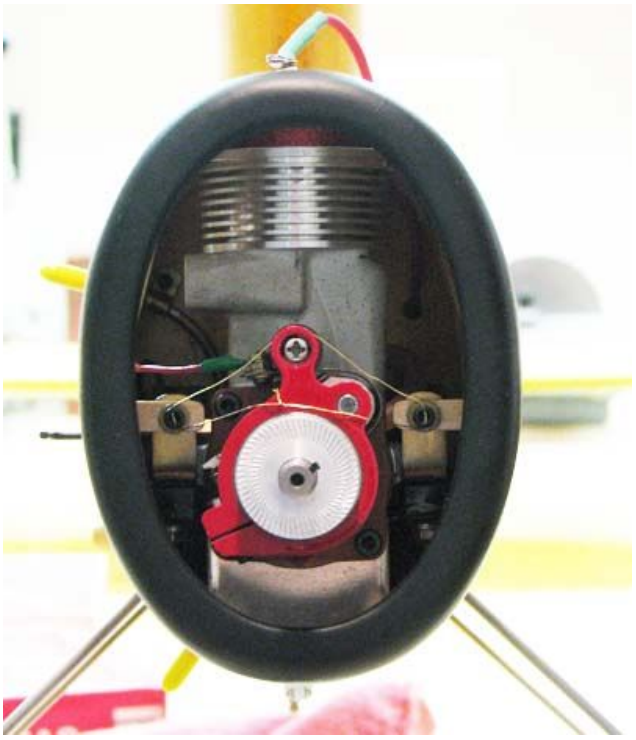
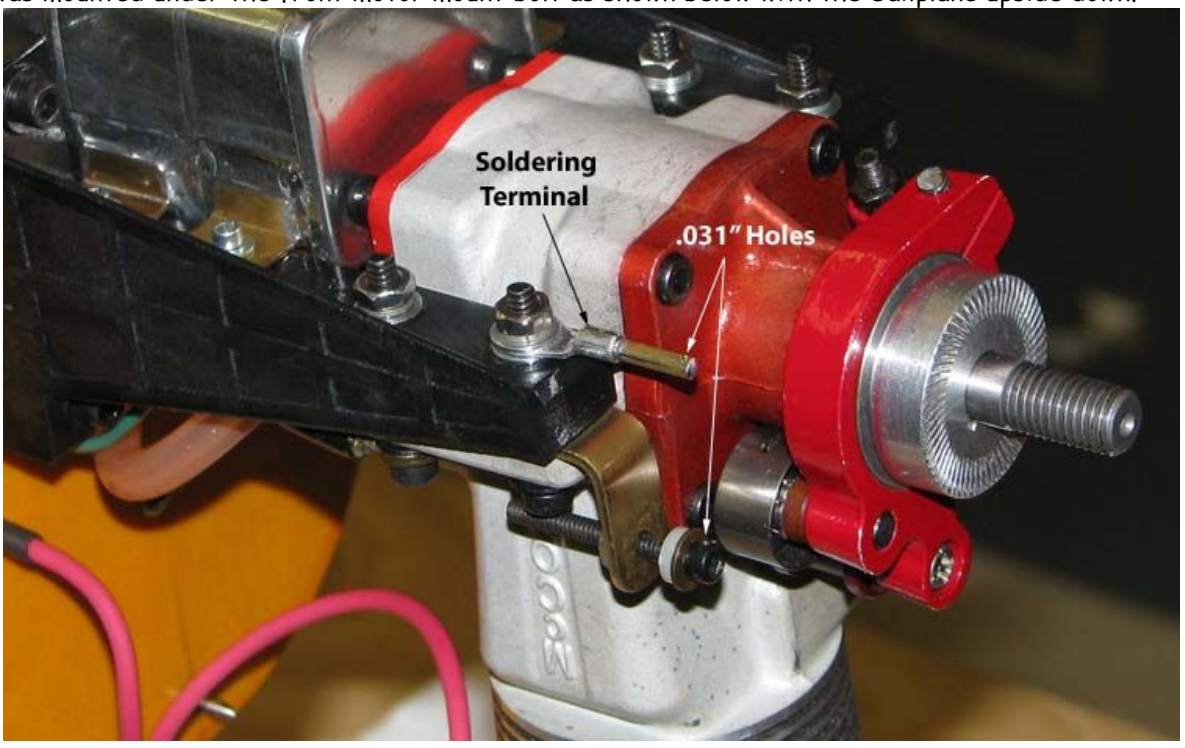
From:	"Tandy C. Walker" <tandyw@flash.net>
To:	"Lollar, James" <jlollar@cableone.net>
Date:	8/23/2010 1:51:08 PM
Subject:	179 Securing the Cowl on the Sailplane using the Drilled Head 4-40 Allen screws

