



Subject: Transmittal of Revision 3 to Service Bulletin No. V2500-ENG-72-0127

Service Bulletin Revision History:

<u>Event</u>	<u>Date</u>
Basic issue	Feb. 20/92
Revision 1	July.24/92
Revision 2	Oct. 27/92
Revision 3	Jan. 18/93

Reason for Issuance of Revision

To revise effectivity.

List of Effective pages:

	<u>Bulletin</u> <u>Page No.</u>	<u>Rev.</u> <u>No.</u>	<u>Effective</u> <u>Date</u>
R	1 to 2	3	Jan.18/93
	3 to 9	1	Jul.26/92

V2500-ENG-72-0127

Transmittal

Page 1 of 1



V2500 Propulsion System — Engine

SERVICE BULLETIN

INFORMATION - ENGINE - PROVIDE A NEW DEOILER CARBON SEAL
(FOR CONTROLLED SERVICE USE)

MODEL APPLICATION

V2500-A1 Engines

BULLETIN INDEX LOCATOR

72-60-00

Compliance Category Code

Not affected

Internal Reference No.

EC90VF022

EC92VF802

Feb.20/92

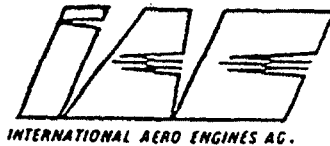
V2500-ENG-72-0127

Revision 3 Jan.18/93

Not subject to the EAR per 15 C.F.R. Chapter 1, Part 734.3(b)(3).

Page 1 of 9

Printed in



V2500 Propulsion System — Engine

SERVICE BULLETIN

INFORMATION - ENGINE - PROVIDE A NEW DEOILER CARBON SEAL
(FOR CONTROLLED SERVICE USE)

1. Planning Information

A. Effectivity

(1) Aircraft: Airbus A320

(2) Engine: Only those V2500-A1 Engines listed below:

V0019, V0025, V0029, V0085, V0089, V0090, V0101, V0103, V0182,
V0250.

B. Reason

(1) To gain service experience on a new deoiler carbon seal featuring a pressure balance design and an aluminium seal support to improve thermal dispersion.

This configuration should prevent oil coking on deoiler carbon seal.

C. Compliance

Not applicable.

This service bulletin is released for purposes of controlled service introduction.

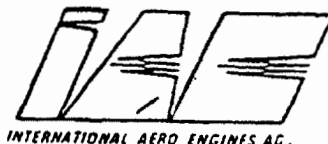
D. Approval

The requirement specified in Paragraph G. of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine model listed.

E. Tooling - Price and Availability

<u>Tool No</u>	<u>Qty</u>	<u>Description</u>	<u>Function</u>	<u>Avail</u>
1F10067	1	Puller, removal	Remove the air port casing	(1)
1F10069	1	Puller, removal	Remove the mating ring	(1)
1F10070	1	Pusher, installation	Install the mating ring	(1)
1F10072	1	Pusher, installation	Install the air port casing	(1)

(1) Shows that the Tool Design Aperture Cards are available at this time from IAE



INFORMATION BULLETIN

F. References

- (1) IAE Engineering Change No.90VF022
- R (2) IAE Engineering Change 92VF802
- R (3) A320 Aircraft Maintenance Manual

G. Action

- (1) Put a warning notice to tell persons not to start the engine 1 (2)
- (2) Make sure that the engine 1 (2) has been shutdown for at least 5 minutes.
- (3) Make sure that the On legend of the ENG FADEC GND PWR pushbutton switch is off.
- (4) Install a warning notice.
- (5) Open the Fan Cowls by the approved procedure in Reference (2), Chapter/Section 71-13-00, Maintenance Practices.
- (6) Remove the gearbox breather outlet duct by the approved procedure in Reference (2) Chapter/Section 72-61-49 Removal/Installation.
- (7) Remove the seal assembly (Ref Fig 1)
 - (a) Remove the three bolts (5) and the washers (4) which attach the seal assembly (3) to the deoiler casing (2).
 - (b) Install the puller, IAE 1F10067 on to the seal assembly (3)
 - (c) Use the puller, IAE 1F10067, to remove the seal assembly (3)
 - (d) Remove and discard the packing (1).
 - (e) Remove the puller IAE 1F10067 from the seal assembly (3)
 - (f) Discard the seal assembly.

R NOTE 1: P/N 7T0302 mating ring have to be replaced on 5 engines only.
R Remaining five mating rings must be inspected for coking
R evidence and other damage. If there is coking or other damage
R the mating ring must be replaced or removed.

R NOTE 2: It is recommended to remove the mating ring for lapping
R before reuse.

