V2500 International Aero Engines

SERVICE BULLETIN

Date: Apr.28/00

Subject: Transmittal of Revision 2 to Service Bulletin No.V2500-ENG-72-0105

Service Bulletin Revision History:

Event	Date
Basic Issue	Dec.20/91
Revision 1	Dec.22/97
Revision 2	Apr.28/00

Reason for Issuance of Revision:

To change the Instruction/Disposition Code Statements of the Rear Faring.

Effect on Past Compliance:

None

List of Effective Pages:

	Bulletin Page No.	Rev. No.	Effective Date
R	1	2	Apr.28/00
	2 and 3	Basic	Dec.20/91
	4	1	Dec.22/97
	5 to 8	Basic	Dec.20/91
R	9 and 10	2	Apr.28/00

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

International Aero Engines

SERVICE BULLETIN

ENGINE - LP COMPRESSOR - INTRODUCE A SEGMENTED REAR FAIRING ASSEMBLY

MODEL APPLICATION

V2500-A1

BULLETIN INDEX LOCATOR

72-32-00

Compliance Category Code	Internal Reference No.
7	EC88VJ343A
	ECM88VJ343A-01
R	ECM88VJ343A-02

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

ENGINE - LP COMPRESSOR - INTRODUCE A SEGMENTED REAR FAIRING ASSEMBLY

1. Planning Information

A. Effectivity

(1) Aircraft

Airbus A320

(2) Engine

V2500-A1 Engines prior to Serial Number V0204

B. Reason

(1) Condition

The existing Rear Fairing Assembly can not be replaced when the engine is installed on the aircraft.

(2) Background

A design review of the existing Rear Fairing Assembly has shown a need for the segmented Rear Fairing Assembly to enable the removal and installation with incorporation of new Fan Exit Guide Vane (FEGV) introduced by IAE Service Bulletin No. V2500-ENG-72-0103.

(3) Objective

The changes introduced by this Service Bulletin are designed to improve the maintainability.

(4) Substantiation

The changes introduced by this Service Bulletin have been subjected to a Endurance Testing on the development engine. The results obtained were satisfactory.

(5) Effects of Bulletin on workshop procedure:

Removal/Installation	Affected (See Supplemental Information)
Disassembly/Assembly	Affected (See Supplemental Information)
Cleaning	Affected (See Supplemental Information)
Inspection/Check	Affected (See Supplemental Information)
Repair	Affected (See Supplemental Information)
Testing	Not affected

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

(6) Supplemental Information

(a) The Removal/Installation and the Disassembly/Assembly will be revised due to new configuration of the Rear Fairing Assembly.

(b) Cleaning, Inspection/Check and Repair will be revised due to new configuration of the Rear Fairing Assembly.

C. Description

(1) The changes introduced by this Bulletin are as follows:

(a) New segmented Fairing Assembly has been introduced to allow the removal and installation (See Figure 2).

(2) This Service Bulletin must be incorporated prior to or concurrently with IAE Service Bulletin No. V2500-ENG-72-0103.

D. Approval

The Part Number transaction shown under the MATERIAL INFORMATION portion of this Bulletin has been shown to comply with the applicable Federal Aviation Regulation and are FAA-APPROVED for the Engine Model listed.

E. Compliance

Category Code 7
Accomplish when supply of superseded parts has been depleted.

F. Manpower

Estimated manhours to incorporate the full intent of this Bulletin:

	Venue	Estimated Man-hours
(1)	In service	Not applicable

(2) At overhaul

NOTE: The parts affected by this Service Bulletin are accessible at overhaul.

(a)	To assemble the segmented Rear Fairing Assemblies ..	31 Minutes
	Total:	31 Minutes

Printed in Great Britain

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

G. Material - Price and Availability

(1) Modification kit is not required. Parts are supplied as single line items.

(2) See "Material Information" section for prices and availability of future spares.

H. Tooling - Price and Availability

Special tool are not required to accomplish this Bulletin.

I. Weight and Balance

(1) Weight change	.. ..	Plus 0.45 lb (0,20 kg)
(2) Moment arm	.. ..	No effect.
(3) Datum	.. .. ..	Engine front mount centerline (Power Plant Station (PPS) 100)

J. Electrical Load Data

This Bulletin has no effect on the aircraft electrical load.

