



2.700 2200-HOUR OVERHAUL REQUIREMENTS

When helicopter has accumulated 2200 hours time-in-service, proceed as follows:

NOTE

Kit R7351 contains the majority of parts required for a 2200-hour overhaul. Previously replaced airworthy components may remain in service until accumulating 2200 hours or 12 years time-in-service, whichever occurs first, since new or since last overhaul.

2.710 Inspection Procedure

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 overhaul, or replace with new or factory overhaul-exchange parts.

A005-2 or -6	Main Rotor Blade and Spindle Assembly
A005-4	Main Rotor Hub Assembly
A007-3 or -5	Fanshaft and Bearing Assembly
A008-2 or -4	Tail Rotor Assembly
A017-2	Swashplate Assembly
A018-1 or -2	Clutch Assembly
B174-1	Fanwheel Assembly

3. On all aircraft, replace following parts with new or overhaul-exchange parts:

A006-1 or -6	Main Rotor Gearbox and Mast Assembly
A011-2 or D756-2	Throttle Arm Assembly
A021-1 or B021-1	Tail Rotor Gearbox Assembly
A031-1	Tail Rotor Pitch Control
A041-11 or -12	Tail Rotor Driveshaft Damper Bearing Assembly
A051-1	Actuator Assembly
A120-1	Tail Rotor Bellcrank
A121-17	Tail Rotor Push-Pull Tube Assembly
A628-X	Harness & Buckle Assemblies
A792-2 or -4	Dual Tachometer
B224-1	Tail Rotor Drive Shaft
B286-2	Governor Controller
C649-1	Oil Cooler

4. On all aircraft, replace following parts with new parts:

A027-4, A305-x	Engine Cooling System Panels
A306-1 & -2, A308-1,	
A309-1 or -15,	
A310-1 & -2, A312-1,	
A313-1, & A449-1	
A169-x	Muffler with Risers (various dash numbers)
A190-1 or -2	V-Belts
A241-2	Cross Tube, Aft
A258-1	Main Rotor Pitch Link Assemblies
A480-1	Swashplate Boot
A649-1 or -2	Oil Cooler (replace with C649-1)
A636-2 or C636-2	Support



2.710 Inspection Procedure (cont'd)

4. On all aircraft, replace following parts with new parts (cont'd):

A723-1,-2,-5,&-6	Oil Line Assemblies, Out & Return
A780-1,-2,-5,-6,&-7	Battery Cable Assemblies
A785-x	Hoses, Air Ducts (various dash numbers)
A947-1	Flex Plate Assembly
A947-2 or A193-2	Flex Plate Assembly
A947-3 or A193-3	Flex Plate Assembly
B283-x	Hose Assemblies (various dash numbers)
B173-1	Alternator Belt

5. Remove engine, engine cooling panels, fanwheel, scroll, air induction system, carburetor heat system, oil lines, and all hoses. Flush and pressure test oil cooler. Overhaul or inspect, as required, magnetos, alternator, and carburetor per appropriate manufacturers' maintenance publications and service bulletins. _____

6. Remove horizontal and vertical stabilizers. Visually inspect. Verify no cracks, corrosion, loose rivets, dents, or deformation. Dye penetrant inspect suspect areas. Replace or upgrade horizontal stabilizer as required per Section 2.720. _____

7. Remove landing gear assembly and replace as required per Section 2.720. If replacement is not required, completely disassemble, remove paint, and visually inspect. Verify no cracks, corrosion, or deformation. Magnetic particle and fluorescent penetrant inspect. Clean, prime, and paint using Section 1.400-approved materials. _____

8. Remove steel tube frames, replacing those specified in Section 2.720. Remove paint from frames not replaced, and visually inspect. Verify no cracks or corrosion. Magnetic particle inspect. Clean, prime, and paint using Section 1.400-approved materials. _____

9. Remove steel cyclic stick. Remove wiring harness. Remove paint, and visually inspect. Verify no cracks or corrosion. Magnetic particle inspect. Clean, prime, and paint using Section 1.400-approved materials. Reinstall wiring harness. _____

10. Remove A121 push-pull tubes. Remove paint, and visually inspect. Verify no cracks or corrosion. Fluorescent penetrant inspect. Clean, prime, and paint using Section 1.400-approved materials. _____

11. Magnetic particle inspect A650 fittings and A337-1 jackshaft. _____

12. Inspect airframe wiring condition. Verify no corrosion, insulation deterioration, or other damage. _____

13. Inspect and pressure test fuel tank(s) and fuel system per Sections 12.120 and 12.260. _____

14. Comply with latest revision of Lycoming Service Instruction 1009. _____

15. Replace additional parts as required per Section 2.720. _____

16. Assemble aircraft. Rig flight controls and rotor systems per Section 10.100. _____

2.710 Inspection Procedure (cont'd)

- 17. Inspect aircraft per Section 2.400. _____
- 18. Ground check and run up aircraft per Sections 2.205 and 2.210. _____

NOTE

Extended low-power operation with new piston rings may prevent proper piston ring seating.

- 19. Balance fanwheel and tail rotor. _____
- 20. Track and balance main rotor per Section 10.200. _____
- 21. Flight check aircraft per Section 2.220. _____
- 22. Drain, flush, and fill gearboxes per Section 1.100. _____
- 23. Weigh helicopter and calculate CG per section 1.230. Enter new Basic Empty Weight and CG in helicopter's POH Section 6. _____

2.720 Additional Parts Requiring Replacement on Some R22s

In addition to parts from Section 2.710 Step 3, following parts require replacement with new or overhaul exchange parts as noted:

<u>Part Number</u>	<u>Description</u>	<u>Notes</u>
A014-8	Landing Gear Assembly	Replace A014-8 originally installed on R22 S/ N 0002 thru 0487.
A020-2	Upper Frame Assembly	Replace frame S/N 0399 and prior (originally installed on R22 S/N 0002 thru 0311) with subsequent serial number. Note: Frame replacement may require tailcone forward bay replacement.
A044-1	Horizontal Stabilizer	Replace Rev M and prior (originally installed on R22 S/N 0002 thru 0631) with subsequent revision.
A197-1 thru -7	Tail Rotor Drive Shaft Assembly	Originally installed on R22 S/N 0002 thru 0747. Replace with B224-1 driveshaft and appropriate B223 yoke. See R22 IPC.
A493-1	Lower Sheave	Replace Rev H and prior (anodized, originally installed on R22 S/N 0002 thru 0294) with subsequent (steel-sprayed) revision.