

## SERVICE BULLETIN

ENGINE - HP COMPRESSOR - REWORK THE FUEL FLOW DIVIDER MOUNT BRACKET ASSEMBLIES TO  
PROVIDE ADDITIONAL TOOL CLEARANCE - CATEGORY CODE 6 - MOD.ENG-72-0078

1. Planning InformationA. Effectivity

- (1) Aircraft: Airbus A320
- (2) Engine: V2500-A1 Engines before Serial No.V0131 (for bracket assembly 2A2073-01); V2500-A1 Engines before Serial No.V0145 and Engine Serial No. V0158 (for bracket assembly 2A1729-01).

B. Reason

## (1) Condition

At times difficulty was experienced attaching the Seventh Stage Bleed Valve to the engine because of inadequate wrench clearance. Also, interference can exist between the Rear Fuel Flow Divider Valve Bracket and its mounting flange when tolerance extreme exist.

## (2) Background

There may not be a sufficient amount of wrench clearance to mount the Seventh Stage Bleed Valve because of interference with the Fuel Flow Divider Valve Brackets. Also under certain circumstances, the Rear Fuel Flow Divider Valve Bracket does not mount to the engine flange properly.

## (3) Objective

To provide more wrench clearance for the Seventh Stage Bleed Valve Retention Bolts and to eliminate potential interference between the Rear Fuel Flow Divider Valve and its mounting flange.

## (4) Substantiation

Satisfactory fit check.

## (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

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C. Description

- (1) This change provides configuration modifications of Front and Rear Fuel Flow Divider Valve Bracket Assemblies. The modifications give additional clearance for the Seventh Stage Bleed Valve Retention Bolts and will permit the Rear Bracket Assembly to rest in its correct position, when mounted on the flange.

D. Approval

The Part Number changes and/or part modification 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

