

SKYLINE HELICOPTERS LTD.



AgustaWestland AW119 MKII Inspection Checklists

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Reviewed By:

Quality Assurance: _____

Date: _____

Approval

Director of Maintenance: _____

Date: _____

AW119 – 50 Hour/60 Day Inspection

Each listed inspection item or maintenance function is to be performed in accordance with the current Agusta AW119 MKII Maintenance Manual and Pratt & Whitney PT6B-37A Maintenance Manual requirements.

50 HOUR / 60 DAY GENERAL

Perform this inspection every 50 flight hours or 60 calendar days whichever comes first.

1) Heating and Ventilation

- a) Ventilation air intake screen and ducts for condition. 4.22

2) Landing Gear

- a) Landing skid for damage, condition and forward and rear saddles connecting skid to crossbeams for sealing integrity. 8.2
- b) Landing skid damper for condition and leaks. Support for condition. 8.4
- c) Rear crosstube and central support for condition and security (visible parts). 8.3
- d) Forward crosstube and fuselage attaching clamps for condition and security. 8.5

3) Fuel System

- a) Fuel tank sump cover for condition and security. 8.27
- b) Fuel system drain lines and valves for leaks. 8.1

4) Hydraulics

- a) Hydraulic pump for leaks.

5) Main Rotor

- a) Main rotor hub and blades for condition, damage and cleanliness. 4.14
- b) Main rotor elastomeric bearings for separation or loss of bearing elements, eventual blowing and/or rubber extruding and absence of oil or grease; if contaminated ref. to Para 62-21-50 for cleaning. 4.8
- c) Ground jumpers between pitch control lever (inside grip) and damper and between damper and attachment bracket to hub for condition. 4.11
- d) Main rotor damper fittings for condition, unusual play and cracks in the area of the attachment point to the hub. 4.15
- e) Main rotor dampers for condition, security, unusual play of bearings and correct fluid level. 4.10
- f) Main rotor hub cover for condition and security. 4.23
- g) Flap and drop restrainers for condition, freedom of movement and integrity of lockwire. Inspect floating ring and droop stop plates for condition and check that grease is present in contact area. 8.7

6) Swash Plate

- a) Main rotor pitch change links for condition, security, corrosion and fretting of the spherical bearings, loss of part of the liner and unusual play (check axial play by moving the pitch link by hand and the radial play by rotating the blade along its pitch axis and by acting from the tip cap area). 8.10
- b) Check interrupter and magnetic pick-up for condition and security (provision for main rotor balance and track). 4.9
- c) Swashplate upper and lower boots for condition, integrity and absence of grease on external surfaces. 4.13
- d) Swashplate and rotating scissor for condition, security and unusual play. Ref. to para 62-31-9; in case of doubt ref. to para 62-31-9A. 4.24
- e) Main rotor elastomeric bearings for separation or loss of bearing elements, eventual blowing and/or rubber extruding and absence of oil or grease; if contaminated ref. to Para 62-21-50 for cleaning. 4.8

7) Transmission

- a) Main transmission and accessories for condition, security and leaks of lubricant. 4.16
- b) Engine to transmission drive shaft (visible part) for condition and security of attaching hardware. Check bolts attaching shaft flange to the engine and to the main transmission for integrity of slippage marks. 4.17
- c) Transmission to fan drive shaft for condition, security and freedom of axial movement. 8.14
- d) Main transmission and accessories for condition, security and leaks of lubricant. 4.16
- e) Check rotor brake assembly for security of attachments. ??

AW119 – 50 Hour/60 Day Inspection

8) Flight Controls

- a) Visible parts of flight controls, levers and supports for condition and security. ??
- b) Main rotor servos actuator for condition, security and leaks. Inspect bleed hole for leaks, lower spherical bearing for looseness and upper bearing for abnormal play. 4.19
- c) Tail rotor servo actuator for condition, security and leaks. 8.26

9) Engine

- a) Forward and aft engine supports and rods for condition and security. 4.20
- b) Engine exhaust duct for condition, security and cracks. 4.21
- c) Fan and oil cooler for condition and security. 8.13
- d) Engine oil filter housing for condition, leaks and security. 8.28
- e) Gas Generator Control lever rigging check, ref to AW119 MKII MM Para 76-11-29A 8.29

10) Perform a manual override system static check.

Ref. P&W Chapter 71-00-00, Power Plant-Adjustment/Test.

11) Perform a control system stability check.

Ref. P&W Chapter 71-00-00, Power Plant-Adjustment/Test.

12) Perform a mechanical mode check.

Ref. P&W Chapter 71-00-00, Power Plant-Adjustment/Test.

13) Tail Boom

- a) Tail boom exterior (pay particular attention to tail boom and fuselage attachment areas) and stabilizer for cracks, dents, missing and/or loose rivets and screws.
- b) Position and anti-collision lights for condition, security and cracks.
- c) Tail rotor drive shafts for condition, security, proper bonding of balancing weights and rings in contact with dampers.
- d) Tail rotor drive shaft bearing for condition and excessive grease leakage. In case excessive grease leakage is detected inspect for roughness to rotation.
- e) Tail rotor drive shaft Thomas couplings for condition and cracks of visible surfaces.
- f) Tail rotor drive shaft dampers for condition and freedom of movement.
- g) Tail boom exterior (pay particular attention to tail boom and fuselage attachment areas) and stabilizer for cracks, dents, missing and/or loose rivets and screws.
- h) Position lights for condition, security and cracks.

14) Fins, 90° Gearbox, Tail Skid

- a) External fuselage for cracks, dents, missing and/or loose rivets and screws.
- b) Inspect sealant bead in the coupling area between the pinion mounting sleeve and the 90° gearbox housing for presence of crazing or cracks. Ref. to B.T. 119-23 Part I.
- c) Tail rotor (90°) gearbox for condition, security, and oil leaks.

15) Tail Rotor

- a) Tail rotor hub and blades for condition, contamination of oil/grease, security and freedom of flapping. Flap stop bumpers and boots for condition and damage. Tail rotor hub for unusual play along flapping axis. Tail rotor blades for condition, scratches and dents.
- b) Tail rotor pitch change mechanism for condition, security and unusual play.

16) Electrical

- a) Anti-collision light for condition, security and cracks.
- b) Battery and relative mount attachments for condition and security. Vent lines for condition and obstruction
- c) Nose compartment electrical/avionic components, relative mounts and floor attachment area for condition, cracks and security.
- d) SAS pitch and roll actuators for unusual play, condition and security; electrical connections for condition and security.

17) Cabin Interior

- a) Inspect litter for cleanliness, condition and security.

AW119 – 50 Hour/60 Day Inspection

- b) Magnetic compass for level of fluid. Correction card for legibility.
- c) Safety belts for condition. Release mechanism for operation.
- d) Passenger seats for condition and security.
- e) Check the contents of the first aid kit onboard and expiring date of all the components.
- f) Set radio master (RAD MSTR) switch to on and check that avionic cooler fan (nose compartment) operates.

18) Certification And Maintenance Requirements

- a) Operational check of impending by-pass switch P/N 42D218.
Ref. to para 28-41-13

Optional Role Equipment

NOTE: It is the responsibility of the AME performing the inspection to determine the Optional Role Equipment installed on the helicopter at the time of the inspection and to complete the inspection tasks applicable to that equipment.

19) Cargo Hook

- a) Check operation of emergency cargo release system. Ref. to Section 25-92 and 25-93.
- b) Inspect cargo hook components, structure and electrical connection for condition and security.
(1) .

20) Lubrication & servicing (refer chapter 12)

- a) Lubricate main rotor floating ring.
- b) Lubricate main rotor swashplate bearing (2 places).
- c) Lubricate tail rotor driveshaft bearing.
- d) Lubricate tail rotor pitch change mechanism duplex bearing.
- e) Check Engine Oil Level and oil filter bypass.

AW119 – 50 Hour/60 Day Inspection

COMPLIANCE RECORD

A/C REGISTRATION: _____

1. Heat/Vent	2. Landing gear	3. Fuel	4. Hydraulics	5. Main Rotor	6. Swashplate	7. XMSN
8. Flight Control	9. Engine	10. Override Static	11. Stability	12. Mech. Mode	13. Tailboom	14. 90 Deg
15. Tail Rotor	16. Electrical	17. Interior	18. CMR	19. Hook	20. Service	

SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		

Power Assurance Check (Not required at every 50 hour inspection)

Complete if operational conditions allow i.e. Pilot is available and not over duty day.

Use graphs on next page or back of sheet for instructions and Max N1 and ITT.

