

1. Approving Competent Authority / Country:

2.

EASA

4. Organisation Name and Address

GTS MRO

Gas Turbine Solutions Limited
Unit 1, 2A Kyle Road, Irvine Industrial Estate
Irvine, KA12 8JF, Scotland, UK

Tel: +44 (0) 1294 446115
Fax: +44 (0) 1294 441611
Email: mro@gtsmro.com

3. Form Tracking Number.

17821

5. Work Order / Contract / Invoice

Work Order No: **W220442**

Customer Order No: **T37532**

6. Item

7. Description

8. Part No

642W9821-501

9. Qty

1

10. Serial No

06143606

11. Status/Work

OVERHAULED

12. Remarks

UNIT OVERHAULED IN ACCORDANCE WITH CMM 71-50-03 REV 54, DATED MAR 31, 2022.
FULL DETAILS OF THE WORK PERFORMED ARE ON FILE UNDER THE WORK ORDER REFERENCED IN BLOCK 5.
HARNES TSO/CSO: 0
ESN 779481

14a.



Part 145 A.50 Release to Service



Other regulation specified in Block 12

Certifies that unless otherwise specified in block 12, the work identified in block 11 and that work the items are considered ready for release to service.

14b. Authorised Signature

UK-145-01282

14d. Name

GTS MRO

14c. Certificate / Approval Ref. No.

EASA.UK.145.01282

14e. Date (dd/mm/yyyy)

10/May/2022

EASA Form 1 - MF/CAO/145 Issue 3

USER/INSTALLER RESPONSIBILITIES

Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.

Statements in block(s) 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations before the aircraft may be flown

1. Approving Competent Authority / Country:

2.

CAA / UK

4. Organisation Name and Address

AUTHORIZED RELEASE CERTIFICATE CAA FORM 1

3. Form Tracking Number.

UK-17821



Gas Turbine Solutions Limited
Unit 1, 2A Kyle Road, Irvine Industrial Estate
Irvine, KA12 8JF, Scotland, UK

Tel: +44 (0) 1294 446115
Fax: +44 (0) 1294 441611
Email: mro@gtsmro.com

5. Work Order / Contract / Invoice
Work Order No: **W220442**
Customer Order No: **T37532**

6. Item

7. Description

8. Part No

9. Qty

10. Serial No

11. Status/Work

1

HARNES, JUNCTION BOX TO THRUST Rf

642W9821-501

1

06143606

OVERHAULED

12. Remarks

UNIT OVERHAULED IN ACCORDANCE WITH CMM 71-50-03 REV 54, DATED MAR 31, 2022.
FULL DETAILS OF THE WORK PERFORMED ARE ON FILE UNDER THE WORK ORDER REFERENCED IN BLOCK 5.
HARNES TSO/CSO: 0
ESN 779481

The work identified in Block 11 and described herein has been accomplished in accordance with 14 CFR part 43 and in respect to that work, the items are approved for return to service under certificate no. 6GUY330C

13a. Certifies the items identified above were

14a.

☒ Part 145 A.50 Release to Service

☒ Other regulation specified in Block 12

Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.

14b. Authorised Signature

UK.145.01282

14d. Name

GTS MRO

14c. Certificate / Approval Ref. No.
UK.145.01282

14e. Date (dd/mm/yyyy)

10/May/2022

USER/INSTALLER RESPONSIBILITIES

This Certificate does not automatically constitute authority to install.
Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.

Statements in block(s) 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

GTS/MRO

Tel: +44 (0) 1234 441611
Fax: +44 (0) 1234 441612
Email: mro@gtsmro.com

Complete Date: _____
Entry Date: _____
Under Warranty?: No

Customer: AJ WALTER AVIATION LTD
Customer Ref: T37532
Attn: _____
Email: _____

Description: HARNESS, JUNCTION BOX TO THRUST REVERSER

Part No: 642W9821-501

Qty: 1

Serial No: 06143606

TASK DESCRIPTION

TECHNICAL MANUAL

Carry out all tasks as per CMM 71-50-03 Revision 54. Confirm revision status.

