

1. Approving Competent Authority/ Country EASA		AUTHORISED RELEASE CERTIFICATE EASA FORM 1				3. Form Tracking Number 000000100163	
4. Organisation Name and Address : NORDAM Europe Limited 3, Hawtin Park BLACKWOOD Gwent NP12 2EU UNITED KINGDOM						5. Work Order/ Contract/ Invoice 500245555 T41027	
6. Item	7. Description	8. Part No.	9. Qty.	10. Serial No.	11. Status/ Work		
0001	REVERSER, CFM56-5B RH	642-3802-523	1	8287001	Repaired		
12. Remarks INSPECTED AND REPAIRED I.A.W GOODRICH CFM56-5B CMM 78-32-36 REV 72 DATED 31st MARCH 2023, CFM56-5B SRM REV 71 DATED 31st MAY 2023, CUSTOMER REQUESTED WORKSCOPE (MPD TASKS AT REV 47 DATED 2nd FEB 2022) 783001-01-1, 783002-01-1, 783003-01-1, 783004-01-1, 783004-02-1, 783000-C2-1, 783000-C4-1, 783000-C8-1, 783100C5-1, 783100-C6-1, 783100-C7-1, 783100-C8-1, 783200-02-1, AIRBUS A318-A321 AMM REV 32 DATED 1st MAY 2023, NORDAM ACIS REPORT No 9448 AND NORDAN APPROVED REPAIR SCHEMES SEE ATTACHED FORM NEL-F-155L (iss.02) – MPD TASK CLOSE OUT FORM AD / SB ACCOMPLISHED: - SB RA320178-104 REV 00 (26th JULY 2000) SB RA32078-137 REV 6 (30th OCT 2019) (REF EASA AD 2016-0076 & FAA AD 2017-11-07)							
ORIGINAL (STAMPED GREEN) THIS IS AN ORIGINAL RELEASE CERTIFICATE							
See attached continuation sheet for Block 12 secondary supportive information							
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in condition for safe operation ☐ Non approved design data specified in Block 12.			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.				
13b. Authorised Signature		13c. Approval/ Authorisation Number		14b. Authorised Signature		14c. Certificate / Approval Ref No.	
				 NA243		EASA.UK.145.00530	
13d. Name		13e. Date (dd mmm yyyy)		14d. Name		14e. Date (dd mmm yyyy)	
				James Puxty		15 DEC 2023	
USER/ INSTALLER RESPONSIBILITIES This certificate does not automatically constitute authority to install the item(s). 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 blocks 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.							

Form Tracking Number	Work Order/ Contract/ Invoice	Description	Part No	Serial/ Batch No
000000100163	500245555 T41027	REVERSER, CFM56-5B RH	642-3802-523	8287001

Continuation Sheet

REPAIRS ACCOMPLISHED:-

CFM56-5B CMM 78-32-36 TEST AND FAULT ISOLATION, ASSEMBLY, REP 10, REP 12, REP 13, REP 22, REP 23, REP 24, REP 25, REP 26, REP 28, REP 29, REP 30, REP 31, REP 34, REP 40, REP 43 (6B), REP 47, REP 48, REP 58, REP 59

CFM56-5B SRM 54-01-01 (2A), 54-02-07 PARA 4, 54-02-03 (3A-B), 54-30-00 REP 07, REP 08, REP 10, REP 12, REP 39 (6A)

AIRBUS A318-A321 - AMM 78-31-00-210-041-B, 78-31-41-210-042-B, 78-31-41-210-803-B, 78-31-41-720-040-B, 78-32-00-210-041-B,

78-32-00-210-042-B, 78-32-00-210-043-B, 78-32-00-210-044-B, 78-32-00-210-046-B, 78-32-00-210-827-C, 78-32-11-220-040-B,

78-32-41-210-042-B, 78-36-11-210-040-B

AIRBUS A318-A321 - SRM 51-75-12-911-005 REV 147 (1/11/23)

NORDAM EWO 500279203 (12/5/23), EWO 500281126 (21/6/23)

