

Mooney M20S Eagle Model Guide

The Mooney M20S Eagle is a four-seat single-engine piston aircraft built from 1999 to 2008. It was Mooney's entry-level model when introduced. It uses the long fuselage and a 244-hp Continental IO-550-G. Mooney quotes 175 kt true airspeed at max gross weight, and an AOPA flight test showed 181 kt.

KEY TAKEAWAYS

- Four seats, 244-hp Continental IO-550-G, two-blade McCauley prop, 3,200 lb max gross weight.
- 75 gal usable fuel. An AOPA test flight showed 181 kt true at 7,500 ft on about 13.5 gph at 75% power.
- Check logs for Service Bulletins M20-294 (throttle arm nut) and M20-310A (throttle bracket, serials 30-0063 to 30-0065).
- Engine setup values were revised by Service Instruction M20-107. Confirm the engine was set up to them.

AIRFRAME AND ENGINE

The Eagle has a welded steel-tube cabin cage and a wing with a continuous tip-to-tip carry-through spar. It has a fuselage 20 inches longer than the Allegro it replaced. It also has dual batteries as standard. The 244-hp engine turns at 2,400 rpm in cruise, and AOPA expected it to reach its 2,000-hour TBO.

ORIGINAL AVIONICS (1999)

Standard equipment was a Bendix/King navcom with glideslope, a KLN89B IFR GPS, a transponder, a PS Engineering PMA 7000 audio panel, and an S-Tec System Thirty two-axis autopilot. Moritz engine and power gauges were new for 1999. Check what is actually installed, because aircraft may have been upgraded.

SERVICE HISTORY TO VERIFY

SB M20-294 covers all M20S. It requires replacing the throttle body arm retaining nut (new MS21042-5, torque 100-120 in-lb) within the next 10 flight hours. SB M20-310A covers M20S serials 30-0063 to 30-0065 and checks the throttle control bracket mounting. SI M20-107 changed the IO-550-G idle and full-power fuel-flow setup.

SPECIFICATIONS

Max Gross Weight Lbs	3200
Usable Fuel Gal	75
Engine Power Hp	244

PERFORMANCE

Cruise Speed Kts	175
Test Flight Cruise Speed Kts	181
Test Flight Altitude Ft	7500
Fuel Burn Gph	13.5

SAFETY NOTES

- SB M20-294: a loose throttle body control arm was reported in the field. Confirm the nut replacement and the log entry.
- SB M20-310A: an incorrectly mounted throttle control bracket was reported. Verify compliance for serials 30-0063 to 30-0065.
- SI M20-107 full-power fuel flow for the Eagle is 129 to 131 pph. Ask whether the engine was set up to this.