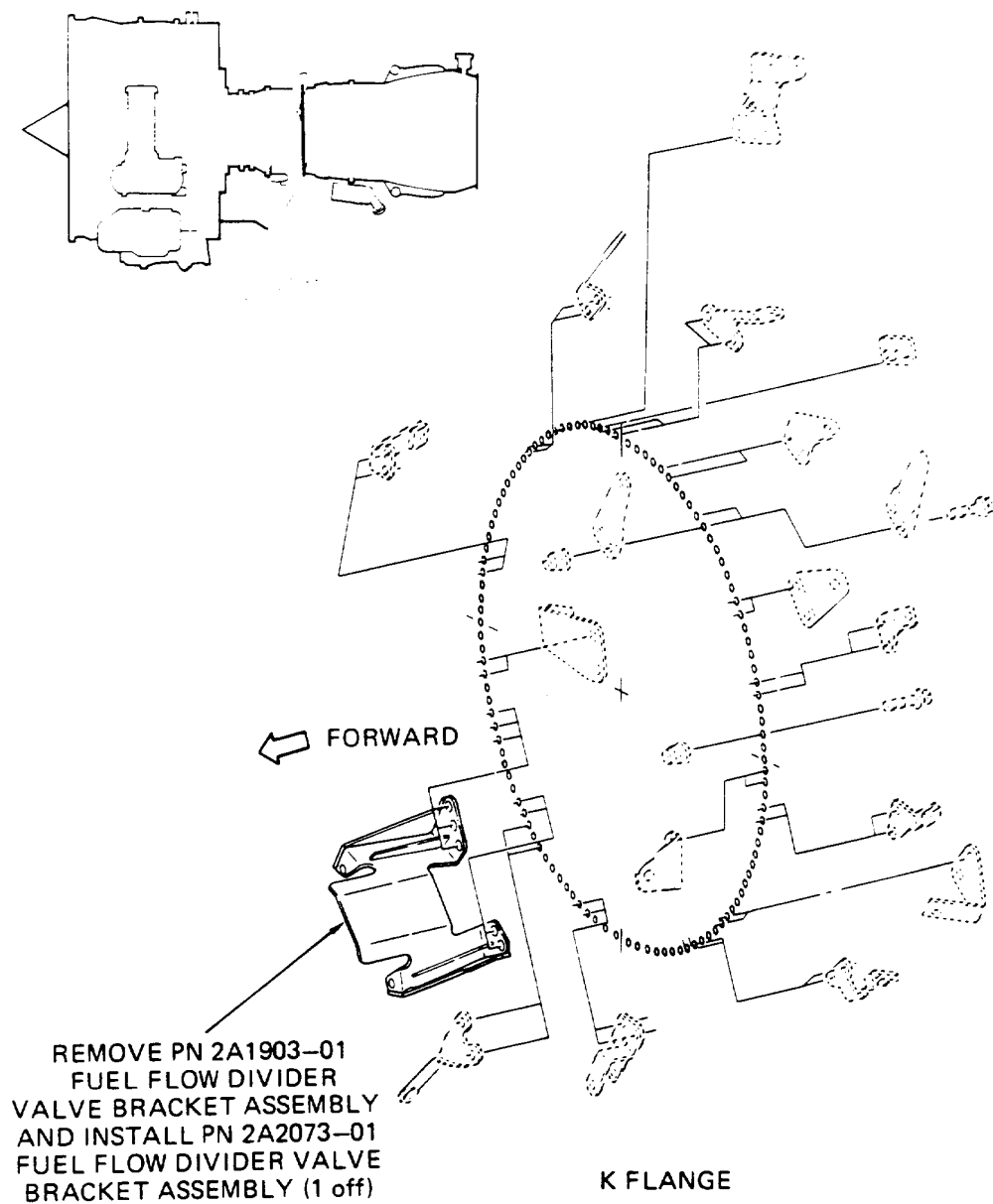
Category Code 6

Category when the subassembly (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:

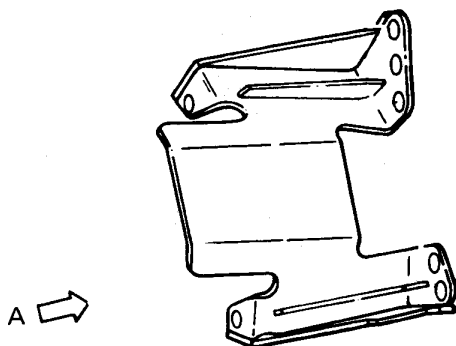
Venue	Estimated Manhours
(1) In Service	Not applicable
(2) At overhaul	TOTAL 1 hour 32 minutes
(a) Modify fuel flow divider valve bracket assembly 2A1903-01     ..   ..   ..	1 hour 7 minutes
(b) Modify fuel flow divider valve bracket assembly 2A1696-01     ..   ..   ..	25 minutes
TOTAL	1 hour 32 minutes



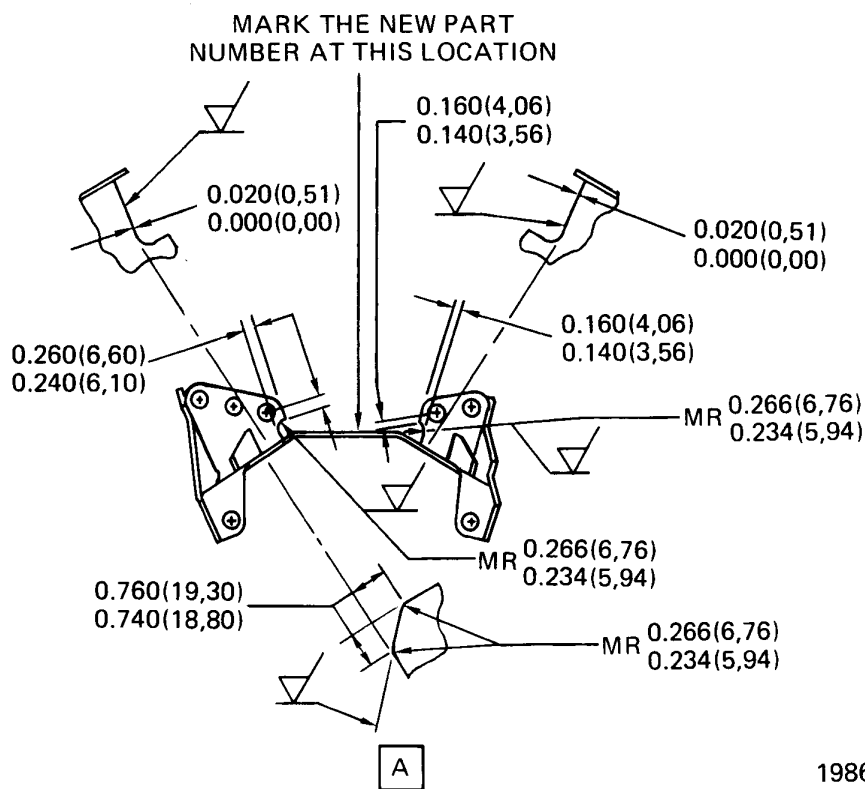
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Location of the 2A1903-01 fuel flow divider valve bracket assembly  
Fig.1

