



ENGINE - FUEL AND CONTROL - ENGINE - FUEL - INTRODUCE AN IMPROVED FUEL FILTER ELEMENT
- CATEGORY CODE 6 - MOD.ENG-73-0039

1. Planning Information

A. Effectivity

(1) Aircraft : Airbus A320

(2) Engine : V2500-A1 Engines, prior to Serial Number V0354*

* The serial number data shown is of a preliminary nature and is provided for advanced planning only. A future revision to this service bulletin will confirm final serial number effectivity.

B. Reason

(1) Condition

The current V2500-A1 filter could be inadvertently installed in other engine models.

(2) Background

The current A1 filter does not have sufficient durability features for use in other engine models.

(3) Objective

To ensure proper filter installation and to provide parts commonality.

(4) Substantiation

As engineering assessments endurance rig testing and development engine testing were carried out conclude that the items introduced by this Service Bulletin will be satisfactory.

(5) Effects 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

None.

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**C. Description**

- (1) The new 5L0048, Fuel Filter has been introduced which is added protective layer in the element and increase durability against heavy fuel flow fluctuation.
- (2) To prevent inadvertant incorrect filter assembly and to obtain parts commonality.

D. Approval

The 'Compliance' statement and the procedures described in paragraph F. of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulation and are FAA-APPROVED for the Engine Model listed.

E. Compliance

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

F. Manpower

Estimated Manhours to incorporate the full intent of this Bulletin:

Venue	Estimated Manhours	
(1) In service		
(a) To embody	0 hours 16 minutes
(b) To return engine to flyable status	0 hours 17 minutes
	Total:	0 hours 33 minutes
(2) At overhaul	Total:	0 hours 16 minutes

G. Material Price and Availability

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

H. Tooling - Price and Availability

Special tools are not required.

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I. Weight and Balance

- | | | | |
|-----|---------------|-------|--|
| (1) | Weight change | | None |
| (2) | Moment arm | | No effect |
| (3) | Datum | | Engine front mount centerline
(Power Plant Station - PPS 100) |

J. Electrical Load Data

No effect.

K. References

- (1) Internal Reference No.

EC92VJ046

- (2) Other References

IAE Engineering Change 92VJ046.

V2500 Aircraft Maintenance Manual.

V2500 Engine Illustrated Parts Catalog, Chapter/Section 73-12-42.

L. Other Publications Affected

- (1) None

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2. Accomplishment Instruction

A. Task to be performed

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.

WARNING: BE CAREFUL WHEN YOU WORK ON THE ENGINE COMPONENTS IMMEDIATELY AFTER THE ENGINE IS SHUTDOWN. THE ENGINE COMPONENTS CAN STAY HOT FOR UP TO ONE HOUR AND CAN CAUSE INJURY.

WARNING: DO NOT FUEL OR OIL FALL IN THE ENGINE. UNWANTED FUEL MUST BE REMOVED IMMEDIATELY WITH THE CLEAN LINT FREE CLOTH. THE FUEL OR OIL CAN CAUSE DAMAGE TO THE SURFACE PROTECTION AND TO SOME PARTS.

- (1) Find the location of the Fuel Cooled Oil Cooler (FCOC) and the 0F25-005, Fuel Filter Cap Assembly, (See Figure 1.)

CAUTION: DO NOT PUT FUEL THAT HAS BEEN DRAINED FROM THE ENGINE BACK IN TO THE FUEL SYSTEM.

- (2) Drain the fuel from the FCOC as follows;

- (a) Cut and discard the Lockwire which safety the fuel drain plug.

- (b) Put the container below the fuel drain port of the FCOC.

- (c) Remove the fuel drain plug and drain the fuel into the container.

- (d) Remove and discard the 0F25-021, Sealing Ring, (See Figure 1.)

- (3) Remove the five bolts and washers which attach the Cap Assembly to the flange of the FCOC.

- (4) Remove the Cap Assembly and remove and discard the 0F25-014, Sealing Ring. (See Figure 1.)

- (5) Remove and discard the 5L0013, Fuel Filter Element from the FCOC. (See Figure 1.)

- (6) Install the new, 5L0048, Fuel Filter Element into the FCOC. (See Figure 1.)

NOTE: Make sure that the Fuel Filter Element is in the correct seating in the FCOC housing.

- (7) Install the Cap Assembly into the FCOC. (See Figure 1.)

