

**MUKAMALAH AVIATION COMPANY LIMITED (MAC)**  
**LEONARDO S.p.A. AW139 AIRCRAFT INSPECTION PROGRAM**  
05-05-2YR AW139 2 YEAR (NON-VIP) CHECK

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Tail Number	SAP Order Number	Work Order Number
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**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 2 years / 2400 hours on all AW139 non-VIP aircraft. The 1 Year Inspection Checklist must be accomplished in conjunction with this inspection.
3. Each section / item must be initialed or stamped by the mechanic and inspector (if applicable) 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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1. FUSELAGE (INCL. UPPER DECK) & LANDING GEAR					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. 21-01	SOV body and flange, high pressure duct (internal to the engine bay), TCV body and HP duct (tail drive shaft tunnel area between the engine firewalls): Do a GVI for damage and condition, fault finding task (removal of high pressure duct thermal insulation required).  Ref. 39-A-21-40-00-00A-310A-K.				
2. 25-101	<b>APPLIES TO ALL EXCEPT 41384 AND 41409:</b>  Kit First Aid DART: Perform a detailed inspection to check the container for general condition and damage. Check also all contents for presence, completeness, general condition, obvious damage and expiration dates (if the expiry date is earlier than the next liferaft inspection, discard and replace items).  Ref. 39-E-25-62-00-00A-31AA-K Applicable _____ Not Applicable _____				
3. 28-04	Flame arrestor: Servicing by cleaning.  Ref. 39-A-28-12-00-00A-251A-B	LH			
		RH			
4. 28-05	Flame arrestor: Do A DI to ensure serviceability of function.  Ref. 39-A-28-12-00-00A-31AA-A	LH			
		RH			
5. 53-01	NLG right bracket: Do a DI for corrosion and condition.  Ref. 39-A-53-10-00-00A-31AC-A				
6. 53-02	NLG left bracket: Do a DI for corrosion and condition.  Ref. 39-A-53-10-00-00A-31AC-A				
7. 53-24	MLG right forward bracket: Do a DI for corrosion and condition.  Ref. 39-A-53-10-00-00A-31AD-A				
8. 53-25	MLG right rear bracket: Do a DI for corrosion and condition.  Ref. 39-A-53-10-00-00A-31AD-A				
9. 53-26	MLG left forward bracket: Do a DI for corrosion and condition.  Ref. 39-A-53-10-00-00A-31AD-A				

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ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
10. 53-27	MLG left rear bracket: Do a DI for corrosion and condition.  Ref. 39-A-53-10-00-00A-31AD-A				
11. 53-39	Main cabin – Lower structure – Floor spars: Do a DI for cracks (both sides of spars). Floor panels removal required.  Ref. 39-A-53-10-00-00A-31AP-A.				
12. CP100-02	Detailed Inspection of Cabin Doors: Perform a detailed inspection of the cabin doors for corrosion, condition and corrosion protection deterioration. Inspection to include the cabin doors installation, pins, hinges, drain provisions, rollers, receptacles and interface areas.  Ref: DMC 39-A-20-81-03-01A-31AA-D				
13. CP100-08	Detailed Inspection of Cabin Upper Structure: Perform a detailed inspection of the cabin upper structure for corrosion, evidence of water intrusion and corrosion protection deterioration.  Ref: DMC 39-A-20-81-14-01A-31AA-D				
14. CP100-18	Detailed Inspection of the Cockpit Floor: Perform a detailed inspection of the cockpit floor area for evidence of water intrusion and salt accumulation.  Ref: DMC 39-A-20-81-12-00A-31AA-D				
15. CP100-21	Detailed Inspection of Main Fuel Tanks Upper Area: Perform a detailed inspection of the main fuel tanks upper are for corrosion, damage, evidence of water intrusion and corrosion protection deterioration. Inspection to include the equipments, valves, hoses, provisions, drain lines and electrical provisions in the area.  Ref: DMC 39-A-20-81-06-02A-31AA-D		RII		
16. CP100-24	Detailed Inspection of Baggage Compartment: Perform a detailed inspection of the exposed surfaces of the baggage compartment for condition, corrosion, salt accumulation, evidence of water intrusion and corrosion protection deterioration. (removal of the liners and floor equipments is required)  Ref: DMC 39-A-20-81-07-00A-31AA-D				
17. CP100-26	Detailed Inspection of Baggage Compartment Avionics Bay: Perform a detailed inspection of the baggage compartment Avionics Bay and the related installed equipments for corrosion, condition, evidence of water intrusion and corrosion protection deterioration.  Ref: DMC 39-A-20-81-07-02A-31AA-D				

