Mooney M20U Ovation Ultra Model Guide

The Mooney M20U Ovation Ultra is a four-seat, single-engine piston aircraft built from 2009 to 2020. The supplied documents give no speed, range or weight figures. This guide covers what to inspect and a known service item, using Mooney's 50-hour/100-hour/annual inspection guide and Service Instruction M20-127.

KEY TAKEAWAYS

- Four seats, piston engine, built 2009 to 2020. Mooney's inspection guide says the M20U has no cowl flaps.
- Service Instruction M20-127 (January 2018) trims the front seat-back foam on serial numbers 32-0001 and 32-0002.
- Mooney's inspection form covers 50-hour, 100-hour and annual inspections. Use it with the model's Service & Maintenance Manual.
- No performance or weight data was supplied. Confirm those figures in the POH.

INSPECTION ITEMS LISTED FOR THE M20U

The M20U uses a fuel-injected engine. Inspect the injection system, screens and nozzles, and check the alternate air door. Check unmetered fuel pressure, and flight-check the gear-up warning horn. Garmin G1000 gets a visual inspection. GFC700 autopilot servos, cables and wiring are checked if fitted.

OXYGEN AND TIME-LIMITED ITEMS

For AVOX oxygen systems, do a bottle hydrostatic test every 3 years and a regulator overhaul every 6 years. Composite bottles expire at 15 years. Replace cannulas and clear masks every 200 hours. Also check ELT, altimeter and transponder due dates, and magneto overhaul intervals.

SEAT CUSHION SERVICE INSTRUCTION

Service Instruction M20-127 (January 23, 2018) applies to M20U serial numbers 32-0001 and 32-0002. It trims the front seat-back cushions so the seat height handle clears the bottom cushion. Compliance is as required. Mooney warranted 6 hours of labor for aircraft under factory warranty.

SAFETY NOTES

- Let CHT fall to 300 F before engine shutdown, per the inspection form's caution.
- Check the cabin heating and ventilation system for carbon monoxide, and check for fuel odors in the cabin.
- Do not attempt gear retraction using the emergency gear extension system.

AI-aggregated guide for the Mooney M20U Ovation Ultra · sources: 50-Hour/100-Hour/Annual Maintenance Inspection Guide (#7277) · SERVICE INSTRUCTION M20-127 (#8269) · generated 2026-10-20 ·
Reference only, not for flight. Check the original documents before relying on this guide.