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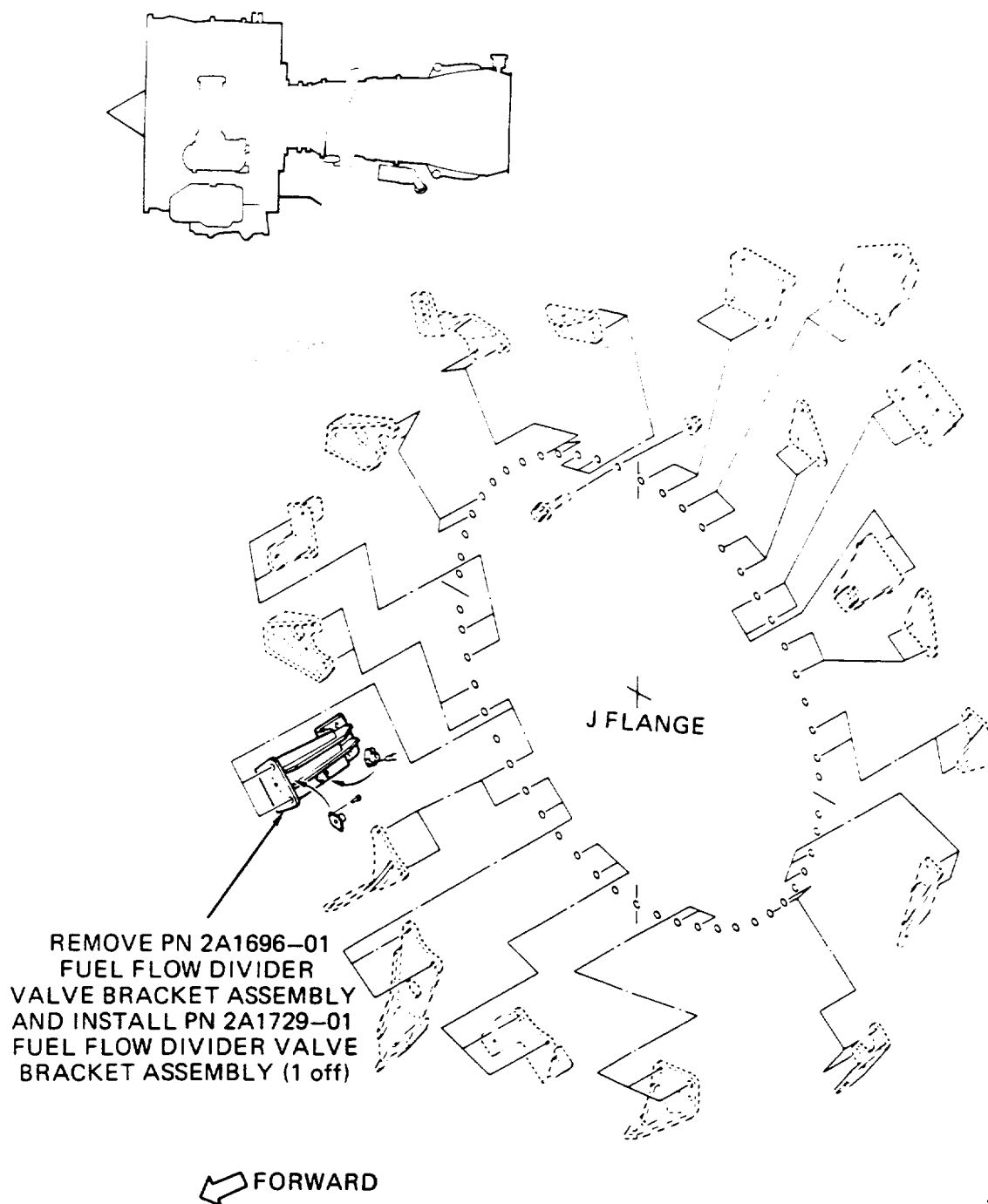
FUEL FLOW DIVIDER VALVE BRACKET ASSEMBLY  
(PN 2A1903 - 01)



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Modification of the 2A1903-01 fuel flow divider valve bracket assembly  
Fig.2

