



## SERVICE BULLETIN

ENGINE INDICATING - ENGINE - INDICATING - ADD WASHERS AT CLIPPING POINTS CP6004 AND CP6009 - CATEGORY CODE 6 - MOD.ENG-77-0005

1. Planning InformationA. Effectivity

- (1) Aircraft: Airbus A320
- (2) Engine: V2500-A1 Engine before Serial No.V0122.

B. Reason

## (1) Condition

The clearance between the Exhaust Gas Thermocouple (EGT) Harness and the adjacent Stiffening Rib on the Turbine Exhaust Case may not be sufficient at the Clipping Points CP6004 and CP6009 located on Flange FT.

## (2) Background

An engineering review showed that the clearance between the EGT Harness and the adjacent Stiffening Rib on the Turbine Exhaust Case may not be sufficient. This could occur because of tolerances in location of the EGT Harness Loop clamps and the flange mount bolt holes. This condition was found at assembly of the EGT Harness to the Loop Clamp Bracket Assemblies.

## (3) Objective

To increase the clearance between the Exhaust Gas Thermocouple (EGT) Harness and the adjacent Stiffening Rib on the Turbine Exhaust Case.

## (4) Substantiation

Not necessary.

## (5) Effect of Bulletin on workshop procedures:

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

## (6) Supplemental Information:

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None

C. Description

- (1) This modification installs a Washer on the Loop Clamp Bracket Assembly bolt at each of the Flange FT locations to get the correct clearance between the EGT Harness and the Turbine Exhaust Case Stiffening Rib.

D. 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.

E. Compliance

Category Code 6.

Accomplish when the subassembly (i.e. modules, accessories, components, build groups) is disassembled sufficiently to afford access to the affected part and to all affected spare parts.

F. Manpower

Estimated Manhours to incorporate the full intent of this Bulletin:

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

G. Material Price and Availability

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

H. Tooling – Price and Availability

Special tools are not required.

I. Weight and Balance

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

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(3) Datum

Engine front mount centerline (Powerplant station P.P.S. (100)).

J. Electrical Load Data

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

K. References

(1) Internal Reference No.

89VA154

(2) Other References

V2500 Engine Manual

V2500 Standard Practices Manual

L. Other Publications Affected

(1) V2500 Engine Illustrated Parts Catalog, Chapter/Section 77-21-43, Figure 1, to add new part.

(2) V2500 Engine Manual, Chapter/Section 72-00-50, Installation-07, to add the assembly procedure for the new parts.



