



Maritime Helicopters

MARITIME HELICOPTERS

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APPROVED AIRCRAFT INSPECTION PROGRAM (AAIP)

EUROCOPTER BO-105

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Record of Revisions

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RETAIN THIS SHEET UNTIL ALL REVISION BLANKS ARE FULL

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

This manual has been prepared in conformance with company policy and applicable Federal Aviation Regulations and is approved by the FAA.

Director of Maintenance

Principle Maintenance Inspector, F.A.A.

Maritime Helicopters Inc.

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Log of Effective Pages			
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Section 1.0 Introduction

1.01 Revision and Control

The Maritime Helicopters Inc. Eurocopter BO 105 AAIP MTL Schedule & Inspections is distributed on an “as needed” basis.

This AAIP is revised as necessary to reflect regulatory changes and / or changes to maintenance procedures or requirements as deemed necessary by the equipment manufacturer or Maritime Helicopters Inc.

A copy of this manual, including all current revisions, is provided in paper or electronic PDF format to all locations where maintenance is performed. A copy is also provided to the local FSDO.

Each approved change shall be posted in the Record of Manual Revision. The portion of the text affected by the latest revision is indicated by a vertical line on the left margin. The revision number and effective date are listed at the top of each page.

Maintenance supervisory personnel are responsible for keeping all maintenance manuals assigned to their area of operations at the current revision level.

Each manual and / or appendix holder shall insert revisions by

1. Replacing all pages in the manual.
2. Revising the Log of Revisions sheet with the new revision number, date entered, and their initials.
3. Return the Publication Revision Memorandum to the maintenance Records Department.

Each electronic PDF holder shall:

1. Return the last revision disk of electronic format to the maintenance Records Department.
2. Return the publications revisions memorandum to the maintenance Records Department.

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1.02 General

The Approved Aircraft Inspection Program for the Eurocopter BO 105 consists of the following checks, inspections and additional required maintenance.

Maintenance, overhaul, inspection and airworthiness limits shall be tracked by a computer generated status report. A copy shall be carried in the aircraft maintenance log book.

The airworthiness limitations schedule in the American Eurocopter BO-105 maintenance manual chapter 101, latest revision, shall be followed to determine airframe service life limits.

Rolls-Royce 250 C-20 series Operations and Maintenance Manual, the latest revision, shall be followed to determine engine service life limits.

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Section 2.0 Maintenance Time Limitations**2.01 Maintenance Time Limitations**

The following tables summarize the inspection, overhaul, and maintenance requirements for helicopters maintained under the Maritime Helicopters Inc. American Eurocopter BO 105 Approved Aircraft Inspection Program. The intervals stated in this table shall apply to all part numbers unless stated otherwise. Components not listed in this table shall be maintained following manufacturer's recommendations if installed on aircraft maintained by Maritime Helicopters Inc. Procedures for inspections, overhaul, or maintenance shall be in accordance with manufacturer's manuals unless otherwise noted. Work performed on phase maintenance and other inspections shall be in accordance with American Eurocopter BO 105 maintenance manuals or the appropriate manufacturer's manual as referenced in the American Eurocopter BO 105 Approved Aircraft Inspection Program. The tolerance for inspections listed in the maintenance time limitation schedules unless otherwise stated, is 10%, **OR** up to a maximum of 100 hours operating time / 30 days calendar time. The tolerance for overhaul intervals listed in the maintenance time limitation schedules unless otherwise stated, is 3%, **OR** up to a maximum of 30 hours operating time / 30 days calendar time. Inspection's and overhaul intervals required beyond the stated tolerances must be approved by the FAA. The tolerance is established for maintenance scheduling convenience only and can only be approved by the maintenance department management. These tolerances do not apply to inspections listed in section 3 of this appendix

2.02 Maintenance Time Limitations Schedule

General	Inspection Interval	Overhaul Interval	Task Required	Reference
Aircraft Registration	36 Month		36 Month aircraft registration with the FAA	FAA. Gov web site and FAR 47

Chapter 08 Weight and Balance	Inspection Interval	Overhaul Interval	Task Required	Reference
Weigh Aircraft	36 Month		36 Month aircraft weigh	FAR 135.185

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Chapter 11 Transmission	Inspection Interval	Overhaul Interval	Task Required	Reference
Transmission Oil Filter	100 Hour		Clean transmission oil filter and inspect for contamination (see all phases)	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 11 (NOTE 1)
Transmission Oil Change	300 Hour		300 Hour transmission oil change (see phases 3,6)	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 11 (NOTE 2)
Bolts (P/N 105-60701.15/.16)	150 Hour		Remove bolts and inspect for damage	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 11
Drive Flange (P/N 4619302037)	300 Hour		Check tq of screw on drive flange	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 11
Chip Detectors	12 Month		12 Month magnetic retaining force	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 11
Input Driveshaft	4800 Hour		Remove drive shafts and inspect for condition(See 600 Hour inspection)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 11 (NOTE 1)
Kaflex Driveshaft	600 Hour	6000 Hour	6000 Hour overhaul (See 600 Hour inspection)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 11
Freewheel Unit (P/N 4638202007)	600 Hour		Remove and inspect for condition (See 600 Hour inspection)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 11
Main Transmission		3000 Hour	3000 Hour overhaul	BO-105 Aircraft Maintenance Manual Ch. 101-14.1 11 (NOTE 3)
Transmission Mounts	3000 Hour		Remove transmission mounts and inspect for condition	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 11

NOTE 1: Time reduced based on previous experience.

NOTE 2: The 12 month requirement is not complied with as per previous experience.

NOTE 3: Main Transmission P/N 4619 001 003 (FS 72 A) must be overhauled every 1200 hours.

Chapter 13 Main Rotor System	Inspection Interval	Overhaul Interval	Task Required	Reference
Main Rotor Head	4800 Hour 6 Year		Remove and inspect	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 13
Blade Bolts	600 Hour		Remove bolts and inspect for damage	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13
Drive Link	3000 Hour		Remove, disassemble and inspect	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 13

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Chapter 14 Main Rotor Blade	Inspection Interval	Overhaul Interval	Task Required	Reference
Main Rotor Blade	1200 Hour		Remove main rotor blades and inspect	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 14

Chapter 21 Fuselage	Inspection Interval	Overhaul Interval	Task Required	Reference
Door Jettison Inspection	12 Month		12 Month serviceability check	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 21
Engine Mounts	3000 Hour		Inspect engine mounts for wear	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 21 (NOTE 1)
Transmission Mounts (airframe)	3000 Hour		Inspect transmission mounts for wear	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 11
Fuselage	2400 Hour		Inspection (See 2400 hour inspection)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 21

NOTE 1: Inspect engine mounts for wear whenever the engine is removed.

Chapter 31 Tailboom Assembly	Inspection Interval	Overhaul Interval	Task Required	Reference
Tailboom	2400 Hour		Remove tailboom and inspect. (See 2400 hour inspection)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 31 (NOTE 1)

NOTE 1: Inspection time increased from 1800 hrs. to 2400 hrs. based on previous experience.

Chapter 32 Tail Rotor Drive	Inspection Interval	Overhaul Interval	Task Required	Reference
Intermediate and Tail Rotor Gearbox Oil Change	100 Hour		100 Hour Intermediate and tail rotor gearbox oil change (see all phases)	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 32 (NOTE 1)
Intermediate and Tail Rotor Gearbox Chip Detectors	12 Month		Test magnetic retention force	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 32
Bendix Tail Rotor Drive Shaft	2400 Hour/4 Year		Remove and inspect for condition	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 32
Laminated Tail Rotor Drive Shaft	3600 Hour/6 Year		Remove, disassemble and inspect for condition	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 32
Tail Rotor Gearbox		3600 Hour	3600 Hour overhaul	BO-105 Aircraft Maintenance Manual Ch. 101-14.1 32
Intermediate Gearbox		3600 Hour	3600 Hour overhaul	BO-105 Aircraft Maintenance Manual Ch. 101-14.1 32

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NOTE 1: 300 hr. inspection reduced to 100 hr. inspection as per previous experience. The 12 month requirement is not complied with as per previous experience.

Chapter 33 Tail Rotor	Inspection Interval	Overhaul Interval	Task Required	Reference
Tail Rotor Balance	100 Hours		100 Hour dynamic balance of tail rotor (see all Phases)	BO-105 Aircraft Maintenance Manual Ch. 107 (NOTE 1)
Lubrication of tail rotor shaft splines and bearing	600 Hour		Lubricate (See all phases)	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33
Tail Rotor Balance Weights	600 Hour		Inspect for condition	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33 ASB 105-30-116
Tail Rotor Hub Bolts	1200 Hour		Remove and inspect (See 600 hour inspection)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 33 (NOTE 1)
Tail Rotor Hub Assembly	2400 Hours		Remove and inspect	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 33

NOTE 1: Time interval based on previous experience.

Chapter 34 Tail Rotor Blade	Inspection Interval	Overhaul Interval	Task Required	Reference
Tail Rotor Blade	600 Hour		Remove tail rotor blades and inspect. (See 600 hour inspection)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 34 (NOTE 1)
Tail Rotor Blade	2400 Hour		Remove tail rotor blades and inspect.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 34

NOTE 1: Time interval extended from 300 to 600 based on previous experience.

Chapter 41 Main Rotor Controls	Inspection Interval	Overhaul Interval	Task Required	Reference
Swashplate Lubrication	100 Hour		Lubricate (see all phases)	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 41
Swashplate	300 Hour		Visually inspect (See phase 1,4)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 41 (NOTE 1)
Swashplate	12 Month		12 Month Visual inspection	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 41 ASB BO105-10-120
Swashplate	3000 Hour		Visually inspect (See 2400 Hour inspection)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 41 (NOTE 2)
Mixing Lever Assembly	3000 Hour		Remove, disassemble, and inspect (See 2400 Hour inspection)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 41 (NOTE 2)

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Chapter 41 Main Rotor Controls	Inspection Interval	Overhaul Interval	Task Required	Reference
Flight Control Rods	3000 Hour/4 Year		Remove, disassemble, and inspect (See 600 hour inspection)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 41, 43 (NOTE 2,3)

NOTE 1: 300 hour requirement ASB 40-103 incorporated into the MM

NOTE 2: Perform swashplate, mixing lever assembly, and flight control rod inspections on the occasion of main transmission overhaul, if possible.

NOTE 3: Time interval based on previous experience.

Chapter 43 Hydraulic Systems	Inspection Interval	Overhaul Interval	Task Required	Reference
Hydraulic Fluid Change	4 Year		Replace Hyd. Fluid (See 600 Hour inspection)	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 43 (NOTE 1)
Hydraulic Filter Change	4 Year		Replace Hyd. Filter (See 600 Hour inspection)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 43 (NOTE 1, 2)
Hydraulic Switch Over Test	12 Month		Perform 12 month hydraulic switch over test	AD 96-08-04
Flat Spring	300 Hour	2400 Hour	300 Hour function test (See phase 1,4) 2400 Hour replacement (See 2400 Hour inspection)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 43
Hydraulic Pump	600 Hour	1800 Hour (NOTE 3)	600 Hour lube (See 600 Hour inspection) 1800 Hour hydraulic pump overhaul	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 43 BO-105 Aircraft Maintenance Manual Ch. 101-14.1 43 (NOTE 1)

NOTE 1: the 2 year requirement was extended to 4 years as per previous experience.

NOTE 2: If the hydraulic unit was not returned to service after filter replacement, the filter need not be replaced again until 4 years after return to service.

NOTE 3: Applicable to P/N AP05VC-032 only.

Chapter 51 Landing Gear	Inspection Interval	Overhaul Interval	Task Required	Reference
Cross Tubes	600 Hour		Inspect the internal cross tubes for corrosion. (See 600 Hour inspection)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 51

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Chapter 61 Engine	Inspection Interval	Overhaul Interval	Task Required	Reference
Starter Generator	200 Hour		200 Hour brush inspection	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 92
Starter Generator	400 Hour	1200 Hour	400 Hour brush replacement	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 92
Engine Chip Detectors	12 Month		Test magnetic retention force	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 61
Oil Tank Drain Plugs	12 Month		Test magnetic retention force	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 63
NiCad External Oil Filter	600 Hour		600 Hour bypass check	RR CSL-1164
Turbine Outlet Temperature Check	300 Hour		300 hour inspect and test	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 91 (NOTE 2)
Engine Oil Change	300 Hour		300 hour oil change	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour (NOTE 2)
Fuel Nozzle	150 Hour	2500 Hour	Cleaning and inspection (See all phases)	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour
Engine Fuel Filter	300 Hour		Remove, inspect, and replace (See phases 1,4)	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour
Airframe Fuel Filter	300 Hour		Remove, inspect, and replace (See phases 1,4)	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 828
Exhaust Clamp	300 Hour		Remove clamp and inspect for cracks using NDT	ASB 105-60-107 Latest revision
Bleed Valve		1500 Hour	1500 Hour overhaul	RR 250 C20 OMM
Governor		2000 Hour	2000 Hour overhaul	RR 250 C20 OMM
Fuel Control		2500 Hour	2500 Hour overhaul	RR 250 C20 OMM
Fuel Pump P/N 6899253		4000 Hour	4000 Hour overhaul	RR 250 C20 OMM
Gearbox		20000 Hour	20000 Hour overhaul	RR 250 C20 OMM
Turbine		3500 Hour	3500 Hour overhaul	RR 250 C20 OMM
Compressor	1750 Hour	3500 Hour	3500 Hour overhaul	RR 250 C20 OMM

NOTE 1: Inspection and overhaul requirements adjusted based on previous experience.

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NOTE 2: 300 Hour inspection only. 12 Month requirement is not complied with as per previous experience.

Chapter 62 Instruments	Inspection Interval	Overhaul Interval	Task Required	Reference
Fuel Differential Pressure Switch	12 Month		12 Month serviceability check	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 62
Fuel Shutoff Valves	12 Month		12 Month serviceability check	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 62

Chapter 91 Instruments	Inspection Interval	Overhaul Interval	Task Required	Reference
Compass Swing	As required see section 2.05 Conditional Inspections		Compass calibration	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 91
Avionics Inspection	12 Month		12 Month serviceability check	
VOR	12 Month		12 Month serviceability check (See annual avionics check)	FAR 91.171
Transponder	24 Month		24 Month serviceability check	FAR 91.413 and appendix F
Pitot Static Check	24 Month		24 Month serviceability check	FAR 91.411 and appendix E
Skywatch	12 Month		12 Month serviceability check (See phases 1,4)	ICA

Chapter 92 Electrical System	Inspection Interval	Overhaul Interval	Task Required	Reference
Battery Temperature Warning System (Airframe)	12 Month		12 Month serviceability check	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 92
Aircraft Battery, (NiCad)	6 Month		Recondition and deep cycle	SAFT or Marathon Maintenance Manual
Aircraft Battery, (Lead Acid)	12 Month	4 year	12 month capacitance check	Concorde CMM 24-30-71 (NOTE 1)
Airframe Battery Connector	12 Month		12 month serviceability check	Marathon Maintenance Manual Inspection Section

NOTE 1: Initial check at 12 months after initial installation. As long as the capacity is above 90%, subsequent capacity checks are every 6 months in service. If the capacity is between 85 and 90%, subsequent capacity checks are every 3 months in service. If capacity is less than 85%, remove battery from service.

Chapter 801 Optional Equipment	Inspection Interval	Overhaul Interval	Task Required	Reference
Seat Belts	300 Hour		300 Hour serviceability check	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 801

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Chapter 801 Optional Equipment	Inspection Interval	Overhaul Interval	Task Required	Reference
Anti-settling Shoes	50 Hour		50 Hour serviceability check	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 823
Pendulum Absorbers	300 Hour		300 Hour serviceability check	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 844
Wire Strike Protection System	300 Hour		300 Hour serviceability check (See phase 3,6)	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 859
Litter Retention System	300 Hour		300 Hour serviceability check (See phase 3,6)	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 821
Cargo Hook	300 Hours	60 Month	Inspect for condition (See phase 1,2,3,4,5,6)	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 822 Onboard Systems ICA
Emergency Locator Beacon (ELT)	1 Month		1 month self-test	Artex Manual
Emergency Locator Beacon (ELT)	12 Month		12 Month serviceability check (See annual avionics check)	Artex Manual, FAR 91.207 (d)
Emergency Locator Beacon (ELT)	24 Month	60 Month	24 Month registration, 60 month battery replacement	Artex Manual
Personal Locator Beacon (PLB)	6 Month		Visual inspection and BIT test	TechTest MM
Personal Locator Beacon (PLB)	24 Month		24 Month registration renewal	TechTest MM
Personal Locator Beacon (PLB)	60 Month		60 Month battery replacement	TechTest MM
Acoustic Beacon	6 Month	72 Month	6 Month operational test, 72 Month replacement	Manufactures manual
Fire Extinguisher	1 Month		1 Month visual inspection	NFPA 10
Fire Extinguisher	12 Month		12 Month internal inspection	NFPA 10
Fire Extinguisher	72 Month	144 Month	72 Month inspection, 144 Month hydrostatic test	NFPA 10
First Aid Kit	12 Month		Inspect kit for proper contents and expiration dates	MHI CALM
Survival Kit	12 Month		Inspect kit for proper contents and expiration dates	MHI CALM

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2.03 Required Torque Check

Torque Checks	At Hours Since New or Since Installed
Tail Rotor Gearbox	5-10 hours

2.04 After Installation Check

After Installation Check	At Hours Since New or Since Installed
Engine oil system contamination inspection to be complied with after the first 50 hours of operation of a new, overhauled, or repaired engine. See RR OMM CH 72-00-00 PAR 1. B	50 Hours
Intermediate and tail rotor gearbox oil system inspection to be complied with after the first 50 hours of operation of new, overhauled, or repaired gearboxes. See BO-105 Aircraft maintenance manual Ch. 101-3.1 11	50 Hours
Transmission oil system inspection to be complied with after the first 50 hours of operation of a new, overhauled, or repaired transmission. See BO-105 Aircraft maintenance manual Ch. 101-3.1 11	50 Hours

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2.05 Conditional Inspections

Conditional Inspection
A compass swing must be performed on the following occasions: • Whenever a new compass is installed. • When the accuracy of the compass is suspected. • After any cockpit modification or major replacement involving ferrous metal. • Whenever a compass has been subjected to a shock; for example, after a hard landing or severe turbulence. • After aircraft has passed through a severe electrical storm. • After lighting strike. • Whenever a change is made to the electrical system. • Whenever a change of cargo is likely to affect the compass. • When an aircraft operation is changed to a different geographic location (e.g., Miami, Florida to Fairbanks, Alaska) with a major change in magnetic deviation. • After aircraft has been parked on one heading for over a year. • When flux valves are replaced.

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Section 3.0 Inspections

3.01 Scheduled Inspections

Inspections included in the Approved Aircraft Inspection Program are the Daily Airworthiness Check, Ten Day Preventative Maintenance Inspection (10 Day PMI), Phase Inspections, 600 Hour/4 Year Inspection, 2400 Hour Inspection, Starter Generator Inspection, and other inspections determined by Maritime Helicopters Inc. necessary to maintain its aircraft in an airworthy condition.

Detailed procedures for conducting inspections under this program are found on applicable inspection forms. Logbook entries are required to document the completion of the inspections. Mechanics are responsible to ensure all inspections/discrepancies that are not carried on the aircraft status sheet, (i.e. MEL, NEF, torque checks, etc...) are entered in the "logbook ladder" section of the logbook and are complied with in an "on-time" basis.

The Daily Airworthiness Check is to be performed by a qualified mechanic after each day of operation excluding the day the Daily Airworthiness Check was performed. This inspection is valid until the aircraft is operated or three calendar days. A separate logbook entry shall be made if the Daily Airworthiness Check is required after three days. The mechanic shall use the MHI Daily Airworthiness Check guide located in this appendix. The inspection forms for the Daily Airworthiness Check do not provide a place for initials or signatures to indicate compliance.

Under certain conditions an aircraft may be operated without a current Daily Airworthiness Check:

1. If a mechanic is not available a Daily Airworthiness Check is not required until the aircraft returns to a location with a mechanic or the next Ten Day Preventative Maintenance Inspection is due.
2. The aircraft is being operated for maintenance troubleshooting or POC purposes provided:
 - a) The aircraft will be returning to the same point of departure without

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stopping at any other locations.

- b) All discrepancies have been signed off and inspected (if required) with the exception of the open discrepancy you are operating the aircraft for.
- c) The aircraft must have a current Daily Airworthiness Check prior to returning to service.

Approval for either case shall be approved by the Director of Maintenance or the Chief Inspector.

The 10 Day PMI may be performed any time within a ten flight day period to meet scheduling requirements. This inspection is a visual inspection with the aircraft cowling removed. The inspection form is located in this appendix and in the aircraft logbook.

The six hundred flight hour phase inspection cycle consists of six (6) equalized phase inspections, each of which is performed at intervals not to exceed 100 hours' time in service since the beginning time of the previous phase inspection.

