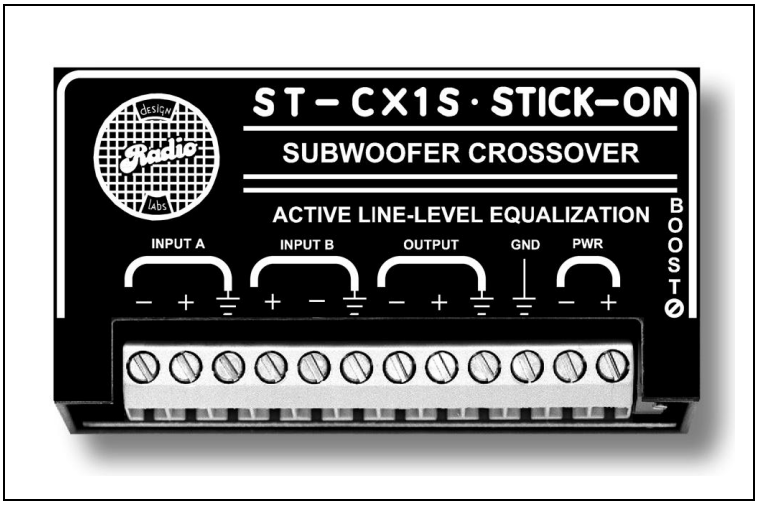
RDL® Radio Design Labs®

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES

Model ST-CX1S
Subwoofer Filter



ANYWHERE YOU NEED...

- Active Subwoofer Equalization
- Isolated Stereo Inputs
- Adjustable Low-frequency Boost
- Very Low Noise & Distortion Filter
- STICK-ON Convenience

You Need The ST-CX1S!

The ST-CX1S 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-CX1S offers flexibility in equalization adjustment, with the exceptional performance RDL products are known for.

APPLICATION: The ST-CX1S 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.

Line-level stereo sources are intended to bridge existing line-level feeds, and are totally isolated to produce no degradation of the existing stereo signal. A mono input may be connected to either one of the two inputs (and the other input remains unused). The output from the ST-CX1S feeds the line-level input of the power amplifier being used to drive the subwoofer.

Whether adding a subwoofer amplifier/speaker to an existing system, or designing an audio system with subwoofers, the ST-CX1S is the ideal choice. Its extremely low noise and low distortion makes it suitable for the most demanding applications. Whenever used in conjunction with other RDL RACK-UP®, STICK-ON, TX™, or FLAT-PAK™ series products, the ST-CX1S can be part of the most versatile and high performance sound systems!

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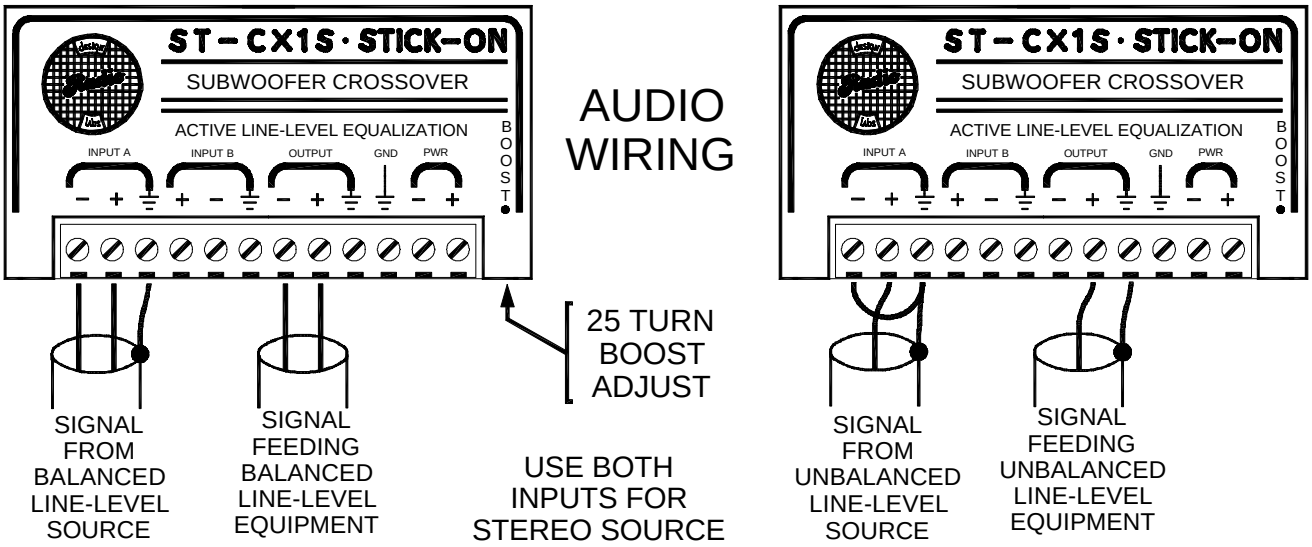
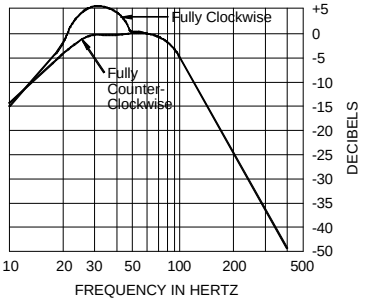
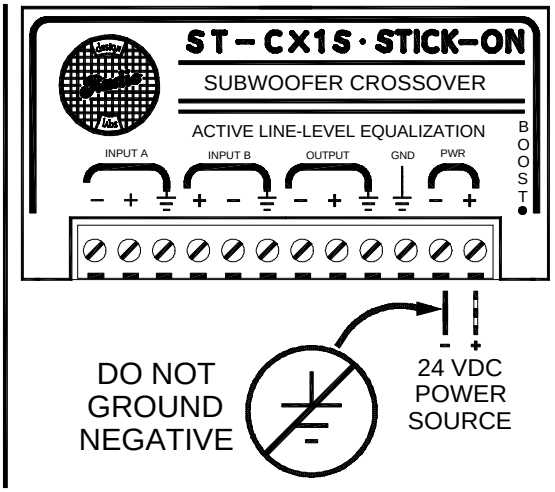
Installation/Operation

CE **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 4645B 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.



POWER WIRING

RDL PS-24 TYPE SUPPLY SHOWN. A BIPOLAR 12 OR 15 VOLT DC SUPPLY MAY BE USED WITH BIPOLAR SUPPLY GROUND CONNECTED TO MODULE GND.

TYPICAL PERFORMANCE

Input/Output Level:	+4 dBu line level
Input Impedance:	10 kΩ
Input Configuration:	Balanced or unbalanced, bridging
Output Impedance:	150 Ω
Output Configuration:	Balanced or unbalanced line level
Output Bandwidth:	22 Hz to 80 Hz, adjustable boost per curve
High Freq. Attenuation:	Per curve, > 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 at 60 Hz or above
Residual Noise:	< 90 dB below operating level; 95 dB typical
Power Requirement:	24 to 33 Vdc @ 30 mA, Floating
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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