

## Calibrate

Choose a control and calibrate its center, upper and lower limits.

**N.B. The AXiS does NOT send MIDI while in this page.**

Do this when;

- The AXiS has lost its memory through long term disuse, or
- when you add a new external control, or
- when you change an external control for another, or
- a control is not working as you wish.



*NOTE that for ALL variable controls, including the on-board wheels and knobs, you **MUST** define the center. This is because with the AXiS it is possible to assign any of these to pitch-bend. It also means you can define MIDI-64 (center) to be nearer one end of the range of the control than the other if you like.*

- 1 Use Cursor Buttons to select the control you want to calibrate
- 2 Move the control to minimum and maximum positions (or operate your plugged in Sustain pedal etc)



*TIP: Don't force the wheels to the very very end of their travel as if you do you may need the same force during operation to get 0 or 127.*

- 3 Move the control to where you want the center to be.



*NOTE: The (center) Ctr:xxx value varies as you operate the control.*

- 4 Press +



*TIP: If you want the control to operate evenly throughout the range, make the Ctr:xxx value half way between the Min:xxx and Max:xxx values shown. Unlike the Knobs, the Wheels will not show values from 0 to 127 at this stage since their travel is limited. Eg:*

*Before pressing +*

**UTILITY Mod Wheel**  
**Min:057 Ctr:072 Max:086**

*After pressing +*

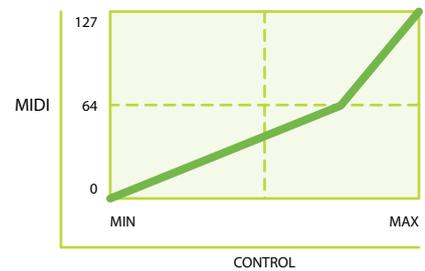
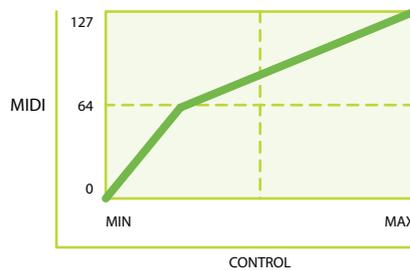
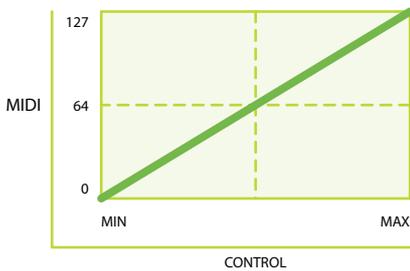
**UTILITY Mod Wheel**  
**Min:000 Ctr:064 Max:127**

*After after you press + to confirm, the Ctr: value shows where you have defined the center as a value between 000 (minimum) and 127 (maximum).*

### Calibrating Off-Center

The MIDI-center of a control can be set to a point off-center on the physical control.

The diagrams below show how a control will behave when it is calibrated with MIDI-center at center, below center, and above center.



*NOTE: If you make the center very near one end, you will get a very steep slope to the graph near that end. If you make the center **at** the maximum, the control will only give 000-063. If you make the center **at** the minimum, the control will only give 064-127.*



*Tip: Normally it's a good idea to set the control's center at, or near, the physical center to experience normal linear behavior.*

An off-center calibration may be particularly useful when using a pedal to control volume. The center might be set high so that the lower range of the pedal is less sensitive to change, allowing for smoother fade-ins at lower volumes.

**5 Calibration complete. Select another control to calibrate, or press PLAY.**