- Phase one (1) inspection accomplished at intervals not to exceed 100 hours since the start of the last phase six (6) inspection.
- Phase two (2) inspection accomplished at intervals not to exceed 100 hours since the start of the last phase one (1) inspection.
- Phase three (3) inspection accomplished at intervals not to exceed 100 hours since the start of the last phase two (2) inspection.
- Phase four (4) inspection accomplished at intervals not to exceed 100 hours since the start of the last phase three (3) inspection.
- Phase five (5) inspection accomplished at intervals not to exceed 100 hours since the start of the last phase four (4) inspection.
- Phase six (6) inspection accomplished at intervals not to exceed 100 hours since the start of the last phase five (5) inspection.

Each phase is divided into 5 sections and may be completed in any order. The aircraft may be flown with a partial Phase Inspection completed, but cannot be flown with a Phase Inspection Section partially completed. Sections started must be completed to release the aircraft for flight during the Phase Inspection. The sections are devoted to an aircraft as follows:

- Section 1, Engine and associated items within the engine compartment.

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- Section 2, Tailboom and associated items mounted on the tailboom.
- Section 3, Main Cabin, Flight Controls, Instruments, Passenger and Cargo areas, Fuel System, and External Equipment.
- Section 4, Main Drive Train, Rotor System, Hydraulic System, and Oil System.
- Section 5, Airworthiness Documentation, Miscellaneous Kit Inspection.

The 600 hour/4 Year inspection shall be performed at intervals not to exceed 600 flight hours or 4 years aircraft time in service since the previous inspection. The 600 hour/4 Year inspection includes items requiring maintenance or inspection every 600 flight hours or 4 years

The 2400 hour inspection shall be performed at intervals not to exceed 2400 flight hours aircraft time in service since the previous inspection. The 2400 hour inspection includes items requiring maintenance or inspection every 2400 flight hours

The Starter Generator Inspection is required when a Starter Generator is due inspection or brush change

Maritime Helicopters Inc. may create and use other supplementary forms as it deems necessary for documenting inspections and checks required to maintain its aircraft in an airworthy condition. These supplementary forms shall not be in contradiction to any regulations or manufacturer's instructions.

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Daily Airworthiness Check

General	
1.	Review aircraft computer status sheet, Deferred/NEF/MEL list, and logbook ladder for upcoming maintenance and/or inspection requirements.
Fuselage Right Side	
1.	Check fuselage for damage and evidence of fuel leaks; drain fuel tank sumps.
2.	Check cabin windows for damage and cleanliness.
3.	Check all doors for damage, function, and that the jettison handles are secured.
4.	Check static port, pitot tube, drain ports and vents for damage and free of obstructions.
5.	Check landing gear and steps for damage and general condition.
6.	Check engine oil tanks for security of mounting, evidence of leaks, filler caps secured and proper oil level. Inspect NiCad oil filters for bypass indication.
7.	Check oil coolers for general condition and leaks.
8.	Check transmission for damage and evidence of leakage, proper oil level and security of attachment. Check visible portion of transmission struts for condition and security.
9.	Check transmission compartment for FOD. Remove and replace cowling as necessary to inspect and/or clean area.
10.	Check rotor brake oil reservoir for proper oil level and filler cap secured. Check brake pads for freedom of movement by hand.
11.	Check engine air intakes for damage, dirt and FOD, free of ice/snow. Turn compressor by hand.
12.	Turn main drive shaft by hand and ensure freewheeling clutch operation. Check drive shaft for condition.
13.	Check engine compartment ventilation air intake for obstructions.
14.	Check engine for damage, security of mounting, fuel-oil-air lines, manifolds and wiring for security and chafing.
15.	Check engine compartment for general condition, fuel and oil leaks. Check exhaust pipes for condition and security.
16.	Check N1 and N2 governors and connections for condition and security.
17.	Check starter for condition and security.
18.	Check battery for damage, electrolyte seepage, security of mounting and battery vents clear.

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Daily Airworthiness Check

Fuselage Right Side	
19.	Check right side of fuselage for damage.
20.	Check clam shell doors for damage and security.
21.	Check spoiler for condition and security.

Tailboom	
1.	Check right side of tail boom for damage. Check security of VOR blade antenna.
2.	Check right horizontal and vertical stabilizer and position light for damage and security.
3.	Check vertical fin, tail and strobe light, for damage and security.
4.	Check tail rotor transmission oil level, security and evidence of leakage.
5.	Check tail rotor hub and blades for condition and damage. Check fork bearings for excessive play.
6.	Check vertical fin cowling for security.
7.	Check intermediate gearbox oil level, security and evidence of leakage
8.	Check tail skid for damage.
9.	Check left horizontal and vertical stabilizer and position light for damage and security.
10.	Check left side of tail boom for damage. Check security of VOR blade antenna
11.	Check drain ports for obstructions.

Fuselage Left Side	
1.	Check fuel cap closed and secure.
2.	Check fuselage left side for general condition.
3.	Check static port, pitot tube, drain ports and vents for damage and free of obstructions.
4.	Check engine air intakes for damage, dirt and FOD, free of ice/snow. Turn compressor by hand.
5.	Turn main drive shaft by hand and ensure freewheeling clutch operation. Check driveshaft for condition.
6.	Check engine compartment ventilation air intake for obstructions.
7.	Check engine for damage, security of mounting, fuel-oil-air lines, manifolds and wiring for security and chafing.

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Daily Airworthiness Check

Fuselage Left Side	
8.	Check engine compartment for general condition, fuel and oil leaks. Check exhaust pipes for condition and security.
9.	Check N1 and N2 governors and connections for condition and security.
10.	Check starter for condition and security.
11.	Check hydraulic and system for leakage.
12.	Icing conditions, check area between control levers of hydraulic system II and compartment floor, remove any ice with warm air or ethylene glycol. Fill control rod boots with ethylene glycol to prevent ice buildup.
13.	Hydraulic filter clogging indicator pin (four), check that pins are in.
14.	Check hydraulic fluid reservoirs for condition, security and proper fluid level.
15.	Ensure service fitting caps are installed
16.	Check selector valves are in the upper position, system I.
17.	Check hydraulic compartment for foreign matter.
18.	Check transmission for condition, security of mounting and evidence of leakage.
19.	Check main rotor head oil level.
20.	Check main rotor blades for general condition and FOD.
21.	Grease pendulum absorbers. Check for rough bearings.
22.	Check main rotor head drive link assembly and mixing lever assembly for general condition.
23.	Check rotating control rods for general condition and freedom of movement. Comply with AD 87-26-02 R1. Ensure sign off of AD in logbook.
24.	Check main rotor blade bolts for security
25.	Inspect main rotor blade fold bolt locking lever and pin for proper installation and safety.
26.	Check swashplate and boot for damage and general condition.
27.	Icing conditions turn main rotor by hand, normal direction of rotation, and check for oil cooler blower freeze up. Rotate rotor backward and check for turbine freeze up.
28.	Check air intake is damage free. Clear all ice/snow off cabin roof.
29.	Check landing gear and steps for damage and general condition.
30.	Check cabin windows for damage and cleanliness.

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Daily Airworthiness Check

Fuselage Left Side	
31.	Check all doors for damage, function, and that the jettison handles are secured.
32.	Inspect fuselage bottom for condition.

Nose Area	
1.	Check nose compartment, ensure door closed and secure after inspection.
2.	Check cockpit air intake screen clear (winter operations blocked).
3.	Inspect cargo mirror for condition and security
4.	Check belly strobe for condition and security.
5.	Check landing light for condition and security.

Cockpit / Cabin	
1.	Check all switches and circuit breakers are positioned as required.
2.	Battery switch ON: a) Ensure adequate battery voltage. b) Check pitot heat for operation. c) Check position lights for operation. d) Check strobe lights for operation. e) Check landing light for operation. f) Check dome and instruments for operation. g) Function check fuel filter light. h) Collect fuel sample from each filter and each tank. i) Electrical switches OFF. j) Disconnect battery.
3.	Inspect seats and seat belts for condition and attachment. Function check seat belt inertia reels.
4.	Inspect copilots collective and cyclic sticks are secured with safety wire.
5.	Inspect placards and decals for legibility and condition.

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Daily Airworthiness Check

Cockpit / Cabin	
6.	Inspect cabin fire extinguisher for condition and security.
7.	Check that passenger briefing cards are in the aircraft.

Final	
1.	Inspect condition and security of all cowlings and access covers.
2.	Check aircraft documents for proper entries

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Daily Airworthiness Check

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Ten Day Preventive Maintenance Inspection

Ten Day Preventive Maintenance Inspection

#	DESCRIPTION
1.	Perform a complete daily service check.
2.	Inspect the interior of passenger and pilot compartments for condition of interior trim panels and security of attachment.
3.	Inspect instruments for condition, proper range markings and cleanliness.
4.	Inspect aircraft flashlight for operation.
5.	Inspect life rafts and life jackets for general condition; insure that required inspection date has not been exceeded. Check the CO ₂ bottles are installed in life jackets and that they are in good condition.
6.	Inspect cabin doors and hinges for wear and security; door seal condition; windows for condition and latches for operation.
7.	Inspect battery compartment for condition, battery and wiring for condition and security.
8.	Inspect avionics bay for security of equipment.
9.	Inspect antennas and OAT probe for condition and security.
10.	Inspect landing gear for obvious damage, cross tubes for excessive deflection, skid tubes and shoes for security of attachment.
11.	With transmission cowls removed, inspect and clean swashplate support tube. If blade tape is to be replaced, ensure tape does not restrict sliding portion of swashplate.
12.	Wash main rotor hub and blades with mild solution of detergent soap. Rinse with fresh water and wipe dry with clean cloth. Paint eroded areas of blades. Replace spare joint protection rubber as needed.
13.	Check condition of polyurethane erosion protection tape (PUR) on main rotor blades and replace as needed.
14.	Inspect transmission struts for condition and security.
15.	Remove engine cowls and inspect for condition.
16.	Inspect #1 and #2 engines for loose bolts, hose connections, security of accessories and obvious damage. Inspect ignition leads and electrical harness for condition.
17.	Inspect #1 and #2 engine motor mounts for damage, corrosion and security.
18.	Inspect #1 and #2 starter generators for condition of leads and attachment clamps for security.
19.	Inspect #1 and #2 engine compartment ventilation ducts for condition and security.

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Ten Day Preventive Maintenance Inspection

#	DESCRIPTION
20.	Inspect #1 and #2 compressor inlet guide vanes and visible blades for FOD. Inspect compressor liner at inlet. Compressor halves due replacement if worn through liner.
21.	Inspect #1 and #2 turbine support assemblies, outer combustion case and engine exhaust ducts for condition of welded joints for cracks and buckling and condition of reinforcement in armpit areas.
22.	Inspect #1 and #2 engine exhaust clamps for cracks, particularly close to "T" bolt loop.
23.	Inspect rotor brake disk for deformation and pucks for wear.
24.	Operational check of fuel boost pumps. Supply tank pumps verify fuel pressure. Main tank pumps verify sound of fuel transferring to supply tank.
25.	Inspect tail rotor drive shaft for condition and security. Check hanger bearings for wear. Check laminated couplings for condition.
26.	Reinstall removed cowlings
27.	Check front of logbook for MEL, NEF, or deferred items. Ensure all open items are being addressed.
28.	Check weekly Maintenance Report for items coming due.
29.	Make a logbook entry stating that the Ten (10) Day Preventive Maintenance Inspection has been completed.

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 1 Inspection

A/C:	Base:
TT Started:	TT Completed:

Phase 1 Inspection

The technician starting this inspection shall accomplish a Daily Airworthiness Check prior to beginning the phase inspection. The technician must also make a logbook entry stating the phase has been started. Enter any discrepancies found during the inspection in the aircraft logbook.

This inspection is to be performed before or when due, as indicated on the "Next phase" block of the aircraft logbook and on the aircraft status report. All technicians performing work must complete the Inspection Compliance Record on the last page prior to beginning work.

Should the technician elect to do part of this inspection, all items in a section started must be completed before further flight. The technician shall initial the appropriate blocks of the Section Completed, fill in "ACTT Started" on this page, sign the last page and insert the form in the aircraft logbook. The technician must also make a logbook entry stating the section(s) he completed.

The technician completing the inspection must make a logbook entry stating the inspection is complete, sign the "Inspection Completion Statement", and enter the aircraft time when the next phase inspection is due in the "Next Phase" block of the aircraft logbook.

SECTION COMPLETION CERTIFICATION

I certify that in accordance with this Approved Aircraft Inspection Program, a routine inspection of the aircraft and a detailed inspection of the items listed in the below sections were performed and the aircraft is approved for return to service.

Section Number	Section Completion Certified By	Certificate Number	Date
1A			
1B			
2			
3			
4			
5			

INSPECTION COMPLETION STATEMENT

I certify that in accordance with this Approved Aircraft Inspection Program, all sections of this phase inspection have been completed and the aircraft is approved for return to service.

Signature	Certificate Number	Date	ACTT

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 2 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
1.	Check #1 and #2 generator voltage for proper output. Ensure maximum difference between both generator voltages is within limits	BO-105 Aircraft Maintenance Manual Ch. 101-8.1-92		
2.	Perform oil flow check. A minimum of 16% N-1 using battery power only (no APU power) must be reached. Engine must be warm. Connect a hose to oil sump can outlet. Motor engine to establish oil flow. Once oil is flowing, collect oil and continue to motor for exactly 15 seconds from start of collection. Collect oil during coast down. Max N-1 speed attained: _____ Turbine S/N _____ Total CC _____ If less than 110 cc is collected the strut and oil jet must be cleaned within 25 hours (enter in logbook). A minimum of 90 cc oil is required to release aircraft for return to service.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
3.	Inspect the entire engine for loose or missing bolts, broken or loose connections, security of mounting accessory and broken or missing lock wire. Check accessible areas for obvious damage and evidence of fuel or oil leakage.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
4.	Check mounting and support bolts to be sure they are tight, lock wired and in good condition. Check security of screws and rivets. Remove all foreign material which might be drawn into the compressor inlet.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
5.	Inspect all "B" nuts for application and alignment of torque paint. If missing, loosen "B" nut, retighten, and apply torque paint.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
6.	Check accessible fuel system components, lines, and connections for security, damage or leakage. Accomplish with the boost pump on, if available. Remove, visually inspect and clean if visual condition dictates.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
7.	Inspect the outer combustion case for condition. Inspect the weld joints of and in the brazed screen reinforcement in the armpit area.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
8.	Inspect engine firewalls for general condition, cracks, and loose hardware.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 64		
9.	Check fuel control and power turbine governor linkage for freedom of operation, full travel and proper rigging. Check security of linkage for loose or worn linkage and linkage bolts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
10.	Inspect the compressor scroll for cracks or breaks at the anti-ice air valve and customer bleed port. If cracks or breaks are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
11.	Check the condition of the bleed valve gasket, without removing bleed valve. Replace gasket if air leaks (blowouts) can be detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 1 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
12.	Inspect for discharge air tube inserts that are cocked or backing out of the scroll. If cocked or loose inserts are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
13.	Check compressor discharge air tubes for damage or deterioration.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
14.	Check anti-ice valve for security, worn parts and proper operation. Valve need not be removed or disassembled unless a problem is detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
15.	Inspect compressor mount inserts, bolts and nuts for looseness, fretting or oil leakage. Replace or retighten as required. Check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
16.	Remove, clean and reinstall engine fuel nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
17.	Clean engine burner drain valve. Ensure air frame overboard gang drain is clear.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
18.	Remove, inspect igniter plugs for condition, clean, and reinstall.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
19.	Remove engine chip plugs, inspect for contamination and functionally check chip lights by shorting, clean plug, reinstall and safety.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
20.	Inspect the ignition lead for burning, chafing, or cracking of conduit and loose connectors and broken lock wire.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
21.	Remove, inspect and replace engine fuel filters.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
22.	Remove, inspect and replace airframe fuel filters.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 828		
23.	Do a fuel pump bypass valve operation check when a fuel filter is replaced. NOTE: Applicable to Sundstrand/Pesco and Argo-Tech/TRW manufactured pumps only.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
24.	Check security of engine to transmission drive shaft flange bolts. Inspect Drive shaft for condition.	BO-105 Aircraft Maintenance Manual Ch. 11-53 through 11-56.		
25.	Inspect engine accessories and mounting struts for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 61		
26.	Remove and replace filter elements of scavenge oil filters.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 63		
27.	Inspect the turbine support assemblies and engine exhaust ducts for condition of welded joints, for cracks and buckling. Check exhaust duct clamps for proper installation, condition and torque.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour BO-105 Aircraft Maintenance Manual Ch. 101-6.1 61		
28.	Check torque of compressor and turbine mount nuts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
29.	Perform engine compressor wash if environmentally feasible.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 2 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
30.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 1B Engine #2				
#	Item	Reference	Tech	Date
1.	Perform oil flow check. A minimum of 16% N-1 using battery power only (no APU power) must be reached. Engine must be warm. Connect a hose to oil sump can outlet. Motor engine to establish oil flow. Once oil is flowing, collect oil and continue to motor for exactly 15 seconds from start of collection. Collect oil during coast down. Max N-1 speed attained: _____ Turbine S/N _____ Total CC _____ If less than 110 cc is collected the strut and oil jet must be cleaned within 25 hours (enter in logbook). A minimum of 90 cc oil is required to release aircraft for return to service.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
2.	Inspect the entire engine for loose or missing bolts, broken or loose connections, security of mounting accessory and broken or missing lock wire. Check accessible areas for obvious damage and evidence of fuel or oil leakage.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
3.	Check mounting and support bolts to be sure they are tight, lock wired and in good condition. Check security of screws and rivets. Remove all foreign material which might be drawn into the compressor inlet.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
4.	Inspect all "B" nuts for application and alignment of torque paint. If missing, loosen "B" nut, retighten, and apply torque paint.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
5.	Check accessible fuel system components, lines, and connections for security, damage or leakage. Accomplish with the boost pump on, if available. Remove, visually inspect and clean if visual condition dictates.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
6.	Inspect the outer combustion case for condition. Inspect the weld joints of and in the brazed screen reinforcement in the armpit area.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
7.	Inspect engine firewalls for general condition, cracks, and loose hardware.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 64		
8.	Check fuel control and power turbine governor linkage for freedom of operation, full travel and proper rigging. Check security of linkage for loose or worn linkage and linkage bolts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 1 Inspection

Section 1B Engine #2				
#	Item	Reference	Tech	Date
9.	Inspect the compressor scroll for cracks or breaks at the anti-ice air valve and customer bleed port. If cracks or breaks are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
10.	Check the condition of the bleed valve gasket, without removing bleed valve. Replace gasket if air leaks (blowouts) can be detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
11.	Inspect for discharge air tube inserts that are cocked or backing out of the scroll. If cocked or loose inserts are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
12.	Check compressor discharge air tubes for damage or deterioration.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
13.	Check anti-ice valve for security, worn parts and proper operation. Valve need not be removed or disassembled unless a problem is detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
14.	Inspect compressor mount inserts, bolts and nuts for looseness, fretting or oil leakage. Replace or retighten as required. Check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
15.	Remove, clean and reinstall engine fuel nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
16.	Clean engine burner drain valve. Ensure air frame overboard gang drain is clear.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
17.	Remove, inspect igniter plugs for condition, clean, and reinstall.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
18.	Remove engine chip plugs, inspect for contamination and functionally check chip lights by shorting, clean plug, reinstall and safety.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
19.	Inspect the ignition lead for burning, chafing, or cracking of conduit and loose connectors and broken lock wire.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
20.	Remove, inspect and replace engine fuel filters.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
21.	Remove, inspect and replace airframe fuel filters.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 828		
22.	Do a fuel pump bypass valve operation check when a fuel filter is replaced. NOTE: Applicable to Sundstrand/Pesco and Argo-Tech/TRW manufactured pumps only.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
23.	Check security of engine to transmission drive shaft flange bolts. Inspect Drive shaft for condition.	BO-105 Aircraft Maintenance Manual Ch. 11-53 through 11-56.		
24.	Inspect engine accessories and mounting struts for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 61		
25.	Remove and replace filter elements of scavenge oil filters.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 63		

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 2 Inspection

Section 1B Engine #2				
#	Item	Reference	Tech	Date
26.	Inspect the turbine support assemblies and engine exhaust ducts for condition of welded joints, for cracks and buckling. Check exhaust duct clamps for proper installation, condition and torque.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour BO-105 Aircraft Maintenance Manual Ch. 101-6.1 61		
27.	Check torque of compressor and turbine mount nuts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
28.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 2				
#	Item	Reference	Tech	Date
1.	Without disassembly, inspect spherical bearings in fork end of tail rotor shaft.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 33		
2.	Grease splines of tail rotor shaft for sliding sleeve.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33		
3.	Grease ball bearing of sliding sleeve.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33		
4.	Check ball bearings of sliding sleeve for proper running and absence of play.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33		
5.	Inspect tail rotor blades for impact damage and cracks in surface protection. The cover tape in the nose area does not have to be removed.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 34		
6.	Inspect tail rotor assembly for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33		
7.	Perform tail rotor dynamic balance check.	BO-105 Aircraft Maintenance Manual Ch. 107-3		
8.	Inspect drain hole in tail boom for obstructions.			
9.	Inspect tail rotor gearbox attach fitting in vertical fin for loose rivets and cracks	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 31		
10.	Inspect intermediate gearbox and tail rotor gearbox for security, leaks, condition and corrosion.	BO-105 Aircraft Maintenance Manual Ch. 32		
11.	Inspect, functionally test, clean, and reinstall intermediate gearbox magnetic chip plug.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 32		
12.	Inspect, functionally test, clean, and reinstall tail rotor gearbox magnetic chip plug	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 32		
13.	Inspect tail rotor drive for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 32		

