V2500 International Aero Engines
SERVICE BULLETIN

June 26/98

Subject: Transmittal of Revision 1 to Service Bulletin No. V2500-ENG-71-0119

Service Bulletin Revision History:

Event	Date
Basic Issue	Aug.3/94
Revision 1	June 26/98

Reason for Issuance of Revision:

Changes to Incorporation Serial Numbers

Effect on Past Compliance:

None.

List of Effective Pages:

Bulletin Page No.	Rev. No.	Effective Date
1 and 2	1	June 26/98
3 to 16	Basic Issue	Aug.3/94

V2500 International Aero Engines
SERVICE BULLETIN

ENGINE - POWER PLANT - INTRODUCE REVISED EEC HARNESS CLIPPING TO PROVIDE SUFFICIENT CLEARANCE BETWEEN HARNESS AND FLANGE FD IN AREA ADJACENT TO EEC

MODEL APPLICATION

V2500-A1
V2527-A5
V2530-A5

BULLETIN INDEX LOCATOR

71-00-00
73-00-00

Compliance Category Code

6

Internal Reference No.

EC93VR044

V2500 International Aero Engines

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ENGINE - POWER PLANT - INTRODUCE REVISED EEC HARNESS CLIPPING TO PROVIDE SUFFICIENT CLEARANCE BETWEEN HARNESS AND FLANGE FD IN AREA ADJACENT TO EEC

1. Planning Information

A. Effectivity

(1) Aircraft:

(a) Airbus A320

(b) Airbus A321

(2) Engine:

R (a) V2500-A1 Engines prior to Serial No.V0362

(b) V2527-A5 Engines prior to Serial No.V10036

(c) V2530-A5 Engines prior to Serial No.V10036

B. Concurrent Requirements

None

C. Reason

(1) Condition

Limited clearance between the EEC harness and the fan case flange at the rear of the EEC unit.

(2) Background

A possible interference between the EEC harness and the fan case flange to the rear of the EEC unit due to insufficient clearance was highlighted during assembly.

(3) Objective

Incorporation of this Service Bulletin is designed to provide sufficient clearance between the flange and harness.

(4) Substantiation

An assembly check of the re-run harness and altered clipping on a mock-up engine has proved to be successful.

(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:

(1) The EEC harness is re-clipped between clip points 0796 and 1075.

(2) Clip points 0783 and 1076 are altered, clip point 1096 is deleted and clip point 1190 is added.

(3) The brackets at clip points 0783, 1076 and 1096 are deleted and three new brackets are added at clip points 0783, 1076 and 1190.

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 6

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.

(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	Minus 0.1lb (0,045kg)
(2)	Moment arm	7.5in (190mm) 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) Service Bulletin V2500-ENG-70-0158 (Introduce Various Revised Material External Brackets).

(2) Service Bulletin V2500-ENG-71-0060 (Provide an EEC Harness Support Bracket at Flange FD).

(3) Service Bulletin V2500-ENG-71-0067 (Incorporate Revised Cushion Type Harness Clipping).

M. Other Publications Affected

(1) V2500 Engine Illustrated Parts Catalog (S-V2500-1IA), Chapter/Section 71-51-41 and 73-22-34.

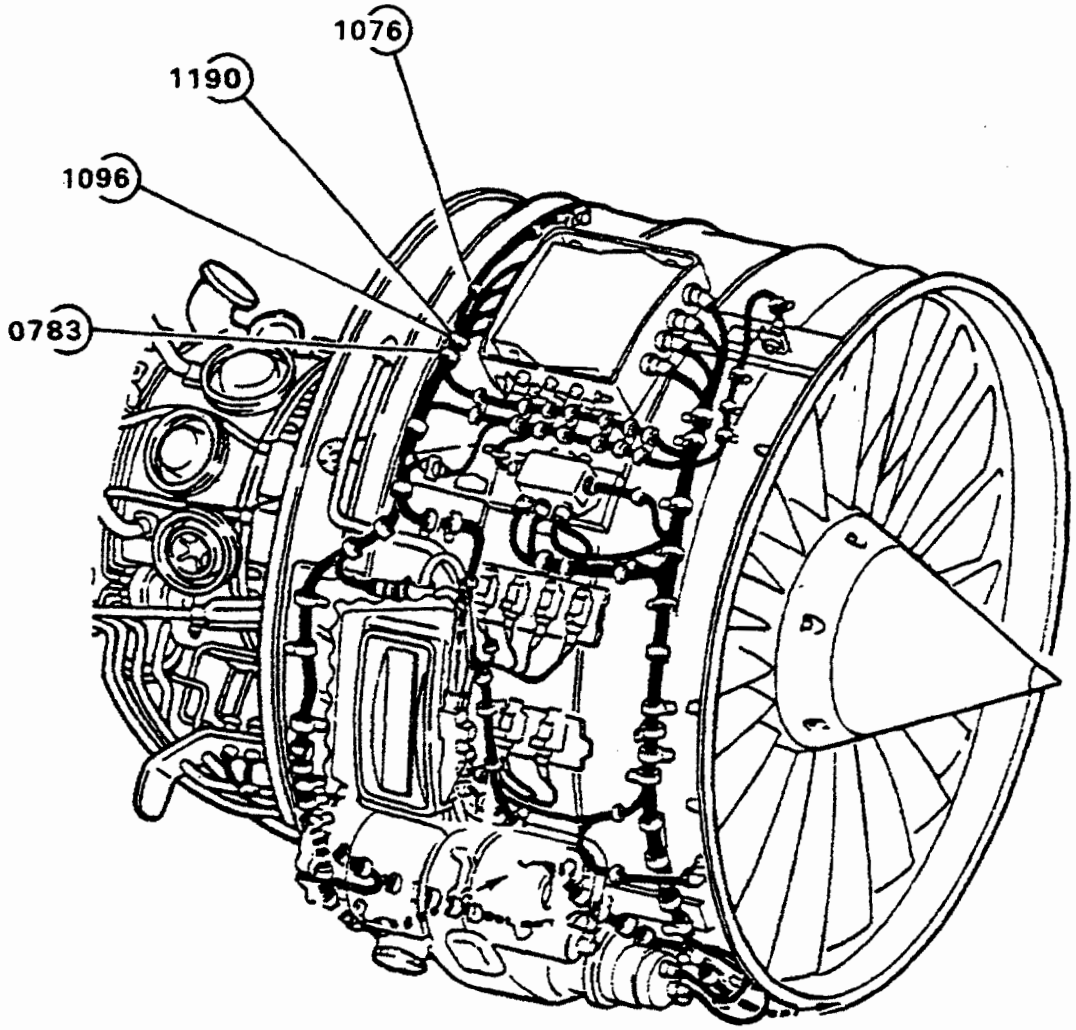
(2) V2500 Engine Illustrated Parts Catalog (S-V2500-2IA), Chapter/Section 71-51-41 and 73-22-34.

