

# BELL 206B II Model Guide

BELL 206B II is a Bell light helicopter in the 206 family. The supplied data has no variant-specific specifications, weights or performance figures. This guide therefore covers what the maintenance documents say about ownership: rotor track and balance, installed-equipment modifications, and parts support. Check all figures against the flight manual and the aircraft's records.

## KEY TAKEAWAYS

- No variant-specific performance or weights were supplied. Get them from the flight manual and aircraft records before buying.
- Main rotor track and balance is a key check. Van Horn guidance aims for .2 IPS or less in all flight regimes.
- Check which modifications are fitted: Garmin 500W (VFR only), Donaldson inlet barrier filter, Keith air conditioning.
- Overhaul and PMA parts support exists for the rotor hub, mast, transmission, swashplate, tail rotor gearbox and hydraulics.

## SAFETY NOTES

- Flap restraint engagement RPM: Van Horn says remove weight if below 25% and add weight if above 31%.
- Vibration causes to inspect: trunnion end play over .004 inch, a deteriorated transmission isolation mount, and loose control linkage.
- Aircraft modified under the Garmin 500W STC are VFR only, including aircraft that were not previously restricted to VFR.

## ROTOR TRACK AND BALANCE

Van Horn Aviation guidance for 206B blades: centre the trunnion, remove old weights and reset the rigging to nominal before fitting blades. Check vibration at no less than 60 and 100 kts and at VH (85% Tq), aiming for .2 IPS and below. Retorque the main rotor head after the first run. Ask to see the track and balance records.

## INSTALLED MODIFICATIONS TO VERIFY

The Garmin 500W STC SR02080SE restricts the aircraft to VFR only and requires an APPROVED FOR DAY/NIGHT VFR placard in the pilot's view. The Donaldson inlet barrier filter (STC SR09451RC) has a bypass door that acts as an alternate air inlet if the filter clogs. Keith Products supplies a heating and cooling system for the 206 series.

## PARTS AND OVERHAUL SUPPORT

Able Aerospace lists repair, overhaul and PMA parts for the 206 main rotor hub and mast, transmission, swashplate, tail rotor gearbox and hub, and main rotor hydraulic actuator. Check the service history of these dynamic components, and that any PMA parts fitted are documented.