

Bell Helicopter **TEXTRON**

A Subsidiary of Textron, Inc.

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INFORMATION LETTER 47-00-7

TO: All Owners/Operators of Bell 47 Series Helicopters.

SUBJECT: RECOMMENDED AIRWORTHINESS LIMITATIONS

Numerous changes to the original Bell Helicopter 47 series airworthiness limitations schedule have been distributed by Bell Helicopter Service Instructions, Alert Service Bulletins, Technical Bulletins, or other Bell publications.

This Information Letter is issued to provide one convenient reference document for current Bell Helicopter recommended airworthiness limitations for the listed components. Operators should review any applicable notes for additional airworthiness limitations and information.

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Table 1 – Airworthiness Limitations for 47B, B3, D, and D1 (Sheet 1 of 2)

Nomenclature	Part Number	Airworthiness Life (1)
MAIN ROTOR SYSTEM		
Main Rotor Blade (Wood)	47-110-120-30, /-50	On Condition
Main Rotor Gimbal Ring	47-120-014-1 through /-21	(4)
Main Rotor Gimbal Ring	47-120-014-23	4800 hrs
Main Rotor Grip	47-120-135-2, /-3 and /-5	1200 hrs (5)
Main Rotor Hub Core	47-120-117-1	(7)
Main Rotor Hub Pillow Block	47-120-111-1	(30)
Main Rotor Yoke (Al Alloy)	(40)	300 hrs (8)
Main Rotor Yoke (Al Alloy)	(40)	600 hrs (9)
Main Rotor Yoke (Steel)	47-120-177-1	3600 hrs (42 & 43)
Main Rotor Drag Brace	47-110-133-1	(10)
Main Rotor Drag Brace Fitting	47-110-145-2	(11)
Main Rotor Blade Equalizer Horn	47-120-027-2	(11)
Main Rotor Mast	47-130-100-1	50 hrs (33)
FLIGHT CONTROLS		
Main Rotor Flight Control Bolts	(40)	(23)
Collective Pitch Sleeve Yoke	47-150-122-1	100 hrs (37)
Collective Pitch Sleeve Yoke Lock	47-150-137-1	100 hrs (32)
Collective Pitch Link Rod End Bearing	RE4F7/RE4FL7	(34)
Pitch Change Link	47-641-032-1	(12 & 13)
Delta Hinge Bolt	47-641-031-1	(13)
Delta Hinge Bearing	KP5A OR K5A	(13)
Pitch Change Bearing	47-641-131-1	(13)
Pitch Change Bearing	47-641-146 (R-4-AF4)	(13)
Pitch Change Bearing	S1RP	(13)
Pitch Change Bearing	7R4AX1C	(13)
TAIL ROTOR SYSTEM		
Rotor Shaft	47-645-028-(ALL)	(13 & 15)
Rotor Shaft	47-645-051-(ALL)	(13 & 15)
Rotor Shaft	47-645-077-(ALL)	(13 & 15)
Tail Rotor Yoke	47-641-025-1	(13)
Tail Rotor Yoke	47-641-057-1	(13)
Tail Rotor Yoke	47-641-025-7, /-9	(13)
Tail Rotor Yoke	47-641-057-7	(13)
Tail Rotor Yoke	47-641-057-9	(13 & 16)
Tail Rotor Yoke	47-641-126-5	2500 hrs
Tail Rotor Blade	47-642-102-(ALL)	(13, 18 & 28)
Tail Rotor Blade	47-642-117-1, /-105	2500 hrs

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Table 1 – Airworthiness Limitations for 47B, B3, D, and D1 (Sheet 2)

Nomenclature	Part Number	Airworthiness Life (1)
TAIL ROTOR SYSTEM (cont'd)		
Tail Rotor Hub Retention Bolt	47-641-026-1	(13 & 35)
Tail Rotor Hub Retention Bolt	47-641-194-1	(13)
Tail Rotor Hub Retention Bolt	47-641-052-1	(13 & 31)
Tail Rotor Hub Retention Bolt	47-641-052-3	(13)
Tail Rotor Drive Shaft	47-644-172-3	(21)
Tail Rotor Drive Shaft	47-644-180-1, /-5	(21)
Tail Rotor Drive Shaft	47-644-186-1	(21)
Tail Rotor Drive Shaft	47-644-187-1, /-5 & /-11	(21)
Tail Rotor Drive Shaft	47-644-214-1	(21)
Tail Rotor Universal Joint And Shaft	47-644-124-1	100 hrs (36)
POWERPLANT		
Engine Mount	47-612-111-1, /-5	600 hrs (24)
Engine Mount	47-612-131-1	2500 hrs
Engine Mount	47-612-135-1	2500 hrs
FAN BELT (Matched Sets)	47-661-026-1	100 hrs
FAN BELT (Matched Sets)	47-661-028-1	100 hrs
FAN BELT (Matched Sets)	47-661-041-1 through /-7	600 hrs
FAN BELT (Matched Sets)	47-661-041-9	900 hrs/5 year shelf life (44)
TRANSMISSION		
Fan Drive Bearing	47-620-605-1	(25)
Shear Screw	47-620-485-1	600 hrs (26)
Shear Screw	47-620-485-9	1200 hrs
Ball Bearings, Spider Pinions	(40)	50 or 100 hrs (27)

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Table 2 – Airworthiness Limitations for 47G (Sheet 1 of 2)