K. References

(1) IAE Service Bulletin No. V2500-ENG-72-0103, "Engine-LP Compressor-Provide a New Weight Reduced Fan Case Assembly".

(2) V2500 Engine Illustrated Parts Catalog, Chapter/Section 72-32-00 and 72-32-86.

(3) V2500 Engine Manual, Chapter/Section 72-32-00 Assembly.

L. Other Publication Affected

(1) V2500 Engine Illustrated Parts Catalog, Chapter/Section 72-32-00 and 72-32-86

R (2) A320 Aircraft Illustrated Parts Catalog, Chapter/Section
R 72-32-00 and 72-32-86

(3) A320 Aircraft Maintenance Manual, Chapter/Section 72-32-88 Removal/Installation

(4) V2500 Engine Manual, 72-32-00 Disassembly-04, Disassembly-07, Assembly-09, Assembly-12, 72-32-86 Cleaning-00, Cleaning-01, Inspection/Check-00, Inspection/Check-01, Repair 001 and 002

Printed in Great Britain

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

2. Accomplishment Instructions

A. Rework Instructions

There are no rework Instructions necessary to accomplish this Service Bulletin.

B. Assembly Instructions

(1) Make sure that the Fan Exit Guide Vane Assemblies (FEGV's) are assembled to the LP Compressor/Intermediate Case Module before assembly of the new Rear Fairing Assembly.

CAUTION: CAREFULLY ASSEMBLE THE REAR FAIRING ASSEMBLY TO PREVENT DAMAGE TO THE SCREEN.

(2) Assemble the five 5A0833, Rear Fairing Assembly, to the LP Compressor/ Intermediate Case Module as follows (Refer to Figures 2 and 3):

(a) Move each 5A0833, Rear Fairing Assembly from the rear to the front through air path between the struts of Fan Frame Assembly.

(b) Put the five 5A0833, Rear Fairing Assemblies in to specified positions.

(c) Adjust position of the five 5A0833, Rear Fairing Assemblies so that you can install the ten 4W2326, Screws, and the ten 5A0949, Sleeves correctly.

(d) Install the ten 4W2326, Screws, 5A0949, Sleeves, MS21295-44, Socket Head Bolts, and MS51496C75, Washers to the five 5A0833, Rear Fairing Assemblies. Tighten the Screws and the Bolts lightly.

(e) Make sure that the five 5A0833, Rear Fairing Assemblies, the ten 4W2326, Screws, 5A0949, Sleeves, MS21295-44, Socket Head Bolts and MS51496C75, Washers are installed to correct positions.

