



400 MAIN STREET, MAIL STOP 121-10
EAST HARTFORD, CT 06108, USA.
TELEPHONE:- 860 565 5515
FAX:- 860 565 0600

DATE: Jul.25/06

P.O. BOX 31, DERBY
TELEGRAMS - 'ROYCAR' DERBY
TELEX - 37645
TELEPHONE:- 44 (0) 1332 242424
FAX:- 44 (0) 1332 249936

V2500-A1/A5/D5 SERIES PROPULSION SYSTEMS SERVICE BULLETIN

Printed in Great Britain

This document transmits Revision 2 to Service Bulletin EV2500-70-0857 and Revision 2 to the Supplement

Document History

Service Bulletin Revision Status
Initial Issue May 28/04
Revision 1 May 26/05

Supplement Revision Status
Initial Issue May 28/04
Revision 1 May 26/05

Bulletin Revision 2

Remove
All pages of the
Summary

Incorporate
Page 1 and 2 of the
Summary

Pages 1 to 6 of the
Service Bulletin

Pages 1 to 7 of the
Service Bulletin

Reason for change
To add new part number
ST1946-280 for A1 engines
prior to Service Bulletin
V2500-ENG-72-0132 standard
and to make some minor
changes.
To add new part number
ST1946-280 for A1 engines
prior to Service Bulletin
V2500-ENG-72-0132 standard
and to make some minor
changes.

V2500-ENG-70-0857

Transmittal - Page 1 of 3

CHECK THAT ALL PREVIOUS TRANSMITTALS HAVE BEEN INCORPORATED

If any have not been received please advise Customer Data Services, Rolls-Royce plc, Derby, England

© Rolls-Royce plc (date as above) Printed in Great Britain

All pages of
Appendix 1

Pages 1 to 6 of
Appendix 1

To add new part number
ST1946-280 for A1 engines
prior to Service Bulletin
V2500-ENG-72-0132 standard
and to make some minor
changes.

Supplement Revision 2

Remove
All pages

Incorporate
Page 1

Reason for change
To add new part number
ST1946-280 for A1 engines
prior to Service Bulletin
V2500-ENG-72-0132 standard
and to make some minor
changes.

Printed in Great Britain

LIST OF EFFECTIVE PAGES

The effective pages to this Service Bulletin following incorporation of Revision 2 to the Bulletin and Revision 2 to the Supplement are as follows:

<u>Page</u>	<u>Revision Number</u>	<u>Revision Date</u>
Summary		
R 1	2	Jul.25/06
R 2	2	Jul.25/06
Bulletin		
R 1	2	Jul.25/06
R 2	2	Jul.25/06
R 3	2	Jul.25/06
R 4	2	Jul.25/06
R 5	2	Jul.25/06
R 6	2	Jul.25/06
R 7	2	Jul.25/06
Appendix 1		
R 1	2	Jul.25/06
R 2	2	Jul.25/06
R 3	2	Jul.25/06
R 4	2	Jul.25/06
R 5	2	Jul.25/06
R 6	2	Jul.25/06
Supplement		
R 1	2	Jul.25/06

INFORMATION – ENGINE – PROVIDE IMPROVED PREFORMED PACKINGS

SUMMARY

1. PLANNING

A. EFFECTIVITY

Engine V2500-A1 Serial Numbers – Any engine as applicable.

Engine V2500-A5 Serial Numbers – Any engine as applicable.

Engine V2500-D5 Serial Numbers – Any engine as applicable.

B. CONCURRENT REQUIREMENTS

There are no concurrent requirements.

C. REASON/PROBLEM

Problem:

R The Pratt and Whitney supplier of certain packings has discontinued production. Therefore a new supplier is provided.

Background:

To provide a more readily available source of supply.

D. DESCRIPTION

New improved packings are provided to replace certain discontinued packings.

E. COMPLIANCE

Category 7

Accomplish when supply of superseded parts has been depleted.

