



ENGINE - FUEL AND CONTROL - SELECTIVE REPROGRAMMING OF THE DATA ENTRY PLUG ASSEMBLY -
CATEGORY CODE 4 - MOD.ENG-73-0013

1. Planning Information

A. Effectivity

- (1) Aircraft: Airbus A320
- (2) Engine: V2500-A1 Engine Serial No.V0018, V0022, V0036, V0066, V0068, V0073, V0082, V0084, V0086, V0088 and V0158.

B. Reason

(1) Condition

The Data Entry Plug Assembly in some service engines is not wired for the correct EPR modifier class or the engine serial number.

(2) Background

The production data processed after the final production cross stand checks and duct set calibration has shown that some engines do not have the correct EPR modifier class wired into the Data Entry Plug Assembly. Also one engine was shipped with an incorrect engine serial number wired into the Data Entry Plug Assembly.

(3) Objective

To retrofit the Data Entry Plug Assemblies in the affected engines to change the EPR modifier class and the engine serial number.

(4) Substantiation

Considered not necessary.

(5) Effects of Bulletin on Workshop Procedures:

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

(6) Supplemental Information

None.

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**C. Description**

- (1) The engines with the incorrect EPR modifier class wired into the Data Entry Plug must be retrofitted. The engine with the incorrect engine serial number must be retrofitted to correct the engine identification for the aircraft system.

(a) Retrofit the Data Entry Plug Assembly.

D. Approval

The Part Number Changes and/or part modifications described in Sections 2 and 3 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. Compliance

Category Code 4.

Accomplish at the first visit of an engine or a 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
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(1) In service

(a) To gain access

(b) To embody

(c) To return engine to flyable
status 30 minutes

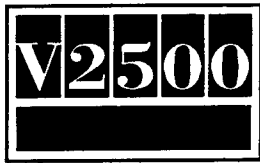
(2) In shop Not applicable

G. Material – Price and Availability

(1) Modification Kit not required.

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

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SERVICE BULLETIN

H. Tooling - Price and Availability

The following tool is required to accomplish Sub-division 2 of this Service Bulletin:

Special Tools:

Tool No.	Qty	Description	Function	Avail.
IAE1J12018	1	EEC Harness Wrench	Torque Data Entry Plug	(1)

Standard Tools:

NOTE: The standard tool that follows is necessary to do the modification in this Service Bulletin.

TG-70	1	Strap Wrench	Torque the Data Entry	(2)
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(1) Indicates that Tool Design Aperture Cards are currently available from IAE.

(2) The tool can be purchased from the following supplier:

Daniels Manufacturing Corp.
6103 Anno Ave.
Orlando, FL. USA 32809-5033

I. Weight and Balance

- (1) Weight change None
- (2) Moment arm No effect
- (3) Datum Engine front mount centerline
(Powerplant station P.P.S.100)

J. Electrical Load Data

This Service Bulletin has no effect on the aircraft electrical load.

K. References

(1) Internal Reference No.

IEN89VC089

IEN89VC089A

(2) Other References

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A320 Aircraft Maintenance Manual.

V2500 Standard Practices Manual.

L. Other Publications Affected

(1) None

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2. ACCOMPLISHMENT INSTRUCTIONS

A. Pre-requisite Instructions

- (1) On the aircraft panel 1L5VU, put a warning notice to tell the persons not to start the engines.
- (2) On the aircraft panel 50VU, make sure that the "ON" legend on the ENG FADEC GND PWR push button switch is OFF and install a warning notice.
- (3) Open the fan cowls by use of the approved procedures in Reference (1), Chapter/Section 71-13-00, (TASK 71-13-00-010-010).
- (4) Disconnect the Data Entry Plug Assembly (73-22-35) from the EEC. Refer to Figure 1.

B. Removal Instructions

- (1) Remove the lockwire from the Data Entry Plug Backshell and the Connector. Refer to Figure 1.
- (2) Loosen the Backshell Nut, but do not remove the Backshell. Use a TG-70 Strap Wrench, or equivalent.
- (3) Disconnect the Data Entry Plug Assembly from the EEC. Use the IAE 1J12018 EEC Harness Wrench.

