

SECTION 05-50

UNSCHEDULED MAINTENANCE CHECKS

05-50-1. SPECIAL INSPECTIONS

Perform applicable Optional Equipment Special Inspections in accordance with **Sect 05-60**. Special Inspections

Date Signature Helicopter Registration No. Helicopter Flight hours	
INITIAL EACH ITEM AFTER ACCOMPLISHMENT	INITIAL
1 PRIOR TO THE FIRST FLIGHT OF THE DAY 62-00 MAIN ROTOR 1. (Only when protective tape is installed on leading edge) Inspect the tape for proper adhesion, condition, wrinkles, lifting or breaking at the edges. Ref. to para 62-11-33 64-00 TAIL ROTOR 1. (Only when protective tape is installed on leading edge). Inspect the tape for proper adhesion, condition, wrinkles, lifting or breaking at the edges. Ref. to para 64-11-14 2 BETWEEN 5-10 FLIGHT HOURS (NEW AIRCRAFT OR AFTER REINSTALLATION OF MAJOR COMPONENTS) <u>NOTE:</u> If incorrect torque is found, recheck within next 5 to 10 hours of flight. 18-00 VIBRATION AND NOISE ANALYSIS AND ATTENUATION 1. Bolts securing vibration absorber assy to fuselage for correct torque (Ref. to para 18-61-12). 53-00 FUSELAGE 1. TAIL BOOM a. Tail boom attachment bolts for correct torque. Ref. to Para 53-31-8 62-00 MAIN ROTOR 1. Main rotor head ring nut bolts for correct torque. Ref. to Para 62-21-13	

UNSCHEDULED MAINTENANCE CHECKS (SPECIAL INSPECTIONS)

INITIAL EACH ITEM AFTER ACCOMPLISHMENT	INITIAL
63-00 MAIN ROTOR DRIVE	
1. MAIN TRANSMISSION	
a. Upper case to main case attachment nuts for correct torque. Ref. to para 63-21-23 .	
65-00 TAIL ROTOR DRIVE	
1. TAIL ROTOR (90°) GEARBOX	
a. Mounting sleeve attachment bolts for correct torque. Ref. to para 65-21-6 .	
3 AT EACH ENGINE REMOVAL	
1. POWER PLANT	
a. Before engine removal, nuts securing engine fittings to engine mounts for correct torque. Refer to Para 71-01-8 .	
b. Nuts securing engine mounts to fuselage attachments for correct torque. Refer to Para 71-21-6 .	
c. Engine mount supports for corrosion, wear and elongation of holes for bolts. Ref. to Para 71-21-7 .	
4 AT EACH BLADE RETENTION BOLT REMOVAL	
62-00 MAIN ROTOR	
1. Inspect blade retention bolt and grip bushing for condition damage and scoring.	
5 AT EACH MAIN TRANSMISSION REMOVAL	
63-00 TRANSMISSION ANTITORQUE PLATE AND DECK STRUCTURE	
1. Check transmission antitorque plate and deck structure attaching bolt holes for corrosion, wear and elongation. Ref. to para 63-21-17 .	
6 EVERY 25 FLIGHT HOURS INSPECTIONS	
64-00 TAIL ROTOR - N/A by Part Number	
1. Tail rotor blades (P/N 109-8132-01 only, ref. to B.T. 119-06) for:	
a. Voids. Ref. to para 64-11-8 .	
b. Scratches, dents and cracks. Ref. to para 64-11-8 .	
c. Clean tail rotor blade to maintain an improved visibility of warning stripes. Ref. to para 64-11-7 .	

UNSCHEDULED MAINTENANCE CHECKS (SPECIAL INSPECTIONS)

INITIAL EACH ITEM AFTER ACCOMPLISHMENT	INITIAL
7 EVERY 100 FLIGHT HOURS INSPECTION 64-00 TAIL ROTOR - A 0100RT 1. TAIL ROTOR a. Perform tail rotor dynamic balance. Ref. to para 64-00-9 and 64A-00-8. b. Inspect bushing P/N 109-0135-14-101 (internal diameter) and pitch change rod P/N 109-0135-02-101. Refer to para 64-31-10, points L and M. 76-00 ENGINE CONTROLS - A 0100RT 1. ENGINE CONTROLS a. Perform engine controls setting check. Ref. to para 76-11-8.	
8 EVERY MONTH (APPLICABLE TO P/N MB2620I00251 VENDOR P/N A344) 26-00 FIRE PROTECTION 1. Cabin fire extinguisher bottle: a. Do a detailed inspection of the fire extinguisher pressure gauge to verify the operable range indication, including the gross weight in order to check the correct range value respect the initially installation. In addition do a detailed inspection for physical damage, corrosion, leakage or clogged nozzle. Refer to Para 26-22-6 and Para 26-22-7.	
9 EVERY 12 MONTHS 31-00 INDICATING/RECORDING SYSTEM ☒ N/A by model number 1. Perform fuel calibration test procedure. Refer to para 31-41A-55. 34-00 STANDBY CONTROLS AND INDICATORS A1702RT a. Perform capacity meter calibration procedure for stored and in service battery indicator. Refer to para 31-23-13.	
10 EVERY 200 FLIGHT HOURS/12 MONTHS INSPECTION A0250.3 63-00 ROTOR DRIVE - A0250RT 1. MAIN TRANSMISSION STRUCTURAL FWD AND AFT LOWER FITTINGS a. Inspect main transmission structural fwd and aft lower fittings for corrosion, cracks and proper condition of joints. Ref. to para 63-31-10.	

