



FINAL PHASE

OWNER'S MANUAL (version 1)

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## A/DA FINAL PHASE OPERATING NOTES

The A/DA FINAL PHASE represents the latest in phase shifter technology. The FINAL PHASE is capable of producing a very broad range of sound colorations, dramatically enhancing the effect of any amplified musical instrument, voice or percussive instrument.

Electronic phasing takes place when a signal is divided, one half slightly delayed, then remixed with the original signal. This "delay" only occurs at certain frequencies and is referred to as phase shift (when the delay occurs at all frequencies, the effect is called flanging). When the phase shift of the delayed signal differs by 180 degrees relative to the original signal, a cancellation, called a notch, is generated when they are remixed. The FINAL PHASE generates 5 notches, which when moved back and forth across the sound spectrum, for example, produces the classic rotating speaker effect

## HOOK-UP

1. The cord from the instrument or microphone plugs into the IN jack.
2. The cord from the amplifier plugs into the OUT jack.
3. Optional AC/DC converter: The special coax plug on the AC/DC power converter plugs into the jack marked POWER. Use A/DA PS-8001 power converter only. There is no need to remove batteries when using the converter, since they are automatically bypassed.
4. The CONTROL input accepts either the A/DA CONTROL PEDAL A or a 0 volt to +5 volt control voltage. In either case the connection should be made with a 3-conductor stereo-type cable. To obtain maximum phasing range from the CONTROL input, set the RANGE CONTROL knob fully counterclockwise. This setting defeats the automatic sweep functions (SWEEP RATE and SWEEP MODULATION). However, they may be mixed with the signal applied to the CONTROL input by turning the CONTROL RANGE slightly clockwise.

## CONTROLS

SWEEP RATE	Controls the speed at which the phase Shift. Effect moves up and down the sound spectrum.
SWEEP MODULATION	A variable speed oscillator that adds to or modulates the main sweep, producing shimmering, vibrato-like effects, asymmetrical sweep patterns, multiple phaser effects, modulated sweep, syncopated beats, etc.
RANGE CONTROL	Determines the limits of the automatic sweep functions (SWEEP RATE and SWEEP MODULATION), with maximum range at the full clockwise setting. When using the CONTROL input (as mentioned above), the RANGE CONTROL gives maximum range to the CONTROL input when set to full counter-clockwise position.
INTENSITY	A regenerative feedback control that adds emphasis (peaking) to the phasing effects. Sounds ranging from hollow tubes to intensified "wahs" are obtainable.
OVERDRIVE	Adds a variable amount of distortion to the input signal. Sounds ranging from a thunderous "jet-phase lead" to subtle, smooth "tube amp" harmonic distortion are easily produced.

## FOOT SWITCHES

IN/OUT	Switches electronics of FINAL PHASE into or out of operation.
OVERDRIVE	Engages or bypasses the electronics of distortion. Responds only when electronics of phase shifter are operating.

