

CHAPTER 5 - INSPECTION AND COMPONENT OVERHAUL

CONTENTS - MAINTENANCE PROCEDURES

Paragraph Number	Title	Page Number
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INSPECTION AND COMPONENT OVERHAUL SCHEDULE

5-1	General	05-02
5-2	Items not covered in the inspection.....	05-02
5-3	Definitions	05-02
5-4	Inspection	05-03
5-5	Scheduled inspections	05-04

SCHEDULED INSPECTIONS

5-6	100 Hour Inspection.....	05-05
5-7	200 Hour Inspection.....	05-08
5-8	300 Hour Inspection.....	05-09
5-9	600 Hour Inspection.....	05-10
5-10	Daily/Turnaround Inspection.....	05-11
5-11	7-14 Day	05-12
5-12	28 Day	05-14
5-13	56 Day	05-15
5-14	12 Month Inspection.....	05-21
5-15	24 Month Inspection.....	05-24
5-16	36 Month Inspection.....	05-25
5-17	60 Month Inspection.....	05-26
5-18	1500 Hours of Component Operation.....	05-27
5-19	1750 Hours of Component Operation.....	05-28
5-20	6000 Hours of Component Operation.....	05-29
5-21	12 Months of Component Operation	05-30

CONDITIONAL INSPECTIONS

5-22	Suspected Hard Landing Inspection.....	05-31
5-23	Flight Control System Malfunction Inspection.....	05-32
5-24	Overtorque.....	05-33

COMPONENT OVERHAUL SCHEDULE

5-25	Component Overhaul Schedule	05-34
------	-----------------------------------	-------

FIGURES

Figure Number	Title	Page Number
5-1	Inspection of Main Rotor Flight Control Bolts/Nuts	05-23

TABLES

Table Number	Title	Page Number
5-1	Component Overhaul Schedule	05-34

INSPECTIONS AND COMPONENT OVERHAUL SCHEDULE

5-1. GENERAL.

This chapter contains the time limit intervals and the requirements for the Scheduled, and Unscheduled inspections.

The inspection intervals given in this chapter are the maximum permitted. Do not exceed these intervals. The U.S. Navy is responsible for increasing the scope and the frequency of the inspections as necessary to make sure the helicopter is operated safely during all unusual local changes, such as environmental conditions, helicopter use, etc. Request for changes to the requirements in this chapter will be made through the local CNATRADET authority.

The time between the overhauls (TBO) and the inspection periods are determined through experience, tests, and the judgment of engineers. These times are subject to change only by an appropriate airworthiness authority.

Every calendar and hourly inspection is a visual and thorough inspection to determine the airworthiness of the helicopter and the components. Qualified persons must do the inspection in accordance with quality standard aircraft practices and the applicable maintenance manuals. The appropriate government authority will determine the applicability of Alert Service Bulletins (ASB) and the Airworthiness Directives (AD).

Component operating time records are necessary for components that have scheduled maintenance procedures which are different from those of the airframe. It is your responsibility to keep the component records and to do the necessary maintenance procedures.

Disposal of unsalvageable aircraft parts and materials will be accomplished in a manner prescribed by the government.

Before each inspection, remove or open the necessary cowling, fairing, inspection doors, and panels.

5-2. ITEMS NOT COVERED IN THE INSPECTION.

The appropriate government authority is responsible for the work done on the helicopter. It is this authority's responsibility to:

1. Review the log books for discrepancies,
2. Make sure that the Alert Service Bulletins (ASB), the Airworthiness Directives (AD), Maintenance Engineering Directives (MED's) and the special inspections are done when they are required to be done,
3. Make sure that the scheduled inspections, the special inspections, and the required tests for all of the installed kits are complied with,
4. Make sure that all parts and components for which Historical Component Cards are required have documented traceability to their original installation in the helicopter,
5. Make sure that all limited life parts that have completed their published operating limits are replaced,
6. Make sure that all of the components that have completed their published overhaul periods are overhauled.

5-3. DEFINITIONS.

1. Examine - Look carefully to find the condition of the component. Find how that condition relates to a specific standard.
2. Condition - The state of an item compared to a known standard.
3. Standard - A specified rule or measure that you use to find the condition of a component.
4. Damage - Physical deterioration of a component.
5. Discard - Reject a component that has damage that cannot be repaired. To permanently remove from service.
6. Inspection - A procedure that includes checking, inspecting, and examining a system or a component.
7. Scheduled inspection - A procedure that must occur at specified operating hours or specified calendar intervals. This makes sure that the helicopter is airworthy.
8. Non-scheduled inspection - An inspection that has not been planned.
9. Special inspection - An inspection that is temporary or of a special interval that is not consistent with the scheduled inspections.

10. Conditional inspection - An inspection that does not occur at a specified time. A conditional inspection is the result of known or suspected unusual events, known or suspected malfunctions, or defects.
11. Periodic inspection - An inspection which is repeated at equal time intervals.
12. Progressive inspection - A scheduled inspection that is divided into smaller segments. This makes the best use of the time and the resources available.
13. Interim inspection - An inspection that occurs between overhauls.
14. Component overhaul schedule - A schedule of the serviceable time of a component. After the serviceable time has expired, the component must be removed, disassembled, and inspected.
15. Maintenance - The servicing and/or the repair of a helicopter, a system, or a component that keeps it serviceable.
16. Preventive maintenance - To do small maintenance action(s) on a regular basis to prevent non-scheduled maintenance.
17. Operating time - The time that must be recorded in the historical record sheets or in the helicopter logs. The operating time is specified as:
 - a. Time in service - The time from the moment the helicopter leaves the ground until it touches the ground at the next point of landing. The time when the helicopter is on the ground, with the engine and the rotor turning, is not included.
 - b. Calendar time - The elapsed time: it starts on the day the inspection is completed, the component is installed, or the rotor is turned for the first time and ends on the day that the time

limit expires. Calendar time is continuous. Calendar time does not stop when you remove a component, put the helicopter in storage, etc.