VERIFICATION OF P/N & S/N

Check the part number and serial number.

Taken from main i.d. label
P/n: 642W9821-501
S/n: 06143606

AS RECEIVED TEST

Carry out as received test as per CMM 71-50-03, section TEST AND FAULT ISOLATION. Record test results. Record calibrated tooling.

- Tools 116 and 117.
- 1 Passed continuity test IAW Table 112, < 0.2 ohms.
 - 2 Passed harness in motion test, < 0.2 ohms.
 - 3 Passed continuity test from connector to backshell, < 0.01 ohms.
 - 4 Passed continuity test from connector to metal overbraid, < 10 milliohms.
 - 5 Passed insulation resistance test at 500V DC, > 1.5G ohms.
 - 6 Passed shorted wire test at 500V DC, > 2G ohms.
 - 7 Passed contact retention check.

CLEAN

Clean the harness as per CMM 71-50-03, section CLEANING.

INSPECT

Carry out a visual examination as per CMM 71-50-03, section CHECK. Record all defects.

DEFECTS:

1. Connector 410KS-A DR25 is split. Repair IAW repair 9. QTY x 25cm
2. Connector 410KS-A DR25 is split. Repair IAW repair 9. QTY x 90cm
3. Connector 410KS-B DR25 is split. Repair IAW repair 9. QTY x 70 cm.
4. The transition for 410KS-A/410KS-A need repair IAW repair 12.

REPAIR

Carry out any required repairs as per CMM 71-50-03, section REPAIR. Record the repairs carried out.

DEFECTS:

- Rectifications-
1. Connector 410KS-A DR25 is split. Repair IAW repair 9. QTY x 25cm
 2. Connector 410KS-A DR25 is split. Repair IAW repair 9. QTY x 90cm
 3. Connector 410KS-B DR25 is split. Repair IAW repair 9. QTY x 70 cm.
 4. The transition for 410KS-A/410KS-A need repair IAW repair 12.

1. DR 25 Replaced IAW Repair 9
2. DR 25 Replaced IAW Repair 9

Signature: _____

1. Approving Competent Authority / Country: EASA		2. AUTHORIZED RELEASE CERTIFICATE EASA FORM 1		3. Form Tracking Number: 17821	
4. Organisation Name and Address  Gas Turbine Solutions Limited Unit 1, 2A Kyle Road, Irvine Industrial Estate Irvine, KA12 8JF, Scotland, UK Tel: +44 (0) 1294 446115 Fax: +44 (0) 1294 441611 Email: mro@gtsmro.com		5. Work Order / Contract / Invoice Work Order No: W220442 Customer Order No: T37532			
6. Item	7. Description	8. Part No	9. Qty	10. Serial No	11. Status/Work
1	HARNESS, JUNCTION BOX TO THRUST RE	642W9821-501	1	06143606	OVERHAULED
12. Remarks UNIT OVERHAULED IN ACCORDANCE WITH CMM 71-50-03 REV 54, DATED MAR 31, 2022. FULL DETAILS OF THE WORK PERFORMED ARE ON FILE UNDER THE WORK ORDER REFERENCED IN BLOCK 5. HARNESS TSO/CSO: 0 ESN 779481					
14a. ☒ Part 145 A.50 Release to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.					
14b. Authorised Signature 		14c. Certificate / Approval Ref. No. EASA.UK.145.01282			
14d. Name BRIAN GAW		14e. Date (dd/mm/yyyy) 10/May/2022			

EASA Form 1 - MF/CAO/145 Issue 3

USER/INSTALLER RESPONSIBILITIES

This Certificate does not automatically constitute authority to install.

Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.

