
MUKAMALAH AVIATION COMPANY LIMITED (MAC)
LEONARDO S.p.A. AW139 AIRCRAFT INSPECTION PROGRAM
05-05-300 AW139 300 HOUR CHECK (NON-VIP AIRCRAFT ONLY)

Tail Number

SAP Order Number

Work Order Number

Instructions

1. Each listed inspection and/or maintenance function is to be performed in accordance with the publications listed in the current AW139 Technical Publications Index.
2. This inspection must be performed every 300 hours / 6 months on all non-VIP AW139 aircraft. The 50 Hr Inspection Checklist must be accomplished in conjunction with this inspection.
3. Each section / item must be initialed or stamped by the mechanic and inspector performing the inspection.
4. All personnel (mechanics, inspectors, shops, etc) who will be signing off any part of the check are required to enter their printed name, signature, company ID, and stamp imprint (or certificate number if work is not being performed by repair station) on the aircraft maintenance signature page provided with the work package.
5. Enter all discrepancies found and the corrective action taken on repair station or operator non-routine forms. On this inspection form, write **YES** or **NO** in the box under **Work Required** column for each section / item. If work was required and **YES** was written in the **Work Required** box, also indicate the Non-Routine number that the work was performed under.
6. At the completion of each inspection form, a qualified & authorized mechanic shall check the entire form for proper completion and then enter his signature, company ID number (or certificate number if work is not being performed by repair station), date and repair station certificate number (if applicable) in the space provided at the end of the form.
7. Enter the Man Hours for each completed line item in the MHRs column.
8. Items designated Clearance To Close (CTC) in the Inspectors column can be signed using the company ID number (or certificate number if work is not being performed by repair station) by any qualified mechanic.

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Tail Number	SAP Order Number	Work Order Number		
1. AIRCRAFT GENERAL – PRE CHECK AND OPENING				
ITEM	TASK	MECH	INSP	WORK REQD Yes / No
1. 71-24	Rear exhaust cowlings external surface and (if installed) louvers: Do a DVI for condition and damage. Ref. 39-A-71-11-00-00A-310A-A.			
2. Engine cowling primary latches	Ensure red paint exists on the fwd and aft faces of the primary cowling latches (not visible when the latches are closed, but visible when the latches are open).			
3. Float inflation bottles	Install float inflation bottle safety pins.			
AIRCRAFT GENERAL – PRE-CHECK AND OPENING COMPLETED				

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ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
2. FUSELAGE (INCL. UPPER DECK) & LANDING GEAR					
1. 25-79	AIRCRAFT WITH HEAVY BAGGAGE COMPARTMENT ONLY Heavy Duty Baggage Compartment: Do a GVI of the baggage bay liners and barrier panels for condition, corrosion, cracks and damage. Ensure all panels are firmly attached to structure and that panels are free from physical damage (baggage bay liners or barrier panels removal not required) Ref. 39-A-25-59-00-01A-310A-K Applicable _____ Not Applicable _____				
2. 32-08	NLG center lock attachment, lock pin and torque link attachments and anti-shimmy device: Do a DI for condition, security, damage and leaks (anti-shimmy device only), including electrical connector and its exposed wiring. Ref. 39-A-32-20-00-00A-31AA-A, 39-A-32-51-01-00A-31AA-A				
3. 32-56	MLG and NLG actuator bolts (Liebherr): Do a DI of the bolts for damage, condition, and cracks (bolt removal not required). Ref. 39-A-32-10-00-00A-31AB-A & 39-A-32-21-00-00A-31AA-A				
4. CP000-03	DI of Top External Airframe Equipments: Perform a detailed inspection of the equipments installed on the top side of the external airframe for corrosion, evidence of water intrusion and corrosion protection deterioration. (Removal of each equipment is required only if corrosion is found) Ref: DMC 39-A-20-80-00-02A-31AA-D				
5. CP000-04	DI of Bottom External Airframe Equipments: Perform a detailed inspection of the equipments installed on the bottom side of the external airframe for corrosion, evidence of water intrusion and corrosion protection deterioration. (Removal of each equipment is required only if corrosion is found) Ref: DMC 39-A-20-80-00-03A-31AA-D				
7. CP100-04	DI of Access Panels and Provision of Cabin Lower Structure: Perform a detailed inspection of the access panels and related provisions of the cabin lower structure for corrosion damage, salt contamination, evidence of water intrusion and corrosion protection deterioration. (removal of the access provisions is required) Ref: DMC 39-A-20-81-09-01A-31AA-D				

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ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
2. FUSELAGE (INCL. UPPER DECK) & LANDING GEAR					
8. CP100-17	VC of the Cockpit Floor: Perform a visual check of the cockpit floor for hardware contamination, evidence of water intrusion, sealant and corrosion protection deterioration. Ref: DMC 39-A-20-81-12-00A-311A-D				
9. CP100-20	VC of Main Fuel Tank Sump Areas: Perform a visual check of the main fuel tank sump areas for condition, corrosion and evidence of water intrusion. (removal of the fuel tank sump covers is required) Ref: DMC 39-A-20-81-06-01A-311A-D				
10. CP100-27	VC of Baggage Compartment Lower Structure: Perform a visual check of the baggage compartment lower structure and the related installed equipments for salt accumulation, evidence of water intrusion and corrosion protection deterioration. Ref: DMC 39-A-20-81-10-00A-311A-D				
11. CP400-03	DI of Upper Deck Equipments Interface Areas with the Structure: Perform a detailed inspection on the mating surfaces of the upper deck equipments with the structure for salt accumulation, water intrusion and corrosion. Examine also the main gearbox fittings and the related attachment bolts for salt accumulation and corrosion. Ref: DMC 39-A-20-82-07-00A-31AA-D & 39-A-20-82-04-01A-31AA-D				
12. MI53-02	Main Landing Gear LH Panel: General visual inspection for damage. Ref. 39-A-53-10-00-00A-310A-A				
13. MI53-03	Main Landing Gear RH Panel: General visual inspection for damage. Ref. 39-A-53-10-00-00A-310A-A				
14. Fuel panels in baggage compartment	Inspect LH and RH fuel panel profiles in the baggage compartment.				
15. Aircraft documents	Check that all required aircraft documents are on board (Aircraft Registration, Certificate of Airworthiness, Radio Station License, GACA Operations Specifications, Insurance Certificate, GACA Operating Certificate).				

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ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
2. FUSELAGE (INCL. UPPER DECK) & LANDING GEAR					
16. Cargo floor protector kit D139-799-017 STC SR02138SE	<p>Ref. Dart Aerospace instructions for continued airworthiness ICA-D139-799 Chapter 5.</p> <ol style="list-style-type: none"> 1. 5.1.1 All visible areas of the installation should be checked for mechanical damage (scratches, nicks, wear) and corrosion according to Table 5-1. Replace parts that have been damaged beyond limits per 5.1.16. 2. 5.1.8 If the D139-799-017 kit is installed, ensure D4130-5/-7/-9 panels are properly secured to the aircraft structure as shown in Figure 25-7a. Verify that the D4166-1 placard shown in Chapter 11 is installed and legible. Replace as required per 5.1.16. 3. 5.1.14 Inspect the condition of hardware for suitability for continued service. Check torques on all hardware per Table 5-2. Replace damaged hardware in accordance per 5.1.16. 4. 5.1.15 Report all damage in excess of indicated limits to Dart Aerospace Ltd. for evaluation and disposition. 5. 5.1.16 Replace damaged or worn parts per Chapter 25/52/62/91 of these instructions. <p>Installed _____ Not Installed _____</p>				
17. Cabin floor protector kit D139-799-019 STC SR02138SE	<p>Ref. Dart Aerospace instructions for continued airworthiness ICA-D139-799 Chapter 5.</p> <ol style="list-style-type: none"> 1. 5.1.1 All visible areas of the installation should be checked for mechanical damage (scratches, nicks, wear) and corrosion according to Table 5-1. Replace parts that have been damaged beyond limits per 5.1.16. 2. 5.1.9 If the D139-799-019 kit is installed, ensure D4130-1/-3 panels are properly secured to the aircraft structure as shown in Figure 25-7b. Replace as required per 5.1.16. 3. 5.1.14 Inspect the condition of hardware for suitability for continued service. Check torques on all hardware per Table 5-2. Replace damaged hardware in accordance per 5.1.16. 4. 5.1.15 Report all damage in excess of indicated limits to Dart Aerospace Ltd. for evaluation and disposition. 5. 5.1.16 Replace damaged or worn parts per Chapter 25/52/62/91 of these instructions. <p>Installed _____ Not Installed _____</p>				
FUSELAGE (INCL. UPPER DECK) & LANDING GEAR COMPLETED					

