



2013 WACO YMF-5D Super

Aircraft and Accessories

The new WACO YMF-5D offers a seductive combination of performance, style and exclusivity.

Even with this exalted pedigree, the new WACO YMF-5D represents a new pinnacle for the marquee: it has been sharpened, refined and rethought in every detail. The result is an aircraft that offers thrilling levels of performance together with luxurious accommodation for three people. So if you are looking for the enchantment of open-cockpit flying, there's no better place to experience it than in the cockpit of a new WACO D model.

The WACO YMF biplane has and always will represent the essence of true aviation pleasure.

WACO Aircraft Corporation
W. K. Kellogg Airport (KBTL)
15955 South Airport Road
Battle Creek, MI 49015 U.S.A.
Phone (269) 565-1000 / Fax (269) 565-1100
FlyWaco@WacoClassic.com
www.WacoClassic.Com



2013 WACO YMF-5D Biplane

AIRCRAFT SPECIFICATIONS

3-place Open Cockpit Land or Sea Biplane

FEATURES

Purchase Includes Factory Pilot Training Program
Deluxe Leather Interior with Heat Front and Rear
New Aircraft, New Tooling, Modern Safety Features
Day Night IFR and Aerobatic Approved
Approved for Commercial Ride Operations
28 volt Electrical System with Modern Avionics Installations

POWERPLANT

Engine

Jacobs R755A2, A2M Engine with New Production Aluminum Cases
Standard - 300 HP @ 2200 RPM, 1400 hr. TBO (1400 hr TBO now standard)

Propellers

Fixed-Pitch (Standard), MT wood / composite, 92 in. dia
Constant Speed (Optional), Hamilton-Standard 2B20-15, 93 in. dia,

DIMENSIONS

Wing Span, upper	30 ft 0 in (9.14 m)
Wing Span, lower	26 ft 10 in (8.18 m)
Length, overall	23 ft 10 in (7.26 m)
Height, overall	8 ft 6 in (2.59 m)

WEIGHTS & LOADINGS

Basic Empty Weight	1985 lb (900 kg) 2100 lb typically equipped
Baggage Capacity	100 lb (45 kg)
Gross Weight	2950 lb (1338 kg)
Useful Load	850 lb typical

PERFORMANCE

Never-exceed speed	214 mph (186 kt)
Cruise speed	122 mph (105 kt)
Stall Speed, power off	59 mph (51 kt)
Fuel	Standard - 48 US gal (182 litres) Optional Long Range Tanks - 72 US gal (273 litres)
Fuel Consumption	15 US gal/hr (typical)
G limits	+5.2 / -2.1 @ 2950 lb.



2013 WACO YMF-5D Super, Standard Equipment price: \$426,250

Standard Installed Equipment

The standard aircraft is very well equipped and approved for day & night IFR & VFR flight. It includes a full leather interior, 3 color paint scheme and accessory package.

Airframe

Rugged 4130 Steel Fuselage Frame
Epoxy Coating Corrosion Proofing
Internal Steel Tube Corrosion Proofing
Forward Fuselage Aluminum Sidewalls (Left & Right Sides)
Front Cockpit Door
Baggage Compartment – Lockable
Wood Fuselage Stringers
Tail Fins - Vertical Stabilizer, Horizontal Stabilizer
Balanced Rudder & Elevator Control Surfaces
Aluminum Ailerons (4)
Steerable Tail Wheel
Shock Spring Landing Gear
Cleveland Wheels & Brakes by Parker Hannifin
Tires, Tube Type (Main 7.50x10, Tail 10x3.50)
Wheel Pants & Spats
Wings - Wood Spar/Rib Frame Structure
4130 Steel Interplane and Cabane Wing Struts
Flying & Landing Wires - Stainless Steel
Hand Formed Metal Fairings
One-Piece Rear Windshield Frame
Front Cockpit Windshield – Removable, storage bag.
Tie Down Rings (2), Tow Lugs (2), Jack Points (2)
Steps - Cabin Entrance and Refueling (improved for 2012)
Adjustable Pilot Seat
Front 2-Place Bench Seat

Finish & Paint

Dacron Fabric Covering, Rib Stitched and Taped
PPG Delta System Polyurethane Paint
3-Color WACO Paint Scheme
Touch up Kit

