



ENGINE - DIFFUSER CASE ASSEMBLY AND FITTINGS - REPLACE THE PRESSURE CAP AND FLARELESS
TUBE UNION (PART MATERIAL IS CHANGED) - CATEGORY CODE 8 - MOD.ENG-72-0276

1. Planning Information

A. Effectivity

- (1) Aircraft: Airbus A320, A321
McDonnell Douglas MD-90
- (2) Engine: V2500-A1 Engines Before Serial No. V0362
V2522-A5 Engines before Serial No V10263*
V2524-A5 Engines before Serial No V10263*
V2527-A5 Engines before Serial No V10263*
V2530-A5 Engines before Serial No V10263*
V2533-A5 Engines before Serial No V10263*
V2525-D5 Engines before Serial No. V20147*
V2528-D5 Engines before Serial No. V20147*

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:

Pressure sealing caps and flareless tube unions exist which are fabricated from a superseded material.

(2) Background:

The parts fabricated from the superseded material are no longer available.

(3) Objective:

Replace the parts fabricated from corrosion resistant steel type 347 with parts from type 321 corrosion resistant steel which is a more readily available material.

(4) Substantiation

The military standard for these parts specifies that the new material is the presently accepted standard and that the "parts are not to be manufactured from type 347" (the superseded material).

(5) Effects of Bulletin on Workshop Procedures:

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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) Replace the applicable Pressure Cap MS21914-4S and Tube Union MS21902-04S with MS21914-4R and MS21902-4R, respectively.

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.

The 'compliance' statement and the procedures described in paragraph F 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 8

Accomplish based upon experience with the prior configuration.

F. Manpower

Estimated Manhours to incorporate the full intent of this Bulletin:

Venue	Estimated Manhours
(1) In service	Not applicable
(2) At overhaul	Not applicable

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**SERVICE BULLETIN****G. Material - Price and Availability**

- (1) Modification kit is not required. Parts are supplied as single line items.
- (2) See "Material Information" section for prices and availability of future spares.

H. Tooling - Price and Availability

Special tools are not required to accomplish this Service Bulletin. The following tools are required to accomplish the Service Bulletin.

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

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

K. References

- (1) Internal Reference No

97VA004

- (2) Other References

The V2500 Engine Illustrated Parts Catalog (S-V2500-2IA), Chapter/Section 72-42-10, 79-34-02 and 79-35-16 to add the new parts.

The V2500 Engine Illustrated Parts Catalog (S-V2500-3IA), Chapter/Section 72-42-10, 79-34-02 and 79-35-16 to add the new parts.

L. Other Publications Affected

- (1) The V2500 Engine Illustrated Parts Catalog (S-V2500-2IA), Chapter/Section 72-42-10, 79-34-02 and 79-35-16 to add the new parts.
- (2) The V2500 Engine Illustrated Parts Catalog (S-V2500-3IA), Chapter/Section 72-42-10, 79-34-02 and 79-35-16 to add the new parts.

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2. Accomplishment Instructions

For V2500-A1, V2522-A5, V2524-A5, V2527-A5, V2530-A5, V2533-A5, V2525-D5 and V2528-D5 Engines

- A. Replace the MS21914-4S Pressure Cap (1 off) with the MS21914-4R Pressure Cap. See Figure 1.

For V2525-D5 and V2528-D5 Engines

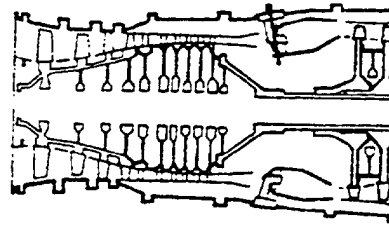
- B. Replace the MS21902-04S Tube Union (2 off) with the MS21902-4R Tube Union at two locations. See Figures 2 and 3.



