



Processor Settings  
**Cinema System 400 Tri-Amp**

**Crossover**

	Frequency	Slope
CSB215 (x2) - HPF	35Hz	24dB Oct. (4th order) Butterworth
CSB215 (x2) - LPF	250Hz	24dB Oct. (4th order) Linkwitz/Riley
CS300MH MF - HPF	250Hz	24dB Oct. (4th order) Linkwitz/Riley
CS300MH MF - LPF	1,414Hz	24dB Oct. (4th order) Linkwitz/Riley
CS300MH HF - HPF	1,414Hz	24dB Oct. (4th order) Linkwitz/Riley

**Equalization**

	Frequency	BW*	Q	Level
LF	38Hz	.71	2	+3dB
MF	353Hz	.333	4.32	-3dB
HF	2,520Hz	.333	4.32	-2dB

Equalization Settings were developed in an anechoic environment

**Delay**

	Time	Polarity
LF	none	positive
MF	none	positive
HF	.35 msec	positive

Some DSP units will change the propagation delay for each output depending on how much processing is on that channel

**Limiting**

	RMS Voltage
LF	56.6 Volts, 16 msec attack, 256 msec release, 100:1 ratio (recommended predictive peak stop @ 97 Volts or amp clipping)
MF	60 Volts, 2 msec attack, 32 msec release, 100:1 ratio (recommended predictive peak stop @ 126 Volts or amp clipping)
HF	20 Volts, .5 msec attack, 8 msec release, 100:1 ratio (recommended predictive peak stop @ 50 Volts or amp clipping)

See Application Note "Setting System Limiters"

**Gain**

LF	-3dB
MF	0dB
HF	-3dB

Assumes amplifiers have equal voltage gain

**\* BW Disclaimer**  
Different DSP processor manufactures are not consistent in their implementation of digital parametric EQs. **The SLS recommended filters will not be replicated by all DSP devices.** If the DSP device that is used continuously varies the Q value of the filter depending on the +/- dB level, the DSP will not match our settings. (Most of these devices do not allow filter Q to be shown at all.)



Processor Settings  
**Cinema System 400 Bi-Amp**

**Crossover**

	Frequency	Slope
CSB215x2 - HPF	35Hz	24dB Oct. (4th order) Butterworth
CSB215x2 - LPF	200Hz	24dB Oct. (4th order) Butterworth
CS300MH - HPF	200Hz	24dB Oct. (4th order) Butterworth

(with passive crossover option installed)

**Equalization**

	Frequency	BW*	Q	Level
LF	38Hz	.71	2	+3dB
MF/HF	350Hz	.5	2.87	-4dB
	750Hz	.5	2.87	+3dB
	6,800Hz	.5	2.87	-2dB

Equalization Settings were developed in an anechoic environment

**Delay**

	Time	Polarity
LF	none	positive
MF/HF	none	positive

Some DSP units will change the propagation delay for each output depending on how much processing is on that channel

**Limiting**

	RMS Voltage
LF	56.6 Volts, 16 msec attack, 256 msec release, 100:1 ratio (recommended predictive peak stop @ 80 Volts or amp clipping)
MF/HF	49 Volts, 2 msec attack, 32 msec release, 100:1 ratio (recommended predictive peak stop @ 84 Volts or amp clipping)

See Application Note "Setting System Limiters"

**Gain**

LF	-3dB
MF/HF	0dB

Assumes amplifiers have equal voltage gain

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