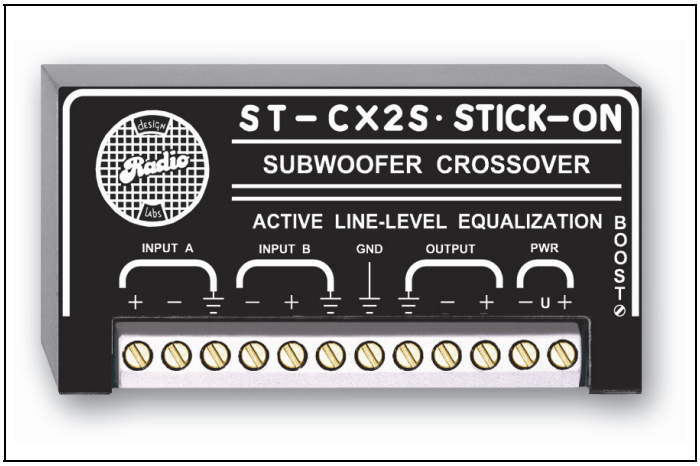
RDL®
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES
Model ST-CX2S
Subwoofer Filter

- Active Subwoofer Equalization
- Subwoofer Signals from Stereo Source
- Adjustable Low-frequency Boost
- Very Low-Noise & Low-Distortion Crossover
- RDL SupplyFlex™ Power Input Configuration



The ST-CX2S is a subwoofer signal equalizer in the STICK-ON series of products from Radio Design Labs. Various mounting options permit installation right where you need it, or use it with RDL racking accessories. The ST-CX2S offers flexibility in equalization adjustment, with the exceptional performance RDL products are known for. STICK-ONs are designed, built and rated for continuous duty in professional A/V systems.

APPLICATION: The ST-CX2S features two separate isolated balanced-bridging inputs, which may each be wired balanced or unbalanced. The output driver is 150 Ω balanced which can drive low or high impedance balanced or unbalanced lines. The module operates at unity gain at 63 Hz (balanced input to balanced output). A **BOOST** control permits adjustment of the output at 32 Hz from flat to +5.5 dB.

The ST-CX2S line-level stereo inputs are intended to bridge existing line-level feeds, and are totally isolated from each other to produce no degradation of an existing stereo signal. A mono signal may be connected to either one of the two inputs (and the other input remains unused). The output from the ST-CX2S feeds the line-level input of the power amplifier being used to drive the subwoofer.

This module is the ideal companion to the RDL ST-CX2 active two-way line level crossover. The ST-CX2 modules provide line-level audio for amplified two-way systems plus a loop-through output to feed an RDL ST-CX2S if a subwoofer is included in the system design.

The ST-CX2S features RDL's SupplyFlex power input configuration for operation directly from ground-referenced, floating or bipolar 24 Vdc power.

Whether adding a subwoofer amplifier/speaker to an existing system, or designing an audio system with subwoofers, the ST-CX2S is the ideal choice. Its extremely low noise and low distortion makes it suitable for the most demanding applications. Used individually, or combined with other RDL products, the ST-CX2S can be part of the most versatile and high performance sound systems!