- (8) Remove the mating ring. (Ref Fig 2)
 - (a) Install the puller, IAE 1F10069 on the mating ring (2)



INFORMATION BULLETIN

(b) Use the puller, IAE 1F10069 to remove the mating ring (2).

(c) Remove and discard the packing (1).

R (d) Lap the sealing face of the mating ring. Use lapping plate and
R CoMat 05-116 lapping compound. For post repair inspection refer to
R Figure 4. Clean the part using CoMat 01-177 petroleum.

(9) Install the mating ring on deoiler gear. (Ref Fig 2)

R (a) Install a new P/N AS3209-135 packing (1) in to the internal groove
R of P/N 7T0302 mating ring (2). Ref TASK 70-23-13-911-010).

(b) Assemble the mating ring (2) on the pusher, IAE 1F10070 with the large contact face against the pusher slide.

(c) Install the pusher with the mating ring attached in to the deoiler gear (4).

R (d) Align the lugs on the smaller diameter of the mating ring (2) with the slots on the nut.

(e) Use the pusher, IAE 1F10070, to fully install the mating ring (2) in the deoiler gear (4).

(f) Remove the pusher, IAE 1F10070.

(10) Install the seal assembly (Ref Fig 1)

R NOTE: The seal assembly (3) consist of the P/N 4B7049 carbon seal
R housing and the new P/N 4T0277 carbon seal. The housing and the
R carbon seal are preassembled.

(a) Make sure that the carbon seal in the seal assembly is free to move.

NOTE: The carbon seal must have free axial movement during its full travel in the seal assembly.

R (b) Install a new P/N AS3209-143 packing (1) in to the groove of the
new seal assembly (3). (Ref TASK 70-23-13- 911-010).

(c) Align the holes on the seal assembly (3) with the holes on the deoiler casing (2). Use the pusher, IAE1F10072, to fully install the seal assembly (1).

(d) Install the three washers (4) and bolts (5) which attach the seal assembly (3) to the deoiler casing (2).

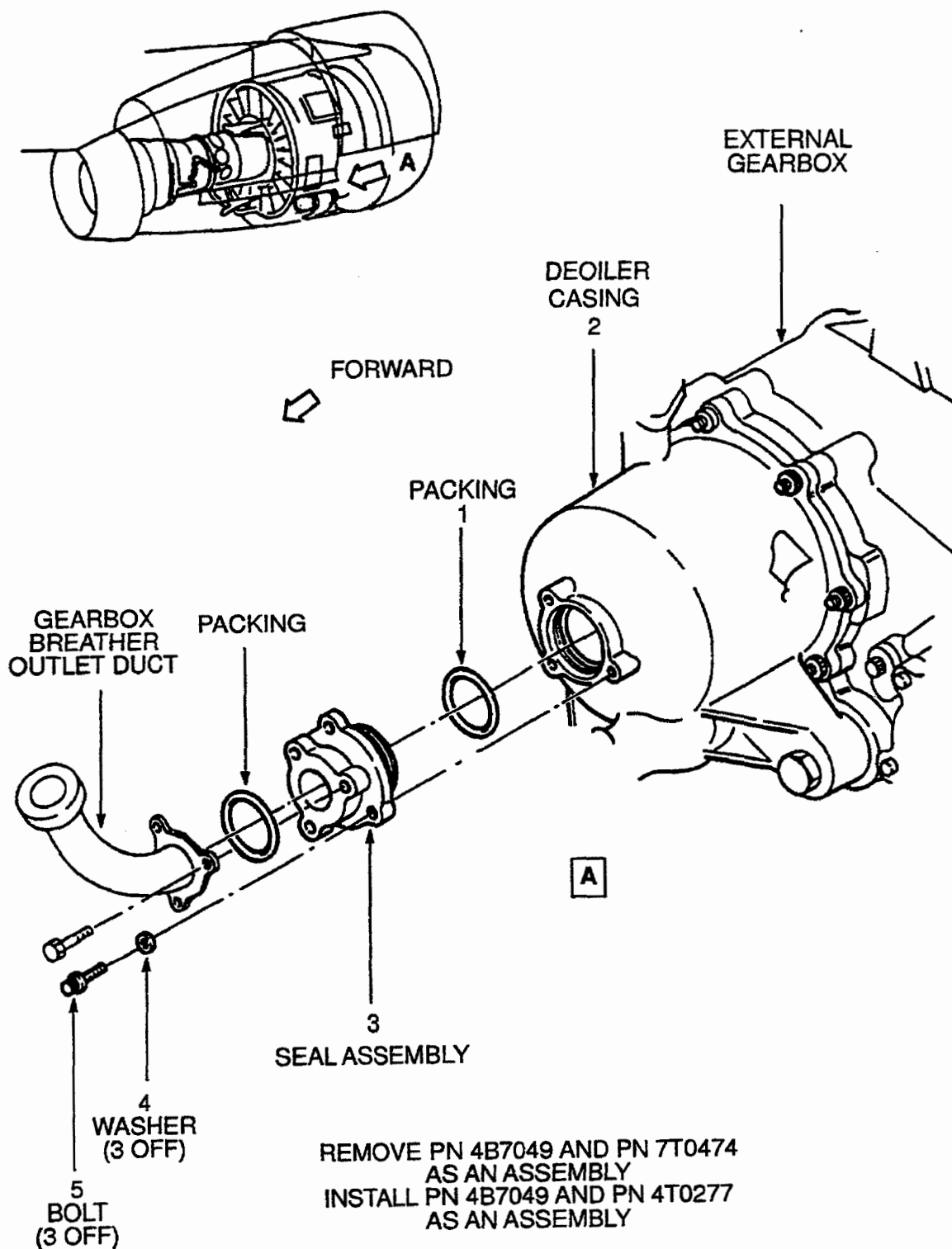
(e) Torque the bolts (5) to between 85 and 95 lbfin (0,96 and 1,07 mdaN). (Ref TASK 70-23-13- 911-010).



