

SERVICE BULLETIN REVISION NOTICE

NON-MODIFICATION SERVICE BULLETIN — ENGINE FUEL AND CONTROL — CONTROL,
ELECTRONIC ENGINE (EEC) — DO AN INSPECTION OF THE EEC SERIAL NUMBER FOR
POSSIBLY UNSERVICEABLE CIRCUIT BOARDS WITH A Q854 SOLDER ISSUE

Turbojet Engine Service Bulletin No. V2500-ENG-73-0254 Revision No. 1 dated March 15, 2021.

Revision History

Original Issue August 18, 2020

Revision 1 dated March 15, 2021

Reason for the Revision

To update Engine Serial Numbers to “All Engines” in the Engine Models Applicable section.

To update the year “2020” to “2021” in the Compliance section.

To remove “PN 2A4610 (824972-11-026)” in the Vendor Services or Special Components/Material section.

To update the Supplier Service Bulletin to “Collins SB EEC 150-40-73-40”.

Effect of Revision on Prior Compliance

None.

This is a Complete Revision (Not Applicable to the SGML version)

The format of this Service Bulletin has been changed from previous versions. This revision shows flow bars and the revision date on the bottom of every page. Technical changes incorporated in this revision are marked with revision bars. The contents are in accordance with the list of effective pages.

MODEL APPLICATION

V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5

BULLETIN ISSUE SEQUENCE

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A copy of this Revision Notice and any future revision notices must be filed as a permanent record with your copy of the subject bulletin.

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MODEL APPLICATION

V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5

BULLETIN ISSUE SEQUENCE

V2500 Series 73-0254

ATA NUMBER

73-22-34

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Supplier Service Bulletin

Collins Service Bulletin EEC150-40-73-40.

Compliance Category

3

IAE Distribution Code

V2500

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Summary

The purpose of this Non-Modification Service Bulletin (NMSB) is to do an inspection of the Electronic Engine Control (EEC) (specified by serial number) for possibly unserviceable circuit boards with a Q854 transistor solder issue. If a possibly unserviceable EEC is identified, return it to the vendor specified in the Vendor Services or Special Components/Materials section.

Planning Information

Effectivity Data

Engine Models Applicable

V2522-A5, V2524-A5, V2527M-A5, V2527-A5, V2527E-A5, V2530-A5, V2533-A5
Engine Serial No. – All Engines

Concurrent Requirements

There are no concurrent requirements.

Reason

1. Condition: An engine In Flight Shut Down (IFSD) occurred because of an unserviceable EEC.
2. Background: The unserviceable EEC that was part of the IFSD was found to not have a sufficient solder on the Q854 transistor for channels A and B. The solder failure resulted in a loss of fuel flow (WF) input in channels A and B. Fuel flow was decreased to minimum flow, by design, which resulted in the IFSD.
3. Objective: Do an inspection of the EEC for a serial number identified in Table 1, if found return to the vendor identified in the Vendor Services or Special Components/Materials section.
4. Substantiation: It was identified that the solder condition on the EEC Q854 transistor, which caused the IFSD, occurred at production. The soldering stencil was not sufficiently cleaned, which was found to be the root cause. The population of EEC circuit boards manufactured with this stencil was identified and the EEC's with these boards were also identified. No other units were affected.
5. Effects of Bulletin on:
Removal/Installation: Not Affected.
Disassembly/Assembly: Not Affected.
Cleaning: Not Affected.
Inspection/Check: Not Affected.
Repair: Not Affected.
Testing: Not Affected.
6. Supplemental Information
None.

Description

Do an inspection for a possibly unserviceable EEC.

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Compliance

Category 3

Do by December 31, 2021.

Approval Data

The compliance statement and the procedures described in this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine model listed.

The aircraft Type Certificate (TC) holder has been informed of this inspection.

Manpower

1. In Service
 - A. To Gain/Close Access 0.2 hours.
 - B. To Remove and Install the EEC 1.0 hour.
 - C. Total Necessary Man-hours 1.2 hours.
2. At Overhaul
..... Not Applicable.

