



ENGINE - POWER PLANT - REVISED CLIPPING TO PROVIDE INCREASED CLEARANCE BETWEEN OIL  
QUANTITY TRANSMITTER AND EEC HARNESS - CATEGORY CODE 6 - MOD.ENG-71-0118

1. Planning Information

A. Effectivity

- (1) Aircraft: (a) Airbus A320  
(b) Airbus A321
- (2) Engine: (a) V2500-A1 Engines subsequent to Serial No.V0179 and  
prior to Serial No.V0366  
(b) V2500-A1 Engines prior to Serial No.V0180 that  
incorporate Service Bulletin V2500-Eng-71-0110.  
(c) V2527-A5 Engines prior to Serial No.V10036.  
(d) V2530-A5 Engines prior to Serial No.V10036.

B. Concurrent Requirements

None

C. Reason

(1) Condition

See 'Background'

(2) Background

It has been reported that there is insufficient clearance between the oil quantity transmitter electrical connector backshell and the adjacent harness looms.

(3) Objective

To provide additional clearance and avoid potential damage to harness cables.

(4) Substantiation

A successful trial installation of the new configuration was conducted on a mock-up engine.

(5) Effect of Bulletin on Workshop Procedures:

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

**(6) Supplemental Information**

- (a) The Removal/Installation will be revised to add new configuration of this Service Bulletin.
- (b) The Cleaning and Inspection/Check will be revised to add new configuration of this Service Bulletin.

**D. Description**

The EEC, general services and ignition supply harness bundle which was clipped from an oil tube lug at Clip Point 1106 is now clipped to a new bracket at Clip Point 1189. The bracket is secured by 2 of the oil quantity transmitter attaching bolts.

**E. Approval**

The part number changes nad/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 the sub-assembly (i.e. modules, accessories, components, build groups) is disassembled sufficiently to afford access to the affected parts and to all affected spare parts.

**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

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- (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 | + 0.1lb (+0,045kg)  |
| (2) Moment arm    | 24.000in (610mm) forward of datum                             |
| (3) Datum         | Engine front mount centerline (Power Plant Station (PPS) 100) |

K. Electrical Load Data

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

L. References

- (1) Internal References No.

