POLY D

Analog 4-Voice Polyphonic Synthesizer with 37 Full-Size Keys, 4 VCOs, Classic Ladder Filter, LFO, BBD Stereo Chorus, Distortion, 32-Step Sequencer and Arpeggiator
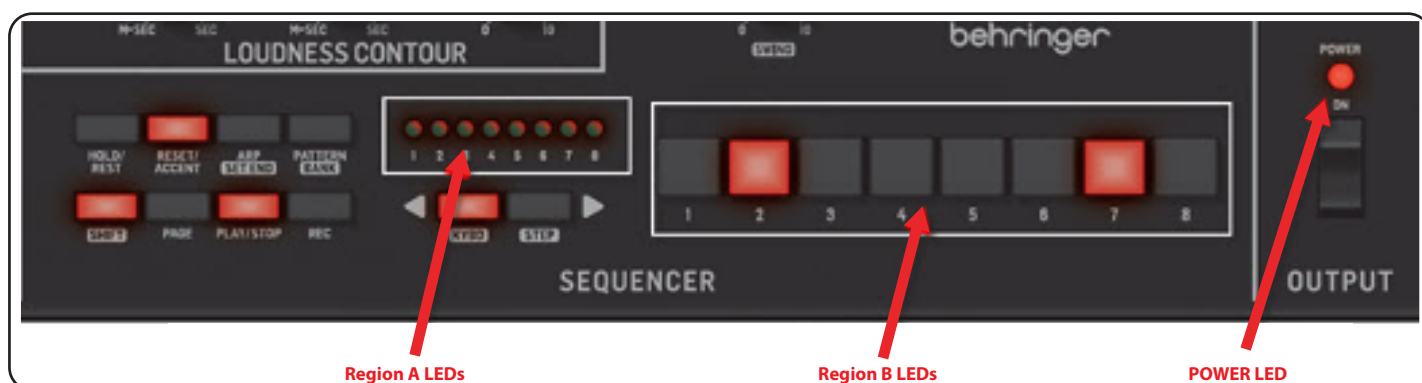
User Support Bulletin

Introduction

The unit is carefully calibrated at the factory. The performance may change over time or due to environmental changes, and the following recalibration procedures can be used to bring it back to its factory settings.

Calibration Procedure

Summary:

CALIBRATION CHANNELS:

CHANNEL 1 — PITCH WHEEL MAX/MIN

CHANNEL 2 — PITCH WHEEL dead zone

CHANNEL 3 — MOD WHEEL MAX/MIN

CHANNEL 4 — AFTERTOUCH MIN

CHANNEL 5 — AFTERTOUCH MAX

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Operation:

⚠️ Follow all steps in the order in which they are presented.

STEP 1 Start Calibration Routine
1. Press and hold button "KYBD + STEP", then power on POLY D.
2. When all the LEDs are running (during the first 3 seconds after power on), press button "3" to start the calibration routine.
3. Power LED will blink RED.

STEP 2 Start PITCH WHEEL Calibration
1. Press button "1" to calibrate PITCH WHEEL.
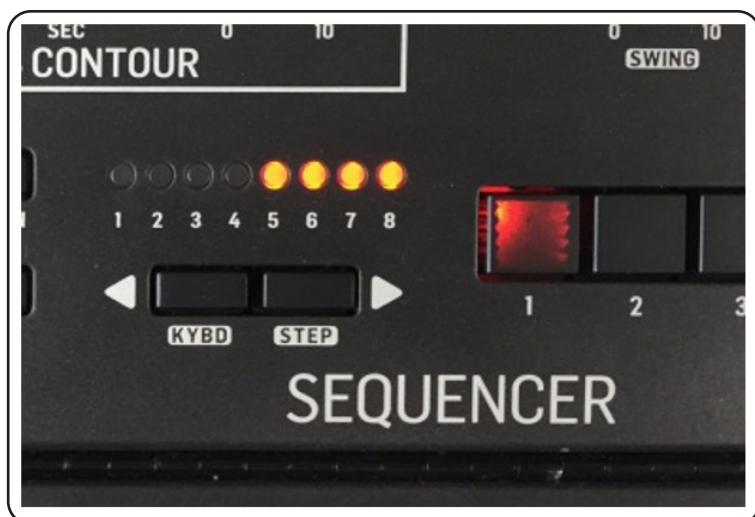2. Button "1" LED will light and region A LEDs will indicate current PITCH WHEEL position.

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STEP 3 Calibrate PITCH WHEEL Maximum Position

Move the PITCH WHEEL to its maximum position. Region A LEDs will show maximum position of PITCH WHEEL.

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STEP 4

Calibrate PITCH WHEEL Minimum Position
Move the PITCH WHEEL to its minimum position. Region A LEDs will show maximum position of PITCH WHEEL.

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STEP 5

Start PITCH WHEEL Dead Zone Calibration

1. First release PITCH WHEEL.
2. Press button "2" to calibrate PITCH WHEEL dead zone.
3. Button "2" LED will light on and region A LEDs will indicate current PITCH WHEEL position.

