



ENGINE - FUEL AND CONTROL - FUEL AND CONTROL - REPLACEMENT OF FUEL FEED TUBE -  
CATEGORY CODE 4 - MOD.ENG-73-0018

1. Planning Information

A. Effectivity

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

B. Reason

(1) Condition

Mismatching may occur at both ends of the fuel feed tube connecting the bifurcation panel to fuel distribution valve.

(2) Background

Difficulty of tube connection was reported. Investigation clarified that the fuel tube is slightly short.

(3) Objective

To avoid possible difficulty of tube connection and damage to end fittings.

(4) Substantiation

Substantiation is analytically completed.

(5) Effect of Bulletin on workshop functions:

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

(6) Supplemental Information

None

C. Description

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

V2500-ENG-73-0018



(a) 2A0656 Tube supersedes 2A0655 and/or 2A0641 Tube.

D. Approval

The part number changes and 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 4

Accomplish at the first visit of an engine to a maintenance base capable of compliance with the accomplishment instructions regardless of the planned maintenance action or the reason for engine removal.

F. Manpower

Estimated Manhours to incorporate the full intent of this Bulletin:

Venue	Estimated Manhours
-------	--------------------

(1) In service

- |  |       |            |
|--|-------|------------|
| (a) To gain access                     | .. .. | 16 minutes |
| (b) To embody                          | .. .. | 12 minutes |
| (c) To return engine to flyable status | .. .. | 25 minutes |

TOTAL: 53 minutes

(2) At Overhaul Not applicable

NOTE: No additional time will be required to maintain the new configuration.

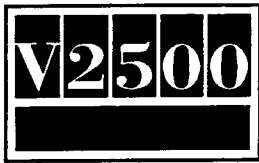
G. Material - Price and Availability

- (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 necessary.

V2500-ENG-73-0018



SERVICE BULLETIN

I. Weight and Balance

- (1) Weight change .. .. None
- (2) Moment arm .. .. No effect
- (3) Datum .. .. Engine front mount centerline  
(Powerplant Section (P.P.S.) 100)

J. Electrical Load Data

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

K. References

- (1) Internal References  
  
89VJ103
- (2) Other References  
  
V2500 Maintenance Manual; 71-00-00 Adjustment/Test, 71-13-00. Maintenance Practices and 78-32-00 Maintenance Practices.  
  
V2500 Engine Manual; 72-00-40 Removal/Installation  
  
V2500 Service Bulletin; V2500-ENG-70-0023

L. Other Publications Affected

- (1) V2500 Engine Illustrated Parts Catalog; 73-11-49



## 2. Accomplishment Instructions

### A. Prerequisite Instructions

- (1) Open the Fan Cowls. (Refer to TASK 71-13-00-010-010, Aircraft Maintenance Manual).
- (2) Open the Thrust Reverser Halves. (Refer to TASK 78-32-00-010-010, Aircraft Maintenance Manual).

### B. Replacement Instructions (Refer to figure 1 and Reference (2), TASK 72-00-40-020-002 and TASK 72-00-40-420-006)

**WARNING:** BE CAREFUL WHEN YOU WORK ON THE ENGINE IMMEDIATELY AFTER THE ENGINE IS SHUTDOWN. THE ENGINE AND FUEL STAY HOT FOR UP TO ONE HOUR.

**WARNING:** DO NOT LET ENGINE FUEL STAY ON YOUR SKIN FOR A LONG TIME. FLUSH THE FUEL FROM YOUR SKIN WITH WATER. THE FUEL IS POISONOUS AND CAN GO THROUGH YOUR SKIN AND IN TO YOUR BODY.

**CAUTION:** DO NOT LET ENGINE FUEL FALL ON THE ENGINE. UNWANTED FUEL MUST BE REMOVED IMMEDIATELY WITH A CLEAN LINT FREE CLOTH. THE FUEL CAN CAUSE DAMAGE TO THE SURFACE PROTECTION AND TO SOME PARTS.

- (1) Remove 400WSS12 Clip from 2A0641 and/or 2A0655 Tube.
  - (a) Remove 4W0001 Nut, 5W1086 Washer and 4W0103 Bolt to release the clip.
  - (b) Remove the clip from the tube.
- (2) Remove 2A0641 and/or 2A0655 Tube.

**NOTE:** Drain the fuel into a container when you disconnect the fuel tubes.

- (a) Disconnect 2A0641 and/or 2A0655 Tube from 2A1462 Tube at the bifurcation panel.
  - (b) Remove three 4W0166 Bolts which attach 2A0641 and/or 2A0655 Tube to the fuel distribution valve and remove the tube.
  - (c) Remove AS43013-116 Seal ring from 2A0641 and/or 2A0655 Tube and MS9966-10 Seal ring from 2A1462 Tube. Discard removed seal rings.
- (3) Install 2A0656 Tube.
    - (a) Lightly lubricate a new MS9966-10 Seal ring with CoMat 10-038 petroleum jelly or CoMat 10-060 liquid paraffin. Install the seal ring on 2A1462 Tube at the bifurcation panel.



## SERVICE BULLETIN

- (b) Lightly lubricate a new AS43013-116 Seal ring with CoMat 10-038 petroleum jelly or CoMat 10-060 liquid paraffin. Install the seal ring on 2A0656 Tube.
- (c) Attach 2A0656 Tube to the fuel distribution valve with three 4W0166 Bolts.
- (d) Connect 2A0656 Tube to the 2A0641 Tube at the bifurcation panel.
- (e) Torque the bolts to 85 to 105 lbfin (10 to 12 Nm). Torque the tube connector to 1150 to 1250 lbfin (130 to 141 Nm). Safety with CoMat 02-126 lockwire.
- (4) Clip 2A0656 Tube to 6A2134 Raceway.
  - (a) Install 400WSS12 Clip to 2A0656 Tube.
  - (b) Install the clip to the lug of 6A2134 Raceway using 4W0103 Bolt, 5W1086 Washer and 4W0001 Nut.
  - (c) Torque the nut to 36 to 45 lbfin (4 to 5 Nm).

