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V2500-A1/A5 SERIES PROPULSION SYSTEMS SERVICE BULLETIN

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This document transmits the Initial Issue of Service Bulletin EV2500-71-0289 and the Initial Issue of the Supplement

Bulletin Initial Issue

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Supplement Initial Issue

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POWER PLANT – ELECTRICAL HARNESSSES – LIGHT DUTY – EGT HARNESSSES – INTRODUCTION OF
REVISED CLIPS

1. Planning Information

A. Effectivity

(1) Airbus A319

(a) V2522-A5, V2524-A5, V2527M-A5 Engines prior to Serial No.V11700

(2) Airbus A320

(a) V2500-A1 Engines prior to Serial No.V0362

(b) V2527-A5, V2527E-A5 Engines prior to Serial No.V11700

(3) Airbus A321

(a) V2530-A5, V2533-A5 Engines prior to Serial No.V11700

B. Concurrent Requirements

None.

C. Reason

(1) Problem

Premature deterioration of the cushioning material on the clips attaching the EGT Harness may occur which can lead to fretting of the harness and cause electrical check failures.

The problem is attributed to insufficient temperature capability of the binding agent contained in the cushioning material.

(2) Evidence

The problem has been observed on engines in service.

(3) Substantiation

The changes introduced by this Service Bulletin have been the subject of satisfactory engineering analysis. The series of clip introduced by this change has been successfully used on D5 engines with no specific history of harness failure due to clip fretting.



(4) Objective

Incorporation of this Service Bulletin is designed to maintain reliability.

(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 introduces a revised clip series with a higher temperature capability at all attaching positions for the EGT harness. The opportunity has been taken to introduce this revised clip in other high temperature positions.

The changes introduced are:

- (a) A revised standard of clip is introduced similar to the existing series, except for the binding material in the cushion of the clip is changed from a loaded aluminium metal pigment to silicon.

E. Compliance

Category Code 6

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



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

(1) In service

Not affected.

(2) At overhaul

Not affected.

H. Material Price and Availability

(1) Modification kit is not required; parts supplied as single line items.

(2) For parts prices and availability refer to supplement to this bulletin.

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 PPS100).

L. Electrical Load Data

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

M. Software Accomplishment Summary

Not applicable.



N. References

(1) IAE V2500 Service Bulletins:

(a) ENG-75-0081

Air - Stage 10 To HP Air Valve - Deletion Of The HPC Stage 10 Make-up Air Valve And Associated Air Valve.

(b) ENG-79-0087

Oil - Scavenge Oil - Tubes Re-route Of Number 4 Bearing Scavenge Tube.

(c) ENG-72-0189

Engine - Core Engine - Tubes - Tube Assemblies Coupled To Bifucation Panel - Re-run to Increase Clearance With C-Duct Hold Open Rods.

(d) ENG-79-0088

Oil - Scavenge Oil Tubes - Re-route Of Number 4 Bearing Scavenge Tube.

(e) ENG-75-0049

Oil - Bearing Compartment Cooling HPC Air Bleed Tubes - Additional Clipping For Core Tubes - Servo Air To Handling Bleed Solenoid Valves.

(2) Engine Manual, Chapter/Section 72-00-40 and 72-00-50, Removal/Installation.

(3) Aircraft Maintenance Manual, Chapter/Section 71-52-45, Removal/Installation.

(4) Engineering Change No. - 03VR016.

(5) ATA Locator - 71-52-00.

O. Other Publications Affected

(1) Illustrated Parts Catalogue (IPC) Chapter/Section 71-52-44, 71-52-45, 75-22-49 and 75-32-49 will be revised.

P. Interchangeability of Parts

Not affected.

**2. Material Information****A. Parts required to accomplish this Service Bulletin:**

71-52-44

A5 Engines

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01073	TA025022 -04	1	.Clamp, Loop Style, Cushion- (6,35 mm (0.250))(CP5554)		TA02100 46FT04 or ST1455-04	(A)(S1)

A5 Engines Not Incorporating ENG-75-0081 and A1 Engines

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01073	TA025022 -07	1	.Clamp, Loop Style, Cushion- (11,13 mm (0.438))(CP5554)		TA02100 46FT07 or ST1455-07	(A)(S1)

A5 Engines

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01105	TA025022 -04	1	.Clamp, Loop Style, Cushion- (6,35 mm (0.250))(CP5739)		TA02100 46FT04 or ST1455-04	(A)(S1)

A5 Engines Not Incorporating ENG-75-0081 and A1 Engines

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01105	TA025022 -07	1	.Clamp, Loop Style, Cushion- (11,13 mm (0.438))(CP5739)		TA02100 46FT07 or ST1455-07	(A)(S1)

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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01113	TA025022 -05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP5788)		TA02100 46FT05 or ST1455-05	(A)(S1)

All Engines

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01114	TA025022 -04	1	.Clamp, Loop Style, Cushion- (6,35 mm (0.250))(CP5788)		TA02100 46FT04 or ST1455-04	(A)(S1)

