International Aero Engines

SERVICE BULLETIN

POWER PLANT - DRAINS TUBES AND MAST - RESET OIL SCUPPER DRAINS TUBE AND MODIFIED SUPPORT BRACKETS AT CLIPPING POINT 2607 - CATEGORY CODE 7 - MOD.ENG-71-0151

1. Planning Information

A. Effectivity

(1) Aircraft: McDonnell Douglas MD-90

(2) Engine: V2500-D5 Engines prior to Serial No.V20009.

B. Concurrent requirements

None

C. Reason

(1) Condition

See "Background"

(2) Background

A foul may occur between the oil scupper drains tube outlet and the fan cowl vent louvres, also between the tube and the support bracket at CP2607.

(3) Objective

To provide clearance between the tube outlet and the vent louvres and also between the tube and the support bracket at CP2607.

(4) Substantiation

A trial assembly on a mock-up engine has demonstrated adequate clearance between the scupper drain tube outlet and the cowl vent louvres.

(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

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

D. Description

The changes introduced by this Service Bulletin are as folows:

(a) A new tube assembly reset locally at the location of fan cowl vent louvres.

(b) A new bracket with an altered profile ensuring improved clearance between the bracket and the scupper drain tube.

E. 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.

F. Compliance

Category Code 7

Accomplish when supply of superseded parts have been depleted.

G. Manpower

Estimated manhours to incorporate the fill 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	T.B.A.
(2) Moment arm	T.B.A.
(3) Datum	Engine front mount centreline (Power Plant Station (PPS) 100)

K> Electrical Load Data

This Bulletin has no effect on the aircraft electrical load.

L. References

(1) Internal Reference No.

EC94VR009A

(2) Other references

Overhaul Processes and Consumable Index (PCI-V2500-1IA)

