



ENGINE - LP COMPRESSOR - TO ANNOUNCE THE NEW BIFURCATION BOX COVER - CATEGORY CODE 7 -
MOD.ENG-72-0245

1. Planning Information

A. Effectivity

- (1) Aircraft: McDonnell Douglas MD-90
- (2) Engine: (a) V2525 - D5 Engines prior to Serial Number V20089
(b) V2528 - D5 Engines prior to Serial Number V20089

B. Reason

(1) Condition

It was decided to reduce the weight of the Bifurcation Box Cover as a part of engine weight reduction program.

(2) Background

A review of the existing cover has shown that the significant weight saving can be achieved by change of material from stainless steel to aluminium alloy.

(3) Objective

The changes introduced by this Service Bulletin are designed to reduce the engine weight.

(4) Substantiation

Satisfactory analytical review.

(5) Effects of Bulletin on Workshop Procedures:

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

(6) Supplemental Information

- (a) The Removal/Installation of the post-Service Bulletin configuration is affected due to the information of the zinc chromate primer.

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(b) The cleaning and inspection/check procedure will be revised to add the new configuration of this Service Bulletin.

(c) Existing Repair scheme for bifurcation box cover, (VRS1883) is not applicable to the new cover introduced by this Service Bulletin.

C. Description

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

(a) To change the skin material of the bifurcation box cover from stainless steel to aluminium alloy.

(b) Engine weight will be decreased 3.5 lb. (1,59 kg).

D. Approval

The Part Number Changes and/or part modifications described in Section 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

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Accomplish when supply of superseded parts has been depleted.

F. Manpower

Estimated manhours to incorporate the full intent of this Bulletin:

Not Applicable

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 tools are not required to accomplish this Service Bulletin.

I. Weight and Balance

(1) Weight change Minus 3.5 lb. (1.59 kg)

(2) Moment arm No effect

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(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.

96VJ001

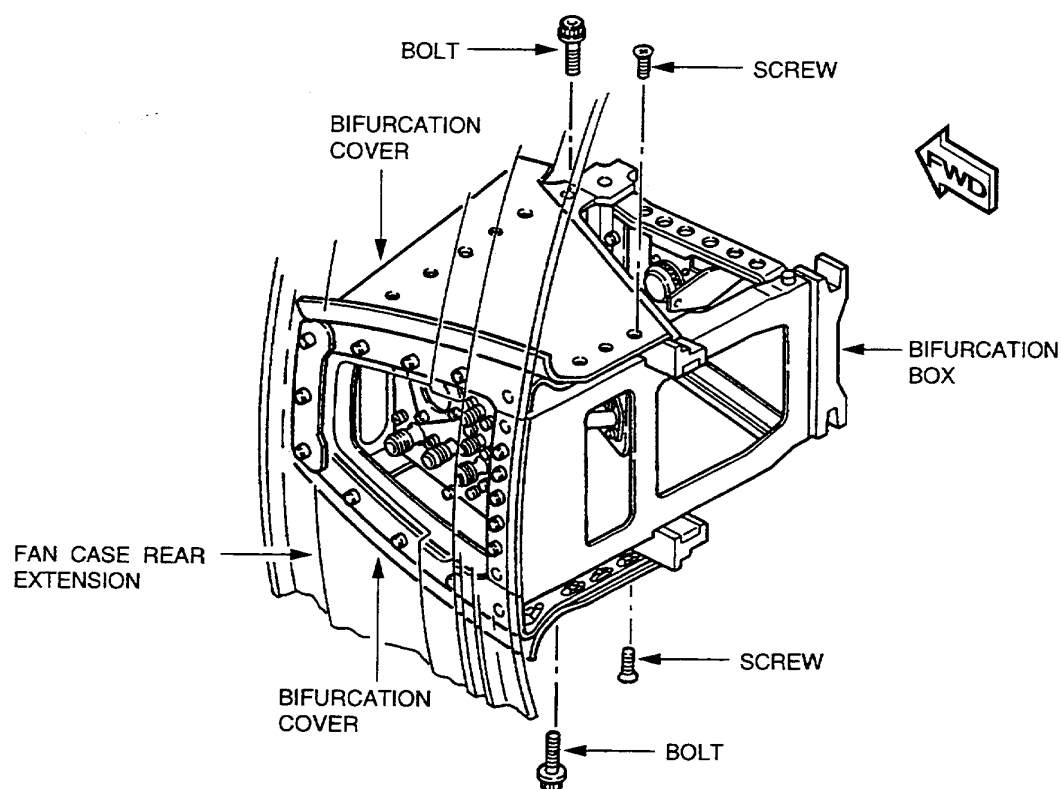
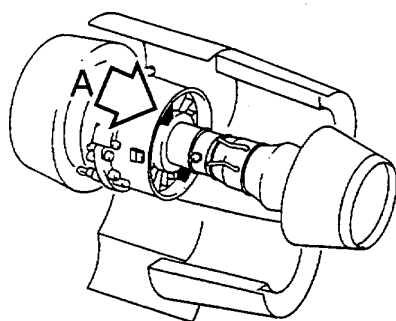
(2) Other references

V2500 Engine Manual, (E-V2500-3IA)

L. Other Publications Affected

(1) V2500 Illustrated Parts Catalogs (S-V2500-3IA), Chapter/Section 72-38-27.

(2) V2500 Engine Manual (E-V2500-3IA), Chapter/Section 72-00-32,
Installation-01, Config-1 and Config-2.



Installation of the Bifurcation Box Cover
Fig.1

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2. Accomplishment Instructions

A. Rework Instructions

None

B. Assembly Instructions

- (1) Clean the mating surfaces of the new Bifurcation Box Covers and securing screws with CoMat 01-076 cleaning fluid and CoMat 02-099 lint free cloth.
- (2) Apply CoMat 07-070 zinc chromate primer to the mating surfaces of the new Bifurcation Box Covers and securing screws.
- (3) Install the new Bifurcation Box Covers by the instructions given in reference (1), Chapter/Section 72-00-32, Installation-01, Config-1 or Config-2.

C. Recording Instructions

- (1) A record of accomplishment is necessary.



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3. Material Informations

Applicability: For each V2525-D5 or V2528-D5 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
5T0143 (72-38-27)	2	7962.0	.Cover, A/O Bifurcation Box	5T0132 (01-700)	(1)(A)(B)
5T0144 (72-38-27)	2	7962.0	.Cover, A/O Bifurcation Box	5T0133 (01-800)	(1)(A)(B)

C. Consumables Required to Incorporate this Bulletin

CoMat 01-076	Methyl ethyl ketone
CoMat 02-099	Lint free cloth
CoMat 07-070	Zinc chromate primer

D. Supply Status Code Statements:

- (1) Old and new parts are freely and fully interchangeable, both physically and functionally.
(A) New part is currently available.
(B) Old part will no longer be available

NOTE: The estimated 1996 unit prices shown are provided for planning purposes only and do not constitute a firm quotation. Consult the IAE Price Catalog or contact IAE's Spare Parts Sales Department for information concerning firm prices.

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