



L-ACOUSTICS V7.3 PRESET LIBRARY README FILE

L-ACOUSTICS V7.3

Version 7 represents the most comprehensive set of presets released to date. Due to the number of new presets introduced, it was necessary to divide preset libraries into 5 types:

V-DOSC, dV-DOSC, KUDO, L-ACOUSTICS and MTD

Features for the L-ACOUSTICS V7.3 preset library are described in the following.

INTRODUCTION

The L-ACOUSTICS V7.3 release introduces 3-way presets for the I15XT HiQ (3W and 3WX format for all L-ACOUSTICS subwoofer models). No changes have been made to ARCS, I12XT, I15XT presets or I15XT HiQ 2-way presets for the V7.3 release. As for V7.1 and V7.2, all 3-way presets feature the simplified sub/low time alignment procedure outlined below.

I12XT, I15XT, I15XT HiQ 2-WAY PRESETS

FRONT presets are for standalone FOH operation (without subwoofers) where low and high frequency shelving equalization provides a response contour suitable for music applications.

FILL presets provide nominally flat response for use in speech reinforcement and classical music applications or when the I12XT, I15XT or I15XT HiQ is used as a close proximity fill enclosure. (Both FRONT and FILL presets are derived under freefield measurement conditions)

MONITOR presets include additional low frequency equalization to account for half-space loading conditions and are intended for floor monitoring applications or fixed installations where the I12XT, I15XT or I15XT HiQ is wall- or ceiling-mounted.

ARCS, I12XT, I15XT, I15XT HiQ 3-WAY PRESETS (3W, 3WX)

3W presets utilize a complimentary 100 Hz crossover point for ARCS, I12XT, I15XT or I15XT HiQ enclosures and its companion subwoofer and are recommended for closely coupled applications.

3WX presets are for configurations where ARCS, I12XT, I15XT or I15XT HiQ enclosures are flown and subwoofers are ground stacked. An 80 Hz low pass filter is applied to the subwoofers and ARCS, I12XT, I15XT or I15XT HiQ low frequency response extends to 40 Hz, 55 Hz, 50 Hz or 45 Hz, respectively.



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CHANNEL ASSIGNMENT CONFIGURATION (BSS 366 and XTA 226)

All 2-way presets are configured in stereo 3-way mode (including ARCS, 112XT, 115XT and 115XT HiQ), i.e., channel A and B Low/High outputs are on output channels 2 / 3 and 5 / 6, respectively. This means that drive racks do not require re-cabling when changing from 3-way to 2-way presets (and for BSS 366, more PEQ filters are available for system equalization). For 2-way presets, channels 1 and 4 are unlocked and available for programming of passive fill loudspeakers, subwoofers or, alternatively, for monitoring input equalization when using the Smart measurement system. This channel assignment strategy allows for logical patching between digital signal processor outputs and L-ACOUSTICS Control Output panel (CO6 or CO24) inputs, i.e., channels are patched 1:1, 2:2, 3:3 etc, helping to eliminate potential sources of error due to mispatching.

The adopted channel assignment configuration is also intended for use with the recently-introduced COMB connectors designed for stereo 2-way and stereo 3-way applications: 3W(A), 3W(B), SUB(A), SUB(B), 2W STEREO, 2W(A), 2W(B):

DSP OUTPUT CHANNEL	3W STEREO PRESET	2W STEREO PRESET	CO6 / CO24 CHANNEL
1	SUB(A)		1
2	LO (A)	LO (A)	2
3	HI (A)	HI (A)	3
4	SUB (B)		4
5	LO (B)	LO (B)	5
6	HI (B)	HI (B)	6

NOTE: Output channel assignments are different for BSS 334 and 336 Minidrive:

334 CHANNEL ASSIGNMENTS

2 way stereo mode

Output 1	LO (A)	CO6/CO24 Ch 2
Output 2	LO (B)	CO6/CO24 Ch 5
Output 3	HI (A)	CO6/CO24 Ch 3
Output 4	HI (B)	CO6/CO24 Ch 6

334 CHANNEL ASSIGNMENTS

3 way + 1 Mode

Output 1	SUB (A)	CO6/CO24 Ch 1
Output 2	LO (A)	CO6/CO24 Ch 2
Output 3	HI (A)	CO6/CO24 Ch 3
Output 4	SUB (B)	CO6/CO24 Ch 4

