



SERVICE BULLETIN

ENGINE - POWER PLANT - FANCASE GENERAL SERVICES HARNESS - CONNECTOR BACKSHELLS - REPLACEMENT OF - CATEGORY CODE 4 - MOD.ENG-71-0038

1. Planning Information

A. Effectivity

- (1) Airplane: Airbus A320
- (2) Engine: V2500-A1 Engines prior to Serial Number V108
exclcluding V0072, V0073, V0075, and V0077
thru V0107.

B. Reason

(1) Condition

Installation of backshells revealed that some were liable to cracking.

(2) Background

Investigations revealed that the problem was variations in wall thickness from backshell to backshell. Consequently, a replacement backshell has been designed.

(3) Objective

To maintain engine reliability.

(4) Substantiation

The new backshell has been tested and approved and is now considered to be satisfactory.

(5) Impact of Bulletin on:

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

(6) Supplemental Information

Not affected.

V2500-ENG-71-0038



SERVICE BULLETIN

C. Description

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

The 4000xu-A and 4000xu-B connectors at integrated drive generator (IDG) are disassembled. The connector backshells are replaced and the connector assemblies reassembled. (Refer to Figures 1 thru 4.)

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 4

Accomplish at the first visit of an Engine or Module to a maintenance base capable of compliance with the accomplishment instructions regardless of the planned maintenance action or the reason for Engine removal.

F. Manpower

Estimated manhours to incorporate the full intent of this Bulletin:

VENUE	ESTIMATED MANHOURS
(1) In Service	
(a) To gain access	0.2 M/HRS.
(b) To embody	1.0 M/HRS.
(c) To return engine to flyable status	0.2 M/HRS.
TOTAL	1.4 M/HRS.

G. Material Cost and Availability

The parts to accomplish this Service Bulletin are available from the supplier as Kit V2571038-551 at no cost to the operator.

Operators with units listed in Paragraph 1.A should submit a no charge purchase order for the applicable quantity of Kits. The purchase order must specify this service bulletin number and only the parts listed herein. Delivery schedules will be furnished to operators upon receipt of their written request.

V2500-ENG-71-0038



SERVICE BULLETIN

Direct purchase order to:

Rohr Industries, Inc.
660 Bay Blvd.
Chula Vista, CA 92012-0878 USA
Attn: Customer Support Manager, Bldg. 850A
(Service Bulletin No. V2500-ENG-71-0038)

H. Tooling Cost and Availability

None required.

I. Weight and Balance

- (1) Weight Change None
- (2) Moment Arm No effect
- (3) Datum Engine Front Mount Centerline
..... (Powerplant Station
..... PPS 100.00)

J. Electrical Load Data

Not affected.

K. References

- (1) Internal Reference No.

