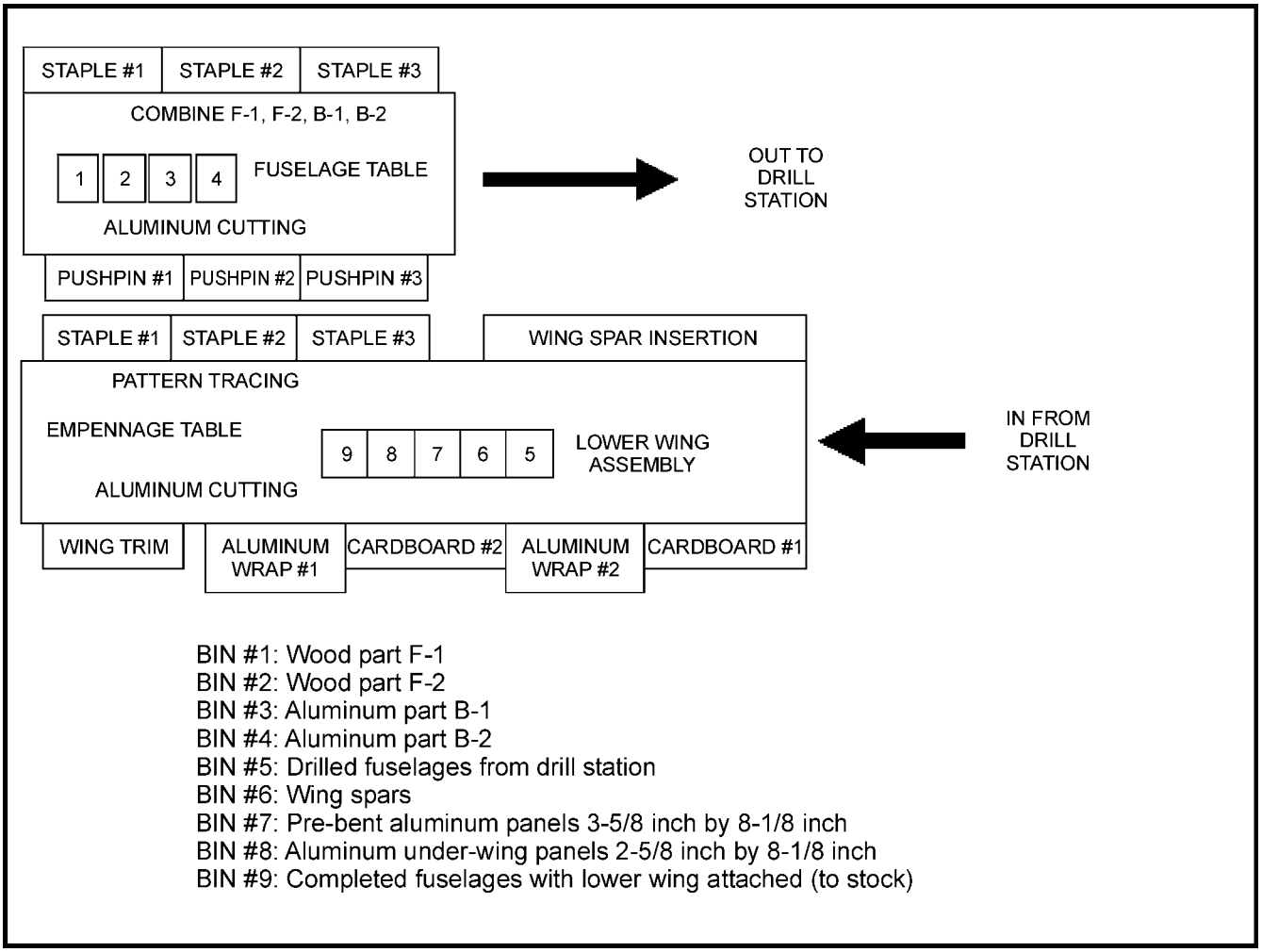
FUSELAGE AND BOTTOM WING ASSEMBLY LINE



Director Cadets 3, 2007, Ottawa, ON: Department of National Defence

Figure AC-1 Fuselage and Bottom Wing Assembly Line

For each aluminum model biplane to be constructed:

