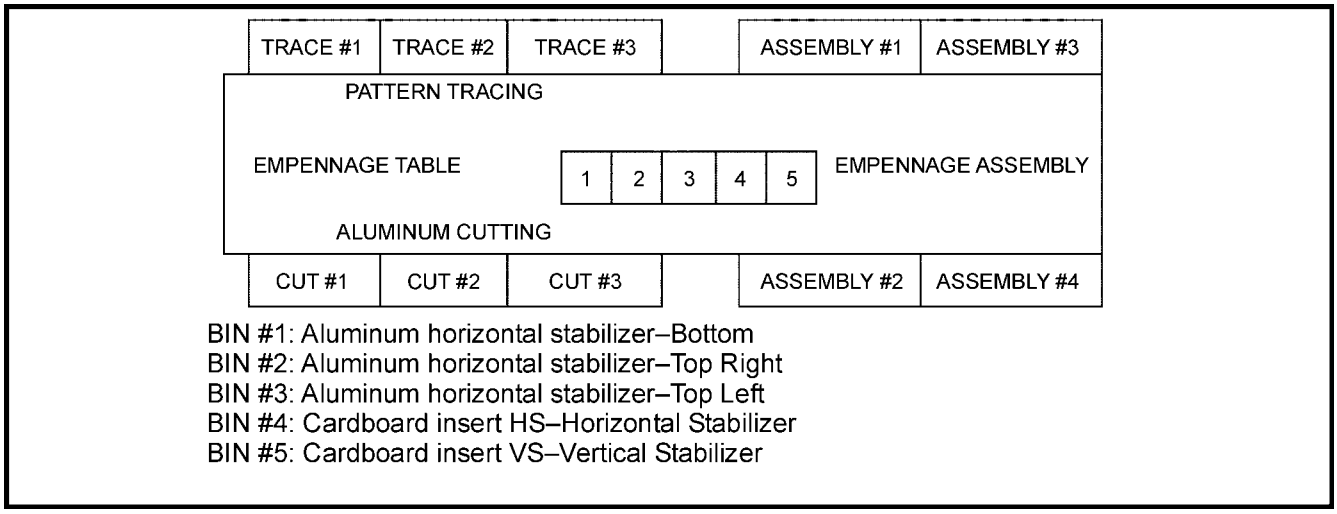
EMPENNAGE ASSEMBLY LINE



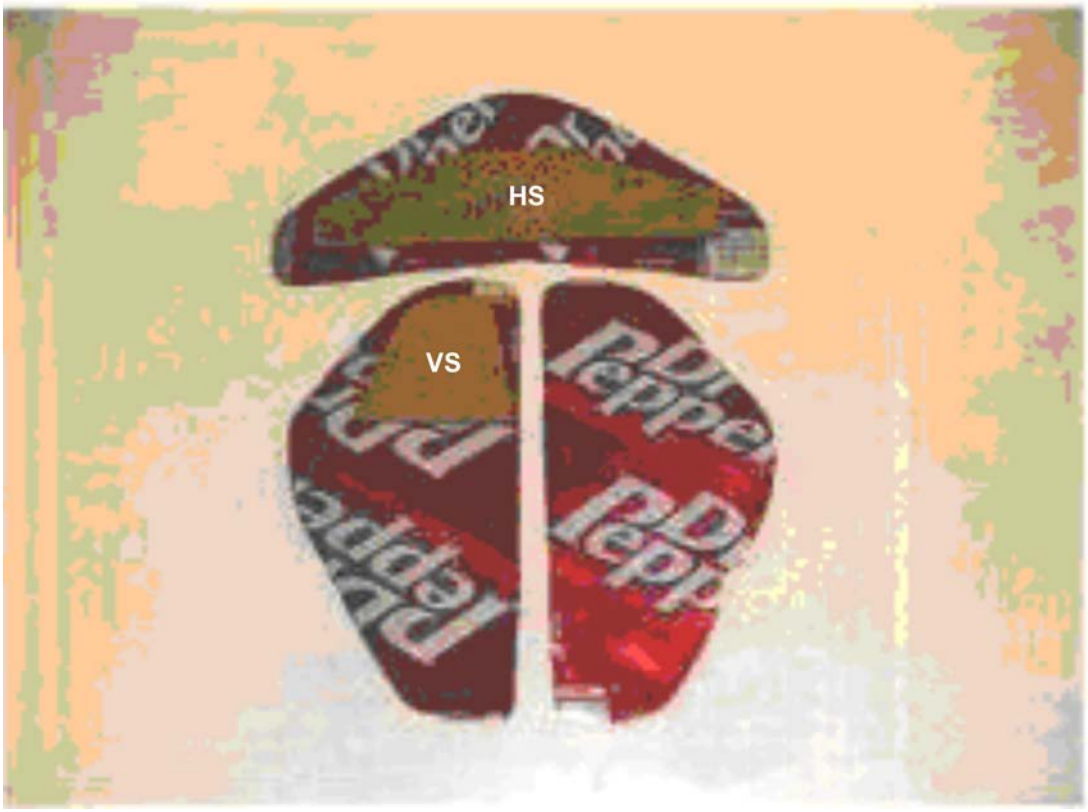
Director Cadets 3, 2007, Ottawa, ON: Department of National Defence

Figure AE-1 Empennage Assembly Line

For each aluminum model biplane to be constructed:

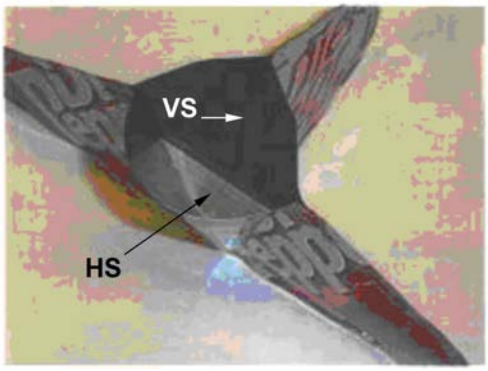
1. Trace Template No. 8 onto one raw aluminum billet (from stock).
2. Cut with scissors (Figure 17AE-2).
3. Trace Template No. 9 onto one raw aluminum billet (from stock).
4. Cut with scissors one horizontal stabilizer top right (Template No. 9) (Figure 17AE-2).
5. Trace Template No. 10 onto one raw aluminum billet (from stock).
6. Cut with scissors one horizontal stabilizer top left (Template No. 10) (Figure 17AE-2).
7. Score one horizontal stabilizer bottom (Template No. 8).
8. Score one horizontal stabilizer top right (Template No. 9).
9. Score one horizontal stabilizer top left (Template No. 10).
10. Combine cardboard pieces HS and VS with aluminum parts (Figure 17AE-3), to include:
    a. one scored horizontal stabilizer bottom (Template No. 8),
    b. one scored horizontal stabilizer top right (Template No. 9), and
    c. one scored horizontal stabilizer top left (Template No. 10).
11. Carefully bend the aluminum parts to form a complete empennage (Figure 17AE-4).
12. Staple the complete empennage.

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Figure AE-2 Parts of the Empennage



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Figure AE-3 Forming the Empennage

Match up the left and right Vertical Stabilizer parts and staple them together, placing staples approximately 3/8 inch from the outside edge. Insert cardboard VS between the two Vertical Stabilizer halves.

Match up the Horizontal Stabilizer parts and staple only the back end together. Insert the cardboard HS between the Horizontal Stabilizer panels.

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Figure AE-4 Forming the Empennage

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