



ENGINE - FUEL AND CONTROL - FUEL SYSTEM AIR TUBES, P12.5 TUBE SUPPORT BRACKET, WIRE LOCKING PROVISION - CATEGORY CODE 6 - MOD.ENG-73-0003

1. Planning Information

A. Effectivity

- (1) Aircraft: Airbus A320
- (2) Engine: V2500-A1 engines 1102000, 1108000 prior to Serial No.V0074 as delivered.

B. Reason

(1) Condition

Potential unsatisfactory wire locking of the diagnostic system P12.5 flexible hose union and adjacent rigid tube retention nut.

(2) Background

The diagnostic system flexible hose union is wire locked to a retention nut which holds the previous rigid tube onto a support bracket.

The retention nut is not independently wire locked and engineering evaluation has shown the possibility of both the rigid tube retention nut and flexible hose union becoming loose.

(3) Objective

The change in configuration recommended in this modification is designed to facilitate positive wire locking and maintain reliability.

(4) Substantiation

The additional features introduced by this modification employ standard engineering practise used satisfactorily on numerous engine applications.

(5) Effects 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

V2500-ENG-73-0003



The removal and installation of the Post, Service Bulletin configuration is affected due to a new tube support bracket being introduced

C. Description

- (1) The changes introduced by this Bulletin are as follows:
 - (a) The P12.5 diagnostic tube support bracket at the flexible hose to rigid tube joint has an additional hole for wire locking purposes.
 - (b) Both the P12.5 flexible hose union and rigid tube retention nut are wire locked through the additional hole in the diagnostic tube support bracket.
- (2) Existing diagnostic tube support brackets can be reworked, see Figure 1.
- (3) Revised wire locking for the P12.5 flexible hose union and rigid tube return nut, see Figure 2.

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

Category Code 6

Accomplish when the sub-assembly (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	1 hour

NOTE: The parts affected by this Service Bulletin are accessible at overhaul.

G. Material - Price and Availability

- (1) Modification Kit not required.



SERVICE BULLETIN

- (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 |
| (3) | Datum | .. | .. | .. | Engine front mount centreline
(Power Plant Station (PPS) 100) |

J. Electrical Load Data

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

K. References

- (1) Internal Reference No.
EC88VR151
- (2) Other References
V2500 Engine Manual, 72-00-32, Installation.

L. Other Publications Affected

- (1) V2500 Illustrated Parts Catalog, 73-22-49.
- (2) V2500 engine Manual, 72-00-32, Removal -02 and -03 Installation -03 and -04.



2. Accomplishment Instructions

A. Rework Instructions

- (1) Rework UP11034 angle bracket, refer to 73-22-47 Fig./Item No.03-790 as follows:

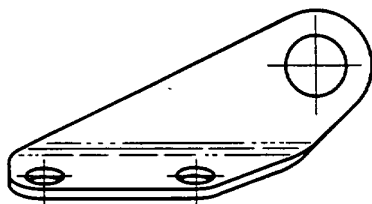
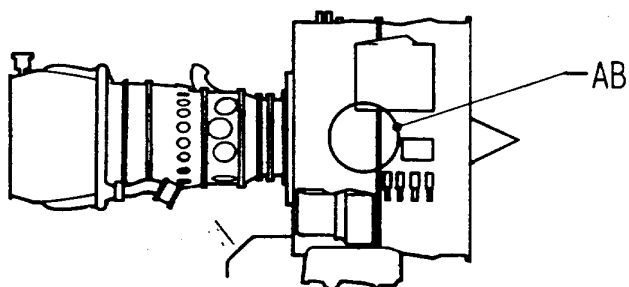
Procedure	Supplementary Information	
(a) Mark position of the hole and centre punch the hole centre	Refer to Figure 1.	
(b) Drill the hole in the bracket	Refer to Figure 1. Clamp the bracket in the vice on a pillar drill and use 0.063in. dia (1,6 mm) drill.	
(c) Remove the burrs from around the hole		
(d) Crack test the bracket	Refer to SPM, TASK 70-23-01-230-501	
(e) Re-identify with new part number - vibro-engrave adjacent to existing part number	New Part No.	Old Part No.
	UP11228	UP11034

