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Introduction

The ExP Controller Pedal allows access to all additional functionality embedded in a Neunaber Expanse-series pedal:

- Four effects
- Two presets for each effect
- Three expression inputs
- A Preset Morph expression input

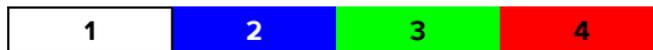
Since ExP accesses advanced functionality in an Expanse pedal, you should review the [Advanced Setup Guide](#) (included with your Expanse pedal).

Connections

Connect the ExP to the Expanse pedal's ExP Port via the included cable. Power is provided by the Expanse pedal.

Effects

The Effect footswitch cycles through four available effects. The color of the LED indicates the Effect number:



Program the four effects into your Expanse pedal using Expanse software:

- Connect the USB cable to your Expanse pedal and open the software.
- Change to the desired effect number (color) using the ExP. The Update button in Expanse software will display which effect will be programmed.
- Select the desired effect and click Update.
- Repeat for each effect you wish to update.

Each Effect remembers its own two presets as well as the *Mix Knob & Switch Behavior*. This is explained in the [Advanced Setup Guide](#). You may need to change the *Mix Knob & Switch Behavior* for each effect that is programmed differently than the default.

Presets

Each effect stores two presets: A and B. The Preset footswitch toggles between the presets, as indicated by the color of the LED:



A "preset" simply stores the knob positions. Presets are automatically stored when a knob position is changed. Only knobs that change are updated in the preset.

Using the Effects as Presets

If you want more than two presets for a particular effect, simply program the same effect into multiple slots. Using this method, you can have up to eight presets for one effect.

Expression Inputs

The Expression Inputs are compatible with the Roland EV-5, M-Audio EX-P and similar expression pedals. Each Expression Input controls the knob indicated; for example, the "left" expression input controls the left-hand knob on the Expanse pedal.

With an expression pedal attached, the knob sets the maximum range of the expression pedal. Remember—since a preset stores the knob position, this value becomes the maximum of the expression pedal's range when a preset is recalled. The Expression Inputs are not stored as part of a preset; only the knobs are stored.

Multiple Expression Inputs can be used concurrently. However, if you wish to synchronously change multiple knob parameters, the Preset Morph function was designed specifically for this purpose.

Preset Morph

The Preset Morph input accepts an EV-5-compatible expression pedal, like the expression inputs, but will morph between your two presets. "Morph" means that the knob values transition proportionately with the expression pedal, from Preset A at toe down to Preset B at heel down.

The Preset footswitch can be used while the Preset Morph expression pedal is connected; however,

- Preset A (yellow) must be selected to use the Preset Morph expression pedal, or
- the Preset Morph expression pedal must be toe down (yellow) to use the Preset footswitch.

In other words, you can use either the footswitch or expression pedal to change the preset, as long as you **start with Preset A (yellow)**.

Presets can be updated (by changing a knob) while using the Preset Morph function, but the expression pedal should be near toe-down or heel-down for the nearest preset to be updated. Within the middle of the range, knob changes will have no effect.

Controlling Multiple Pedals

Control up to five Expanse-series pedals with one ExP using our PentaPort Expansion Port Combiner. Simply connect the all the pedals to the PentaPort.

Two pedals can be controlled simultaneously using an off-the-shelf "RJ45 Splitter."

Specifications

EXPRESSION & PRESET MORPH	
Connector	1/4" (6.35mm) TRS
Polarity	Tip: control in Ring: 3.3V out Sleeve: 0V (ground)
Voltage Range	0V minimum 3.3V maximum
CABLE (EXPANSION PORT)	
Type	8-pin Cat 5 (EIA 568B), 24 AWG
Length (inc.)	12 inches (300 mm)
Length (max.)	33 feet (10 m)
POWER	
Input	Powered by Expanse pedal
PHYSICAL	
Dimensions	2.9" W, 4.6" L, 2.0" H (73 mm W, 117 mm L, 51 mm H)
Weight	7.0 oz (195 g), without cable

*Specifications subject to change without notice.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: This product contains no user-serviceable parts. Opening the pedal may expose sensitive components to electro-static discharge, resulting in permanent damage. Please do not remove the bottom cover or otherwise disassemble the pedal.

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