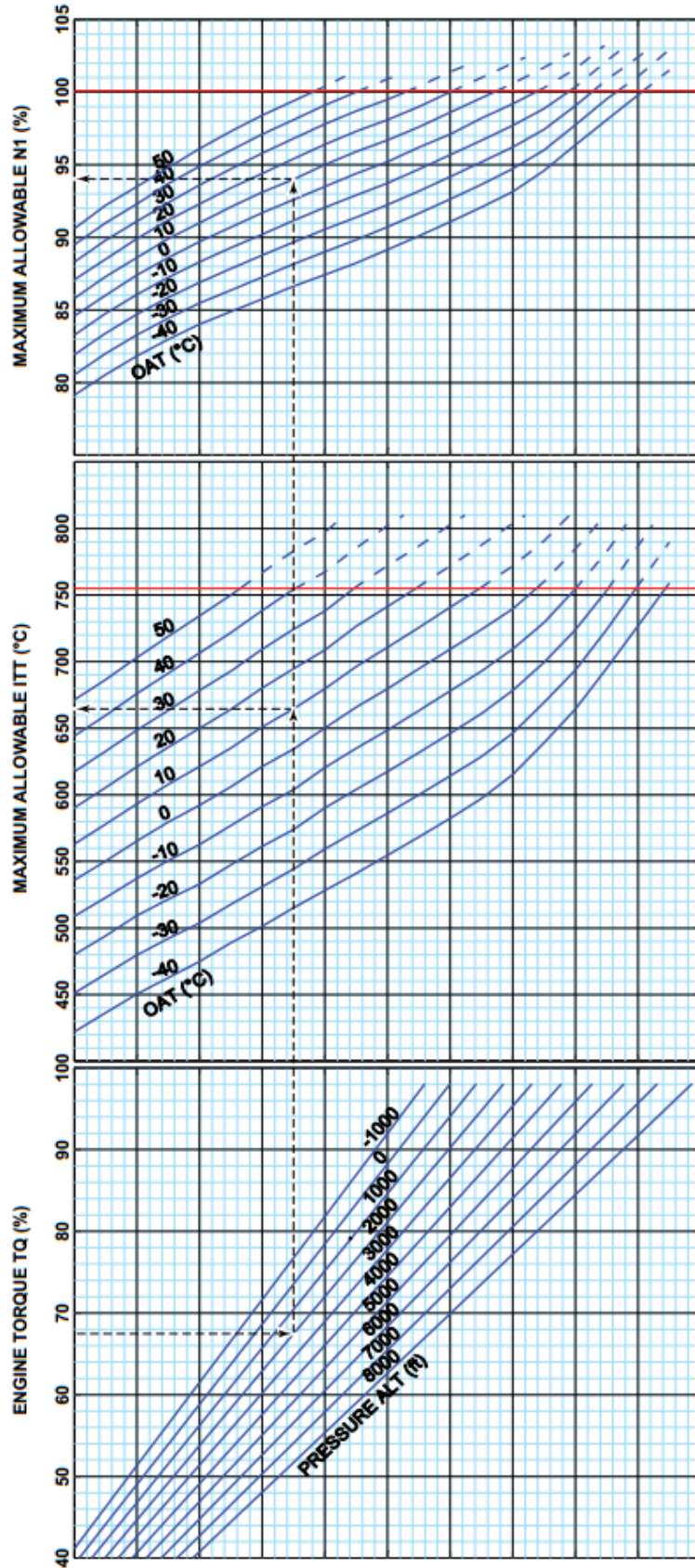
Pilot:		Complete check in a Hover and Engine Torque at 55%			
General		N1	Observed	ITT	Observed
Press Alt:		Max:		Max:	
OAT:		Observed:		Observed:	
Torque:		+ / - :		+ / - :	

50 HOUR INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

POWER ASSURANCE CHECK in HOVER

HEATER OFF
GENERATOR LOAD TO MINIMUM
NR 102%
INCREASE COLLECTIVE UNTIL LIGHT ON SKID OR HOVERING AT 3 FEET. DO NOT EXCEED ITT 755°C OR N1 100.1% OR TQ 100%
STABILIZE POWER 1 MINUTE, THEN RECORD OAT, PRESSURE ALTITUDE, ENGINE TORQUE, ITT AND N1
ENTER CHART AT INDICATED TQ. MOVE DOWN TO INTERSECT PRESSURE ALTITUDE, PROCEED TO THE RIGHT TO INTERSECT OAT,
THEN MOVE UP TO READ VALUES FOR MAXIMUM ALLOWABLE ITT AND N1
IF INDICATED ITT OR N1 EXCEEDS MAXIMUM ALLOWABLE, REPEAT CHECK, STABILIZING POWER FOR THREE MINUTES
IF THE ENGINE EXCEEDS ALLOWABLE ITT OR N1 AFTER STABILIZING POWER FOR THREE MINUTES, PUBLISHED PERFORMANCE MAY NOT BE ACHIEVABLE. REFER TO EMM
NOTE: ENGINE TORQUE SHOULD BE PREFERABLY SET ABOVE 70% FOR REPEATABILITY OF THE TESTS.



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Figure 4-4. Power Assurance Check - Hover

AW119 – PROGRESSIVE PHASE A INSPECTION

Each listed inspection item or maintenance function is to be performed in accordance with the current Agusta AW119 MKII Maintenance Manual and Pratt & Whitney PT6B-37A Maintenance Manual requirements.

PHASE A GENERAL

Perform this phased inspection every 400 flight hours.

1) Main Rotor

- a) Non-rotating scissors for abnormal play, damage, corrosion and wear. Ref. to para 62-31-9B. In case of abnormal play ref. to para 62-31-20.
- b) Main rotor blades for condition, voids, swelling and cracks particularly near root end, trim tab, tip cap and trailing edge. Ref. to para 62-11-8 thru 62-11-23 or para 62A-11-8 thru 62A-11-23.
- c) Pitch change links bearings for excessive play. Ref. to para 62-31-8.
NOTE: For bearings with more than 800 hours, remove pitch change links and check the play of bearings. Ref. to para 62-31-12.
- d) Check main rotor flapping limiter stop for correct torque. Ref. to para 62-21-40.
- e) Inspect main rotor damper and fitting for wear and damage. Ref. to para 62-21-26.
- f) Rotating scissors hinge points for excessive play, damage, corrosion and wear. Ref. to para 62-31-9A. In case of excessive play ref. to 62-31-16.
- g) (For rotating scissor P/N 109-0134-09-101 only) check painted markings for visibility and integrity.
- h) (Only for P/N 109-0111-43-101 or -113) Remove hub cover and inspect for loose or missing rivets and for cracks to the internal ribs. Ref. to para 62-21-14, step M.

2) Aerodyne Performance Monitoring System

- a) Perform structural inspection of HPMS components, and inspect for security of attachment.

3) Agusta T/R Pedal Extensions

- a) Lubricate the plunger, and inspect as per MM section 67-21.

4) ISAT-100 Installation

- a) Perform visual inspection of Sky-Trac installation for condition & security.

5) AA Tail Rotor Pedal Lockout Kit

- a) Inspect lockout bracket for condition & security of attachment.
- b) Verify expandable pins are properly positioned in bellcrank & safety clips are latched.
- c) Verify links are fully seated and locked in the lockout bracket.
- d) Inspect warning decal for condition.
- e) Inspect Lanyard & cable assy.
- f) Verify there is no play between expandable pins, links, and bellcrank.

AW119 – PROGRESSIVE PHASE A INSPECTION

Compliance Record

A/C REGISTRATION: _____

1. Main Rotor	2. Aerodyne	3. Pedal Ext.	4. ISAT 100	5. Lock out	
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SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		

PHASE A INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

ICC CERTIFICATION FOR TASK #1

PRINT NAME:	SIGNATURE:	LICENSE NUMBER:
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AW119 – Progressive Phase B Inspection

Each listed inspection item or maintenance function is to be performed in accordance with the current Agusta AW119 MKII Maintenance Manual and Pratt & Whitney PT6B-37A Maintenance Manual requirements.

PHASE B GENERAL

Perform this phased inspection every 400 flight hours.

1) Fuselage

- a) Tail boom internal area, stabilizer attachment area and relative locking system for security and cracks. Surrounding areas for distortion, cracks and defective and/or missing rivets.
- b) Tail boom vertical fin internal area surrounding aft spar attachment to the tail boom for cracks. Ref. to para 53-31-11.
- c) Tail boom internal section surrounding vertical fin attachment for cracks; pay particular attention to rib upper portion.
- d) Inspect Crew Door posts for cracks.
- e) Inspect Upper crew windows aft support structure for cracks.

2) Main Rotor

- a) Remove damper fittings and inspect for condition, cracks and fretting in the area of contact with the hub. Ref. to para 62-21-26.

3) Transmission

- a) Perform operational checkout of circuit and chip detectors on coupling gearbox and upper case. Ref. to para 63-41-14.
- b) Upper case to main case attachment nuts for correct torque. Ref. to para 63-21-23.

