Bobs Card Models

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



Canadair CL-415 (1:72)

The Bombardier 415 (formerly Canadair CL-415) is a Canadian amphibious aircraft purpose-built as a water bomber. It is the only aircraft designed and built specifically for aerial firefighting and is based on the company's CL-215. It is marketed in the USA as the Superscooper.

General characteristics

Crew: 2 pilots

Payload: 1,350 imp gal (6,140 L) Length: 65 ft 1 in (19.82 m) Wingspan: 93 ft 10 in (28.6 m) Height: 29 ft 6 in (8.98 m)

Empty weight: 28,294 lb (12,834 kg) Max takeoff weight: 43,758 lb (19,848 kg)

Water capacity 6300 litres

Performance

Maximum speed: 234 mph (377 km/h) Range: 1,518 miles (2,443 km) Service ceiling 14,700 ft (4,500 m) Rate of climb: 1,378 ft/min (420 m/min)

Building Instructions

Bulkheads are labelled by letters A to E, all other parts are numbered. All green areas and slits, must be cut out, but only when told to do so.

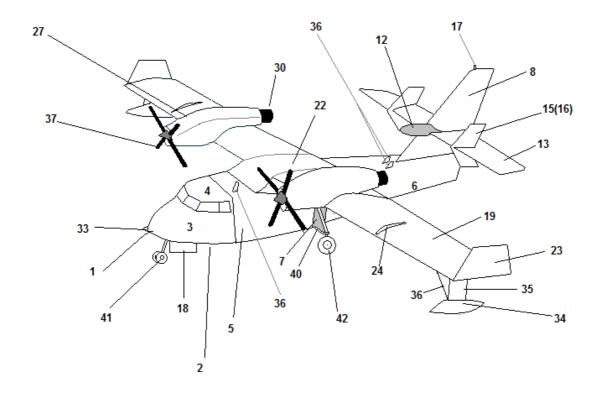
A: Fuselage

- 1. Cut out all bulk-heads A through E. Glue each onto (waste) card to give double strength.
- 2. Cut out the rear fuselage [6], fold/close/glue, and then insert/glue bulkheads $\bf D$ and $\bf E$ in the relevant positions.

