PLEASE REVIEW FOR EFFECTIVITY AND RETURN

101 - 8 PERIODICAL INSPECTION 600 hr / 48 Months

101 - 8.1 Periodical Inspection Basic Helicopter

Registration No.: _____ H/C Serial No.: _____ Total Hours: _____ Fh

Inspection or Maintenance Work	Reference	Initial
GENERAL		
(1) Review aircraft log book and ensure all recorded discrepancies have been corrected		
(2) Ensure compliance with all applicable airworthiness directives and manufacturer's (ECD) directives		
(3) Ensure compliance with all supplementary inspections and special inspections		
(4) Ensure life–limited parts do not exceed service life		
(5) Ensure TBO–components do not exceed TBO		
(6) Ensure all required inspections of engines, equipment and components have been performed according to respective manufacturer's documentation		
(7) Record compliance with these inspections in Historical Record		
11 - MAIN TRANSMISSION		
(1) Inspect main transmission and attached parts for condition	11-3 step 1. thru 16.	
(2) Remove magnetic plug and inspect for deposits, clean and test for magnetic retaining force	11-17, 11-18, 11-19, 02-14	
(3) **EFFECTIVITY** H/C up to S/N 690 if not installed with washers P/N 105–13104.17: Inspect underside of rotor mast flange in the area of bores, including webs between the bores, for cracks, using a magnifying glass		
12 - ROTOR BRAKE SYSTEM		
(1) Inspect rotor brake system for condition	12-3	
13 - MAIN ROTOR SYSTEM		
(1) Inspect main rotor system for condition	13-3	
(2) Remove primary bolts and secondary bolts, clean and inspect for condition; crack inspection not necessary	13-10, -11, -14, -16, -17, -18	

Table 101-8.1 - Periodical Inspection Basic-Helicopter (1 of 6)

Inspection or Maintenance Work	Reference	Initial
14 – MAIN ROTOR BLADE		
(1) Inspect main rotor blade for condition **NOTE** Note following when inspecting erosion protective shells for debonding: When first-time debonds are found, or existing debonds have increased in area, the inspection shall be repeated after 50Fh. Only when an inspection has revealed no further debonding do the periodic inspection intervals re-apply	14-2 or 14-3	
(2) **EFFECTIVITY** Discharger Adapter P/N B621M1026 201 Visualy inspection of corrosion and cracks **NOTE** Inspect adapters from now on at the periodical inspection every 600fh or 4 years (600fh or 2 years at CBS-5 KLH), deppending on witch time limit is reached first.	14-5 step 6 Not installed	
21 – FUSELAGE		
(1) Inspect following frames for cracks: – upper corners of frames 7, 8, 9, forward and aft, and diagonal frame and frame 10 – lower frame segments 7 and 8 **NOTE** Stop-drill cracks. Repair any cracks in the upper area of frames 7 and 9 and diagonal frame within the next 50Fh. Repair any cracks in the upper area of frames 8 and 10 and in the lower area of frames 7 and 8 within the next 600Fh. Check for crack propagation every 200Fh. Repair cracks which show propagation within the next 50Fh.		
(2) Inspect landing gear mounting brackets and surrounding fuselage area for condition	21-3, step 10.	
(3) Inspect transmission strut attach fittings and engine mount attach fittings for condition and inspect fuselage area adjacent to attach fittings for loose rivets and cracks	21-3, step 5 and 7	
(4) Clean, grease and functionally check jettison device of cockpit doors. Renew lead wire seal	21-4	
(5) Ensure drain holes are not obstructed	21-3, step 4.	

Table 101-8.1 – Periodical Inspection Basic-Helicopter (2 of 6)

Inspection or Maintenance Work	Reference	Initial
31 – TAIL BOOM		
(1) EFFECTIVITY Tail boom assemblies up to S/N 350 if AB 15 not accomplished: Remove tail rotor shaft fairing and visually inspect in the vicinity of the three bearing brackets P/N 105–30251.17/.18/.19 for cracks. Refer to AB 15 for further limitations	N/A	
(2) Inspect tail boom assembly for condition	31-2	
32 – TAIL ROTOR DRIVE		
(1) Inspect tail rotor drive for condition	32-3	
(2) Remove magnetic plugs of intermediate gearbox and tail rotor gearbox and test their magnetic retaining force	32-9, 02-14	
(3) EFFECTIVITY “Single webbed” type of gearbox housing (see Fig. 32-23): Visually inspect flange to housing transition area for cracks and conditions indicating presence of cracks, such as oil leakage and accumulation of dirt	N/A	
33 – TAIL ROTOR		
(1) Inspect tail rotor for condition	33-4, step 1 – 7	
(2) Without disassembly, inspect spherical bearings in fork end of tail rotor shaft	33-21, step 1.c	Put on 100 hr insp
(3) EFFECTIVITY Tail rotor blade mounting forks made from aluminum alloy P/N 105–31711, 105–31722: Remove and inspect blade mounting forks for condition	33-14 thru 33-18	
(4) Remove bellcrank assy and inspect for condition	33-9 thru 33-12	
(5) Check ball bearings of sliding sleeve for proper running and absence of play	33-27, step 14.	
(6) Remove bolt connecting tail rotor shaft to tail rotor head, and clean and inspect bolt for condition	33-21, step 1.e.	Put on 100 hour
(7) Inspect balance weight and control lever for condition	33-12C AD	
34 – TAIL ROTOR BLADE		
(1) Inspect tail rotor blades for condition	34-2	
41 – MAIN ROTOR CONTROLS		
(1) Inspect flight control components (boosted section of flight controls) located above hydraulic system including swash plate for condition	41-3	
(2) Check swash plate bearing for proper running	41-73	
(3) Check rigging of collective control forces	102-16, step 9.	
(4) Clean swash plate sliding surface on support tube. Move swash plate to uppermost position to expose sliding surface. Use cleaning solvent (CM 201, 202 or 217)		