INFORMATION BULLETIN

- R (11) Install the gearbox breather outlet duct by the approved procedure in
R Reference (2), Chapter/Section 72-61-49, Removal/Installation. Use
packing AS3209-226 or AS43013-226.
- (12) Close the Fan Cowls by the approved procedure in Reference (2), Chap-
ter/Section 71-13-00, Maintenance Practices.
- (13) Remove the warning notices.
- R (14) Do an oil leak check (Ref TASK 71-00-00-700-012)
- R (15) Provide a data record sheet for the affected engines to IAE on a
R monthly basis during Controlled Service Use (Ref, Fig. 3)
- R (16) Report incorporation of Service Bulletin

INFORMATION BULLETIN



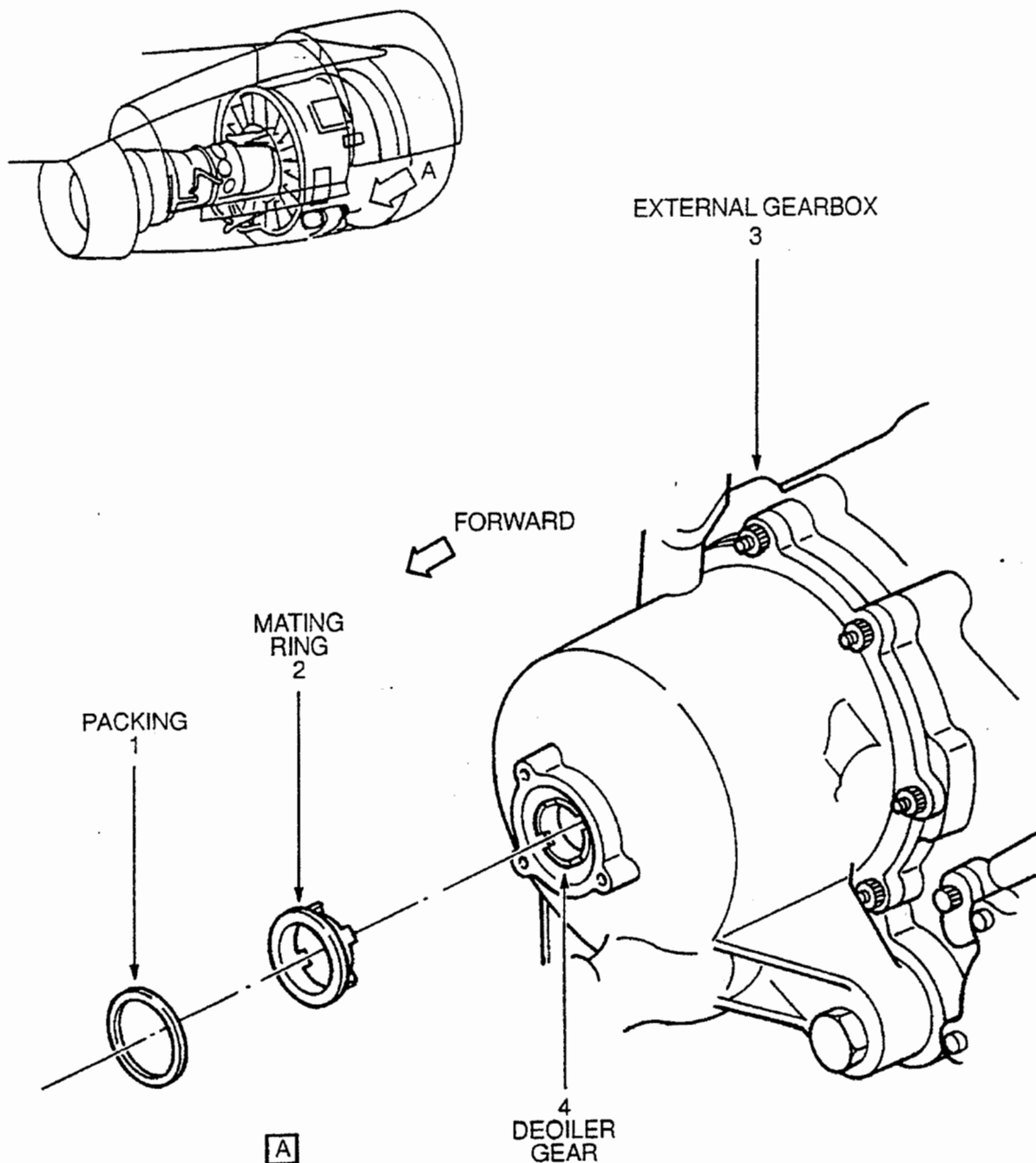
F720127-1A

Remove and install the seal assembly
Figure 1

V2500-ENG-72-0127

INFORMATION BULLETIN

Printed in Great Britain



F720127-2

Remove and install the mating ring