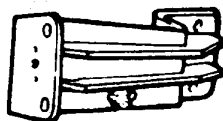
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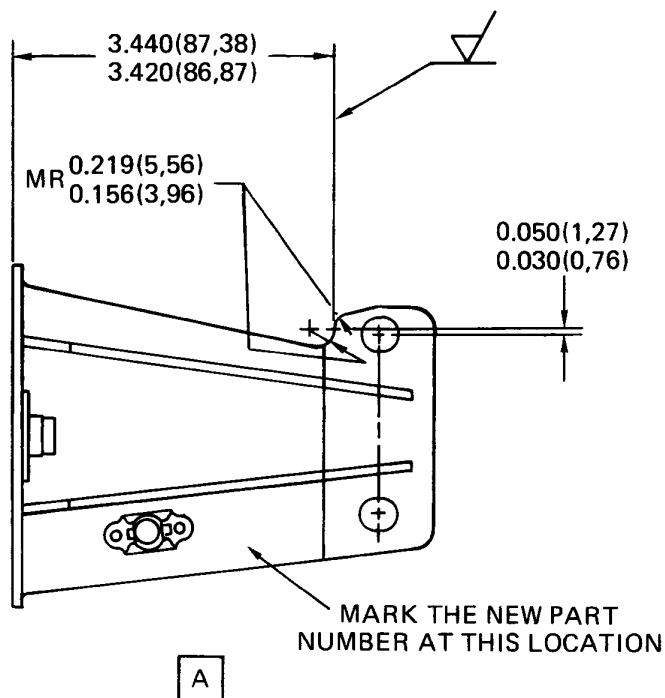
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Location of the 2A1696-01 fuel flow divider valve bracket assembly  
Fig.3

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FUEL FLOW DIVIDER VALVE BRACKET ASSEMBLY  
(PN 2A1696 - 01)



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Modification of the 2A1696-01 fuel flow divider valve bracket assembly  
Fig.4

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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 required.

I. Weight and Balance

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

J. Electrical Load Data

- (1) This Service Bulletin has no effect on the aircraft electrical load.

K. Reference

- (1) Internal Reference No.

EC89VA099

- (2) Other References

V2500 Engine Illustrated Parts Catalog.

V2500 Standard Practices Manual.

V2500 Engine Manual.

L. Other Publications Affected

- (1) V2500 Engine Illustrated Parts Catalog, Chapter/Section 72-40-00, Figure 1, and Chapter/Section 72-41-00, Figure 3, to add the new parts.
- (2) V2500 Engine Manual, Chapter/Section 72-40-00 and 72-41-00, Cleaning, to add the new parts.
- (3) V2500 Engine Manual, Chapter/Section 72-40-00 and 72-41-00, Inspection/Check, to add the new parts.

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- (4) V2500 Engine Manual, Chapter/Section 72-40-00 and 72-41-00, Repair, to add the new parts.

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## 2. Accomplishment Instructions

### A. Rework Instructions

- (1) Do a modification to the 2A1903-01 Fuel Flow Divider Valve Bracket Assembly (1 off) (See Reference (1), 72-40-00, Fig/Item No.01-260) and identify as follows:

Procedure	Supplementary Information	
(a) Set-up and machine the Fuel Flow Divider Valve Bracket Assembly to the dimensions specified	Refer to Figures 1 and 2, requirements	
(b) Mark the new part number adjacent to the old part number. Use the vibration peen method	Old Part Number	New Part Number
	2A1903-01	2A2073-01
	Refer to Reference (2), Control No./Task No.70-09-00-400-501	

- (2) Do a modification to the 2A1696-01 Fuel Flow Divider Valve Bracket Assembly (1 off) (See Reference (1), 72-41-00, Fig/Item No. 03-400) and identify as follows:

Procedure	Supplementary Information	
(a) Set-up and machine the Fuel Flow Divider Valve Bracket Assembly to the dimensions specified	Refer to Figures 3 and 4, requirements	
(b) Mark the new part number adjacent to the old part number. Use the vibration peen method	Old Part Number	New Part Number
	2A1696-01	2A1729-01
	Refer to Reference (2), Control No./Task No.70-09-00-400-501	

### B. Assembly Instructions

- (1) Install the 2A2073-01 Fuel Flow Divider Valve Bracket Assembly (1 off) by the instructions given in Reference (3), Chapter/Section 72-42-00, Assembly.
- (2) Install the 2A1729-01 Fuel Flow Divider Valve Bracket Assembly (1 off) by the instructions given in Reference (3), Chapter/Section 72-41-00, Assembly-02/.

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### C. Recording Instructions

- (1) A record of accomplishment is necessary.

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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
2A2073-01 (72-40-00)	1	657.00	Bracket-Fuel Flow Divider Valve, Assembly	2A1903-01 (01-260)	(1D)(A)(B)
2A1729-01 (72-410-00)	1	356.00	Bracket-Fuel Flow Divider Valve, Assembly	2A1696-01 (03-400)	(1D)(A)(B)

C. Instruction/Disposition Code Statements:

- (1D) Old part can be modified and identified to the new part number.  
(A) New part is currently available.  
(B) Part is no longer available.

NOTE: The estimated 1991 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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