F. MANPOWER

(1) In Service

Not applicable

(2) At Overhaul

Not applicable

Total Necessary Man-hours – Not applicable

2. MATERIAL INFORMATION**Part Prices**

- R A. The estimated price of new material to do this Service Bulletin using new replacement parts is \$275.10.
- B. There is no kit provided to do this Service Bulletin.

INFORMATION – ENGINE – PROVIDE IMPROVED PREFORMED PACKINGS1. Planning InformationA. Effectivity Data

(1) Airbus A319

Engine Models Applicable

V2522-A5, V2524-A5, V2527M-A5

Engine Serial Nos. – Any engine as applicable

(2) Airbus A320

Engine Models Applicable

V2500-A1

Engine Serial Nos. V0001 thru V0361

V2527-A5, V2527E-A5

Engine Serial Nos. – Any engine as applicable

(3) Airbus A321

Engine Models Applicable

V2530-A5, V2533-A5

Engine Serial Nos. – Any engine as applicable

(4) Boeing MD-90

Engine Models Applicable

V2525-D5, V2528-D5

Engine Serial Nos. V20001 thru V20285

B. Concurrent Requirements

There are no concurrent requirements.

C. Reason

- R
- (1) Problem: The Pratt and Whitney supplier of certain packings has discontinued production. Therefore a new supplier is provided.
 - (2) Background: To provide a more readily available source of supply.
 - (3) Substantiation: The new parts are presently being used successfully in all other Pratt and Whitney applications.
 - (4) Effects of Bulletin on:
 - Removal/Installation: Not affected.
 - Disassembly/Assembly: Not affected.
 - Cleaning: Not affected.
 - Inspection/Check: Not affected.
 - Repair: Not affected.
 - Testing: Not affected.
 - (5) Supplemental Information
 - None.

D. Description

New improved packings are provided to replace certain discontinued packings.

E. Compliance

Category 7

Accomplish when supply of superseded parts has been depleted.

F. Approval Data

The part number changes shown in the Material Information section have been shown to comply with applicable Federal Aviation Regulations and are FAA-APPROVED for the engine model(s) listed.

The compliance statement and the procedures described in this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the Engine Model listed.

R G. Material – Price and Availability

R (1) The estimated price of each new part is listed in the supplement to this
R bulletin.

R (2) There is no kit provided to do this Service Bulletin.

R (3) Part availability information is provided in material data Instructions –
R Disposition.

R H. Tooling – Price and Availability

R Special tools are not required to accomplish this Service Bulletin.

I. References

R (1) V2500 Service Bulletin:

R V2500-ENG-72-0132 – ENGINE – LP COMPRESSOR – REMOVAL OF STAGE 6 BUFFER AIR
R SYSTEM

R (2) V2500 Engine Illustrated Parts Catalogs (S-V2500-1IA, S-V2500-2IA,
R S-V2500-2IB, S-V2500-3IA, S-V2500-3IB, S-V2500-5IA, S-V2500-5IB,
R S-V2500-6IA, S-V2500-6IB, S-V2500-7IA and S-V2500-7IB), Chapter/Section
R follows:

R 72-32-20 Figure 1 Item 20

R 72-32-25 Figure 2 Item 350

R 72-32-53 Figure 1 Item 400

R 72-42-30 Figure 1 Item 10

R 72-50-53 Figure 20 Item 300

R 72-50-53 Figure 20 Item 570

R 72-58-02 Figure 01 Item 040

R 72-58-02 Figure 1 Item 80

R 73-11-41 Figure 1 Item 10

R 73-11-41 Figure 2 Item 1

R 73-11-41 Figure 3 Item 1

R 79-21-49 Figure 16 Item 117

R (3) Internal Reference No. – 03VB017, 03VB017A, 03VB017B, 03VB17C, 03VB017D.

R (4) ATA Locator - 72-32-00, 72-42-00, 72-50-00, 72-58-00, 73-11-00, 79-21-00.

