Moravan Z-142 Model Guide

The Moravan Z-142 is a single-engine piston aircraft. The inputs give no figures for seats, weights, speeds or range, so this guide covers only what the supplied manufacturer service bulletins say. Those bulletins cover wing fatigue life, acrobatic-category limits, landing gear, wheels and brakes, and the pitot-static system. Check the aircraft's records against them before you buy.

KEY TAKEAWAYS

- Z142 aircraft with unstrengthened wings cannot be operated in ACROBATIC category (Bulletin Z142/54a, March 8, 2007).
- After 190 hours in acrobatic/utility use, wing root work is needed and the aircraft is Normal category only. Total safe life is 3600 hours TIS.
- Safe life can be extended to 4800 hours TIS, but only with the wing root reconstruction and a manufacturer inspection.
- Wheels and brakes have no fixed service life. Replacement depends on condition, based on regular inspections.

WING FATIGUE LIFE AND CATEGORY LIMITS

Bulletin Z142/54a applies to all Z142 aircraft with unstrengthened wings. They may not fly in ACROBATIC category. Under 190 hours TIS in Acrobatic/Utility, they may reach that limit in Utility only, within 3600 hours TIS. Beyond 190 hours, the wing root must be reconstructed. The conic pins and bushings of the main wing hinges and the rear hinge pins must also be replaced. Then the aircraft flies in Normal category only.

EARLIER Z 142 C LIMIT (SERIAL NUMBERS UP TO 0560)

Bulletin Z 142C/17a (October 31, 2000) applies to Z 142 C up to and including serial number 0560. It set a safe fatigue life of 190 flight hours in Acrobatic and Utility categories, with 3500 flight hours of total technical life. The operator must record acrobatic flights in the logbook. Ask for the logbook and proof of the wing root work.

SYSTEMS AND RUNNING GEAR ITEMS

Pitot-static hoses replaced with silicon hoses on listed serial numbers need distance spirals fitted at the next 100-hour or annual inspection (Bulletin Z 142/40a). Wheels and brakes are on-condition under Bulletin Z 42/43a, Z 142/39a. Z 142 C aircraft with AXL nose gear 793-HPK-185-19 are on-condition, and the 50-hour nose gear inspection is cancelled (Z 142C/28a Rev. 1).

SAFETY NOTES

- Check the fitted bolts of the upper outer wing hinges visually at pre-flight, and after 100 hours TIS or 1 year, whichever is earlier.
- If even one fitted bolt on the upper wing hinges loosens or fails, all 20 bolts on both parts of the upper hinge must be replaced.
- A deformed pitot-static hose can block and cause the speed measuring system to malfunction. Confirm that bulletin Z 142/40a was done.

AI-aggregated guide for the Moravan Z-142 · sources: MANDATORY SERVICE BULLETIN Z142/54a (#101127) · MANDATORY SERVICE BULLETIN Z 142C/17a (#100478) · MANDATORY SERVICE BULLETIN Z 42/43a Z 142/39a Z 43/38a (#100879) · MANDATORY SERVICE BULLETIN Z 142C/28a – Rev. 1 (#100880) · MANDATORY SERVICE BULLETIN Z 142/40a, Z 43/39a (#101128) · generated 2026-10-17 · Reference only, not for flight. Check the original documents before relying on this guide.