A5 Engines Not Incorporating ENG-75-0081 and A1 Engines

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01121	TA025022 -04	1	.Clamp, Loop Style, Cushion- (6,35 mm (0.250))(CP5789)		TA02100 46FT04 or ST1455-04	(A)(S1)

All Engines

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01129	TA025022 -04	1	.Clamp, Loop Style, Cushion- (6,35 mm (0.250))(CP5789)		TA02100 46FT04 or ST1455-04	(A)(S1)
01137	TA025022 -04	1	.Clamp, Loop Style, Cushion- (6,35 mm (0.250))(CP5791)		TA02100 46FT04 or ST1455-04	(A)(S1)



71-52-45

All Engines

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01041	TA025022-05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP5211)		TA02100 46FT05 or ST1455-05	(A)(S1)
01073	TA025022-05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP5527)		TA02100 46FT05 or ST1455-05	(A)(S1)
01081	TA025022-05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP5529)		TA02100 46FT05 or ST1455-05	(A)(S1)
01121	TA025022-05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP5549)		TA02100 46FT05 or ST1455-05	(A)(S1)
01129	TA025022-05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP5550)		TA02100 46FT05 or ST1455-05	(A)(S1)
01137	TA025022-05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP5551)		TA02100 46FT05 or ST1455-05	(A)(S1)
01145	TA025022-05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP5552)		TA02100 46FT05 or ST1455-05	(A)(S1)
01153	TA025022-05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP5553)		TA02100 46FT05 or ST1455-05	(A)(S1)
01169	TA025022-07	1	.Clamp, Loop Style, Cushion- (11,13 mm (0.438))(CP5734)		TA02100 46FT07 or ST1455-07	(A)(S1)



A1 Engines Not Incorporating ENG-79-0087 and A5 Engines (Except V2533-A5) Not Incorporating ENG-72-0189 or ENG-79-0088 (Mod Part 3).

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01193	TA025022 -05	1	.Clamp, Loop Style, Cushion (7,922 mm (0.312))(CP5781)	-	TA02100 46FT05 or ST1455-05	(A)(S1)

All Engines

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01217	TA025022 -05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP6051)		TA02100 46FT05 or ST1455-05	(A)(S1)
01225	TA025022 -05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP6052)		TA02100 46FT05 or ST1455-05	(A)(S1)
01233	TA025022 -05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP6053)		TA02100 46FT05 or ST1455-05	(A)(S1)
01241	TA025022 -05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP6054)		TA02100 46FT05 or ST1455-05	(A)(S1)
01249	TA025022 -05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP6055)		TA02100 46FT05 or ST1455-05	(A)(S1)
01257	TA025022 -05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP5523)		TA02100 46FT05 or ST1455-05	(A)(S1)
01265	TA025022 -05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP6085)		TA02100 46FT05 or ST1455-05	(A)(S1)
01273	TA025022 -05	1	.Clamp, Loop Style, Cushion- (7,922 mm (0.312))(CP6086)		TA02100 46FT05 or ST1455-05	(A)(S1)

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FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
10120	TA025022 -12	1	.Clamp, Loop Style, Cushion (19,05 mm (0.750))(CP5224)	-	TA02100 46FT12	(A)(S1)

75-32-49

All Engines Incorporating ENG-75-0049 but Not A1 Engines Incorporating
ENG-79-0087 or A5 Engines Incorporating ENG-79-0088.

FIG ITEM NO.	NEW PART NO.	QTY	PART TITLE	MAT	OLD PART NO.	INSTR DISP
01160	TA025022 -08	1	.Clamp, Loop Style, Cushion (12,70 mm(0.500))(CP5723)	-	TA02100 46FT08	(A)(S1)

B. Parts to be reworked:

None.

C. New production parts:

None.

D. Instruction Disposition Codes:

(A) New part is currently available.

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



3. Accomplishment Instructions

A. Rework Instructions

None.

B. Assembly Instructions

For the correct assembly instructions refer to Engine Manual, Chapter/Section 72-00-40 and 72-00-50, Removal/Installation or Aircraft Maintenance Manual, Chapter/Section 71-52-45, Removal/Installation.

C. Recording Instructions

A record of accomplishment is necessary.



POWER PLANT - ELECTRICAL HARNESSSES - LIGHT DUTY - EGT HARNESSSES - INTRODUCTION OF
REVISED CLIPS

SUPPLEMENT - PRICES AND AVAILABILITY

The prices (if shown) are for estimating purposes only and as such are given in good faith, without commercial liability for advanced planning purposes only. Refer to IAE Spares and/or current price catalogue for current prices.

1. Modification Kit:

Not applicable.

2. Parts required:

Part No.	Description	Unit Price US Dollars
TA025022-04	Clamp	18.70
TA025022-05	Clamp	12.80
TA025022-07	Clamp	23.10
TA025022-08	Clamp	16.10
TA025022-12	Clamp	19.90

