
MUKAMALAH AVIATION COMPANY LIMITED (MAC)
LEONARDO S.p.A. AW139 AIRCRAFT INSPECTION PROGRAM
05-41-30 AW139 1200 HOUR CHECK

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 1200 hours / 2 years / 8350 landings on all AW139 except S/N 31562 & 31891 and every 1200 hours / 8350 landings on S/N 31562 & 31891. The 600 Hr, 300 Hr and 50 Hr Inspection Checklists 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. 29-04	ALL AW139 EXCEPT S/N 31562 & 31851 Number 1 hydraulic system: Servicing by drain and refill of hydraulic fluid. Ref. 39-A-12-12-10-00A-228A-A, 39-A-12-11-08-00A-218A-A Applicable _____ Not Applicable _____				
2. 29-08	ALL AW139 EXCEPT S/N 31562 & 31851 Number 2 hydraulic system: Servicing by drain and refill of hydraulic fluid. Ref. 39-A-12-12-09-00A-228A-A, 39-A-12-11-09-00A-218A-A Applicable _____ Not Applicable _____				
3. 52-04	Cabin Passenger Doors Locking System: Perform a Functional Check of Door Locking System Ref: 39-A-52-12-01-01A-340A-A		RII		
4. CM67-01	ALL AW139 EXCEPT S/N 31562 & 31851 Fixed Flight Control: VC of pitch, roll and yaw anchor spring mechanisms. Ref. 39-A-67-10-00-00A-311A-A Applicable _____ Not Applicable _____		RII		
5. MI53-07	Fuselage Structure Assembly (forward MGB rod backup structure): Detailed inspection for cracks. Ref. 39-A-53-10-00-00A-31AA-A.		RII		
6. MI53-08 – LH	Fuselage Structure Assembly – aft MGB rod backup structure and fitting part number 3P5330A11251: Detailed inspection for cracks – LH AFT ONLY. Ref. 39-A-53-10-00-00A-31AA-A. Applicable _____ Not Applicable _____		RII		

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ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
7. MI53-08 – RH	Fuselage Structure Assembly – aft MGB rod backup structure and fitting part number 3P5330A11251: Detailed inspection for cracks – RH AFT ONLY. Ref. 39-A-53-10-00-00A-31AA-A. Applicable _____ Not Applicable _____		RII		
8. MI53-09	Fuselage Structure Assembly (anti-torque beam backup structure): Detailed inspection for cracks. Ref. 39-A-53-10-00-00A-31AB-A.		RII		
9. MI53-10	NOTE: For helicopters that have a free-running inspection task per MI53-10 this item is NOT APPLICABLE. Prior to signing off, contact Planning to determine if this helicopter has free-running task MI53-10 scheduled. Tail Structure Assembly (tail / rear fuselage attachment fittings): Detailed inspection for cracks. Ref. 39-A-53-40-00-00A-31AG-A Applicable _____ Not Applicable _____		RII		
FUSELAGE (INCL. UPPER DECK) & LANDING GEAR COMPLETED					

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2. TAILBOOM & TAIL ROTOR DRIVE

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. 64-02	Remove tail rotor blades & elastomeric bearings. Ref. 39-A-64-11-01-00A-520A-A & 39-A-64-11-01-00A-530A-B. Record details below: Tail Rotor Blades: Yellow P/N _____ S/N _____ Blue P/N _____ S/N _____ Red P/N _____ S/N _____ White P/N _____ S/N _____ Elastomerics: Yellow P/N _____ S/N _____ Blue P/N _____ S/N _____ Red P/N _____ S/N _____ White P/N _____ S/N _____				
	Do a DI for debonding and delamination (blade removal required). Ref. 39-A-64-11-01-00A-31AA-B NOTE: Elastomeric bearing removal required		RII		

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2. TAILBOOM & TAIL ROTOR DRIVE

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
	Reinstall elastomeric bearings & tail rotor blades. Ref. 39-A-64-11-01-00A-710A-B & 39-A-64-11-01-00A-720A-A. Record details below: Elastomerics: Yellow P/N _____ S/N _____ Blue P/N _____ S/N _____ Red P/N _____ S/N _____ White P/N _____ S/N _____ Tail Rotor Blades: Yellow P/N _____ S/N _____ Blue P/N _____ S/N _____ Red P/N _____ S/N _____ White P/N _____ S/N _____		RII		
2. 64-36	TR blade damper attachments and hub damper brackets: Do a DI for damage (lag damper removal required) Ref. 39-A-64-11-00-00A-31AC-A or 39-A-64-21-00-00A-31AG-A as applicable		RII		

