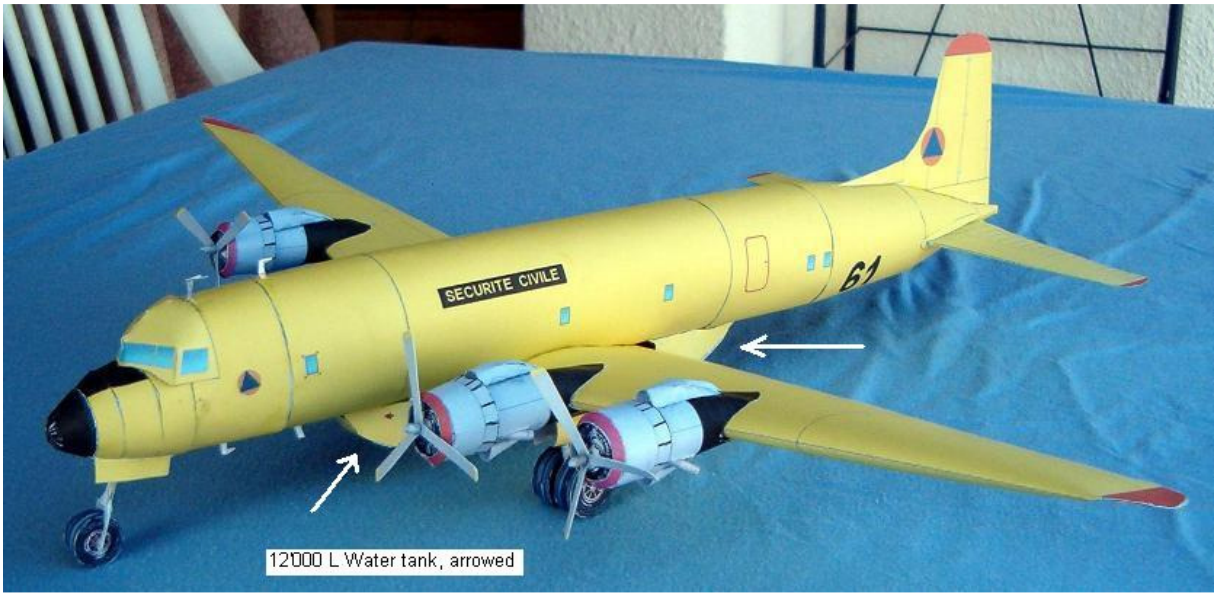
Bob's Card Models

www.bobscardmodels.altervista.org and www.zealot.com [Resources]



Douglas DC-6B 1:72

DC-6 planes were often converted to forest fire-fighting duties, and the 'Securité Civile' based at Marignane (Marseilles) used these initially in 1977 until they were replaced in 1988. They carried 12 000 litres of water with retardant. The Securité Civile airplanes were :

Pelican 61 : n° 44898/674, F-ZBAC resold as N4390F
Pelican 62 : n° 45066/696, F-ZBAD resold as N4390X
Pelican 63 : n° 43834/373, F-ZBAE, crashed 22 april 1985
Pelican 64 : n° 45219/815, F-ZBBU, entered service in 1982, crashed in the Pyrenees 19 july 1986
Pelican 65 : n° 45498/1005, F-ZBAP, entered service in 1986, resold in 1988 as C-FIZZ

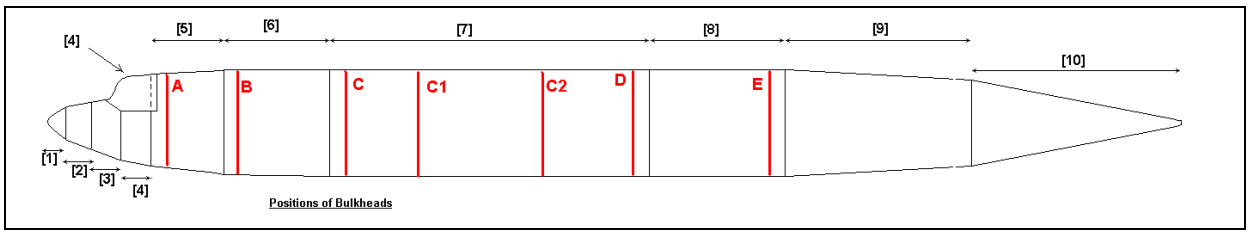
Length : 32.18m, wingspan 35.81m .

Building Instructions

Print all sheets on between 160 and 230g card, except Instructions and Sheet 12 which should be printed on 80 - 90g Paper.
Always carefully fit parts together before gluing, and make minor adjustments if necessary.
When gluing card parts at right-angles to another piece (eg bulkheads to the outer skin), holding together with fingers until dry usually results in the 'skeleton' image of the bulkheads - not nice! Hold together with 2 flat pieces of wood or plastic.
NOTE: Insert the bulkheads using a cocktail stick or tooth-pick (or even better, I use a long screw) pushed into a tight hole in the centre of each bulkhead. The fit of the bulkhead must be flush, not tight, otherwise ugly "ribbing" will be visible on the fuselage after gluing. NEVER force the bulkheads into position, rather snip a bit of card off the outline. Don't glue them on, just tack them on with a minimum of glue at about 4 points around

the bulkhead. They must just keep the form of the fuselage, and not slip sideways. They have been designed slightly too large, and they should be cut back very slightly to give a good loose fit.
Green areas must be cut out, BUT only after gluing any folds. The Instructions will tell you when!
Although the model is relatively small, bulkheads have also been used to keep the correct cross-sectional form of the fuselage.

Fuselage



1. Cut out bulkheads **A** to **H** , make 3x thick by gluing on waste card, and pierce their centres
2. Cut out parts **[1]** to **[7]**, round each part and close form with its main tab, in the following order.....
   Part **[7]**, add b'heads **C1** , **C2**, **C** and finally **D**.
   Part **[6]**, join to **[7]**, add b'head **B**.
   Part **[5]**, join to **[6]**, add/glue a mass of 20-25g inside **[5]**, and finally add b'head **A**.
   Glue part **[4]** on **[5]**. Note that the former only covers the lower half of the latter.
   Pierce green hole in middle of **[4]**, to later accommodate tooth-pick of front landing gear.
   Glue **[3]** to **[4]**.
3. Glue **[2]** to **[3]**
4. Part **[4B]**: bend all tabs, and centre windows, glue. Glue on **[4]**.
5. Add/glue Nose Cap **[1]**, When dry, snip apex, add glue, round the front with finger.
6. Close/glue **[8]**.
7. Glue 7/8 tab on **[7]**.
8. Glue **[8]** on **[7]**.
9. Insert/glue b'head **E** in **[8]**. Glue on tab 8/9.
10. Close/glue **[9]**. Glue on tab 9/10. Glue on **[8]**.
11. Close/glue **[10]**, and glue on **[9]**.

Tail/Rear Wings

12. Cut out Rear Wing **[11]**, fold, glue. Cut out green slits in Rear Tail, insert wing and glue in place.
13. Should the Wings/Fuselage not fit exactly, add a Cover **[11B]** on both sides - slip the glued part over the wing and push up to the fuselage. (TIP: before cutting out the Cover, first cut out the green slit, then the Cover outline).
14. Add Tail Cap **[9B]**. Snip 1mm slits in the apex, glue, round with fingers.
15. Cut out/fold/glue Rear Fin **[10]**, as well as the Vertical Stabiliser **[10A]**.
16. In Tail Cone of the fuselage, cut out the green slit, and insert/glue **[10A]** in place.
17. Insert/glue the Rear Fin in place: Push **[10A]** through the slit provided, glue the protruding portion on both sides, add the fin, remove the fin with attached **[10A]**. When dry, re-insert/glue in place.
18. Glue the Fin Cover **[10B]**, as per instructions on the sheet.

Water Tank

19. Cut out the Water Tank **[15]** and the two b'heads **[15A]** and **[15B]**.
20. Tank **[15]**: fold (rounded) the 2 long folds, and fold (sharp) all tabs.
21. Insert/glue the 2 b'heads in the positions marked.
22. Close both ends by gluing tabs marked **x**.

Main Wings

23. Cut out both Wings **[12L]** and **[12R]**, the Connector between both wings **[13]**, and the Dihedral **[14]**.
24. Fold (rounded) the leading edge and fold (sharp) the long tab.
25. Join both wings using **[13]**, gluing the part on the INSIDE of the LOWER Wing portion.
26. Fold/close/glue one wing only. When dry, close/glue the wing tip.
27. Part **[14]**: Glue on the 2 Struts **G**.
28. Insert **[14]** (duly glued on the underside only) inside this wing-half. When dry, glue the underside of the other hedral-half, to the still open wing. When dry, close/glue the Wing. **TIP:** to hinder the possibility

of ugly "ribbing" due to the sharp glued join Dihedral/Wing, for each side of the Dihedral I fold a 25cm (1.5-2cm wide) long card strip in 2, then glue it over and under the Dihedral. When dry, I then glue the underside only, to the wing. Repeated for the other Wing.

29. Cover the join of the 2 wings on the upper surface, with a piece of card 1 x 8 cm.
30. Cut out the green area marked for the position of the wing assembly (under **[6]**), bend the tabs approx 45° inwards.
31. Glue the wing assembly in place, making sure that the wing is flush with the fuselage, to later accept the water tank. Check before gluing, and increase the size of the cut-out on the fuselage if necessary by snipping carefully.
32. Glue on the water tank.