1. Combine parts F-1, F-2, B-1 and B-2 with staples to make a full fuselage (Figure 17AC-2).
2. Slide Template No. 1 over full fuselage (Figure 17AC-3).
3. Use push-pins to create holes in fuselage through Template No. 1.
4. Trace, but do not cut, the openings for the cockpit and windshield.
5. Remove Template No. 1 from fuselage (to stock for Drill Station).
6. Insert bottom wing spars in fuselage holes A and B (spars/fuselage from stock).
7. Tape cardboard parts BWC to bottom wing spars (BWC and spars from stock) (Figure 17AC-4).
8. Tape or glue cardboard part BWAS to top of BWC (BWAS/BWC from stock).
9. Repeat Steps 7. and 8. for other wing.
10. Wrap top of left bottom wing with pre-bent aluminum panel (from stock) (Figure 17AC-5).

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11. Wrap top of right bottom wing with pre-bent aluminum panel (Figure 17AC-6) (from stock).

12. Insert under-wing panel (dimensions 2-5/8 inch by 8-1/8 inch) into left wing (Figure 17AC-7).

13. Insert under-wing panel (dimensions 2-5/8 inch by 8-1/8 inch) into right wing (Figure 17AC-7).

14. Staple panels (three staples) at left wing tip (Figure 17AC-8).

15. Staple panels (three staples) at right wing tip (Figure 17AC-8).

16. Trim wing tips to desired shape.

17. Make two slits for the windshield (Figure 17AC-9).

18. Trim cockpit aluminum to avoid blocking pilot hole in F-1 (Figure 17AC-10).

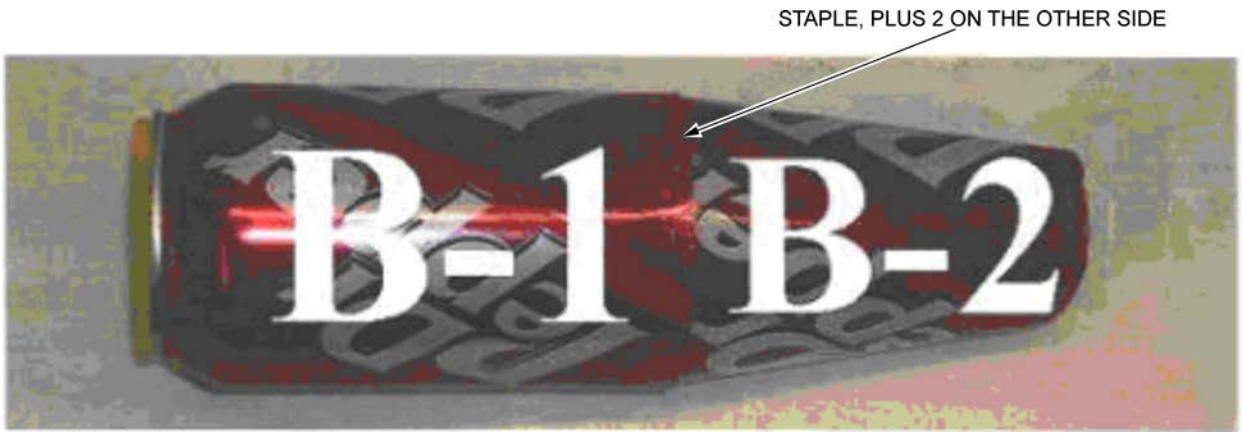
19. Carefully turn biplane upside down.

20. Split cockpit back in half so it will fold down and place wire insulation on cockpit edging (Figure 17AC-11).

21. Turn the Wing Bolt Hole Placement Template (WBHPT) upside down also, and apply WBHPT to the underside of the bottom wing Figure 17AC-12).

22. With a push-pin, make holes for four outer bolts in the bottom wing near the wing tips. Do not make holes near the fuselage (fuselage with bottom wing to stock).