STEP 6

Calibrate PITCH WHEEL dead zone

Move the PITCH WHEEL within the dead zone where you don't feel the tension of the spring. This will ensure that no pitch information is sent while pitch wheel is not being touched.
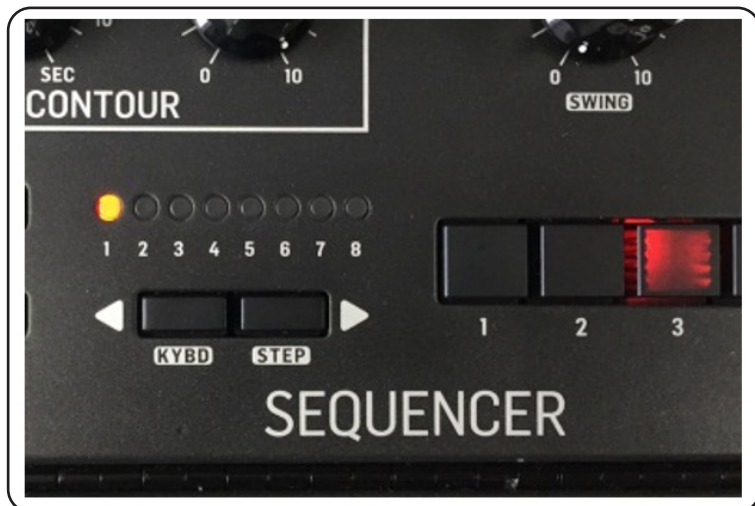
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STEP 7

Start MOD WHEEL Calibration

1. First move MOD WHEEL to its minimum position.
2. Press button "3" to calibrate MOD WHEEL.
3. Button "3" LED will light and Region A LEDs will indicate current MOD WHEEL position.
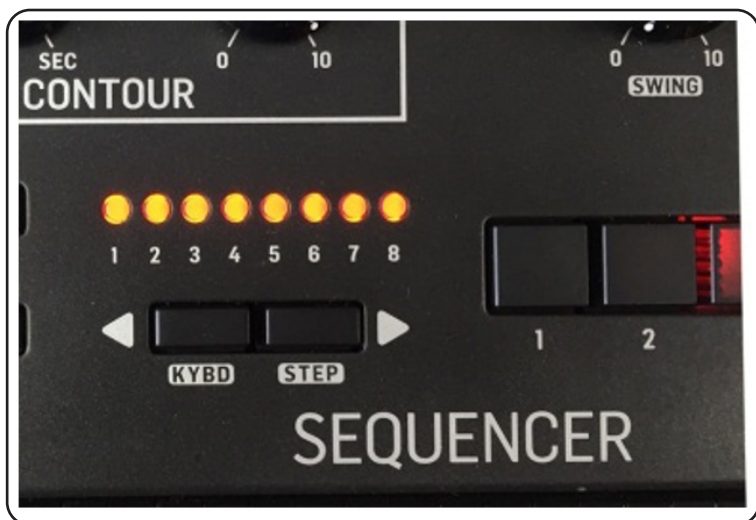
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STEP 8

Calibrate MOD WHEEL Maximum Position

Move the MOD WHEEL to its maximum position. Region A LEDs will show maximum position of MOD WHEEL.

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STEP 9
Calibrate MOD WHEEL Minimum Position
Move the MOD WHEEL to its minimum position. Region A LEDs will show minimum position of MOD WHEEL.

STEP 10
Start AFTER TOUCH Minimum Position Calibration
1. Press button "4" to calibrate AFTER TOUCH minimum position.
2. Button "4" LED will light on and region A LEDs will indicate current AFTER TOUCH value.

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STEP 11

Calibrate AFTER TOUCH Minimum Position

Apply a small pressure to any one of the keys (or multiple keys) or do not apply any pressure.

This will ensure that no after touch information is sent while keys are not being pressed.

STEP 12

Start AFTER TOUCH Maximum Position Calibration

1. Press button "5" to calibrate AFTER TOUCH maximum position.

2. Button "5" LED will light on and Region A LEDs will indicate current AFTER TOUCH value.

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STEP 13
Calibrate AFTER TOUCH Maximum Position

Apply pressure to any one of the keys (or multiple keys) until AFTER TOUCH value stops increasing (Region A LEDs will indicate current AFTER TOUCH value).

STEP 14
Calibration Complete.

Press SHIFT + STEP to confirm and save all calibration results. Region B LED will show calibration results. Relative LED will light to indicate corresponding channel is calibrated. Otherwise it may be a failed calibration.

NOTE: Press SHIFT + KYBD will cancel all calibration and return to normal mode.

TIPS:

A. You can calibrate only one of the channels (1-3) at a time.

B. For channel 4 and 5, you have to calibrate both of them simultaneously.

End of Procedure