



R44 MAINTENANCE MANUAL and INSTRUCTIONS FOR CONTINUED AIRWORTHINESS RTR 460 VOLUME I

Production Certificate Number 424WE

Type Certificate Number H11NM



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PUBLICATIONS

Viewing RHC Maintenance Manuals (MMs) and Illustrated Parts Catalogs (IPCs) online at <https://robinsonheli.com/publications> is recommended to ensure use of current data. Viewing MMs and IPCs offline via paper or digital download requires verification that the data is current. Refer to the online MM or IPC Revision Log for the list of current pages.

SUBSCRIPTION ORDER AND RENEWAL FORMS

Subscription order and renewal forms are located at <https://robinsonheli.com>.

WARRANTY INFORMATION

Helicopter and parts warranty information is located at <https://robinsonheli.com>.

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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.

Approved By: ERIC D SCHRIEBER Digitally signed by ERIC D SCHRIEBER
Date: 2026.10.28 09:01:44 -07'00' Date: 10/28/26
for Manager, Federal Aviation Administration
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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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REVISION LOG

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The R44 Maintenance Manual (MM) list of effective pages and effective dates are given below. If a previously issued page is not listed below, it is no longer an effective page and must be discarded. The issue or revision date is in bold at the top of each revision log page.

Please visit <https://robinsonheli.com> to verify the issue or revision date is current.

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14.1	AUG 2019	14.20P	JUN 2014	14.55	AUG 2019
14.2	AUG 2019	14.20Q	JUN 2014	14.56	AUG 2019
14.3	AUG 2019	14.20R	JUN 2014	14.57	AUG 2019
14.3A	AUG 2019	14.21	JUL 2021	14.58	AUG 2019
14.3B	JUN 2014	14.22	JUL 2021	14.59	AUG 2019
14.3C	JUN 2014	14.23	JUL 2021	14.60	AUG 2019
14.3D	JUN 2014	14.24	JUL 2021	14.61	AUG 2019
14.3E	JUN 2014	14.25	AUG 2019	14.62	AUG 2019
14.3F	JUN 2014	14.26	AUG 2019	14.62A	AUG 2022
14.3G	JUN 2014	14.27	11 Jun 93	14.62B	AUG 2022
14.3H	JUN 2014	14.28	11 Jun 93	14.63	AUG 2022
14.3I	JUN 2014	14.29	15 Jun 98	14.64	AUG 2022
14.17	OCT 2006	14.30	11 Jun 93	14.65	AUG 2019
14.17A	OCT 2006	14.31	11 Jun 93	14.66	AUG 2019
14.17B	OCT 2006	14.32	11 Jun 93	14.67	AUG 2019
14.18	OCT 2006	14.33	11 Jun 93	14.68	AUG 2019
14.18A	OCT 2006	14.34	11 Jun 93	14.69	AUG 2019
14.18B	OCT 2006	14.35	11 Jun 93	14.70	AUG 2019
14.18C	JUL 2008	14.36	12 Dec 94	14.71	AUG 2019
14.18D	OCT 2006	14.37	11 Jun 93	14.72	AUG 2019
14.19	JUL 2004	14.38	11 Jun 93	14.73	AUG 2019
14.19A	JUL 2004	14.39	1 Jun 97	14.74	AUG 2019
14.19B	JUL 2004	14.40	1 Jun 97	14.75	AUG 2019
14.20	11 Jun 93	14.40A	OCT 2006	14.76	AUG 2019
14.20A	18 MAR 99	14.40B	OCT 2006	14.77	JAN 2021
14.20B	15 Jun 98	14.41	FEB 2024	14.78	JAN 2021
14.20C	18 MAR 99	14.42	FEB 2024		
14.20D	15 Jun 98	14.43	AUG 2019	15.i	DEC 2021
14.20E	JUL 2004	14.44	AUG 2019	15.ii	DEC 2021
14.20F	18 MAR 99	14.45	AUG 2019	15.1	DEC 2021
14.20G	JUL 2004	14.46	AUG 2019	15.2	DEC 2021
14.20H	JUL 2004	14.47	AUG 2019	15.3	JAN 2021
14.20I	DEC 2011	14.48	AUG 2019	15.4	JAN 2021
14.20J	DEC 2011	14.49	AUG 2019	15.5	JAN 2021
14.20K	JUN 2014	14.50	AUG 2019	15.6	JAN 2021
14.20L	JUN 2014	14.51	AUG 2019	15.7	JAN 2021
14.20M	JUN 2014	14.52	AUG 2019	15.8	JAN 2021
14.20N	JUN 2014	14.53	AUG 2019	15.9	JAN 2021

