



V2500 Propulsion System — Nacelle

# SERVICE BULLETIN

Date: March 26, 2002

Subject: Transmittal of Revision 1 to Service Bulletin Number V2500-NAC-71-0010

Service Bulletin Revision History:

<u>Event</u>	<u>Date</u>
Original Issue	December 1, 2000
Revision 1	March 26, 2002

Reasons for issuance of Revision:

(1) This revision is issued to revise suppliers contact details- refer to sheet 9.

Effect on Past Compliance:

None.

List of Effective Pages:

<u>Page No.</u>	<u>Rev No.</u>	<u>Date</u>
1	1	March 26, 2002
2 thru 8	orig	December 1, 2000
9	1	March 26, 2002

V2500-NAC-71-0010

Transmittal

Page 1



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V2500 Propulsion System — Nacelle

# SERVICE BULLETIN

NACELLE – POWERPLANT – IDG CABLES - 400VC-A CONNECTOR –  
PRESSURE SPRINGS – INSTALLATION OF

## MODEL APPLICATION

V2500-A1

## BULLETIN INDEX LOCATOR

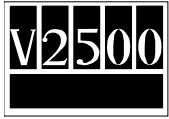
24-00-00

## COMPLIANCE CATEGORY CODE

4

## INTERNAL REFERENCE No

MM/SM 89VN038



# SERVICE BULLETIN

1. Planning Information

A. Effectivity

- (1) Airplane: Airbus A320
- (2) Engine: V2500-A1 Engine Build-up Unit Serial No's prior to 31.

B. Reason

(1) Condition

Arcing may occur between the socket tines of the 400VC-A Connector and the pin contacts of the Pylon interface.

(2) Background

Several incidents of arcing have occurred in service. The socket tines of the 400VC-A Connector may separate due to the removal/installation of the Pylon interface pin contacts with the connector. The gaps between the tines caused by the separation may cause arcing between the tines and also between the tines and the pin contacts.

(3) Objective

To introduce Pressure Springs to the 400VC-A Connector to prevent the separation of the tines in the Connector which causes the arcing and so maintain the engine reliability and safety.

(4) Substantiation

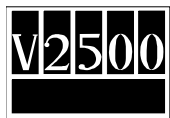
Not Applicable.

(5) Effect of Bulletin on:

- |     |                      |                |
|-----|----------------------|----------------|
| (a) | Removal/Installation | - Not affected |
| (b) | Disassembly/Assembly | - Not affected |
| (c) | Cleaning             | - Not affected |
| (d) | Inspection/Check     | - Not affected |
| (e) | Repair               | - Not affected |
| (f) | Testing              | - Not affected |

(6) Supplemental Information

None.



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V2500 Propulsion System — Nacelle

# SERVICE BULLETIN

C. Description

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

- (a) The 400VC-A Connector is disconnected.
- (b) A 259-0618-000 Pressure Spring is installed on each of the four socket contacts and the 400VC-A Connector is reconnected.

D. Approval

The technical content of this Service Bulletin is covered by an Airbus Industrie Modification which is under DGAC (Direction Generale de L'Aviation Civile - France) approval.

E. Compliance

Category 4

Accomplish at the first visit of the Nacelle or Nacelle Component to a maintenance base capable of compliance with the Accomplishment Instructions regardless of the planned maintenance action for the Nacelle or Nacelle Component.

F. Manpower

Estimated man-hours to incorporate the full intent of this Service Bulletin:

VENUE

ESTIMATED MANHOURS

(1) In Service

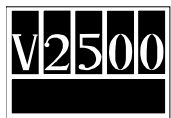
1.0 M/Hrs

Total 1.0 M/Hrs

NOTE: Manhour estimate is provided for planning purposes only. No labor reimbursement is provided under the terms of this service bulletin offering.

G. Material Cost and Availability

Modification Kit not required. Parts supplied as single line items. Refer to Section 3, "Material Information".