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3. TAILBOOM & TAIL ROTOR DRIVE		
ITEM	TASK	MECH
1. 53-38	<p>Tail assembly: Do a DI (hammer tapping check) for signs of debonding.</p> <p>Ref. 39-A-53-40-00-00A-31AJ-A</p>	RII
2. 55-04	<p>Tail plane spherical bearings (parts of rod assemblies): Do an OC for play (no removal and quantitative measurement necessary). If unusual play is felt, remove rod assembly and perform a DI for condition, damage and play (radial play check only) (maximum play allowed 0.3 mm - 0.0118 in).</p> <p>Ref. 39-A-55-11-00-00A-320A-A, 39-A-55-11-02-00A-31AA-B, 39-A-55-11-03-00A-31AA-B</p>	RII
3. 64-01	<p>Tail rotor blades continuity strip and damper bonding straps: Do a FC for electrical continuity. Includes a VC of components for damage, condition and security of attachment.</p> <p>Ref. 39-A-64-11-01-00A-365A-A</p>	
4. 64-28	<p>Rotating controls installation - Sliding tube/bushings: Do a DI for damage, condition and play (boot removal necessary).</p> <p>Ref. 39-A-64-31-00-00A-31AC-A and TMI 139-573</p>	RII
5. 64-29	Scissors removal	
	Rotating controls installation – Scissors: Do a DI for damage, condition and play.	RII
	Ref. 39-A-64-31-00-00A-31AB-A	RII
6. 64-31	Scissors reinstallation	
	Tail rotor blades erosion shield: Do a GVI for evidence of erosion and debonding.	
	Ref. 39-A-64-11-00-00B-310A-A.	
7. 65-16	Intermediate gearbox: Servicing by drain Includes check of low oil level sensor indication when oil is drained.	RII
	Ref. 39-A-12-13-02-00A-292A-A	
	Servicing by refill of oil	RII
	Ref. 39-A-12-13-02-00A-292A-A	

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3. TAILBOOM & TAIL ROTOR DRIVE		
ITEM	TASK	MECH
8. 65-20	<p>Tail gearbox: Servicing by drain Includes check of low oil level sensor indication when oil is drained.</p> <p>Ref. 39-A-12-13-03-00A-292A-A</p> <p>Servicing by refill of oil</p> <p>Ref. 39-A-12-13-03-00A-292A-A</p>	RII
9. 65-21	<p>Intermediate gearbox indicating system - Chip detector: Do a DI for condition and presence of debris.</p> <p>Ref. 39-A-65-42-00-00A-31AA-A or 39-B-65-42-00-00A-31AA-A (as applicable).</p> <p>NOTE: Perform this task in conjunction with task 65-16 (above).</p>	RII
10. 65-23	<p>Tail gearbox indicating system - Chip detector: Do a DI for condition and presence of debris.</p> <p>Ref. 39-A-65-43-00-00A-31AA-A or 39-B-65-43-00-00A-31AA-A (as applicable).</p> <p>NOTE: Perform this task in conjunction with task 65-20 (above).</p>	RII
11. 65-27	<p>Tail rotor drive line components: Do a GVI due to maintenance operations to exclude accidental damage.</p> <p>Ref 39-A-65-00-00-00A-310A-A</p>	
12. 65-54	<p>No. 1 Tail Rotor Drive Shaft: Do a detailed inspection for damage and condition.</p> <p>Note: applies to shaft part number 4G6500A00212.</p> <p>Ref: 39-B-65-11-01-00A-31AA-A</p>	
13. 67-10	<p>Tail rotor control bellcranks Y8 / Y9 and Y9 / Y10: Do a DI for evidence of play between lever and support.</p> <p>Ref. 39-A-67-20-00-00A-31AA-A</p>	RII
14. CP300-01	<p>DI of Tail Boom Lower and Internal Structure: Perform a detailed inspection of tail boom lower and internal structure and related installed equipments for corrosion, evidence of water intrusion, salt accumulation and corrosion protection deterioration.</p> <p>Ref: DMC 39-A-20-84-04-00A-31AA-D</p>	

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3. TAILBOOM & TAIL ROTOR DRIVE					
15. CP300-04	VC of the Tail Fin: Perform a visual check of the tail fin for evidence of corrosion, water intrusion, salt accumulation and corrosion protection deterioration. Ref: DMC 39-A-20-84-01-00A-311A-D				
16. CP300-05	VC of Tail Rotor Drive Line in the Upper Deck Area: Perform a visual check of the tail rotor shafts, hardware, dampers and bearings for condition, contamination, sealant and corrosion protection deterioration. Ref: DMC 39-A-20-84-01-01A-311A-D				
17. CP400-04	VC of Tail Rotor Drive Line in the Tail Boom and Tail Fin Area: Perform a visual check of the tail rotor shafts, hardware, dampers and bearings for condition, contamination, sealant and corrosion protection deterioration. Ref: DMC 39-A-20-82-03-01A-311A-D & 39-A-20-82-07-01A-311A-D				
18. CP400-08	DI of the Tail Rotor Head and Blades: Perform a detailed inspection of the tail rotor head and blades for evidence of water intrusion, corrosion damage, paint, and corrosion protection deterioration. Ref: DMC 39-A-20-82-02-00A-31AA-D				
19. CP400-12	VC of Tailboom Upper Structure: Perform a visual check of the tail boom upper structure for evidence of corrosion, water intrusion, salt accumulation and and corrosion protection deterioration. Ref: DMC 39-A-20-82-03-00A-311A-D				
20. MI53-01	TGB Fitting (fasteners in skin and spar): Detailed inspection for cracks (both internal and external sides). Ref. 39-A-53-40-00-00A-31AC-A				
21. MI53-05	Tail Structure Assembly (tail cone RH/LH panels upper and lower joint): Detailed inspection for cracks (both internal and external sides). Ref. 39-A-53-40-00-00A-31AB-A				
22. MI53-06	Tail Structure Assembly (tail cone joint STA 11020): Detailed inspection for cracks (both internal and external sides). Ref. 39-A-53-40-00-00A-31AB-A				

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3. TAILBOOM & TAIL ROTOR DRIVE					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
23. MI64-06	ELASTOMERIC TAIL ROTOR DAMPERS ONLY Tail Rotor Damper (part number 3G6420V00851): Do a detailed inspection of body for cracks in the elastomer. Ref. 39-C-64-21-00-00A-31AA-A. Applicable _____ Not Applicable _____				
TAILBOOM & TAIL ROTOR DRIVE COMPLETED					

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4. MAIN ROTOR & GEARBOX					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. 21-02	BELT P/N 1768-60 ONLY Compressor drive belt: Do a DI to check belt tension and condition (belt frequency tension meter required). Do a DI to check for cracks and condition. Ref. 39-A-21-90-22-00A-31AA-K Applicable _____ Not Applicable _____		RII		
2. 62-01	Main rotor blades continuity strip and damper bonding straps: Do a FC for electrical continuity. Includes a VC for damage, condition, security of attachment and debonding (strips only). Ref. 39-A-62-11-01-00A-365A-A				
3. 62-03	Main rotor blade tip and mass balance weight pocket area: Do a GVI for debonding and damage (blade removal not required). Ref. 39-A-62-11-00-00A-310A-A				
4. 62-26	Rotating controls installation - Swashplate duplex bearing: Do an OC to detect bearing roughness (pitch change link end/upper boot lower end/scissors disconnection necessary). Ref. 39-A-62-31-06-00A-320A-A.		RII		
5. 62-40	Removal of rotating scissors assemblies				
	Rotating controls installation - Lower half scissors spherical bearings: Do a DI for condition, damage and play (removal of rotating scissors assemblies required) (axial play check only) Ref. 39-A-62-31-02-00A-31AA-B; 39-C-62-31-02-00A-31AA-B.		RII		
	Reinstallation of rotating scissors assemblies		RII		
6. 63-33	Rotor brake pads: Do a DI for wear. Discard pads if the pad thickness is 2 mm (0.079 in) or if the pad and backing plate is 8 mm (0.315 in) or lower. Ref. 39-A-63-51-05-01A-361A-A		RII		
7. 63-34	Rotor brake disc: Do a DI for wear. Discard disc if thickness is 9 mm (0.354 in) or lower. Discard disk each two pad replacements or after emergency braking activation. Ref. 39-A-63-51-02-00A-361A-A				

