ENGINE – FUEL AND CONTROL – ENGINE FUEL AND CONTROL – FUEL SYSTEM TUBES – FUEL SERVO TUBE WITH REPOSITIONED CLIPPING LUG – CATEGORY CODE 7 – MOD.ENG-73-0053

1. Planning Information

   A. Effectivity

      (1) Aircraft McDonnell Douglas MD-90

      (2) Engine   V2500-D5 Engines before Serial No.V20007

   B. Concurrent Requirements

      None

   C. Reason

      (1) Condition

           Insufficient access to secure clip point 7004.

      (2) Background

           At build of the first D5 engine it was not possible to tighten the bolt
           at clip point 7004. The proximity of the LH bifurcation box cross-beam
           precluded spannering access. The clip point secures together the servo
           fuel supply and return tubes between the bifurcation box and 4 way
           adaptor.

           This was initially overcome by fitting back-to-back clipping (designated
           CP7004A). The tube clipping lug was retained but unused.

      (3) Objective

           To provide positive clip location.

      (4) Substantiation

           An assembly check established that the new tube with repositioned
           clipping lug allows spannering access.

      (5) Effect of Bulletin on Workshop Procedures:

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

(6) Supplemental Information

   None

D. Description

The tube supplying fuel to the B.S.B.V. actuators is replaced by an identical tube on which the clipping lug has been repositioned.

Clip point CP7004A is replaced by CP7004.

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

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Accomplish when supply of superseded parts has been depleted.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.

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J. <u>Weight and Balance</u>

    (1)   Weight change   ..   ..   ..   None

    (2)   Moment arm   ..   ..   ..   No effect

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

K. <u>Electrical Load Data</u>

    This modification has no effect on the aircraft load.

L. <u>References</u>

    (1)   Internal Reference No.

         93VR072

    (2)   Other References

        The V2500 Engine Manual, Chapter/Section 72-00-32 and 72-00-42,
        Removal/Installation.

        The MD-90 Aircraft Maintenance Manual, Chapter/Section 73-11-49.

M. <u>Other Publications Affected</u>

    (1)   The V2500 Illustrated Parts Catalogue Chapter/Section 73-11-49.

    (2)   The V2500 Engine Manual, Chapter/Section 72-00-32 and 72-00-42.

2. <u>Accomplishment Instructions</u>

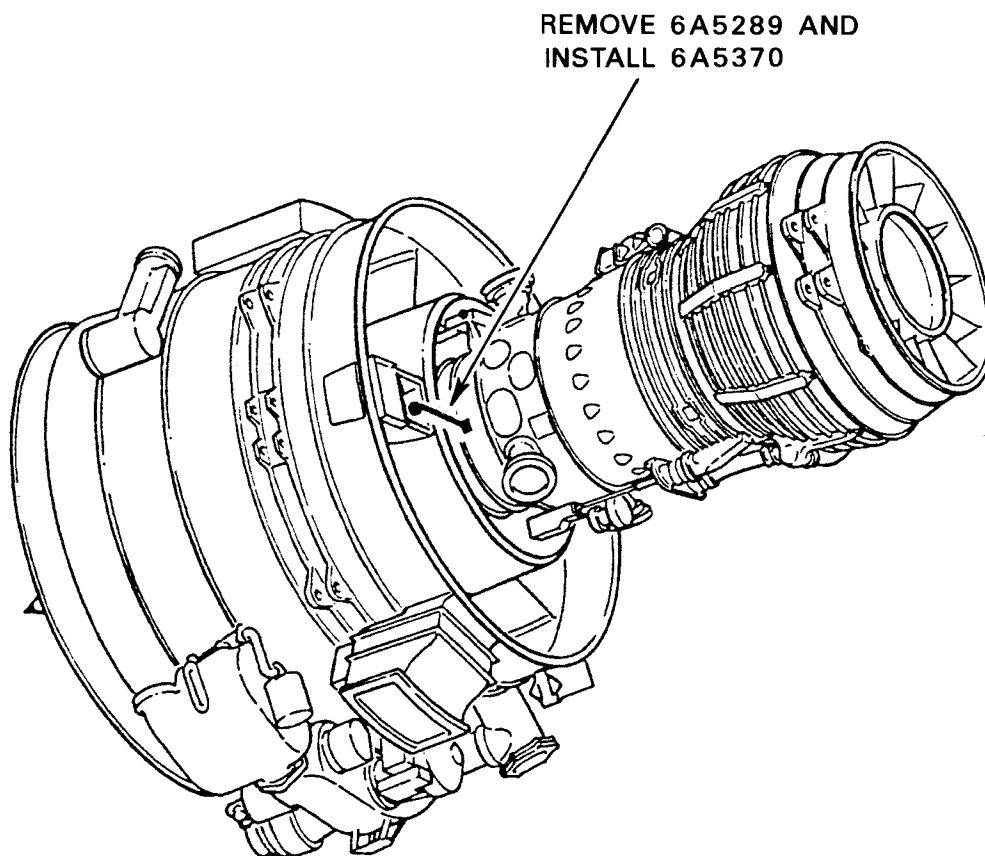   A. Rework Instructions

      Not applicable

   B. Assembly Instructions

      (1) Install the new clipping assembly in accordance with the approved
           procedures, ref V2500 Engine Manual, Chapter/Section 72-00-32 and
           72-00-42, Installation.

   C. Recording Instructions

      A record of accomplishment is necessary

REMOVE 6A5289 AND
INSTALL 6A5370

E3383

Location of fuel servo tube
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
6A5370 (73-11-49)	1	2321-00	Tube assy, fuel - LH bifurcation box to 4 way connector		6A5289 (11-100)	(A)(B)
– (73-11-49)	1		Clip	CP7004A	AS62408 (11-128)	(C)(D)
4W0111 (73-11-49)	1	4-07	Bolt, bi-hex	CP7004	AS21416	(A)(C)
LK53268 (73-11-49)	1	12-10	Spacer	CP7004	LK67295	(A)(C)

   C. Instructions/Disposition Code Statements

   (A) New part is currently available
   (B) Old part is no longer available
   (C) Old part can be used up in other applications
   (D) Deleted part

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