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2. TAILBOOM & TAIL ROTOR DRIVE

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
3. 65-11	Bearing support assembly: Disconnect Number 1 and Number 2 tail rotor drive shafts.		RII		
	Do the FC of the locknut for check of correct torque. (Number 1 and Number 2 drive shafts disconnection required). Ref. 39-A-65-11-00-00A-31AC-A or 39-B-65-11-00-00A-31AC-A (as applicable).		RII		
	Reconnect Number 1 and Number 2 tail rotor drive shafts. Ref. 9-A-65-11-01-00A-720A-A & 39-A-65-11-05-00A-720A-A.		RII		
4. 65-12	Gearboxes - Intermediate gearbox: Do a DI for condition, security and damage. Ref. 39-A-65-20-00-00A-31AA-A or 39-B-65-20-00-00A-31AA-A.				
5. 65-17	Gearboxes - Tail gearbox: Do a DI for condition, security and damage. Ref. 39-A-65-20-00-00A-31AB-A or 39-B-65-20-00-00A-31AB-A (as applicable).				
6. 65-26 (MTD AW139-11-027)	Bearing support assembly: Lubrication of ball bearings, including an OC to detect bearing roughness at rotation and a DI of the ball bearing external race for heavy wear caused by abnormal rotation into its housing. Do an OC of the three rose bearing to verify the absence of ply (no quantitative measurement necessary). Number 1 and Number 2 drive shafts disconnection required. Ref. 39-A-65-11-11-00A-242A-A or 39-B-65-11-11-00A-242A-A (as applicable)		RII		
	Reassembly after completion of work in block above. Ref. 39-A-65-11-11-00A-242A-A or 39-B-65-11-11-00A-242A-A (as applicable)		RII		
TAILBOOM & TAIL ROTOR DRIVE COMPLETED					

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4. MAIN ROTOR & GEARBOX

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. Parts removal for access	Remove beanie. Ref. 39-A-62-21-02-00A-520A-A.				
	Remove main rotor blades. Ref. 39-A-62-11-01-00A-520A-A. Record details below: Yellow P/N _____ S/N _____ Blue P/N _____ S/N _____ Red P/N _____ S/N _____ Black P/N _____ S/N _____ White P/N _____ S/N _____				
	Remove pitch change link assemblies. Ref. 39-A-62-31-01-00A-520A-A				
	Remove rotating scissors. Ref. 39-A-62-31-02-00A-520A-A. Record details 1. P/N _____ S/N _____ 2. P/N _____ S/N _____				
	Remove top conical ring. Ref. 39-A-62-21-05-00A-520A-A.				

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4. MAIN ROTOR & GEARBOX

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
	Remove main rotor head. Ref. 39-A-62-22-00-00A-520A-A. Record details below: Hub P/N _____ S/N _____				
	Examine the visible parts of the mast. Ref: 39-A-63-20-00-00A-31AB-A		RII		
	Remove bottom conical ring. Ref. 39-A-62-22-16-00A-520A-A.				
	Remove swashplate. Ref. 39-A-62-31-06-00A-520A-A. Record details below: Swashplate P/N _____ S/N _____				
2. 62-02	Main rotor blade: Do a DI for debonding and delaminations (blade removal required). Ref. 39-A-62-11-01-00A-31AA-B.		RII		
3. 62-04	Beanie attachments: Do a GVI for damage and condition. Ref. 39-A-62-21-02-00A-310A-B.		RII		
4. 62-08	Main rotor upper conical ring: Do a DI for damage and condition. Includes inspection of hub-mast splines (hub removal required). Ref. 39-A-62-21-05-00A-31AA-B.		RII		
5. 62-11	Blade bolts: Do a DI. Ref. 39-A-62-22-13-00A-31AA-B.				
6. 62-17	Main rotor lower conical ring: Do a DI for damage and condition. Includes inspection of hub-mast splines (hub removal required). Ref. 39-A-62-22-16-00A-31AA-B.		RII		
7. 62-28	Spherical pivot and fixed swashplate: Do a FC for correct friction between pivot and swashplate. Ref. 39-A-62-31-06-00A-320B-A.		RII		

