

BELL 206 Model Guide

BELL 206 is a Bell helicopter. The registry family covers the 206, 206A, 206A-1 (OH-58A), 206B and 206B-1, with up to 6 passengers at family level. Library data lists 4050 lb max takeoff weight, 2250 lb empty weight and 130 kt Vne. The library tags it piston, but its Allison 250-C30F engine and the registry class are turboshaft.

KEY TAKEAWAYS

- Library figures: 4050 lb max takeoff weight, 2250 lb empty weight, 250 lb baggage allowance, 99.4 gal fuel.
- Vne is 130 kt and the service ceiling is 20000 ft. The checklist also caps pressure altitude at 20,000 ft.
- The library row says piston, but the engine is an Allison 250-C30F and the registry says turboshaft. Verify the actual engine.
- Check airframe status against the Airfilm G1 nose-mount service bulletin if a camera mount is fitted.

VARIANTS AND PAPERWORK

The registry family spans the 206, 206A, 206A-1 (OH-58A), 206B and 206B-1. The flight manuals supplied cover the Jet Ranger III (206B3), Long Ranger III (206L3) and Long Ranger IV (206L4), so confirm which manual and engine match the helicopter. The manual must be aboard during all operations.

PREFLIGHT AND START ITEMS

The Jet Ranger checklist covers the rotor head (hub, yoke, pitch links, swashplate), hydraulics, transmission mounts, tail boom cracks, tail rotor and fuel drains. Engine start has a 45 second starter limit. TOT is 810-927 with a 10 second maximum. Rotor should be turning by 25% N1.

INSPECTION AND MAINTENANCE HISTORY

A mandatory Airfilm bulletin on BELL 206 and 206L airframes with the G1 Utility Mount calls for a nose console crack inspection within 40 flight hours. Cracks were found at the forward mount fasteners. A US Interior MEL procedures guide for 14 CFR 91 shows what may be deferred.

SPECIFICATIONS

Engine Model	Allison 250-C30F
Empty Weight Lbs	2250
Max Takeoff Weight Lbs	4050
Fuel Capacity Gal	99.4
Baggage Allowance Lbs	250
Service Ceiling Ft	20000

PERFORMANCE

Max Speed Kts	130
Rate Of Climb Fpm	1070
Service Ceiling Ft	20000

V-SPEEDS

Vne Kts	130
Autorotation Min Descent Kts	52
Autorotation Max Glide Kts	69
Autorotation Max Kts	115

WEIGHT & BALANCE

Basic Empty Weight Lbs	2250
Max Takeoff Weight Lbs	4050
Baggage Allowance Lbs	250

SAFETY NOTES

- Engine fire in flight: close the throttle, autorotate at once, fuel valve off, battery off.
- If an engine failure is believed mechanical, do not attempt a restart. No air start above 12,000 ft.
- After generator failure, descend below 6000 ft pressure altitude if possible, because fuel boost pumps may be lost.