Nomenclature	Part Number	Airworthiness Life (1)
MAIN ROTOR SYSTEM		
Main Rotor Blade (Wood)	47-110-120-30, /-50	On Condition
Main Rotor Gimbal Ring	47-120-014-1 through /-21	(4)
Main Rotor Gimbal Ring	47-120-014-23	4800 hrs
Main Rotor Grip	47-120-135-2, /-3 & /-5	1200 hrs (5)
Main Rotor Hub Core	47-120-117-1	(7)
Main Rotor Yoke (Steel)	47-120-177-1	3600 hrs (42 & 43)
FLIGHT CONTROLS		
Main Rotor Flight Control Bolts	(40)	(23)
Collective Pitch Link Rod End Bearing	RE4F7/RE4FL7	(34)
Pitch Change Link	47-641-032-1	(13)
Delta Hinge Bolt	47-641-031-1	(13)
Delta Hinge Bearing	KP5A	(13)
Pitch Change Bearing	47-641-131-1	(13)
Pitch Change Bearing	47-641-146 (R-4-AF4)	(13)
Pitch Change Bearing	S1RP	(13)
Pitch Change Bearing	7R4AX1C	(13)
TAIL ROTOR SYSTEM		
Tail Rotor Yoke	47-641-025-1	(13)
Tail Rotor Yoke	47-641-057-1	(13)
Tail Rotor Yoke	47-641-025-7, /-9	(13)
Tail Rotor Yoke	47-641-057-7	(13)
Tail Rotor Yoke	47-641-057-9	(13 & 16)
Tail Rotor Yoke	47-641-126-5	2500 hrs
Tail Rotor Blade	47-642-102-(ALL)	(13, 18 & 28)
Tail Rotor Blade	47-642-117-1, /-105	2500 hrs
Tail Rotor Hub Retention Bolt	47-641-052-1	(13, 31)
Tail Rotor Hub Retention Bolt	47-641-052-3, /-5	(13, 14)
Tail Rotor Hub Retention Bolt	47-641-194-1	(13)
Tail Rotor Drive Shaft	47-644-172-3	(21)
Tail Rotor Drive Shaft	47-644-180-1, /-5	(21)
Tail Rotor Drive Shaft	47-644-186-1	(21)
Tail Rotor Drive Shaft	47-644-187-1, /-5 & /-11	(21)
Tail Rotor Drive Shaft	47-644-214-1	(21)
POWERPLANT		
Engine Mount	47-612-135-1	2500 hrs
Fan Belts (Matched Sets)	47-661-041-1 through /-7	600 hrs
Fan Belts (Matched Sets)	47-661-041-9	900 hrs – 5 year shelf life (44)
Fan Drive Bearing	47-620-605-1	(25)

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Table 2 – Airworthiness Limitations for 47G (Sheet 2)

Nomenclature	Part Number	Airworthiness Life (1)
TRANSMISSION		
Shear Screw	47-620-485-1	600 hrs (26)
Shear Screw	47-620-485-9	1200 hrs

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Table 3 – Airworthiness Limitations for 47G-2 (Sheet 1 of 2)

Nomenclature	Part Number	Airworthiness Life (1)
MAIN ROTOR SYSTEM		
Main Rotor Blade (Wood)	47-110-120-30, /-50	On Condition
Main Rotor Blade	47-110-250-9, /-13 & /-17	3000 hrs (3)
Main Rotor Blade	47-110-250-15, /-19	3000 hrs
Main Rotor Drag Brace	47-110-372-1	2500 hrs (49)
Main Rotor Gimbal Ring	47-120-014-1 through /-21	(4)
Main Rotor Gimbal Ring	47-120-014-23	4800 hrs
Main Rotor Grip	47-120-135-2, /-3 & /-5	1200 hrs (5)
Main Rotor Grip	47-120-252-1, /-7 & /-11	1200 hrs (5 & 6)
Main Rotor Grip	47-120-252-5	300 hrs (5)
Main Rotor Hub Core	47-120-117-1	(7)
Main Rotor Yoke (Al Alloy)	(40)	600 hrs (9)
Main Rotor Yoke (Steel)	47-120-177-1	3600 hrs (42 & 43)
FLIGHT CONTROLS		
Main Rotor Flight Control Bolts	(40)	(23)
Collective Pitch Link Rod End Bearing	RE4F7/RE4FL7	(34)
Collective Sleeve	47-150-117-13, /-21	5000 hrs (53)
Pitch Change Bearing	47-641-146 (R-4-AF4)	(13)
Pitch Change Bearing	S1RP	(13)
Pitch Change Bearing	7R4AX1C	(13)
Pitch Change Bearing	47-641-131-1	(13)
TAIL ROTOR SYSTEM		
Tail Rotor Yoke	47-641-025-1	(13)
Tail Rotor Yoke	47-641-057-1	(13)
Tail Rotor Yoke	47-641-025-7, /-9	(13)
Tail Rotor Yoke	47-641-057-7	(13)
Tail Rotor Yoke	47-641-057-9	(13 & 16)
Tail Rotor Yoke	47-641-126-5	2500 hrs
Tail Rotor Blade	47-642-102-(ALL)	(13, 18 & 28)
Tail Rotor Blade	47-642-117-1, /-105	2500 hrs
Tail Rotor Hub Retention Bolt	47-641-052-1	(13, 31)
Tail Rotor Hub Retention Bolt	47-641-052-3, /-5	(13, 14)
Tail Rotor Hub Retention Bolt	47-641-194-1	(13)
Tail Rotor Drive Shaft	47-644-172-3	(21)
Tail Rotor Drive Shaft	47-644-180-1, /-5	(21)
Tail Rotor Drive Shaft	47-644-186-1	(21)
Tail Rotor Drive Shaft	47-644-187-1, /-5 & /-11	(21)
Tail Rotor Drive Shaft	47-644-214-1	(21)
Tail Rotor Drive Shaft	47-644-234-3	(22)

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Table 3 – Airworthiness Limitations for 47G-2 (Sheet 2)

Nomenclature	Part Number	Airworthiness Life (1)
POWERPLANT		
Engine Mount	47-612-135-1	2500 hrs
Engine Mount	47-612-171-(ALL)	2500 hrs
Fan Belt (Matched Sets)	47-661-041-1 through /-7	600 hrs
Fan Belt (Matched Sets)	47-661-041-9	900 hrs - 5 year shelf life (44)
Fan Drive Bearing	47-620-605-1	(25)
TRANSMISSION		
Shear Screw	47-620-485-1	600 hrs (26)
Shear Screw	47-620-485-9	1200 hrs

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Table 4 – Airworthiness Limitations for 47G-2A & 47G-2A-1 (Sheet 1 of 1)