4) Tail Rotor

- a) Perform detailed inspection for damage and condition (removal required) of tail rotor hub bushing P/N 109-0131-31-103/109-8131-36-101. Ref. to para 64-21-10 or 64A-21-15.
- b) Tail rotor hub for correct flap hinge friction. Ref. to para 64-21-14 and 64A-21-14.
- c) Inspect bushing P/N 109-0135-14-101 (internal diameter) and pitch change rod P/N 109-0135-02-101. Ref. to para 64-31-10, points L and M.
- d) Perform tail rotor dynamic balance. Ref. to para 64-00-9 and 64A-00-8.

5) Tail Rotor Drive

- a) Perform operational checkout of chip detector circuit. Ref. to para 65-41-6.
- b) (For bearing P/N N651G10V1021 and 109-0424L02-101) Tail rotor drive shaft bearing for condition, corrosion, correct seating of retaining clips, overheating, roughness and freedom to rotation. (shaft/adaptor removal not required).
- c) Tail rotor gearbox mounting sleeve for condition and security, surrounding area on tail boom final rib for cracks, loose rivets and security.
- d) Check of the connecting nuts that fixed the pinion mounting sleeve assy to the case assy of the 90° gearbox P/N 109-0440-06-101, for security and torque value. Refer to B.T. 119-23.

6) Engine Controls

- a) Perform engine controls setting check. Ref. para 76-11-8. Every 100 hours IAW MM

7) Engine Every 100 hour IAW MM

- a) Perform a ground idle function check. Ref. P&W 71-00-13 (E), Power Plant Adjustment/Test.
- b) Do an EEC engine trim. Ref. P&W 71-00-00, Power Plant Adjustment/Test..
- c) Clean and Inspect P3 Air Filter Element and Drain Valve. Ref. P&W 72-00-24, P3 Air Filter - Maintenance Practices.

8) Lubrication and Servicing (Refer Chapter 12)

- a) Replace tail rotor gearbox oil.

AW119 – Progressive Phase B Inspection

COMPLIANCE RECORD

A/C REGISTRATION: _____

1. Fuselage	2. Main Rotor	3. Transmission	4. Tail Rotor	5. Tail Rotor Drive	6. Engine Controls
7. Engine	8. TR GB Oil				

SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		

PHASE B INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

ICC CERTIFICATION FOR TASKs #2 and #4

PRINT NAME:	SIGNATURE:	LICENSE NUMBER:
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AW119 – Progressive Phase C Inspection

Each listed inspection item or maintenance function is to be performed in accordance with the current Agusta AW119 MKII Maintenance Manual and Pratt & Whitney PT6B-37A Maintenance Manual requirements.

PHASE C GENERAL

Perform this phased inspection every 400 flight hours.

GENERAL

Perform this phased inspection subsequently after every 400 flight hours.

1) Auto Flight

- a) SAS yaw actuator for unusual play, condition and security; electrical connections for condition and security.

2) Fuselage

- a) Tail boom internal area surrounding the attachment points and relative fuselage brackets for cracks, corrosion and visual evidence of distortion. Ref. to Para 53-31-9A (Tail boom removal not required).
- b) Inspect main transmission structural fwd and aft lower fittings for corrosion, cracks and proper condition of joints. Ref to para 63-31-10

3) Aerodyne Performance Monitoring System

- a) Perform structural inspection of HPMS components, and inspect for security of attachment.

4) Agusta T/R Pedal Extensions

- a) Lubricate the plunger, and inspect as per MM section 67-21.

5) ISAT-100 Installation

- a) Perform visual inspection of Sky-Trac installation for condition & security.

6) AA Tail Rotor Pedal Lockout Kit

- a) Inspect lockout bracket for condition & security of attachment.
- b) Verify expandable pins are properly positioned in bellcrank & safety clips are latched.
- c) Verify links are fully seated and locked in the lockout bracket.
- d) Inspect warning decal for condition.
- e) Inspect Lanyard & cable assy.
- f) Verify there is no play between expandable pins, links, and bellcrank.

7) Dart Bearpaws

- a) Remove bearpaws and inspect clamps and bearpaws for damage and wear.
- b) Replace damaged or worn parts.
- c) Reinstall bearpaws IAW. Dart instructions as required.

8) Dart Cargo Mirror

- a) Inspect all components of the installation for damage and wear. Cracked parts should be replaced.
- b) Check all fasteners for tightness.
- c) Check operation of the cable for stowing & deploying.

9) Dart Bubble Window

- a) Inspect all parts of the installation for damage (scratches, or cracks).
- b) Inspect the seal for deterioration or cracks.
- c) Verify that the door is opening & closing properly, inspect for damage or wear IAW. Agusta MM.

AW119 – Progressive Phase C Inspection

COMPLIANCE RECORD

A/C REGISTRATION: _____

1. Auto Flight	2. Fuselage	3. Aero-Dyne	4. TR Pedal Ext.	5. ISAT	6. TR Pedal Lock
7. Dart BearPaws	8. Dart Cargo Mirror	9. Bubble Window			

SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		

PHASE C INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

AW119 – Progressive Phase D Inspection

Each listed inspection item or maintenance function is to be performed in accordance with the current Agusta AW119 MKII Maintenance Manual and Pratt & Whitney PT6B-37A Maintenance Manual requirements.

PHASE D GENERAL

Perform this phased inspection every 400 flight hours.

1) Auto Flight

- a) SAS pitch and roll actuators, on roof deck, and yaw actuator, on rear fuselage; check slippage marks between body and shaft.

2) Fuel

- a) Perform a functional test of impending bypass switch P/N 42D218 to verify operation at 1.4 PSID. Ref. to para 28-41-14.

3) Tail Rotor

- a) Tail rotor blades (P/N 709-0160-48-101 only) for:
 - i) Voids. Ref. to para 64A-11-8.
 - ii) Scratches, dents and cracks. Ref. to para 64A-11-8.
 - iii) Clean tail rotor blade to maintain an improved visibility of warning stripes. Ref. to para 64A-11-7.
- b) (Only for tail rotor hub and blade assy P/N 109-8131-02-155) Remove grip assy and inspect bushing liner for wear. Ref. to para 64-21-9 step E.
- c) (Only for tail rotor hub and blade assy 109-0162-03-101 and 109-0162-03-105).
 - i) Inspect blade elastomeric bushing for: condition, fretting and wear, including relative hub contact area. Refer to para 64A-11-8.
 - ii) Inspect blade retention bolt for condition, corrosion and nicks. Refer to para 64A-11-8.
- d) Inspect pitch change mechanism and related hardware for damage, corrosion and excessive wear. Ref. to para 64-31-9 and 64-31-10.
- e) Perform detailed inspection for damage and condition (removal required) of tail rotor hub bushing P/N 109-0131-31-103/109-8131-36-101. Ref. to para 64-21-10 or 64A-21-15.
- f) Tail rotor hub for correct flap hinge friction. Ref. to para 64-21-14 and 64A-21-14.
- g) Inspect bushing P/N 109-0135-14-101 (internal diameter) and pitch change rod P/N 109-0135-02-101. Ref. to para 64-31-10, points L and M.
- h) Perform tail rotor dynamic balance. Ref. to para 64-00-9 and 64A-00-8.

4) Engine Controls

- a) Perform engine controls setting check. Ref. para 76-11-8.

5) Engine

- a) Engine cowling for cracks and defective and/or missing rivets.
- b) Engine bay drain filters for obstruction.
- c) Engine mounts, supports and rods surrounding area for condition, corrosion, cracks, distortions and security in particular in the area of fuselage aft mount fittings.
- d) Perform a ground idle function check. Ref. P&W 71-00-00, Power Plant Adjustment/Test.
- e) Do an EEC engine trim. Ref. P&W 71-00-00, Power Plant Adjustment/Test.
- f) Clean and Inspect P3 Air Filter Element and Drain Valve. Ref. P&W 72-00-24, P3 Air Filter - Maintenance Practices.

6) Bleed-Air Heater

- a) Inspect bleed air pipes, relevant joints and lines for condition and security.

7) Lubrication and Servicing (Refer Chapter 12)

- a) Replace tail rotor gearbox oil.
- b) Service hydraulic system accumulators with nitrogen.
- c) Lubricate main rotor servo actuators (3 places).

AW119 – Progressive Phase D Inspection

COMPLIANCE RECORD

A/C REGISTRATION: _____

1. Auto Flight	2. Fuel	3. Tail Rotor	4. Eng. Control	5. Engine	6. Bleed-Air Heat
7. Lub. and Service					

SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		

PHASE D INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

ICC CERTIFICATION FOR TASKs #3

PRINT NAME:	SIGNATURE:	LICENSE NUMBER:
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AW119 – Progressive Phase E Inspection

Each listed inspection item or maintenance function is to be performed in accordance with the current Agusta AW119 MKII Maintenance Manual and Pratt & Whitney PT6B-37A Maintenance Manual requirements.

PHASE E GENERAL

Perform this phased inspection every 400 flight hours.

