

**iamond**  
**PHASE**

DBL



**Diamond**

**PHASE**

**USER MANUAL**

# WELCOME TO THE CLUB

Thank you for choosing the Diamond Phase. Inspired by the original Diamond PSH-1 from 2008, this pedal is a return to the smooth, musical phasing that helped define the Diamond sound – with updated features and a compact footprint for today's pedalboards.

Built around a fully analog signal path and six carefully selected and matched JFETs, the Diamond Phase delivers rich, organic modulation. A selectable 2-, 4-, or 6-stage architecture, an enhanced feedback circuit, and thoughtful performance features make the Diamond Phase a staple on any pedalboard.

The Diamond Phase is designed to be intuitive and expressive. Every control interacts musically, allowing you to shape movement, depth, and character without losing clarity or definition. Whether used as a subtle, always-on enhancer or as a featured modulation effect, the Diamond Phase responds naturally to your playing and your signal chain.



# PHASE CONTROLS

## OUTPUT JACK

Send audio to your amplifier or next pedal from here.

## POWER INPUT

Connect your 2.1mm center negative 9-15VDC power source here. Internally boosted and regulated to 15V

## INPUT JACK

Send audio from your instrument to here.

## LEVEL KNOB

Controls the output volume of the effect. Use to match the bypassed signal level or can be set to boost the output if desired.

LEVEL  
SPEED

## SPEED KNOB

Controls the rate of the phase sweep from 0.1 Hz (very slow) to 10 Hz (fast modulation)

## REGEN KNOB

Controls the amount of feedback in the phase circuit. Lower settings produce smooth, traditional phasing while higher settings emphasize notches and create more resonant textures.

REGEN  
DEPTH

## DEPTH KNOB

Adjusts the intensity of the phase effect with lower settings providing gentle, understated modulation and higher settings increasing sweep depth and movement.

## LED STATUS

A RED LED indicates that your pedal is Active while a GREEN LED indicates that Doubler Mode is active.

STAGES  
2 | 4 | 6

## STAGES TOGGLE SWITCH

- 2-Stage - Up Position: Light modulation and subtle movement
- 4-Stage - Middle Position: Classic, traditional phasing
- 6-Stage - Down Position: Throatier, more colorful phasing with deeper character

The LED will flash at the rate of the LFO.

ON

DBL

## ON | OFF FOOTSWITCH

Turns the pedal on and off by tapping.

Engages the DOUBLER when held down to double the speed of the Phase.

Each mode offers a distinct feel while retaining the smooth, musical response the Diamond Phase is known for.

 **Diamond**  
PHASE



# FEATURE SET - FUNCTIONS

## Startup Routine

When initially powered up, the Bypass LED will blink back and forth to indicate that the system is booting up. You can access and modify Doubler operations while the LED is blinking. At the end of the boot sequence the LED will flash twice in a given color to indicate which option is selected.

## Footswitch Functions

The ON|DBL footswitch controls the bypass and doubler functions. The Phase automatically remembers the bypass state so next time you power up your pedal board it will be in the same state you left it. Tap the footswitch to turn the effect on or off.

## Doubler Functions

Holding the ON|DBL footswitch down engages the doubler mode which is used to double the LFO frequency. The doubler function can be set to operate as a momentary or latching function, or can be disabled completely. The LED will turn green to indicate doubler mode.

If set to momentary the doubler function will operate as long as the footswitch is held down, doubling the LFO frequency and will return to normal as soon as it is released. If set to latching mode holding the footswitch down will toggle it on, holding it again will turn it off. If set to disabled, the doubler function will not operate.

To change the doubler momentary or latching function, hold down the tap footswitch while applying power to the Phase. You may have to repeat this step to cycle through the 3 available operation modes. The ON|OFF LED will flash **green for momentary mode**, **red for latching mode**, or **yellow to indicate the Doubler function bypass**.

# INTERNAL JFET BIAS TRIMMER

Inside the Diamond Phase is an internal trimpot used to set the JFET bias for the phaser stages. This trim is factory-set for optimal performance. Under normal use, no adjustment is required.

## Advanced Adjustment (Optional)

For experienced users and technicians, the JFET bias trim allows fine-tuning of the phasing response. Calibration should be performed using the following settings:

- Speed: Medium-slow
- Depth: 50%
- Regen: Maximum

Slowly adjust the internal trimpot while listening to the modulation.

## Adjustment goal:

- Achieve an even, centered sweep
- Maintain smooth, consistent modulation
- Avoid oscillation or runaway behavior from the feedback circuit at higher depth settings

Make very small adjustments and allow the circuit to settle between changes.

## Important Notes

- Disconnect power before opening the pedal
  - Use a non-conductive trimming tool
  - Mark the factory position before making changes
  - Return the trim to its original setting if results are undesirable
- Improper adjustment may affect performance and is not covered under warranty.



# WARRANTY COVERAGE

All Diamond product(s) purchased through the [diamondpedals.com](http://diamondpedals.com) website or an authorized Diamond retailer comes with a three (3) year warranty against failure resulting from defective parts, and/or faulty workmanship. Cosmetic flaws or issues related to wear and tear are not covered.

The warranty applies only to the original purchaser of the product and is not transferable. Warranty coverage terminates three years after the date of purchase. While a product is under warranty, the product will be repaired free of charge. The owner of the product will be responsible for both shipping to and from Diamond Pedals HQ located in Montreal, Quebec, Canada. Warranty coverage will be automatically canceled should the product be tampered with, modified, damaged through misuse and/or abuse, repaired by an unauthorized third-party, or damaged through failure to follow our operating instructions.

USE OF AN IMPROPER POWER SUPPLY AUTOMATICALLY VOIDS THE WARRANTY.

# PRODUCT SPECIFICATIONS

Input Impedance:	> 1M $\Omega$
Output Impedance:	< 10K $\Omega$
Speed Range:	0.1Hz - 10Hz
Switching:	Relay True Bypass
Power Requirements*:	9-15VDC Negative Tip, 2.1mm Barrel Jack
Current Draw @ 9V:	80mA
Dimensions:	4.8 x 2.64 x 1.58"
Weight:	300g



QUESTIONS?

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