



— multidimensional phaser —

USER MANUAL

strymon®

Table of Contents

Knobs and Switches	
4-Stage Phaser Controls	3
6-Stage Phaser Controls	4
Rear Panel I/O and Control	5
Live Edit Functions	
Signal Routing	7
Stereo Spread	8
Barber Polarity (4-Stage)	10
MIDI Clock Sync	11
Respond/Ignore MIDI Expression	12
Power Up Modes	
Input Level	13
Bypass Mode	14
Configuring the EXP/MIDI Jack	15
External Controls	
Expression Pedal Setup	17
Favorite Switch Setup and Compare Mode	19
Configuring MultiSwitch Plus	20
Using MultiSwitch Plus	22
MIDI Functionality	
Configuring Zelzah to Use MIDI	23
Saving Presets in MIDI Mode	28
MIDI Specifications	29
Factory Reset	31
Features	32
Specifications	33
Sample Settings	35
Power Up Modes Quick Reference	37
Live Edit Controls Quick Reference	40
Strymon Non-Transferrable Limited Warranty	42

Knobs and Switches - 4-Stage Phaser Controls

SWEEP

Selects the style of the 4-Stage phaser.

classic: traditional rising and falling LFO* voicings that change in character as the **DEPTH** knob is adjusted

barber: continuously rising or falling LFO. Direction is set via live edit function (See [page 10](#) for details.)

env: touch sensitive envelope phasing effect with range set by the **SPEED** knob and sensitivity set by the **DEPTH** knob

SPEED

Adjusts the LFO rate.

MIX

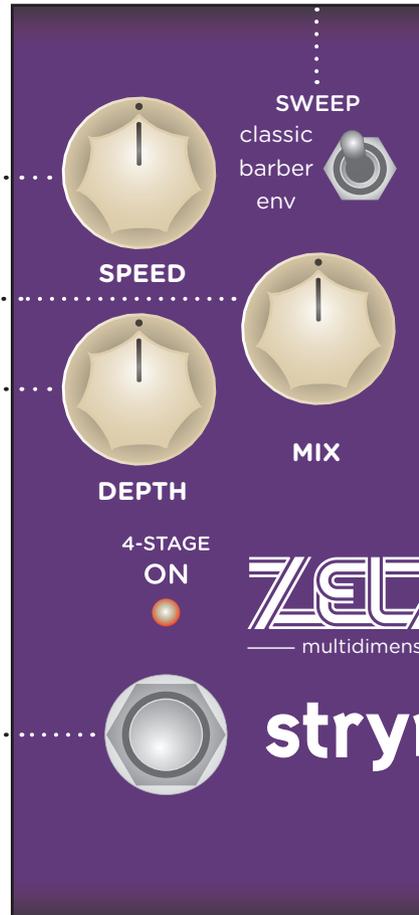
Adjusts the balance of the dry signal and the phase-shifted signal from mild phasing at min to 100% wet at max. Strongest phasing effect occurs with knob set at 12 o'clock (50/50 mix).

DEPTH

Adjusts the LFO range. A deeper phasing effect is achieved as the knob is turned clockwise.

ON

Engages the 4-Stage phaser circuit, independent of the 6-Stage phaser. **RED ON** LED indicates that the 4-Stage phaser is engaged. The LED pulses in time with the selected **SPEED** when engaged.



NOTE: *An LFO is a low frequency oscillator. It is used to modulate the filters that create the phasing effect.

Knobs and Switches - 6-Stage Phaser Controls

RESONANCE

Selects from three settings of regeneration that add color and intensity.

- off:** smooth response
- mild:** enhanced frequency peaks
- strong:** prominent frequency peaks



SPEED

Adjusts the LFO rate.

VOICE

Sweeps smoothly from pure phaser voicings on the left to flanger tones past 12 o'clock and chorus tones on the right.

DEPTH

Adjusts the LFO range. Higher settings result in more dramatic phase and/or time modulations as set by the **VOICE** knob.

ON

Engages the 6-Stage phaser circuit, independent of the 4-Stage phaser. **RED ON** LED indicates that the 6-Stage phaser is engaged. The LED pulses in time with the selected **SPEED** when engaged.

NOTE: When both the 4-Stage phaser and the 6-Stage phaser are disengaged, the bypass is either Buffered Bypass or True Bypass depending on the selected mode. (See [page 14](#) for details.)

Rear Panel I/O and Control

Audio Input Selector

MONO: Use with a mono input signal such as a guitar. Output is stereo. Use **OUT L** for mono connection.

STEREO: Use with a stereo input signal. Output is stereo.



IN

High impedance ultra low-noise discrete Class A JFET preamp input. Use a TRS stereo adapter/cable for stereo input.

OUTPUTS

Low impedance stereo outputs. Use **OUT L** for mono output.

Rear Panel I/O and Control (cont.)

USB

Used for MIDI control as well as for performing firmware updates.

9VDC

Use the included power supply or an adapter with the following rating:

- 9VDC center negative
- 300mA minimum



EXP / MIDI

Multifunction communication jack for external control of Zelzah's features and functions. Can be set to operate in one of the following modes (See [page 15](#) for details.):

Expression Pedal mode: Allows continuous control over any of the knobs in any direction with a standard TRS expression pedal.

