

Alpha Self-Contained Series Operating Manual



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Congratulations on your purchase of the new Alpha Self-Contained Amplifier. The Alpha, with advanced "C-MOS Technology" demonstrates Sunn's technical leadership and market sensitivity.

The Alpha Self-Contained Series Amplifier is the result of extensive research to develop a small, portable, self-contained instrument amplifier. Features include Brite and Normal inputs, C-MOS Drive Control, Bass, Mid and Treble controls, Headphone output, Accessory input and output, Level control and a special Mid-Frequency control that varies the center frequency of the Mid Control from the upper bass to the lower treble.

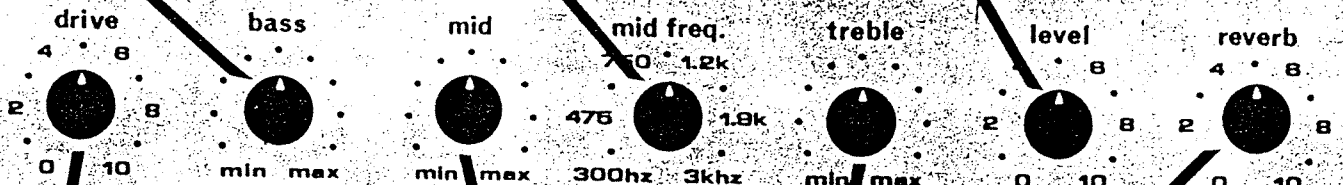
The Alpha Series Musical Instrument Amplifiers all contain a special C-MOS limiter circuit between the preamplifier and the power amplifier. This allows you to use the full rated power of the amplifier with less distortion due to clipping. What this means to you is 50 watt portability and size with the performance of a more powerful amplifier.

The Alpha Self-Contained Series is available in 1-12", 2-10", 2-12", and 1-15" speaker combinations. The Alpha 112 comes with two cabinet options, infinite baffle or ported enclosure. Reverb is standard on the Alpha 210R and 212R and is optional on the 112.

Bass control enables the operator to vary the Bass equalizer response.

Mid Freq control enables the operator to vary mid control center frequency from 300 Hz to 3 kHz.

Level control adjusts the overall output from the preamp to the power amp.



Drive control changes the gain or amplifying ability of the preamp. 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 characteristics. With increasing amount of overdrive, the sustain is emphasized by the dynamic C-MOS compression.

Mid control enables the operator to vary the mid equalizer response.

Treble control enables the operator to vary the treble equalizer response.

Reverb control adds reverberation effect which is independent of the tone controls

brite **normal**



inputs

Normal—for use when no additional brilliance is required.

Brite—if additional brilliance is required the Brite input will add 10db boost starting at 6 kHz.



power

POWER

This control switches the unit's AC Power on and off.

Specifications

ALPHA SELF-CONTAINED AMPLIFIERS

Preamp input (normal) 27K ohms
 Preamp input (brite) 47K ohms
 Accessory to 150 ohms
 (Preamp out)
 Accessory from 10K ohms
 (Power amp in)
 Headphone out 330 ohms stereo
 165 ohms mono