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 1 Inspection

Section 2				
#	Item	Reference	Tech	Date
14.	Anti-collision light mounting bracket on vertical fin; remove clamping ring and pull up lamp as far as possible. Inspect both sides of radius area between flange and cylindrical part of bracket for cracks. Discard defective brackets. Inspect clamp for condition and welded joint between lugs for tightening screw and the clamping ring for broken weld spots, reinstall lamp.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 92 Previous phase program		
15.	Inspect long tail rotor drive shaft (without removal) for condition, corrosion, cracks or other damage, check bearings for rough running, radial play, corrosion and rubber bushings for condition. Check tail rotor brackets for condition.	BO-105 Aircraft Maintenance Manual Ch. 32-4 or 32-5.		
16.	Remove bolt connecting tail rotor shaft to tail rotor head, clean and inspect bolt for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33		
17.	Loosen boots and inspect visible part of tail rotor gearbox output shaft for condition (without removal).			
18.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 3				
#	Item	Reference	Tech	Date
1.	Check external cargo mirror for condition and security of attachment, if installed.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 837		
2.	Inspect cargo hook system for condition. Electrical and manual release system for operation, if installed.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 822		
3.	Inspect landing gear for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 51		
4.	Ventilate dual torque indication system	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 91		
5.	Check condition and security of maintenance steps and grips if installed.			
6.	If floats are installed inspect for security and condition. Check pressure of bottle.	Air Cruisers Manufactures Manual		
7.	Inspect landing gear for condition.	BO-105 Aircraft Maintenance Manual Ch. 51-2		
8.	Check long range fuel tank for condition. (if tank remains installed)	BO-105 Aircraft Maintenance Manual Ch. 101-6.2 831		
9.	Visually inspect baffle plate, located between oil cooler and fan, and attaching clamps for cracks	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 63		
10.	Inspect Skywatch 497 components for security of attachment and condition of wiring.	ICA		
11.	Inspect pilot and copilot seats for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 700		

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Phase 2 Inspection

Section 3				
#	Item	Reference	Tech	Date
12.	Inspect split bench seat for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 806		
13.	Inspect harnesses, buckles and inertia reels for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 700		
14.	Drain moisture from pitot/static system.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 91		
15.	Remove fuselage inspection panel under front seats. Inspect airframe area for cracks and general condition. Inspect control rods, wiring, plumbing, and heater installation for general condition.	BO-105 Aircraft Maintenance Manual Ch. 51.		
16.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 4				
#	Item	Reference	Tech	Date
1.	Inspect chip detector of main transmission for deposits, functionally test, clean and reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
2.	Inspect main rotor system for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13		
3.	Inspect M/R blades for condition. Ensure scarf joints are sealed and blade paint is touched up. Check pendulum absorbers for free rotation. Check oil level or lubricate.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 14		
4.	Inspect flight control components (boosted section of flight controls) located above the hydraulic system including swashplate for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 41		
5.	Inspect swashplate driving link assembly for condition and bearings for play.	BO-105 Aircraft Maintenance Manual Ch. 13-22.		
6.	Visually inspect seals on upper rod ends for condition. The following control rods are affected: a) Vertical control rods below hydraulic unit b) Control rods between hydraulic unit and mixing lever assembly c) Rotating control rods.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 41		
7.	Remove secondary blade bolts, clean, inspect, and apply lubricant, reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13		
8.	Remove locking lever assembly, clean and inspect for condition (crack inspection not required)	BO-105 Aircraft Maintenance Manual Ch. 101-8.2 854		
9.	Inspect main transmission and attached parts for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 11		

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 1 Inspection

Section 4				
#	Item	Reference	Tech	Date
10.	Inspect hydraulic system as follows: a. Inspect for general condition b. Check input levers for excessive play c. Check eyebolt bearings for excessive play d. Check piston rod couplings for correct clearance and freedom of axial play. e. Spray coat N ₂ lever with corrosion preventative compound.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 43		
11.	Inspect control rods between mixing lever assembly and swashplate for condition, bearings for excessive play (control rod removed).	BO-105 Aircraft Maintenance Manual Ch. 43		
12.	Inspect mixing lever assembly for condition and bearings for looseness or binding.	BO-105 Aircraft Maintenance Manual Ch. 41-68.		
13.	Check filter contamination indicator (lateral indicator pin configuration)	BO-105 Aircraft Maintenance Manual Ch. 43-14		
14.	Clean transmission oil filter and inspect for contamination	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
15.	Visually inspect swashplate for general condition and visually inspect bearing forks of control ring and bearing ring for cracks using a 6X magnifying glass (300hr requirement ASB 40-103 incorporated into the MM)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 41		
16.	Clean swashplate sliding surface on support tube. Move swashplate to uppermost position to expose sliding surface.	BO-105 Aircraft Maintenance Manual Ch. 41-3		
17.	Lubricate swashplate bearing.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 41		
18.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 2 Inspection

Section 5				
#	Item	Reference	Tech	Date
1.	Check that Registration Certificate, Airworthiness Certificate, Flight Manual and Operations Manual are in their proper place.			
2.	Check weekly status report for any time change components, Service Bulletins, Technical Bulletins, Airworthiness Directives, or special inspections due.			
3.	Inspect aircraft first aid kit and survival kit for proper seal, if broken; check contents.			
4.	Insure placards and decals required by the Rotorcraft Flight Manual Limitations Section for installed equipment are in place and legible. Inspect for external load combination placard.	Flight manual, FAR 133.149		

INSPECTION COMPLIANCE RECORD

I certify that I have inspected all items initialed by me in accordance with this Maritime Helicopters Inc. Approved Aircraft Inspection Program phase inspection and found them to be in an airworthy condition.

Signature	Certificate Number	Initials	Date

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 2 Inspection

A/C:	Base:
TT Started:	TT Completed:

Phase 2 Inspection

The technician starting this inspection shall accomplish a Daily Airworthiness Check prior to beginning the phase inspection. The technician must also make a logbook entry stating the phase has been started. Enter any discrepancies found during the inspection in the aircraft logbook.

This inspection is to be performed before or when due, as indicated on the "Next phase" block of the aircraft logbook and on the aircraft status report. All technicians performing work must complete the Inspection Compliance Record on the last page prior to beginning work.

Should the technician elect to do part of this inspection, all items in a section started must be completed before further flight. The technician shall initial the appropriate blocks of the Section Completed, fill in "ACTT Started" on this page, sign the last page and insert the form in the aircraft logbook. The technician must also make a logbook entry stating the section(s) he completed.

The technician completing the inspection must make a logbook entry stating the inspection is complete, sign the "Inspection Completion Statement", and enter the aircraft time when the next phase inspection is due in the "Next Phase" block of the aircraft logbook.

SECTION COMPLETION CERTIFICATION

I certify that in accordance with this Approved Aircraft Inspection Program, a routine inspection of the aircraft and a detailed inspection of the items listed in the below sections were performed and the aircraft is approved for return to service.

Section Number	Section Completion Certified By	Certificate Number	Date
1A			
1B			
2			
3			
4			
5			

INSPECTION COMPLETION STATEMENT

I certify that in accordance with this Approved Aircraft Inspection Program, all sections of this phase inspection have been completed and the aircraft is approved for return to service.

Signature	Certificate Number	Date	ACTT

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 2 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
1.	Check #1 and #2 generator voltage for proper output. Ensure maximum difference between both generator voltages is within limits	BO-105 Aircraft Maintenance Manual Ch. 101-8.1-92		
2.	Perform oil flow check. A minimum of 16% N-1 using battery power only (no APU power) must be reached. Engine must be warm. Connect a hose to oil sump can outlet. Motor engine to establish oil flow. Once oil is flowing, collect oil and continue to motor for exactly 15 seconds from start of collection. Collect oil during coast down. Max N-1 speed attained: _____ Turbine S/N _____ Total CC _____ If less than 110 cc is collected the strut and oil jet must be cleaned within 25 hours (enter in logbook). A minimum of 90 cc oil is required to release aircraft for return to service.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
3.	Inspect the entire engine for loose or missing bolts, broken or loose connections, security of mounting accessory and broken or missing lock wire. Check accessible areas for obvious damage and evidence of fuel or oil leakage.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
4.	Check mounting and support bolts to be sure they are tight, lock wired and in good condition. Check security of screws and rivets. Remove all foreign material which might be drawn into the compressor inlet.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
5.	Inspect all "B" nuts for application and alignment of torque paint. If missing, loosen "B" nut, retighten, and apply torque paint.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
6.	Check accessible fuel system components, lines, and connections for security, damage or leakage. Accomplish with the boost pump on, if available. Remove, visually inspect and clean if visual condition dictates.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
7.	Inspect the outer combustion case for condition. Inspect the weld joints of and in the brazed screen reinforcement in the armpit area.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
8.	Inspect engine firewalls for general condition, cracks, and loose hardware.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 64		
9.	Check fuel control and power turbine governor linkage for freedom of operation, full travel and proper rigging. Check security of linkage for loose or worn linkage and linkage bolts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
10.	Inspect the compressor scroll for cracks or breaks at the anti-ice air valve and customer bleed port. If cracks or breaks are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 2 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
11.	Check the condition of the bleed valve gasket, without removing bleed valve. Replace gasket if air leaks (blowouts) can be detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
12.	Inspect for discharge air tube inserts that are cocked or backing out of the scroll. If cocked or loose inserts are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
13.	Check compressor discharge air tubes for damage or deterioration.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
14.	Check anti-ice valve for security, worn parts and proper operation. Valve need not be removed or disassembled unless a problem is detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
15.	Inspect compressor mount inserts, bolts and nuts for looseness, fretting or oil leakage. Replace or retighten as required. Check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
16.	Remove, clean and reinstall engine fuel nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
17.	Clean engine burner drain valve. Ensure air frame overboard gang drain is clear.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
18.	Remove, inspect igniter plugs for condition, clean, and reinstall.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
19.	Remove engine chip plugs, inspect for contamination and functionally check chip lights by shorting, clean plug, reinstall and safety.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
20.	Inspect the ignition lead for burning, chafing, or cracking of conduit and loose connectors and broken lock wire.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
21.	Remove, clean and inspect engine Pc filter.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
22.	Remove, inspect and clean #1 bearing oil pressure reducer.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
23.	Inspect scavenge oil strut in the power turbine support. Clean carbon deposits from strut.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
24.	Visually inspect external sump. Clean internal carbon deposits and build up from sump or replace if necessary.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
25.	Inspect No. 6 and 7 bearing pressure oil nozzle. Clean internal carbon deposits from nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
26.	Inspect and clean turbine pressure oil check valve. NOTE: Check Valve P/N 23074872 and subsequent part numbers are not applicable to this inspection (these valves are considered "ON CONDITION").	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
27.	Inspect the turbine support assemblies and engine exhaust ducts for condition of welded joints, for cracks and buckling. Check exhaust duct clamps for proper installation, condition and torque.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour BO-105 Aircraft Maintenance Manual Ch. 101-6.1 61		
28.	Check torque of compressor and turbine mount nuts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 2 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
29.	Perform engine compressor wash if environmentally feasible.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
30.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 1B Engine #2				
#	Item	Reference	Tech	Date
1.	Perform oil flow check. A minimum of 16% N-1 using battery power only (no APU power) must be reached. Engine must be warm. Connect a hose to oil sump can outlet. Motor engine to establish oil flow. Once oil is flowing, collect oil and continue to motor for exactly 15 seconds from start of collection. Collect oil during coast down. Max N-1 speed attained: _____ Turbine S/N _____ Total CC _____ If less than 110 cc is collected the strut and oil jet must be cleaned within 25 hours (enter in logbook). A minimum of 90 cc oil is required to release aircraft for return to service.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
2.	Inspect the entire engine for loose or missing bolts, broken or loose connections, security of mounting accessory and broken or missing lock wire. Check accessible areas for obvious damage and evidence of fuel or oil leakage.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
3.	Check mounting and support bolts to be sure they are tight, lock wired and in good condition. Check security of screws and rivets. Remove all foreign material which might be drawn into the compressor inlet.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
4.	Inspect all "B" nuts for application and alignment of torque paint. If missing, loosen "B" nut, retighten, and apply torque paint.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
5.	Check accessible fuel system components, lines, and connections for security, damage or leakage. Accomplish with the boost pump on, if available. Remove, visually inspect and clean if visual condition dictates.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
6.	Inspect the outer combustion case for condition. Inspect the weld joints of and in the brazed screen reinforcement in the armpit area.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
7.	Inspect engine firewalls for general condition, cracks, and loose hardware.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 64		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 2 Inspection

Section 1B Engine #2				
#	Item	Reference	Tech	Date
8.	Check fuel control and power turbine governor linkage for freedom of operation, full travel and proper rigging. Check security of linkage for loose or worn linkage and linkage bolts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
9.	Inspect the compressor scroll for cracks or breaks at the anti-ice air valve and customer bleed port. If cracks or breaks are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
10.	Check the condition of the bleed valve gasket, without removing bleed valve. Replace gasket if air leaks (blowouts) can be detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
11.	Inspect for discharge air tube inserts that are cocked or backing out of the scroll. If cocked or loose inserts are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
12.	Check compressor discharge air tubes for damage or deterioration.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
13.	Check anti-ice valve for security, worn parts and proper operation. Valve need not be removed or disassembled unless a problem is detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
14.	Inspect compressor mount inserts, bolts and nuts for looseness, fretting or oil leakage. Replace or retighten as required. Check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
15.	Remove, clean and reinstall engine fuel nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
16.	Clean engine burner drain valve. Ensure air frame overboard gang drain is clear.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
17.	Remove, inspect igniter plugs for condition, clean, and reinstall.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
18.	Remove engine chip plugs, inspect for contamination and functionally check chip lights by shorting, clean plug, reinstall and safety.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
19.	Inspect the ignition lead for burning, chafing, or cracking of conduit and loose connectors and broken lock wire.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
20.	Remove, clean and inspect engine Pc filter.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
21.	Remove, inspect and clean #1 bearing oil pressure reducer.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
22.	Inspect scavenge oil strut in the power turbine support. Clean carbon deposits from strut.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
23.	Visually inspect external sump. Clean internal carbon deposits and build up from sump or replace if necessary.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
24.	Inspect No. 6 and 7 bearing pressure oil nozzle. Clean internal carbon deposits from nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 2 Inspection

Section 1B Engine #2				
#	Item	Reference	Tech	Date
25.	Inspect and clean turbine pressure oil check valve. NOTE: Check Valve P/N 23074872 and subsequent part numbers are not applicable to this inspection (these valves are considered "ON CONDITION").	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
26.	Inspect the turbine support assemblies and engine exhaust ducts for condition of welded joints, for cracks and buckling. Check exhaust duct clamps for proper installation, condition and torque.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour BO-105 Aircraft Maintenance Manual Ch. 101-6.1 61		
27.	Check torque of compressor and turbine mount nuts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
28.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 2				
#	Item	Reference	Tech	Date
1.	Without disassembly, inspect spherical bearings in fork end of tail rotor shaft.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 33		
2.	Grease splines of tail rotor shaft for sliding sleeve.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33		
3.	Grease ball bearing of sliding sleeve.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33		
4.	Check ball bearings of sliding sleeve for proper running and absence of play.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33		
5.	Inspect tail rotor blades for impact damage and cracks in surface protection. The cover tape in the nose area does not have to be removed.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 34		
6.	Inspect tail rotor assembly for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33		
7.	Perform tail rotor dynamic balance check.	BO-105 Aircraft Maintenance Manual Ch. 107-3		
8.	Inspect drain hole in tail boom for obstructions.			
9.	Inspect tail rotor gearbox attach fitting in vertical fin for loose rivets and cracks	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 31		
10.	Inspect intermediate gearbox and tail rotor gearbox for security, leaks, condition and corrosion.	BO-105 Aircraft Maintenance Manual Ch. 32		
11.	Inspect, functionally test, clean, and reinstall intermediate gearbox magnetic chip plug.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 32		
12.	Inspect, functionally test, clean, and reinstall tail rotor gearbox magnetic chip plug	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 32		
13.	Inspect tail rotor drive for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 32		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 2 Inspection

Section 2				
#	Item	Reference	Tech	Date
14.	Anti-collision light mounting bracket on vertical fin; remove clamping ring and pull up lamp as far as possible. Inspect both sides of radius area between flange and cylindrical part of bracket for cracks. Discard defective brackets. Inspect clamp for condition and welded joint between lugs for tightening screw and the clamping ring for broken weld spots, reinstall lamp.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 92 Previous phase program		
15.	Inspect long tail rotor drive shaft (without removal) for condition, corrosion, cracks or other damage, check bearings for rough running, radial play, corrosion and rubber bushings for condition. Check tail rotor brackets for condition.	BO-105 Aircraft Maintenance Manual Ch. 32-4 or 32-5.		
16.	Visually inspect support brackets on vertical fin for cracks.	BO-105 Aircraft Maintenance Manual Ch. 32		
17.	Remove tail rotor shaft fairing and small fairing between tail boom and vertical fin and visually inspect upper side of tailboom, in the area fwd. of the vertical fin, for cracks.	BO-105 Aircraft Maintenance Manual Ch. 32		
18.	Check all bolts on tail rotor drive shaft connecting flanges for required torque.	BO-105 Aircraft Maintenance Manual Ch. 32		
19.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 3				
#	Item	Reference	Tech	Date
1.	Check external cargo mirror for condition and security of attachment, if installed.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 837		
2.	Inspect cargo hook system for condition. Electrical and manual release system for operation, if installed.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 822		
3.	Inspect landing gear for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 51		
4.	Ventilate dual torque indication system	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 91		
5.	Check condition and security of maintenance steps and grips if installed.			
6.	If floats are installed inspect for security and condition. Check pressure of bottle.	Air Cruisers Manufactures Manual		
7.	Inspect landing gear for condition.	BO-105 Aircraft Maintenance Manual Ch. 51-2		
8.	Check long range fuel tank for condition. (if tank remains installed)	BO-105 Aircraft Maintenance Manual Ch. 101-6.2 831		
9.	Visually inspect baffle plate, located between oil cooler and fan, and attaching clamps for cracks	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 63		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 2 Inspection

Section 3				
#	Item	Reference	Tech	Date
10.	Inspect cabin ventilation for condition, check for function	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 700		
11.	Inspect landing gear mounting brackets and surrounding fuselage area for condition	BO-105 Aircraft Maintenance Manual Ch. 21-3 Step 10		
12.	Inspect skids, skid protective plates for damage, tighten plates and skid shoes.	BO-105 Aircraft Maintenance Manual Ch. 51.		
13.	Check torque of landing gear screws and bolts, check screws and bolts for secure installation.	BO-105 Aircraft Maintenance Manual Ch. 51.		
14.	Check cross tube bearing bushings for condition and secure installation.	BO-105 Aircraft Maintenance Manual Ch. 51.		
15.	Inspect litter retention system for condition.	BO-105 Aircraft Maintenance Manual Ch. . 101-10.2 821		
16.	Inspect visible electrical lines, connections, cable ducts and fuses for proper condition and secure install.	BO-105 Aircraft Maintenance Manual Ch. 21-3		
17.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 4				
#	Item	Reference	Tech	Date
1.	Inspect chip detector of main transmission for deposits, functionally test, clean and reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
2.	Inspect main rotor system for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13		
3.	Inspect M/R blades for condition. Ensure scarf joints are sealed and blade paint is touched up. Check pendulum absorbers for free rotation. Check oil level or lubricate.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 14		
4.	Inspect flight control components (boosted section of flight controls) located above the hydraulic system including swashplate for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 41		
5.	Inspect swashplate driving link assembly for condition and bearings for play.	BO-105 Aircraft Maintenance Manual Ch. 13-22.		
6.	Visually inspect seals on upper rod ends for condition. The following control rods are affected: a) Vertical control rods below hydraulic unit b) Control rods between hydraulic unit and mixing lever assembly c) Rotating control rods.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 41		
7.	Remove secondary blade bolts, clean, inspect, and apply lubricant, reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13		
8.	Remove locking lever assembly, clean and inspect for condition (crack inspection not required)	BO-105 Aircraft Maintenance Manual Ch. 101-8.2 854		
9.	Inspect main transmission and attached parts for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 11		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 2 Inspection

Section 4				
#	Item	Reference	Tech	Date
10.	Inspect hydraulic system as follows: a) Inspect for general condition b) Check input levers for excessive play c) Check eyebolt bearings for excessive play d) Check piston rod couplings for correct clearance and freedom of axial play. e. Spray coat N ₂ lever with corrosion preventative compound.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 43		
11.	Inspect control rods between mixing lever assembly and swashplate for condition, bearings for excessive play (control rod removed).	BO-105 Aircraft Maintenance Manual Ch. 43		
12.	Inspect mixing lever assembly for condition and bearings for looseness or binding.	BO-105 Aircraft Maintenance Manual Ch. 41-68.		
13.	Check filter contamination indicator (lateral indicator pin configuration)	BO-105 Aircraft Maintenance Manual Ch. 43-14		
14.	Clean transmission oil filter and inspect for contamination	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
15.	Visually inspect area of support tube flange for cracks using a 5X or greater magnifying glass (12 Month requirement of ASB 10-120, incorporated into the MM)	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
16.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 5				
#	Item	Reference	Tech	Date
1.	Check that Registration Certificate, Airworthiness Certificate, Flight Manual and Operations Manual are in their proper place.			
2.	Check weekly status report for any time change components, Service Bulletins, Technical Bulletins, Airworthiness Directives, or special inspections due.			
3.	Inspect aircraft first aid kit and survival kit for proper seal, if broken; check contents.			
4.	Insure placards and decals required by the Rotorcraft Flight Manual Limitations Section for installed equipment are in place and legible. Inspect for external load combination placard.	Flight manual, FAR 133.149		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 2 Inspection

INSPECTION COMPLIANCE RECORD

I certify that I have inspected all items initialed by me in accordance with this Maritime Helicopters, Inc.
Approved Aircraft Inspection Program phase inspection and found them to be in an airworthy condition.