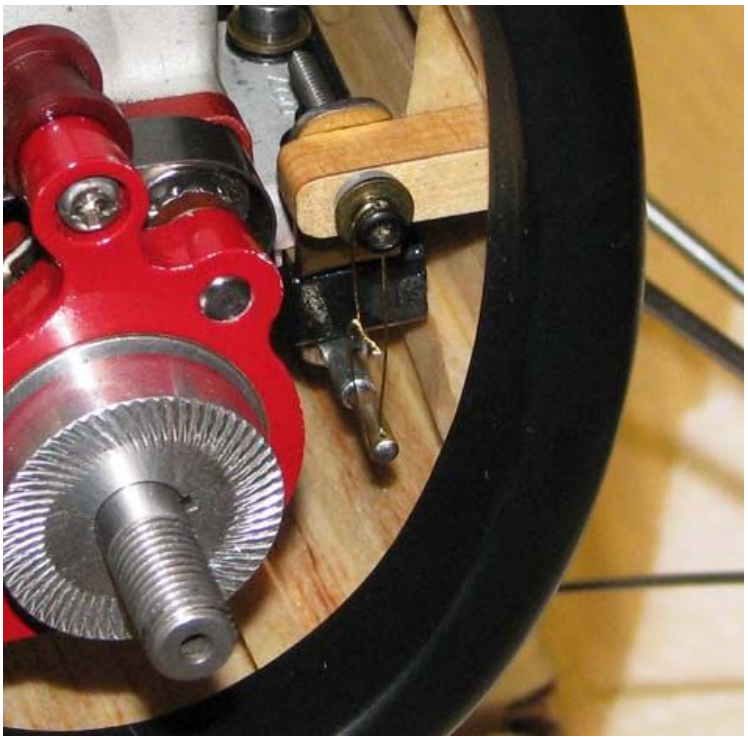
James,
I sent you an e-mail yesterday with the picture below showing the routing of the safety wire over the timer spool, which I was not happy with. After thinking about this overnight, I came up with a different solution that I like much better.



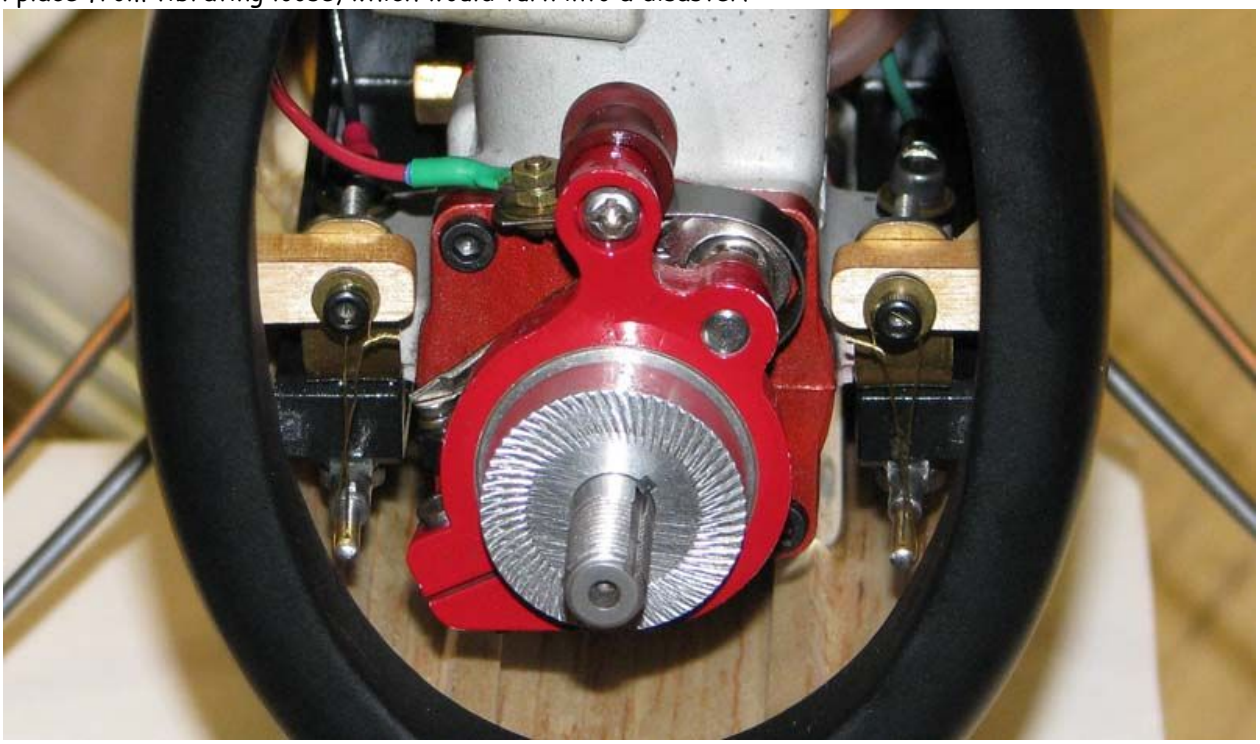
This morning I made a bracket by soldering a piece of 1/8" brass tubing in a wire terminal. I drilled a .031" hole through the end of the brass tube for the safety wire to go through and soldered the end of the tube closed. This bracket was mounted under the front motor mount bolt as shown below with the Sailplane upside down.



I first ran the safety through the holes in the bracket and the screw that holds the cowl on and twisted the ends together. The safety wire forms an open loop as shown below.



However, I discovered that if cross the safety wire over itself forming a figure "8" as shown below I could get a much tighter loop when I twisted the ends together. The safety wire loops prevents the two 4-40 screws holding the cowl in place from vibrating loose, which would turn into a disaster!



This shows the final cowl installation with the prop and spinner installed.....Tandy