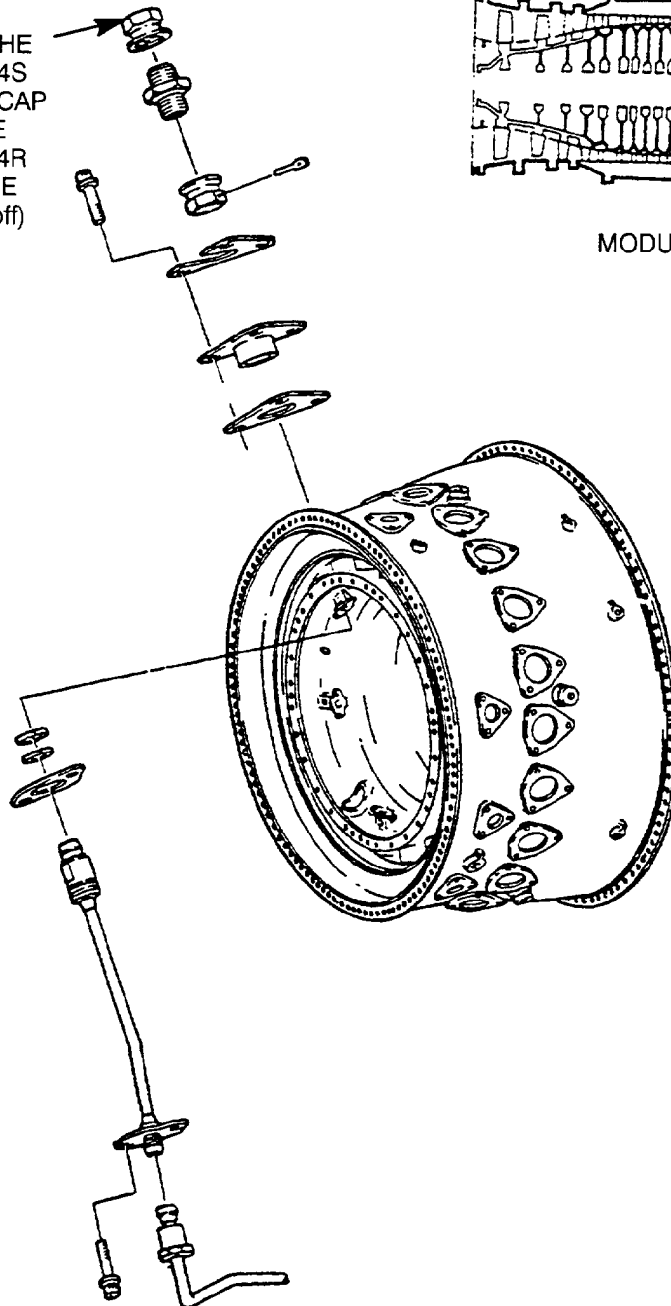
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REPLACE THE
MS21914-4S
PRESSURE CAP
WITH THE
MS21914-4R
PRESSURE
CAP (1 off)



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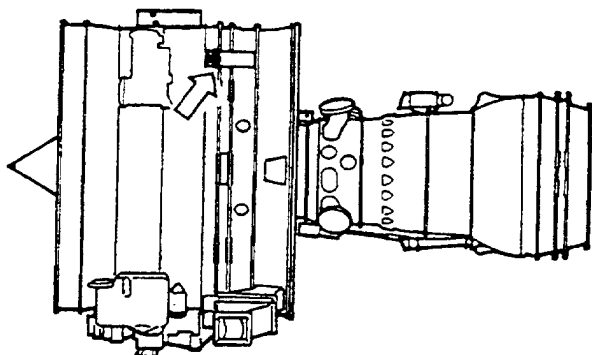
Location of the Pressure Cap (Typical For All Models Listed)
Fig.1

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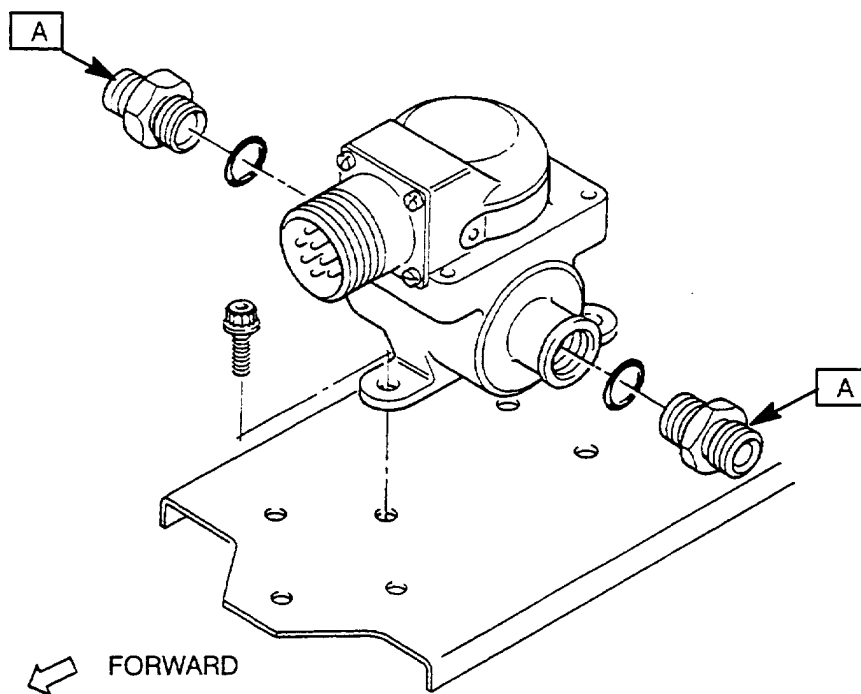
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REPLACE THE MS21902-04S UNION WITH
THE MS21902-4R UNION (2 off) ONE EACH
AT TWO LOCATIONS A



