



▶ A/DA ◀

A/DA FINAL PHASE OWNER'S MANUAL

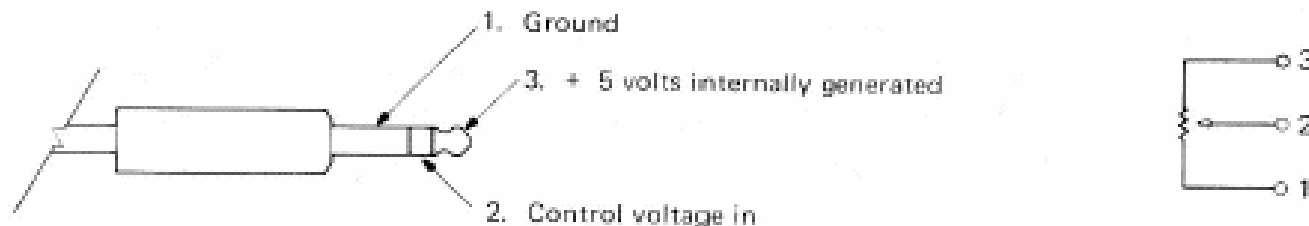
The ADA FINAL PHASE represents the latest in phase shifter technology. The FINAL PHASE is capable of producing a very broad range of sound colorations, dramatically enhancing the effect of any amplified musical instrument, voice or percussive instrument.

Electronic phasing takes place when a signal is divided, one half slightly delayed, then remixed with the original signal. This "delay" occurs more at certain frequencies than at other frequencies and is referred to as phase shift (when the delay occurs equally 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.

The difference between the FINAL PHASE and all other phase shifters is the "Q," or the quality factor of the notches. The sides of the notches are two times steeper than the notches in other phase shifters, and therefore a distinctive and more resonant, intense effect can be achieved with the FINAL PHASE.

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. 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.
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 counter-clockwise. 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.

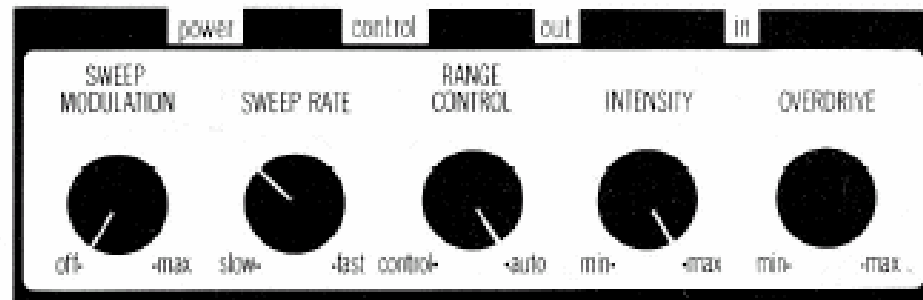
OVERDRIVE Engages or bypasses the electronics of distortion. Responds only when electronics of phase shifter are operating.

SPECIFIC APPLICATIONS

Please note that knobs without pointers have little or no effect for the given setting.

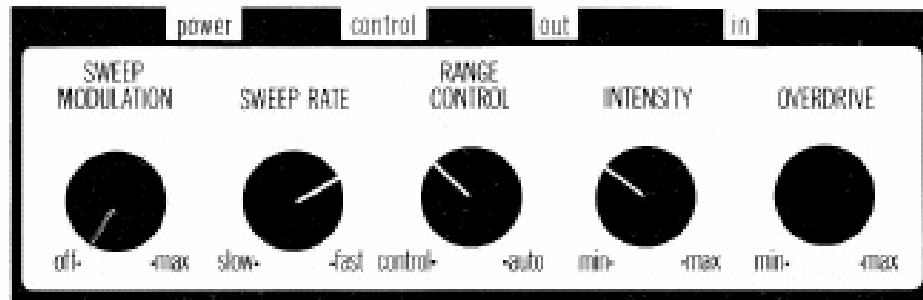
Maximum Sweep Range

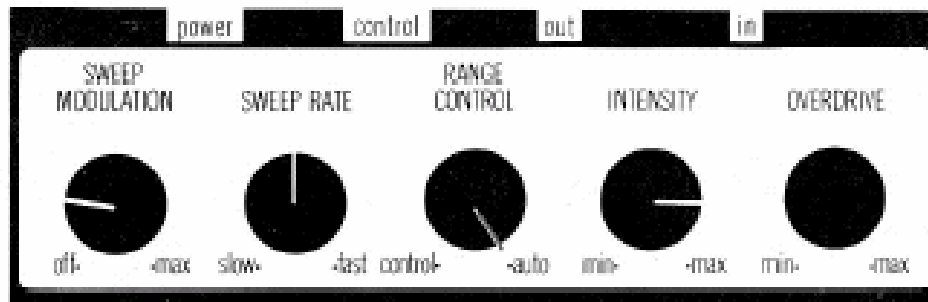
The phasing effect moves up and down over the full range of the FINAL PHASE. The SWEEP RATE controls the speed of the sweeping motion. OVERDRIVE is switched out.