# SERVICE BULLETIN

## H. Tooling - Cost and Availability

New tools required:

Tool No.	Qty	Description	Function	Availability
274-8021-300	1	Spring Installation Tool	To install Pressure Springs on socket contacts	Obtain tools from: ITT Cannon, 4 Cannon Court, Whitby, Ontario, L1N 5V8 Canada
274-8021-400	1	Tine Deflection Tool	To make clearance between the socket tines and the sleeve	
274-8021-500	1	Spring Expansion Tool	To prepare the Pressure Spring for installation	

## I. Weight and Balance

- (1) Weight change..... None
- (2) Moment arm..... No effect
- (3) Datum..... Engine Front Mount Centreline  
(Powerplant Station PPS 100.00)

## J. Electrical Load Data

Not affected.

## K. References

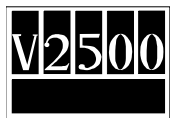
### Chapter/Section

A320/A321 V2500-A1/A5 Engine Maintenance Manual  
(M-V2500-11A) 71-13-00  
71-00-00

## L. Other Publications Affected

### Chapter/Section

A320/V2500-A1 Powerplant Illustrated Parts Catalog  
(PIP-V2500-11A) 24-21-43  
A320/V2500-A1 Engine Illustrated Parts Catalog (S-  
V2500-11A) 24-21-43



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# **SERVICE BULLETIN**

## 2. Accomplishment Instructions

### A. Pre-requisite Instructions

- (1) Open the right Fan Cowl Door as specified in the Engine Maintenance Manual, Task 71-13-00-010-010.
- (2) Find the 400VC-A Electrical Connector on the IDG Cable Assembly at the right side of the Engine Fancase. Disconnect the 400VC-A Electrical Connector. Refer to Figure 1.

### B. Rework/Modification Instructions

- (1) Carefully align the 274-8021-400 Tine Deflection Tool with one of the socket contacts, as shown in Figure 1. Push the Tool down into the socket contact to engage between the socket tines and the sleeve until it touches the bottom.
- (2) Remove the Tool and examine the clearance between the socket tines and the sleeve. If the clearance is less than .018" (0.46mm) do step (1) again.
- (3) Manually put the 259-0618-000 Pressure Spring on the 274-8021-500 Spring Expansion Tool.
- (4) Put the small diameter end of the Spring Expansion Tool into the socket contact until it touches the bottom.
- (5) Put the 274-8021-300 Spring Installation Tool on the Spring Expansion Tool. Push the Spring Installation Tool down until it touches the Pressure Spring. Then push the tool down until it touches the top of the inner Spring Expansion Tool. You will hear a click as the Pressure Spring is installed in position.
- (6) Do steps (1) thru (5) again for remaining three socket contacts.
- (7) Re-identify the 740-5869-503 Cable Assembly to 740-5896-505.

### C. Post-requisite Instructions

- (1) Connect the 400VC-A Connector to the Pylon interface. Make sure the Connector is fully engaged (shown by the indicator on the Connector Body). Refer to Figure 1.
- (2) Close the right Fan Cowl Door as specified in the Engine Maintenance Manual, Task 71-13-00-410-010.
- (3) Do an operational test of the IDG electrical system as specified in the Engine Maintenance Manual, Task 71-00-00-700-012.

