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V2500-A1/A5/D5 SERIES PROPULSION SYSTEM SERVICE BULLETIN

Printed in Great Britain

This document transmits Revision 1 to Service Bulletin V2500-ENG-70-0832 and Revision 1 of the Supplement

Document History

Service Bulletin Revision Status
Initial Issue Feb.11/05

Service Bulletin Revision 1

Remove	Incorporate	Reason for change
All pages of the Service Bulletin	Pages 1 to 11 of the Service Bulletin	To add the V2525-D5 and V2528-D5 engine model applicability.
All pages of the Appendix	Pages 1 and 8 of the Appendix	To add the V2525-D5 and V2528-D5 engine model applicability.
All pages of the Supplement	Page 1 of the Supplement	To add the V2525-D5 and V2528-D5 engine model applicability.

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Transmittal - Page 1 of 1

CHECK THAT ALL PREVIOUS TRANSMITTALS HAVE BEEN INCORPORATED

If any have not been received please advise Customer Data Services, Rolls-Royce plc, Derby, England

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INFORMATION – ELECTRONIC ENGINE CONTROL (EEC) – FLAME SHIELD REMOVAL FOR EEC150-1 AND
EEC150-20

1. Planning Information

A. Effectivity

- (1) Airbus A319
 - (a) V2522-A5, V2524-A5, V2527M-A5 Engines.
- (2) Airbus A320
 - (a) V2500-A1 Engine Serial Nos. V0001 thru V0361.
 - (b) V2527-A5, V2527E-A5 Engines.
- (3) Airbus A321
 - (a) V2530-A5, V2533-A5 Engines.
- R (4) Boeing MD-90
 - R (a) V2525-D5, V2528-D5 Engines.

B. Concurrent Requirements

There are no concurrent requirements.

C. Reason

- (1) Problem: On the Listed Electronic Engine Control (EEC) source control drawings, advance the vendor drawing revision letter to reflect a supplier change in which the flame shields are being removed from the EEC's.
- (2) Evidence: The flame shields have a tendency to crack, and the repair and/or replacement of the shields has become a financial burden to airline customers. The EEC's have demonstrated successful operation without the flame shields during fire test.
- (3) Objective: Provide EEC's without flame shields to reduce the financial burden to airline customers.
- (4) Substantiation: The 2 EEC'S affected are EEC150-1 and EEC150-20. A fire test was performed to demonstrate the fire resistance of the EEC without the Flame Shield.
- (5) Effects of Bulletin on:

Removal/Installation: None.

Disassembly/Assembly: None.

Cleaning: None.

Inspection/Check: None.

Repair: None.

Testing: None.

(6) Supplemental Information

None.

D. Description

Provide an EEC with flameshields removed.

E. Compliance

Category code 8

R Accomplish based upon experience with the prior configuration.

F. 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.

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.

G. Manpower

(1) In Service

Not Applicable.

(2) At Overhaul

Not Applicable.

H. Weight and Balance

(1) Weight Change

- 1.4 Pounds

(2) Moment Arm

No Effect.

(3) Datum

Engine Front Mount Centerline (Power Plant Station (PPS) 100)

I. Electrical Load Data

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

J. Software Accomplishment Summary

Not Applicable.

K. References

1. IAE V2500 Service Bulletin V2500-ENG-73-0141 (Engine - Fuel And Control - To Provide A New A1SCN14/R Electronic Engine Control (EEC) Software).
2. IAE V2500 Service Bulletin V2500-ENG-73-0169 (Engine - Fuel And Control - To Provide A New A5SCN15/T Electronic Engine Control (EEC)).
3. IAE V2500 Service Bulletin V2500-ENG-73-0170 (Engine - Fuel And Control - To Provide A New A5 SCN16/U Electronic Engine Control (EEC)).
4. IAE V2500 Service Bulletin V2500-ENG-73-0184 (Engine - Fuel and Control - To Provide A New Electronic Engine Control (EEC) With A5 SCN17/V Software).
5. IAE V2500 Service Bulletin V2500-ENG-73-0186 (Engine - Fuel and Control - EEC150-1/EEC150-20 Pressure Burner Sensor Port Screen Deletion (Controlled Service Use Only)).
6. IAE V2500 Service Bulletin V2500-ENG-73-0189 (Engine - Fuel and Control - To Provide A New Electronic Engine Control (EEC) With A5 SCN18/W Software).
- R 7. IAE V2500 Service Bulletin V2500-ENG-73-0100 (Engine - Fuel and Control - To
R Provide a New Electronic Engine Control (EEC) With The D5 SCN12 Software
R Configuration).
- R 8. IAE V2500 Service Bulletin V2500-ENG-73-0129 (Engine - Fuel And Control - To
R Provide A New Electronic Engine Control (EEC) With The D5 SCN13/N Software
R Configuration).
- R 9. IAE V2500 Service Bulletin V2500-ENG-73-0190 (Engine - Fuel and Control - To
R Provide A New Electronic Engine Control (EEC) With D5 SCN14/O Software).
10. Hamilton Sundstrand Service Bulletin EEC150-1-73-36 (Engine Fuel And Control - EEC150-1 Electronic Engine Control - Removal Of Flame Shields).