(3) V2500 Engine Manual (E-V2500-1IA), 72-00-32, Removal-02 Config-1 and Config-2, Removal-05 Config-1 and Config-2, Installation-01 Config-1 and Config-2, Installation-04 Config-1 and Config-2.

(4) V2500 Component Maintenance Manual (CMM-MECH-V2500-1IA), 71-51-41, Cleaning-00 and -01, Inspection/Check-00 and -01.

(5) V2500 Component Maintenance Manual (CMM-MECH-V2500-1IA), 73-22-34, Cleaning-00 and -03, Inspection/Check-00 and -02.

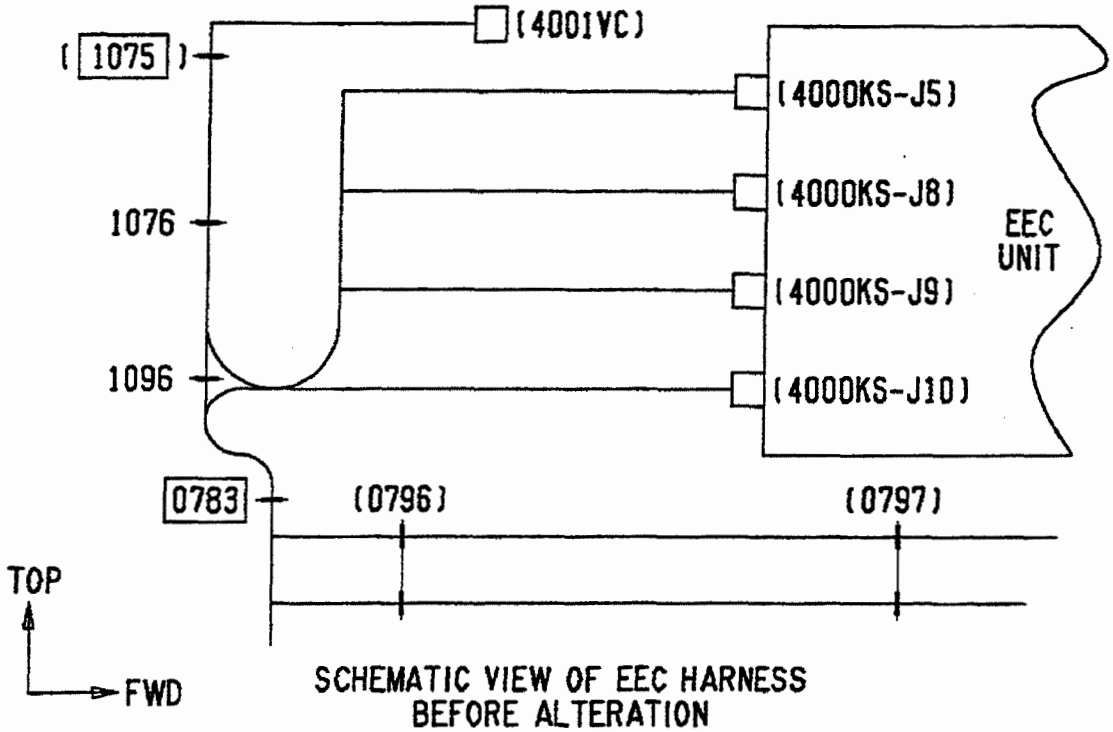
(6) A320/A321 Aircraft Maintenance Manual, 71-51-42, Removal/Installation.



