## 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

## 14. Cabin Interior

Loose articles . . . . . Removed or stowed
Instruments, switches, and controls . . Check condition
Clock . . . . . Functioning
Adjustable pedals (if installed) . . . . . 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

# 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 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 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 qt
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 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