(See [page 17](#) for details.)

Favorite mode: Allows you to recall a Favorite setting using a Strymon MiniSwitch.

(See [page 19](#) for details.)

Tap mode: Allows you to control the SPEED of the 6-stage phaser with TAP tempo using a Strymon MiniSwitch.

MIDI mode: Allows for the selection of three presets using a Strymon MultiSwitch Plus. Full MIDI functionality is available by sending MIDI Program Change messages via 1/4" MIDI connection using a Strymon Conduit or MIDI EXP cable. Up to 300 presets are available via MIDI.

(See [page 22](#) for MultiSwitch Plus or [page 23](#) for MIDI.)

Live Edit Functions – Signal Routing

Sets the signal routing configuration of the 4-Stage and 6-Stage sides of Zelzah.



- 1 Press and hold the **ON (6-STAGE)** footswitch. Once both LEDs flash, release the footswitch.
- 2 Turn the **VOICE** knob to select the routing option. The **ON (6-STAGE)** LED will change color to indicate the current status as the knob is turned.

VOICE knob selections:

Series: GREEN (default) - Output of the 6-Stage phaser feeds into the 4-Stage phaser when both sides are engaged.

Parallel: BLUE - Output of both the 4-Stage and 6-Stage phasers are mixed to the outputs while maintaining stereo independence of the LEFT and RIGHT signals.

Split: RED - Sets both the 4-Stage and 6-Stage phasers as mono effects that are sent to separate outputs. Output of the 4-Stage phaser goes to **OUT L**, and output of the 6-Stage phaser goes to **OUT R**. (For stereo output connections only.)

- 3 Press either footswitch to exit and store the routing option.

NOTE: The Signal Routing is saved per Favorite setting or preset.

Live Edit Functions – Stereo Spread

Widens the stereo image for each of the phasers when using stereo output.

- 1 Press and hold the **ON (6-STAGE)** footswitch. Once both LEDs flash, release the footswitch.



- 2 Turn the **DEPTH (4-STAGE)** knob to adjust the stereo spread of the 4-Stage phaser. Both LEDs will momentarily change color smoothly from **GREEN** (narrow) to **AMBER** (wide) to indicate the current status as the knob is turned.

Live Edit Functions – Stereo Spread (cont.)

- 3 Turn the **DEPTH (6-STAGE)** knob to adjust the stereo spread of the 6-Stage phaser. Both LEDs will momentarily change color smoothly from **GREEN** (narrow) to **AMBER** (wide) to indicate the current status as the knob is turned.



- 4 Press either footswitch to exit and store the Stereo Spread settings.

NOTE: Stereo Spread is not applied when Split Signal Routing is selected.

NOTE: The Stereo Spread settings are saved per Favorite setting or preset.

Live Edit Functions – Barber Polarity (4-Stage)

Sets the direction of the continuously rising or falling filter frequency of the 4-Stage barber phaser.

- 1 Press and hold the **ON (6-STAGE)** footswitch. Once both LEDs flash, release the footswitch.



- 2 Turn the **SPEED (4-STAGE)** knob to adjust the polarity of the 4-Stage phaser. The **ON (4-STAGE)** LED will change color to indicate the current status as the knob is turned.

Negative: RED - Continuously falling LFO.

Positive: BLUE (default) - Continuously rising LFO.

- 3 Press either footswitch to exit and store the Barber Polarity.

NOTE: The Barber Polarity setting is saved per Favorite setting or preset.

Live Edit Functions – MIDI Clock Sync

Determine whether Zelzah's LFOs will respond to MIDI Clock.

- 1 Press and hold the **ON (6-STAGE)** footswitch. Once both LEDs flash, release the footswitch.



- 2 Turn the **SPEED (6-STAGE)** knob to sync Zelzah with MIDI clock. Both LEDs will momentarily change color to indicate the current status as the knob is turned.

Off: RED (default) - Zelzah will not respond to MIDI clock.

On: BLUE - Zelzah will respond to MIDI clock.

NOTE: The MIDI Clock setting is saved per Favorite setting or preset.

NOTE: When sync'd to MIDI Clock, the **SPEED** knobs act as a multiplier or divider of the incoming clock tempo. The sync'd **SPEED** mult/div settings from left to right are: x4, x3, x2, x1 at 12 o'clock noon, 1/2, 1/3, 1/4.

- 3 Press either footswitch to exit and store the MIDI Clock settings.

Live Edit Functions – Respond/Ignore MIDI Expression

When set to MIDI mode, this setting determines whether Zelzah will respond to MIDI Expression CC# 100 to control the knob settings in the same manner as a TRS Expression pedal.

- 1 Press and hold the **ON (6-STAGE)** footswitch. Once both LEDs flash, release the footswitch.



- 2 Turn the **MIX** knob to select whether Zelzah will respond to MIDI Expression CC #100. Both LEDs will momentarily change color to indicate the current status as the knob is turned.
 - Off: **RED** – Zelzah will not respond to MIDI CC# 100.
 - On: **BLUE** (default) – Zelzah will respond to MIDI CC# 100.
- 3 Press either footswitch to exit and store the MIDI Expression mode.