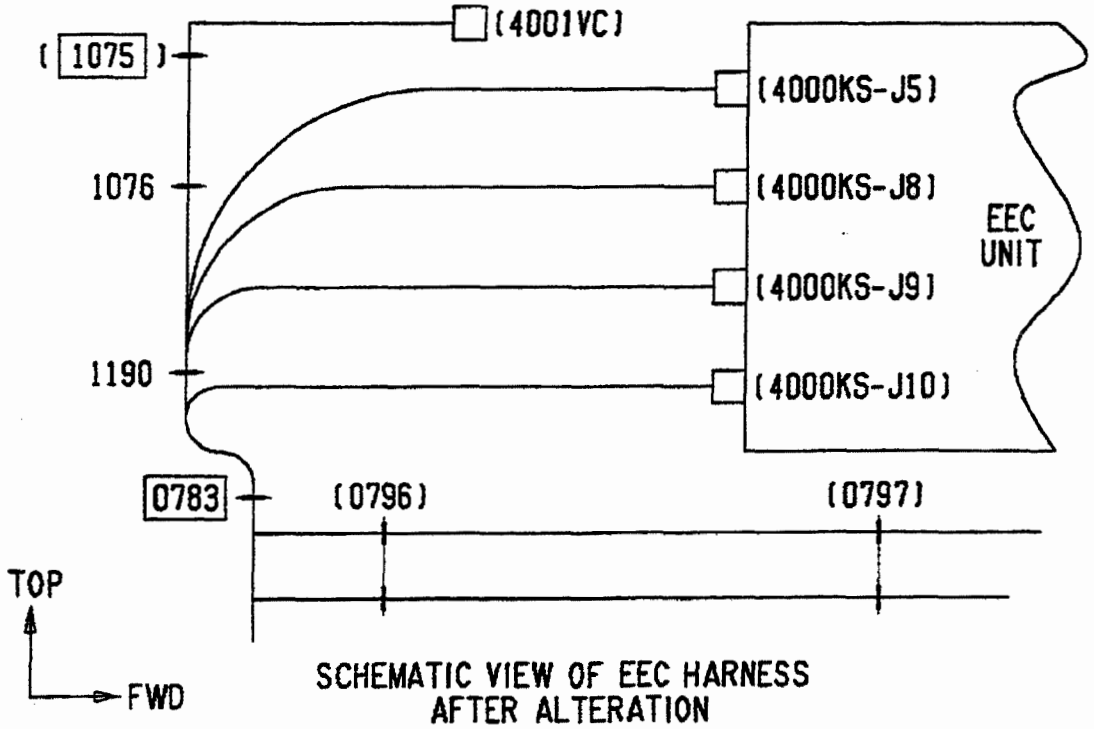
E3124

Location of clipping points 0783, 1076, 1096 and 1190

Figure 1



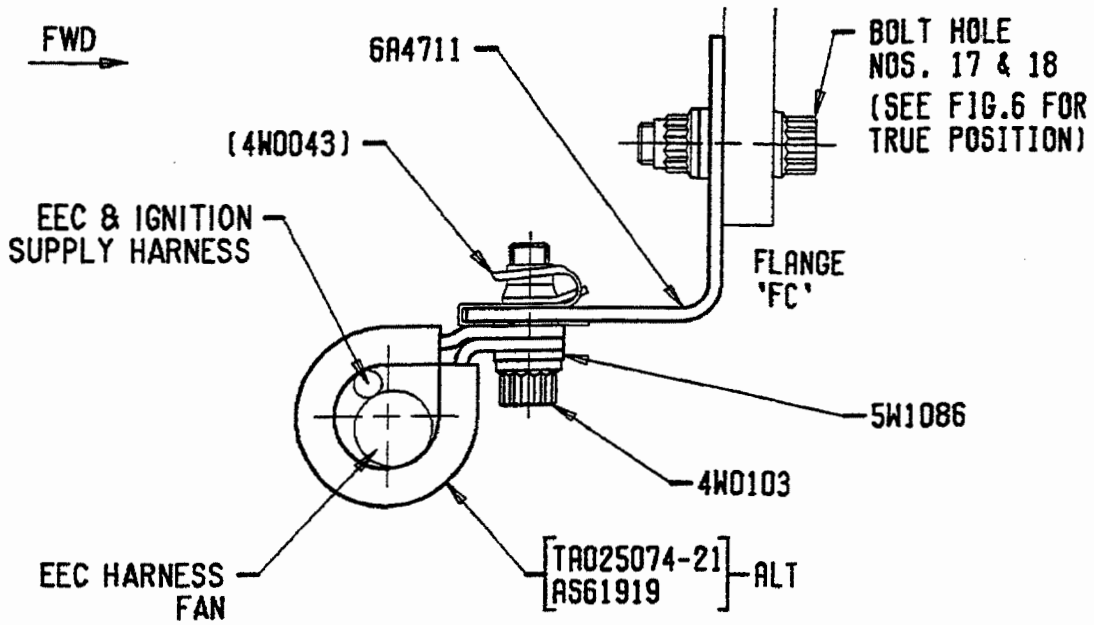
SCHEMATIC VIEW OF EEC HARNESS
BEFORE ALTERATION



