

CHAPTER 3

LIFE-LIMITED COMPONENTS

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CHAPTER 3

LIFE-LIMITED COMPONENTS

3.100 Life-Limited Components3.110 Time-In-Service Records

It is the operator's responsibility to maintain a record of time in service for the airframe, engine, and life-limited components. An hourmeter activated by engine oil pressure is standard equipment on earlier R44 helicopters. Later helicopters are equipped with an hourmeter activated by a combination of oil pressure and up collective; the hourmeter will record time only when engine oil pressure exists and the collective is raised. Either hourmeter is an acceptable means of recording time in service (refer to § 1.007).

Calendar time in service for the airframe and engine begins on the date of the original RHC-issued Export (or Standard) Certificate of Airworthiness for the helicopter. For spares without a storage limit specified in § 1.160, calendar time in service begins on the date of the RHC-issued Airworthiness Approval Tag (Authorized Release Certificate) issued with the invoice.

If a component or an inspection is scheduled for hourly and calendar intervals, comply with whichever requirement comes first, then reset interval unless otherwise specified.

When installing a life-limited part or a part with an overhaul requirement, record in the helicopter maintenance record the installation date, part number, part name, serial number, helicopter total time, and time in service accumulated by part since new or since last overhaul, as applicable.

WARNING

Components with mandatory overhaul times or life limits whose time in service is not reliably documented cannot be considered airworthy and must be removed from service.

3.120 Fatigue Life-Limited Parts

The Airworthiness Limitations section lists the mandatory replacement schedule for fatigue life-limited parts.

If a part is fatigue life-limited or has a mandatory overhaul requirement and is interchanged between an R44 and an R66 helicopter, and if the part life-limit or overhaul requirement is different between an R44 and an R66 helicopter, the shorter life-limit or overhaul requirement must be used. If a part is fatigue life-limited or has a mandatory overhaul requirement, and the accumulated cycles and/or time-in-service are known but the helicopter type is unknown, the shorter life-limit or overhaul requirement must be used.

Listed items must be removed from the helicopter at the specified intervals and permanently retired from service by destroying or damaging each part so it cannot inadvertently be returned to service.

3.200 Type Certificate Data Sheet (TCDS)

| TCDS H11NM is available at FAA Dynamic Regulatory System website: <https://drs.faa.gov>.

3.300 Airworthiness Limitations

The Airworthiness Limitations section is FAA approved and specifies inspections and other maintenance required under §§ 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

There are two lists for fatigue life-limited parts. List A is applicable to all R44 and R44 II helicopters, including the two-seat R44 Cadet configuration (R44 serial numbers 30001 through 39999). List B provides increased service lives for certain earlier revision parts which may be used for the R44 Cadet.

A. R44 and R44 II Fatigue Life-Limited Parts

<u>Part Number</u>	<u>Description</u>	<u>Maximum Service Life</u>
A756-6 ¹	Cyclic Grip	4400 Hours
C016-2 ¹ & -5 ¹	Main Rotor Blade	2200 Hours or 12 years ²
C016-7	Main Rotor Blade, Rev AJ & Prior	2200 Hours or 12 years ²
C016-7	Main Rotor Blade, Rev AK & Subsequent	2500 Hours or 15 years ²
C020-1 & -2	Upper Frame, Rev W & Prior	2200 Hours
C020-1 & -2	Upper Frame, Rev X & Subsequent	2500 Hours
C023-1	Tailcone Assembly, Rev M & Prior	2000 Hours
C023-1	Tailcone Assembly, Rev N thru Rev AV	4400 Hours
C023-2 & -3	Tailcone Assembly	4400 Hours
C023-4, -14, & -15	Tailcone Assembly, Rev AV & Prior	4400 Hours
C023-1, -4, -14, & -15	Tailcone Assembly, Rev AW & Subsequent	5000 Hours
C029-1, -2, & -3	Tail Rotor Blade, Rev Q & Prior	2200 Hours or 12 years ²
C029-3	Tail Rotor Blade, Rev R & Subsequent	2500 Hours or 15 years ²
C030-1	Tail Rotor Hub	2200 Hours
C044-1	Horizontal Stabilizer, Rev L & Prior	2200 Hours ³
C044-1	Horizontal Stabilizer, Rev M & Subsequent	4400 Hours ³
C146-1 & -5	Gear Set, Main Gearbox	2200 Hours
C146-2	Pinion, Main Gearbox, Rev Q & Prior	2200 Hours
C146-2	Pinion, Main Gearbox, Rev R & Subsequent	2500 Hours
C154-1	Main Rotor Hub, Rev H & Prior	2200 Hours ³
C154-1	Main Rotor Hub, Rev I & Subsequent	2500 Hours ³
C158-1	Main Rotor Spindle, Rev L & Prior	2200 Hours ³
C158-1	Main Rotor Spindle, Rev M & Subsequent	2500 Hours ³
C196-1	Tail Rotor Drive Shaft	2200 Hours
C198-1 & -2	Lower Swashplate	4400 Hours
C251-1	Main Rotor Shaft	4400 Hours
C263-1	Sump, Main Gearbox	2200 Hours
C263-2	Sump, Main Gearbox, Rev H & Prior	2200 Hours
C263-2	Sump, Main Gearbox, Rev I & Subsequent	2500 Hours

¹ Obsolete due to FAA AD 2014-23-16.