Engines

33. Left inner engine: Cut out all parts, close/glue forms. Glue **[19]** on **[18]**. Join **[16]** to **[17]** , glue **[20]** on tabs on front of **[17]**. Push the glued assembly through **[18]** as far as it will go. Cut out the green areas and glue onto wing. Snip the 11 flaps on part **[18]**, and bend each flap about 5-10° upwards.
34. To each engine, add an Air Inlet part **[21T]** on top of the engine, and **[21B]** underneath the engine, so that the front of the inlet straddles the border **[17]** to **[18]**.
35. Add an exhaust **[22]** to each motor - cut out green dot marked on engine, and insert/glue exhaust.
36. Repeat for the 3 other engines.
37. Cut out the green areas under each engine, prior to assembling the undercarriage.

Undercarriage

38. **Front:** Cut out, roll and glue Front Wheel **[23]**, and when dry, add the Profile **[23A]** by gluing around the circumference of the wheel.
38. Cut out the Front Suspension **[24]** and form the assembly as per the instructions on the Sheet. Overall length from the tip of the tooth-pick to the bottom of the wheel is 70mm.
39. Cut out and form the Nose Landing Gear Compartment **[25]**as per the instructions on the Sheet, cut out the green area under the front fuselage.
40. Push the tooth-pick of the wheel assembly through the hole in **[25]**, and fix in place with glue in the hole of fuselage part **[4]**. Glue the Nose Landing Compartment in place.
41. NOTE: The wheel suspension should be about 15-20° from the vertical.
42. **Main (2):** make each main wheel assembly as per instructions on the Sheet.
43. Glue the flaps in place **[32]**.

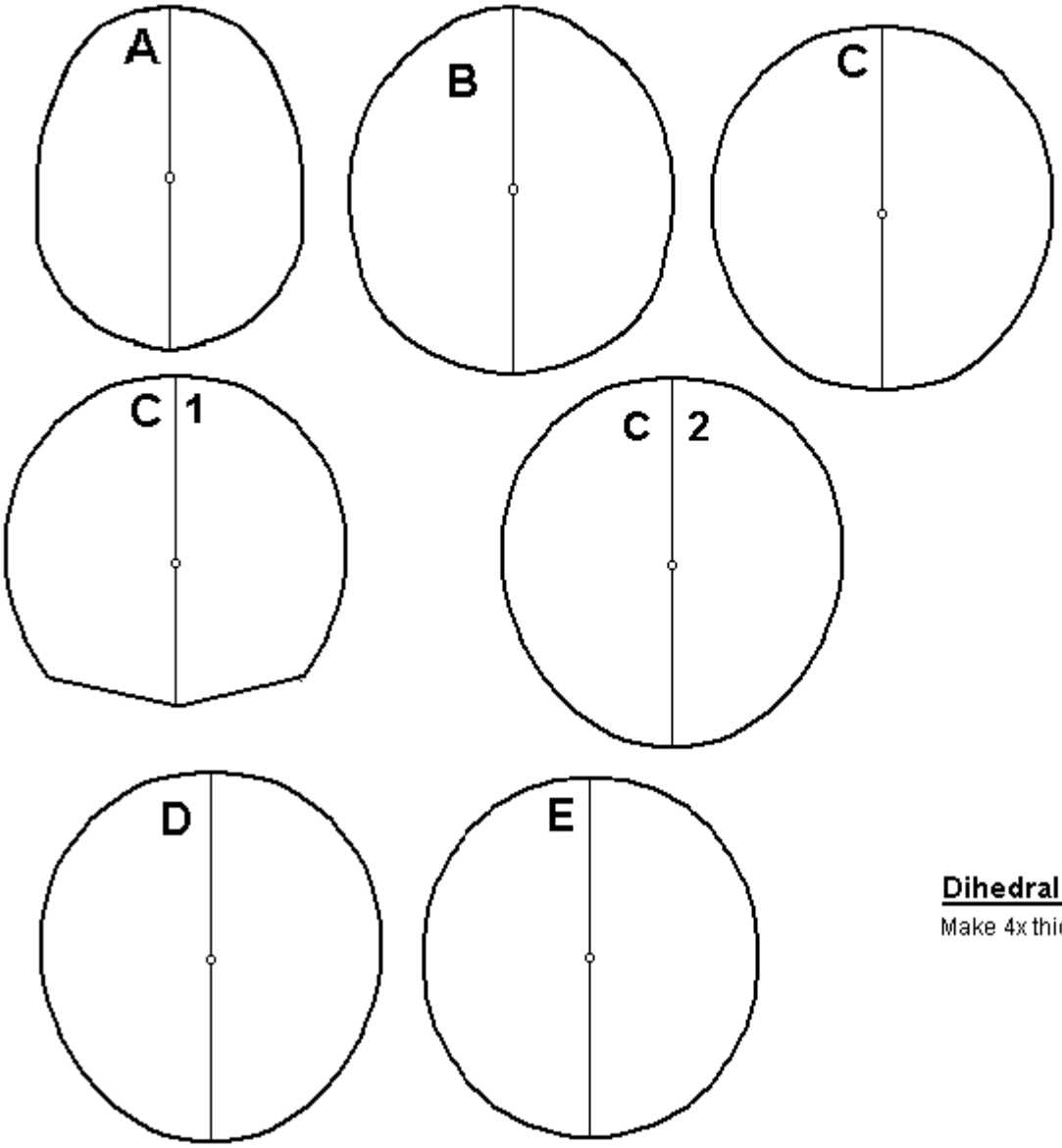
Propellers

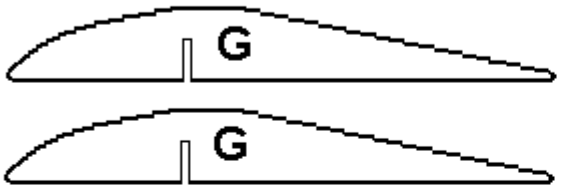
44. Cut out the propellers **[26]** and nose cones **[27]**, fold and glue according to the instructions on the Sheet.
45. Insert the propeller/tooth-pick axles into the engines (shorten as necessary).
46. Cut out and glue tab of Engine Centre Hub **[27B]**, push on tooth-pick just behind propeller, glue rim of hub and push the propeller assembly in place in the hole provided.

Aerials

47. Add the aerials **[28]** to **[31]**.

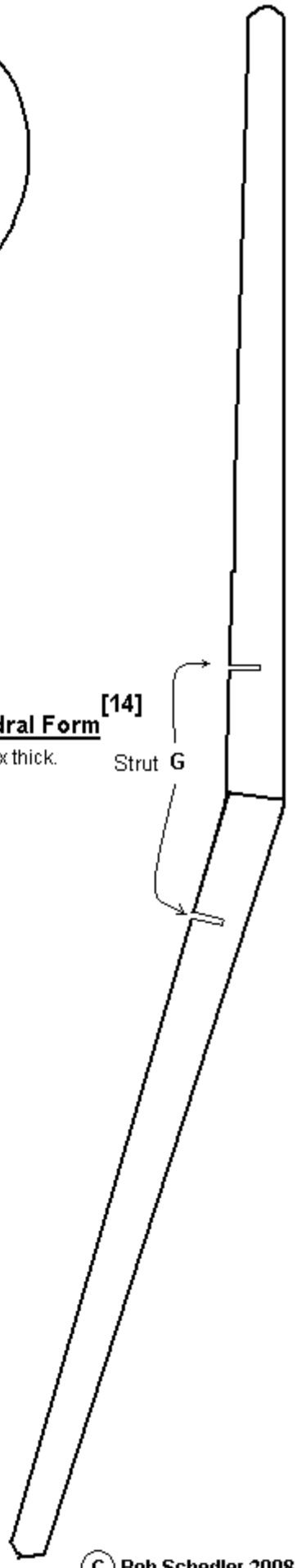
---oooOooo---





Bulkheads

A-F : Make 2x thick
G : Make 3x thick



Dihedral Form [14]

Make 4x thick.