## C. Postrequisite Instructions

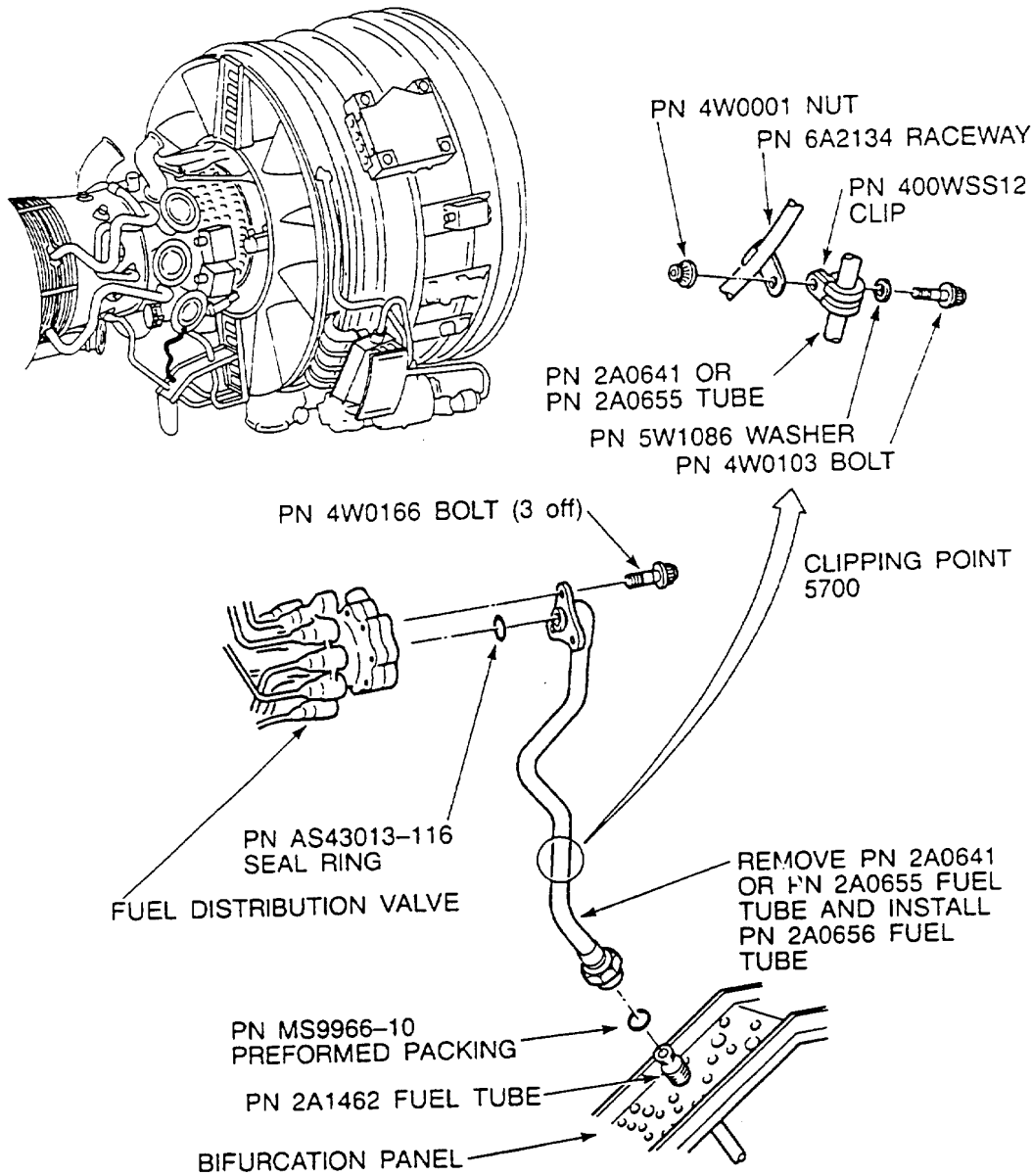
- (1) Do the TEST No.2 Wet Motor Leak Check. (Refer to TASK 71-00-00-700-016, Aircraft Maintenance Manual).
- (2) Close the Thrust Referser Halves. (Refer to TASK 78-32-00-410-010, Aircraft Maintenance Manual).
- (3) Close the Fan Cowls. (Refer to TASK 71-13-00-410-010, Aircraft Maintenance Manual).

## D. Recording Instructions

- (1) A record of accomplishment is required.



## SERVICE BULLETIN



Replacement of fuel feed tube  
Fig.1

V2500-ENG-73-0018



## 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
2A0656 (73-11-49)	1	749.00	Tube, fuel	2A0655 or 2A0641 (09-100)	(A)

C. Expendable parts required to incorporate this Bulletin

Part No.	ATA/IPC No.	Qty	Keyword
MS9966-10	73-11-49 08-090	1	Packing, preformed
AS43013-116	73-11-49 09-116	1	Ring, seal

D. 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 Contac IAE's Spare Parts Sales Department for information concerning firm prices.

E. Consumable Materials

The following consumable material is required.

CoMat 02-126	Lockwire
CoMat 10-038	Petroleum jelly
CoMat 10-060	Liquid paraffin