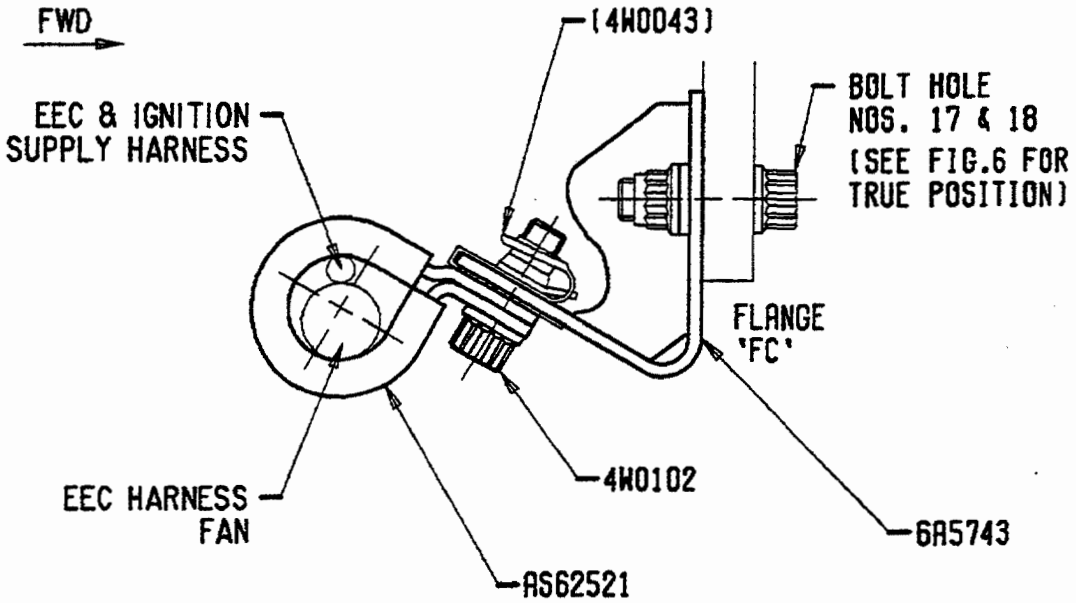
SCHEMATIC VIEW OF EEC HARNESS
AFTER ALTERATION

