WACO YMF-5 Model Guide

WACO YMF-5 (documented in the maintenance manual as the YMF WACO F5 series) is a single-engine, three-place open biplane. Two passengers sit in the front cockpit and the pilot sits in the rear. It has a conventional tailwheel layout, a welded steel-tube fuselage, spruce wings, fabric covering and a Jacobs seven-cylinder radial engine.

KEY TAKEAWAYS

- The WACO YMF-5 comes as F5A, F5B and F5C models with gross weights of 2650, 2770 and 2950 lb.
- Jacobs R755B2 engine rated 275 hp at 2200 rpm; the F5C-8 option uses the R755A2 at 300 hp.
- Standard fuel is 48 US gal, with optional 12 gal upper-wing tanks. Minimum fuel grade is 80 octane.
- The supplied documents give no cruise, climb or takeoff figures. Get those from the seller's flight manual.

VARIANTS AND ENGINES

F5A (serials F5001-F5009, 1986-1987): 2650 lb gross, Jacobs R755B2, limited by propeller or placard to 245 hp and 1950 rpm. F5B (F5010-F5036): 2770 lb. F5C (F5C040 and up, 1991 on): 2950 lb, carburetor or fuel injection. F5C-8: optional Jacobs R755A2, 300 hp at 2200 rpm, fitted new or as a retrofit.

FUEL, OIL AND BRAKES

Fuel is 48 US gal in two 24 gal center-section tanks above the front cockpit. One or two optional 12 gal tanks can go in the upper wings. The dry-sump oil tank holds 4 gal with the standard fuel system and 5 gal with auxiliary fuel. The toe brakes are hydraulic, with a reservoir of about one pint of Mil-H-5606 fluid.

CONSTRUCTION AND RECORDS

The fuselage and tail are TIG welded 4130 steel tube. The wings are Sitka spruce with 4130 fittings, and the covering is Ceconite 102 Dacron fabric. The maintenance manual is the Instructions for Continued Airworthiness. Service Letters are not mandatory but strongly advised, so ask for compliance records. The type certificate is ATC542 and the STC is SA1000GL.

SPECIFICATIONS

Wing Span Upper Ft	30
Fuel Capacity Gal	48
Optional Wing Tank Gal	12
Oil Tank Capacity Gal	5
Engine Power F5c Hp	275
Engine Power F5c 8 Hp	300

WEIGHT & BALANCE

Max Gross Weight F5a Lbs	2650
Max Gross Weight F5b Lbs	2770
Max Gross Weight F5c Lbs	2950

SAFETY NOTES

- The F5A is limited to 245 hp and 1950 rpm. A propeller under 96 in. diameter and 72 in. pitch can exceed that limit, and the operator is responsible.
- Forward visibility is limited. The upper wing tips extend beyond the lower wings and cannot be seen from the pilot's seat, so use an observer when taxiing.
- Do not set the parking brake when the brakes are overheated or in cold, damp weather where moisture may freeze them. Trapped pressure can stop the brake releasing.

AI-aggregated guide for the WACO YMF-5 · sources: YMF WACO F5 SERIES MAINTENANCE MANUAL (#102108) · generated 2026-10-20 · Reference only, not for flight. Check the original documents before relying on this guide.