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V2500 A1/A5 SERIES NACELLE SERVICE BULLETIN

Printed in Great Britain

This document transmits the Initial Issue of Service Bulletin NV2500-78-0214

Bulletin Initial Issue

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Printed in Great Britain

NACELLE – THRUST REVERSER – UPPER BIFURCATION – INTRODUCTION OF A THREE-PIECE SEAL
DEPRESSOR ON THE SEAL LAND ASSEMBLY

SUMMARY

1. PLANNING

A. EFFECTIVITY

Engines

V2500-A1 and V2500-A5

Nacelles

All V2500-A1 thrust reversers.

V2500-A5 thrust reversers prior to N6832 (thrust reversers prior to Serial No. 8857001).

B. CONCURRENT REQUIREMENTS

None.

C. REASON/PROBLEM

Problem:

An engineering review of the current thrust reverser upper bifurcation seal land structure has identified a design refinement that will replace a one-piece, 6AL-4V titanium seal depressor with a three-piece, CRES 321 seal depressor and streamline the overhaul maintenance-level seal depressor replacement procedure. V2500-A1 and V2500-A5 thrust reversers prior to N6832 (Serial No. 8857001).

Evidence:

Current thrust reverser upper bifurcation seal land structure contains a continuous seal, fastened in place by 30 rivets. The new design allows for replacement of an individual section of the depressor seal, should it become damaged, with no more than 13 fasteners and as few as eight fasteners.

Substantiation:

A fit check of the new parts has been successfully performed by the manufacturer.

Objective:

To introduce a new, three-piece CRES 321 seal depressor with superior sealing properties and reduced overhaul maintenance burden to operators.



D. DESCRIPTION

The change introduced in this Service Bulletin is a new, three-piece CRES 321 seal depressor for the current one-piece, titanium seal land of the thrust reverser upper bifurcation area. The new part is manufactured with improved efficiency and eliminates excessive material waste during the SPF process.

E. COMPLIANCE

Category 7

Accomplish when supply of superseded parts has been depleted.

F. MANPOWER

Estimated man-hours to incorporate the intent of this Service Bulletin on each thrust reverser:

In Service

Not applicable

At Overhaul

1.0 man-hour

G. INTERCHANGEABILITY OF PARTS

Not affected.

2. MATERIAL INFORMATION

Not affected.

NACELLE – THRUST REVERSER – UPPER BIFURCATION – INTRODUCTION OF A THREE-PIECE SEAL
DEPRESSOR ON THE SEAL LAND ASSEMBLY

1. Planning Information

A. Effectivity

(1) Airbus A319:

(a) V2522-A5, V2524-A5, V2527M-A5 Thrust Reversers prior to Serial No. 8857001.

(2) Airbus A320:

(a) All V2500-A1 Thrust reversers.

(b) V2527-A5 and V2527E-A5 Thrust Reversers prior to Serial No. 8857001.

(3) Airbus A321

(a) V2530-A5 and V2533-A5 Thrust Reversers prior to Serial No. 8857001.

B. Concurrent Requirements

There are no concurrent Service Bulletin requirements.

C. Reason

(1) Problem

An engineering review of the current thrust reverser upper bifurcation seal land structure has identified a design refinement that will replace a one-piece, 6AL-4V titanium seal depressor with a three-piece, CRES 321 seal depressor and streamline the overhaul maintenance-level seal depressor replacement procedure.

(2) Cause

Current thrust reverser upper bifurcation seal land structure contains a continuous seal, fastened in place by 30 rivets. The new design allows for replacement of an individual section of the depressor seal, should it become damaged, with no more than 13 fasteners and as few as eight fasteners.

(3) Background

The new, three-piece CRES 321 seal depressor allows for reduction in operator overhaul maintenance-related tasks. The new part is manufactured with improved efficiency and eliminates excessive material waste during the SPF process.

(4) Objectives

To introduce a new, three-piece CRES 321 seal depressor with superior sealing properties and reduced overhaul maintenance burdens.

(5) Substantiation

A fit check of the new parts has been successfully performed.

D. Description

The change introduced in this Service Bulletin is a new, three-piece CRES 321 seal depressor for the current one-piece, titanium seal land of the thrust reverser upper bifurcation area.

E. Compliance

Category Code 7 – Seal Land Upper Bifurcation Structure

Accomplish when supply of superseded parts has been depleted.

F. Approval

The technical content of this Service Bulletin has been approved under the authority of the EASA Design Organization Approval No. EASA.21J.031. The authorizing IAE document is EC 01VN710D. In addition, the part number changes and/or part modifications that are given in Sections 2 and 3 of the Service Bulletin comply with the applicable Federal Aviation Regulations and are FAA approved for engine model(s) listed.

G. Manpower

1.0 man-hour at overhaul.

NOTE: The seal land of the upper bifurcation area affected by this Service Bulletin is accessible only at Overhaul.

H. Material Cost and Availability

Not applicable.

I. Tooling

No special tools are required.

J. Weight and Balance

This change adds 0.67 lbs (0.304 kg) per nacelle.

K. References

- (1) IAE V2500 Standard Practices/Processes Manual (SPP-V2500-1IA) – 70-09-00.
- (2) A320/V2500-A1, A319/A320/A321/V2500-A5 Thrust Reverser Component Maintenance Manual (CMM-TR-V2500-1IA) – 78-30-00.
- (3) A319/A320/A321/V2500-A1/A5 Airbus Aircraft Maintenance Manual (AMM) – 78-32-01, 78-32-02, 78-32-03, and 78-32-04.
- (4) IAE Engineering Change Number – EC 01VN710D.
- (5) Airbus Aircraft Modifications No.21948/P8532 and No.24259/P8532.
- (6) ATA Locator – 78-30-00.

L. Other Publications Affected

A320/V2500-A1, A319/A320/A321/V2500-A5 Aircraft Illustrated Parts Catalog – 78-32-49 or 78-32-79.

2. Material Information

A. Kit required consist of the following parts:

None.

B. Parts to be Reworked:

None.

C. New Production Parts:

78-30-00

FIG ITEM NUMBER	NEW PART NUMBER	QTY	PART TITLE	MAT	OLD PART NUMBER	INSTR/ DISPOS
31-479	740-0393-519	1	Seal Land Assy		740-0393-515	(A)(1)
31-480	740-0393-521	1	Seal Depressor		---	(A)(1)
31-478	740-0393-523	1	Seal Depressor		---	(A)(1)
32-398	740-0393-520	1	Seal Land Assy		740-0393-516	(A)(1)
32-399	740-0393-522	1	Seal Depressor		---	(A)(1)
32-397	740-0393-524	1	Seal Depressor		---	(A)(1)
---	740-0393-23	1	Clip		740-0393-5	(B)
32-515B	740-0515-595	1	Panel Assy, Bonded Inner Barrel		740-0515-591	(A)

D. Redundant Parts:

None.

E. Instructions/Dispositions Code Statements:

(A) Old and new parts are fully interchangeable in complete sets.

(1) New parts must be fitted as a set. Mixing of old and new parts is not permitted.

(B) New part is available.

F. Materials Required to do this Service Bulletin:

None.

3. Accomplishment Instructions

- A. The Thrust Reverser Assembly design change introduced by this Service Bulletin is interchangeable with the existing assembly. Remove and install new in accordance with current overhaul or maintenance procedures (Aircraft Maintenance Manual, 78-32-01, -02, -03, and -04).
- B. No record of accomplishment is required.