14. Cabin Interior

Loose articles . . . . . Removed or stowed
Seat belt . . . . . Check condition
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

Additional preflight items for optional equipment installed on aircraft:

ROBINSON HELICOPTER COMPANY

MODEL R44 CADET

DAILY OR PREFLIGHT CHECKS

Please 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 stepping on the aft right door sill 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 and alternator 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 Telatemps . . . . . 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.

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

Carb air ducts . . . . . Secure
Carb heat scoop . . . . . Secure
Engine sheet metal . . . . . No cracks
Fuel lines . . . . . No leaks
Oil lines . . . . . No leaks or chafing
Exhaust system . . . . . No cracks
Primer (if installed). . . . . Prime as required/ Locked/No leaks
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 (if installed) . . . . . Secure, no leaks
Throttle linkage . . . . . Operable
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 belt . . . . . 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
Aft door . . . . . Unlocked and latched
Door hinge safety pins . . . . . Installed
Landing gear . . . . . Check
Position light . . . . . Check
Static port . . . . . Clear