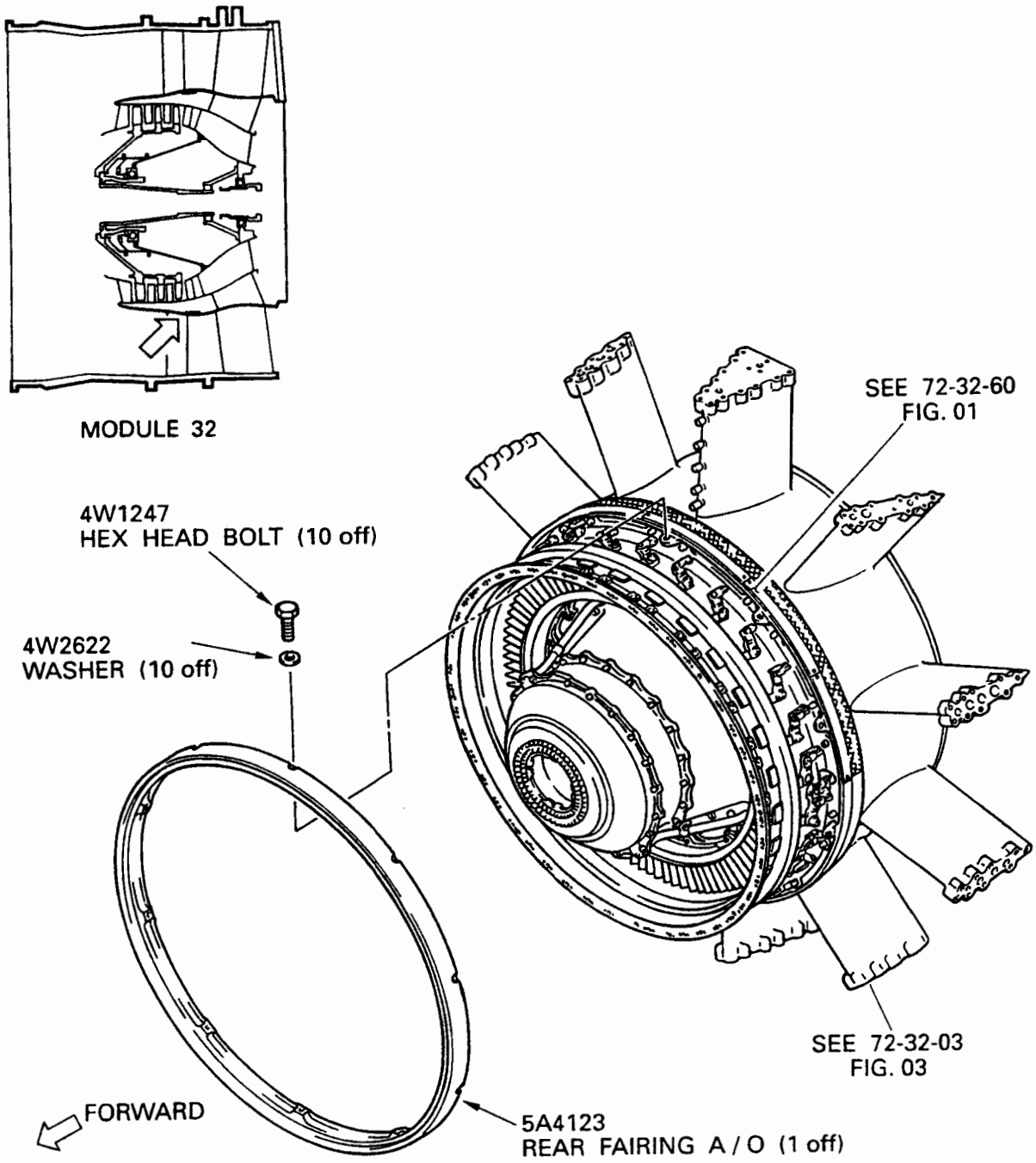
(f) Torque each 4W2326, Screw to 36 - 45 lbfin (4,00 - 5,00 Nm).

(g) Torque each MS21295-44, Socket Head Bolt to 85 - 105 lbfin (10,00 - 12,00 Nm).