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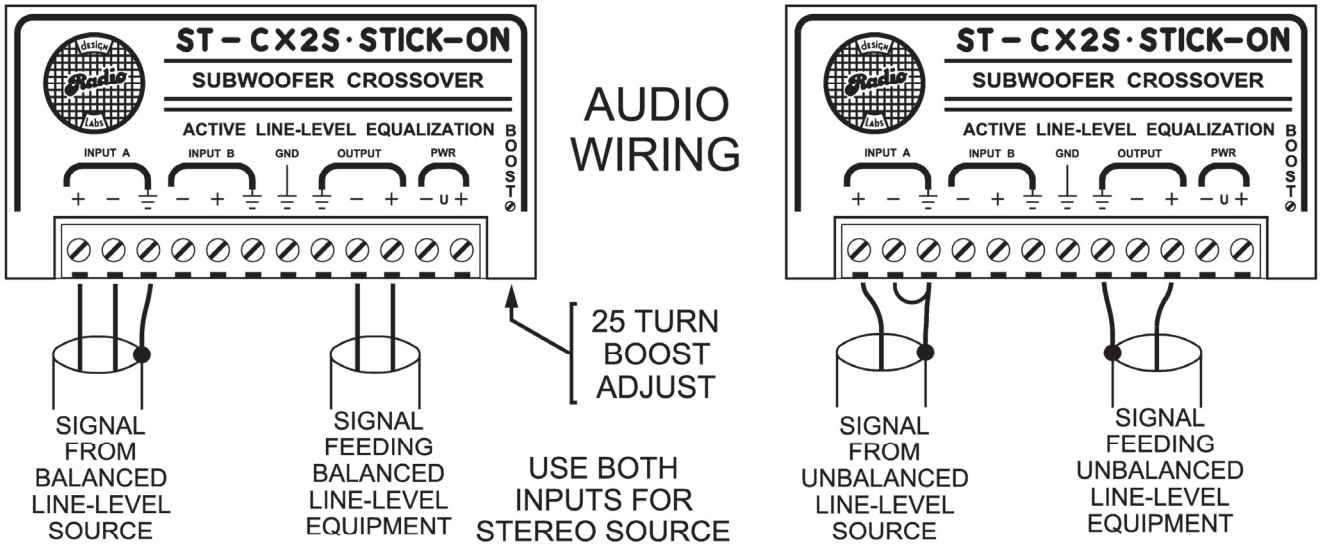
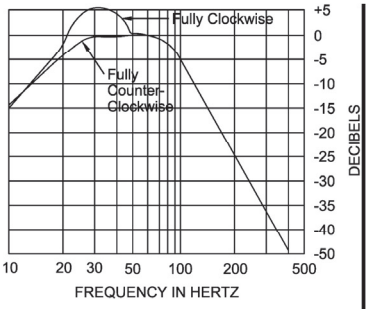
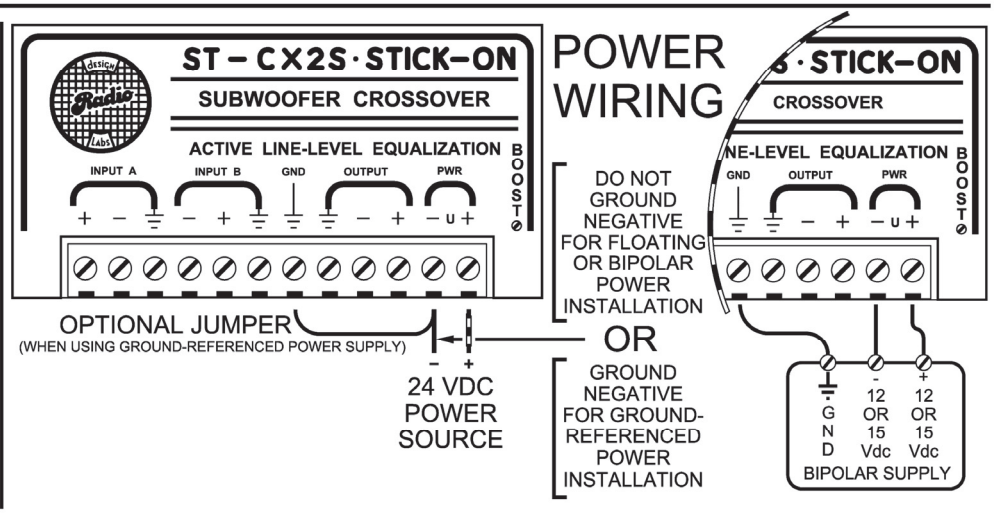
Installation/Operation

EN55103-1 E1-E5; EN55103-2 E1-E4
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.





BOOST ADJUST Adjust for desired low frequency boost. This control is factory set to match the JBL Model 4645 THX approved subwoofer (THX is the registered trademark of Lucasfilm, Ltd.). This is a 25-turn control which sets the boost at 30 Hz. It may be turned counterclockwise for subwoofers not requiring this boost.



TYPICAL PERFORMANCE

Inputs (2):	50 kΩ balanced line-level (+4 dBu)
Output:	150 Ω balanced line-level (+4 dBu)
Output Bandwidth:	22 Hz to 80 Hz (adjustable BOOST)
High Freq. Attenuation:	> 45 dB (at 400 Hz)
Gain:	Unity at 63 Hz; adjustable flat to +5.5 dB at 32 Hz
Headroom:	18 dB minimum at 30 Hz (maximum boost), 22 dB typical
THD+N:	< 0.05%
CMRR:	> 60 dB (30 Hz or above)
Residual Noise:	< 90 dB (referred to +4 dBu); 95 dB typical
Ambient Operating Environment:	0° C to 55° C
Power Requirement:	Ground-referenced or Floating 24 Vdc @ 30 mA
Dimensions:	Height: 1.55 in. 3.94 cm Width: 3.00 in. 7.62 cm Depth: 0.65 in. 1.65 cm

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