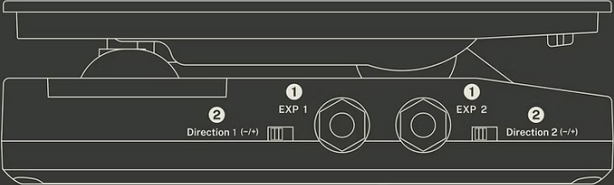


Quick Start

MANTRA DUAL EXPRESSION PEDAL

QUICK START



1 EXP 1&2

1/4" (6.35 mm) TRS expression outputs for devices with an EXP input. Both outputs can be used simultaneously.

2 Direction (-/+) Switches 1 & 2

Sets the sweep direction (polarity) of EXP 1/2.
"+" = toe-down increases value;
"- " = toe-down decreases value.
**Direction changes the control direction only; it does not change the resistance value.*

NOTE

* Expression-input implementations vary by manufacturer (wiring, resistance, calibration). While designed for broad compatibility, operation with every product can not be guaranteed. Default TRS pinout (typical): Tip = wiper, Ring = reference, Sleeve = ground. Some devices may use RTS; refer to the device's manual.

CONNECTING TO KLOWRA PEDALS

1. Use a TRS cable connect MANTRA to the Klowra pedal's CTRL input.

2. The Klowra pedal's LED will flash red to indicate detection mode.

3. While the LED is flashing, fully sweep the expression pedal from heel to toe and back several times (min ⇄ max).

4. When the LED stops flashing, the Klowra pedal will return to normal operation.

SPECIFICATIONS:

EXP Out 1&2 (Expression): 1/4" (6.35mm) TRS, 10kΩ, Linear
Dimensions: 81mm(W) × 162mm(D) × 51mm(H)
Weight: 443.5g

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Overview

This guide explains how to set up the **Klowra Mantra Dual Expression** for use with Klowra Bloom Infinity series pedals. The connection and setup process is the same for all models in the series. The **Klowra Limbo Reverb** is used as the example below.

If you plan to use the **Klowra Mantra Dual Expression** with other devices, please refer to the user manual for the specific device.

Connection and Activation

- Use the included 1/4" (6.35 mm) TRS cable:
- Connect one end to the **Mantra Dual Expression's one of the EXP jacks (EXP 1 or EXP 2)**.
 - Connect the other end to the **CTRL** jack on the **Limbo Reverb**.

Once connected, the **Limbo Reverb** will flash red and automatically enter Calibration Mode.

Tip: Always use a TRS cable. Using a TS cable may prevent the device from being detected or cause an incorrect control range.

Calibration

After the connection is completed, the **Limbo Reverb** indicator will flash red, indicating **Calibration Mode**.

In Calibration Mode:

- Move the expression pedal from **Heel to Toe**, then from **Toe back to Heel**.
- Sweep through the full range several times so the unit can detect the **minimum** and **maximum** values.

After approximately 5 seconds, the device will exit Calibration Mode automatically. The pedal is then ready for normal operation.

Not working after calibration?

- If the pedal does not respond correctly after calibration, try the following:
- Unplug and reconnect the cable on both ends.
 - Confirm the **Mantra Dual Expression** is connected to **EXP 1/2** and the **Limbo Reverb** is connected to **CTRL**.
 - Re-enter Calibration Mode and immediately perform several quick, full-range **Heel ↔ Toe** sweeps.
 - If the issue persists, try a different 1/4" (6.35 mm) TRS cable.

Expression control behavior and limitations

When an expression pedal is connected, it overrides the Ramp function and creates a continuous transition between Panel-Set and Snap-Set.

In this mode:

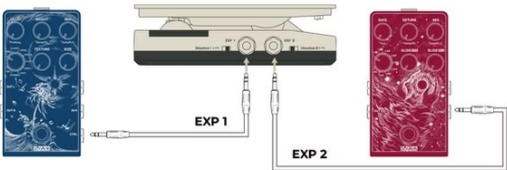
- Ramp ATK** and **Ramp RLS** are disabled.
- Ramp cannot be triggered by pressing and holding the footswitch.
- The **Limbo Reverb** is locked to the **white LED** state and cannot be switched to the orange LED state.

Direction Switches 1 and 2

- These switches set the sweep direction (polarity) for EXP 1/2 :
- (+): Value increases when pressing toward Toe.
 - (-): Value decreases when pressing toward Toe.
- Note: Changing the direction only reverses the control behavior. It does not change the resistance value.

Connection examples

- Single output (one channel):**
You may set the Direction to either (+) or (–) based on personal preference.
- Dual output (two channels):**
Each channel can be set independently to create different Ramp behaviors. In the example below, EXP 1 is set to (+) and EXP 2 is set to (–).



- When sweeping from Heel to Toe:
- The pedal connected to **EXP 1** transitions from **Panel-Set** to **Snap-Set**.
The pedal connected to **EXP 2** transitions from **Snap-Set** to **Panel-Set**.

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