## 2. Accomplishment Instructions

### A. Rework Instructions

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

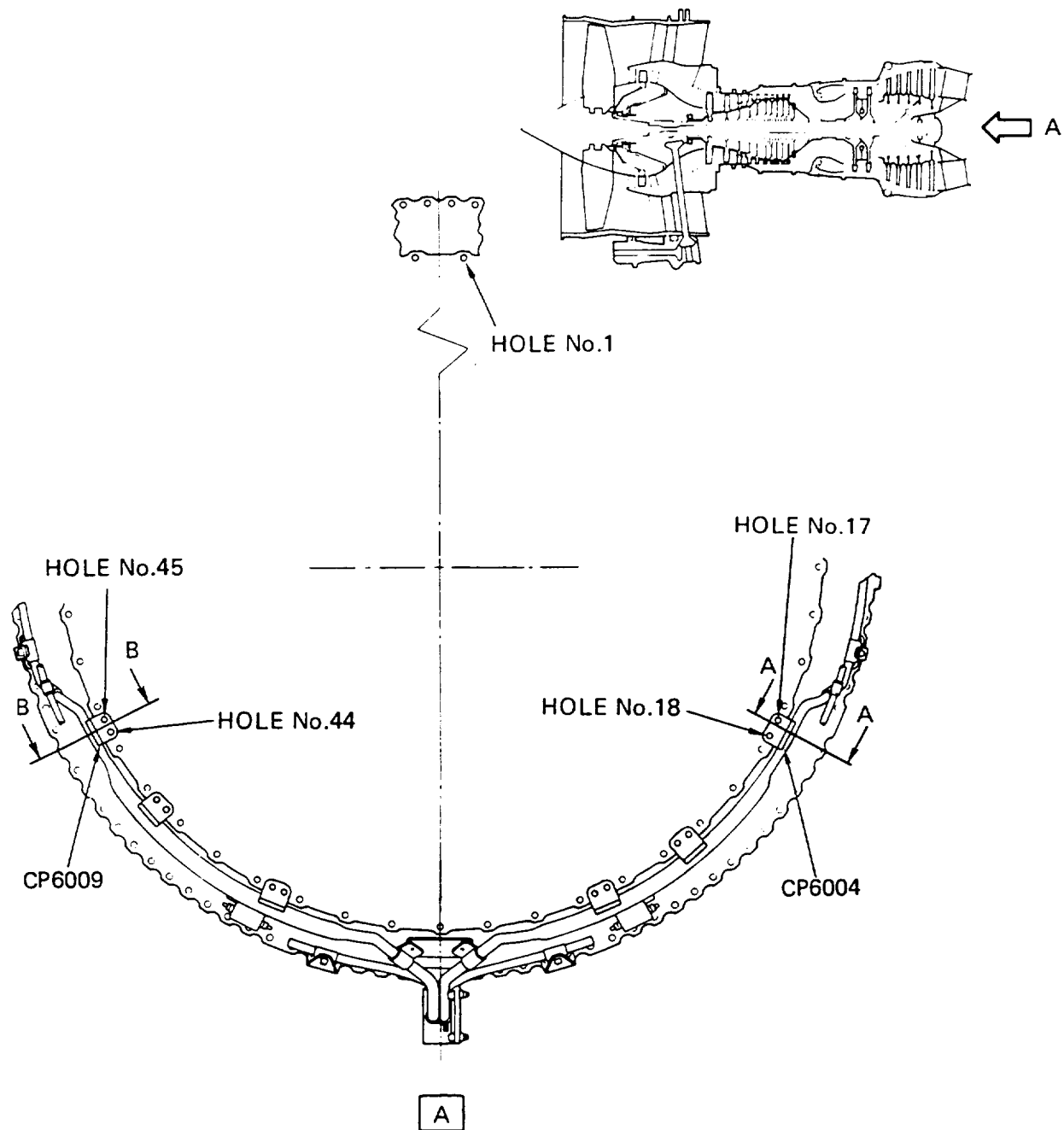
### B. Assembly Instructions

- (1) Replace the Thermocouple Box and Cable by the approved procedures in Reference (1), Chapter/Section 72-00-50 Installation-07 except:
  - (a) Install the EGT Harness Clip to the Bracket at Clipping Point CP6004 (No.17 and 18 hole locations located on Flange FT) as follows:
    - (i) Lubricate the threads of the 4W0001 Nut (1 off) with CoMat 10-039 engine oil. Refer to Figure 1.
    - (ii) Install a new 347493 Washer (1 off) on the Bracket Assembly Bolt.
    - (iii) Connect the EGT Harness Clip to the Bracket Assembly and Washer.
    - (iv) Install the 4W0001 Nut and tighten it with your hand.
  - (b) Install the EGT Harness Clip to the Bracket at Clipping Point CP6009 (No.44 and 45 hole locations located on Flange FT) as follows:
    - (i) Do step (a)(i) through (iv) again.
  - (c) Torque the nuts to 36 - 45 lbfin. (4,00 - 5,00 Nm). See Reference (2), Control No./TASK No.70-41-00-400-501.

### C. Recording Instructions

- (1) A record of accomplishment is necessary.

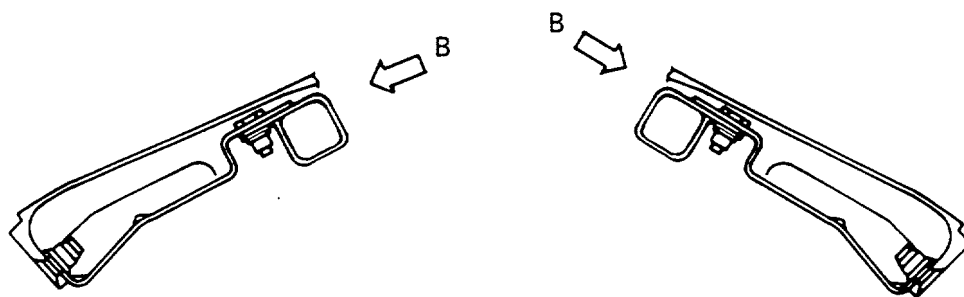
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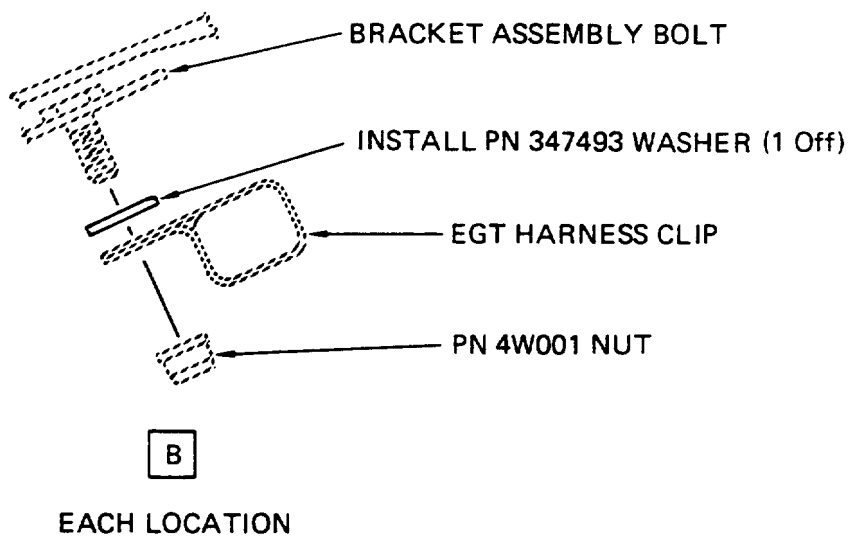
Exhaust gas temperature (EGT) Harness clipping point locations  
Fig.1 (Sheet 1 of 2)

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SECTION A-A  
CLIPPING POINT CP6004

SECTION B-B  
CLIPPING POINT CP6009



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Exhaust gas temperature (EGT) harness clipping point locations  
Fig.1 (Sheet 2 of 2)

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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
347493 (77-21-43)	2	0.49	Washer	- (01-196) (01-221)	(A)

C. Instruction/Disposition Code Statements:

(A) New part is currently available.

NOTE: The estimated 1990 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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