J. Other Publications Affected

R (1) V2500 Engine Illustrated Parts Catalogs (S-V2500-1IA, S-V2500-2IA,
R S-V2500-2IB, S-V2500-3IA, S-V2500-3IB, S-V2500-5IA, S-V2500-5IB,
R S-V2500-6IA, S-V2500-6IB, S-V2500-7IA and S-V2500-7IB), to add the new
R parts, Chapter/Section follows:

R 72-32-20 Figure 1 Item 20
R 72-32-25 Figure 2 Item 350
R 72-32-53 Figure 1 Item 400
R 72-42-30 Figure 1 Item 10
R 72-50-53 Figure 20 Item 300
R 72-50-53 Figure 20 Item 570
R 72-58-02 Figure 01 Item 040
R 72-58-02 Figure 1 Item 80
R 73-11-41 Figure 1 Item 10
R 73-11-41 Figure 2 Item 1
R 73-11-41 Figure 3 Item 1
R 79-21-49 Figure 16 Item 117

K. Interchangeability of Parts

Old and new parts are directly interchangeable.

L. Information in the Appendix

Alternate Accomplishment Instructions (No)

Progression Charts (Yes)

Added Data (No)

Revision to Table of Limits (No)

Inspection Procedures (No)

M. General Information

The Material Information section of this Service Bulletin provides the latest information concerning the availability of the affected parts.

Printed in Great Britain

2. Material Information

A. Industry Support Program

Not Applicable.

B. The material data that follows is for each engine.

For V2500-A1, V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5, V2525-D5, V2528-D5 Engines:

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	OLD PART NO.	INSTR DISP
72-32-20 01-100	ST1946-276	1	Packing, Preformed	AS3209-276	(2)(B)(I)
72-32-25 02-350	ST1946-265	1	Packing, Preformed	AS3209-265	(2)(B)(I)
72-32-53 01-400	ST1946-279	1	Packing, Preformed	AS3209-279	(2)(B)(I)
72-42-30 01-010	ST1946-027	1	Packing, Preformed	AS3209-027	(2)(B)(I)
72-50-53 20-300	ST1946-014	1	Packing, Preformed	AS3209-014	(2)(B)(I)
20-570	ST1946-015	1	Packing, Preformed	AS3209-015	(2)(B)(I)
72-58-02 01-040	ST1946-107	1	Packing, Preformed	AS3209-107	(2)(B)(I)
01-080	ST1946-110	1	Packing, Preformed	AS3209-110	(2)(B)(I)
73-11-41 01-010	ST1946-010	18	Packing, Preformed	AS3209-010	(2)(B)(I)
02-001	ST1946-010	8	Packing, Preformed	AS3209-010	(2)(B)(I)
03-001	ST1946-010	24	Packing, Preformed	AS3209-010	(2)(B)(I)
79-21-49 16-117	ST1946-012	1	Packing, Preformed	AS3209-012	(2)(B)(I)

R For V2500-A1 Engines not incorporating Service Bulletin
R V2500-ENG-72-0132:

R	FIG	NEW	QTY	PART TITLE	OLD	INSTR
R	ITEM	PART			PART	DISP
R	NO.	NO.			NO.	
R	72-32-53					
R	01-400	ST1946-280	1	Packing, Preformed	AS3209-280	(2)(B1)(I)

C. Instructions/Disposition Code Statements:

Parts Modification Conditions

(2) The new part is a replacement part only, and cannot be obtained by modification of the old part.

Spare Parts Availability

R (B) The new part will be available approximately February 2004
R (B1) The new part will be available approximately August 2006

Cleaning, Inspection and Repair Information

(I) The cleaning, inspection and repair requirements are the same for the old and new part. The applicable engine manuals will be revised.

3. Accomplishment Instructions

A. None

(1) Recording Instructions

(a) A record of accomplishment is not required.