² Whichever limit occurs first. Calendar time starts on date of original RHC-issued Airworthiness Approval.

³ Maximum service life is 2000 hours if part is, or ever has been, installed on an R66 helicopter.

⁴ Maximum service life is 4000 hours if part is, or ever has been, installed on an R66 helicopter.

3.300 Airworthiness Limitations (continued)

A. R44 and R44 II Fatigue Life-Limited Parts (continued)

<u>Part Number</u>	<u>Description</u>	<u>Maximum Service Life</u>
C264-1	Housing, Main Gearbox	2200 Hours
C264-2	Housing, Main Gearbox, Rev K & Prior	2200 Hours
C264-2	Housing, Main Gearbox, Rev L & Subsequent	2500 Hours
C319-3 ¹	Cyclic Torque Tube	4400 Hours
C320-1 ¹	Cyclic Stick	4400 Hours
C337-1 ¹	Jackshaft	4400 Hours
C545-1	Gear Set, Tail Gearbox	2200 Hours ³
C545-2	Pinion, Tail Gearbox, Rev L & Prior	2200 Hours ³
C545-2	Pinion, Tail Gearbox, Rev M & Subsequent	2500 Hours ³
C647-12	Bearing Set, C017-6 Swashplate, Rev AG & Prior	2200 Hours ³
C647-12	Bearing Set, C017-6 Swashplate, Rev AH & Subsequent	2500 Hours ³
D062-2	Tail Rotor Hub	2200 Hours
D079-1	Tail Rotor Guard, Rev P & Prior	2200 Hours ³
D079-1	Tail Rotor Guard, Rev Q & Subsequent	5000 Hours ⁴
D196-1	Tail Rotor Drive Shaft, Rev H & Prior	4400 Hours ³
D196-1	Tail Rotor Drive Shaft, Rev I & Subsequent	5000 Hours ⁴
F050-2	Horizontal Stabilizer	5000 Hours ⁴
G062-2	Tail Rotor Hub, Rev E & Prior	2200 Hours ³
G062-2	Tail Rotor Hub, Rev F & Subsequent	2500 Hours ³

¹ Obsolete due to FAA AD 2014-23-16.

² Whichever limit occurs first. Calendar time starts on date of original RHC-issued Airworthiness Approval.

³ Maximum service life is 2000 hours if part is, or ever has been, installed on an R66 helicopter.

⁴ Maximum service life is 4000 hours if part is, or ever has been, installed on an R66 helicopter.

B. R44 Cadet Fatigue Life-Limited Parts

The following service lives may be used for parts installed on R44 helicopter serial numbers 30001 through 39999. The service lives from List A must be used if the part is, or ever has been, installed on any R44 helicopter other than serial numbers 30001 through 39999.

<u>Part Number</u>	<u>Description</u>	<u>Maximum Service Life</u>
C016-7	Main Rotor Blade, Rev AF thru Rev AJ	2400 Hours or 12 years ¹
C020-1 & -2	Upper Frame, Rev W & Prior	2400 Hours
C023-1, 14, & -15	Tailcone Assembly, Rev AQ thru Rev AV	4800 Hours
C029-3	Tail Rotor Blade, Rev Q & Prior	2400 Hours or 12 years ¹
C044-1	Horizontal Stabilizer, Rev P & Subsequent	4800 Hours ²
C146-2	Pinion, Main Gearbox, Rev Q & Prior	2400 Hours
C146-5	Gear Set, Main Gearbox	2400 Hours

¹ Whichever limit occurs first. Calendar time starts on date of original RHC-issued Airworthiness Approval.

² Maximum service life is 2000 hours if part is, or ever has been, installed on an R66 helicopter.

3.300 Airworthiness Limitations (continued)

B. R44 Cadet Fatigue Life-Limited Parts (continued)

<u>Part Number</u>	<u>Description</u>	<u>Maximum Service Life</u>
C154-1	Main Rotor Hub, Rev H & Prior	2400 Hours ²
C158-1	Main Rotor Spindle, Rev L & Prior	2400 Hours ²
C263-2	Sump, Main Gearbox, Rev H & Prior	2400 Hours
C264-2	Housing, Main Gearbox, Rev K & Prior	2400 Hours
C545-1	Gear Set, Tail Gearbox	2400 Hours ²
C545-2	Pinion, Tail Gearbox, Rev L & Prior	2400 Hours ²
C647-12	Bearing Set, C017-6 Swashplate, Rev AG & Prior	2400 Hours ²
D079-1	Tail Rotor Guard, Rev P & Prior	2400 Hours ²
D196-1	Tail Rotor Drive Shaft, Rev H & Prior	4800 Hours ²
G062-2	Tail Rotor Hub, Rev E & Prior	2400 Hours ²

¹ Whichever limit occurs first. Calendar time starts on date of original RHC-issued Airworthiness Approval.

² Maximum service life is 2000 hours if part is, or ever has been, installed on an R66 helicopter.

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FAA Approved: Pages 3.3, 3.4, and 3.5 constitute the Airworthiness Limitations Section in its entirety, are considered segregated from the rest of the document, and set forth the FAA-approved mandatory replacement times for fatigue life-limited parts.

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