

101 - 10 SUPPLEMENTARY INSPECTION ACCORDING TO OPERATING TIME IN FH AND/OR CALENDAR TIME

101 - 10.1 Supplementary Inspection according to Operating Time in Fh and/or Calendar Time Basic Helicopter

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

Inspection or Maintenance Work	Interval	Reference	Initial
11 - MAIN TRANSMISSION			
(1) EFFECTIVITY Bolts with P/N 105-60701.15/.16: Remove bolts and inspect for condition	150Fh	11-54, 11-55, part A, step 10 or part B, step 5	NA
(2) EFFECTIVITY Drive flange P/N 4619 302 037 on main transmission: Check torque of screw on drive flange. If torque is too low, remove drive flange and inspect for damage	300Fh	11-59, step 1 and 2, 11-60, step 11	NA
(3) Remove input drive shafts and inspect for condition	4800Fh or 6 years, whichever occurs first	11-54 thru 11-56	
(4) Remove transmission mounting struts and inspect for condition	3000Fh	11-50 thru 11-52	
(5) EFFECTIVITY Borg Warner free wheel unit P/N 4638202007: Remove freewheel unit and inspect for condition	1200Fh TSN, then every 600Fh	11-60, 11-64, 11-67	
(6) EFFECTIVITY Kaflex shafts made by Kamatics Company: Remove drive shafts and send to manufacturer for assessment	6000Fh or 9 years, whichever occurs first	11-54	NA
(7) EFFECTIVITY No electrical chip detector installed, pre SB BO105-10-126: Inspect magnetic plug of main transmission for deposits and clean magnetic plug	10 Fh	11-18	NA
(8) EFFECTIVITY Pre SB BO105-10-126: Inspect and cleaning of oil filter	100Fh	11-13	NA - But should do
(9) EFFECTIVITY Post SB BO105-10-126: Inspect and cleaning of oil filter	600Fh or 12 months, whichever occurs first	11-13	

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Inspection or Maintenance Work	Interval	Reference	Initial
13 - MAIN ROTOR SYSTEM			
(1) EFFECTIVITY Quadruple nuts P/N 105-14101.54/.55: Remove quadruple nuts and inspect for cracks	1200Fh	REM106	NA
(2) EFFECTIVITY Bolts P/N 105-14101.76/.77: Remove bolts and inspect for cracks	1200Fh	REM106	NA
(3) EFFECTIVITY Quadruple nuts P/N 105-14101.19/.20: Remove upper and lower quadruple nuts and inspect for cracks NOTE Quadruple nuts with serial numbers listed below do not require periodic inspections during their service life. For these quadruple nuts it is also not necessary to install quadruple nuts with the same serial number (also refer to SB 10-18). Serial numbers: Quadruple nuts, upper 105-14101.19 S/N 63, 145 thru 151, 153 thru 172, 197, 198, 212 thru 221, 247, 249 thru 251, 269, 270, 272 thru 281, 283, 290 thru 293 Quadruple nuts, lower 105-14101.20 S/N 63, 145 thru 151, 153 thru 171, 197, 213 thru 221, 247, 249 thru 251, 269 thru 283, 290, 292	1200Fh TSN, then every 300Fh	REM 106	NA
(4) EFFECTIVITY Bolts P/N 105-14101.22/.23: Remove bolts and inspect for cracks	1200Fh TSN, then every 300Fh	REM 106	NA
(5) EFFECTIVITY Main rotor head P/N 105-14101: Remove main rotor head and inspect for condition per REM 106	1800Fh or 3 years, whichever occurs first	13-6, REM106	NA
(6) EFFECTIVITY Main rotor head P/N 105-14104: Remove main rotor head and inspect for condition per REM 106	2400Fh or 4 years, whichever occurs first	13-6, REM106	NA NA
(7) EFFECTIVITY Quadruple nuts P/N 1121-14102.19/.20: Remove quadruple nuts and inspect for cracks	2400Fh	REM106	NA
(8) EFFECTIVITY Bolts P/N 1121-14102.22/.23: Remove bolts and inspect for cracks	2400Fh	REM106	NA

Table 101-10.1 - Supplementary Inspection according to Operating Time in Fh and/or Calendar Time Basic Helicopter (2 of 7)

