

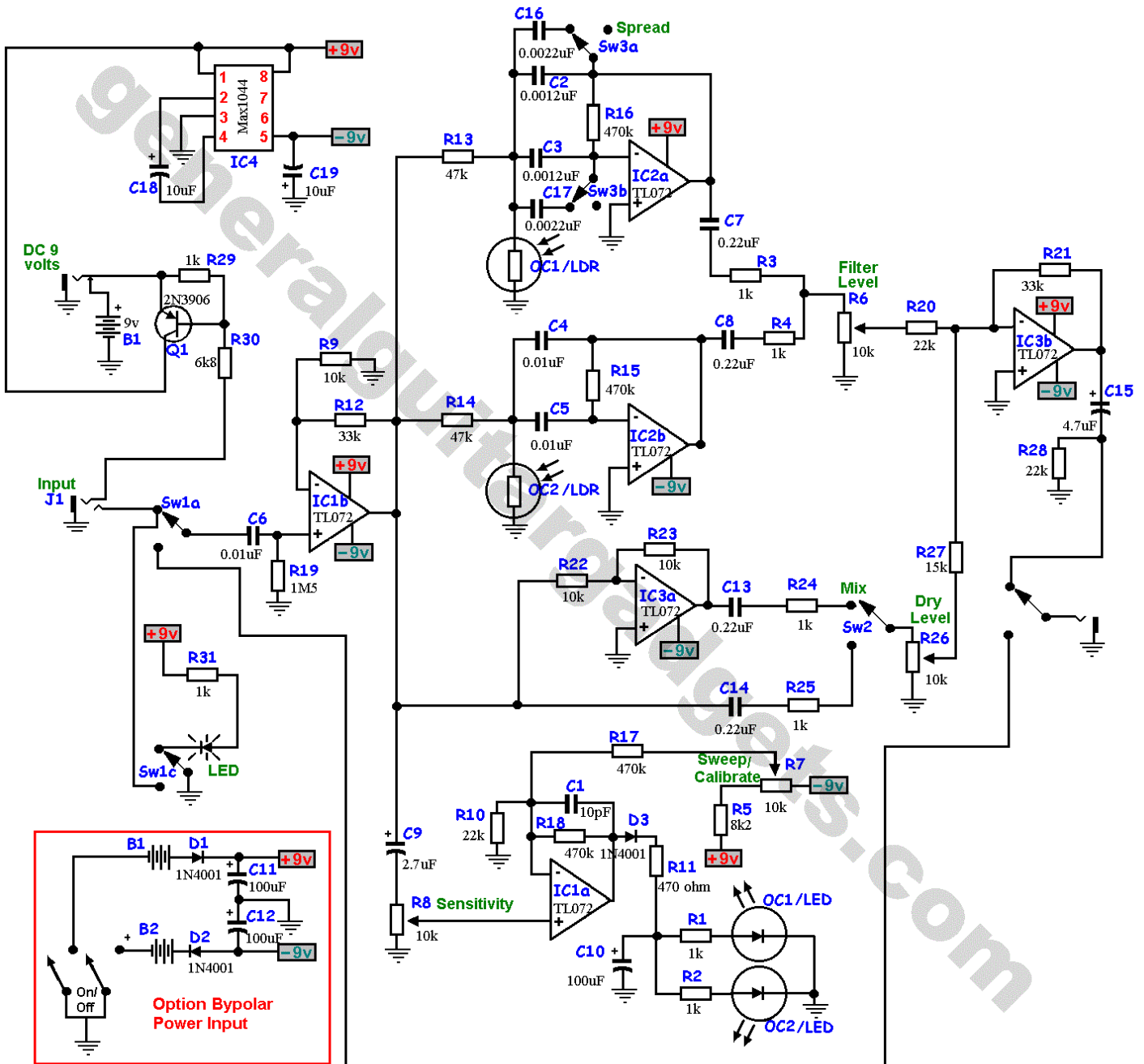
# Craig Anderton Bi-Filter Follower with Mark Hammer Modifications

Version 2014July03

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## Modifications

**Spread Switch** – Sw3 is a CPDT switch that selects between the original value of 3300pF for the upper filter (1200pF + 2200pF) or a much smaller value of 1200pF, which pushes the upper filter about an octave and a quarter higher to spread the filters farther apart. Other cap values can be used but these values provide a useful change with minimum fuss.

**IC3a** is an inverting unity-gain stage. This signal is in phase with the outputs of the filter sections (which are inverting). C13 blocks DC voltage.

**IC3b** is an inverting mixer section that combines the filter outputs plus user-selected amount of the dry signal. The inverting mixer means that when only the filters are used, the output is in phase with the input, something that was missing from the original. The mixer adds a small amount of gain so that unity gain can still be achieved even when there is cancellation/notches created.

**Mix Switch** – Sw2 is an on-off-on SPDT toggle switch. It selects either the inverted or non-inverted dry signal or neither. R26 mixes how much of the dry signal is combined with the filtered signal. When the filter sections are combined with the inverted dry signal they sum to produce a dry signal with resonant peaks being swept. When the filters are mixed with the non-inverted dry signal, they cancel to produce swept notches like an envelope-controlled 4-stage phase shifter.