EC93VR043

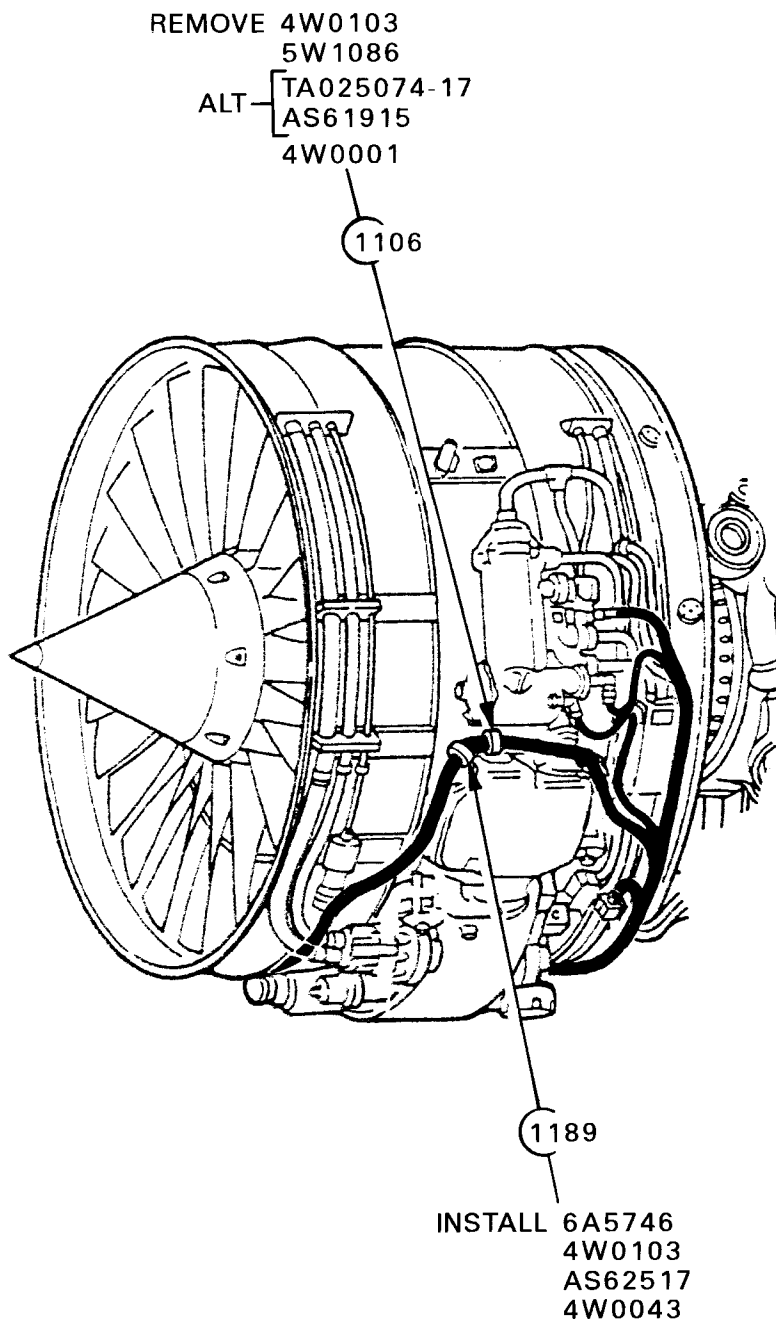
- (2) Other References

Service Bulletin V2500-ENG-71-0110, 'Engine - Provide rerouted oil tubes for the ACOC and the oil tank assembly'.

M. Other Publications Affected

- (1) V2500 Engine Illustrated Parts Catalog (S-V2500-1IA, S-V2500-2IA), Chapter/Section 71-51-41 and 79-31-15.
- (2) V2500 Engine Manual (E-V2500-1IA), 72-00-60, Removal-02 Config-1 and Config-2, Installation-03 Config-1 and Config-2.
- (3) V2500 Component Maintenance Manual (CMM-MECH-V2500-1IA), 79-31-15, Cleaning and Inspection/Check.

