International Aero Engines

SERVICE BULLETIN

ENGINE - FUEL AND CONTROL - ENGINE - ELECTRONIC ENGINE CONTROL (EEC) - BURNER PRESSURE (PB) SENSOR TUBE - MOISTURE CONTAMINATION CHECK - CATEGORY CODE 3 - MOD.ENG-73-0014

1. Planning Information

A. Effectivity

(1) Aircraft: Airbus A320

(2) Engine: All V2500-A1 Engines which incorporate Service Bulletin Number V2500-ENG-73-0011

B. Reason

(1) Condition

Asymetric thrust conditions have occurred in some V2500 engines which have Burner Pressure (pb) lines with enlarged drain holes in the moisture traps. This condition resulted because moisture contamination caused the Electronic Engine Control to sense incorrect burner pressure. The inspection procedure given in this Service Bulletin is provided to make sure that Burner Pressure (pb) Sense Lines remain free of contamination.

C. Compliance

Category Code 3

Accomplish within 50 hours after receipt of this Service Bulletin, and subsequently at 175 hour intervals until all of these Service Bulletins are incorporated: V2500-ENG-73-0011, V2500-ENG-73-0015, V2500-NAC-71-0069 and V2500-ENG-71-0070.

It is not necessary to do the procedure given in this Service Bulletin after the Service Bulletins specified are incorporated.

D. Approval

The "Compliance", statement, and the requirement for performing the moisture accumulation checks specified in Paragraph 2 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. References

(1) Internal Reference No.

89VA321

89VA321A

(2) Other References

A320 Aircraft Maintenance Manual

V2500 Engine Illustrated parts Catalog, 73-22-49

F. Action

(1) Do the prequisite procedures which follow:

(a) Open the fan cowl doors by the approved procedure in Reference (1), Chapter/Section 71-13-00, Maintenance Practices.

(b) Open the thrust reverser halves by the approved procedure in Reference (1), Chapter/Section 78-32-00, Maintenance,Practices.

(2) Purge the Burner Pressure (pb) lines as follows:

(a) Remove the lockwire from the fitting on the EEC end of the Flexible Hose.

(b) Disconnect the 5A9166 Flexible Hose (Ref.(2) 04-100) from the 5A8234 Union (Ref.(2) 01-270) on the Electronic Engine Control.

(c) Blow out any contamination from the Burner Pressure (pb) lines and back into the engine with nitrogen or clean dry air.

(d) During the purge procedure make sure that there is free flow through the PB Water Trap Holes.

Note: Blocked holes can be cleared by performing Step (e).

(e) Put a piece of 0.025in. wire, or equivalent, through the hole and lightly hit the sides of the moisture trap to remove any possible contaminant.

(3) Inspect the Sensor Screen as follows:

(a) Remove the Lockwire from the 5A8234 Union, on the Electronic Engine Control.

(b) Remove the 5A8234 Union from the PB Sensor Inlet Port and discard the NAS1595-4 Packing (Ref.(2), 01-271).

(c) Inspect the Sensor Screen with a X10 magnifying glass and a white light.

(d) Check the screen for any white powder contaminant.

(e) If there is a white powder contaminant on the Sensor Screen replace the Electronic Engine Control by the approved procedure in Reference (1), Chapter/Section 73-22-34 Removal/Installation.

(f) If moisture is present in the EEC part, dry the area with a lint free cloth.

(g) Purge the inner diameter of the 5A8234 Union to remove the moisture with nitrogen or clean dry air.

(h) Install a NAS1595-4 Packing on the 5A8234 Union.

CAUTION: MAKE SURE THE UNION IS INSTALLED WITH THE CONICAL SEAT TOWARD THE FLEXIBLE HOSE CONNECTION.

(i) Install the 5A8234 Union in the EEC PB Inlet Port.

(j) Torque the Union to 168 - 181 lbfin (19,0 - 20,5 Nm).

(k) Safety the Union with CoMat 02-141 Lockwire by the approved procedures in Reference (1) Chapter/Section 70-23-11, Torque Tightening Techniques, and Chapter/Section 70-40-11, Installation of Locking Devices.

(l) Connect the 5A9166 Flexible Hose to the 5A8234 Union.

(m) Torque the connector to 142 - 150 lbfin (16 to 17 mm.).

(n) Safety the Union with CoMat 02-126 Lockwire by the approved procedures in Reference (1) Chapter/Section 70-23-11, Torque Tightening Techniques, and Chapter/Section 70-40-11, Installation of Locking Devices.

(4) Do Test No.6 on the Electronic Engine Control. Refer to the approved procedures in Reference (1) Chapter/Section 71-00-00, Maintenance Practices (TASK 71-00-00-700-012).

(5) Do the postrequisite procedures that follows:

(a) Close the thrust reverser halves by the approved procedure in Reference (1), Chapter/Section 78-32-00, Maintenance Practices.

(b) Close the fan cowl doors by the approved procedure in Reference (1), Chapter/Section 71-13-00, Maintenance Practices.