

AIR - INTRODUCE A SUPPORT BRACKET FOR THE FBC BUFFER AIR TUBE ASSEMBLY - CATEGORY CODE  
6 - MOD.ENG-75-0011

1. Planning Information

A. Effectivity

- (1) Aircraft: Airbus A320
- (2) Engine: V2500-A1 Engines prior to Serial Number V0122.

B. Reason

(1) Condition

Possible vibration of the Front Bearing Compartment (FBC) Buffer Air Tube may occur because of resonance of the Tube during engine operation.

(2) Background

This condition was observed on the development engine during the shake test at 189 Hz.

A shake test has shown that an additional support Bracket for the FBC Buffer Air Tube is necessary to eliminate the resonance on this tube.

(3) Objective

The changes in configuration recommended in this Service Bulletin are intended to maintain engine reliability.

(4) Substantiation

Substantiation test is not required.

(5) Effect of Bulletin on workshop procedure:

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

The Removal/Installation of the Post-Service Bulletin Configuration requires revision of the Engine Manual under chapter 72-00-40, to reflect the addition of the Bracket and the clipping parts at CP5799.

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**SERVICE BULLETIN****C. Description**

(1) The changes introduced by this Bulletin are as follows:

- (a) An additional clipping Bracket which is mounted on the Air Off-take Duct lower flange is introduced to hold the FBC Buffer Air Tube at an additional clipping position CP5799. (See Figures 1 and 2).

(2) A new Bracket will be available for future replacement purposes.

**D. 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.

**E. Compliance**

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Accomplish when the subassembly (i.e. Module, 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 (Note: The parts affected by this Service Bulletin are accessible at overhaul).	
(a) To install the new Bracket and clipping parts   ..   ..   ..   ..	

Total: 4 minutes

**G. Material – Price and Availability**

- (1) Modification Kit not required. parts supplied as single line items.
- (2) See "Material Information" section for prices and availability of future spares.

**H. Tooling – Price and Availability**

Special tools are not required to accomplish this Service Bulletin.

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**SERVICE BULLETIN****I. Weight and Balance**

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

EC89VJ002

- (2) Other references

V2500 Engine Illustrated Parts Catalog, Chapter/Section 75-00-49, and 75-22-49.

V2500 Engine Manual, 72-00-40, Installation, TASK 72-00-40-420-005, and TASK 72-00-40-420-006.

V2500 Standard Practices/Processes Manual, 70-41-00, Torque Tightening Technique.

**L. Other Publications Affected**

- (1) V2500 Engine Illustrated Parts Catalog, Chapter/Section 75-00-49, and 75-22-49 will be revised to show the additional Bracket and clipping parts.
- (2) V2500 Power Plant Illustrated Parts Catalog, Chapter/Section 75-00-49, and 75-22-49 will be revised to show the additional Bracket and clipping parts.
- (3) V2500 Engine Manual, 72-00-40, Removal/Installation will be revised to show the additional Bracket and the clipping position CP5799.

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## 2. Accomplishment Instructions