18. Maintenance zone - A specified area of the helicopter which may contain more than one system or more than one group of related components. Maintenance zones are used when you do a progressive inspection.

5-4. INSPECTION.

1. Maintenance requirements include Scheduled Inspections, Special Inspections, Conditional Inspections, and Component Overhaul Schedule.
 - a. Scheduled Inspections are recurring actions at designated operating hours or calendar intervals designed to ensure continuing airworthiness of helicopter.
 - b. Special Inspections are actions of a temporary nature or of a special interval not consistent with scheduled major inspections.
 - c. Conditional Inspections are non-recurring actions based on known or suspected unusual events, known or suspected malfunctions or defects.
 - d. Component Overhaul Schedule is elapsed time at which a component shall be removed, disassembled, and inspected for condition.

NOTE

For engine Scheduled, Special or Conditional Inspections, and a Component Overhaul Schedule, refer to applicable Allison 250 Series Operation and Maintenance Manual.

2. Lubrication and service requirements are in addition to those stated herein. Refer to lubrication chart and servicing diagram in Chapter 12.

05-5. SCHEDULED INSPECTIONS.

Accomplish the following Scheduled Inspections (paragraphs 5-7 through 5-23) each:

- 100 hours
- 150 hours
- 300 hours
- 1200 hours
- Daily/Turnaround
- 7—14 Day
- 28 Day
- 56 Day
- 12 months
- 24 months
- as required by manufacturer
- 300 hours or 12 months of component operation
- 600 hours of component operation
- 600 hours or 12 months of component operation
- 1200 hours of component operation
- 1200 hours or 24 months of component operation
- 1500 hours of component operation
- 1500 hours of component operation and every 50 hours thereafter
- 3000 hours of component operation
- 6000 hours of component operation
- 12 months of component operation.

SCHEDULED INSPECTIONS

05-6. 100 HOUR INSPECTIONS.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 7	<p><u>FORWARD FUSELAGE/LANDING GEAR AREA.</u></p> <p>— CABIN INTERIOR</p> <ol style="list-style-type: none"> 1. Inspect all interior soundproofing for cuts, tears, loose or missing fasteners and the presence of fluid. Inspect Velcro strips for looseness and deteriorated condition. 2. Inspect instrument and circuit breaker panels for cleanliness, security, loose or missing knobs. 3. Check caution lights, fire warning light, engine out light, and turbine outlet temperature light for proper operation using "Press to Test" function. 4. Check pilot and copilot ICS stations for side tone and proper operation of both foot and trigger switches. 5. Perform operational check of turbine outlet temperature system (see Chapter 77 of this manual). 6. Lubricate all lap belt buckle balls with dry silicone lubricant (CRC-030303). 7. Inspect wires under instrument center console for chafing on ADF transponder rack (TH-57C model only). 8. Clean forward and aft air conditioner evaporator as follows: <ol style="list-style-type: none"> a. Gain access to front of evaporators. Ensure overboard drains are free of obstructions. Direct a spray of isopropyl alcohol over all surfaces of evaporators. Allow excess alcohol to drain overboard. Allow evaporators to dry. 		
MED 7	<p>— FUSELAGE</p> <ol style="list-style-type: none"> 1. Inspect port and starboard walkways for evidence of bonding voids. 2. Inspect pitot heads for condition and security. Check pitot heater for proper operation. 3. Check defog blower motors for proper operation. 4. Check cabin heater for proper operation. 5. Landing lights: Clean lamp; inspect lights for security, evidence of overheating, or corrosion; inspect exposed wiring for fraying, evidence of arcing or overheating. 6. Inspect landing light access panel and tail rotor friction access panel for corrosion. 		