C. Recording Instructions

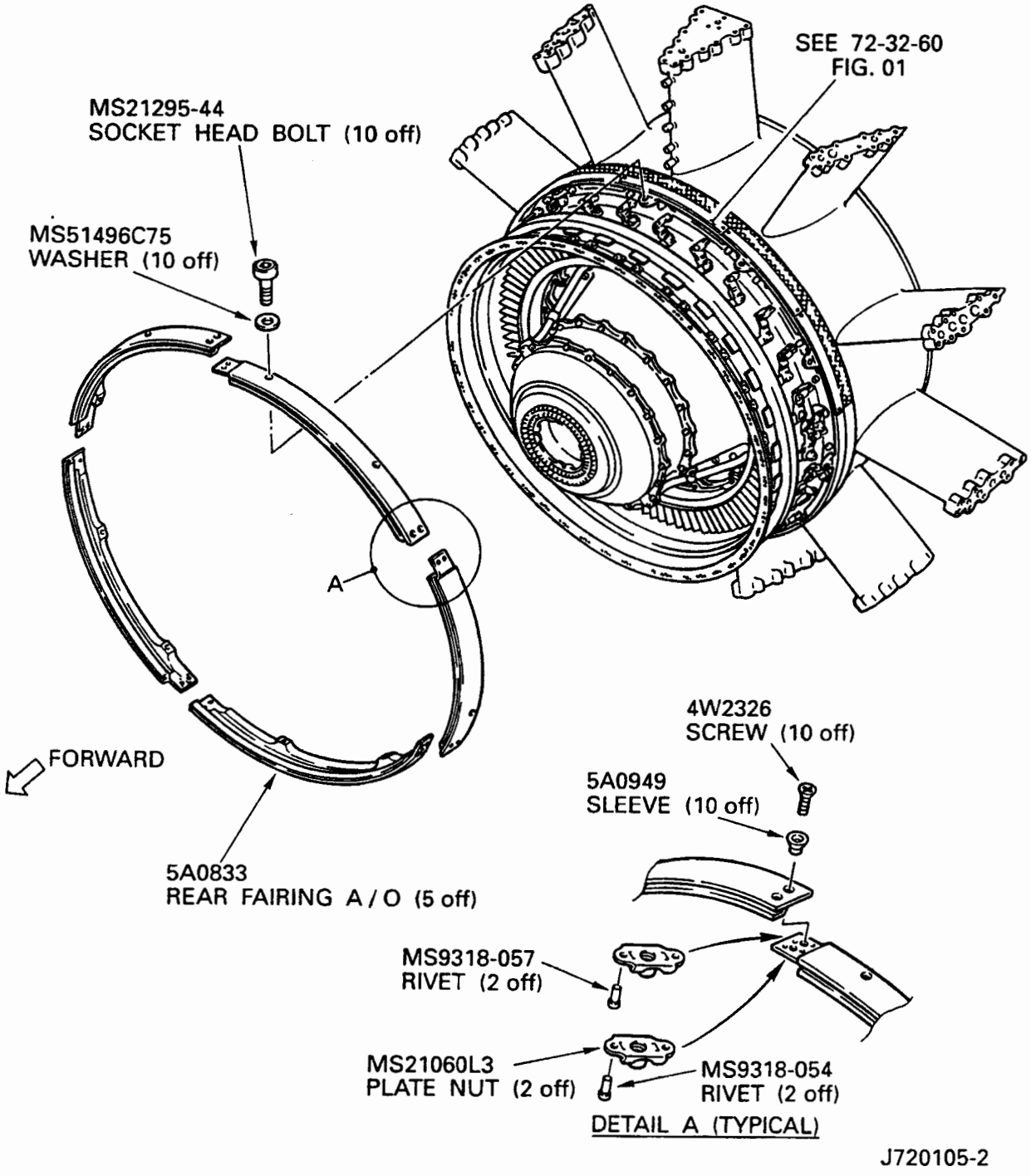
A record of accomplishment is necessary.

