

EMBRAER LEGACY 500 Model Guide

EMBRAER LEGACY 500 is listed under the Embraer EMB-550 family, which the registry classes as turbofan. Family-level maxima are up to 12 passengers, up to 3100 nm range and up to 17400 kg maximum takeoff weight. These are not confirmed Legacy 500 figures. The supplied documents are maintenance material, so this guide focuses on records and inspection.

KEY TAKEAWAYS

- Family maxima (EMB-550): up to 12 passengers, 3100 nm range, 460 kt cruise, 45000 ft ceiling. Not variant-specific.
- Service Bulletin SB550-57-0005 covers the EMBRAER LEGACY 500 (EMB-550). Check the log book for wing repairs made under older SRM data.
- Library data labels this model single-engine piston, but the registry says turbofan. Confirm the engine type from the aircraft's own records.
- Main-door sensor mechanisms need lubrication with MOLIKOTE DC-33 LIGHT grease under task 52-71-21.

WING REPAIR RECORDS (SB550-57-0005)

Embraer found a quality escape in Structural Repair Manual 3858. The SB, dated Mar 22, 2022, asks owners to check the log book for any repair made using SRM revision 12 or earlier. Affected areas include wing skins, flap track fairings, aileron shrouds and winglets. If such a repair exists, contact the Embraer Contact Center.

SB COMPLIANCE AND COST

The SB is Category 02: Recommended. It was to be done within 750 flight cycles or 12 months of issue, whichever came first. Estimated labor for the Legacy 500 group is 3.5 man-hours of inspection, with no change to basic weight or moment and no parts needed. Ask the seller for proof the log book check was done.

MAIN-DOOR SENSOR MAINTENANCE

Maintenance task 52-71-21 (manual revision 56, Jun 20/24) covers lubricating the main-door sensor mechanisms with MOLIKOTE DC-33 LIGHT. The procedure depends on whether SB 550-52-0006 is incorporated, since that decides whether a spring piston is fitted on the locked sensor support. Check that status and the lubrication records.

PERFORMANCE

Family Max Range Nm	3100
Family Max Cruise Speed Kt	460
Family Max Service Ceiling Ft	45000

SAFETY NOTES

- Make the aircraft safe for maintenance before any work, as the maintenance task requires.
- Any wing repair logged under SRM revision 12 or earlier needs Embraer review. Do not assume it is acceptable.
- Treat the family maxima as upper limits only. Take real limits from the aircraft's flight manual.