SCHEDULED INSPECTIONS

05-6. 100 HOUR INSPECTIONS. (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 7	<p>—— LANDING GEAR.</p> <ol style="list-style-type: none"> 1. Inspect forward and aft landing gear crosstube deflection in accordance with Bell Maintenance Manual BHT-206a/b-Series-MM, Chapter 32. 2. Record measurements for comparison during next phase. 3. If crosstube deflection increased 0.5 inches or more since last phase inspection, perform Suspected Hard Landing inspection. 4. If crosstube deflection exceeds limits of Bell Maintenance Manual, replace landing gear and perform Hard Landing Inspection. <p>PYLON AND POWERPLANT AREA</p> <p>—— MAIN ROTOR HUB AND BLADE</p> <ol style="list-style-type: none"> 1. On acceptable main rotor hubs, inspect to insure no sealant voids are evident around shields. Recoat with bead of sealing compound (MIL-S-8802F) as required. Coat the remaining exposed fillet radii and repaired surfaces with a film of corrosion preventive oil (VV-L-800). 2. Retorque main rotor pillow blocks/trunnion attach nuts. 		
MED 7	<p>—— HYDRAULIC.</p> <ol style="list-style-type: none"> 1. Due to high number of false positive results, hydraulic patch test not required. Service hydraulic reservoir in accordance with Bell Maintenance Manual, BHT-206A/B-Series-MM, Chapter 12. 2. Inspect hydraulic pump/reservoir for security, nicks, dents, cracks, corrosion, and leaks. 3. Inspect adel clamps for deterioration of rubber insert and wear of hydraulic hoses. 		
MED 7	<p>—— TRANSMISSION.</p> <ol style="list-style-type: none"> 1. Inspect for fluid buildup under the transmission and servos. 2. Inspect transmission support deck fitting bolts for correct installation. 3. Check minimum torque valve on head of bolts only; bolt must not rotate. 4. Inspect transmission pylon link nuts for cracks and check for proper torque. 5. Inspect transmission drag plate for cracks and nuts for security. 6. Inspect isolation mount for damage. Repairable damage is cause to perform Suspected Hard Landing inspection. 		

SCHEDULED INSPECTIONS

05-6. 100 HOUR INSPECTIONS. (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 7	<p style="text-align: center;"><u>NOTE:</u></p> <p style="text-align: center;">Repairable damage to the isolation mount is not cause for a Hard Landing inspection described in the Bell Maintenance Manual, BHT-206A/B-Series-MM.</p> <p>— MAIN DRIVESHAFT.</p> <p>1. Inspect: rotor brake for security, leaks, or evidence of overheating; hydraulic lines for deterioration, security, and leaks.</p>		
MED 7	<p>— POWER PLANT.</p> <p>1. Inspect double check valve and accumulators for condition and pneumatic air lines for chafing, nicks, dents, and evidence of leakage.</p>		
MED 7	<p><u>AFT FUSELAGE/TAILOOM AREA.</u></p> <p>— AFT FUSELAGE.</p> <p>1. Inspect fuel shut-off valve and fuel lines for signs of leakage, deterioration, or corrosion. Inspect fuel shut-off valve compartment for FOD, loose rivets and corrosion.</p> <p>2. Inspect upper left tailboom attach fitting for cracks through aft most rivets of outboard flange.</p>		
MED 7	<p>— TAILBOOM.</p> <p>1. Tail Rotor Drive: Remove forward short shaft, inspect splines for excessive wear and lubricate with anti-seize compound (MIL-A-907E) (BuNo's 161695-161701). Inspect all tail rotor drive shafts for nicks, scratches, and condition. Inspect pins for freedom of rotation.</p>		
MED 7	<p>— ELECTRICAL/AVIONICS/INSTRUMENTS.</p> <p>1. Inspect: ICS amplifiers for condition and security; wiring for evidence of arcing, security, and corrosion (TH-57C model only).</p> <p>2. Remove Standby Battery; route to battery shop for reconditioning; reinstall; and, check battery operation (TH-57C model only).</p> <p>3. Inspect electric cable between starter generator and load meter (shunt) for discoloration, chafing and security.</p>		
MED 7	<p>— GROUND RUN.</p> <p>1. Check cabin heater for proper operation.</p>		

SCHEDULED INSPECTIONS

05-7. 200 HOURS INSPECTION.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 7	<u>POWER PLANT AREA</u> — GENERAL 1. Check external oil filter element for presence of water, dirt, or other foreign matter.		

SCHEDULED INSPECTIONS

05-8. 300 HOUR INSPECTION.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 7	<p>— HYDRAULIC.</p> <ol style="list-style-type: none"> 1. Perform hydraulic system flush (BHT-206A/B - Series MM-1) 2. Replace hydraulic filter element. 		

SCHEDULED INSPECTIONS

05-9. 600 HOUR INSPECTION.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 7	<p>—— HYDRAULIC.</p> <p>1. After ground turn, perform hydraulic system particle count. The particle count must be class five (5) or better.</p>		

SCHEDULED INSPECTIONS

05-11. 7—14 DAY WASH REQUIREMENTS

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 10	<p>—— MAIN ROTOR</p> <ol style="list-style-type: none"> 1. Mix cleaning compound and water (ratio: 1 part cleaning compound to 4 parts water). 2. Clean blades and hub with cloth dampened with solvent. 3. Wash blades and hub with cleaning compound and water solution, rinse with fresh water and wipe dry with clean cloths. 4. Check blades and hub surfaces for evidence of corrosion and loss of protective coating. 5. Coat all surfaces of blades and hub with preservative oil. 6. Lubricate main rotor hub fittings. <p>—— TAIL ROTOR</p> <ol style="list-style-type: none"> 1. Clean tail rotor blades with cloth dampened with solvent. 2. Wash blade with cleaning compound and water solution. Rinse with fresh water and wipe dry with clean cloths. 3. Apply a light coat of preservative oil to blade surfaces. 4. Lubricate tail rotor hub fittings. 		