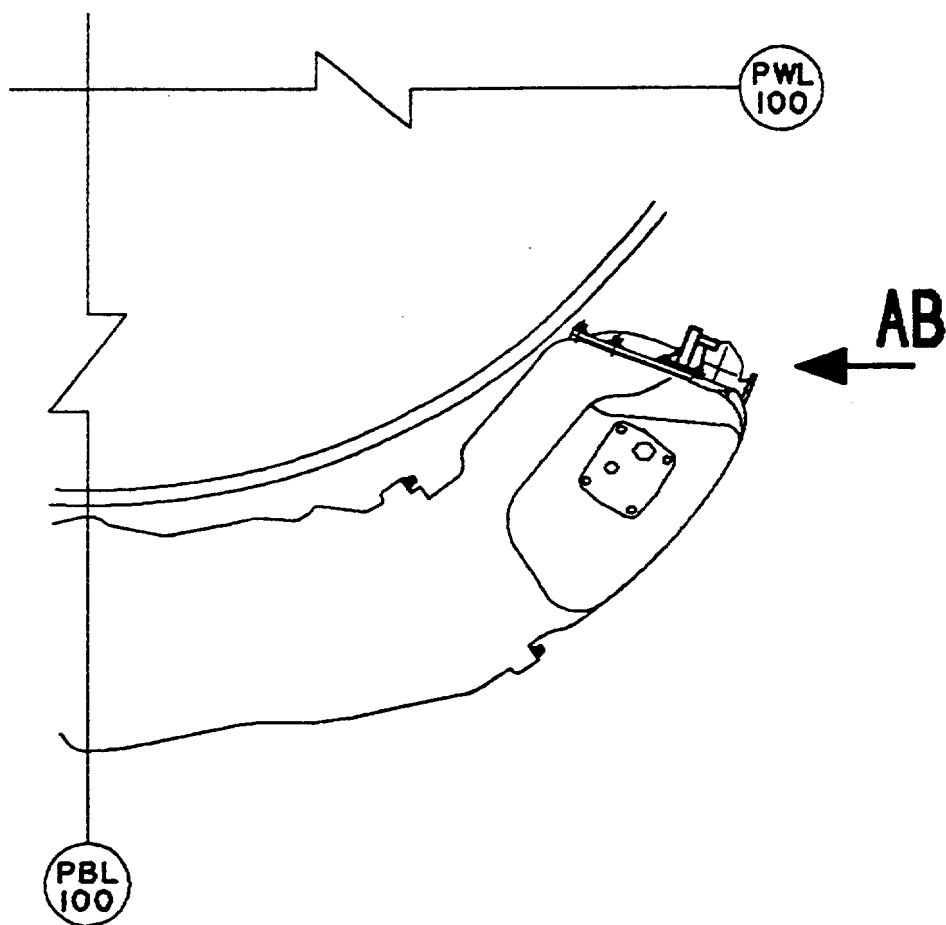
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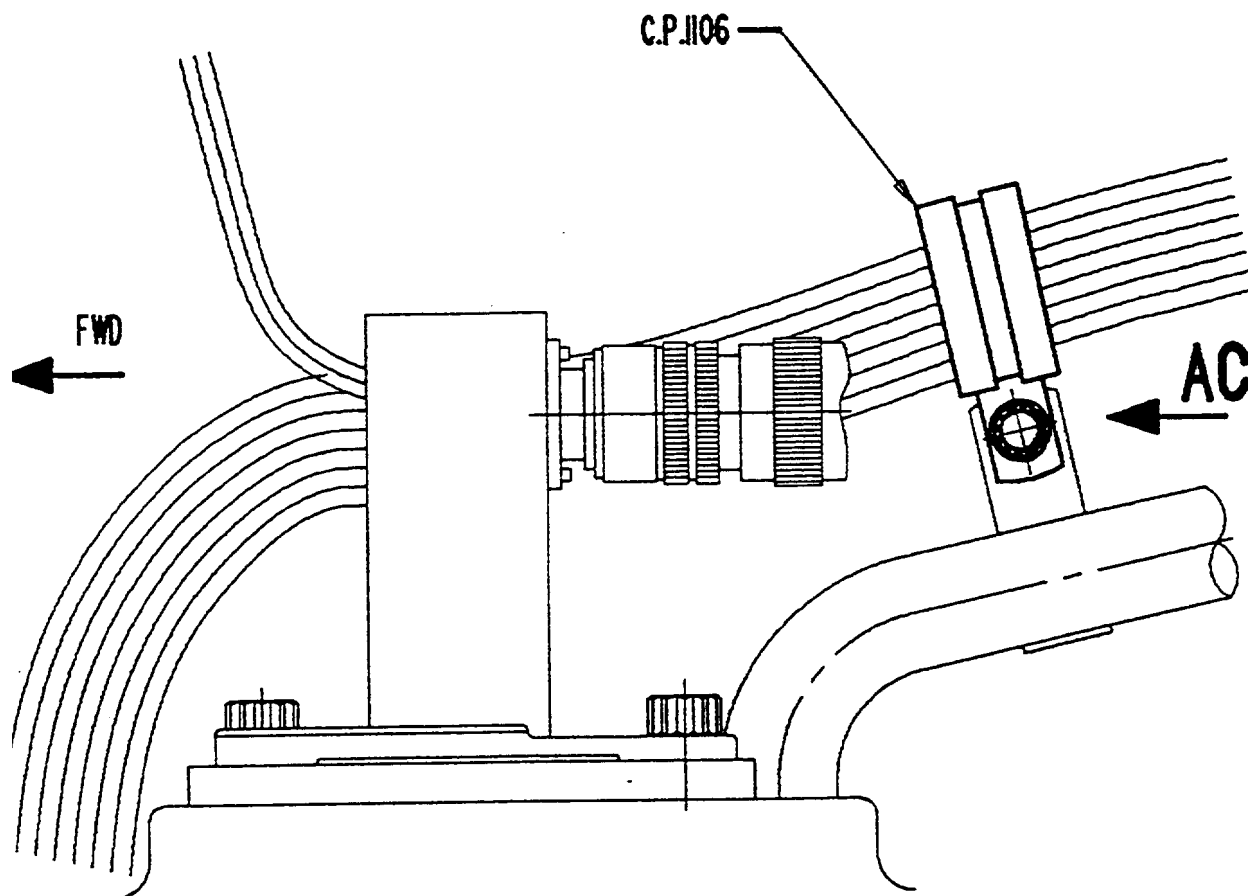
. Location of clip point 1106 and new clip point 1189  
Fig 1

