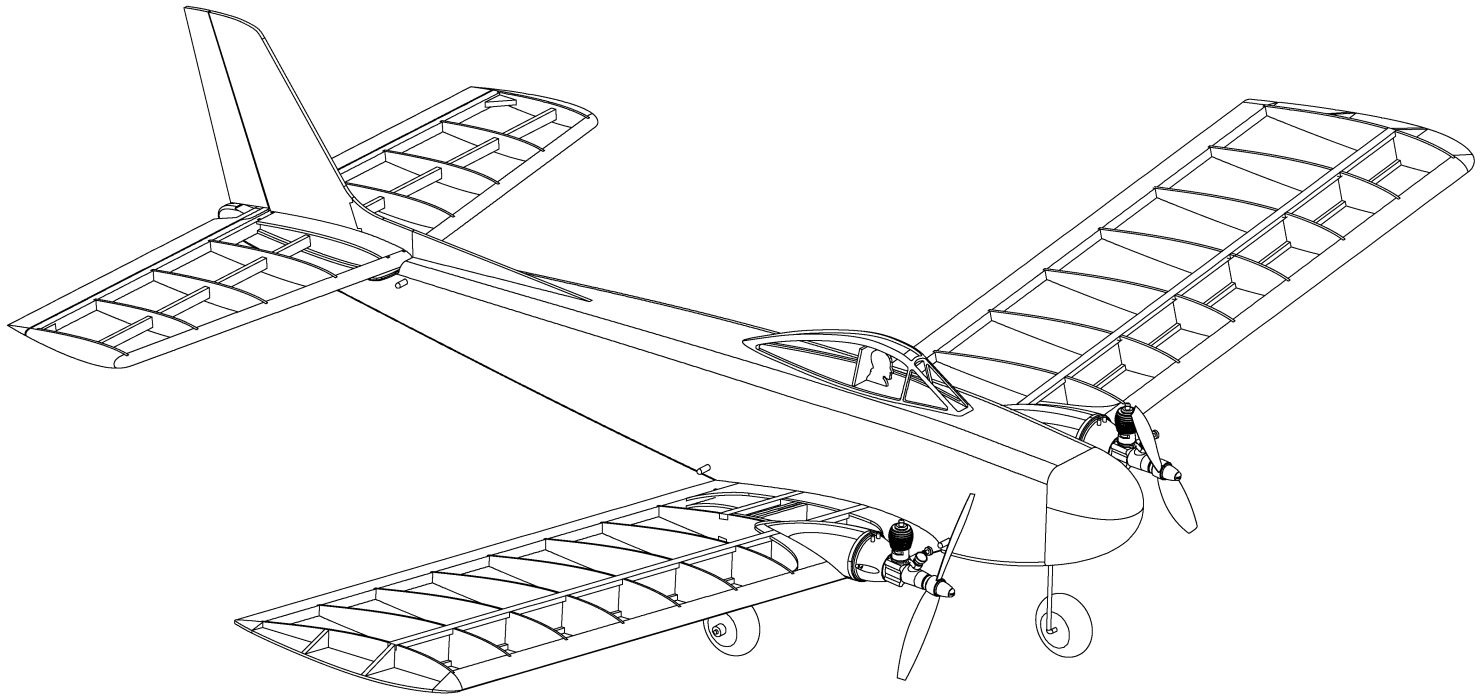


# JR. SKYLARK

*By Carl Goldberg*



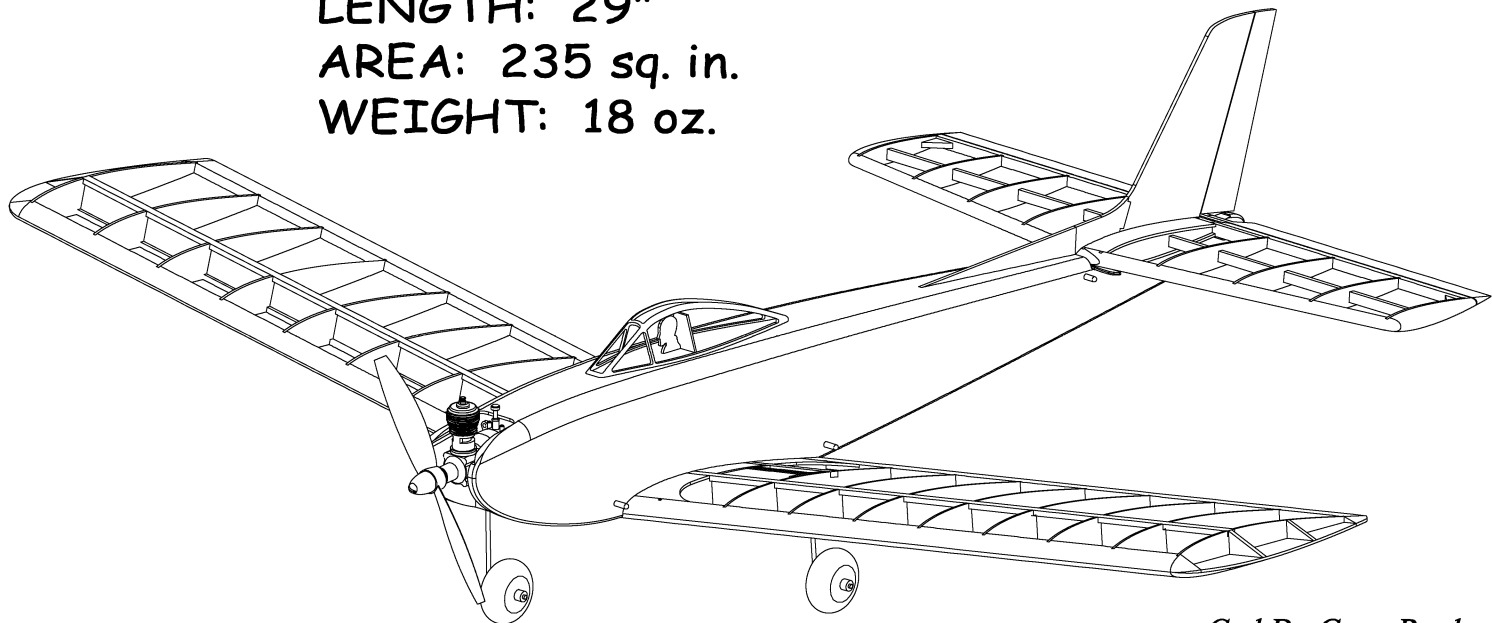
optional single or twin engine R/C  
FOR .010 -- .049 ENGINES

SPAN: 37"

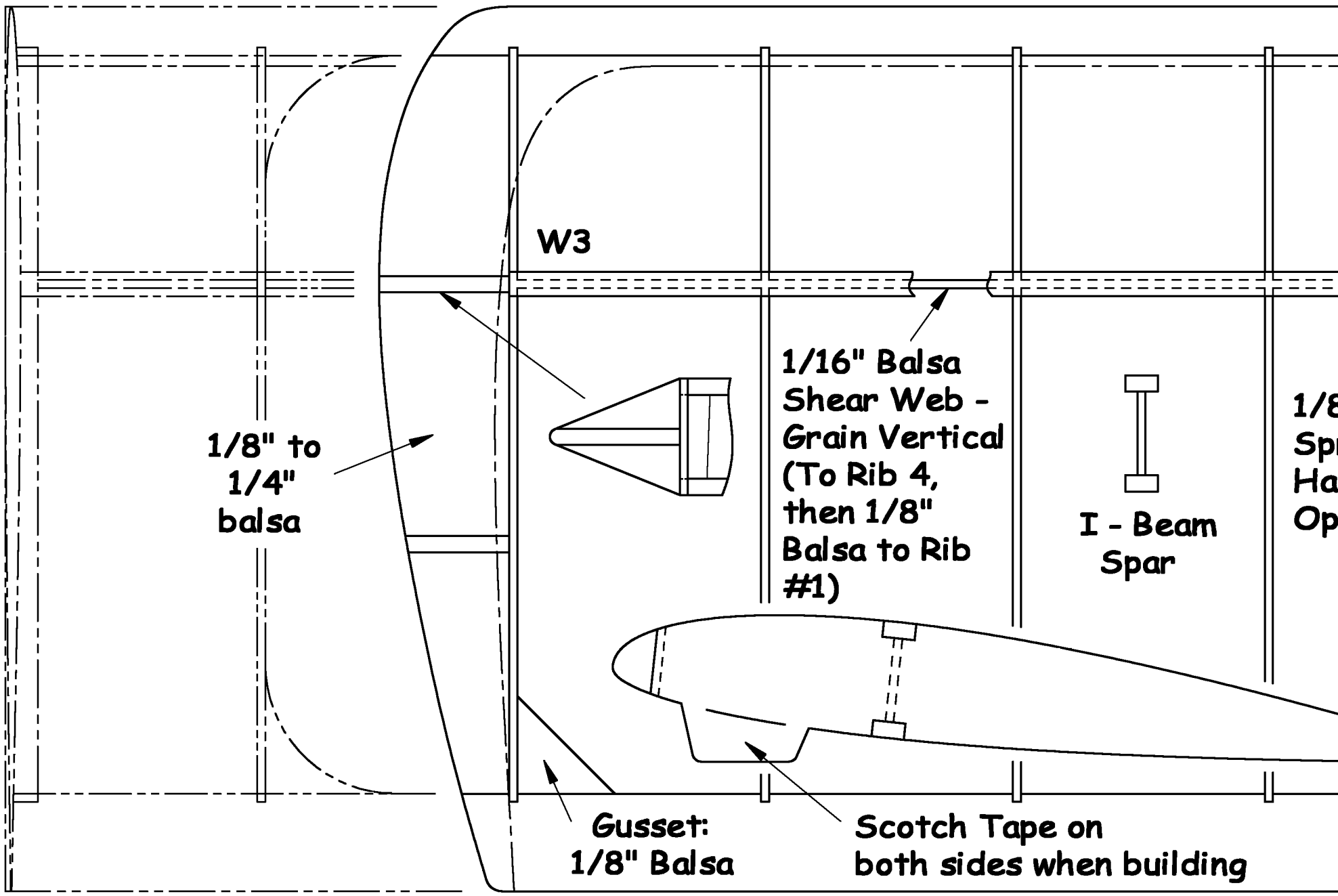
LENGTH: 29"

AREA: 235 sq. in.

