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> Behringer DUAL-PHASE Analog Phaser Pedal Instruction Manual

## Behringer DUAL-PHASE

# Behringer DUAL-PHASE Analog Phaser Pedal Instruction Manual

Model: DUAL-PHASE | Brand: Behringer

## 1. INTRODUCTION

The Behringer DUAL-PHASE is an authentic analog dual-phase shifter pedal designed to recreate the classic 70s phaser sound. Utilizing 12 optocouplers, this pedal delivers a rich, intense, and natural phasing effect. It features two independent sweep generators and two phaser sections (A and B), offering extensive control over your sound. With CV control capabilities and a robust metal chassis, the DUAL-PHASE is a versatile addition to any musician's setup.

## 2. SAFETY INSTRUCTIONS

- **Power Supply:** Use only a 9V DC, center-negative power adapter. Ensure the adapter provides sufficient current (at least 670mA, 1A recommended). Using an incorrect power supply can damage the unit and void the warranty.
- **Moisture:** Do not expose the unit to rain, moisture, or any liquids.
- **Ventilation:** Ensure adequate ventilation around the unit. Do not block ventilation openings.
- **Cleaning:** Clean the unit only with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Placement:** Place the unit on a stable, flat surface. Avoid extreme temperatures or direct sunlight.
- **Servicing:** Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel.

## 3. PRODUCT OVERVIEW

The DUAL-PHASE pedal features a comprehensive set of controls for shaping your phaser effects. Below is an overview of the front panel controls and rear panel connections.

### 3.1 Front Panel Controls



Figure 1: Behringer DUAL-PHASE Analog Phaser Pedal - Front Panel Overview

**1. SWEEP GENERATOR 1:** Controls for the first sweep generator.

- **RATE:** Adjusts the speed of the phaser sweep for Generator 1.
- **SHAPE:** Selects the waveform shape for the sweep (e.g., sine, triangle).
- **CV:** Switch to enable external Control Voltage input for Generator 1 rate control.



Figure 2: Close-up of Sweep Generator 1 controls (RATE, SHAPE, CV switch).

**2. PHASOR A:** Controls for the first phaser section.

- **DEPTH:** Adjusts the intensity or range of the phasing effect for Phasor A.
- **FEEDBACK:** Controls the amount of phased signal fed back into the input, creating more resonant and intense effects.

**3. SWEEP GENERATOR 2:** Controls for the second sweep generator.

- **RATE:** Adjusts the speed of the phaser sweep for Generator 2.
- **SHAPE:** Selects the waveform shape for the sweep.

**4. PHASOR B:** Controls for the second phaser section.

- **DEPTH:** Adjusts the intensity or range of the phasing effect for Phasor B.
- **FEEDBACK:** Controls the amount of phased signal fed back into the input for Phasor B.

**5. SWEEP SYNC:** Controls for synchronizing and blending the sweep generators.

- **NORM/REV Switch:** Changes the phase relationship between the two sweep generators.
- **GEN 1/GEN 2 Switch:** Selects which generator controls the overall sweep.
- **SWEEP Knob:** Blends the output of the two sweep generators.

**6. PHASOR B INPUT (IN A/D Switch):** Determines the input source for Phasor B. When set to 'IN A', Phasor B receives its input from the output of Phasor A, creating a series effect. When set to 'D', Phasor B receives a direct input, allowing for parallel processing or dual-channel use.

**7. Footswitches (A & B):** Engage or bypass the respective phaser sections.

## 3.2 Rear Panel Connections

The rear panel typically includes the following connections:

- **INPUT:** 1/4" TS jack for connecting your instrument or audio source.
- **OUTPUT:** 1/4" TS jack for connecting to an amplifier or next effect pedal.
- **POWER INPUT:** 9V DC input for connecting the power adapter.
- **CV INPUT:** 1/4" TS jack for external 5V Control Voltage input to modulate parameters.

## 4. SETUP

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1. **Power Connection:** Connect a 9V DC, center-negative power adapter (minimum 670mA, 1A recommended) to the POWER INPUT jack on the rear panel.
2. **Audio Input:** Connect your instrument (e.g., guitar) or audio source to the INPUT jack using a standard 1/4" TS instrument cable.
3. **Audio Output:** Connect the OUTPUT jack to your amplifier, mixer, or the input of another effect pedal using a standard 1/4" TS instrument cable.
4. **CV Control (Optional):** If using external CV control, connect a 5V Control Voltage source to the CV INPUT jack. Ensure the CV switch for the desired sweep generator is engaged.
5. **Initial Settings:** For a basic phaser effect, set all DEPTH and FEEDBACK knobs to mid-range (5), and adjust the RATE and SHAPE knobs on Sweep Generator 1 to your preference. Ensure the PHASOR B INPUT switch is set to 'IN A' for a combined effect, or 'D' for independent operation.

## 5. OPERATING INSTRUCTIONS

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The DUAL-PHASE offers a wide range of phasing effects. Experiment with the controls to discover its full potential.

- **Engaging the Effect:** Press the A footswitch to engage Phasor A. Press the B footswitch to engage Phasor B. The corresponding LED will illuminate when active.
- **Adjusting Sweep Speed:** Use the RATE knobs on SWEEP GENERATOR 1 and SWEEP GENERATOR 2 to control the speed of the phaser sweep.
- **Changing Sweep Shape:** The SHAPE switches allow you to select different waveform shapes for the sweep, altering the character of the modulation.
- **Controlling Effect Intensity:** The DEPTH knobs for PHASOR A and PHASOR B adjust how pronounced the phasing effect is. Higher settings result in a deeper, more dramatic sweep.
- **Adding Resonance:** The FEEDBACK knobs for PHASOR A and PHASOR B introduce a portion of the output signal back into the input, creating a more resonant,