Vibrato and Leslie

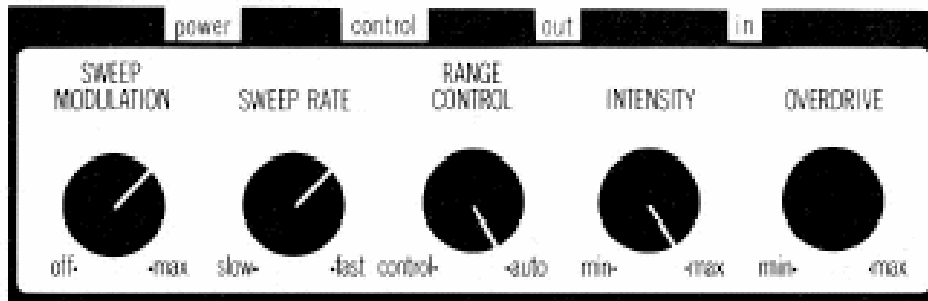
Slow and fast Leslie effects move to fast vibrato by rotating the SWEEP RATE knob more clockwise. For more subtle effects turn the RANGE CONTROL more counter-clockwise.





Shimmering Sweep

The SWEEP MODULATION adds a third dimension to the normal up and down sweep.

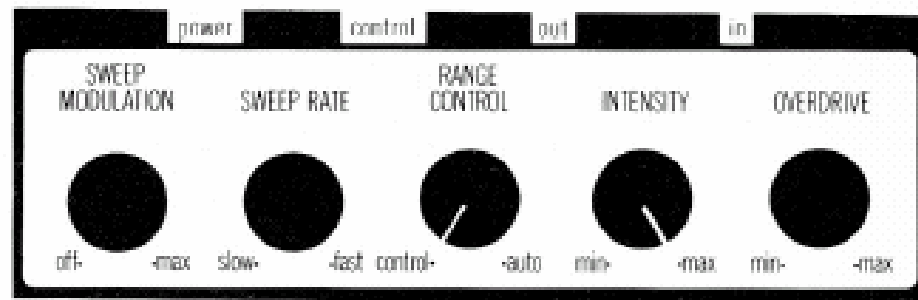


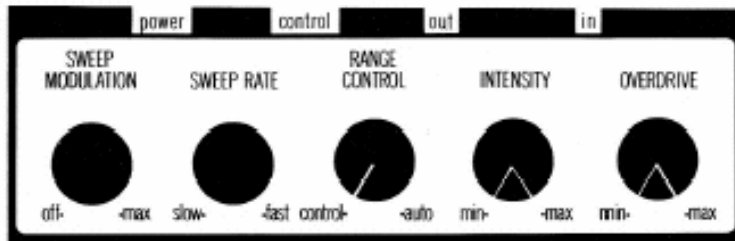
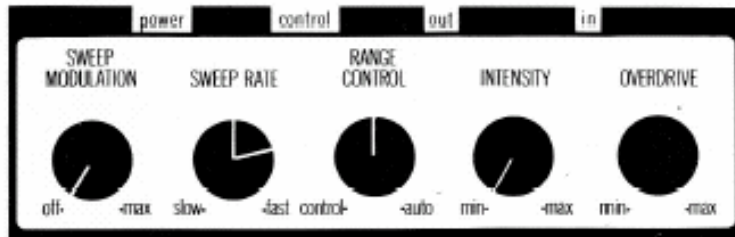
Asymmetric and Random Sweep Patterns

Randomly occurring jumps and beat often simulating two phase shifters in series can be created.

Multiple-pole Filter using the CONTROL PEDAL A or an externally applied Voltage Source.

By “freezing” the sweep, the FINAL PHASE can be used as a filter to emphasize certain tones and to deemphasize others. By “pumping” the CONTROL PEDAL A with the INTENSITY knob set full clockwise, wah-wah effects can be obtained.





Simulating a 4-stage Phase Shifter

By backing-off on the FINAL PHASE's powerful controls, the sound of earlier phase shifters can be simulated.

OVERDRIVE Only

Although OVERDRIVE may be switched in for any of the preceding settings, the OVERDRIVE can be used alone. Extra coloration is achieved with the INTENSITY control. Be sure that the IN/OUT switch is "in."

SPECS

Input impedance	1 megohm
Output impedance	300 ohms
Maximum input level	6 dBm
Sweep rate	12 Hz to 30 seconds
Modulation rate	20 Hz to 2 seconds
"Q"	1
Control voltage range	0 to +5 volts

WARRANTY AND SERVICE INFORMATION

The A/DA Final Phase is warranted against defects in material and workmanship for a period of one year from date of purchase. A/DA will replace defective parts and make necessary repairs at no charge if factory inspection reveals faulty workmanship or material. This warranty does not cover damage due to misuse, accident or neglect. A/DA retains the exclusive right to make such determination on the basis of factory inspection. Products returned to the factory must be shipped prepaid. This warranty remains valid only if repairs are performed by A/DA, and provided that the serial number on the unit has not been defaced or removed, and the dealer-authorized warranty card is filed with A/DA within 15 days of original purchase. This warranty is expressly in lieu of all other warranties either expressed or implied.

ANALOG/DIGITAL ASSOCIATES

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