Statements in block(s) 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving Competent Authority / Country: CAA / UK		2. AUTHORIZED RELEASE CERTIFICATE CAA FORM 1		3. Form Tracking Number: UK-17821	
4. Organisation Name and Address  Gas Turbine Solutions Limited Unit 1, 2A Kyle Road, Irvine Industrial Estate Irvine, KA12 8JF, Scotland, UK Tel: +44 (0) 1294 446115 Fax: +44 (0) 1294 441611 Email: mro@gtsmro.com				5. Work Order / Contract / Invoice Work Order No: W220442 Customer Order No: T37532	
6. Item	7. Description	8. Part No	9. Qty	10. Serial No	11. Status/Work
1	HARNESS, JUNCTION BOX TO THRUST RE	642W9821-501	1	06143606	OVERHAULED
12. Remarks UNIT OVERHAULED IN ACCORDANCE WITH CMM 71-50-03 REV 54, DATED MAR 31, 2022. FULL DETAILS OF THE WORK PERFORMED ARE ON FILE UNDER THE WORK ORDER REFERENCED IN BLOCK 5. HARNESS TSO/CSO: 0 ESN 779481 The work identified in Block 11 and described herein has been accomplished in accordance with 14 CFR part 43 and in respect to that work, the items are approved for return to service under certificate no. 6GUY330C					
14a. ☒ Part 145.A.50 Release to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.					
14b. Authorised Signature 			14c. Certificate / Approval Ref. No. UK.145.01282		
14d. Name BRIAN GAW			14e. Date (dd/mm/yyyy) 10/May/2022		

USER/INSTALLER RESPONSIBILITIES

This Certificate does not automatically constitute authority to install.

Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.

Statements in block(s) 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.



Unit 1, 2A Kyle Road, Irvine Industrial Estate
Irvine, Ayrshire, KA12 8JF, Scotland, UK
Tel: +44 (0) 1294 446115
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Email: mro@gtsmro.com

Inspection Report

Work Order: **W220442**

Date Printed: 10 May 2022

Page: 1 of 1

Customer: AJ WALTER AVIATION LTD

Customer Ref: T37532

Attn:

Email:

Entry Date: 27 April 2022

Complete Date: 10 May 2022

Under Warranty?: No

Description: HARNESS, JUNCTION BOX TO THRUST REVERSER

TSN:

CSN:

Part No: 642W9821-501

Qty: 1

Serial No: 06143606

TASK DESCRIPTION

STATUS

TECHNICAL MANUAL

COMPLETE

Carry out all tasks as per CMM 71-50-03 Revision 54. Confirm revision status.

VERIFICATION OF P/N & S/N

COMPLETE

Check the part number and serial number.

*Taken from main i.d. label
p/n. 642W9821-501
s/n. 06143606*

AS RECEIVED TEST

COMPLETE

Carry out as received test as per CMM 71-50-03, section TEST AND FAULT ISOLATION. Record test results. Record calibrated tooling.

Tools 116 and 117.

- 1 Passed continuity test IAW Table 112. < 0.2 ohms.*
- 2 Passed harness in motion test. < 0.2 ohms.*
- 3 Passed continuity test from connector to backshell. < 0.01 ohms.*
- 4 Passed continuity test from connector to metal overbraid. < 10 milliohms.*
- 5 Passed Insulation resistance test at 500V Dc. > 1.5G ohms.*
- 6 Passed shorted wire test at 500V DC. > 2G ohms.*
- 7 Passed contact retention check.*

CLEAN

COMPLETE

Clean the harness as per CMM 71-50-03, section CLEANING.

INSPECT

COMPLETE

Carry out a visual examination as per CMM 71-50-03, section CHECK. Record all defects.

DEFECTS:

- 1. Connector 4101KS-A DR25 is split. Repair iaw repair 9. QTY x 25cm*
- 2. Connector 4100KS-A Dr25 is split. Repair iaw repair 9. QTYx 90cm*
- 3. Connector 4100KS-B DR25 is split. Repair iaw repair 9. QTY x 70 cm.*
- 4. The transition for 4100KS-A/4101KS-A need repair iaw repair 12.*

REPAIR

COMPLETE

Carry out any required repairs as per CMM 71-50-03, section REPAIR. Record the repairs carried out.