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4. MAIN ROTOR & GEARBOX					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
8. CP400-06	DI of the Main Rotor Head and Blades: Perform a detailed inspection of the main rotor head and blades for evidence of water intrusion, corrosion damage, paint, and corrosion protection deterioration. Ref: DMC 39-A-20-82-01-00A-31AA-D				
9. MI62-06	N/A MAIN ROTOR ROTATING SWASHPLATE P/N 3G6230A00333 Main rotor rotating swashplate: Inspection for integrity and loss of torque of the bolts and ring retaining the duplex bearing. Ref. 39-A-62-31-06-00A-31AA-A Applicable _____ Not Applicable _____		RII		
MAIN ROTOR & GEARBOX COMPLETED					

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5. ENGINE & POWERPLANT					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. 71-14	Engine bay drains: Do a OC for evidence of blockage. Ref. 39-A-71-71-00-00A-320A-A	LH			
		RH			
2. 71-26	<p>S/N 41547 & ONWARD, 31850 & ONWARD</p> <p>IBF left upper/lower filter assy: Cleaning from any dirt particles, including the oil application on complete surface and seal inspection for integrity (filter removal required).</p> <p>Strike off the next available number (1 thru to 15) on the filter data plates. If no. 15 has already been struck off, the filter assembly must be replaced. Tick below next to the numbers which are struck off:</p> <p>Top filter panel (P/N 122300-101): 1__ 2__ 3__ 4__ 5__ 6__ 7__ 8__ 9__ 10__ 11__ 12__ 13__ 14__ 15__ Side filter panel (P/N 122350-101): 1__ 2__ 3__ 4__ 5__ 6__ 7__ 8__ 9__ 10__ 11__ 12__ 13__ 14__ 15__</p> <p>Ref. 39-A-71-61-05-01A-200A-K / 39-A-71-61-05-03A-200A-K</p>				
	<p>S/N 41547 & ONWARD, 31850 & ONWARD</p> <p>IBF right upper/lower filter assy: Cleaning from any dirt particles, including the oil application on complete surface and seal inspection for integrity (filter removal required).</p> <p>Strike off the next available number (1 thru to 15) on the filter data plates. If no. 15 has already been struck off, the filter assembly must be replaced. Tick below next to the numbers which are struck off:</p> <p>Top filter panel (P/N 122300-101): 1__ 2__ 3__ 4__ 5__ 6__ 7__ 8__ 9__ 10__ 11__ 12__ 13__ 14__ 15__ Side filter panel (P/N 122350-101): 1__ 2__ 3__ 4__ 5__ 6__ 7__ 8__ 9__ 10__ 11__ 12__ 13__ 14__ 15__</p> <p>Ref. 39-A-71-61-05-01A-200A-K / 39-A-71-61-05-03A-200A-K</p>				
4. 71-28	<p>S/N 41547 & ONWARD, 31850 & ONWARD</p> <p>IBF LH/RH Differential Pressure Switch: Do the FC for correct functioning</p> <p>Ref: 39-A-71-61-05-09A-340A-K</p>				

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5. 71-31	S/N 41547 & ONWARD, 31850 & ONWARD IBF actuator bundles, connectors, circuit breakers and cockpit indicator switch: Do a GVI to detect corrosion, overheating or mechanical damage of bundles and condition, safety and security of connectors Ref: 39-A-71-61-00-00A-310A-K				
6. 71-32	S/N 41547 & ONWARD, 31850 & ONWARD IBF LH filter maintenance aid: Do a DI for discoloration affecting readability, cracks, deformation, missing or damaged components. Ref: 39-A-71-61-05-10A-31AA-K				
7. 71-33	S/N 41547 & ONWARD, 31850 & ONWARD IBF RH filter maintenance aid: Do a DI for discoloration affecting readability, cracks, deformation, missing or damaged components Ref: 39-A-71-61-05-10A-31AA-K				
8. 71-37	S/N 41547 & ONWARD, 31850 & ONWARD IBF actuators and switches: Do a DI for corrosion, cracks, and scratches. Ref: 39-A-71-61-05-08A-31AA-K Opportune in conjunction with upper and lower filters cleaning Filter Cleaned: YES _____ NO _____				
9. 71-38	S/N 41547 & ONWARD, 31850 & ONWARD IBF brackets, frames/fairings and by-pass doors: Do a DI for corrosion, cracks, scratches, deformation and deterioration of coating. Ref: 39-A-71-61-05-07A-31AA-K Opportune in conjunction with upper and lower filters cleaning Filter Cleaned: YES _____ NO _____				
10. 76-01	Power control system: Do an OC in order to verify the correct operation and setting procedure. Ref. 39-A-76-11-00-00A-320B-A.		RII		

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5. ENGINE & POWERPLANT					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
11. 78-01	Exhaust duct and external insulation including firewall, support and frame: Do a DI for condition and damage (removal of central support structure between engine cowlings necessary). Includes GVI of firewalls external surface and seals. Ref. 39-A-78-10-00-00A-028A-A.	LH	RII		
	Applicable _____ Not Applicable _____	RH	RII		
12. 78-02	Exhaust duct: Do a DI for presence of cracks near the support bracket. Ref. 39-A-78-10-00-00A-31AB-A.				
13. #1 Engine Inlet Barrier Filter – Filter Assy Servicing	S/N 41384 & 41409 ONLY i) Remove both filter panels (AFS-AW139-IBF-ICA 8.3) ii) Clean filter assemblies using only the methods and materials defined in AFS-AW139-IBF-ICA 7.3 (only AFS Air Filter Cleaner and low pressure water may be used). iii) Allow filter assemblies to fully dry (AFS-AW139-IBF-ICA 7.3.3) iv) Strike off the next available number (1 thru to 15) on the filter data plates. If no. 15 has already been struck off, the filter assembly must be replaced. Tick below next to the numbers which are struck off: Top filter panel (P/N 122300-101): 1____ 2____ 3____ 4____ 5____ 6____ 7____ 8____ 9____ 10____ 11____ 12____ 13____ 14____ 15____ Side filter panel (P/N 122350-101): 1____ 2____ 3____ 4____ 5____ 6____ 7____ 8____ 9____ 10____ 11____ 12____ 13____ 14____ 15____ v) Re-oil filter using AFS approved filter oil (AFS-AW139-IBF-ICA 7.3.4). Applicable _____ Not Applicable _____				
14. #1 Engine Inlet Barrier Filter – Filter Assy Inspection	S/N 41384 & 41409 ONLY Visually inspect all components (including seals and fasteners) checking for the following: filter media for tears, punctures, uneven or damaged pleats; seals for tears/damage; plenum components for corrosion, cracks, distortions near holes, and check for missing or damaged fasteners. i) Inspect filter assys per AFS-AW139-IBF-ICA 8.3.1.2. ii) Inspect filter seals per AFS-AW139-IBF-ICA 8.3.2.2. iii) Inspect plenum assy per AFS-AW139-IBF-ICA 8.4.2.2. Applicable _____ Not Applicable _____				

