



SERVICE BULLETIN

NACELLE - EXHAUST - NO. 1 LATCH OPEN INDICATOR STAINLESS GUIDE PAD INSTALLATION, THRUST REVERSER - MODIFICATION OF - CATEGORY CODE 6 - MOD.NAC-78-0092

1. Planning Information

A. Effectivity

- (1) Airplane: (a) Airbus A320
(b) Airbus A321
- (2) Nacelle: (a) V2500-A1 and A5 thrust reversers cum units (c/u) 6
thru 326 and serial numbers prior to 0429001.

B. Reason

(1) Condition

The red flag on the No. 1 open latch indicator may show excessive wear.

(2) Background

Operators have experienced excessive flag wear caused by stainless steel guide pads or the absence of guide pads.

(3) Objective

Install new guide pads to reduce the wear on the flag.

(4) Substantiation

Not applicable.

(5) Impact of the Bulletin on Workshop Procedures:

Removal/Installation	Affected
Disassembly/Assembly	Not affected
Cleaning	Not affected
Inspection/Repair	Not affected
Repair	Not affected
Testing	Not affected

(6) Supplemental Information

None.

C. Description

- (1) The change introduced by this Bulletin is as follows:

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Part 1

Part 1 of this Service Bulletin is for thrust reversers with stainless steel guide pads installed and instructs removal of the old guide pads and installation of the new guide pads.

Part 2

Part 2 of this Service Bulletin is for thrust reversers without guide pads installed and instructs installation of the new guide pads.

D. Approval

The part number changes and/or part modifications described in Paragraphs 2 and 3 of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA approved for the equipment model(s) listed.

E. Compliance

Category Code 6

Accomplish when the Nacelle subassembly (i.e. accessories, components) is disassembled sufficiently to afford access to the affected part and to all affected spare parts.

F. Manpower

Estimated manhours to incorporate the full intent of this bulletin:

VENUE	ESTIMATED MANHOURS
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Part 1

(1) In Service	N/A
(2) In Shop	
(a) To Rework	1.0 M/Hrs.
Total	1.0 M/Hrs

Part 2

(1) In Service	N/A
(2) In Shop	
(a) To Rework	1.0 M/Hrs.

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Total 1.0 M/Hrs

G. Material Cost and Availability

The parts to accomplish this Service Bulletin are available from the manufacturer as Kit No. V2578092-551.

Formal kit prices and delivery schedules will be furnished to operators upon receipt of their written request. (Prices shown in Paragraph 3, "Material Information", are listed for planning purposes only, and are subject to change without notice.)

Direct purchase order to:
Rohr Inc.
P.O. Box 878
Chula Vista, CA 91912
U.S.A
Attn: Manager, Spares Operations - Bld 107A
(Ref. Service Bulletin No. V2500-NAC-78-0092)

H. Tooling Cost and Availability

None required.

I. Weight and Balance

- | | |
|-------------------------|---|
| (1) Weight change | Negligible |
| (2) Moment arm | No effect |
| (3) Datum | Engine Front Mount Centerline (Pow
erplant Station PPS 100.00) |

J. Electrical Load Data

Not affected.

K. References

- (1) Internal Reference No.
93VN060
- (2) Other References
A320/A321 Aircraft Maintenance Manual 78-32-00
V2500 Standard Practices/Processes Manual (SPP-V2500-11A) 70-09-00

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Overhaul Processes and Consumable Index (PCI-V2500-1IA)

L. Other Publications Affected

A320/V2500-A1 Engine Illustrated Parts Catalog (S-V2500-1IA) 71-00-23
78-32-01
78-32-02
78-32-03
78-32-04

A320/V2500-A5 Engine Illustrated Parts Catalog (S-V2500-2IA) 71-00-23
78-32-01
78-32-02
78-32-03
78-32-04

A320/V2500A1 Power Plant Illustrated Parts Catalog (PIP-V2500-1IA) 71-00-23
78-32-01
78-32-02
78-32-03
78-32-04

A320/A321/V2500A5 Power Plant Illustrated Parts Catalog (PIP-V2500-2IA) 71-00-23
78-32-01
78-32-02
78-32-03
78-32-04

A320/V2500A1 Power Plant Build-Up Manual (PPB-V2500-1IA) 71-00-02

A320/A321/V2500A5 Power Plant Build-Up Manual (PPB-V2500-2IA) 71-00-02

2. Accomplishment Instructions

A. Prerequisite Instructions

None.

