TOOLS AND MATERIALS REQUIRED TO CONSTRUCT AN ALUMINUM MODEL BIPLANE

Tools

- Mechanic's gloves,
- Ball-peen hammer,
- Pliers,
- Flat screwdriver,
- Rasp,
- Hand stapler,
- Staple gun,
- Push-pin,
- Hot glue gun,
- Awl,
- Wire cutters,
- Box knife,
- Scissors,
- Ruler,
- Felt-tipped pen,
- Needle-nose pliers,
- Adjustable wrench,
- Electric hand drill,
- Hole saw 2-3/4 inch bits, and
- Hole saw 1-7/8 inch bits.

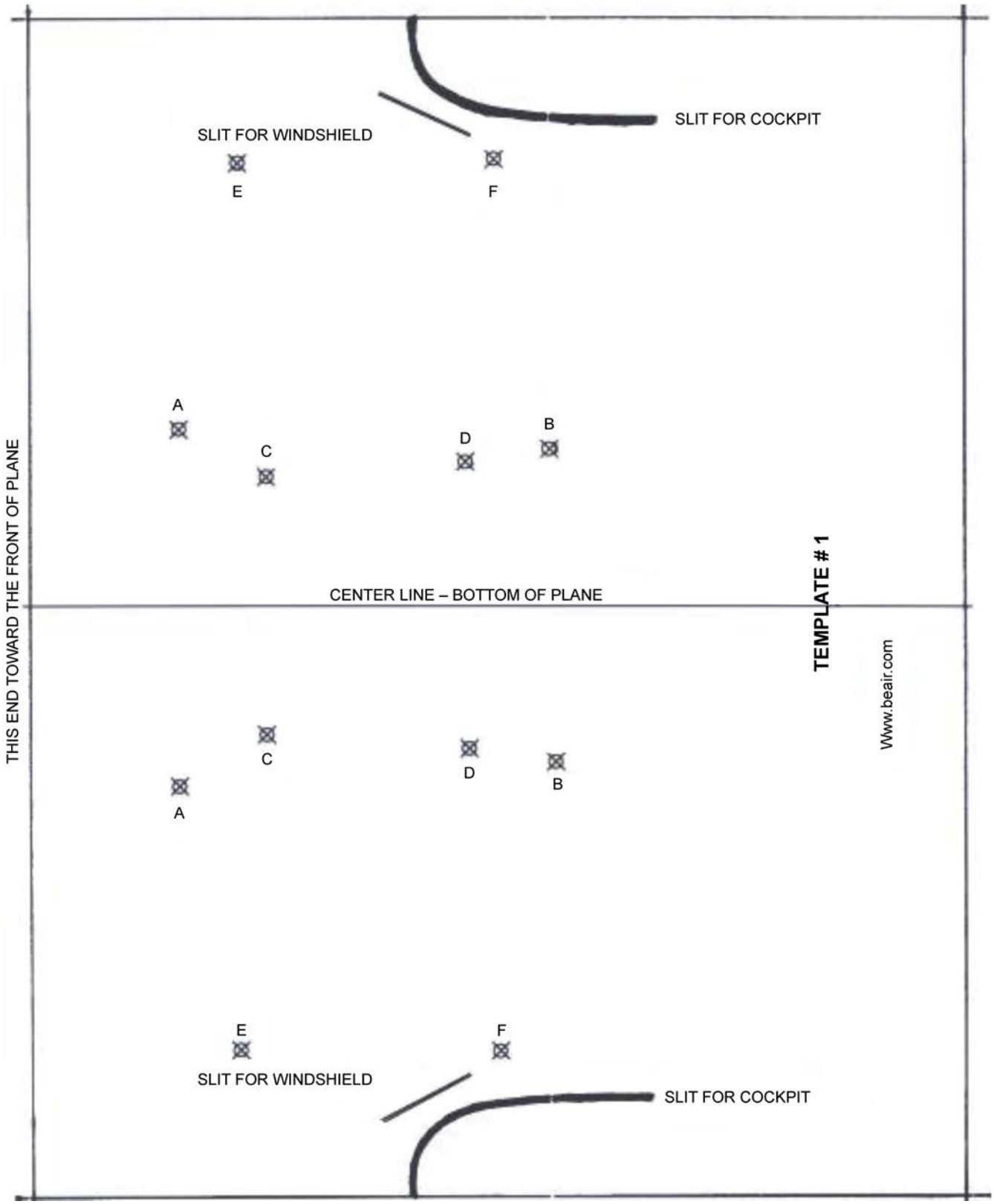
Materials

- Empty aluminum beverage cans (36 per cadet),
- Softwood, 20 mm thick (fence boards),
- Bottle caps (ten per cadet),
- Corrugated cardboard,
- Poster board,
