

R44

PILOT'S OPERATING HANDBOOK

AND FAA APPROVED ROTORCRAFT FLIGHT MANUAL

RTR 461

THE R44 IS FAA APPROVED IN NORMAL CATEGORY BASED ON FAR 27 AND FAR 21. THIS HANDBOOK INCLUDES THE MATERIAL REQUIRED TO BE FURNISHED TO THE PILOT BY FAR 27 AND FAR 21 AND MUST BE CARRIED IN THE HELICOPTER AT ALL TIMES.

HELICOPTER SERIAL NO. 1098

HELICOPTER REGISTRATION NO. N144SM

SECTIONS 2, 3, 4, 5, AND 9

FAA APPROVED BY: [Signature]

Acting
MANAGER, FLIGHT TEST BRANCH, ANM-160L
FEDERAL AVIATION ADMINISTRATION
LOS ANGELES AIRCRAFT CERTIFICATION OFFICE
TRANSPORT AIRPLANE DIRECTORATE

DATE: 12/10/92

ROBINSON HELICOPTER COMPANY
TORRANCE, CALIFORNIA

1 GENERAL

2 LIMITATIONS

4 NORMAL
PROCEDURES

5 PERFORMANCE

6 WEIGHT &
BALANCE

DAILY OR PREFLIGHT CHECKS

Remove any temporary covers and, in cold weather, remove even small accumulations of frost, ice, or snow. Check maintenance records to be sure aircraft is airworthy. An 8-foot step ladder is recommended for daily preflight inspection of the main rotor; however, the main rotor hub may be reached by first opening the right rear seat and stepping on the seat support and then stepping on the deck below the aux fuel tank.

Check general condition of aircraft and verify no leaks, discoloration due to heat, dents, chafing, galling, nicks, corrosion, or cracks. Also verify no fretting at 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 Telatemp's show no unexplained temperature increases during prior flight.

1. Upper Forward Cowl Doors - Right Side

Master switch On
Oil pressure, alternator, governor lights On
Warning light test switches Push to test
Fuel quantity Check gages
Master switch Off
Aux fuel tank quantity Check
Fuel filler cap Tight
Aux fuel tank No leaks
Aux fuel drain Sample
Gascolator drain Sample
Gearbox Oil full, no leaks
Hydraulic system Fluid full, no leaks
Rotor brake Actuation normal
Flex coupling No cracks, nuts tight
Yoke flanges No cracks
Gearbox Telatemp Normal
Control rod ends Free without looseness
Steel tube frame No cracks
All fasteners Tight
Tail rotor control No interference

2. Main Rotor

Do not pull rotor blades down as damage may occur. To lower one blade, push opposite blade up.

Blades	Clean and no damage/cracks
Pitch change boots	No leaks
Main hinge bolts	Cotter pins installed
All rod ends	Free without looseness
Pitch link jam nuts	Tight
Pitch link safety wire	Secure
All fasteners	Tight
Swashplate scissors	No excessive looseness
Upper forward cowl doors	Latched

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

Oil cooler door	Check
V-belt condition	Check
V-belt slack	Check
Sprag clutch	No leaks
Upper bearing	No leaks
Telatemp - upper bearing	Normal
Flex coupling	No cracks, nuts tight
Yoke flanges	No cracks
Steel tube frame	No cracks
Tail rotor control	No interference
Tailcone attachment bolts	Check
Cowl door	Latched