



ENGINE - AIR - ADDITION OF DETUNING HOLES ON THE ACC FRONT DUCT - CATEGORY CODE 6 -
MOD.ENG-75-0045

1. Planning Information

A. Effectivity

- (1) Aircraft: McDonnell Douglas MD-90
- (2) Engine: (a) V2525-D5 Engines prior to Serial Number V20010
(b) V2528-D5 Engines prior to Serial Number V20010

B. Concurrent Requirement

None

C. Reason

(1) Condition

V2500-D5 engines do not have detuning holes on the ACC inlet ducts.

(2) Background

Existing V2500 engine models have detuning holes on the ACC duct.
Addition of the holes has demonstrated reduction of accoustic resonance level and improved durability of ACC system parts.

(3) Objective

To add holes to the ACC Front Duct.

(4) Substantiation

The change introduced by this Bulletin was analytically substantiated.

(5) Effects of Bulletin on the following shop functions:

Removal/Installation	Not Affect
Disassembly/assembly	Not Affect
Cleaning	Not Affect
Inspection/Check	Not Affect
Repair	Not Affect
Testing	Not Affect

(6) Supplemental Information

None

**D. Description**

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

(a) 2A3733 ACC Front Duct supersedes 2A1520 ACC Front Duct.

E. 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.

F. Compliance

Category Code 6

Accomplish when the subassembly (i.e. modules, accessories, components, build groups) is disassembled sufficiently to afford access to the affected parts and to all affected spare parts.

G. Manpower

Estimated Man-Hours to incorporate the full intent of this Bulletin:

Venue	Est'd Man-Hours
(1) In service	Not applicable
(2) At overhaul	Not affected

Note: The Parts affected by this Service Bulletin are accessible at overhaul.

H. Material – price and Availability

(1) Modification Kit not required

(2) See "Material Information" section for price and availability of future spares.

I. Tooling – Price and Availability

Special Tools not required

J. weight and Balance

(1) Weight change No effect

(2) Moment arm No effect

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- (3) Datum Engine front mount
centerline (Powerplant
Section (PPS) 100)

K. Electrical Load Data

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

L. References

- (1) Internal Reference No.

94VJ039

- (2) Other References

IAE V2500-D5 Power Plant Illustrated Parts Catalog

IAE V2500-D5 Engine Illustrated Parts Catalog

IAE V2500-D5 Engine Manual

M. Other Publications Affected

- (1) IAE V2500-D5 Power Plant Illustrated Parts Catalog, 75-24-47, to incorporate new parts.
- (2) IAE V2500-D5 Engine Illustrated Parts Catalog, 75-24-47, to incorporate new parts.
- (3) IAE V2500-D5 Engine Component Maintenance Manual (CMM-THD-V2500-3IA), 75-24-47 Cleaning-01, to add new parts.
- (4) IAE V2500-D5 Engine Component Maintenance Manual (CMM-THD-V2500-3IA), 75-24-47 Inspection/Check-01, to add new parts.
- (5) IAE V2500-D5 Engine Component Maintenance Manual (CMM-THD-V2500-3IA), 75-24-47 Repair 001, VRS1505, to add new parts.

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2. Accomplishment Instructions

