



WORK ORDER



To: GALAXY AEROSPACE (M) SDN. BHD.

Address: Lot 11-14, MRO Centre, Malaysia
International Aerospace Centre, SAAS Airport,
Subang
Malaysia

Attention: Mr. Syafrul Yamani
Engineering Manager
syafrul@galaxyaerospace.my

Work Order Number: 2022-10876

Work Pack Reference: 9M-BOF-10876

Date Issued: 26/04/2022

A/C Registration / SN: 9M-BOF/49053

Sheet: 1 of 1

Description:

Item	Description/Task/Inspection	Reference	Man Hours
1	62-01 CHECK POST INSTALLATION OF MR HUB RETAINING ASSEMBLY BOLTS. (5 FH - 10 FH)	AMPI 89-A-05-21-00	<u>4.0</u> (PLEASE ADVISE)

Remark/Notes:

1. State this Work Order reference on your Work Package. Should there is any additional job/defect (unless specified in the work package) the maintenance organization must notify GAM Continuing Airworthiness Manager prior to proceed with rectification.
2. Work must be carried out in accordance with approved data and perform by qualified personnel/ approved LAE from the maintenance organization.
3. Parts used must be written in Parts Report Form and accompanied by ARC, Serviceable Label or equivalent document.
4. Test report, parameter reading or any supporting data must be attached with the worksheet if applicable.
5. The maintenance organization shall be responsible for any damages made on the aircraft/ components during maintenance.
6. Softcopy of completed Work Package shall be submitted or as mutual agreed and GAM Continuing Airworthiness Manager must be informed once the aircraft is Release to Service.
7. Completed Work Package (original) must be submitted to GAM Continuing Airworthiness Manager office within 3 days of date of completion.

I hereby declare that an approved and up to date maintenance data has been referred for the issuance of this work order.

Thank you.
Best Regards,

Zaty Nadhira Mohamed Zuhari
Continuing Airworthiness Management Manager
Email: zaty@galaxyaerospace.my



CLIENT/OWNER: JABATAN BOMBA DAN PENYELAMAT MALAYSIA	SERIAL NO.	HOURS	LDG/CYCLE	WORKSHEET NO: 10876-001
AIRCRAFT TYPE: AW189	AIRCRAFT: 49053	REFER WORKPACK		WORK/INSP/DESC: TORQUE CHECK
REGISTRATION: 9M-BOF	#1 ENGINE: 780225	REFER WORKPACK		WORKPACK REF: 9M-BOF-10876
BASE/FACILITY: MAI	#2 ENGINE: 780234	REFER WORKPACK		AJL REF NO.: REFER WORKPACK
DATE IN: REFER WORKPACK OUT: REFER WORKPACK			NG / N1 NF / N2	SHEET: 1 OF 1

Reason for raising:
 MR HUB RETAINING ASSEMBLY BOLTS TO BE CARRIED OUT IN ACCORDANCE WITH JBPM/CAMO/AMP/AW189 ISSUE 03 REVISION 01 AW189 IETP - 22ND ISSUE: 2021-11-10 UPDATED: 2022-02-18 OR LATEST APPROVED REVISION 62-01 CHECK POST INSTALLATION OF MR HUB RETAINING ASSEMBLY BOLTS. (5 FH - 10 FH)

Raised by and date:
 CAMO JBPM; Mohd Fikri
 26/04/2022

Other requirements/information:
 NIL

Item	Description	Technician	* Eng. CRS	Date
1	<p>62-01 FUNCTIONAL CHECK (TORQUE CHECK) OF THE MAIN ROTOR HUB RETAINING BOLTS</p> <p>PERFORM A TORQUE CHECK OF THE MAIN ROTOR HUB RETAINING ASSEMBLY BOLTS. ONE OFF CHECK AFTER INSTALLATION.</p> <p>NOTE: RE-TORQUE CAN BE APPLIED FOR A MAXIMUM OF 5 TIMES</p> <p>DMC REF: 89-A-62-21-00-00A-340A-A MRBR REF: GEN62-01</p> <p>REFER 9M-BOF-11574</p> <p>REMARK: DO NOT RETORQUE DUE TO REACH MAXIMUM 5 TIMES RETORQUE ALREADY</p> <p>RE-TORQUE CHECK CARRIED OUT, FOUND BOLT NOT STABILISED. TO CARRY OUT WITH MAIN ROTOR HEAD REMOVAL.</p> <p>NOTE: REFER TO 9M-BOF-11376 FOR MRH REMOVAL AND INSTALLATION.</p>	<p>2</p> <p>8/62</p>		<p>9.5.22</p>

*The work recorded above has been carried out in accordance with the requirements of the Malaysian Civil Aviation Regulation for the time being in force and in that respect the aircraft / equipment is considered fit for release to service.

*The work recorded above has been carried out in accordance with the requirements of the _____ for the time being in force and in that respect the aircraft / equipment is considered fit for release to service.

TICK ✓ WHERE APPLICABLE

PARTS ISSUED & RETURNED	DD SHEET	DUP/INSP INSP	GROUND RUN	FLIGHT TEST	PROG CHK	ADDITIONAL WORKSHEET	MONITORED EFFECT	PLANNING FORECAST	DIARY UPDATE	STATUS UPDATE	DD STATUS	AIR PART DEFECT	ENGINE LOG BOOK	PROPELLER LOGBOOK	LOG CARD	ENGINE OIL LOG CARD	MODIFIED BOOK
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AW189 MAIN ROTOR HEAD RETAINING BOLTS - TORQUE CHECK REPORTING PROFORMA					
AIRCRAFT TAIL NUMBER	9M-B0F	FLIGHT HOURS	877:30 FH	DATE	9.5.22
MRH P/N	866220A03031	MRH S/N	61	[K134] FULL ICE PROTECTION SYSTEM (FIPS)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
HRS SINCE INSTALLATION	42:14 FH	TORQUE CHECK NUMBER	5	[K104] MAST VIBRATION ABSORBER	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

GAP CLEARANCE (mm) HUB - TOP CONICAL RING	
Position A (ref. BOLT No. 4)	1.00 mm
Position B (ref. BOLT No. 5)	0.85 mm
Position C (ref. BOLT No. 11)	1.20 mm

BOLT POSITION	PASS / FAIL	FAIL TORQUE FIGURE [Nm]	BOLT POSITION	PASS / FAIL	FAIL TORQUE FIGURE [Nm]
1	PASS	-	7	FAIL	620
2	PASS	-	8	FAIL	620
3	PASS	-	9	PASS	-
4	PASS	-	10	PASS	-
5	PASS	-	11	FAIL	620
6	PASS	-	12	FAIL	620

INSTRUCTIONS:

PASS/FAIL FIELD → Write PASS or FAIL according to the outcome of the check.
 - PASS: If the bolt has not turned at any of the three parts of the torque check.
 - FAIL: If the bolt turns at a torque level equal or lower than the final check value.

FAIL TORQUE FIGURE FIELD → If the condition is FAIL: write the value of torque at which the bolt turns.

BOLTS NUMBERING → Keep always the same sequence with reference to the RED DOT.

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Figure 2 Main rotor head retaining bolts - Torque check reporting proforma