



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: 2022-14009

Work Pack Reference: 9M-PTD-14009

Date Issued: 30/12/2022

A/C Registration / SN: 9M-PTD/FL-680

Sheet: 1 OF 1

Description:

Item	Description/Task/Inspection	Reference	Man Hours
1	ISOLATION OF SPECIAL MISSION EQUIPMENT RADAR	MODIFICATION DOCUMENT NO. GAM197/MD	<u>6.0 H</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: ROYAL MALAYSIA POLICE AIRCRAFT TYPE: B300 (SKA350) REGISTRATION: 9M-PTD BASE/FACILITY: WMSA DATE IN: REFER WORKPACK OUT: REFER WORKPACK	SERIAL NO.	HOURS	LDG/CYCLE	WORKSHEET NO:	14009-001	
	AIRCRAFT	FL-680	REFER WORKPACK	WORK/INSP/DESC:	ISOLATION OF SME	
	#1 ENGINE:	PCE-PK0985	REFER WORKPACK	WORKPACK REF:	9M-PTD-14009	
	#2 ENGINE:	PCE-PK1184	REFER WORKPACK	AJL REF NO.:	REFER WORKPACK	
			NG / N1	NF / N2	SHEET:	1 OF 1

Reason for raising: ISOLATION OF SPECIAL MISSION EQUIPMENT RADAR TO BE CARRY OUT IN ACCORDANCE WITH MODIFICATION DOCUMENT NO. GAM197/MD REVISION 0 DATED OCT-20-2022 OR LATER APPROVED REVISIONS.	Raised by and date: CAMO; Nurul Husna Zainol Abidin 30/12/2022	Other requirements/information: NOT APPLICABLE
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Item	Description	Technician	* Eng. CRS	Date
1	ISOLATION OF SPECIAL MISSION EQUIPMENT RADAR TO BE CARRY OUT IN ACCORDANCE WITH MODIFICATION DOCUMENT NO. GAM197/MD PARA 2 ACCOMPLISHMENT INSTRUCTIONS. REFERENCE: MODIFICATION DOCUMENT NO. GAM197/MD PARA 2 ACCOMPLISHMENT INSTRUCTIONS REMARKS: <i>TASK CARRIED OUT FOUND SATISFACTORY.</i>	 8392	 	12/1/2023

Certifies that the work specified above, except as otherwise specified, was carried out in accordance with CAA Malaysia Requirements and in respect to that work the aircraft / aircraft component is considered ready for release to service. **AMQ/2018/02**

Certifies that the work specified above, except as otherwise specified, was carried out in accordance with _____ and in respect to that work the aircraft / aircraft component is considered ready for release to service.

