

PROGRESSIVE INSPECTIONS

5-16. 100-HOUR AIRFRAME PROGRESSIVE INSPECTION — EVENT NO. 1

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
	DATE: _____ W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY NO.: _____ TOTAL TIME: _____ SIGNATURE: _____ ZONE 1 — MAIN ROTOR SYSTEM <u>PLACARDS AND MARKINGS</u> 1. Examine the placards, decals and markings. Make sure they are readable, correctly applied and in agreement with the applicable configuration of your helicopter. <u>MAIN ROTOR SYSTEM</u> 1. Verify main rotor flap restraint for freedom of movement, and for condition and security. 2. Examine static stops and mast for evidence of mast bumping. 3. Remove main rotor blade leading edge erosion protection tape, if installed. 4. Examine main rotor blades for cleanliness and overall condition. Examine for cracks, corrosion and de-bonding of doublers. 5. Examine leading edge of blades for corrosion and erosion. Restore contour as necessary. 6. Examine the tip weight cap for corrosion, cracks, erosion, and deformation.		

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DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
BHT-206L-CR&O	7. If applicable, reinstall main rotor blade leading edge erosion protection tape. 8. Examine the following main rotor hub assembly components for condition and security: a. Mast nut b. Trunnion c. Pillow blocks d. Grips e. Pitch horns f. Static stops 9. Examine pitch horn trunnion bearings for evidence of wear, damage, and for security. 10. Torque check pillow block retention hardware 84 to 107 inch-pounds (9.4 to 12 Nm). Examine for misalignment of anti-slippage marks (ASB 206L-97-108). 11. Examine main rotor yoke for corrosion or mechanical damage as follows: a. Examine fillet radius of both yoke spindles inboard of wear sleeves for evidence of corrosion. If corrosion is visible, remove with fine abrasive pad (C-407). If corrosion cannot be removed with pads, or is extensive, disassemble hub for inspection and repair. NOTE If the main rotor hub must be disassembled, omit remaining steps. b. Examine entire yoke centre section (inboard and outboard surfaces) for damage.		

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DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
	c. Touch up all repaired areas or areas of bare metal in accordance with applicable main rotor hub inspection and repair instructions. d. Ensure no sealant voids are visible around shields or wear sleeve, strap fittings, and grip closure. Recoat with sealant (C-308) as required. On main rotor hub assemblies up to and including P/N 206-011-100-025, coat the remaining exposed fillet radius and repaired surfaces with a film of corrosion preventive compound (C-101). ZONE 2 — TAIL ROTOR ASSEMBLY <u>PLACARDS AND MARKINGS</u> 1. Examine the placards, decals and markings. Make sure they are readable, correctly applied and in agreement with the applicable configuration of your helicopter. <u>TAIL ROTOR ASSEMBLY</u> 1. Clean tail rotor blades to maintain visibility of warning stripes. 2. Examine the following tail rotor hub assembly components for condition and security of attachment: a. Yoke b. Pitch horns c. Trunnion and trunnion caps d. Counterweight hardware 3. Examine tail rotor blades as follows: a. Tip block rivets for damage, corrosion, erosion, and looseness. b. Skin for bulges, nicks, dents, scratches, or other damage.		

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DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
Chapter 11	c. Deformed or cracked skin in the area of the chordwise weights. d. Leading edge for erosion, nicks, dents or scratches. e. Bonded joints of blade skin mating area for suspected voids or cracks. Pay particular attention in the area of tip block and doublers. f. Feathering bearings for looseness and cracks in uniball. 4. Examine the following tail rotor hub and blade assembly attaching components for condition and security: a. Spacer b. Rubber bumper c. Static stop d. Nut e. Balance wheel		
	ZONE 3 — FORWARD DECK <u>PLACARDS AND MARKINGS</u> 1. Examine the placards, decals and markings. Make sure they are readable, correctly applied and in agreement with the applicable configuration of your helicopter. <u>AIRFRAME (FORWARD DECK)</u> 1. Open and examine forward fairing for condition and security. 2. Remove and examine transmission cowling for condition. 3. Examine all fairing and cowling latches and/or fasteners for condition 4. Examine top deck for condition, leaks and security.		
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DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
Chapter 53	5. Clean transmission deck. 6. Examine air induction cowlings and plenum for damage, obstructions and cleanliness. Examine intake fairing windows for damage and cleanliness. 7. Examine inlet screen (if applicable) for missing or damaged wires and rivets. 8. Examine particle separator (if applicable) vortex tubes, ejector tubes, and ejector nozzles for cleanliness, condition, and security. 9. Examine forward deck drain(s) to ensure absence of obstruction. 10. Examine antennas for condition and security.		
Chapter 67	<u>CONTROLS</u> 1. Examine the following flight control components for signs of interference, corrosion, wear, mechanical damage and security: a. Control tubes. b. Links. c. Rod and bearings. d. Bellcranks. e. Bellcrank supports. f. Attaching bolts and nuts. 2. Inspect main rotor pitch links with a 3X magnifying glass for damage, corrosion and cracks. Give particular attention to swaged ends at jam nut or inserts.		
Chapter 76	3. Examine N₂ control linkages on forward deck for condition and security. Pay particular attention to the jackshaft assembly for damage or evidence of twisting.		