WEIGHT: 18 oz.



*Cad By Gene Rock*



**W3**

**1/8" to  
1/4"  
balsa**

**1/16" Balsa  
Shear Web -  
Grain Vertical  
(To Rib 4,  
then 1/8"  
Balsa to Rib  
#1)**

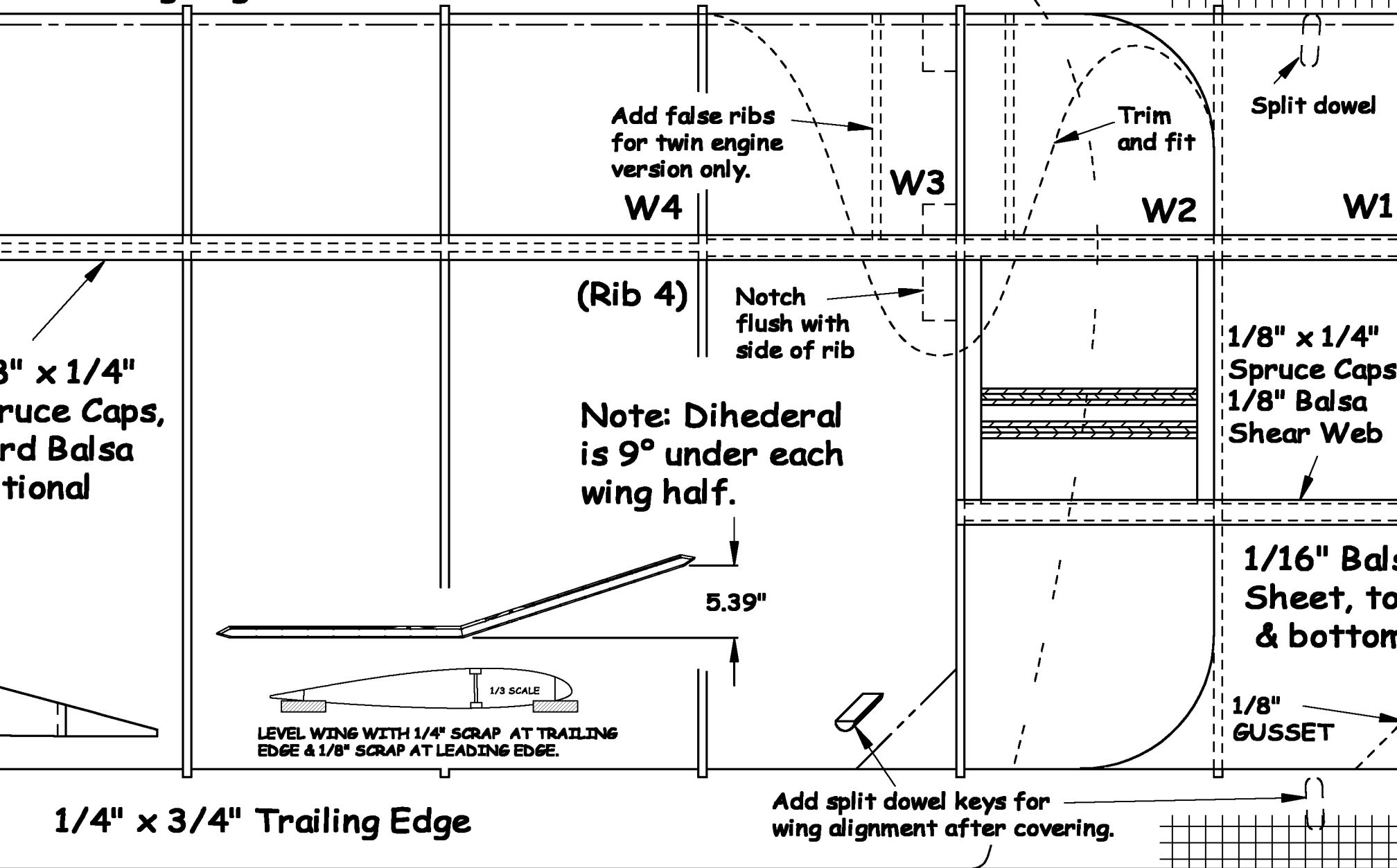
**I - Beam  
Spar**

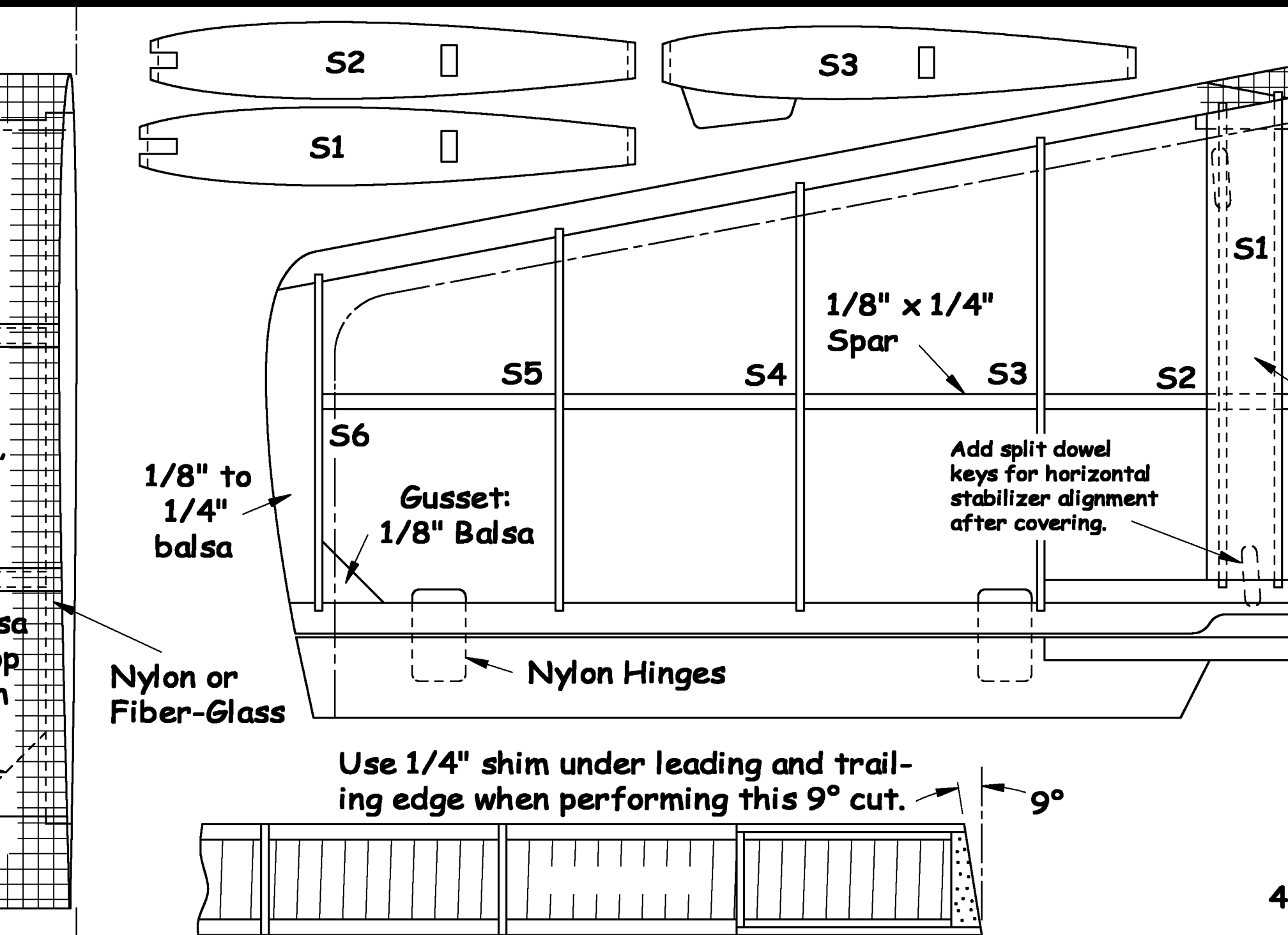
**1/8"  
Sp  
Ha  
Op**

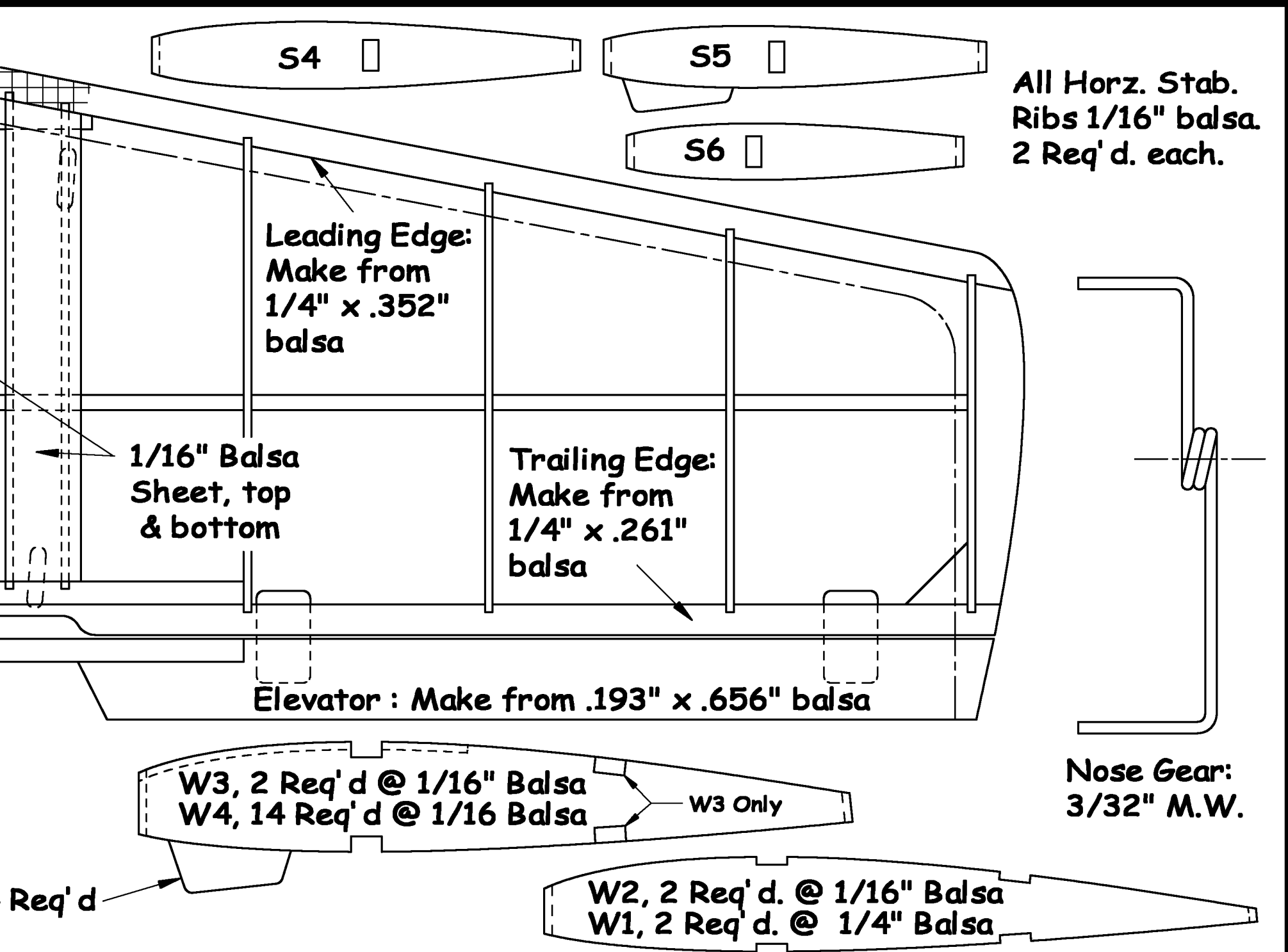
**Gusset:  
1/8" Balsa**

**Scotch Tape on  
both sides when building**