NORDAM NRP 4505-02-02 REV A

UKCAA PART 21 DESIGN APPROVAL No. – UK.21J.0024

TSN – 37,784:15 CSN – 31,826

1. Approving Competent Authority/ Country CAA/UK	AUTHORISED RELEASE CERTIFICATE CAA FORM 1				3. Form Tracking Number 000000100164
4. Organisation Name and Address : NORDAM Europe Limited 3, Hawtin Park BLACKWOOD Gwent NP12 2EU UNITED KINGDOM					5. Work Order/ Contract/ Invoice 500245555 T41027
6. Item	7. Description	8. Part No.	9. Qty.	10. Serial No.	11. Status/ Work
0001	REVERSER, CFM56-5B RH	642-3802-523	1	8287001	Repaired
12. Remarks INSPECTED AND REPAIRED I.A.W GOODRICH CFM56-5B CMM 78-32-36 REV 72 DATED 31st MARCH 2023, CFM56-5B SRM REV 71 DATED 31st MAY 2023, CUSTOMER REQUESTED WORKSCOPE (MPD TASKS AT REV 47 DATED 2nd FEB 2022) 783001-01-1, 783002-01-1, 783003-01-1, 783004-01-1, 783004-02-1, 783000-C2-1, 783000-C4-1, 783000-C8-1, 783100C5-1, 783100-C6-1, 783100-C7-1, 783100-C8-1, 783200-02-1, AIRBUS A318-A321 AMM REV 32 DATED 1st MAY 2023, NORDAM ACIS REPORT No 9448 AND NORDAN APPROVED REPAIR SCHEMES SEE ATTACHED FORM NEL-F-155L (iss.02) – MPD TASK CLOSE OUT FORM AD / SB ACCOMPLISHED: - SB RA320178-104 REV 00 (26th JULY 2000) SB RA32078-137 REV 6 (30th OCT 2019) (REF EASA AD 2016-0076 & FAA AD 2017-11-07)					
ORIGINAL (STAMPED GREEN) THIS IS AN ORIGINAL RELEASE CERTIFICATE					
See attached continuation sheet for Block 12 secondary supportive information					
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in condition for safe operation ☐ Non approved design data specified in Block 12.		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.			
13b. Authorised Signature	13c. Approval/ Authorisation Number	14b. Authorised Signature NA243		14c. Certificate / Approval Ref No. UK.145.00530	
13d. Name	13e. Date (dd mmm yyyy)	14d. Name James Puxty		14e. Date (dd mmm yyyy) 15 DEC 2023	
CAA Form 1 -MF/CAO/145 Issue 1 * Installer must cross-check eligibility with applicable technical data.					
AUTHORISED RELEASE CERTIFICATE - CAA Form 1 USER/ INSTALLER RESPONSIBILITIES					
This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulations of 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 blocks 13a and 14a do not constitute installation certification. In all cases the aircraft maintenance records must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.					

Form Tracking Number	Work Order/ Contract/ Invoice	Description	Part No	Serial/ Batch No
000000100164	500245555 T41027	REVERSER, CFM56-5B RH	642-3802-523	8287001

Continuation Sheet

REPAIRS ACCOMPLISHED:-

CFM56-5B CMM 78-32-36 TEST AND FAULT ISOLATION, ASSEMBLY, REP 10, REP 12, REP 13, REP 22, REP 23, REP 24, REP 25, REP 26, REP 28, REP 29, REP 30, REP 31, REP 34, REP 40, REP 43 (6B), REP 47, REP 48, REP 58, REP 59

CFM56-5B SRM 54-01-01 (2A), 54-02-07 PARA 4, 54-02-03 (3A-B), 54-30-00 REP 07, REP 08, REP 10, REP 12, REP 39 (6A)

AIRBUS A318-A321 - AMM 78-31-00-210-041-B, 78-31-41-210-042-B, 78-31-41-210-803-B, 78-31-41-720-040-B, 78-32-00-210-041-B, 78-32-00-210-042-B, 78-32-00-210-043-B, 78-32-00-210-044-B, 78-32-00-210-046-B, 78-32-00-210-827-C, 78-32-11-220-040-B, 78-32-41-210-042-B, 78-36-11-210-040-B

