



**RDL**<sup>®</sup>  
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

## STICK-ON<sup>®</sup> SERIES Model STA-2 High Output Line Amplifiers

### ANYWHERE YOU NEED...

- Up to 24 dB Gain in an Audio Line
- Conversion from Unbalanced to Balanced
- Conversion from High to Low impedance
- Low Impedance, High Current Line Drivers
- A Two-channel Line-Level Preamp
- High Gain, High Output, High Performance



### ***You Need The STA-2!***

The STA-2 is part of a group of products in the STICK-ON series from Radio Design Labs. The durable bottom adhesive permits quick, permanent or removable mounting nearly anywhere or it may be used with RDL's racking accessories. The STA-2 offers the ultimate in high performance line-level preamplification, with the big *plus*, you can put it right where you need it!

**APPLICATION:** The STA-2 is a two channel, line-level audio preamplifier. Each channel is identical. The audio inputs are bridged at 5 k $\Omega$  and accept either an unbalanced or a balanced audio signal. Gain is adjustable from unity gain to +24 dB using a 25-turn precision trimming potentiometer. The output line driver circuits are designed to drive long balanced audio lines into 600  $\Omega$  loads.

The audio circuits in the STA-2 are all dc coupled for the ultimate in pure, transparent audio clarity. The power supply input may be fed from a floating (not ground-referenced) 24 Vdc power source, or from a bipolar power supply (+/-12 Vdc or +/-15 Vdc).

Many audio products provide optimum performance when feeding into a bridging input, but may not provide the output needed to directly drive low-impedance lines terminated with 600  $\Omega$  transformers. The STA-2 is specifically designed for such installations, and is also ideal in installations requiring high gain in line-level audio transmission.

Both the input and output circuits function as electronic transformers, permitting either balanced or unbalanced audio connections. The STA-2 may be used as a balanced input/balanced high-level output, two-channel (stereo) preamplifier, or may be used to convert unbalanced sources to 600  $\Omega$  balanced lines.

In installations where high gain may be required and balanced signals must drive terminated 600  $\Omega$  lines, the STA-2 is the ultimate choice. The STA-2 offers the unparalleled longevity and audio clarity for which RDL products are known. Used in conjunction with other RDL RACK-UP<sup>®</sup>, STICK-ON, TX<sup>™</sup>, or FLAT-PAK<sup>™</sup> series products, the STA-2 can be the foundation for many high quality, innovative audio systems!

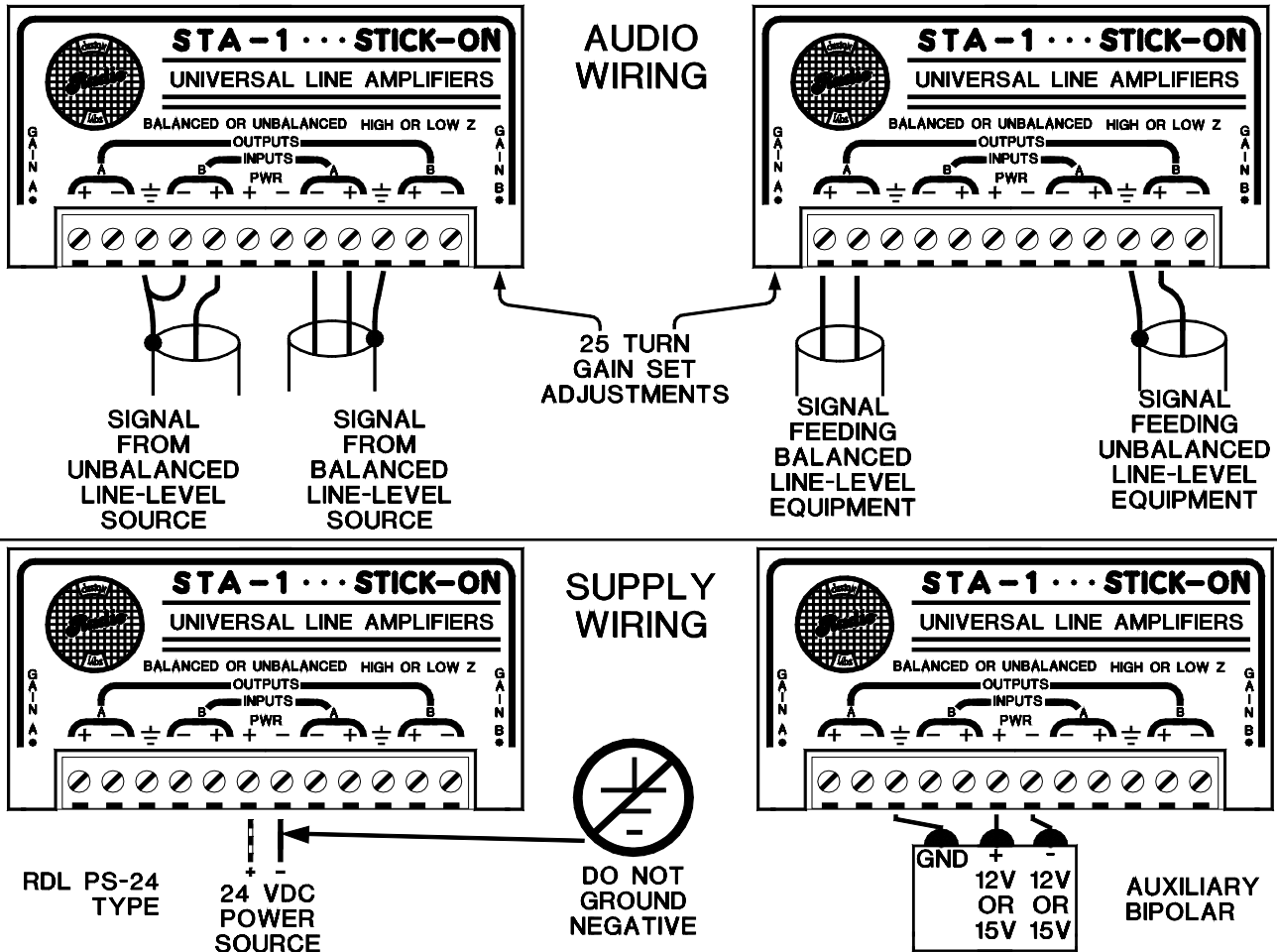
# STICK-ON<sup>®</sup> SERIES

## Model STA-2

### High Output Line Amplifiers

## 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.



(NOTE: STA-2 Connections are identical to those of STA-1)

### TYPICAL PERFORMANCE

Amps per STA-2:

Gain:

Input impedance:

Input configuration:

Output impedance:

Output configuration:

Frequency Response:

Total Harmonic Distortion:

Output Level:

Headroom:

Noise:

CMRR:

Crosstalk:

Power Requirement:

2 identical circuits (stereo or dual mono operation)

Unity to 24 dB adjustable, into 600 Ω (separate controls for each channel)

5 kΩ bridging

Balanced or unbalanced

150Ω balanced, drives 600Ω or 10kΩ lines

Balanced or unbalanced

10 Hz to 50 kHz +/- 0.25 dB

< 0.020%

+4 dBu

18 dB (at rated output level of +4 dBu)

-80 dB referred to 4 dBu (20 Hz to 20 kHz)

-65 dB at 100 Hz

Better than 80 dB (10 Hz to 20 kHz)

24 to 33 Vdc @ 50 mA, Floating

Radio Design Labs Technical Support Centers

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