

Wyatt Vick
Turn Baby Turn

The purpose of this project is to confirm the highest amount of RPM's this simple DC motor can put out using different voltages of batteries. The researcher hypothesized that the battery pack, containing 6 volts, would create more RPM's. A simple reed switch motor was built using copper wire a reed switch and an electromagnet. To test the motor the researcher used a tachometer used for measuring RPM's. The motor was tested with 3volts, 4.5volts, 6 volts, 9 volts, and 18 volts. The data collected refuted the hypothesis as the tachometer showed zero RPM's for 3 volts, 4.5 volts and 6 volts. The fastest RPM's were noted with 9 volts showing 991 RPM's and 18 volts showing 1,883 RPM's. In conclusion, the increase in RPM's was directly related to the increase in voltage.