

Bob's Card Models

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Fairchild C-26D 1:72

The Fairchild Swearingen Metroliner or the Fairchild Aerospace Metro is a 19-seat, pressurised, twin turboprop airliner first produced by Swearingen Aircraft and later by Fairchild at a plant in San Antonio, Texas. The C-26D is the Navy's designation for the C-26B (military version of the Fairchild Metro 23/SA227DC). The Metro III has its roots in the Swearingen Merlin, a turboprop eight-seat executive aircraft that first flew in 1965.

General characteristics

Crew: 2

Capacity: 22/14 passengers

Length: 42 ft 2 in (12.85 m)

Wingspan: 46 ft 3 in (14.01 m)

Height: 16.83 ft (5.13 m)

Max takeoff weight: 14,000 lb (6,400 kg)

Fuel: 625 gal (2,370 L)

Powerplant: 2× Allied Signal Garrett TPE-331-IIUG-601G turboprops, 1,100 hp (820 kW) each

Performance

Maximum speed: 248 knots (285 mph, 460 km/h)

Range: 2,025 nm (2,331 mi, 3,750 km)

Service ceiling 31,000 ft (9,500 m)

Power/mass: 0.08 hp/lb (130 W/kg)

Building Instructions

Print all sheets on 210 to 230 g card, except sheet Paper, Sheet 20.

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.

Green areas must be cut out, BUT only after gluing any folds. The Instructions will tell you when!

Fuselage

1. Cut out parts **1** to **5** and assemble. NOTE: Part **2** covers only the grey tabs of Part **3**. The remaining tabs are covered by the cockpit **4**.
2. Insert a mass of 8g or more, as far forward as possible in the fuselage.
3. Cut out the cockpit **4**, bend down all tabs, glue the front side windows to the tabs, and when dry, flip down the front window and glue in place to the 2 side tabs. Glue the assembly in place on the fuselage.
4. When assembled, cut out or slit all green areas or lines (position of wings, tailplane/fin).
5. Cut out and fold Fin part **7**. Cut out slit for tail-plane, fold and glue.
6. Cut out Tail-plane **6**, fold and glue.
7. Insert **6** through Fin and glue in place.
8. Cut numerous slits in the front of the nose cone **1** - each slit about 5mm long, glue liberally, and round with finger pressure. Repeat procedure with the Fuselage Tail **5**.
9. Press in very slightly, the sides of the fuselage, to give a slightly elliptical form.

Main Wings

The width of the lower surface is 98% that of the upper surface, to give the correct curvature of the wing.

10. Cut out Wings **8**, fold and glue.
11. Using the Wing template, fix the wing so that each wing is about 6° off the horizontal, glue the central portion along the top to keep this angle.
12. Glue the wing in the cut-out position marked under the fuselage.