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5. ENGINE & POWERPLANT					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
15. #1 Engine Inlet Barrier Filter – Structural Components Inspection	<p>S/N 41384 & 41409 ONLY</p> <p>Visually inspect all structural Inlet Barrier Filter components including the following: fore and aft frames, filter frames, Filter Maintenance Aid bracket, lower supports, fairings, covers, bypass doors, and actuator supports.</p> <p>i) Inspect bypass mechanism per AFS-AW139-IBF-ICA 8.4.3.2. ii) Inspect bypass door seal per AFS-AW139-IBF-ICA 8.4.4.2. Applicable _____ Not Applicable _____</p>				
16. #1 Engine Inlet Barrier Filter – Systems & Electrical Components Visual Inspection	<p>S/N 41384 & 41409 ONLY</p> <p>Visually inspect systems and electrical components including the following: wiring, connectors, backshells, circuit breaker, cockpit indicator/switch, differential pressure switch, filter maintenance aid, and actuator.</p> <p>i) Inspect circuit breaker per AFS-AW139-IBF-ICA 8.5.1.2 b. ii) Inspect cockpit indicator/switch per AFS-AW139-IBF-ICA 8.5.2.2 b. iii) Inspect differential pressure switch per AFS-AW139-IBF-ICA 8.5.3.2. iv) Inspect filter maintenance aid per AFS-AW139-IBF-ICA 8.5.4.2. v) Inspect actuator per AFS-AW139-IBF-ICA 8.5.5.2. vi) Inspect wiring, wiring harness, connectors, backshells, and circuit breaker per AFS-AW139-IBF-ICA 8.5.6.2 Applicable _____ Not Applicable _____</p>				
17. #1 Engine Inlet Barrier Filter – Systems & Electrical Components Functional Check	<p>S/N 41384 & 41409 ONLY</p> <p>Functionally check the following components: circuit breaker, cockpit indicator/switch, differential pressure switch, filter maintenance aid, and actuator.</p> <p>i) Function check differential pressure switch per AFS-AW139-IBF-ICA 8.5.3.5. ii) Function check filter maintenance aid per AFS-AW139-IBF-ICA 8.5.4.7. iii) Function check the circuit breaker and cockpit indicator switch per AFS-AW139-IBF-ICA 8.5.2.5 iv) Function check the actuator per AFS-AW139-IBF-ICA 8.5.5.7. Applicable _____ Not Applicable _____</p>				
18. #1 Engine Inlet Barrier Filter – Reassembly & Closure.	<p>S/N 41384 & 41409 ONLY</p> <p>i) Reinstall filter panel assemblies per AFS-AW139-IBF-ICA 8.3.1.10. ii) Reinstall any panels and fairings removed for access to the system. iii) Reset the filter maintenance aid by pressing the yellow button on the lower side of the indicator (AFS-AW139-IBF-ICA 8.5.4.5). Applicable _____ Not Applicable _____</p>				

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Tail Number	SAP Order Number	Work Order Number			
5. ENGINE & POWERPLANT					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
19. #2 Engine Inlet Barrier Filter – Filter Assy Servicing	<p>S/N 41384 & 41409 ONLY</p> <ul style="list-style-type: none"> i) Remove both filter panels (AFS-AW139-IBF-ICA 8.3) ii) Clean filter assemblies using only the methods and materials defined in AFS-AW139-IBF-ICA 7.3 (only AFS Air Filter Cleaner and low pressure water may be used). iii) Allow filter assemblies to fully dry (AFS-AW139-IBF-ICA 7.3.3) iv) Strike off the next available number (1 thru to 15) on the filter data plates. If no. 15 has already been struck off, the filter assembly must be replaced. Tick below next to the numbers which are struck off: Top filter panel (P/N 122300-101): 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> Side filter panel (P/N 122350-101): 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> v) Re-oil filter using AFS approved filter oil (AFS-AW139-IBF-ICA 7.3.4). <p>Applicable _____ Not Applicable _____</p>				
20. #2 Engine Inlet Barrier Filter – Filter Assy Inspection	<p>S/N 41384 & 41409 ONLY</p> <p>Visually inspect all components (including seals and fasteners) checking for the following: filter media for tears, punctures, uneven or damaged pleats; seals for tears/damage; plenum components for corrosion, cracks, distortions near holes, and check for missing or damaged fasteners.</p> <ul style="list-style-type: none"> i) Inspect filter assys per AFS-AW139-IBF-ICA 8.3.1.2. ii) Inspect filter seals per AFS-AW139-IBF-ICA 8.3.2.2. iii) Inspect plenum assy per AFS-AW139-IBF-ICA 8.4.2.2. <p>Applicable _____ Not Applicable _____</p>				
21. #2 Engine Inlet Barrier Filter – Structural Components Inspection	<p>S/N 41384 & 41409 ONLY</p> <p>Visually inspect all structural Inlet Barrier Filter components including the following: fore and aft frames, filter frames, Filter Maintenance Aid bracket, lower supports, fairings, covers, bypass doors, and actuator supports.</p> <ul style="list-style-type: none"> i) Inspect bypass mechanism per AFS-AW139-IBF-ICA 8.4.3.2. ii) Inspect bypass door seal per AFS-AW139-IBF-ICA 8.4.4.2. <p>Applicable _____ Not Applicable _____</p>				

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Tail Number	SAP Order Number	Work Order Number			
5. ENGINE & POWERPLANT					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
22. #2 Engine Inlet Barrier Filter – Systems & Electrical Components Visual Inspection	<p>S/N 41384 & 41409 ONLY</p> <p>Visually inspect systems and electrical components including the following: wiring, connectors, backshells, circuit breaker, cockpit indicator/switch, differential pressure switch, filter maintenance aid, and actuator.</p> <ul style="list-style-type: none"> i) Inspect circuit breaker per AFS-AW139-IBF-ICA 8.5.1.2 b. ii) Inspect cockpit indicator/switch per AFS-AW139-IBF-ICA 8.5.2.2 b. iii) Inspect differential pressure switch per AFS-AW139-IBF-ICA 8.5.3.2. iv) Inspect filter maintenance aid per AFS-AW139-IBF-ICA 8.5.4.2. v) Inspect actuator per AFS-AW139-IBF-ICA 8.5.5.2. vi) Inspect wiring, wiring harness, connectors, backshells, and circuit breaker per AFS-AW139-IBF-ICA 8.5.6.2 <p>Applicable _____ Not Applicable _____</p>				
23. #2 Engine Inlet Barrier Filter – Systems & Electrical Components Functional Check	<p>S/N 41384 & 41409 ONLY</p> <p>Functionally check the following components: circuit breaker, cockpit indicator/switch, differential pressure switch, filter maintenance aid, and actuator.</p> <ul style="list-style-type: none"> i) Function check differential pressure switch per AFS-AW139-IBF-ICA 8.5.3.5. ii) Function check filter maintenance aid per AFS-AW139-IBF-ICA 8.5.4.7. iii) Function check the circuit breaker and cockpit indicator switch per AFS-AW139-IBF-ICA 8.5.2.5 iv) Function check the actuator per AFS-AW139-IBF-ICA 8.5.5.7. <p>Applicable _____ Not Applicable _____</p>				
24. #2 Engine Inlet Barrier Filter – Reassembly & Closure.	<p>S/N 41384 & 41409 ONLY</p> <ul style="list-style-type: none"> i) Reinstall filter panel assemblies per AFS-AW139-IBF-ICA 8.3.1.10. ii) Reinstall any panels and fairings removed for access to the system iii) Reset the filter maintenance aid by pressing the yellow button on the lower side of the indicator (AFS-AW139-IBF-ICA 8.5.4.5). <p>Applicable _____ Not Applicable _____</p>				
25. 72-30-05	<p>Compressor Rotor, First Stage: Perform a visual check for FOD, erosion, and overall condition of the engine compressor rotor, first stage area.</p> <p>Ref: PWC EMM 72-30-05</p>		RII		
ENGINE & POWERPLANT COMPLETED					