NOTE: The MIDI Expression setting is saved per Favorite setting or preset.

Power Up Modes – Input Level

Select the input level to the effect processing.

- 1 Press and hold the **ON (6-STAGE)** footswitch while connecting power to the pedal. Once both LEDs flash, release the footswitch.



- 2 Turn the **SPEED (4-STAGE)** knob to select the Input Level mode. The **ON (4-STAGE)** LED will change color to indicate the current status as the knob is turned.

Instrument: GREEN (default) - Input headroom set for guitar level source.

Line: RED - Use with line level source, such as a keyboard or synthesizer. Adds 10dB of headroom.

- 3 Press either footswitch to store the Input Level mode and begin using Zelzah.

NOTE: Input Level is persistent across power cycles and is not saved per preset.

Power Up Modes – Bypass Mode

Setting Zelzah to Buffered Bypass mode preserves the high frequency response of your guitar signal through your pedal chain and long cable runs.

- 1 Press and hold the **ON (6-STAGE)** footswitch while connecting power to the pedal. Once both LEDs flash, release the footswitch.



- 2 Turn the **SPEED (6-STAGE)** knob to select True Bypass or Buffered Bypass. The **ON (6-STAGE)** LED will change color to indicate the current status as the knob is turned.

True Bypass: **GREEN** (default)

Buffered Bypass: **RED**

- 3 Press either footswitch to store the Bypass mode and begin using Zelzah.

NOTE: Bypass mode is persistent across power cycles and is not saved per preset.

Power Up Modes – Configuring the EXP/MIDI Jack

Set the functionality of the **EXP/MIDI** jack.

- 1 Press and hold the **ON (4-Stage)** footswitch while powering up the pedal. Once both LEDs flash, release the footswitch.



- 2 Turn the **SPEED (6-STAGE)** knob to select the function of the **EXP/MIDI** jack. **ON (6-STAGE)** LED will change color to indicate the current status as the knob is turned.

Expression Pedal mode: GREEN (default) - Allows continuous control over any of the knobs in any direction with a standard TRS expression pedal. *(See [page 17](#) for details.)*

Favorite mode: AMBER - Allows you to recall a Favorite setting using a Strymon MiniSwitch. *(See [page 19](#) for details.)*

Tap mode: RED - Allows you to control the **SPEED** of the 6-Stage phaser with TAP tempo using a Strymon MiniSwitch.

MIDI mode: BLUE - Allows for the selection of three presets using a Strymon MultiSwitch Plus. Full MIDI functionality is available by sending MIDI Program Change messages via 1/4" MIDI connection using a Strymon Conduit or MIDI EXP cable. Up to 300 presets are available via MIDI.

(See [page 22](#) for MultiSwitch Plus or [page 23](#) for MIDI.)

Power Up Modes – Configuring the EXP/MIDI Jack (cont.)



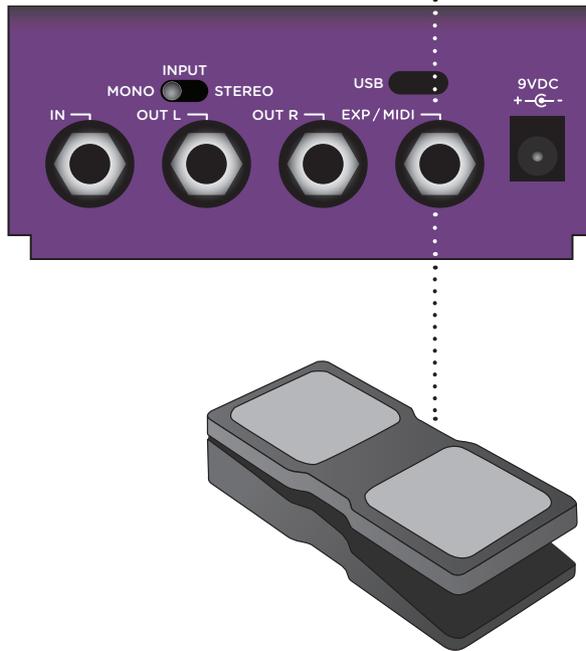
- 3 Press either footswitch to store the EXP/MIDI jack mode and begin using Zelzah.

NOTE: EXP/MIDI jack mode is persistent across power cycles and is not saved per preset.

External Control - Expression Pedal Setup

Use a TRS expression pedal to control the knobs of Zelzah.

- 1 Configure the **EXP/MIDI** jack for Expression mode.
(See [page 15](#) for configuration instructions.)
- 2 Connect an expression pedal to the **EXP/MIDI** jack of Zelzah using a TRS cable.



- 3 Press and hold both footswitches until both LEDs blink **GREEN**.
- 4 Rock the expression pedal to the HEEL position. Only the **ON (4-STAGE)** LED will blink **GREEN**.
- 5 Set the knob(s) you would like to control to the desired settings for the HEEL position of the expression pedal. Only the **ON (4-STAGE)** LED will turn **RED**.

