

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

Preflight items for optional equipment installed on aircraft:

[illegible]

ROBINSON HELICOPTER COMPANY

MODEL R44 CADET

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 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 T_{el} temps 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 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

Cabin 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