Engines

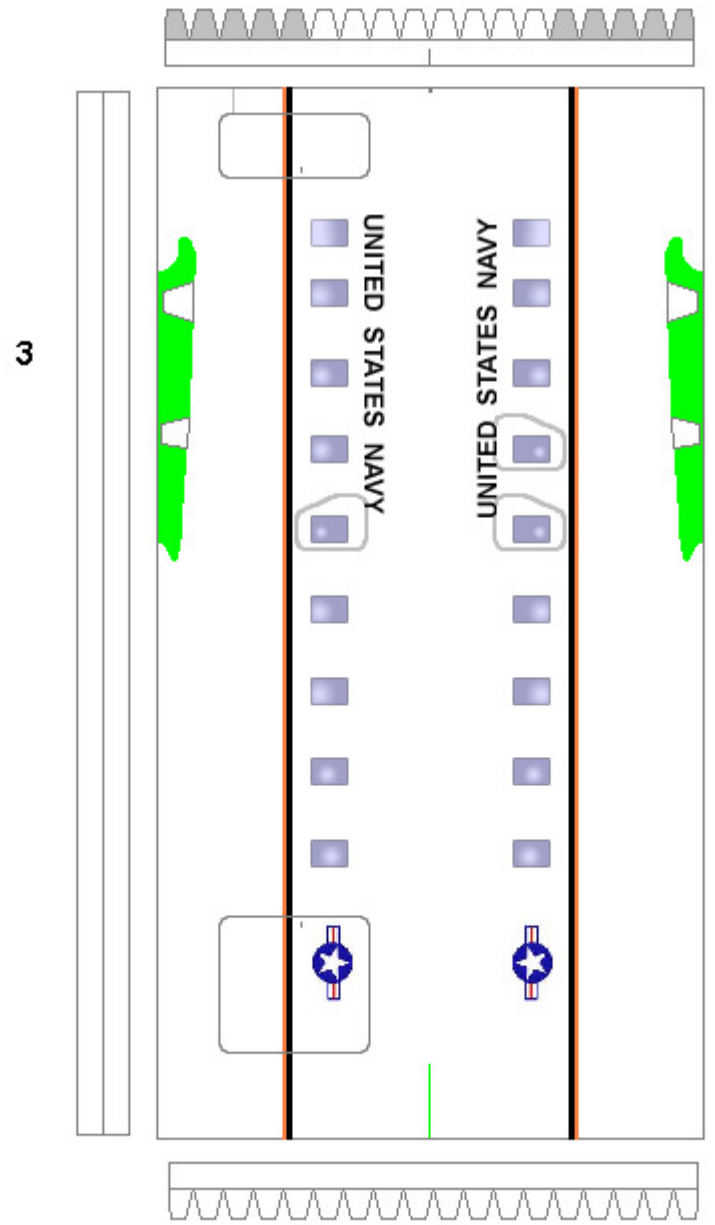
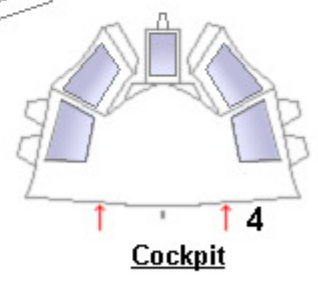
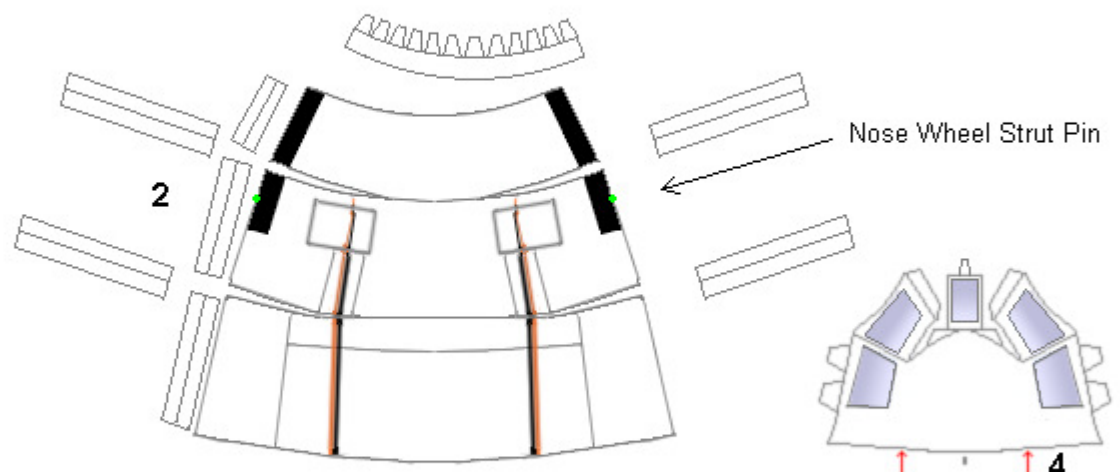
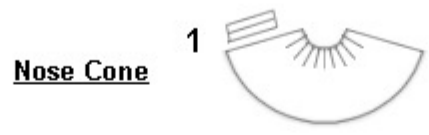
13. Cut out **12L** roll, glue on tab, glue; likewise **11L**, **10L** and **13L**. Join **10L** to **11L** then insert/glue **9L** about 1mm countersunk from the front of **10L**. Insert/glue **11bL** into the middle of **11L** (serves as a support for the prop axle).
14. Finish the assembly by joining on **12L** and **13L**. Glue assembly on wings in position marked.
15. Cut out green slits for fitting assembly on wing.
16. **Rear undercarriage:** Fold/roll/glue wheels **15**. Cut out one of parts **17**, fold, and insert a decapitated pin, glue and close. When dry, cut out exact strut. On each red point, glue a wheel. Insert the pin of the undercarriage in the hole provided under the engine, and glue well. When dry, glue on a main landing gear door **19L** on each side.
17. Repeat for the right-hand side undercarriage.
18. **Nose Wheel:** Similar to the rear undercarriage, using parts **14** and **16**.
19. On all undercarriages, glue the doors **19L**, **19R**, and **18** in place. For authenticity, one can round them a bit longitudinally, using a 5mm diameter rod.