### D. Recording Instructions

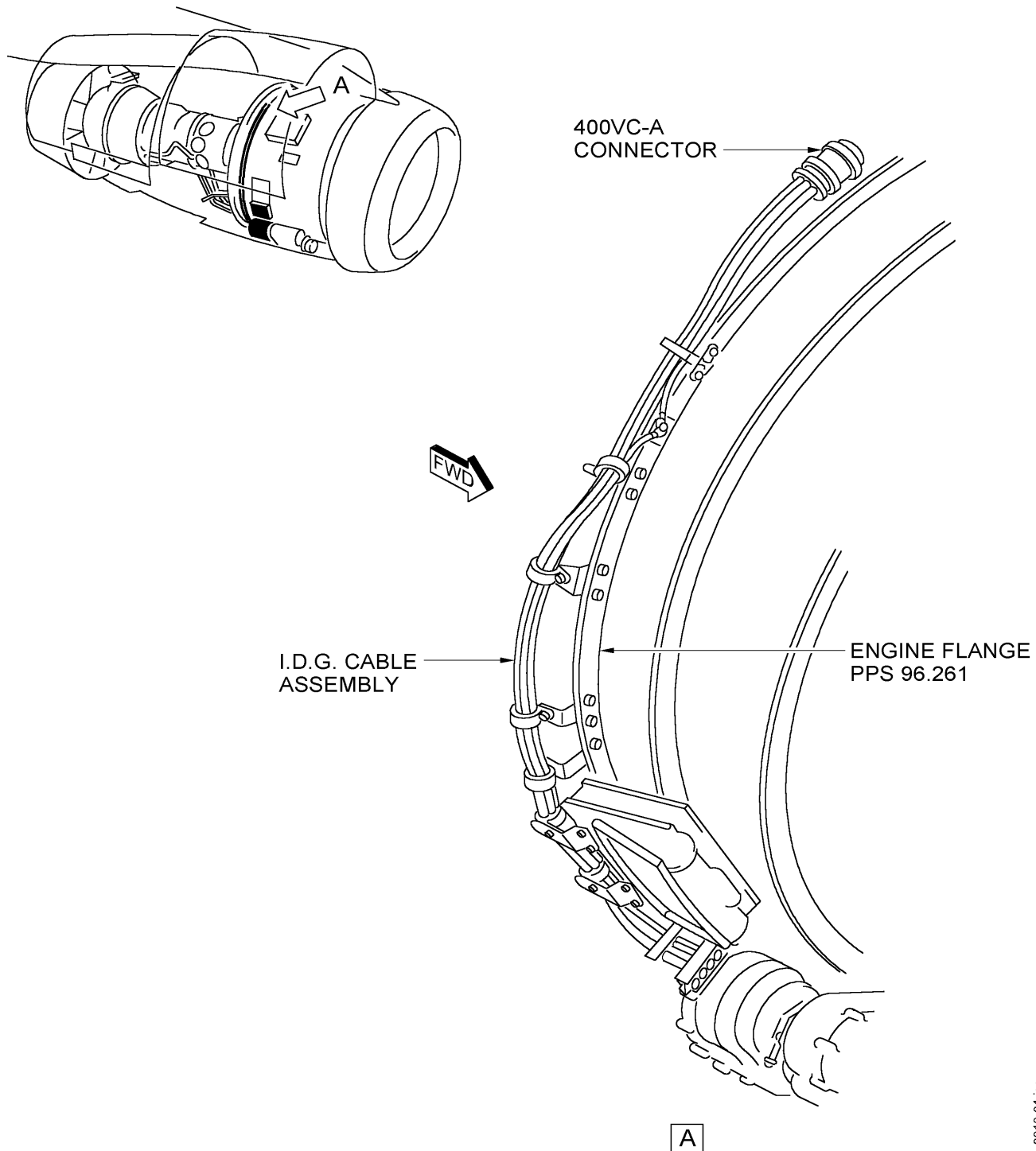
- (1) A record of accomplishment is necessary.



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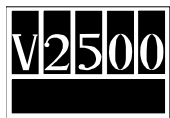
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# SERVICE BULLETIN