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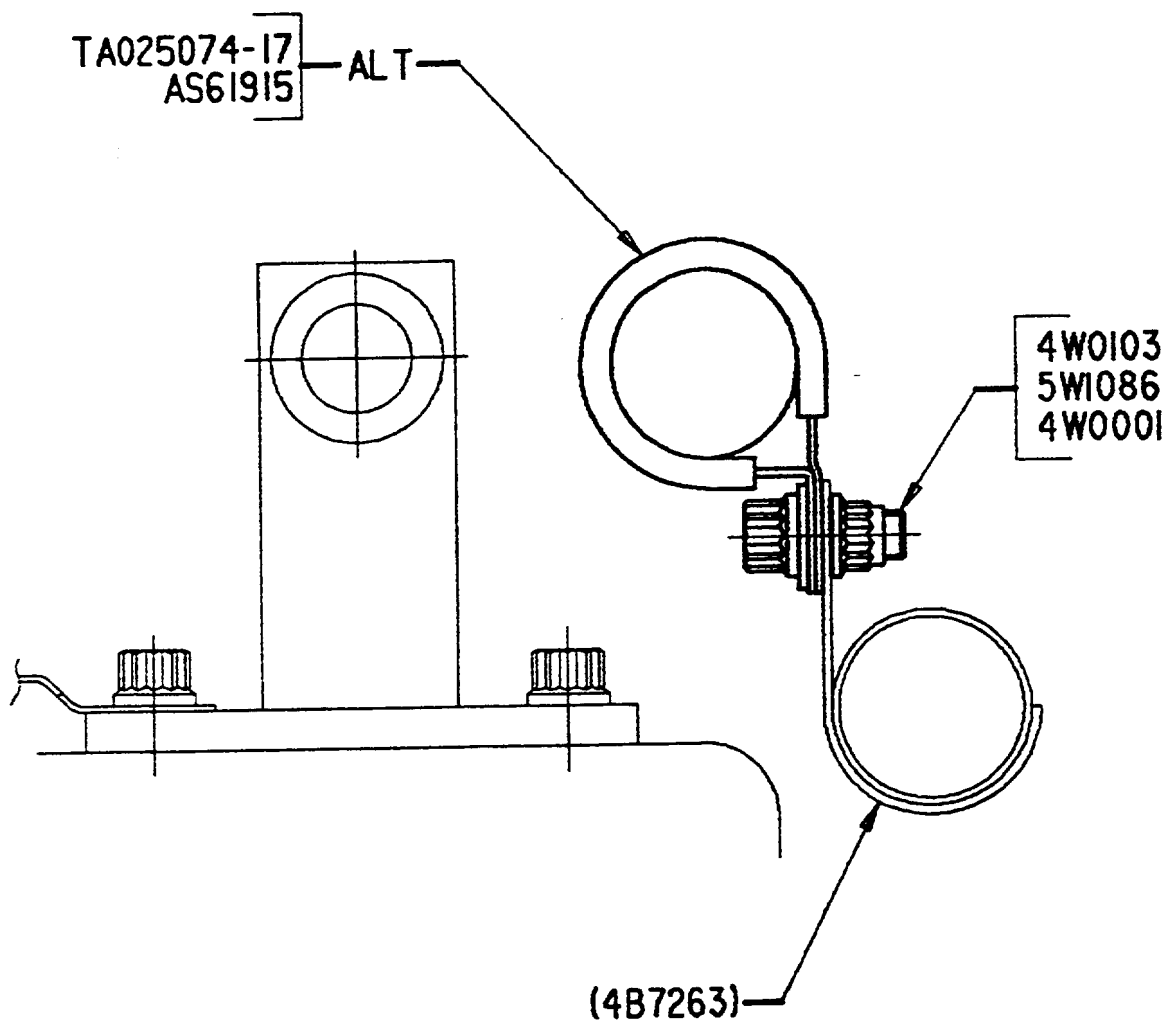
. View looking rearwards on oil quantity transmitter  
Fig 2

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View on arrow AB showing harness location - Before alteration  
Fig.3

