

All RCF active speakers feature FiRPHASE processing for a 0° linear-phase response. This means that a perfect phase alignment with other RCF speakers and subwoofers only requires a simple time delay. Time delay is already available onboard RCF HDL and TT+ speakers. Systems without internal delay require an external capable device.

Insert the following pre-alignment values into your RCF speaker's back panel, RDNet manager or external delay device to provide perfect time alignment when paired with RCF subwoofers. For suspended speakers, add (or subtract) delay-values measuring the PHYSICAL OFFSET between the SPEAKER and the SUBWOOFER as in the following scheme:



# HDM 45-A

## Subwoofer

Loudspeaker type	HDM 45-A Mk4		SUB 702-AS II		SUB 705-AS II		SUB 708-AS II		SUB 905-A II		SUB 8003-AS II	
Preset	See Below		110Hz		80Hz		110Hz		30 - 80Hz (L2)		30 - 80Hz (L2)	
Polarity	[ + ] / 0°		[ - ] / 180°		[ - ] / 180°		[ - ] / 180°		[ - ] / 180°		[ + ] / 0°	
Link or X-Over Output			Link Output		Link Output		X-Over Output		Link Output		Link Output	
Pre-alignment delay	0.0 ms	Preset L1	0.0 ms	0.0 m								
	0.0 ms	Preset L2			0.0 ms	0.0 m						
	0.0 ms	Preset L1					0.0 ms	0.0 m				
	0.0 ms	Preset L2							6.5 ms	2.2 m		
	0.0 ms	Preset L2									7.3 ms	2.5 m

Loudspeaker type	HDM 45-A Mk4		SUB 8004-AS		SUB 8006-AS		SUB 9004-AS		SUB 9006-AS		SUB 9007-AS		TTS 15-A		TTS 18-A II		TTS 36-A		TTS 56-A	
Preset	See Below		120Hz		120Hz		30 - 80 (L4)		30 - 80 (L4)		30 - 80 (L4)		30 - 80 (L4)		30 - 80 (L4)		30 - 90Hz		30 - 90Hz	
Polarity	[ + ] / 0°		[ + ] / 0°		[ + ] / 0°		[ - ] / 180°		[ - ] / 180°		[ - ] / 180°		[ - ] / 180°		[ - ] / 180°		[ - ] / 180°		[ - ] / 180°	
Link or X-Over Output			Link Output		Link Output		Link Output		Link Output		Link Output		Link Output		Link Output		Link Output		Link Output	
Pre-alignment delay	0.0 ms	Preset L2	7.3 ms	2.5 m																
	0.0 ms	Preset L2			6.5 ms	2.2 m														
	0.0 ms	Preset L2					3.6 ms	1.2 m												
	0.0 ms	Preset L2							4.0 ms	1.4 m										
	0.0 ms	Preset L2									3.0 ms	1.0 m								
	0.0 ms	Preset L2											1.4 ms	0.5 m						
	0.0 ms	Preset L2													3.2 ms	1.1 m				
	0.0 ms	Preset L2															4.5 ms	1.5 m		
0.0 ms	Preset L2																	3.6 ms	1.2 m	

$\Delta T$  (ms) = Physical Offset (m) / 0.343 (m/ms)

∅ - polarity reverse [ + ] = 0° Phase [ - ] = 180° Phase

To convert milliseconds (ms) values in meters, multiply them by 0.343