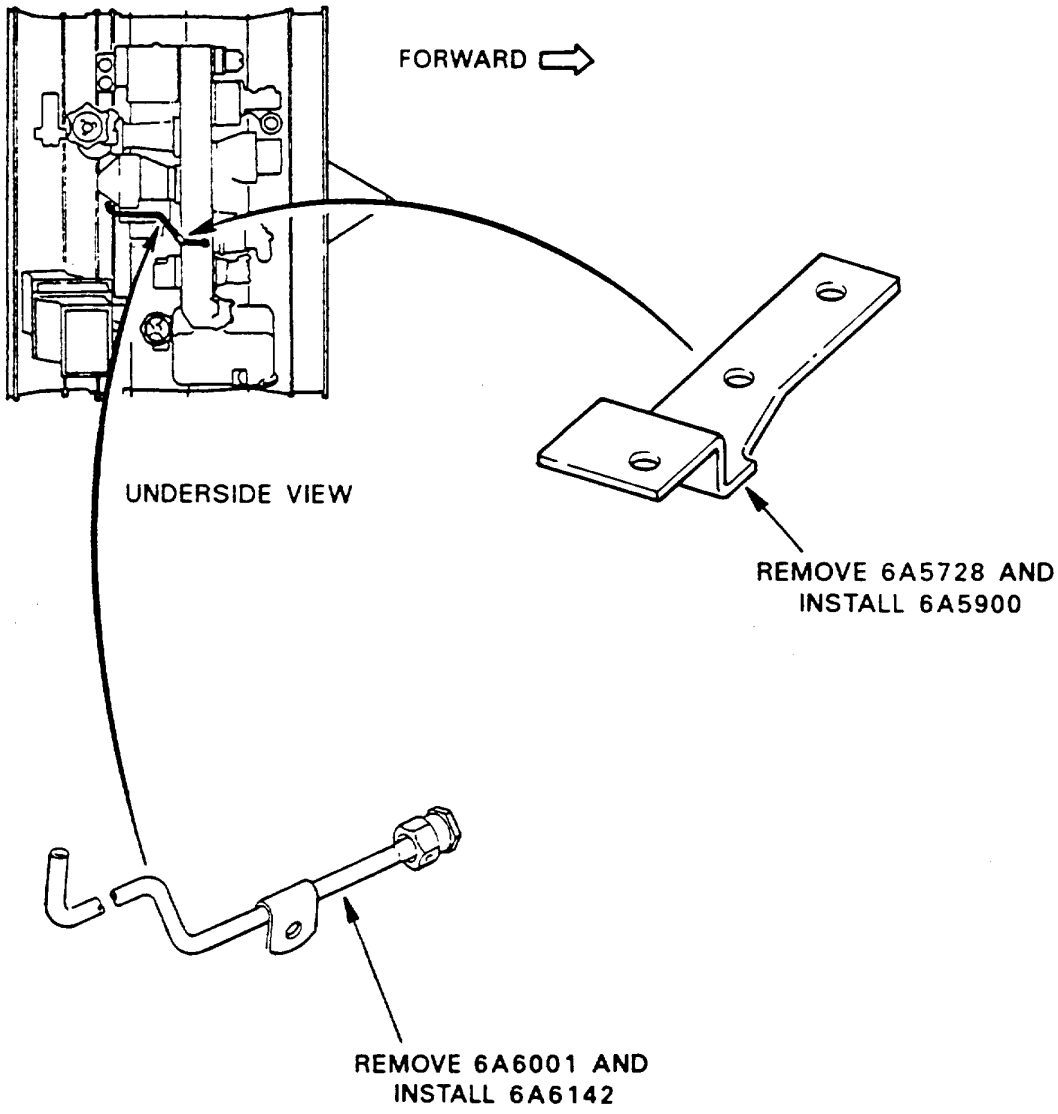
M. Other Publication Affected

(1) V2500 Illustrated Parts Catalog (S-V2500-3IA), Chapter/Section 71-71-42 and 71-71-49 will be revised.

(2) V2500 Engine Manual (E-V2500-3IA), 72-00-60, Removal-01 and Installation-04 will be revised.

(3) V2500 Manintenance Manual (M-V2500-3IA) 71-71-42 Removal/Installation will be revised.

(4) V2500 Component Maintenance Manual (CMM-THD-V2500-3IA, 71-71-42 and 71-71-49 Cleaning, Inspection/Check will be revised.