External Control - Expression Pedal Setup (cont.)

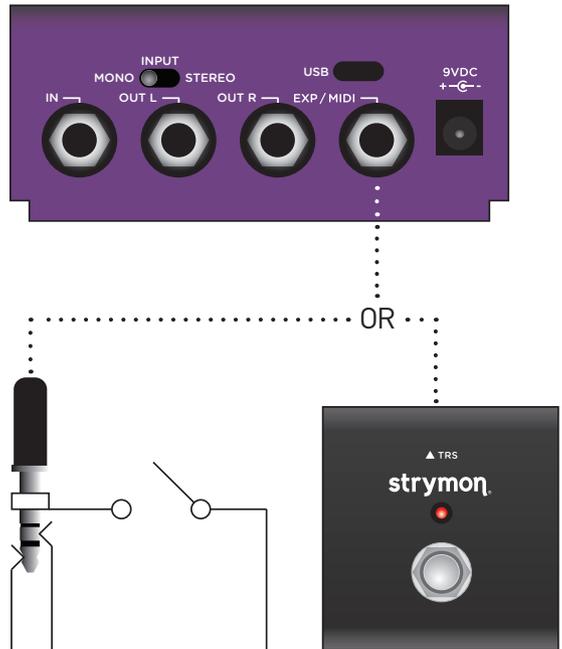
- 6 Now, rock the expression pedal to the TOE position. Now only the ON (6-STAGE) LED will blink **GREEN**.
- 7 Set the knob(s) you would like to control to the desired settings for the TOE position of the expression pedal. Only the ON (6-STAGE) LED will turn **RED**.
- 8 Press either footswitch to exit and store the expression pedal setup.

NOTE: Expression pedal assignment is saved per Favorite setting or preset.

External Control – Favorite Switch Setup and Compare Mode

Connect MiniSwitch or other external latching footswitch with a TRS cable to store and recall your favorite setting.

- 1 Configure the **EXP/MIDI** jack for Favorite mode.
(See [page 15](#) for more info.)
- 2 Connect an external switch with a TRS cable to the **EXP/MIDI** jack.
- 3 Dial in your desired sound.
- 4 To save your sound as the new Favorite setting, press and hold the **ON (4-STAGE)** footswitch for until the **ON (4-STAGE)** LED blinks **BLUE**. Press the **ON (4-STAGE)** footswitch again to save the Favorite setting.



Step on the external footswitch to toggle between your Favorite setting and the current setting on Zelzah.

COMPARE MODE

With the Favorite engaged, as a knob or switch is adjusted, the **ON (4-STAGE)** LED flashes **GREEN** when the current knob or toggle switch position matches the setting of the saved Favorite setting.

NOTE: Along with the knobs and toggle switches on the face of the pedal, all Live Edit settings and the bypass state of 6-Stage and 4-Stage are stored with the Favorite setting. Power Up modes are not stored with the Favorite setting.

NOTE: Saving presets works differently when using MIDI.
(See [page 28](#) for more details.)

NOTE: The Favorite setting is stored at MIDI program change location 0.

External Control – Configuring MultiSwitch Plus

Configure Zelzah and MultiSwitch Plus for remote access to three additional presets.

- 1 Press and hold the **ON (4-STAGE)** footswitch while connecting power to the pedal. Hold until both LEDs stop blinking.
- 2 Turn the **SPEED (4-STAGE)** knob all the way counter-clockwise to set the MIDI channel to Channel 1. The **ON (4-STAGE)** LED should be **GREEN**.
- 3 Turn the **MIX** knob to select any of the following options:
 - Send MIDI CC, PC, and Other Data: **WHITE**
 - Send MIDI CC and Other Data: **GREEN**
 - Send MIDI PC and Other Data: **PURPLE**
 - Send Other Data: **AMBER**
- 4 Turn the **SPEED (6-STAGE)** knob all the way clockwise to set the EXP/MIDI jack to MIDI mode. The **ON (6-STAGE)** LED should be **BLUE**.
- 5 Press either footswitch to exit and store the MIDI channel, the MIDI OUTPUT setting, and the EXP/MIDI jack mode.

External Control – Configuring MultiSwitch Plus (cont.)

- 6 Connect a TRS cable to the EXP/MIDI jack on Zelzah.



- 7 Press and hold the A footswitch on MultiSwitch Plus while connecting the TRS cable to MultiSwitch Plus to select Preset mode on MultiSwitch Plus.



External Control – Using MultiSwitch Plus

Selecting and saving Zelzah presets using MultiSwitch Plus.



NOTE: Footswitches A, B, and C on MultiSwitch Plus correspond to MIDI program changes 1, 2, and 3.

- 1 Step on a switch that is not illuminated to recall the corresponding preset.
- 2 Step on an illuminated switch to bypass Zelzah.