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		MECH	OTHER
Chapter 62	4. Verify all control tubes and bellcranks for freedom of travel throughout range. <u>SWASHPLATE ASSEMBLY AND MAST</u> 1. Clean swashplate assembly and mast. 2. Disconnect main rotor pitch links from outer ring. 3. Disconnect idler (drive) link from outer ring. 4. Examine swashplate drive assembly for axial, radial, and accumulative wear. 5. Disconnect boot from swashplate outer ring and lift up temporarily. Examine boot for evidence of deterioration. 6. Verify condition of duplex bearing, before lubrication, as follows: a. Rotate outer ring to check duplex bearing for condition. Bearing must be smooth and show no evidence of roughness, binding, dragging, or looseness. 7. Examine pivot sleeve slot sidewalls for wear or deterioration. 8. Examine pivot sleeve bearings for wear, deterioration and evidence of excessive axial play between pivot sleeve and swashplate support. 9. Examine collar set bushings for cracks and damage. 10. Examine swashplate support and uniball surfaces for condition. 11. Examine collective lever to sleeve assembly pins for condition. 12. Examine inner ring for condition. Examine for evidence of contact with sleeve assembly. 13. Examine outer ring for condition.		

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DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
Chapter 63 Chapter 62 Chapter 29 Chapter 67 Chapter 12 Chapter 63	14. Examine the upper inside diameter of swashplate support for evidence of contact with the mast pole. 15. Connect and secure boot, idler (drive) link and main rotor pitch links to outer ring. 16. Examine swashplate assembly for condition and security. 17. Examine mast for condition. 18. Ensure no sealant voids are visible around the swashplate drive collar set. Re-coat with adhesive (C-307) as required. <u>HYDRAULIC SYSTEM</u> 1. Examine rigid and flexible fluid lines for chafing, leaks and security. 2. Examine hydraulic pump for leaks and general condition. 3. Examine hydraulic reservoir for leaks and general condition. 4. Examine servo actuators for leaks, condition and security. 5. Examine servo actuator support for condition. 6. Verify linkage pivot bolts on hydraulic servo actuators for freedom of rotation and security. 7. Examine hydraulic filter red indicator button (two locations). Button should not be extended. 8. Verify fluid level in hydraulic tank. Replenish as required. Replace fluid if color has changed color or if fluid emits bad odor. 9. Examine manifold, relief valve, and solenoid valve for leaks, condition and security. <u>TRANSMISSION AND PYLON ASSEMBLY</u> 1. Examine the following pylon support components:		

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DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
	a. Transmission link assemblies and bearings for damage and deterioration. b. Nodal beam flexures for condition and security. c. Forward and aft nodal beam deck supports for condition and security. d. Nodal beam stops for evidence of excessive contact with nodal beam arms. e. Transmission restraint for damage and spherical bearings for excessive wear and security. f. Stop mount for condition and security. Stop mount bushings for wear. g. All pylon support elastomeric components for evidence of deterioration. h. All pylon support hardware for security of attachment. 2. Examine transmission assembly for condition and security. 3. Examine transmission assembly for evidence of oil leakage. 4. Examine all fluid lines for chafing, damage and evidence of leakage. 5. Examine transmission oil for evidence of contamination. 6. Examine transmission oil filter bypass indicator for condition. Bypass button should not be extended. 7. Inspect all transmission chip detectors for accumulated material. 8. Perform functional test of all transmission chip detectors. 9. Ensure no sealant voids are visible around forward and aft nodal beam deck mounted supports and isolation mount. Recoat with sealant (C-308) as required.		