SCHEDULED INSPECTIONS

05-11. 7—14 DAY WASH REQUIREMENTS. (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
	<p>— AIRFRAME.</p> <ol style="list-style-type: none"> 1. Disconnect forward battery. 2. Prepare helicopter for wash. <ol style="list-style-type: none"> a. Seal static ports, forward battery door, and external power door with masking tape. Seal landing light cover with masking tape as appropriate. b. Seal standby generator air scope and ECU inlet and exhaust as appropriate. c. Install pitot tube covers and engine inlet and exhaust covers. 3. Mix cleaning compound and water as required for proper cleaning. <div style="text-align: center;">  <p>Do not apply cleaning solution directly to Plexiglas surfaces. Do not direct water flow into main rotor mast opening. Check that water does not build up on the transmission deck.</p> </div> <ol style="list-style-type: none"> 4. Wash helicopter with cleaning solution and cleaning brush. 5. Use solvent to remove stubborn deposits of grease and oil. 6. Clean all interior and exterior Plexiglas surfaces with plastic polish. 7. Vacuum cockpit and passenger compartment decks. 8. Remove masking tape from static vents, forward battery door, external power door, and landing light cover as appropriate. 9. Remove covering from standby generator air scoop and ECU inlet and exhaust as appropriate. 10. Coat surfaces of main and tail rotor blades with preservative oil. 11. Lubricate main and tail rotor hub fittings. 		

SCHEDULED INSPECTIONS

05-12. 28 DAY INSPECTION.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 7	<u>GLOBAL POSITIONING SYSTEM DATABASE</u> 1. Confirm database is current.		

SCHEDULED INSPECTIONS

05-13. 56 DAY CORROSION CONTROL REQUIREMENT.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 10	$\frac{3}{4}$ $\frac{3}{4}$ AIRFRAME 1. Disconnect GPS antenna lead (TH-57C). 2. Remove the following items: a. Forward cowling b. Tailboom access panel c. Tail rotor gearbox fairing d. Aft baggage compartment access panel and overhead access panel e. Pilot, copilot and passenger doors by removing the hinge bolt f. Seat cushions g. Seat pans h. Tail rotor control friction access panel i. Flight control access panel (tunnel) j. Landing light access panel (TH-57B) k. Forward battery l. Engine oil tank cowling m. Fuel shutoff valve access panel n. Tail rotor driveshaft cover		

SCHEDULED INSPECTIONS

05-13. 56 DAY CORROSION CONTROL REQUIREMENT. (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 10	<p style="text-align: center;">— TRANSMISSION AND PYLON AREA</p> <ol style="list-style-type: none"> 1. Inspect transmission deck forward of servos for corrosion, cleanliness, and condition of paint. 2. Inspect transmission deck under servos for corrosion, cleanliness, and condition of paint. 3. Inspect spike well area and deck under transmission for corrosion, cleanliness, and condition of paint. 4. Inspect servo mounting brackets and mounts for corrosion and condition of paint. 5. Inspect servo control tubes, bellcranks, bearings, mounts, and attach points for corrosion and condition of paint. 6. Inspect hydraulic pump for corrosion and cleanliness. 7. Inspect hydraulic reservoir for corrosion and cleanliness. 8. Inspect hydraulic lines, connections, and filter for corrosion and cleanliness. 		
MED 10	<p style="text-align: center;">— NOSE, CABIN, AND AFT FUSELAGE AREAS</p> <ol style="list-style-type: none"> 1. Inspect rotor brake master cylinder for corrosion. (C Model Only) 2. Inspect exterior skin of fuselage for corrosion and chipped paint. 3. Inspect honeycomb areas for soft spots, dents, corrosion, and chipped paint. 4. Inspect lower exterior fuselage skin for chipped paint and corrosion 5. Inspect skid mounting brackets, skids, and crosstubes for condition of paint and corrosion. 6. Inspect crosstube fairing for corrosion and condition. 7. Inspect skid drain hole for blockage. 8. Inspect tail rotor controls friction area for condition of paint and corrosion. 9. Inspect tail rotor controls bellcranks, control tubes, and bearings for corrosion and cleanliness. 10. Inspect tail rotor control pedals and attach points for corrosion, cleanliness, and condition of paint. 11. Inspect cockpit deck for corrosion, cleanliness, and condition of paint. 		

SCHEDULED INSPECTIONS

05-13. 56 DAY CORROSION CONTROL REQUIREMENT. (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 10	12. Inspect seat pan area for corrosion, water entrapment, cleanliness, and condition of paint. 13. Inspect passenger deck for corrosion and condition of paint. 14. Inspect cockpit overhead for corrosion and condition of paint. 15. Inspect passenger compartment overhead for corrosion, soft spots, and condition of paint. 16. Inspect sound proofing material for mildew and cleanliness. 17. Inspect flight control access tunnel area for corrosion, cleanliness, and condition of paint. 18. Inspect control tubes, bellcranks, and bearings for corrosion and cleanliness. 19. Inspect bathtub area for corrosion, fungus, and condition of paint; and honeycomb for soft spots. 20. Inspect drain hole located at Station 176.0 is open and clear of debris. 21. Inspect aft deck above battery compartment for corrosion, cleanliness, and condition of paint. 22. Inspect ECS for condition and corrosion. — TAILBOOM AREA 1. Inspect tailboom access panel for water entrapment, fungus, corrosion, and condition of paint. 2. Inspect horizontal stabilizers and vertical fin mounting brackets for corrosion, and condition of paint. 3. Inspect entire tail boom area for corrosion, and condition of paint.		
MED 10	— NOSE COMPARTMENT AND CABIN AREA 1. Inspect skin under forward battery and mounting brackets for electrolytic spillage, corrosion, and condition of paint. 2. Inspect battery compartment access door and hinge for proper operation, corrosion, and condition of paint. 3. Inspect area behind aft soundproofing for water entrapment, corrosion, and condition of paint. 4. Inspect forward and aft fuel boost pump connections for corrosion. 5. Inspect fuel pressure switch for corrosion.		

