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**25 Second 1/2A Fubar 600 - Cowl Construction (Part 2)**

1 message

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Report No. 25

*Second 1/2A Fubar 600**February 22, 2020*

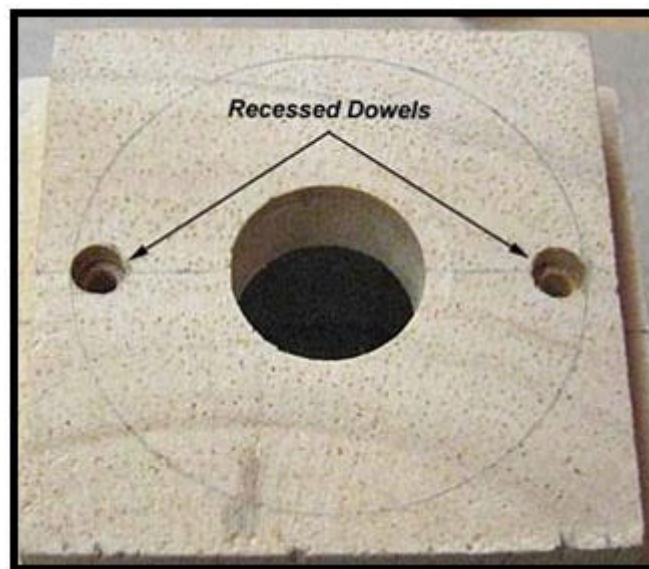
The cowl attachment screws need a hard wood insert for the screw head to press against to prevent crushing the wafer's end grain balsa. A 1/4" hardwood dowel was selected because it's diameter was slightly larger than the screws socket head. A 5/16" length of the dowel was cut off to provide a 1/8" recess in the 7/16" wafer for the attachment screw head.

As you probably have experienced, wooden dowels are seldom if ever perfectly round. A dowel holder was made by drilling a 1/4" hole in a piece of scrap maple block on the drill press and then forcing the dowel into the hole.

A series of ever increasing diameter drill bits were used to drill out the center of the dowel with a No. 33 drill bit being the size required for the long 4-40 screw to pass through. The dowel never tried to turn in the drill holder hole because it was not perfectly round. This picture shows the finished hard wood dowel inset with the long 4-40 screw inserted through the hole in the center.



This picture shows the two wooden inserts glued in the cowl wafer with aliphatic glue.



Four 1/16" piano wire alignment cowl pins were cut to length and inserted into the predrilled holes in the firewall. These cowl pins extend out 1/8" from the face of the firewall to position the cowl. Then various size balsa blocks were glued together to form the cowl blank shown below.....Tandy