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15.11	JAN 2021	18.11	FEB 2024	23.15	DEC 2021
15.12	JAN 2021	18.12	FEB 2024	23.16	DEC 2021
15.13	APR 2026			23.17	DEC 2021
15.14	APR 2026	19.i	AUG 2019	23.18	DEC 2021
15.15	DEC 2021	19.ii	AUG 2019	23.19	DEC 2021
15.16	DEC 2021	19.1	AUG 2019	23.20	DEC 2021
		19.2	AUG 2019	23.21	DEC 2021
16.i	FEB 2024			23.22	DEC 2021
16.ii	FEB 2024	20.i	AUG 2019	23.23	DEC 2021
16.1	FEB 2024	20.ii	AUG 2019	23.24	DEC 2021
16.2	FEB 2024	20.1	AUG 2019	23.25	DEC 2021
16.3	FEB 2024	20.2	AUG 2019	23.26	DEC 2021
16.4	FEB 2024			23.27	DEC 2021
16.5	FEB 2024	21.i	AUG 2019	23.28	DEC 2021
16.6	FEB 2024	21.ii	AUG 2019	23.29	SEP 2023
16.7	FEB 2024	21.1	AUG 2019	23.30	SEP 2023
16.8	FEB 2024	21.2	AUG 2019	23.31	SEP 2023
				23.32	SEP 2023
17.i	FEB 2024	22.i	AUG 2019	23.33	SEP 2023
17.ii	FEB 2024	22.ii	AUG 2019	23.34	SEP 2023
17.1	FEB 2024	22.1	AUG 2019	23.35	DEC 2021
17.2	FEB 2024	22.2	AUG 2019	23.36	DEC 2021
17.3	FEB 2024			23.37	FEB 2024
17.4	FEB 2024	23.i	SEP 2023	23.38	FEB 2024
17.5	FEB 2024	23.ii	SEP 2023	23.39	FEB 2024
17.6	FEB 2024	23.1	DEC 2021	23.40	FEB 2024
		23.2	DEC 2021	23.41	DEC 2021
18.i	FEB 2024	23.3	DEC 2021	23.42	DEC 2021
18.ii	FEB 2024	23.4	DEC 2021	23.43	DEC 2021
18.1	FEB 2024	23.5	AUG 2022	23.44	DEC 2021
18.2	FEB 2024	23.6	AUG 2022	23.45	FEB 2024
18.3	FEB 2024	23.7	SEP 2023	23.46	FEB 2024
18.4	FEB 2024	23.8	SEP 2023		
18.5	MAR 2024	23.9	AUG 2025	24.i	SEP 2023
18.6	MAR 2024	23.10	AUG 2025	24.ii	SEP 2023
18.7	MAR 2024	23.11	AUG 2025	24.1	AUG 2022
18.8	MAR 2024	23.12	AUG 2025	24.2	AUG 2022
18.9	FEB 2024	23.13	APR 2026	24.3	AUG 2022

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24.5	AUG 2022	27.11	SEP 2023	28.25	DEC 2021
24.6	AUG 2022	27.12	SEP 2023	28.26	DEC 2021
24.7	AUG 2022	27.13	SEP 2023	28.27	DEC 2021
24.8	AUG 2022	27.14	SEP 2023	28.28	DEC 2021
24.9	AUG 2022	27.15	SEP 2023	28.29	DEC 2021
24.10	AUG 2022	27.16	SEP 2023	28.30	DEC 2021
24.11	SEP 2023	27.17	SEP 2023	28.31	DEC 2021
24.12	SEP 2023	27.18	SEP 2023	28.32	DEC 2021
24.13	SEP 2023	27.19	SEP 2023	28.33	DEC 2021
24.14	SEP 2023	27.20	SEP 2023	28.34	DEC 2021
24.15	SEP 2023	27.21	SEP 2023	28.35	DEC 2021
24.16	SEP 2023	27.22	SEP 2023	28.36	DEC 2021
25.i	AUG 2019	28.i	AUG 2025	28.37	DEC 2021
25.ii	AUG 2019	28.ii	AUG 2025	28.38	DEC 2021
25.1	AUG 2019	28.1	DEC 2021	28.39	DEC 2021
25.2	AUG 2019	28.2	DEC 2021	28.40	DEC 2021
26.i	FEB 2024	28.3	DEC 2021	28.41	AUG 2025
26.ii	FEB 2024	28.4	DEC 2021	28.42	AUG 2025
26.1	FEB 2024	28.5	DEC 2021	28.43	AUG 2025
26.2	FEB 2024	28.6	DEC 2021	28.44	AUG 2025
26.3	FEB 2024	28.7	DEC 2021	28.45	AUG 2025
26.4	FEB 2024	28.8	DEC 2021	28.46	AUG 2025
26.5	FEB 2024	28.9	DEC 2021	29.i	AUG 2019
26.6	FEB 2024	28.10	DEC 2021	29.ii	AUG 2019
27.i	SEP 2023	28.11	DEC 2021	29.1	AUG 2019
27.ii	SEP 2023	28.12	DEC 2021	29.2	AUG 2019
27.1	SEP 2023	28.13	DEC 2021	30.i	AUG 2025
27.2	SEP 2023	28.14	DEC 2021	30.ii	AUG 2025
27.3	SEP 2023	28.15	DEC 2021	30.1	AUG 2025
27.4	SEP 2023	28.16	DEC 2021	30.2	AUG 2025
27.5	SEP 2023	28.17	DEC 2021	30.3	AUG 2025
27.6	SEP 2023	28.18	DEC 2021	30.4	AUG 2025
27.7	SEP 2023	28.19	DEC 2021	30.5	AUG 2025
27.8	SEP 2023	28.20	DEC 2021	30.6	AUG 2025
27.9	SEP 2023	28.21	DEC 2021	30.7	AUG 2025
		28.22	DEC 2021	30.8	AUG 2025
		28.23	DEC 2021		