SCHEDULED INSPECTIONS

05-13. 56 DAY CORROSION CONTROL REQUIREMENT. (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 10	<p>—— ENGINE, AFT FUSELAGE, AND TAILBOOM AREA</p> <ol style="list-style-type: none"> 1. Inspect fire warning electrical connector for corrosion. 2. Inspect UHF antenna mounting screws and electrical connector for corrosion. 3. Inspect hoist electrical connections for corrosion. 4. Remove lower anti-collision light. Inspect light assembly for corrosion and deterioration. 5. Inspect wiring in lower fuselage, to lower anti-collision light for fraying and deterioration. 6. Inspect sealant around wiring, located in lower decking, for deterioration. 7. Install lower anti collision light. 8. Inspect aft landing light mounting screws and electrical connector for corrosion. 9. Inspect upper anti-collision light, mount, screws, and electrical connector for corrosion. 		
MED 10	<p>—— TRANSMISSION AND PYLON AREA</p> <ol style="list-style-type: none"> 1. Inspect transmission mounts and mounting for scratches and corrosion. 2. Inspect mast for scratches and corrosion. 3. Inspect pitch links for scratches, corrosion, and cleanliness. 4. Inspect main rotor hub for scratches, corrosion, and cleanliness. 5. Inspect main rotor blade grip bolts for corrosion and cleanliness. 6. Inspect main rotor blade latch bolts for corrosion and cleanliness. 7. Inspect flap restraint for freedom of operation, corrosion, and cleanliness. 8. Inspect main rotor blades for scratches and corrosion. 		

SCHEDULED INSPECTIONS

05-13. 56 DAY CORROSION CONTROL REQUIREMENT. (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 10	<p>— ENGINE AREA</p> <p align="center">NOTE</p> <p>The corrosion inspection for the engine shall be done in accordance with the Allison Maintenance Manual. This maintenance shall include, but not be limited to, compressor rinse, compressor cleaning, and corrosion treatment.</p> <ol style="list-style-type: none"> Inspect forward and aft firewall for corrosion. Inspect engine compartment deck for corrosion and cleanliness. Inspect rotor brake calipers and disks for condition and corrosion. (TH-57C) 		
MED 10	<p>— ENGINE OIL COOLER AND TANK AREA</p> <ol style="list-style-type: none"> Inspect engine oil cooler mounts for corrosion, cleanliness, and condition of paint. Inspect deck under and around oil cooler for corrosion and condition of paint. 		
MED 10	<p>— TAIL ROTOR AND TAIL ROTOR DRIVE AREA</p> <ol style="list-style-type: none"> Inspect tail rotor driveshaft bearings and brackets for cracks and corrosion. Inspect tail rotor gearbox mount and skin area for corrosion, cleanliness, and condition of paint. Inspect tail rotor hub for scratches, corrosion, and cleanliness. Inspect tail rotor pitch links for corrosion and cleanliness. Inspect tail rotor blade bolts for corrosion and cleanliness. Inspect tail rotor blades for scratches, corrosion, and cleanliness. 		
MED 10	<p>³/₄ AIRFRAME</p> <ol style="list-style-type: none"> Install all cowlings, fairings, and doors. Install forward battery. Install soundproofing and seat cushions. Oil all hinges and latches on cowlings, fairings, and doors. 		

SCHEDULED INSPECTIONS

05-13. 56 DAY CORROSION CONTROL REQUIREMENT. (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
	¾ CONSUMABLES REQUIRED 1. Solvent Dry Cleaning P-D-680, Type II 2. Compound, Cleaning MIL-C-25769 3. Oil, Preservative VV-L-800/CRC33-36 4. Compound Cleaning MIL-C-43616 5. Grease, Wide Temperature Range MIL-C-81322 6. Polish, Plastic P-P-560 7. Tape, Masking PPP-T-42		

