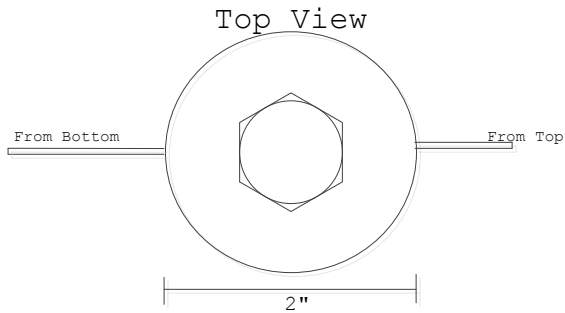
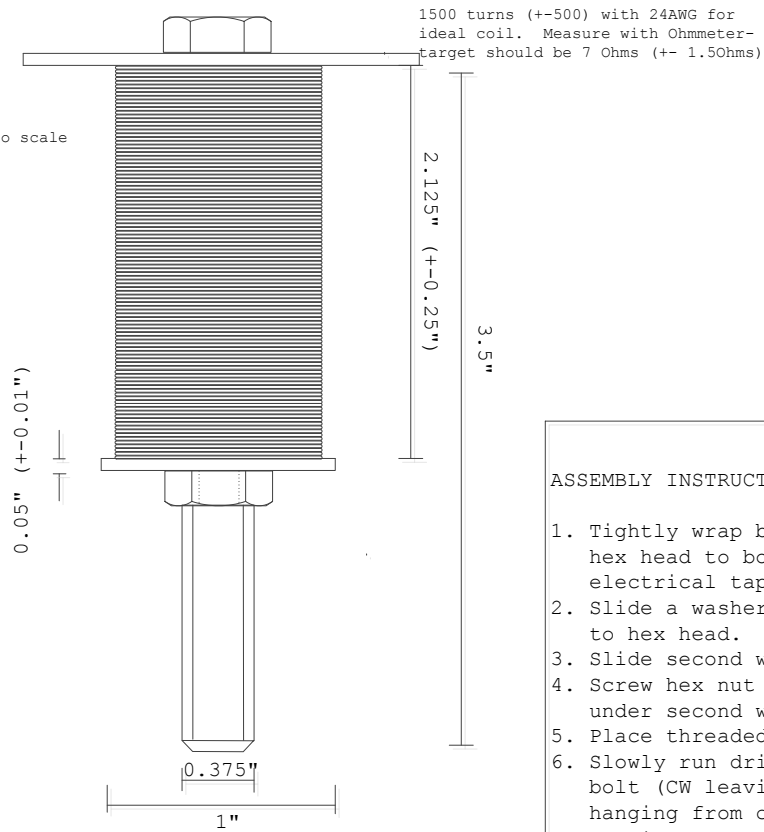


Cross-Sectional View



Side View



ASSEMBLY INSTRUCTIONS

1. Tightly wrap bolt from bottom of hex head to bottom of bolt with electrical tape.
2. Slide a washer up bolt. Fit snugly to hex head.
3. Slide second washer 1 3/8" up bolt.
4. Screw hex nut into place, just under second washer.
5. Place threaded end of bolt in drill
6. Slowly run drill and spin wire onto bolt (CW leaving 12" (+/- 1") wire hanging from coil). Once one layer one is done, continue layering until 8" (+/- 1") of wire remains or 1200 turns has been achieved.
7. Tightly wrap exterior of coil in electrical tape until thoroughly covered.

Description	#	Part Number	Supplier
Zinc Hex Bolt 3/8" x 3-1/2"	1	203151766	Home Depot
Stainless Steel Hex Nut 3/8"-16	1	882021	Lowes
Flat Washer 3/8" Screw Size, 1" OD	1	91525A136	McMaster-Carr
Electrical Tape - Black	3'	39340	Lowes
24 AWG Magnet Wire	300'	7588K77	McMaster-Carr
Flat Washer 3/8" Screw Size, 2" OD	1	91525A143	McMaster-Carr

TITLE:	Solenoid Design	REV:	3
AUTHOR:	Kevin Fronczak	P13321-DRW-SLNDV	