B. Assembly Instructions

- (1) New UP11228 angle bracket is interchangeable with in use bracket.
- (2) Assemble new UP11228 angle bracket in accordance with approved overhaul procedures, Engine Manual, 72-00-32, Installation.
- (3) Assemble the tube support bracket onto the rigid tube and tighten the rigid tube retention nut and flexible hose union and wire lock in accordance with current overhaul procedures (Refer to Engine Manual, 72-00-32, Installation).

C. Recording Instructions

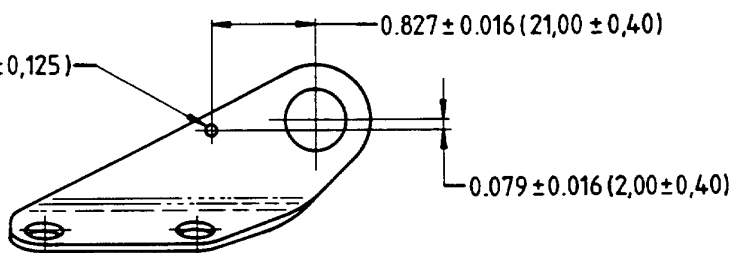
- (1) A record of accomplishment is necessary.



VIEW AT AB
SHOWING BRACKET, ANGLE
BEFORE MODIFICATION

1 HOLE

$\phi 0.0679 \pm 0.0049$ ($\phi 1,725 \pm 0,125$)

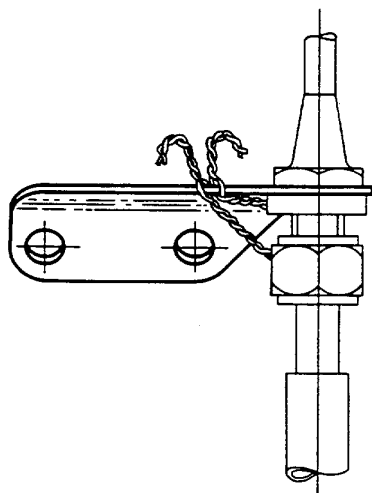


REWORK OF BRACKET, ANGLE

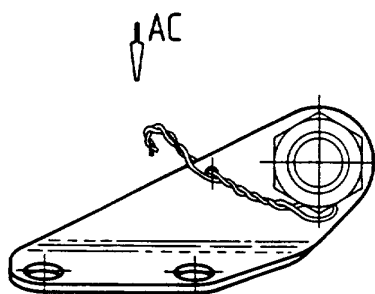
LOCKING FOR SAFETY WITH WIRE, SEE TEXT
DIMENSIONS IN INCHES (MILLIMETERS)

ded00000920

Modification of diagnostic tube support bracket
Fig.1



VIEW → AC



REPEAT VIEW AT AB
SHOWING CONNECTIONS LOCKED
FOR SAFETY WITH WIRE
AFTER MODIFICATION

Modification of diagnostic tube support bracket
Fig.2

V2500-ENG-73-0003

3. Material Information

New Part No. (ATA No.)	Qty	Est'd Unit Price (\$)	Keyword	Old Part No. (IPC No.)	Instructions Disposition
------------------------------	-----	-----------------------------	---------	------------------------------	-----------------------------

Applicability: All engines

A. Kits associated with this bulletin:

None

B. Parts affected by this bulletin:

UP11228	1	23.00	Bracket, angle	UP11034	(A)(B)(1)
(73-22-49)				(03-790)	

C. Instruction Disposition Code Statements:

- (A) New part currently available.
- (B) Old part not available as a future spare
- (1) New parts can be fitted in place of old part but not visa versa

NOTE: The estimated 1989 Unit Prices shown are provided for planning purposes only and does not constitute a firm quotation. Contact IAE's Spare Parts Sales Department for information concerning firm prices.