89VN077/A
- (2) Other References

V2500 Aircraft Maintenance Manual 71-13-00

L. Other Publications Affected

V2500 Engine Illustrated Parts Catalog 71-51-43

V2500-ENG-71-0038



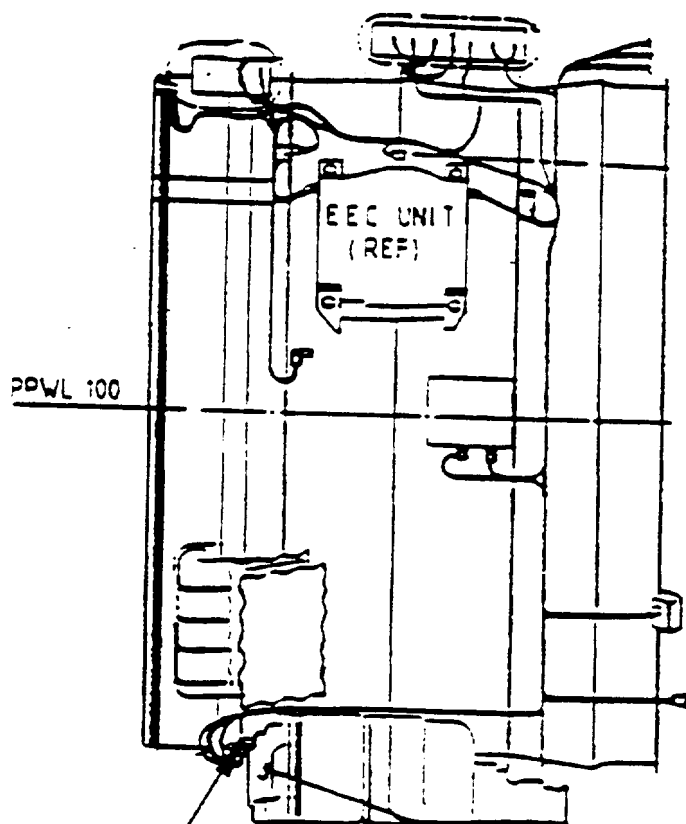
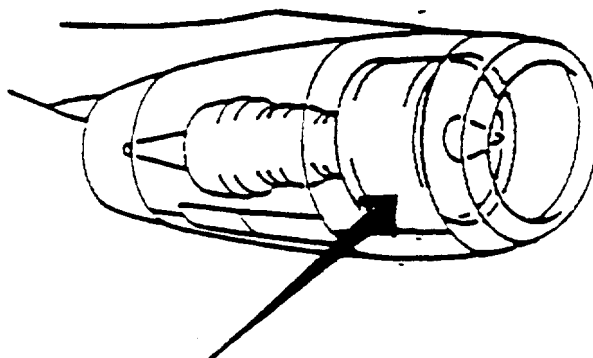
2. Accomplishment Instructions

A. Prerequisite Instructions

- (1) Open the fan cowl doors as specified in the V2500 Aircraft Maintenance Manual, Task 71-13-00-010-010.
- (2) Find the 4000xu-A and 4000xu-B connectors on the right side of the engine fan case at the integrated drive generator. (Refer to Figure 1.) Disconnect the connectors.

B. Rework or Modification Instructions

- (1) Cut off the lockwire from the 4000xu-A connector and disassemble the connector assembly. Remove the Scotchboy tape that holds the cable screens to the cable loom. (Refer to Figure 2.)
- (2) Replace the backshell as follows:
 - (a) Remove all the cables from the 4000xu-A connector with an M81969-14-02 insertion/removal tool. (Refer to Figure 3.)
 - (b) Replace the 387AJ008M1808A backshell with a 388AJ101M1808A backshell on the cable loom.
 - (c) Install the cables back into the connector with an M81969-14-02 insertion/removal tool. (Refer to Figure 3.)
 - (d) Connect the backshell to the connector. (Refer to Figure 2.)
 - (e) Engage the ground ring in the backshell and safety the cable screens with 69 Scotchboy tape as shown.
 - (f) Connect the backclamp to the backshell. (Refer to Figure 2.)
 - (g) Safety the backclamp to the backshell, to the connector, with DTD189A lockwire.
- (4) Replace the backshell on the 4000xu-B connector with instructions in paragraphs 2.B.(1) and 2.B.(2). (Refer to Figure 4.)