SCHEDULED INSPECTIONS

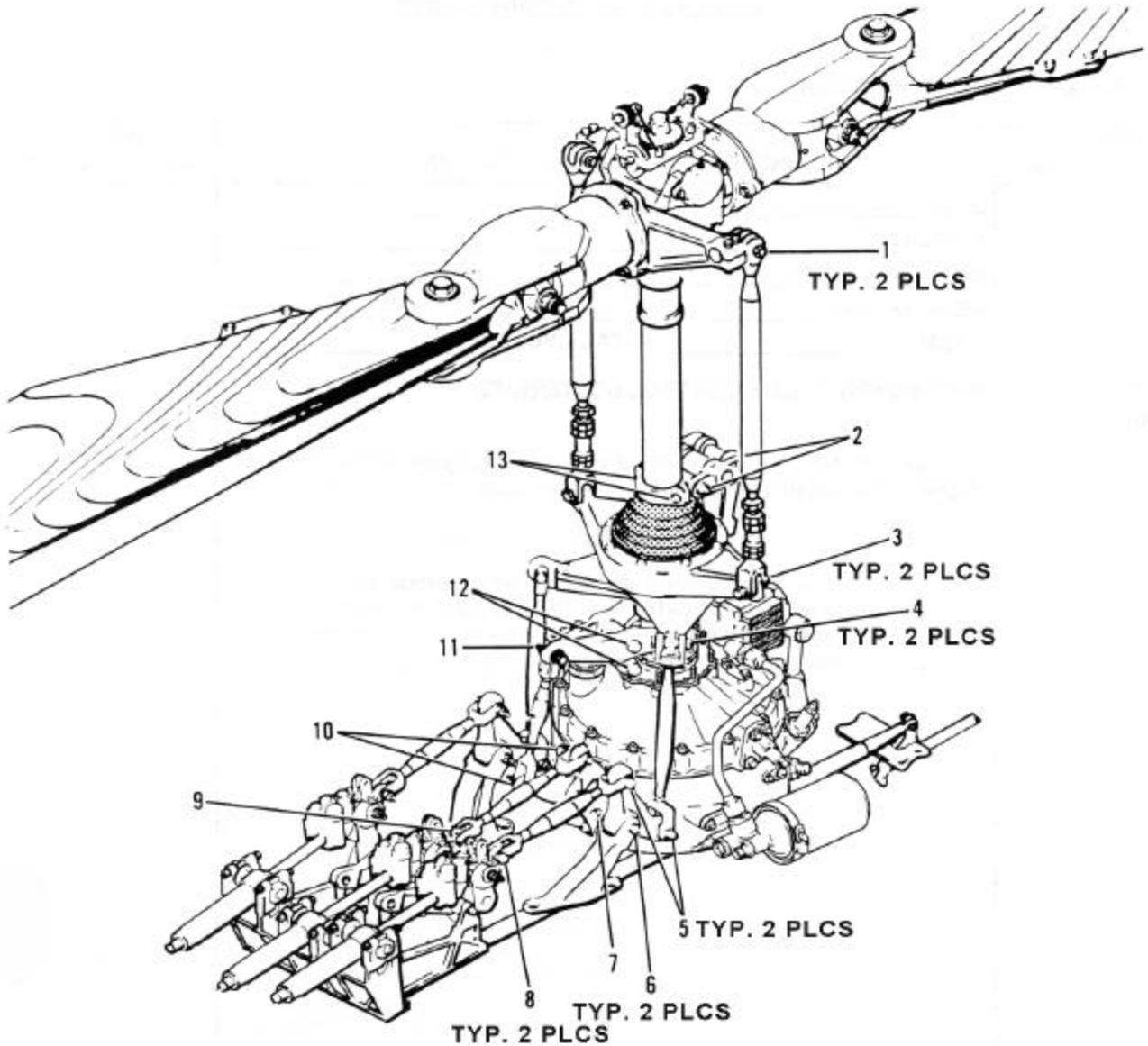
05-14. 12 MONTH INSPECTION.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 7	<p><u>CREW DOORS</u></p> <p>1. Jettison all crew doors. Inspect pins and hinge bolts for corrosion or wear per BHTI 206BIII Maintenance Manual. Lubricate pins (G-81322) and reinstall doors per BHTI 206BIII Maintenance Manual. Check door operation.</p> <p><u>COMPASS</u></p> <p>1. Perform compass calibration in accordance with Appendix F. Ensure air-conditioning system and position lights are off during calibration procedures.</p> <p><u>HYDRAULIC SYSTEM</u></p> <p>1. Inspect hoses for 7 year replacement.</p> <p><u>FUEL SYSTEM</u></p> <p>1. Inspect hoses for 7 year replacement.</p> <p><u>OIL SYSTEM</u></p> <p>1. Inspect metal band on the hoses for 7 year replacement.</p> <p>2. Inspect hoses for interference with engine cowling door and prevent airframe chafing and interference with control tube attached to fuel control unit.</p> <p style="text-align: center;"><u>Note:</u></p> <p style="text-align: center;">The lines for the Hydraulic, Fuel and Oil Systems are life limited to 7 years. For marking and age requirements refer to Section Five of the NAVAIR 01-1A-20 Hose and Tubing Manual.</p> <p><u>LIFTING SLINGS</u></p> <p>1. Submit all Lifting Slings to Navy for Annual Load Test.</p> <p><u>MOORING SYSTEM</u></p> <p>1. Inspect mooring straps for 2 year replacement.</p>		

SCHEDULED INSPECTIONS

05-14. 12 MONTH INSPECTION. (CONT)

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
	<p><u>AIRFRAME</u></p> <ol style="list-style-type: none"> Remove rear avionics panel, overhead passenger trim, soundproofing and inspect engine and transmission support structure for cracks and corrosion. Inspect the box beam, cabin roof beam, lower caps and straps for cracks and loose rivets. During this inspection, additional emphasis is directed toward the box beam lower web (BHT 206-031-200-019) particularly in the aft area. Inspect for loose/working rivets and cracks at the aft channel attach point <p align="center"><u>NOTE</u></p> <p align="center">The aft box beam and web structure may require removal of adhesive tape to allow for visual inspection of critical areas.</p> <ol style="list-style-type: none"> Inspect the forward upper vertical tunnel left and right hand webs and the vertical tunnel web supports for loose/working rivets or cracks. 		