B. Thrust Reverser Guide Pads Removal/Installation - Part 1

(1) Remove the stainless steel guide pads.

(a) Remove the MS21043-04 nuts, NAS7500-04 bolts, pads, and shims from the thrust reverser halves. Discard the pads and shims. Keep the nuts for later installation. Keep the bolts for other aircraft installations.

(2) Install the 740-0136-49/50 guide pads and 740-0136-43 shims.

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- (a) Hold the 740-0136-49 pad and 740-0136-43 shim together. Make sure the shim is against the flat (not beveled) side of the pad. Backdrill the two 0.368-0.390 (9.35-9.91 mm) holes and one 0.127-0.133 inch (3.23-3.38 mm) hole through the shims. Refer to Figure 2.
- (b) Hold the 740-0136-50 pad and 740-0136-43 shim together. Make sure the shim is against the flat (not beveled) side of the pad. Backdrill the two 0.368-0.390 inch (9.35-9.91 mm) holes and one 0.127-0.133 inch (3.23-3.38 mm) hole through the shims.
- (c) Temporarily install the pads and shims with the NAS1102E04-7 screws, NAS1149CN416R washers, and MS21043-04 nuts. Adjust the clearance between the latch open indicator and the pads when the thrust reverser and engine are installed on the aircraft. Refer to the A320/A321 Aircraft Maintenance Manual, Chapters 78-32-01, -02, -03, and -04.

D. Thrust Reverser Guide Pads Installation - Part 2

- (1) Hold the 740-0136-49 pad and 740-0136-43 shim together. Make sure the shim is against the flat (not beveled) side of the pad. Backdrill the two 0.368-0.390 (9.35-9.91 mm) holes and one 0.127-0.133 (3.23-3.38 mm) inch hole through the shims. Refer to Figure 2.
- (2) Hold the 740-0136-50 pad and 740-0136-43 shim together. Make sure the shim is against the flat (not beveled) side of the pad. Backdrill the two 0.368-0.390 inch (9.35-9.91 mm) holes and one 0.127-0.133 inch (3.23-3.38 mm) hole through the shims.
- (3) Put the pads and shims on the thrust reverser halves and back drill a 0.127-0.133 inch (3.23-3.38 mm) hole through the lower track.
- (4) Temporarily install the pads and shims with the NAS1102E04-7 screws, NAS1149CN416R washers, and MS21043-04 nuts. Adjust the clearance between the latch open indicator and the pads when the thrust reverser and engine are installed on the aircraft. Refer to the A320/A321 Aircraft Maintenance Manual, Chapters 78-32-01, -02, -03, and -04.