Sheet 1

DC-6B

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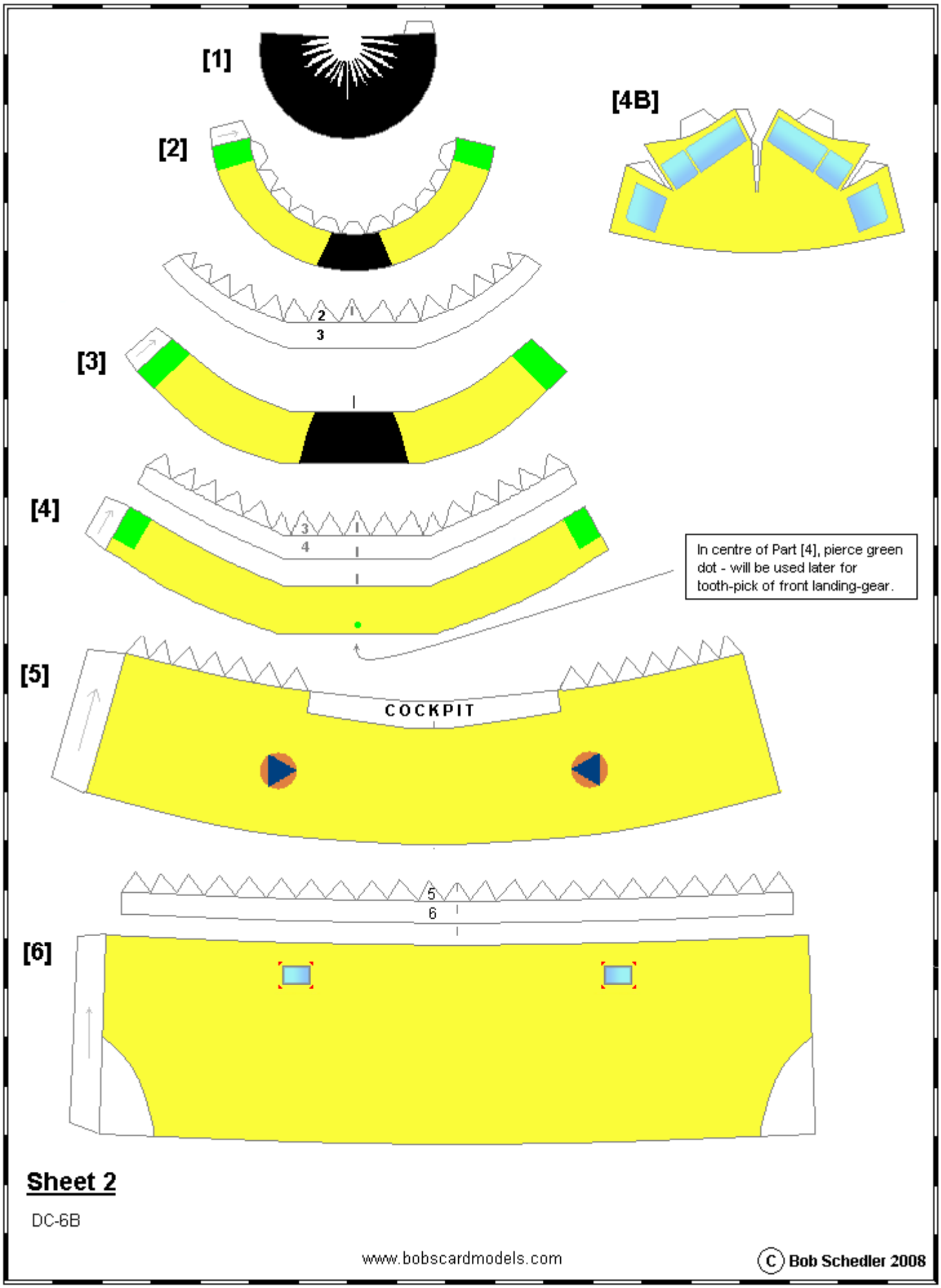

Sheet 2

DC-6B

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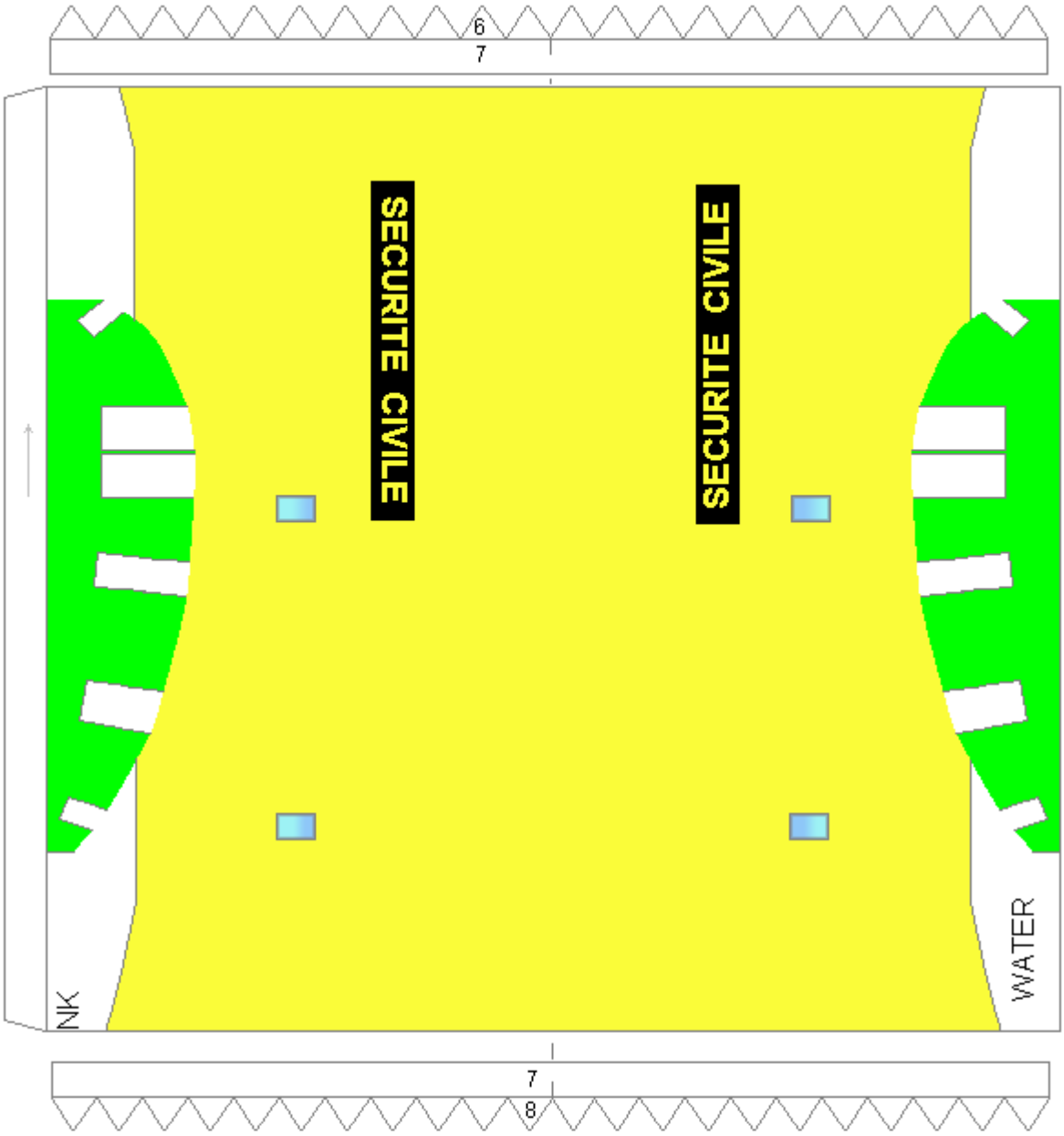
[7]



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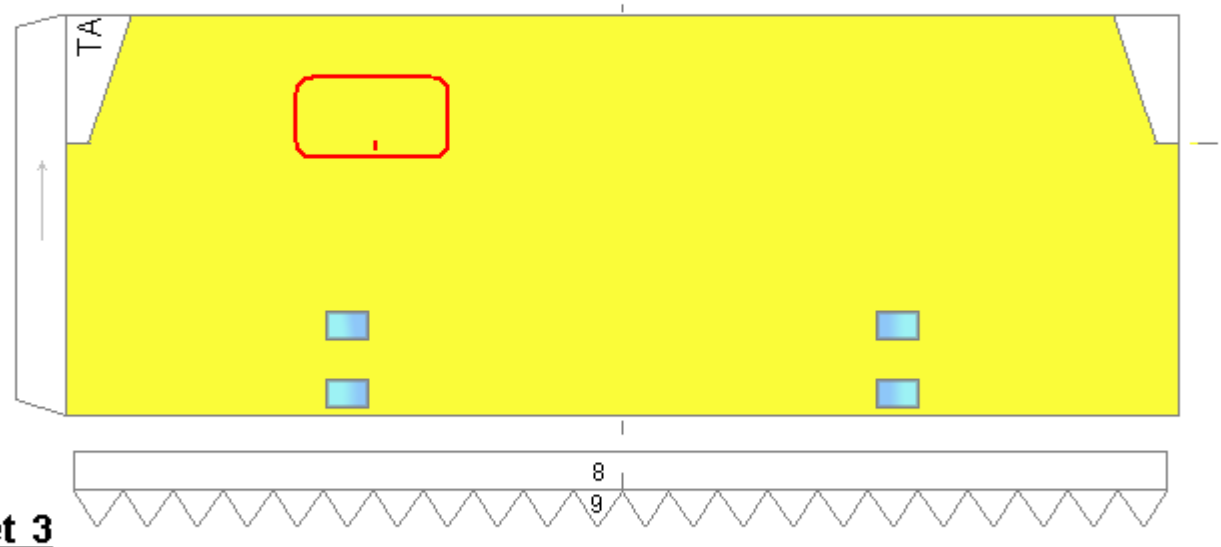