Schematic view of EEC harness
- Before and after alteration

Figure 2



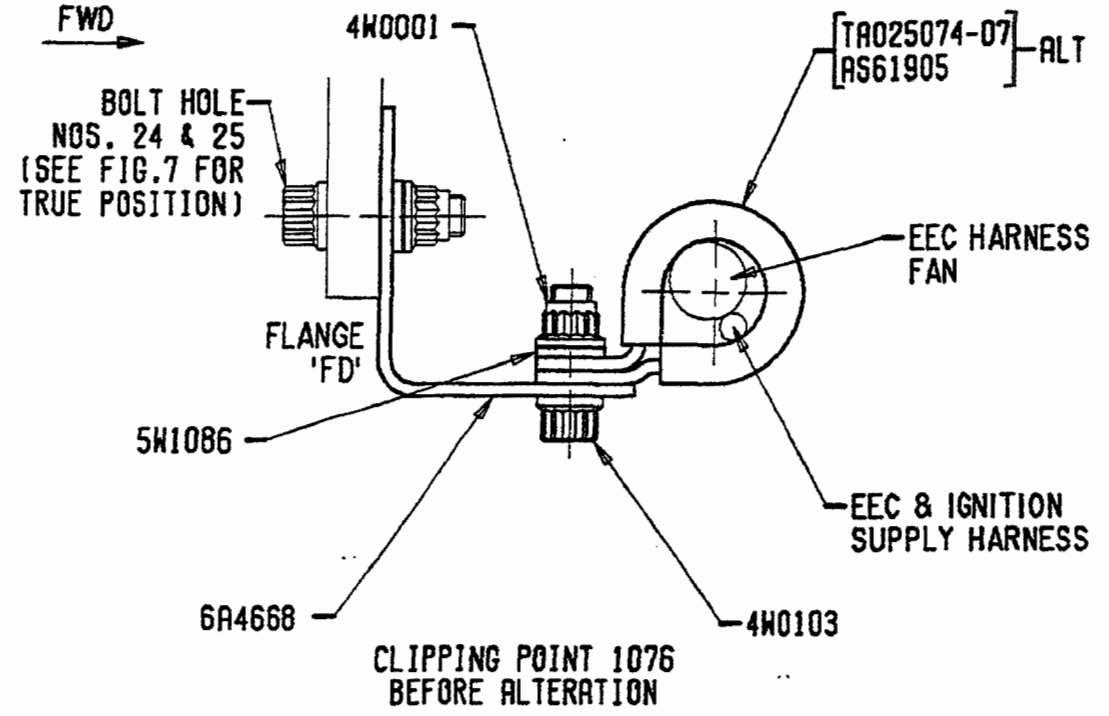
CLIPPING POINT 0783
BEFORE ALTERATION



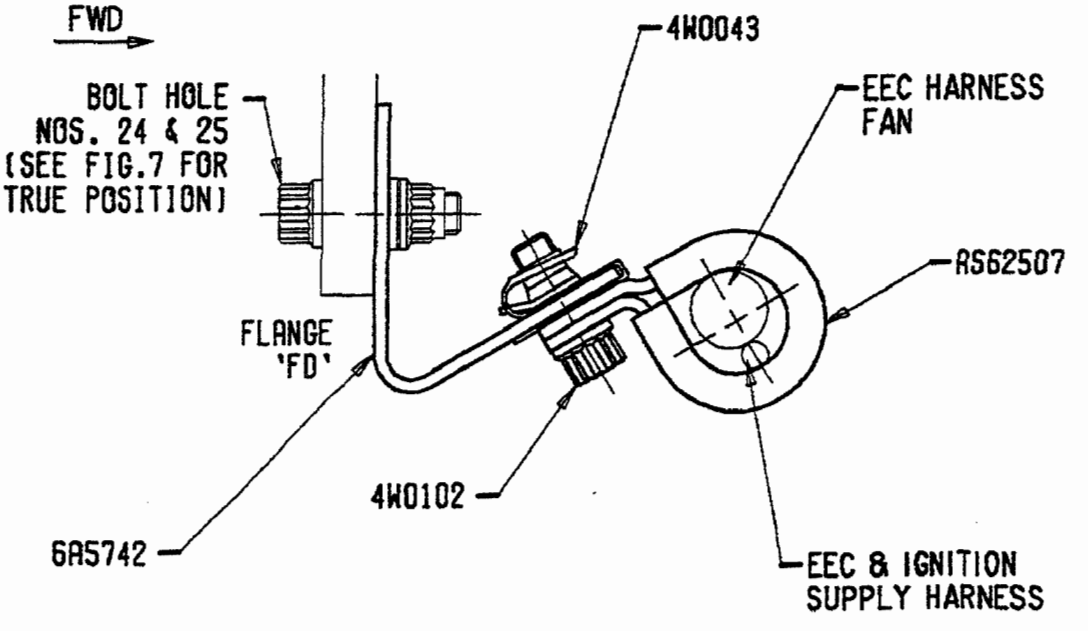
CLIPPING POINT 0783
AFTER ALTERATION

Clipping point 0783
