

ECLIPSE EA500 Model Guide

ECLIPSE EA500 is a turbofan jet. Registry data for the model family shows up to 6 passengers, up to 1200 nm range, up to 285 kt cruise and up to 41000 ft service ceiling. Those are family maxima, not figures for a single airframe. This guide is built from Eclipse service bulletins, so a buyer's main job is to check bulletin compliance by serial number.

KEY TAKEAWAYS

- Family-level maxima only: up to 6 passengers, 1200 nm range, 285 kt cruise, 41000 ft ceiling. Verify the actual airframe's figures in its AFM.
- Early aircraft (serials 000001 through 000064) were covered by SB 500-34-005, a pitot/AOA upgrade. Confirm it was done.
- SB 500-25-009 and SB 500-57-012 are mandatory at the next 300 hour / 24 month inspection. Check logbooks for compliance by serial number.
- Bulletins name Eclipse SE, SEP, Total Eclipse Plus and Eclipse 500 Plus configurations. Confirm which avionics and configuration the aircraft has.

SAFETY NOTES

- Before SB 500-34-005, the pitot/AOA system could ice up in some moisture and temperature combinations, causing erroneous angle-of-attack and airspeed information.
- SB 500-34-019 failed probes must be replaced. Probe and static port heaters get hot in testing; allow 10 minutes to cool.
- SB 500-25-009 requires wiring harness routing with at least 0.5 inch clearance from the flight controls.

PITOT/AOA SYSTEM HISTORY

SB 500-34-005 Rev B (ALERT, issued 10 July 2007) upgrades the pitot/AOA probes and adds a water trap to the tubing for serials 000001 through 000064. SB 500-34-019 Rev C (ALERT) requires a pitot/AOA probe heater inspection/test for serials 000001 through 000189. Ask for compliance records for both.

MANDATORY STRUCTURAL AND WIRING BULLETINS

SB 500-25-009 Rev B reworks the forward center floor panel to improve clearance to the left main cabin wiring harness (about 24 labor hours estimated). It applies to serials up to 000300. SB 500-57-012 Rev A inspects flap actuator wiring for overbraid (serials 000001 to 000239 after SB 500-57-008). Inspection is 0.5 hour; up to 16.5 hours if overbraid must be installed.

IMPORTING TO EASA COUNTRIES

SB 500-04-001 Rev C (15 April 2016) sets the configuration for aircraft registered in EASA states, covering serials 000001 to 000262 and 000266 to 000267. It lists required manuals and bulletins, including Flight Into Known Icing (SB 500-99-004) and the Performance Enhancement Modification (SB 500-99-001). Applicable FAA ADs must also be complied with.