SUPERIOR LISTENING SYSTEMS
AUDIO CLARITY REDEFINED

Processor Settings

Model LS6593v2 (Bi-amp Mode)

Crossover

	Frequency	Slope
LF w/o subwoofer - HPF	50Hz	24dB Oct. Butterworth
LF w/subwoofer - HPF	80Hz	24dB Oct. Butterworth
LF - LPF	1,500Hz	24dB Oct. Linkwitz/Riley
HF - HPF	1,500Hz	24dB Oct. Linkwitz/Riley

Equalization

	Frequency	BW*	Q	Level
LF	140Hz	.333	4.32	-2dB
LF	1000Hz	.333	4.32	-2dB
HF	2,750Hz	.5	2.87	-5dB
HF	10,000Hz	.5	2.87	+5dB

Equalization Settings were developed in an anechoic environment

Delay

	Time	Polarity
LF	none	positive
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	60 Volts, 16 msec attack, 256 msec release, 100:1 ratio (recommended predictive peak stop @ 120 Volts or amp clipping)
HF	77 Volts, .5 msec attack, 8 msec release, 100:1 ratio (recommended predictive peak stop @ 155 Volts or amp clipping)

See Application Note "Setting System Limiters"

Gain

LF	0
HF	-5dB

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.)

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