The Goldberg Ranger 28 is basically a scaled up Ranger 21 that uses a tissue covered built up structure. The structure is fairly unique as it does not use traditional sticks for the fuselage framing. The fuselage structure is made from pieces of 1/16" balsa fit together like a jigsaw puzzle. The original kit plan does not show a profile view of the fuselage. Assembly of the fuselage sides depends on the fit of the die cut parts. This drawing package does include a fuselage profile drawing to help make sure the sides are assembled properly and are the same.

Two modifications have been made to the layout of the model from the original configuration. The first change was to fuselage parts 1, 5, 12, and 16. These parts were too long to fit on letter or legal size printer paper. As a result those parts were separated into two pieces each. When assembled they do match the original parts.

The other modification made was to change parts 32 and 33 that make up the fuselage nose former. The original kit included a vacuum formed nose piece that supported the prop bearing/nose button. That arrangement is really not necessary so a drawing for a vacuum formed part has not been included. The opening in formers 32 and 33 has been changed from a circle to a square set on edge. This allows for a removable nose plug that fits in the opening in the former. A sketch of the suggested nose plug configuration is included in the drawing package.

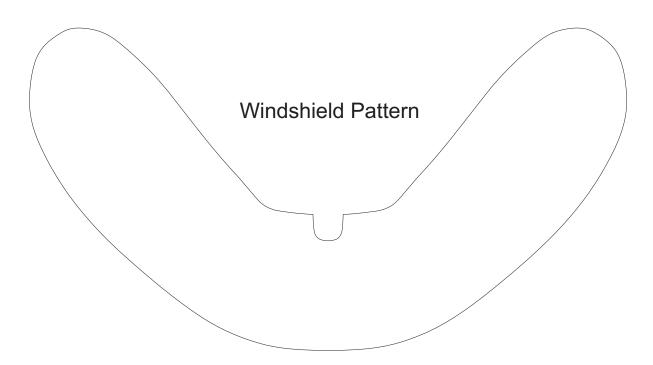
The kit Ranger 28 used 1/16" balsa for all of the parts cut from sheet wood. Structurally it is important to retain 1/16" balsa in the assembly of a model from this drawing package. If you are able to print the parts directly on balsa it will likely be limited to 1/32" material. This is not a problem. Print the provided part layouts on 1/32" balsa. Once printed laminate each printed sheet with another sheet of 1/32" balsa. Use of a spray contact glue makes that process very easy with little weight gain.

This package has been organized to print on letter (8 $\frac{1}{2}$ " x 11") and legal (8 $\frac{1}{2}$ " x 14") sheets. The assembly plan sheets print on the letter size sheets. The parts layouts and the tiled image of the original kit plan print on legal size sheets. It is important that when printing the sheets you have print scaling set to none.

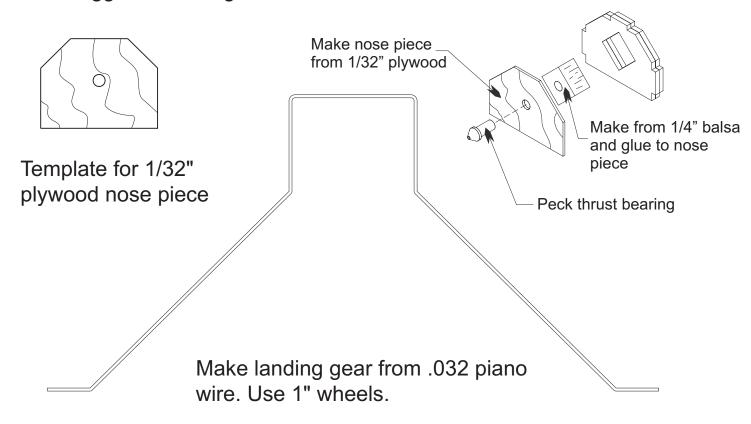
The Ranger 28 has the potential for very good performance. Build it straight and light and watch out for passing thermals.

I do hope you build and enjoy a model from this plan package.