Nomenclature	Part Number	Airworthiness Life (1)
MAIN ROTOR SYSTEM		
Main Rotor Blade	47-110-250-11	5000 hrs
Main Rotor Blade	47-110-250-21	5000 hrs
Main Rotor Blade	74-110-250-23	5000 hrs
Main Rotor Drag Brace	47-110-372-1	2500 hrs
Main Rotor Gimbal Ring	47-120-014-1 through /-21	(4)
Main Rotor Gimbal Ring	47-120-014-23	4800 hrs
Main Rotor Grip	47-120-252-1, /-7 &/-11	1200 hrs (5 & 6)
Main Rotor Grip	47-120-252-5	300 hrs (5)
Main Rotor Hub Core	47-120-117-1	(7)
Main Rotor Yoke (Steel)	47-120-177-1	5000 hrs (42 & 43)
Main Rotor Pitch Horn	47-120-126-5	5000 hrs
FLIGHT CONTROLS		
Main Rotor Flight Control Bolts	(40)	(23)
Collective Sleeve	47-150-117-13, /-21	5000 hrs
Scissors Assembly	47-150-249-5, /-7	5000 hrs
Tail Rotor Pitch Change Shaft Bearing	47-640-069-1, /-3	(13)
TAIL ROTOR SYSTEM		
Tail Rotor Yoke	47-641-104-5	(13 & 17)
Tail Rotor Yoke	47-641-126-5	2500 hrs
Tail Rotor Blade	47-642-102-(ALL)	(13, 18 & 28)
Tail Rotor Blade	47-642-117-1, /-105	2500 hrs
Tail Rotor Drive Shaft	47-644-172-3	(21)
Tail Rotor Drive Shaft	47-644-180-1, /-5	(21)
Tail Rotor Drive Shaft	47-644-186-1	(21)
Tail Rotor Drive Shaft	47-644-187-1, /-5 &/-11	(21)
Tail Rotor Drive Shaft	47-644-214-1	(21)
POWERPLANT		
Engine Mount	47-612-171-(ALL)	2500 hrs
Fan Belt (Matched Sets)	47-661-041-1 through /-7	600 hrs
Fan Belt (Matched Sets)	47-661-041-9	900 hrs - 5 year shelf life (44)
TRANSMISSION		
Shear Screw	47-620-485-9	1200 hrs

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Table 5 – Airworthiness Limitations for 47G-3 (Sheet 1 of 1)

Nomenclature	Part Number	Airworthiness Life (1)
MAIN ROTOR SYSTEM		
Main Rotor Blade	47-110-250-11	5000 hrs
Main Rotor Blade	47-110-250-21	5000 hrs
Main Rotor Drag Brace	47-110-372-1	2500 hrs
Main Rotor Pitch Horn	47-120-126-5	5000 hrs
Main Rotor Gimbal Ring	47-120-014-1 through /-21	(4)
Main Rotor Gimbal Ring	47-120-014-23	4800 hrs
Main Rotor Grip	47-120-252-1, /-7 & /-11	1200 hrs (5 & 6)
Main Rotor Grip	47-120-252-5	300 hrs (5)
Main Rotor Hub Core	47-120-117-1	(7)
Main Rotor Yoke (Steel)	47-120-177-1	5000 hrs (42 & 43)
FLIGHT CONTROLS		
Main Rotor Flight Control Bolts	(40)	(23)
Collective Sleeve	47-150-117-13, /-21	5000 hrs
Scissors Assembly	47-150-249-5, /-7	5000 hrs
Tail Rotor Pitch Change Shaft Bearing	47-640-069-1, /-3	(13)
TAIL ROTOR SYSTEM		
Tail Rotor Yoke	47-641-104-5	(13 & 17)
Tail Rotor Yoke	47-641-126-5	2500 hrs
Tail Rotor Blade	47-642-102-(ALL)	(13, 18 & 28)
Tail Rotor Blade	47-642-117-1, /-105	2500 hrs
Tail Rotor Drive Shaft	47-644-172-3	(21)
Tail Rotor Drive Shaft	47-644-180-1, /-5	(21)
Tail Rotor Drive Shaft	47-644-186-1	(21)
Tail Rotor Drive Shaft	47-644-187-1, /-5 & /-11	(21)
Tail Rotor Drive Shaft	47-644-214-1	(21)
POWERPLANT		
Engine Mount	47-612-171-(ALL)	2500 hrs
Fan Belt (Matched Sets)	47-661-041-1 through /-7	600 hrs
Fan Belt (Matched Sets)	47-661-041-9	900 hrs - 5 year shelf life (44)
TRANSMISSION		
Shear Screw	47-620-485-9	1200 hrs

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Table 6 – Airworthiness Limitations for 47G-3B & 47G-3B-1 (Sheet 1 of 1)

Nomenclature	Part Number	Airworthiness Life (1)
MAIN ROTOR SYSTEM		
Main Rotor Blade	47-110-250-11	5000 hrs (45)
Main Rotor Blade	47-110-250-21	5000 hrs (45)
Main Rotor Blade	47-110-250-23	5000 hrs (46)
Main Rotor Drag Brace	47-110-372-1	2500 hrs
Main Rotor Pitch Horn	47-120-126-5	5000 hrs
Main Rotor Gimbal Ring	47-120-014-1 through /-21	(4)
Main Rotor Gimbal Ring	47-120-014-23	4800 hrs
Main Rotor Grip	47-120-252-1, /-7 & /-11	1200 hrs (5 & 6)
Main Rotor Grip	47-120-252-5	300 hrs (5)
Main Rotor Hub Core	47-120-117-1	(7)
Main Rotor Yoke (Steel)	47-120-177-1	5000 hrs (42 & 43)
FLIGHT CONTROLS		
Main Rotor Flight Control Bolts	(40)	(23)
Collective Sleeve	47-150-117-13, /-21	5000 hrs
Scissors Assembly	47-150-249-5, /-7	5000 hrs
Tail Rotor Pitch Change Shaft Bearing	47-640-069-1, /-3	(13)
TAIL ROTOR SYSTEM		
Tail Rotor Yoke	47-641-104-5	(13 & 17)
Tail Rotor Yoke	47-641-126-5	2500 hrs
Tail Rotor Blade	47-642-102-(ALL)	(13, 18 & 28)
Tail Rotor Blade	47-642-117-1, /-105	2500 hrs
Tail Rotor Drive Shaft	47-644-172-3	(21)
Tail Rotor Drive Shaft	47-644-180-1, /-5	(21)
Tail Rotor Drive Shaft	47-644-186-1	(21)
Tail Rotor Drive Shaft	47-644-187-1, /-5 & /-11	(21)
Tail Rotor Drive Shaft	47-644-214-1	(21)
POWERPLANT		
Engine Mount	47-612-171-(ALL)	2500 hrs
Fan Belt (Matched Sets)	47-661-041-1 through /-7	600 hrs
Fan Belt (Matched Sets)	47-661-041-9	900 hrs - 5 year shelf life (44)
TRANSMISSION		
Shear Screw	47-620-485-9	1200 hrs