- 3. Cut out central fuselage [5], fold, close and glue. Insert and glue in place the bulkheads **A**, **B**, and C1/C2
- 4. Glue on front fuselage parts [4], [3], [2] and [1].
- 5. Nose Landing Gear Compartment 18: Cut out, fold, glue, insert and glue in place.
- 6. Cut out green area in [2] and insert/glue Cut out slot on rear of fuselage to accept Fixing Bar [9]. Assemble and glue fixing bar with struts [10] and [11]. Lower strut [11] must lie flush with the bottom of the fin, and be glues to top of fuselage. Glue fin in place on top of rear fuselage.
- 7. **Rear Wing/Stabiliser:** Parts **13-16**. Cut out, fold, glue, assemble, and then fix on Fin. Finish by capping with **12** (**NB**: make sure it is glued in place horizontally). Add Tail Fin Light **17**.
- 8. **Front wings:** Cut out both wings **19R** and **19L**, and bend tabs, and close/glue each wing. Insert the struts **20**, and glue in place inside wings (using pointed barbecue sticks), so that in each wing a strut is glued flush at each end of wing, the other 3 distributed equidistantly within the wing.
- 9. Cut out wing cradle **21**, glue the 4 corner tabs and the side tabs, add and glue the strengtheners under the lip, and glue cradle in position on the fuselage.
- 10. Glue the wing in position on the wing cradle.
- 11. Glue the cradle cover **22** in position, carefully positioning and gluing the 2 strips under each wing. Trim excess card.
- 12. Glue on both wing fin tips **23**.
- 13. Glue on the spoilers **24** on each wing ³/₄ of the way to wing tips on the top of the wings 'position marked).
- 14. Cut out the 8 Aileron Hinges 25 and glue each on the underside of each wing on the positions marked.
- 15. **Engine Cowlings:** Cut out [27], and assemble. Round the central portion to fit the bulkheads [28] and [28A]. Glue on wing, fit Exhaust [30]. Repeat for right-hand cowling.
- 16. Cut out and attach the 3 radio masts **32**, and the nose radar **33**.
- 17. Wing floats.
- 65. Cut out the two floats **34**, assemble and glue
- 71. Cut out the float supports **35**, glue in place (Note: the cross-section should be slightly rounded, and not flat).
- 72. Add the diagonal struts **36** for strength.
- 18. **Propellers:** Cut out propellers [37], and glue to give 3x thickness. Pierce centre with a pin, and expand hole to about 1mm diameter. This hole will accommodate the cocktail sticks.
- 19. Cut out hubs [38], glue to a cone and when dry, cut out the 4 recesses which will accommodate the propeller. Insert propeller, glue. Insert cocktail stick and glue amply.
- 20. Pierce the engine cowling to accommodate the cocktail stick, push in the propeller/cocktail stick assembly.
- 73. Cut out Air Intake [39] for each wing, bend back tabs, glue tabs, glue in place under each engine cowling.
- 74. Photo 2: construction complete. Photo 3 shows details of the rear undercarriage.
- 21. **Landing Gear:** all four wheels should be formed by rolling the glued black strips **41** and **42** around a pin.
- 22. Use 2mm cocktail sticks for stability; they can either be painted grey, or a sleeve of grey paper **43** rolled around them (see sheet **3_paper.jpg**).
- 23. **Front double-wheel:** in the front landing gear box, pierce 2 holes using a pin, through the box and further through the fuselage nose under the cockpit (see diagram).
- 24. Cut the cocktail stick to size, and insert through the hole(s). Glue amply in place.
- 25. The two wheels are glued on either side of the lower tip of the cocktail stick. For more support, a pin at right-angles to the stick can be inserted, which acts as an axle to the two wheels.
- 26. **Rear Landing gear:** See the diagram. The strut is composed of a top and bottom. Cut out the 2 struts [40], pierce the 2 holes in each, and re-glue onto card to make 5x thickness. Cut out. Insert the cocktail sticks, cut to size, and glue amply