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Tail Number	SAP Order Number	Work Order Number			
6. AVIONIC & ELECTRICAL					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. 24-21	AC ground fault interrupter: Do an OC of the ground fault interrupter. Ref. 39-A-24-65-00-00A-320A-K or 39-A-24-67-00-00A-320A-K as applicable. Applicable _____ Not Applicable _____				
2. 31-04	ELT transmitter and antenna: Do an OC to evaluate the correct transmission of distress signal. Ref. 39-A-25-61-00-00A-320A-K Applicable _____ Not Applicable _____				
3. 31-05	MPFR CVR: Do an OC to evaluate proper recording of ICS channels and cockpit area microphone. Ref. 39-A-31-31-00-00A-320A-A				
4. 31-06	MPFR underwater beacon battery voltage: Do a FC to check that battery voltage is in excess of a specified value. Ref. 39-A-31-31-07-01A-340A-A				
5. 31-10	MFPR ULB Ops check: Do an Operational Check to verify that the underwater locator beacon operates correctly. Ref. 39-A-31-31-07-00A-340A-A.				
6. 32-12	Landing gear control valve: Do a GVI to detect corrosion or mechanical damage of bundles and condition, safety and security of connectors (access from helicopter belly). Ref. 39-A-32-31-02-00A-310A-A				
7. CM24-03	Electrical Power: OC of GCU over-voltage protection function. Ref. 39-A-24-31-00-00A-320A-A				
8. CM95-02	AEROSEKUR FLOTATION SYSTEM ONLY Flotation System (Aerosekur): OC of the K41 and K42 relays to verify that the contacts are not failed in closed position Ref. 39-A-95-61-00-00A-320A-K Applicable _____ Not Applicable _____				

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Tail Number	SAP Order Number	Work Order Number			
6. AVIONIC & ELECTRICAL					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
9. CM95-03	AEROSEKUR FLOTATION SYSTEM CONTROL PANEL P/N 3G9560V00553 & P/N 3G9560V00552 ONLY Flotation System (Aerosekur): OC of the floatation switches P/N 3G9560V01151 or P/N 3G9560V02951 to verify that are not failed in closed position Ref. 39-A-95-61-00-00A-320A-K Applicable _____ Not Applicable _____		RII		
10. CM95-04	AEROSEKUR FLOTATION SYSTEM CONTROL PANEL P/N 3G9560V00553 & P/N 3G9560V00552 ONLY Flotation System (Aerosekur): OC of the guarded arm and pushbutton switches located on the pilot and co-pilot collective grip to verify that are not failed in closed position Ref. 39-A-95-61-00-00A-320A-K Applicable _____ Not Applicable _____		RII		
11. CM95-05	AEROSEKUR FLOTATION SYSTEM CONTROL PANEL P/N 3G9560V00553 & P/N 3G9560V00552 ONLY Flotation System (Aerosekur): OC of the Emergency Float Control Panel to verify that the ARM switch contact and/or Lamp Test switch contact are not failed in closed position Ref. 39-A-95-61-00-00A-320D-K Applicable _____ Not Applicable _____		RII		
12. CM95-06	APPLIES TO AIRCRAFT WITH DART FLOTATION SYSTEM ONLY. Flotation System (Dart): OC of the K330 and K331 relays to verify that the contacts are not failed in closed position. Ref: 39-C-95-61-00-01A-320A-K Applicable _____ Not Applicable _____				
13. Cabin communication systems	Following reinstallation of interior trim panels (headliner and PSU), do a FC of all cabin communication systems to include polycom.				
AVIONIC & ELECTRICAL COMPLETED					

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Tail Number

SAP Order Number

Work Order Number

7. AIRCRAFT GENERAL – CLOSEOUT

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. Access panels	<p>Install all access panels.</p> <p>Refer to data module 39-A-06-41-00A-010A-A of the Maintenance Publication (39-A-AMP-00-X) for the data module codes of the applicable install procedures.</p> <p>Refer to panel listing and clearance-to-close on this checklist.</p>				
2. Access doors	<p>Close the access doors.</p> <p>Refer to data module 39-A-06-41-00A-010A-A of the Maintenance Publication (39-A-AMP-00-X).</p>				
3. Float inflation bottles	Remove float inflation bottle safety pins and stow them in their appropriate storage bags on the aircraft.				
AIRCRAFT GENERAL – CLOSEOUT COMPLETED					

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Tail Number

SAP Order Number

Work Order Number

8. WORK COMPLETION

TASK	MECH	INSP	WORK REQD Yes / No
Ensure the 50 Hour Checklist has been completed in conjunction with this checklist.			
Complete final walkaround on aircraft to ensure all panels have been reinstalled.			
Verify completion of all associated Routine / Non-Routine work forms.			
Record the total man-hours for all checklist items: _____			

I certify that the 300 Hour Check (non-VIP Aircraft) has been performed on aircraft:

(tail number) _____, aircraft total time _____, in accordance with
the Mukamalah Aviation Company Leonardo AW139 Aircraft Inspection Program Revision ___ and Operator Maintenance
Manual Revision ___ and the aircraft has been determined to be in airworthy condition with respect to the work performed.

Date

Mechanic's Signature

Company ID No. or
Cert. No.

Repair Station Cert. No.
(if applicable)

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PANELS NORMALLY REMOVED DURING THIS INSPECTION			
PANEL NUMBER	OPENED BY	CLEARANCE TO CLOSE / DATE	CLOSED BY / DATE
130AL (Belly Panel for T/R Friction)			
131AL (LH Under Nose/Float Cover)			
132AR (RH Under Nose/Float Cover)			
140AT (Roof Fwd Small Blue Panel, Under Actuators)			
140BT (Roof Fwd. Large Blue Panel, Actuator Removal)			
141AL			
142AR			
150AL			
150AT (Fwd. Round Blue Ceiling Panel)			
150CT (XMSN Drain Pan)			
150DT (Fwd Split Ceiling Panel)			
151BL (LH Hinge Ceiling Panel, Lights)			
151DL (Aft Split Ceiling Panel)			
152AR			
152CR (RH Hinge Ceiling Panel, Lights)			
152DR			
160CL (Aft Cabin Large Wall Lining, Cabin/Fuel Tank)			
160GL (Baggage Fwd. Vertical Wall, Baggage/Fuel Tank)			
160LL			
160ML			
161AL (LH Upper Fuel Profile Panel)			
180AT (Aft Baggage Ceiling Panel, 3 of 3)			
180BL (Baggage Aft Floor)			
180EL			
180FL (Fwd Baggage Floor, Avionic Access)			
181AL			
181BL			
181DL (LH Baggage Wall Lining, Over Door)			
183AL			

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PANELS NORMALLY REMOVED DURING THIS INSPECTION			
PANEL NUMBER	OPENED BY	CLEARANCE TO CLOSE / DATE	CLOSED BY / DATE
190AL (Aft Baggage Wall Lining, Fuselage/T-Boom)			
213AL			
310AL (T-Boom Drive Shaft Cover, Long)			
310BL (T-Boom Lwr Access Cover, Yaw1/Yaw2)			
311AL (LH T-Boom Upper Fitting Cover, 200HR)			
311BL (LH T-Boom Middle Fitting Cover, 200HR)			
311CL (LH T-Boom Lwr Fitting Cover, 200HR)			
313AL (T-Boom Vertical/Middle Drive Shaft Cover, 45 Degree)			
360AL (T-Boom Vertical Tail Camera Cover/ Lens)			
360AT (T-Boom Upper Fwd Cowl)			
360BT			
360CL (T-Boom Aft Vertical Cowl)			
360CT (T-Boom Upper Aft Cowl, Rotating Beacon Attached)			
360DL (T-Boom Lwr Vertical Fin Cowl, Wraps Stabilizer)			
360DT			
461AL (#1 Eng Cowl, IBF Filt Attached)			
462AR (#2 Eng Cowl, IBF Filt Attached)			
471AL (#1 Eng Aft Cowl, Exh Passes Through)			
472AR (#2 Eng Aft Cowl, Exh Passes Through)			
473AL (XMSN Fwd Sliding Cowl, Large)			
474BL (Top Center Fwd Eng Cowl)			
480AL (Top Center Aft Eng Cowl, Fire Bottle Access)			
740AL (LH Fwd Sponson Cover, Raft)			
740BL (LH Aft Sponson Cover, Raft)			
750AR (RH Fwd Sponson Cover, Raft)			
750BR (RH Aft Sponson Cover, Raft)			
BAGGAGE INTERIOR PANELS			
120AL			
120AR			
130ZL			