APPENDIX 1Parts Progression To Show the Changed Part in Relation to Other Parts

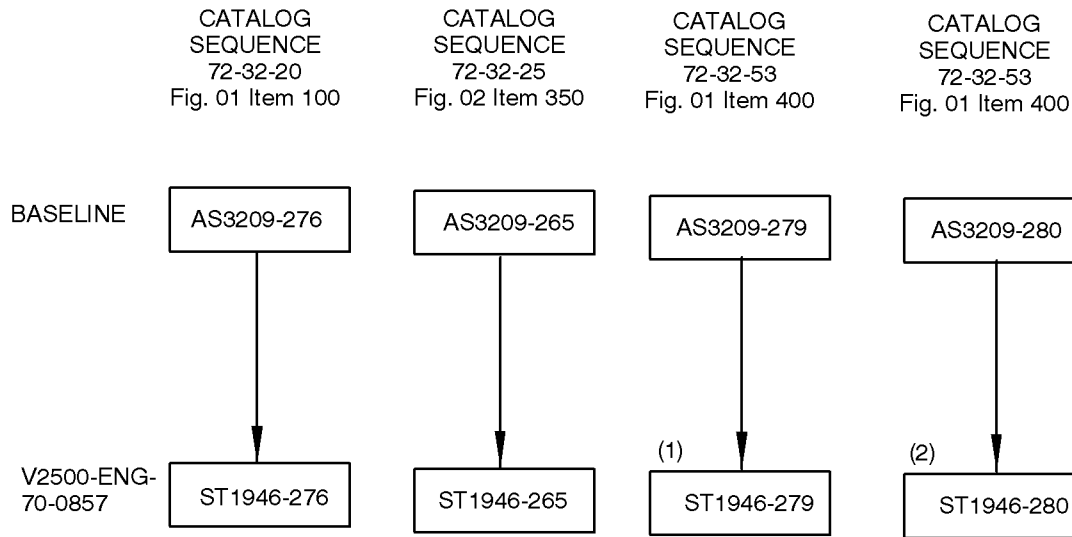
Printed in Great Britain

May 28/04
R Jul.25/06

V2500-ENG-70-0857
Appendix 1 - Page 1 of 6

© Rolls-Royce plc

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

MODIFICATIONS
PART NUMBER CHANGE


Printed in Great Britain

R

(1) For all A5/D5 Engines and for A1 engines incorporating SB 72-0132.

(2) For A1 Engines only not incorporating SB 72-0132.

pw0b513641a

 R FAMILY TREE - PREFORMED PACKINGS CATALOG SEQUENCE 72-32-20 FIG 01 ITEM 100, 72-32-25
 R FIG 02 ITEM 350 AND 72-32-53 FIG 01 ITEM 400.
 R Chart A Sheet 1

