



2019 WACO YMF-5D Super

IFR Avionics

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.

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

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2019 WACO YMF-5D Biplane

AIRCRAFT SPECIFICATIONS

3-place Open Cockpit Land Biplane, Day & Night, VFR & IFR

FEATURES

Advanced Garmin Touchscreen GPS Units with ADS-B weather and Traffic
Deluxe Leather Interior with Heat Front and Rear
New Aircraft, New Tooling, Modern Safety Features
Aerobatic Approved
Approved for Commercial Ride Operations

POWERPLANT

Engine

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

Propellers

Fixed-Pitch (Standard), MT wood / composite, 92 in. dia
Constant Speed (Optional), MT Composite 93"

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. standard equipped* see note 8
Baggage Capacity	100 lb (45 kg)
Gross Weight	2950 lb (1338 kg)
Useful Load	850 lb *see note 8

PERFORMANCE

Never-exceed speed	214 mph (186 kts)
Cruise speed	122 mph (105 kts) *see note 9
Stall Speed, power off	59 mph (51 kts)
Fuel	Standard - 48 US gal (182 liters) Optional Long-Range Tanks - 72 US gal (273 liters)
Fuel Consumption	14 US gal/hr (typical cruise)
G limits	+5.2 / -2.1 @ 2950 lb.



2019 WACO YMF-5D Super, Standard Equipment price: \$539,600

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 Garmin IFR avionics.

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
Wheels & Brakes by Parker Hannifin or Grove
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
Adjustable Pilot Seat
Front 2-Place Bench Seat

Finish & Paint

Dacron Fabric Covering, Rib Stitched and Taped
PPG Polyurethane Paint
3-Color standard 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
Elevator Trim System and Trim Position Indicator
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 Concord XC25, 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

IFR Instruments & Avionics - Rear Cockpit

JPI EDM 930 Deluxe Engine Analyzer - Color Display
with Engine Performance Logging and USB interface
Garmin GTN-635 Touch Screen WAAS GPS/Com
Garmin GTN-750 large Touch Screen WAAS GPS/Nav/Com
Garmin GMA-35R Remote Audio Panel with 3D Audio
Garmin GTX-345R Remote ADS-B IN/Out Transponder
WAAS GPS antennas (2)
Garmin G5 Attitude (Includes AS, Alt, VSI, Slip, battery backup)
Garmin G5 Heading Indicator (battery backup)
406 MHz ELT
Altimeter, Sensitive
Airspeed Indicator
Compass, internally lighted.