- Before and after alteration

Figure 3



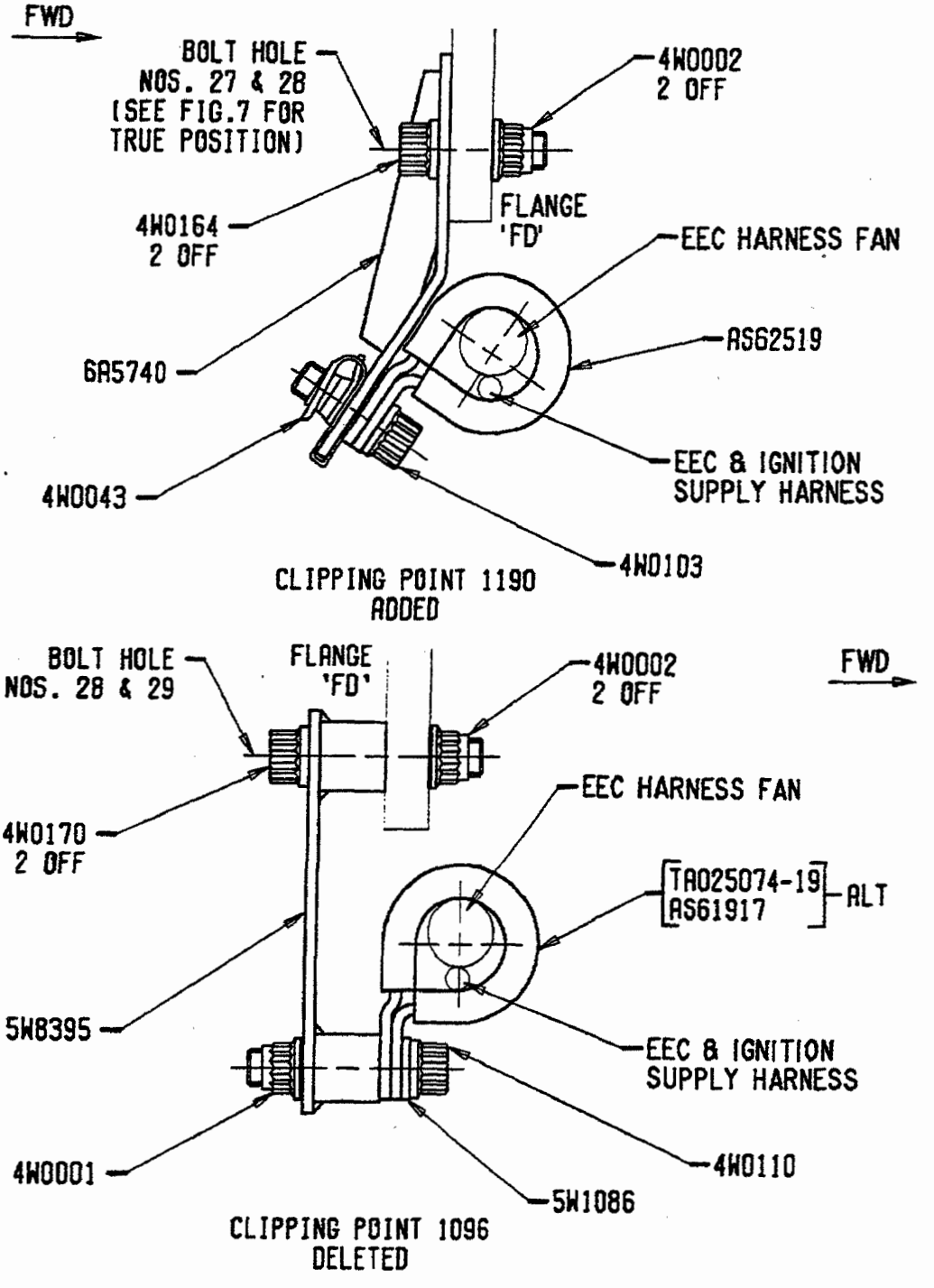
CLIPPING POINT 1076
BEFORE ALTERATION



CLIPPING POINT 1076
AFTER ALTERATION

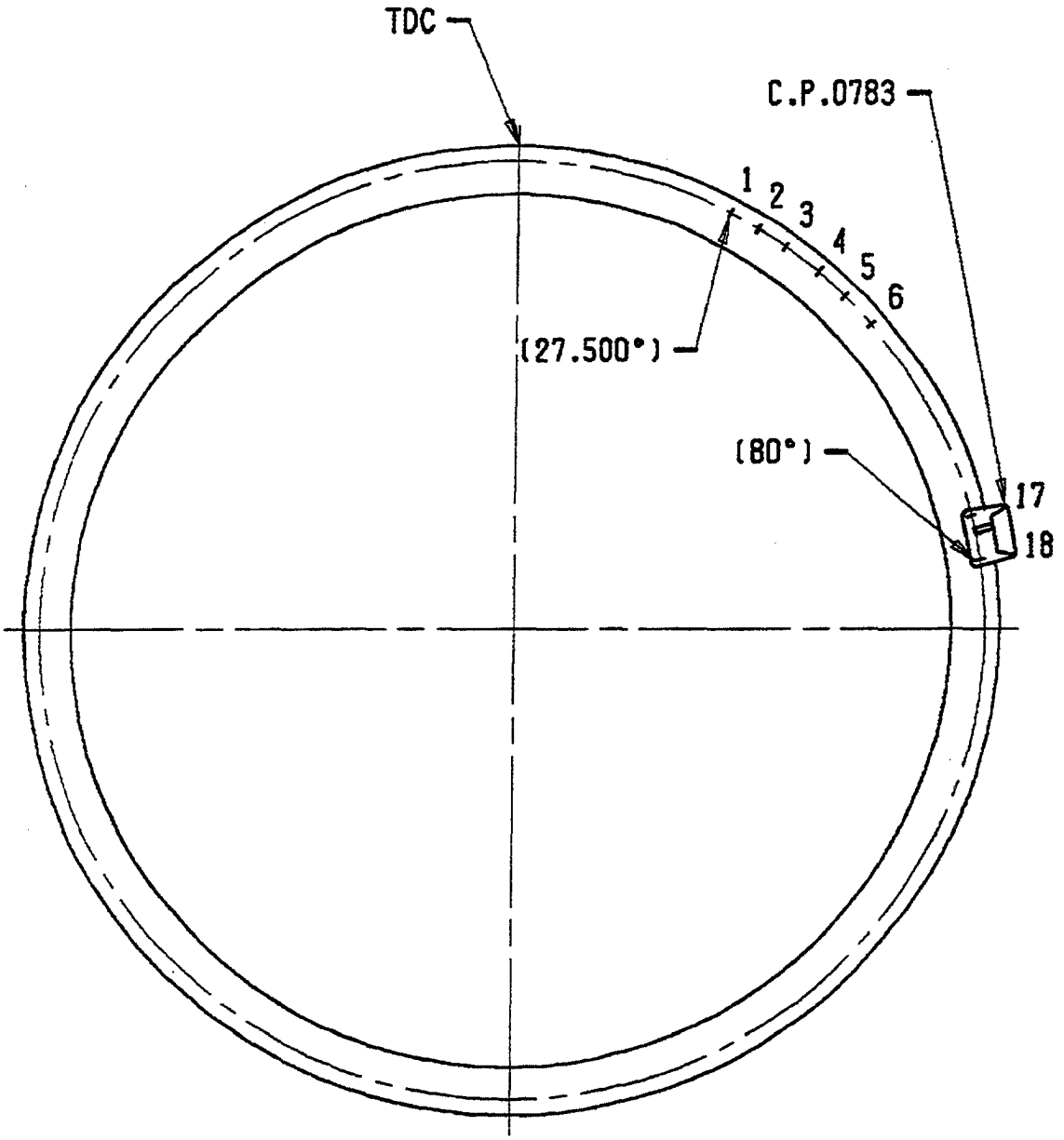
Clipping point 1076
- Before and after alteration