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Table 7 – Airworthiness Limitations for 47G-3B-2 (Sheet 1 of 1)

Nomenclature	Part Number	Airworthiness Life (1)
MAIN ROTOR SYSTEM		
Main Rotor Blade	47-110-250-23	5000 hrs
Main Rotor Drag Brace	47-110-372-1	2500 hrs
Main Rotor Pitch Horn	47-120-126-5	5000 hrs
Main Rotor Gimbal Ring	47-120-014-1 through /-21	(4)
Main Rotor Gimbal Ring	47-120-014-23	4800 hrs
Main Rotor Grip	47-120-252-1, /-7 & /-11	1200 hrs (5 & 6)
Main Rotor Grip	47-120-252-5	300 hrs (5)
Main Rotor Hub Core	47-120-117-1	(7)
Main Rotor Yoke (Steel)	47-120-177-1	5000 hrs (42 & 43)
FLIGHT CONTROLS		
Main Rotor Flight Control Bolts	(40)	(23)
Collective Sleeve	47-150-117-13, /-21	5000 hrs
Scissors Assembly	47-150-249-5, /-7	5000 hrs
Tail Rotor Pitch Change Shaft Bearing	47-640-069-1, /-3	(13)
Tail Rotor Pitch Change Shaft Bearing	S3K or S3S	(13)
TAIL ROTOR SYSTEM		
Tail Rotor Yoke	47-641-104-5	(13 & 17)
Tail Rotor Yoke	47-641-126-5	2500 hrs
Tail Rotor Blade	47-642-102-(ALL)	(13, 18 & 28)
Tail Rotor Blade	47-642-117-1, /-105	2500 hrs
Tail Rotor Drive Shaft	47-644-172-3	(21)
Tail Rotor Drive Shaft	47-644-180-1, /-5	(21)
Tail Rotor Drive Shaft	47-644-186-1	(21)
Tail Rotor Drive Shaft	47-644-187-1, /-5 & /-11	(21)
Tail Rotor Drive Shaft	47-644-214-1	(21)
Tail Rotor Drive Shaft	47-644-234-3	(22)
POWERPLANT		
Engine Mount	47-612-171-(ALL)	2500 hrs
Fan Belt (Matched Sets)	47-661-041-1 through /-7	600 hrs
Fan Belt (Matched Sets)	47-661-041-9	900 hrs - 5 year shelf life (44)

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Table 8 – Airworthiness Limitations for 47G-3B-2A (Sheet 1 of 1)

Nomenclature	Part Number	Airworthiness Life (1)
MAIN ROTOR SYSTEM		
Main Rotor Blade	47-110-250-23	5000 hrs
Main Rotor Drag Brace	47-110-372-1	2500 hrs
Main Rotor Pitch Horn	47-120-126-5	5000 hrs
Main Rotor Gimbal Ring	47-120-014-1 through /-21	(4)
Main Rotor Gimbal Ring	47-120-014-23	4800 hrs
Main Rotor Grip	47-120-252-1, /-7 & /-11	1200 hrs (5 & 6)
Main Rotor Grip	47-120-252-5	300 hrs (5)
Main Rotor Hub Core	47-120-117-1	(7)
Main Rotor Yoke (Steel)	47-120-177-1	5000 hrs (42 & 43)
FLIGHT CONTROLS		
Main Rotor Flight Control Bolts	(40)	(23)
Collective Sleeve	47-150-117-13, /-21	5000 hrs
Scissors Assembly	47-150-249-5, /-7	5000 hrs
TAIL ROTOR SYSTEM		
Tail Rotor Yoke	47-641-104-5	(13 & 17)
Tail Rotor Yoke	47-641-126-5	2500 hrs
Tail Rotor Blade	47-642-102-(ALL)	(13, 18 & 28)
Tail Rotor Blade	47-642-117-1, /-105	2500 hrs
Tail Rotor Drive Shaft	47-644-234-3	(22)
POWERPLANT		
Engine Mount	47-612-171-(ALL)	2500 hrs
Fan Belt (Matched Sets)	47-661-041-1 through /-7	600 hrs
Fan Belt (Matched Sets)	47-661-041-9	900 hrs - 5 year shelf life (44)

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Table 9 – Airworthiness Limitations for 47G-4 & 47G-4A (Sheet 1 of 1)

