



## SERVICE BULLETIN

POWER PLANT - EEC CHANNEL A AND B HARNESS - LOOM A AND B HARNESSES WITH THRUST REVERSER  
CIRCUIT WIRING REMOVED - CATEGORY CODE 7 - MOD.ENG-71-0203

### 1. Planning Information

#### A. Effectivity

- (1) Aircraft McDonnell Douglas MD-90
- (2) Engine
  - (a) V2525-D5 Engines prior to Serial No.V20050
  - (b) V2528-D5 Engines prior to Serial No.V20050

#### B. Concurrent Requirements

This Service Bulletin must only be installed to engines which have IAE V2500 Service Bulletin 73-0079 (Refer to 1.L.).

This Service Bulletin must only be installed to aircraft which have McDonnell Douglas modification WRO MD90-N0257 (Refer to 1.L.).

#### C. Reason

##### (1) Condition

McDonnell Douglas have removed and discarded the interlock function of the thrust reverser from the MD-90 airframe.

##### (2) Background

Incorrect error messages from the interlock circuit have been received by the EEC on several occasions.

##### (3) Objective

The purpose of this Service Bulletin is to maintain reliability.

##### (4) Substantiation

A satisfactory engineering analysis has been done on the changes contained in this Service Bulletin.

##### (5) Effect of Bulletin on Workshop Procedures:

# V2500-ENG-71-0203



## SERVICE BULLETIN

Removal/Installation	Affected
Disassembly/Assembly	Not affected
Cleaning	Not affected
Inspection/Check	Affected
Repair	Not affected
Testing	Affected

## (6) Supplemental Information

None.

D. Description

- (1) After the removal of the interlock functions of the thrust reverser, new EEC software SCN011B was added. This software changes the circuit logic so that errors from the thrust reverser are not transmitted. Thus the initial circuit wiring is not necessary.

The changes are as follows:

- (a) Loom A and loom B harness assemblies have had the interlock wiring for the thrust reverser removed as follows:
- (i) Loom A – the two wires from pins R and h in connector P1-8030 to pins 10 and 2 in connector P1-870 are removed.
- Loom B – the two wires from pins R and h in connector P1-8012 to pins 10 and 2 in connector P1-871 are removed.
- (ii) The unwanted sockets and pin positions on the Loom A and Loom B connectors have sealing plugs installed.

E. Approval

The part number changes and/or part modifications are given in Section 2 and 3 of this Service Bulletin. They obey the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine model listed.

F. Compliance

Category Code 7

Do this Service Bulletin when there are no initial parts remaining.

G. Manpower

Estimate of man-hours necessary to do this Service Bulletin in full:



# SERVICE BULLETIN

Venue	Estimated Man-hours
(1) In service .. .. .	Not applicable
(2) At overhaul .. .. .	No additional time is necessary to do this Service Bulletin

NOTE: It is possible to get access to the parts affected by this Service Bulletin at overhaul.

## H. Material - Price and Availability

- (1) A modification kit is not necessary.
- (2) See "Material Information" section for prices and availability of spares.

## I. Tooling - Price and Availability

Special tools are not necessary.

## J. Weight and Balance

- (1) Weight change .. .. . Minus 0,77 Kg (1.7 lb)
- (2) Moment arm .. .. . 328 mm (12.9 in.) forwards
- (3) Datum .. .. . Engine front mount centreline  
(Power Plant Station - PPS 100)

## K. Electrical Load Data

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

## L. References

- (1) Internal Reference No.