Propellers

20. Add the propellers **20** with their cones **21**. For shafts, again use pins.

---oooOooo---

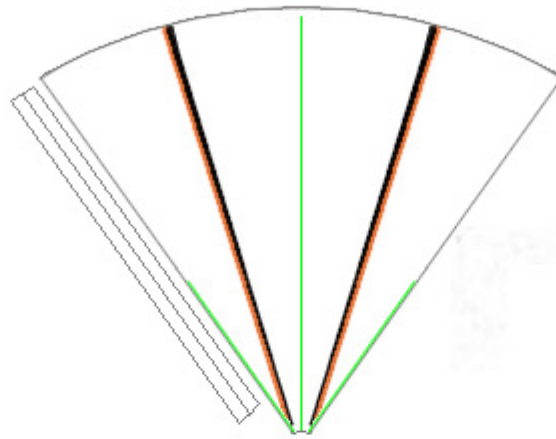
**Nose Landing
Gear Doors** 81



Sheet 1

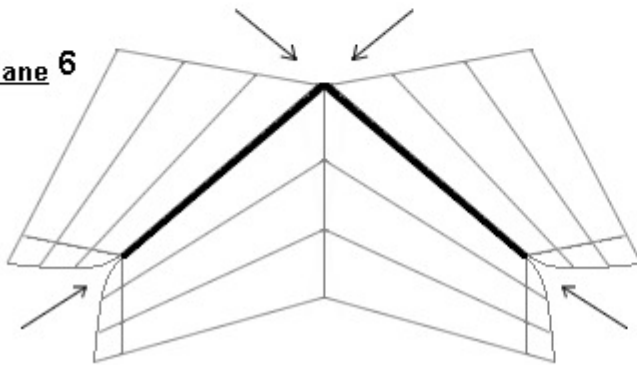
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Fuselage Tail 5