Controls

Dual Flight Control System
Control Stick & Rudder Pedals - Rear & Front
Seat Belts with Shoulder Harness (Hooker brand)
Second Lap Belt – Rear
Fuel Valves - Left & Right
NEW Elevator Trim System for 2012
Throttle/Mixture /Carb Heat Lever Quadrant – Rear
Throttle Lever – Front
Hydraulic Toe-Operated Brakes – Rear and Front

Additional Equipment

Deluxe Leather Interior: Includes: Leather Seats, Single or Two-tone Leather Sidewalls, Leather Trim, and Premium Carpeting. Customer has choice of all colors. Over 5 hand selected Hides go into each WACO interior
Leather Map Case - Front
Leather Map Case – Rear
Pilots Operating and Service Manuals
Front & Rear Heater
Dual Cockpit cover, water resistant canvas, black.

Power Plant & Accessories

Jacobs R-755 A2, 7-Cylinder Radial Engine
300 HP @ 2200 RPM 1400 Hour TBO
Oil Filtration with 50 hour oil change interval
Propeller - MT Wood, Fixed Pitch, 2-blade
All Metal Bumped Cowling
Oil Tank - 5 US Gal
Electric Starter
Oil Cooler
Induction Air Filter
Fuel Strainer with Quick Drain
Dual Magneto Ignition System
Key Operated Ignition Switch
Exhaust System, Stainless Steel
Carburetor Heat
48 US Gal Fuel Tanks - Upper Wing
Fuel Quantity Indicators
Inner Cowl Venting

Electrical

24 Volt Electric System
50 Amp Alternator
Batteries, Sealed G25S, 12 Volt Lead Acid (2)
Circuit Breakers - Side Panel Mounted
LED Navigation Lights
LED Strobe Lights & LED Beacon
Illuminated Placards (new for 2012)
LED Landing & Taxi Lights - Left Side
Pilot Utility Light - Rear
Cockpit Lighting Controls with Dimmers
Heated Pitot Tube
Ground Start Plug

IFR Instruments & Avionics - Rear Cockpit

JPI EDM 930 Deluxe Engine Analyzer - Color Display
Garmin GMA 340 Audio Panel or PS Eng PMA8000BT
Garmin GTN-650 Touch Screen WAAS GPS
Garmin GTX-32 Remote Transponder
Attitude Indicator (Electric)
Heading Indicator (Electric)
SSD 120-30A Remote Encoder
Altimeter, Sensitive
Turn & Bank Indicator
Vertical Speed Indicator
ELT 406 MHz
Garmin GI-106a VOR/LOC/GS/GPS Indicator
Compass, internally lighted.



Optional Equipment and Upgrades

	Price	Note
Constant Speed Propeller System Includes: Hamilton Standard 2B20 Propeller, Propeller Governor, 4-Lever Throttle Quadrant, Propeller is polished to mirror finish, enlarged cowling	\$16,250	3
Polished Spinner – for constant speed propeller systems only.	\$2,922	1
Extended Range fuel tanks - Left 12.5 US Gallons	\$4,815	1
Extended Range fuel tanks - Right 12.5 US Gallons	\$4,815	1
LED Landing and Taxi light, - Right Side (left is standard)	\$1,750	1
Mirrors (Left or Right) / each	\$190	1
Tail Wheel Fairing	\$675	1
Trim position indicator	\$690	1
Water bottle / cup holder (each)	\$65	1
Front Cockpit Vinyl Cover	\$685	1
Four Color Paint scheme (3 Standard)	\$2700	3
Polished Cowling Bumps	\$1800	1
Banner Kit (includes cockpit release, hook, and two mirror)	\$1,450	1

Pilot Cockpit Avionics Options and Upgrades

Avionics packages and options below are in addition to standard Garmin IFR avionics listed on page one of this price list.