INITIAL EACH ITEM AFTER ACCOMPLISHMENT	INITIAL
11 EVERY 400 FLIGHT HOURS/24 MONTHS INSPECTION	
62-00 MAIN ROTOR - A 0450RT	
1. Disconnect pitch change links and rotating scissors (removal is not required) and inspect swashplate duplex bearing for noise and roughness to rotation. Ref. to para 62-31-24.	
12 EVERY 1200 FLIGHT HOURS INSPECTION - A 1200RT	
28-00 FUEL	
1. (Only for GLOBE Fuel Pump MFR P/N 164A298) Pump brushes for wear. Ref. to para 28-21-18.	
29-00 HYDRAULIC POWER	
1. Hydraulic pumps splined shaft seat on transmission for wear. Ref. to para 29-11-27B, 29-12-27B and 63-21-39.	
13 EVERY 1600 FLIGHT HOURS INSPECTION - A1600RT	
32-00 LANDING GEAR	
1. Landing skid attachments bolts for correct torque. Ref. to para 32-11-7 and para 32A-11-7.	
63-00 MAIN ROTOR DRIVE	
1. Remove engine to transmission main drive shaft and inspect:	
a. Shaft flanges for nicks, dents, scratches and fretting. Especially on surfaces in contact with engine flange and transmission shaft flange,	
b. Transmission drive quill splines for condition and wear. Refer to A109/AW119 SERIES-OM, para 63-11-01 step 4.	
2. 00 POWER PLANT	
1. Attaching hardware securing engine mount and relative fittings secured to fuselage for correct torque. Ref. to figure 71-9. Check for evidence of torque loss (fretting, black metallic powder, bright halo in the area, cotter pin condition), if suspected retorque.	
2. Inspect end bearings of engine mounts for play. Ref. to para 71-21-7.	
3. Inspect bearing of LH and RH engine support trunnion for excessive play. Ref. to para 71-01-9.	
4. Inspect oil cooler fan bearings for free of rotation, roughness and abnormal play. Ref. to 79-21.	

INITIAL EACH ITEM AFTER ACCOMPLISHMENT	INITIAL
14 EVERY 2400 FLIGHT HOURS INSPECTION - A2400RT	
53-00 FUSELAGE	
1. UPPER DECK	
a. Transmission support assemblies and relative fittings secured to fuselage. Ref. to Para 63-31-5.	
62-00 MAIN ROTOR	
1. MAIN ROTOR CONTROLS	
a. Remove and inspect swashplate duplex bearing for damage and corrosion. Ref. to Para 62-31-25.	
b. Swashplate teflon rings (pivot sleeve and swashplate) for wear. Ref. to Para 62-31-25.	
c. Guide and pivot sleeve slot of swashplate for damage and wear. Ref. to para 62-31-25.	
2. MAIN ROTOR	
a. Grips, pitch control levers, flap and droop restrainers for condition, damage and wear (hub disassembly required). Inspect blades grips bushings (blade retention pin seat) for wear, nicks and condition. Inspect contact area between blade and grip for condition and washers bondage. Ref. to Para 62-21-23, 62- 21-18, 62-21-33, 62-21-35, 62-21-39, 62-21-55.	
b. Main rotor head installation. Ref. to Para 62-21-14.	
c. Hub floating ring for wear and DU washers and internal teflon shim for debonds. Ref. to 62-21-44.	
3. Inspect blade root bushings and blade root washers for damage and wear. Ref. to para 62-11-25 (62A-11-25), 62-11-26 (62A-11-26).	
4. Main rotor pitch change link assembly. Ref. to para 62-31-10.	
5. Inspect main rotor grip droop stop plate for wear and damage. Ref. to para 62-21- 23 step F.	
15 EVERY 2400 HOURS AND SUBSEQUENTLY AFTER 1200 HOURS OF COMPONENT OPERATION - A2410RT	
65-00 TAIL ROTOR DRIVE	
1. TAIL ROTOR (90°) GEARBOX	
a. Inspect gears for (ref. to 65-21-14):	
1) Abnormal patterns, pitting and scoring.	
2) Fretting, damage, wear, corrosion on input pinion teeth and output shaft.	

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