Signature	Certificate Number	Initials	Date

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 3 Inspection

A/C:	Base:
TT Started:	TT Completed:

Phase 3 Inspection

The technician starting this inspection shall accomplish a Daily Airworthiness Check prior to beginning the phase inspection. The technician must also make a logbook entry stating the phase has been started. Enter any discrepancies found during the inspection in the aircraft logbook.

This inspection is to be performed before or when due, as indicated on the "Next phase" block of the aircraft logbook and on the aircraft status report. All technicians performing work must complete the Inspection Compliance Record on the last page prior to beginning work.

Should the technician elect to do part of this inspection, all items in a section started must be completed before further flight. The technician shall initial the appropriate blocks of the Section Completed, fill in "ACTT Started" on this page, sign the last page and insert the form in the aircraft logbook. The technician must also make a logbook entry stating the section(s) he completed

The technician completing the inspection must make a logbook entry stating the inspection is complete, sign the "Inspection Completion Statement", and enter the aircraft time when the next phase inspection is due in the "Next Phase" block of the aircraft logbook.

SECTION COMPLETION CERTIFICATION

I certify that in accordance with this Approved Aircraft Inspection Program, a routine inspection of the aircraft and a detailed inspection of the items listed in the below sections were performed and the aircraft is approved for return to service.

Section Number	Section Completion Certified By	Certificate Number	Date
1A			
1B			
2			
3			
4			
5			

INSPECTION COMPLETION STATEMENT

I certify that in accordance with this Approved Aircraft Inspection Program, all sections of this phase inspection have been completed and the aircraft is approved for return to service.

Signature	Certificate Number	Date	ACTT

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 3 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
1.	Check #1 and #2 generator voltage for proper output. Ensure maximum difference between both generator voltages is within limits	BO-105 Aircraft Maintenance Manual Ch. 101-8.1-92		
2.	Perform oil flow check. A minimum of 16% N-1 using battery power only (no APU power) must be reached. Engine must be warm. Connect a hose to oil sump can outlet. Motor engine to establish oil flow. Once oil is flowing, collect oil and continue to motor for exactly 15 seconds from start of collection. Collect oil during coast down. Max N-1 speed attained: _____ Turbine S/N _____ Total CC _____ If less than 110 cc is collected the strut and oil jet must be cleaned within 25 hours (enter in logbook). A minimum of 90 cc oil is required to release aircraft for return to service.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
3.	Inspect the entire engine for loose or missing bolts, broken or loose connections, security of mounting accessory and broken or missing lock wire. Check accessible areas for obvious damage and evidence of fuel or oil leakage.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
4.	Check mounting and support bolts to be sure they are tight, lock wired and in good condition. Check security of screws and rivets. Remove all foreign material which might be drawn into the compressor inlet.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
5.	Inspect all "B" nuts for application and alignment of torque paint. If missing, loosen "B" nut, retighten, and apply torque paint.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
6.	Check accessible fuel system components, lines, and connections for security, damage or leakage. Accomplish with the boost pump on, if available. Remove, visually inspect and clean if visual condition dictates.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
7.	Inspect the outer combustion case for condition. Inspect the weld joints of and in the brazed screen reinforcement in the armpit area.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
8.	Inspect engine firewalls for general condition, cracks, and loose hardware.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 64		
9.	Check fuel control and power turbine governor linkage for freedom of operation, full travel and proper rigging. Check security of linkage for loose or worn linkage and linkage bolts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
10.	Inspect the compressor scroll for cracks or breaks at the anti-ice air valve and customer bleed port. If cracks or breaks are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 3 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
11.	Check the condition of the bleed valve gasket, without removing bleed valve. Replace gasket if air leaks (blowouts) can be detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
12.	Inspect for discharge air tube inserts that are cocked or backing out of the scroll. If cocked or loose inserts are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
13.	Check compressor discharge air tubes for damage or deterioration.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
14.	Check anti-ice valve for security, worn parts and proper operation. Valve need not be removed or disassembled unless a problem is detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
15.	Inspect compressor mount inserts, bolts and nuts for looseness, fretting or oil leakage. Replace or retighten as required. Check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
16.	Remove, clean and reinstall engine fuel nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
17.	Clean engine burner drain valve. Ensure air frame overboard gang drain is clear.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
18.	Remove, inspect igniter plugs for condition, clean, and reinstall.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
19.	Remove engine chip plugs, inspect for contamination and functionally check chip lights by shorting, clean plug, reinstall and safety.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
20.	Inspect the ignition lead for burning, chafing, or cracking of conduit and loose connectors and broken lock wire.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
21.	Inspect engine accessories, mounting struts, and control linkages for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 65		
22.	Remove and replace filter elements of scavenge oil filters.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 63		
23.	Inspect the turbine support assemblies and engine exhaust ducts for condition of welded joints, for cracks and buckling. Check exhaust duct clamps for proper installation, condition and torque.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour BO-105 Aircraft Maintenance Manual Ch. 101-6.1 61		
24.	Check torque of compressor and turbine mount nuts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
25.	Perform engine compressor wash if environmentally feasible.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
26.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

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Phase 3 Inspection

Section 1B Engine #2				
#	Item	Reference	Tech	Date
1.	Perform oil flow check. A minimum of 16% N-1 using battery power only (no APU power) must be reached. Engine must be warm. Connect a hose to oil sump can outlet. Motor engine to establish oil flow. Once oil is flowing, collect oil and continue to motor for exactly 15 seconds from start of collection. Collect oil during coast down. Max N-1 speed attained: _____ Turbine S/N _____ Total CC _____ If less than 110 cc is collected the strut and oil jet must be cleaned within 25 hours (enter in logbook). A minimum of 90 cc oil is required to release aircraft for return to service.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
2.	Inspect the entire engine for loose or missing bolts, broken or loose connections, security of mounting accessory and broken or missing lock wire. Check accessible areas for obvious damage and evidence of fuel or oil leakage.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
3.	Check mounting and support bolts to be sure they are tight, lock wired and in good condition. Check security of screws and rivets. Remove all foreign material which might be drawn into the compressor inlet.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
4.	Inspect all "B" nuts for application and alignment of torque paint. If missing, loosen "B" nut, retighten, and apply torque paint.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
5.	Check accessible fuel system components, lines, and connections for security, damage or leakage. Accomplish with the boost pump on, if available. Remove, visually inspect and clean if visual condition dictates.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
6.	Inspect the outer combustion case for condition. Inspect the weld joints of and in the brazed screen reinforcement in the armpit area.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
7.	Inspect engine firewalls for general condition, cracks, and loose hardware.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 64		
8.	Check fuel control and power turbine governor linkage for freedom of operation, full travel and proper rigging. Check security of linkage for loose or worn linkage and linkage bolts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
9.	Inspect the compressor scroll for cracks or breaks at the anti-ice air valve and customer bleed port. If cracks or breaks are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
10.	Check the condition of the bleed valve gasket, without removing bleed valve. Replace gasket if air leaks (blowouts) can be detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		

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Phase 3 Inspection

Section 1B Engine #2				
#	Item	Reference	Tech	Date
11.	Inspect for discharge air tube inserts that are cocked or backing out of the scroll. If cocked or loose inserts are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
12.	Check compressor discharge air tubes for damage or deterioration.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
13.	Check anti-ice valve for security, worn parts and proper operation. Valve need not be removed or disassembled unless a problem is detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
14.	Inspect compressor mount inserts, bolts and nuts for looseness, fretting or oil leakage. Replace or retighten as required. Check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
15.	Remove, clean and reinstall engine fuel nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
16.	Clean engine burner drain valve. Ensure air frame overboard gang drain is clear.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
17.	Remove, inspect igniter plugs for condition, clean, and reinstall.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
18.	Remove engine chip plugs, inspect for contamination and functionally check chip lights by shorting, clean plug, reinstall and safety.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
19.	Inspect the ignition lead for burning, chafing, or cracking of conduit and loose connectors and broken lock wire.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
20.	Inspect engine accessories, mounting struts, and control linkages for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 65		
21.	Remove and replace filter elements of scavenge oil filters.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 63		
22.	Inspect the turbine support assemblies and engine exhaust ducts for condition of welded joints, for cracks and buckling. Check exhaust duct clamps for proper installation, condition and torque.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour BO-105 Aircraft Maintenance Manual Ch. 101-6.1 61		
23.	Check torque of compressor and turbine mount nuts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
24.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 2				
#	Item	Reference	Tech	Date
1.	Without disassembly, inspect spherical bearings in fork end of tail rotor shaft.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 33		
2.	Grease splines of tail rotor shaft for sliding sleeve.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33		
3.	Grease ball bearing of sliding sleeve.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33		

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Phase 3 Inspection

Section 2				
#	Item	Reference	Tech	Date
4.	Check ball bearings of sliding sleeve for proper running and absence of play.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33		
5.	Inspect tail rotor blades for impact damage and cracks in surface protection. The cover tape in the nose area does not have to be removed.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 34		
6.	Inspect tail rotor assembly for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33		
7.	Perform tail rotor dynamic balance check.	BO-105 Aircraft Maintenance Manual Ch. 107-3		
8.	Inspect drain hole in tail boom for obstructions.			
9.	Inspect tail rotor gearbox attach fitting in vertical fin for loose rivets and cracks	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 31		
10.	Inspect intermediate gearbox and tail rotor gearbox for security, leaks, condition and corrosion.	BO-105 Aircraft Maintenance Manual Ch. 32		
11.	Inspect, functionally test, clean, and reinstall intermediate gearbox magnetic chip plug.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 32		
12.	Inspect, functionally test, clean, and reinstall tail rotor gearbox magnetic chip plug	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 32		
13.	Inspect tail rotor drive for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 32		
14.	Anti-collision light mounting bracket on vertical fin; remove clamping ring and pull up lamp as far as possible. Inspect both sides of radius area between flange and cylindrical part of bracket for cracks. Discard defective brackets. Inspect clamp for condition and welded joint between lugs for tightening screw and the clamping ring for broken weld spots, reinstall lamp.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 92		
15.	Inspect long tail rotor drive shaft (without removal) for condition, corrosion, cracks or other damage, check bearings for rough running, radial play, corrosion and rubber bushings for condition. Check tail rotor brackets for condition.	BO-105 Aircraft Maintenance Manual Ch. 32-4 or 32-5.		
16.	Control rod in vertical fin: Visual inspect sealing of blind hole in fork end for damage	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 42		
17.	Check connecting bolts on tailboom attachment cone for specified torque value.	BO-105 Aircraft Maintenance Manual Ch. 101		
18.	Remove control rod in the tailboom and inspect chafe protection for condition and grease sliding areas.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 42		
19.	Visually inspect seals on rod end and clevis for damage. Following rods affected: a) Control rod in tailboom b) Control rod in vertical fin (upper clevis)	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 42		
20.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

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Phase 3 Inspection

Section 3				
#	Item	Reference	Tech	Date
1.	Check external cargo mirror for condition and security of attachment, if installed.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 837		
2.	Inspect cargo hook system for condition. Electrical and manual release system for operation, if installed.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 822		
3.	Inspect landing gear for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 51		
4.	Ventilate dual torque indication system	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 91		
5.	Check condition and security of maintenance steps and grips if installed.			
6.	If floats are installed inspect for security and condition. Check pressure of bottle.	Air Cruisers Manufactures Manual		
7.	Inspect landing gear for condition.	BO-105 Aircraft Maintenance Manual Ch. 51-2		
8.	Check long range fuel tank for condition. (if tank remains installed)	BO-105 Aircraft Maintenance Manual Ch. 101-6.2 831		
9.	Visually inspect baffle plate, located between oil cooler and fan, and attaching clamps for cracks	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 63		
10.	Inspect wire strike protection system for condition.	BO-105 Aircraft Maintenance Manual Ch. . 101-10.2 859		
11.	Inspect bleed air/auxiliary heating system for condition.	BO-105 Aircraft Maintenance Manual Ch. 850-4		
12.	With floor panels removed, inspect pressure oil lines and fuel lines in the fuselage for chafe marks, leaks and secure installation.	BO-105 Aircraft Maintenance Manual Ch. 21-3		
13.	With floor panels removed, Inspect control tubes for chafing, condition and excessive wear.	BO-105 Aircraft Maintenance Manual Ch. 21-3		
14.	Inspect vertical control tubes and bellcranks below hydraulic unit in left hand side of fuselage for condition and excessive play.	BO-105 Aircraft Maintenance Manual Ch. 21-3		
15.	Inspect vertical tail rotor control tube and bellcranks in right hand side of fuselage at bulkhead 8 for condition and excessive play.	BO-105 Aircraft Maintenance Manual Ch. 21-3		
16.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 4				
#	Item	Reference	Tech	Date
1.	Inspect chip detector of main transmission for deposits, functionally test, clean and reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
2.	Inspect main rotor system for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13		

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Phase 3 Inspection

Section 4				
#	Item	Reference	Tech	Date
3.	Inspect M/R blades for condition. Ensure scarf joints are sealed and blade paint is touched up. Check pendulum absorbers for free rotation. Check oil level or lubricate.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 14		
4.	Inspect flight control components (boosted section of flight controls) located above the hydraulic system including swashplate for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 41		
5.	Inspect swashplate driving link assembly for condition and bearings for play.	BO-105 Aircraft Maintenance Manual Ch. 13-22.		
6.	Visually inspect seals on upper rod ends for condition. The following control rods are affected: a) Vertical control rods below hydraulic unit b) Control rods between hydraulic unit and mixing lever assembly c) Rotating control rods.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 41		
7.	Remove secondary blade bolts, clean, inspect, and apply lubricant, reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13		
8.	Remove locking lever assembly, clean and inspect for condition (crack inspection not required)	BO-105 Aircraft Maintenance Manual Ch. 101-8.2 854		
9.	Inspect main transmission and attached parts for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 11		
10.	Inspect hydraulic system as follows: a) Inspect for general condition b) Check input levers for excessive play c) Check eyebolt bearings for excessive play d) Check piston rod couplings for correct clearance and freedom of axial play. e) Spray coat N ₂ lever with corrosion preventative compound.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 43		
11.	Inspect control rods between mixing lever assembly and swashplate for condition, bearings for excessive play (control rod removed).	BO-105 Aircraft Maintenance Manual Ch. 43		
12.	Inspect mixing lever assembly for condition and bearings for looseness or binding.	BO-105 Aircraft Maintenance Manual Ch. 41-68.		
13.	Check filter contamination indicator (lateral indicator pin configuration)	BO-105 Aircraft Maintenance Manual Ch. 43-14		
14.	Clean transmission oil filter and inspect for contamination	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
15.	Function test flat springs	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 43		
16.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

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Phase 3 Inspection

Section 5				
#	Item	Reference	Tech	Date
1.	Check that Registration Certificate, Airworthiness Certificate, Flight Manual and Operations Manual are in their proper place.			
2.	Check weekly status report for any time change components, Service Bulletins, Technical Bulletins, Airworthiness Directives, or special inspections due.			
3.	Inspect aircraft first aid kit and survival kit for proper seal, if broken; check contents.			
4.	Insure placards and decals required by the Rotorcraft Flight Manual Limitations Section for installed equipment are in place and legible. Inspect for external load combination placard.	Flight manual, FAR 133.149		

INSPECTION COMPLIANCE RECORD

I certify that I have inspected all items initialed by me in accordance with this Maritime Helicopters, Inc. Approved Aircraft Inspection Program phase inspection and found them to be in an airworthy condition.

Signature	Certificate Number	Initials	Date

Maritime Helicopters Inc.

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Phase 3 Inspection

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Phase 4 Inspection

A/C:	Base:
TT Started:	TT Completed:

Phase 4 Inspection

The technician starting this inspection shall accomplish a Daily Airworthiness Check prior to beginning the phase inspection. The technician must also make a logbook entry stating the phase has been started. Enter any discrepancies found during the inspection in the aircraft logbook.

This inspection is to be performed before or when due, as indicated on the "Next phase" block of the aircraft logbook and on the aircraft status report. All technicians performing work must complete the Inspection Compliance Record on the last page prior to beginning work.

Should the technician elect to do part of this inspection, all items in a section started must be completed before further flight. The technician shall initial the appropriate blocks of the Section Completed, fill in "ACTT Started" on this page, sign the last page and insert the form in the aircraft logbook. The technician must also make a logbook entry stating the section(s) he completed

The technician completing the inspection must make a logbook entry stating the inspection is complete, sign the "Inspection Completion Statement", and enter the aircraft time when the next phase inspection is due in the "Next Phase" block of the aircraft logbook.

SECTION COMPLETION CERTIFICATION

I certify that in accordance with this Approved Aircraft Inspection Program, a routine inspection of the aircraft and a detailed inspection of the items listed in the below sections were performed and the aircraft is approved for return to service.

Section Number	Section Completion Certified By	Certificate Number	Date
1A			
1B			
2			
3			
4			
5			

INSPECTION COMPLETION STATEMENT

I certify that in accordance with this Approved Aircraft Inspection Program, all sections of this phase inspection have been completed and the aircraft is approved for return to service.

Signature	Certificate Number	Date	ACTT

Maritime Helicopters Inc.

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Phase 4 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
1.	Check #1 and #2 generator voltage for proper output. Ensure maximum difference between both generator voltages is within limits	BO-105 Aircraft Maintenance Manual Ch. 101-8.1-92		
2.	Perform oil flow check. A minimum of 16% N-1 using battery power only (no APU power) must be reached. Engine must be warm. Connect a hose to oil sump can outlet. Motor engine to establish oil flow. Once oil is flowing, collect oil and continue to motor for exactly 15 seconds from start of collection. Collect oil during coast down. Max N-1 speed attained: _____ Turbine S/N _____ Total CC _____ If less than 110 cc is collected the strut and oil jet must be cleaned within 25 hours (enter in logbook). A minimum of 90 cc oil is required to release aircraft for return to service.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
3.	Inspect the entire engine for loose or missing bolts, broken or loose connections, security of mounting accessory and broken or missing lock wire. Check accessible areas for obvious damage and evidence of fuel or oil leakage.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
4.	Check mounting and support bolts to be sure they are tight, lock wired and in good condition. Check security of screws and rivets. Remove all foreign material which might be drawn into the compressor inlet.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
5.	Inspect all "B" nuts for application and alignment of torque paint. If missing, loosen "B" nut, retighten, and apply torque paint.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
6.	Check accessible fuel system components, lines, and connections for security, damage or leakage. Accomplish with the boost pump on, if available. Remove, visually inspect and clean if visual condition dictates.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
7.	Inspect the outer combustion case for condition. Inspect the weld joints of and in the brazed screen reinforcement in the armpit area.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
8.	Inspect engine firewalls for general condition, cracks, and loose hardware.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 64		
9.	Check fuel control and power turbine governor linkage for freedom of operation, full travel and proper rigging. Check security of linkage for loose or worn linkage and linkage bolts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
10.	Inspect the compressor scroll for cracks or breaks at the anti-ice air valve and customer bleed port. If cracks or breaks are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		

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Phase 4 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
11.	Check the condition of the bleed valve gasket, without removing bleed valve. Replace gasket if air leaks (blowouts) can be detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
12.	Inspect for discharge air tube inserts that are cocked or backing out of the scroll. If cocked or loose inserts are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
13.	Check compressor discharge air tubes for damage or deterioration.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
14.	Check anti-ice valve for security, worn parts and proper operation. Valve need not be removed or disassembled unless a problem is detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
15.	Inspect compressor mount inserts, bolts and nuts for looseness, fretting or oil leakage. Replace or retighten as required. Check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
16.	Remove, clean and reinstall engine fuel nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
17.	Clean engine burner drain valve. Ensure air frame overboard gang drain is clear.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
18.	Remove, inspect igniter plugs for condition, clean, and reinstall.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
19.	Remove engine chip plugs, inspect for contamination and functionally check chip lights by shorting, clean plug, reinstall and safety.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
20.	Inspect the ignition lead for burning, chafing, or cracking of conduit and loose connectors and broken lock wire.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
21.	Remove, inspect and replace engine fuel filters.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
22.	Remove, inspect and replace airframe fuel filters.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 828		
23.	Do a fuel pump bypass valve operation check when a fuel filter is replaced. NOTE: Applicable to Sundstrand/Pesco and Argo-Tech/TRW manufactured pumps only.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
24.	Check security of engine to transmission drive shaft flange bolts. Inspect Drive shaft for condition.	BO-105 Aircraft Maintenance Manual Ch. 11-53 through 11-56		
25.	Inspect engine accessories and mounting struts for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 61		
26.	Inspect the turbine support assemblies and engine exhaust ducts for condition of welded joints, for cracks and buckling. Check exhaust duct clamps for proper installation, condition and torque.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour BO-105 Aircraft Maintenance Manual Ch. 101-6.1 61		
27.	Check torque of compressor and turbine mount nuts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
28.	Perform engine compressor wash if environmentally feasible.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		