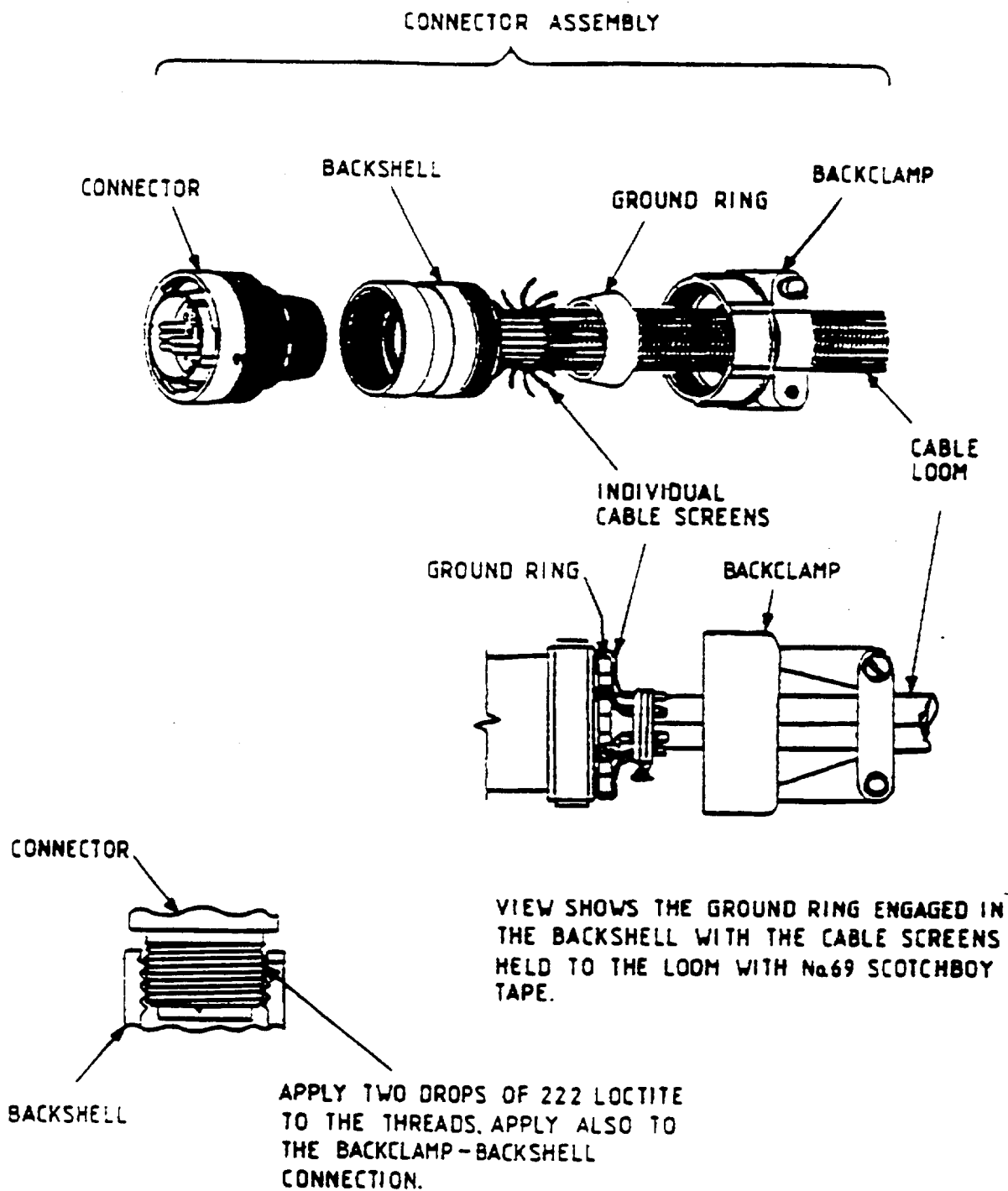


DISCONNECT AND CONNECT
ELECTRICAL CONNECTORS
4000XU-A & 4000XU-B

INTEGRATED DRIVE
GENERATOR (REF)

Location of the IDG Connectors on the Right Side of the Engine Fancase
Fig.1

V2500-ENG-71-0038



Disassembly/Assembly of the Connector Assembly
Fig.2

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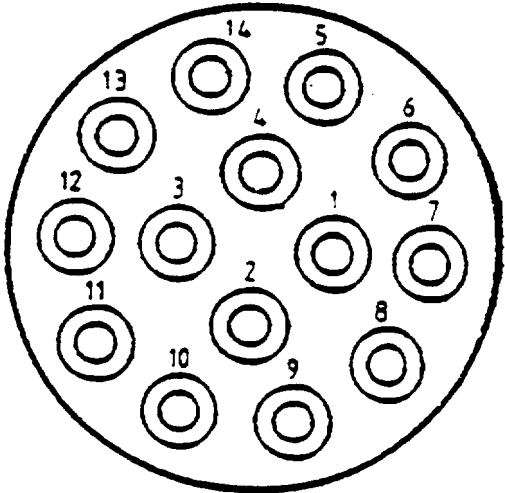