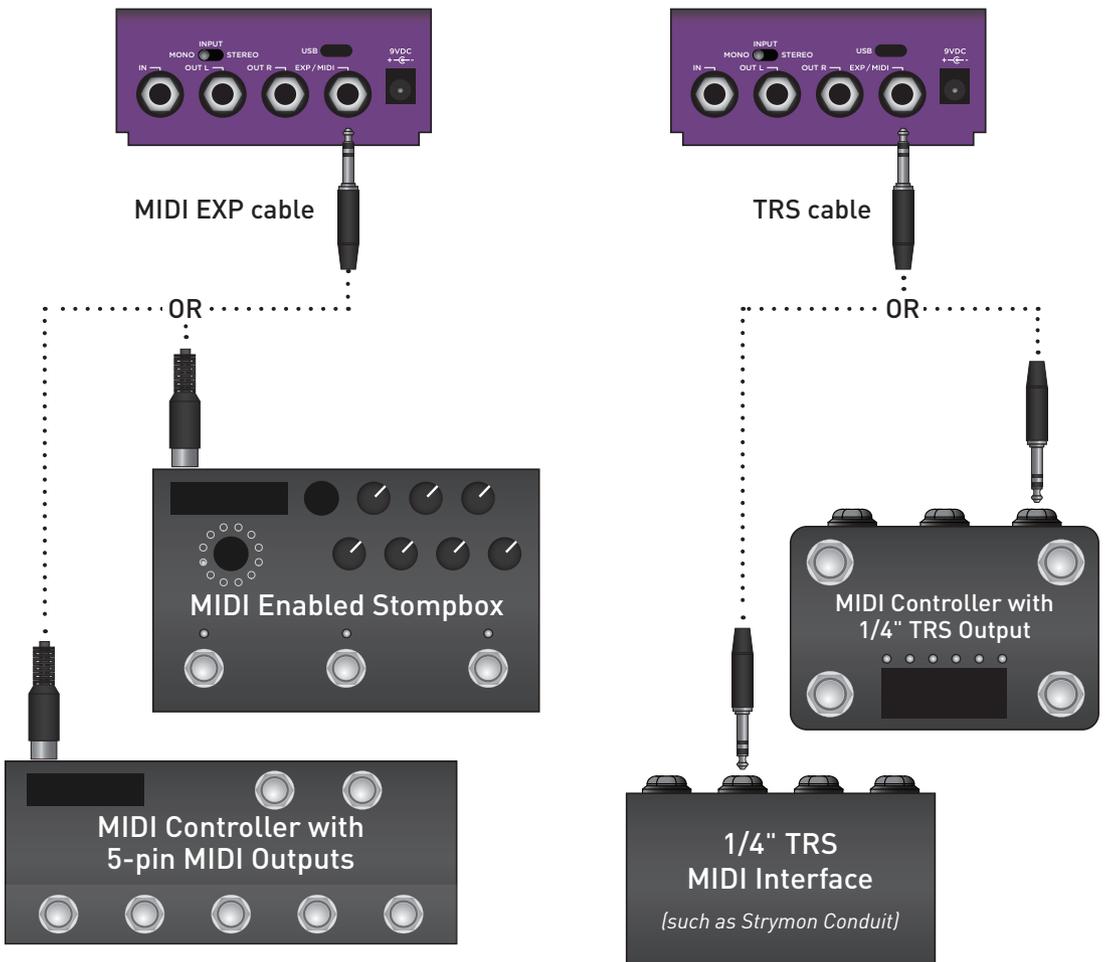
Saving Zelzah presets with MultiSwitch Plus:

- 1 Dial in the sound that you would like to save as your preset on Zelzah.
- 2 Press and hold the **ON (4-STAGE)** footswitch on Zelzah until the **ON (4-STAGE)** LED blinks **BLUE**.
- 3 Press the **A**, **B**, or **C** footswitch on MultiSwitch Plus to save the current state of the pedal to the desired location.

MIDI Functionality – Configuring Zelzah to Use MIDI

Using MIDI unlocks a set of tools that can be used to load any of Zelzah’s 300 preset locations using a suitable MIDI controller or interface connected to Zelzah’s **EXP/MIDI** jack. This requires a Strymon MIDI EXP cable or a MIDI controller/interface, such as Strymon Conduit, with at least one quarter-inch output. When using a Strymon MIDI EXP Cable, the MIDI OUT mode must be set to OFF. (See [page 27](#) for more info.)

Check strymon.net/support/zelzah for a list of compatible devices.



MIDI Functionality – Configuring Zelzah to Use MIDI (cont.)

Step 1 – Set EXP/MIDI Jack to MIDI Mode

- 1 Press and hold the **ON (4-STAGE)** footswitch while connecting power to the pedal. Once both LEDs flash, release the footswitch.



- 2 Turn the **SPEED (6-STAGE)** knob clockwise until the **ON (6-STAGE)** LED is **BLUE**.
- 3 Press either footswitch to store the EXP/MIDI jack mode.

MIDI Functionality – Configuring Zelzah to Use MIDI (cont.)

Step 2 – Set MIDI channel: This determines which MIDI channel Zelzah will use to send and receive MIDI data. To select channel 4-16, you will need to connect Zelzah to a MIDI device.

- 1 Press and hold the **ON (4-STAGE)** footswitch while connecting power to the pedal. Once both LEDs flash, release the footswitch.