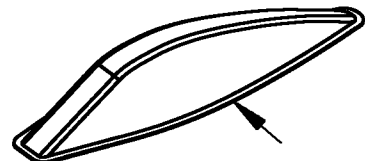
**Leading Edge: Make from 3/8" x .540" balsa**



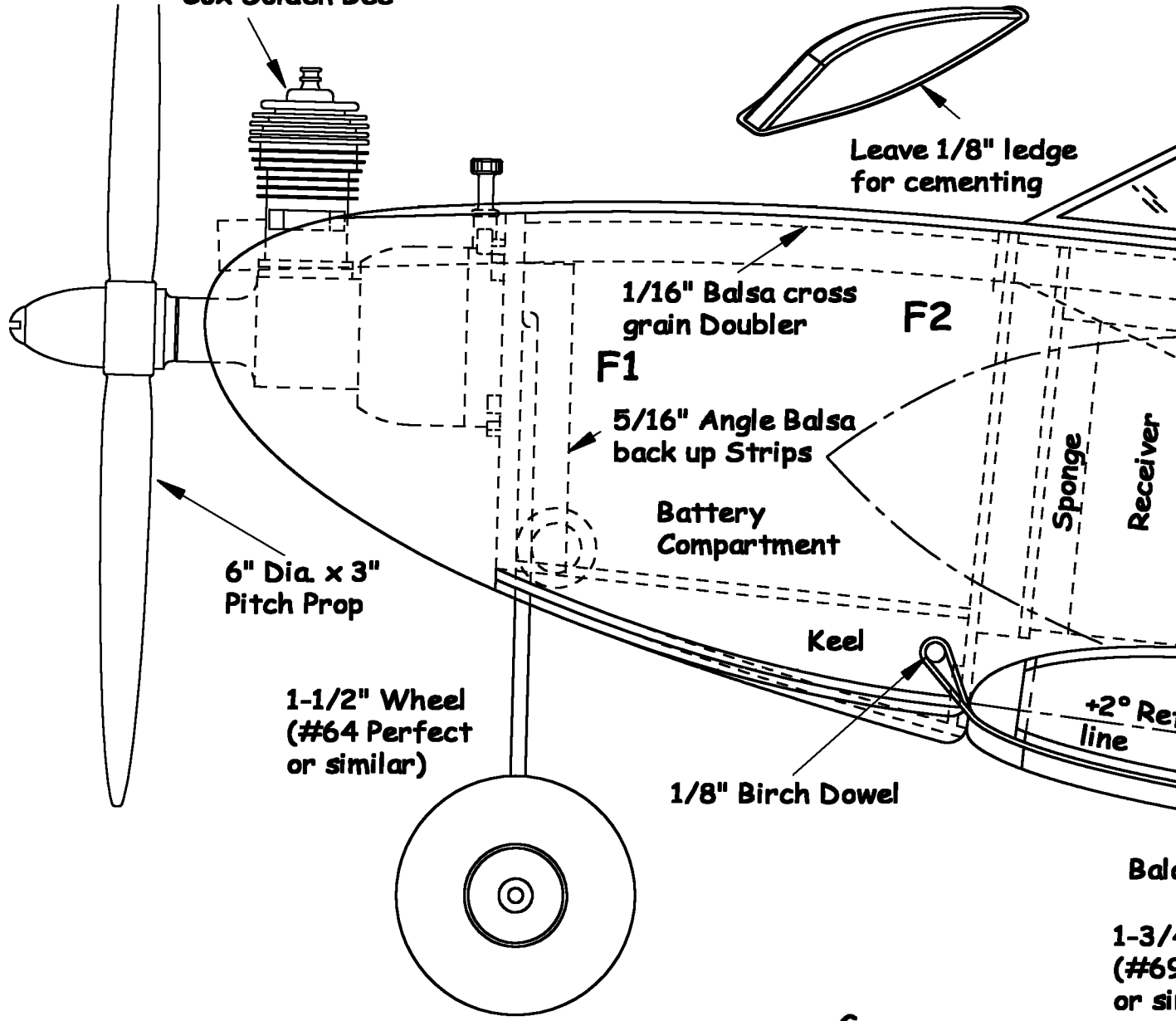




Cox Golden Bee



Leave 1/8" ledge for cementing



1/16" Balsa cross grain Doubler

F2

F1

5/16" Angle Balsa back up Strips

Battery Compartment

Sponge

Receiver

6" Dia. x 3" Pitch Prop

1-1/2" Wheel (#64 Perfect or similar)

