

SERVICE BULLETIN

INFORMATION — INTRODUCTION OF A NEW IDLER GEAR, A NEW BONDING STRAP
AND DELETION OF SOME TRANSPORTATION FITTINGS FOR THE EXTERNAL GEARBOX
MODULE — INTRODUCTION OF A NEW COVER FOR THE OIL PRESSURE PUMP
AND FILTER HOUSING AND THE SCAVENGE OIL PUMP

MODEL APPLICATION

V2500-A1, V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5,
V2533-A5, V2525-D5, V2528-D5

BULLETIN ISSUE SEQUENCE

V2500 Series 70-0992

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72-60-00

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Compliance Category

7

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Summary

See Reason.

Planning Information

Effectivity Data

Engine Models Applicable

V2500-A1

Engine Serial Nos. V0001 thru V0361

V2522-A5, V2524-A5, V2527M-A5, V2527-A5, V2527E-A5, V2530-A5, V2533-A5 (A5 Standard) that HAVE NOT incorporated Reference 6, Service Bulletin V2500-ENG-72-0565 Engines from Serial Nos. V10001 thru V13190

V2522-A5, V2524-A5, V2527M-A5, V2527-A5, V2527E-A5, V2530-A5, V2533-A5 that HAVE incorporated Reference 6, Service Bulletin V2500-ENG-72-0565 Engines from Serial Nos. V10001 thru V13190

V2522-A5, V2524-A5, V2527M-A5, V2527-A5, V2527E-A5, V2530-A5, V2533-A5 Engines from Serial Nos. V15001 thru V16311

Engines with Serial No. V16315, V16320, V16362, V16411

V2525-D5, V2528-D5

Engine Serial Nos. V20001 thru V20285

Concurrent Requirements

There are no concurrent requirements.

Reason

1. A design review was completed on components in the external gearbox, the oil pressure pump, the oil scavenge pump and transportation fittings to improve manufacture, eliminate superfluous parts and simplify shop maintenance activity. There is no impact on interchangeability between old and new parts. See below for the listing of affected components.
 - A. A new idler gear for the gearbox.
 - B. A new bonding strap.
 - C. Change and deletion of some engine transportation fittings.
 - D. A new cover for the oil pressure pump and filter housing.
 - E. A new cover for the scavenge oil pump.

Description

Introduction of a new idler gear, a new bonding strap and deletion of some transportation fittings for the external gearbox module. Introduction of a new cover for the oil pressure pump and filter housing and the scavenge oil pump.

Compliance

Category 7

Accomplish when supply of superseded parts has been depleted.

Approval Data

The part number changes and/or part modifications specified in the Accomplishment Instructions and Material Information sections of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine model(s) given.

Manpower

1. In Service
..... Not Applicable.
2. At Overhaul
..... Not Applicable.

Weight and Balance

1. Weight Change
+0.114 lb (+0.05 kg)
2. Moment Arm
No Effect.
3. Datum
Engine Front Mount Centerline (Power Plant Station (PPS) 100)

Electrical Load Data

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

Software Accomplishment Summary

Not Applicable.

References

1. ATA Locator — 72-00-60, 72-60-03, 72-60-27, 72-61-00, 79-21-41, 79-22-41.
2. V2500 Engine Manual (E-V2500-1IA), Chapter/Section 72-00-60 and 72-60-27.
3. V2500 Engine Manual (E-V2500-3IA), Chapter/Section 72-00-60 and 72-60-27.
4. V2500 Component Maintenance Manual (MECH-V2500-1IA), Chapter/Section 79-21-41 and 79-22-41.
5. V2500 Component Maintenance Manual (MECH-V2500-3IA), Chapter/Section 79-21-41 and 79-22-41.
6. IAE V2500 Service Bulletin V2500-ENG-72-0565 (Engine — Provide The Requirements For Modification To The V2500 SelectOne™ Retrofit Standard).

Other Publications Affected

1. For effects on Illustrated Parts Catalog (IPC), refer to Material Information Section.
2. V2500 Engine Manual (E-V2500-1IA), Chapter/Section 72-00-60 and 72-60-27.
3. V2500 Engine Manual (E-V2500-3IA), Chapter/Section 72-00-60 and 72-60-27.

4. V2500 Component Maintenance Manual (MECH-V2500-1IA), Chapter/Section 79-21-41 and 79-22-41.
5. V2500 Component Maintenance Manual (MECH-V2500-3IA), Chapter/Section 79-21-41 and 79-22-41.
6. The following Repair Schemes will be revised to include the new parts introduced by this Service Bulletin:
VRS5157, VRS5158, VRS5159, VRS5160, VRS5301, VRS5302, VRS5303, VRS5304, VRS5348, VRS5349, VRS5351.

Interchangeability of Parts

Old and new parts are directly interchangeable.

Information in the Appendix

Alternate Accomplishment Instructions (No)

Progression Charts (No)

Added Data (Yes)

Revision to Table of Limits (No)

Inspection Procedures (No)

Material Information

Material — Price and Availability

1. There is no kit provided to do this Service Bulletin.
2. Part availability information is provided in material data Instructions — Disposition.