- 2 Turn the **SPEED (4-STAGE)** knob to set the MIDI communication channel. **ON (4-STAGE)** LED indicates status.

SPEED knob selections:

Channel 1: **GREEN** (default)

Channel 2: **AMBER**

Channel 3: **RED**

Channel 4-16: **BLUE** (Requires 1/4" MIDI connection.)

Once the LED turns **BLUE**, it will blink until the pedal receives a MIDI Program Change message. Once a message is received, the pedal will be set to the MIDI channel that carried the message and exit the power-up mode to start using Zelzah.

MIDI Functionality – Configuring Zelzah to Use MIDI (cont.)



- 3 Press either footswitch to store the MIDI channel and begin using Zelzah.

NOTE: A simple way to check that communication is working is to send CC #10 with a value of 127 when the **ON (4-STAGE)** footswitch is off. This will turn the **ON (4-STAGE)** footswitch on if MIDI is properly connected and configured.

NOTE: If you are only sending data to Zelzah using the Strymon MIDI EXP Cable, the MIDI Output mode must be set to OFF.

(See [page 27](#) for details on configuring the MIDI Output Mode.)

NOTE: MIDI Channel assignment is not saved per Favorite setting or preset.

MIDI Functionality – Configuring Zelzah to Use MIDI (cont.)

Step 3 – Set MIDI Out Mode: Determines what kind of MIDI data will be sent out of Zelzah.

- 1 Press and hold the **ON (4-STAGE)** footswitch while connecting power to the pedal. Once both LEDs flash, release the footswitches.
- 2 Turn the **MIX** knob to select what kind of MIDI data is sent from Zelzah to other MIDI devices. Both LEDs will flash momentarily to indicate status.



OFF: RED (default) - No MIDI messages are sent out of Zelzah.

THROUGH: BLUE - Incoming MIDI messages are sent to the MIDI Out without any additional MIDI messages generated by Zelzah.

SEND CC PC OTHER: WHITE - MIDI CC, PC, and Sysex messages generated by Zelzah are all sent to the MIDI Out.

SEND CC OTHER: GREEN - MIDI CC and Sysex messages generated by Zelzah are sent to the MIDI Out.

SEND PC OTHER: PURPLE - MIDI PC and Sysex messages generated by Zelzah are sent to the MIDI Out.

SEND OTHER: AMBER - Sysex messages generated by Zelzah are sent to the MIDI Out

- 3 Press either footswitch to store the MIDI Out mode and exit.

MIDI Functionality - Saving Presets in MIDI Mode

When in MIDI mode, the currently loaded settings can be saved to any of Zelzah's 300 preset locations at any time.

- 1 To enter SAVE mode, press and hold the **ON (4-STAGE)** footswitch. The **ON (4-STAGE)** LED will blink **BLUE** to indicate that Zelzah is waiting to receive a MIDI Program Change message.



- 2 To save the current state of the pedal to the currently loaded preset location, press the **ON (4-STAGE)** footswitch.

OR

To save the current state of the pedal to any preset location, send the unit a MIDI Program Change on Zelzah's selected MIDI channel. The **ON (4-STAGE)** LED will flash and Zelzah will save the current state of the pedal to the preset location that corresponds with the MIDI Program Change message that was received.

NOTE: Press the **ON (6-STAGE)** footswitch to cancel the save operation.

MIDI Specifications

MIDI PROGRAM CHANGES

Zelzah contains 300 preset locations, numbered sequentially from 0-299. Because MIDI Program Change messages have a maximum number of 128 (0-127) the presets are grouped into three MIDI patch banks.

MIDI BANK 0 = PRESETS 0-127

MIDI BANK 1 = PRESETS 128-255

MIDI BANK 2 = PRESETS 256-299

- 0 Favorite setting (accessible via MiniSwitch)
(See [page 19](#) for details.)
- 1 MultiSwitch Plus footswitch 1
- 2 MultiSwitch Plus footswitch 2
- 3 MultiSwitch Plus footswitch 3
- 127 Manual mode (“knobs”)

Zelzah always powers up in MIDI Patch Bank 0, so if you plan to stay within the first 127 presets, simply send a standard MIDI Program Change message to load a preset.

If you will be using MIDI Banks 1 and/or 2, it is advisable to send a standard MIDI Bank Change message (MIDI CC# 0 with a value equal to the MIDI Bank#) before each MIDI Program Change.

Selecting bank 0, patch 127 will put Zelzah into Manual mode. In this mode, the pedal will be set to the current knob and switch settings. No preset data can be stored at this preset location.

MIDI Specifications (cont.)

