



Trevor Boundy <trevor@boundy39.com>

4Scaled Up 1/2A Fubar 375 - Fuselage Scaled Drawing

1 message

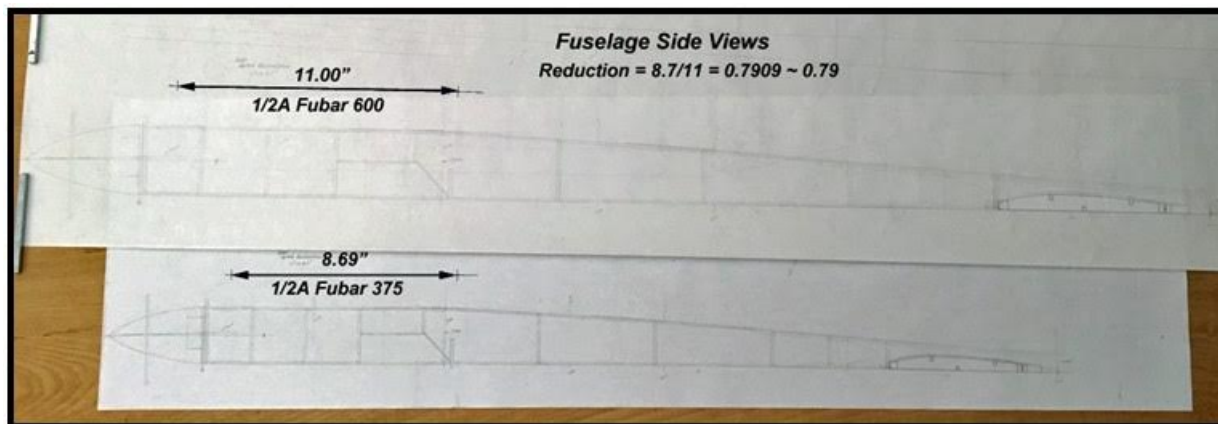
Tandy Walker <rdb435021@icloud.com>
To: Tandy Walker <rdb435021@icloud.com>

Scaled Up 1/2A Fubar 375

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The scale factor for reducing the 600 sq. in. 1/2A Fubar plan down to a 375 sq. in. 1/2A Fubar plan is 0.7907. Since there are 0.1" divisions on an engineering scale, I searched for two numbers that when divid would be 0.7907. I came up with $8.7/11 = 0.7909$, only a + 0.0002 difference. An 11" line was drawn on the 600 sq. in. plan as shown below. However, our the copy center can only enter a scale factor to the nearest 0.01 or (1%) so they were to use used 0.7900, which is a difference of - 0.007, which is still acceptable.

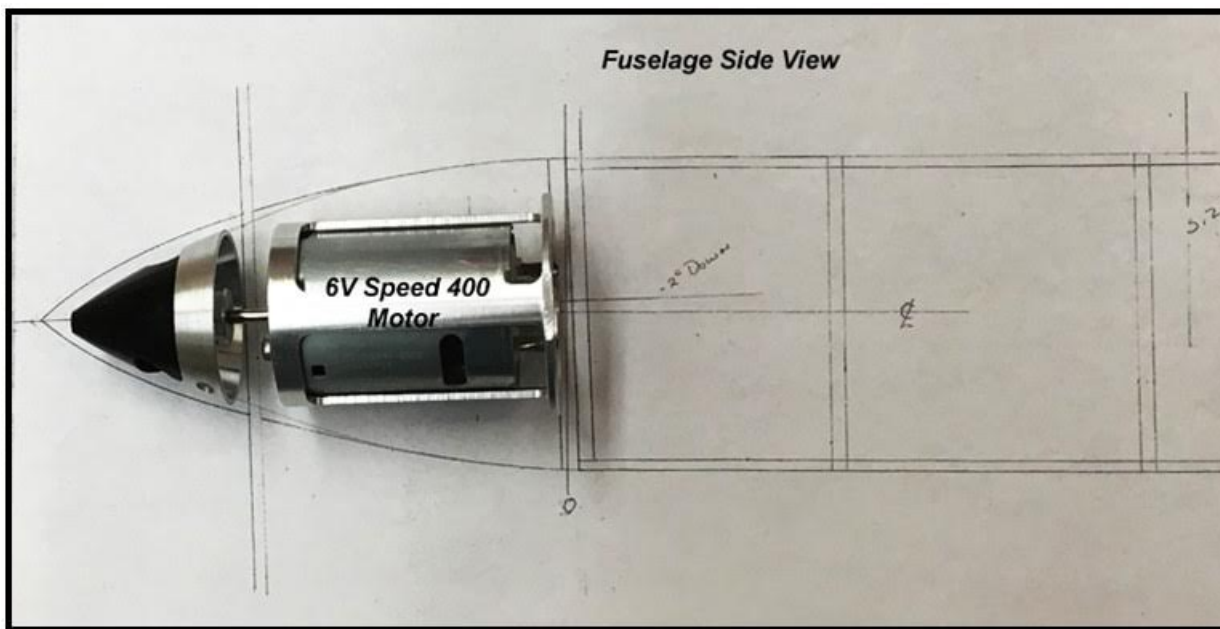
I told Stan, the operator, it was OK to reduce the drawing by a factor of 0.79. However, he said: "Do y really want to reduce your drawing 79%"? It seemed to him that the reduction in the drawing should only t (100% - 79%) = 21%. You know what, Stan was right!....DUH When he printed out the reduced drawing with 21% reduction, the 11.00" line then measured 8.69" as shown below which is close enough to 8.7" for my purposes.



The copy center charged me \$5.44 to reduce and print this fuselage side view drawing as shown below



A Speed 400 motor was mounted in the Kramer aluminum motor mount and the 30mm Graupner spinner was attached to the motor's 2.3mm shaft. The unit was placed on the reduced drawing and aligned with -2° down thrust line for a test fit. As you can see below, the fit is darn near perfect.



The spinner and cowl on the drawing were then faired in as shown below.....Tandy