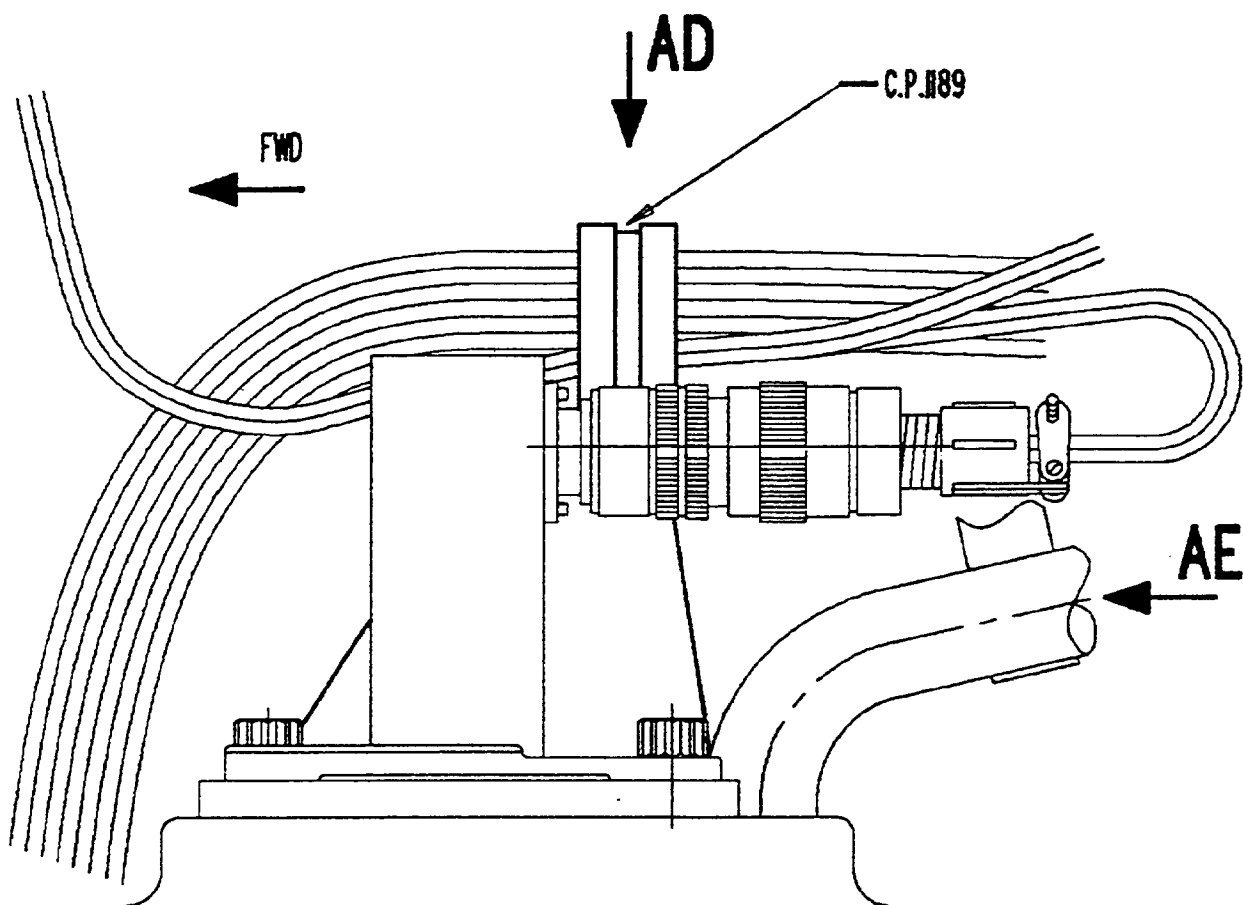
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View on arrow AC - Before alteration  
Fig.4