Weight and Balance

1. Weight Change
None.
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

NOTE: In 2014 IAE converted the V2500 Technical Publications to a new system. As a result of the conversion, some manuals were consolidated. All manuals received new P&W part numbers. To facilitate the use of this Service Bulletin, a Technical Publications conversion table is provided in the Appendix.

1. V2500 Standard Practices and Processes, P&W Ref. PN 2A4414.
2. V2500-A5 Series Illustrated Parts Catalog, P&W Ref. PN 2A4428.
3. Airbus A319/A320/A321 Aircraft Maintenance Manual (AMM).
4. Collins Aerospace Service Bulletin No. EEC150-40-73-40.

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Other Publications Affected

NOTE: In 2014 IAE converted the V2500 Technical Publications to a new system. As a result of the conversion, some manuals were consolidated. All manuals received new P&W part numbers. To facilitate the use of this Service Bulletin, a Technical Publications conversion table is provided in the Appendix.

1. V2500-A5 Series Illustrated Parts Catalog, P&W Ref. PN 2A4428.
73-22-34, Figure 1

Interchangeability of Parts

Not Applicable.

Information in the Appendix

Alternate Accomplishment Instructions (No)

Progression Charts (No)

Added Data (Yes)

Revision to Table of Limits (No)

Inspection Procedures (No)

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Material Information

Material — Price and Availability

1. Part prices were not available at the time of Service Bulletin publication. Contact IAE Spares Management & Logistics for firm quotations.
2. There is no kit provided to do this Service Bulletin.
3. 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 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
	1	*	CONTROL — ELECTRONIC ENGINE	2A4611 (73-22-34-01-280DF)	(4)(X)
	1	*	CONTROL — ELECTRONIC ENGINE	2A4612 (73-22-34-01-280DH)	(4)(X)
	1	*	CONTROL — ELECTRONIC ENGINE	2A4613 (73-22-34-01-280DJ)	(4)(X)
	1	*	CONTROL — ELECTRONIC ENGINE	2A4614 (73-22-34-01-280DL)	(4)(X)
	1	*	CONTROL — ELECTRONIC ENGINE	2A4615 (73-22-34-01-280DN)	(4)(X)
	1	*	CONTROL — ELECTRONIC ENGINE	2A4616 (73-22-34-01-280DP)	(4)(X)
	1	*	CONTROL — ELECTRONIC ENGINE	2A4610 (73-22-34-01-280DR)	(4)(X)
	1	*	CONTROL — ELECTRONIC ENGINE	2A4617 (73-22-34-01-280DT)	(4)(X)
	1	*	CONTROL — ELECTRONIC ENGINE	2A4618 (73-22-34-01-280DV)	(4)(X)

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Modification and Spares Information

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.

(4) Do an inspection as specified in the Accomplishment Instructions.

Spare Parts Availability

(X) See Reference 2, Illustrated Parts Catalog for applicable part replacement parts.

Vendor Services or Special Components/Materials

Vendor Services or Special Components/Materials

P&W Designation	Vendor Designation	Name	Vendor Name & Address
2A4611	824972-2-026	Control — Electronic Engine	Collins Aerospace One Hamilton Road Dock W Windsor Locks, CT 06096-1010 U.S.A.
2A4612	824972-3-026	Control — Electronic Engine	
2A4613	824972-4-026	Control — Electronic Engine	
2A4614	824972-5-026	Control — Electronic Engine	
2A4615	824972-7-026	Control — Electronic Engine	
2A4616	824972-9-026	Control — Electronic Engine	
2A4617	808050-4-072	Control — Electronic Engine	
2A4618	808050-5-072	Control — Electronic Engine	
	EEC150-40-73-40	Service Bulletin	
FAA Repair License Number: SI3R842L			
Vendor Manufacturer's Code: 73030 See Illustrated Parts Catalog Vendor Manufacturer's Code List			

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Tooling — Price and Availability

Special tools are not required to accomplish this Service Bulletin.