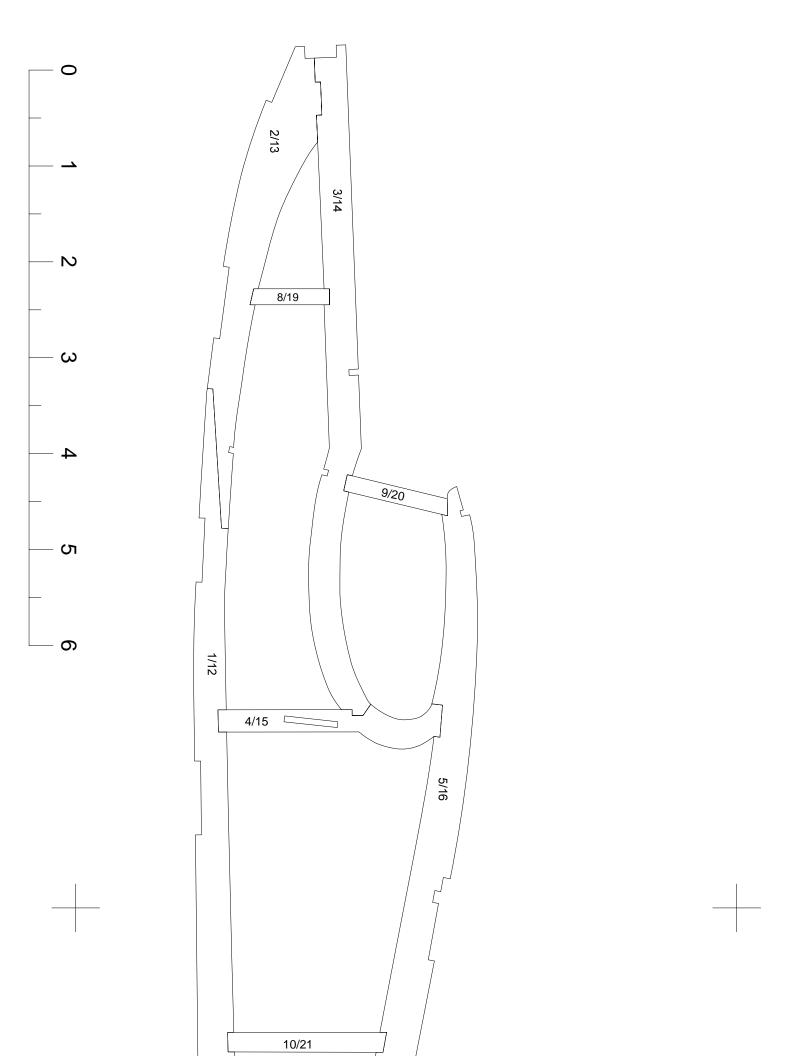
Paul Bradley

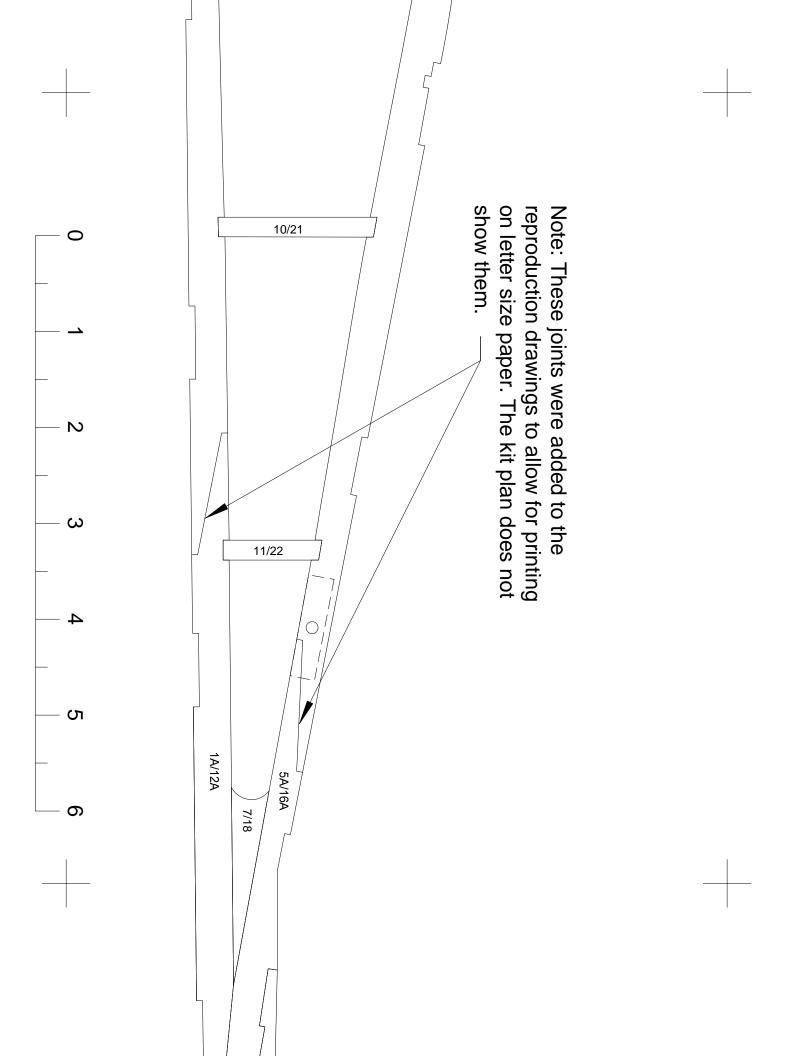


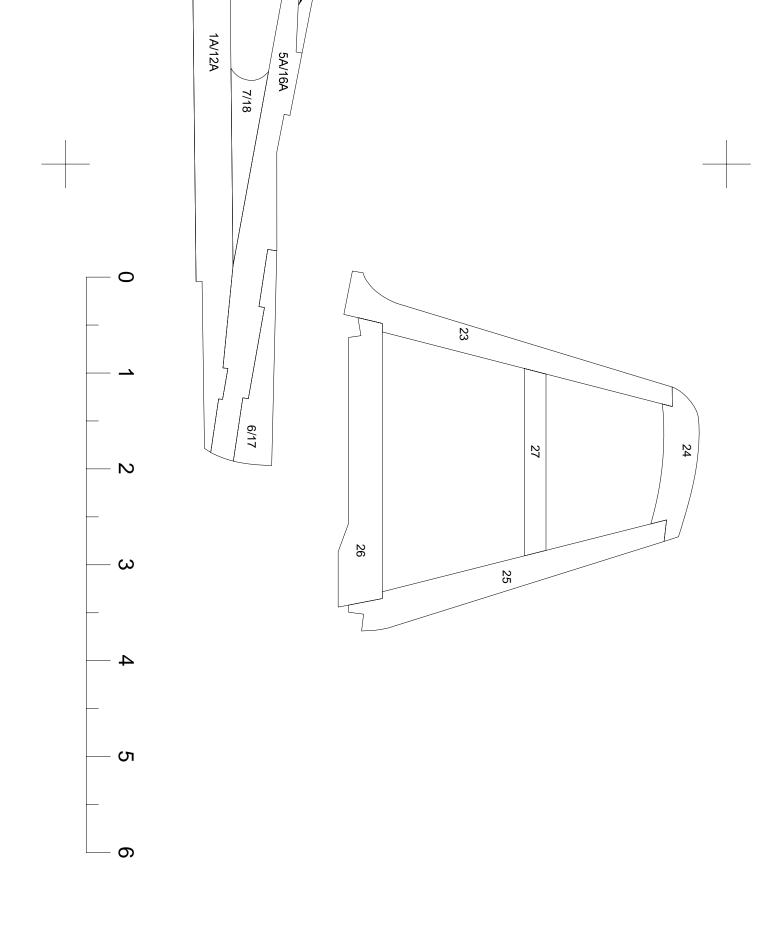
The kit came with a 7" plastic prop and vacuum formed nose piece. The vacuum formed piece is not necessary. Formers 31 and 32 have been drawn for use of a removable nose plug to facilitate stretch winding the rubber motor. A sketch of a suggested arrangement is shown here.