AIRBUS A318-A321 - SRM 51-75-12-911-005 REV 147 (1/11/23)

NORDAM EWO 500279203 (12/5/23), EWO 500281126 (21/6/23)

NORDAM NRP 4505-02-02 REV A

UKCAA PART 21 DESIGN APPROVAL No. – UK.21J.0024

TSN – 37,784:15 CSN – 31,826

The work identified in Block 11 and described herein has been accomplished in accordance with 14CFR part 43 and in respect to that work, the items are approved for return to service under Certificate No N1EY636N



CFM 56-5B THRUST REVERSER MPD TASK CLOSEOUT FORM

NEL-F-155L (Iss.02)

Page 1 of 6

CUSTOMER – A J WALTER AVIATION LTD

Serial No	8287001	Compiled by	NORDAM Europe Limited
Part No	642-3802-523	Date	10/05/2023
Description	Thrust Reverser	Hrs/Cycles	37784:15 / 31826
Internal Notification No	500245555	A/C Reg	VT-SCA

This report confirms that the referenced MPD/ A320 AMM tasks have been actioned and closed out in relation to the Thrust Reverser half.

General Visual Inspection of Thrust Reverser Blocker Door Seals (Blocker Doors in Deployed Position)

MPD Task 783000-C2-1 AMM 78-32-41-210-042B – 78-32-41 PB 600
Subtask 78-32-41-210-052-A

4.A. Examine the blocker door seal for:

- Damage
- Missing
- Cut

Condition Serviceable [☒]

Thrust Reverser Tension Hook Latch and Structure Inspection

MPD Task 783000-C4-1 AMM 78-36-41-210-040B – 78-36-41 PB 600
Subtask 78-36-41-210-052-A

4.A. Visual Inspection of the Door Latches, Bushings, Stirrups and Centering Pin

- Inspect the door latches for damage
- Inspect the related hardware of the door latches for damage
- Inspect the bushings for wear
- Inspect the stirrups for damage/Wear/Cracks
- Inspect the related stirrups hardware for damage
- Inspect the centering pins for damage
- Inspect the related centering pin hardware for damage
- Examine the thrust reverser structure adjacent to the door latches, look for :

- Cracks
- Loose Fastener
- Missing Fastener
- Damage

Condition Serviceable [☒]

Signature: **JEFF PECK**Stamp: **NA248**Date: **14/12/2023**

**CFM 56-5B THRUST REVERSER MPD TASK CLOSEOUT FORM**

NEL-F-155L (Iss. 02)

Page 2 of 6

Inspection of Thrust Reverser Inner Barrel Heatshields

MPD Task 783000-C8-1 AMM 78-32-11-210-040B – 78-32-11 PB 600
Subtask 78-32-11-210-052-A

4.A. Do a Visual Inspection of the inner barrel heatshield and fire protective coating as follows:

1. Inspect the inner barrel heatshields for:
 - a. Crack or hole
 - b. Gouge, nick and scratch
 - c. Missing or uncrimped rivets
 - d. Bulges, gaps
 - (1) At the exit heatshield trailing edge
 - (2) Heatshield other than trailing edge
 - e. Heat Coloration
2. Inspect thermal blanket outer foil:
 - a. Any/all damage
 - b. Security of attachment
3. Examine intumescent fireproof coating for:
 - a. Abrasion
 - b. Scratches
 - c. Holes. Peeling
4. Inspect thrust reverser fire seals for :
 - a. Damage
 - b. Cut
 - c. Missing Seal
 - d. Missing Fasteners
 - e. Misalignment

Condition Serviceable [**V**]

Signature:

Jeff Peck

Stamp: **NA248**Date: **14/12/2023**

**CFM 56-5B THRUST REVERSER MPD TASK CLOSEOUT FORM**NEL-F-155L (Iss.02)
Page 3 of 6**Detailed Inspection of Thrust Reverser 12 o'clock Beam Junction with the Forward Frame.**