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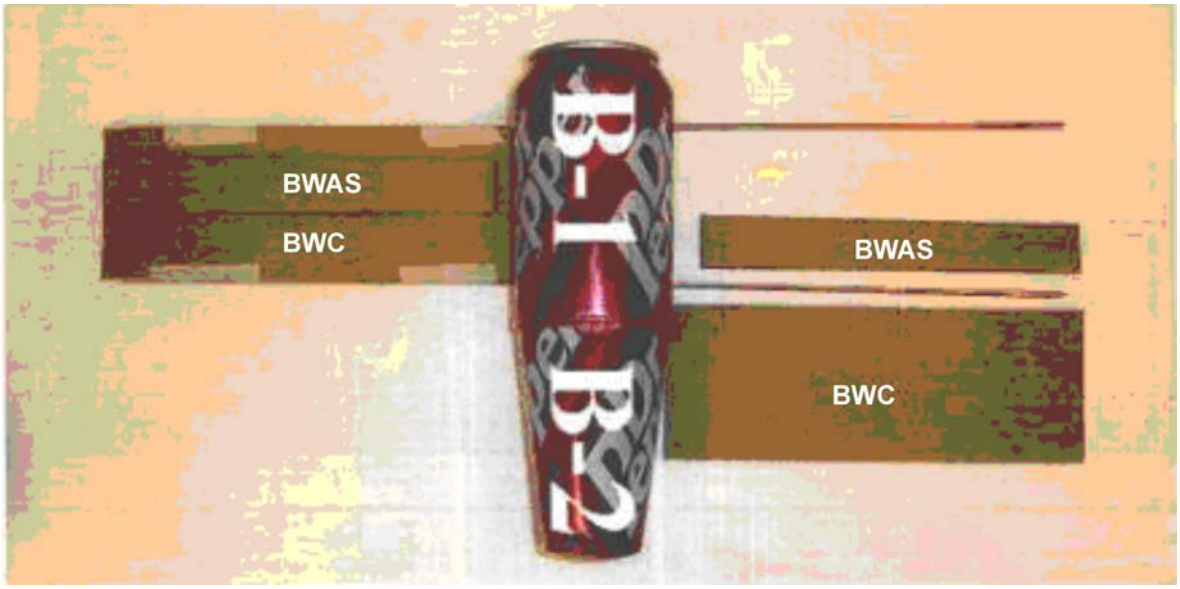
D. P. Mathis, Building the B.C. Air Originals Biplane, B.C. Air Originals (p. 6)

Figure AC-2 Fuselage Assembly



Building the B.C. Air Originals Biplane, by D. P. Mathis, B.C. Air Originals (p. 6)

Figure AC-3 Fuselage With Clear Mylar Template Placed Around



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Figure AC-4 Getting Its Wings