A. Rework Instructions

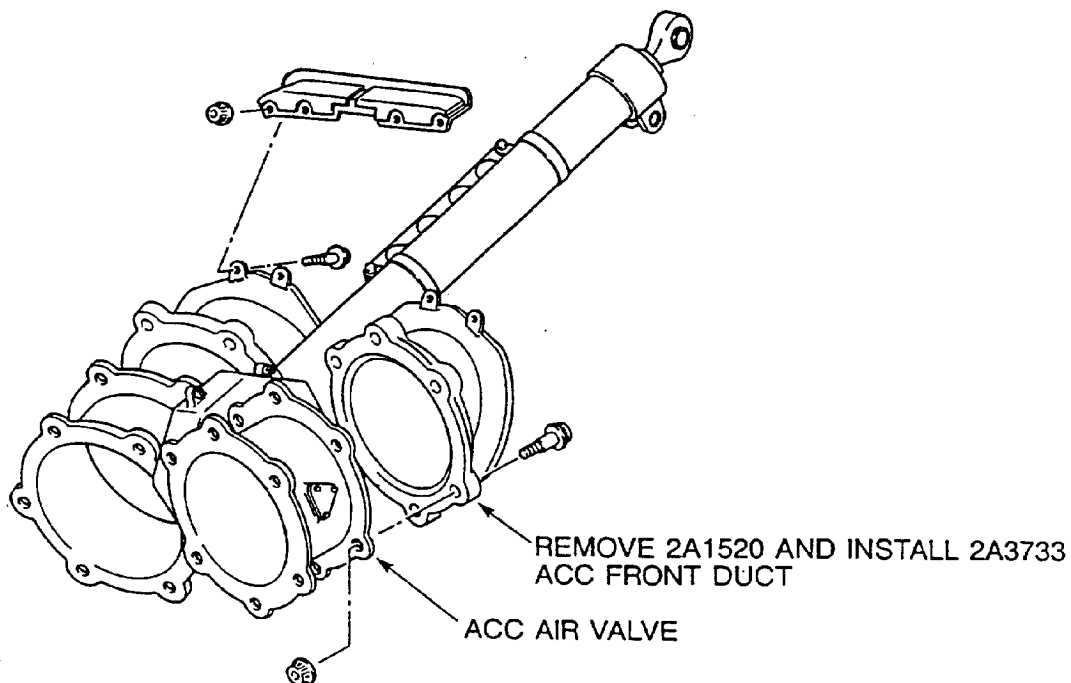
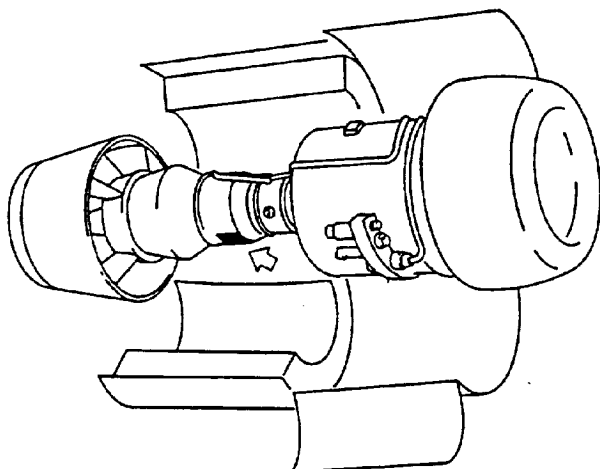
- (1) There are no rework instructions necessary to accomplish this Service Bulletin.

B. Assembly Instructions

- (1) When you Install the ACC Front Duct by the approved procedure in the Reference (3), Chapter/Section 72-00-40, Installation-10, install 2A3733 ACC Front Duct instead of 2A1520 ACC Front Duct.

C. Recording Instructions

- (1) A record of accomplishment is necessary.



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Replacement of ACC Front Duct
Fig.1

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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:

Part No. (ATA No.)	Qty	Unit Price (\$)	Keyword	Part No. (IPC No.)	Instructions Disposition
2A3733 (75-24-47)	1	7271.00	Duct, ACC Front	2A1520 (01-100)	(A)(B)(1D)

C. Instruction/Disposition Code Statements:

- (A) New part is currently available.
- (B) Old part is no longer available for sale.
- (1D) Return removed part to:

ATTN: M. KATSUMATA
MANAGER, No.1 Business Section
Engine & Control Equipment Department
Nagoya Guidance & Propulsion Systems
Mitsubishi Heavy Industries, LTD.
1200 Higashi-Tanaka,
Komaki-shi, Aichi-ken
485 Japan

NOTE: The estimated 1994 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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