MPD Task 783001-01 AMM78-32-00-210-044B - Ref CMM 78-32-36 Repair 02 and 12 and SRM 54-30-00 Repair 10

Evidence of Pitting / Corrosion:

Applicable [] Not Applicable [V]

Within Limits of 78-32-36 RP02 Table 601 [] Outside Limits of 78-32-36 RP02 Table 601 []

Within Limits of SRM 54-30-00 RP10 Table 602 [] Outside Limits of SRM 54-30-00 RP10 Table 602 []

Material Thickness Pre Blend – No Blend Required less than 0.001" (V)

Material Thickness Pre Blend () Material Thickness Post Blend ()

Detailed Visual Inspection of the Thrust Reverser Forward Frames to 6 o'clock Beam Joint

MPD Task 783002-01 AMM78-32-00-210-041-B - Ref CMM 78-32-36 Repair 02 and 13

Evidence of Pitting / Corrosion:

Applicable [] Not Applicable [V]

Within Limits of 78-32-36 RP02 Table 601 [] Outside Limits of 78-32-36 RP02 Table 601 []

Within Limits of 78-32-36 RP02 Table 602 [] Outside Limits of 78-32-36 RP02 Table 602 []

Material Thickness Pre Blend () Material Thickness Post Blend ()

MPD Task 783003-01**Detailed Visual Inspection of Thrust Reverser Forward Frame to 3/9 o'clock Beam Joint.**

Ref: AMM 78-32-00-210-042-B, Subtask 78-32-00-210-065-A Para 4 A.

With reference to subtask 78-32-00-210-122-A Para 4 B. Allowable Limits Table

Serviceable [V] Unserviceable []

Signature:

Jeff Peck

Stamp: **NA248**Date: **14/12/2023**

**CFM 56-5B THRUST REVERSER MPD TASK CLOSEOUT FORM**

NEL-F-155L (Iss. 02)

Page 4 of 6

Special Detailed Inspection (HFEC) of Thrust Reverser Forward Frame at Actuator Attachment

MPD Task 783004-01 AMM 78-32-00-210-043-B Ref CMM 78-32-36 Repair 03 para 3C

CMM 78-32-36 Repair 3 para 3C MUST BE COMPLETED irrespective of no damage foundEvidence of Pitting / Corrosion:
Applicable ☐ Not Applicable ☐Within Limits of 78-32-36 RP03 Table 601 ☐ Outside Limits of 78-32-36 RP03 Table 601 ☐Within Limits of 78-32-36 RP03 Table 602 ☐ Outside Limits of 78-32-36 RP03 Table 602 ☐Within Limits of 78-32-36 RP03 Table 603 ☐ Outside Limits of 78-32-36 RP03 Table 603 ☐

Material Thickness Pre Blend () Material Thickness Post Blend ()

Detailed Visual Inspection of the Thrust Reverser Forward Frame at Actuator Attachment

MPD Task 783004-02 AMM 78-32-00-210-046-B Ref CMM 78-32-36 RP03)

Evidence of Pitting / Corrosion:
Applicable ☐ Not Applicable ☒Within Limits of 78-32-36 RP03 Table 601 ☐ Outside Limits of 78-32-36 RP03 Table 601 ☐Within Limits of 78-32-36 RP03 Table 602 ☐ Outside Limits of 78-32-36 RP03 Table 602 ☐Within Limits of 78-32-36 RP03 Table 603 ☐ Outside Limits of 78-32-36 RP03 Table 603 ☐

Material Thickness Pre Blend () Material Thickness Post Blend ()

Detailed Visual Inspection of Thrust Reverser Blocker Door Actuator Rod End Attachments

MPD Task 783100-C5-1 AMM 78-31-41-210-042-B - 78-31-41 PB 600

AMM Subtask 78-31-41-210-051-A, Airbus Service Bulletin 78-1032, ROHR Service Bulletin RA32078-127

- 4.A. Remove the blocker door hydraulic actuator clevis for access
4.B Do an inspection of the clevis and the related hardware as follows:

