

The concept of our servo-bass system is an easy one to understand. It employs an accelerometer as a sensor to constantly monitor the movement of the woofer cone and continuously compares it to the input signal. This comparison circuit identifies any deviation from the input signal and applies a corrective signal to compensate; resulting in the virtual elimination of the inherent distortion of the woofer.

In the Genesis products with an external amplifier, the servo-bass amplifier is driven by line-level input from the preamplifier. This means that while the midrange and tweeters of the speaker is driven by the power amplifier in use, the servo-bass amplifier is driven by the preamplifier.

This scheme of connection, while it works, may not be ideal. The power amplifier is never a “straight wire with gain” and will affect the musical signal in an unpredictable way. The servo-system will correctly produce the bass part of the musical signal that is the input of the power amplifier, instead of the actual output to the speaker.

Most, if not all, power amplifiers will have capacitors and/or output transformers in the signal path. A capacitor or transformer will shift the phase of the music signal. Hence, the input and output of the power amplifier will not be in absolute phase. While this can be compensated for by the phase adjustment on the servo-bass amplifier, the compensation cannot be perfect.

You hear this as a loss of coherency between the bass and the midrange. Sometimes, users call it a “loss of speed” or “slow bass”. In cases where the power amplifier is phase-inverting (like some tube amps), the bass can be up to 180 degrees or more out of phase.

And, if you have an integrated amplifier, the bass amp cannot be hooked up. While you would not use a cheap integrated amplifier with our high-end



speaker systems, lately there have been some very good high-end integrated amplifiers being sold.

The Genesis Servo-bass Jumper Cable is designed to address all of these issues – it allows the balanced line-level input of the Genesis external servo-bass amplifier to be driven by the high-level output of your power amp – hence using the same signal that is driving the rest of the loudspeaker for an exceptional increase in transparency and bass coherence.

Genesis Servo/Bass Interconnect Cables

Applicable Models:	Genesis Servo-Bass External Amplifiers G I, G1.1, G II, GII.5, G200, G201, G300, G350, G350SE, G V, G VI
Termination (input)	Kimber™ Spades or optional Banana Plugs
Termination (output)	Neutrik™ XLR Male
Termination (ground)	Alligator clips