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Phase 4 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
29.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 1B Engine #2				
#	Item	Reference	Tech	Date
1.	Perform oil flow check. A minimum of 16% N-1 using battery power only (no APU power) must be reached. Engine must be warm. Connect a hose to oil sump can outlet. Motor engine to establish oil flow. Once oil is flowing, collect oil and continue to motor for exactly 15 seconds from start of collection. Collect oil during coast down. Max N-1 speed attained: _____ Turbine S/N _____ Total CC _____ If less than 110 cc is collected the strut and oil jet must be cleaned within 25 hours (enter in logbook). A minimum of 90 cc oil is required to release aircraft for return to service.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
2.	Inspect the entire engine for loose or missing bolts, broken or loose connections, security of mounting accessory and broken or missing lock wire. Check accessible areas for obvious damage and evidence of fuel or oil leakage.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
3.	Check mounting and support bolts to be sure they are tight, lock wired and in good condition. Check security of screws and rivets. Remove all foreign material which might be drawn into the compressor inlet.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
4.	Inspect all "B" nuts for application and alignment of torque paint. If missing, loosen "B" nut, retighten, and apply torque paint.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
5.	Check accessible fuel system components, lines, and connections for security, damage or leakage. Accomplish with the boost pump on, if available. Remove, visually inspect and clean if visual condition dictates.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
6.	Inspect the outer combustion case for condition. Inspect the weld joints of and in the brazed screen reinforcement in the armpit area.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
7.	Inspect engine firewalls for general condition, cracks, and loose hardware.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 64		
8.	Check fuel control and power turbine governor linkage for freedom of operation, full travel and proper rigging. Check security of linkage for loose or worn linkage and linkage bolts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		

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Phase 4 Inspection

Section 1B Engine #2				
#	Item	Reference	Tech	Date
9.	Inspect the compressor scroll for cracks or breaks at the anti-ice air valve and customer bleed port. If cracks or breaks are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
10.	Check the condition of the bleed valve gasket, without removing bleed valve. Replace gasket if air leaks (blowouts) can be detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
11.	Inspect for discharge air tube inserts that are cocked or backing out of the scroll. If cocked or loose inserts are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
12.	Check compressor discharge air tubes for damage or deterioration.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
13.	Check anti-ice valve for security, worn parts and proper operation. Valve need not be removed or disassembled unless a problem is detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
14.	Inspect compressor mount inserts, bolts and nuts for looseness, fretting or oil leakage. Replace or retighten as required. Check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
15.	Remove, clean and reinstall engine fuel nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
16.	Clean engine burner drain valve. Ensure air frame overboard gang drain is clear.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
17.	Remove, inspect igniter plugs for condition, clean, and reinstall.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
18.	Remove engine chip plugs, inspect for contamination and functionally check chip lights by shorting, clean plug, reinstall and safety.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
19.	Inspect the ignition lead for burning, chafing, or cracking of conduit and loose connectors and broken lock wire.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
20.	Remove, inspect and replace engine fuel filters.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
21.	Remove, inspect and replace airframe fuel filters.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 828		
22.	Do a fuel pump bypass valve operation check when a fuel filter is replaced. NOTE: Applicable to Sundstrand/Pesco and Argo-Tech/TRW manufactured pumps only.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
23.	Check security of engine to transmission drive shaft flange bolts. Inspect Drive shaft for condition.	BO-105 Aircraft Maintenance Manual Ch. 11-53 through 11-56.		
24.	Inspect engine accessories and mounting struts for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 61		
25.	Inspect the turbine support assemblies and engine exhaust ducts for condition of welded joints, for cracks and buckling. Check exhaust duct clamps for proper installation, condition and torque.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour BO-105 Aircraft Maintenance Manual Ch. 101-6.1 61		

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Phase 4 Inspection

Section 1B Engine #2				
#	Item	Reference	Tech	Date
26.	Check torque of compressor and turbine mount nuts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
27.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 2				
#	Item	Reference	Tech	Date
1.	Without disassembly, inspect spherical bearings in fork end of tail rotor shaft.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 33		
2.	Grease splines of tail rotor shaft for sliding sleeve.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33		
3.	Grease ball bearing of sliding sleeve.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33		
4.	Check ball bearings of sliding sleeve for proper running and absence of play.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33		
5.	Inspect tail rotor blades for impact damage and cracks in surface protection. The cover tape in the nose area does not have to be removed.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 34		
6.	Inspect tail rotor assembly for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33		
7.	Perform tail rotor dynamic balance check.	BO-105 Aircraft Maintenance Manual Ch. 107-3		
8.	Inspect drain hole in tail boom for obstructions.			
9.	Inspect tail rotor gearbox attach fitting in vertical fin for loose rivets and cracks	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 31		
10.	Inspect intermediate gearbox and tail rotor gearbox for security, leaks, condition and corrosion.	BO-105 Aircraft Maintenance Manual Ch. 32		
11.	Inspect, functionally test, clean, and reinstall intermediate gearbox magnetic chip plug.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 32		
12.	Inspect, functionally test, clean, and reinstall tail rotor gearbox magnetic chip plug	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 32		
13.	Inspect tail rotor drive for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 32		
14.	Anti-collision light mounting bracket on vertical fin; remove clamping ring and pull up lamp as far as possible. Inspect both sides of radius area between flange and cylindrical part of bracket for cracks. Discard defective brackets. Inspect clamp for condition and welded joint between lugs for tightening screw and the clamping ring for broken weld spots, reinstall lamp.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 92 Previous phase program		

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Phase 4 Inspection

Section 2				
#	Item	Reference	Tech	Date
15.	Inspect long tail rotor drive shaft (without removal) for condition, corrosion, cracks or other damage, check bearings for rough running, radial play, corrosion and rubber bushings for condition. Check tail rotor brackets for condition.	BO-105 Aircraft Maintenance Manual Ch. 32-4 or 32-5.		
16.	Remove bolt connecting tail rotor shaft to tail rotor head, clean and inspect bolt for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33		
17.	Loosen boots and inspect visible part of tail rotor gearbox output shaft for condition (without removal).			
18.	Check all bolts on tail rotor drive shaft connecting flanges for required torque.	BO-105 Aircraft Maintenance Manual Ch. 32		
19.	Inspect tail rotor drive for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 32		
20.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 3				
#	Item	Reference	Tech	Date
1.	Check external cargo mirror for condition and security of attachment, if installed.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 837		
2.	Inspect cargo hook system for condition. Electrical and manual release system for operation, if installed.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 822		
3.	Inspect landing gear for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 51		
4.	Ventilate dual torque indication system	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 91		
5.	Check condition and security of maintenance steps and grips if installed.			
6.	If floats are installed inspect for security and condition. Check pressure of bottle.	Air Cruisers Manufactures Manual		
7.	Inspect landing gear for condition.	BO-105 Aircraft Maintenance Manual Ch. 51-2		
8.	Check long range fuel tank for condition. (if tank remains installed)	BO-105 Aircraft Maintenance Manual Ch. 101-6.2 831		
9.	Visually inspect baffle plate, located between oil cooler and fan, and attaching clamps for cracks	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 63		
10.	Inspect Skywatch 497 components for security of attachment and condition of wiring.	ICA		
11.	Inspect split bench seat for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 806		
12.	Inspect harnesses, buckles and inertia reels for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 700		

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Phase 4 Inspection

Section 3				
#	Item	Reference	Tech	Date
13.	Drain moisture from pitot/static system.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 91		
14.	Remove fuselage inspection panel under front seats. Inspect airframe area for cracks and general condition. Inspect control rods, wiring, plumbing, and heater installation for general condition.	BO-105 Aircraft Maintenance Manual Ch. 51.		
15.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 4				
#	Item	Reference	Tech	Date
1.	Inspect chip detector of main transmission for deposits, functionally test, clean and reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
2.	Inspect main rotor system for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13		
3.	Inspect M/R blades for condition. Ensure scarf joints are sealed and blade paint is touched up. Check pendulum absorbers for free rotation. Check oil level or lubricate.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 14		
4.	Inspect flight control components (boosted section of flight controls) located above the hydraulic system including swashplate for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 41		
5.	Inspect swashplate driving link assembly for condition and bearings for play.	BO-105 Aircraft Maintenance Manual Ch. 13-22.		
6.	Visually inspect seals on upper rod ends for condition. The following control rods are affected: a) Vertical control rods below hydraulic unit b) Control rods between hydraulic unit and mixing lever assembly c) Rotating control rods.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 41		
7.	Remove secondary blade bolts, clean, inspect, and apply lubricant, reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13		
8.	Remove locking lever assembly, clean and inspect for condition (crack inspection not required)	BO-105 Aircraft Maintenance Manual Ch. 101-8.2 854		
9.	Inspect main transmission and attached parts for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 11		
10.	Inspect hydraulic system as follows: a) Inspect for general condition b) Check input levers for excessive play c) Check eyebolt bearings for excessive play d) Check piston rod couplings for correct clearance and freedom of axial play. e) Spray coat N ₂ lever with corrosion preventative compound.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 43		

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Phase 4 Inspection

Section 4				
#	Item	Reference	Tech	Date
11.	Inspect control rods between mixing lever assembly and swashplate for condition, bearings for excessive play (control rod removed).	BO-105 Aircraft Maintenance Manual Ch. 43		
12.	Inspect mixing lever assembly for condition and bearings for looseness or binding.	BO-105 Aircraft Maintenance Manual Ch. 41-68.		
13.	Check filter contamination indicator (lateral indicator pin configuration)	BO-105 Aircraft Maintenance Manual Ch. 43-14		
14.	Clean transmission oil filter and inspect for contamination	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
15.	Visually inspect swashplate for general condition and visually inspect bearing forks of control ring and bearing ring for cracks using a 6X magnifying glass (300hr requirement ASB 40-103 incorporated into the MM)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 41		
16.	Clean swashplate sliding surface on support tube. Move swashplate to uppermost position to expose sliding surface.	BO-105 Aircraft Maintenance Manual Ch. 41-3		
17.	Lubricate swashplate bearing.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 41		
18.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 5				
#	Item	Reference	Tech	Date
1.	Check that Registration Certificate, Airworthiness Certificate, Flight Manual and Operations Manual are in their proper place.			
2.	Check weekly status report for any time change components, Service Bulletins, Technical Bulletins, Airworthiness Directives, or special inspections due.			
3.	Inspect aircraft first aid kit and survival kit for proper seal, if broken; check contents.			
4.	Insure placards and decals required by the Rotorcraft Flight Manual Limitations Section for installed equipment are in place and legible. Inspect for external load combination placard.	Flight manual, FAR 133.149		

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Phase 4 Inspection

INSPECTION COMPLIANCE RECORD

I certify that I have inspected all items initialed by me in accordance with this Maritime Helicopters, Inc.
Approved Aircraft Inspection Program phase inspection and found them to be in an airworthy condition.

Signature	Certificate Number	Initials	Date

Maritime Helicopters Inc.

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Phase 5 Inspection

A/C:	Base:
TT Started:	TT Completed:

Phase 5 Inspection

The technician starting this inspection shall accomplish a Daily Airworthiness Check prior to beginning the phase inspection. The technician must also make a logbook entry stating the phase has been started. Enter any discrepancies found during the inspection in the aircraft logbook.

This inspection is to be performed before or when due, as indicated on the "Next phase" block of the aircraft logbook and on the aircraft status report. All technicians performing work must complete the Inspection Compliance Record on the last page prior to beginning work.

Should the technician elect to do part of this inspection, all items in a section started must be completed before further flight. The technician shall initial the appropriate blocks of the Section Completed, fill in "ACTT Started" on this page, sign the last page and insert the form in the aircraft logbook. The technician must also make a logbook entry stating the section(s) he completed

The technician completing the inspection must make a logbook entry stating the inspection is complete, sign the "Inspection Completion Statement", and enter the aircraft time when the next phase inspection is due in the "Next Phase" block of the aircraft logbook.

SECTION COMPLETION CERTIFICATION

I certify that in accordance with this Approved Aircraft Inspection Program, a routine inspection of the aircraft and a detailed inspection of the items listed in the below sections were performed and the aircraft is approved for return to service.

Section Number	Section Completion Certified By	Certificate Number	Date
1A			
1B			
2			
3			
4			
5			

INSPECTION COMPLETION STATEMENT

I certify that in accordance with this Approved Aircraft Inspection Program, all sections of this phase inspection have been completed and the aircraft is approved for return to service.

Signature	Certificate Number	Date	ACTT

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Phase 5 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
1.	Check #1 and #2 generator voltage for proper output. Ensure maximum difference between both generator voltages is within limits	BO-105 Aircraft Maintenance Manual Ch. 101-8.1-92		
2.	Perform oil flow check. A minimum of 16% N-1 using battery power only (no APU power) must be reached. Engine must be warm. Connect a hose to oil sump can outlet. Motor engine to establish oil flow. Once oil is flowing, collect oil and continue to motor for exactly 15 seconds from start of collection. Collect oil during coast down. Max N-1 speed attained: _____ Turbine S/N _____ Total CC _____ If less than 110 cc is collected the strut and oil jet must be cleaned within 25 hours (enter in logbook). A minimum of 90 cc oil is required to release aircraft for return to service.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
3.	Inspect the entire engine for loose or missing bolts, broken or loose connections, security of mounting accessory and broken or missing lock wire. Check accessible areas for obvious damage and evidence of fuel or oil leakage.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
4.	Check mounting and support bolts to be sure they are tight, lock wired and in good condition. Check security of screws and rivets. Remove all foreign material which might be drawn into the compressor inlet.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
5.	Inspect all "B" nuts for application and alignment of torque paint. If missing, loosen "B" nut, retighten, and apply torque paint.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
6.	Check accessible fuel system components, lines, and connections for security, damage or leakage. Accomplish with the boost pump on, if available. Remove, visually inspect and clean if visual condition dictates.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
7.	Inspect the outer combustion case for condition. Inspect the weld joints of and in the brazed screen reinforcement in the armpit area.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
8.	Inspect engine firewalls for general condition, cracks, and loose hardware.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 64		
9.	Check fuel control and power turbine governor linkage for freedom of operation, full travel and proper rigging. Check security of linkage for loose or worn linkage and linkage bolts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
10.	Inspect the compressor scroll for cracks or breaks at the anti-ice air valve and customer bleed port. If cracks or breaks are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 5 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
11.	Check the condition of the bleed valve gasket, without removing bleed valve. Replace gasket if air leaks (blowouts) can be detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
12.	Inspect for discharge air tube inserts that are cocked or backing out of the scroll. If cocked or loose inserts are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
13.	Check compressor discharge air tubes for damage or deterioration.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
14.	Check anti-ice valve for security, worn parts and proper operation. Valve need not be removed or disassembled unless a problem is detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
15.	Inspect compressor mount inserts, bolts and nuts for looseness, fretting or oil leakage. Replace or retighten as required. Check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
16.	Remove, clean and reinstall engine fuel nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
17.	Clean engine burner drain valve. Ensure air frame overboard gang drain is clear.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
18.	Remove, inspect igniter plugs for condition, clean, and reinstall.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
19.	Remove engine chip plugs, inspect for contamination and functionally check chip lights by shorting, clean plug, reinstall and safety.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
20.	Inspect the ignition lead for burning, chafing, or cracking of conduit and loose connectors and broken lock wire.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
21.	Remove, clean and inspect engine Pc filter.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
22.	Remove, inspect and clean #1 bearing oil pressure reducer.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
23.	Inspect scavenge oil strut in the power turbine support. Clean carbon deposits from strut.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
24.	Visually inspect external sump. Clean internal carbon deposits and build up from sump or replace if necessary.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
25.	Inspect No. 6 and 7 bearing pressure oil nozzle. Clean internal carbon deposits from nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
26.	Inspect and clean turbine pressure oil check valve. NOTE: Check Valve P/N 23074872 and subsequent part numbers are not applicable to this inspection (these valves are considered "ON CONDITION").	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
27.	Inspect the turbine support assemblies and engine exhaust ducts for condition of welded joints, for cracks and buckling. Check exhaust duct clamps for proper installation, condition and torque.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour BO-105 Aircraft Maintenance Manual Ch. 101-6.1 61		
28.	Check torque of compressor and turbine mount nuts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 5 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
29.	Perform engine compressor wash if environmentally feasible.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
30.	Remove and replace filter elements of scavenge oil filters.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 63		
31.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 1B Engine #2				
#	Item	Reference	Tech	Date
1.	Perform oil flow check. A minimum of 16% N-1 using battery power only (no APU power) must be reached. Engine must be warm. Connect a hose to oil sump can outlet. Motor engine to establish oil flow. Once oil is flowing, collect oil and continue to motor for exactly 15 seconds from start of collection. Collect oil during coast down. Max N-1 speed attained: _____ Turbine S/N _____ Total CC _____ If less than 110 cc is collected the strut and oil jet must be cleaned within 25 hours (enter in logbook). A minimum of 90 cc oil is required to release aircraft for return to service.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
2.	Inspect the entire engine for loose or missing bolts, broken or loose connections, security of mounting accessory and broken or missing lock wire. Check accessible areas for obvious damage and evidence of fuel or oil leakage.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
3.	Check mounting and support bolts to be sure they are tight, lock wired and in good condition. Check security of screws and rivets. Remove all foreign material which might be drawn into the compressor inlet.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
4.	Inspect all "B" nuts for application and alignment of torque paint. If missing, loosen "B" nut, retighten, and apply torque paint.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
5.	Check accessible fuel system components, lines, and connections for security, damage or leakage. Accomplish with the boost pump on, if available. Remove, visually inspect and clean if visual condition dictates.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
6.	Inspect the outer combustion case for condition. Inspect the weld joints of and in the brazed screen reinforcement in the armpit area.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
7.	Inspect engine firewalls for general condition, cracks, and loose hardware.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 64		

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 5 Inspection

Section 1B Engine #2				
#	Item	Reference	Tech	Date
8.	Check fuel control and power turbine governor linkage for freedom of operation, full travel and proper rigging. Check security of linkage for loose or worn linkage and linkage bolts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
9.	Inspect the compressor scroll for cracks or breaks at the anti-ice air valve and customer bleed port. If cracks or breaks are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
10.	Check the condition of the bleed valve gasket, without removing bleed valve. Replace gasket if air leaks (blowouts) can be detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
11.	Inspect for discharge air tube inserts that are cocked or backing out of the scroll. If cocked or loose inserts are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
12.	Check compressor discharge air tubes for damage or deterioration.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
13.	Check anti-ice valve for security, worn parts and proper operation. Valve need not be removed or disassembled unless a problem is detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
14.	Inspect compressor mount inserts, bolts and nuts for looseness, fretting or oil leakage. Replace or retighten as required. Check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
15.	Remove, clean and reinstall engine fuel nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
16.	Clean engine burner drain valve. Ensure air frame overboard gang drain is clear.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
17.	Remove, inspect igniter plugs for condition, clean, and reinstall.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
18.	Remove engine chip plugs, inspect for contamination and functionally check chip lights by shorting, clean plug, reinstall and safety.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
19.	Inspect the ignition lead for burning, chafing, or cracking of conduit and loose connectors and broken lock wire.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
20.	Remove, clean and inspect engine Pc filter.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
21.	Remove, inspect and clean #1 bearing oil pressure reducer.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
22.	Inspect scavenge oil strut in the power turbine support. Clean carbon deposits from strut.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
23.	Visually inspect external sump. Clean internal carbon deposits and build up from sump or replace if necessary.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
24.	Inspect No. 6 and 7 bearing pressure oil nozzle. Clean internal carbon deposits from nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		

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Phase 5 Inspection

Section 1B Engine #2				
#	Item	Reference	Tech	Date
25.	Inspect and clean turbine pressure oil check valve. NOTE: Check Valve P/N 23074872 and subsequent part numbers are not applicable to this inspection (these valves are considered "ON CONDITION").	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour		
26.	Inspect the turbine support assemblies and engine exhaust ducts for condition of welded joints, for cracks and buckling. Check exhaust duct clamps for proper installation, condition and torque.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour BO-105 Aircraft Maintenance Manual Ch. 101-6.1 61		
27.	Check torque of compressor and turbine mount nuts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
28.	Remove and replace filter elements of scavenge oil filters.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 63		
29.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 2				
#	Item	Reference	Tech	Date
1.	Without disassembly, inspect spherical bearings in fork end of tail rotor shaft.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 33		
2.	Grease splines of tail rotor shaft for sliding sleeve.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33		
3.	Grease ball bearing of sliding sleeve.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33		
4.	Check ball bearings of sliding sleeve for proper running and absence of play.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33		
5.	Inspect tail rotor blades for impact damage and cracks in surface protection. The cover tape in the nose area does not have to be removed.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 34		
6.	Inspect tail rotor assembly for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33		
7.	Perform tail rotor dynamic balance check.	BO-105 Aircraft Maintenance Manual Ch. 107-3		
8.	Inspect drain hole in tail boom for obstructions.			
9.	Inspect tail rotor gearbox attach fitting in vertical fin for loose rivets and cracks	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 31		
10.	Inspect intermediate gearbox and tail rotor gearbox for security, leaks, condition and corrosion.	BO-105 Aircraft Maintenance Manual Ch. 32		
11.	Inspect, functionally test, clean, and reinstall intermediate gearbox magnetic chip plug.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 32		
12.	Inspect, functionally test, clean, and reinstall tail rotor gearbox magnetic chip plug	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 32		