Sheet 3

DC-6B

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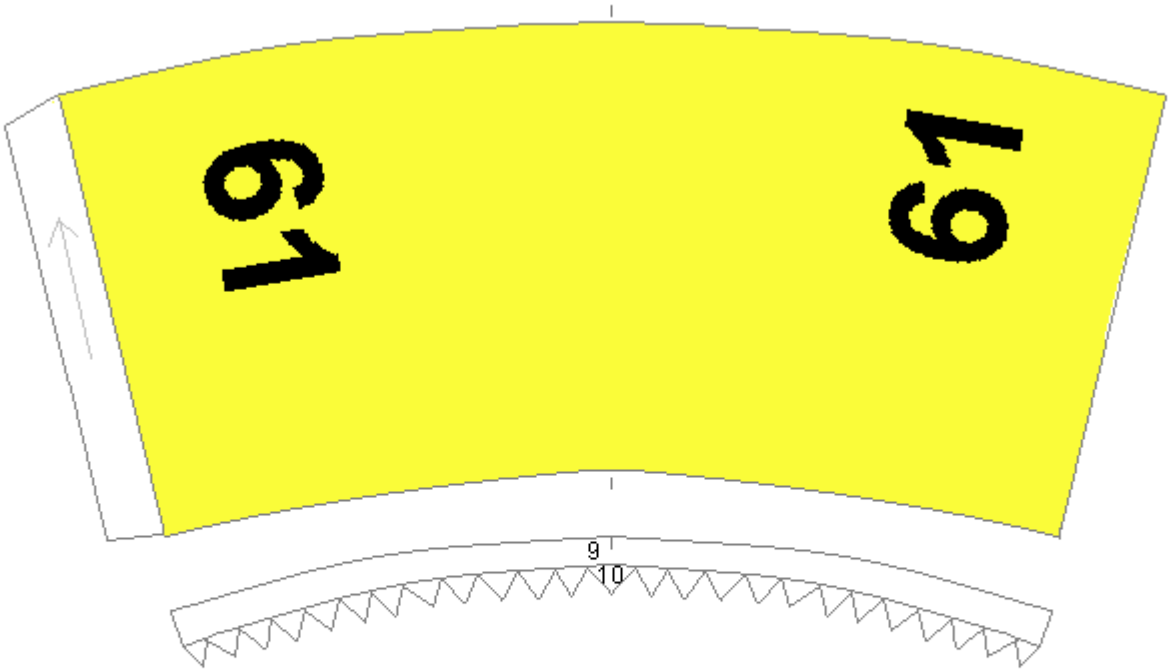
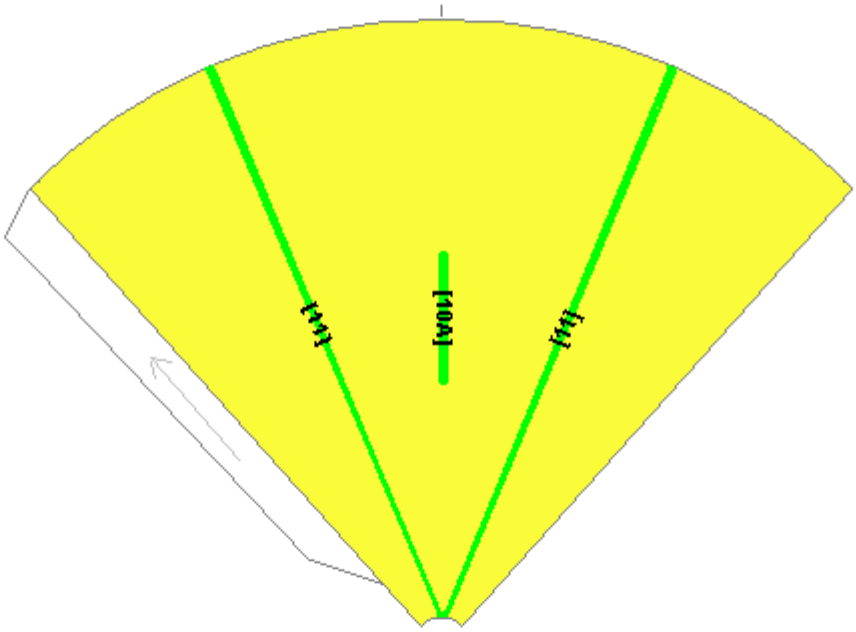
[9]

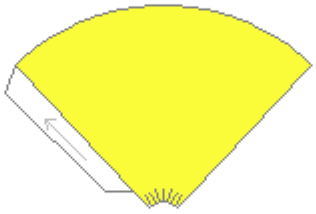


[10]



[9B]

Tail Cap



Sheet 4

DC-6B

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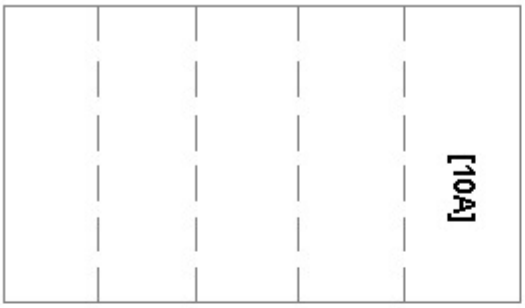
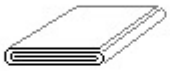
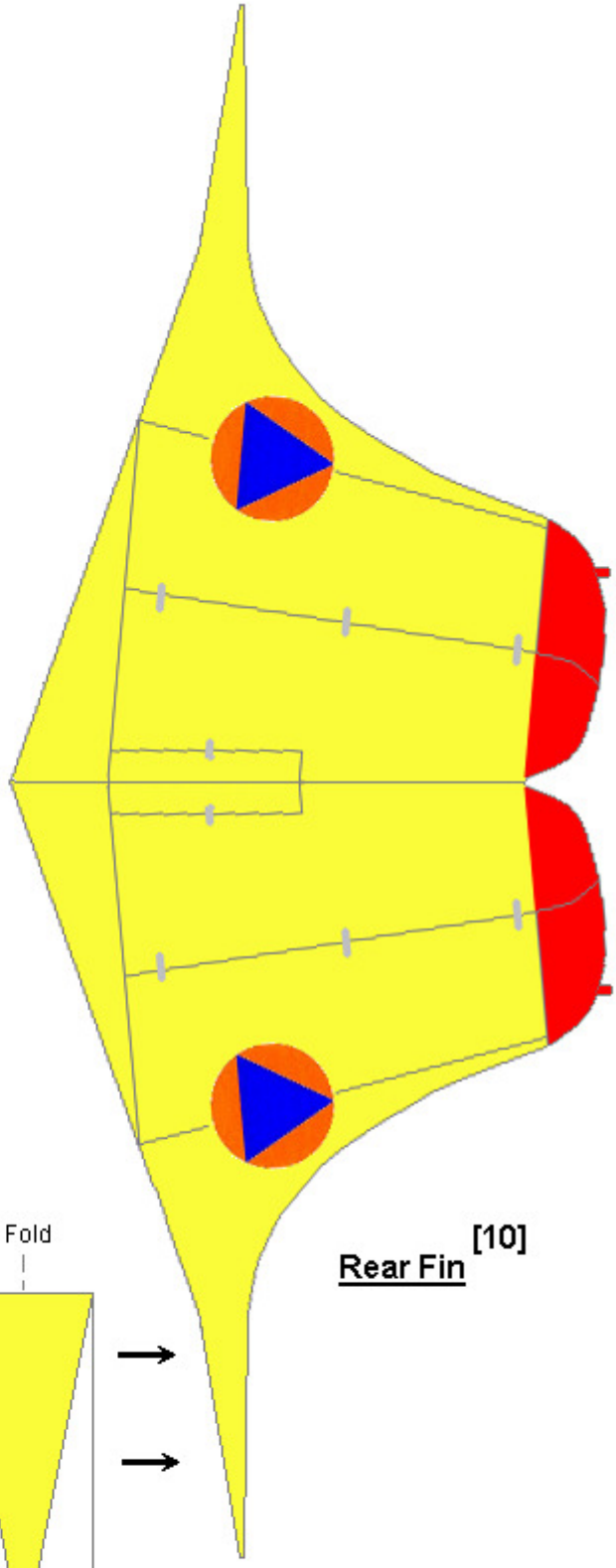


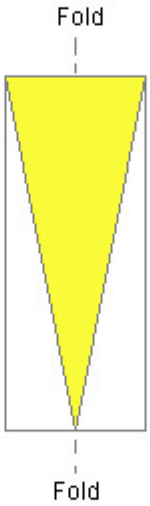
Vertical Fin Stabiliser [10A]



Fold 4 times as shown, glue last flap.



Rear Fin [10]

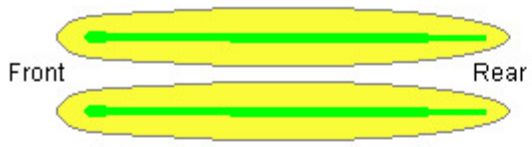


Fin Cover [10B]

Cut out rectangle, fold, cut off white area.