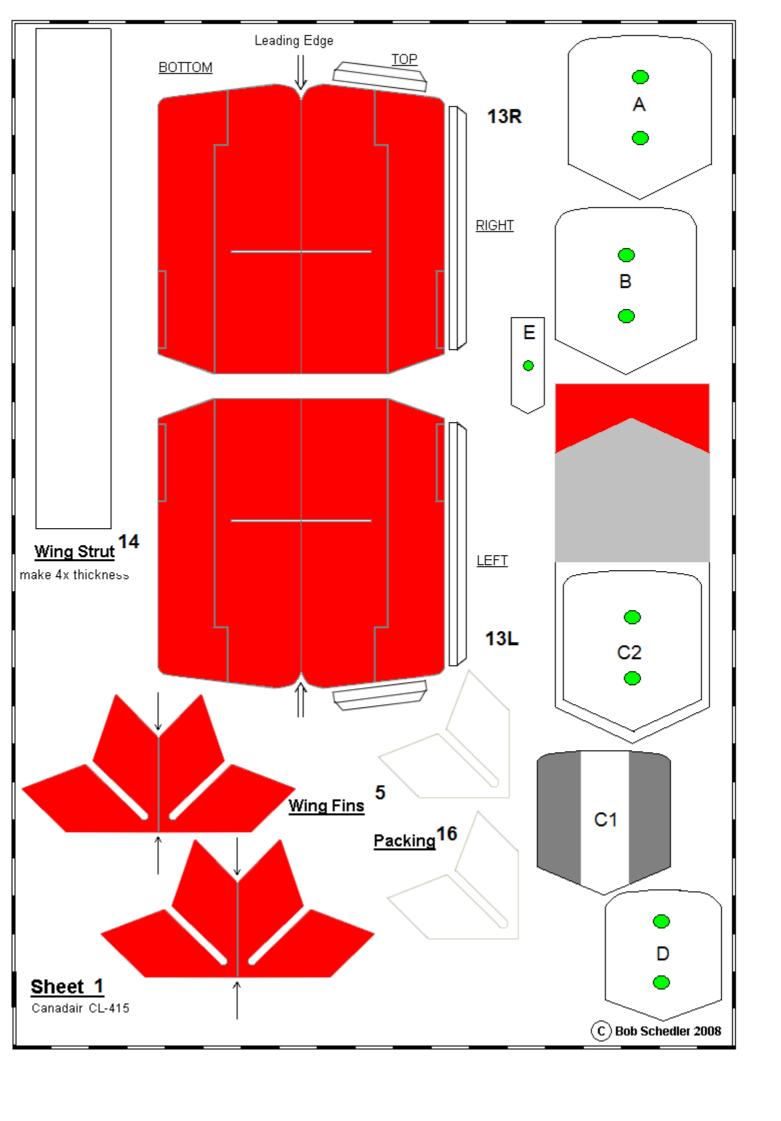
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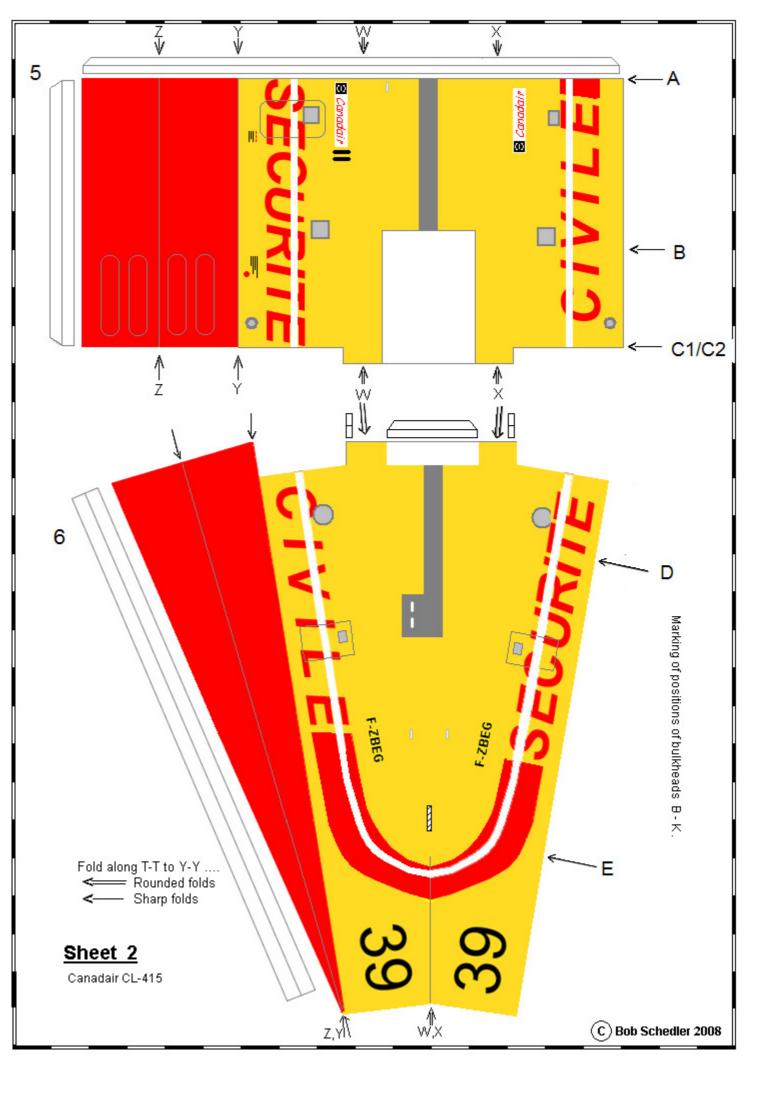
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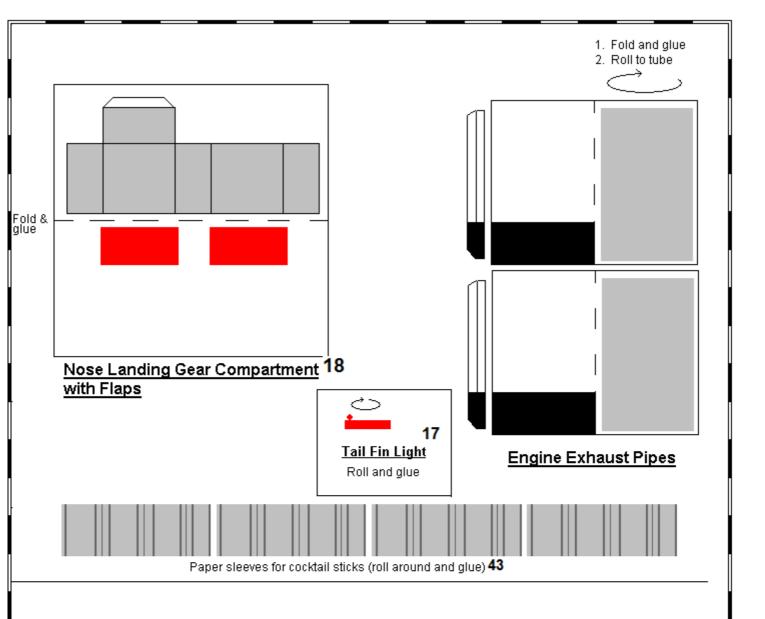


