



ENGINE - AIR - TO ANNOUNCE THE INTRODUCTION OF A SPACER AT CLIPPING POINT CP2423 (NO.4 BEARING SCAVENGE VALVE AIR SERVO TUBE) - CATEGORY CODE 7 - MOD.ENG-75-0042

1. Planning Information

A. Effectivity

- (1) Aircraft: McDonnell Douglas MD-90
- (2) Engine: V2500-D5 Engines prior to Serial No.20009

B. Concurrent Requirements

None

C. Reason

(1) Condition

Possible misalignment of the No.4 bearing scavenge valve air servo tube with the support bracket at CP2423.

(2) Background

The condition was highlighted during the review of a Class III mock-up engine.

(3) Objective

Incorporation of this Service Bulletin is designed to eliminate the possible misalignment of the No.4 bearing scavenge valve air servo tube with the support bracket at CP2423.

(4) Substantiation

A successful trial installation on a mock-up engine has demonstrated the elimination of the possible misalignment.

(5) Effect of Bulletin on Workshop Procedures:

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

(6) Supplemental Information

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- (a) The Removal/Installation will be revised to add the new configuration of this Service Bulletin.

D. Description

- (1) This Service Bulletin introduces a 5 mm spacer at CP2423, positioned between the support bracket and the pipe clip.
- (2) A longer bolt is introduced to accommodate the additional spacer.

E. 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.

F. Compliance

Category Code 7

Accomplish when supply of superseded parts has been depleted.

G. Manpower

Estimated manhours to incorporate the full intent of this Bulletin:

Venue	Estimated Manhours
(1) In Service	Not applicable
(2) At Overhaul	Not affected

H. Material – Price and Availability

- (1) Modification kit not required.
- (2) See "Material Information" section for prices and availability of future spares.

I. Tooling – Price and Availability

Special tools are not required.

J. Weight and Balance

- (1) Weight change None
- (2) Moment arm No effect

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(3) Datum Engine front mount
centreline (Power
Plant Station (PPS) 100)

K. Electrical Load Data

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

L. References

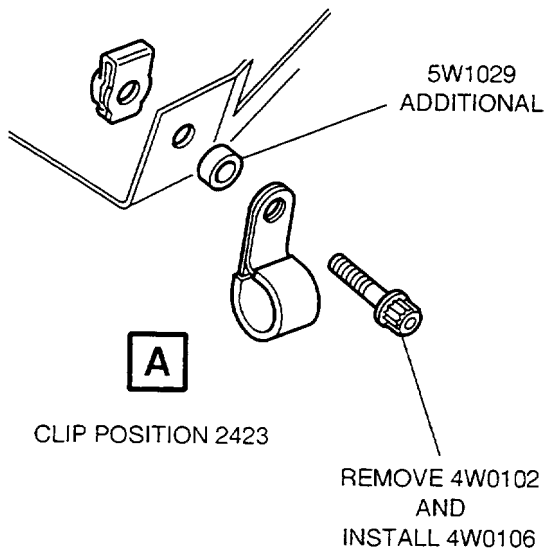
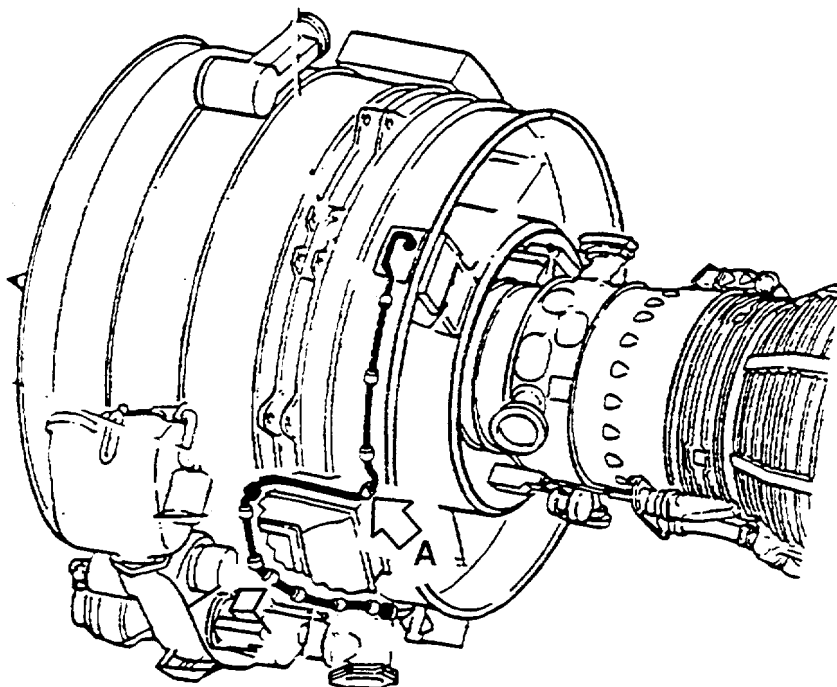
(1) Internal Reference No.

