

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](http://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