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30.10	AUG 2025	35.2	AUG 2019	37.17	DEC 2021
30.11	DEC 2021			37.18	DEC 2021
30.12	DEC 2021	36.i	AUG 2019	37.19	AUG 2019
30.13	DEC 2021	36.ii	AUG 2019	37.20	AUG 2019
30.14	DEC 2021	36.1	AUG 2019	37.21	AUG 2019
30.15	DEC 2021	36.2	AUG 2019	37.22	AUG 2019
30.16	DEC 2021	36.3	SEP 2023	37.23	AUG 2019
30.17	DEC 2021	36.4	SEP 2023	37.24	AUG 2019
30.18	DEC 2021	36.5	SEP 2023	37.25	AUG 2019
30.19	DEC 2021	36.6	SEP 2023	37.26	AUG 2019
30.20	DEC 2021	36.7	JAN 2021	37.27	AUG 2019
30.21	DEC 2021	36.8	JAN 2021	37.28	AUG 2019
30.22	DEC 2021	36.9	AUG 2019	37.29	AUG 2019
30.23	DEC 2021	36.10	AUG 2019	37.30	AUG 2019
30.24	DEC 2021			37.31	AUG 2019
		37.i	AUG 2025	37.32	AUG 2019
31.i	AUG 2019	37.ii	AUG 2025	37.33	AUG 2025
31.ii	AUG 2019	37.1	JAN 2021	37.34	AUG 2025
31.1	AUG 2019	37.1A	JAN 2021	37.35	AUG 2025
31.2	AUG 2019	37.1B	SEP 2023	37.36	AUG 2025
		37.2	SEP 2023	37.37	AUG 2025
32.i	AUG 2019	37.2A	SEP 2023	37.38	AUG 2025
32.ii	AUG 2019	37.2B	SEP 2023		
32.1	AUG 2019	37.2C	AUG 2022	38.i	AUG 2019
32.2	AUG 2019	37.2D	AUG 2022	38.ii	AUG 2019
		37.3	AUG 2019	38.1	AUG 2019
33.i	AUG 2019	37.4	AUG 2019	38.2	AUG 2019
33.ii	AUG 2019	37.5	AUG 2019	38.3	AUG 2019
33.1	AUG 2019	37.6	AUG 2019	38.4	AUG 2019
33.2	AUG 2019	37.7	DEC 2021	38.5	AUG 2019
		37.8	DEC 2021	38.6	AUG 2019
34.i	AUG 2019	37.9	JAN 2021	38.7	AUG 2019
34.ii	AUG 2019	37.10	JAN 2021	38.8	AUG 2019
34.1	AUG 2019	37.11	AUG 2019	38.9	AUG 2019
34.2	AUG 2019	37.12	AUG 2019	38.10	AUG 2019
		37.13	AUG 2019	38.11	AUG 2019
35.i	AUG 2019	37.14	AUG 2019	38.12	AUG 2019
35.ii	AUG 2019	37.15	AUG 2019	38.13	AUG 2019

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38.16	AUG 2019		
38.17	AUG 2019		
38.18	AUG 2019		
38.19	AUG 2019		
38.20	AUG 2019		
38.21	AUG 2019		
38.22	AUG 2019		
38.23	AUG 2019		
38.24	AUG 2019		
38.25	AUG 2019		
38.26	AUG 2019		
38.27	AUG 2019		
38.28	AUG 2019		
38.29	AUG 2019		
38.30	AUG 2019		
39.i	AUG 2019		
39.ii	AUG 2019		
39.1	AUG 2019		
39.2	AUG 2019		
40.i	AUG 2019		
40.ii	AUG 2019		
40.1	AUG 2019		
40.2	AUG 2019		
41.i	DEC 2021		
41.ii	DEC 2021		
41.1	OCT 2026		
41.2	OCT 2026		
41.3	OCT 2026		
41.4	OCT 2026		
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41.6	OCT 2026		
41.7	OCT 2026		
41.8	OCT 2026		
41.9	OCT 2026		