POWER OUTPUT

..... 50 watts rms
 @8 ohm load

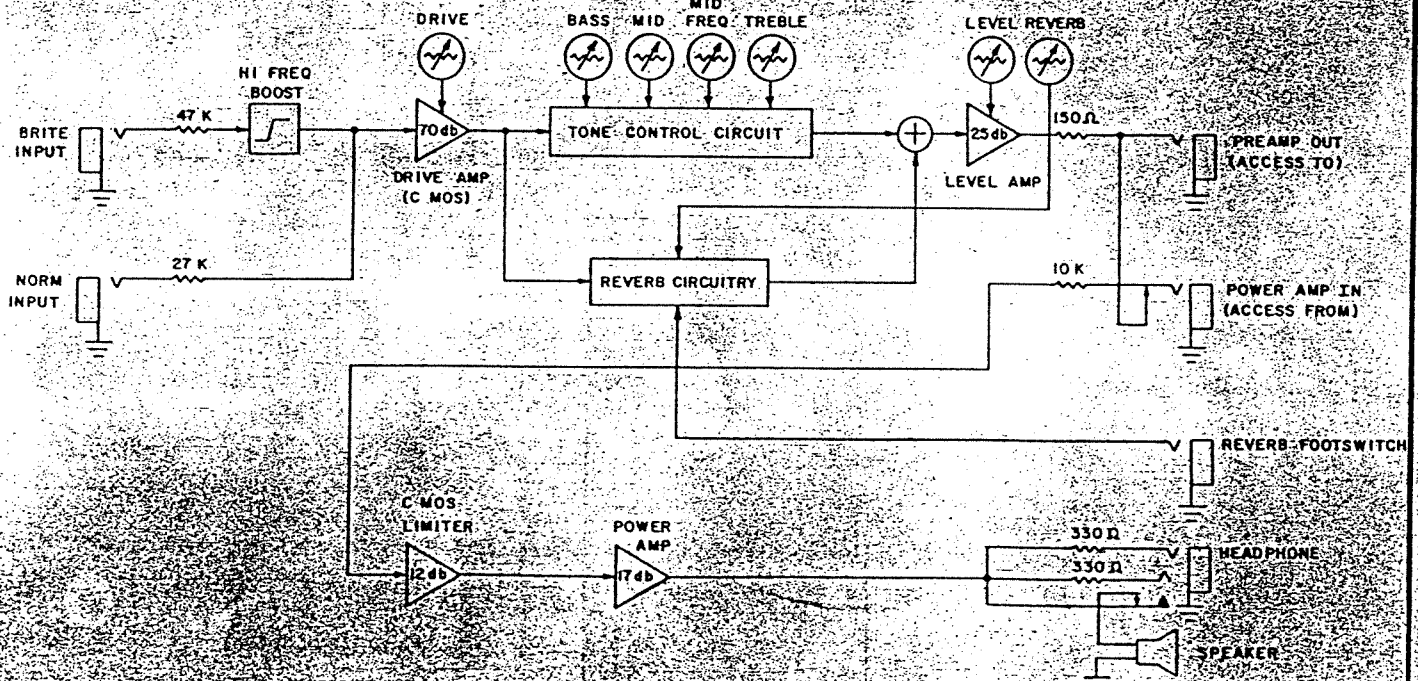
SYSTEM GAIN

..... 124 db

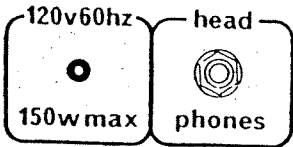
WARRANTY

..... 1 year limited

Block Diagram

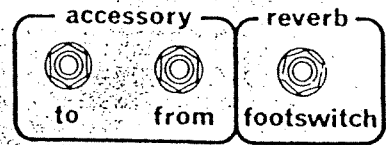


ACCESSORY PATCHING



serial

CAUTION: TO PREVENT ELECTRICAL SHOCK DO NOT OPEN. no user serviceable parts inside. refer servicing to authorized SUNN service center.

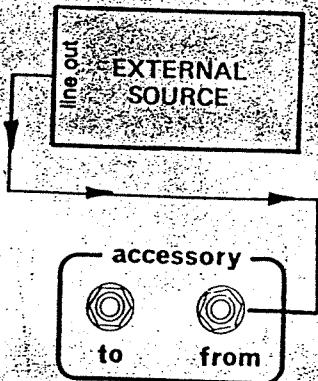


NOTICE before warranty service consumer must complete & mail the warranty application. affix validation sticker here.

made in U.S.A. by
 Sunn Musical Equipment Co.
 a hartzell corporation company

Some of the more common patching situations of the Alpha Series are illustrated below.

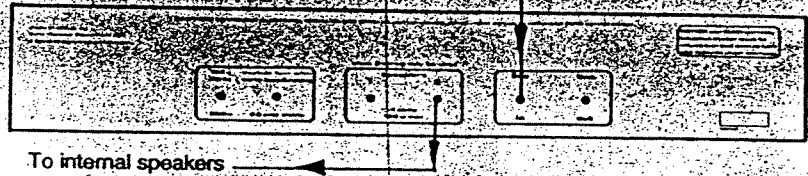
AS A POWER AMPLIFIER



Occasionally, you may find it necessary to use your Alpha Self-Contained Amplifier as a power amp. In this mode only the program from your external unit will be amplified to the speaker.

ADDITIONAL POWER

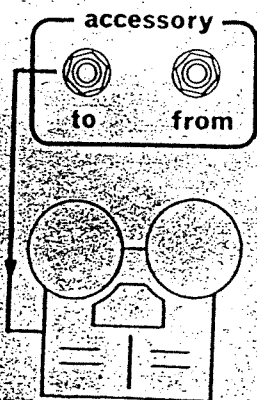
BETA POWER +



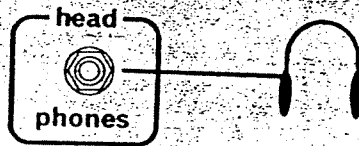
The accessory "to" output is utilized for driving additional power amplifiers from your Alpha System. Calibrated for the Beta Power + or Alpha Slave, but still compatible with other slave amplifiers.

ACCESSORIES

RECORDING

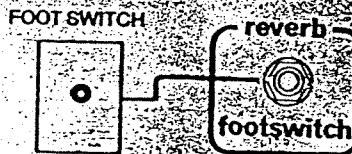


The accessory "to" output provides ample level for most recorders and decks.

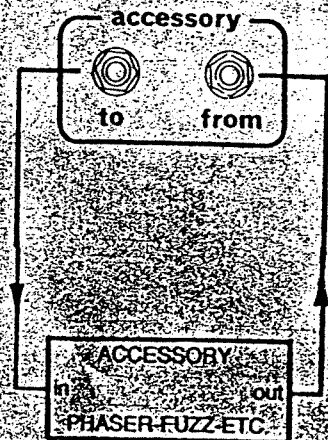


The headphone jack is made to accept most stereo or mono headphones. When headphones are used, the speaker or speakers will be disabled.

EFFECTS PATCHING



Remote footswitch allows operator to turn on or off the reverb in the system, from any desired location.



The accessory "to" output provides easy patching of external accessories such as echo, phaser, and etc.