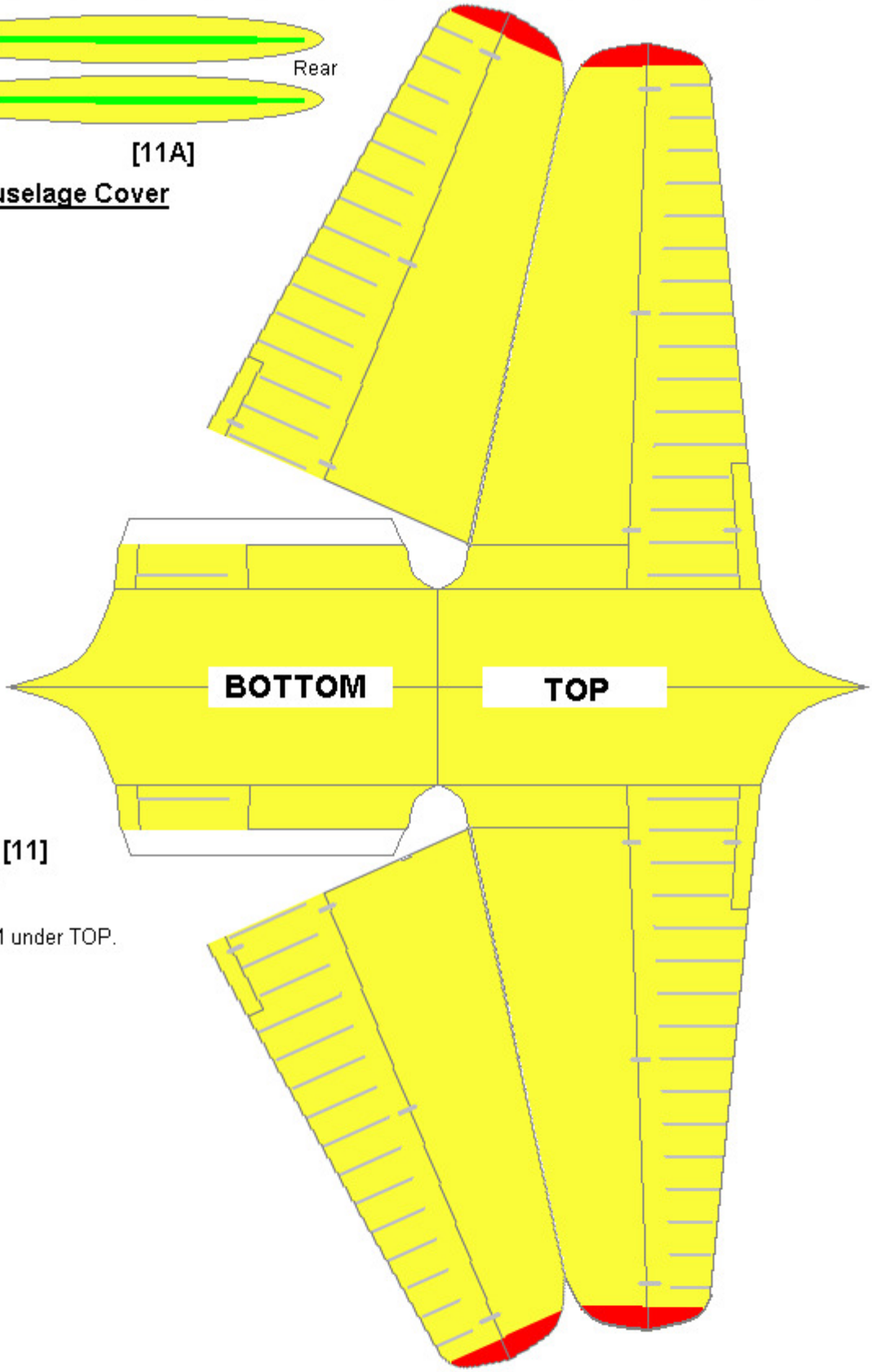
Sheet 5

DC-6B



[11A]

Wing/Fuselage Cover

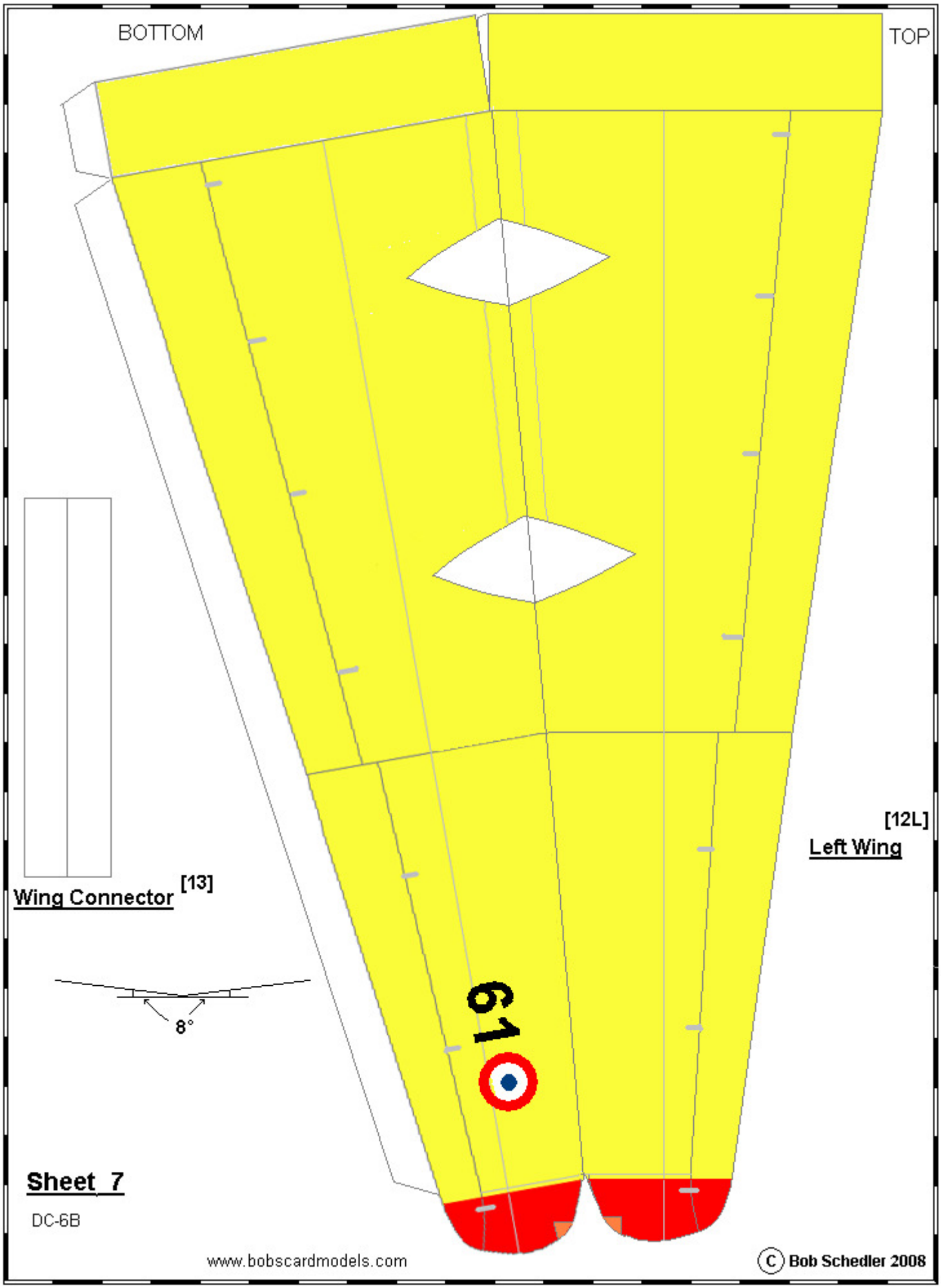


Rear Wing [11]

Fold BOTTOM under TOP.

Sheet 6

DC-6B


BOTTOM
TOP
[12L]
Left Wing
Wing Connector [13]
8°
61
Sheet 7
DC-6B
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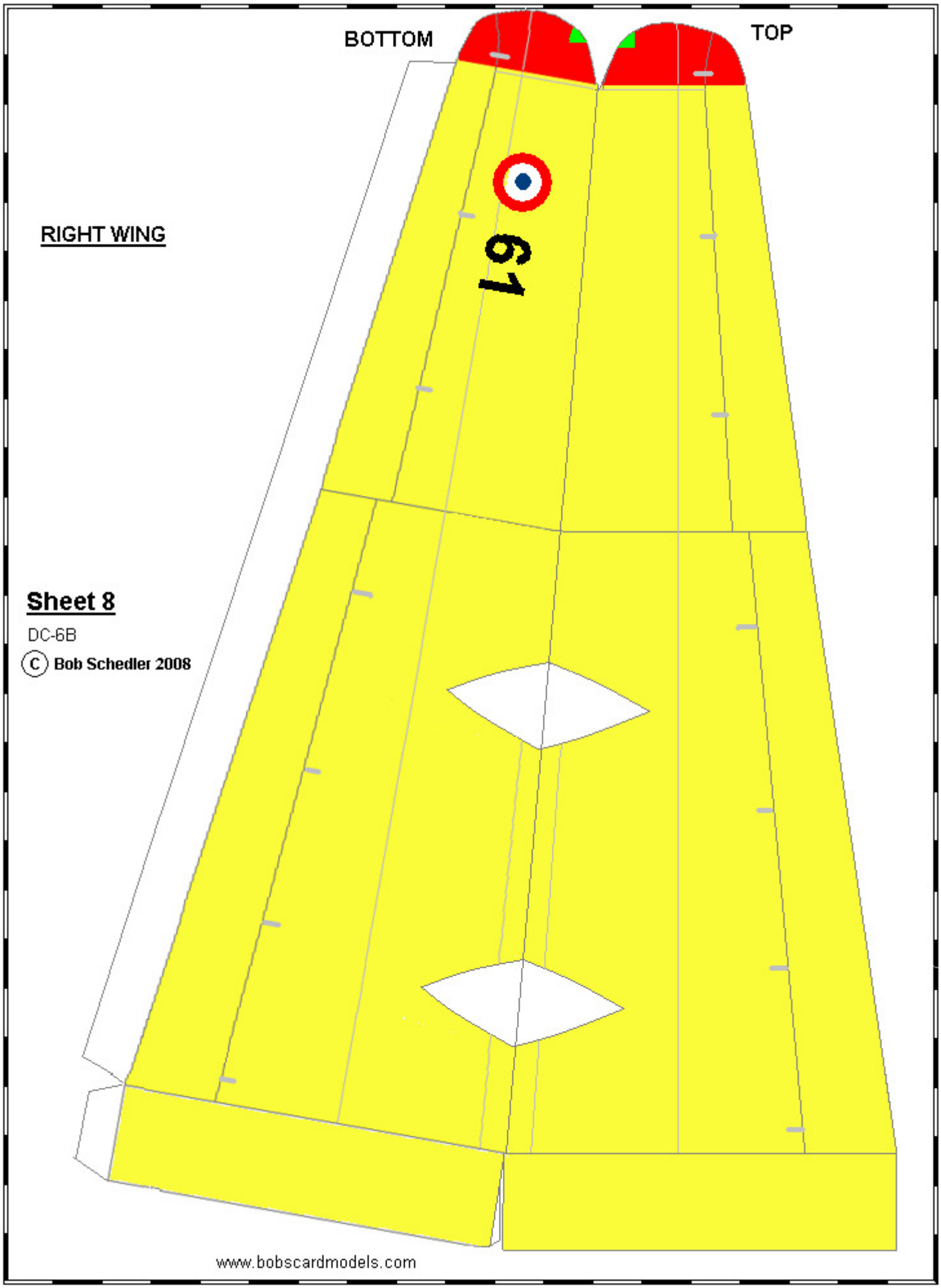
BOTTOM
TOP
RIGHT WING
Sheet 8
DC-6B
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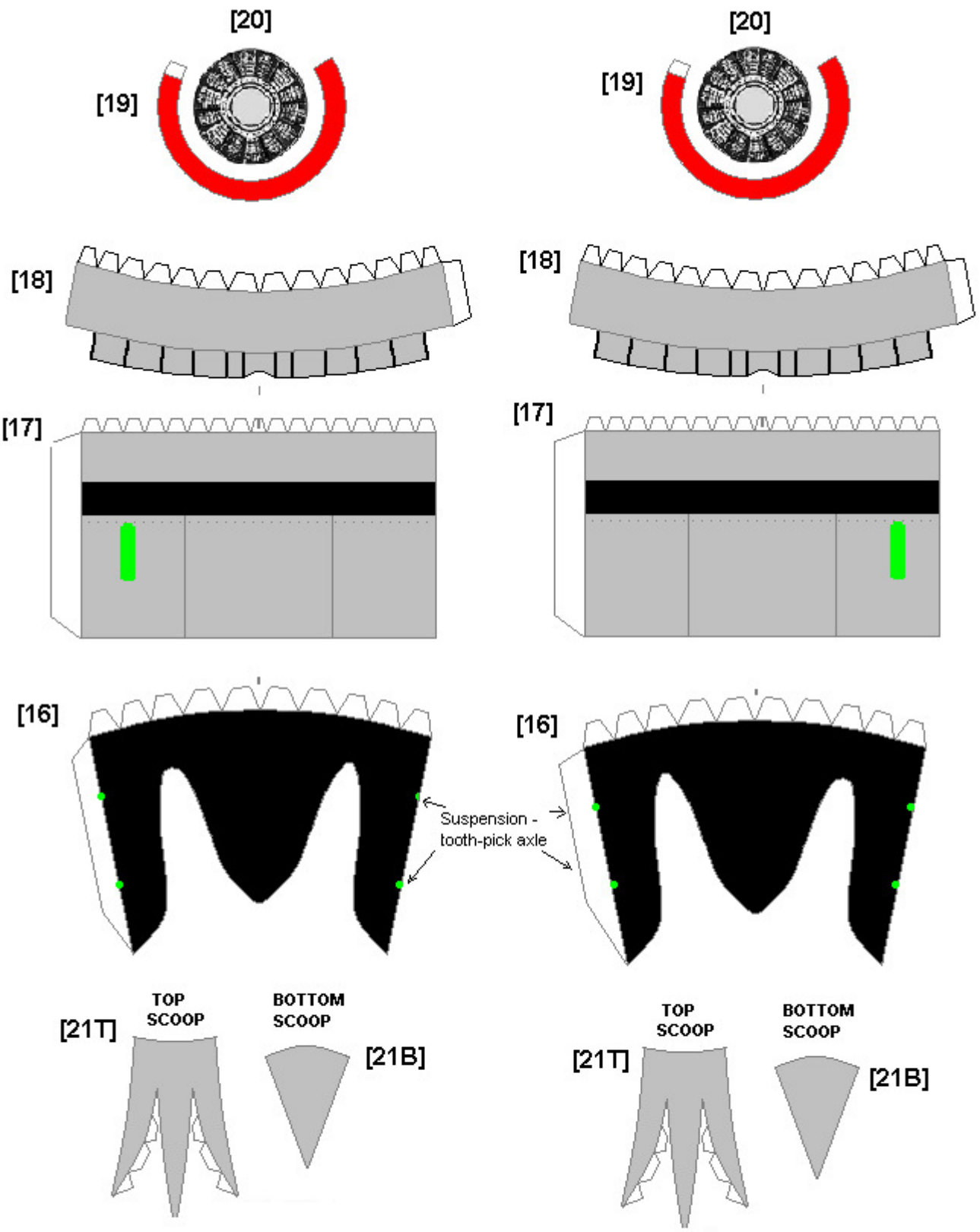
LEFT INNER