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PANELS NORMALLY REMOVED DURING THIS INSPECTION			
PANEL NUMBER	OPENED BY	CLEARANCE TO CLOSE / DATE	CLOSED BY / DATE
131BL			
131CL			
132BR			
132CR			
140AL (Collective Jackshaft Cover)			
140BL			
141BL (LH Fwd Door Post Lining, Control Tube Access)			
141CL			
141DL			
141EL			
141FL			
141GL			
141HL			
142BR (RH Fwd Door Post Lining, Control Tube Access)			
142CR			
142DR			
142ER			
142FR			
150BT (Aft Round Blue Panel, Access to XMSN Drain Pan)			
150ZT (Pilot/Co-Pilot Center Overhead C.B. Trim Panel)			
151AL			
151CL			
151EL			
151FL			
151GL			
151HL			
152BR (Emergency Landing Gear Reset Cover)			
152ER			
152FR			
160AL			

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PANELS NORMALLY REMOVED DURING THIS INSPECTION			
PANEL NUMBER	OPENED BY	CLEARANCE TO CLOSE / DATE	CLOSED BY / DATE
160AT (Baggage Fwd Ceiling Panel, 1 of 3)			
160BL			
160BT (Baggage Middle Ceiling Panel, 2 of 3)			
160DL			
160EL			
160FL			
160HL			
160NL			
160PL			
161BL			
161CL			
161DL			
161EL			
162AR (RH Upper Fuel Profile Panel)			
162BR			
162CR			
162DR			
180AL			
180CL (Baggage LH Aft Upper Roof Lining, Smoke Detector)			
180DR (Baggage Rh Aft Upper Roof Lining)			
180ER (Baggage RH Aft Wall Lining, Over Door)			
180GL			
181CL			
182AR			
182BR			
182CR			
182DR (RH Baggage Wall)			
183BL			
184AR			
184BR			

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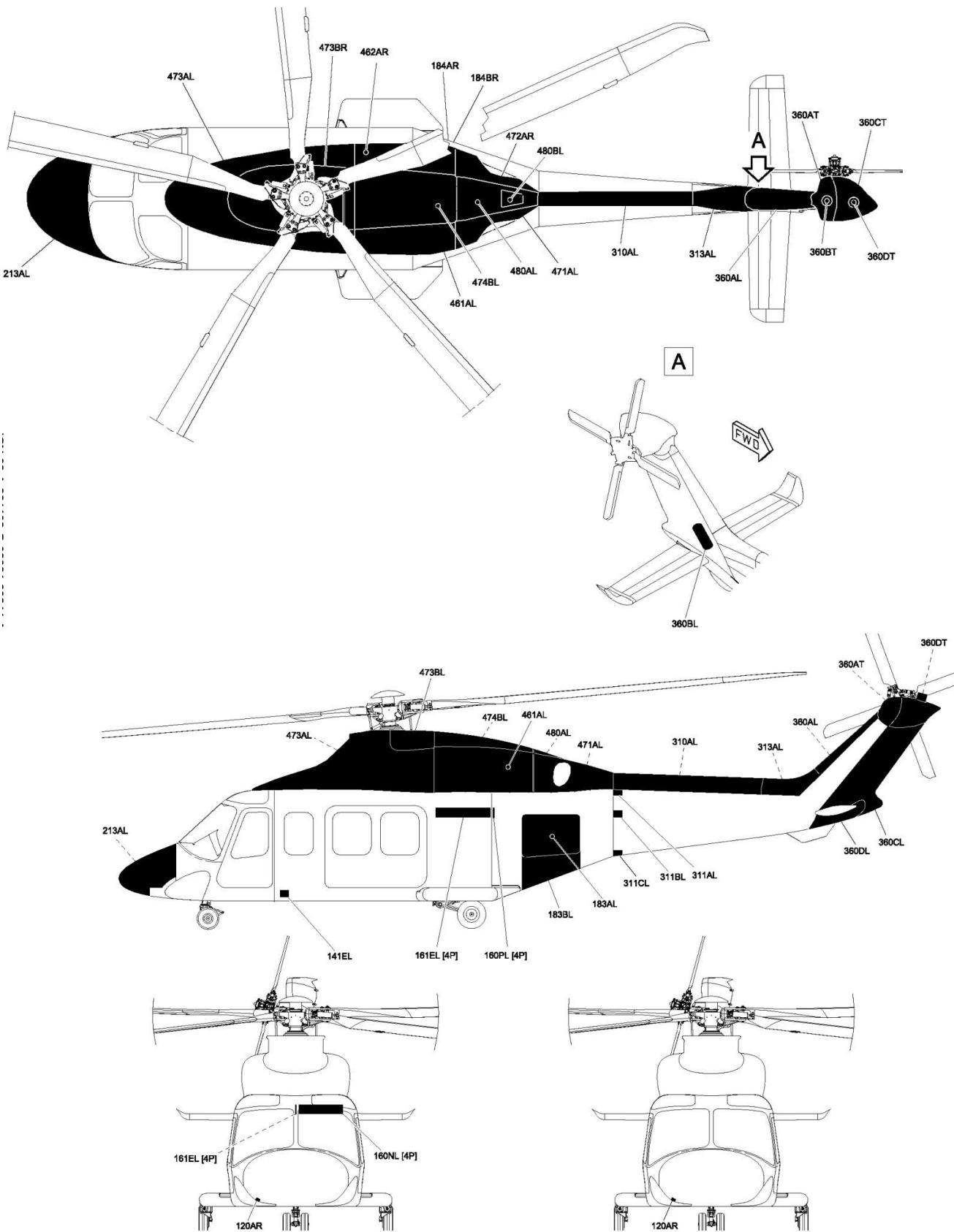
PANELS NORMALLY REMOVED DURING THIS INSPECTION			
PANEL NUMBER	OPENED BY	CLEARANCE TO CLOSE / DATE	CLOSED BY / DATE
312AR (RH T-Boom Upper Fitting Cover, 200HR)			
312BR (RH T-Boom Middle Fitting Cover, 200HR)			
312CR (RH T-Boom Lwr Fitting Cover, 200HR)			
360BL (IGB Access)			
473BL			
473BR			
474AL (#1 Eng Lwr Access Panel, Fuel Nozzle/Igniter)			
474AR (#2 Eng Lwr Access Panel, Fuel Nozzle/Igniter)			
480BL			
961AL			
961BL			
962AR			
962BR			
974AL			
974BL			
974BR			
CABIN FLOOR IPD 39-A-53-27-03-01A-941A-A ITEM 7			
CABIN FLOOR IPD 39-A-53-27-03-01A-941A-A ITEM 13			
CABIN FLOOR IPD 39-A-53-27-03-01A-941A-A ITEM 20			

