Q143 Presets

The Q143 Presets module provides manual switching of 2 voltage sources and 2 routing paths. This can be used to allow quick switching of various patch settings and is perfect for switching patches at live events.

Specifications
  Panel Size: Dual width 4.25"w x 8.75"h.
  Output Levels: 10V PP maximum
  Power: +15V@8ma, -15V@8ma.

Controls and Connectors
A/B Selection Switch
Selects voltages and paths from the A side or B side, or neither when in the center.

Voltage Controls
Adjust the output voltage from -5v to +5v.

Usage and Patch Tips

Basics
The Q143 Presets module is a simple A/B switch and provides 2 voltage sources and 2 switches (SPDT). To provide a switch-selectable voltage, simply patch the output of a voltage section to the desired destination, then adjust the voltage at the A and B positions. To make a route change, simply patch the signals through the bottom switch sections. Signals can flow in either direction.

Filter Resonance Settings
Patch the output of one of the voltage sections to the voltage controlled Resonance input of the Q107 filter. Adjust the input level on the filter to +5 (Full), then adjust the voltage controls on the Q143 for both A and B positions.
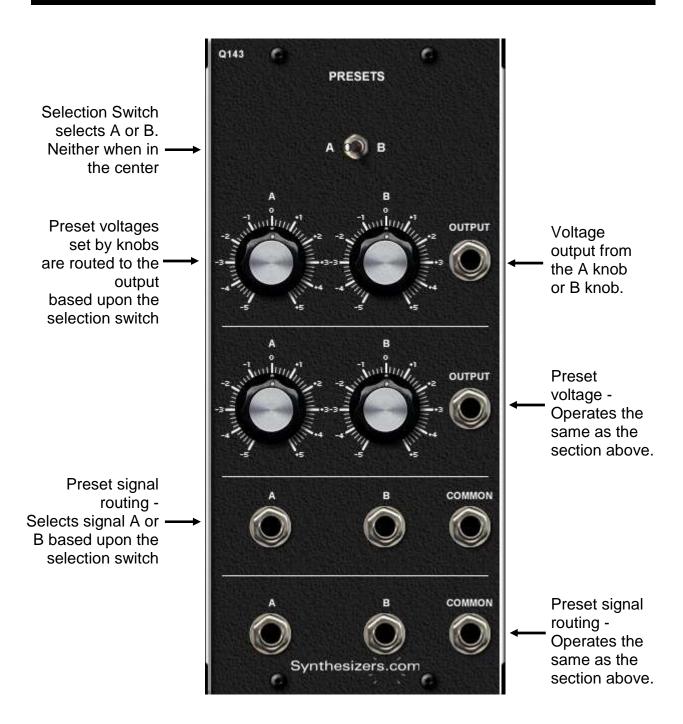
Oscillator Octave Settings
Patch the output of one of the voltage sections to one of the 1V/Octave inputs on the Q106 Oscillator. Adjust the voltage controls on the Q143 for both A and B positions to select different octaves for each position.

Many More Possibilities
Use the Q143 to select various triggering sources for a sequencer, select between different banks of oscillators, provide various settings for Pan/Fade, or select between the ladder filter or the state variable filter. As with any module in this type of system, your imagination is the only limit.

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Selection Switch selects A or B. Neither when in the center

Preset voltages set by knobs are routed to the output based upon the selection switch

Preset signal routing - Selects signal A or B based upon the selection switch

Voltage output from the A knob or B knob.

Preset voltage - Operates the same as the section above.

Preset signal routing - Operates the same as the section above.

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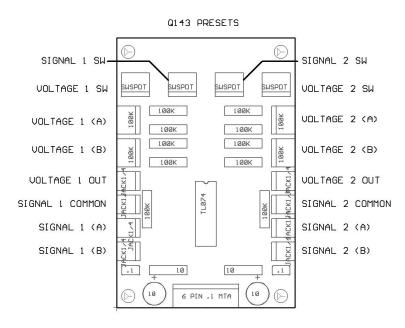## Testing

1. Attach a voltmeter or oscilloscope to the output jack of the top section.
2. Set switch to A
3. Turning knob A in that section should adjust the voltage from -5 to +5.
4. Set switch to B
5. Turning knob B in that section should adjust the voltage from -5 to +5.
6. Set switch to middle.
7. Output should be 0 volts.
8. Do this same test to the next voltage source section.

9. Attach an oscilloscope to the output jack of the first switch section.
10. Apply a 1Khz signal to the Common jack.
11. Set switch to A.
12. The signal should be present at the A jack.
13. Set switch to B.
14. The signal should be present at the B jack.
15. Do this same test to the second switch section.

PC Board Layout

Power Connector

6 pin .1" MTA type connector made by AMP. Available from Mouser Electronics or Digi-Key. Modules have a male PCB mount connector and cable harnesses have a female.

Part Numbers:
Female cable mount: #6404416
Male PCB mount: #6404566

Pinout:
1 = +15v
2 = key (pin removed)
3 = +5v
4 = gnd
5 = -15v

Not all voltages are used on all modules.