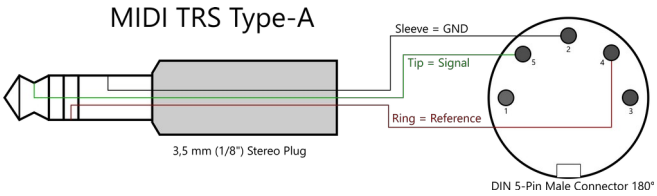
TRASH PANDA QUAD – Quick Start

Connections

- **EXP1/2/3/4:** Expression outputs. 1/4'' stereo jack sockets wired like a standard expression pedal with a 50k potentiometer and thus will fit most common pedals. Every ***EXP*** has a corresponding dual color LED to represent the state of the expression output. It lights green in the heel position, shifts to orange in the middle position and gradually fades to red towards the toe position. Maximum voltage on all expression outputs: 5V.
- **EXP IN:** The expression pedal input. Connect a standard expression pedal (resistance does not matter) here to directly control one or more of the expression outputs.
- **Power Supply:** 9-18V. 2.1mm barrel connector, center negative. This corresponds to the standard “Boss-Style” power supply. Current consumption maximum 180mA.
- **MIDI In/Thru**: 1/8“ stereo jack sockets according to MIDI standard for MIDI TRS (**MIDI TRS-Type A**).



Please disconnect all devices from the power supply, before making any connections.

Calibration Procedure

- In ***Preset Mode*** or ***Manual Mode*** press and hold the right footswitch (**+/CALIB**) for 3s. The ***EXP*** LEDs start flashing green and the preset LEDs show the position of the expression pedal before calibration.
- Move the expression pedal to heel position and press the right footswitch (**+/CALIB**) again. The ***EXP*** LEDs start flashing red.
- Move the expression pedal to toe position and press the right footswitch (**+/CALIB**) again. All LEDs flash fast a few times. The expression pedal heel and toe positions are saved.

To cancel the Calibration Procedure, press the left footswitch **(-/INVRT)**.

Modes

The ***Trash Panda Quad*** has three modes. With an expression pedal plugged in, you can switch between ***Manual Mode*** and ***Preset Mode*** by pressing and holding both footswitches. By unplugging the expression pedal you automatically enter the ***MIDI Mode***, with all footswitches disabled. Regardless, MIDI commands can be sent in every mode.

Mode 1: Manual Mode

When the preset LEDs show the position of the expression pedal, the *Trash Panda Quad* is in *Manual Mode*.

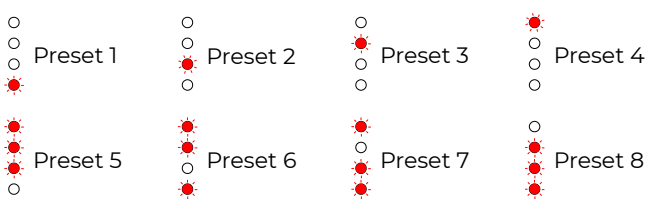
Footswitch	Action	Function
+/CALIB	Press	Selects the next used expression out to be active
	Hold 3s	Enters the calibration procedure
-/INVRT	Press	Selects the previous used expression output to be active
	Hold 3s	Permanently inverts the active expression out

Mode 2: Preset Mode

When one or more of the preset LEDs light up independent from the position of the expression pedal, the ***Trash Panda Quad*** is in ***Preset Mode***.

Footswitch	Action	Function
+/CALIB	Press	Selects the next preset
	Hold 3s	Enters the calibration procedure
-/INVRT	Press	Selects the previous preset
	Hold 3s	Enters the preset save procedure

There are 8 presets that correspond to the preset LEDs like in the picture on the right.



Preset Save Procedure

To save a new preset, proceed like this.

- While in Preset Mode, press and hold the left footswitch (**-/INVRT**) for 3s. The preset LEDs start flashing.
- Use the (**-/INVRT**) footswitch to select the preset you want to save. Press the (**+/CALIB**) footswitch when the LEDs corresponding to the preset you want to save blinks.
- The LED of ***EXP1*** starts flashing. Use the (**-/INVRT**) footswitch to choose if ***EXP1*** will be:
  - Active with normal direction (LED flashes green slowly)
  - Active with inverted direction (LED flashes red slowly)
  - Active with logarithmic taper (LED flashes green fast)
  - Active with reverse logarithmic taper (LED flashes red fast)
  - Inactive (LED is off)

  You can cycle through these five options as many times as you like.
- When the desired behavior is set, press the right footswitch (**+/CALIB**) to proceed to the next ***EXP***.
- When all four ***EXP*** are set the way you like it, press and hold the right footswitch (**+/CALIB**). The LEDs flash fast a few times. The preset is saved.

To cancel the Preset Save Procedure, press and hold the left footswitch (**-/INVRT**).

Deleting a Preset

To delete a preset, proceed like this.

- Enter Preset Save Procedure by pressing and holding the left footswitch (**-/INVRT**) for 3s. The preset LEDs start flashing.
- Use the (**-/INVRT**) footswitch to select the preset you want to delete.
- Press and hold both the (**+/CALIB**) and (**-/INVRT**) footswitch for 3s. The preset will be deleted.

To cancel the procedure, press and hold the left footswitch (**-/INVRT**).

MIDI Channel

The ***Trash Panda Quad*** ships in omni mode (i.e. it responds to every channel). The MIDI channel can be set in two ways. With the **+/CALIB**-Footswitch, or with a MIDI command.

To change the MIDI channel using the **+/CALIB**-Footswitch, proceed as follows:

1. Disconnect the device from the power supply
2. Press and hold the **+/CALIB**-Footswitch and restore the power while the footswitch is pressed.
3. After the boot process is complete, the device starts to flash its LEDs. Press the footswitch according to the number of the desired channel (e.g. twice for channel 2). The ***Trash Panda Quad*** acknowledges this by emitting short flashing pulses corresponding to the number of the channel.
4. Once the desired channel is set, press the footswitch and hold it down until all LEDs stop flashing.
5. Disconnect the supply voltage. The next time the ***Trash Panda Quad*** is started, it reacts to the selected MIDI channel.

To put the ***Trash Panda Quad*** in omni mode skip step 3.

MIDI Implementation

For the full MIDI implementation see the full user manual at https://oscillatordevices.com/trash-panda

All functions, like LFO, Range and Taper can be set up via the WebMIDI Interface on the Oscillator Devices Website.