

Cinema Sonic Processor (CSP)

The Stewart Filmscreen Cinema Sonic Processor (CSP) is designed for use as an optional audio component (equalizer) connected in line with center channel speakers. Its function is to slightly enhance specific frequencies, which are impeded due to the presence of the screen in front of the speakers.

A. Connections

i. The CSP should be connected between the surround sound processor and the center channel amplifier. The single channel device is designed to operate at line level, via unbalanced RCA connection jacks. Connect the center channel output of the surround processor to the input jack of the CSP. The output jack of the CSP is then connected to the center channel amplifier input jack. If your receiver has pre-amp out for center channel, then this can drive the CSP. The output of the CSP, can then be connected to "center channel, line in" on the receiver. The Cinema Sonic Processor will not function if driven by the output power section of an amplifier or receiver, and cannot drive a speaker. Serious damage can occur to both the amplifier/ receiver, and CSP - don't do this.

ii. The 24-Volt Power Supply is the main power for the CSP. This can be connected to any switched convenience 110 V AC power source, found on the back of the pre-amplifier or receiver.

iii. The 12-Volt power Supply is used to activate the CSP when equalization of the center channel is desired. It can be connected to any switched 110VAC outlet in the system. Candidate outlets are the convenience outlets on the back of pre-amps, receivers, or video signal processing units. Many video projectors are equipped with optional 12-volt trigger voltage outputs, which can be used to connect directly to the 12-volt input of the CSP. (Tip is positive.)

If you have a fixed screen, you will not need the 12-volt power supply. In this case, make sure the switch on the back of the CSP is in the "Fixed" position.

B. Speaker Placement

i. For optimum results, using speakers with conventional dome tweeters, it is best to place the speaker system at a distance of 10 to 12 inches from the back of the screen. Horn loaded drivers can be more closely coupled to the screen. The CSP slightly increases the energy in the frequency range from 10kh to 20kh.