- Tape (masking),
- Glue,
- Mylar,
- Copper-coated welding rod (2 sizes 1/16 inch and 3/32 inch),
- Cap nuts or toothpaste tube caps (two per aluminum model biplane),
- Bolts, 2-1/2 inch 10-24, with nuts (four per aluminum model biplane),

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Verify against the official publication.

- Bolts, 3-1/2 inch 10-24, with nuts (eight per aluminum model biplane), and
- Wire clip (speed nut) to fit the copper coated welding rod (two per aluminum model biplane).

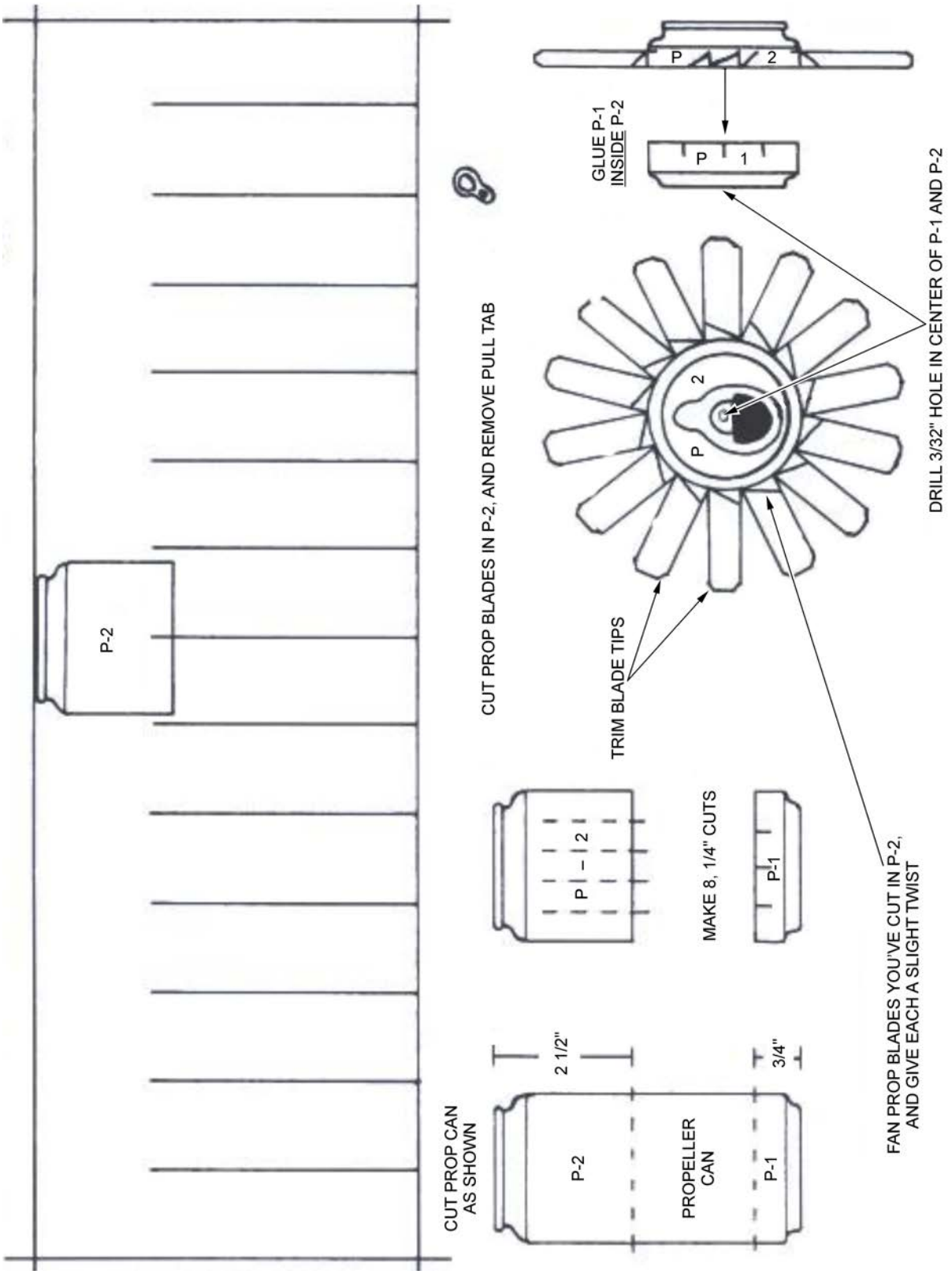
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Figure T-1 Fuselage Template