Reidentified Parts

Not Applicable.

Other Material Information Data

Not Applicable.

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Accomplishment Instructions

For Engines Installed On Aircraft

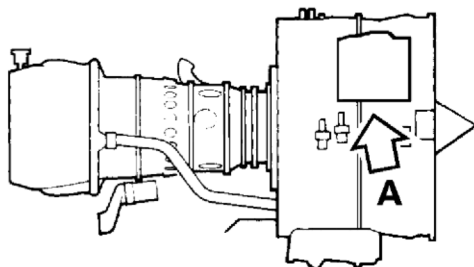
WARNING: BE CAREFUL WHEN YOU WORK ON THE ENGINE AFTER SHUTDOWN. THE ENGINE CAN STAY HOT FOR A LONG PERIOD OF TIME. IF YOU DO NOT OBEY THIS WARNING, INJURY CAN OCCUR.

1. Open the fan cowl doors as specified in Reference 3, AMM, Chapter/Section 71-13-00.
2. Do an inspection of the EEC serial number. See Figure 1.
3. If the EEC serial number is identified in Table 1, replace the EEC as follows.
 - A. Remove the possibly unserviceable EEC as specified in Reference 3, AMM, Chapter/Section 73-21-34, and return it to the vendor specified in the Vendor Services or Special Components/Materials section.
 - B. Install a serviceable EEC as specified in Reference 3, AMM, Chapter/Section 73-21-34.

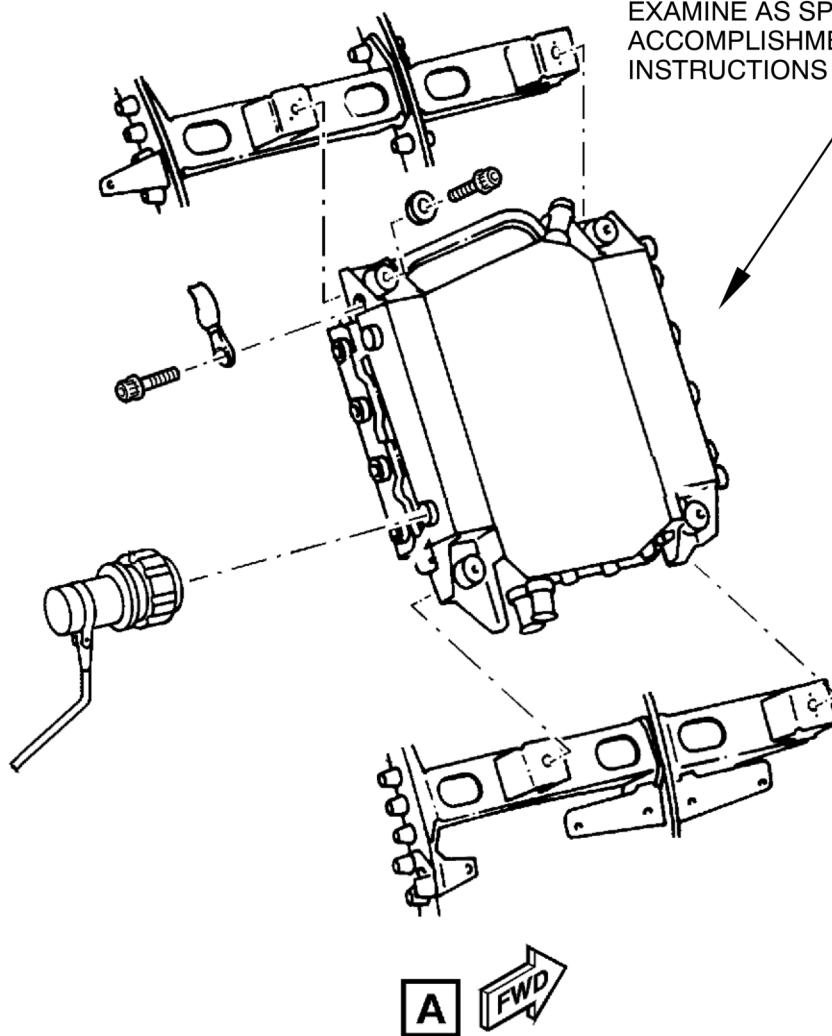
TABLE 1: Possibly Unserviceable EEC Serial Numbers