RIGHT INNER



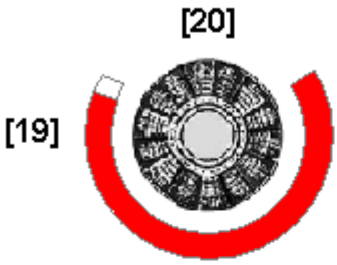
Engines

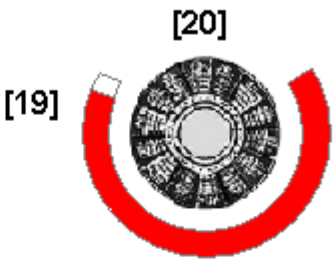
Sheet 9

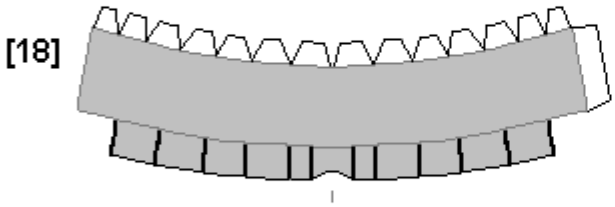
DC-6B

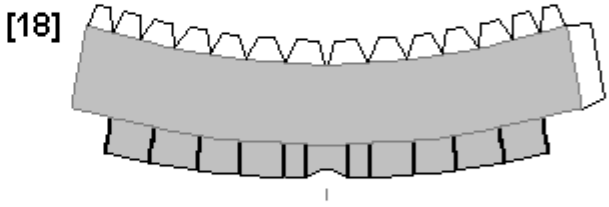
LEFT OUTER

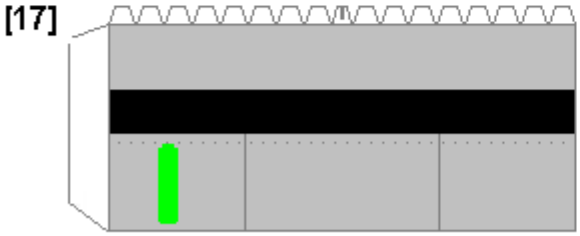
RIGHT OUTER

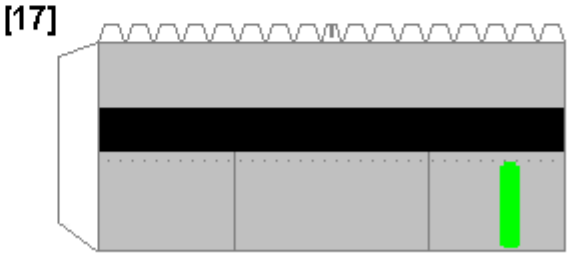


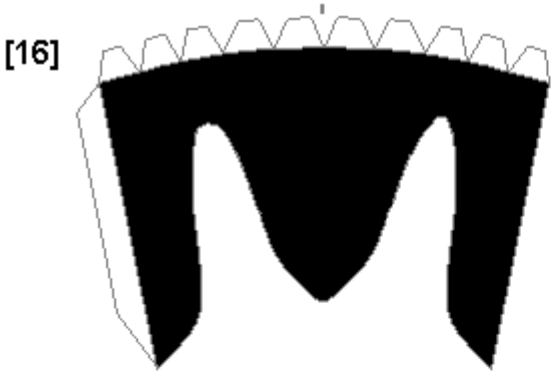


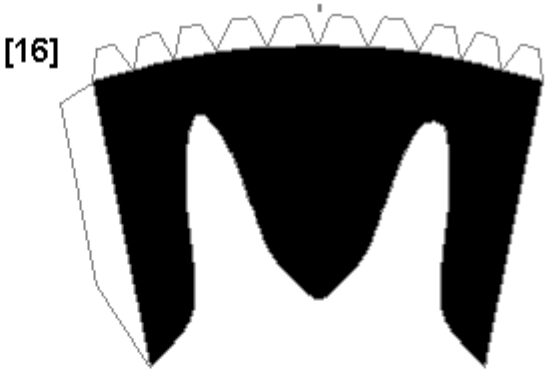


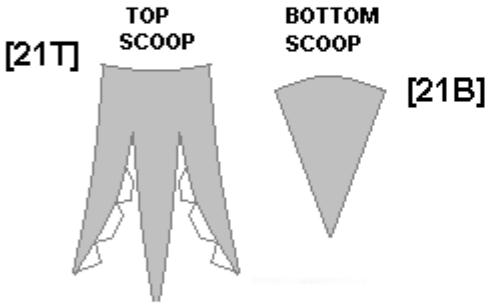


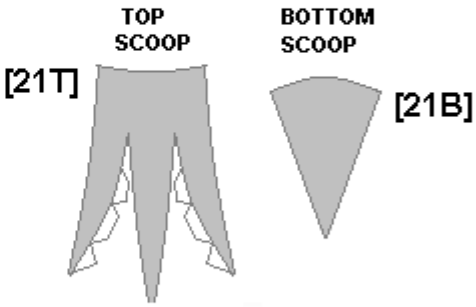












Engines

[27B]