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4. MAIN ROTOR & GEARBOX

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
8. 62-38	Main rotor tension link: Do a GVI for damage and condition. Ref. 39-A-62-22-00-00A-310A-B.		RII		
9. 62-39	Rotating controls - centering plates: Do a DI of the surfaces for corrosion and condition (swashplate removal required). Ref. 39-A-62-31-05-00A-31AA-A.		RII		
10. Parts reinstallation	Reinstall swashplate. Ref. 39-A-62-31-06-00A-720A-A. Record details below: Swashplate P/N _____ S/N _____		RII		
	Reinstall bottom conical ring. Ref. 39-A-62-22-16-00A-720A-A.		RII		
	Reinstall main rotor head. Ref. 39-A-62-22-00-00A-720A-A. Record details below: Hub P/N _____ S/N _____		RII		
	Reinstall top conical ring. Ref. 39-A-62-21-05-00A-720A-A.		RII		
	Reinstall rotating scissors. Ref. 39-A-62-31-02-00A-720A-A. Record details below: 1. P/N _____ S/N _____ 2. P/N _____ S/N _____		RII		
	Reinstall pitch change link assemblies. Ref. 39-A-62-31-01-00A-720A-A				

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4. MAIN ROTOR & GEARBOX

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
	Reinstall main rotor blades. Ref. 39-A-62-11-01-00A-720A-A. Record details below: Yellow P/N _____ S/N _____ Blue P/N _____ S/N _____ Red P/N _____ S/N _____ Black P/N _____ S/N _____ White P/N _____ S/N _____		RII		
	Reinstall beanie. Ref. 39-A-62-21-02-00A-720A-A.				
MAIN ROTOR & GEARBOX COMPLETED					

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4. ENGINE & POWERPLANT

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. 71-01	Engine mounts: Do a DI for condition, security and damage (includes check of bolts torque loading). Ref. 39-A-71-21-00-00A-31AA-A.	LH	RII		
		RH	RII		
2. MI53-13	Internal Engine Attachment Backup Structure: Detailed inspection for cracks. Ref. 39-A-53-10-00-00A-31AE-A	LH			
		RH			
ENGINE & POWERPLANT COMPLETED					

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5. AVIONIC & ELECTRICAL

ITEM	TASK	MECH	INSP	WORK REQD Yes / No	MHRS
1. 34-01	ADS reversionary switch: Do an OC to detect dormant failure of reversionary switch function. Ref. 39-B-31-61-16-00A-320A-A.				
2. 34-02	AHRS reversionary switch: Do an OC to detect dormant failure of reversionary switch function. Ref. 39-B-31-61-16-00A-320B-A.				
3. 34-03	MAU1 and MAU2 control I/O modules: Do an OC to detect dormant failure of the reversionary switch function. Opportune with OC of CCD selection switches (CMR task CM23-02). Ref. 39-A-31-40-00-00A-320A-A.				
4. 46-01	PDF/MFD reversionary switches: Do an OC to detect dormant failure of reversionary switch function. Ref. 39-B-31-61-00-00A-320C-A.				
5. CM22-01	Automatic Flight Control: OC of MAU AHRS input. Ref. 39-A-34-23-00-00A-320A-A				
6. CM23-01	Communication: OC of MCDU and audio panel backup functions (ICS backup relays will be checked when performing this task). Ref. 39-A-23-10-00-00A-320A-A				
7. CM23-02	Communication: OC of CCDs selection switches. Ref. 39-B-31-61-00-00A-320B-A				
8. CM24-02	Electrical Power: OC of diode modules (CR3, CR23 and CR24). Ref. 39-A-24-32-00-00A-320A-A				
AVIONIC & ELECTRICAL COMPLETED					

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8. WORK COMPLETION

TASK	MECH	INSP	WORK REQD Yes / No
Ensure the 50 Hour, 300 Hour Aircraft and 600 Hour Inspection Checklists have 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 1200 Hour Check has been performed on aircraft:

(tail number) _____, aircraft total time _____, in accordance with the Saudi Arabian Oil 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)