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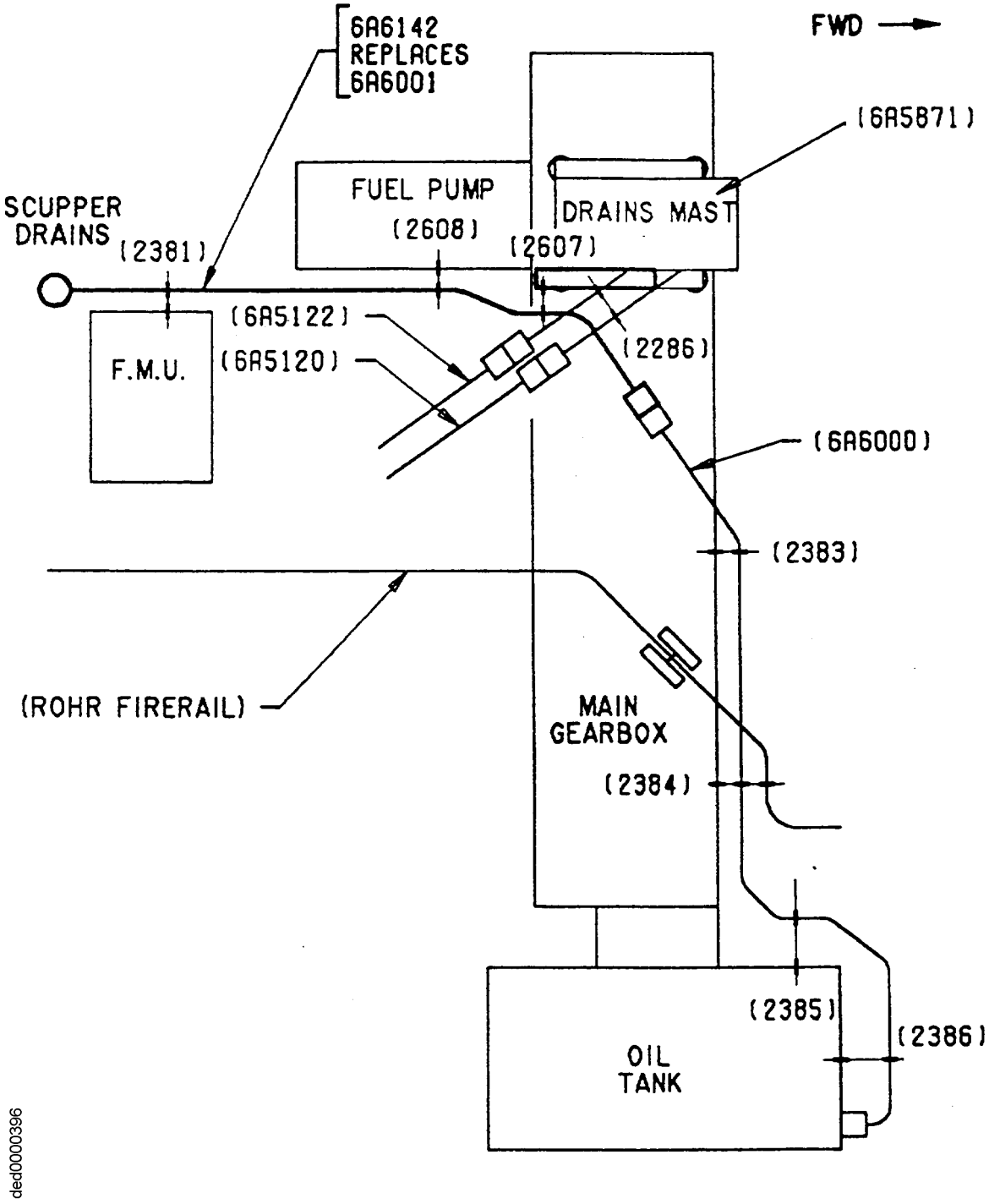
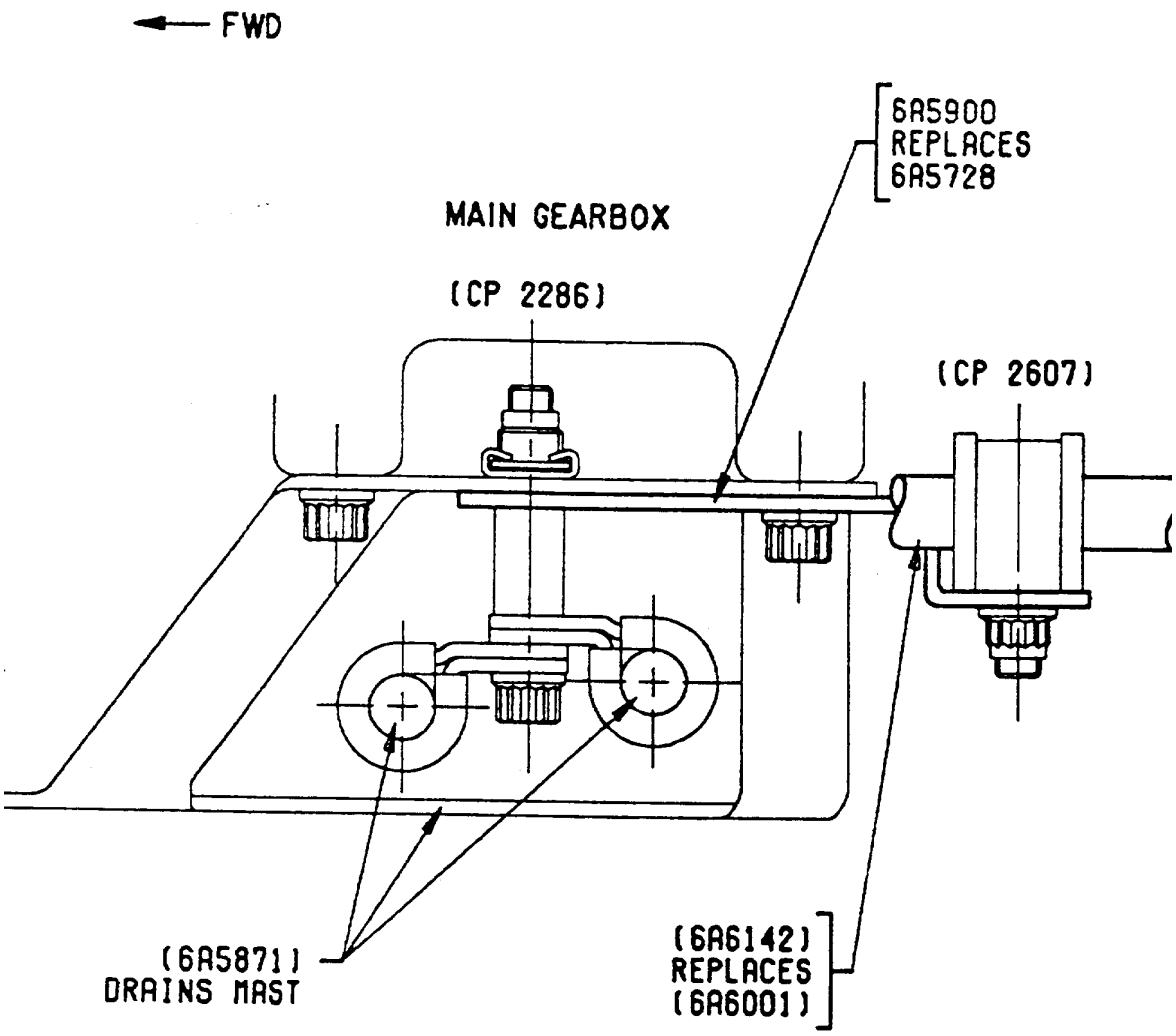
Location of Tube assembly and support bracket
fig.1