	Price	Note
IFR Plus Package – Complies with NextGen ADS-B out requirements Standard instruments plus a large screen Garmin GTN-750 Touch screen WAAS GPS and upgrade to a Remote GMA-35 Audio Panel and upgrade to Remote GTX-33 mode S Transponder that provides ADS-B out with extended squitter.	\$29,875	1
		
IFR Advanced Package - Complies with NextGen ADS-B out requirements Standard instruments plus a Garmin G500 Advanced Multi-Function Display, Garmin GTN-750 Touch screen WAAS GPS unit, Mid-Continent "SAM" Standby Attitude Module (2" Attitude, Altitude and Airspeed), Remote GMA-35 Audio Panel and Remote GTX-33 mode S Transponder that provides ADS-B out with extended squitter.	\$58,750	1
		
Traffic Package - Garmin GTS 800 Traffic system, Upgraded electric DG with Heading output, 12 mile range, audio call outs and display on GTN Nav / Com and G500.	\$14,950	1
ADS-B – Complies with NextGen ADS-B In & Out requirements - Garmin GDL-88 ADS-B data link transceiver displays ADS-B traffic and Weather data on G500 and GTN nav/com	\$6,250	1,5
Autopilot - S-Tec 55 with AutoTrim and GPSS (requires appropriate heading system or IFR Advanced package)	\$31,950	1,2,5
Sandel SN-3500 (digital HSI) with SG102 AHRS. Full Color HSI with remote heading system for Autopilot (upgrade cost).	\$18,950	1,2,3
Garmin 796 GPS with weather data-link, Air Gizmos Panel Dock, remote antenna in wing.	\$3,895	1
Weather Data-link – Garmin GDL-69 USA and CA only (For GTN 650/750 & G500 systems)	\$5,850	1
Weather Data-link & XM Radio – Garmin GDL-69A, USA and CA only (For GTN 650/750, G500)	\$7,670	1



	Price	Note
GTX-33 Mode S Transponder upgrade – adds ADS-B Out capability to base avionics specification. (GTX-32 Included w / Base Aircraft)	\$3,600	3
Millibar Altimeter (non-USA only) - substitution	\$0	3
Southern Hemisphere Compass – substitution	\$0	3
Garmin SL 40 Com radio	\$2,895	1
L-3 Trilogy Backup System with battery backup (Upgrade price, replaces Midcontinent SAM System in G500 installations)	\$8,950	1
12 Volt plug in Cockpit – automotive style for portable GPS units or Phone Chargers, 1 Amp maximum	\$265	1
“G” Meter, Analog	\$695	1
Wood Grain Instrument panel overlay, center area, Consult factory for wood types / colors.	\$965	1

Front Passenger Cockpit Avionics Options and Upgrades

Garmin Aera 500 GPS, Panel Mounted, installed with remote antenna	\$1175	1
Garmin SL 40 Com radio	\$2,795	1
Engine Display, Remote JPI-930 Engine Analyzer Display	\$5,800	1
Airspeed Indicator	\$685	1
Altimeter 3"	\$1,199	1
Heading Indicator - Electric	\$4,990	1
Attitude Indicator - Electric	\$4,950	3
Turn & Bank 3"	\$911	1
Tachometer, Electronic 3"	\$620	1
Vertical Speed Indicator 3"	\$593	1
Wood Grain Instrument panel overlay, center area, Consult factory for wood types / colors.	\$750	1

Non-Flying Accessories and Options

Trickle charger for batteries, installed harness and temperature sensor.	\$599	1
Tow Bar / Push Bar – Painted to match aircraft with order	\$1,525	6
Aircraft disassembly and crating charge for international shipment in shipping container	\$3,500	7
2 nd Year Extended Warranty (includes first factory annual inspection at Battle Creek)	\$5,995	

WACO Classic Features **GARMIN** Equipment as Standard

All prices are in US Dollars, Fly-Away-Factory, Battle Creek, Michigan, USA

Any applicable state, federal, local taxes or VAT are not included.

All prices are subject to change without notice.

Note 1: Installed price when ordered with new Aircraft only.

Note 2: Price is typical and may change slightly depending on avionics installed.

Note 3: Upgrade from standard cost

Note 4: When installed by Engine Manufacturer at time of aircraft purchase.

Note 5: Pending FAA Approval

Note 6: Can be painted to match aircraft for additional charge of \$150 - Safety Yellow is Standard

Note 7: Freight is additional charge and will be billed separately



Change History by Serial Number

Originally produced in 1934/1935 by the WACO Aircraft Company of Troy, Ohio, the WACO YMF was unquestionably regarded as the finest open cockpit sport aircraft. When production was re-established in 1986 with the **WACO YMF Classic**, many updated features were incorporated. Based on constructive input from valued customers all over the world, the **WACO YMF Super** was introduced in 1992. Today's production YMF-5D Super aircraft offers a complete array of updated features making it the finest sport biplane anywhere.