Figure 4



New clipping point 1190 and deleted clipping point 1096

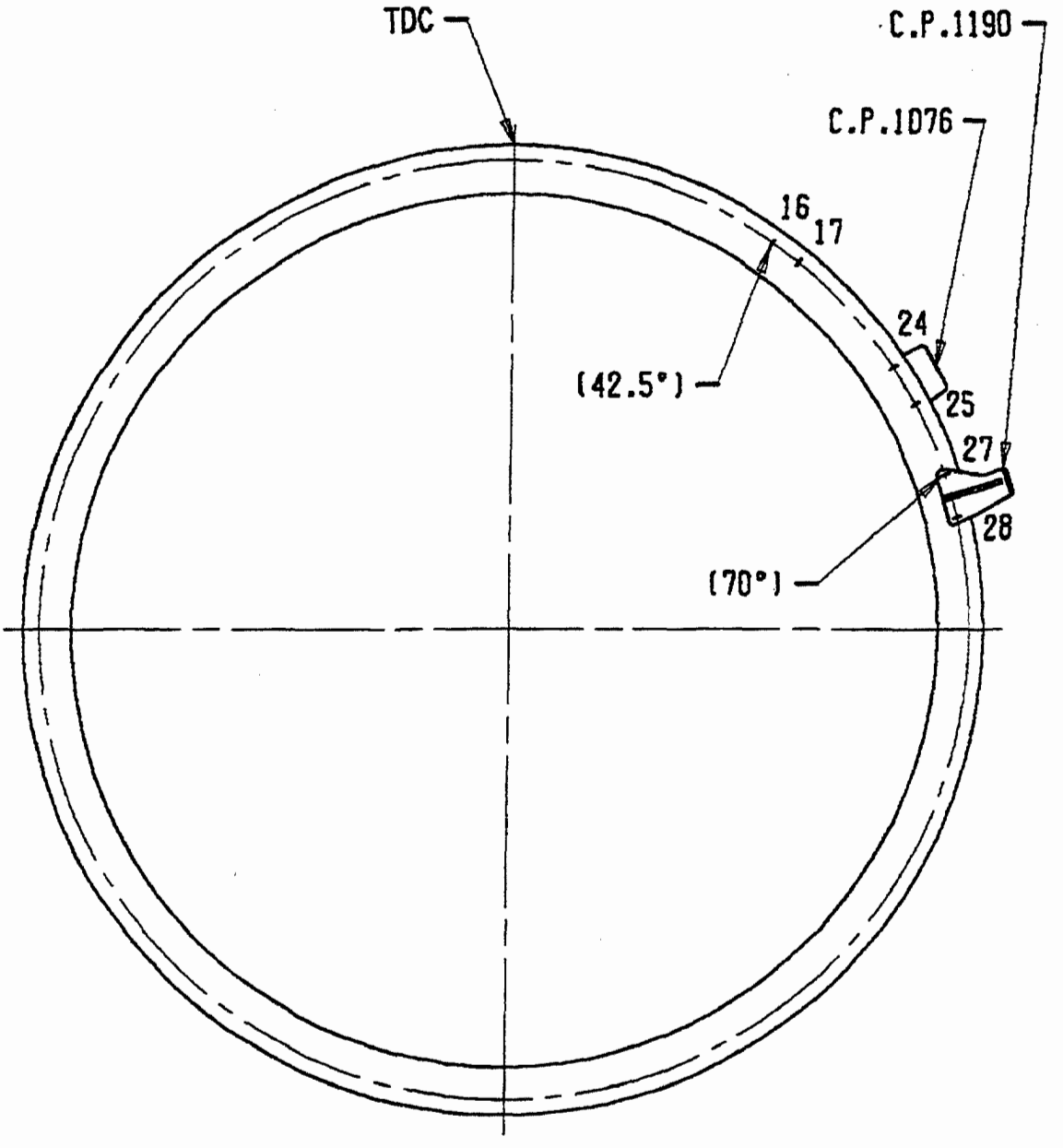
Figure 5



ANGULAR DIMENSIONS IN DEGREES
AND DECIMAL PARTS OF A DEGREE

Flange FC (looking forward)

Figure 6



ANGULAR DIMENSIONS IN DEGREES
AND DECIMAL PARTS OF A DEGREE

Flange FD (looking forward)

Figure 7

2. Accomplishment Instructions

A. Rework Instructions

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

B. Assembly Instructions

(1) Install the new 6A5743 bracket to the fan case flange 'FC' at bolt holes 17 and 18 by use of approved procedures, Engine Manual, TASK 72-00-32-420-001-A00 or TASK 72-00-32-420-001-B00. Refer to Figure 3 and Figure 6.

(2) Install the new 6A5742 bracket to the fan case flange 'FD' at bolt holes 24 and 25 by use of approved procedures, Engine Manual, TASK 72-00-32-420-001-A00 or TASK 72-00-32-420-001-B00. Refer to Figure 4 and Figure 7.

