

BEECHCRAFT KING AIR C90GTi Model Guide

The BEECHCRAFT KING AIR C90GTi is a turboprop in the Beechcraft model 65 family (variants include C90, C90A, C90GT and C90GTi). The registry gives no variant-specific performance or weight figures, so this guide covers what the supplied documents show: avionics configuration and maintenance. Family-level maxima are up to 1390 nm range, 278 kt cruise, 10 passengers and 35000 ft ceiling.

KEY TAKEAWAYS

- The documents describe two avionics paths: Rockwell Collins Pro Line Fusion (SB 34-4171) and a Garmin G1000/GFC 700 STC (SA01456WI-D).
- SB 34-4171 (Revision 2) upgrades Pro Line Fusion Phase 1 or 2 software to Phase 3. It is RECOMMENDED, done at a scheduled inspection.
- Phase 3 work may need Rockwell Collins IOC card upgrades. Going from Phase 1 also needs a database subscription change from J42 to J61 format.
- Only Textron Aviation-owned or Textron Aviation-authorized Service Centers can complete SB 34-4171.

SAFETY NOTES

- An SB may be logged complete only if all instructions are done and the kit parts are used. Verify the logbook entry and who did the work.
- Garmin GDU display lenses have an anti-reflective coating. Cleaners containing ammonia will harm it.

PRO LINE FUSION STATUS BY SERIAL NUMBER

SB 34-4171 covers C90GTi serial numbers LJ-2129 thru LJ-2169. LJ-2129 thru LJ-2136 carry Phase 2 via Textron kit 434-3019. LJ-2137 thru LJ-2169 and on carry Phase 2 via ICIT part number 434-310011-0005. Aircraft with Rockwell Collins STC SA01792WI or SA01857WI already have Phase 3. Check which applies.

GARMIN G1000/GFC 700 OPTION

Garmin manual 190-00682-01 (Revision M, October 2022) covers C90A, C90GT and C90GTi aircraft with STC SA01456WI-D. The system uses two GDU 1040A PFDs, a GDU 1500 MFD, a GMC 710 AFCS control unit and two GIA 63W units. Revision M changed the ITT engine data check to add temperature compensation.

WHAT TO CHECK BEFORE BUYING

Ask which avionics suite is fitted and which phase or STC applies. Confirm the SB 34-4171 status in the logs. The ASPU must be at modification level MOD 3A before the SB. Garmin intervals include engine data checks (torque, ITT, oil pressure), electrical bonding tests and standby battery checks.