

Electro-Harmonix SUPERPULSAR

Electro-Harmonix Super Pulsar Stereo Tap Tremolo Pedal User Manual

Model: SUPERPULSAR

INTRODUCTION

The Electro-Harmonix Super Pulsar is an advanced stereo tap tremolo pedal offering extensive control over modulation waveforms, rhythmic patterns, and signal routing. This manual provides detailed instructions for setup, operation, and maintenance to help you unlock its full potential.

PACKAGE CONTENTS

- Electro-Harmonix Super Pulsar Stereo Tap Tremolo Pedal
- 9.6VDC-200mA Power Adapter
- User Manual



Image: The Electro-Harmonix Super Pulsar pedal box, indicating the product packaging.

PRODUCT OVERVIEW

The Super Pulsar features a comprehensive control panel and versatile input/output options.



Image: The Electro-Harmonix Super Pulsar pedal connected with input and output cables, showcasing its front panel controls and jacks.



Image: A detailed top-down view of the Electro-Harmonix Super Pulsar pedal, highlighting all knobs, switches, and LED indicators.

SETUP

Power Connection

Connect the included 9.6VDC-200mA power adapter to the 9V jack on the pedal. Ensure the power source matches the pedal's requirements.

Audio Connections

- **Mono Input/Output:** For standard mono operation, connect your instrument to the MONO/L INPUT and your amplifier to the MONO/L OUTPUT.
- **Stereo Output:** For stereo effects, connect your instrument to the MONO/L INPUT and connect two amplifiers or channels to the MONO/L OUTPUT and R OUTPUT.
- **Stereo Input/Output:** For full stereo processing, connect your stereo source to the MONO/L INPUT and R INPUT, and connect to your stereo amplifier setup via the MONO/L OUTPUT and R OUTPUT.

External Control (Optional)

The pedal supports external tap tempo and clock synchronization via the TAP/CLK IN jack. An expression pedal can be connected to the EXP jack for real-time control over various parameters.

OPERATING INSTRUCTIONS

Controls Overview

- **VOLUME Knob:** Adjusts the overall output level of the tremolo effect.
- **RT. PHASE Knob:** Controls the phase relationship between the left and right channels in stereo modes, from 0 to 360 degrees.
- **WAVE Knob:** Selects the modulation waveform (sine, triangle, pulse) or rhythmic patterns.
- **SHAPE Knob:** Modifies the shape of the selected waveform.
- **DEPTH Knob:** Adjusts the intensity or depth of the tremolo effect.
- **RATE Knob:** Sets the speed of the tremolo modulation.
- **ENV DEPTH Mini-Knob:** Controls the sensitivity of the envelope follower for depth modulation.
- **ENV RATE Mini-Knob:** Controls the sensitivity of the envelope follower for rate modulation.
- **WAVE INVERT Switch:** Inverts the tremolo waveform.
- **BEAT Switch:** Toggles the beat indicator LED.
- **TAP DIVIDE Buttons:** Select rhythmic subdivisions for tap tempo.
- **EXP MODE Switches:** Assigns the expression pedal to control SHAPE, DEPTH, RATE, PHASE, or VOL.
- **xRATE Switch:** Engages a high-speed mode for ring modulation effects.

Footswitch Functions

- **TAP Footswitch:** Tap twice or more to set the tremolo rate.
- **MODE/PRESET Footswitch:** Toggles between modes or cycles through saved presets.
- **BYPASS Footswitch:** Engages or bypasses the tremolo effect.

Key Features and Modes

Adjustable Modulation Waveforms

The WAVE knob allows selection of classic sine, triangle, and pulse waveforms. Additionally, nine rhythmic patterns can be selected and customized.

Tap Tempo and Tap Divide

Synchronize the tremolo rate with your music using the TAP footswitch. The TAP DIVIDE buttons allow for precise rhythmic subdivisions.

Stereo Phase Adjustment

The RT. PHASE knob enables fine-tuning of the right channel's phase relative to the left, creating dynamic stereo movement.

Envelope Follower Modulation

The ENV DEPTH and ENV RATE controls allow the tremolo's depth and rate to respond dynamically to your playing dynamics.

Preset Storage and Recall

Save and recall up to eight customized preset programs for instant access to your favorite tremolo settings.

Expression Pedal Control

Connect an expression pedal to control parameters like Rate, Depth, Shape, Phase, or Volume in real-time for expressive performance.

Ring Modulation (xRATE)

Engage the xRATE switch to push the tremolo into extreme speeds, creating unique ring modulation effects.

Your browser does not support the video tag.

Video: Demonstrates the various features and sounds of the Electro-Harmonix Super Pulsar Stereo Tap Tremolo pedal, including waveform adjustments, tap tempo, and expression pedal control.

Reverse Tremolo

By manipulating the WAVE and SHAPE controls, you can achieve a reverse tremolo effect, creating unique swells and backward-sounding textures.

Rhythmic Tremolo

The RHYTHM knob allows you to create complex rhythmic tremolo patterns with up to 16 steps, adding intricate movement to your sound.

SPECIFICATIONS

- **Item Weight:** 2.2 Pounds
- **Product Dimensions:** 5.75"L x 4.75"W x 2.5"H
- **Power Source:** Corded Electric (9V)
- **Signal Format:** Analog
- **Hardware Interface:** 1/4-inch Audio
- **Style:** Stereo Tap Tremolo
- **Model Number:** SUPERPULSAR
- **ASIN:** B00SJDUN5M

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the pedal. Avoid abrasive cleaners or solvents.
- **Storage:** Store the pedal in a cool, dry place away from direct sunlight and extreme temperatures.
- **Power:** Always use the specified power adapter to prevent damage.

TROUBLESHOOTING

- **No Sound:** Check all cable connections, power supply, and ensure the pedal is not in bypass mode. Verify instrument and amplifier volume levels.
- **Weak or Distorted Sound:** Ensure proper input levels. Check for faulty cables or power supply.

- **Tremolo Not Engaging:** Verify the BYPASS footswitch is engaged. Check DEPTH and RATE knob settings.
- **LEDs Not Lighting:** Confirm power supply is connected and functional.

WARRANTY AND SUPPORT

For warranty information and technical support, please visit the official Electro-Harmonix website or contact their customer service.

[Electro-Harmonix Official Website](#)