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DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
Chapter 63	<u>MAIN DRIVESHAFT</u> 1. Examine main driveshaft as follows: NOTE TEMP-PLATE indicator dots are of a white or gray color that turn black when exposed to an overtemperature condition. Chemical contamination can also cause the indicating dots to turn black. a. For 206L3 helicopters, examine main driveshaft for visual damage and couplings for grease leakage. Check driveshaft for freedom and smoothness of axial movement. Inspect bolts for security. Inspect TEMP-PLATES for evidence of overheating indication, deterioration, debonding, or excessive discoloration of the epoxy overcoating. 2. For 206L3+ IGW Upgrade helicopters, examine the engine to transmission KAflex driveshaft for condition and security. Examine the components as follows: a. Driveshaft for cracks, corrosion, and surface damage. b. Flexframe and bolts for condition and signs of slippage.		
Chapter 96	<u>ELECTRICAL</u> 1. Examine all electrical components, wires, cables and connectors in the area of the forward deck and transmission for chafing, general condition, and security.		
Chapter 12	<u>GROUND RUN</u>  CAUTION GROUND RUN OF HELICOPTER TO BE ACCOMPLISHED BY QUALIFIED PERSONNEL ONLY. 1. Make sure applicable servicing requirements have been carried out.		

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DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
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BHT-206L3-FM-1 (BHT-206L4-FM-1 for 206L3+ IGW Upgrade)	2. Check oil level of transmission, hydraulic tank, engine and rail rotor gearbox prior to running helicopter.		
	3. Make sure that helicopter is ready for ground run and that surrounding area is clear.		
	4. Start the helicopter and conduct ground run at 100% N_R to check for leaks and ensure all systems are operational and parameters are within Flight Manual limitations.		

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		MECH	OTHER
	DATE: _____ W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY NO.: _____ TOTAL TIME: _____ SIGNATURE: _____ ZONE 4 — POWER PLANT <u>PLACARDS AND MARKINGS</u> 1. Examine the placards, decals and markings. Ensure they are readable, correctly applied and in agreement with the applicable configuration of your helicopter. <u>AIRFRAME (POWER PLANT AREA)</u> 1. Examine firewalls for condition and security. 2. Examine engine pan area for evidence of loose fasteners and damage. Restore cracked or missing sealant form engine pan. 3. Examine engine pan drains. Make sure that they are not clogged. 4. Examine airframe fuel filter assembly for evidence of leakage and security. 5. Examine engine mount legs for condition and security. Pay particular attention for loose fasteners. 6. Examine engine mount fittings for condition and security. 7. Examine rotor brake (if installed) for condition and security.		
Chapter 11			
Chapter 71			
Chapter 28			
Chapter 71			
Applicable Service Instruction			

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DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
Chapter 71	b. Check freedom of full throttle grip travel and idle release operation. Return to closed position. Check copilot throttle if installed. c. Ensure fuel control stop lever contact with minimum and maximum stops before throttle grip reaches travel limit. NOTE If dual controls are installed, it is permissible for pointer to be 0.078 inch (1.98 mm) below 40° mark when copilot twist grip is used. d. Rotate throttle grip to idle detent, fuel control pointer should be no more than 0.01 inch (0.25 mm) below the 40° mark on the quadrant. e. Verify control linkage for excessive looseness, lost motion, and binding. 14. Verify operation of engine N₂ control as follows: a. Position N₂ governor actuator to full DECREASE (extended). b. Lift collective stick full up. c. Position N₂ governor actuator to full INCREASE (retracted). d. Verify for clearance between governor stop and lever stop arm. e. Lower collective stick full down. f. Position N₂ governor actuator to full DECREASE (extended). g. Verify for clearance between governor stop and lever stop arm. h. Verify control linkage for excessive looseness, lost motion, and binding.		