 May 28/04
 R Jul.25/06

V2500-ENG-70-0857
 Appendix 1 - Page 2

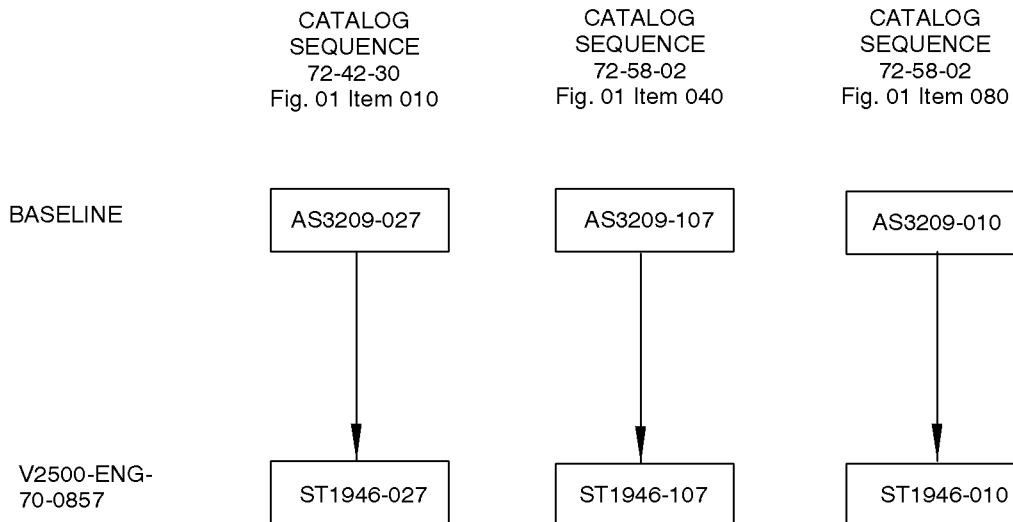
© Rolls-Royce plc

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

MODIFICATIONS

PART NUMBER CHANGE

Printed in Great Britain



R

pw0b513719

R FAMILY TREE - PREFORMED PACKINGS CATALOG SEQUENCE 72-42-30 FIG 01 ITEM 100, 72-58-02
R FIG 01 ITEM 040 AND 72-58-02 FIG 01 ITEM 080.
Chart A Sheet 2