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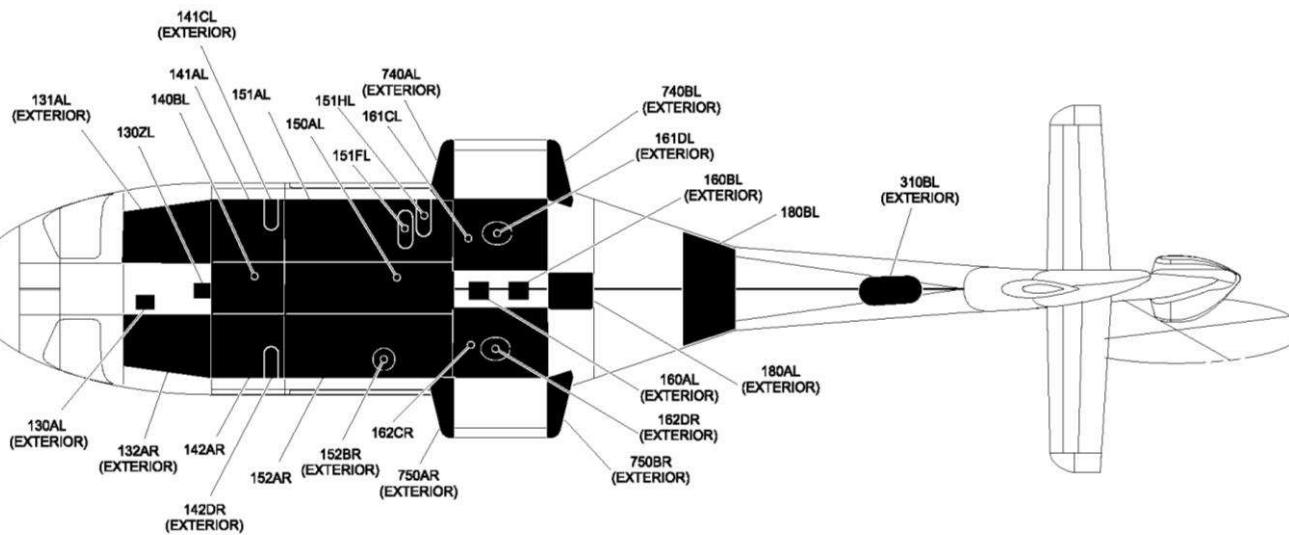
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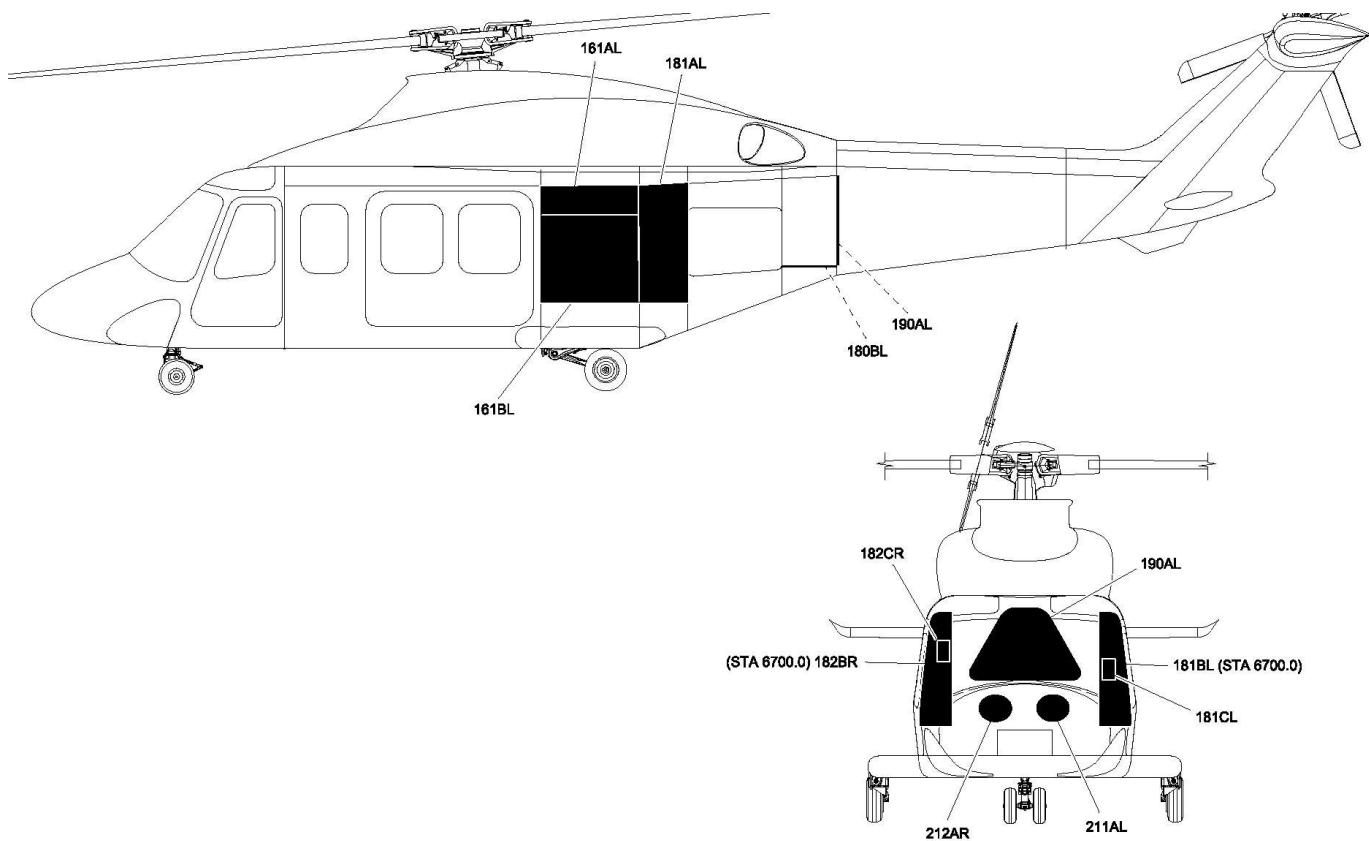
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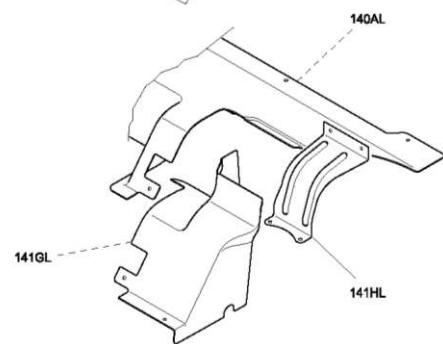
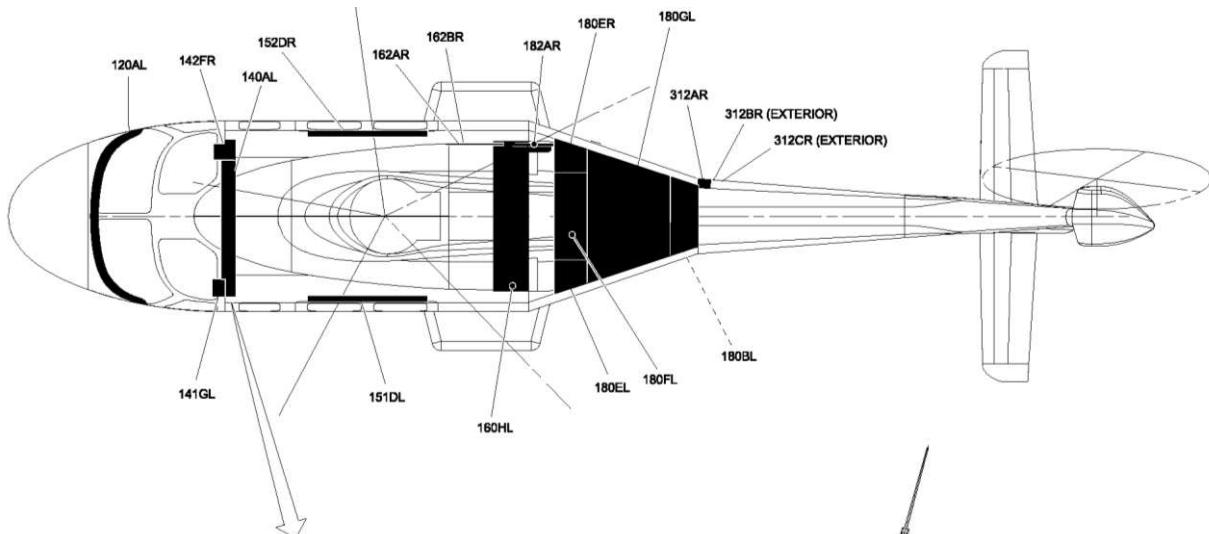
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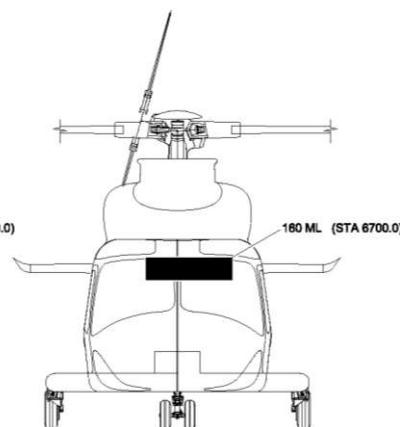
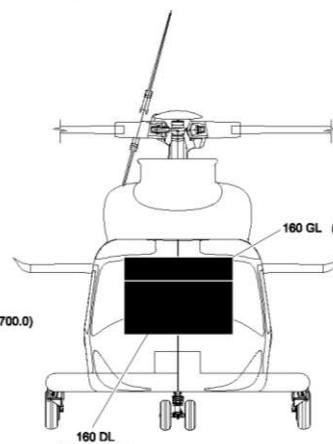
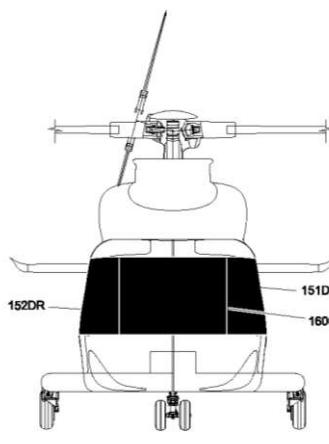
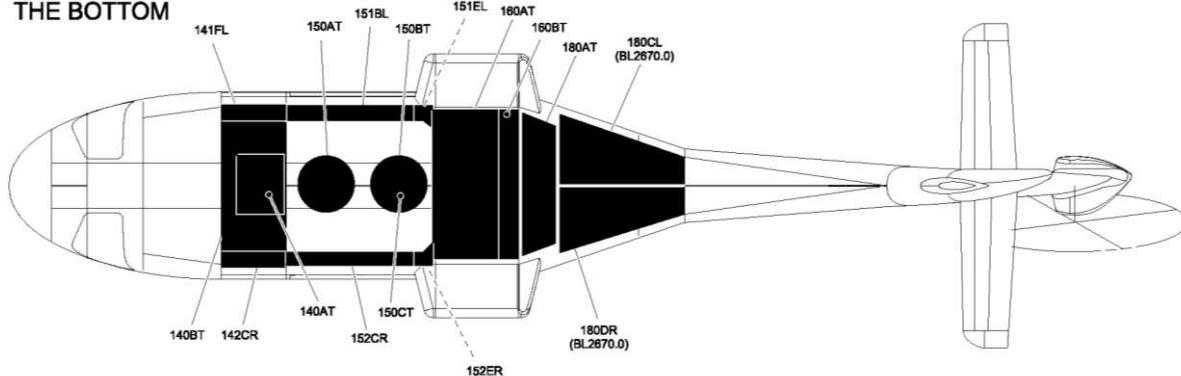
**VIEW FROM
THE BOTTOM**