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DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
	<u>DRIVETRAIN</u>		
Chapter 63	1. Examine freewheel assembly for condition, leaks, and security.		
Chapter 63 Chapter 96	2. Examine the freewheel unit chip detector for accumulated material. Perform operational check of freewheel unit chip detector. (Refer to transmission chip detector caution system.)		
Chapter 65	3. Examine forward short shaft (steel) disc pack couplings for condition and security.		
	4. Examine forward short shaft (steel) splined adapters for adequate lubrication and freedom of movement.		
	5. Torque check forward short shaft disc pack coupling fasteners 50 to 70 inch-pounds (5.7 to 7.9 Nm). For 206L3+ IGW Upgrade helicopters, torque check forward short shaft disc pack coupling fasteners 150 to 180 inch-pounds (16.9 to 20.3 Nm).		
Chapter 96	<u>ELECTRICAL</u>		
	1. Examine all electrical components, wires, cables, and connectors in the power plant area for chafing, general condition, and security.		
	2. Verify illumination of airframe fuel filter caution light by depressing differential switch "press to test" button on filter head.		
	ZONE 5 — AFT TOP DECK		
	<u>PLACARDS AND MARKINGS</u>		
Chapter 11	1. Examine the placards, decals and markings. Ensure they are readable, correctly applied and in agreement with the applicable configuration of your helicopter.		
	<u>AIRFRAME (AFT TOP DECK)</u>		
Chapter 71	1. Remove and examine aft fairing and attachment fasteners for condition and security.		

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DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
	2. Examine fairing retainer for condition. 3. Examine exterior of aft deck structure for condition. <u>OIL SYSTEM</u> 1. Examine oil cooler area for evidence of oil leaks. Examine oil cooler pan for cleanliness and make sure the drain is not blocked. 2. Examine all flexible and rigid fluid lines for condition and security. a. Pay particular attention for chafing damage and kinked lines. 3. Examine oil cooler core for obstructions and cleanliness. 4. Examine oil cooler blower and housing for cleanliness, condition and security. 5. Examine oil tank for leakage, condition and security. Check oil for contamination. 6. Examine oil tank supports for condition and security. 7. Examine the oil cooler seals bonded inside the aft fairing for condition. 8. Examine external scavenge oil filter system (STC) (if installed) for condition and security. <u>DRIVETRAIN</u> 1. Examine the blower impeller for condition. 2. Examine oil cooler blower impeller shaft for condition. 3. Examine oil cooler blower hanger bearings and brackets for grease leakage and evidence of overheating. 4. Examine aft short shaft (aluminium) for condition and security.		

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5-18. 100-HOUR AIRFRAME PROGRESSIVE INSPECTION — EVENT NO. 3

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
	DATE: _____ W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY NO.: _____ TOTAL TIME: _____ SIGNATURE: _____ ZONE 6 — TAILBOOM <u>PLACARDS AND MARKINGS</u> 1. Examine the placards, decals and markings. Ensure they are readable, correctly applied and in agreement with the applicable configuration of your helicopter. <u>TAILBOOM STRUCTURE</u> NOTE In the event that cracks are found during inspection of tailboom, contact Bell Helicopter Textron, Product Support Engineering. 1. Examine tailbooms 206-033-004-045 and prior, modified in accordance with ASB 206L-87-47 as follows: a. Remove tail rotor driveshaft and gearbox fairings. Inspect for condition and attachment of fasteners. b. Remove a sufficient amount of anti-chafing tape to permit inspection of tailboom skin adjacent to tail rotor driveshaft cover retention clips aft of horizontal stabilizer, and in area of double row of rivets attaching tail rotor gearbox support fitting to tailboom (BS 174).		

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5-18. 100-HOUR AIRFRAME PROGRESSIVE INSPECTION — EVENT NO. 3 (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
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Chapter 53 BHT-206-SRM	c. Prior to cleaning, use a minimum 5X magnifying glass to inspect for cracks and signs of developing cracks at the following locations: (1) Aft of stabilizer assembly, around rivets, which attach tail rotor driveshaft cover retention clips to tailboom. (2) Area of tail rotor gearbox fairing attachment nutplate rivets. (3) Area of double row of rivets, which attach tail rotor gearbox support fitting to tailboom (BS 174). d. Clean entire tailboom taking particular care to remove all grime and dirt in specified area of inspection and perform inspection using minimum 5X magnifying glass. e. Examine entire tailboom for cracks, dents, deformation, waviness, working rivets, and chafing between tailboom skin and fairing. Pay particular attention to rivets attaching the tail rotor gearbox support to the tailboom. f. Replace any loose or working rivets found. g. Replace removed, damaged, or worn anti-chafing adhesive tape (C-460) as required. h. Inspect doubler and clip edge sealant for integrity. Reseal as required. i. As applicable to tailbooms modified in accordance with ASB 206L-99-115, examine doubler around stabilizer on left side for integrity of sealant. Reseal as required. 2. Inspect tailbooms P/N 206-033-004-143 and subsequent as follows: a. Remove tail rotor driveshaft and gearbox fairings. Inspect for condition and attachment of fasteners. b. Check anti-chafing adhesive tape (C-460) on tailboom for condition. Replace worn or damaged tape as required.		