Keel

+2° Re line

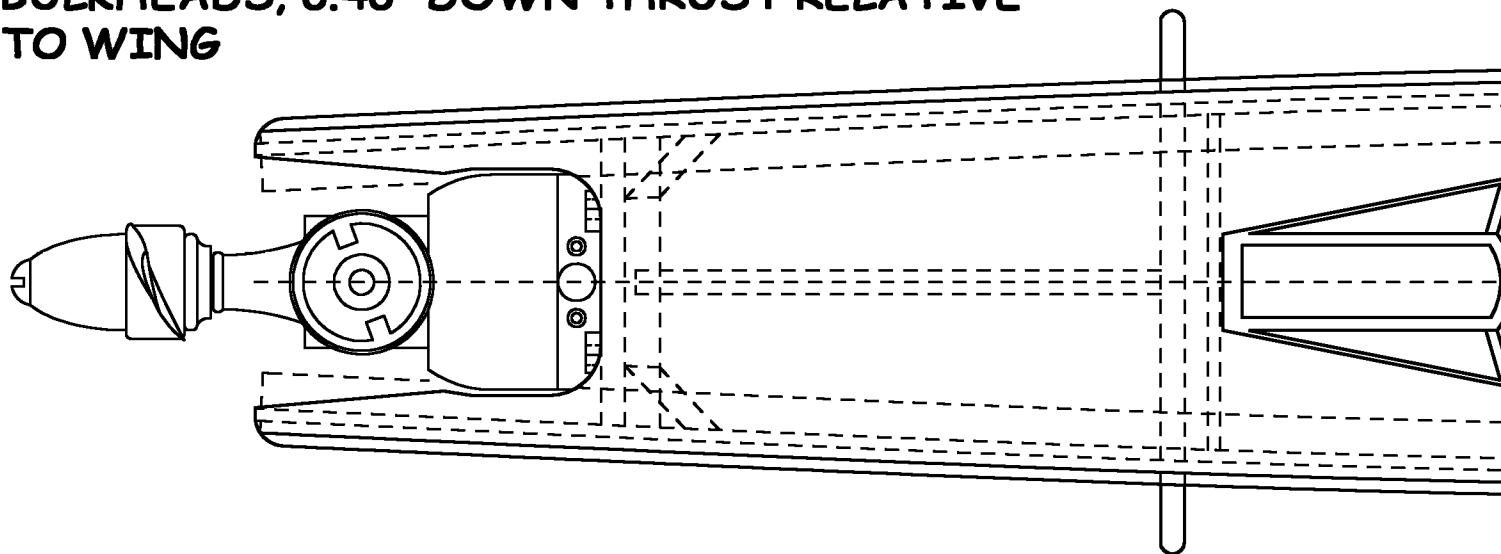
1/8" Birch Dowel

Bal

1-3/4 (#69 or si

Ground reference line

NOTE: FUSELAGE SHOWN ROTATED 6° CW. MOTOR DOWN THRUST: 4.46° RELATIVE TO BULKHEADS, 6.46° DOWN THRUST RELATIVE TO WING



Scrap 1/16" Balsa Backrest



Optional Pilot figure

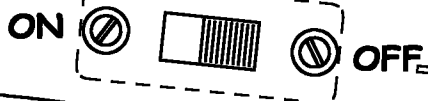
5/16" Balsa Tr

Surround Receiver with Sponge

Escapement

White Pin

Red



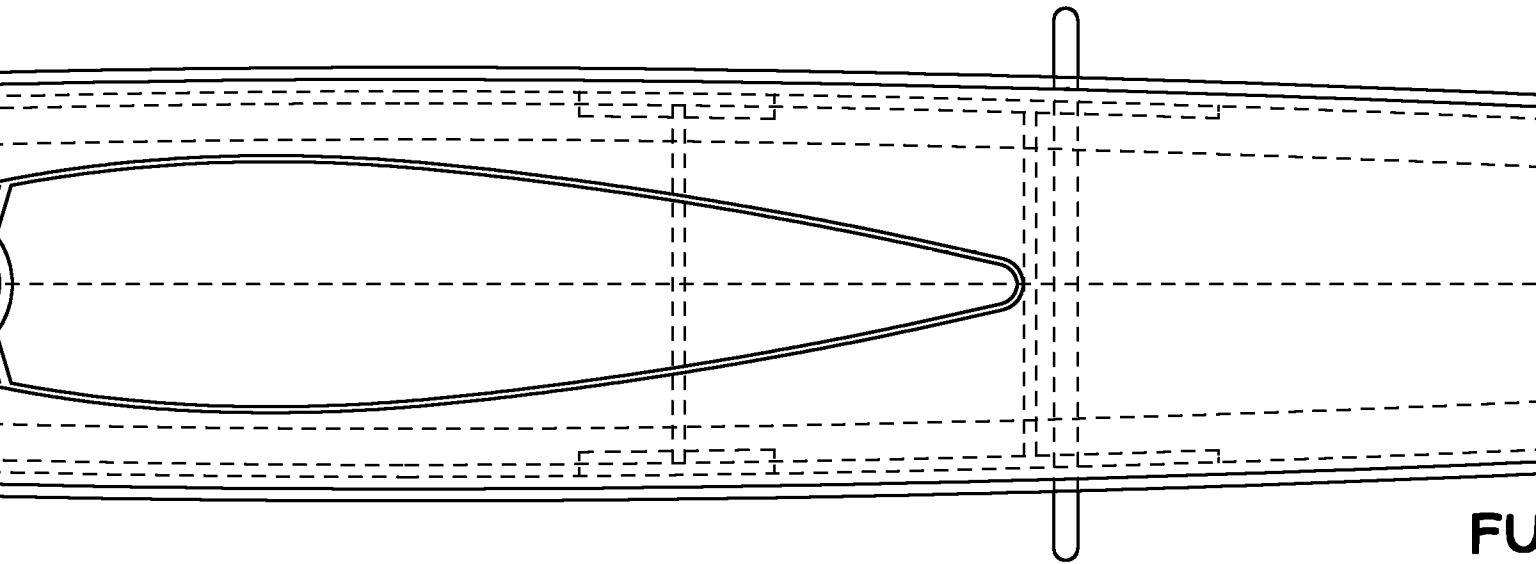
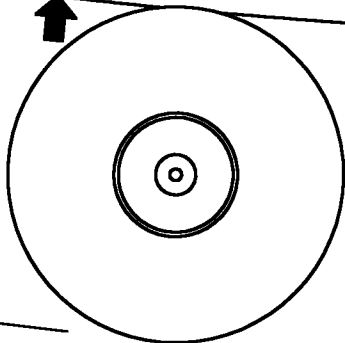
F3