1. Examine the clevis and related hardware for:

- a. Damage
- b. Missing
- c. Corrosion of the clevis
- d. Corrosion found within the clevis bore area

2. Examine the blocker door actuator rod for:

- a. Scratch

4.C. Install the hydraulic actuator clevis

Condition Serviceable ☒

Signature:

Jeff Peck

Stamp: NA248

Date: 14/12/2023

**CFM 56-5B THRUST REVERSER MPD TASK CLOSEOUT FORM**

NEL-F-155L (Iss.02)

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Thrust Reverser Control and Indicating Operational Check

MPD Task 783100-C6-1 AMM 78-31-00-710-042-A – AMM 78-31-00 PB 500
AMM 78-31-41-720-040-B - AMM 78-31-41 PB 500

Subtask 78-31-00-710-050-A

4. A. Thrust Reverser Control and Indicating – Adjustment/Test – **Not Carried out by NORDAM**

Subtask 78-31-41-869-053-B

4. A. Operational Test of the Secondary Lock

Condition Serviceable [**V**]

Thrust Reverser Control and Indicating Primary Latch Mechanism

MPD Task 783100-C7-1 AMM 78-31-00-210-041-B – 78-31-00 PB 600
With ref to Blocker Door Maintenance Practices
AMM 78-32-41-480-001-A – 78-32-41 PB 200
AMM 78-32-41-860-001-A – 78-32-41 PB 200
AMM 78-32-41-860-002-A – 78-32-41 PB 200

Subtask 78-31-00-210-053-A

4.A. Do a visual inspection of the primary latch mechanism as follows:

1. Examine each blocker door latch mechanism for:

A. Damage

B. Leakage

2. Examine the latch hook for:

A. Damage

3. Examine the latch fitting and roller for:

A. Damage

B. Jamming

4. Examine the parts that attach the latch fitting and roller, look for:

A. Loose Fastener

B. Missing Fastener

Condition Serviceable [**V**]

Signature:

Jeff Peck

Stamp: **NA248**Date: **14/12/2023**

**CFM 56-5B THRUST REVERSER MPD TASK CLOSEOUT FORM**NEL-F-155L (Iss. 02)
Page 6 of 6**General Visual Inspection of Actuator Rod End Attachments (Blocker Doors Deployed)**

MPD Task 783100-C8 AMM 78-31-41-210-803B

This task is available only for A/C equipped with actuator fitting Assy P/N 321-322-901-0, which contains fitting P/N 321-313-501-6. For further information refer Airbus SB 78-1032/VSBRA32078-127

Note: P/N 321-322-901-0 is the P/N of the fitting assembly itself. P/N 321-313-501-6 is the P/N of the fitting.

Subtask 78-31-41-210-065-A

4. A. Do a visual inspection of the clevis and the related hardware as follows:

1. Examine the clevis and the related hardware for:
 - A. Damage - No damage permitted
 - B. Missing – None permitted
 - C. Bolts protrusion through the locking feature of the nut – Bolt must be a minimum of 1.5 threads through nut
2. Examine the blocker door actuator for:
 - A. Scratch – No scratch permitted

Condition Serviceable [☒]

Signature:

Jeff Peck

Stamp: **NA248**Date: **14/12/2023****'C' Duct Hinge Fittings Detailed Inspection**

MPD Task 783200-02-1 AMM 78-32-00-210-827-C – AMM 78-32-00 PB 600

Subtask 78-32-00-010-201-A

3. D. Remove the Hinge Access Panel **Not Carried out by NORDAM**

Subtask 78-32-00-210-116-A

4. A. Do a detailed inspection of the 'C' duct hinge fittings as per ROHR CMM 78-32-36 Repair No 1.

Note: This CMM repair has been superseded by ROHR SRM 54-30-00 Repair No 007

Subtask 78-32-00-410-187-A

5. A. Install the Hinge Access Panel **Not Carried out by NORDAM**Condition Serviceable [☒]

Signature:

Jeff Peck

Stamp: **NA248**Date: **14/12/2023**