EC94VR022

M. Other Publications Affected

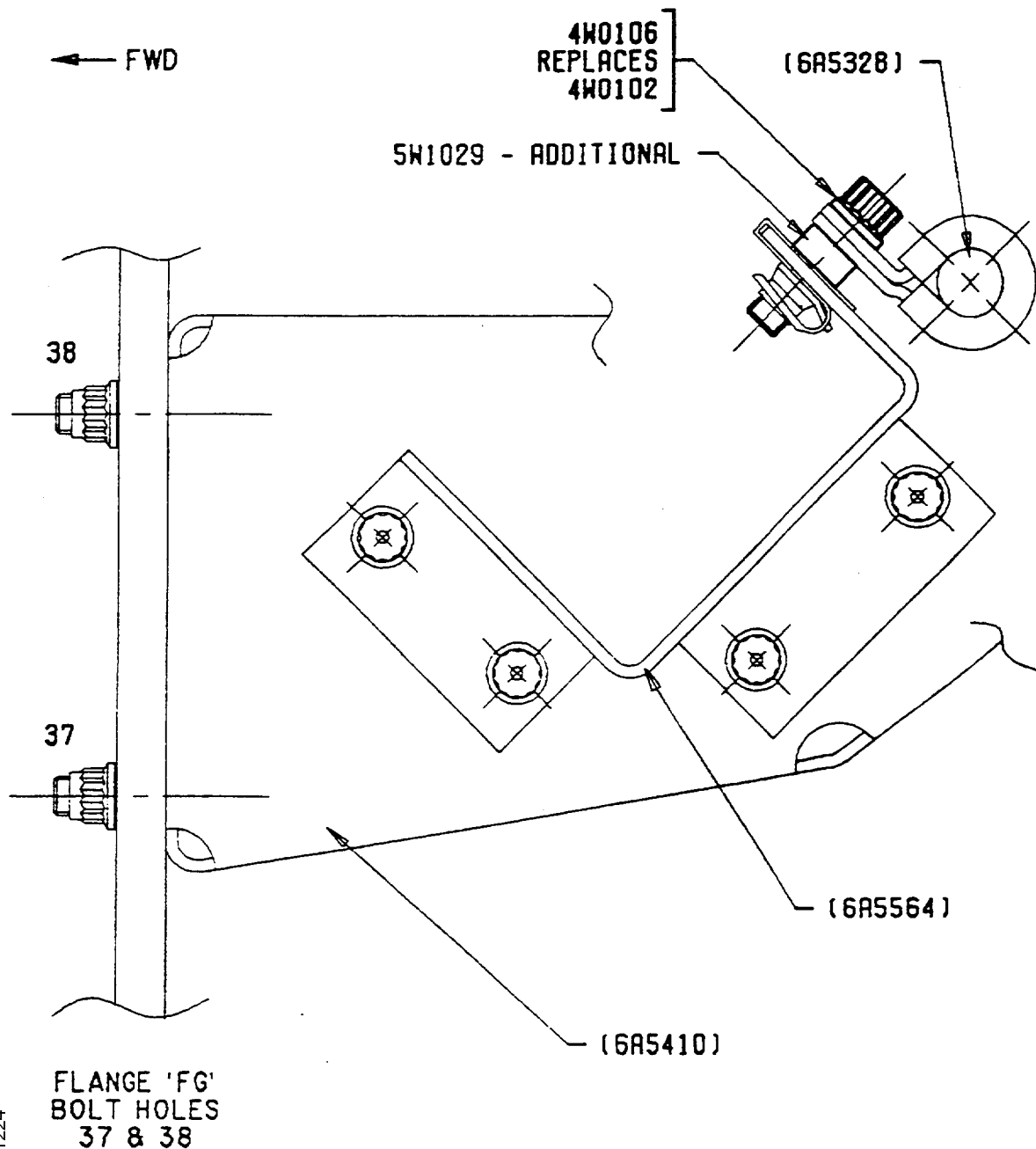
(1) The V2500 Engine Illustrated Parts Catalog, Chapter/Section 75-22-49.

(2) The V2500 Engine Manual, Chapter/Section 72-00-32, Removal/Installation.



Location of clipping point 2423
Fig.1

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Clipping point 2423 - Befor and after alteration
Fig.2

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2. Accomplishment Instructions

A. Rework Instructions

- (1) There are no rework instructions necessary to accomplish this Service Bulletin.

B. Assembly Instructions

- (1) Locate the No.4 bearing scavenge valve our servo tube clipping point (CP2423) and remove the existing bi-hex bolt (4W0102). Refer to Figures 1 and 2.
- (2) Install the new spacer (5W1029) between the air tube clipping point and the support bracket. Install the new longer bi-hex bolt (4W0106) and torque to 36 to 45 lbfin. (4 to 5 Nm).

C. Recording Instructions

- (1) A record of accomplishment is necessary.



SERVICE BULLETIN

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
4W0106 (75-22-49)	1	4.39	Bolt, bi-hex head	4W0102 (06-149)	(A)(C)
5W1029 (75-22-49)	1	10.60	Spacer	- (06-154)	(A)(B)

C. Instructions/Disposition Code Statements:

- (A) New parts are currently available
- (B) Additional
- (C) Old part will continue to be used at other locations

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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