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ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
18. CP200-01	<p>Detailed Inspection of Cockpit Doors: Perform a detailed inspection of the cockpit doors for corrosion, condition and corrosion protection deterioration. Inspection to include pins, hinges, drain provisions, interface areas, emergency release tabs/handles.</p> <p>Ref: DMC 39-A-20-85-01-01A-31AA-D</p>				
19. CP200-03	<p>Detailed Inspection of Cockpit Roof Internal Area: Perform a detailed inspection of the cockpit roof internal area for corrosion, evidence of water intrusion and corrosion protection deterioration. Inspect to include controls, electrical installation and equipment, structure, ventilation/heating/conditioning routing and provisions.</p> <p>Ref: DMC 39-A-20-85-02-01A-31AA-D</p>				
<b>FUSELAGE (INCL. UPPER DECK) &amp; LANDING GEAR COMPLETED</b>					
2. TAILBOOM & TAIL ROTOR DRIVE					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. 53-30	<p>Tailplane upper right fitting assembly: Do a DI for corrosion and condition.</p> <p>Ref. 39-A-53-40-00-00A-31AD-A</p>				
2. 53-31	<p>Tailplane upper left fitting assembly: Do a DI for corrosion and condition.</p> <p>Ref. 39-A-53-40-00-00A-31AD-A</p>				
3. 53-32	<p>Tailplane lower fitting assembly: Do a DI for corrosion and condition.</p> <p>Ref. 39-A-53-40-00-00A-31AD-A</p>				
4. 64-07	<p>Tail rotor hub damper brackets: Do a DI for corrosion and condition. Pay particular attention to area where damper bracket mates with hub for signs of corrosion.</p> <p>Ref. 39-A-64-21-00-00A-31AE-A</p>				

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2. TAILBOOM & TAIL ROTOR DRIVE					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
	TAILBOOM & TAIL ROTOR DRIVE COMPLETED				

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3. MAIN ROTOR & GEARBOX					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. 62-15	Main rotor pitch control levers: Do a DI for corrosion and condition.  Ref. 39-A-62-22-00-00A-31AG-A				
<b>MAIN ROTOR &amp; GEARBOX COMPLETED</b>					

4. ENGINE & POWERPLANT					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. 71-02	External engine bracket (LH/RH): Do a DI for corrosion and condition.  Ref. 39-A-71-22-00-00A-31AA-A	LH			
		RH			
2. 71-03	Internal engine bracket (LH/RH): Do a DI for corrosion and condition.  Ref. 39-A-71-22-00-00A-31AA-A	LH			
		RH			
3. 71-04	External engine special bolts: Do a DI for evidence of corrosion and security of attachment.  Ref. 39-A-71-22-00-00A-31AA-A	LH			
		RH			
4. 71-05	Internal engine special bolts: Do a DI for evidence of corrosion and security of attachment.  Ref. 39-A-71-22-00-00A-31AA-A	LH			
		RH			
<b>ENGINE &amp; POWERPLANT COMPLETED</b>					

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5. AVIONICS & ELECTRICAL					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. 22-03	Trim servo actuators: Do a GVI to detect corrosion or mechanical damage of bundles and condition, safety and security of connectors  Ref: 39-A-22-12-00-00A-310A-A				
2. 24-03	Power distribution panels: Do a GVI to detect corrosion or mechanical damage of bundles and condition, safety and security of connectors.  Ref. 39-A-24-61-00-00A-310A-A				
3. 28-06	Low level sensor: Do an OC to determine if the FCU is able to indicate that the LLD probe has failed.  Ref. 39-A-28-42-00-00A-321C-A.				
4. 91-03	Flux valves and yaw actuator bundles and connectors: Do a GVI to detect corrosion or mechanical damage of bundles and condition, safety and security of connectors.  Ref. 39-A-91-10-00-00C-310A-A.  Applicable _____ Not Applicable _____				
5. 91-05	Electrical clamping bonded to upper deck area: Do an OC to detect security of attachment and integrity of bonding to structure (fault finding task).  Ref. 39-A-91-10-00-00A-320A-A				
6. 91-06	Electrical clamping bonded inside tail fin: Do an OC to detect security of attachment and integrity of bonding to structure (fault finding task).  Ref. 39-A-91-10-00-00A-320A-A				
7. 91-07	Electrical clamping bonded in intermediate gearbox area: Do an OC to detect security of attachment and integrity of bonding to structure (fault finding task).  Ref. 39-A-91-10-00-00A-320A-A				
8. 91-08	Electrical clamping bonded in tail rotor actuator area: Do an OC to detect security of attachment and integrity of bonding to structure (fault finding task).  Ref. 39-A-91-10-00-00A-320B-A				
9. 91-09	Electrical clamping bonded near main landing gear actuators in sponson areas: Do an OC to detect security of attachment and integrity of bonding to structure (fault finding task).  Ref. 39-A-91-10-00-00A-320B-A				

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5. AVIONICS & ELECTRICAL					
ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
10. 91-10	Electrical clamping bonded in trim actuator areas below cockpit seats: Do an OC to detect security of attachment and integrity of bonding to structure (fault finding task).  Ref. 39-A-91-10-00-00A-320C-A				
11. 91-11	Electrical clamping bonded in cabin flight control areas: Do an OC to detect security of attachment and integrity of bonding to structure (fault finding task).  Ref. 39-A-91-10-00-00A-320C-A				
12. 91-12	Electrical clamping bonded inside tail boom in flight control area: Do an OC to detect security of attachment and integrity of bonding to structure (fault finding task).  Ref. 39-A-91-10-00-00A-320C-A				
<b>AVIONICS &amp; ELECTRICAL COMPLETED</b>					

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<b>6. WORK COMPLETION</b>			
	<b>TASK</b>	MECH	INSP
	Ensure the 1 Year Inspection 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 Orders.		
	Record the total man-hours for all checklist items: _____		

I certify that the 2 Year (non-VIP) Check 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 has been determined to be in airworthy condition with respect to the work performed.

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Date	Mechanic's Signature	Company ID No. or Cert. No.	Repair Station Cert. No. (if applicable)
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