1) Main Rotor

- a) Non-rotating scissors for abnormal play, damage, corrosion and wear. Ref. to para 62-31-9B. In case of abnormal play ref. to para 62-31-20.
- b) Main rotor blades for condition, voids, swelling and cracks particularly near root end, trim tab, tip cap and trailing edge. Ref. to para 62-11-8 thru 62-11-23 or para 62A-11-8 thru 62A-11-23.
- c) Pitch change links bearings for excessive play. Ref. to para 62-31-8.
NOTE: For bearings with more than 800 hours, remove pitch change links and check the play of bearings. Ref. to para 62-31-12.
- d) Disconnect pitch change links and rotating scissors (removal is not required) and inspect swashplate duplex bearing for noise and roughness to rotation. Ref to para. 62-31-24
- e) Check main rotor flapping limiter stop for correct torque. Ref. to para 62-21-40.
- f) Inspect main rotor damper and fitting for wear and damage. Ref. to para 62-21-26.
- g) Rotating scissors hinge points for excessive play, damage, corrosion and wear. Ref. to para 62-31-9A. In case of excessive play ref. to 62-31-16.
- h) (For rotating scissor P/N 109-0134-09-101 only) check painted markings for visibility and integrity.
- i) (Only for P/N 109-0111-43-101 or -113) Remove hub cover and inspect for loose or missing rivets and for cracks to the internal ribs. Ref. to para 62-21-14, step M.

2) Aerodyne Performance Monitoring System

- a) Perform structural inspection of HPMS components, and inspect for security of attachment.

3) Agusta T/R Pedal Extensions

- a) Lubricate the plunger, and inspect as per MM section 67-21.

4) ISAT-100 Installation

- a) Perform visual inspection of Sky-Trac installation for condition & security.

5) AA Tail Rotor Pedal Lockout Kit

- a) Inspect lockout bracket for condition & security of attachment.
- b) Verify expandable pins are properly positioned in bellcrank & safety clips are latched.
- c) Verify links are fully seated and locked in the lockout bracket.
- d) Inspect warning decal for condition.
- e) Inspect Lanyard & cable assy.
- f) Verify there is no play between expandable pins, links, and bellcrank.

AW119 – Progressive Phase E Inspection

COMPLIANCE RECORD

A/C REGISTRATION: _____

1. Main Rotor	2. AeroDyne	3. Pedal Ext.	4. ISAT 100	5. Lock out
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SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		

PHASE E INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

ICC CERTIFICATION FOR TASKs #1

PRINT NAME:	SIGNATURE:	LICENSE NUMBER:
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AW119 – Progressive Phase F Inspection

Each listed inspection item or maintenance function is to be performed in accordance with the current Agusta AW119 MKII Maintenance Manual and Pratt & Whitney PT6B-37A Maintenance Manual requirements.

PHASE F GENERAL

Perform this phased inspection every 400 flight hours.

1) Electrical Power

- a) Starter-generator brushes for wear. Commutator contacts for wear, pitting and burnings. Ref. to para 24-31-36 (only for starter generator with XL2 marked after the S/N).

2) Landing Gear

- a) Skid tubes for yielding and skid shoes for corrosion and damage. Landing gear attachment points for damage, cracks, distortion and security. Cross tubes for warping. (Ref. Para. 32-11-8).
- b) Ground handling wheels attachment for condition.
- c) Support of forward and aft cross tube for cracks, corrosion, distortion, damage and security.
- d) Landing skid attachment bolts for correct torque. Ref. to para 32-11-7.

3) Transmission

- a) Perform operational checkout of circuit and chip detectors on coupling gearbox and upper case. Ref. to para 63-41-14.
- b) Upper case to main case attachment nuts for correct torque. Ref. to para 63-21-23.
- c) Inspect the external surface of the engine to transmission drive shaft for dents, scratches and damage. Ref. to para 63-11-6.

4) Tail Rotor

- a) Perform detailed inspection for damage and condition (removal required) of tail rotor hub bushing P/N 109-0131-31-103/109-8131-36-101. Ref. to para 64-21-10 or 64A-21-15.
- b) Tail rotor hub for correct flap hinge friction. Ref. to para 64-21-14 and 64A-21-14.
- c) Inspect bushing P/N 109-0135-14-101 (internal diameter) and pitch change rod P/N 109-0135-02-101. Ref. to para 64-31-10, points L and M.
- d) Perform tail rotor dynamic balance. Ref. to para 64-00-9 and 64A-00-8.

5) Tail Rotor Drive

- a) Perform operational checkout of chip detector circuit. Ref. to para 65-41-6.
- b) (Only for bearing P/N N651G10V1021) Tail rotor drive shaft bearing for condition, corrosion, correct seating of retaining clips, overheating, roughness and freedom to rotation. (Shaft/adaptor removal not required).
- c) Check of the connecting nuts that fixed the pinion mounting sleeve assy to the case assy of the 90° gearbox P/N 109-0440-06-101, for security and torque value. Refer to B.T. 119-23.

6) Engine Controls

- a) Check engine (collective and power) for freedom of travel throughout range and for excessive looseness or lost motion in linkage. Ref. to para 76- 11-17B and 76-12-35.
- b) Check RVDT for proper operation. Ref. to para 76- 11-16A or 76- 11-17A.
- c) Check LVDT for proper operation. Ref. to para 76- 11-34A or 76- 11-35.

7) Engine Oil

- a) Fan shaft for freedom of rotation and spline for wear and fretting. Ref. to para 79-21-8.
- b) Fan support group for damage. Impeller for damage and evidence of chafing on blade tips. Ref. to para 79-21-8.

8) Engine Every 100 hours IAW PW MM

- a) Perform a ground idle function check. Ref. P&W 71-00-00, Power Plant Adjustment/Test.
- b) Do an EEC engine trim. Ref. P&W 71-00-00, Power Plant Adjustment/Test.
- c) Clean and Inspect P3 Air Filter Element and Drain Valve. Ref. P&W 72-00-24, P3 Air Filter - Maintenance Practices.

9) Lubrication And Servicing (Refer Chapter 12)

- a) Replace tail rotor gearbox oil.

AW119 – Progressive Phase F Inspection

COMPLIANCE RECORD

A/C REGISTRATION: _____

1. Electrical	2. Landing Gear	3. XMSN	4. Tail Rotor	5. TR Drive	6. Engine Control
7. Engine Oil	8. Engine	9. TR GB Oil			

SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		

PHASE F INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

ICC CERTIFICATION FOR TASKs #4

PRINT NAME:	SIGNATURE:	LICENSE NUMBER:
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AW119 – Progressive Phase G Inspection

Each listed inspection item or maintenance function is to be performed in accordance with the current Agusta AW119 MKII Maintenance Manual and Pratt & Whitney PT6B-37A Maintenance Manual requirements.

PHASE G GENERAL

Perform this phased inspection every 400 flight hours.

GENERAL

Perform this phased inspection subsequently after every 400 flight hours.

1) Auto Flight

- a) SAS yaw actuator for unusual play, condition and security; electrical connections for condition and security.

2) Fuselage

- a) Tail boom internal area surrounding the attachment points and relative fuselage brackets for cracks, corrosion and visual evidence of distortion. Ref. to Para 53-31-9A (Tail boom removal not required).
- b) Inspect main transmission structural fwd and aft lower fittings for corrosion, cracks and proper condition of joints. Ref to para 63-31-10

3) Aerodyne Performance Monitoring System

- a) Perform structural inspection of HPMS components, and inspect for security of attachment.

4) Agusta T/R Pedal Extensions

- a) Lubricate the plunger, and inspect as per MM section 67-21.

5) ISAT-100 Installation

- a) Perform visual inspection of Sky-Trac installation for condition & security.

6) AA Tail Rotor Pedal Lockout Kit

- a) Inspect lockout bracket for condition & security of attachment.
- b) Verify expandable pins are properly positioned in bellcrank & safety clips are latched.
- c) Verify links are fully seated and locked in the lockout bracket.
- d) Inspect warning decal for condition.
- e) Inspect Lanyard & cable assy.
- f) Verify there is no play between expandable pins, links, and bellcrank.

7) Dart Bearpaws

- a) Remove bearpaws and inspect clamps and bearpaws for damage and wear.
- b) Replace damaged or worn parts.
- c) Reinstall bearpaws IAW. Dart instructions as required.

8) Dart Cargo Mirror

- a) Inspect all components of the installation for damage and wear. Cracked parts should be replaced.
- b) Check all fasteners for tightness.
- c) Check operation of the cable for stowing & deploying.

9) Dart Bubble Window

- a) Inspect all parts of the installation for damage (scratches, or cracks).
- b) Inspect the seal for deterioration or cracks.
- c) Verify that the door is opening & closing properly, inspect for damage or wear IAW. Agusta MM.