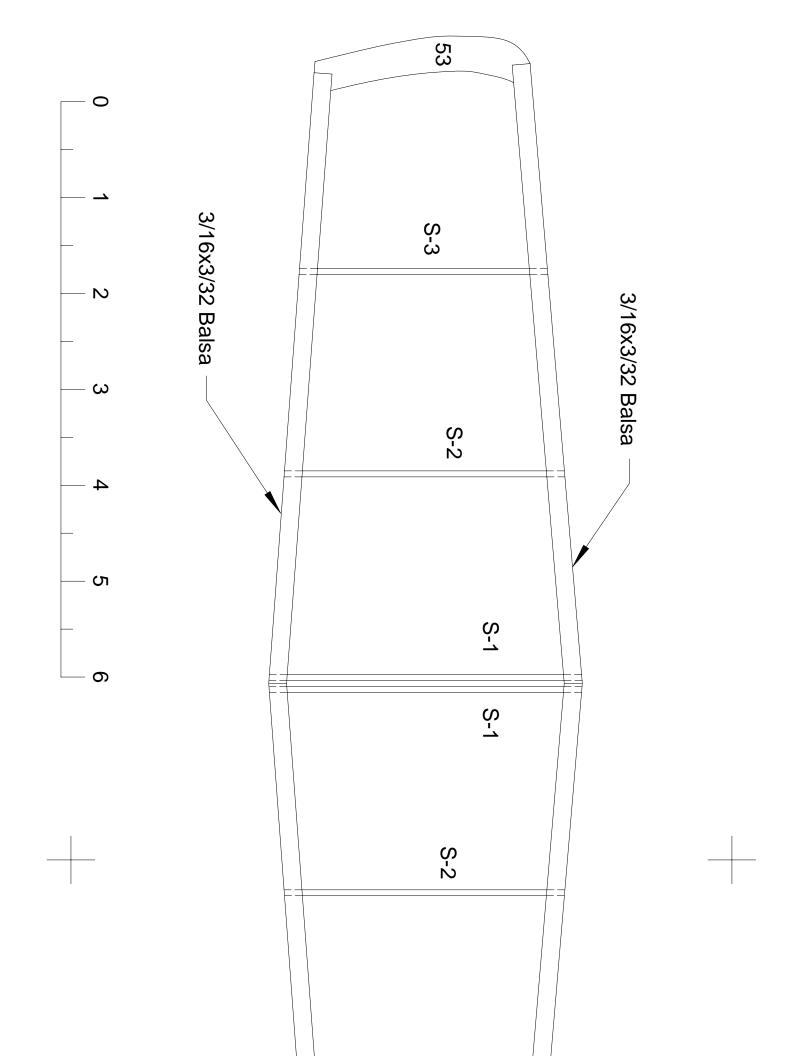


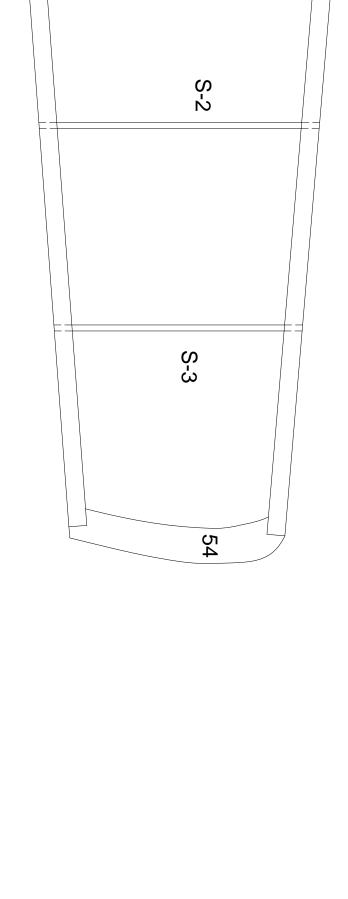
Ranger 28



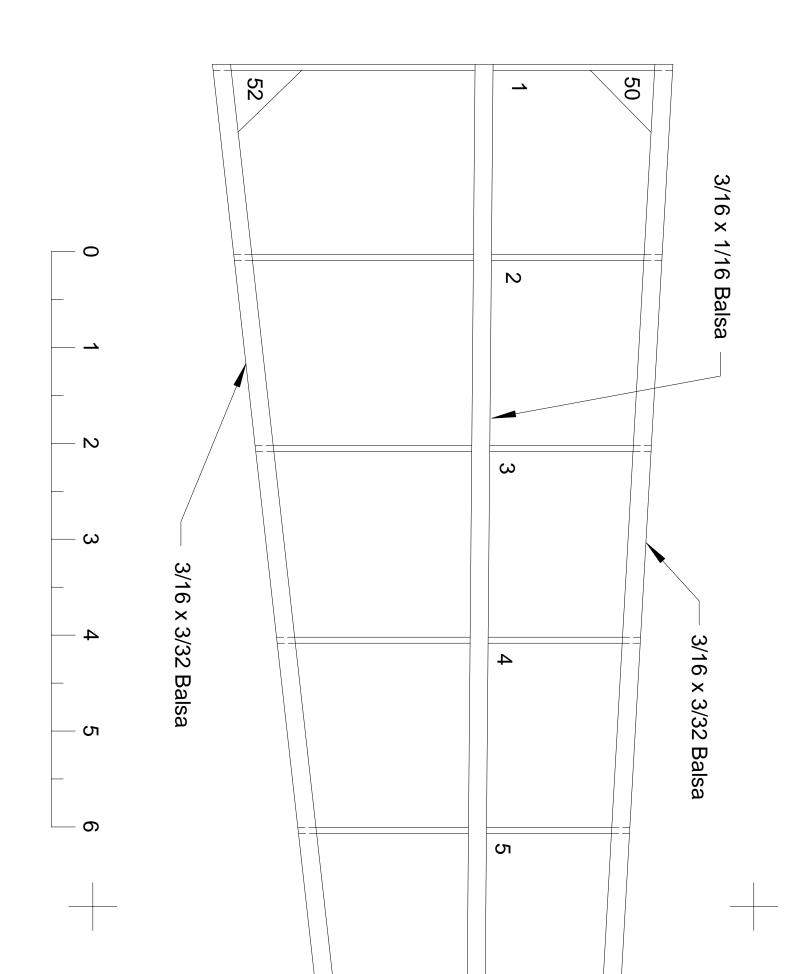


