A 32 F photo-flash capacitor is charged to 1000 V using a high-voltage power supply and current-limiting circuit. Once the capacitor is charged the power supply HV output is disabled and an insulated screw driver is used to short the capacitor terminals. The result is a very loud and visible electrical discharge. Charging to the full rated voltage of the capacitor, 2500 V, is not recommended for safety reasons. It is not necessary to disconnect the charging leads during the demonstration.

7, toolbox

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