Model: WACO YMF Classic (1985 – 1991)

Serial Numbers: F5001 through F5039 (No longer in production)

Improvements Over the Original 1935 YMF

- 4130 Steel Tubing in-place of Mild Steel
- Internal Corrosion Proofing of Steel Tubing
- Heater Front & Rear Available
- Hydraulic Toe Brakes
- Steerable Tail Wheel (Raised 3 in.)
- Instrument Panel Accepting of IFR Installations
- Deluxe Front & Back Interiors Available
- 24 Volt Electric System with Starter
- Shoulder Harnesses for Pilot & Passengers
- Stainless Steel Firewall
- Stainless Steel Exhaust System
- Fire Resistant Fuel Lines Forward of Firewall
- Steel Tabs Welded to Fuselage Frame to Mount Bulkheads

SIGNIFICANT CHANGES BY SERIAL NUMBER FOR THE WACO YMF CLASSIC

F5010 and Up:

- Engine Horsepower Raised from 245 HP to 275 HP
- Rear Cockpit Seat Moved Aft 3 in.
- Gross Weight Increase From 2650 to 2770 lb.

F5015 and Up:

- Raised Front Seat
- Raised Front Windshield
- Insulated the Firewall
- Increased Ventilation to Front Cockpit

F5021 and Up:

- Lowered the Main Gear 3 in.

F5026 and Up:

- Moved the Rudder Pedals Forward 2 in.



WACO YMF Super (1992 – 2009)

Serial Numbers: F5C040 to F5C120

SIGNIFICANT CHANGES OF THE WACO YMF Super OVER THE WACO YMF Classic

- Increased Gross Weight to 2950 lb.
- Increased Fuselage Length 6 in.
- Increased Cockpit Dimensions
 - Front Cockpit Width +2.5 in. Front Cockpit Length +2.0 in.
 - Rear Cockpit Width +1.0 in. Rear Cockpit Length +4.0 in.
- Increased Passenger Door Size
 - Door Width +4.0 in. Door Height +2.0 in. Lower
- Increased Leg Room in Rear Cockpit 4 to 9 in. (Depending on Serial Number)
- Balanced Rudder and Elevator for Reduced Forces and Greater Authority
- Enlarged Front and Rear Windshields
- Improved Intercom System (1993 models and up)
- Improved Propeller for Increased Climb and Takeoff Performance
- Replaced Fabric with Aluminum Skin on Left Side of Forward Fuselage

WACO YMF Super IMPROVEMENTS F5C068 and Up

- Replaced Fabric with Aluminum Skin on Right Side of Forward Fuselage
- Removable Engine Mount

WACO YMF Super IMPROVEMENTS F5C092 and Up

- External hoses for extended range fuel tank upgraded to braided metal
- Wheel pant access covers added for improved inflation valve access
- New, hand carved wood stick grip
- New, fitted rear cockpit cover available
- WACO scalloped paint schemes available

WACO YMF-5D Super IMPROVEMENTS F5D121 and Up (2010 -)

- More Horsepower – new optional Jacobs R755-A2 300 HP with a 1400 hour TBO
- Garmin GTN-650 Touchscreen GPS and Remote Transponder
- JPI EDM 930-7 Engine instrumentation as standard.
- New Oil cooler design offering improved cooling
- New Oil Filtration system allowing for 50 hour oil change interval (up from 25)
- New MT Taper Tip Propeller (Hamilton-Standard 2B20 constant speed optional)
- Deluxe leather interior now standard
- Improved seals and other enhancements lower front cockpit temperatures in summer and improve heat system performance in winter.
- Front cockpit brakes now standard
- New lightweight wheel pants and wheel pant fairings
- New circuit breaker panel location
- Redesigned one piece instrument panel with vibration isolators
- Standard LED landing and identification lights, new beacon
- Simplified avionics packages featuring all Garmin Avionics
- Relocated ground start plug and redesigned electrical system saves 8 lbs.
- Redesigned landing gear pistons and seals
- New Trim system design (linkage system replaces older cable system)
- New fully adjustable rudder pedals (accommodates larger range of pilot sizes)
- Numerous serviceability enhancements