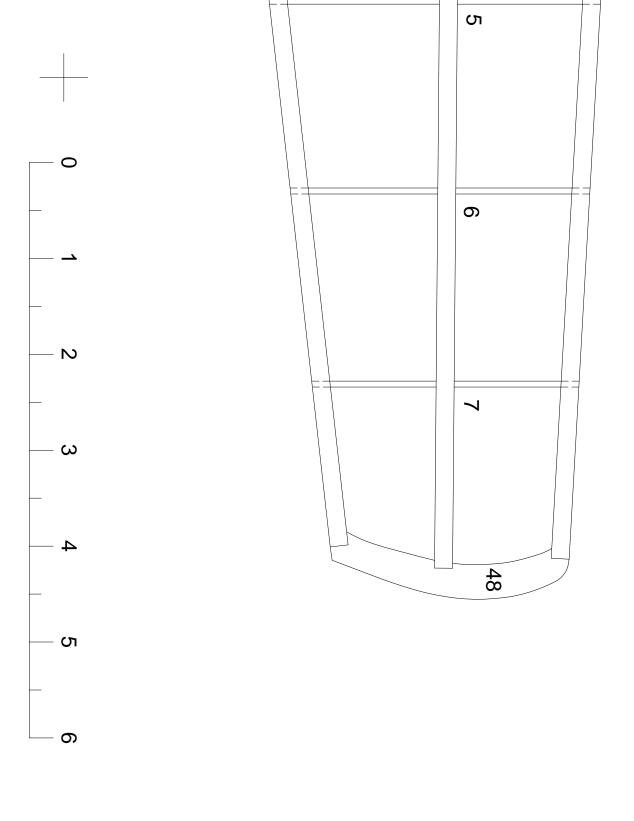


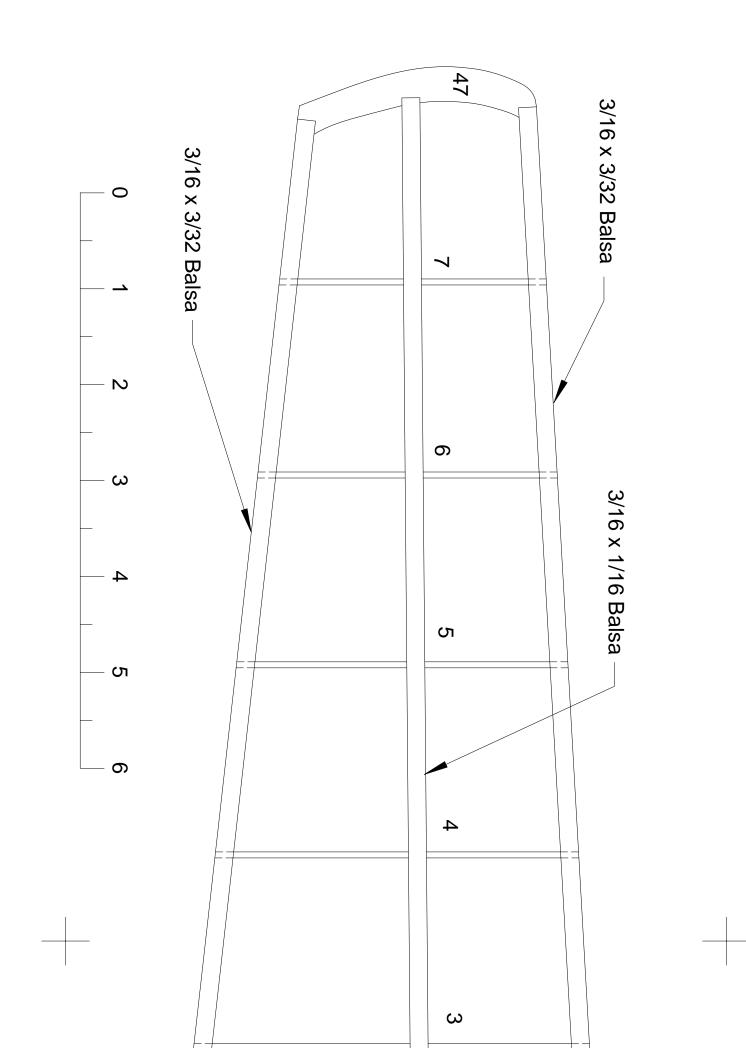


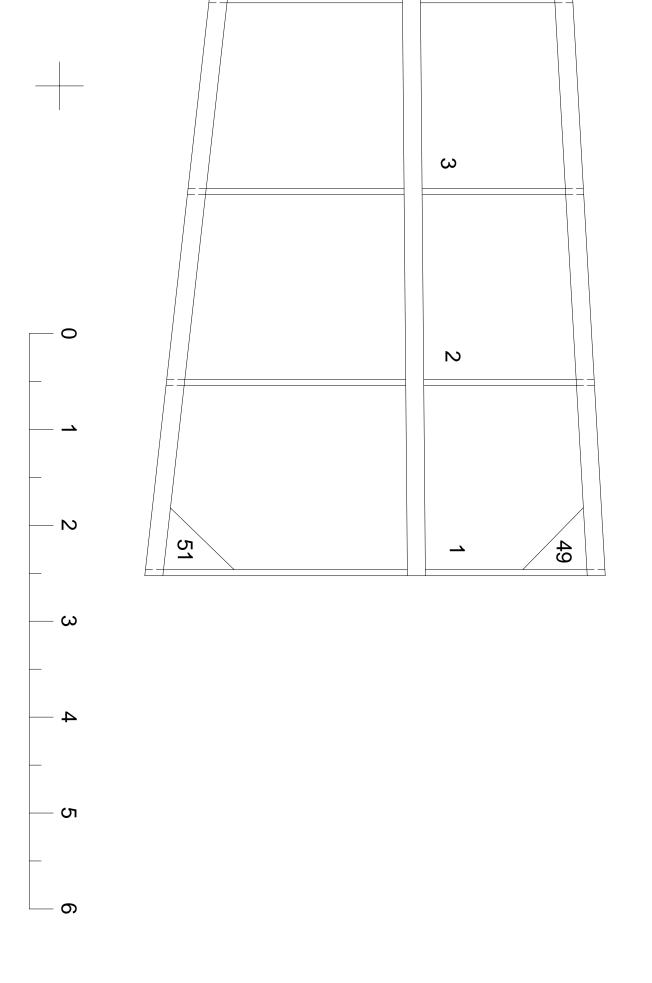


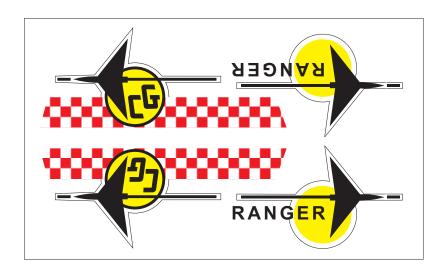
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Ranger 28 Decal Set