Nomenclature	Part Number	Airworthiness Life (1)
MAIN ROTOR SYSTEM		
Main Rotor Blade	47-110-250-23	5000 hrs
Main Rotor Drag Brace	47-110-372-1	2500 hrs
Main Rotor Pitch Horn	47-120-126-5	5000 hrs
Main Rotor Gimbal Ring	47-120-014-1 through /-21	(4)
Main Rotor Gimbal Ring	47-120-014-23	4800 hrs
Main Rotor Grip	47-120-252-1, /-7 & /-11	1200 hrs (5 & 6)
Main Rotor Grip	47-120-252-5	300 hrs (5)
Main Rotor Hub Core	47-120-117-1	(7)
Main Rotor Yoke (Steel)	47-120-177-1	5000 hrs (42 & 43)
FLIGHT CONTROLS		
Main Rotor Flight Control Bolts	(40)	(23)
Collective Sleeve	47-150-117-13, /-21	5000 hrs
Scissors Assembly	47-150-249-5, /-7	5000 hrs
Tail Rotor Pitch Change Shaft Bearing	47-640-069-1, /-3	(13)
Tail Rotor Pitch Change Shaft Bearing	S3K or S3S	(13)
TAIL ROTOR SYSTEM		
Tail Rotor Yoke	47-641-104-5	(13 & 17)
Tail Rotor Yoke	47-641-126-5	2500 hrs
Tail Rotor Blade	47-642-102-(ALL)	(13, 18 & 28)
Tail Rotor Blade	47-642-117-1, /-105	2500 hrs
Tail Rotor Drive Shaft	47-644-172-3	(21)
Tail Rotor Drive Shaft	47-644-180-1, /-5	(21)
Tail Rotor Drive Shaft	47-644-186-1	(21)
Tail Rotor Drive Shaft	47-644-187-1, /-5 & /-11	(21)
Tail Rotor Drive Shaft	47-644-214-1	(21)
Tail Rotor Drive Shaft	47-644-234-3	(22 & 51)
POWERPLANT		
Engine Mount	47-612-171-(ALL)	2500 hrs
Fan Belt (Matched Sets)	47-661-041-1 through /-7	600 hrs
Fan Belt (Matched Sets)	47-661-041-9	900 hrs - 5 year shelf life (44)
TRANSMISSION		
Shear Screw	47-620-485-9	1200 hrs (47)

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Table 10 – Airworthiness Limitations for 47G-5 (Sheet 1 of 1)

Nomenclature	Part Number	Airworthiness Life (1)
MAIN ROTOR SYSTEM		
Main Rotor Blade	47-110-250-21	5000 hrs
Main Rotor Pitch Horn	47-120-126-5	5000 hrs
Main Rotor Drag Brace	47-110-372-1	2500 hrs
Main Rotor Gimbal Ring	47-120-014-1 through /-21	(4)
Main Rotor Gimbal Ring	47-120-014-23	4800 hrs
Main Rotor Grip	47-120-252-1, /-7 &/-11	1200 hrs (5 & 6)
Main Rotor Grip	47-120-252-5	300 hrs (5)
Main Rotor Hub Core	47-120-117-1	(7)
Main Rotor Yoke (Steel)	47-120-177-1	5000 hrs (42 & 43)
FLIGHT CONTROLS		
Main Rotor Flight Control Bolts	(40)	(23)
Collective Sleeve	47-150-117-13, /-21	5000 hrs
Scissors Assembly	47-150-249-5, /-7	5000 hrs
Tail Rotor Pitch Change Shaft Bearing	47-640-069-1, /-3	(13)
Tail Rotor Pitch Change Shaft Bearing	S3K or S3S	(13)
TAIL ROTOR SYSTEM		
Tail Rotor Yoke	47-641-104-5	(13 & 17)
Tail Rotor Yoke	47-641-126-5	2500 hrs
Tail Rotor Blade	47-642-102-(ALL)	(13, 18 & 28)
Tail Rotor Blade	47-642-117-1, /-105	2500 hrs
Tail Rotor Drive Shaft	47-644-172-3	(21)
Tail Rotor Drive Shaft	47-644-180-1, /-5	(21)
Tail Rotor Drive Shaft	47-644-186-1	(21)
Tail Rotor Drive Shaft	47-644-187-1, /-5 & /-11	(21)
Tail Rotor Drive Shaft	47-644-214-1	(21)
Tail Rotor Drive Shaft	47-644-234-3	(22)
POWERPLANT		
Engine Mount	47-612-171-(ALL)	2500 hrs
Fan Belt (Matched Sets)	47-661-041-1 through /-7	600 hrs
Fan Belt (Matched Sets)	47-661-041-9	900 hrs - 5 year shelf life (44)
TRANSMISSION		
Shear Screw	47-620-485-9	1200 hrs

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Table 11 – Airworthiness Limitations for 47G-5A (Sheet 1 of 1)

Nomenclature	Part Number	Airworthiness Life (1)
MAIN ROTOR SYSTEM		
Main Rotor Blade	47-110-250-21	5000 hrs
Main Rotor Pitch Horn	47-120-126-5	5000 hrs
Main Rotor Drag Brace	47-110-372-1	2500 hrs
Main Rotor Gimbal Ring	47-120-014-1 through -21	(4)
Main Rotor Gimbal Ring	47-120-014-23	4800 hrs
Main Rotor Grip	47-120-252-1, /-7 & /-11	1200 hrs (5 & 6)
Main Rotor Grip	47-120-252-5	300 hrs (5)
Main Rotor Hub Core	47-120-117-1	(7)
Main Rotor Yoke (Steel)	47-120-177-1	5000 hrs (42 & 43)
FLIGHT CONTROLS		
Main Rotor Flight Control Bolts	(40)	(23)
Collective Sleeve	47-150-117-13, /-21	5000 hrs
Scissors Assembly	47-150-249-5, /-7	5000 hrs
Tail Rotor Pitch Change Shaft Bearing	47-640-069-1, /-3	(13)
Tail Rotor Pitch Change Shaft Bearing	S3K or S3S	(13)
TAIL ROTOR SYSTEM		
Tail Rotor Yoke	47-641-104-5	(13 & 17)
Tail Rotor Yoke	47-641-126-5	2500 hrs
Tail Rotor Blade	47-642-102-(ALL)	(13, 18 & 28)
Tail Rotor Blade	47-642-117-1, /-105	2500 hrs
Tail Rotor Drive Shaft	47-644-234-3	(22)
POWERPLANT		
Engine Mount	47-612-171-(ALL)	2500 hrs
Fan Belt (Matched Sets)	47-661-041-1 through /-7	600 hrs
Fan Belt (Matched Sets)	47-661-041-9	900 hrs - 5 year shelf life (44)
TRANSMISSION		
Shear Screw	47-620-485-9	1200 hrs

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Table 12 – Airworthiness Limitations for 47J (Sheet 1 of 2)

