

BELL 407GXI Model Guide

BELL 407GXI is the FADEC-equipped 407GX variant of the Bell 407 family. The supplied documents give no variant-specific weights or performance figures. Family-level registry data for the 407 lists a turboshaft engine, up to 7 passengers, up to 310 nm range, up to 115 kt cruise and a service ceiling up to 18,500 ft.

KEY TAKEAWAYS

- Alert Service Bulletin 407-21-125 replaces the collective pitch transducer on affected 407GXi helicopters after engine and FADEC faults.
- Check the logbook for ASB 407-21-125 compliance: it was due within 300 flight hours or 6 months of 28 September 2021.
- Technical Bulletin 407-20-133 is optional and reduces water ingress in the torque and transmission oil pressure transducer connectors.
- A Garmin 500W avionics STC makes the helicopter VFR-only and needs a weight and balance after installation.

COLLECTIVE PITCH TRANSDUCER (ASB 407-21-125)

Bell found that engine parameter oscillations and FADEC faults can occur on the 407GXi. The fix replaces transducer 412-074-101-103 with 412-074-101-107 and takes about 2.0 man-hours. Affected serials are 54304, 54567 and 54805 through 54969. Later serials had it done before delivery. Confirm the part number and the logbook entry.

CONNECTOR WATER-INGRESS FIX (TB 407-20-133)

This 16 October 2023 bulletin is at the customer's option. It replaces connectors, adds heat shrink sleeves and re-orientes clamps on the engine torque and transmission oil pressure transducer wiring, to keep water out. It takes about 12 man-hours with no warranty credit. Serials 54930 and later had it done before delivery. The 407GXi has no engine oil pressure transducer (1G5).

GARMIN 500W AVIONICS STC

Some Bell 407s carry the Garmin 500W series GPS/WAAS Nav/Com under STC SR02080SE. These helicopters are restricted to VFR only and need an 'APPROVED FOR DAY/NIGHT VFR' placard in the pilot's view. Weight and balance is required after installation. The unit, rack and cooling fan are inspected every 12 months.

SAFETY NOTES

- Do not assume ASB 407-21-125 was done. Check the serial number and the logbook for the compliance entry.
- Aircraft with the Garmin 500W STC are VFR only. Look for the required placard.
- Bonding tests on the 500W rack and antennas are due every 2000 flight hours or ten years, whichever is first.