

Build-your-own-motor

Norbert Doerry

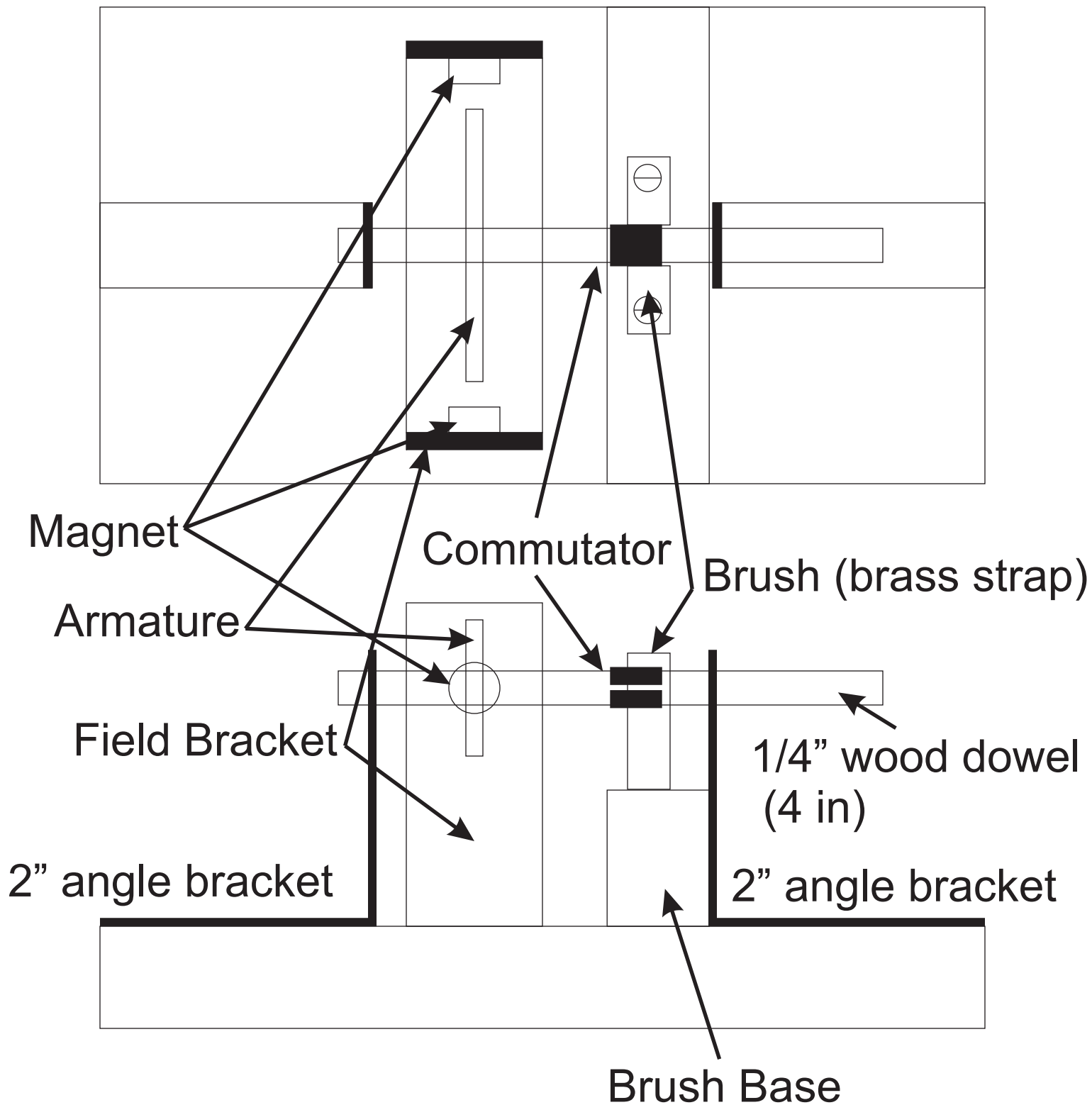
January 2014

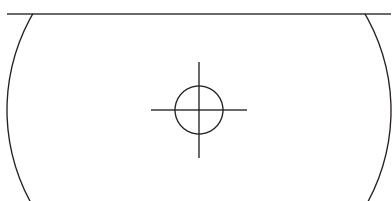
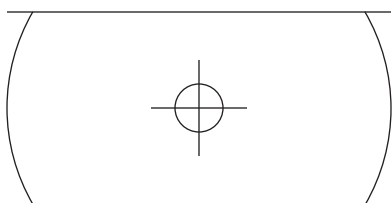
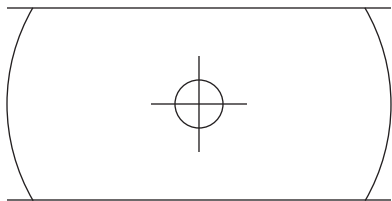
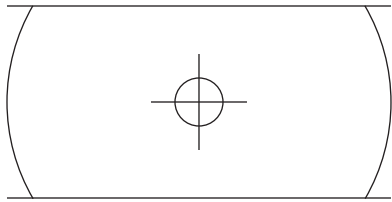
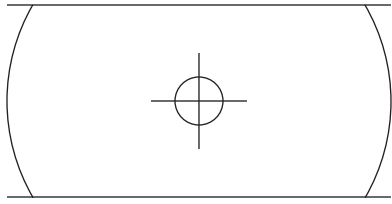
Base is 3/4" by 3.5" by 6.5" wood

Base for brush is 3/4" by 1" by 3.5" wood

Magnets are ~3/8" round rare-earth magnets

The upper hole in each angle bracket was drilled out using a 17/64" bit

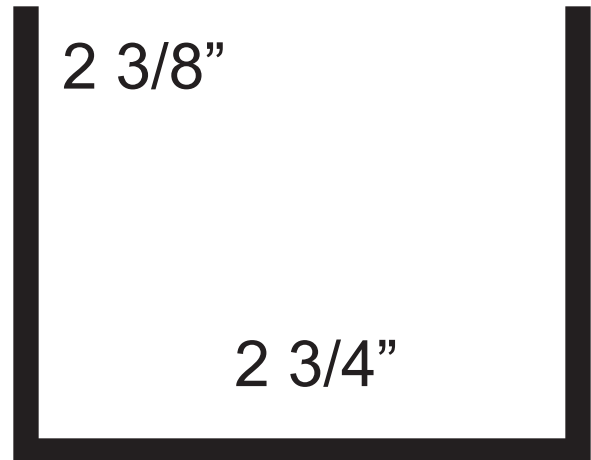




Rotor

Template (1/8" steel bar stock)

Wind 100 turns
of 22 AWG Magnet Wire
(about 21 feet);
solder ends of wire to
commutator



Field Bracket

7.5" of 1/8" steel
bar stock 1" wide
(Note, can also use
3/4" wide bar)

Brush is a brass
sheet (should be
"springy") about
3/8" wide by 1 3/8"
long