Nomenclature	Part Number	Airworthiness Life (1)
MAIN ROTOR SYSTEM		
Main Rotor Blade	47-110-401-(ALL)	(2)
Main Rotor Blade	47-110-250-11	5000 hrs
Main Rotor Blade	47-110-250-21	5000 hrs
Main Rotor Pitch Horn	47-120-126-5	5000 hrs
Main Rotor Drag Brace	47-110-301-1	(2)
Main Rotor Drag Brace	47-110-372-1	2500 hrs
Main Rotor Gimbal Ring	47-120-014-1 through /-21	(4)
Main Rotor Gimbal Ring	47-120-014-23	4800 hrs
Main Rotor Grip	47-120-252-1, /-7 & /-11	1200 hrs (5 & 6)
Main Rotor Grip	47-120-252-5	300 hrs (5)
Main Rotor Hub Core	47-120-117-1	(7)
Main Rotor Yoke (Steel)	47-120-177-1	2500 hrs (42 & 43)
Main Rotor Counterweight Bracket	47-110-287-9	200 hrs (29)
FLIGHT CONTROLS		
Main Rotor Flight Control Bolts	(40)	(23)
Collective Pitch Link Rod End Bearing	RE4FL7/RE4FL7	(34)
Cyclic Bellcrank, Longitudinal	47-724-097-7, /-9	2500 hrs (41)
Torque Tube, Lateral	47-725-852-1	1200 hrs (48)
Collective Sleeve	47-150-117-5, /-13, /-21	5000 hrs
Scissors Assembly	47-150-249-1, /-5, /-7	5000 hrs
Tail Rotor Pitch Change Shaft Bearing	47-640-069-1, /-3	(13)
Tail Rotor Pitch Change Shaft Bearing	S3K or S3S	(13)
TAIL ROTOR SYSTEM		
Tail Rotor Yoke	47-641-104-5	(13 & 17)
Tail Rotor Yoke	47-641-126-5	2500 hrs
Tail Rotor Blade	47-642-102-(ALL)	(13, 18 & 28)
Tail Rotor Blade	47-642-117-1, /-105	2500 hrs
Tail Rotor Drive Shaft	47-644-172-3	(21)
Tail Rotor Drive Shaft	47-644-180-1, /-5	(21)
Tail Rotor Drive Shaft	47-644-186-1	(21)
Tail Rotor Drive Shaft	47-644-187-1, /-5 & /-11	(21)
Tail Rotor Drive Shaft	47-644-214-1	(21)
Tail Rotor Extension Tube	47-640-055-3	600 hrs (52)

INFORMATION LETTER 47-00-7**Table 12 – Airworthiness Limitations for 47J (Sheet 2)**

Nomenclature	Part Number	Airworthiness Life (1)
POWERPLANT		
Engine Mount	47-612-135-147	(38)
Engine Mount	47-612-171-(ALL)	2500 hrs
Fan Belt (Matched Sets)	47-661-041-1 through /-7	600 hrs
Fan Belt (Matched Sets)	47-661-041-9	900 hrs - 5 year shelf life (44)
Fan Drive Bearing	47-620-605-1	(25)
TRANSMISSION		
Shear Screws	47-620-485-1	600 hrs
Shear Screws	47-620-485-9	1200 hrs

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Table 13 – Airworthiness Limitations for 47J-2 & 47J-2A (Sheet 1 of 1)

Nomenclature	Part Number	Airworthiness Life (1)
MAIN ROTOR SYSTEM		
Main Rotor Blade	47-110-250-21	5000 hrs
Main Rotor Blade	47-110-250-23	5000 hrs
Main Rotor Pitch Horn	47-120-126-5	5000 hrs
Main Rotor Drag Brace	47-110-372-1	2500 hrs
Main Rotor Gimbal Ring	47-120-014-1 through /-21	(4)
Main Rotor Gimbal Ring	47-120-014-23	4800 hrs
Main Rotor Grip	47-120-252-1, /-7 & /-11	1200 hrs (5 & 6)
Main Rotor Grip	47-120-252-5	300 hrs (5)
Main Rotor Hub Core	47-120-117-1	(7)
Main Rotor Yoke (Steel)	47-120-177-1	5000 hrs (42 & 43)
FLIGHT CONTROLS		
Main Rotor Flight Control Bolts	(40)	(23)
Collective Sleeve	47-150-117-13, /-21	5000 hrs
Scissors Assembly	47-150-249-5, /-7	5000 hrs
Cyclic Bellcrank Longitudinal	47-724-097-9	5000 hrs
Tail Rotor Pitch Change Shaft Bearing	47-640-069-1, /-3	(13)
Tail Rotor Pitch Change Shaft Bearing	S3K or S3S	(13)
TAIL ROTOR SYSTEM		
Tail Rotor Yoke	47-641-104-5	(13 & 17)
Tail Rotor Yoke	47-641-126-5	2500 hrs
Tail Rotor Blade	47-642-102-(ALL)	(13, 18 & 28)
Tail Rotor Blade	47-642-117-1, /-105	2500 hrs
Tail Rotor Drive Shaft	47-644-172-3	(21)
Tail Rotor Drive Shaft	47-644-180-1, /-5	(21)
Tail Rotor Drive Shaft	47-644-186-1	(21)
Tail Rotor Drive Shaft	47-644-187-1, /-5 & /-11	(21)
Tail Rotor Drive Shaft	47-644-214-1	(21)
POWERPLANT		
Engine Mount	47-612-171-(ALL)	2500 hrs
Fan Belt (Matched Sets)	47-661-041-1 through /-7	600 hrs
Fan Belt (Matched Sets)	47-661-041-9	900 hrs - 5 year shelf life (44)
TRANSMISSION		
Shear Screw	47-620-485-9	1200 hrs

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Table 14 – Airworthiness Limitations for 47H-1 (Sheet 1 of 1)

