

ROBINSON R44 ASTRO Model Guide

ROBINSON R44 ASTRO is a single-engine piston helicopter built by Robinson. The supplied records contain no Astro-specific performance figures. Family data for the R44 and R44 II show up to 4 passengers, up to 350 nm range, up to 113 kt cruise and up to 1100 kg maximum takeoff weight. Check exact figures against the Astro's own flight manual.

KEY TAKEAWAYS

- Family data (R44, R44 II), not Astro-specific: up to 4 passengers, 350 nm range, 113 kt cruise, 14000 ft ceiling.
- Each under-seat compartment holds 50 lb max. Seat plus compartment together may not exceed 300 lb.
- Fuel is 100-octane minimum aviation gasoline. Fill the left tank first and top off after filling the aux tank.
- Ask for records of 100-hour/annual inspections, the 12-year inspection and the 2200-hour overhaul.

LOADING AND FUEL PLACARDS

The R44 family placards limit each under-seat compartment to 50 lb (23 kg). Seat plus compartment load is limited to 300 lb (136 kg), and total weight must stay within the gross weight limit. Fuel caps say 100 octane minimum aviation gasoline and 'align stripes'. Use only sealed maintenance-free batteries.

INSPECTIONS AND RECORDS TO CHECK

The maintenance manual covers the 100-hour/annual inspection, the 12-year inspection and limited overhaul, and the 2200-hour overhaul. It also has a life-limited components chapter. Special inspections apply after tail skid strike, tail rotor strike, main rotor strike, rotor/engine overspeed, hard landing and lightning strike. Look for steel tube frame corrosion and V-belt condition.

WARRANTY AND OPTIONAL EQUIPMENT

Robinson's new-aircraft warranty runs two years or the first 1000 hours, whichever comes first. Gearboxes have an extra pro-rated warranty for 2200 hours or three years. Approved R44 II supplements include floats, heated pitot, Garmin GPSMAP 225, air conditioning, ADS-B and autopilot. Confirm which are fitted and approved for the aircraft.

PERFORMANCE

Family Max Range Nm	350
Family Max Cruise Speed Kt	113
Family Max Service Ceiling Ft	14000

WEIGHT & BALANCE

Baggage Compartment Limit Lbs	50
Seat Plus Compartment Limit Lbs	300

SAFETY NOTES

- Tail rotor danger placards are on the tailcone and cabin. The tail rotor guard is marked 'No hand hold'.
- Rear cabin doors are marked 'Push to lock. Do not lock in flight'.
- Main rotor blade tips are marked: never pull the blade down, push up the opposite blade.