



2.600 12-YEAR INSPECTION AND LIMITED OVERHAUL REQUIREMENTS

If less than 2200 hours time-in-service, but 12 years or more have elapsed since helicopter was new or last overhauled, proceed as follows:

**NOTE**

This Section does not supersede 2200-hour inspection and overhaul requirements contained in Section 3. Section 3 must be complied with based on component service lives regardless of when a 12-year inspection was completed.

2.610 Inspection Procedures

1. Ground check and run up aircraft per Sections 2.205 and 2.210.
2. Remove following components and return to an RHC-authorized component overhaul facility for disassembly & inspection per Section 2.630.

C005-x	Main rotor hub assembly
C005-x	Main rotor blade and spindle assembly
C006-x	Main rotor gearbox and mast assembly
C007-5	Fanshaft and bearing assembly
C008-x	Tail rotor assembly
C017-x	Swashplate assembly
C018-x	Clutch assembly
C021-1	Tail rotor gearbox assembly
C051-x	Belt tension actuator assembly
C792-x	Tachometer
D174-2	Fanwheel assembly
D211-1	Hydraulic Reservoir
D212-1	Hydraulic servo actuators
D278-x	Governor controller assembly

3. Replace following parts with new or overhaul exchange parts:

A120-3	Tail rotor bellcrank
A190-3	V-belts
A785-x	Hoses, air ducts (various dash numbers)
B173-x	Alternator belt
B283-x	Hose assemblies (various dash numbers)
C011-2	Arm assembly
C031-1	Tail rotor pitch control
C041-11	Bearing assembly
C480-1	Swashplate boot
C653-1	Mount
C653-2	Mount
C792-x	Dual Tachometer
D756-x	Bellcrank assembly

4. Remove engine and comply with current revision of Lycoming SI 1009. Flush and pressure test oil cooler. Overhaul or inspect, as required, magnetos, alternator, and carburetor or fuel injection components per appropriate manufacturers' maintenance publications and service bulletins.



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**ROBINSON MAINTENANCE MANUAL**

**MODEL R44**

2.630 Component Inspection Procedures

An RHC-authorized component overhaul facility shall perform noted procedure.

PART NUMBER	DESCRIPTION	NOTES
C005-x	Main rotor hub assembly	Remove bearings. Visually inspect hub. Verify no fretting, corrosion, or obvious damage. Fluorescent penetrant inspect hub. Magnetic particle inspect journals and thrust washers.
C005-x	Main rotor blade & spindle assembly	Replace blades due to possibility of internal corrosion and adhesive deterioration. Replace pitch horn screws, boots, and O-rings. Pitch horn, spindles, and other hardware may be reused after inspection and verifying no damage.
C006-x	Main rotor gearbox and mast assembly	Replace pinion seal and all O-rings (mast tube base, input shaft, end cover, sump, chip detector, chip detector housing, and sight gage). Replace sealed ball bearing atop mast tube. Replace rubber mounts.
C007-5	Fanshaft and bearing assembly	Replace C181-3 bearing assembly with factory new or overhaul exchange part. Inspect fanshaft.
C008-x	Tail rotor assembly	Replace blades due to possibility of internal corrosion and adhesive deterioration. Remove teeter hinge bearings. Inspect hub and hub plates; verify no fretting or corrosion. Fluorescent penetrant inspect hub and hub plates. Replace teeter hinge bearings and blade attach bolts.
C017-x	Swashplate assembly	Clean, inspect, regrease, or replace (as required) swashplate duplex bearings.
C018-x	Clutch assembly	Disassemble, clean, and inspect. Replace all seals, O-rings, and lubricant. Replace C184-2 bearing assembly with factory new or overhaul exchange part.
C051-x	Belt tension actuator assembly	Return to factory for lubrication and calibration check.
D174-2	Fanwheel assembly	Disassemble, clean, inspect. Verify no cracks or corrosion.