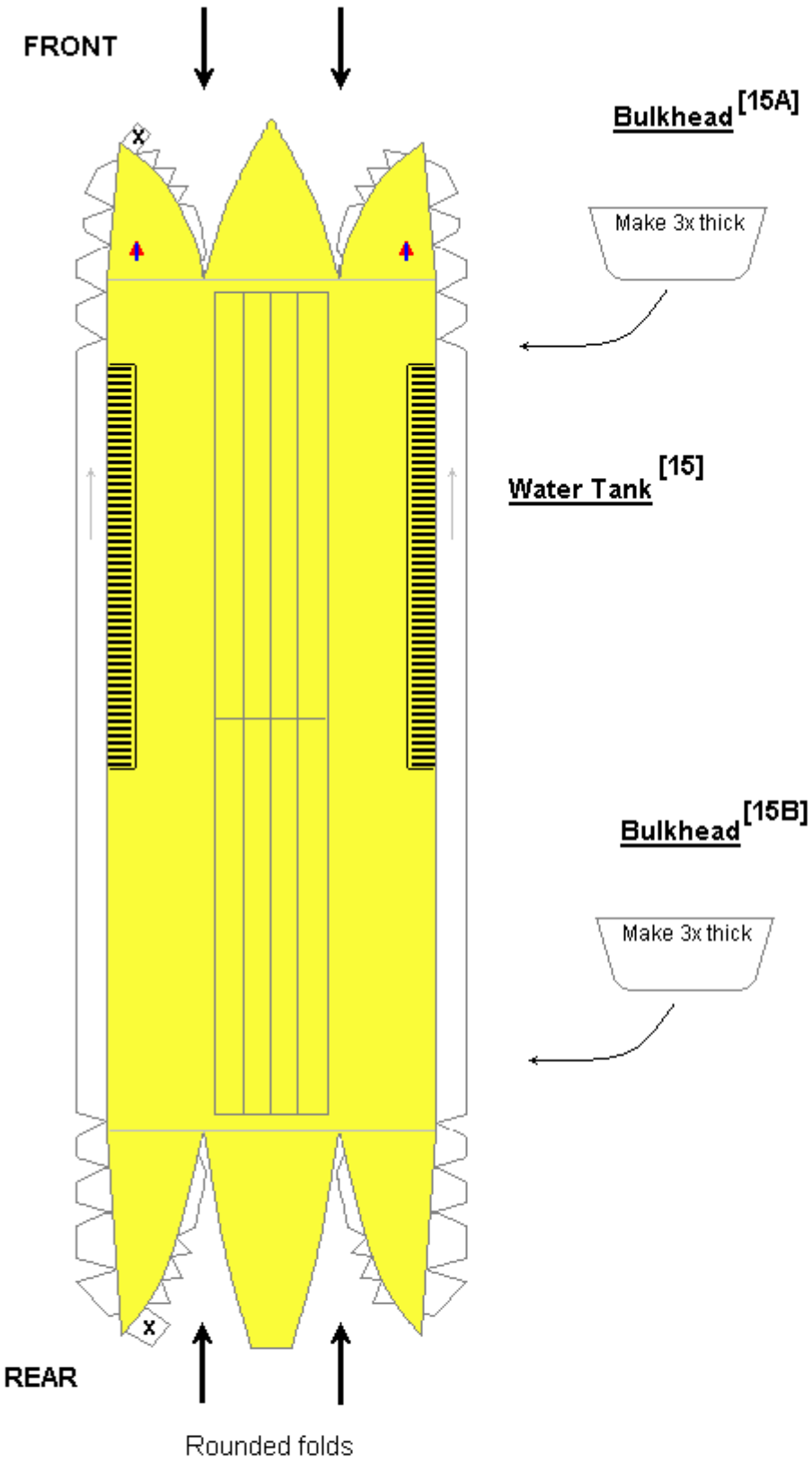
ENGINE CENTRE HUB

[27B]

ENGINE CENTRE HUB

Sheet 10

DC-6B



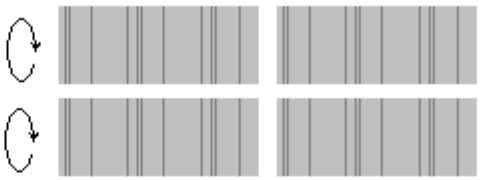
Sheet 11

DC-6B

[22]

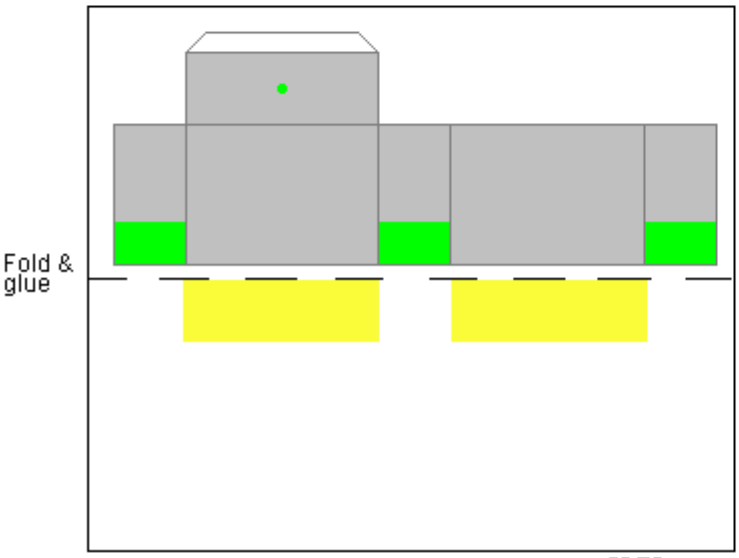
Exhaust

Fold/glue each grey portion on the black, and then roll lengthwise around a tooth-pick.
Note: black on inside of exhaust.



Wheel axle sleeves [26]

Roll around toothpicks, glue & slip on wheel axles (toothpicks).

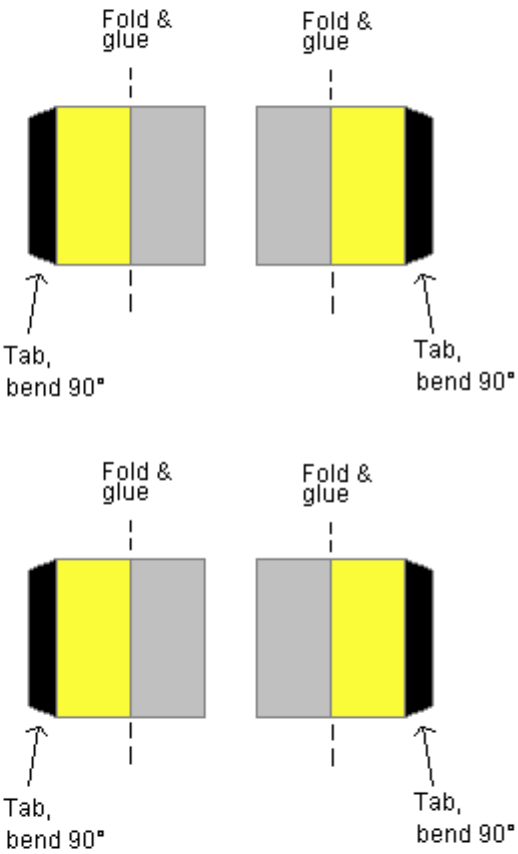


Nose Landing Gear Compartment with Flaps [25]

Fold, cut out and glue to a box, making sure that the grey and green colours are on the inside, the yellow on the outside.

Pierce the green dot - for the shaft of front wheel.

Finally, cut off 2 green end flaps.



Main Landing Gear Flaps [32]

Cut out each pair, bend tabs, fold, glue; give a slight curvature for authenticity, then glue in place.

Print on Paper

Sheet 12

DC-6B

4 Main Wheels

Form, roll glue

Wheel Profile

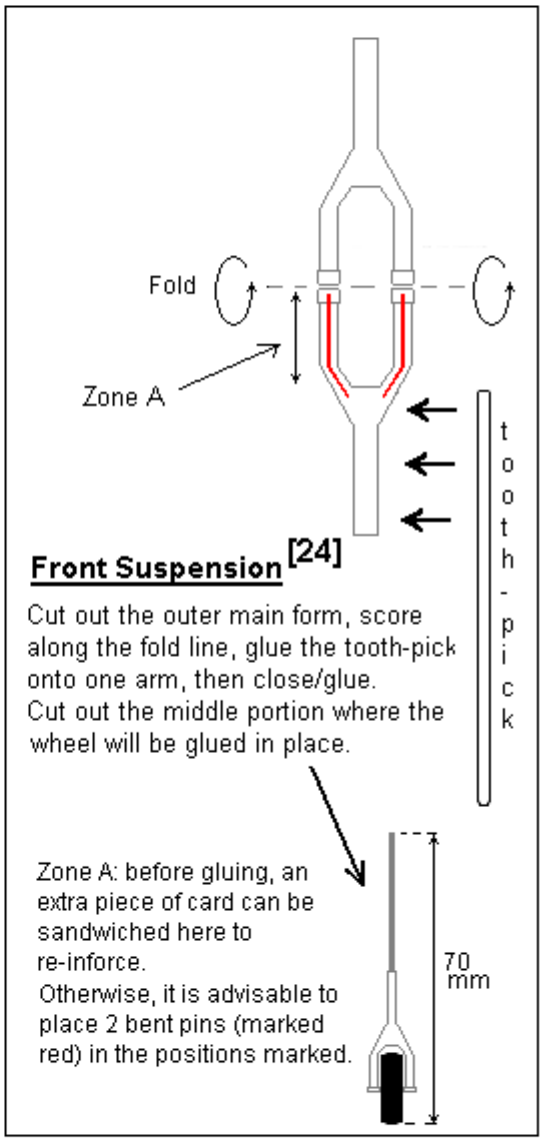
Glue on each tyre

Front Wheel [23]

Form, roll glue

Wheel Profile [23A]