MIDI CC NUMBERS

CC#	PARAMETERS	RANGE	ENUMERATION
0	Bank Select	0-2	
10	Bypass/On 4-Stage	0, 127	(0=bypass, 127=on)
11	Sweep	1-3	(1=classic, 2=barber, 3=envelope)
12	Speed 4-Stage	0-127	
13	Depth 4-Stage	0-127	
14	Mix 4-Stage	0-127	
15	Polarity 4-Stage	0-1	(0 = negative, 1 =positive)
16	Stereo Spread 4-Stage	0-127	
17	Bypass/On 6-Stage	0, 127	(0=bypass, 1-127=on)
18	Resonance 6-Stage	1-3	(1=off, 2=mid, 3=strong)
19	Speed 6-Stage	0-127	
20	Depth 6-Stage	0-127	
21	Voice 6-Stage	0-127	
22	Stereo Spread 6-Stage	0-127	
23	Series / Parallel / Split	0-2	(0=series, 1=parallel, 2=split)
27	Footswitch A	0, 127	(0=release, 1-127=press)
28	Footswitch B	0, 127	(0=release, 1-127=press)
33	Bypass/On A and B	0, 127	(0=bypass, 1-127=on)
60	MIDI Expression Off/On	0, 127	(0=off, 1-127=on)
93	Remote Tap	Any	
100	Expression Pedal	0-127	

NOTE: All on/off parameters are implemented with 0=off and any other value (1-127)=on. They are documented as "0, 127" because many MIDI controllers send out 0 and 127 for on/off switches.

Factory Reset

Restores the pedal to factory power up modes and secondary functions and replaces all stored presets with the factory defaults.



- 1 Press and hold the **ON (6-STAGE)** footswitch while connecting power to the pedal. Once both LEDs flash, release the footswitch.

- 2 Sweep the **DEPTH (4-STAGE)** knob from 0-100% and back two (2) times. The **ON (4-STAGE)** LED will change colors at the extremes of the knob range and blink **RED** to indicate when the reset is taking place.

Turn 1: **AMBER**

Turn 2: **RED**

Turn 3: **AMBER**

Turn 4: Both LEDs flash **RED**, Zelzah resets and restarts

FACTORY SETTINGS

EXP/MIDI Jack: Assigned to EXPRESSION mode

Input Level: Instrument

Bypass Mode: True Bypass

MIDI channel: 1

MIDI Output Mode: Off

4-Stage Stereo Spread: Off

6-Stage Stereo Spread: Off

Barber Polarity: Positive

Signal Routing: Series

MIDI Clock Sync: Off

MIDI Expression: On

Features

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- Two completely independent phasers with the ability to run separately, or simultaneously in series, parallel or split configurations
- 4-stage phaser with three sweep modes: Classic, Barber, and Envelope
- 6-stage phaser with a continuous range from phasing to flanging to chorus, all with adjustable resonance
- Adjustable input level switch to allow for both instrument and line level signals
- Selectable True or Buffered Bypass
- Expression pedal input allows the connection of a TRS expression pedal, MiniSwitch, MultiSwitch Plus, or TRS MIDI connection
- Full featured MIDI accessible via TRS supporting MIDI CCs, MIDI clock sync, access to 300 preset locations (requires Strymon MIDI EXP cable or MIDI > TRS interface such as Strymon Conduit)
- USB-C jack for controlling via MIDI from a computer or for performing firmware updates
- Ultra low noise, high performance 24-bit 96kHz A/D and D/A converters provide uncompromising audio quality
- High performance 480MHz ARM Superscalar processor
- 32-bit floating point processing
- Stereo Input (requires TRS adapter cable) and Stereo Output
- High impedance ultra-low noise discrete Class A JFET preamp inputs
- Low impedance stereo outputs
- Designed and built in the USA

Specifications

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Input Impedance	1 Meg Ohm
Output Impedance	100 Ohm
A/D & D/A	24-bit 96kHz
Max Input Level	+10 dBu
Signal/Noise	109 dB typical
Bypass Switching	True Bypass (electromechanical relay switching)
Dimensions	4.5" deep x 4" wide x 1.75" tall (11.4 cm deep x 10.2 cm wide x 4.4 cm tall)

Power Adapter Requirements

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Use an adapter with the following rating: 9VDC center negative; 300mA minimum.

Appendix 1
Sample Settings

Sample Settings



MIDI Program Change 0
MiniSwitch Favorite



MIDI Program Change 1
MultiSwitch Plus A



MIDI Program Change 2
MultiSwitch Plus B



MIDI Program Change 3
MultiSwitch Plus C



MIDI Program Change 4



MIDI Program Change 5

Appendix 2

**Power Up Modes
Quick Reference**

Power Up Modes Quick Reference

Global parameters and functions can be accessed via a power up procedure. All power up functions persist through power cycles.

Press and hold the **ON (6-Stage)** footswitch while connecting power to Zelzah. Once BOTH LEDs start blinking, release the footswitch.

Adjust the desired functions with the knobs and buttons noted below.

Press either footswitch to store your changes and exit power up mode.

BYPASS MODE

(See [page 14](#) for an illustrated description.)

Turn **SPEED (6-STAGE)** knob - status shown on **ON (6-STAGE)** LED

True Bypass: GREEN (default)

Buffered Bypass: RED

INPUT LEVEL

(See [page 13](#) for an illustrated description.)

Turn **SPEED (4-STAGE)** knob - status shown on **SPEED (4-STAGE)** LED

Instrument: GREEN (default)

Line: RED

FACTORY RESET

(See [page 31](#) for an illustrated description.)

Turn **DEPTH (4-STAGE)** knob from 0% to 100% and back two (2) times - status shown on BOTH LEDs.