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 5 Inspection

Section 2				
#	Item	Reference	Tech	Date
13.	Inspect tail rotor drive for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 32		
14.	Anti-collision light mounting bracket on vertical fin; remove clamping ring and pull up lamp as far as possible. Inspect both sides of radius area between flange and cylindrical part of bracket for cracks. Discard defective brackets. Inspect clamp for condition and welded joint between lugs for tightening screw and the clamping ring for broken weld spots, reinstall lamp.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 92 Previous phase program		
15.	Inspect long tail rotor drive shaft (without removal) for condition, corrosion, cracks or other damage, check bearings for rough running, radial play, corrosion and rubber bushings for condition. Check tail rotor brackets for condition.	BO-105 Aircraft Maintenance Manual Ch. 32-4 or 32-5.		
16.	Visually inspect support brackets on vertical fin for cracks.	BO-105 Aircraft Maintenance Manual Ch. 32		
17.	Remove tail rotor shaft fairing and small fairing between tail boom and vertical fin and visually inspect upper side of tailboom, in the area fwd. of the vertical fin, for cracks.	BO-105 Aircraft Maintenance Manual Ch. 32		
18.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 3				
#	Item	Reference	Tech	Date
1.	Check external cargo mirror for condition and security of attachment, if installed.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 837		
2.	Inspect cargo hook system for condition. Electrical and manual release system for operation, if installed.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 822		
3.	Inspect landing gear for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 51		
4.	Ventilate dual torque indication system	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 91		
5.	Check condition and security of maintenance steps and grips if installed.			
6.	If floats are installed inspect for security and condition. Check pressure of bottle.	Air Cruisers Manufactures Manual		
7.	Inspect landing gear for condition.	BO-105 Aircraft Maintenance Manual Ch. 51-2		
8.	Check long range fuel tank for condition. (if tank remains installed)	BO-105 Aircraft Maintenance Manual Ch. 101-6.2 831		
9.	Visually inspect baffle plate, located between oil cooler and fan, and attaching clamps for cracks	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 63		

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Phase 5 Inspection

Section 3				
#	Item	Reference	Tech	Date
10.	Inspect cabin ventilation for condition, check for function	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 700		
11.	Inspect landing gear mounting brackets and surrounding fuselage area for condition	BO-105 Aircraft Maintenance Manual Ch. 21-3 Step 10		
12.	Inspect skids, skid protective plates for damage, tighten plates and skid shoes.	BO-105 Aircraft Maintenance Manual Ch. 51.		
13.	Check torque of landing gear screws and bolts, check screws and bolts for secure installation.	BO-105 Aircraft Maintenance Manual Ch. 51.		
14.	Check cross tube bearing bushings for condition and secure installation.	BO-105 Aircraft Maintenance Manual Ch. 51.		
15.	Inspect litter retention system for condition.	BO-105 Aircraft Maintenance Manual Ch. . 101-10.2 821		
16.	Inspect visible electrical lines, connections, cable ducts and fuses for proper condition and secure install.	BO-105 Aircraft Maintenance Manual Ch. 21-3		
17.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 4				
#	Item	Reference	Tech	Date
1.	Inspect chip detector of main transmission for deposits, functionally test, clean and reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
2.	Inspect main rotor system for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13		
3.	Inspect M/R blades for condition. Ensure scarf joints are sealed and blade paint is touched up. Check pendulum absorbers for free rotation. Check oil level or lubricate.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 14		
4.	Inspect flight control components (boosted section of flight controls) located above the hydraulic system including swashplate for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 41		
5.	Inspect swashplate driving link assembly for condition and bearings for play.	BO-105 Aircraft Maintenance Manual Ch. 13-22.		
6.	Visually inspect seals on upper rod ends for condition. The following control rods are affected: a) Vertical control rods below hydraulic unit b) Control rods between hydraulic unit and mixing lever assembly c) Rotating control rods.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 41		
7.	Remove secondary blade bolts, clean, inspect, and apply lubricant, reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13		
8.	Remove locking lever assembly, clean and inspect for condition (crack inspection not required)	BO-105 Aircraft Maintenance Manual Ch. 101-8.2 854		
9.	Inspect main transmission and attached parts for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 11		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 5 Inspection

Section 4				
#	Item	Reference	Tech	Date
10.	Inspect hydraulic system as follows: a) Inspect for general condition b) Check input levers for excessive play c) Check eyebolt bearings for excessive play d) Check piston rod couplings for correct clearance and freedom of axial play. e) Spray coat N ₂ lever with corrosion preventative compound.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 43		
11.	Inspect control rods between mixing lever assembly and swashplate for condition, bearings for excessive play (control rod removed).	BO-105 Aircraft Maintenance Manual Ch. 43		
12.	Inspect mixing lever assembly for condition and bearings for looseness or binding.	BO-105 Aircraft Maintenance Manual Ch. 41-68.		
13.	Check filter contamination indicator (lateral indicator pin configuration)	BO-105 Aircraft Maintenance Manual Ch. 43-14		
14.	Clean transmission oil filter and inspect for contamination	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
15.	Visually inspect area of support tube flange for cracks using a 5X or greater magnifying glass (12 Month requirement of ASB 10-120, incorporated into the MM)	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
16.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 5				
#	Item	Reference	Tech	Date
1.	Check that Registration Certificate, Airworthiness Certificate, Flight Manual and Operations Manual are in their proper place.			
2.	Check weekly status report for any time change components, Service Bulletins, Technical Bulletins, Airworthiness Directives, or special inspections due.			
3.	Inspect aircraft first aid kit and survival kit for proper seal, if broken; check contents.			
4.	Insure placards and decals required by the Rotorcraft Flight Manual Limitations Section for installed equipment are in place and legible. Inspect for external load combination placard.	Flight manual, FAR 133.149		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 5 Inspection

INSPECTION COMPLIANCE RECORD

I certify that I have inspected all items initialed by me in accordance with this Maritime Helicopters, Inc. Approved Aircraft Inspection Program phase inspection and found them to be in an airworthy condition.

Signature	Certificate Number	Initials	Date

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 6 Inspection

A/C:	Base:
TT Started:	TT Completed:

Phase 6 Inspection

The technician starting this inspection shall accomplish a Daily Airworthiness Check prior to beginning the phase inspection. The technician must also make a logbook entry stating the phase has been started. Enter any discrepancies found during the inspection in the aircraft logbook.

This inspection is to be performed before or when due, as indicated on the "Next phase" block of the aircraft logbook and on the aircraft status report. All technicians performing work must complete the Inspection Compliance Record on the last page prior to beginning work.

Should the technician elect to do part of this inspection, all items in a section started must be completed before further flight. The technician shall initial the appropriate blocks of the Section Completed, fill in "ACTT Started" on this page, sign the last page and insert the form in the aircraft logbook. The technician must also make a logbook entry stating the section(s) he completed

The technician completing the inspection must make a logbook entry stating the inspection is complete, sign the "Inspection Completion Statement", and enter the aircraft time when the next phase inspection is due in the "Next Phase" block of the aircraft logbook.

SECTION COMPLETION CERTIFICATION

I certify that in accordance with this Approved Aircraft Inspection Program, a routine inspection of the aircraft and a detailed inspection of the items listed in the below sections were performed and the aircraft is approved for return to service.

Section Number	Section Completion Certified By	Certificate Number	Date
1A			
1B			
2			
3			
4			
5			

INSPECTION COMPLETION STATEMENT

I certify that in accordance with this Approved Aircraft Inspection Program, all sections of this phase inspection have been completed and the aircraft is approved for return to service.

Signature	Certificate Number	Date	ACTT

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 6 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
1.	Check #1 and #2 generator voltage for proper output. Ensure maximum difference between both generator voltages is within limits	BO-105 Aircraft Maintenance Manual Ch. 101-8.1-92		
2.	Perform oil flow check. A minimum of 16% N-1 using battery power only (no APU power) must be reached. Engine must be warm. Connect a hose to oil sump can outlet. Motor engine to establish oil flow. Once oil is flowing, collect oil and continue to motor for exactly 15 seconds from start of collection. Collect oil during coast down. Max N-1 speed attained: _____ Turbine S/N _____ Total CC _____ If less than 110 cc is collected the strut and oil jet must be cleaned within 25 hours (enter in logbook). A minimum of 90 cc oil is required to release aircraft for return to service.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
3.	Inspect the entire engine for loose or missing bolts, broken or loose connections, security of mounting accessory and broken or missing lock wire. Check accessible areas for obvious damage and evidence of fuel or oil leakage.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
4.	Check mounting and support bolts to be sure they are tight, lock wired and in good condition. Check security of screws and rivets. Remove all foreign material which might be drawn into the compressor inlet.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
5.	Inspect all "B" nuts for application and alignment of torque paint. If missing, loosen "B" nut, retighten, and apply torque paint.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
6.	Check accessible fuel system components, lines, and connections for security, damage or leakage. Accomplish with the boost pump on, if available. Remove, visually inspect and clean if visual condition dictates.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
7.	Inspect the outer combustion case for condition. Inspect the weld joints of and in the brazed screen reinforcement in the armpit area.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
8.	Inspect engine firewalls for general condition, cracks, and loose hardware.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 64		
9.	Check fuel control and power turbine governor linkage for freedom of operation, full travel and proper rigging. Check security of linkage for loose or worn linkage and linkage bolts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
10.	Inspect the compressor scroll for cracks or breaks at the anti-ice air valve and customer bleed port. If cracks or breaks are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 6 Inspection

Section 1A Engine #1				
#	Item	Reference	Tech	Date
11.	Check the condition of the bleed valve gasket, without removing bleed valve. Replace gasket if air leaks (blowouts) can be detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
12.	Inspect for discharge air tube inserts that are cocked or backing out of the scroll. If cocked or loose inserts are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
13.	Check compressor discharge air tubes for damage or deterioration.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
14.	Check anti-ice valve for security, worn parts and proper operation. Valve need not be removed or disassembled unless a problem is detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
15.	Inspect compressor mount inserts, bolts and nuts for looseness, fretting or oil leakage. Replace or retighten as required. Check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
16.	Remove, clean and reinstall engine fuel nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
17.	Clean engine burner drain valve. Ensure air frame overboard gang drain is clear.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
18.	Remove, inspect igniter plugs for condition, clean, and reinstall.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
19.	Remove engine chip plugs, inspect for contamination and functionally check chip lights by shorting, clean plug, reinstall and safety.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
20.	Inspect the ignition lead for burning, chafing, or cracking of conduit and loose connectors and broken lock wire.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
21.	Inspect engine accessories, mounting struts, and control linkages for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 65		
22.	Inspect the turbine support assemblies and engine exhaust ducts for condition of welded joints, for cracks and buckling. Check exhaust duct clamps for proper installation, condition and torque.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour BO-105 Aircraft Maintenance Manual Ch. 101-6.1 61		
23.	Check torque of compressor and turbine mount nuts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
24.	Perform engine compressor wash if environmentally feasible.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
25.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 6 Inspection

Section 1B Engine #2				
#	Item	Reference	Tech	Date
1.	Perform oil flow check. A minimum of 16% N-1 using battery power only (no APU power) must be reached. Engine must be warm. Connect a hose to oil sump can outlet. Motor engine to establish oil flow. Once oil is flowing, collect oil and continue to motor for exactly 15 seconds from start of collection. Collect oil during coast down. Max N-1 speed attained: _____ Turbine S/N _____ Total CC _____ If less than 110 cc is collected the strut and oil jet must be cleaned within 25 hours (enter in logbook). A minimum of 90 cc oil is required to release aircraft for return to service.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
2.	Inspect the entire engine for loose or missing bolts, broken or loose connections, security of mounting accessory and broken or missing lock wire. Check accessible areas for obvious damage and evidence of fuel or oil leakage.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
3.	Check mounting and support bolts to be sure they are tight, lock wired and in good condition. Check security of screws and rivets. Remove all foreign material which might be drawn into the compressor inlet.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
4.	Inspect all "B" nuts for application and alignment of torque paint. If missing, loosen "B" nut, retighten, and apply torque paint.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
5.	Check accessible fuel system components, lines, and connections for security, damage or leakage. Accomplish with the boost pump on, if available. Remove, visually inspect and clean if visual condition dictates.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
6.	Inspect the outer combustion case for condition. Inspect the weld joints of and in the brazed screen reinforcement in the armpit area.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
7.	Inspect engine firewalls for general condition, cracks, and loose hardware.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 64		
8.	Check fuel control and power turbine governor linkage for freedom of operation, full travel and proper rigging. Check security of linkage for loose or worn linkage and linkage bolts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
9.	Inspect the compressor scroll for cracks or breaks at the anti-ice air valve and customer bleed port. If cracks or breaks are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
10.	Check the condition of the bleed valve gasket, without removing bleed valve. Replace gasket if air leaks (blowouts) can be detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 6 Inspection

Section 1B Engine #2				
#	Item	Reference	Tech	Date
11.	Inspect for discharge air tube inserts that are cocked or backing out of the scroll. If cocked or loose inserts are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
12.	Check compressor discharge air tubes for damage or deterioration.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
13.	Check anti-ice valve for security, worn parts and proper operation. Valve need not be removed or disassembled unless a problem is detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
14.	Inspect compressor mount inserts, bolts and nuts for looseness, fretting or oil leakage. Replace or retighten as required. Check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
15.	Remove, clean and reinstall engine fuel nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
16.	Clean engine burner drain valve. Ensure air frame overboard gang drain is clear.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
17.	Remove, inspect igniter plugs for condition, clean, and reinstall.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
18.	Remove engine chip plugs, inspect for contamination and functionally check chip lights by shorting, clean plug, reinstall and safety.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
19.	Inspect the ignition lead for burning, chafing, or cracking of conduit and loose connectors and broken lock wire.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
20.	Inspect engine accessories, mounting struts, and control linkages for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 65		
21.	Inspect the turbine support assemblies and engine exhaust ducts for condition of welded joints, for cracks and buckling. Check exhaust duct clamps for proper installation, condition and torque.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour BO-105 Aircraft Maintenance Manual Ch. 101-6.1 61		
22.	Check torque of compressor and turbine mount nuts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour		
23.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 2				
#	Item	Reference	Tech	Date
1.	Without disassembly, inspect spherical bearings in fork end of tail rotor shaft.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 33		
2.	Grease splines of tail rotor shaft for sliding sleeve.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33		
3.	Grease ball bearing of sliding sleeve.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33		
4.	Check ball bearings of sliding sleeve for proper running and absence of play.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 6 Inspection

Section 2				
#	Item	Reference	Tech	Date
5.	Inspect tail rotor blades for impact damage and cracks in surface protection. The cover tape in the nose area does not have to be removed.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 34		
6.	Inspect tail rotor assembly for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33		
7.	Perform tail rotor dynamic balance check.	BO-105 Aircraft Maintenance Manual Ch. 107-3		
8.	Inspect drain hole in tail boom for obstructions.			
9.	Inspect tail rotor gearbox attach fitting in vertical fin for loose rivets and cracks	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 31		
10.	Inspect intermediate gearbox and tail rotor gearbox for security, leaks, condition and corrosion.	BO-105 Aircraft Maintenance Manual Ch. 32		
11.	Inspect, functionally test, clean, and reinstall intermediate gearbox magnetic chip plug.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 32		
12.	Inspect, functionally test, clean, and reinstall tail rotor gearbox magnetic chip plug	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 32		
13.	Inspect tail rotor drive for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 32		
14.	Anti-collision light mounting bracket on vertical fin; remove clamping ring and pull up lamp as far as possible. Inspect both sides of radius area between flange and cylindrical part of bracket for cracks. Discard defective brackets. Inspect clamp for condition and welded joint between lugs for tightening screw and the clamping ring for broken weld spots, reinstall lamp.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 92 Previous phase program		
15.	Inspect long tail rotor drive shaft (without removal) for condition, corrosion, cracks or other damage, check bearings for rough running, radial play, corrosion and rubber bushings for condition. Check tail rotor brackets for condition.	BO-105 Aircraft Maintenance Manual Ch. 32-4 or 32-5.		
16.	Control rod in vertical fin: Visual inspect sealing of blind hole in fork end for damage	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 42		
17.	Check connecting bolts on tailboom attachment cone for specified torque value.	BO-105 Aircraft Maintenance Manual Ch. 101		
18.	Remove control rod in the tailboom and inspect chafe protection for condition and grease sliding areas.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 42		
19.	Visually inspect seals on rod end and clevis for damage. Following rods affected: a) Control rod in tailboom b) Control rod in vertical fin (upper clevis)	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 42		
20.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 6 Inspection

Section 3				
#	Item	Reference	Tech	Date
1.	Check external cargo mirror for condition and security of attachment, if installed.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 837		
2.	Inspect cargo hook system for condition. Electrical and manual release system for operation, if installed.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 822		
3.	Inspect landing gear for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 51		
4.	Ventilate dual torque indication system	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 91		
5.	Check condition and security of maintenance steps and grips if installed.			
6.	If floats are installed inspect for security and condition. Check pressure of bottle.	Air Cruisers Manufactures Manual		
7.	Inspect landing gear for condition.	BO-105 Aircraft Maintenance Manual Ch. 51-2		
8.	Check long range fuel tank for condition. (if tank remains installed)	BO-105 Aircraft Maintenance Manual Ch. 101-6.2 831		
9.	Visually inspect baffle plate, located between oil cooler and fan, and attaching clamps for cracks	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 63		
10.	Inspect wire strike protection system for condition.	BO-105 Aircraft Maintenance Manual Ch. . 101-10.2 859		
11.	Inspect bleed air/auxiliary heating system for condition.	BO-105 Aircraft Maintenance Manual Ch. 850-4		
12.	With floor panels removed, inspect pressure oil lines and fuel lines in the fuselage for chafe marks, leaks and secure installation.	BO-105 Aircraft Maintenance Manual Ch. 21-3		
13.	With floor panels removed, Inspect control tubes for chafing, condition and excessive wear.	BO-105 Aircraft Maintenance Manual Ch. 21-3		
14.	Inspect vertical control tubes and bellcranks below hydraulic unit in left hand side of fuselage for condition and excessive play.	BO-105 Aircraft Maintenance Manual Ch. 21-3		
15.	Inspect vertical tail rotor control tube and bellcranks in right hand side of fuselage at bulkhead 8 for condition and excessive play.	BO-105 Aircraft Maintenance Manual Ch. 21-3		
16.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Section 4				
#	Item	Reference	Tech	Date
1.	Inspect chip detector of main transmission for deposits, functionally test, clean and reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
2.	Inspect main rotor system for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13		

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 6 Inspection

Section 4				
#	Item	Reference	Tech	Date
3.	Inspect M/R blades for condition. Ensure scarf joints are sealed and blade paint is touched up. Check pendulum absorbers for free rotation. Check oil level or lubricate.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 14		
4.	Inspect flight control components (boosted section of flight controls) located above the hydraulic system including swashplate for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 41		
5.	Inspect swashplate driving link assembly for condition and bearings for play.	BO-105 Aircraft Maintenance Manual Ch. 13-22.		
6.	Visually inspect seals on upper rod ends for condition. The following control rods are affected: a) Vertical control rods below hydraulic unit b) Control rods between hydraulic unit and mixing lever assembly c) Rotating control rods.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 41		
7.	Remove secondary blade bolts, clean, inspect, and apply lubricant, reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13		
8.	Remove locking lever assembly, clean and inspect for condition (crack inspection not required)	BO-105 Aircraft Maintenance Manual Ch. 101-8.2 854		
9.	Inspect main transmission and attached parts for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 11		
10.	Inspect hydraulic system as follows: a) Inspect for general condition b) Check input levers for excessive play c) Check eyebolt bearings for excessive play d) Check piston rod couplings for correct clearance and freedom of axial play. e) Spray coat N ₂ lever with corrosion preventative compound.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 43		
11.	Inspect control rods between mixing lever assembly and swashplate for condition, bearings for excessive play (control rod removed).	BO-105 Aircraft Maintenance Manual Ch. 43		
12.	Inspect mixing lever assembly for condition and bearings for looseness or binding.	BO-105 Aircraft Maintenance Manual Ch. 41-68.		
13.	Check filter contamination indicator (lateral indicator pin configuration)	BO-105 Aircraft Maintenance Manual Ch. 43-14		
14.	Clean transmission oil filter and inspect for contamination	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
15.	Visually inspect area of support tube flange for cracks using a 5X or greater magnifying glass (12 Month requirement of ASB 10-120, incorporated into the MM)	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11		
16.	Function test flat springs	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 43		
17.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.			