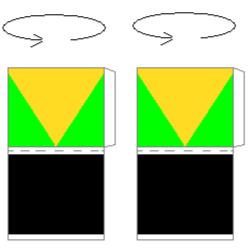












<u>Air Intake</u>39

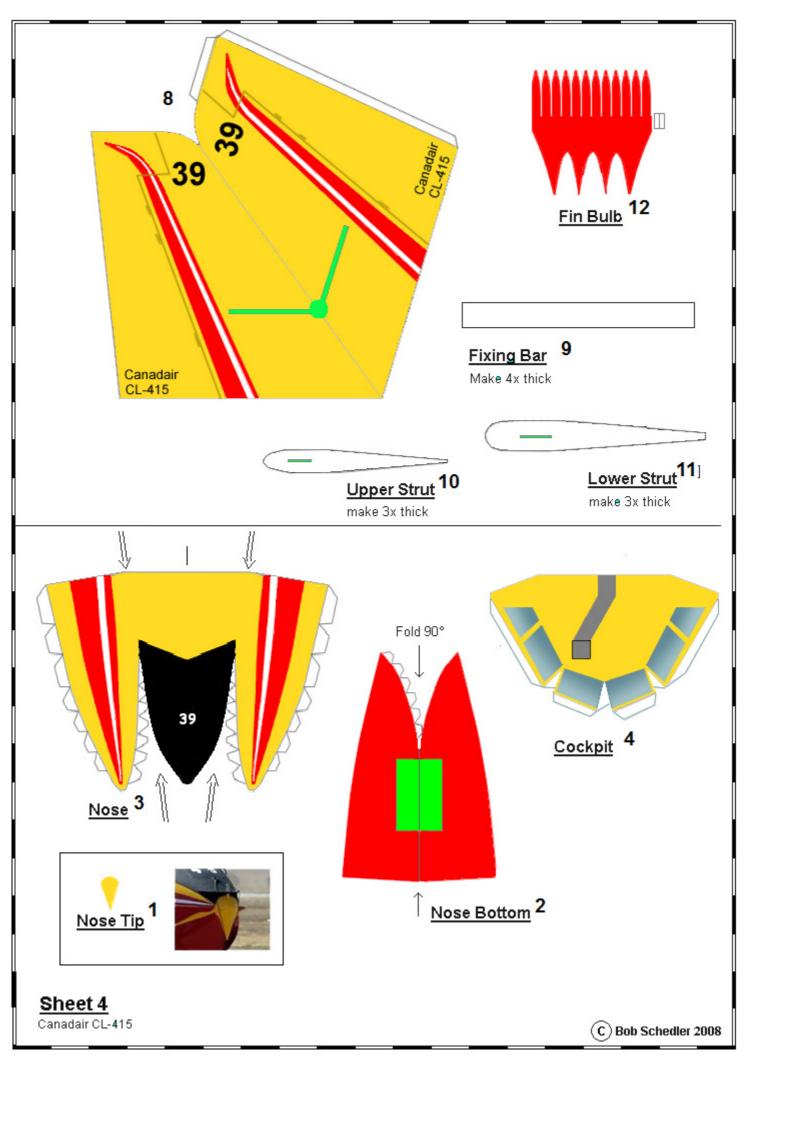
Cut out, fold, glue. Form around ca 8mm rod (black inside), glue tab. When dry, cut out green area. Flatten to oval form, glue under each engine.