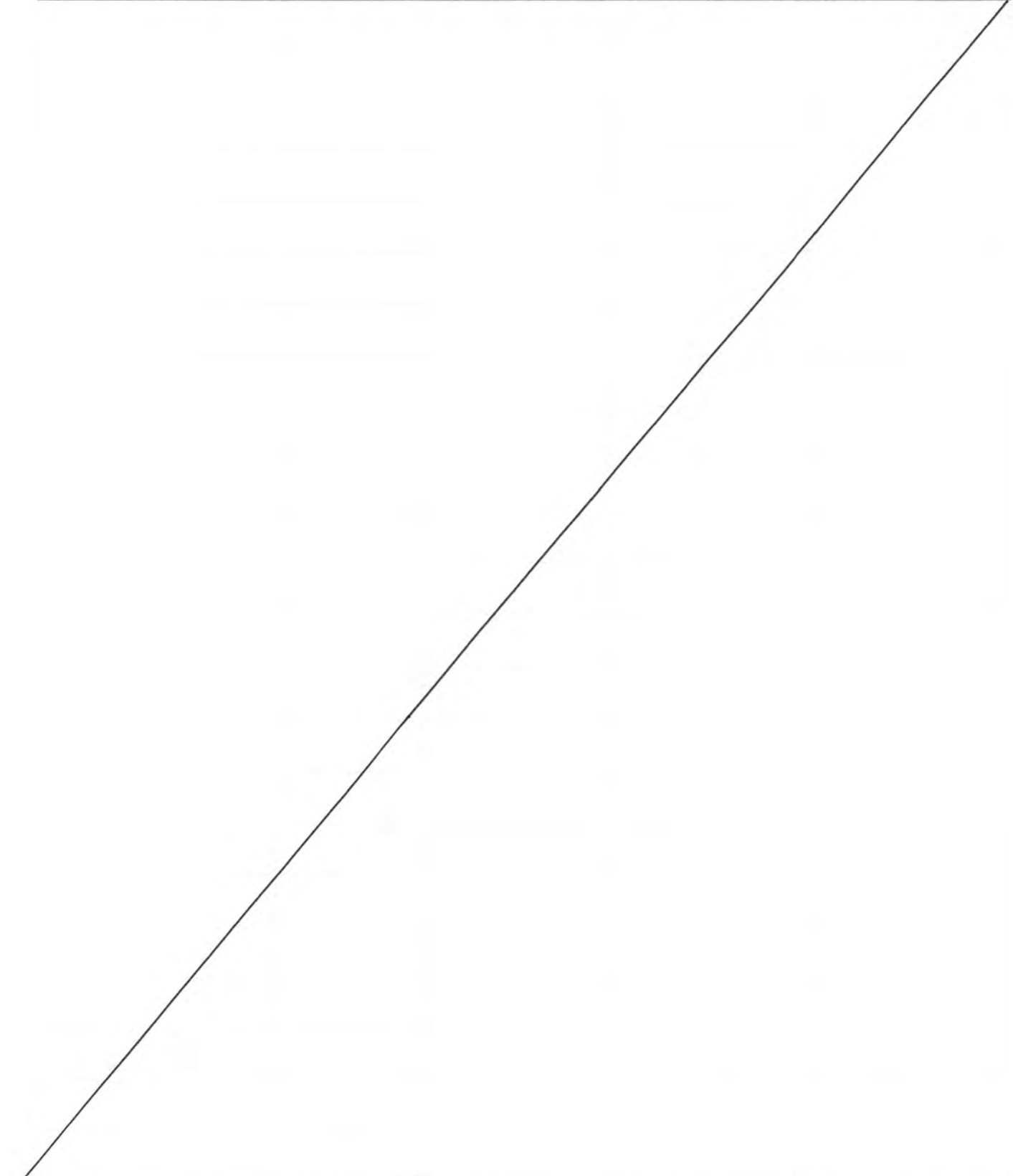
TICK WHERE APPLICABLE


PARTS LABELED & RETURNED	OD RANSES	DUPLICATE W/P	ISSUED W/P	FLIGHT TEST	TORQUE LOG	ADDITIONAL WORK (P/N)	MONITORED DEFECT	PLANNING REQUIRED	DIRTY (W/P)	STATUS UPDATE	LOG (W/P)	AIRCRAFT DAMAGE	ENGINE LOG	FUEL/DEFER LOG (HOUR)	LOG FARE	DEM. COMP LOG (HOUR)	MPD RECEIPT BOOK
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Aircraft Serial No:	FL-680	Work Pack No:	9M-PTD-14009
Aircraft Type:	B300 (SKA350)	DESC:	ISOLATION OF SME
Aircraft Reg:	9M-PTD	PAGE:	1 OF 1

Description	Part No	Serial Number	Worksheet Ref No. / Item No.	Calibration Due Date
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 MODIFICATION DOCUMENT	ISOLATION OF SPECIAL MISSION EQUIPMENT RADAR ON TEXTRON AVIATION MODEL B300	
	Doc. No.	GAM197/MD
	Date	20/10/2022
	Revision	0

TEXTRON AVIATION MODEL B300 MODIFICATION DOCUMENT




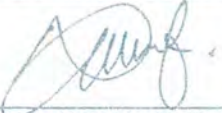

ISOLATION OF SPECIAL MISSION EQUIPMENT RADAR

IMPORTANT NOTE


The technical content of this document is approved under the authority of the DOA Approval No. DOA/2020/01.

The effectivity of the document at the latest revision is specified on the List of Effective Pages.

Approval Signature

Prepared by	Verified & Approved by	Released by
		
MOHD AMIRUL AIMAN Show Compliance Engineer (Installation of Avionics Equipment) 20/10/2022	FHARIDATHUL QHAIROH Compliance Verification Engineer (Installation of Avionics Equipment) 20/10/2022	IR NIZAM NAZAR Authorised Signatory 20/10/2022
		
AHMAD AKMAL ALIF Show Compliance Engineer (Structure) 20/10/2022	MOHD ARIFIN MOHD MATAR Compliance Verification Engineer (Structure) 20/10/2022	

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 GAM/DOA.F.006
 JUNE 2022




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	Doc. No.	GAM197/MD
	Date	20/10/2022
	Revision	0

**TITLE: ISOLATION OF SPECIAL MISSION EQUIPMENT RADAR AND FLIR ON
TEXTRON AVIATION MODEL B300**

1. PLANNING INFORMATION

A. Effectivity

This modification is only applicable to Textron Aviation Model B300 mentioned in Table 1.