AW119 – Progressive Phase G Inspection

COMPLIANCE RECORD

A/C REGISTRATION: _____

1. Auto Flight	2. Fuselage	3. Aero-Dyne	4. Pedal Ext.	5. ISAT	6. TR Pedal Lock out
7. Bear Paws	8. Cargo Mirror	9. Bubble Window			

SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		

PHASE G INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

AW119 – Progressive Phase H Inspection

Each listed inspection item or maintenance function is to be performed in accordance with the current Agusta AW119 MKII Maintenance Manual and Pratt & Whitney PT6B-37A Maintenance Manual requirements.

PHASE H GENERAL

Perform this phased inspection every 400 flight hours.

1) FUEL

- a) Perform a functional test of impending bypass switch P/N 42D218 to verify operation at 1.4PSID. Ref. to para 28-41-14.

2) HYDRAULIC POWER

- a) Hydraulic pumps splined shaft seat on transmission for wear. Ref. to para 29-11-27A 29-12-27A and 63-21-39.

3) TAIL ROTOR

- a) Tail rotor blades (P/N 709-0160-48-101 only) for:
 - i) Voids. Ref. to para 64A-11-8.
 - ii) Scratches, dents and cracks. Ref. to para 64A-11-8.
 - iii) Clean tail rotor blade to maintain an improved visibility of warning stripes. Ref. to para 64A-11-7.
- b) (Only for tail rotor hub and blade assy P/N 109-8131-02-155) Remove grip assy and inspect bushing liner for wear. Ref. to para 64-21-9 step E.
- c) (Only for tail rotor hub and blade assy 109-0162-03-101 and 109-0162-03-105).
 - i) Inspect blade elastomeric bushing for: condition, fretting and wear, including relative hub contact area. Refer to para 64A-11-8.
 - ii) Inspect blade retention bolt for condition, corrosion and nicks. Refer to para 64A-11-8.
- d) Inspect pitch change mechanism and related hardware for damage, corrosion and excessive wear. Ref. to para 64-31-9 and 64-31-10.
- e) Perform detailed inspection for damage and condition (removal required) of tail rotor hub bushing P/N 109-0131-31-103/109-8131-36-101. Ref. to para 64-21-10 or 64A-21-15.
- f) Tail rotor hub for correct flap hinge friction. Ref. to para 64-21-14 and 64A-21-14.
- g) Inspect bushing P/N 109-0135-14-101 (internal diameter) and pitch change rod P/N 109-0135-02-101. Ref. to para 64-31-10, points L and M.
- h) Perform tail rotor dynamic balance. Ref. to para 64-00-9 and 64A-00-8.

4) TAIL ROTOR CONTROL

- a) Tail rotor servo actuator for condition, security, leaks and corrosion of control levers.

5) ENGINE CONTROLS

- a) Perform engine controls setting check. Ref. para 76-11-8.

6) ENGINE

- a) Perform a ground idle function check. Ref. P&W 71-00-00, Power Plant Adjustment/Test.
- b) Do an EEC engine trim. Ref. P&W 71-00-00, Power Plant Adjustment/Test.
- c) Clean and Inspect P3 Air Filter Element and Drain Valve. Ref. P&W 72-00-24, P3 Air Filter - Maintenance Practices.

7) OPTIONAL EQUIPMENT

- a) Inspect cargo hook supporting frame, fittings and surrounding fuselage area for corrosion and damage.
- b) Check rotor brake linings for wear. Ref. to para 63-23-25.
- c) Check rotor brake disc for corrosion and condition.

8) LUBRICATION AND SERVICING (Refer Chapter 12)

- a) Replace tail rotor gearbox oil.
- b) Service hydraulic system accumulators with nitrogen.
- c) Lubricate main rotor servo actuators (3 places)

AW119 – Progressive Phase H Inspection

COMPLIANCE RECORD

A/C REGISTRATION: _____

1. Fuel	2. Hydraulics	3. Tail Rotor	4. TR Control	5. Engine Controls	6. Engine
7. Optional Equip.	8. Lub and Service				

SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		

PHASE H INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

ICC CERTIFICATION FOR TASKs #3

PRINT NAME:	SIGNATURE:	LICENSE NUMBER:
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12 MONTH INSPECTION

12 MONTH INSPECTION

Each listed inspection item or maintenance function is to be performed in accordance with the current Agusta AW119 MKII Maintenance Manual and Pratt & Whitney PT6B-37A Maintenance Manual requirements.

GENERAL

Perform this inspection every 12 Months.

1) Equipment/ Furnishing

- a) Examine crew safety restraint system. Ref to Para 25-11-14
- b) Examine passenger safety restraint system. Ref. to Para 25-21-30

2) Electrical Power

- a) External power receptacle for condition and arcing; door for correct closure
- b) Starter-generator for condition and security. Electrical connections for arcing and/ or short circuit evidence.
- c) Electrical wiring for interference and chafing with surrounding areas, for condition and security of connections
- d) Overhead panel internal wirings, breakers and connectors for condition, chafing and arcing.
- e) Remove battery (para 24-31-25) and recondition (para 24-31-26), inspect vent lines for obstructions and damage.
- f) Perform DC electrical system operational check per para 24-31-12, 24-31-14 and 24-31-15.
- g) Generator control box , relay box and related terminals for damage and security of connections.
- h) Perform operational test of AC electrical system 24-21-9
- i) Perform operational test of the battery temperature warning circuit. Ref. to para 24-31-13.
- j) Connectors and cables on transmission deck and engines bays for condition and corrosion.

3) Fire Protection

- a) Portable fire extinguisher:
 - i) Weigh fire extinguisher. Ref. to Para 26-22-7
 - ii) Visually inspect fire extinguisher for general condition. Ref. to Para 26-22-6.
- b) Fire detection system. Ref. To para 26-11-5.

4) Fuel

- a) Drain and vent lines for condition and obstructions.

5) Hydraulic Power

- a) Flexible tubes for condition and chafing; pay particular attention for chafing with main transmission mounts.
- b) Flight controls hydraulic components for leaks.

6) Navigation

- a) Antenna(s) for condition and security. Check sealant for voids and condition.
- b) Drain pitot static and dynamic lines.

7) Doors

- a) Remove pilot doors and inspect jettison mechanism for correct operation. Ref. to para 52-11-10.

8) Fuselage

- a) Fuselage and tail boom exterior for general condition, corrosion, visual evidence of distortion and defective and/or missing rivets.
- b) Service steps, wire ropes and related fixing area on fuselage for condition, security and integrity.
- c) Inspect placards and decals for integrity and legibility.
- d) Inspect cockpit floor and cabin floor for cleanliness, corrosion, dents and damage (liners removal required).
- e) Tail skid for wear. Inspect tail skid attachment area for corrosion, cracks and damage.

9) STABILIZERS

- a) Stabilizer for condition, cracks and distortions, dents, corrosion, defective and/or missing rivets (pay particular attention to the attachment area) Ref. to para 55-00-7. Tail plane removal required.

12 MONTH INSPECTION

10) Rotors Flight Control

- a) Check the following components for condition, clearances, corrosion, security and bearings for abnormal play.
 - i) Control tubes
 - ii) Bellcranks
 - iii) Supports.
- b) Flight controls for freedom of movement.
- c) Check cyclic for correct friction value. Ref. to para 67-12-18.
- d) Check collective for correct friction value. Ref. to para 67-11-16.

11) Bleed Air Heater

- a) Perform operational checkout of bleed air system. Ref. to para 21-41-11.

12) ELT

- a) Visually inspect ELT case and antenna for secure mounting.
- b) Inspect ELT battery pack for corrosion.
- c) Perform ELT operational test using cockpit switch.
NOTE: Always perform test within the first 5 minutes of the hour. Be sure to notify any nearby control tower of your intentions.
- d) Check operation of controls and crash sensor. Ref. to para 25-61-22A.

13) Cargo Hook

- a) Visually check the exterior of the cargo hook for corrosion, paying particular attention to the lug areas of the side plates. Corrosion on the side plates is cause for immediate overhaul.
- b) Perform functional check of load indicating system. Ref. to para 25-92-8B.
- c) Inspect cargo hook supporting frame, fittings and surrounding fuselage area for corrosion and damage.

14) Aerodyne ITT & Torque Indicating System

- a) Perform a functional test of the torque indicating system.
- b) Perform a functional test of the ITT indicating system, and perform verification of ITT trim compensation.

15) Dart Heli-Access Step

- a) Remove the step & clamps from the aircraft to facilitate inspection of the crosstubes for corrosion/pitting or mechanical damage.
- b) Inspect the step & clamps for damage or corrosion. Inspect the step welds for cracks. Touch up black anti-skid coating as required.
- c) Inspect the spherical bearings in the clamps for damage or looseness.
- d) Inspect rubber clamp cushions, replace as required.
- e) Reinstall step assembly I.A.W. Dart instructions as required.