- | | |
|---|--|
| 1. M/R pitch links to M/R hub pitch horns | 8. Cyclic servos to control tubes |
| 2. Swashplate drive link/lever assembly | 9. Collective servo to control tube |
| 3. Swashplate to M/R pitch links | 10. Control tubes to collective bellcrank |
| 4. Cyclic control tubes to swashplate | 11. Control link to collective lever |
| 5. Control tubes to cyclic bellcranks | 12. Link assembly (collective lever to swashplate support) |
| 6. Cyclic bellcrank pivots | 13. Swashplate drive collar set |
| 7. Collective bellcrank pivot | |

Figure 5-1. Inspection of Main Rotor Flight Control Bolts/Nuts

SCHEDULED INSPECTIONS

05-15. 24 MONTH INSPECTION.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
Appendix E	<u>PITOT STATIC SYSTEM</u> 1. Pitot-Static System Certification		

SCHEDULED INSPECTIONS

05-16. 36 MONTH INSPECTION.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
Chapter 25	<u>EQUIPMENT.</u> <u>CARGO HOOK.</u> 1. Perform overhaul in accordance with On Board Systems Manual Number 120-074-00 Revision 2.		

SCHEDULED INSPECTIONS

05-17. 60 MONTH INSPECTION.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 7	<u>EQUIPMENT.</u> ACI - Aircraft Condition Inspection 1. Perform ACI in accordance with Appendix K. Weighing Aircraft 1. Weigh aircraft after Aircraft Condition Inspection and perform center of gravity calculation in accordance with Bell Maintenance Manual BHT-206A/B-Series-MM, Chapter 8.		

SCHEDULED INSPECTIONS

05-18. 1500 HOURS OF COMPONENT OPERATION.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 7	<u>KAFLEX DRIVESHAFT.</u> 1. Remove driveshaft from helicopter and perform an out of aircraft inspection in accordance with Kamatics Corporation Service Instruction 2348.		

SCHEDULED INSPECTIONS

05-19. 1750 HOURS OF COMPONENT OPERATION.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 7	<u>ENGINE COMPRESSOR - Number 1 Bearing</u> 1. Remove and replace number 1 engine bearing.		

SCHEDULED INSPECTIONS

05-20. 6000 HOURS OF COMPONENT OPERATION.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
Kamatics Corp. Service Instruction Number 2348	<u>KAFLEX DRIVESHAFT.</u> 1. Remove driveshaft from helicopter and perform an out of aircraft inspection in accordance with Kamatics Corporation Service Instruction 2348.		

SCHEDULED INSPECTIONS

05-21. 12 MONTHS OF COMPONENT OPERATION.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 7	<p><u>LANDING GEAR</u></p> <p>1. Remove landing gear from aircraft. Remove landing gear clamps, crosstube supports, and adhesive. Inspect crosstubes and crosstube attachments for cracks, corrosion, and security. Inspect clamps and crosstube supports for cracks and corrosion. Upon installation, ensure support has radiused ends, corrosion protection, and adhesive applied to under side of support and top of crosstube. Remove skid shoes. Inspect skid tubes for cracks and corrosion. Pay particular attention to inboard saddle rivet area and bottom of tube.</p> <p style="text-align: center;"><u>Note:</u></p> <p style="text-align: center;">Repairable damage to the isolation mount is <u>NOT</u> cause for a Hard Landing inspection.</p>		

CONDITIONAL INSPECTIONS

05-22. SUSPECTED HARD LANDING.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
MED 7	<p>When the helicopter is suspected of having a hard landing, as defined in Chapter 5, perform the following before the aircraft is certified as ready for flight:</p> <ol style="list-style-type: none"> 1. Inspect the main rotor mast for indentations at static stop contact area. 2. Inspect the static stops for deformation. 3. Inspect the main rotor blades for damage. 4. Inspect landing gear skid tubes and crosstubes for damage, distortion, and deflection. Inspect the crosstube attachment points. 5. Inspect the spike plate for sheared or loose rivets 6. Inspect isolation mount and main drive shaft flex frame for non-repairable damage. 7. Inspect the cowling access doors and crew compartment doors for proper fit and alignment. 8. Inspect the tail boom and fuselage exterior for buckling or excessive waviness. Inspect the upper tail boom attach fittings 9. Inspect the tail skid and mounting for looseness or damage. 10. Inspect the tail rotor blades for damage. 11. Check the flight controls for smooth operation and proper swashplate deflection. 12. Inspect the Nr tach generator and surrounding components and structure for damage. 13. Inspect landing gear crosstubes for deflection. Deflection may be measured without lifting aircraft. Maximum - weight on - deflection is 74.5 inches on forward crosstube and 76.0 inches on aft crosstube <p>Perform hard landing inspection if damage to the above items indicates a hard landing occurred.</p> <p style="text-align: center;"><u>Note:</u></p> <p style="text-align: center;">Repairable damage to the isolation mount is <u>NOT</u> cause for a Hard Landing inspection.</p>		

CONDITIONAL INSPECTIONS

05-23. FLIGHT CONTROL SYSTEM MALFUNCTION.

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
	REGISTRATION NO. _____ <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> / / Date </div> <div style="text-align: center;"> _____ Signature </div> <div style="text-align: center;"> _____ Helicopter Hours </div> </div> <p><u>FLIGHT CONTROL SYSTEM MALFUNCTION</u></p> <p>When the helicopter is suspected of having a flight control system malfunction; such as binding, jammed, or restricted controls; the following must be performed before the aircraft is certified as ready for further flight:</p> <p style="text-align: center;"><u>NOTE:</u></p> <p style="text-align: center;">This inspection should be conducted in the presence of Quality Control Representative and designated government representative. Also, this inspection should be conducted (when possible and applicable) with the person reporting the malfunction.</p> <ol style="list-style-type: none"> 1. Conduct investigation and take corrective action, as applicable, per Troubleshooting Guide in Chapter 67. 		