NOTE: Do not remove the Data Entry Plug Connection Chain from Flange FC to do the modification specified.

C. Rework Instructions

- (1) Remove the lockwire from the Data Entry Plug Backshell and Connector Assembly. Refer to Figure 1.
- (2) Remove the Connector Assembly from the Backshell.
- (3) Remove the Anti-Vibration Rubber from the Connector Assembly.
- (4) Replace the Connector Assembly.
- (5) Install the Anti-Vibration Rubber on the new Connector Assembly.
- (6) Install the Connector Assembly into the Backshell.
- (7) Tighten and torque the Backshell to 19 - 26 lbfin (2,147 - 2,938 Nm) with a strap wrench by use of the approved procedure in Reference (1), Chapter/Section 70-23-11, (TASK 70-23-11-911-012).



- (8) Safety the Backshell to the Connector Assembly with Comat 02-138 Lockwire.
- (9) Identify the Data Entry Plug Assembly Plug Backshell and the Engine Identification Plate. Use the approved vibropeen procedure in Reference (2), Chapter/Section 70-09-00, Marking of Parts, and as follows:
- (a) For engine serial numbers V0018 and V0022, change the Data Entry Plug Backshell EPR MOD. No. from 07 to 08.
 - (b) For engine serial numbers V0018 and V0022, change the Engine Identification Plate EEC PROGRAM PLUG from -07 to -08.
 - (c) For engine serial numbers V0066, V0068 and V0088, change the Data Entry Plug Backshell EPR MOD. No. from 08 to 09.
 - (d) For engine serial numbers V0066, V0068, V0082 and V0088, change the Engine Identification Plate EEC PROGRAM PLUG from -08 to -09.
 - (e) For engine serial numbers V0036, V0084 and C0086, change the Data Entry Plug Backshell EPR MOD. No. from 09 to 10.
 - (f) For engine serial numbers V0036, V0084 and V0086, change the Engine Identification Plate EEC PROGRAM PLUG from -09 to -10.
 - (g) For engine serial number V0073, if applicable change the Data Entry Plug Backshell ENG. S/N to V0073.
 - (h) For engine serial number V0158, change the Data Entry Plug Backshell EPR MOD. No. from 06 to 07.
 - (i) For engine serial number V0158, change the Data Entry Plug Engine Identification Plate EEC PROGRAM PLUG from -06 to -07.

D. Assembly Instructions

- (1) Connect the Data Entry Plug Assembly to the EEC. Refer to Figure 1.
- (2) Tighten and torque the Plug Assembly to 32 lbfin (3,6 Nm). Use the IAE 1J12018 EEC Harness Wrench. See Reference (2), Chapter/Section 70-41-00, (TASK 70-41-00-400-501).
- (3) Tighten and torque the Backshell to 53 - 58 lbfin (5,99 - 6,55 Nm). Use a TG-70 Strap Wrench, or equivalent. See Reference (2), Chapter/Section 70-41-00, (TASK 70-41-00-400-501).
- (4) Safety the Backshell to the Connector with CoMat 02-138 Lockwire. See Reference (1), Chapter/Section 70-41-11, (TASK 70-40-11-911-012).