EC95VR017A

- (2) Other References

The IAE V2500 Service Bulletin that follows must be installed at the same time as this Service Bulletin:

73-0079	Provide new SCN11B electronic engine control (Version 025 software)
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The Aircraft Modification that follows must be installed together with this Service Bulletin:

# V2500-ENG-71-0203



WRO MD90-N0257 TRU Interlock Deletion

This Service Bulletin replaces the IAE V2500 Service Bulletin that follows:

ENG 71-0175 Engine – Power Plant – EEC fancase harness – Rework to delete thrust reverser interlock circuit

**M. Other Publications Affected**

- (1) V2500 Engine Illustrated Parts Catalog (EIPC), Chapter/Section 71-51-51, 71-51-52, 71-51-53, 71-51-54, 71-51-55 and 71-51-56.
- (2) V2500-D5 Engine Manual (EM), Chapter/Section 71-00-00, Fault Isolation.
- (3) V2500-D5 Component Maintenance Manual (CMM), Chapter/Section 71-51-51 and 71-51-54 Testing.
- (4) MD-90 Aircraft Maintenance Manual (AMM), Chapter/Section 71-51-51 and 71-51-54, Removal/Installation.



2. Accomplishment Instructions

A. Rework Instructions

None.

B. Assembly Instructions

To replace the Loom-A and Loom-B harnesses refer to the correct procedures in the MD-90 Aircraft Maintenance Manual (AMM), Chapter/Section 71-51-51 and 71-51-54.

C. Recording Instructions

(1) A record of accomplishment is necessary.



## SERVICE BULLETIN

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
6A6459 (71-51-51)	1	35360.00	Harness assembly - Loom A	6A5945 (01-005)	(A)(B)(S5)
BT4016-60P (71-51-51)	2	1.06	Plug	BT4016-60P (04-980)	(1D)(S1)
3400-152- 016 (71-51-51)	Ref		Plug	3400-152- 016 (04-980)	(1D)(S1)
T3-4020- 59L (71-51-51)	2	0.38	Plug, sealing	T3-4020- 59L (04-990)	(2D)(S2)
3400-043- 0020 (71-51-51)	Ref		Plug sealing	3400-043- 0020 (04-990)	(2D)(S2)
6A6459 (71-51-52)	Ref		Harness assembly - Loom A	6A5945 (01-005)	(C)
6A6459 (71-51-53)	Ref		Harness assembly - Loom A	6A5945 (01-005)	(C)
6A6460 (71-51-54)	1	35360.00	Harness assembly - Loom B	6A5946 (01-005)	(A)(B)(S5)
T3-4020- 59L (71-51-54)	2		Plug, sealing	T3-4020- 59L (04-984)	(3D)(S3)
3400-043- 0020 (71-51-54)	Ref		Plug sealing	3400-043- 0020 (04-984)	(3D)(S3)

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V2500-ENG-71-0203



## SERVICE BULLETIN

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BT4016-60P (71-51-54)	2	Plug	BT4016-60P (1D)(S4) (04-986)
3400-152- 016 (71-51-54)	Ref	Plug, sealing	3400-152- (1D)(S4) 016 (04-986)
6A6460 (71-51-55)	Ref	Harness assembly - Loom B	6A5946 (D) (01-005)
6A6460 (71-51-56)	Ref	Harness assembly - Loom B	6A5946 (D) (01-005)

NOTE: The unit prices, if shown, are an estimate and they are given for the purpose of planning only. For information about actual prices, refer to the IAE Price Catalog or contact IAE's Spare Parts Sales Department.

C. Instructions Disposition Codes

- (A) New parts are currently available
- (B) Old part is no longer available
- (C) Reference at this position only - See Chapter 71-51-51/01-005 for spareable item
- (D) Reference at this position only - See Chapter 71-51-54/01-005 for spareable item
- (S1) New parts coded (S1) are alternatives
- (S2) New parts coded (S2) are alternatives
- (S3) New parts coded (S3) are alternatives
- (S4) New parts coded (S4) are alternatives
- (S5) Old and new parts are not interchangeable
- (1D) Quantity required increased from 2 off to 4 off
- (2D) Quantity required increased from 17 off to 19 off
- (3D) Quantity required increased from 15 off to 17 off

V2500-ENG-71-0203

