COLUMBIA 400 G1000 Model Guide

COLUMBIA 400 G1000 is listed as a single-engine piston aircraft with a Garmin G1000 glass cockpit. No model-level specs, seating or performance figures were supplied. This guide therefore draws on one airframe's maintenance records (model LC41-550FG, built 2007) and Garmin's generic G1000 maintenance manual. Use it as a pre-buy checklist, not a spec sheet.

KEY TAKEAWAYS

- No verified performance, payload or price data was supplied; take figures from the approved POH and the type certificate data sheet.
- The sample airframe has a Teledyne Continental TSIO-550C(11) engine and Oregon Aero seats, built under TCDS A00003SE.
- Nose strut shimmy led to several strut replacements in the records; inspect the strut and nose wheel balance closely.
- Aileron linear bearings were found damaged from improper lubrication under AD 2007-07-06; confirm their condition and AD compliance.

AIRFRAME HISTORY TO REVIEW

The records show repeated nose strut replacements for shimmy, plus a strut-to-socket gap found out of tolerance and shimmed. The aileron linear bearings were replaced with a new style. The right main wheel assembly had a broken bolt and was warped. Speedbrakes and their logic box were replaced. Ask for the full logbooks.

G1000 AVIONICS CHECKS

The records show a GRS 77 AHRS failure (no attitude or heading display) that was fixed by replacement, a GCU 476 replaced, and G1000 software upgrades. Garmin's manual is generic: always use the OEM aircraft data for correct software versions. Its periodic maintenance covers GFC 700 autopilot inspection and a GSM 85 servo slip clutch test.

OTHER ITEMS SEEN IN THE LOGS

Propeller de-ice boots and restrainer straps were replaced. Cylinder head and exhaust gas temperature probes were replaced. The logs also record door lock and latch repairs, repeated nav lamp replacements and an oil cooler winterization modification. Check each against current service bulletins.

SAFETY NOTES

- Rudder hinge bracket inspection under AD 2009-09-09 and SB 09-27-01R2 appears in the records; verify compliance.
- AD 2007-07-06 (aileron and elevator control jamming) is a repetitive inspection; confirm it is current.
- Ammonia cleaners harm the G1000 display anti-reflective coating; use a lint-free cloth and a coating-safe lens cleaner.

AI-aggregated guide for the COLUMBIA 400 G1000 · sources: Airframe Maintenance Records (#100809) · G1000 SYSTEM MAINTENANCE MANUAL (LJ/VLJ AIRCRAFT) (#4003) · generated 2026-10-21 · Reference only, not for flight. Check the original documents before relying on this guide.