336 CHANNEL ASSIGNMENTS

2 way stereo mode

Output 1	FULL (A)	
Output 2	FULL (B)	
Output 3	LO (A)	CO6/CO24 Ch 2
Output 4	LO (B)	CO6/CO24 Ch 5
Output 5	HI (A)	CO6/CO24 Ch 3
Output 6	HI (B)	CO6/CO24 Ch 6

336 CHANNEL ASSIGNMENTS

3 way stereo mode

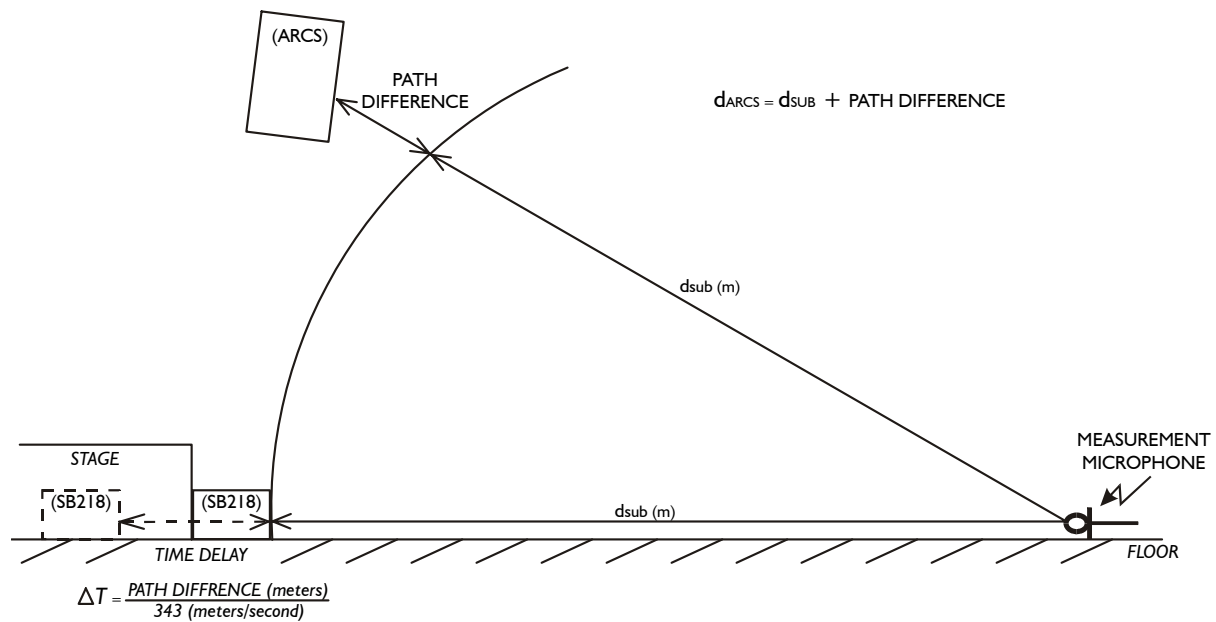
Output 1	SUB (A)	CO6/CO24 Ch 1
Output 2	SUB (B)	CO6/CO24 Ch 4
Output 3	LO (A)	CO6/CO24 Ch 2
Output 4	LO (B)	CO6/CO24 Ch 5
Output 5	HI (A)	CO6/CO24 Ch 3
Output 6	HI (B)	CO6/CO24 Ch 6



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SUBWOOFER TIME ALIGNMENT RECOMMENDATIONS

For the L-ACOUSTICS V7.3 release, sub/low sections are “pre-aligned” for all 3-way presets in a closely coupled measurement configuration. This way, when ARCS or XT enclosures are flown and subs are ground stacked all that is required is to measure the geometric/physical path difference (at your reference point of choice) and add this to the standard pre-aligned sub delay. If using Bushnell Rangefinders to measure the path difference, the accuracy corresponds to +/- 1 meter so the geometric starting point can be varied by +/- 3 msec to verify optimum summation. This provides a quick and easy subwoofer alignment technique for those who don't have the measurement gear required to measure impulse responses. If you have the ability to measure impulse responses, refer to the figures below for the individual presets as a reference for time alignment. Basically, when you look at the separate impulse responses for sub and low sections, there is a “sine wave” signature that needs to be aligned.