E. Post-requisite Instructions

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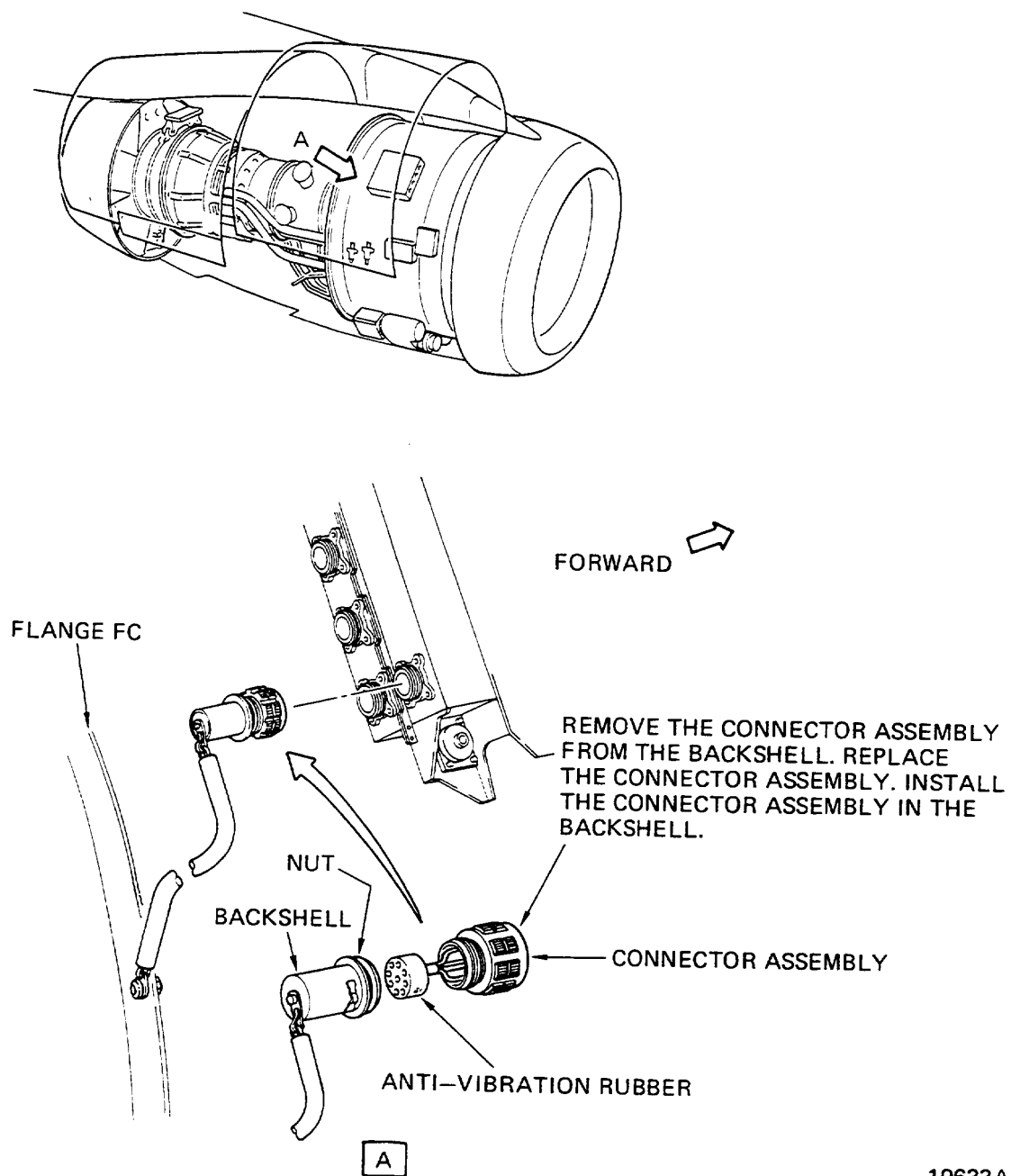


(1) Close the Fan Cowls by use of the approved procedure in Reference (1), Chapter/Section 71-13-00 (TASK 71-13-00-410-010).

(2) Remove the warning notices.

F. Recording Instructions

(1) A record of accomplishment is necessary.



19633A

Data Entry Plug Assembly
Fig.1

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3. Material Information

Applicability: For each V2500 Engine 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.)	Instructions Disposition
(01-200, 73-22-35)	-	-	-	-	(1D)(2D)

C. Instruction/Disposition Code Statements:

(1D) Get the new Data Entry Plug Connector Assembly from your IAE Representative.

(2D) Return the old Data Plug Connector Assembly to your IAE Representative.