Serial Number	Serial Number	Serial Number	Serial Number	Serial Number
2540-7255	2540-7256	2540-7257	2540-7258	2540-7259
2540-7264	2540-7274	2540-7275	2540-7280	2540-7283
2540-7284	2540-7289	2540-7291	2540-7312	2540-7313
2540-7323	2540-7345	2540-7348	2540-7350	2540-7358
2540-7360	2540-7361	2540-7375	2540-7376	2540-7377
2540-7379	2540-7380	2540-7381	2540-7397	2540-7424
2540-7431				

4. Close the fan cowl doors as specified in Reference 3, AMM, Chapter/Section 71-13-00.
5. Recording Instructions
 - A. A record of accomplishment is necessary.



2A4610, 2A4611, 2A4612,
2A4613, 2A4614, 2A4615,
2A4616, 2A4617, AND 2A4618
ELECTRONIC ENGINE CONTROL
EXAMINE AS SPECIFIED IN THE
ACCOMPLISHMENT
INSTRUCTIONS



B529660

LOCATION OF THE EEC
73-22-34
FIGURE 1

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Appendix

Added Data

Internal Reference Information

Revision No.	Reference Document	Origination
Original	EA20VC153	DH/RCM
1	EA20VC256	DH/SG

Number values shown in parentheses adjacent to U.S. values are International System of units (SI) equivalents.

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Technical Publications Cross Reference Table

Publication	Engine Model(s)	IAE IETM Pub Ref	P&W Part Number
ENGINE MANUAL — A1, A5	All	E-V2500-1IA	2A4407
CMM-EHC — A1, A5	All	EHC-V2500-1IA	2A4409
CMM-FN — A1, A5	All	FN-V2500-1IA	2A4410
CMM-MMC — A1, A5	All	MECH-V2500-1IA	2A4411
CMM-THD — A1, A5	All	THD-V2500-1IA	2A4412
TLM — A1, A5	All	T-V2500-1IA	2A4408
SPPM (SPM) — A1, A5, D5	All	SPP-V2500-1IA	2A4414

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Publication	Engine Model(s)	IAE IETM Pub Ref	P&W Part Number
EIPC — A5	V2522/V2524/V2527M-AQ02	S-V2500-6IA	2A4428
	V2522/V2524/V2527M-AQ03	S-V2500-6IB	
	V2522/V2524/V2527M-SQ02	S-V2500-6SA	
	V2522/V2524/V2527M-SQ03	S-V2500-6SB	
	V2522/V2524/V2527M-SQ04	S-V2500-6NA	
	V2522/V2524/V2527M-SQ05	S-V2500-6NB	
	V2527/V2527E-AQ02	S-V2500-7IA	
	V2527/V2527E-AQ03	S-V2500-7IB	
	V2527/V2527E-SQ02	S-V2500-7SA	
	V2527/V2527E-SQ03	S-V2500-7SB	
	V2527/V2527E-SQ04	S-V2500-7NA	
	V2527/V2527E-SQ05	S-V2500-7NB	
	V2530-AQ02	S-V2500-2IA	
	V2530-AQ03	S-V2500-2IB	
	V2530-SQ02	S-V2500-2SA	
	V2530-SQ03	S-V2500-2SB	
	V2530-SQ04	S-V2500-2NA	
	V2530-SQ05	S-V2500-2NB	
	V2533-AQ02	S-V2500-5IA	
	V2533-AQ03	S-V2500-5IB	
	V2533-SQ02	S-V2500-5SA	
	V2533-SQ03	S-V2500-5SB	
	V2533-SQ04	S-V2500-5NA	
	V2533-SQ05	S-V2500-5NB	

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