### A. Rework Instructions

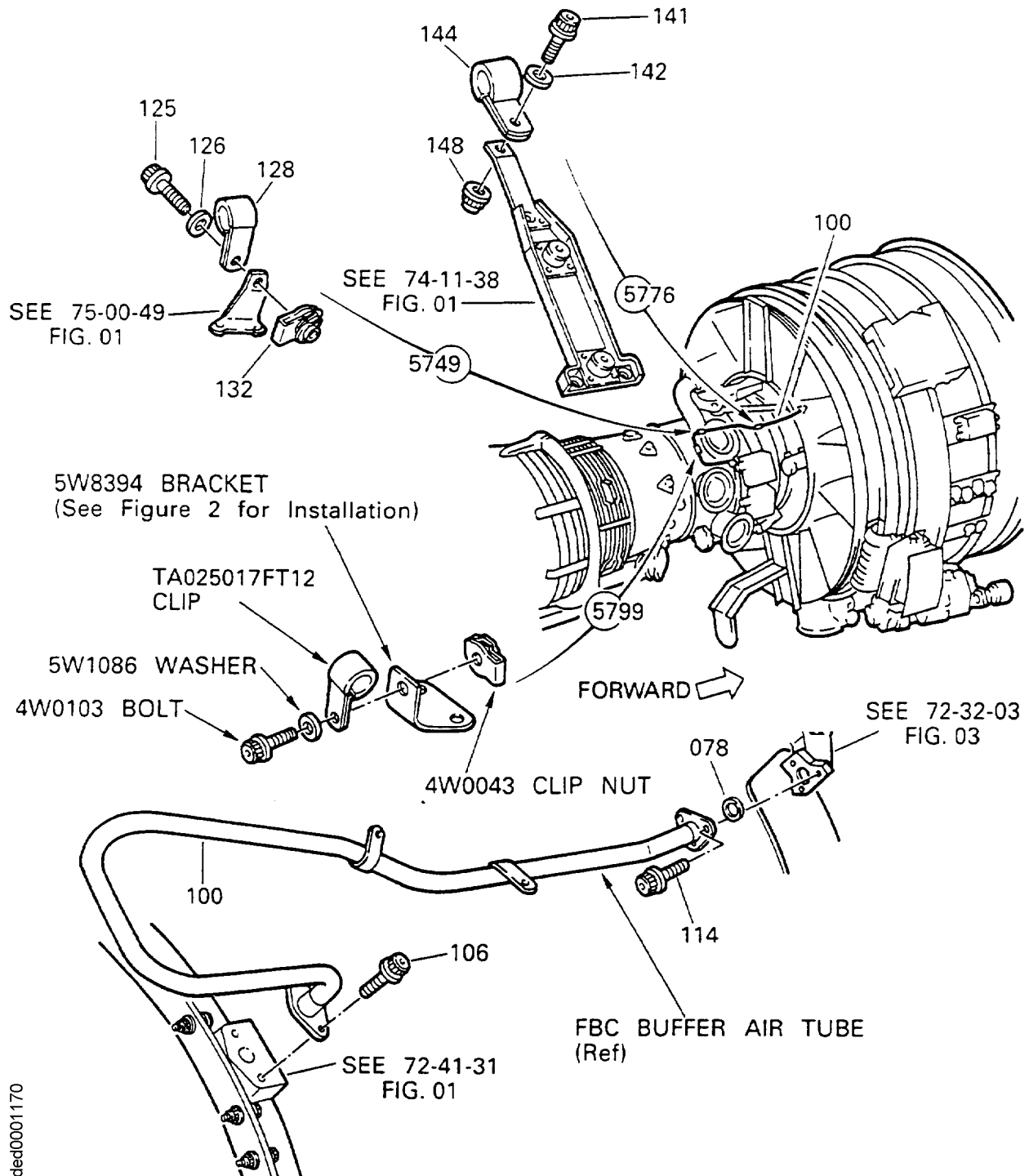
- (1) There are no rework instructions necessary to accomplish this Service Bulletin.

### B. Assembly Instructions

- (1) Install the additional 5W8394, Bracket, on the Air Off-take Duct lower flange when installing the Air Off-take Ducts to the HP Compressor Case by the approved procedures in the Engine Manual, 72-00-40, Installation, TASK 72-00-40-420-005. (Refer to Figure 2, and 1.K.(2)).
- (2) At additional CP5799, install the additional 4W0103, Bolt, 5W1086, Washer, TA025017FT12, Clip, and 4W0043, Clip Nut, to the additional 5W8394, Bracket, and the FBC Buffer Air Tube, when installing the Tubes by the approved procedures in the Engine Manual, 72-00-40, Installation, TASK 72-00-40-420-006. Torque the Bolt to 36 - 45 lbfin. (4,00 - 5,00 Nm) at CP5799. (Refer to Figure 1, 1.K.(2), and 1.K.(3)).

### C. Recording Instructions

- (1) A record of accomplishment is necessary.