Wing & Stabilizer incidence +2° relative to Bulkheads

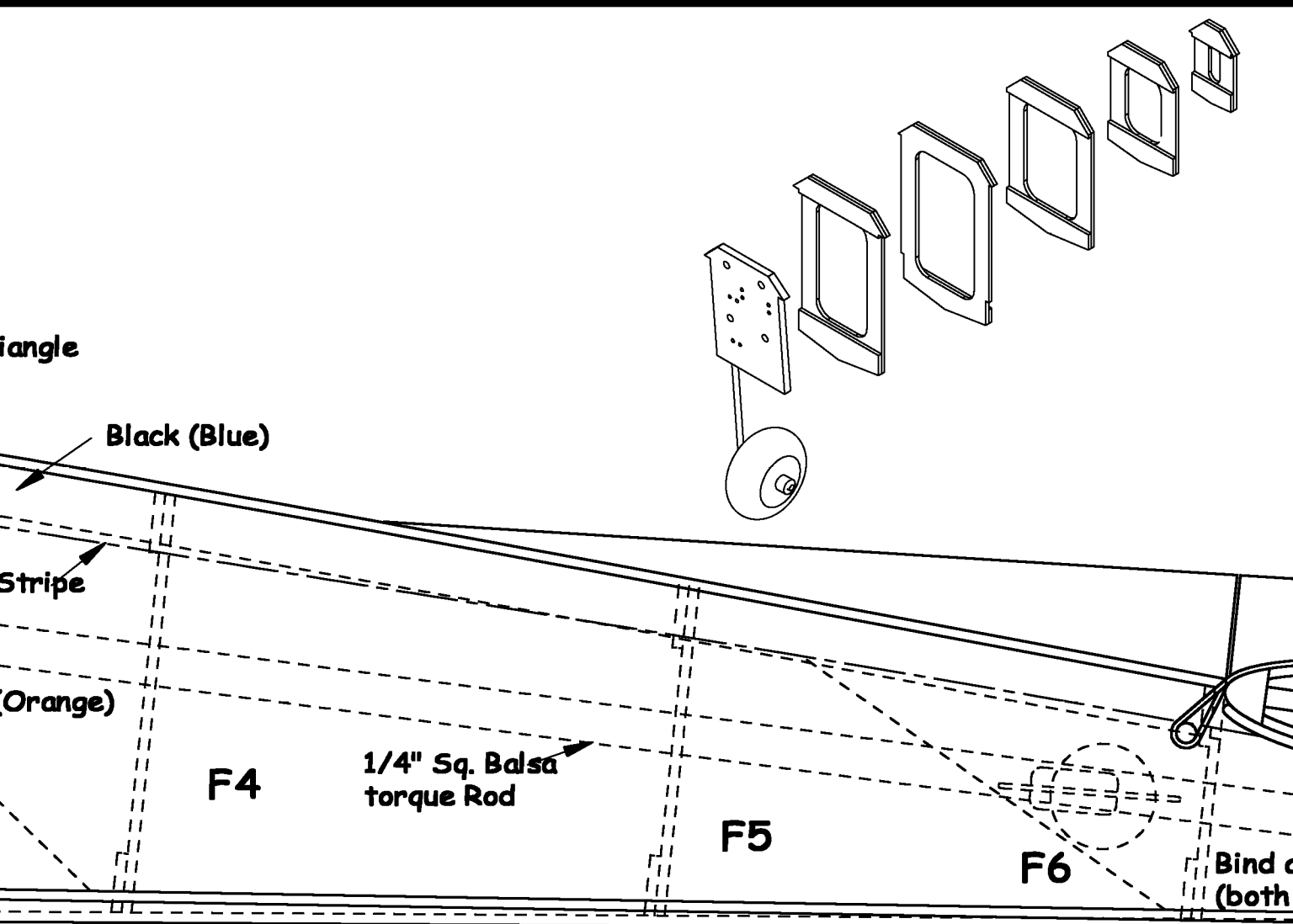
ference

ance point

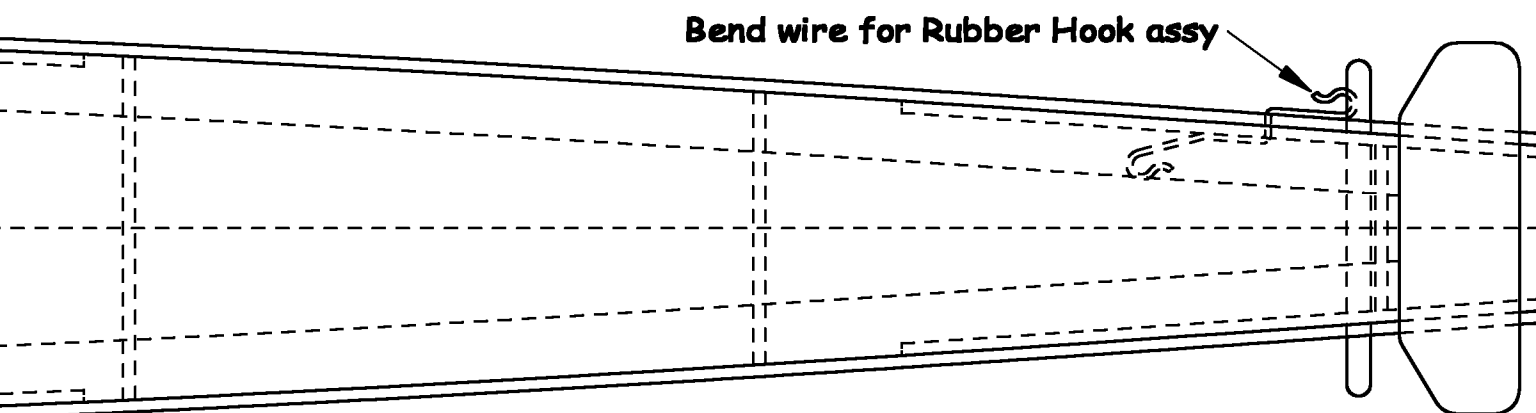
4" Wheels  
(Perfect  
similar)



FU

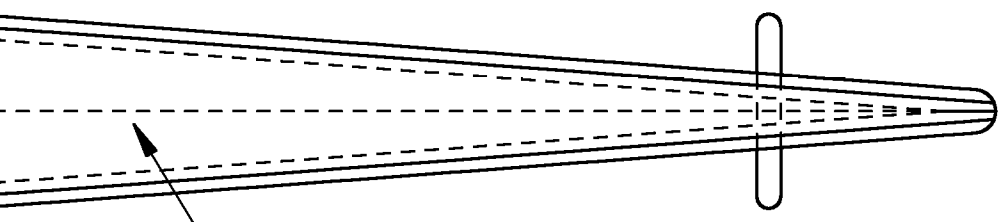
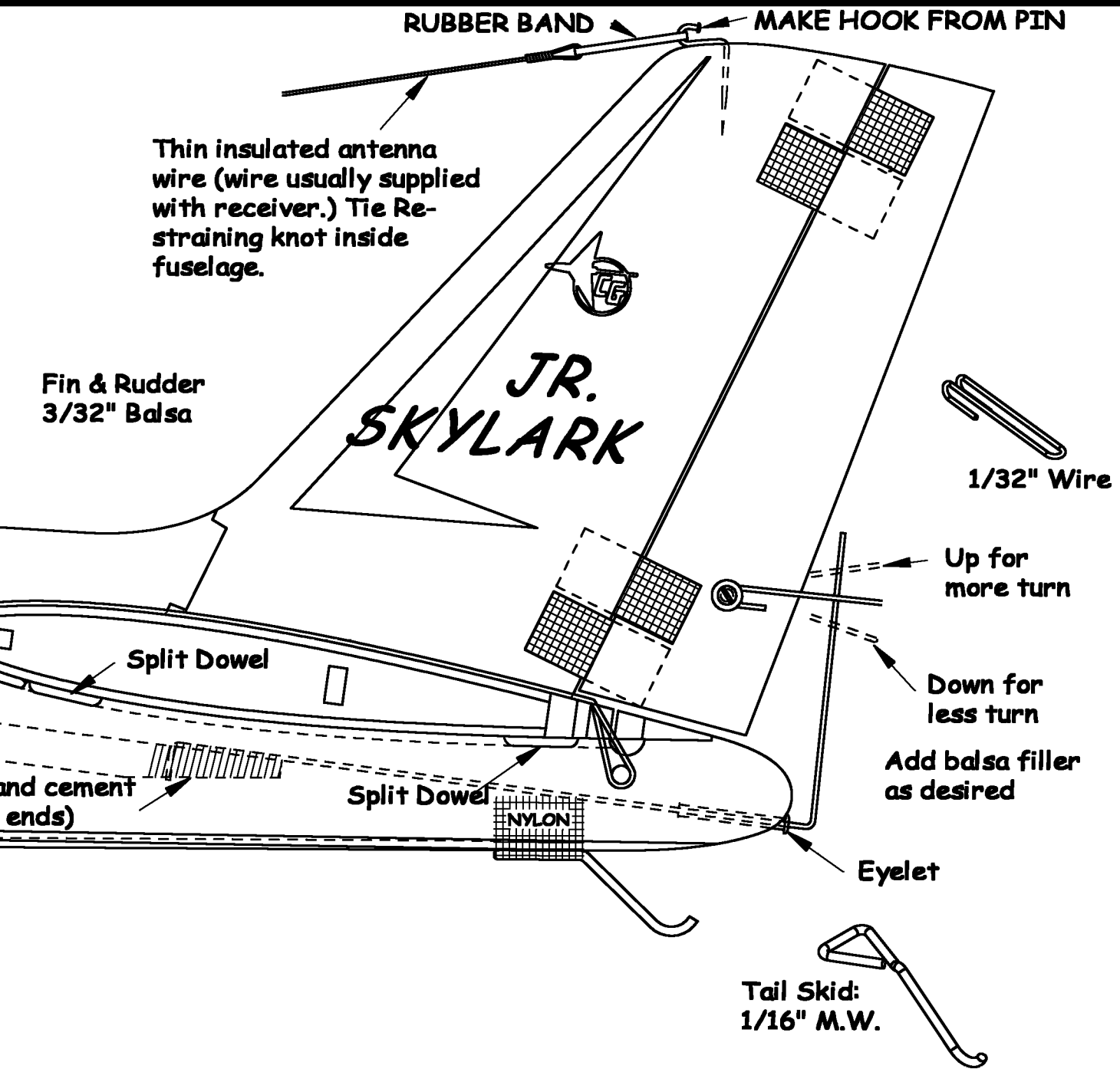