Table 101-8.1 – Periodical Inspection Basic-Helicopter (3 of 6)

Inspection or Maintenance Work	Reference	Initial
41 – MAIN ROTOR CONTROLS		
(5) Visually inspect seals on upper rod ends of control rods for condition The following control rods are affected: – Vertical control rods below hydraulic unit (3 off) – control rods between hydraulic unit and mixing lever assy (3 off) – rotating control rods (4 off)	41-3	
(6) EFFECTIVITY Rotating control rods P/N 105–13121: Distinguishing feature of control rod: O.D. of tube is 20 mm Visually inspect reinforcement sleeves on control rod ends for cracks. Replace cracked control rods		
42 – TAIL ROTOR CONTROLS		
(1) EFFECTIVITY H/C up to S/N 310 if SB-BO105-30-17 not accomplished: Remove control rod in the tail boom and inspect chafe protection for condition and grease sliding areas	42-33, step 4. N/A	
(2) Visually inspect seals on rod end and clevis for damage Following rods are affected: – control rod in the tail boom – control rod in vertical fin (upper clevis)	42-3	
(3) Control rod in vertical fin: Visual inspect sealing of blind hole in fork end for damage		
43 – HYDRAULIC SYSTEM		
(1) Inspect switchover control linkage for play	43-17 or 43-17A	
(2) Inspect hydraulic system for condition	43-11	
(3) Spray-coat N2-lever (droop-compensation) with corrosion preventive compound (CM 508)		
(4) Check filter contamination indicator (lateral indicator pin configuration)	43-14	
(5) Functionally test hydraulic system	43-15	
(6) Perform ground run check of selector valve setting	43-16 or 43-16A	AD
(7) Inspect system 1 selector valve for corrosion	43-13	
51 – LANDING GEAR		
(1) Inspect landing gear for condition	51-2	
61 – ENGINE		
(1) Inspect exhaust clamps for corrosion and cracks	61-34	
(2) Inspect engine accessories and mounting struts for condition	61-3	

Table 101-8.1 – Periodical Inspection Basic-Helicopter (4 of 6)

Inspection or Maintenance Work	Reference	Initial
61 – ENGINE		
(3) Remove anti-icing valve actuators and inspect mounting brackets for condition	61-37 thru 61-39	
(4) Remove chip detectors and test their magnetic retaining force NOTE For removal and installation procedures, see Allison OMM 10W2 or 5W2 as applicable	02-14	
62 – FUEL SYSTEM		
(1) Inspect fuel lines in the engine compartment for condition	62-3	
(2) Check fuel differential pressure switch for function	62-39 Done with other check	
(3) Perform functional test and leakage test of fuel shutoff valves	92-82, 92-83	
63 – LUBRICATION SYSTEM		
(1) EFFECTIVITY Ram air ventilation not installed: Visually inspect baffle plate, located between oil cooler and fan, and attaching clamps for cracks	Must comply	
(2) Inspect lubrication system for condition	63-3	
(3) Remove oil drain plugs of oil tank and test the magnetic retaining force of their respective magnetic plugs	63-4, step 1.b, 02-14	
64 – FIREWALLS		
(1) Inspect fire walls for condition	64-2	
65 – ENGINE OPERATION AND CONTROL		
(1) Inspect engine operation and control linkages for condition	65-3	
700 – STANDARD EQUIPMENT		
(1) Inspect pilot and copilot seats for condition	701-2	
(2) Inspect cabin equipment for condition	702-2	
(3) Inspect cabin ventilation for condition, check for function	704-2	
(4) Inspect identification and other markings for legibility, and adhesive-backed decals for damage and proper adhesion		
(5) Inspect harnesses, buckles and inertia reels for condition	701-2 step 5., 6. and 7.	
91 – INSTRUMENT SYSTEM		
(1) Ventilate dual torque indication system	91-57	
(2) Inspect instruments for condition	91-4	
(3) Clean and drain pitot-static system, inspect for condition and check for function	91-9 thru 91-12	
(4) Inspect magnetic compass for condition and function and compensate magnetic compass Requires master compass	91-24 thru 91-26	