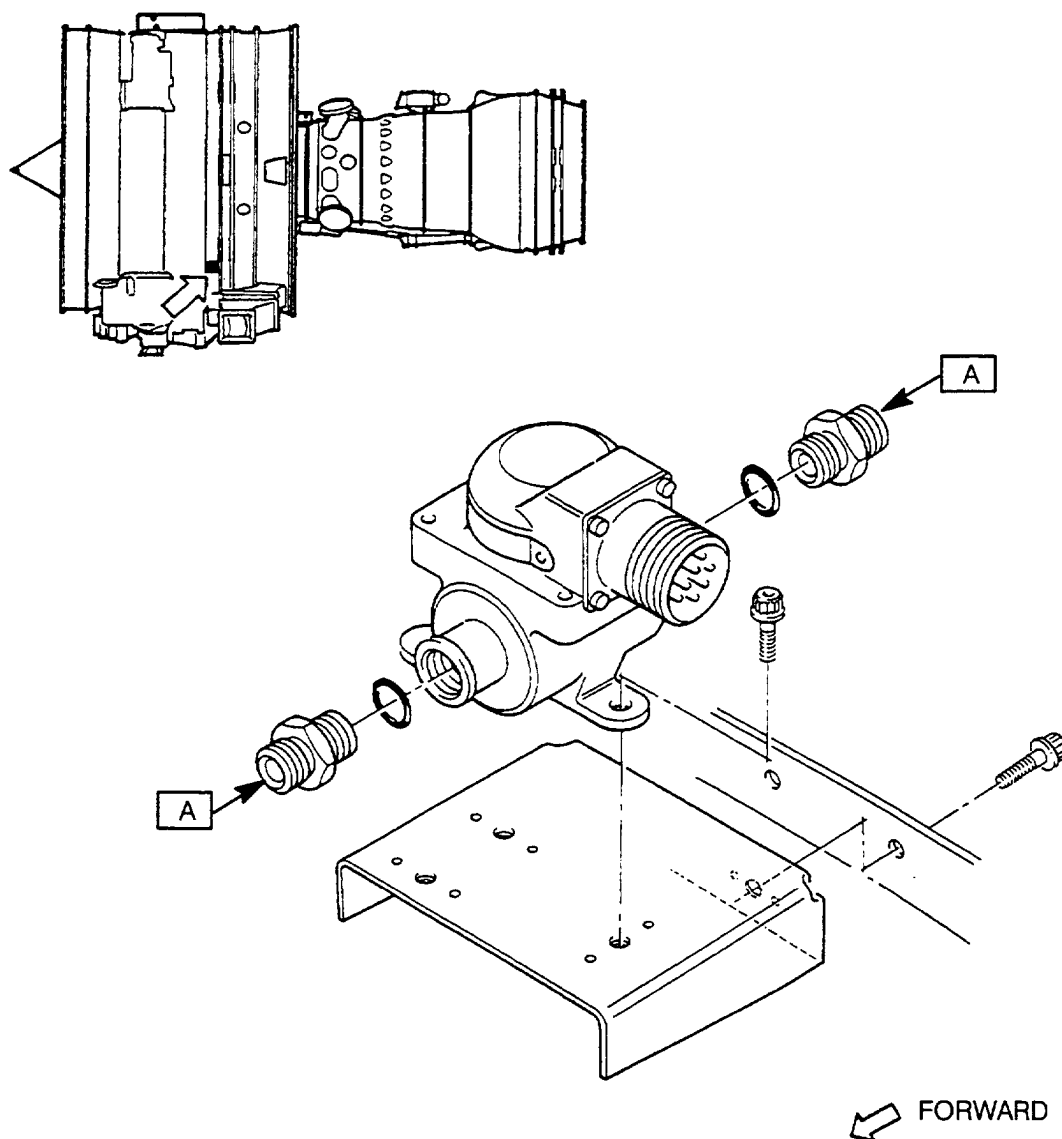
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Location of the Tube Union V2525-D5 and V2528-D5 Engines (79-34-02-01-109)
Fig.2

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REPLACE THE MS21902-04S UNION WITH
THE MS21902-4R UNION (2 off) ONE EACH
AT TWO LOCATIONS **A**

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Location of the Union V2525-D5 and V2528-D5 Engines (79-35-16-01-109)
Fig.3

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3. Material InformationA. Kit 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
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Applicability: For each V2500-A1, V2522-A5, V2524-A5, V2527-A5, V2530-A5, V2533-A5, V2525D5 and V2528-D5 Engine to incorporate this Bulletin.

MS21914-4R (72-42-10)	1		Cap, Pressure	MS21914-4S (01-120)	(S1)(A)(B)
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Applicability: For each V2525D5 and V2528-D5 Engine to incorporate this Bulletin.

MS21902-4R (79-34-02)	2		Union	MS21902-04S (01-109)	(S1)(A)(B)
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MS21902-4R (79-35-16)	2		Union	MS21902-04S (01-109)	(S1)(A)(B)
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C. Consumable MaterialsD. Instructions/Disposition Code Statements:

- (S1) Old and New Parts are freely and fully interchangeable
- (A) The new part is currently available.
- (B) The old part will no longer be supplied.

NOTE: The estimated 1997 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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