Schematic view of scupper drains tubes - Before and after alteration
fig.2



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View at drains mast - Before and after alteration
fig.3

2. Accomplishment Instructions

A. Rework Instructions

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

B. Assembly Instructions

(1) Find the clipping points CP2381, CP2608 and CP2607. Refer to Figures 1 and 2.

(2) Disassemble the clipping points sufficiently to allow removal of 6A6001 tube.

(3) Remove and discard the lockwire, then disconnect and remove 6A6001 tube from 6A6000 tube.

(4) Disassemble clipping point CP2286 to allow removal of 6A5728 bracket. Refer to Figure 3.

(5) Remove the drains mast retaining bolt (1 off) and remove 6A5728 bracket from the drains mast.

(6) Install the new 6A5900 bracket to the drains mast location using the retaining bolt previously removed at step (5). Refer to Figure 3.

(7) Install clipping point CP2286 using existing parts and torque the bolt to 36 to 45 lbfin (4 to 5 Nm).

(8) Torque the drains mast retaining bolt to 85 to 105 lbfin (10 to 12 Nm).

(9) Install the new 6A6142 tube, connect to 6A6000 tube and torque to 230 to 248 lbfin (26 to 28 Nm). Refer to Figure 2.

(10) Safety the new 6A6142 tube connector with CoMat 02-126 lockwire.

(11) Install clipping points CP2381, CP2608 and CP2607.

(12) Torque the bolts at clipping points CP2381, CP2608 and CP2607 to 36 to 45 lbfin (4 to 5 Nm).

C. Recording Instructions

(1) A record of accomplishment is necessary.

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
6A5900 (71-71-42)	1		Bracket, clipping CP2607	6A5728 (02-110)	(A) (B) (S1)
6A6142 (71-71-49)	1		Tube A/O - Oil disconnect to overboard	6A6001 (07-100)	(A) (B) (S1)

C. Instructions/Disposition Code Statements:

(A) New parts are currently available

(B) Old parts are no longer available

(S1) New parts may be installed in place of old parts but not vice versa

NOTE: The estimated 1994 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.