Inspection or Maintenance Work	Interval	Reference	Initial
13 - MAIN ROTOR SYSTEM			
(9) Remove, clean and inspect primary and secondary bolts for cracks and condition	2400Fh	13-10, 13-11, 13-14 and 13-16 thru 13-18	
(10) Remove, disassemble and inspect driving link assembly for condition	3000Fh	13-20 thru 13-24	
(11) EFFECTIVITY Main rotor head : P/N 105-141081 (PRE ASB-BO 105-10-113); P/N 105-141091 (POST ASB-BO 105-10-113): Remove main rotor head and inspect for condition per REM 106	4800Fh or 8 years TSN, whichever occurs first, then every 4800Fh or 6 years, whichever occurs first	13-6, REM106	
14 - MAIN ROTOR BLADE			
(1) Remove main rotor blade and inspect 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.	1200Fh	14-4, 14-5	
21 - FUSELAGE			
(1) Inspect bores in the engine mounting fittings for wear	3000Fh or when engine(s) is removed, whichever occurs first	21-3	
(2) Inspect doors, windows, structure and tailboom connecting flange for condition	2400Fh	21-3, step 1, 2, 3 and 9	
(3) Visually inspect frame 2L of tail boom (fuselage side) for cracks NOTE Depending on the operational spectrum of the helicopter and on the existing environmental conditions, different inspection intervals may be established upon consultation with ECD.	2400Fh or 6 years TSN, whichever occurs first, then every 1800Fh or 3 years, whichever occurs first	21-3	

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Inspection or Maintenance Work	Interval	Reference	Initial
21 - FUSELAGE			
(4) Visually inspect connecting flange of tail boom (fuselage side) and adjacent fuselage areas for condition and cracks, using a magnifying glass NOTE Depending on the operational spectrum of the helicopter and on the existing environmental conditions, different inspection intervals may be established upon consultation with ECD.	2400Fh or 6 years TSN, whichever occurs first, then every 1800Fh or 3 years, whichever occurs first	21-3	
(5) Inspect spherical bearings and claw bushings in main transmission fittings for condition and play	3000Fh	21-3	
22 - COWLINGS			
(1) Remove cowlings and inspect for condition	2400Fh	22-2 thru 22-5	
31 - TAIL BOOM ASSEMBLY			
(1) Remove tail boom and inspect interior and exterior for condition NOTE Depending on the operational spectrum of the helicopter and on the existing environmental conditions, different inspection intervals may be established upon consultation with ECD.	2400Fh or 6 years TSN, whichever occurs first, then every 1800Fh or 3 years, whichever occurs first	31-2, 31-5, 31-6	
32 - TAIL ROTOR DRIVE			
(1) EFFECTIVITY Tail rotor drive with Bendix shafts and coupling: Remove shafts and coupling and inspect their exterior and interior surfaces for condition	2400Fh or 4 years, whichever occurs first	32-36, 32-46, 32-40, 32-50	
(2) EFFECTIVITY Tail rotor drive with laminated disk coupling: Remove, disassemble and inspect forward short driveshaft, couplings, long driveshaft and aft short driveshaft in vertical fin for condition	3600Fh or 6 years, whichever occurs first	32-11 thru 32-34	
(3) Remove intermediate gearbox and tail rotor gearbox and inspect for condition	3600Fh or 6 years, whichever occurs first	32-55 thru 32-57 and 32-59 thru 32-61	
33 - TAIL ROTOR			
(1) Measure play between blade mounting fork and inner sleeve	1200Fh	33-16, step 1.	