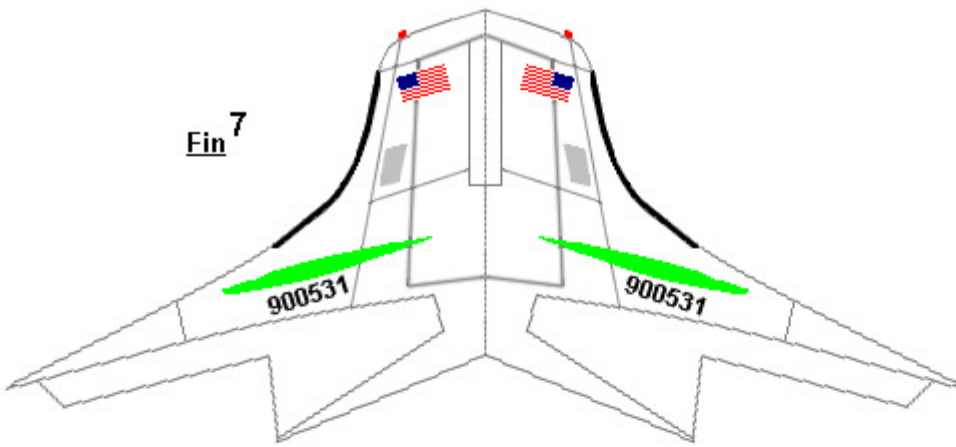


Fold

Tail-plane 6

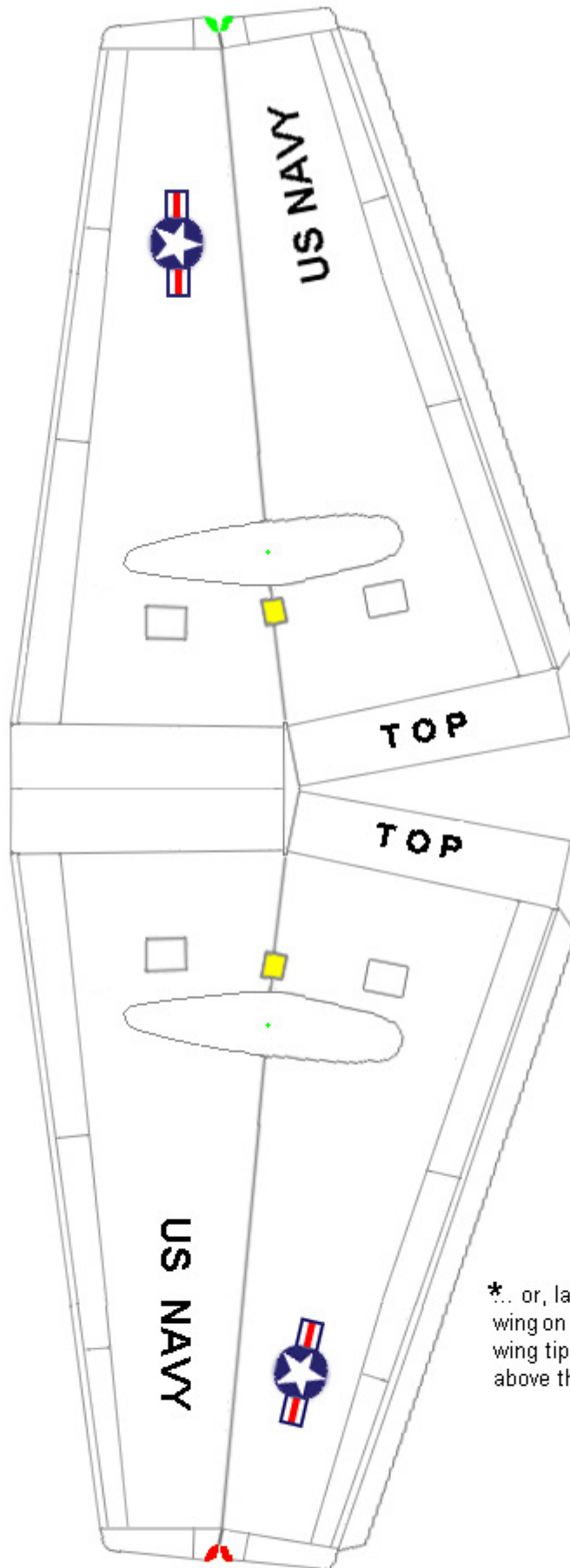


Fin 7



Sheet 2

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Template for adjusting wing dihedral angle
(6° left and right)

*.. or, lay the assembled wing on a flat surface, both wing tips should be 5mm above the surface.

Sheet 3

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Engines

LEFT

RIGHT

9L



← Make 2x thick →



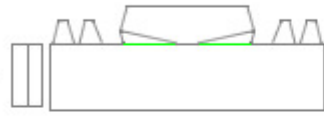
9R

10L



10R

11L



11R

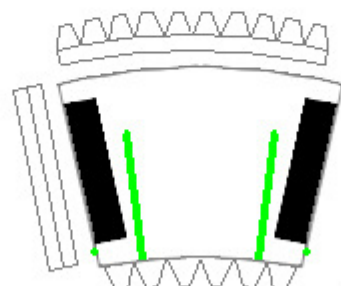
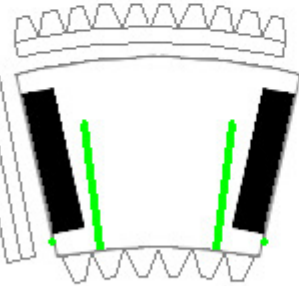
11bL



11bR



12L



12R

19L

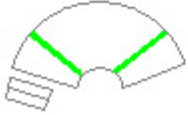


19R

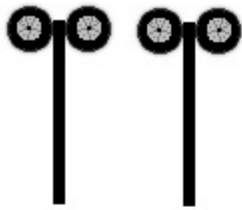
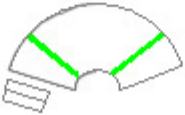
Main Landing Gear Doors

Main Landing Gear Doors

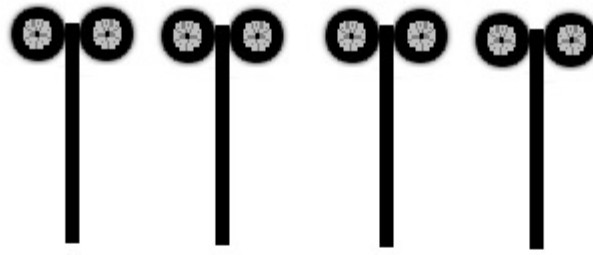
13L



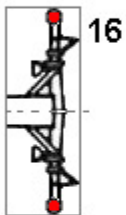
13R



Front Wheels 14

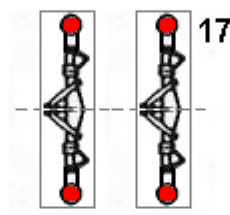


Rear Wheels 15



16

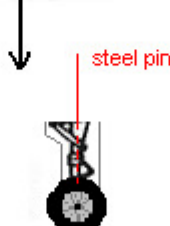
Cut out, fold, insert pin, glue, cut out final form



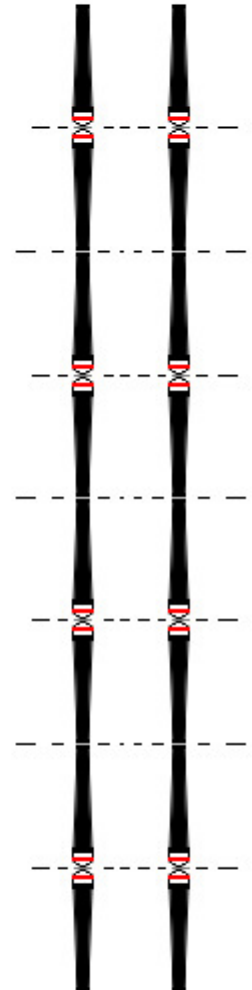
17



steel pin



steel pin



Propellers 20

Cut out, fold and glue



Propeller Cones 21

Use a pin as shaft

Sheet 4

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