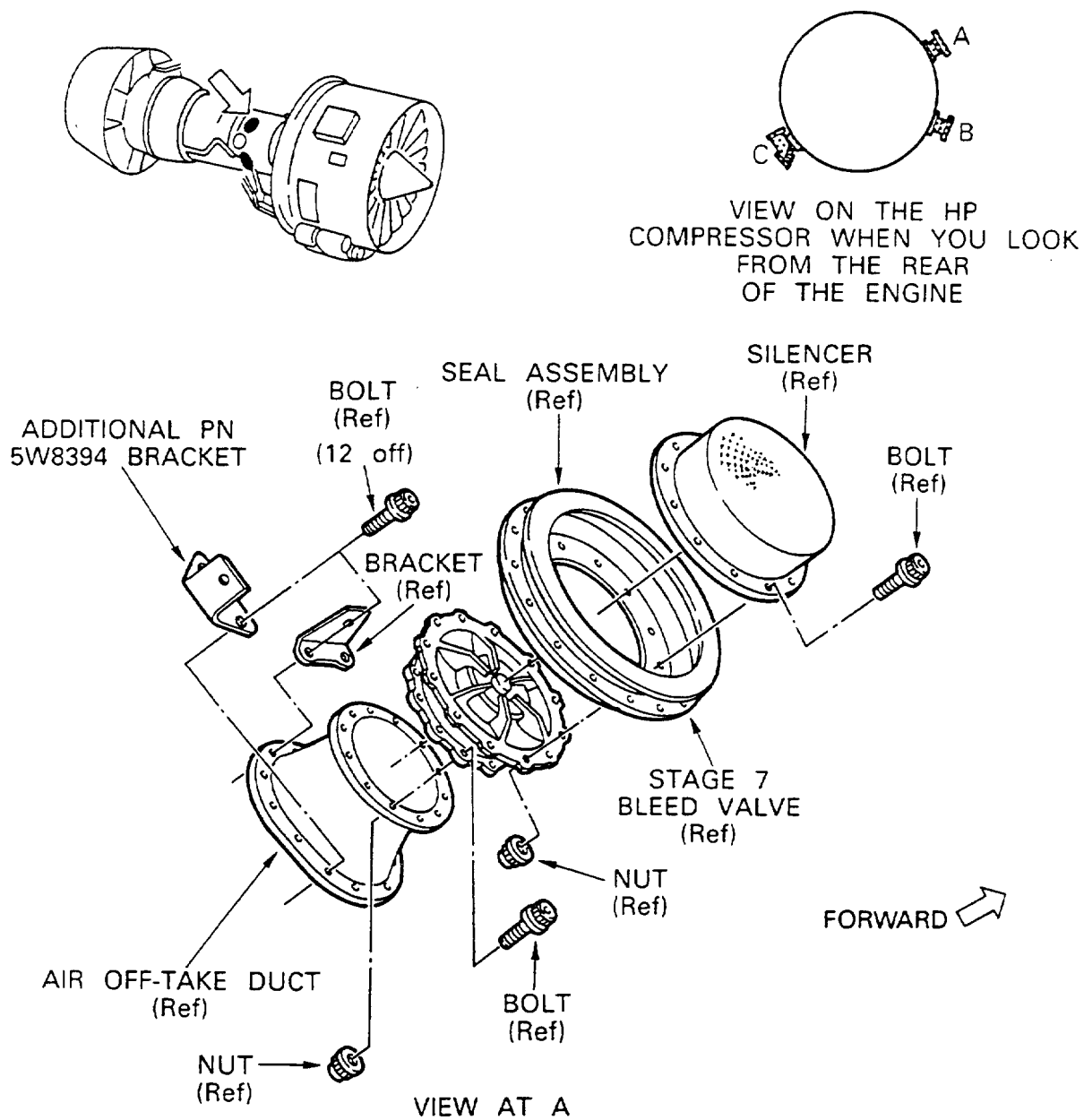


Location of the FBC buffer air tube and the additional bracket at CP5799  
Fig.1

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Installation of additional bracket  
Fig.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
5W8394 (75-00-49)	1	7.20	.Bracket, CP5799	- (01-092)	(A)(1D)
4W0103 (75-22-49)	1	9.47	.Bolt, CP5799	- (11-149)	(A)(1D)
5W1086 (75-22-49)	1	0.27	.Washer, CP5799	- (11-150)	(A)(1D)
TA025017 FT12 (75-22-49)	1	12.50	.Clip, CP5799	- (11-152)	(A)(1D)
4W0043 (75-22-49)	1	1.65	.Nut, Self Locking CP5799	- (11-156)	(A)(1D)

C. Instructions/Disposition Code Statements:

- (A) New part is currently available for sale.  
(1D) Additional part.

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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