CONDITIONAL INSPECTIONS

05-24. OVERTORQUE

DATA REFERENCE	INSPECTION TASK DESCRIPTION	INITIAL MECH	OTHER
	DATE: W.O. _____ FACILITY: _____ HELICOPTER S/N: _____ REGISTRY No.: _____ TOTAL TIME: _____ TOTAL CYCLES: _____		
	<p><u>OVERTORQUE -110 TO 120% = 78.5 PSI TO 85.7 PSI</u></p> <p>1. If overtorque from 110 to 120 percent should occur, perform a 100 hour inspection on the KAFLEX main driveshaft.</p> <p><u>OVERTORQUE -ABOVE 120%</u></p> <p>1. If an overtorque between 120% and 130% occurs, contact Bell Helicopter Customer Support and request the following:</p> <ul style="list-style-type: none"> a. Main Rotor Hub. Removal and accomplishment of special accident/incident overhaul inspections, not required. b. Main Rotor Mast. Removal and accomplishment of special accident/incident overhaul inspections, not required. c. Main Transmission. Replacement of top case of main transmission, not required. <p>2. If an overtorque above 120% occurs, perform 1500 hour inspection on KAFLEX main driveshaft.</p>		

COMPONENT OVERHAUL SCHEDULE

05-25. COMPONENT OVERHAUL SCHEDULE.

This Component Overhaul Schedule summarizes, in tabular form, overhaul interval of helicopter components.

Time between overhauls and inspection periods is based upon experience, testing, and engineering judgment, and is subject to change at sole discretion of Bell Helicopter Textron or an appropriate government agency.

NOTE:

Neither assignment of a time period for overhaul of a component nor failure to assign a time period for overhaul of component constitutes warranty of any kind. The only warranty applicable to helicopter and any component is that warranty included in Purchase Agreement for helicopter or component.

The overhaul interval specified for any given part number contained in this Component Overhaul Schedule (Table 5-1) applies to all successive dash numbers for that item unless otherwise specified.

Table 05-1. COMPONENT OVERHAUL SCHEDULE

PART NUMBER	NOMENCLATURE	OVERHAUL INTERVAL (HOURS)
	MAIN ROTOR HUB	
206-010-100	Hub Assembly	1200/5 yr
206-011-100-021	Hub Assembly	1200
206-011-100-107	Hub Assembly	1200 
	MAIN ROTOR CONTROLS	
206-010-450	Swashplate and Support	4800
	POWER TRAIN	
206-040-002-007,-109,-111	Mast Assembly	3000
206-040-002-027, and -029	Transmission	4500
206-040-230	Freewheeling Assembly	1200 
206-040-270	Freewheeling Assembly	3000

Table 05-1. COMPONENT OVERHAUL SCHEDULE (Cont'd)

PART NUMBER	NOMENCLATURE	OVERHAUL INTERVAL (HOURS)
TAIL ROTOR SYSTEM		
206-010-701	Tail Rotor Hub	1200
206-011-801	Tail Rotor Hub	1200
206-011-810-003, -009,-015,-119	Tail Rotor Hub	2400
206-011-810-125 and Sub	Tail Rotor Hub Assembly	2500
206-040-400	Tail Rotor Gearbox	1200 
206-961-401	Tail Rotor Gearbox	1200 
206-040-402	Tail Rotor Gearbox	6000
HYDRAULIC SYSTEM		
206-076-022	Hydraulic Pump and Reservoir	3600
206-076-023	Hydraulic Servo Actuator	1200
206-076-025	Hydraulic Servo Actuator	2400
206-076-031-001, -003	Hydraulic Servo Actuator	1200
206-076-031-007	Hydraulic Servo Actuator	2400
206-076-031-013, -017, -021, -023, -107, -109	Hydraulic Servo Actuator	3600
POWER PLANT		
Engine Allison	250-C20J	Refer to Rolls Royce 250 Series Operation and Maintenance Manual
STARTER GENRATORS		
All		1000
FLIGHT CONTROLS		
206-001-360	Cyclic Pivot Support	1200
ROTOR BRAKE		
All Kits		3000

Table 05-1. COMPONENT OVERHAUL SCHEDULE (Cont'd)

PART NUMBER	NOMENCLATURE	OVERHAUL INTERVAL (HOURS)
All	<p style="text-align: center;">EMERGENCY FLOTATION SYSTEM</p> <p style="text-align: center;">Pressure Reservoir Assembly</p>	3 Yr
206-706-335	<p style="text-align: center;">CARGO HOOK KIT</p> <p style="text-align: center;">Cargo Hook</p>	3 Yr

NOTES:

 The overhaul interval of the M/R hub assembly 206-011-100-107 and subsequent, may be increased to 2400 hours provided they have main rotor yoke 206-011-149-105 installed.

 The overhaul interval of 206-040-400 and 206-961-401 tail rotor gearbox assembly may be increased to 6000 hours with indicating chip detector system installed and operational.

 The overhaul interval of 206-040-230 freewheeling assembly may be increased to 3000 hours provided clutch assembly CL-41742-1 or CL-42250-1 is installed.