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



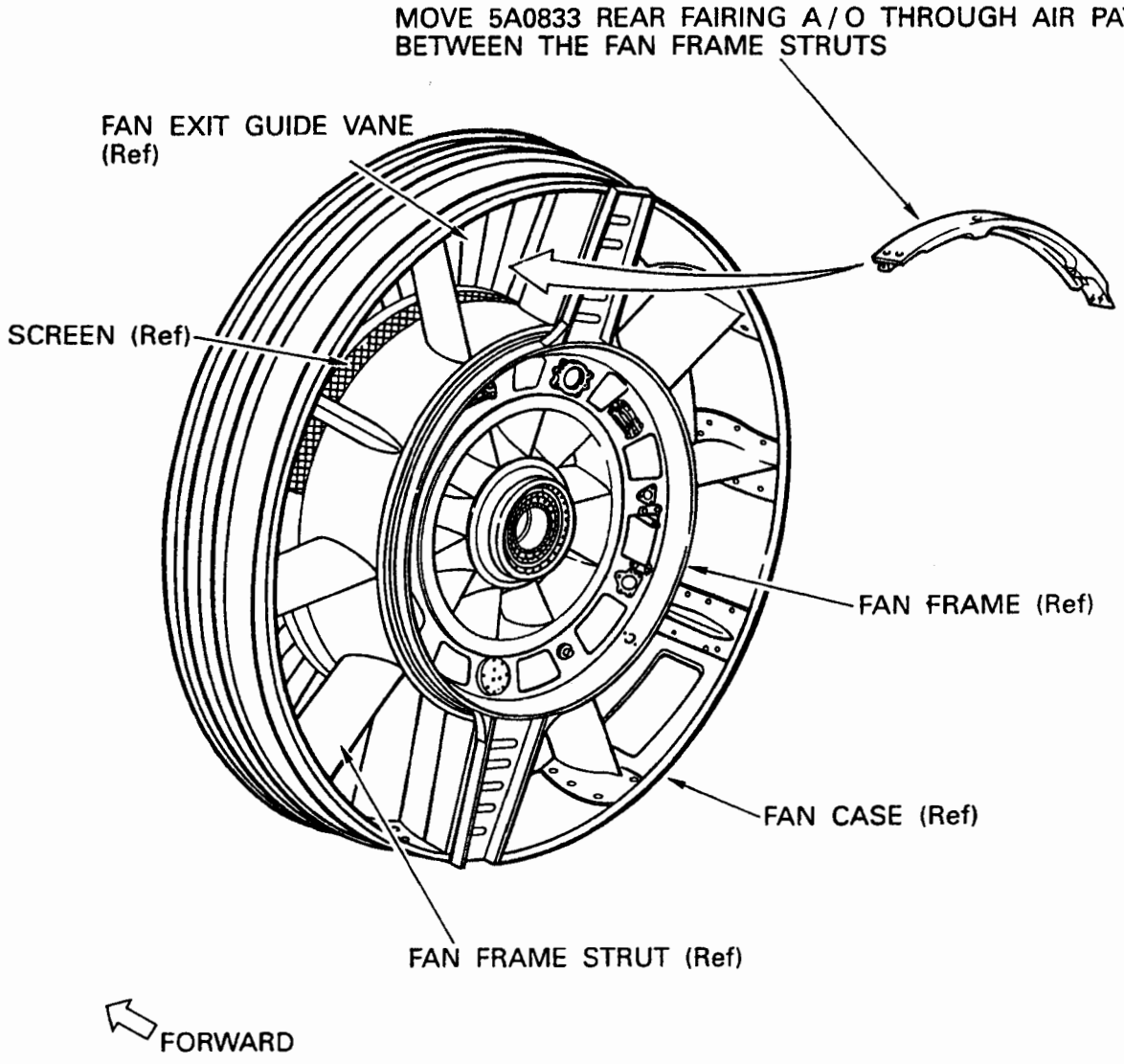
Rear Fairing Assembly - Before Alteration
Figure 1

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



Rear Fairing Assembly - After Alteration
Figure 2

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



J720105-3

Assembly of the Rear Fairing Assembly
Figure 3

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

3. Material Information

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

A. Kit associated with this Bulletin:

None.

B. Part affected by this Bulletin:

	New Part No. (ATA No.)	Qty	Est'd Unit Price($)	Keyword	Old Part No. (IPC No.)	Instruction/ Disposition
	MS21295-44 (72-32-00)	10		.Bolt, Socket Head	4W1247 (02-852)	(A)(B)(S1)
	MS51496C75 (72-32-00)	10		.Washer	4W2622 (02-855)	(A)(C)(S1)
	4W2326 (72-32-00)	10	5.42	.Screw, Option	- (02-857)	(A)(S1)(1D)
	5A0949 (72-32-00)	10		.Sleeve	- (02-860)	(A)(S1)(1D)
R	5A0833 (72-32-86)	5		.Fairing, A/O Rear	5A4123 (01-100)	(A)(D)(S1)
	MS9318-057 (72-32-86)	2		..Rivet	- (01-124)	(A)(S1)(1D)
	MS9318-054 (72-32-86)	2		..Rivet	- (01-125)	(A)(S1)(1D)
	MS21060L3 (72-32-86)	2	1.37	..Nut, Plate	- (01-126)	(A)(S1)(1D)

NOTE: The unit prices, if shown, are an estimate and they are given for the purposes of planning only. For information about actual prices, refer to the IAE Price Catalog or contact IAE's Spare arts Sales Department.

C. Instruction/Disposition Code

(A) New Parts are currently available for sale.
(B) Old Part will continue to be available for sale.
(C) Old Part will continue to be supplied on other application.
R (D) Old Part will continue to be supplied until the existing stock is
R exhausted.

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

(S1) New Part code (S1) must replace Old Parts coded (S1) as a COMPLETE SET per engine.
(1D) Additional Parts.

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