

Suncoast

CUSTOM AMPLIFICATION

HD2 TUBE PREAMP OWNERS MANUAL



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1.1 Introduction

Thank you for purchasing the SUNCOAST – HD2 Tube 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 HD2 Tube Preamp's unique features:

- The Ultimate Tube Preamp for Electric Guitar, Pedal steel, Etc.
- The Dual Tube Preamp features “Hybrid Analog Design 2.0 Technology™” merging classic vacuum tube designs with modern high voltage surface mount technology.
- Channel – Volume, Treble, Middle, Bass controls and Master Volume.
- Pushbutton switches for Bright, EQ select, Mid Boost and Deep cut.
- Overdrive – Level and Ratio controls to custom tailor your distortion.
- Preamp Boost footswitch adds extra Gain and EQ (treble boost/bass cut).
- Overdrive footswitch engages massive dual tube Overdrive/Distortion.
- Accutronics Digi-Log, Digital Long Spring Reverb - 2.8sec.
- Buffered Master Volume with True Bypass footswitch.
- Buffered effects loop allows for patching of external FX.
- Ultra quiet, 560KHz switch mode DC power supply for +/-12V internal operation. Custom designed, High Voltage +240V switch mode DC power supply for real vacuum tube plate voltage.
- Solid, Diecast Aluminum Enclosure, Durable Black Satin Powder Coating - Dimensions 4.7 x 7.4 x 1.3"

2.1 Front Panel Layout



2.2 Preamp Controls

Volume - The Volume control adjusts the input level of the clean preamp.

Treble – The Treble control adjusts the amount of high frequencies.

Middle – The Middle control adjusts the amount of midrange frequencies.

Bass – The Bass control adjusts the amount of low frequencies.

Master – The Master volume controls that clean preamp output level.

Level - This control adjusts the amount of Overdrive preamp gain.

Ratio - The ratio control adjusts Output level of the Overdrive preamp.

Bright Switch – Adds extra treble boost to the input Volume control.

EQ Switch - This switch selects between either Baxandall EQ (Jazz) or Vintage Tone Stack EQ (Rock).

Deep Switch – Adds extra 10dB midrange cut to the EQ.

Boost Footswitch – This adds extra Gain boost and EQ shaping (Treble Boost/Bass Cut).

Overdrive Footswitch – Engages the Overdrive Preamp.

Bypass Footswitch – Engages the true Bypass mode.

2.3 Rear Panel Layout



2.4 Rear Panel Jack Description

Power Input - Power input jack, 9VDC @ 1300mA (Center–Negative).

Input - Main instrument input jack.

Output - Main preamp output jack.

Reverb – Reverb Level Control.

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

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

3.1 External Effects Patching

Instrument

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HD2 (Input)

HD2 (Send)

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Effects

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HD2 (Return)

HD2 (Output)

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Power Amplifier

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Speaker

3.2 Preamp Tone Settings

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

Volume – 5 (adjust for desired loudness)

Treble – 4

Middle – 4

Bass – 4

Master Volume – 5 (adjust for desired loudness)

Level – 4

Ratio – 5

3.3 Specifications

Input Voltage – 9VDC

Current Consumption – 850mA

Input Impedance – 1Meg Ohm

Output Impedance – 600 Ohms

Dimensions – 7.4”W x 4.7”H x 1.3”D

Weight – 1.1lbs

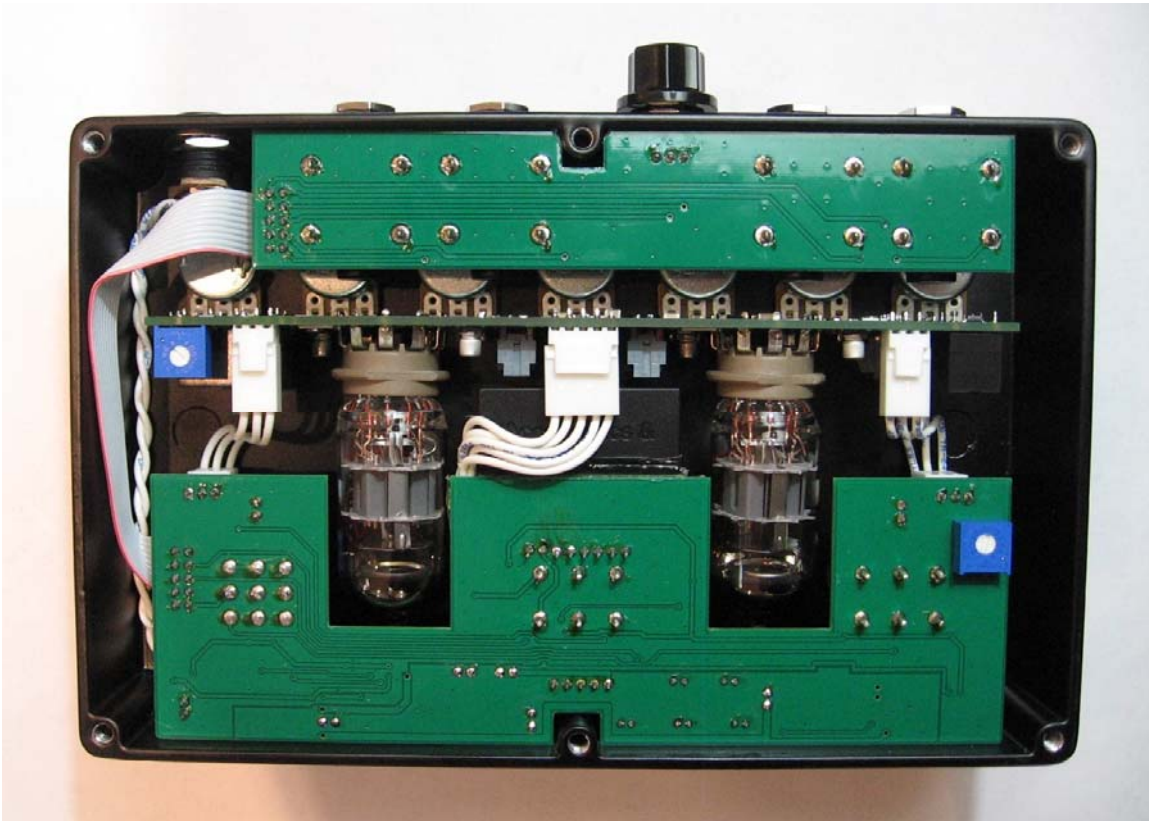
3.4 Operating Instructions

- 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.

This unit contains “**EXTREMELY**” **HIGH VOLTAGES** that can be **HARMFUL OR LETHAL!** **DO NOT OPERATE THIS UNIT WITH THE BOTTOM COVER REMOVED.** **SERIOUS RISK OF SHOCK AND PERSONAL INJURY MAY RESULT!**

TUBE PLATE VOLTAGE - 240VDC!



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