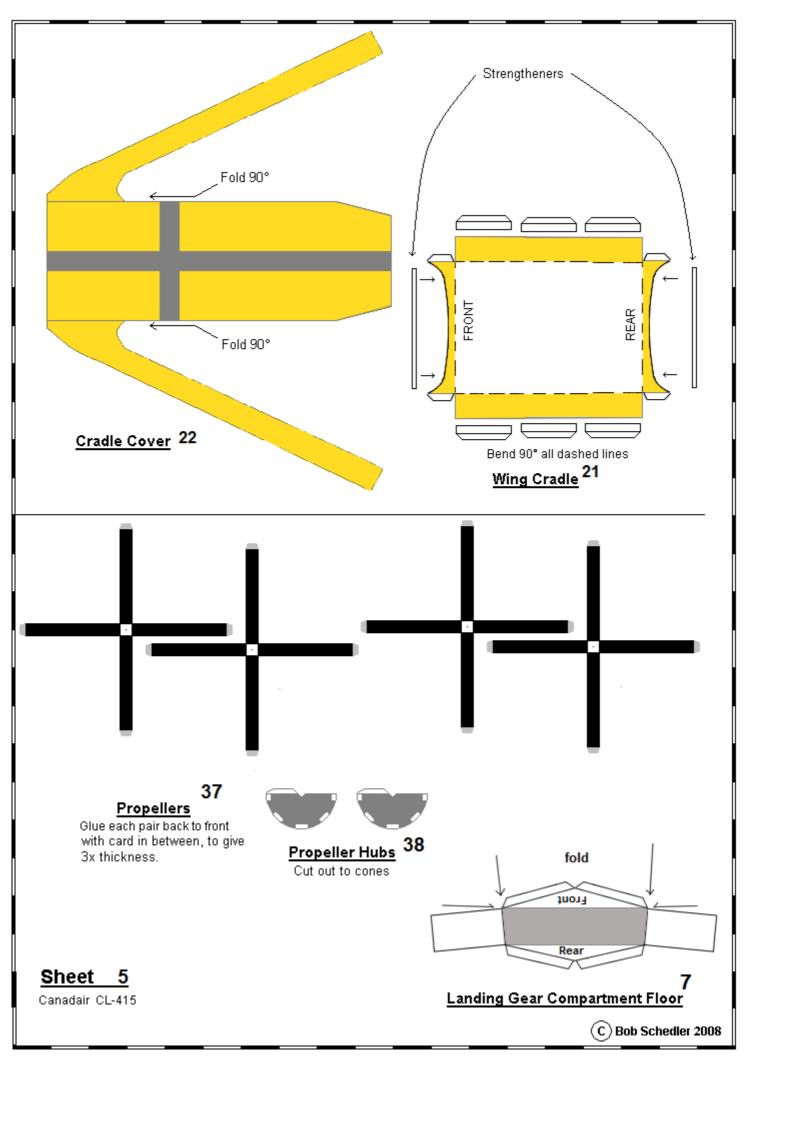
Sheet 3

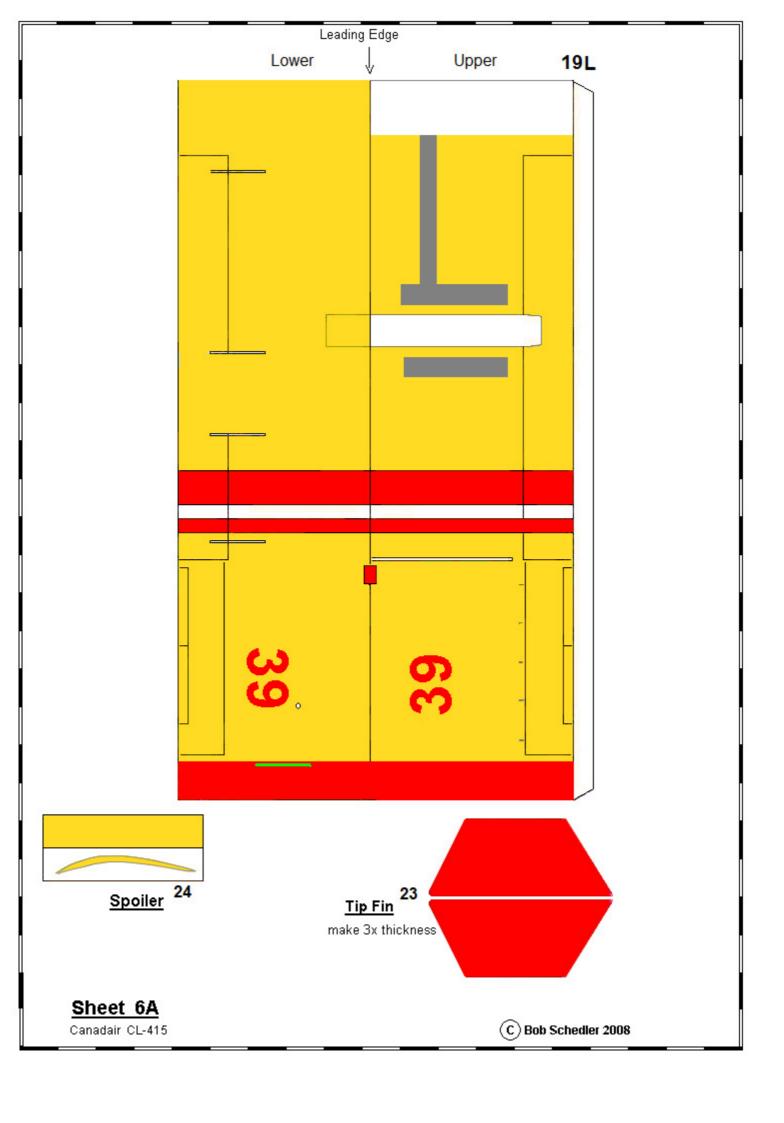
PRINT ON PAPER

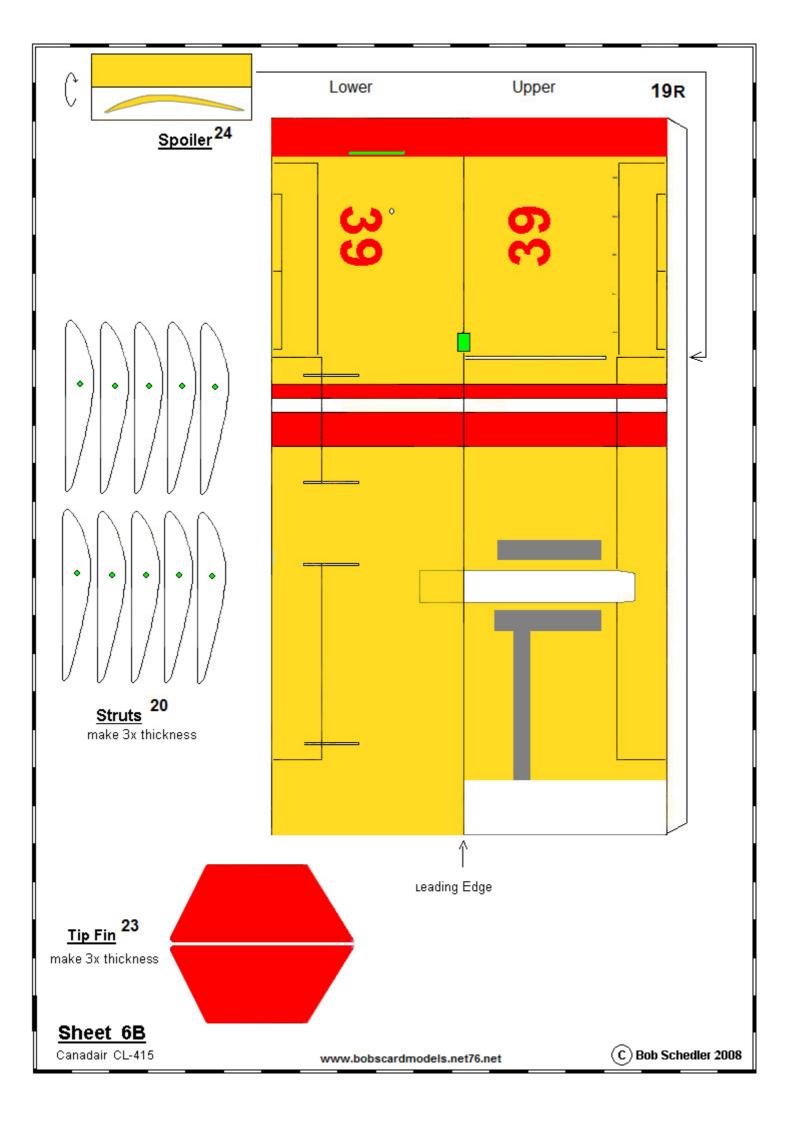
Canadair CL-415