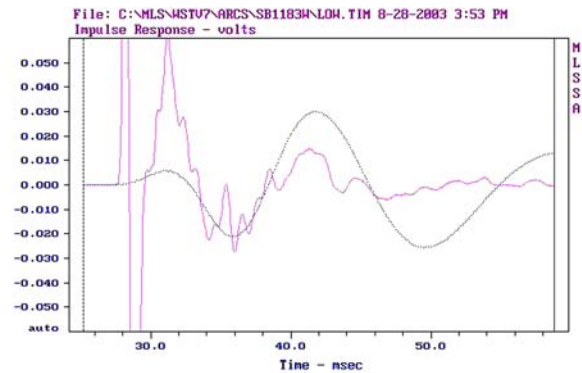
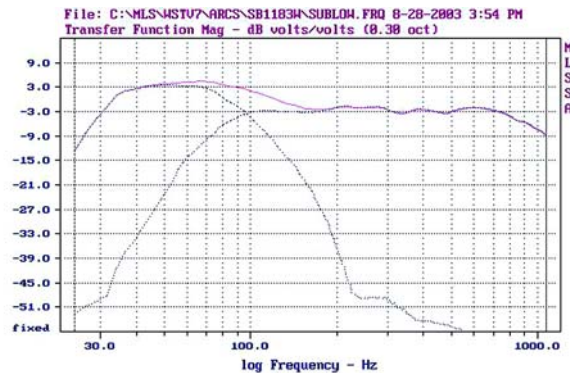


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3-WAY ARCS PRESETS

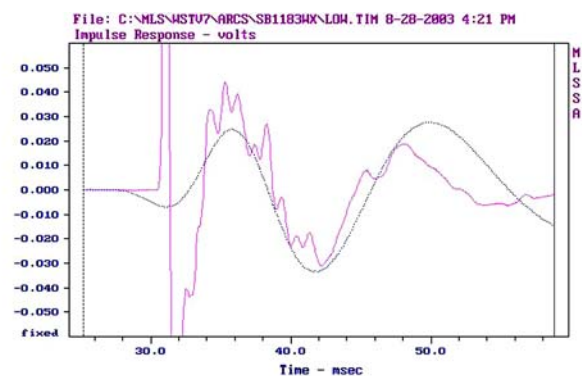
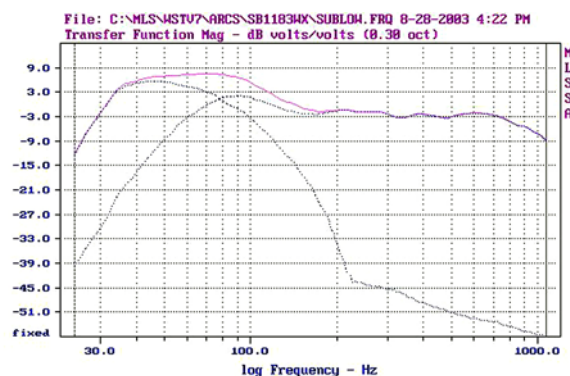
ARCS 3W SBI 18 (80 Hz crossover between SBI 18 and ARCS low section)

The 3W preset is intended for all closely coupled SBI 18 + ARCS configurations.



ARCS 3WX SBI 18 (SBI 18=25-80 Hz/negative polarity, 40 Hz HPF for ARCS)

The 3WX preset is intended for all physically separated configurations, i.e., SBI 18 (ground stacked) + ARCS (flown).



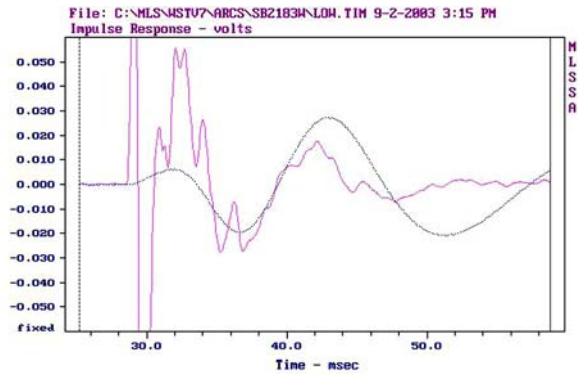
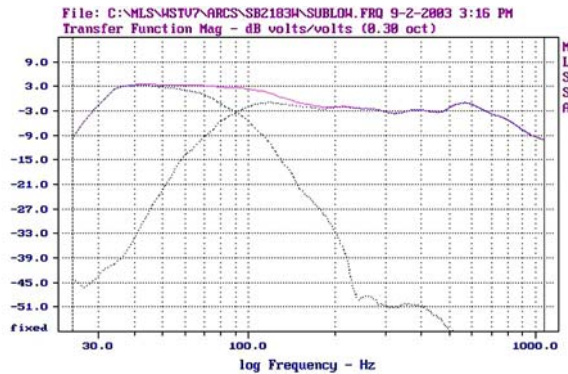


