



MISSION
ENGINEERING

EP-11S EXPRESSION PEDAL



USER
GUIDE

INTRODUCTION

Congratulations on your purchase of the Mission EP-11S expression pedal. This product is designed to be intuitive to setup and operate, and to provide many years of trouble free service. However, we recommend that you take a few moments to read through this User Guide in order to get the best possible experience with your new pedal.

FEATURES

The EP-11S is professional quality, all metal expression pedals designed for use with Avid Eleven Rack guitar processor. Mission and Avid engineers collaborated on the development of the EP-11S to ensure a perfectly performing expression pedal to control effects parameters of the Eleven rack including wah, volume, rotary speaker and many others. The EP-11S additionally features a toe switch, that when used with a compatible MIDI controller, can be used to support switchable functions such as turning an effect on and off.

POWER

The EP-11S is a passive device and requires no internal battery or external power source for expression control and switching.

CONNECTIONS

The EP-11S uses two ¼" TRS phone plug outputs marked **OUT1** and **OUT2** on the underside of the pedal. **OUT1** is the expression pedal output and **OUT2** is the switch output. When using the pedal without a MIDI controller, only one output can be used at a time. Connect **OUT1** to the exp pedal input on the rear panel of the Eleven Rack using a ¼" TRS-TRS instrument cable such as the Mission MCTRS3A cable. TRS stands for Tip, Ring, Sleeve and is a three-conductor cable. It is sometimes also called a stereo or balanced cable. Use of the correct

cable with a TRS connector at both ends is required. A mono TS cable such as a regular guitar cable, and insert cables that have both TS and TRS plugs, will not work in most cases.



Figure 1.

Figure 1. A TRS connector with the three conductors separated by the black insulation bands. The pointed front of the connector is the tip, the middle band is the ring, and the large conductor at the rear nearest the plug body is the sleeve.

The output labeled **OUT2** provides toe switching functions when used with a compatible MIDI controller. Use of the footswitch is optional. To use the footswitch, connect **OUT2** to a compatible input on the controller using a second TRS-TRS ¼" instrument cable. The switch is operated by pushing down on the front of the pedal with sufficient pressure to actuate the switch.

NOTE

The standard EP-11S is fitted with a TRS latching foot switch. Different controller inputs may require different switches. User installable Switch Kit's are available.

POLARITY SWITCH

The EP-11S features a toggle switch under the rocker in the center of the pedal. The toggle can be used when required for compatibility with certain MIDI controllers. The factory default is set for compatibility with the Eleven Rack expression pedal input. If you are using the pedal with a device that requires a different polarity expression pedal, switch the toggle to the reverse position.



CONFIGURATION

When connecting the EP-11S to the back of the Eleven Rack, it is necessary to set the Eleven Rack to correctly recognize the pedal in order to get the best response. Turn on the Eleven Rack and hold the edit button for a few seconds to bring up the option menu on the display. Turn the scroll knob until 'External Pedals' is highlighted and then press the illuminated SW1 'select' button. If necessary, turn the scroll knob again until 'Expression Pedals' is highlighted. Turn the illuminated 'Pedal Type' knob until 'Pedal Type: EP-11' is displayed.

After selecting the pedal type, the start and stop positions need to be calibrated. Press the illuminated SW2 'calibrate' button. Set the pedal to heel down and then press the SW1 'next' button. Set the pedal to toe down and press next again. To test that the Eleven Rack is detecting the pedal, move the rocker up and down and make sure that the green SW2 'active' light illuminates. If not, check that you are using the correct cable, and it is connected correctly, then repeat the setup procedure. Press SW1 'save' to store the settings, and setup is complete.

ADJUSTMENTS

The tension of the rocker can be adjusted using the tension adjustment screw on the rear of the pedal between the rocker and the base. Use the hex key provided to tighten the adjustment screw until the pedal remains in place. It may be necessary to adjust this screw every once in a while to compensate for use and environmental conditions such as very hot or

cold weather, when the pedal has been stored for a long period, or after shipping. Replacement hex keys are available.

The switch sensitivity on the EP-11S can be adjusted by lowering or raising the switch in the chassis. Use spacers and washers provided to lower the switch making it harder to press. Remove spacers and washers to raise the switch making it easier to press. When replacing the switch, be careful not to over tighten the lock nut and damage the switch.

SPECIFICATIONS

Electrical Specifications

Potentiometer

Internal resistance - 10K Ohm

Taper - Linear

Polarity - Tip to wiper/ring to wiper, switch selectable

Function - Voltage Divider

Usage rating > 1M cycles

Switch

Type - Latching

Function - Toggles tip between ring and sleeve

Dimensions

Base length at longest point - 9.9"

Base width at widest point - 4.0"

Height at highest point including feet - 3.25"

Pedal length - 8.7"

Pedal width at widest point - 3.0"

Pedal width at narrowest point - 2.3"

Weight - 3.5lbs

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www.missionengineering.com info@mission-engineering.com

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SAFETY INSTRUCTIONS

- Read, Keep & Follow these instructions
- Heed all warnings
- Clean only with dry cloth
- Do not use this apparatus near water
- Do not expose the apparatus to dripping or splashing and ensure that no objects filled with liquids, shall be placed on the apparatus
- **WARNING:** To reduce the risk of fire or electric shock do not expose this apparatus to rain or moisture
- Unplug this apparatus during lightning storms or when unused for long periods of time
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat
- Only use attachments/accessories specified by the manufacturer
- Prolonged listening at high volume levels may cause irreparable hearing loss and/or damage. Always be sure to practice "safe listening."
- Refer all servicing to qualified service personnel. Service is required when the apparatus has been damaged in any way, such as:
 - power-supply cord or plug is damaged
 - liquid has been spilled or objects have fallen into the apparatus
 - the unit has been exposed to rain or moisture.
 - the unit is dropped or the enclosure is damaged
 - the unit does not operate normally or changes in performance in a significant way