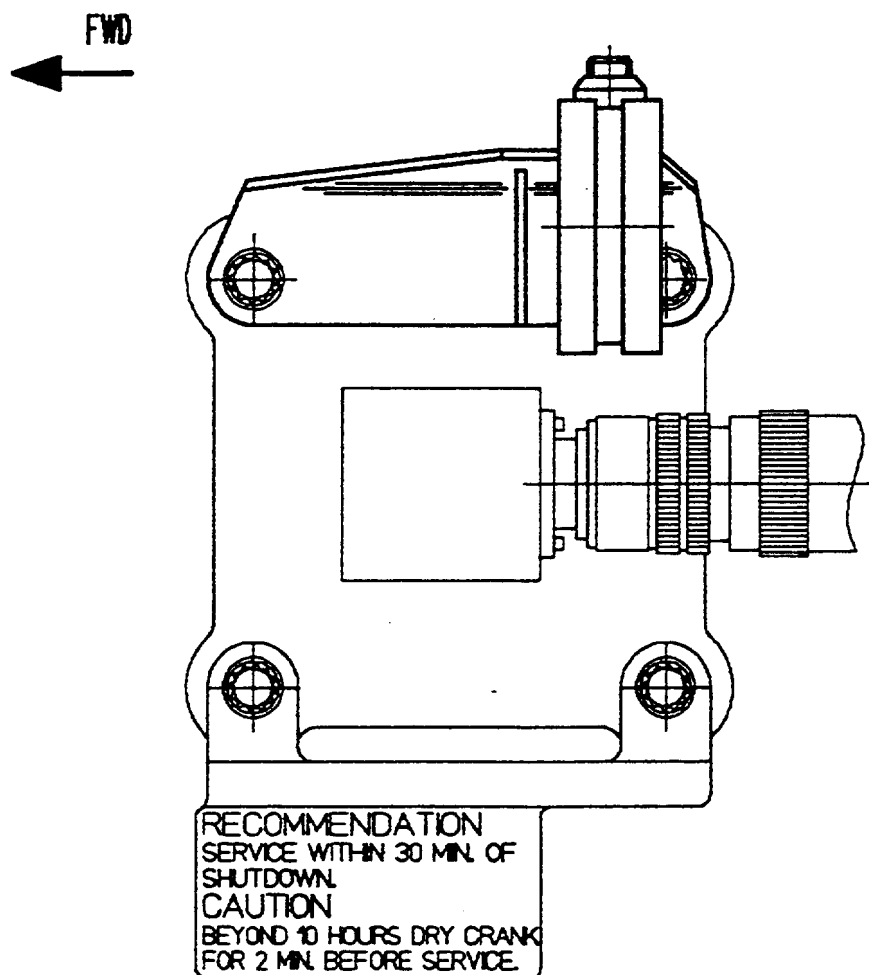
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View on arrow AB showing harness location - After alteration  
Fig.5