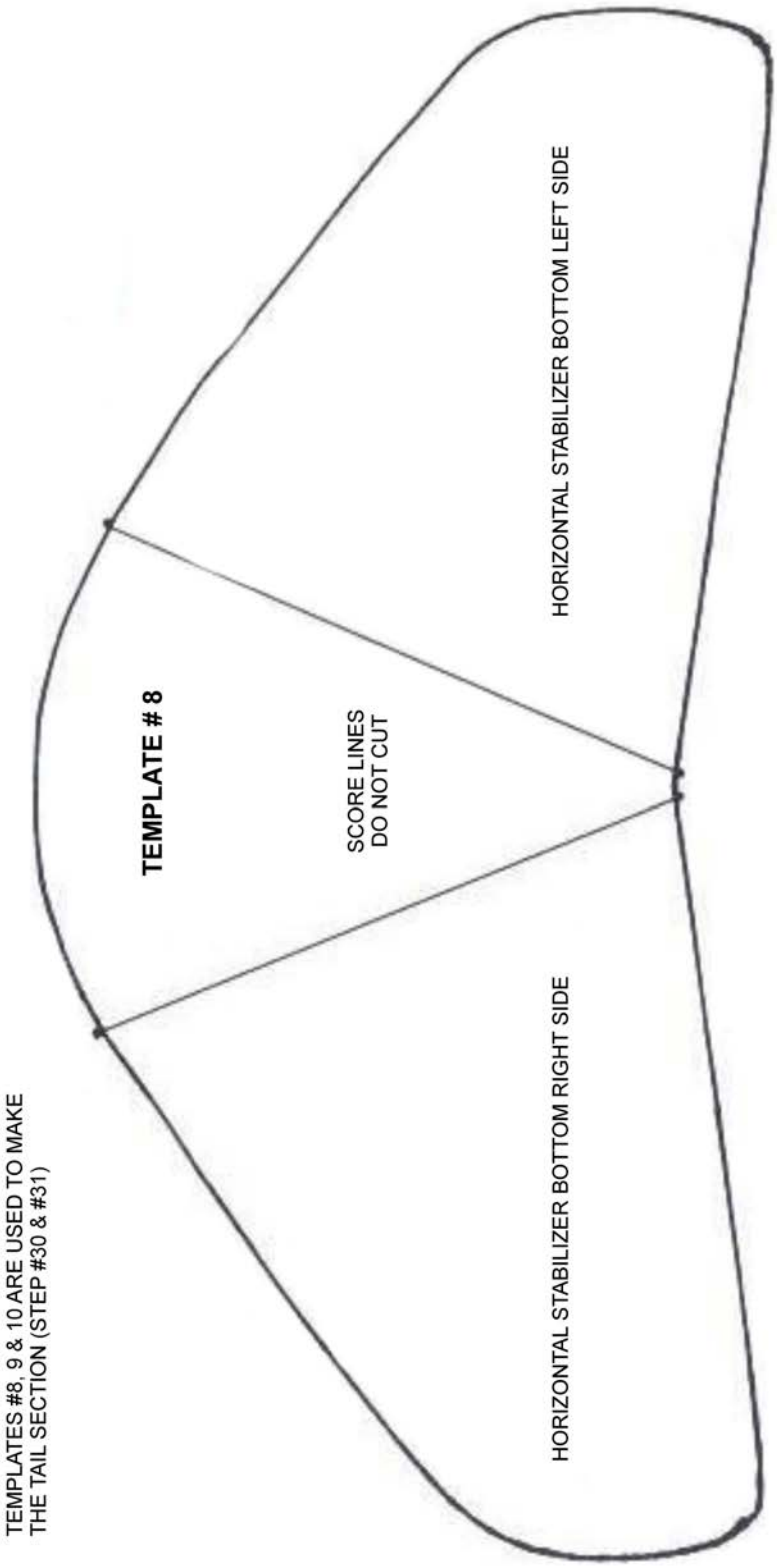
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Figure T-2 Fuselage Template