Location of the 400VC-A Connector  
Figure 1, sheet 1

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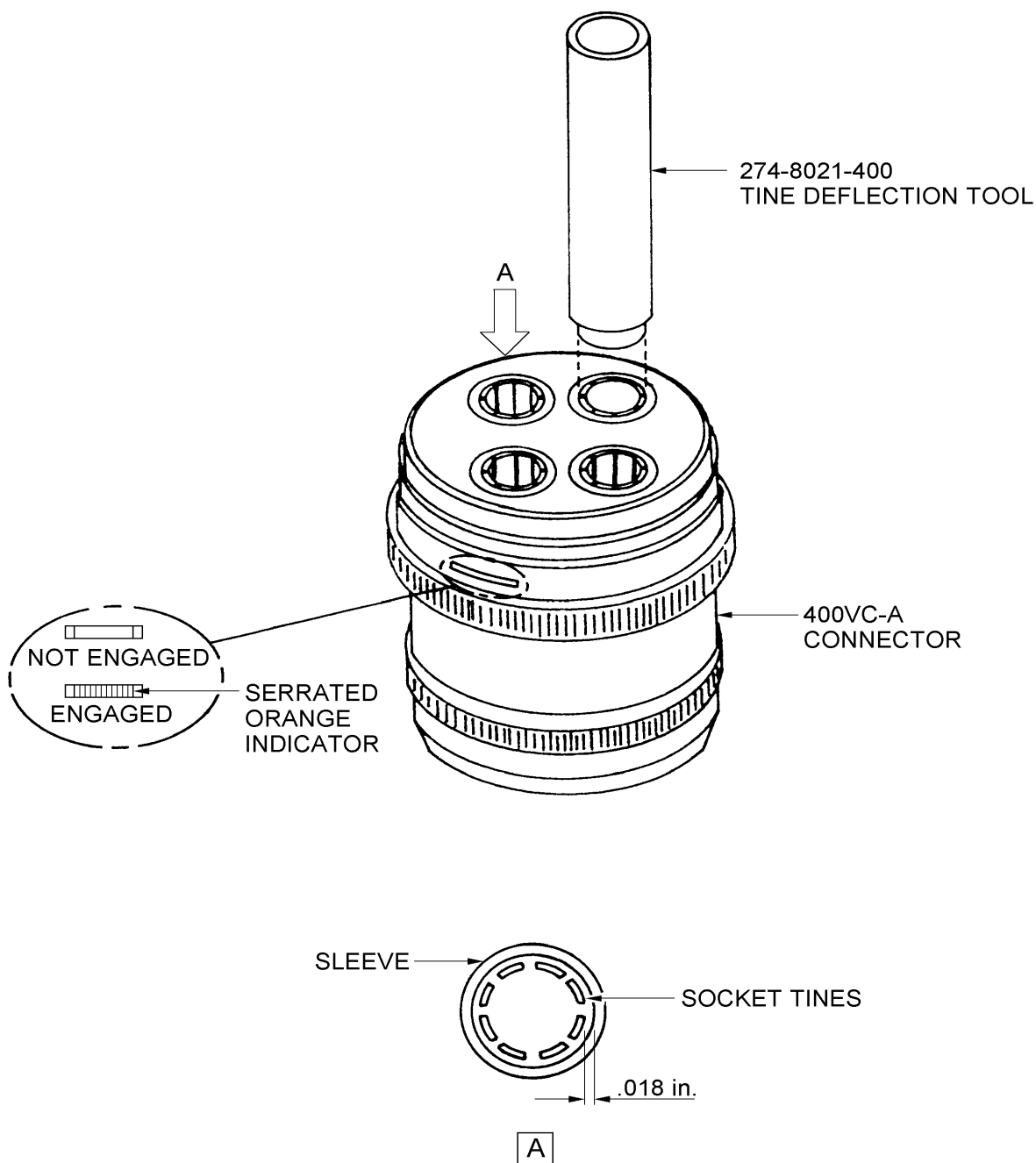


Figure 1, sheet 2  
Preparation of the Sockets for installation of the Pressure Springs