Nomenclature	Part Number	Airworthiness Life (1)
MAIN ROTOR SYSTEM		
Main Rotor Blade (Wood)	47-110-120-30, /-50	On Condition
Main Rotor Gimbal Ring	47-120-014-1 through /-21	(4)
Main Rotor Gimbal Ring	47-120-014-23	4800 hrs
Main Rotor Grip	47-120-135-2, /-3 & /-5	1200 hrs (5)
Main Rotor Hub Core	47-120-117-1	(7)
Main Rotor Yoke (Steel)	47-120-177-1	3600 hrs (42 & 43)
FLIGHT CONTROLS		
Main Rotor Flight Control Bolts	(40)	(23)
Collective Pitch Link Rod End Bearing	RE4F7/RE4FL7	(34)
Tail Rotor Pitch Change Bearing	R4AF4 (47-641-146)	(13)
Tail Rotor Pitch Change Bearing	S1RP	(13)
Tail Rotor Pitch Change Bearing	7R4AX1C	(13)
TAIL ROTOR SYSTEM		
Tail Rotor Yoke	47-641-057-7	(13)
Tail Rotor Yoke	47-641-057-9	(13 & 16)
Tail Rotor Yoke	47-641-126-5	2500 hrs
Tail Rotor Blade	47-642-102-(ALL)	(13, 18 & 28)
Tail Rotor Blade	47-642-117-1, /-105	2500 hrs
Tail Rotor Hub Retention Bolts	47-641-052-1	(13, 31)
Tail Rotor Hub Retention Bolts	47-641-052-3, /-5	(13 & 14)
Tail Rotor Drive Shaft	47-644-172-3	(21)
Tail Rotor Drive Shaft	47-644-180-1, /-5	(21)
Tail Rotor Drive Shaft	47-644-186-1	(21)
Tail Rotor Drive Shaft	47-644-187-1, /-5 & /-11	(21)
Tail Rotor Drive Shaft	47-644-214-1	(21)
Tail Rotor Hub Retention Bolt	47-641-194-1	(13)
POWERPLANT		
Engine Mount	47-612-135-63	1200 hrs (39)
Fan Belts (Matched Sets)	47-661-028-1	100 hrs
Fan Belts (Matched Sets)	47-661-041-1 through /-7	600 hrs
Fan Belts (Matched Sets)	47-661-041-9	900 hrs - 5 year shelf life (44)
Fan Drive Bearing	47-620-605-1	(25)
TRANSMISSION		
Shear Screw	47-620-485-1	600 hrs
Shear Screw	47-620-485-9	1200 hrs

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NOTES

The notes that follow apply to TABLES 1 through 14 of this Alert Service Bulletin.

1. The airworthiness limitation for the part number listed applies to all successive dash numbers for that component unless otherwise specified. The operating time specified for retirement for any given part number contained in this Retirement Schedule applies to all successive dash numbers for that item unless otherwise specified. Retirement lives assigned to helicopter components and assemblies are based upon experience, testing and engineering judgment, and the configuration of the helicopter at the time of delivery. They are subject to change at the sole discretion of Bell Helicopter Textron or an appropriate government agency.
2. Remove these blades from service on 47J or any other helicopter (unauthorized use) that may have this blade installed. Refer to SB 47-04-1-74-1, dated 9-20-74. Service Instruction (SI) 316 introduced metal blades and required that drag brace 47-110-301-(ALL) be removed from service.
3. Increase in life of the short metal blade from 2500 to 3000 hours. Refer to SL 112 Revision A, dated 1-29-58 and AD 56-20-03.
4. Removal from service no later than 1 September 1976 of main rotor gimbal rings 47-120-014-5, /-6, /-7, /-9, /-11, /-13, /-15, /-17, /-19 and /-21. Refer to SB 47-76-4, dated 4-5-76.
5. Retirement of grips 47-120-135-2, /-3, /-5 and 47-120-252-1, /-7, /-11 after 1200 hours; retirement of grip 47-120-252-5 after 300 hours. Refer to ASB 47-85-12 Revision A, dated 3-13-86. Refer to Federal Aviation Authority (FAA) Airworthiness Directive (AD) 86-06-08 or Transport Canada Aviation (TCA) Airworthiness Directive (AD) CF-88-08.
6. Mandatory removal from service immediately of main rotor grip 47-120-252-11 with selected s/n listed in bulletin. Refer to ASB 47-89-15 Revision A, dated 8-29-89 and AD 91-20-10.
7. Recurring 100 hr inspection of thin web cores 47-120-117-1 that have accumulated 1200 hrs in service. Refer to SB 47-04-1-73-2, dated 5-3-73.

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8. When used with 200 hp engine.
9. When used with 178 hp engine.
10. Mandatory removal from service of drag brace 47-110-133-1 installed on 47B and 47B3. Replace with drag brace 47-110146-2 (50). Refer to SB 31, dated 9-8-47 and FAA AD 48-11-05.
11. Mandatory removal from service no later than 1 March 1952. Refer to SB 77, dated 11-2-51 and FAA AD 52-01-02.
12. Mandatory replacement with pitch links 47-641-070-1, 47-641-107-1 or 47-641-154-1. Refer to SB 97 rev. C, dated 4-19-57 and AD 55-05-01.
13. Mandatory installation of tail rotor hub and blade assembly 47-641-170. Refer to ASB 47-79-4 Rev B, dated 2-4-81 and AD 80-10-04.
14. Mandatory removal from service of T/R hub bolts 47-641-052-3, /-5 and seals 47-641-042-1, no later than Feb. 15, 1976. Refer to SB 47-76-1, dated 1-5-76 and AD 76-12-01.
15. Mandatory removal of shaft 47-645-028-1, 47-645-051-1 & 47-645-077-1 at 900 hrs of operation. Until part reaches 900 hours in service a mandatory 100 hr inspection of bolt hole for elongation or cracks is required. Refer to SB 83 Revision C, dated 2-19-53 and AD 51-29-01, AD 52-28-03.
16. Mandatory removal from service of limited s/n effectivity for 47-641-057-9 TR yokes only. Refer to SB 47-05-73-1 Revision A, dated 11-18-75 and AD 76-12-02. Superseded by ASB 47-79-4 Revision B, dated 2-4-81.
17. Applies to tail rotor yokes S/N I29-642 through I29-689 as used on 47G2-A, 47G3 & 47G3-B only. Affected parts to be sent to BHT for inspection and reprocessing. Refer to SB 138, dated 8/24/62. Superseded by ASB 47-79-4 Revision B, dated 2-4-81.
18. Airworthiness life reduced to 300 hours. Refer to ASB 47-79-3, dated 12-4-79 and AD 80-10-04.
19. Replacement of tail rotor blade assembly 47-642-117-1 S/N A-8 through A-72. Refer to ASB 47-84-11, dated 10-16-84.