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5-18. 100-HOUR AIRFRAME PROGRESSIVE INSPECTION — EVENT NO. 3 (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
BHT-206-SRM	c. Inspect entire tailboom for cracks, dents, deformation, working rivets, and chafing between tailboom skin and fairing. Pay particular attention to rivets attaching the tail rotor gearbox support to the tailboom.		
	d. Replace any loose or working rivets found.		
	e. Inspect all clip edges for integrity of sealant. Reseal as required.		
	f. As applicable to tailbooms modified in accordance with ASB 206L-99-115, examine doubler around stabilizer on left side for integrity of sealant. Reseal as required.		
	3. Examine horizontal stabilizer for condition and security of attachment. Verify security of all attachment bolts.		
	4. Examine elevators for condition, security of attachment, and side play.		
	5. Examine auxiliary finlets for condition and security.		
	6. Inspect the vertical fin attachment support for condition and damage. Pay particular attention to the vertical fin attachment points.		
	7. Examine vertical fin assembly for condition and security.		
	8. Examine vertical fin and tail skid for condition, security, and signs of ground contact.		
Chapter 32	9. Examine for open tailboom drains on lower skin and clear any obstructions.		
	10. Examine antennas for damage and security.		
	<u>TAIL ROTOR DRIVESHAFTS</u>		
Chapter 65	1. Examine tail rotor driveshaft hanger bearings for excessive grease leakage and evidence of overheating.		
	2. Examine segmented driveshafts and aft splined adapter for condition and security. Check aft splined adapter for adequate lubrication and freedom of movement.		

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5-18. 100-HOUR AIRFRAME PROGRESSIVE INSPECTION — EVENT NO. 3 (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
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	3. Torque check disc pack coupling fasteners 50 to 70 inch-pounds (5.7 to 7.9 Nm). <u>TAIL ROTOR GEARBOX</u> 1. Examine tail rotor gearbox support for condition and security. Pay particular attention for cracks at the gearbox attachment holes. 2. Examine tail rotor gearbox for oil leaks, condition and security. 3. Examine gearbox oil for evidence of contamination. 4. Examine tail rotor output shaft for condition. 5. Examine the tail rotor gearbox chip detector for accumulated material. 6. Perform operational check of the tail rotor gearbox chip detector. <u>TAIL ROTOR PITCH CHANGE CONTROLS</u> 1. Examine the tail rotor pitch control mechanism for freedom of travel throughout range and for condition and security. 2. Examine the following tail rotor pitch change components: a. Boot for condition, security, and evidence of grease or oil leakage. b. Lower control mechanism rod for condition of bearings. c. Pitch links and spherical bearings for condition and security. d. Crosshead for condition and security. e. Knurled nut for condition and security and liner for excessive play.		

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5-18. 100-HOUR AIRFRAME PROGRESSIVE INSPECTION — EVENT NO. 3 (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
Chapter 96	<u>ELECTRICAL</u> 1. Examine all visible electrical components, wires, cables, and connectors in the area of the tailboom for chafing, and general condition and security. 2. Verify navigation lights and anti-collision light for operation, condition, and security.		
Chapter 97	3. Examine antennas for condition and security. <u>GROUND RUN</u>  CAUTION GROUND RUN OF HELICOPTER TO BE ACCOMPLISHED BY QUALIFIED PERSONNEL ONLY.		
Chapter 12	1. Make sure applicable servicing requirements have been carried out. 2. Check oil level of transmission, hydraulic tank, engine and rail rotor gearbox prior to running helicopter. 3. Make sure that helicopter is ready for ground run and that surrounding area is clear.		
BHT-206L3-FM-1 (BHT-206L4-FM-1 for 206L3+ IGW Upgrade)	4. Start the helicopter and conduct ground run at 100% N_R to check for leaks and ensure all systems are operational and parameters are within Flight Manual limitations.		