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Inspection or Maintenance Work		Interval	Reference	Initial
33 - TAIL ROTOR				
(2)	Remove bolts connecting laminated strap pack to blade mounting forks, and inspect for condition	1200Fh or 6 years, whichever occurs first	33-16, step 5.	
(3)	Remove, disassemble and inspect tail rotor head for condition	2400Fh or 6 years, whichever occurs first	33-14 thru 33-17	
(4)	Inspect tail rotor shaft for play	2400Fh	33-4, step 8	
34 - TAIL ROTOR BLADE				
(1)	Remove the tail rotorblades. Inspect erosion protection for debonds. Inspect attachment area for damages. Inspect tail rotor blades for cracks in surface protection. It is not necessary to remove the cover tape in the nose shell area.	300Fh	34-2, steps 2., 4. thru 9., 12.,13.	
(2)	Remove tail rotor blade and inspect for condition	2400Fh	34-2, 34-4, 34-5	
41 - MAIN ROTOR CONTROLS				
(1)	Inspect bearing forks of swashplate control ring and swashplate bearing ring for cracks	300 Fh	41-3 step 4.d	
(2)	EFFECTIVITY Pitch shaft without bonded brake pads: Inspect pitch shaft for condition	1200Fh	41-55	NA
(3)	Remove, disassemble control rods and inspect for condition. The following control rods are affected: - control rods between hydraulic unit and mixing lever assy (3 off) - rotating control rods (4 off)	3000Fh or 4 years, whichever occurs first	41-76 thru 41-83	
(4)	Remove compression springs of longitudinal and lateral trimmers, clean and inspect for condition. Lubricate spring case	4 years	41-27 thru 41-34	

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Inspection or Maintenance Work		Interval	Reference	Initial
41 - MAIN ROTOR CONTROLS				
(5) Remove all bolts from the boosted section of the main rotor controls (i.e. above hydraulic unit) and inspect for condition and cracks NOTE Crack inspection per dye penetrant method ASTM-E-1417 or magnetic particle method ASTM-E-1444. The following bolts are affected: - lower and upper bolts of the 3 control rods between tandem hydraulic unit and mixing lever assy - lower and upper bolts of the 2 control rods between mixing lever assy and swash plate - lower and upper bolts of the 4 rotating control rods		3000Fh or 4 years, whichever occurs first		
NOTE Perform inspections (5), (6) and (7) on the occasion of main transmission overhaul, if possible				
(6) Remove, disassemble mixing lever assembly and inspect for condition		3000Fh	41-65 thru 41-70	
(7) Inspect swash plate for condition		3000Fh	REM 403	
(8) Remove control rods between mixing lever assy and swash plate and inspect for condition		3000Fh	41-78, 41-80, 41-83	
42 - TAIL ROTOR CONTROLS				
(1) Inspect tail rotor controls for condition		1200Fh	42-3	
43 - HYDRAULIC SYSTEM				
(1) Inspect flat springs of hydraulic system II for correct functioning		1200Fh TSN, then every 300Fh	43-19	
(2) Remove, disassemble and inspect control rods for condition		3000Fh or 4 years, whichever occurs first	43-36, 43-37, 41-79, 41-80	
(3) Change filter elements NOTE If the hydraulic unit was not returned to service after filter replacement, the filter need not be replaced again until 2 years after return to service		2 years	43-31, 43-32	

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Inspection or Maintenance Work		Interval	Reference	Initial
43 - HYDRAULIC SYSTEM				
(4) EFFECTIVITY	Bushings P/N 105-45511: Distinguishing feature: These bushings can be rotated in installed position. Remove hydraulic unit and inspect guide bushings of couplings for play	2400Fh TSN, then every 600Fh	43-11, step 14.	NA
51 - LANDING GEAR				
(1)	Inspect the internal cross tubes for corrosion	600Fh	51-2	
61 - ENGINE				
(1)	Inspect exhaust clamps for corrosion and cracks	300Fh	61-34	B0052NT
(2)	Remove engine mounts and inspect for condition NOTE If the associated engine is to be removed within 600Fh after the inspection is due, the inspection can be performed concurrently with engine removal.	2400Fh	61-8 thru 61-19	
(3)	Remove engine stub shaft and inspect for condition	3000Fh or 6 years, whichever occurs first	61-40	
63 - LUBRICATION SYSTEM				
(1) EFFECTIVITY	H/C with scavenge oil filters: Remove and replace filter elements of scavenge oil filters	with each engine oil change according to manufacturer's instructions	63-30	
700 - STANDARD EQUIPMENT				
(1)	Inspect interior paneling and floor covering for condition	2 years	703-2	
92 - ELECTRICAL SYSTEMS				
(1)	Remove battery and inspect for condition in accordance with manufacturer's instructions	Time and scope of inspection in accordance with manufacturer's instructions	92-27	
(2)	Inspect components of electrical system for condition	2400Fh	92-4	
(3)	Deleted			

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