May 28/04
R Jul.25/06

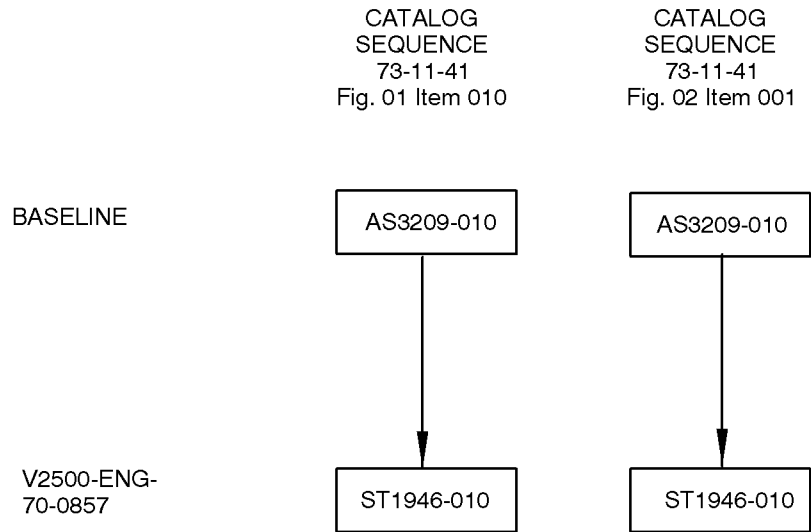
V2500-ENG-70-0857
Appendix 1 - Page 3

© Rolls-Royce plc

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

MODIFICATIONS

PART NUMBER CHANGE



Printed in Great Britain

R

pw0b513721

R
R

FAMILY TREE – PREFORMED PACKINGS CATALOG SEQUENCE 73-11-41 FIG 01 ITEM 010 AND
73-11-41 FIG 02 ITEM 001.
Chart A Sheet 3

May 28/04
R Jul.25/06

V2500-ENG-70-0857
Appendix 1 – Page 4

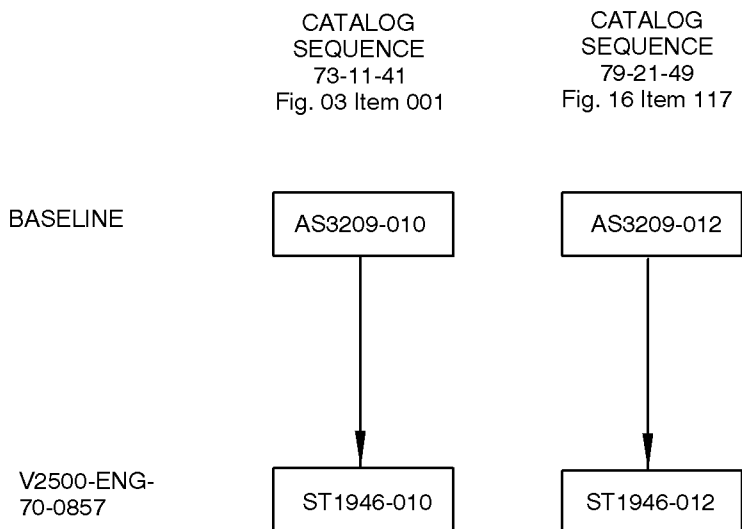
© Rolls-Royce plc

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

MODIFICATIONS

PART NUMBER CHANGE

Printed in Great Britain



R

pw0b513722

R
R

FAMILY TREE – PREFORMED PACKINGS CATALOG SEQUENCE 73-11-41 FIG 03 ITEM 001 AND
79-21-49 FIG 16 ITEM 117.
Chart A Sheet 4

May 28/04
R Jul.25/06

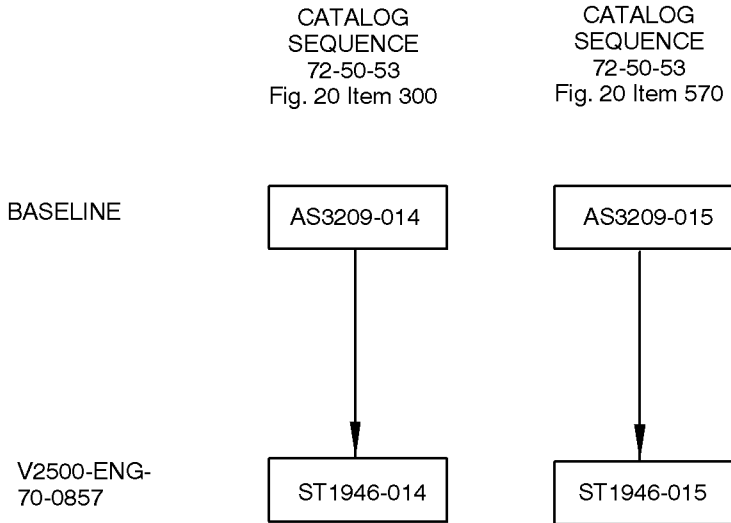
V2500-ENG-70-0857
Appendix 1 – Page 5

© Rolls-Royce plc

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

MODIFICATIONS

PART NUMBER CHANGE



Printed in Great Britain

R

pw0b514611

R

R

FAMILY TREE – PREFORMED PACKINGS CATALOG SEQUENCE 73-50-53 FIG 20 ITEM 300 AND
72-50-53 FIG 20 ITEM 570.

Chart A Sheet 5

May 28/04
R Jul.25/06

V2500-ENG-70-0857
Appendix 1 – Page 6

© Rolls-Royce plc

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

INFORMATION – ENGINE – PROVIDE IMPROVED PREFORMED PACKINGS

SUPPLEMENT – PRICES AND AVAILABILITY

The prices (if shown) are for estimating purposes only and as such are given in good faith, without commercial liability for advanced planning purposes only. Refer to IAE Spares and/or current price catalogue for current prices.

The estimated price of new material to do this Service Bulletin using new replacement parts is \$275.10.

1. Modification Kit:

Not applicable.

2. Parts required:

	Part No.	Description	Unit Price US Dollars
R	ST1946-010	Packing, Preformed	1.50
R	ST1946-012	Packing, Preformed	5.00
R	ST1946-014	Packing, Preformed	1.60
R	ST1946-015	Packing, Preformed	4.70
	ST1946-027	Packing, Preformed	4.50
	ST1946-107	Packing, Preformed	4.50
	ST1946-110	Packing, Preformed	1.50
	ST1946-265	Packing, Preformed	35.00
	ST1946-276	Packing, Preformed	40.00
	ST1946-279	Packing, Preformed	55.00
R	ST1946-280	Packing, Preformed	51.60