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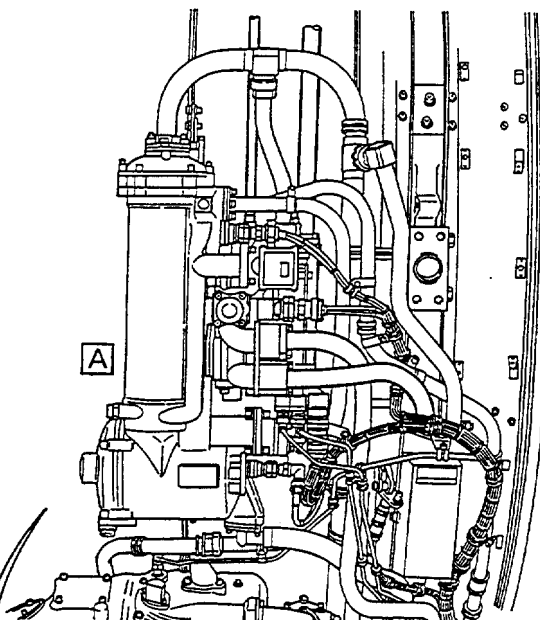
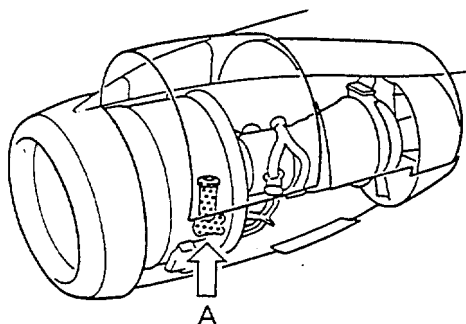
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- (a) Lubricate the new, OF25-014, Sealing Ring with the CoMat 10-077 approved engine oil and install it in groove of the Cap Assembly.

NOTE: Make sure that the end seal outer diameter of the Fuel Filter Element is aligned with the internal diameter of the Cap Assembly.

- (b) Align the bolt holes in the Cap Assembly with the bolt holes in the flange of the FCOC.
 - (c) Install the five bolts and washers through the Cap Assembly into the FCOC.
 - (d) Torque the bolts to 180 to 220 lbfin. (20,0 to 25,0 N.m).
- (8) Install the fuel drain plug. (See Figure 1.)
- (a) Lubricate the new, OF25-021, Sealing Ring with the CoMat 10-077 approved engine oil and install it to the fuel drain plug.
 - (b) Install the fuel drain plug to the fuel plug.
 - (c) Torque the fuel drain plug to 110 to 120 lbfin. (12,4 to 13,4 N.m).
 - (d) Safety the fuel drain plug to the fuel plug with the CoMat 02-147 Lockwire.
- (9) Do a fuel leak test of the FCOC housing. Reference (1), TASK 71-00-00-710-017. Leaks are not permitted.

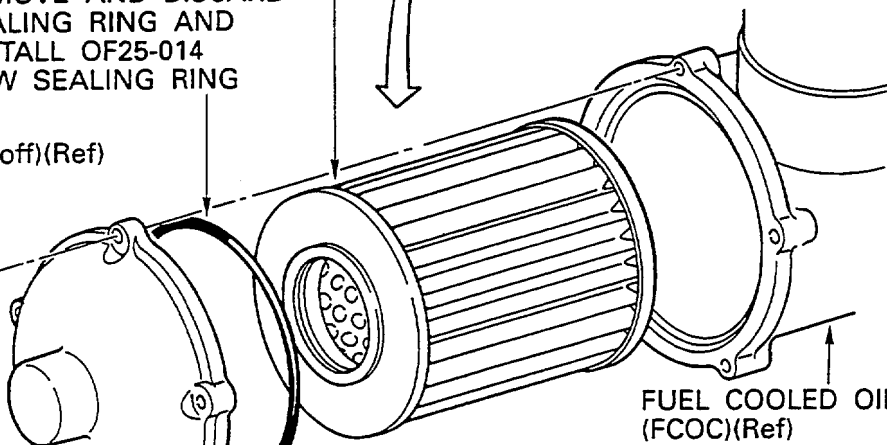
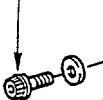
B. No record of accomplishment is necessary.



REMOVE AND DISCARD 5L0013
FUEL FILTER ELEMENT AND
INSTALL 5L0048 FUEL FILTER ELEMENT

REMOVE AND DISCARD
SEALING RING AND
INSTALL OF25-014
NEW SEALING RING

BOLTS (5 off)(Ref)



REMOVE AND INSTALL OF25-005
CAP FILTER ASSEMBLY (1 off)(Ref)

REMOVE AND DISCARD
SEALING RING AND
INSTALL OF25-021
NEW SEALING RING



FUEL DRAIN PLUG (Ref)



Replacement of the Fuel Filter Element
Fig.1

ded0000951



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3. Material InformationA. Kits associated with this bulletin:

None

B. Part Number Transactions:

The following parts are required to accomplish this modification on V2500-A1 Engine.

New Part No. (ATA No.)	Qty	Est'd Unit Price (\$)	Keyword	Old Part No. (IPC No.)	Instruction Disposition
5L0048 (QA07301) (73-12-42)	1	-----	.Element Fuel Filter	5L0013 (QA06370) (01-100)	(A) (B) (C) (1) (2)

Instructions/Disposition Statements:

- (A) New part is currently available.
- (B) Old part will no longer be available.
- (C) Old and new parts are freely and fully interchangeable both physically and functionally.
- (1) Discard the old Filter Element which is replaced with the new Filter Element.
- (2) Discard the existing stock of the old Filter Element.

NOTE: The estimated 1993 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 Sales Department for information concerning firm prices.

C. Consumables Required to Incorporate this Bulletin:

CoMat No.	Material Type
V10-077	Engine Oil
V02-147 or V02-0199	Lockwire

D. Expendable parts required to incorporate this Bulletin:

Part Number	Nomenclature	Qty
0F25-014	Sealing Ring	1
0F25-021	Sealing Ring	1

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