Table 101-8.1 – Periodical Inspection Basic-Helicopter (5 of 6)

Inspection or Maintenance Work	Reference	Initial
91 – INSTRUMENT SYSTEM		
(5) Calibrate TOT indication system Requires Barfield	91-45	
(6) Inspect instrument panel, center panel and overhead panel for presence, legibility amd security of labels and placards NOTE Replace missing placards and rebond separated placards		
92 – ELECTRICAL SYSTEMS		
(1) Inspect battery bonding jumper for tight installation and unimpaired surface protection		
(2) Check voltage regulator setting Required calibrated volt meter	92-17	
(3) Inspect socket of anti-collision light for condition	92-116	
(4) Remove starter-generator and inspect carbon brushes Might need run in	92-20, 92-20A	
(5) Inspect battery–temperature warning Done during deep cycle	92–34E	

Table 101-8.1 – Periodical Inspection Basic-Helicopter (6 of 6)

Technician	Date:	Inspector	Date:
Name	Signature	Stamp	Signature

101 – 8.2 Periodical Inspection Optional Equipment

Registration No.: _____ H/C Serial No.: _____ Total Hours: _____ Fh

Inspection or Maintenance Work	Reference	Initial
GENERAL		
(1) Review aircraft log book and ensure all recorded discrepancies have been corrected		
(2) Ensure compliance with all applicable airworthiness directives and manufacturer's (ECD) directives		
(3) Ensure compliance with all supplementary inspections and special inspections		
(4) Ensure life–limited parts do not exceed service life		
(5) Ensure TBO–components do not exceed TBO		
(6) Record compliance with these inspections in Historical Record		
831 – LONG RANGE FUEL TANK		
(1) Check long range fuel tank for condition (if tank remains installed)	831-4 Not Installed	
836 – RESCUE HOIST ASSEMBLY		
(1) Lubricate winch unit Not installed	836-22	
845 – CHIP WARNING INDICATION		
(1) Remove chip detector, check, clean, test for function and test magnetic retaining force Ball bearings required	845-4, 845-5, 845-6, 02-14	
854 – MAIN ROTOR BLADE FOLDING SYSTEM		
(1) Remove locking lever assembly, clean and inspect for condition (crack inspection not required)	854-3, step 1 Must comply	
(2) Remove locking lever assembly		
– Clean and inspect nickel–plated bolts for condition, and provide with corrosion protection (crack inspection not required)	854-3, step 1.a and 854-4, step 2.f	
– Clean and inspect solid film lubricant-coated bolts for condition (crack inspection not required). Coat bolt with lubricant (CM146)	854-3, step 1.b and 854-4, step 2.g	

Table 101-8.2 – Periodical Inspection Optional Equipment (1 of 2)

Inspection or Maintenance Work	Reference	Initial
857 – CONTINUOUS IGNITION SYSTEM		
(1) Check spark igniters for condition Installed	857-4	
(2) Visually inspect noise suppressor and accessible parts of wiring for condition Part of continuous ignition	857-4	

Table 101-8.2 – Periodical Inspection Optional Equipment (2 of 2)

Technician	Date:	**Inspector**	Date:
Name	Signature	Stamp	Signature

101 – 9 E TENDED PERIODICAL INSPECTION

101 – 9.1 E tended Periodical Inspection Basic Helicopter

Registration No.: _____ H/C Serial No.: _____ Total Hours: _____ Fh

Inspection or Maintenance Work	Reference	Initial
GENERAL		
(3) Review aircraft log book and ensure all recorded discrepancies have been corrected		
(4) Ensure compliance with all applicable airworthiness directives and manufacturer's (ECD) directives		
(5) Ensure compliance with all supplementary inspections and special inspections		
(6) Ensure life–limited parts do not exceed service life		
(7) Ensure TBO–components do not exceed TBO		
(8) Ensure all required inspections of engines, equipment and components have been performed according to respective manufacturer's documentation		
(9) Record compliance with these inspections in Historical Record		
11 – MAIN TRANSMISSION		
(1) Inspect main transmission and attached parts for condition	11-3, step 1 thru 16	
(2) Remove magnetic plug and inspect for deposits, clean and test for magnetic retaining force	11-17, 11-18, 11-19, 02-14	
(3) EFFECTIVITY H/C up to S/N 690 if not installed with washers P/N 105–13104.17: Inspect underside of rotor mast flange in the area of bores, including webs between the bores, for cracks, using a magnifying glass	Tracked by AD	
12 – ROTOR BRAKE SYSTEM		
(1) Inspect rotor brake system for condition	12-3	
13 – MAIN ROTOR SYSTEM		
(1) Inspect main rotor system for condition	13-3	
(2) Remove primary bolts and secondary bolts, clean and inspect for condition; crack inspection not necessary	13-10, -11, -14, -16, -17, -18	

Table 101-9.1 – Extended Periodical Inspection Basic-Helicopter (1 of 5)