Power Up Modes Quick Reference (cont.)

Global parameters and functions can be accessed via a power up procedure. All power up functions persist through power cycles.

Press and hold the **ON (4-STAGE)** footswitch while connecting power to Zelzah. Once BOTH LEDs start blinking, release the footswitch.

Adjust the desired functions with the knobs and buttons noted below.

Press either footswitch to store your changes and exit power up mode.

EXP/MIDI JACK MODE

(See [page 24](#) for an illustrated description.)

Turn **SPEED (6-STAGE)** knob - status shown on **ON (6-STAGE)** LED

Expression: **GREEN** (default)

Favorite: **AMBER**

Tap: **RED**

MIDI: **BLUE**

MIDI CHANNEL

(See [page 25](#) for an illustrated description.)

Turn **SPEED (4-STAGE)** knob - status shown on **SPEED (4-STAGE)** LED

1: **GREEN** (default)

2: **AMBER**

3: **RED**

4-16: **BLUE** (channel set by next MIDI message)

MIDI OUT MODE

(See [page 27](#) for an illustrated description.)

Turn **MIX** knob - status shown momentarily on BOTH LEDs.

ON CC PC OTHER: **WHITE**

ON CC OTHER: **GREEN**

ON PC OTHER: **PURPLE**

ON OTHER: **AMBER**

THROUGH: **BLUE**

OFF: **RED** (default)

Appendix 3

Live Edit Controls Quick Reference

Live Edit Controls Quick Reference

Zelzah provides a way to adjust several settings that do not have a dedicated knob or switch. Live Edit Functions are saved per preset.

Press and hold the **ON (6-STAGE)** footswitch until BOTH LEDs blink to enter Live Edit mode.

Release the footswitch and use the knobs as described below.

Press either footswitch to exit Live Edit mode.

SIGNAL ROUTING

(See [page 7](#) for an illustrated description.)

Turn **VOICE** knob - status shown on **ON (6-STAGE)** LED

Series: **GREEN** (default)

Parallel: **BLUE**

Split: **RED**

POLARITY (4-STAGE)

(See [page 10](#) for an illustrated description.)

Turn **DEPTH (6-STAGE)** knob - status shown on **ON (6-STAGE)** LED

NEGATIVE: RED

POSITIVE: BLUE (default)

STEREO SPREAD (4-STAGE)

(See [page 8](#) for an illustrated description.)

Turn **DEPTH (4-STAGE)** knob - BOTH LEDs change color from **GREEN** (narrow) to **AMBER** (wide) as the control is adjusted.

STEREO SPREAD (6-STAGE)

(See [page 9](#) for an illustrated description.)

Turn **DEPTH (6-STAGE)** knob - BOTH LEDs change color from **GREEN** (narrow) to **AMBER** (wide) as the control is adjusted.

Live Edit Controls Quick Reference (cont.)

Zelzah provides a way to adjust several settings that do not have a dedicated knob or switch. Live Edit Functions are saved per preset.

Press and hold the **ON (6-STAGE)** footswitch until both LEDs blink to enter Live Edit mode.

Release the footswitch and use the knobs as described below.

Press either footswitch to exit Live Edit mode.

MIDI CLOCK SYNC

(See [page 11](#) for an illustrated description.)

Turn **SPEED (6-STAGE)** knob - status is momentarily shown on BOTH LEDs.

OFF: RED (default)

ON: BLUE

MIDI EXPRESSION

(See [page 27](#) for an illustrated description.)

Turn **MIX** knob - status is momentarily shown on BOTH LEDs.

OFF: RED

ON: BLUE (default)

Strymon Non-Transferrable Limited Warranty

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Warranty

Strymon warranties the product to be free from defects in material and workmanship for a period of two (2) years from the original date of purchase when bought new from an authorized dealer in the United States of America or Canada. If the product fails within the warranty period, Strymon will repair or, at our discretion, replace the product at no cost to the original purchaser. Please contact your dealer for information on warranty and service outside of the USA and Canada.

Exclusions

This warranty covers defects in manufacturing discovered while using this product as recommended by Strymon. This warranty does not cover loss or theft, nor does the coverage extend to damage caused by misuse, abuse, unauthorized modification, improper storage, lightning, or natural disasters.

Limits of Liability

In the case of malfunction, the purchaser's sole recourse shall be repair or replacement, as described in the preceding paragraphs. Strymon will not be held liable to any party for damages that result from the failure of this product. Damages excluded include, but are not limited to, the following: lost profits, lost savings, damage to other equipment, and incidental or consequential damages arising from the use, or inability to use this product. In no event will Strymon be liable for more than the amount of the purchase price, not to exceed the current retail price of the product. Strymon disclaims any other warranties, expressed or implied. By using the product, the user accepts all terms herein.

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For North American customers: Contact Strymon through our website at strymon.net/support for Return Authorization and information. Proof of original ownership may be required in the form of a purchase receipt. For International Customers: Contact the Strymon dealer from which the product was purchased from in order to arrange warranty repair service. Strymon[®] is a division of Damage Control Engineering[®], LLC.