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 6 Inspection

Section 5				
#	Item	Reference	Tech	Date
1.	Check that Registration Certificate, Airworthiness Certificate, Flight Manual and Operations Manual are in their proper place.			
2.	Check weekly status report for any time change components, Service Bulletins, Technical Bulletins, Airworthiness Directives, or special inspections due.			
3.	Inspect aircraft first aid kit and survival kit for proper seal, if broken; check contents.			
4.	Insure placards and decals required by the Rotorcraft Flight Manual Limitations Section for installed equipment are in place and legible. Inspect for external load combination placard.	Flight manual, FAR 133.149		

INSPECTION COMPLIANCE RECORD

I certify that I have inspected all items initialed by me in accordance with this Maritime Helicopters, Inc. Approved Aircraft Inspection Program phase inspection and found them to be in an airworthy condition.

Signature	Certificate Number	Initials	Date

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Phase 6 Inspection

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Maritime Helicopters Inc.**Eurocopter BO 105 AAIP MTL Schedule & Inspections****600Hr/4Year Inspection**

A/C:	Base:
TT Started:	TT Completed:

600 Hr/4 Year Inspection

The technician starting this inspection shall accomplish a Daily Airworthiness Check and 10 day PMI. The technician must also make a logbook entry stating this inspection has been started. Enter any discrepancies found during the inspection in the aircraft logbook. All technicians performing work must complete the Inspection Compliance Record on the last page prior to beginning work. Should the technician elect to do part of this inspection, all items in a section started must be completed before further flight. The technician shall initial the appropriate blocks of the Section Completed, fill in "ACTT Started" on this page, sign the last page and insert the form in the aircraft logbook. The technician must also make a logbook entry stating the section(s) he completed. The technician completing the inspection must make a logbook entry stating the inspection is complete and sign the "Inspection Completion Statement."

SECTION COMPLETION CERTIFICATION

I certify that in accordance with this Approved Aircraft Inspection Program, a routine inspection of the aircraft and a detailed inspection of the items listed in the below sections were performed and the aircraft is approved for return to service.

Section Number	Section Completion Certified By	Certificate Number	Date
General			
11			
12			
13			
21			
33			
41			
43			
51			
61			
62			
63			

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

600Hr/4Year Inspection

General					
#	Item	Reference	Tech	Insp	Date
1.	Remove all fuselage and tailboom access panels, removable floor panels, cowling, and fairings that are required to carry out the inspection.	N/A			

11 Main Transmission					
#	Item	Reference	Tech	Insp	Date
1.	Remove #1 input shaft and inspect for condition, reinstall	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 11		SCC/ POC	
2.	Remove #2 input shaft and inspect for condition, reinstall	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 11		SCC/ POC	
3.	Remove freewheel unit #1 and inspect for condition, reinstall	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 11		SCC/ POC/ Leak Check	
4.	Remove freewheel unit #2 and inspect for condition, reinstall	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 11		SCC/ POC/ Leak Check	
5.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

12 Rotor Brake System					
#	Item	Reference	Tech	Insp	Date
1.	Inspect rotor brake system for condition	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 12		SCC/ Leak Check	
2.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

13 Main Rotor System					
#	Item	Reference	Tech	Insp	Date
1.	Remove main rotor blades and inspect for condition. Inspect blade root fitting area for cracks	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13		SCC/ POC	
2.	Remove primary and secondary bolts, clean and inspect for condition	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13		SCC/ POC	
3.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

600Hr/4Year Inspection

21 Fuselage					
#	Item	Reference	Tech	Insp	Date
1.	Inspect fuselage for general condition.	BO-105 Airframe Maintenance Manual Ch. 101-9.1 21			
2.	Inspect the 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 50 hrs. Repair any cracks in the upper area of frames 8 and 10 and lower area of frames 7 and 8 within the next 600 hrs. Check for crack propagation every 200 hrs. Repair cracks which show propagation within the next 50 hrs.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 21			
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	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 21			
4.	Inspect tail boom assembly for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 31			
5.	Ensure drain holes are not obstructed.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 21			
6.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

33 Tail Rotor					
#	Item	Reference	Tech	Insp	Date
1.	Remove bellcrank assembly and inspect for condition	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33			
2.	Inspect balance weight and control lever for condition	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33 ASB 105-30-116			
3.	Remove the tail rotor blades. Inspect erosion protection for deboning. 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.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 34			
4.	Remove bolts connecting laminated strap pack to blade mounting forks, and inspect for condition	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 33			
5.	Measure play between blade mounting fork and inner sleeve	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 33			
6.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

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41 Main Rotor Controls					
#	Item	Reference	Tech	Insp	Date
1.	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 assembly • lower and upper bolts of the 2 control rods between mixing lever assembly and swash plate • lower and upper bolts of the 4 rotating control rods	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 41			
2.	Remove, disassemble control rods and inspect for condition. The following control rods are affected: • control rods between hydraulic unit and mixing lever assembly (3 off) • rotating control rods (4 off)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 41			
3.	Remove, disassemble and inspect control rods for Condition.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 43			
4.	Check swashplate bearing for proper running.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 43			
5.	Remove compression springs of longitudinal and lateral trimmers, clean and inspect for condition. Lubricate spring case	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 41			
6.	Check rigging of collective control forces	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 41			
7.	Inspect tail rotor controls for condition	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 42			
8.	Applicable to collective pitch shaft without bonded brake pads: Inspect pitch shaft for condition	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 41			
9.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

43 Hydraulic System					
#	Item	Reference	Tech	Insp	Date
1.	Inspect switchover control linkage for play	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 43			
2.	Functionally test hydraulic system	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 43			
3.	Inspect flat springs of hydraulic system II for correct functioning	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 43			
4.	Grease the splines of the hydraulic pump drive shaft	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 43			
5.	Change hydraulic fluid	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 43			

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43 Hydraulic System					
#	Item	Reference	Tech	Insp	Date
6.	Change hydraulic filter elements	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 43			
7.	Bushings P/N 105-45511 only. Remove hydraulic unit and inspect guide bushings of couplings for play. Distinguishing feature: These bushings can be rotated in installed position.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 43			
8.	Inspect system 1 selector valve for corrosion	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 43		SCC/POC Leak Check	
9.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

51 Landing Gear					
#	Item	Reference	Tech	Insp	Date
1.	Inspect the internal cross tubes for corrosion	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 51		SCC	
2.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

61 Engine					
#	Item	Reference	Tech	Insp	Date
1.	Remove anti-icing valve actuators and inspect mounting brackets for condition	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 61		SCC	
2.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

62 Fuel System					
#	Item	Reference	Tech	Insp	Date
1.	Check fuel differential pressure switch for function	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 62		SCC	
2.	Perform functional test and leakage test of fuel shutoff valves	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 62		SCC	
3.	Inspect fuel lines in the engine compartment for condition	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 62			
4.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

63 Lubrication System					
#	Item	Reference	Tech	Insp	Date
1.	Inspect lubrication system for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 63		SCC	
2.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

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600Hr/4Year Inspection

INSPECTION COMPLIANCE RECORD

I certify that I have inspected all items initialed by me in accordance with this Maritime Helicopters, Inc. Approved Aircraft Inspection Program 600 hour/4 year inspection and found them to be in an airworthy condition.

Signature	Certificate Number	Initials	Date

INSPECTION COMPLETION CERTIFICATE

I certify that this aircraft has been inspected in accordance with this inspection form and was determined to be in an airworthy condition.

Signature	Certificate Number	Date	ACTT

Maritime Helicopters Inc.

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2400 Hour Inspection

A/C:	Base:
TT Started:	TT Completed:

2400 Hr Inspection

The technician starting this inspection shall accomplish a Daily Airworthiness Check and 10 day PMI. The technician must also make a logbook entry stating this inspection has been started. Enter any discrepancies found during the inspection in the aircraft logbook. All technicians performing work must complete the Inspection Compliance Record on the last page prior to beginning work. Should the technician elect to do part of this inspection, all items in a section started must be completed before further flight. The technician shall initial the appropriate blocks of the Section Completed, fill in "ACTT Started" on this page, sign the last page and insert the form in the aircraft logbook. The technician must also make a logbook entry stating the section(s) he completed. The technician completing the inspection must make a logbook entry stating the inspection is complete and sign the "Inspection Completion Statement."

SECTION COMPLETION CERTIFICATION

I certify that in accordance with this Approved Aircraft Inspection Program, a routine inspection of the aircraft and a detailed inspection of the items listed in the below sections were performed and the aircraft is approved for return to service.

Section Number	Section Completion Certified By	Certificate Number	Date
General			
11			
13			
21			
31			
41			
43			

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2400 Hour Inspection

General					
#	Item	Reference	Tech	Insp	Date
1.	Remove all fuselage and tailboom access panels, removable floor panels, cowling, and fairings that are required to carry out the inspection. Inspect removed cowlings for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 22			
2.	Comply with 600hr inspection.				

11 Main Transmission					
#	Item	Reference	Tech	Insp	Date
1.	Inspect transmission strut spherical bearings at deck for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 21-3.6		SCC	
2.	Remove transmission mounting struts and inspect for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 11		SCC	
3.	Remove rotor tach transmitter and lubricate splines	BO-105 Aircraft Maintenance Manual Ch. 11-37		SCC/ POC	
4.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

13 Main Rotor System					
#	Item	Reference	Tech	Insp	Date
1.	Remove quadruple nuts and inspect for cracks	BO-105 REM 106		SCC/ POC	
2.	Inspect main rotor system for condition. Change oil in main rotor head	BO-105 Aircraft Maintenance Manual Ch. 12-3		SCC/ Leak Check	
3.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

21 Fuselage					
#	Item	Reference	Tech	Insp	Date
1.	Inspect fuselage for condition	BO-105 Airframe Maintenance Manual Ch. 101-9.1 21			
2.	Visually inspect frame 2L of tail boom (fuselage side) for cracks	BO-105 Airframe Maintenance Manual Ch. 101-10.1 21			
3.	Visually inspect connecting flange of tail boom (fuselage side) and adjacent fuselage areas for condition and cracks, using a magnifying glass	BO-105 Airframe Maintenance Manual Ch. 101-10.1 21			
4.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

31 Tailboom					
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Maritime Helicopters Inc.

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2400 Hour Inspection

#	Item	Reference	Tech	Insp	Date
1.	Remove and inspect tailboom, reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 31		SCC/ POC	
2.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

33 Tail Rotor					
#	Item	Reference	Tech	Insp	Date
1.	Inspect tail rotor shaft for play	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 33		SCC/ POC	
2.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

34 Tail Rotor Blade					
#	Item	Reference	Tech	Insp	Date
1.	Remove tail rotor blade and inspect for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 34		SCC/ POC	
2.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

41 Main Rotor Controls					
#	Item	Reference	Tech	Insp	Date
1.	Inspect all flight control components for condition	BO-105 Aircraft Maintenance Manual Ch. 101-9.1 41		SCC/ POC	
2.	Inspect swash plate for condition	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 41		SCC	
3.	Remove, disassemble mixing lever assembly and inspect for condition	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 41		SCC/ POC	
4.	Remove control rods between mixing lever assembly and swash plate and inspect for condition	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 41		SCC/ POC	
5.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

43 Hydraulic System					
#	Item	Reference	Tech	Insp	Date
1.	Replace Flat Springs	BO-105 Aircraft Maintenance Manual Ch. 43-56-58		SCC/ POC	
2.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

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2400 Hour Inspection

61 Engine					
#	Item	Reference	Tech	Insp	Date
1.	Remove engine mounts and inspect for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 61		SCC/ POC	
2.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.				

INSPECTION COMPLIANCE RECORD

I certify that I have inspected all items initialed by me in accordance with this Maritime Helicopters, Inc. Approved Aircraft Inspection Program 2400 hour inspection and found them to be in an airworthy condition.

Signature	Certificate Number	Initials	Date

INSPECTION COMPLETION CERTIFICATE

I certify that this aircraft has been inspected in accordance with this inspection form and was determined to be in an airworthy condition.

Signature	Certificate Number	Date	ACTT

Maritime Helicopters Inc.

Eurocopter BO 105 AAIP MTL Schedule & Inspections

Starter/Generator Inspection/Brush Change Checklist

S/G TT:	S/G S/N:
S/G TSO:	Date:

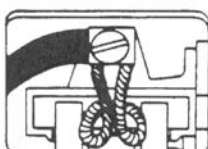
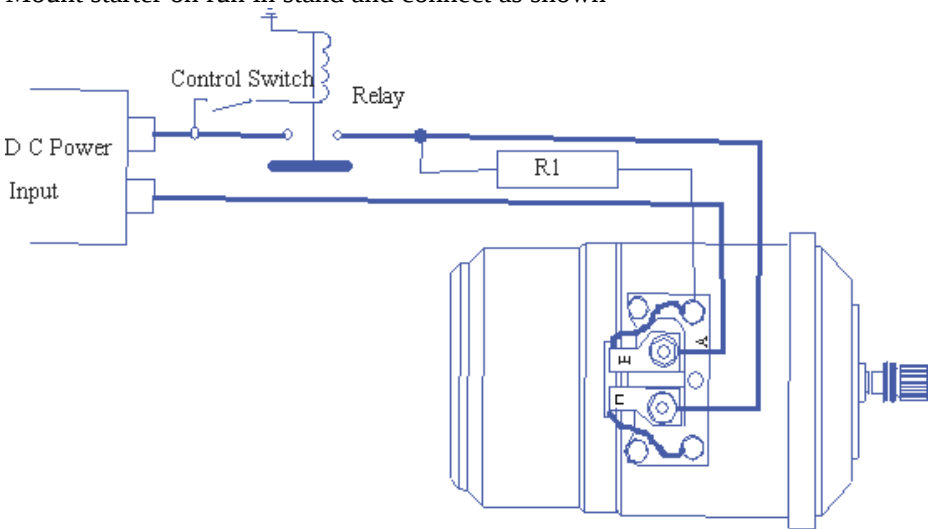
Starter/Generator Inspection

#	Procedure	Tech
1.	Remove starter generator from aircraft in accordance with maintenance manual.	
2.	Remove brush inspection cover.	
3.	Use a low (40 PSI) air pressure to blow as much carbon and copper dust as possible out of the armature and stator windings. Start first at the drive end of the unit. Continue by blowing out the dust in the brush holder and commutator area, being careful not to direct the air jet at the bearing in order to avoid forcing dirt into the bearing.	
4.	Check insulation resistance with an ohmmeter between terminal "B" (center terminal) and the generator frame. Minimum resistance should be 10,000 ohms. If it is less, the generator should be sent in for repair.	
5.	Using a clean cloth moistened with solvent, thoroughly clean exterior of unit. Wipe with a clean cloth. Check for oil and/or other deposits that may have infiltrated into the unit and remove as much as possible.	
6.	Make certain that there is no foreign matter blocking the air intake or exhaust screens.	
7.	This step is for brush inspection only. Inspect brushes as follows:	
	a) Brush leads are flexible and have bright appearance	
	b) Brushes have more than 1/2 life remaining.	
	c) Brushes are properly seated (100% in direction of rotation, minimum 75% axially)	
8.	Note: steps 8-11 for brush replacement only. Change Brushes as follows:	
	Remove the screws securing the brush leads to the brush holder. With a stiff wire hook, lift brush springs and remove brushes.	
	Inspect bearings while brushes are removed. Rotate armature with fingers to obtain feel of bearings. If rotation is rough or bearings sound dry, return starter for repair.	
	Check for loose or damaged brush holders	
	Inspect commutator for burnished appearance with light filming.	
	Inspect damper assembly for looseness or excessive wear.	
	Inspect drive shaft for excessive wear or damage. Replace "O" ring.	

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Starter/Generator Inspection/Brush Change Checklist

#	Procedure	Tech
	Visually inspect fan for bent or cracked blades and for looseness.	
	Inspect fan cover for looseness, dents, or other damage.	
9.	Install new brushes with the leads and top bevel as shown in the illustration below: CORRECT  LAY BRUSH LEADS OVER BRUSH SPRING CLIPS INCORRECT  	
10.	Mount starter on run in stand and connect as shown  - Connect Positive lead to Terminal C on Starter Generator - Connect Negative lead to Terminal E on Starter Generator - Connect Resistor Pack to small Terminal A on Starter Generator - Connect power supply to Run-In Stand. - Start generator motor by turning switch to "ON" position	

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Starter/Generator Inspection/Brush Change Checklist

#	Procedure	Tech
11.	Run in brushes on test stand per manufacturer's instructions. Verify that brushes are properly seated as indicated in the illustration below: NEW BRUSH SATISFACTORILY SEATED BRUSHES UNSATISFACTORILY SEATED BRUSHES LEGEND NON SEATED AREAS SEATED AREAS	
12.	Replace the brush cover, making sure it is seated in the housing recess and that the exhaust air holes, (if provided), are located adjacent to the terminal block.	
13.	Complete all necessary paperwork and return Starter Generator to Parts Department or reinstall in aircraft.	

INSPECTION COMPLIANCE RECORD

I certify that I have inspected all items initialed by me in accordance with the Maritime Helicopters, Inc. Approved Aircraft Inspection Program and found to be in airworthy condition, except as noted in the aircraft logbook.

Tech	Signature	Certificate Number	Date

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Master Documents

Section 4.0 Master lists

4.01 Daily Master List

General		
#	Item	Reference
1.	Review aircraft computer status sheet, Deferred/NEF/MEL list, and logbook ladder for upcoming maintenance and/or inspection requirements.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
Fuselage Right Side		
#	Item	Reference
1.	Check fuselage right side for general condition.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
2.	Check cabin windows for damage and cleanliness.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
3.	Check all doors for damage, function, and that the jettison handles are secured.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
4.	Check static port, pitot tube, drain ports and vents for damage and free of obstructions.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
5.	Check landing gear and steps for damage and general condition.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
6.	Check engine oil tanks for security of mounting, evidence of leaks, filler caps secured and proper oil level. Inspect NiCad oil filters for bypass indication.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
7.	Check oil coolers for general condition and leaks.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
8.	Check transmission for damage and evidence of leakage, proper oil level and security of attachment. Check visible portion of transmission struts for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
9.	Check transmission compartment for FOD. Remove and replace cowling as necessary to inspect and/or clean area.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
10.	Check rotor brake oil reservoir for proper oil level and filler cap secured. Check brake pads for freedom of movement by hand.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
11.	Check engine air intakes for damage, dirt and FOD, free of ice/snow. Turn compressor by hand.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
12.	Turn main drive shaft by hand and ensure freewheeling clutch operation. Check drive shaft for condition.	Requirement based on previous experience

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13.	Check engine compartment ventilation air intake for obstructions.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
14.	Check engine for damage, security of mounting, fuel-oil-air lines, manifolds and wiring for security and chafing.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
15.	Check engine compartment for general condition, fuel and oil leaks. Check exhaust pipes for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
16.	Check N1 and N2 governors and connections for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
17.	Check starter for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
18.	Check battery for damage, electrolyte seepage, security of mounting and battery vents clear.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
19.	Check right side of fuselage for damage.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
20.	Check clam shell doors for damage and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
21.	Check spoiler for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
Tailboom		
#	Item	Reference
1.	Check right side of tail boom for damage. Check security of VOR blade antenna.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
2.	Check right horizontal and vertical stabilizer and position light for damage and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
3.	Check vertical fin, tail and strobe light, for damage and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
4.	Check tail rotor transmission oil level, security and evidence of leakage.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
5.	Check tail rotor hub and blades for condition and damage. Check fork bearings for excessive play.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
6.	Check vertical fin cowling for security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
7.	Check intermediate gearbox oil level, security and evidence of leakage	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
8.	Check tail skid for damage.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
9.	Check left horizontal and vertical stabilizer and position light for damage and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
10.	Check left side of tail boom for damage. Check security of VOR blade antenna	BO-105 Aircraft Maintenance Manual Ch. 101-4.1

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11.	Check drain ports for obstructions.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
Fuselage Left Side		
#	Item	Reference
1.	Check fuel cap closed and secure.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
2.	Check fuselage left side for general condition.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
3.	Check static port, pitot tube, drain ports and vents for damage and free of obstructions.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
4.	Check engine air intakes for damage, dirt and FOD, free of ice/snow. Turn compressor by hand.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
5.	Turn main drive shaft by hand and ensure freewheeling clutch operation. Check driveshaft for condition.	Requirement based on previous experience
6.	Check engine compartment ventilation air intake for obstructions.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
7.	Check engine for damage, security of mounting, fuel-oil-air lines, manifolds and wiring for security and chafing.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
8.	Check engine compartment for general condition, fuel and oil leaks. Check exhaust pipes for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
9.	Check N1 and N2 governors and connections for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
10.	Check starter for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
11.	Check hydraulic and system for leakage.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
12.	Icing conditions, check area between control levers of hydraulic system II and compartment floor, remove any ice with warm air or ethylene glycol. Fill control rod boots with ethylene glycol to prevent ice buildup.	Requirement based on previous experience
13.	Hydraulic filter clogging indicator pin (four), check that pins are in.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
14.	Check hydraulic fluid reservoirs for condition, security and proper fluid level.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
15.	Ensure service fitting caps are installed	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
16.	Check selector valves are in the upper position, system I.	Requirement based on previous experience
17.	Check hydraulic compartment for foreign matter.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1