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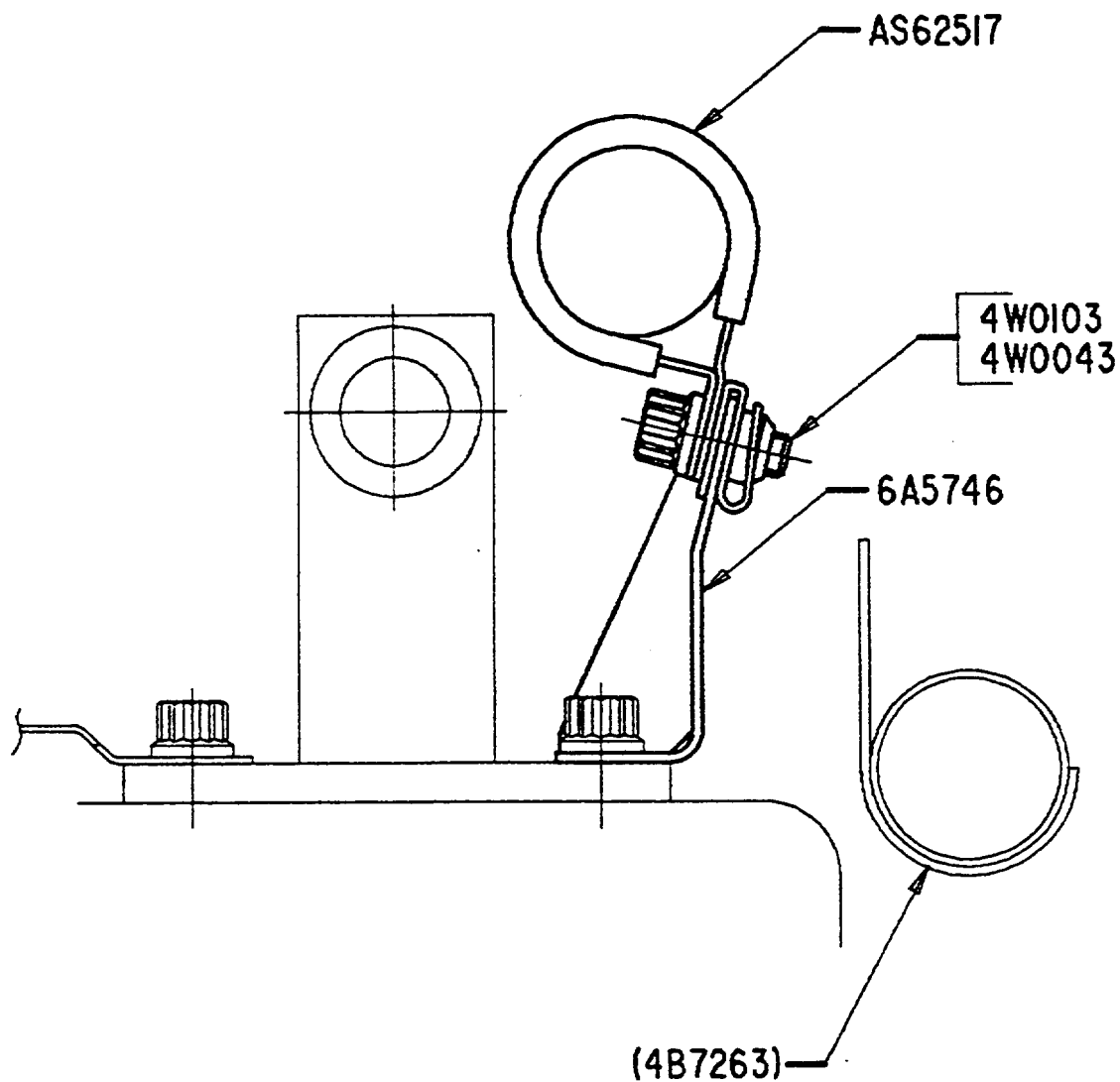




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View on arrow AD showing location of new bracket - After alteration  
Fig.6

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View on arrow AE - After alteration  
Fig.7

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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) Remove the bolt, washer, clip and nut from clipping point 1106. Refer to Figures 1, 3 and 4.
- (2) Remove the two oil quantity transmitter securing bolts adjacent to the EEC, general services and ignition supply harness bundle.
- (3) Install the new 6A5746 bracket onto the oil quantity transmitter using the two bolts removed at step (2). Refer to figures 5 and 6.
- (4) Torque the bolts to 100 lbfin (11,3 Nm).
- (5) Attach the EEC, general services and ignition supply harness bundle to the 6A5476 bracket at clipping point 1189 using the 4W0103 bolt, AS62517 clip and 4W0043 clip nut. Refer to Figures 5 and 7.
- (6) Torque the bolt at clipping point 1189 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
4W0103 (71-51-41)	1		Bolt, bi-hex ) ) )	- (01-222)	(A)(S1)
AS62517 (71-51-41)	1		Clip ) CP 1189 ) )	- (01-225)	(A)(S1)
4W0043 (71-51-41)	1		Nut, clip ) )	- (01-229)	(A)(S1)
- (71-51-41)	1		Bolt, bi-hex ) ) )	4W0103 (02-437)	(B)(S1)
- (71-51-41)	1		Washer ) ) )	5W1086 (02-438)	(B)(S1)
- (71-51-41)	1		Clip ) CP 1106 ) )	TA025074-17 (02-440)	(B)(S1)
- (71-51-41)	Ref		Clip ) ) )	AS61915 (02-440)	(B)(S1)
- (71-51-41)	1		Nut, bi-hex ) )	4W0001 (02-444)	(B)(S1)
6A5746 (79-31-15)	1		Bracket assy, CP 1189 support ) )	- (01-015)	(A)(S1)

C. Instructions/Disposition Code Statements:

(A) New parts are currently available.

(B) Old parts can be used up in other applications.

(S1) A set of new parts may be used in place of a set of old parts but not vice-versa.

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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.

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