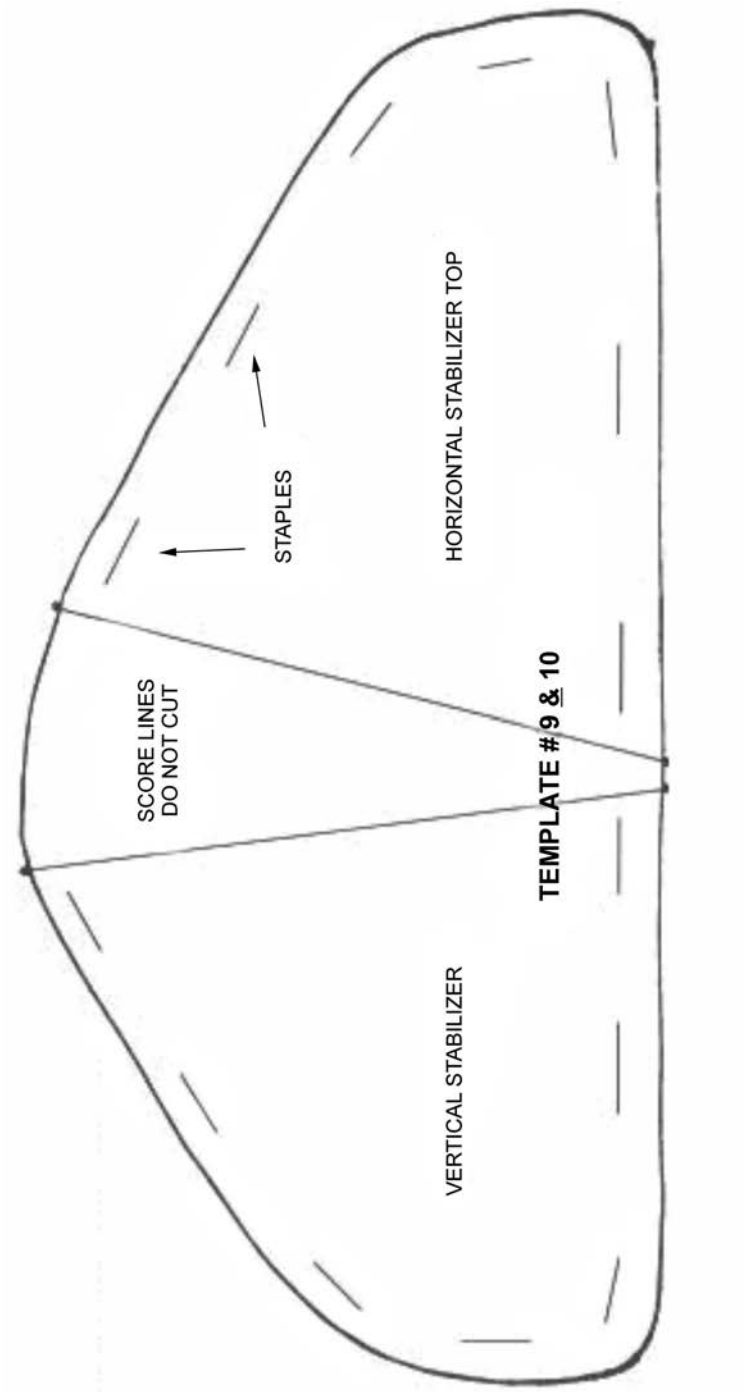
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Figure T-3 Horizontal Stabilizer Bottom Template

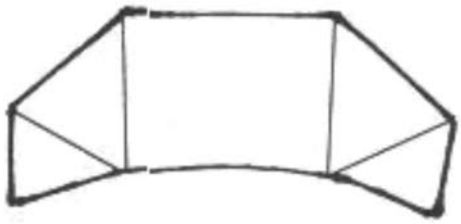
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Figure T-4 Left and Right Vertical Stabilizer Template

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Figure T-5 Windshield Template

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