(3) Install the new 6A5740 bracket to the fan case flange 'FD' at bolt holes 27 and 28 using the 4W0164 bolts (2 off) and 4W0002 nuts (2 off). Torque the nuts to 85 to 105 lbfin (10 to 12 Nm). Refer to Figure 5 and Figure 7.

(4) Install the ignition supply harness and EEC harness to the 6A5743 bracket at clipping point 0783 using the new 4W0102 bolt, AS62521 clip and existing 4W0043 clipnut. Discard the existing 5W1086 washer. Torque the bolt to 36 to 45 lbfin (4 to 5 Nm). Refer to Figure 2 and Figure 3.

(5) Install the ignition supply harness and EEC harness to the 6A5740 bracket at new clipping point 1190 using the 4W0103 bolt, AS62519 clip and 4W0043 clipnut. Torque the bolt to 36 to 45 lbfin (4 to 5 Nm). Refer to Figure 2 and Figure 5.

(6) Install the ignition supply harness and EEC harness to the 6A5742 bracket at clipping point 1076 using the new 4W0102 bolt, AS62507 clip and 4W0043 clipnut. Discard the existing 5W1086 washer. Torque the bolt to 36 to 45 lbfin (4 to 5 Nm). Refer to Figure 2 and Figure 4.

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
4W0102 (71-51-41)	1		Bolt, bi-hex		4W0103 (01-822)	(A)(1D)(S1)
- (71-51-41)	1		Washer		5W1086 (01-823)	(1D)
AS62521 (71-51-41)	1		Clamp, loop	CP 0783	TA025074-21 (01-825)	(A)(1D)(S1) (J)
- (71-51-41)	Ref		Clamp, loop		AS61919 (01-825)	(1D)(J)
4W0102 (71-51-41)	1		Bolt, bi-hex		4W0103 (02-285)	(A)(1D)(S1)
- (71-51-41)	1		Washer		5W1086 (02-286)	(1D)
AS62507 (71-51-41)	1		Clamp, loop	CP 1076	TA025074-07 (02-288)	(A)(1D)(S1) (K)
- (71-51-41)	Ref		Clamp, loop		AS61905 (02-288)	(1D)(K)
4W0043 (71-51-41)	1		Nut, clip		4W0001 (02-292)	(A)(1D)(S1)
- (71-51-41)	1		Bolt, bi-hex		4W0110 (02-421)	(1D)
- (71-51-41)	1		Washer		5W1086 (02-422)	(1D)
- (71-51-41)	1		Clamp, loop	CP 1096	TA025074-19 (02-424)	(1D)(L)

New Part No. (ATA No.)	Qty	Est'd Unit Price ($)	Keyword		Old Part No. (IPC.No.)	Instructions Disposition
- (71-51-41)	Ref		Clamp, loop		AS61917 (02-424)	(1D)(L)
- (71-51-41)	1		Nut, bi-hex		4W0001 (02-428)	(1D)
4W0103 (71-51-41)	1		Bolt, bi-hex		- (02-755)	(A)(C)
AS62519 (71-51-41)	1		Clamp, loop	CP 1190	- (02-758)	(A)(C)
4W0043 (71-51-41)	1		Nut, clip		- (02-762)	(A)(C)
6A5740 (71-51-41)	1		Bracket assy, support CP1190		- (05-440)	(A)(C)
4W0164 (71-51-41)	2		Bolt, bi-hex		- (05-442)	(A)(C)
4W0002 (71-51-41)	2		Nut, bi-hex		- (05-444)	(A)(C)
- (71-51-41)	1		Bracket assy, support CP1096		5W8395 (05-750)	(B)
- (71-51-41)	2		Nut, bi-hex		4W0002 (05-751)	(1D)
- (71-51-41)	2		Bolt, bi-hex		4W0170 (05-754)	(1D)
- (71-51-41)	1		Bracket, support CP1076		6A4668 (05-990)	(2D)
- (71-51-41)	2		Nut, bi-hex		4W0002 (05-991)	(1D)(3D)(E)
- (71-51-41)	2		Bolt, bi-hex		4W0164 (05-994)	(1D)(3D)(F)
6A5742 (71-51-41)	1		Bracket, support CP1076		- (05-995)	(A)(C)

New Part No. (ATA No.)	Qty	Est'd Unit Price ($)	Keyword	Old Part No. (IPC No.)	Instructions Disposition
4W0002 (71-51-41)	2		Nut, bi-hex	- (05-997)	(A)(C)(G)
4W0164 (71-51-41)	2		Bolt, bi-hex	- (05-998)	(A)(C)(H)
6A5743 (73-22-34)	1		Bracket assy, support CP0783	6A4711 (01-520)	(A)(B)(S1)

C. Instructions/Disposition Code Statements:

(A) New part currently available

(B) Old part is no longer available

(C) Additional part

(1D) Old part can be used in other applications

(2D) Quantity of part number decreased from 2 to 1

(3D) Quantity of part number decreased from 4 to 2

(E) 2 off re-itemised (05-997)

(F) 2 off re-itemised (05-998)

(G) Re-itemised, was item (05-991)

(H) Re-itemised, was item (05-994)

(J) Alternatives

(K) Alternatives

(L) Alternatives

(S1) New part may be fitted in place of old part 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.