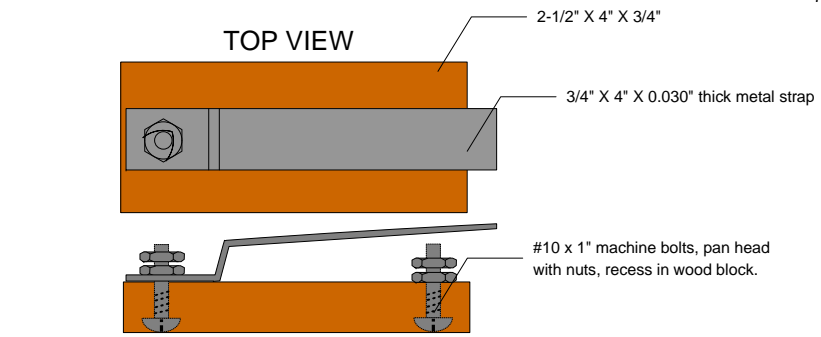


**TELEGRAPH BODY**

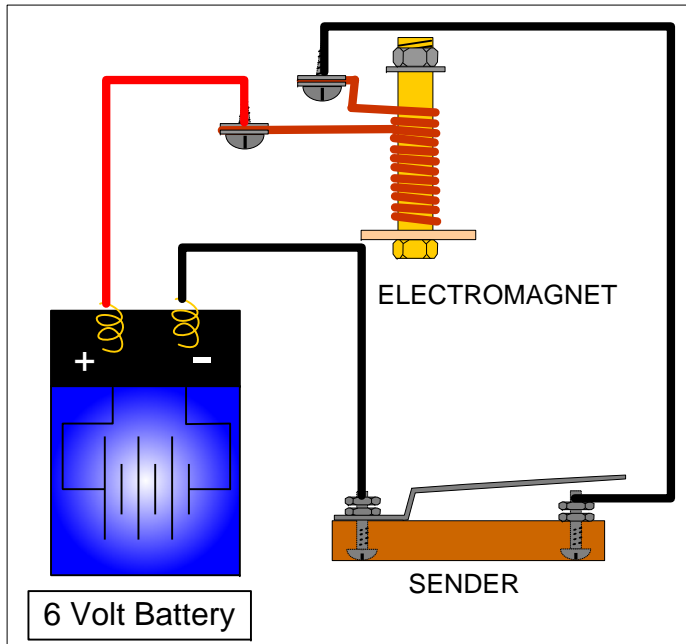
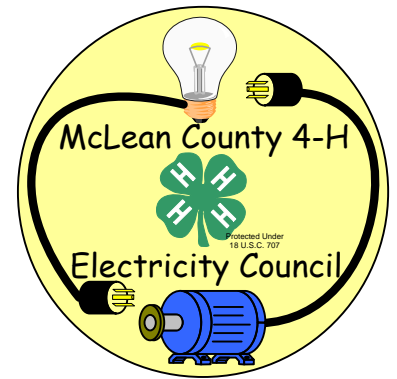
SIDE VIEW

BACK VIEW



SIDE VIEW

**SENDER DETAIL**



**WIRING DIAGRAM**

**Project Notes**

- 1.) Telegraph and Sender are made of 3/4" thick oak or other wood.
- 2.) Glue and wood screws can be used to fasten wood pieces together. Recommend top be removable for adjusting.
- 3.) The telegraph arm must move up and down freely, drill out 5/16" hole for dowel rod.
- 4.) Wood washer is made from a 7/8" hole saw with 1/4" drill bit. Don't use metal washer as it can weaken electromagnet strength.
- 5.) Electromagnet is wound with 24 gauge magnet wire about 6-8 tight layers after bolt is installed on top piece.
- 6.) Adjust gap between electromagnet and arm by adjusting wood screw to 1/4" to start.

Telegraph Project  
Date: 2/13/2006