Model	Register Number	Serial Number
Textron Aviation Model B300	9M-PTD	FL-680

Table 1 Aircraft Effectivity

B. Classification

This modification is classified as "**MINOR**" as per GAM197/MC.

C. Reason

This document is issued to isolate and fabricate radar doubler for Surface Search Radar on Textron Aviation Model B300 system.

D. Description

Pasukan Gerakan Udara (PGU) has an issue regarding Surface Search Radar. PGU requested to isolate the defective Surface Search Radar and seal the exposed area with suitable panels so that the aircraft may fly in pressurized condition.

This modification consists of:

- i. Fabrication of radar doubler
- ii. Isolation of electrical connector

E. Compliance

At the customer's option.

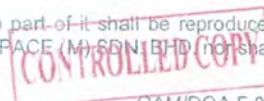
F. Approval


The technical content of this document is approved under the authority of DOA No. DOA/2020/01.

G. Manpower

At the customer's initiative.

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H. Special Tooling

Standard tools only.

I. Weight and Balance

The weight & balance is summarized in the following table:

Item	Weight (kg)	Longitudinal Arm (mm)	Lateral Arm (mm)	Moment Long	Moment Lat
Removed Item(s)					
Surface Search Radar	32.00	215.00	0.00	6880.00	0.00
Total Weight Changes	= 0 – 32.00 = -32.00	215.00		= 0 – 6880.00 = - 6880.00	0.00

Table 2: Weight and Balance table

The contributions of the wire looms and blank plates are not individually reflected. The weight of this isolation is 32 kg, decreasing 0.47% of the aircraft maximum certified weight which is 15,000 lbs (6,803.89 kg) according to TCDS.

J. Electrical Load Data

Item	Current (A)	Max Current Load (A)
New Items	None	0
TOTAL (A1)		0
Removed Items	Surface Search Radar	35.71
TOTAL (A2)		35.71
Electrical Load Changes		= A1- A2 = 0 – 35.71 = - 35.71

Table 3: Electrical Load table

The isolation of both Surface Search Radar freed up the current load of aircraft up to 35.71 Ampere. The decrease does not affect aircraft electrical load capacity.

K. References

- Document No: HP4122-100-14, SMRE Installation and Removal Instructions, Revision 1 or latest revision
- Document No: HP4122-100-13, Special Mission Role Equipment MMS (ICA) Revision 2 or latest revision

L. Publications Affected


Not applicable.

M. Software Accomplishment Summary

Not applicable.

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2. ACCOMPLISHMENT INSTRUCTIONS

A. Preparation

1. Prepare the aircraft on the ground for safe maintenance. Avoid carrying out tasks if the aircraft is on jacks.
2. Disconnect the battery, all electrical power sources and/or the external power supply.
3. Implement suitable access means. Remove all furnishings or equipment as required for access to work zones.
4. Identify the locations of the related equipment on the aircraft as per ED197001.
5. Install circuit breaker collar for the listed component in Table 2 – Circuit Breaker Information written in Document No: HP4122-100-13 Special Mission Role Equipment MMS (ICA) Revision 2 or latest.

B. Accomplishment

B.1. Fabrication

B.1.1. Surface Search Radar

1. Fabricate Surface Search Radar blank plate i.a.w ED197001

B.2. Removal and Installation

B.2.1. Removal Surface Search Radar Antenna and Pedestal

1. Refer to Document No: HP4122-100-14 SMRE Installation and Removal Instructions, para 4.1.2 Removal – Antenna/Pedestal, revision 1 or latest revision.
2. Cap and stow wiring i.a.w ED197003 and AC43.13-1B Para 11-239.

B.2.2. Installation of Blank Plate PN: 197-001

1. Install blank plate PN: 197-001 i.a.w ED197002.


B.3. Functional Check and EMI/EMC Test

Not Applicable.

B.4. Final Installation Instruction

1. Check for security.
2. Check aircraft aspect and cleanliness.
3. Install equipment and furnishings which were removed during preparation steps.
4. Make appropriate logbook entries as required.
5. Return aircraft to service.

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C. Operating and Maintenance Instructions

C.1. Operating Instructions

All Special Mission Equipment Role must not always be operable during all flight phases.

C.2. Maintenance Instructions

Refer GAM197/ICA

3. MATERIAL INFORMATION

A. New / Retained Parts

Radar Doubler PN: ED197002-001

B. Replacement Parts

Nil

C. Re-identified Parts

Nil