Figure 2

Feb.20/92
R Revision 1 Jul.24/92

V2500-ENG-72-0127
Page 7



V2500 Propulsion System — Engine General

INFORMATION BULLETIN

DATA RECORD SHEET
FOR SB V2500-ENG-72-0127 CONTROLLED SERVICE USE

Operator :

Eng. S/N A/C No.....

Eng. TThours

Eng. TCcycles

Carbon seal running (TT).....hours

Time since installation (TC).....cycles

Oil consumption :

Oil staining on fan cowl :	YES	NO
----------------------------	-----	----

Mating ring - replaced	YES	NO
------------------------	-----	----

Mating ring - lapped	YES	NO
----------------------	-----	----

Mating ring - not removed	YES	NO
---------------------------	-----	----

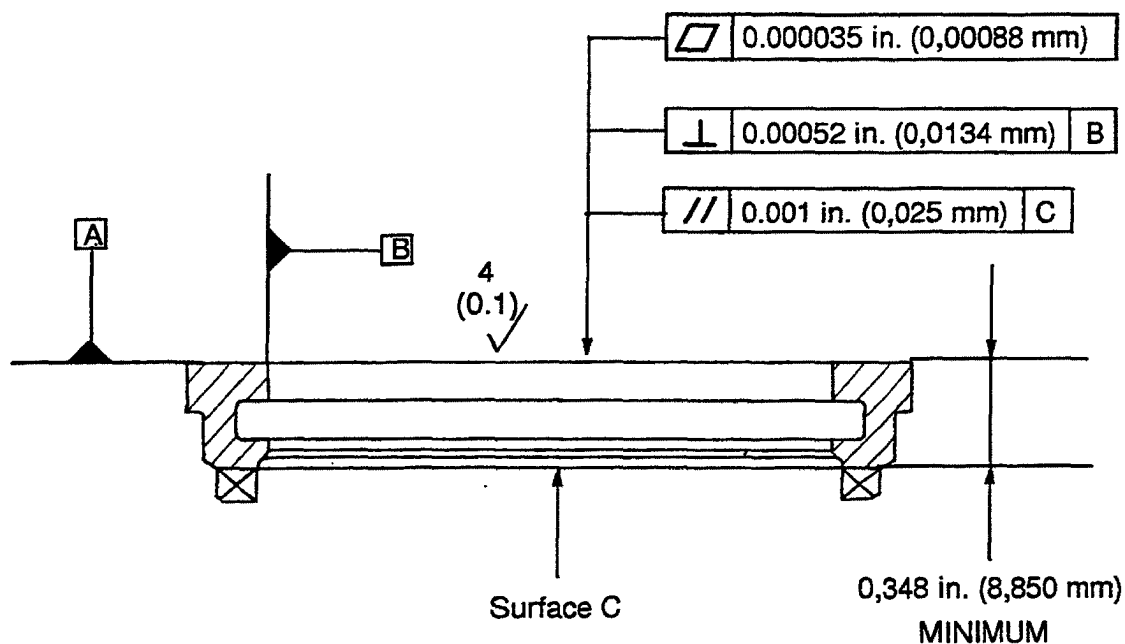
Date :

Inspection :

F720127-3

Data record sheet
Figure 3

INFORMATION BULLETIN



F720127-4

Mating ring post lap repair inspection data
Figure 4