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20. Mandatory replacement of tail rotor blade assembly, P/N 47-642-117-105, serial numbers A-1943 through A-2068. Refer to ASB 47-96-21, dated 1-29-96 and AD 96-06-12.
21. Mandatory removal from service no later than 1 March, 1971. Refer to SB 145 Revision C, dated 12-22-70 and AD 78-08-02.
22. Mandatory removal from service no later than 1 March 85. Replaced by 47-644-234-101. Refer to ASB 47-84-10 Revision A, dated 7-16-84.
23. Calendar inspection each 24 months imposed on main rotor flight control bolts. Refer to ASB 47-89-16, dated 8-02-89.
24. Daily inspection, of engine mount assemblies 47-612-111-1 or /-5, for cracks, and airworthiness life reduced to 600 hrs. Refer to SB 74, Rev. E dated 4-21-54 and AD 51-27-01.
25. Mandatory removal from service of bearing 47-620-605-1 no later than 1 Dec 1980. Refer to ASB 47-80-6, dated 5-15-80 and AD 81-04-03. Replaced by bearing 47-620-929-001.
26. Mandatory replacement before accumulating 600 hrs. Refer to SB 66, dated 2-18-48 and AD 48-12-05.
27. Mandatory removal from service at 100 hours of operation if SB 47C37 and 47C39 are completed (50 hrs if not completed). Refer to SB 47C4, dated 2-23-48 and AD 47-51-11.
28. Mandatory replacement of tail rotor blades and/or blade sets P/N 47-642-102-7, /-9, /-19, /-27, /-29, /-33, /-39, /-39, /-41, /-45, /-51, /-53, /-57, /-63, /-65, /-69, /-75, /-77 and /-81. Refer to ASB 47-76-2, dated 2-13-76 and AD 80-10-04.
29. Mandatory one-time replacement of main rotor counterweight bracket 47-110-287-9 at 200 hours. The new bracket assemblies are on-condition. Refer to SB 127 Revision B, dated 5-20-59 and AD 58-17-01.
30. Mandatory replacement of pillow blocks 47-120-111-1 by 47-120-111-5, prior to next flight. Refer to SB 45, dated 5-27-47 and AD 47-32-06.

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31. Mandatory replacement of tail rotor hub retention bolts, P/N 47-641-052-1. Refer to SB 112 Revision A, dated 1-29-58 and AD 56-20-03. Superseded by ASB 47-79-4 Revision B, dated 2-4-81.
32. Replacement of collective pitch yoke locknut 47-150-137-1 with locknut 47-150-137-3 before 1 June, 1952. Refer to SB 88, dated 4-17-52.
33. Mandatory replacement of main rotor mast assembly 47-130-100-1 with mast assembly 47-130-100-2. Refer to SB 24, dated 6-26-47 and AD 47-32-10.
34. Mandatory replacement of collective pitch link rod end bearings RE4F7 & REFL7 with bearings 47-140-252-1 before 1 March 1962. Refer to SB 137, dated 12-1-61 and AD 61-22-01.
35. Mandatory replacement of tail rotor blade grip retaining screw no later than 1 March 1952. Refer to SB 80, dated 11-2-51 and AD 52-01-05.
36. Replace tail rotor drive rear universal joint and shaft assembly that do not have a grease nipple. Refer to SB 54, dated 7-16-47.
37. Replacement of collective pitch sleeve yoke 47-150-122-1 with yoke 47-150-122-2. Refer to SB 6, dated 3-3-47.
38. Engine mount retirement life is 2500 hours if helicopter is operated at 2565 pounds maximum gross weight and 600 hours if helicopter is operated at 2800 to 2850 pounds maximum gross weight. Engine mount which has been operated at 2565 pounds maximum gross weight for less than 900 hours can continue in service after installation of 2850 pounds gross weight kit, for not more than 600 hours provided total time in service does not exceed 900 hours. Refer to S. I. 316 Revision J, dated 3-12-65.
39. A Magnetic Particle Inspection (MPI) is required every 400 hours of operation.
40. The part number was not shown in original publications.
41. The airworthiness life is 2500 hours if the bellcrank was used at any time with wood blades and 5000 hours if the bellcrank was used only with metal blades.

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42. The airworthiness life of the main rotor yoke is 3600 hours if the main rotor yoke was used at any time with wood blades on any Bell 47 except the Bell 47J, and 5000 hours if the main rotor yoke was used only with metal blades.
43. The airworthiness life of the main rotor yoke is 2500 hours if the main rotor yoke was used at any time with wood blades on the Bell 47J, and 5000 hours if the main rotor yoke was used only with metal blades.
44. Bell Helicopter recommends applying a five year life to parts in shelf stock while in storage. Fan belts in active service are only subjected to the 900 hours life.
45. Authorized for use on model 47G-3B only.
46. Authorized for use on model 47G-3B-1 only.
47. Authorized for use on model 47G-4 only.
48. Lateral torque tube 47-725-852-1 is on-condition.
49. Drag brace 47-110-372-1 is used with metal blades only. Drag brace 47-110-236-(ALL), which is used only with wood blades, is on-condition.
50. Left-hand thread fitting 47-110-145-2 must be removed from service. Refer to S. B. 77, dated 11-2-51.
51. Authorized for use on model 47G-4A only.
52. Tail rotor extension tube 47-640-055-5 is on-condition.
53. The airworthiness life is 5000 hours if the collective sleeve was used at any time with metal blades and on-condition if the collective sleeve was used only with wood blades.