16) DART HELI-UTILITY BASKET

- a) Remove the basket & clamps from the aircraft to facilitate inspection of the crosstubes for corrosion/pitting or mechanical damage.
- b) Inspect all visible areas for damage or corrosion. Inspect the lid & struts for looseness or hole elongation.
- c) Inspect the spherical bearings in the clamps and rod ends for damage or looseness. Check witness hole in struts, and adjust as required.
- d) Inspect lid prop rod & handle, check that placards are installed and legible.
- e) Inspect rubber clamp cushions, replace as required.
- f) Reinstall basket assembly I.A.W. Dart instructions as required (note installation differences applicable to Mk II).

12 MONTH INSPECTION

COMPLIANCE RECORD

A/C REGISTRATION: _____

1. Equip/Furnish	2. Electrical	3. Fire Protection	4. Fuel	5. Hydraulic	6. Nav.
7. Doors	8. Fuselage	9. Stabilizers	10. Flight Control	11. Bleed Air	12. ELT
13. Cargo Hook	14. Aero-Dyne	15. Dart Access Step	16. Dart Basket		

SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
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12 MONTH INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

ICC CERTIFICATION FOR TASK #10

PRINT NAME:	SIGNATURE:	LICENSE NUMBER:
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PHASE RESET

PHASE RESET

Complete this inspection as required or desired to reset the Phase Inspections. This inspection only resets Phases A-H. After this inspection is completed Phases A thru H can be re-staggered 50 hours apart

1) Fuselage

- a) Tail boom internal area, stabilizer attachment area and relative locking system for security and cracks. Surrounding areas for distortion, cracks and defective and/or missing rivets.
- b) Tail boom vertical fin internal area surrounding aft spar attachment to the tail boom for cracks. Ref. to para 53-31-11.
- c) Tail boom internal section surrounding vertical fin attachment for cracks; pay particular attention to rib upper portion.
- d) Inspect Crew Door posts for cracks.
- e) Inspect Upper crew windows aft support structure for cracks.
- f) Tail boom internal area surrounding the attachment points and relative fuselage brackets for cracks, corrosion and visual evidence of distortion. Ref. to Para 53-31-9A (Tail boom removal not required).
- g) Inspect main transmission structural fwd and aft lower fittings for corrosion, cracks and proper condition of joints. Ref to para 63-31-10

2) Electrical Power

- a) Starter-generator brushes for wear. Commutator contacts for wear, pitting and burnings. Ref. to para 24-31-36 (only for standard starter generator).

3) Bleed-Air Heater

- a) Inspect bleed air pipes, relevant joints and lines for condition and security.

4) Main Rotor

- a) Non-rotating scissors for abnormal play, damage, corrosion and wear. Ref. to para 62-31-9B. In case of abnormal play ref. to para 62-31-20.
- b) Main rotor blades for condition, voids, swelling and cracks particularly near root end, trim tab, tip cap and trailing edge. Ref. to para 62-11-8 thru 62-11-23 or para 62A-11-8 thru 62A-11-23.
- c) Pitch change links bearings for excessive play. Ref. to para 62-31-8.
NOTE: For bearings with more than 800 hours, remove pitch change links and check the play of bearings. Ref. to para 62-31-12.
- d) Check main rotor flapping limiter stop for correct torque. Ref. to para 62-21-40.
- e) Inspect main rotor damper and fitting for wear and damage. Ref. to para 62-21-26.
- f) Rotating scissors hinge points for excessive play, damage, corrosion and wear. Ref. to para 62-31-9A. In case of excessive play ref. to 62-31-16.
- g) (For rotating scissor P/N 109-0134-09-101 only) check painted markings for visibility and integrity.
- h) (Only for damper fittings P/N 109-0111-07-101/-105/-109). Remove damper fittings and inspect for condition and fretting in the area of contact with the hub.
- i) (Only for P/N 109-0111-43-101 or -113) Remove hub cover and inspect for loose or missing rivets and for cracks to the internal ribs. Ref. to para 62-21-14, step M.
- j) Remove damper fittings and inspect for condition, cracks and fretting in the area of contact with the hub. Ref. to para 62-21-26.
- k) Disconnect pitch change links and rotating scissors (removal is not required) and inspect swashplate duplex bearing for noise and roughness to rotation. Ref to para. 62-31-24

5) Transmission

- a) Perform operational checkout of circuit and chip detectors on coupling gearbox and upper case. Ref. to para 63-41-14.
- b) Upper case to main case attachment nuts for correct torque. Ref. to para 63-21-23.
- c) Inspect the external surface of the engine to transmission drive shaft for dents, scratches and damage. Ref. to para 63-11-6.

PHASE RESET

6) Landing Gear

- a) Skid tubes for yielding and skid shoes for corrosion and damage. Landing gear attachment points for damage, cracks, distortion and security. Cross tubes for warping. (Ref. Para. 32-11-8).
- b) Ground handling wheels attachment for condition.
- c) Support of forward and aft cross tube for cracks, corrosion, distortion, damage and security.
- d) Landing skid attachment bolts for correct torque. Ref. to para 32-11-7.

7) Hydraulic Power

- a) Hydraulic pumps splined shaft seat on transmission for wear. Ref. to para 29-11-27A 29-12-27A and 63-21-39.

8) Fuel

- a) Perform a functional test of impending bypass switch P/N 42D218 to verify operation at 1.4 PSID. Ref. to para 28-41-14.

9) Engine Controls

- a) Perform engine controls setting check. Ref. para 76-11-8.
- b) Check engine (collective and power) for freedom of travel throughout range and for excessive looseness or lost motion in linkage. Ref. to para 76- 11-17B and 76-12-35.
- c) Check RVDT for proper operation. Ref. to para 76- 11-16A or 76- 11-17A.
- d) Check LVDT for proper operation. Ref. to para 76- 11-34A or 76- 11-35.

10) Engine

- a) Perform a ground idle function check. Ref. P&W 71-00-13 (E), Power Plant Adjustment/Test.
- b) Do an EEC engine trim. Ref. P&W 71-00-00, Power Plant Adjustment/Test..
- c) Clean and Inspect P3 Air Filter Element and Drain Valve. Ref. P&W 72-00-24, P3 Air Filter - Maintenance Practices.
- d) Engine cowling for cracks and defective and/or missing rivets.
- e) Engine bay drain filters for obstruction.
- f) Engine mounts, supports and rods surrounding area for condition, corrosion, cracks, distortions and security in particular in the area of fuselage aft mount fittings.

11) Engine Oil

- a) Fan shaft for freedom of rotation and spline for wear and fretting. Ref. to para 79-21-8.
- b) Fan support group for damage. Impeller for damage and evidence of chafing on blade tips. Ref. to para 79-21-8.

12) Tail Rotor

- a) Tail rotor blades (P/N 709-0160-48-101 only) for:
 - i) Voids. Ref. to para 64A-11-8.
 - ii) Scratches, dents and cracks. Ref. to para 64A-11-8.
 - iii) Clean tail rotor blade to maintain an improved visibility of warning stripes. Ref. to para 64A-11-7.
- b) (Only for tail rotor hub and blade assy 109-0162-03-101 and 109-0162-03-105).
 - i) Inspect blade elastomeric bushing for: condition, fretting and wear, including relative hub contact area. Refer to para 64A-11-8.
 - ii) Inspect blade retention bolt for condition, corrosion and nicks. Refer to para 64A-11-8.
- c) Inspect pitch change mechanism and related hardware for damage, corrosion and excessive wear. Ref. to para 64-31-9 and 64-31-10.
- d) Perform detailed inspection for damage and condition (removal required) of tail rotor hub bushing P/N 109-0131-31-103/109-8131-36-101. Ref. to para 64-21-10 or 64A-21-15.
- e) Tail rotor hub for correct flap hinge friction. Ref. to para 64-21-14 and 64A-21-14.
- f) Inspect bushing P/N 109-0135-14-101 (internal diameter) and pitch change rod P/N 109-0135-02-101. Ref. to para 64-31-10, points L and M.
- g) Perform tail rotor dynamic balance. Ref. to para 64-00-9 and 64A-00-8.

PHASE RESET

13) Tail Rotor Drive

- a) Perform operational checkout of chip detector circuit. Ref. to para 65-41-6.
- b) (For bearing P/N N651G10V1021 and 109-0424L02-101) Tail rotor drive shaft bearing for condition, corrosion, correct seating of retaining clips, overheating, roughness and freedom to rotation. (shaft/adaptor removal not required).
- c) Tail rotor gearbox mounting sleeve for condition and security, surrounding area on tail boom final rib for cracks, loose rivets and security.
- d) Check of the connecting nuts that fixed the pinion mounting sleeve assy to the case assy of the 90° gearbox P/N 109-0440-06-101, for security and torque value. Refer to B.T. 119-23.

14) Tail Rotor Control

- a) Tail rotor servo actuator for condition, security, leaks and corrosion of control levers.