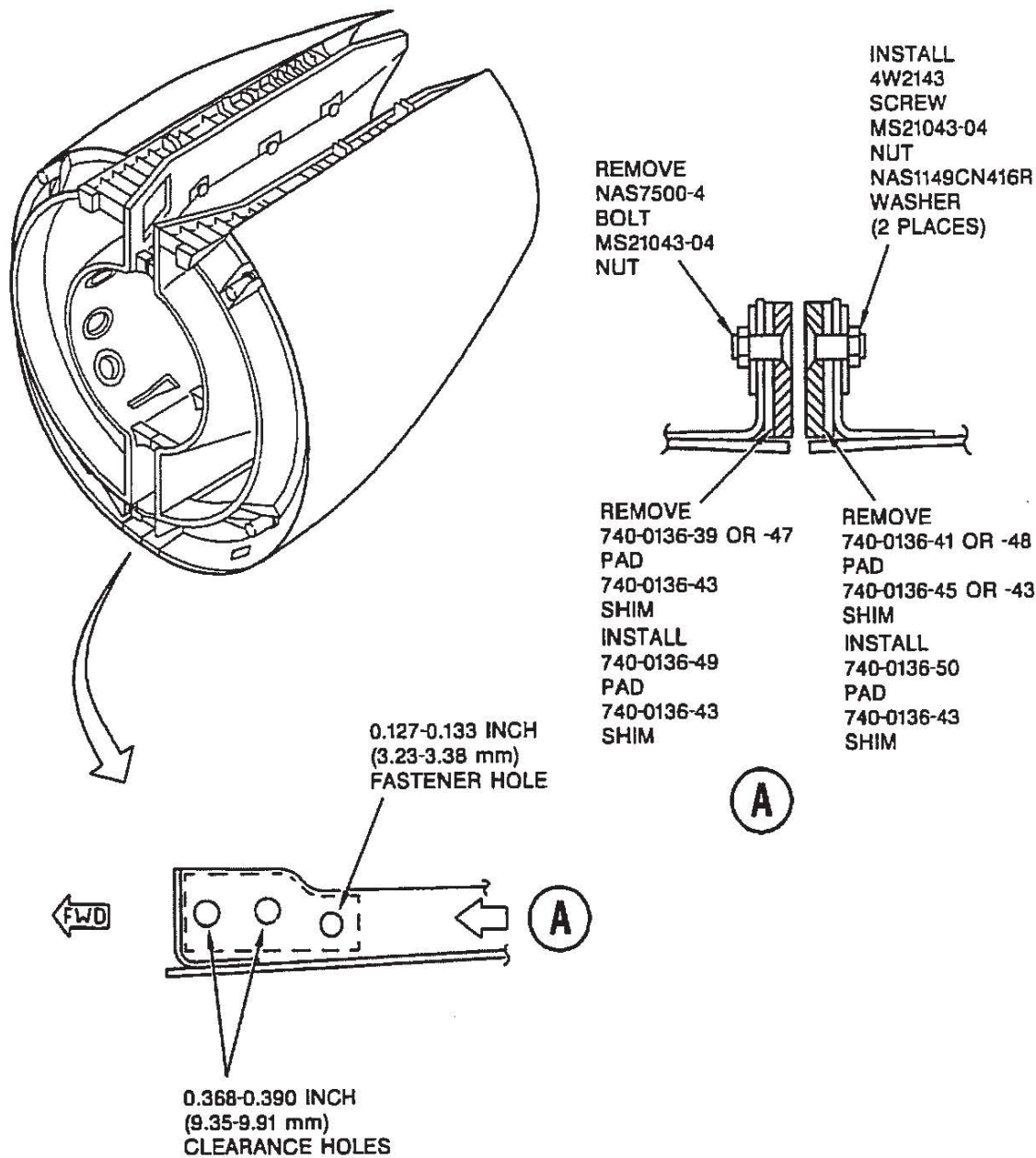
C. Post-requisite Instructions

None.

