

LEONARDO AW139 Model Guide

LEONARDO AW139 is a Leonardo (registry maker: Agusta) helicopter in the AB139/AW139 family, listed as turboshaft in the registry family data. Family-level figures reach up to 15 passengers, 400 nm range and 151 kt cruise. This guide draws on the FCOM overview, Emergency Alert Service Bulletin 139-783 and AMP Chapter 4 retirement lives. No variant-specific performance data was supplied.

KEY TAKEAWAYS

- Check SB 139-783 (Emergency Alert, Rev. A, 6 Nov 2024): main shock absorber eye-end ultrasonic inspection, repeated every 2000 landings or 12 months.
- If landings are not recorded, the documents count them as flight hours multiplied by 6. Check that the log cards are complete.
- AMP Chapter 4 Issue 9 sets mandatory retirement lives, e.g. main rotor blade P/N 3G6410A00131 at 20,000 FH or 50,200 landings.
- Registry category says single-engine piston, but family data says turboshaft. Confirm the actual engine configuration on the aircraft.

SHOCK ABSORBER INSPECTION (SB 139-783)

Applies to all main shock absorber assemblies P/N 3G3210V00333 or 3G3210V01031, installed or in stock. Two broken piston rod eye ends were reported in service. Ultrasonic testing looks for cracks. Installed units with 7000 landings or more and not previously inspected were due within 10 FH of issue. The inspection takes about 1 man-hour, or about 20 if the unit is replaced. Replacement does not end the repeat inspections.

RETIREMENT LIVES (AMP CHAPTER 4 ISSUE 9)

Listed parts must be retired when their life is reached. Lives assume 800 landings per 100 flying hours and 20 percent CAT. A training use. Heavier use means contacting the manufacturer. Examples: left main landing gear P/N 3G3210V00831 at 25000 landings; M/R damper body end assembly at 2400 FH. Operation above 6400 kg MTOW carries life penalty factors on some parts. Ask to see the log card for every life-limited part.

MANUALS AND TRAINING

Leonardo issued the AW 139 FCOM in 2017. It covers Performance, Limitations, Normal Operations, Emergencies and Malfunctions, and Aircraft Systems. It includes offshore supplements and a multi-crew cooperation section. It is integrated with the Skyflight mobile flight-planning app. Check which manual revisions the operator uses.

SPECIFICATIONS

Family Max Passengers	15
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PERFORMANCE

Family Max Range Nm	400
Family Max Cruise Speed Kt	151
Family Max Service Ceiling Ft	12000

SAFETY NOTES

- SB 139-783 is an Emergency Alert. Confirm compliance dates and the next due inspection are recorded in the shock absorber, MLG and helicopter logs.
- The ultrasonic inspection must be done by personnel qualified to EN4179/NAS410 Level II or higher, or an equivalent standard.
- Shock absorbers found not serviceable must be replaced and the removed unit sent to Leonardo; spares with 4000 landings or more need inspection before installation.