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5-19. 100-HOUR AIRFRAME PROGRESSIVE INSPECTION — EVENT NO. 4

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH OTHER	
Chapter 11 BHT-206L3-FM-1 (BHT-206L4-FM-1 for 206L3+ IGW Upgrade) Chapter 53 Chapter 25 IL GEN-05-103	DATE: _____ W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY NO.: _____ TOTAL TIME: _____ SIGNATURE: _____ ZONE 7 — CABIN INTERIOR <u>PLACARDS AND MARKINGS</u> 1. Examine the placards, decals and markings. Ensure they are readable, correctly applied and in agreement with the applicable configuration of your helicopter. <u>INSTRUMENTS</u> 1. Examine instruments and instrument panel for condition, security and for correct markings. <u>EQUIPMENT AND FURNISHINGS</u> 1. Examine the cabin floor for condition. 2. Examine the seat assemblies for condition and security. 3. Examine passenger and crew restraints and webbing for condition and security. 4. Verify operation of passenger and crew inertia reels and belt buckles. Pull promptly on each reel to confirm the proper activation of the reel locking mechanism.		

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5-19. 100-HOUR AIRFRAME PROGRESSIVE INSPECTION — EVENT NO. 4 (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
Chapter 52 Chapter 21 Chapter 95 Chapter 26 Chapter 21 Chapter 67 Chapter 96	5. Examine the interior trim for condition and security. 6. Verify sliding windows for safety and smoothness of sliding. 7. Examine the ventilation system for condition and security. 8. Verify nose vents for proper operation, absence of obstructions or debris, and open drains. 9. Verify for proper operation of the fuel valve switch guard. 10. Inspect cabin fire extinguisher for condition, security and proper charge. 11. Verify proper operation of ventilation inlet control cables. 12. Examine first aid kit, replace missing or out of date items. <u>CONTROLS</u> 1. Examine the collective control stick for condition and security. Examine copilot collective control stick if installed. 2. Examine the cyclic control stick for condition and security. Examine copilot cyclic control stick if installed. 3. Examine the anti-torque control pedals for condition and security. Examine copilot anti-torque control pedals if installed. <u>ELECTRICAL</u> 1. Verify operation of cockpit map reading light. 2. Verify operation of aft cabin reading lights (if installed).  CAUTION USE EXTREME CARE WHEN IN PROXIMITY OF PITOT TUBE WITH HEAT APPLIED, TOUCHING TUBE MAY RESULT IN SERIOUS BURNS.		

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		MECH	OTHER
	3. Verify operation of the pitot tube heating system. 4. Verify operation of defog blowers. 5. Verify operation of ENGINE OUT and LOW ROTOR RPM audio and mute switch (if installed). 6. Verify illumination of all caution panel annunciator light segments by depressing test switch, or each individual light segment, as applicable. 7. Verify instrument lighting and dimming capabilities. ZONE 8 — FORWARD FUSELAGE <u>PLACARDS AND MARKINGS</u> 1. Examine the placards, decals and markings. Ensure they are readable, correctly applied and in agreement with the applicable configuration of your helicopter. <u>FUSELAGE</u> 1. Examine forward fuselage for condition. 2. Examine all cabin doors for condition and security. Give special attention to the following a. Hinges b. Seals c. Latches for proper adjustment, positive locking, and wear d. Windows e. Handles 3. Drain moisture from pitot and static piping installation. 4. Examine the external power door and receptacle for condition and security.		

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Chapter 52

Chapter 95

Chapter 53

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5-19. 100-HOUR AIRFRAME PROGRESSIVE INSPECTION — EVENT NO. 4 (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
Chapter 52 Chapter 32 Chapter 52 Chapter 53 Chapter 96 and Chapter 97	5. Examine battery compartment door, door seal and attachment for condition and security. 6. Examine components in battery compartment for condition and security. 7. Examine cabin entry steps (if installed) for condition and security. 8. Examine windshields and skylights for condition. 9. Examine upper fuselage for evidence of water leaks. 10. Examine lower fuselage for indication of fuel leaks, dents, cracks, corrosion, delamination, loose or missing rivets, and condition. 11. Inspect external area of fuel boost pump for interference of wire from low fuel warning switch to fuel boost pump retainer. 12. Examine all fuselage sealant joints for condition. Restore sealant as necessary.		
	<u>ELECTRICAL AND AVIONICS</u>		
	1. Examine all visible electrical components, wires, cables, and connectors in the area of the forward fuselage for chafing, and general condition and security.		
	2. Examine battery and vent tubes for condition and security.		
	3. Perform operational test of the battery temperature indicating system.		
	4. Verify operation of litter door open warning light.		
	5. Verify operation of landing lights.		
	6. Verify operation of lower fuselage mounted position lights (if installed).		
	7. Examine antennas for condition and security.		