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3-WAY ARCS PRESETS

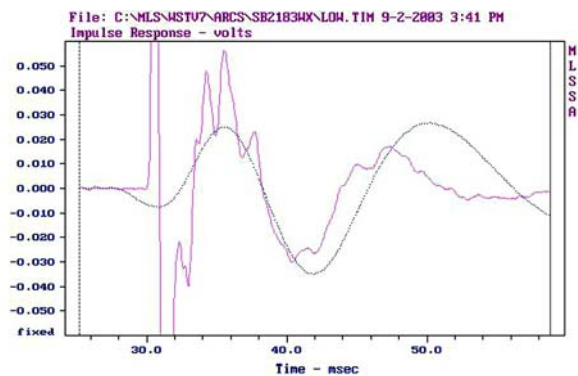
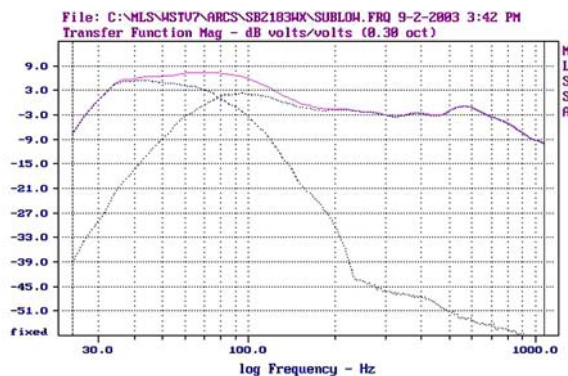
ARCS 3W SB218 (80 Hz crossover between SB218 and ARCS low section)

The 3W preset is intended for all closely coupled SB218 + ARCS configurations.



ARCS 3WX SB218 (SB218=25-80 Hz/negative polarity, 40 Hz HPF for ARCS)

The 3WX preset is intended for all physically separated configurations, i.e., SB218 (ground stacked) + ARCS (flown).



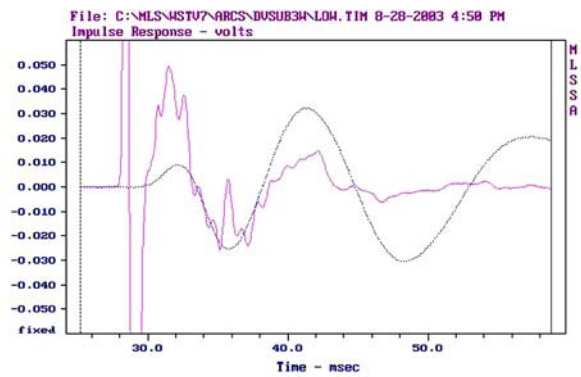
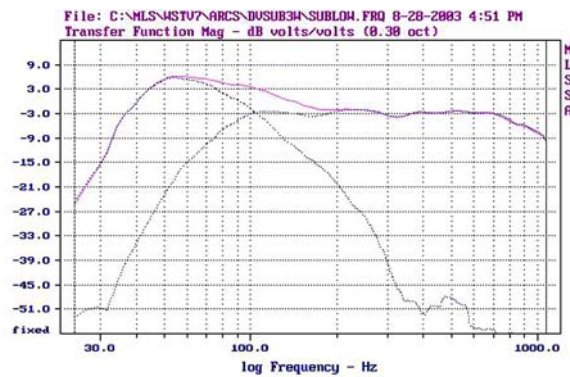


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3-WAY ARCS PRESETS

ARCS 3W dV-SUB (80 Hz crossover between dV-SUB and ARCS low section)

The 3W preset is intended for all closely coupled dV-SUB + ARCS configurations.



ARCS 3WX dV-SUB (dV-SUB=25-80 Hz/negative polarity, 40 Hz HPF for ARCS)

The 3WX preset is intended for all physically separated configurations, i.e., dV-SUB (ground stacked) + ARCS (flown).

