



CUSTOM AMPLIFICATION

B501 BASS PREAMP

OWNERS MANUAL

REV B



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Sluggo Music Technology LLC
P.O. Box 913
Dunedin, FL 34697-0913
(727) 247-2520

sales@sluggomusic.com
service@sluggomusic.com

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1.1 Introduction

Thank you for purchasing the SUNCOAST – B501 Bass Preamp. It is our commitment to providing our customers with the highest quality, musical instrument preamp/processors, designed and built in the USA.

1.2 Features

The following is a summary of your B501 Bass Preamp's unique features:

- The Ultimate Solid-State Bass Preamp in a 500 Series Studio Module. Also works great with Baritone Guitar and Bass Synthesizers.
- Dual Preamp design with Super Boost™ Triple Overdrive technology.
- Compatible with API and Radial® Workhorse™ standards.
- Front panel ¼" mono Instrument Input and buffered Loop Output.
- Active 3-Band EQ with Bass, Midrange and Treble (+/-15dB).
- Variable Midrange Frequency control (70Hz - 2 KHz).
- 100% discreet analog circuit design utilizing precision surface mount technology.
- Low Noise, Balanced Inputs and Outputs, Mono Buss Feed Output.
- Gold plated I/O connector.
- Solid, Aluminum Chassis, Durable Black Satin Powder Coating.



2.1 Front Panel Layout



2.2 Preamp Controls

Drive - The Drive control adjusts the input level of the preamp.

Volume - The Volume control adjusts the output level of the preamp.

Boost Vol - This control adjusts the Overdrive preamp Volume.

Bass - This tone control adjusts the amount of low frequencies (+/-15dB).

Middle - This tone control adjusts the amount of mid frequencies (+/-15dB).

Freq - This control adjusts the midrange center frequency (70Hz – 2 KHz).

Treble - This tone control adjusts the amount of high frequencies (+/-15dB).

2.3 Front Panel Jacks

Input - ¼” mono instrument Input (1M ohm Input Impedance).

Loop Output - ¼” mono buffered Loop Output.

2.4 Front Panel Switches

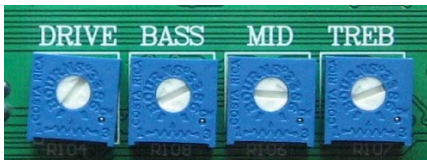
Gain Switch – Adds +10dB of input gain for low output instrument pickups.

Boost Switch – Adds +10dB Mid/Treble Boost.

EQ Switch – Shifts Bass, Midrange and Treble center Frequencies.
(30/50Hz, 70Hz-2kHz/150Hz-4kHz and 4/6kHz)

Super Boost Switch – Turns on the Overdrive preamp.

2.5 Internal Overdrive Preamp Controls



CH1 Overdrive Preamp EQ

1. Drive – Adjusts the input drive gain of Overdrive Preamp.
2. Treble – Active +/-15dB High tone control (4KHz).
3. Middle – Active +/-15dB Mid tone control (500Hz/1.2kHz).
4. Bass – Active +/-15dB Low tone control (50Hz).

CH1 Overdrive Preamp Dip Switch

1. Boost Mode – Adds +20dB Mid/Treble boost.
2. Full Range – Overdrive preamp in Full Range mode when ON.
3. Mid Freq – Selects Midrange frequency (500Hz/1.2Hz).
4. Treble Freq – Selects Treble frequency (4KHz/6KHz).

3.1 Preamp Tone Settings

These settings are merely a suggested starting point from which you can set to your own personal taste.

Drive – 5

Volume – 7 (adjust for desired loudness)

Boost Vol - 5

Bass – 7

Freq - 300

Middle – 4

Treble – 5

3.2 Operating Instructions

- Always connect your instrument input and preamp output prior to turning the unit ON.
- Use only quality coaxial instrument cable (guitar cord) patching your preamp to your amplifier.
- Always connect the unit a proper power source and use a grounded outlet strip, otherwise a shock hazard may result, especially when the unit is connected to other equipment. Connection to improper line voltage may cause permanent damage.
- Do not expose this unit to rain or excessive moisture. This may cause a shock hazard or damage to the unit.

SAFETY NOTICE: There are no user serviceable parts inside the unit. Refer servicing to qualified personnel only.

4.1 Specifications

Input Voltage – +/- 16VDC

Current Consumption – 170mA

Input Impedance – 1Meg Ohm

Output Impedance – 600 Ohms

Dimensions – 3”W x 5”H x 7”D

Weight – 1 lbs

