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V2500-D5 PROPULSION SYSTEMS SERVICE BULLETIN

Printed in Great Britain

This document transmits the Initial Issue of Service Bulletin EV2500-79-0084

Bulletin Initial Issue

Remove

Incorporate
Pages 1 to 7 of the
Service Bulletin

Reason for change
Initial issue

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CHECK THAT ALL PREVIOUS TRANSMITTALS HAVE BEEN INCORPORATED
If any have not been received please advise Publication Services, Rolls-Royce plc, Derby, England
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LIST OF EFFECTIVE PAGES

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OIL - OIL QUANTITY TRANSMITTER - INTRODUCTION OF AN IMPROVED OIL QUANTITY TRANSMITTER

1. Planning Information

A. Effectivity

- (1) Boeing - Longbeach Division MD-90

V2525-D5, V2528-D5 Engines prior to Serial No. V20286.

B. Concurrent Requirements

None.

C. Reason

- (1) Condition

Several Operators have reported incidents where the Oil Quantity Transmitter has given incorrect readings. Fluctuating or loss of oil contents have been reported from the flight deck of affected aircraft. Further investigation has revealed that the attaching wiring from the PCB through the flange can become loose and short circuit to the capacitance tube.

- (2) Background

The problem has been observed on units in service.

- (3) Objective

Incorporation of the changes introduced by this Service Bulletin (Modification) is designed to maintain unit reliability.

- (4) Substantiation

The changes introduced by this Service Bulletin have been the subject of satisfactory engineering assessment and development engine testing together with significant service experience of representative units on other engine models.

- (5) Effect of Bulletin on:

- (a) Operation

Not affected.



(b) Maintenance

Not affected.

(c) Overhaul

Not affected.

(d) Repair Schemes

Not affected.

(e) Interchangeability

Not affected.

(f) Fits and Clearances

Not affected.

D. Description

- (1) This Service Bulletin covers the fitment to engines of an OQT supplied by Meggitt Avionics Inc. incorporating design changes to prevent false or fluctuating aircraft cockpit readings.
- (2) A revised OQT is introduced similar to the existing unit except for the following changes:
 - (a) The existing three PCB turret terminals have been replaced with direct electrical wire connection feed through holes.
 - (b) A revised reservoir wire header is introduced with flattened and pierced contacts on both sides to allow for the incorporation of strain relieving sleeves.
- (3) Existing units may be reworked. Refer to vendor Service Bulletin.
- (4) Units incorporating this Service Bulletin (Modification) will be identified by a new type number (see 2.A Material Information).

E. Compliance

Category Code 7

Accomplish when supply of superseded parts has been depleted.



F. Approval

The part number changes and/or part modifications 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 models listed.

G. Manpower

In service

Not affected.

At overhaul

Not affected.

NOTE: The parts affected by this Service Bulletin are accessible at overhaul.

H. Material Price and Availability

Modification kit not required; parts supplied as single line items.

I. Tooling Price and Availability

Special tools are not required.

J. Industry Support Information

None.

K. Weight and Balance

(1) Weight Change

None.

(2) Moment Arm

No effect.

(3) Datum

Engine Front Mount Centreline (Power Plant Station - PPS 100).

L. Electrical Load Data

The aircraft electrical load is not affected by this Service Bulletin.

M. Software Accomplishment Summary

Not applicable.



N. References

- (1) Engine Manual, 72-00-60, Removal and Installation.
- (2) Aircraft Maintenance Manual, 79-31-02, Removal/Installation.
- (3) Meggitt Avionics Inc. Service Bulletin 79-31-17-01.
- (4) Internal reference 01VI008.
- (5) ATA Locator - 79-31-02.

O. Other Publications Affected

- (1) Illustrated Parts Catalogue (IPC) SV2500-3IA will be revised.

P. Interchangeability of Parts

Not affected.



2. Material Information

A. Prices and availability:

For prices and availability of parts refer to Meggitt Avionics Inc. Service Bulletin 79-31-17-01.

B. Vendor units affected by this bulletin:

Applicability: - For each V2500 engine to incorporate this bulletin

The following type number change is allocated to units embodying this Service Bulletin (Modification):

All Engines

79-31-02

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01100	76-167-5	1	Transmitter, Oil Quantity (VK2510)	-	76-167-3	(A)(S1)(1D)
01130	AS43013-1451		Seal (VU1653)	-	AS43013-145	

C. Instructions disposition codes:

(A) New standard of unit will be made available from April 2002.

(S1) Old and new units are freely and fully interchangeable.

(1D) Old standard of unit may be reworked.



3. Accomplishment Instructions

A. Rework Instructions

Refer to Vendor Service Bulletin, Meggitt Avionics Inc. SB 79-31-17-01.

B. Assembly Instructions

The revised part introduced by this Service Bulletin is interchangeable with existing. Remove and install in accordance with current overhaul procedures and maintenance practices (Engine Manual, 72-00-60, Removal-02 and Removal -09, Installation-03 and Installation-09 and Aircraft Maintenance Manual, 79-31-02, Removal/Installation).

C. Recording Instructions

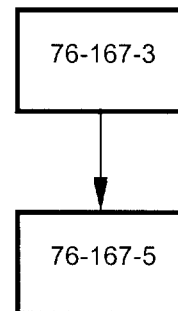
A record of accomplishment is necessary. Refer to vendor Service Bulletin, Meggitt Avionics Inc. SB 79-31-17-01.

**V2500-D5 Oil Quantity Transmitter Family Tree *****Service Bulletin Number****Unit Mod Plate Endorsement****BASELINE**

Meggitt Avionics Inc.

NONE**V2500-ENG-79-0084**

Introduction of a transmitter with revised PCB wire connections and additional strain relieving sleeves

NONE

* This family tree is not intended to represent the combination of modifications fitted to units in service

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V2500-D5 Oil Quantity Transmitter - Family Tree
Fig.1

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