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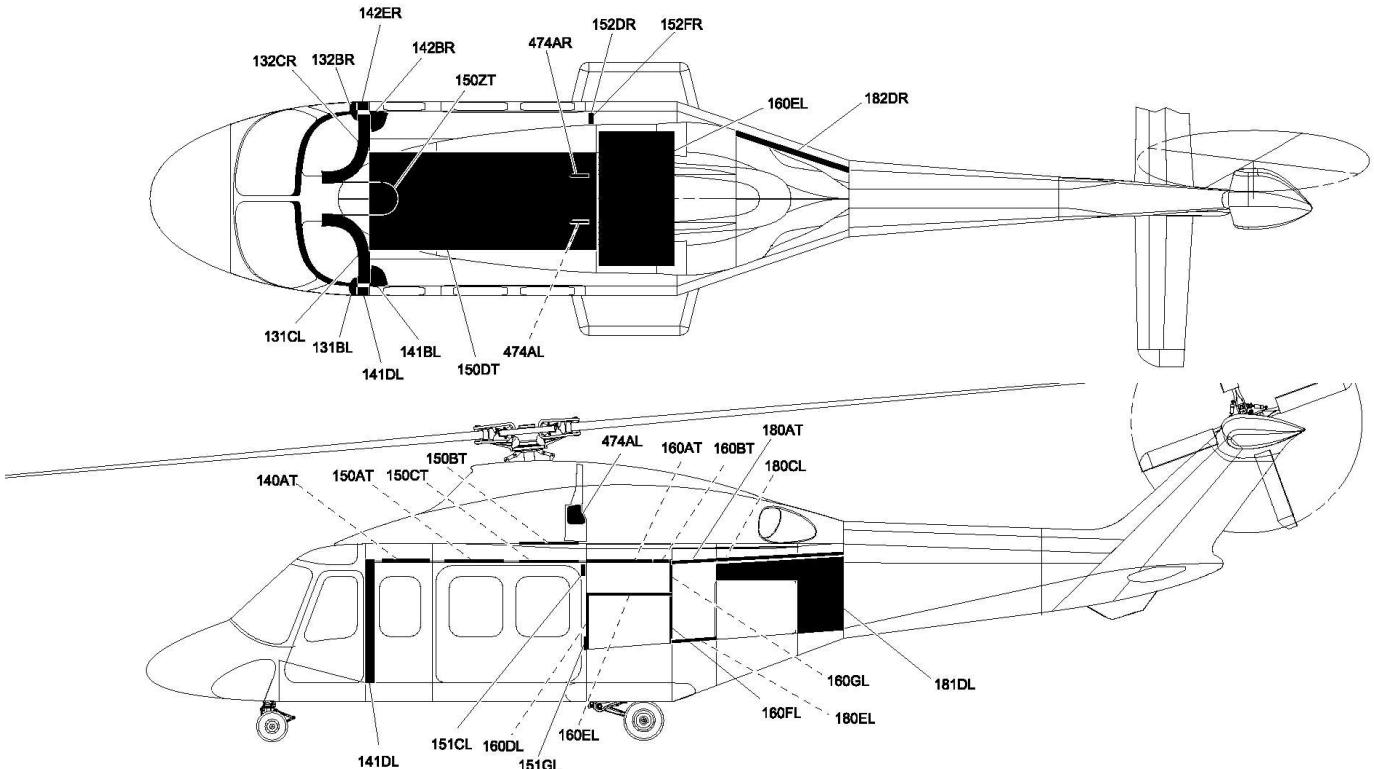
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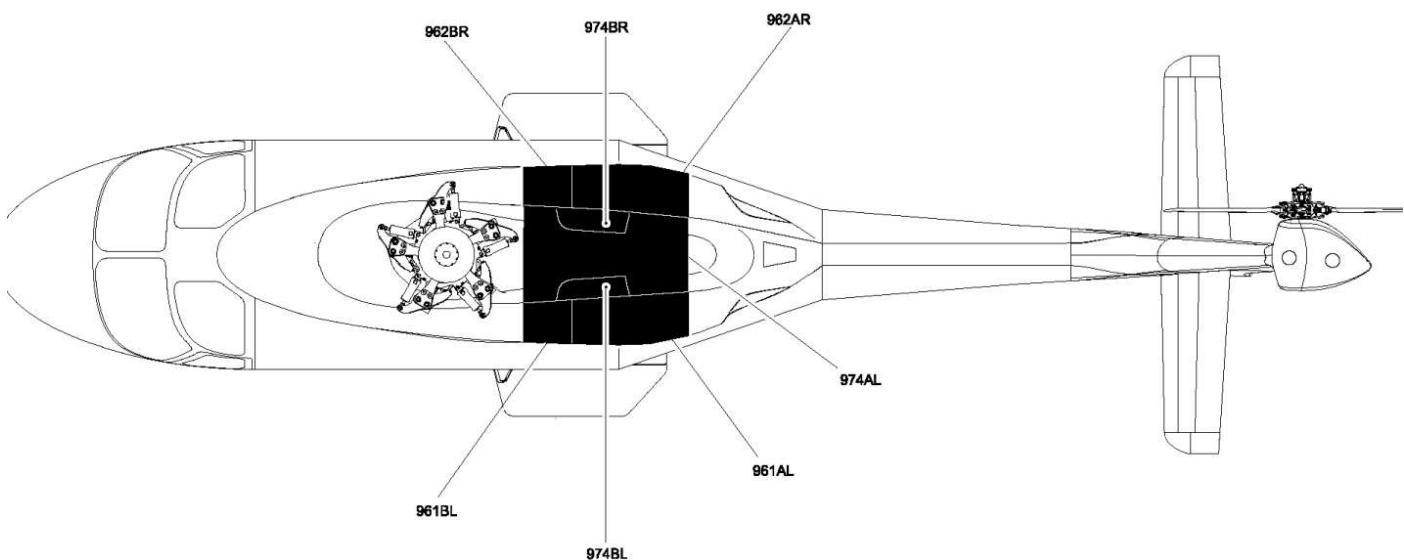
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NOTE: Access doors/panels when the engine inlet particle separator system is installed on the helicopter



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