Glue on tyre



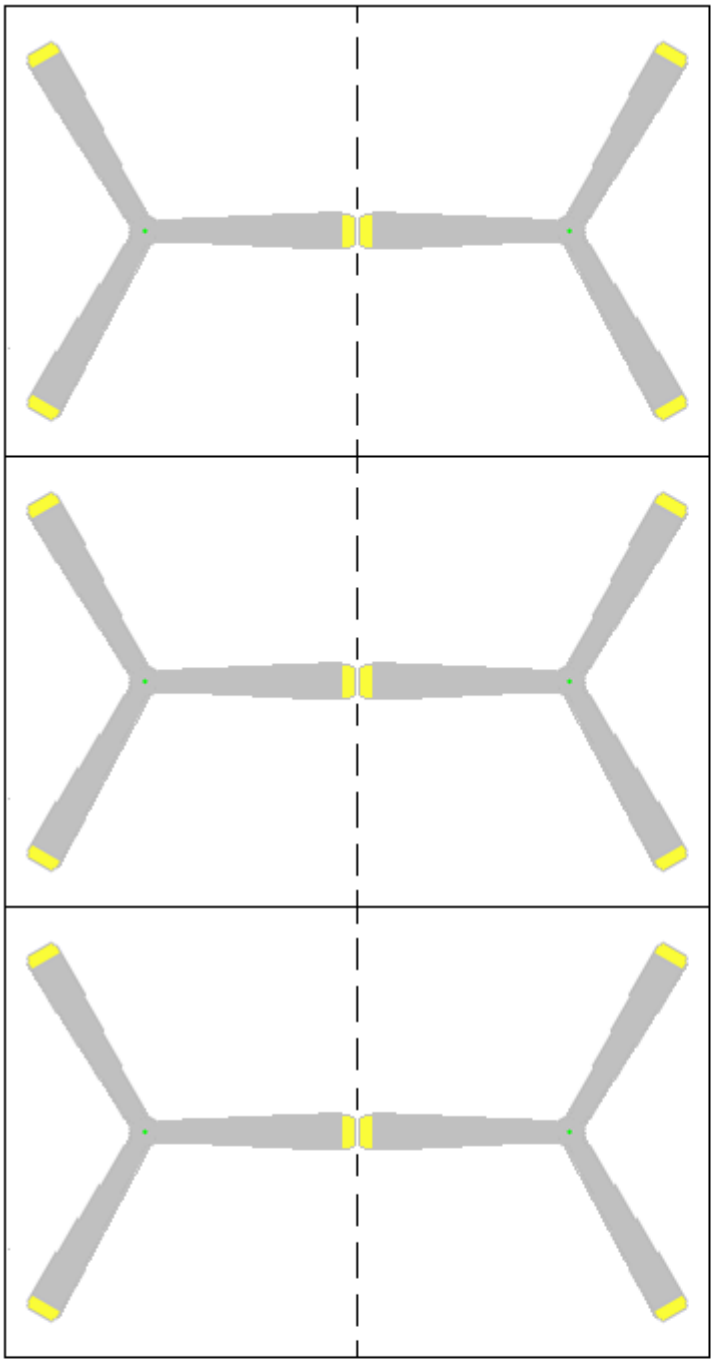
Front Suspension [24]

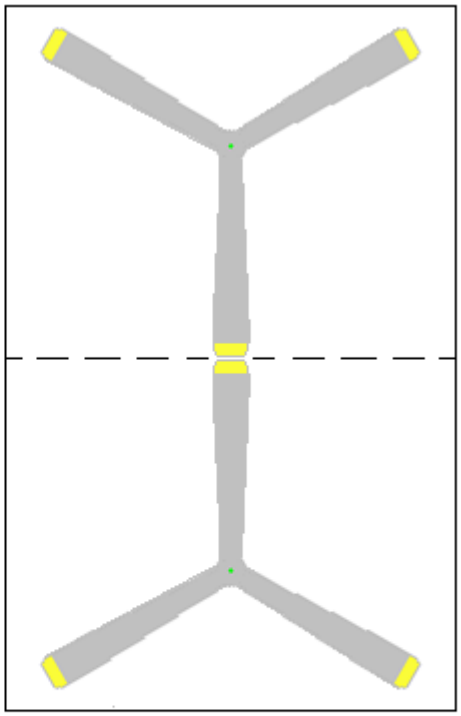
Cut out the outer main form, score along the fold line, glue the tooth-pick onto one arm, then close/glue.
Cut out the middle portion where the wheel will be glued in place.

Zone A: before gluing, an extra piece of card can be sandwiched here to re-inforce.
Otherwise, it is advisable to place 2 bent pins (marked red) in the positions marked.

Sheet 13

DC-6B

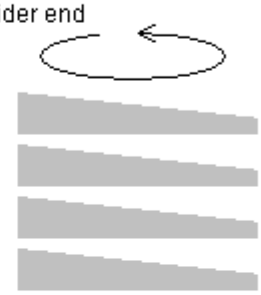




Props [26]

Fold along dotted line, glue, cut out, pierce centre.

Roll & glue, starting with wider end

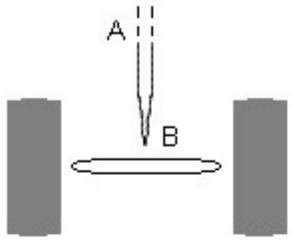


Prop Nose Cones [27]

Sheet 14

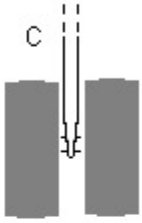
DC-6B

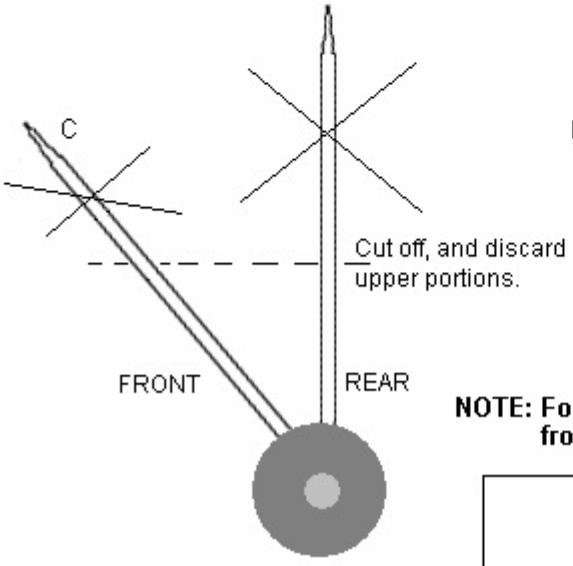
Main Wheels

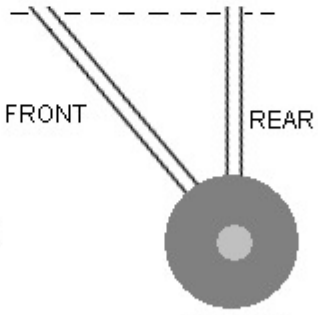


All parts shown to scale

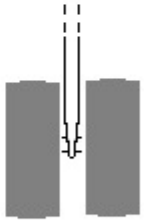
1. Cut 2 tooth-picks to give A and B. It will be necessary to sharpen the cut-off end of B.
2. Drill a small hole in B (or with a pin, widening with the point of a scissor blade).
3. Insert A into B and glue liberally.
4. On each end of B, push on wheel and glue well.
5. Carefully add tooth-pick C (if possible drilling another hole in B), and glue well.





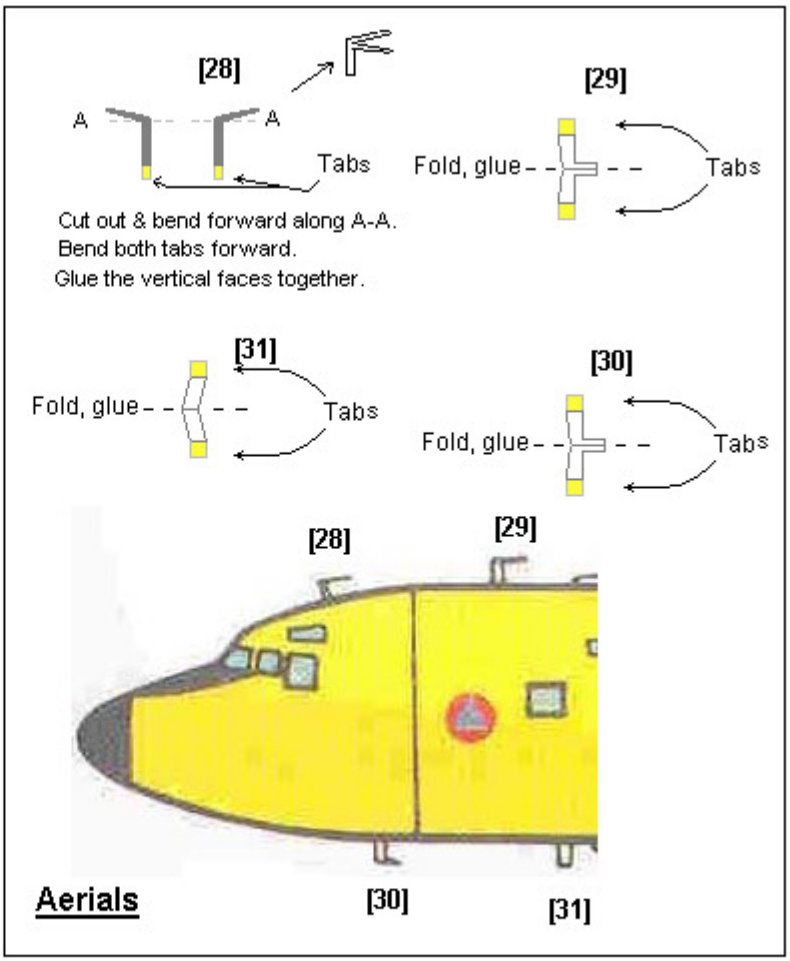


Side view



Front view

NOTE: For authenticity, use the Wheel Axle Sleeves [26] from the relevant Sheet.



Sheet 15

DC-6B