15) Auto Flight

- a) SAS yaw actuator for unusual play, condition and security; electrical connections for condition and security.
- b) SAS pitch and roll actuators, on roof deck, and yaw actuator, on rear fuselage; check slippage marks between body and shaft.
- c) Starter-generator brushes for wear. Commutator contacts for wear, pitting and burnings. Ref. to para 24-31-36 (only for starter generator with XL2 marked after the S/N).

16) Lubrication and Servicing (Refer Chapter 12)

- a) Replace tail rotor gearbox oil.
- b) Service and bleed main rotor dampers without removing from helicopter. Ref. to paragraph 12-20-15.
- c) Service hydraulic system accumulators with nitrogen.
- d) Lubricate main rotor servo actuators (3 places).

Optional Equipment

17) Optional Equipment

- a) Inspect cargo hook supporting frame, fittings and surrounding fuselage area for corrosion and damage.
- b) Check rotor brake linings for wear. Ref. to para 63-23-25.
- c) Check rotor brake disc for corrosion and condition.

18) Aerodyne Performance Monitoring System

- a) Perform structural inspection of HPMS components, and inspect for security of attachment.

19) Agusta T/R Pedal Extensions

- a) Lubricate the plunger, and inspect as per MM section 67-21.

20) ISAT-100 Installation

- a) Perform visual inspection of Sky-Trac installation for condition & security.

21) AA Tail Rotor Pedal Lockout Kit

- a) Inspect lockout bracket for condition & security of attachment.
- b) Verify expandable pins are properly positioned in bellcrank & safety clips are latched.
- c) Verify links are fully seated and locked in the lockout bracket.
- d) Inspect warning decal for condition.
- e) Inspect Lanyard & cable assy.
- f) Verify there is no play between expandable pins, links, and bellcrank.

PHASE RESET

22) Dart Bearpaws

- a) Remove bearpaws and inspect clamps and bearpaws for damage and wear.
- b) Replace damaged or worn parts.
- c) Reinstall bearpaws IAW. Dart instructions as required.

23) Dart Cargo Mirror

- a) Inspect all components of the installation for damage and wear. Cracked parts should be replaced.
- b) Check all fasteners for tightness.
- c) Check operation of the cable for stowing & deploying.

24) Dart Bubble Window

- a) Inspect all parts of the installation for damage (scratches, or cracks).
- b) Inspect the seal for deterioration or cracks.
- c) Verify that the door is opening & closing properly, inspect for damage or wear IAW. Augusta MM.

PHASE RESET

COMPLIANCE RECORD

A/C REGISTRATION: _____

1. Fuselage	2. Electrical Power	3. Bleed Air	4. Main Rotor	5. XMSN	6. Landing Gear	7. Hydraulic
8. Fuel	9. Engine Controls	10. Engine	11. Engine Oil	12. Tail Rotor	13. TR Drive	14. TR Control
15. Auto Flight	16. Service	17. Optional	18. AeroDyne	19. TR Pedal Ext.	20. ISAT 100	21. TR Pedal Lock out
22. BearPaw	23. Cargo Mirror	24. Bubble window				

SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
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4.		

Phase Reset Inspection Completed IAW the Applicable Standards of Airworthiness:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

ICC CERTIFICATION FOR TASK #4, 12

PRINT NAME:	SIGNATURE:	LICENSE NUMBER:
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800 Hour Inspection

800 HOUR INSPECTION

Each listed inspection item or maintenance function is to be performed in accordance with the current Agusta AW119 MKII Maintenance Manual and Pratt & Whitney PT6B-37A Maintenance Manual requirements.

GENERAL

Perform this inspection every 800 flight hours.

1) FUEL

- a) Fuel flexible and rigid tubes for condition, leaks and chafing.

2) HYDRAULIC POWER

- a) Clean the hydraulic filter elements. Ref. to para 29-11-31.

3) FUSELAGE

- a) Tail boom attachment bolts for correct torque. Ref. to para 53-31-8.
- b) Transmission support assemblies and relative fittings secured to fuselage. Ref. to para 63-31-5.
- c) Inspect main transmission structural aft lower fittings, for condition of attachment bolts and condition of surrounding structure, verify correct torque. Ref. to para 63-31-9.

4) MAIN ROTOR

- a) Main rotor head ring nut bolts for correct torque. Ref. to Para 62-21-13.
- b) Swashplate for correct friction. Ref. to para 62-31-28.

5) MAIN ROTOR DRIVE

- a) POWER PLANT AND OIL COOLER FAN
 - i) Splined adapters of transmission to fan drive shaft for excessive radial play and Thomas couplings for cracks and corrosion of laminates. Ref. to 63-11-11 and 63-11-14.
- b) MAIN TRANSMISSION
 - i) Main transmission mounts for condition and/or chafing with tubing.
 - ii) Bolt P/N NAS 625-14 and -18 securing main transmission support fittings to the structure for correct torque. Ref. to para 63-31-7 and 63-31-8.

6) TAIL ROTOR DRIVE

- a) Free bearing adapter of tail rotor drive shaft (para 65-11-9) and inspect bearing for roughness and freedom of rotation. Ref. to para 65-11-25.
- b) Remove tail rotor drive shaft forward and aft sections. Clean and inspect shafts, adapters and thomas couplings per para 65-11-9, 65-11-13 and 65-11-17.
- c) Check drive shaft dampers for dimension, correct friction setting and integrity of supports. Ref. to para 65-11-29.

7) ROTORS FLIGHT CONTROL

- a) Lower spherical bearing of main rotor servo actuators for freedom of movement and correct rotation moment. Ref. to para 67-31-9.
- b) Upper rod-end bearing of main rotor servo actuators for radial play. Ref. to para 67-31-9.
- c) Main rotor servo actuators dowel pin seats for wear, elongation and/or distortion. Ref. to para 67-31-9.

8) ENGINE

- a) Attaching hardware securing engine mount and relative fittings secured to fuselage for correct torque. Ref. to figure 71-7.

9) OIL

- a) Oil flexible and rigid tubes for condition, leaks and chafing.
- b) Detach fan from oil cooler and thoroughly clean oil cooler mating surface with fan.

10) OPTIONAL EQUIPMENT

- a) Perform operational test of Rotor Brake System. Ref. to para 63-23-11.
- b) Check ring nut of rotor brake disc adapter for correct torque. Ref. to para 63-23-32.

800 Hour Inspection

COMPLIANCE RECORD

A/C REGISTRATION: _____

1. Fuel	2. Hydraulic Power	3. Fuselage	4. Main Rotor	5. Main Rotor Drive	6. Tail Rotor Drive
7. Rotors Flight Contr.	8. Engine	9. Oil	10. Optional Equip.		

SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		
4.		
5.		

800 HOUR INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

ICC CERTIFICATION FOR TASK #7

PRINT NAME:	SIGNATURE:	LICENSE NUMBER:
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1600 HOUR SUPPLEMENTAL INSPECTION

1600 HOUR INSPECTION

Each listed inspection item or maintenance function is to be performed in accordance with the current Agusta AW119 MKII Maintenance Manual and Pratt & Whitney PT6B-37A Maintenance Manual requirements.

General

Perform this inspection every 1600 flight hours.

1) Main Rotor Drive

Remove engine to transmission main drive shaft and inspect:

- a) Shaft flanges for nicks, dents, scratches and fretting. Especially on surfaces in contact with engine flange and transmission shaft flange,
- b) Transmission drive quill splines for condition and wear. Refer to AW119MKII-OM, para 63-11-5.

2) Engine

- a) Attaching hardware securing engine mount and relative fittings secured to fuselage for correct torque. Ref. to figure 71-7. Check for evidence of torque loss (fretting, black metallic powder, bright halo in the area, cotter pin condition), if suspected retorque.
- b) Inspect end bearings of engine mounts for play. Ref. to para 71-21-7.
- c) Inspect bearing of LH and RH engine support trunnion for excessive play. Ref. to para 71-01-9.
- d) Inspect oil cooler fan bearings for free of rotation, roughness and abnormal play.

1600 HOUR SUPPLEMENTAL INSPECTION

COMPLIANCE RECORD

A/C REGISTRATION: _____

1 A)	1 B)	2 A)	2 B)	2 C)	2 D)
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SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		
4.		
5.		

1600 HOUR INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

ICC CERTIFICATION FOR TASK #1

PRINT NAME:	SIGNATURE:	LICENSE NUMBER:
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2400 HOUR SUPPLEMENTAL INSPECTION

2400 HOUR SUPPLEMENTAL INSPECTION

Each listed inspection item or maintenance function is to be performed in accordance with the current Agusta AW119 MKII Maintenance Manual and Pratt & Whitney PT6B-37A Maintenance Manual requirements.

GENERAL

Perform this inspection every 2400 flight hours.