DEFECTS:

- 1. Connector 4101KS-A DR25 is split. Repair iaw repair 9. QTY x 25cm*
- 2. Connector 4100KS-A Dr25 is split. Repair iaw repair 9. QTYx 90cm*
- 3. Connector 4100KS-B DR25 is split. Repair iaw repair 9. QTY x 70 cm.*
- 4. The transition for 4100KS-A/4101KS-A need repair iaw repair 12.*

Rectifications-

- 1. DR 25 Replaced IAW Repair 9*
- 2. DR 25 Replaced IAW Repair 9*

Signature:



Unit 1, 2A Kyle Road, Irvine Industrial Estate
Irvine, Ayrshire, KA12 8JF, Scotland, UK
Tel: +44 (0) 1294 446115
Fax: +44 (0) 1294 441611
Email: mro@gtsmro.com

Inspection Report

Work Order: **W220442**

Date Printed: 10 May 2022

Page: 2 of 2

Customer: AJ WALTER AVIATION LTD

Customer Ref: T37532

Attn:

Email:

Entry Date: 27 April 2022

Complete Date: 10 May 2022

Under Warranty?: No

Description: HARNESS, JUNCTION BOX TO THRUST REVERSER

TSN:

CSN:

Part No: 642W9821-501

Qty: 1

Serial No: 06143606

- 3. DR 25 Replaced IAW Repair 9
- 4. Repaired IAW Repair 12.

FINAL TEST

COMPLETE

Carry out final test as per CMM 71-50-03, section TEST AND FAULT ISOLATION. Record test results. Record calibrated tooling.

- 1 Passed continuity test IAW Table 112. < 0.2 ohms.
- 2 Passed harness in motion test. < 0.2 ohms.
- 3 Passed continuity test from connector to backshell. < 0.01 ohms.
- 4 Passed continuity test from connector to metal overbraid. < 10 milliohms.
- 5 Passed Insulation resistance test at 500V Dc. >1.5G ohms.
- 6 Passed shorted wire test at 500V Dc. > 2G ohms.
- 7 Passed contact retention check.

Tools- T119, T120.

FINAL INSPECTION

COMPLETE

Carry out a final inspection including a general verification of the component.

Signature:



Gas Turbine Solutions Limited
Unit 1, 2A Kyle Road, Irvine Industrial Estate
Irvine, Ayrshire, KA12 8JF, Scotland, UK
Tel: +44 (0) 1294 446115
Fax: +44 (0) 1294 441611
Email: sales@gtsmro.com

Packing Slip

Invoice No: **I220327**
Date: **10 May 2022**
Page: **1 of 1**

VAT / EORI: GB 995 8196 43 000

To: AWAL1

AJ WALTER AVIATION LTD
THE HEADQUARTERS
MAYDWELL AVENUE
WEST SUSSEX RH13 0AS
UNITED KINGDOM

VAT:

Customer Ref: T37532

Buyer:

Ship To:

AJ WALTER AVIATION LTD
THE HEADQUARTERS
MAYDWELL AVENUE
WEST SUSSEX RH13 0AS
UNITED KINGDOM

FOB: IRVINE

Ship Via: DHL UK

AWB: 2512519085

Thank you for your order.

All goods are supplied as per our standard terms and conditions.

Item	Part Number	Description	Qty	Condition
1	642W9821-501 Serial No: 06143606	HARNESS, JUNCTION BOX TO THRUST REVERSER	1	OH
<i>UNIT OVERHAULED IN ACCORDANCE WITH CMM 71-50-03 REV 54, DATED MAR 31, 2022. FULL DETAILS OF THE WORK PERFORMED ARE ON FILE UNDER THE WORK ORDER REFERENCED IN BLOCK 5. HARNESS TSO/CSO: 0 ESN 779481</i>				
Weight: 4.00 KG				
No of Boxes: 1				