

**ROBINSON MAINTENANCE MANUAL R44 SERIES**

TABLE 1 SCHEDULED INSPECTIONS Consult latest revision of listed publications for specific applicability.	First 10 hours	First 25 hours	First 100 hours	Every 50 hours	Every 100 hours	Every 300 hours	Every 500 hours	Every 2200/2400 hours	Every 4 months	Every 12 months	Every 24 months	Every 3 years	Every 4 years	Every 12 years	Every 15 years
	Perform inspection per Lycoming Operator's Manual.*	•	•	•	•	•	•	•	•						
Perform Lycoming SI 1129 <i>Methods of Checking DC Alternator and Generator Belt Tension.</i>		•			•										
Perform Lycoming SI 1191 <i>Cylinder Compression.</i>					•										
Perform Lycoming SI 1080 <i>Maintenance Items for Special Attention.</i>				•	•										
Perform Lycoming SB 301* <i>Maintenance Procedures and Service Limitations for Valves.</i>			•			•									
Perform Lycoming SB 366, as applicable <i>Carburetor Throttle Body Screw Inspection.</i>				•											
Perform Lycoming SB 342 (IO-540 Only) <i>Fuel Line (Stainless Steel Tube Assy.) and Support Clamp Inspection &amp; Installation. Reference AD 2015-19-07.</i>					•										
Perform Lycoming SB 388* (also applies to replacement cylinders) <i>Procedure to Determine Exhaust Valve and Guide Condition.</i>		•				•									
Perform Lycoming SB 480 <i>I. Oil &amp; Filter Change &amp; Screen Cleaning / II. Oil Filter/Screen Content Inspection.</i>		•	•					•							
Perform CMI SB 643, as applicable <i>Maintenance intervals for All CMI/TCM/Bendix Magnets &amp; Related Equipment.</i>					•		•						•	•	
Perform CMI SB 658 <i>Distributor Gear Maintenance.</i>					•		•						•		
Perform CMI SB 663 <i>Two-Wire Magneto Tach. Breaker Contact (Points) Assy. P/N 10-400507.</i>							•						•		
Perform CMI SB 670 <i>Replacement and maintenance of Magneto Distributor Block.</i>							•						•		
Perform 100-hour/annual inspection per § 2.400.					•					•					
Perform main rotor blade tip maintenance per § 9.150.					•					•					
Lubricate C181-3 bearing per § 1.140.						•						•			
Replace hydraulic filter per § 1.170.						•									
Drain and flush gearboxes per § 1.120 & 1.130.							•								
Clean gearbox chip detectors per § 1.115.							•			•					
Perform clutch assembly lubricant inspection & servicing per § 7.210.							•								
Verify magneto drive cushion pliability.							•						•		
Perform 2200-hour inspection per § 2.700.								•							
Inspect emergency locator transmitter (ELT) per 14 CFR § 91.207.										•					
Perform pop-out float leak check per § 5.630.										•					
Test and inspect transponder per 14 CFR § 91.413.											•				
Perform pop-out float inflation check per § 5.640.											•				
Perform pop-out float pressure cylinder hydrostatic test.*												•			
Perform 12-year inspection per § 2.600.**														•	
Pop-out float pressure cylinder maximum life.															•

?	CMI SB 658 DISTRIBUTOR GEAR MAINTENANCE	Airframe Hours*	100.0	50.0 Hours	0.00	193.89	100.00
?	CMI SB 658 DISTRIBUTOR GEAR MAINTENANCE	Airframe Hours*	500.0	50.0 Hours	0.00	500.00	406.11
?	CMI SB 658 DISTRIBUTOR GEAR MAINTENANCE	Date (Years)*	4.0	90.0 Days	30/10/2020	29/10/2024	1187 days

Defects/Title :	500 FH / 4 YEARS	Priority :	Low
Reference/IAW :		Status :	WIP
Details/Rectification :	VERIFY MAGNETO DRIVE CUSHION PLIABILITY.  REFERENCE:  REMARKS:		

2.29 .....	JUL 2021
2.30 .....	JUL 2021
2.30A .....	JUL 2021
2.30B .....	JUL 2021

**Pitch Links:** Check rod ends for excessive looseness. If equipped with one-piece pitch links, disconnect and rotate inboard end outboard as required to obtain maximum service life. Additionally, an optional A215-012 o-ring may be installed on A115-1 spacer under both bolt heads at pitch control.

**Tail Rotor Blades:** Inspect blade surfaces for excessive erosion, nicks, scratches, cracks, corrosion, voids, or debonding. Check tail rotor blade root fitting bearings for fretting and looseness. Loose bearing outer race in root fitting is unairworthy, requiring replacement of blade. C029-1 blades only: remove tip covers, inspect for debris and corrosion, & reinstall covers. Inspect condition and perform tail rotor blade care per § 9.470. C029-1 or C029-2 blades only: Inspect tail rotor blades for fatigue cracks per U.S. AD 2020-08-10.

Defects/Title :	TAIL ROTOR GEARBOX AND TAIL ROTOR	Priority :	Low
Reference/IAW :		Status :	WIP
Details/Rectification :	PITCH LINKS  CHECK ROD ENDS FOR EXCESSIVE LOOSENESS. IF EQUIPPED WITH ONE-PIECE PITCH LINKS, DISCONNECT AND ROTATE INBOARD END OUTBOARD AS REQUIRED TO OBTAIN MAXIMUM SERVICE LIFE. ADDITIONALLY, AN OPTIONAL A215-012 O-RING MAY BE INSTALLED ON A115-1 SPACER UNDER BOTH BOLTS HEADS AT PITCH CONTROL.  REFERENCE: R44 MM 2.410  REMARKS:		

Defects/Title :	TAIL ROTOR GEARBOX AND TAIL ROTOR	Priority :	Low
Reference/IAW :		Status :	WIP
Details/Rectification :	TAIL ROTOR BLADES  INSPECT BLADE SURFACES FOR EXCESSIVE EROSION, NICKS, SCRATCHES, CRACKS, CORROSION, VOIDS, OR DEBONDING. CHECK TAIL ROTOR BLADE ROOT FITTING BEARINGS FOR FRETTING AND LOOSENESS. LOOSE BEARING OUTER RACE IN ROOT FITTING IS UNAIRWORTHY, REQUIRING REPLACEMENT OF BLADE. C029-1 BLADES ONLY: REMOVE TIP COVERS, INSPECT FOR DEBRIS AND CORROSION, & REINSTALL COVERS. INSPECT CONDITION AND PERFORM TAIL ROTOR BLADE CARE PER 9.470. C029-1 OR C029-2 BLADES ONLY: INSPECT TAIL ROTOR BLADES FOR FATIGUE CRACKS PER U.S. AD 2020-08-10.  REFERENCE: R44 MM 2.410  REMARKS:		