



CUSTOM AMPLIFICATION

B1p BASS PREAMP

OWNERS MANUAL

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1.1 Introduction

Thank you for purchasing the SUNCOAST - B1p Bass Preamp. It is our commitment to providing our customers with the highest quality, musical instrument preamp/processors, designed and built in the USA. Utilizing our vast experience with classic designs over the past 30 years, we set out to recreate that unique sound from some of our personal favorite artists.

1.2 Features

The following is a summary of your B1p Bass Preamp's unique features:

- The Ultimate Solid-State Bass Preamp in a pedal. Also works great with Bass Synthesizers and Baritone Guitar.
- The Boost Mode preamp features Super Boost™ triple Overdrive and separate EQ for Monstrous, Harmonic Heavy, Bass solo's.
- Internal trim pots for Boost preamp Drive, Bass, Midrange and Treble.
- Internal dip switch for selecting OD1(Normal) or OD2(Super Boost).
- Buffered effects loop Send and Return jacks allows for patching external FX between the preamp out and limiter input. True bypass footswitch.
- Active +/-15dB Bass, Midrange and Treble EQ with sweepable Midrange Frequency control.
- Limiter footswitch with variable Threshold control to tame your funk'n thumb.
- 100% discreet analog circuit design utilizing precision surface mount technology.
- Ultra quiet 560 kHz switch mode DC power supply for +/-15V internal operation, 26V peak to peak Dynamic Headroom.
- Solid, Diecast Aluminum Enclosure, Durable Black Satin Powder Coating - Dimensions 4.7 x 7.4 x 1.3"
- Standard 9VDC, 300mA Adapter

2.1 Front Panel Layout



2.2 Preamp Controls

Limiter - This control adjusts the limiter threshold for when it kicks in.

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

Bass - This tone control adjusts the amount of low frequencies.

Freq - This control adjusts the midrange center frequency.

Middle - This tone control adjusts the amount of midrange frequencies.

Treble - This tone control adjusts the amount of high frequencies.

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

Limiter Footswitch – Turns the Limiter On/Off.

Boost Footswitch – Engages the Overdrive Preamp.

Bypass Footswitch – Turns the Preamp On/Off.

2.3 Rear Panel Layout



2.4 Rear Panel Jack Description

Power Input - Power input jack, 9VDC @ 250mA (Center–Negative).

Input - Main instrument input jack.

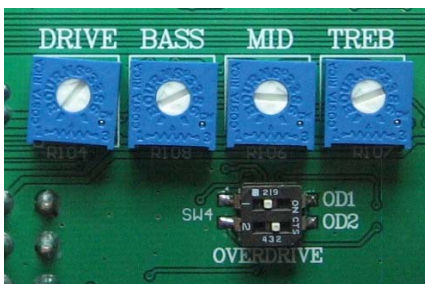
Output - Main preamp output jack.

Boost Vol - Boost Volume for blending Overdrive preamp with clean tone.

Send - Effects Loop Send jack, (preamp out).

Return - Effects Loop Return jack, (limiter in).

2.5 Internal Overdrive Preamp Controls



Overdrive Preamp – Controls are accessible by removing the bottom cover. The internal Drive, Bass, Middle and Treble trimpots can be used to customize your Overdrive level and tone.

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).

Overdrive Dip Switch

1. OD1 – Selects (Normal) Boost.
2. OD2 – Selects (Super Boost™) Triple Overdrive.

Note: Only one OD dip switch can be ON at a time, Otherwise the Overdrive Preamp circuitry could oscillate or Motorboat.

Input Dip Switch

1. Input Gain – Adds +10dB of input gain for low output pickups.
2. CH2 Boost – Adds +20dB Mid/Treble Boost to the Clean preamp.



CH1 Preamp Dip Switch

1. CH1 Boost – Adds +20dB Mid/Treble boost to the Overdrive preamp.
2. CH1 Mid Freq – Selects Mid Frequency (500Hz/1.2Hz).
3. CH1 HP Filter – Overdrive Preamp Full Range Mode when ON.
4. Combine Mode – Both Clean/Overdrive Preamps ON when in Boost Mode.

3.1 Operating Instructions

- Always connect your instrument input and preamp output prior to turning the unit or pedal board 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. Domestic 9VDC power adapters should be connected to 115VAC, 60 Hz. 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.