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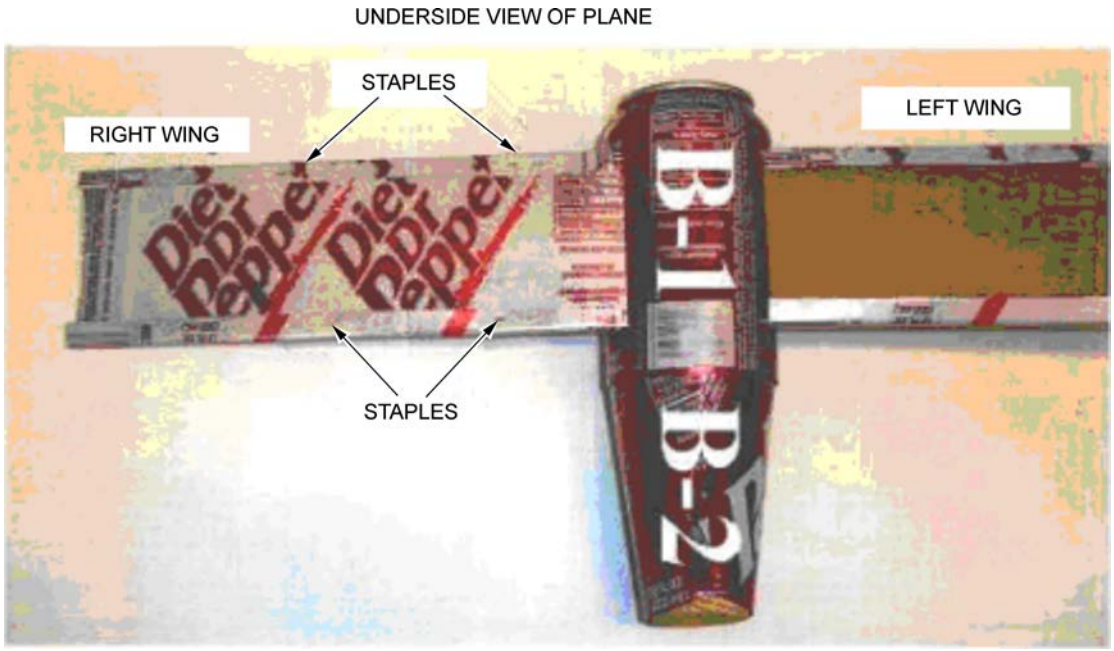
Figure AC-5 Cladding the Wings



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Figure AC-6 Under the Wings

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Figure AC-7 Cladding the Under-wing



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Figure AC-8 Securing the Wing Tip

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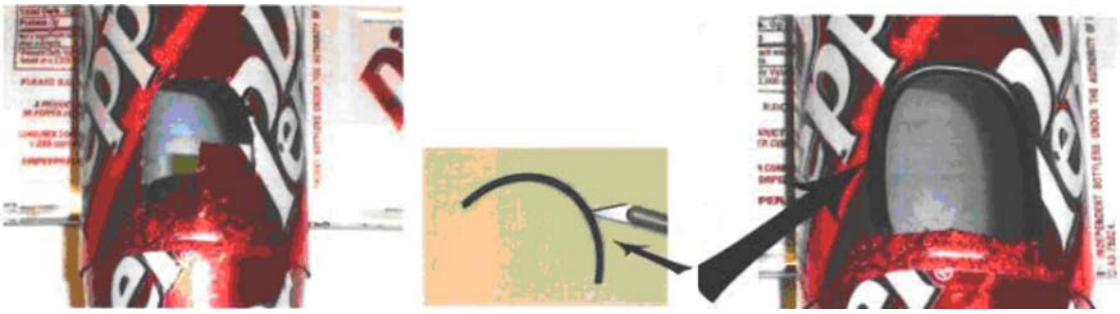
Figure AC-9 Roughing the Cockpit and Windscreen



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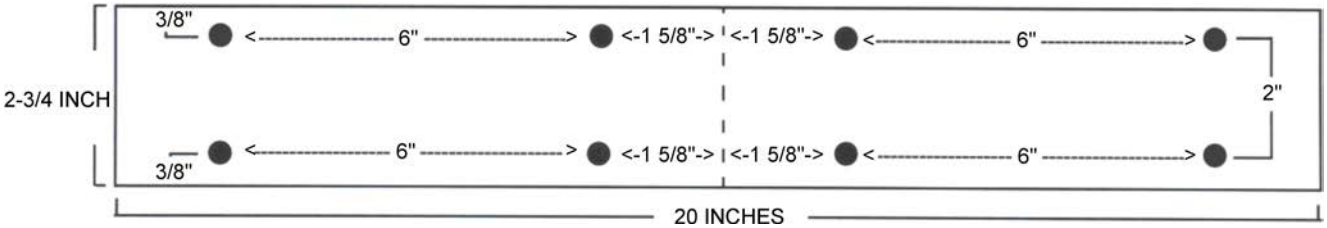
Figure AC-10 Clearing the Centre Line

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Figure AC-11 Opening and Trimming the Cockpit



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Figure AC-12 Wing Bolt Hole Placement Template (WBHPT)

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