D. Recording Instructions

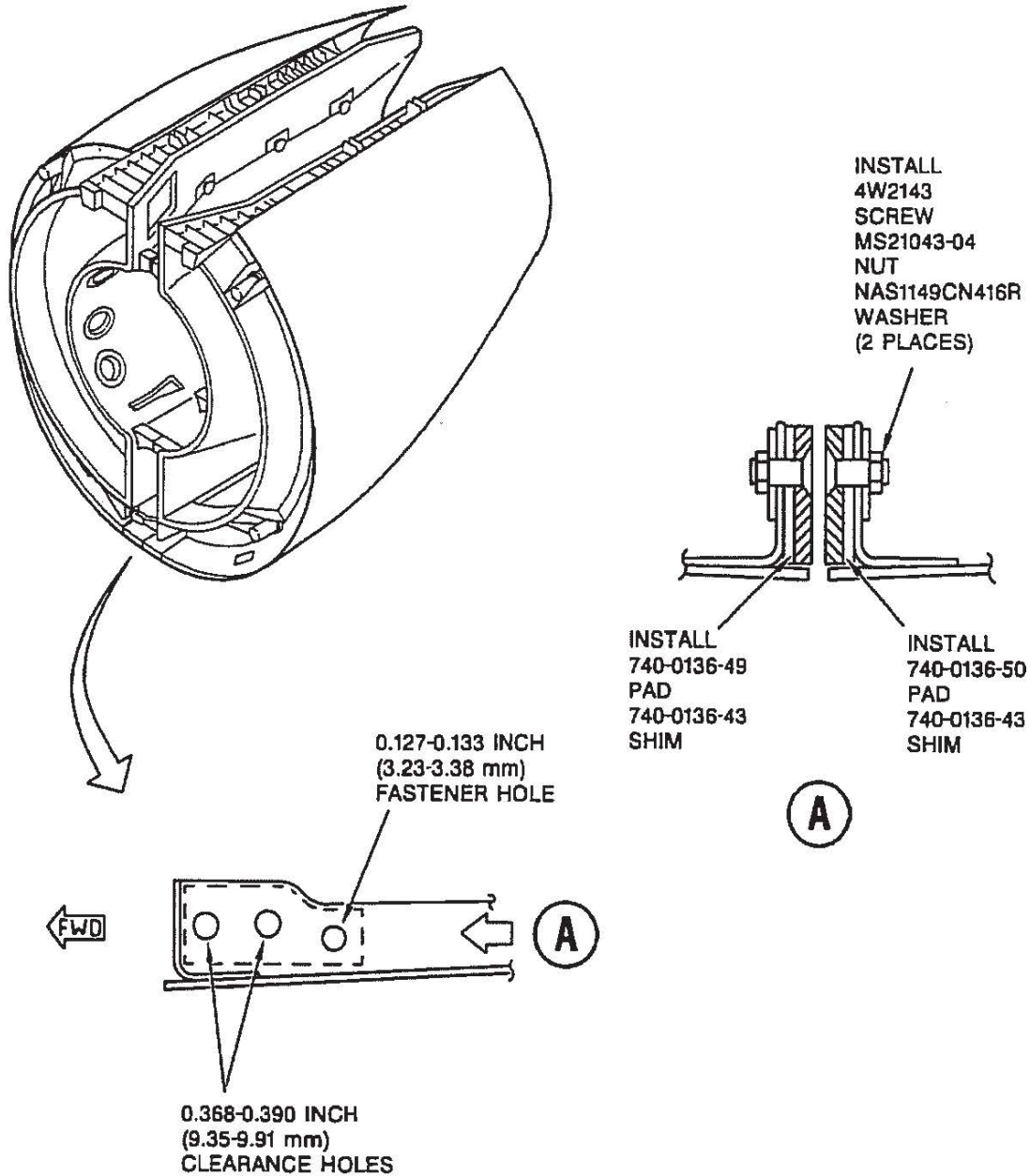
- (1) A record of accomplishment is necessary. Write in the applicable records and metal stamp, vibroetch, or electroetch on the thrust reverser data plate that Service Bulletin V2500-NAC-78-0092 has been done. Refer to IAE V2500 Standard Practices/Processes Manual, Chapter 70-09-00.

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No. 1 Latch Open Indicator Pad Removal/Installation (Service Bulletin Part 2)
Fig.2

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No. 1 Latch Open Indicator Pad Installation (Service Bulletin Part 3)
Fig.2

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3. Material Information

Applicability: For each V2500-A1/A5 thrust reverser to incorporate this Bulletin.

A. Kits associated with this Bulletin:

NEW PART NO (ATA NO.)	QTY	EST'D UNIT PRICE	KEYWORD	OLD PART NO (IPC NO.)	INSTR/ DISPOS
V2578092-551 Consisting of:		1,114.00	Kit		(A)
MS21043-04	2		Nut		
NAS1149CN416R	2		Washer		
4W2143	2		Screw		
740-0136-43	2		Shim		
740-0136-49	1		Pad		
740-0136-50	1		Pad		