3.2 External Effects Patching

Bass Guitar > Envelope Filter > Flange > Chorus > B1p Input

B1p Send > Vol Pedal > Digital Delay > Noise Gate > B1p Return

B1p Output > Power Amplifier > Speaker

3.3 Preamp Tone Settings

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

Limiter - 5

Volume – 7 (adjust for desired loudness)

Bass – 7

Freq - 4

Middle – 4

Treble – 3

Drive – 5

4.1 Specifications

Input Voltage – 9VDC

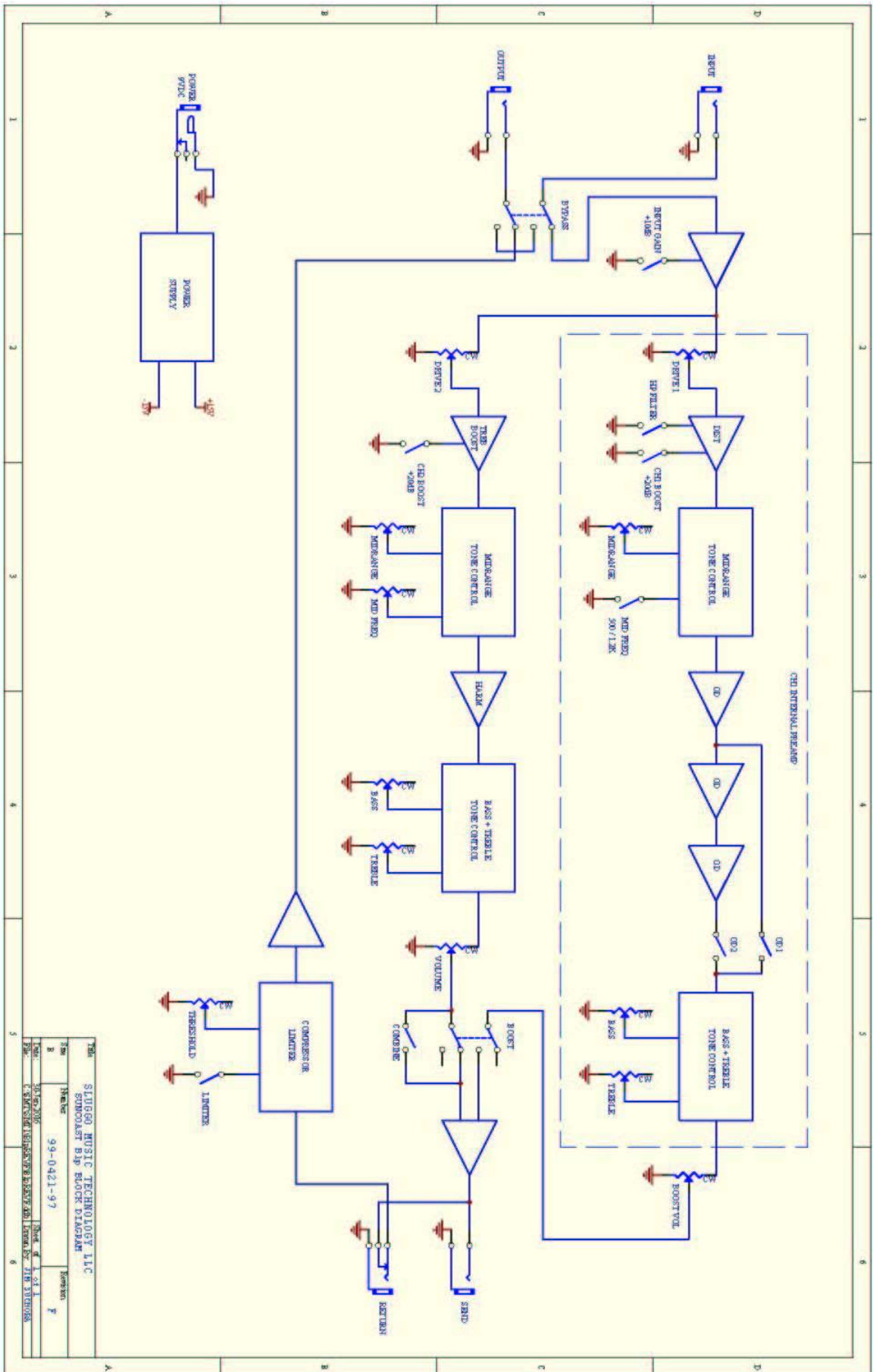
Current Consumption – 250mA

Input Impedance – 1Meg Ohm

Output Impedance – 600 Ohms

Dimensions – 7.4”W x 4.7”H x 1.3”D

Weight – 1.1lbs



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STUDIOCAST BAP BLOCK DIAGRAM	
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