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18.	Check transmission for condition, security of mounting and evidence of leakage.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
19.	Check main rotor head oil level.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
20.	Check main rotor blades for general condition and FOD.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
21.	Grease pendulum absorbers. Check for rough bearings.	BO-105 Aircraft Maintenance Manual Ch. 101-4.2 844
22.	Check main rotor head drive link assembly and mixing lever assembly for general condition.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
23.	Check rotating control rods for general condition and freedom of movement. Comply with AD 87-26-02 R1. Ensure sign off of AD in logbook.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
24.	Check main rotor blade bolts for security	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
25.	Inspect main rotor blade fold bolt locking lever and pin for proper installation and safety.	BO-105 Aircraft Maintenance Manual Ch. 101-4.2 854
26.	Check swashplate and boot for damage and general condition.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
27.	Icing conditions turn main rotor by hand, normal direction of rotation, and check for oil cooler blower freeze up. Rotate rotor backward and check for turbine freeze up.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
28.	Check air intake is damage free. Clear all ice/snow off cabin roof.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
29.	Check landing gear and steps for damage and general condition.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
30.	Check cabin windows for damage and cleanliness.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
31.	Check all doors for damage, function, and that the jettison handles are secured.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
32.	Inspect fuselage bottom for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
Nose Area		
#	Item	Reference
1.	Check nose compartment, ensure door closed and secure after inspection.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
2.	Check cockpit air intake screen clear (winter operations blocked).	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
3.	Inspect cargo mirror for condition and security	BO-105 Aircraft Maintenance Manual Ch. 101-4.2 837
4.	Check belly strobe for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1

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5.	Check landing light for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
Cockpit/Cabin		
#	Item	Reference
1.	Check all switches and circuit breakers are positioned as required.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
2.	Battery switch ON: a) Ensure adequate battery voltage. b) Check pitot heat for operation. c) Check position lights for operation. d) Check strobe lights for operation. e) Check landing light for operation. f) Check dome and instruments for operation. g) Function check fuel filter light. h) Collect fuel sample from each filter and each tank. i) Electrical switches OFF. j) Disconnect battery.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
3.	Inspect seats and seat belts for condition and attachment. Function check seat belt inertia reels.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
4.	Inspect copilots collective and cyclic sticks are secured with safety wire.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
5.	Inspect placards and decals for legibility and condition.	Requirement based on previous experience
6.	Inspect cabin fire extinguisher for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
7.	Check that passenger briefing cards are in the aircraft.	Requirement based on previous experience
Final		
#	Item	Reference
1.	Inspect condition and security of all cowling and access covers.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
2.	Check aircraft documents for proper entries	Requirement based on previous experience

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Eurocopter BO 105 AAIP MTL Schedule & Inspections

Master Documents

4.02 10 Day PMI Master List

#	DESCRIPTION	
1.	Perform a complete daily service check.	
2.	Inspect the interior of passenger and pilot compartments for condition of interior trim panels and security of attachment.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
3.	Inspect instruments for condition, proper range markings and cleanliness.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
4.	Inspect aircraft flashlight for operation.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
5.	Inspect life rafts and life jackets for general condition; insure that required inspection date has not been exceeded. Check the CO ² bottles are installed in life jackets and that they are in good condition.	ICA
6.	Inspect cabin doors and hinges for wear and security; door seal condition; windows for condition and latches for operation.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
7.	Inspect battery compartment for condition, battery and wiring for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
8.	Inspect avionics bay for security of equipment.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
9.	Inspect antennas and OAT probe for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
10.	Inspect landing gear for obvious damage, cross tubes for excessive deflection, skid tubes and shoes for security of attachment.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
11.	With transmission cowls removed, inspect and clean swashplate support tube. If blade tape is to be replaced, ensure tape does not restrict sliding portion of swashplate.	
12.	Wash main rotor hub and blades with mild solution of detergent soap. Rinse with fresh water and wipe dry with clean cloth. Paint eroded areas of blades. Replace spare joint protection rubber as needed.	
13.	Check condition of polyurethane erosion protection tape (PUR) on main rotor blades and replace as needed.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
14.	Inspect transmission struts for condition and security.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
15.	Remove engine cowls and inspect for condition.	
16.	Inspect #1 and #2 engines for loose bolts, hose connections, security of accessories and obvious damage. Inspect ignition leads and electrical harness for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
17.	Inspect #1 and #2 engine motor mounts for damage, corrosion and security.	

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#	DESCRIPTION	
18.	Inspect #1 and #2 starter generators for condition of leads and attachment clamps for security.	
19.	Inspect #1 and #2 engine compartment ventilation ducts for condition and security.	
20.	Inspect #1 and #2 compressor inlet guide vanes and visible blades for FOD. Inspect compressor liner at inlet. Compressor halves due replacement if worn through liner.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
21.	Inspect #1 and #2 turbine support assemblies, outer combustion case and engine exhaust ducts for condition of welded joints for cracks and buckling and condition of reinforcement in armpit areas.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
22.	Inspect #1 and #2 engine exhaust clamps for cracks, particularly close to "T" bolt loop.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
23.	Inspect rotor brake disk for deformation and pucks for wear.	
24.	Operational check of fuel boost pumps. Supply tank pumps verify fuel pressure. Main tank pumps verify sound of fuel transferring to supply tank.	BO-105 Aircraft Maintenance Manual Ch. 101-4.1
25.	Inspect tail rotor drive shaft for condition and security. Check hanger bearings for wear. Check laminated couplings for condition.	
26.	Reinstall removed cowlings	
27.	Check front of logbook for MEL, NEF, or deferred items. Ensure all open items are being addressed.	
28.	Check weekly Maintenance Report for items coming due.	
29.	Make a logbook entry stating that the Ten (10) Day Preventive Maintenance Inspection has been completed.	

4.03 Phase Master List

Section 1			
#	Item	Reference	Phase
1.	Check #1 and #2 generator voltage for proper output. Ensure maximum difference between both generator voltages is within limits	BO-105 Aircraft Maintenance Manual Ch. 101-8.1-92	1,2,3,4,5,6

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Section 1			
#	Item	Reference	Phase
2.	Perform oil flow check. A minimum of 16% N-1 using battery power only (no APU power) must be reached. Engine must be warm. Connect a hose to oil sump can outlet. Motor engine to establish oil flow. Once oil is flowing, collect oil and continue to motor for exactly 15 seconds from start of collection. Collect oil during coast down. Max N-1 speed attained: _____ Turbine S/N _____ Total CC _____ If less than 110 cc is collected the strut and oil jet must be cleaned within 25 hours (enter in logbook). A minimum of 90 cc oil is required to release aircraft for return to service.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
3.	Inspect the entire engine for loose or missing bolts, broken or loose connections, security of mounting accessory and broken or missing lock wire. Check accessible areas for obvious damage and evidence of fuel or oil leakage.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
4.	Check mounting and support bolts to be sure they are tight, lock wired and in good condition. Check security of screws and rivets. Remove all foreign material which might be drawn into the compressor inlet.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
5.	Inspect all "B" nuts for application and alignment of torque paint. If missing, loosen "B" nut, retighten, and apply torque paint.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
6.	Check accessible fuel system components, lines, and connections for security, damage or leakage. Accomplish with the boost pump on, if available. Remove, visually inspect and clean if visual condition dictates.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
7.	Inspect the outer combustion case for condition. Inspect the weld joints of and in the brazed screen reinforcement in the armpit area.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
8.	Inspect engine firewalls for general condition, cracks, and loose hardware.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 64	1,2,3,4,5,6
9.	Check fuel control and power turbine governor linkage for freedom of operation, full travel and proper rigging. Check security of linkage for loose or worn linkage and linkage bolts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
10.	Inspect the compressor scroll for cracks or breaks at the anti-ice air valve and customer bleed port. If cracks or breaks are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
11.	Check the condition of the bleed valve gasket, without removing bleed valve. Replace gasket if air leaks (blowouts) can be detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6

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Section 1			
#	Item	Reference	Phase
12.	Inspect for discharge air tube inserts that are cocked or backing out of the scroll. If cocked or loose inserts are detected, check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
13.	Check compressor discharge air tubes for damage or deterioration.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
14.	Check anti-ice valve for security, worn parts and proper operation. Valve need not be removed or disassembled unless a problem is detected.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
15.	Inspect compressor mount inserts, bolts and nuts for looseness, fretting or oil leakage. Replace or retighten as required. Check engine for possible vibration causes.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
16.	Remove, clean and inspect engine Pc filter.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour	2,5
17.	Remove, inspect and replace engine fuel filters.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour	1,4
18.	Remove, inspect and replace airframe fuel filters.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 B28	1,4
19.	Do a fuel pump bypass valve operation check when a fuel filter is replaced. NOTE: Applicable to Sundstrand/Pesco and Argo-Tech/TRW manufactured pumps only.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour	1,4
20.	Remove, clean and reinstall engine fuel nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
21.	Clean engine burner drain valve. Ensure air frame overboard gang drain is clear.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
22.	Check security of engine to transmission drive shaft flange bolts. Inspect Drive shaft for condition. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 11-53 through 11-56. 101-10.1 11	1,4
23.	Inspect engine accessories and mounting struts for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 61	1,4
24.	Remove, inspect igniter plugs for condition, clean, and reinstall.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
25.	Remove engine chip plugs, inspect for contamination and functionally check chip lights by shorting, clean plug, reinstall and safety.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
26.	Remove, inspect and clean #1 bearing oil pressure reducer.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour	2,5
27.	Inspect scavenge oil strut in the power turbine support. Clean carbon deposits from strut.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour	2,5
28.	Visually inspect external sump. Clean internal carbon deposits and build up from sump or replace if necessary.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour	2,5
29.	Inspect No. 6 and 7 bearing pressure oil nozzle. Clean internal carbon deposits from nozzle.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour	2,5

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Section 1			
#	Item	Reference	Phase
30.	Inspect and clean turbine pressure oil check valve. NOTE: Check Valve P/N 23074872 and subsequent part numbers are not applicable to this inspection (these valves are considered "ON CONDITION").	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 300 Hour	2,5
31.	Inspect the ignition lead for burning, chafing, or cracking of conduit and loose connectors and broken lock wire.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
32.	Inspect engine accessories, mounting struts, and control linkages for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 65	3,6
33.	Inspect the turbine support assemblies and engine exhaust ducts for condition of welded joints, for cracks and buckling. Check exhaust duct clamps for proper installation, condition and torque.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour BO-105 Aircraft Maintenance Manual Ch. 101-6.1 61	1,2,3,4,5,6
34.	Check torque of compressor and turbine mount nuts.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
35.	Perform engine compressor wash if environmentally feasible.	Rolls-Royce C20 OMM Ch. 72-00-00 Table 602 100 Hour	1,2,3,4,5,6
36.	Remove and replace filter elements of scavenge oil filters.	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 63	1,3,5
37.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.		1,2,3,4,5,6

Section 2			
#	Item	Reference	Phase
1.	Remove bolt connecting tail rotor shaft to tail rotor head, clean and inspect bolt for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33	1,4
2.	Without disassembly, inspect spherical bearings in fork end of tail rotor shaft.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 33	1,2,3,4,5,6
3.	Grease splines of tail rotor shaft for sliding sleeve.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33	1,2,3,4,5,6
4.	Grease ball bearing of sliding sleeve.	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 33	1,2,3,4,5,6
5.	Check ball bearings of sliding sleeve for proper running and absence of play.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33	1,2,3,4,5,6
6.	Inspect tail rotor blades for impact damage and cracks in surface protection. The cover tape in the nose area does not have to be removed.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 34	1,2,3,4,5,6
7.	Inspect tail rotor assembly for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 33	1,2,3,4,5,6
8.	Perform tail rotor dynamic balance check.	BO-105 Aircraft Maintenance Manual Ch. 107-3	1,2,3,4,5,6
9.	Inspect drain hole in tail boom for obstructions.		1,2,3,4,5,6

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Section 2			
#	Item	Reference	Phase
10.	Inspect tail rotor gearbox attach fitting in vertical fin for loose rivets and cracks	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 31	1,2,3,4,5,6
11.	Loosen boots and inspect visible part of tail rotor gearbox output shaft for condition (without removal). (Previous phase program)		1,4
12.	Inspect intermediate gearbox and tail rotor gearbox for security, leaks, condition and corrosion.	BO-105 Aircraft Maintenance Manual Ch. 32	1,2,3,4,5,6
13.	Inspect, functionally test, clean, and reinstall intermediate gearbox magnetic chip plug.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 32	1,2,3,4,5,6
14.	Inspect, functionally test, clean, and reinstall tail rotor gearbox magnetic chip plug	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 32	1,2,3,4,5,6
15.	Visually inspect support brackets on vertical fin for cracks. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 32	2,5
16.	Control rod in vertical fin: Visual inspect sealing of blind hole in fork end for damage	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 42	3,6
17.	Remove tail rotor shaft fairing and small fairing between tail boom and vertical fin and visually inspect upper side of tailboom, in the area fwd. of the vertical fin, for cracks. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 32	2,5
18.	Check all bolts on tail rotor drive shaft connecting flanges for required torque. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 32	2,4,6
19.	Inspect tail rotor drive for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 32	1,2,3,4,5,6
20.	Check connecting bolts on tailboom attachment cone for specified torque value. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 101	3,6
21.	Remove control rod in the tailboom and inspect chafe protection for condition and grease sliding areas.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 42	3,6
22.	Visually inspect seals on rod end and clevis for damage. Following rods affected: a) Control rod in tailboom b) Control rod in vertical fin (upper clevis)	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 42	3,6
23.	Anti-collision light mounting bracket on vertical fin; remove clamping ring and pull up lamp as far as possible. Inspect both sides of radius area between flange and cylindrical part of bracket for cracks. Discard defective brackets. Inspect clamp for condition and welded joint between lugs for tightening screw and the clamping ring for broken weld spots, reinstall lamp.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 92 Previous phase program	1,2,3,4,5,6
24.	Inspect long tail rotor drive shaft (without removal) for condition, corrosion, cracks or other damage, check bearings for rough running, radial play, corrosion and rubber bushings for condition. Check tail rotor brackets for condition.	BO-105 Aircraft Maintenance Manual Ch. 32-4 or 32-5.	1,2,3,4,5,6

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Section 2			
#	Item	Reference	Phase
25.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.		1,2,3,4,5,6

Section 3			
#	Item	Reference	Phase
1.	Check external cargo mirror for condition and security of attachment, if installed. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 837	1,2,3,4,5,6
2.	Inspect cargo hook system for condition. Electrical and manual release system for operation, if installed.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 822	1,2,3,4,5,6
3.	Inspect landing gear for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 51	1,2,3,4,5,6
4.	Ventilate dual torque indication system	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 91	1,2,3,4,5,6
5.	Inspect Skywatch 497 components for security of attachment and condition of wiring.	ICA	1,4
6.	Inspect cabin ventilation for condition, check for function	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 700	2,5
7.	Inspect pilot and copilot seats for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 700	1
8.	Inspect split bench seat for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 806	1,4
9.	Inspect harnesses, buckles and inertia reels for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 700	1,4
10.	Drain moisture from pitot/static system.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 91	1,4
11.	Check condition and security of maintenance steps and grips if installed. (Previous phase program)		1,2,3,4,5,6
12.	If floats are installed inspect for security and condition. Check pressure of bottle. (Previous phase program)	Air Cruisers Manufactures Manual	1,2,3,4,5,6
13.	Remove fuselage inspection panel under front seats. Inspect airframe area for cracks and general condition. Inspect control rods, wiring, plumbing, and heater installation for general condition. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 51.	1,4
14.	Inspect landing gear mounting brackets and surrounding fuselage area for condition	BO-105 Aircraft Maintenance Manual Ch. 21-3 Step 10	2,5
15.	Inspect landing gear for condition.	BO-105 Aircraft Maintenance Manual Ch. 51-2	1,2,3,4,5,6
16.	Inspect skids, skid protective plates for damage, tighten plates and skid shoes. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 51.	2,5
17.	Check torque of landing gear screws and bolts, check screws and bolts for secure installation. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 51.	2,5
18.	Check cross tube bearing bushings for condition and secure installation. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 51.	2,5

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Section 3			
#	Item	Reference	Phase
19.	Inspect litter retention system for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 821	2,5
20.	Inspect wire strike protection system for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-10.2 859	3,6
21.	Inspect bleed air/auxiliary heating system for condition.	BO-105 Aircraft Maintenance Manual Ch. 850-4	3,6
22.	Check long range fuel tank for condition. (if tank remains installed)	BO-105 Aircraft Maintenance Manual Ch. 101-6.2 831	1,2,3,4,5,6
23.	Visually inspect baffle plate, located between oil cooler and fan, and attaching clamps for cracks	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 63	1,2,3,4,5,6
24.	With floor panels removed, inspect pressure oil lines and fuel lines in the fuselage for chafe marks, leaks and secure installation. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 21-3	3,6
25.	With floor panels removed, inspect control tubes for chafing, condition and excessive wear. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 21-3	3,6
26.	Inspect vertical control tubes and bellcranks below hydraulic unit in left hand side of fuselage for condition and excessive play. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 21-3	3,6
27.	Inspect vertical tail rotor control tube and bellcranks in right hand side of fuselage at bulkhead 8 for condition and excessive play. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 21-3	3,6
28.	Inspect visible electrical lines, connections, cable ducts and fuses for proper condition and secure install. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 21-3	2,5
29.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.		1,2,3,4,5,6

Section 4			
#	Item	Reference	Phase
1.	Inspect chip detector of main transmission for deposits, functionally test, clean and reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11	1,2,3,4,5,6
2.	Inspect main rotor system for condition.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13	1,2,3,4,5,6
3.	Inspect M/R blades for condition. Ensure scarf joints are sealed and blade paint is touched up. Check pendulum absorbers for free rotation. Check oil level or lubricate. (inspection interval based on previous experience)	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 14	1,2,3,4,5,6
4.	Inspect flight control components (boosted section of flight controls) located above the hydraulic system including swashplate for condition. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 41	1,2,3,4,5,6

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Section 4			
#	Item	Reference	Phase
5.	Visually inspect swashplate for general condition and visually inspect bearing forks of control ring and bearing ring for cracks using a 6X magnifying glass (300hr requirement ASB 40-103 incorporated into the MM)	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 41	1,4
6.	Clean swashplate sliding surface on support tube. Move swashplate to uppermost position to expose sliding surface. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 41-3	1,4
7.	Lubricate swashplate bearing. (inspection interval based on previous experience)	BO-105 Aircraft Maintenance Manual Ch. 101-3.1 41	1,4
8.	Inspect swashplate driving link assembly for condition and bearings for play. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 13-22.	1,2,3,4,5,6
9.	Visually inspect seals on upper rod ends for condition. The following control rods are affected: a) Vertical control rods below hydraulic unit b) Control rods between hydraulic unit and mixing lever assembly c) Rotating control rods.	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 41	1,2,3,4,5,6
10.	Remove secondary blade bolts, clean, inspect, and apply lubricant, reinstall.	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 13	1,2,3,4,5,6
11.	Remove locking lever assembly, clean and inspect for condition (crack inspection not required)	BO-105 Aircraft Maintenance Manual Ch. 101-8.2 854	1,2,3,4,5,6
12.	Inspect main transmission and attached parts for condition. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 101-8.1 11	1,2,3,4,5,6
13.	Visually inspect area of support tube flange for cracks using a 5X or greater magnifying glass (12 Month requirement of ASB 10-120, incorporated into the MM)	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11	2,5
14.	Inspect hydraulic system as follows: a) Inspect for general condition b) Check input levers for excessive play c) Check eyebolt bearings for excessive play d) Check piston rod couplings for correct clearance and freedom of axial play. e) Spray coat N ₂ lever with corrosion preventative compound. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 101-7.1 43	1,2,3,4,5,6
15.	Inspect control rods between mixing lever assembly and swashplate for condition, bearings for excessive play (control rod removed). (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 43	1,2,3,4,5,6
16.	Inspect mixing lever assembly for condition and bearings for looseness or binding. (Previous phase program)	BO-105 Aircraft Maintenance Manual Ch. 41-68.	1,2,3,4,5,6
17.	Check filter contamination indicator (lateral indicator pin configuration)	BO-105 Aircraft Maintenance Manual Ch. 43-14	1,2,3,4,5,6
18.	Function test flat springs	BO-105 Aircraft Maintenance Manual Ch. 101-10.1 43	3,6

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Section 4			
#	Item	Reference	Phase
19.	Clean transmission oil filter and inspect for contamination	BO-105 Aircraft Maintenance Manual Ch. 101-6.1 11	1,2,3,4,5,6
20.	Enter in the log book any POC's, SCC's, Leak checks, and torque checks that may be due. Each type or group must be made as a separate entry.		1,2,3,4,5,6

Section 5			
#	Item	Reference	Phase
1.	Check that Registration Certificate, Airworthiness Certificate, Flight Manual and Operations Manual are in their proper place.		1,2,3,4,5,6
2.	Check weekly status report for any time change components, Service Bulletins, Technical Bulletins, Airworthiness Directives, or special inspections due.		1,2,3,4,5,6
3.	Inspect aircraft first aid kit and survival kit for proper seal, if broken; check contents.		1,2,3,4,5,6
4.	Insure placards and decals required by the Rotorcraft Flight Manual Limitations Section for installed equipment are in place and legible. Inspect for external load combination placard.	Flight manual, FAR 133.149	1,2,3,4,5,6