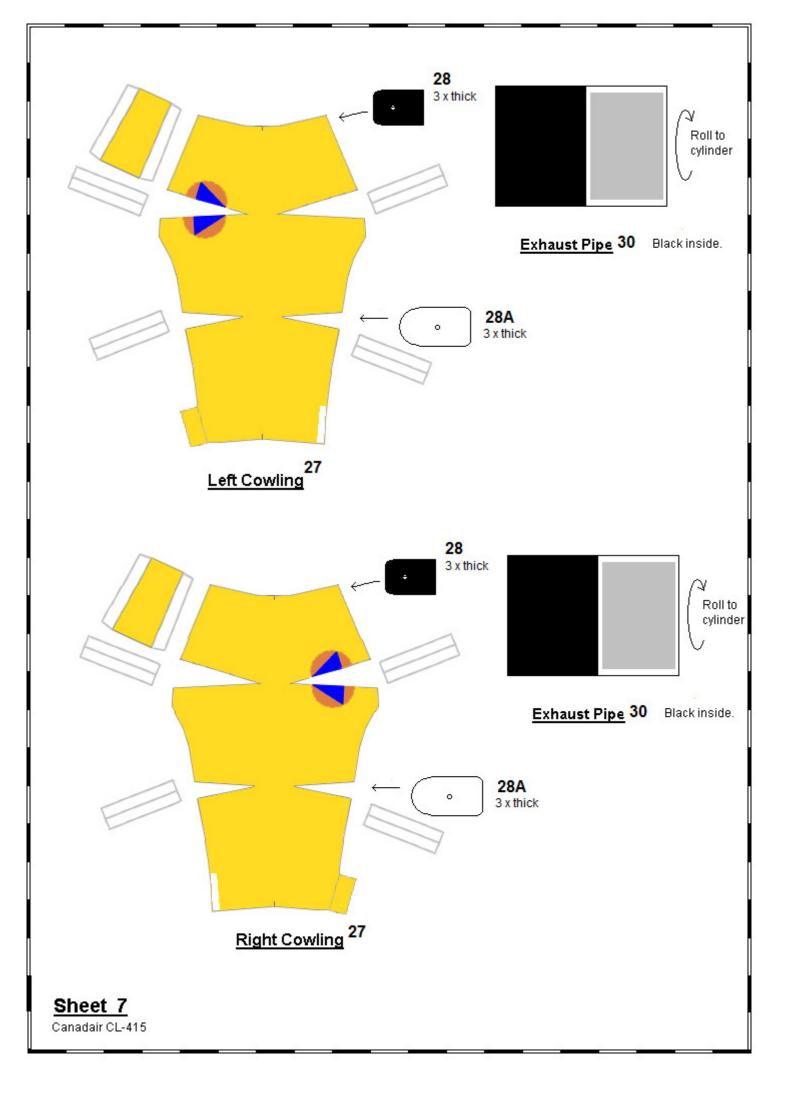
(C) Bob Schedler 2008

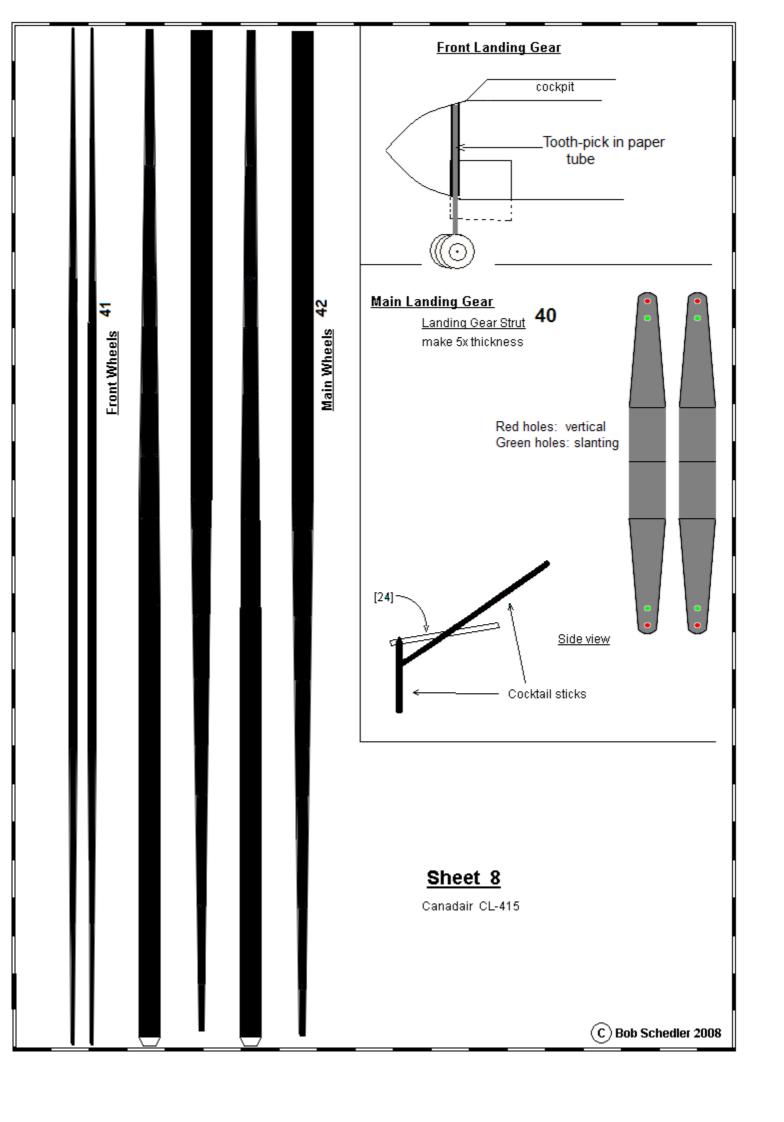


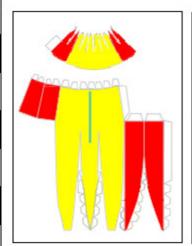


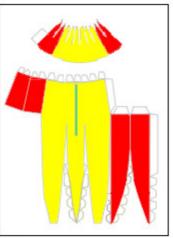




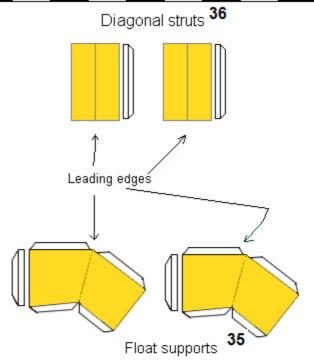








Floats 34



111

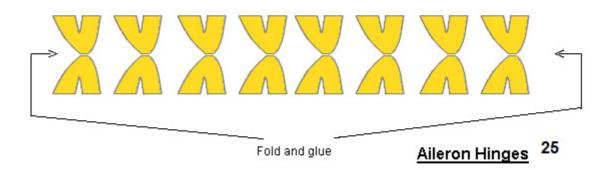
Radio mast

Make 2x thickness
Glue on 1 mast just behind cockpit on top,
LH side. The other 2 just in fron of the tail
fin

(

Nose radar

Fold, glue, cut out, and glue to front of nose



Sheet 9

Canadair CL-415

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