## Beta Ceries Operating Manual



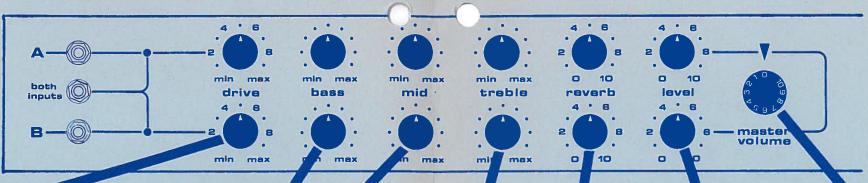
P.O. Box 429 • Tualatin, Oregon 97062 • 1-503-638-6551

**Congratulations** on your purchase of the new Beta Guitar amplifier. The Beta Series, with its advanced "Digital C-MOS Technology," demonstrates Sunn's basic philosophy of leadership and professionalism.

Exhausting research results in many advanced characteristics to harmonize with its extreme flexibility, unmatched by any other guitar amplifier yet developed. Features such as: digital channel switching, variable Q tone controls, independent reverb and level mixing, and more, combine to provide you, the performer, with the foremost in quality sound amplification and modifying capabilities.

## Beta Series Features Operations





**Drive** control changes the gain or amplifying ability of its respective preamp channel. By adjusting this control to a lower setting, the user may obtain a clean sounding program. Adjusting to a higher setting accents the C-MOS overdrive characteristic, common only to Beta guitar amplifiers. With increasing amounts of overdrive the sustain is emphasized by the dynamic C-MOS compression.

Mid control enables the operator to vary mid equalizer response (400-1400HZ) from off (min.) to an effective range of 30db.

Bass control enables the operator

to vary bass equalizer response (20-400HZ) from off (min.) to an

effective range of 32db.

effect to the channel under operation. Since the reverb signal is independent of the equalizer and level controls, they will not affect the reverberant level or its tone. This can allow an additional sound modification through use of the reverb control.

Reverb control adds reverberation

Master Volume control combines both channels A and B for overall output level of the Beta system including patched accessories.

After balance is achieved, overall level may be adjusted with this single control.

Treble control enables the operator to vary treble equalizer response (1400-20,000HZ.) from off (min.) to an effective range of 37db.

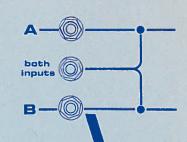
Preamp output **Level** control provides increase or decrease of amplitude for its respective channel only. It controls the volume of pre-set tone and drive controls affecting balance between channels

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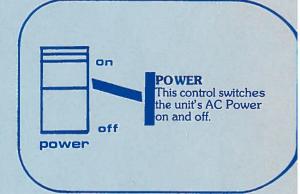


BETA BASS

### **INPUTS**



Switchable electronic inputs create valuable features to your system. If no instrument is plugged into the input Jack, that channel's input is off. Therefore, the idle channel is not creating any noise or interference for the operating channel. If an instrument is applied to Channel A, for example, the L.E.D. indicator will light, showing Channel A is on and ready for operation. When the BOTH inputs Jack is utilized, BOTH channels will be activated, and both L.E.D. indicators will be on. These types of inputs are extremely useful for stereo guitars, etc. In addition, the BETA-SWITCH accessory available for your Beta system presents remote switching capabilities, as well as remote reverb operation. (See BETASWITCH in Patching Guide.)



### BETA POWER +

#### CONDITION INDICATOR-CLIPPING

Red L.E.D. condition indicator, when fully lighted, signifies a shorted or improper load, as well as power amplifier clipping. (Clipping occurs at the point when the power amp has reached maximum power and distortion is evident.)



Input Sensitivity control allows the user a wide range of input amplitude. When used with a Beta Lead or Bass, the sensitivity control would normally be set at maximum. This calibrates the Power+ to the Lead and Bass for the same output level.

The Power+ **Line in** Jack accepts a variety of input signal levels from external sources to be amplified.



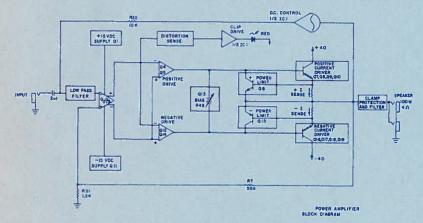
The Line out Jack represents the same program applied to the Line in Jack, of equal amplitude. This output can be utilized for patching additional amplifiers.

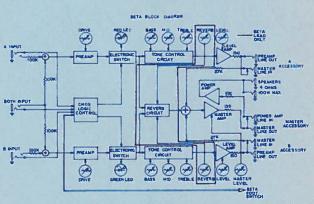
# **Specifications**

BETA LEAD—BASS—POWER+	
Preamp input (A-B)	100K ohms
Preamp input (Both)	50K ohms
Master Accessory from	10K ohms
(Power Amp Input)	
Accessory from (A-B)	27K ohms
Master Accessory to	150 ohms
Accessory to (A-B)	150 ohms
(Preamp Lineout)	
Line In	10K ohms

POWER OUTPUT All Beta series	100 watts RMS
Total Harmonic distortion	@ 4 ohm loadLess than .25%
SYSTEM GAIN  Beta Lead-Bass (A or B)	
WARRANTY	1 year Limited

# **Block Diagram**





## Beta Geries Patching Guide

