

AIRWORTHINESS DIRECTIVE SUMMARY

1977 Beechcraft A36 Bonanza - N71KW - Serial No. E-1144

Registration	Model	Serial	Year
N71KW	Beechcraft A36	E-1144	1977

Engine	Propeller	Engine S/N	Prop Hub S/N
Continental IO-550-B82B	Hartzell PHC-(C,L)3YF-1RF 3-blade Scimitar	1046044	QG2421B

Aircraft-specific basis. The current Aircraft Associates listing identifies N71KW as a 1977 A36, S/N E-1144, with a Continental Aerospace Technologies IO-550-B82B, S/N 1046044, and Hartzell PHC-(C,L)3YF-1RF three-blade propeller, hub S/N QG2421B. The installed avionics and modifications below are taken from that same current listing. Final AD applicability must still be established from the aircraft logbooks, installed part numbers/serial numbers, STCs, Form 337s, and the current FAA DRS.

CONFIRMED / HIGH-PRIORITY A36 AIRFRAME ADs

AD	Subject	E-1144 status	Recurring?
<u>93-24-03</u>	Rudder forward spar - crack inspection	Applicable by A36 model/serial range; verify compliance history.	Per AD / records
<u>95-04-03</u>	Wing front spar carry-through structure	Applicable. E-1144 is within A36 E-1 through E-2397.	YES - 500 hr
<u>97-14-15</u>	Cabin side door / utility door handle	Applicable by model; verify recorded one-time compliance.	Normally one-time
<u>2003-01-01</u>	RH fuselage panel - missing rivets	Applicable. A36 E-185 through E-3231 and E-3233.	Normally one-time
<u>2008-13-17</u>	Circuit-breaker toggle switches	Serial range includes E-1144; actual applicability depends on affected switch P/Ns.	P/N dependent
<u>2009-25-01</u>	Pilot/copilot shoulder-harness retaining washers	Applicable. A36 E-825 through E-2578.	One-time

TWO STRUCTURAL ITEMS TO WATCH CLOSELY

AD 95-04-03 - Wing carry-through: E-1144 is inside the A36 applicability range. When no cracks are found, the AD requires repeat inspections at intervals not to exceed 500 hours TIS. Establish the most recent compliance time and the next due point from the logs.

AD 93-24-03 - Rudder forward spar: Verify the inspection/repair history and whether any terminating repair or replacement recognized by the AD or incorporated service information has been accomplished.

CURRENT INSTALLED AVIONICS & EQUIPMENT

ADS-B / Transponder	Garmin GTX 345 ADS-B In/Out
Audio / Intercom	Garmin GMA 350c; 6-place stereo intercom
Autopilot	Garmin GFC 500 digital autopilot
Primary EFIS	Garmin GI 275 attitude indicator
HSI / EFIS #2	Garmin GI 275 horizontal situation indicator
GPS / Nav / Comm	Garmin GTN 650 IFR WAAS GPS/Nav/Comm
Nav / Comm	Garmin GNC 215 Nav/Comm
Engine monitor	JPI EDM 700
Fuel flow	Shadin Microflo-L 912041T-38-D
ELT	Ameri-King AK-450
Chronometer	Davtron M800B

ENGINE, PROPELLER & INSTALLED-EQUIPMENT REVIEW

The current listing shows a factory-new Continental IO-550-B82B, S/N 1046044, installed January 2024 with 126.45 hours SNEW at the time of the listing, and a Hartzell PHC-(C,L)3YF-1RF three-blade Scimitar propeller, hub S/N QG2421B, also 126.45 hours SNEW. Engine and propeller AD research therefore must use these exact current components rather than the original 1977 powerplant/propeller configuration.

- Continental IO-550-B82B: run the current FAA AD search against the exact engine model/SN and each installed accessory, including magnetos/ignition, fuel system, cylinders, starter/adaptor and alternator as applicable.
- Hartzell PHC-(C,L)3YF-1RF: verify hub and individual blade serial numbers against current Hartzell propeller ADs and service information.
- Garmin GFC 500 / dual GI 275 / GTN 650 / GNC 215 / GTX 345 / GMA 350c: reconcile exact unit P/Ns, S/Ns, software/configuration and installation STCs/ICAs against current appliance ADs and mandatory service information.
- JPI EDM 700 and Shadin Microflo-L: verify installation approvals and appliance-specific requirements; these instruments do not replace component-level engine/fuel-system AD research.
- Ameri-King AK-450 ELT: verify installed condition, battery/service status and any applicable equipment ADs or regulatory replacement considerations from the maintenance records.
- Airframe modifications: current listing includes D'Shannon FreeFlow exhaust, D'Shannon engine baffles/airflow panels, tuned injectors, 100-amp alternator, Whelen LED lighting, electric trim, aileron trim and other equipment. Reconcile each STC/337/ICA in the records.

ADs / ITEMS SHOWN NOT TO APPLY TO E-1144

AD	Subject	Reason
<u>2007-08-08</u>	Landing-gear uplock roller	A36 applicability is limited to early serial numbers; E-1144 is outside the affected range.
<u>2019-23-10</u>	Right aileron flight-control cable end fittings	A36 applicability is E-185 through E-925. E-1144 is outside that range. This AD superseded 2019-21-08.

PRIORITY LOGBOOK VERIFICATION CHECKLIST

- ☐ AD 95-04-03: establish the date/tach of the latest wing carry-through inspection and the next 500-hour due point.
- ☐ AD 93-24-03: establish rudder forward-spar inspection/repair status.
- ☐ AD 2003-01-01: confirm one-time RH fuselage-rivet compliance.
- ☐ AD 2009-25-01: confirm one-time shoulder-harness washer compliance.

- ☐ Confirm the IO-550-B82B installation approval, engine S/N 1046044, and all applicable Instructions for Continued Airworthiness.
- ☐ Run engine/accessory AD status using the actual accessory P/Ns and S/Ns.
- ☐ Run Hartzell propeller AD status using hub S/N QG2421B and each blade model/S/N.
- ☐ Reconcile Garmin, JPI, Shadin, ELT and other installed appliances to the current equipment list and AD search.
- ☐ Confirm all superseded ADs are carried forward correctly in the aircraft AD compliance record.

IMPORTANT LIMITATION

This report is an aircraft-specific research summary, not an FAA-approved maintenance record or a determination of airworthiness. A complete AD determination requires searching the aircraft, engine, propeller and installed appliances using the actual models, serial numbers, part numbers and modifications. Final applicability and compliance must be established by an appropriately certificated mechanic/IA using the current FAA DRS, aircraft logbooks, component records, STCs, Form 337s and the actual installed configuration.

Click any blue underlined AD number to open the directive or its source page. Equipment data in this corrected revision is taken from the current Aircraft Associates N71KW listing.