Industry Support Program

Not Applicable.

The material data that follows is for each engine.

For V2500-A1, V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5 Engines:

New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
4T0229	2	\$257.00	.STRAP, BONDING	4T0229 (72-00-60 01-162)	(A)(S1)
			OR		
4T0320	Ref	*	STRAP, BONDING		(B)
4G0152	1	\$93.20	PLUG, .5625-18 UNJ THREAD	MS9954-06 (72-60-03 01-272)	(A)(S1)(S2)
4G0152	1	\$93.20	PLUG, .5625-18 UNJ THREAD	MS9954-06 (72-60-03 01-276)	(A)(S1)(S2)
4G0152	1	\$93.20	PLUG, .5625-18 UNJ THREAD	MS9954-06 (72-60-03 01-280)	(A)(S1)(S2)
4G0152	1	\$93.20	PLUG, .5625-18 UNJ THREAD	MS9954-06 (72-60-03 01-284)	(A)(S1)(S2)
4G0150	1	\$119.00	PLUG, .8125-16 UNJ THREAD	MS9954-09 (72-60-03 01-510)	(A)(S1)(S2)
4G0150	1	\$119.00	PLUG, .8125-16 UNJ THREAD	MS9954-09 (72-60-03 01-860)	(A)(S1)(S2)
4G0150	1	\$119.00	PLUG, .8125-16 UNJ THREAD	MS9954-09 (72-60-03 01-910)	(A)(S1)(S2)
4G0150	1	\$119.00	PLUG, .8125-16 UNJ THREAD	MS9954-09 (72-60-03 01-970)	(A)(S1)(S2)
4B0182	1	\$7654.00	.GEAR, IDLER	4B0182 (72-60-27 01-140)	(A)(S1)
			OR		
4P0336	Ref	*	.GEAR, IDLER		(B)
4T0560	1	\$2158.00	..COVER, OIL FILTER	4P7189 (79-21-41 01-340)	(A)(S1)

New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
			OR		
4P7189	Ref	*	..COVER, OIL FILTER		(B)
			OR		
4P7386	Ref	*	..COVER, OIL FILTER		(B)
4T0562	1	\$4083.00	.COVER, A/O	4B7347 (79-22-41 01-330)	(A)(S1)
			OR		
4B7347	Ref	*	.COVER, A/O		(B)
			OR		
4B7389	Ref	*	.COVER, A/O		(B)
Redundant Parts					
	1		.PACKING	AS3208-06 (72-60-03 01-270)	
	1		.PACKING	AS3208-06 (72-60-03 01-274)	
	1		.PACKING	AS3208-06 (72-60-03 01-278)	
	1		.PACKING	AS3208-06 (72-60-03 01-282)	
	1		.PACKING	AS3208-09 (72-60-03 01-500)	
	1		.PACKING	AS3208-09 (72-60-03 01-858)	
	1		.PACKING	AS3208-09 (72-60-03 01-900)	
	1		.PACKING	AS3208-09 (72-60-03 01-960)	

The material data that follows is for each engine.

For V2525-D5, V2528-D5 Engines:

New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
4T0229	1	\$257.00	.STRAP, BONDING	4T0229 (72-00-60 01-162)	(A)(S1)
			OR		

New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
4T0320	Ref	*	.STRAP, BONDING		(B)
4T0560	1	\$2158.00	..COVER, OIL FILTER	4P7189 (79-21-41 01-340)	(A)(S1)
			OR		
4P7189	Ref	*	..COVER, OIL FILTER		(B)
			OR		
4P7386	Ref	*	..COVER, OIL FILTER		(B)
4T0562	1	\$4083.00	.COVER, A/O	4B7347 (79-22-41 01-330)	(A)(S1)
			OR		
4B7347	Ref	*	.COVER, A/O		(B)
			OR		
4B7389	Ref	*	.COVER, A/O		(B)

Instructions/Disposition Code Statements:

Parts Modification Conditions

Estimated part prices are provided when they are available at time of publication. The Estimate of Unit Price is only for planning purposes and does not constitute a firm quotation. An asterisk (*) is shown where part pricing information was unavailable. In either case, contact IAE Spares for firm quotations.

Spare Parts Availability

- (A) The new part will be available approximately May, 2014.
- (B) Alternative part.
- (S1) Old and new parts are fully interchangeable.
- (S2) The new parts coded (S2) must not be fitted for engine test.

Vendor Services or Special Components/Materials

Not Applicable.

Tooling — Price and Availability

Special tools are not required to accomplish this Service Bulletin.

Reidentified Parts

Not Applicable.

Other Material Information Data

Not Applicable.

Accomplishment Instructions

1. Rework Instructions
 - A. None
2. Assembly Instructions
 - A. None
3. Recording Instructions
 - A. A record of accomplishment is not required.

Appendix

Added Data

Internal Reference Information

Revision No.	Reference Document	Origination
Original	EC10VF001 EC10VF001-01 EC10VF001-02 EC10VF003 EC10VF003-01 EC10VF003-02 EC10VF004 EC10VF004-01 EC10VF004-02	TP/IEL