

14. Cabin Interior

Loose articles Removed or stowed
Instruments, switches, and controls . . Check condition
Clock Functioning
Adjustable pedals. Pins secure

CAUTION

Remove left seat controls if person in that seat is not a rated helicopter pilot.

CAUTION

Fill baggage compartments under unoccupied seats to capacity before using baggage compartments under occupied seats. Avoid placing objects in compartment which could injure occupant if seat collapses during a hard landing.

CAUTION

Ensure all doors are unlocked before flight to allow rescue or exit in an emergency.

CAUTION

Shorter pilots may require cushion to obtain full travel of all controls. Verify aft cyclic travel is not restricted.

NOTE

Aircraft with optional equipment may have modified or additional checklist items. Refer to appropriate Pilot’s Operating Handbook Supplement.

Additional Items

Preflight items for optional equipment installed on aircraft:

ROBINSON HELICOPTER COMPANY
MODEL R44 II
DAILY OR PREFLIGHT CHECKS

Visit www.robinsonheli.com to verify this checklist is current.

GENERAL PROCEDURES

- Remove ground handling wheels and all covers and tie-downs.
- Remove even small accumulations of frost, ice, or snow, especially from rotor blades.
- Check maintenance records to verify aircraft is airworthy.
- An 8-foot step ladder is recommended for preflight inspection of the main rotor; however, main rotor hub may be reached by first opening right rear seat and stepping on seat support and then stepping on deck below the aux fuel tank.
- Check general condition of aircraft and verify no visible damage, fluid leakage, or abnormal wear.
- Verify no fretting at rivets and seams where parts are joined together. Fretting of aluminum parts produces a fine black powder while fretting of steel parts produces a reddish-brown or black residue.
- Verify Telatemps show no temperature increase that cannot be attributed to a change in operating conditions (mechanics draw a reference line to the right of the highest temperature square which has darkened in operation).
- Verify torque stripes on critical fasteners are not broken or missing.

1. Upper Forward Cowl Doors - Right Side

Battery switch ON
 Oil pressure, alt, aux fuel pump lights ON
 Warning light test switches Push to test
 Fuel quantity Check gages
 Battery switch OFF
 Aux fuel tank quantity Check
 Fuel filler cap Tight
 Aux fuel tank No leaks
 Fuel lines No leaks
 Fuel tank sump, gascolator drains Sample
 Gearbox oil Full, no leaks
 Hydraulic system Fluid full, no leaks
 Rotor brake Actuation normal
 Flex coupling No cracks, nuts secure
 Yoke flanges No cracks
 Gearbox, hydraulic pump Telatemp Normal
 Control rod ends Free without looseness
 Steel tube frame No cracks
 All fasteners Secure
 Tail rotor control No interference

2. Main Rotor**CAUTION**

Do not pull down on blades to teeter rotor. To lower a blade, push up on opposite blade.

Blades Clean and no damage/cracks

CAUTION

Verify erosion on lower surface of blades has not exposed skin-to-spar bond line. Reference Rotor Systems description in Section 7 of the Pilot's Operating Handbook.

Pitch change boots No leaks
 Main hinge bolts Cotter pins installed
 All rod ends Free without looseness
 All fasteners Secure
 Swashplate scissors No excessive looseness
 Upper forward cowl doors Latched

3. Lower Cowl Door - Right Side

Air box and duct Secure
 Engine sheet metal No cracks
 Fuel lines No leaks
 Oil lines No leaks or chafing
 Exhaust system No cracks
 Throttle linkage Operable
 Cowl door Latched

4. Aft Cowl Door - Right Side

Oil cooler door Check
 V-belt condition Check
 V-belt slack 1.5 inches (4 cm) maximum
 Sprag clutch No leaks
 Upper bearing No leaks
 Telatemp - upper bearing Normal
 Sheave condition Check
 Flex coupling No cracks, nuts secure
 Yoke flanges No cracks
 Steel tube frame No cracks
 Tail rotor control No interference
 Tailcone attachment bolts Check
 Cowl door Latched

5. Engine Rear

Cooling fan nut Pin in line with marks
 Cooling fan No cracks
 Fan scroll No cracks
 Tailpipe hanger No cracks

6. Empennage

Tail surfaces No cracks
 Fasteners Secure
 Position light Check
 Tail rotor guard No cracks

7. Tail Rotor

Gearbox Telatemp Normal
 Gearbox Oil visible, no leaks
 Blades Clean and no damage/cracks
 Pitch links No looseness
 Teeter bearings Check condition
 Teeter bearing bolt Does not rotate
 Control bellcrank Free without looseness

8. Tailcone

Skins No cracks or dents
 Strobe light condition Check
 Antenna Check

9. Cowl Door - Left Side

Engine oil 7-9 qts
 Oil filter Secure, no leaks
 Battery and relay (if located here) Secure
 Steel tube frame No cracks
 Engine sheet metal No cracks
 Exhaust system No cracks
 Cowl door Latched

10. Main Fuel Tank

Quantity Check
 Filler cap Tight
 Leakage None

11. Fuselage Left Side

Baggage compartments Check
 Removable controls Secure if installed
 Collective control Clear
 Seat belts Check condition and fastened
 Doors Unlocked and latched
 Door hinge safety pins Installed
 Landing gear Check
 Position light Check
 Static port Clear

12. Nose Section

Pitot tube Clear
 Windshield condition and cleanliness Check
 Landing lights Check
 Yaw string Check

13. Fuselage Right Side

Baggage compartments Check
 Seat belts Check condition and fastened
 Aft door Unlocked and latched
 Door hinge safety pins Installed
 Landing gear Check
 Position light Check
 Static port Clear