**FUSELAGE SIDES, DOUBLERS, TOP & BOTTOM ALL MADE FROM 1/16" BALSAs**



**FUSELAGE ASSEMBLY**

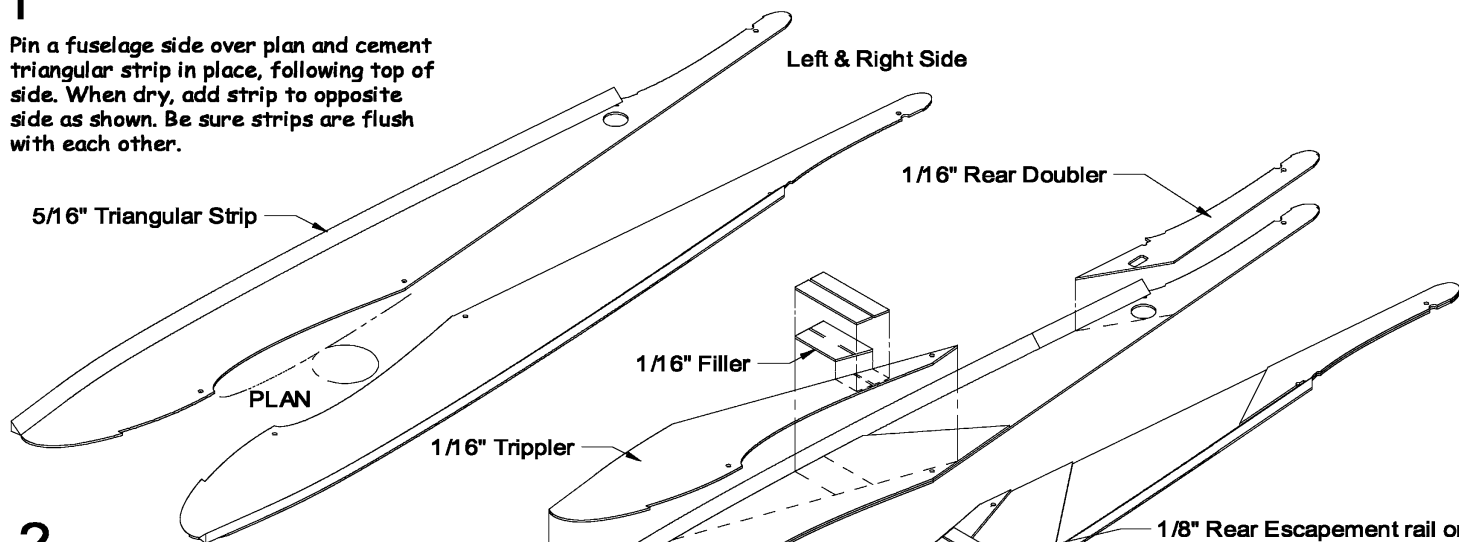




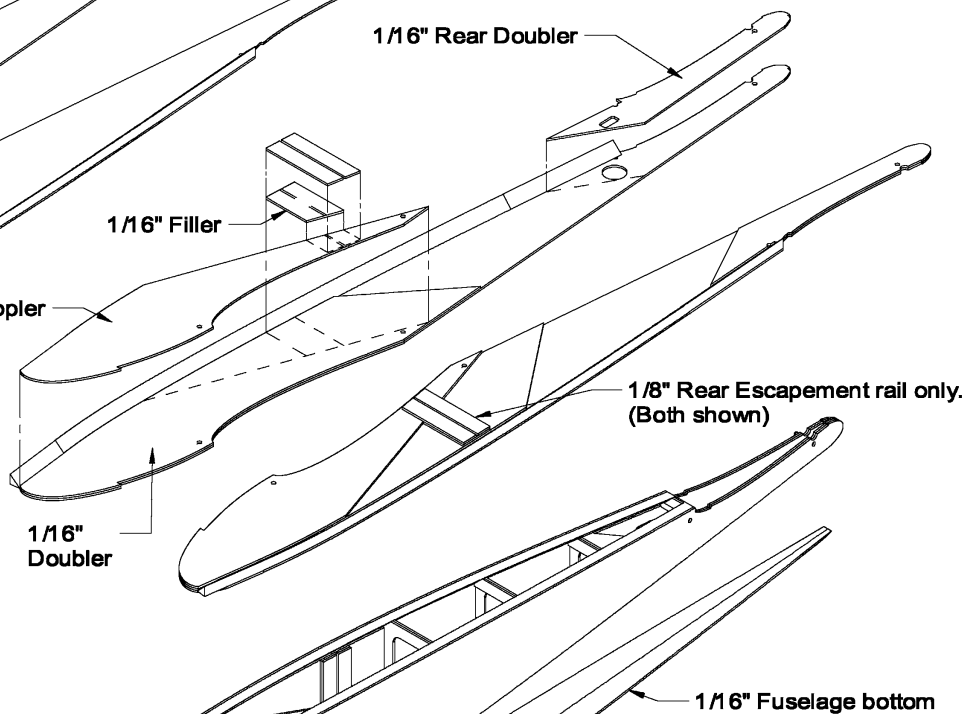
**Install Torque Rod before cementing Stab Platform & it's top sheeting**

**1**

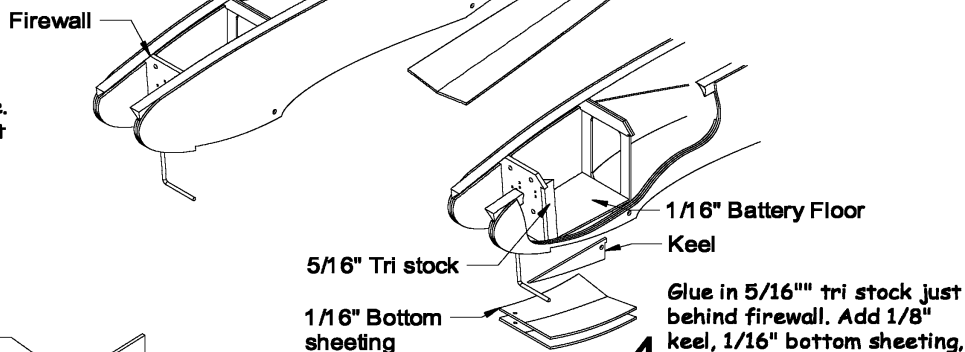
Pin a fuselage side over plan and cement triangular strip in place, following top of side. When dry, add strip to opposite side as shown. Be sure strips are flush with each other.

**2**

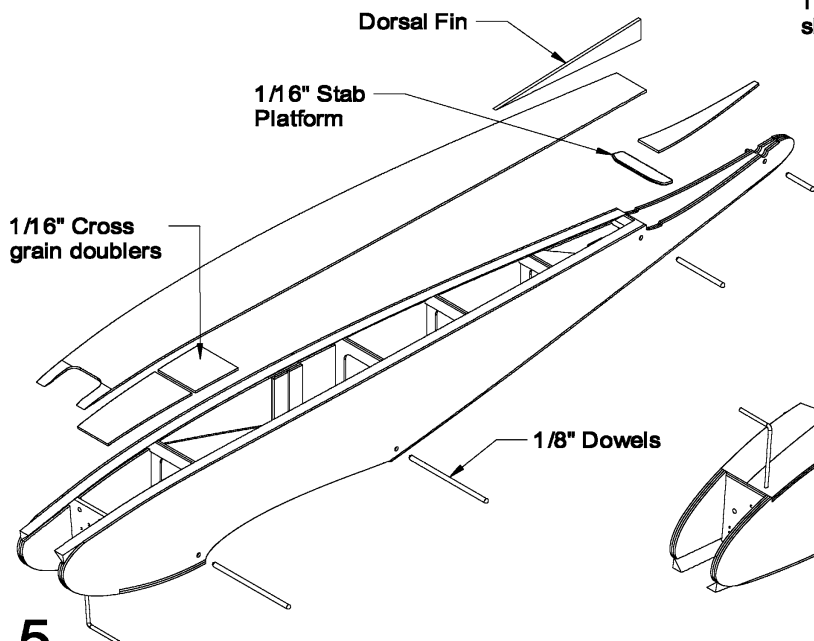
Glue doublers and triplers to sides using white glue such as Elmers or Wilhold. Spread glue evenly on both surfaces, and sprinkle a few grains of sand (from coarse sandpaper) between parts to prevent sliding when weight is applied. Temporarily, pile weights such as books to squeeze out excess glue. Then take off weights and remove excess glue from notches, etc. Replace weights to keep sides flat while drying. When dry add 1/16 inch fillers and 1/8 inch rear escapement rails.

**3**

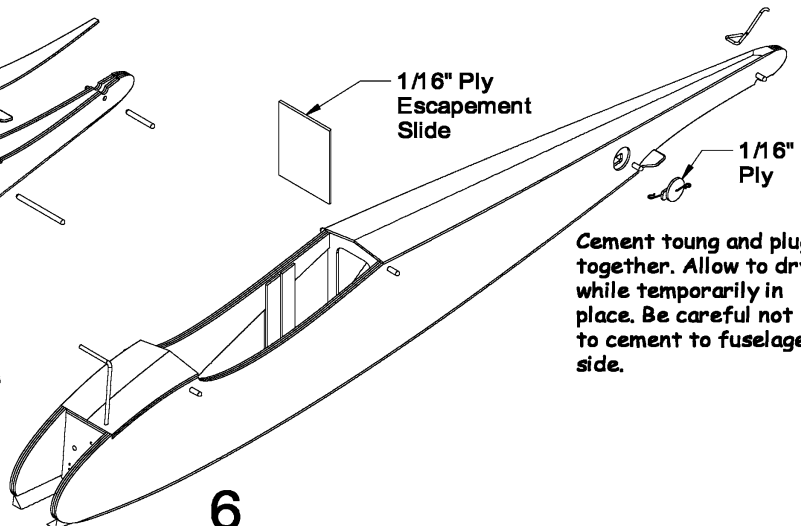
Join fuselage sides with all bulkheads in place. **IMPORTANT:** Proceed immediately to cement fuselage bottom in place to help assure good alignment.



**4** Glue in 5/16 inch tri stock just behind firewall. Add 1/8 inch keel, 1/16 inch bottom sheeting, and 1/16 inch battery floor.

**5**

Add fuselage top. When dry, carve and sand fuselage to final shape. Cover fuselage before installing dowels and dorsal fin. Next add torque rod assembly, then 1/16 inch stab platform.

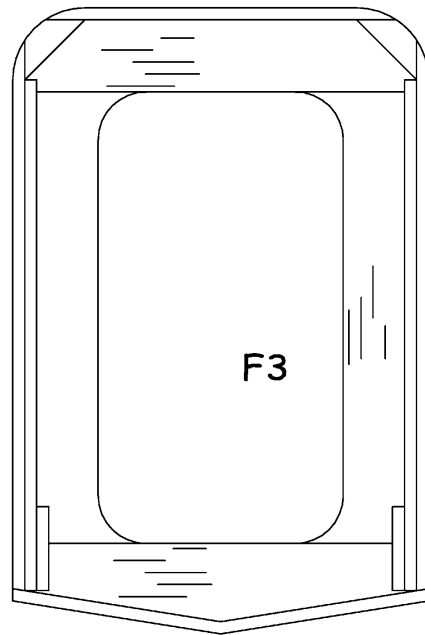
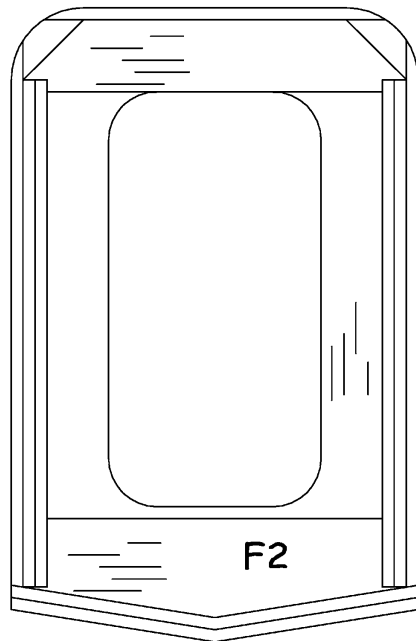
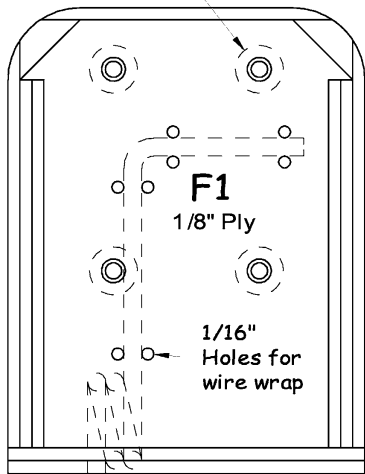
**6**

To install torque rod, drop a threaded needle through torque rod hole from rear. Cement thread to the very tip of torque rod wire and draw back through hole at rear. When the rod swings freely, cement lower part of slide and remaining escapement and receiver slide rails in place.