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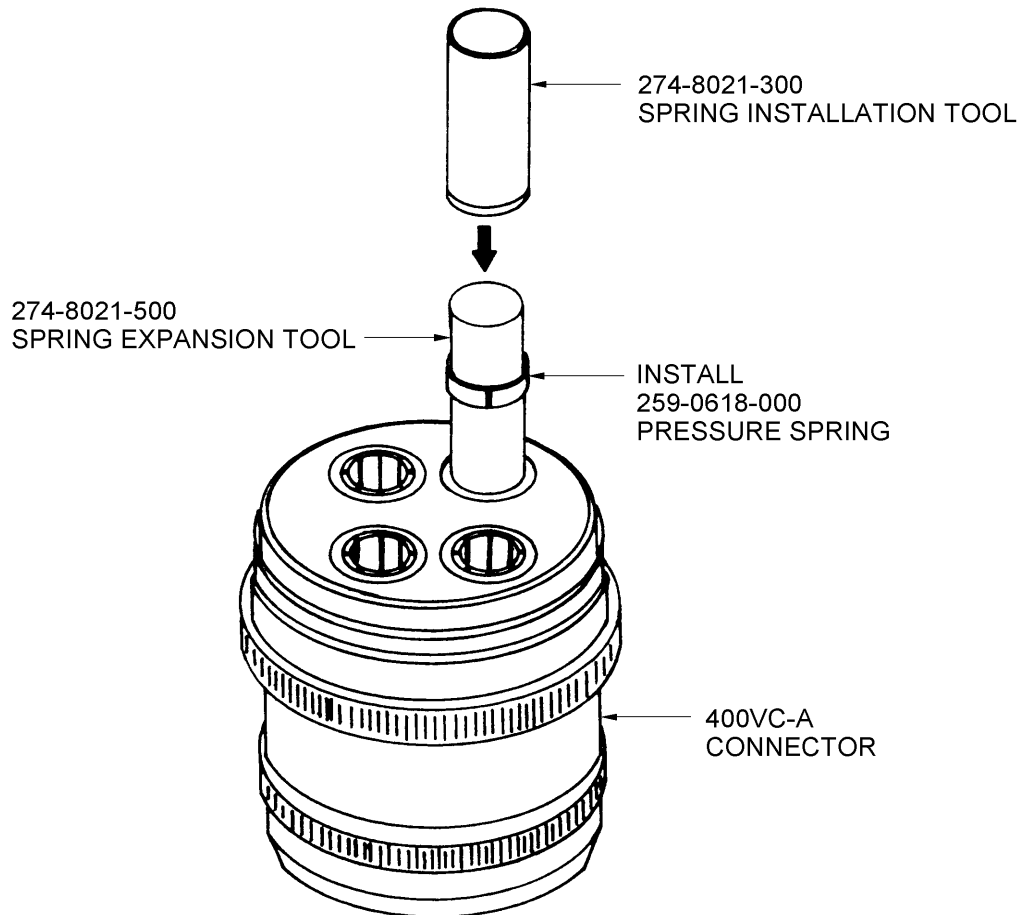
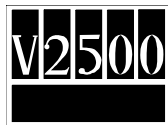


Figure 1, sheet 3  
Installation of the Pressure Springs

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# SERVICE BULLETIN

## 3. Material Information

Applicability: For each V2500-A1 Nacelle to incorporate this Bulletin.

### A. Kits associated with this Bulletin

None.

### B. Parts affected by this Bulletin

NEW PART No (ATA No)	QTY	EST'D UNIT PRICE (\$)	KEYWORD	OLD PART No (IPC No)	INSTR/ DISPOS
740-5869-505 (24-21-43)	1		.Cable Assembly	740-5869-503 (01-010)	(S1)(1D)

### C. Instructions/Dispositions Code Statements

(S1) New part may be used in lieu of old part but not vice versa.

(1D) Old part may be reworked to new part in accordance with this Service Bulletin

NOTE: The estimated 2000 unit price shown is provided for planning purposes only and does not constitute a firm quotation. Consult the BF Goodrich Aerospace Price Catalog or contact BF Goodrich Aerospace Spares Parts Sales Department for information concerning firm prices.

### D. Materials required to incorporate this Bulletin.

<u>PART NO</u>	<u>KEYWORD</u>	<u>QTY</u>	<u>SOURCE</u>	<u>VENDOR CODE</u>
259-0618-000	Spring, pressure	4	ITT Cannon, Viabes Industrial Estate Basingstoke, Hampshire, RG22 4BA England, TEL: +44 1256 311411 FAX: +44 1256 812139	

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