1) MAIN ROTOR CONTROLS

- a) Remove and inspect swashplate duplex bearing for damage and corrosion. Ref. to Para 62-31-25.
- b) Swashplate teflon rings (pivot sleeve and swashplate) for wear. Ref. to Para 62-31-25.
- c) Guide and pivot sleeve slot of swashplate for damage and wear. Ref. to para 62-31-25.

2) MAIN ROTOR

- a) Grips, pitch control levers, flap and droop restrainers for condition, damage and wear (hub disassembly required). Inspect blades grips bushings (blade retention pin seat) for wear, nicks and condition. Inspect contact area between blade and grip for condition and washers bondage. Ref. to Para 62-21-23, 62-21-18, 62-21-33, 62-21-35, 62-21-39, 62-21-55.
- b) Main rotor head installation. Ref. to Para 62-21-14.
- c) Hub floating ring for wear and DU washers and internal teflon shim for debonds. Ref. to 62-21-44.
- d) Inspect blade root bushings and blade root washers for damage and wear. Ref. to para 62-11-25 (62A-11-25), 62-11-26 (62A-11-26).
- e) Main rotor pitch change link assembly. Ref. to para 62-31-10.
- f) Inspect main rotor floating ring for wear and damage. Ref. to para 62-21-44.
- g) Inspect main rotor grip droop stop plate for wear and damage. Ref. to para 62-21-23 step F.

3) FUSELAGE

- a) Transmission support assemblies and relative fittings secured to fuselage. Ref. to Para 63-31-5.

2400 HOUR SUPPLEMENTAL INSPECTION

COMPLIANCE RECORD

A/C REGISTRATION: _____

1 A)	1 B)	1 C)	2 A)	2 b)	2 C)
2 D)	2 E)	2 F)	2 G)	3 A)	

SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		
4.		
5.		

2400 HOUR INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

ICC CERTIFICATION FOR TASKs #0 and 2

PRINT NAME:	SIGNATURE:	LICENSE NUMBER:
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3200 HOUR INSPECTION

3200 HOUR INSPECTION

GENERAL

Perform this inspection subsequently after every 3200 flight hours.

1) FUEL

- a) Fuel tanks for debris, water, contamination, cleanliness and presence of fungus. Ref. to para 28-11-10.
- b) Tank and internal components for condition. Perform tank pressure test. Ref. to para 28-12-4.

2) DOORS

- a) Cowlings, fairings, doors and access panels, service steps for condition, cracks, distortions, defective and/or missing rivets and correct hinge operation.

3) FUSELAGE

- a) Visible electrical and electronic component supports for condition and security.
- b) Fuselage for general condition, visual evidence of distortions, nicks, scratches, corrosion, defective and/or missing rivets particularly in the area surrounding attachment points of main transmission, transmission supports, engine mounts, fan supports, tail boom and landing gear.
- c) Fuselage/tail boom attachment holes for corrosion, wear and elongation. Ref. To Para 53-31-9.
- d) Check transmission anti-torque plate and deck structure attaching bolt holes for corrosion, wear and elongation. Ref. to para 63-21-17.
- e) Fuel tank bays for cracks and distortions.
- f) Tail Boom. Visually inspect externally and internally for general condition, distortions, cracks, corrosion, defective and/or missing rivets particularly area surrounding fuselage attachment points, stabilizers, lower fin, tail skid and 90° gearbox. Stabilizers, lower fin and 90° gearbox removed.

3200 HOUR INSPECTION

COMPLIANCE RECORD

A/C REGISTRATION: _____

1 A)	1 B)	2 A)	3 A)	3 B)	3 C)
3 D)	3 E)	3 F)			

SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		
4.		
5.		

3200 HOUR INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

300 HOUR ENGINE INSPECTION

300 HOUR ENGINE INSPECTION

Each listed inspection item or maintenance function is to be performed in accordance with the current Pratt & Whitney PT6B-37A Maintenance Manual requirements.

All work accomplished during the inspection shall be recorded in the helicopter maintenance record.

1) Oil To Fuel Heater

- a) Immediately after shutdown: check the temperature of the heater at the heater fuel outlet or the low pressure (LP) filter housing. If the temperature is more than 140° F (60° C) replace the oil to fuel heater.
- b) Immediately after shutdown: apply a temperature recorder to the LP filter housing. Replace the oil to fuel heater if the center of the recorder becomes black.

NOTE: Use a Temp-Plate Temperature Recorder (PWC05-329) to see if the filter housing becomes hotter than 140° F (60° C).

2) Gas Generator Case

- a) Inspect for cracks, distortion, corrosion and evidence of overheating.

3) Compressor Inlet Area

- a) Check compressor inlet area for dirt deposits and erosion and check first-stage blades and vanes. Ref 5-50-00

4) Fuel Filter (Post SB39027)

- a) Install new high pressure pump fuel filter. Ref. 72-00-22.

300 HOUR ENGINE INSPECTION

COMPLIANCE RECORD

A/C REGISTRATION: _____

1. Oil to Fuel	2. GG Case	3. Compressor Inlet	4. Fuel Filter
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SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		

12 MONTH INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

600 HOUR ENGINE INSPECTION

600 ENGINE INSPECTION

Each listed inspection item or maintenance function is to be performed in accordance with the current Pratt & Whitney PT6B-37A Maintenance Manual requirements.

All work accomplished during the inspection shall be recorded in the helicopter maintenance record.

1) EXHAUST DUCT

- a) Inspect for cracks or distortion.

2) FIRESEALS

- a) Inspect for cracks and security of brackets.

3) TUBING

- a) Check resistance of lead and heating element of heated pneumatic tubes using a suitable ohmmeter or resistance bridge. Ref. 72-00-08.
- b) Check for security of all accessible connections, clamps and brackets, evidence of wear, chafing, cracks and corrosion and evidence of fuel or oil leaks. Examine insulation on pneumatic tubes for cuts in outer rubber sheaths.

NOTE: Damage limits and repair instructions for tubing are given in General Procedures, Page Block 201.

4) OIL FILTER ELEMENT

- a) Replace filter element.

5) COMPRESSOR INLET AREA

- a) At the required frequency and whenever condition of inlet screen warrants its removal, check compressor inlet area for dirt deposits and erosion and check first-stage blades and vanes. Ref. 05-50-00.
- b) **NOTE:** Engines operating in a highly erosive environment and/or conditions where there is a high potential for blade damage require more frequent inspections. Ref. 05-50-00.

6) CHIP DETECTORS Accessory Gearbox – Qty. 1 / Reduction Gearbox – Qty. 1

- a) Check for metallic pick-up and clean using lint-free cloth.
- b) Using suitable ohmmeter, check for continuity of electrical circuit when the two poles are shorted together. Reject component if no continuity. Loose pins and broken potting compound are also cause for rejection. Perform lift test to check magnetism. Ref. 72-00-19.

7) IGNITION SYSTEM

- a) Check security, cleanliness and condition.
- b) Functional check. Ref. 72-00-02.
- c) Inspect ignition exciter connectors for corrosion.

8) IGNITER PLUGS

- a) Inspect for wear and erosion.

9) FUEL PUMP

- a) Check for security and fuel leaks.
- b) Inspect pump coupling for fretting corrosion. Ref. 72-00-22.

10) FUEL FILTER

- a) Install new low pressure fuel filter. Ref. 72-00-23.

11) COMPRESSOR BLEED VALVE – Pre SB39024

- a) Disassemble and inspect compressor bleed valve. Ref. 72-00-01.

12) FCU MANUAL OVERRIDE

- a) Perform functional check. Ref. to Rotorcraft Maintenance Manual.

13) ELECTRICAL WIRING HARNESS

- a) Perform visual check on the wiring harness for evidence of chafing, cracks, corrosion and wear. Verify connector security. Ref. 72-00-26.
- b) Perform visual check of the J2 connector and pins for corrosion and wear. Clean and apply contact enhancer if required. Ref. 72-00-00.

600 HOUR ENGINE INSPECTION

14) T5 SYSTEM

- a) Carry out functional check at major inspection. Ref. 05-50-00.
- b) Check security of all accessible connections, clamps and brackets and for evidence of wear, chafing, cracks and corrosion.

600 HOUR ENGINE INSPECTION

COMPLIANCE RECORD

A/C REGISTRATION: _____

1. Exhaust Duct	2. Fire Seals	3. Tubing	4. Oil Filter	5. Inlet	6. Chip Detectors
7. Igniter System	8. Ignitors	9. Fuel Pump	10. Fuel Filter	11. Bleed Valve	12. FCU Override
13. Electrical	14. T5 System				

SIGNATORY PRINTED NAME	INITIAL	LICENSE NUMBER
1.		
2.		
3.		

12 MONTH INSPECTION COMPLETED IAW THE APPLICABLE STANDARDS OF AIRWORTHINESS:

DATE:	AME SIGNATURE:	LICENSE NUMBER:
AFTT:	PRINT NAME:	AMO #

ICC CERTIFICATION

PRINT NAME:	SIGNATURE:	LICENSE NUMBER:
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