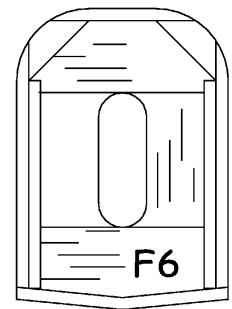
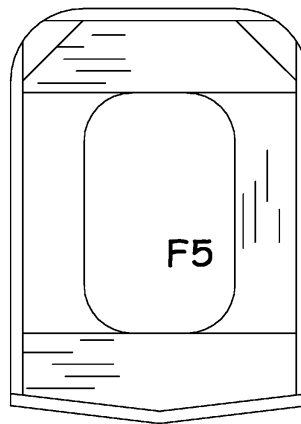
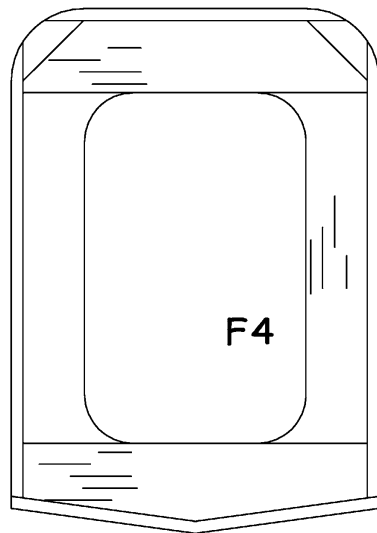
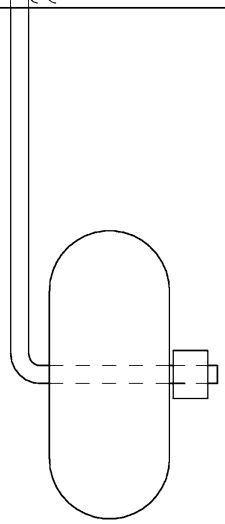
Cement tongue and plug together. Allow to dry while temporarily in place. Be careful not to cement to fuselage side.

**All bulkheads 1/16" balsa unless noted**

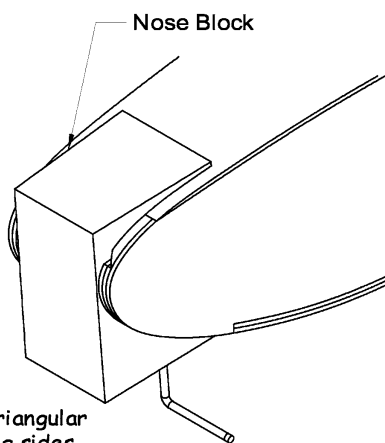
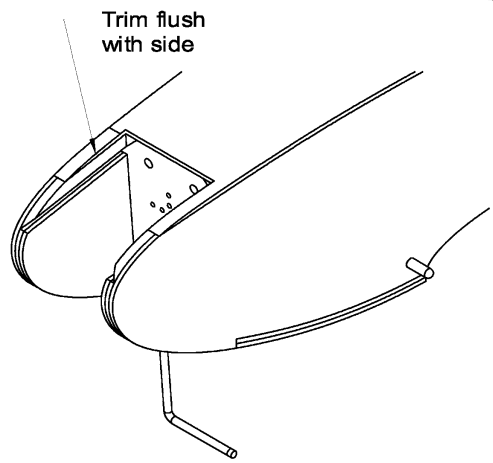
#2-56 Blind Nuts



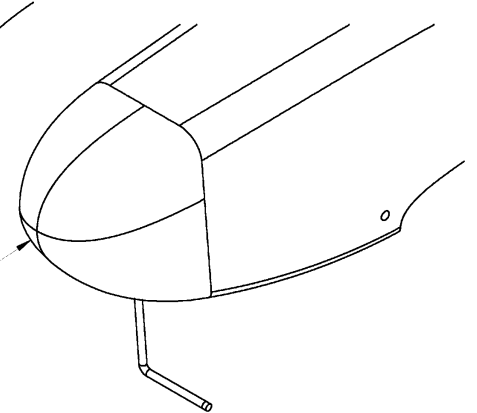
**KEEL 1/8" Balsa**



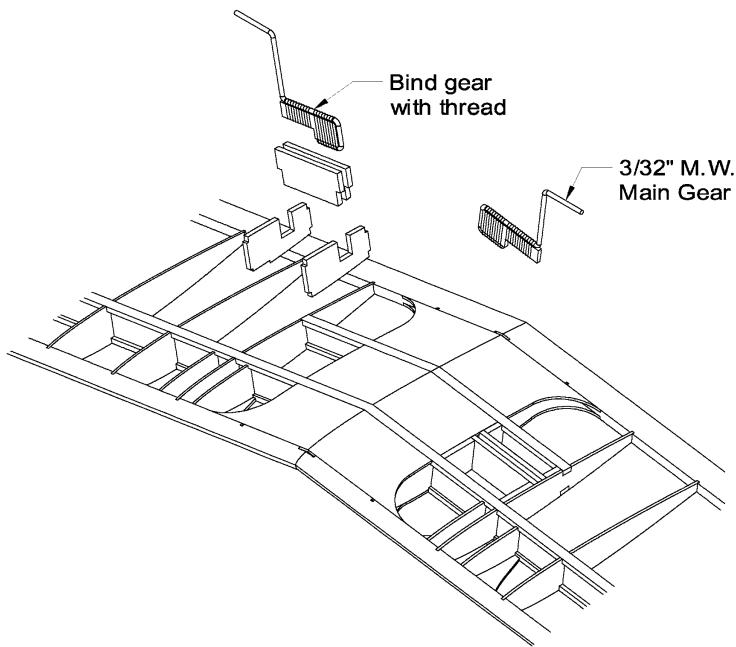
**BATTERY COMPARTMENT FLOOR**  
1/16" Balsa



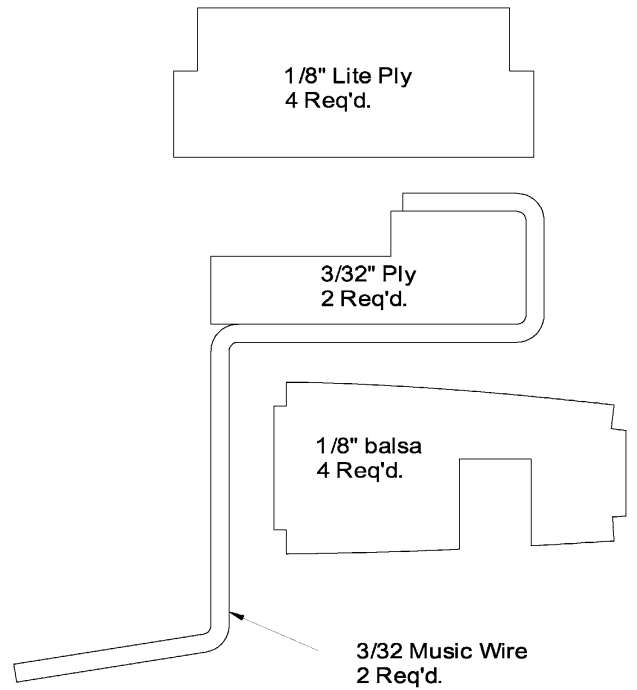
Carve and sand to final shape



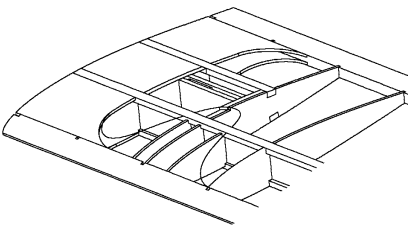
If twin engine version is being built, trim triangular strip flush with fuselage side, and spreading sides slightly, cement nose block in place. Carve and sand to final shape indicated in 1/2 scale drawing of twin version. Fill any small openings with scrap balsa and glue.



Do not cement thread wrapped main gears in place until wing is covered.



## Nacelle Assembly



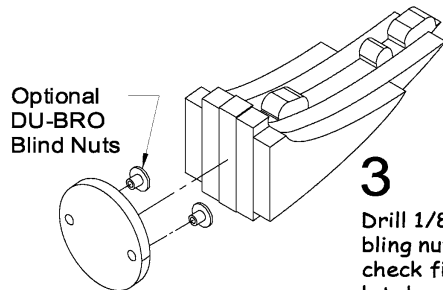
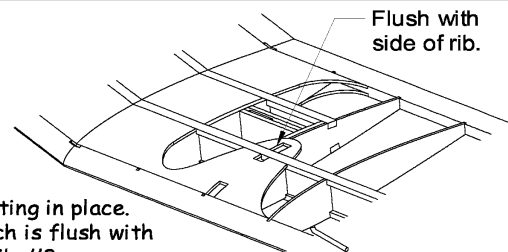
**1**  
Install false ribs as indicated in dotted lines on wing plan view. When dry, recess wing rib #3 1/16" to receive sheeting.

