

## Bifilar MAGnetic to Scalar Switch

This switch was primarily designed to facilitate switching the Bifilar MAGnetic Coil from magnetic mode to scalar mode while connected to a two channel function generator running in Spooky Boost mode. Although the Bifilar MAGnetic Coil will run without a Spooky Boost, it was determined that the boost mode provides a stronger magnetic and scalar wave.

An explanation for those that are not using a Spooky2 function generator follows; The Spooky2 is a two channel function generator where channel 1 and channel 2 can be added together with a cable called the Spooky Boost, or an attaching circuit board that provides the same addition function as the Spooky Boost cable. Most two channel function generators provide a sync function that allows for combining the two output signals from the generator to create a single output signal with twice the amplitude of what a single channel alone could provide. Of course this is provided both channels are set to the same frequency and amplitude with one of the channels in an invert-sync mode.

The switch is a very convenient method of providing a simple plug and go, magnetic to scalar switching function.

The toggle switch on the side of the enclosure has three position settings.

**FORWARD**, pointing toward the Red and Black connection poles, places the switch in magnetic mode.

**CENTER**, is the off position and the connection to Bifilar MAGnetic Coil is electrically disconnected from the function generator.

**BACKWARDS**, pointing away from the Red & Black connection poles, places the switch in scalar mode.

NOTE: The red and black connection poles provide a way of using the switch with a function generator amplifier or a device like the Frequency Converter. It allows for a means to add additional resistance to the circuit to act as a current limiting control for an amplifying device. For normal operation with a Spooky2 or most other functions generators, the poles are connected together with a jumper wire.

More information, a video, and a schematic of the 'Bifilar MAGnetic to Scalar Switch' can be found on the [http://www.aurorasky.net/html/bifilar\\_mag\\_coil.html](http://www.aurorasky.net/html/bifilar_mag_coil.html) project page. For additional information please feel free to contact the author at [contact\\_1@aurorasky.net](mailto:contact_1@aurorasky.net).