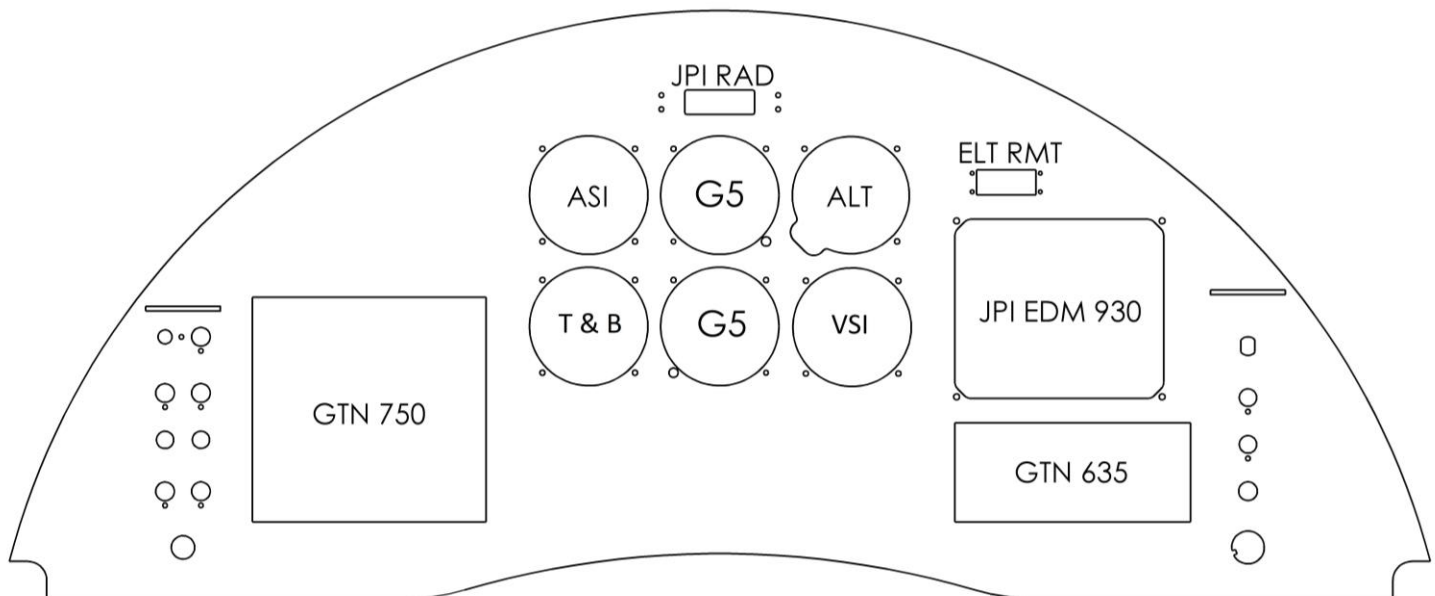


Optional Equipment and Upgrades

	Price	Note
Constant Speed Propeller System Includes: MT Constant Speed Propeller, Governor, 4-Lever Throttle Quadrant and Propeller Spinner (upgrade cost, new aircraft only)	\$17,750	3
Extended Range fuel tanks - Left 12.5 US Gallons	\$4,985	1,8
Extended Range fuel tanks - Right 12.5 US Gallons	\$4,985	1,8
LED Landing and Taxi light, - Right Side (left is standard)	\$1,850	1,8
Mirrors (Left or Right) / each	\$190	1,8
Tail Wheel Fairing	\$675	1,8
Water bottle / cup holder (each)	\$95	1,8
Front Cockpit Vinyl Cover	\$785	1,8
Four Color Paint scheme (3 Standard) or Custom design	\$4600	3,8
Polished Cowling Bumps	\$3200	1
Banner Kit (includes cockpit release, hook, and two mirror)	\$3,850	1,8
Pilot cockpit entry assist bar	\$1240	1,8

Pilot Cockpit Avionics Options and Upgrades

Standard Garmin Touchscreen Panel with Remote Transponder and Remote Audio



Avionics packages and options listed on pages 5 & 6 are in addition to standard (above) advanced IFR avionics that are included with base aircraft, they include:

- Garmin GTN-750 Large Touchscreen WAAS Nav/Com/GPS units
- Garmin GTN-635 Touchscreen WAAS Com/GPS
- Garmin GMA-35 Remote Audio Panel with 3D audio
- Garmin GTX-345 ADS-B (In & Out) Remote Transponder
- Garmin G5 Attitude Indicator
- Garmin G5 Heading Indicator / HSI
- Analog Airspeed, Altimeter, VSI and T & B
- The standard IFR Avionics comply with all NextGen ADS-B requirements



Pilot Cockpit Avionics Options and Upgrades

IFR Plus – Touchscreen Garmin

Standard avionics plus a Garmin G 500 TXi Advanced Touchscreen 10.6" Multi-Function Display and a Midcontinent SAM Backup Attitude Indicator with battery backup. Garmin Digital AHRS (Synthetic Vision optional) and intergraded Air Data Computer.



\$27,400 1,8

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 1,8

SVT - Synthetic Vision Technology for G500 TXi (upgrade)

\$3495

Autopilot - S-Tec 55 with Auto Trim and GPSS (requires appropriate heading system or IFR Plus package)

\$36,600 1,2,8

Altitude Pre-select for G500TXi (if S-Tec 55 autopilot installed)

\$4990

Millibar Altimeter (non-USA only) - substitution

\$0 3

Southern Hemisphere Compass – substitution

\$0 3

USB Power Port (Dual Plug)

\$565 1,8

12 Volt plug in Cockpit – automotive style for portable GPS units or Phone Chargers, 1 Amp max

\$265 1,8

"G" Meter, Analog

\$752 1,8

Wood Grain Instrument panel overlay, center area, Consult factory for wood types / colors.

\$1365 1,8

Ground Start plug, 28V (installed in baggage compartment)

\$965 1,8

Front Passenger Cockpit Avionics Options and Upgrades

Garmin Aera 660 GPS, Panel Mounted, installed with remote antenna

\$1375 1,8

Garmin GTR-225 com radio

\$3,265 1,8

Engine Display, Remote JPI-930 Engine Analyzer Display

\$5,800 1,8

USB Power Port (Dual Plug)

\$565 1,8

Airspeed and Altimeter (two 3" instruments)

\$2,970 1,8

Heading Indicator - Electric

\$6,850 1,8

Attitude Indicator – Garmin G5

\$3,950 3,8

Turn & Bank 3"

\$1627 1,8



Tachometer, Electronic 3"

\$920 1,8

Vertical Speed Indicator 3"

\$893 1,8

Wood Grain Instrument panel overlay, center area, Consult factory for wood types / colors.

\$1235 1,8

Non-Flying Accessories and Options

Trickle charger for batteries, installed harness and quick connect.

\$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	\$4,500	7
EASA documentation and regulatory fee (For aircraft exported to European Union Countries)	\$8,500	
2nd Year Extended Warranty (includes first factory annual inspection at Battle Creek)	\$7,995	

WACO Features Avionics 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: 8: Optional equipment can greatly add to empty weight and affect useful load. Standard weight is approximate and based on a basic VFR airplane (non-ADS-B) with standard fuel tanks, white in color with no options.

Note 9: Cruise speed is a typical weight, standard fuel tank airplane with a MT or CS prop installed.