need to split the L/R outputs to two L/R outputs. To do this, you’ll need to purchase 2-Y-Adapters (Single Male to Two Female). Plug the Y Adapters into the pre-out of the decco2. You now have two outputs for each channel. Connect 1 set of L/R RCA type connectors to the external amp and the other two outputs to your subwoofer.

- **Using decco2 as an external DAC:** Connect the “Fixed” line out from the decco2 to an Aux input of your receiver or preamp.

Connect any digital input to the decco2 as described above. Select the connected digital input on the decco2, then select the input on your Preamp/Receiver that is connected to the decco2’s line output.

WARNING: DO NOT CONNECT THE decco2 “FIXED” LINE TO A PHONO INPUT. THIS WILL OVERDRIVE YOUR PREAMP AND YOU MAY DAMAGE YOUR PREAMP/RECEIVER AND OR SPEAKERS.

The USB connections are repeated in the Useful Tips pages

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