B. Parts affected by this Bulletin:

Part 1

MS21043-04 (78-32-01)	1	Nut	MS21043-04 (01-140)	(C)
NAS1149CN416R (78-32-01)	1	Washer	- - - (01-143)	(C)
4W2143 (NAS1102E04-7) (78-32-01)	1	Screw	NAS75004-04 (01-45)	(A)(B)(C) (S1)
740-0136-43 (78-32-01)	1	Shim	740-0136-43 (01-155)	(C)
740-0136-49 (78-32-01)	1	Pad	740-0136-47 (01-160)	(A)(B)(C) (S1)
MS21043-04 (78-32-01)	1	Nut	MS21043-04 (01-145)	(C)

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NAS1149CN416R (78-32-02)	1	Washer	- - - (01-147)	(C)
4W2143 (NAS1102E04-7) (78-32-02)	1	Screw	NAS7500-04 (01-150)	(A)(B)(C) (S1)
740-0136-43 (78-32-02)	1	Shim	740-0136-43 (01-160)	(C)
740-0136-49 (78-32-02)	1	Pad	740-0136-47 (01-165)	(A)(B)(C) (S1)
MS21043-04 (78-32-03)	1	Nut	MS21043-04 (01-145)	(C)
NAS1149CN416R (78-32-03)	1	Washer	- - - (01-147)	(C)
4W2143 (NAS1102E04-7) (78-32-03)	1	Screw	NAS7500-04 (01-150)	(A)(B)(C) (S1)
740-0136-43 (78-32-03)	1	Shim	740-0136-43 (01-160)	(C)
740-0136-50 (78-32-03)	1	Pad	740-0136-48 (01-165)	(A)(B)(C) (S1)
MS21043-04 (78-32-04)	1	Nut	MS21043-04 (01-145)	(C)
NAS1149CN416R (78-32-04)	1	Washer	- - - (01-147)	(C)
4W2143 (NAS1102E04-7) (78-32-04)	1	Screw	NAS7500-04 (01-150)	(A)(B)(C) (S1)
740-0136-43 (78-32-04)	1	Shim	740-0136-43 (01-160)	(C)
740-0136-50 (78-32-04)	1	Pad	740-0136-48 (01-165)	(A)(B)(C) (S1)
Part 2				
MS21043-04 (78-32-01)	1	Nut	- - - (01-140)	(C)

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NAS1149CN416R (78-32-02)	1	Washer	- - - (01-143)	(C)
4W2143 (NAS1102E04-7) (78-32-01)	1	Screw	- - - (01-145)	(C)
740-0136-43 (78-32-01)	1	Shim	- - - (01-155)	(C)
740-0136-50 (78-32-01)	1	Pad	- - - (01-160)	(C)
MS21043-04 (78-32-02)	1	Nut	- - - (01-145)	(C)
NAS1149C416R (78-32-01)	1	Washer	- - - (01-147)	(C)
4W2143 (NAS1102E04-7) (78-32-02)	1	Screw	- - - (01-150)	(C)
740-0136-43 (78-32-02)	1	Shim	- - - (01-155)	(C)
740-0136-50 (78-32-02)	1	Pad	- - - (01-165)	(C)
MS21043-04 (78-32-03)	1	Nut	- - - (01-145)	(C)
NAS1149CN416R (78-32-03)	1	Washer	- - - (01-147)	(C)
4W2143 (NAS1102E04-7) (78-32-03)	1	Screw	- - - (01-150)	(C)
740-0136-43 (78-32-03)	1	Shim	- - - (01-160)	(C)
740-0136-50 (78-32-03)	1	Pad	- - - (01-165)	(C)
MS21043-04 (78-32-04)	1	Nut	- - - (01-145)	(C)
NAS1149CN416R (78-32-04)	1	Washer	- - - (01-147)	(C)

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4W2143 (NAS1102E04-7) (78-32-04)	1	Screw	- - - (01-150)	(C)
740-0136-43 (78-32-04)	1	Shim	- - - (01-160)	(C)
740-0136-50 (78-32-04)	1	Pad	- - - (01-165)	(C)

C. Instructions/Disposition Code Statements:

- (A) Old part is no longer available.
- (B) New part is available.
- (C) Part is supplied as a detail of the kit.
- (S1) New parts coded S1 must replace old parts as a complete set.

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