1/8" shear web up to wing rib #4 to support main landing gear. Use 1/16" shear webs for the remainder of wing.

1/16" Balsa False rib  
4 Req'd

**2**

Cement nacelle sheeting in place. Be sure edge of notch is flush with outside surface of rib #3.

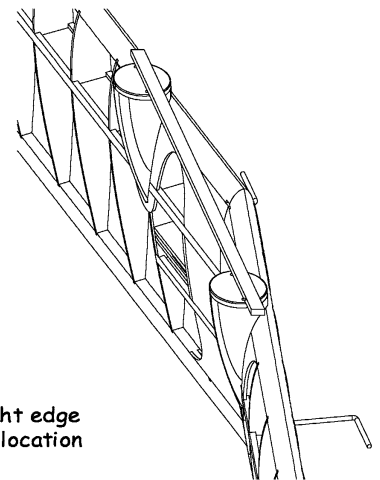


**3**

Drill 1/8" holes for engine. Install blind nuts. Assemble nacelles and check fit on wing. REMOVE and let dry.

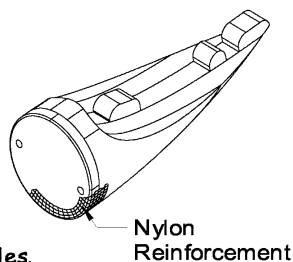
**4**

Line up holes with a straight edge and mark nacelle face for location of blind nut recess.



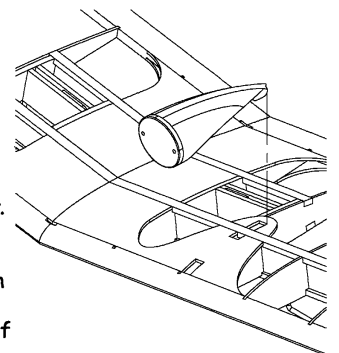
**5**

White glue firewalls to nacelles. When dry, carve and sand to final shape. Add nylon reinforcement.

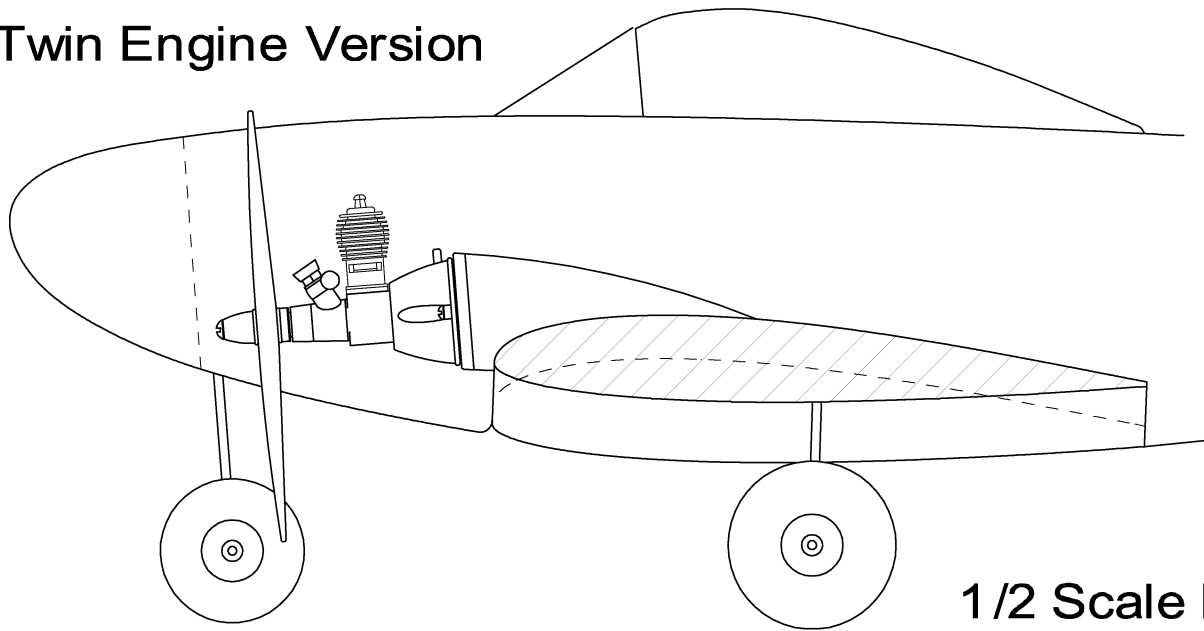


**6**

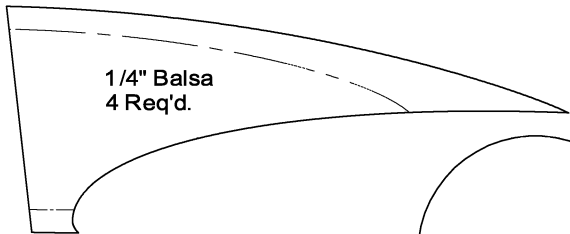
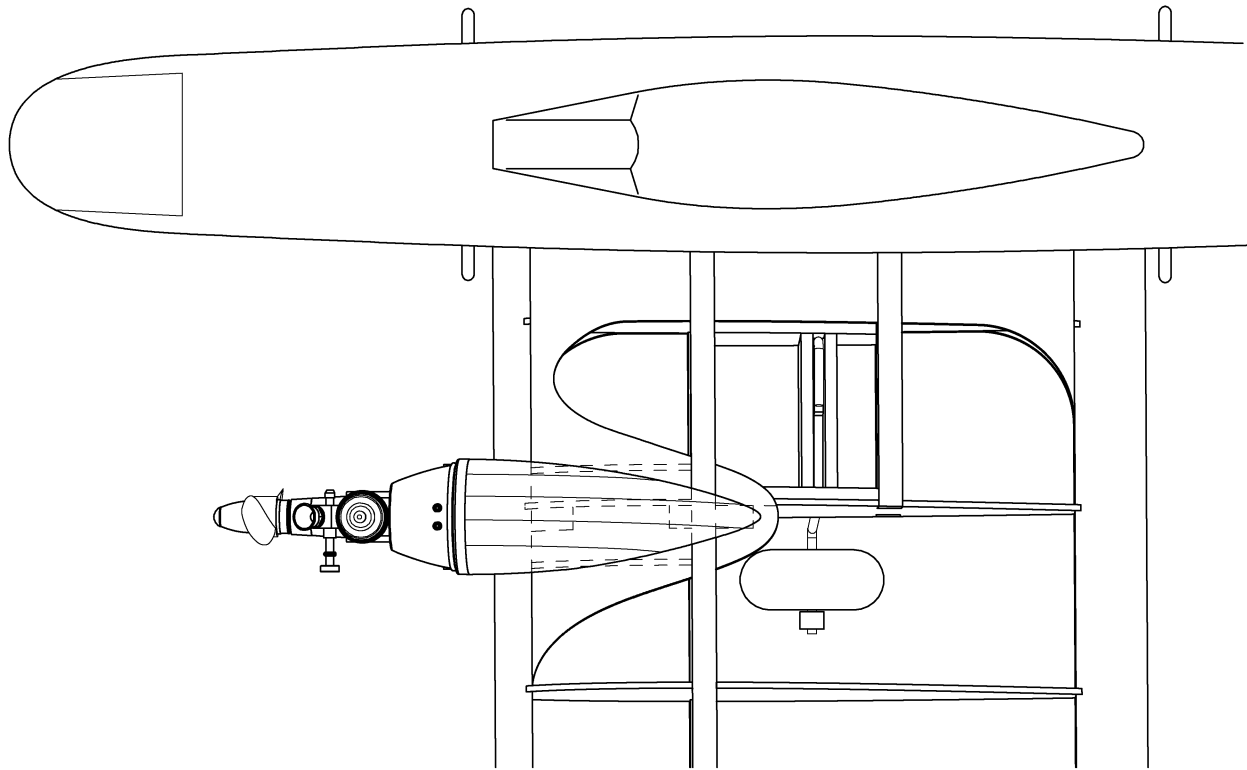
Cover wing and nacells separately. Cut notches in wing covering and cement nacells securely in place. (Covering not shown.) NOTE: Iron on coverings will require removal of wing covering to within 1/16" of nacelle platform.



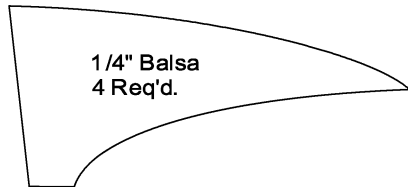
# Twin Engine Version



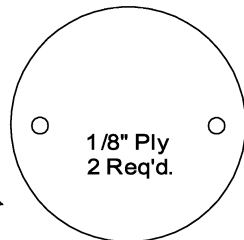
1/2 Scale Drawing



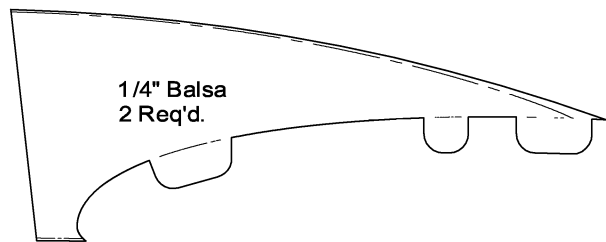
1/4" Balsa  
4 Req'd.



1/4" Balsa  
4 Req'd.



1/8" Ply  
2 Req'd.



1/4" Balsa  
2 Req'd.