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5-19. 100-HOUR AIRFRAME PROGRESSIVE INSPECTION — EVENT NO. 4 (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
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	ZONE 9 — AFT FUSELAGE		
	<u>PLACARDS AND MARKINGS</u>		
Chapter 11	1. Examine the placards, decals and markings. Make sure they are readable, correctly applied and in agreement with the applicable configuration of your helicopter.		
	<u>FUSELAGE (EXTERIOR)</u>		
Chapter 53	1. Examine aft fuselage for dents, cracks, corrosion, delamination, loose or missing rivets and condition.		
	2. Examine aft fuselage for indications of fuel or oil leaks.		
Chapter 28	3. Examine the fuel cap for condition and security.		
Chapter 96	4. Examine the grounding plug for condition.		
Chapter 6 and Chapter 53	5. Examine all fuselage drains for condition and freedom from obstructions.		
Applicable Service Instruction	6. Examine heater and/or air conditioning inlets and outlets for cleanliness and absence of obstructions, (if installed).		
Chapter 53	7. Examine baggage compartment door, seal, and latches for operation, condition, and security.		
Chapter 96	8. Verify operation of the baggage door ajar caution light, (if installed).		
	<u>FUSELAGE (INTERIOR)</u>		
Chapter 53	1. Examine baggage compartment for condition.		
	2. Gain access to inside of aft fuselage through access panels in baggage compartment and access panel located on the aft right hand fuselage:		
	a. Examine access panels and fasteners for condition.		
	b. Examine under engine pan for fuel, oil or water leaks.		

5-19. 100-HOUR AIRFRAME PROGRESSIVE INSPECTION — EVENT NO. 4 (CONT)

Chapter 96 and Chapter 97

PROGRESSIVE INSPECTIONS

5-19. 100-HOUR AIRFRAME PROGRESSIVE INSPECTION — EVENT NO. 4 (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL	
		MECH	OTHER
Chapter 11	3. Examine all optional equipment installed in the aft fuselage area for condition and security. 4. Verify proper operation of fuel sump drain valve switch. ZONE 10 — LANDING GEAR <u>PLACARDS AND MARKINGS</u> 1. Examine the placards, decals and markings. Ensure they are readable, correctly applied and in agreement with the applicable configuration of your helicopter.		
	<u>CROSSTUBES</u> 1. Examine crosstube retaining straps, cushions, and attaching hardware for condition and security. 2. Examine fuselage attachment fittings for condition and security. 3. Examine electrical bonding strips (if installed) for condition and security. 4. Examine fairings (if installed) for condition and security. 5. Examine crosstube riveted or clamped supports for condition and security. Give particular attention to the sealant joints around supports. Restore sealant (C-251) and paint finish as required. 6. Examine crosstubes for corrosion and damage. Give particular attention to areas where equipment is mounted. Repair and/or restore surface protection as required. 7. Examine cabin entry steps for condition and security (if installed). 8. Examine sealant joint at junction with skid tube saddles. Restore sealant (C-251) and paint finish as required. <u>SKID TUBES</u> 1. Examine skid tubes for corrosion, damage, and security.		

PROGRESSIVE INSPECTIONS

5-19. 100-HOUR AIRFRAME PROGRESSIVE INSPECTION — EVENT NO. 4 (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH OTHER	
Chapter 12 BHT-206L3-FM-1 (BHT-206L4-FM-1 for 206L3+ IGW Upgrade) Chapter 96	2. Examine skid shoes for condition and security. 3. Examine skid tube saddles for corrosion, damage, and security. 4. Examine ground handling wheel attachment bolts for condition and security. <u>GROUND RUN</u>  CAUTION GROUND RUN OF HELICOPTER TO BE ACCOMPLISHED BY QUALIFIED PERSONNEL ONLY. 1. Make sure applicable servicing requirements have been carried out. 2. Check oil level of transmission, hydraulic tank, engine and rail rotor gearbox prior to running helicopter. 3. Make sure that helicopter is ready for ground run and that surrounding area is clear. 4. Start the helicopter and conduct ground run at 100% N_R to check for leaks and ensure all systems are operational and parameters are within Flight Manual limitations. 5. Check the voltage regulator setting.		