International Aero Engines

SERVICE BULLETIN

INSERT CONFIGURATION 18-14
No OF CONTACTS 14
SIZE OF CONTACTS 16 AWG

PIN	CABLE
1	8P049
2	8P001
3	8P002
5	8P070
6	8P050
7	8P051
8	8P052
9	8P029
10	8P030
12	8P053
13	8P071
14	8P054
4	UNUSED
11	UNUSED



VIEW ON FRONT FACE
OF THE PIN INSERTS

ded0000140

Insert Configuration for the 4000xu-A Connector
Fig.3

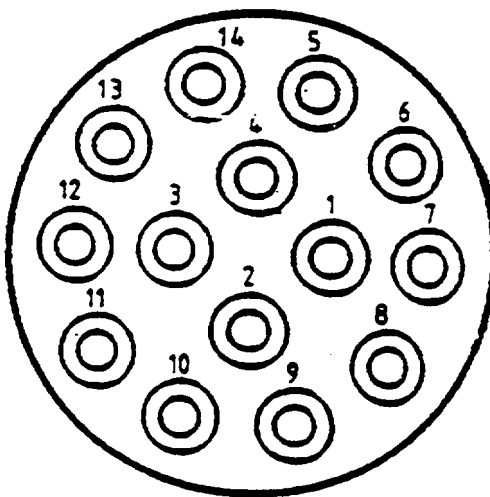
V2500-ENG-71-0038



SERVICE BULLETIN

INSERT CONFIGURATION 18-14
No OF CONTACTS 14
SIZE OF CONTACTS 16 AWG

PIN	CABLE
1	8P005
2	8P007
3	8P042
4	8P041
5	8P033
6	8P034
7	8P008
8	8P009
9	8P010
10	8P025
12	8P026
13	8P027
14	8P028
11	UNUSED



VIEW ON FRONT FACE
OF THE PIN INSERTS

Insert Configuration for the 4000xu-B Connector
Fig.4

V2500-ENG-71-0038



C. Post-requisite Instructions

- (1) Close the right fan cowl door as specified in the V2500 Aircraft Maintenance Manual, Task 71-13-00-410-010.

D. Recording Instructions

- (1) A record of accomplishment is necessary.



SERVICE BULLETIN

3. Material Information

NEW PN (ATA NO.)	QTY	EST'D UNIT PRICE (\$)	KEYWORD	OLD PN (IPC NO.)	INSTR/ DISPOS
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Applicability: For each V2500 Engine to incorporate this Bulletin.

A. Kits Associated with this Service Bulletin:

V2571038-551	1		Kit		(A)
consisting of:					
388AJ101M1808A	2		Backshell		

B. Parts Affected by this Service Bulletin:

740-5966-517	1		Harness, GS	740-5966-515	(2D)
(71-51-43)				(01-005)	
388AJ101M1808A	2		Backshell	387AJ008M1808A	(B)(1D)
(71-51-43)				(02-365)	
				(02-395)	

C. Instruction/Disposition Code Statements:

(A) Kit is available.

(B) New part supplied as detail of the Kit.

(1D) Discard the old part.

(2D) Old part can be reworked and reidentified to the new part number.

D. These materials are to be procured by the Operator or obtained from his stock.

Part Number	Keyword	Qty	Source	Vendor Code
69	Scotch Tape	AN	3M United Kingdom PLC P.O. Box 1 3M House Bracknell Berks RG12 1JU Tel (0344) 426726	---

V2500-ENG-71-0038



International Aero Engines

SERVICE BULLETIN

222	Loctite	AN	Commercially Available	---
DTD189A	Lockwire	AN	Commercially Available	---

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V2500-ENG-71-0038

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Page 11