11. Hamilton Sundstrand Service Bulletin EEC150-20-73-29 (Engine Fuel And Control - EEC150-20 Electronic Engine Control - Removal Of Flame Shields.
- R 12. V2500 Engine Illustrated Parts Catalogs (S-V2500-1IA, S-V2500-2IA, S-V2500-2IB, S-V2500-3IA, S-V2500-3IB, S-V2500-5IA, S-V2500-5IB, S-V2500-6IA, S-V2500-6IB, S-V2500-7IA, and S-V2500-7IB), Chapter/Section 73-22-34.
13. V2500 Engine Manual (E-V2500-1IA), Chapter/Section 73-22-34.
- R 14. V2500 Engine Manual (E-V2500-3IA), Chapter/Section 73-22-34.
15. Internal Reference No. - 01VC393.
- R 16. Internal Reference No. - 01VC393B.
17. ATA Locator - 73-22-00.

L. Other Publications Affected

- R 1. V2500 Engine Illustrated Parts Catalogs (S-V2500-1IA, S-V2500-2IA, S-V2500-2IB, S-V2500-3IA, S-V2500-3IB, S-V2500-5IA, S-V2500-5IB,, S-V2500-6IA, S-V2500-6IB, S-V2500-7IA, and S-V2500-7IB), Chapter/Section 73-22-34.
- R 2. V2500 Engine Manuals (E-V2500-1IA and E-V2500-3IA), Chapter/Section 73-22-34 Cleaning, Inspection and Repair, to add the new part.

M. Interchangeability of Parts

Old and new parts are directly interchangeable.

N. Information in the Appendix

Alternate Accomplishment Instructions (No)

Progression Charts (Yes)

Added Data (No)

Revision to Table of Limits (No)

Inspection Procedures (No)

O. General Information

The Material Information section of this Service Bulletin provides the latest information concerning the availability of the affected parts.

Although the part number has not been changed, there is a physical difference in the appearance between the EEC with flame shields verses the EEC without flame shields. See Figure 1.

The removal of the flame shields does not affect performance, see Reason section in this Bulletin for a complete description.

For additional information refer to the Hamilton Sundstrand Service Bulletins References 10 and 11.

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2. Material Information

R A. Material – Price and Availability

R 1. Part prices were not available at the time of Service Bulletin publication.
R Contact IAE's Spare Parts Sales Department for firm quotations.

R 2. Part availability information is provided in material data Instructions –
R Disposition.

R B. Industry Support Program

R Not applicable.

C. The material data that follows is for each engine.

73-22-34

For V2500-A1 Engines:

FIG- ITEM NUMBER	NEW PART NUMBER	QTY	PART TITLE	MAT	OLD PN	INSTR – DISP
01-280	808050-4- 052(2A3417)	1	Electronic Engine Control, EEC150-20 OR	-	808050-4 -052(2A3417)	(V) (1) (M) (N) (I)
01-280	808050-5- 052(2A3902)	1	Electronic Engine Control, EEC150-20 OR	-	808050-5 -052(2A3902)	(V) (1) (M) (N) (I)
01-280	798300-15- 052(2A3418)	1	Electronic Engine Control, EEC150-1 OR	-	798300-15- 052(2A3418)	(V) (1) (M) (N) (I)
01-280	798300-16- 052(2A3419)	1	Electronic Engine Control, EEC150-1 OR	-	798300-16 -052(2A3419)	(V) (1) (M) (N) (I)
01-280	798300-17- 052(2A3420)	1	Electronic Engine Control, EEC150-1 OR	-	798300-17 -052(2A3420)	(V) (1) (M) (N) (I)
01-280	798300-18- 052(2A3422)	1	Electronic Engine Control, EEC150-1 OR	-	798300-18 -052(2A3422)	(V) (1) (M) (N) (I)
01-280	798300-19- 052(2A3905)	1	Electronic Engine Control, EEC150-1 OR	-	798300-19 -052(2A3905)	(V) (1) (M) (N) (I)

OR

FIG- ITEM NUMBER	NEW PART NUMBER	QTY	PART TITLE	MAT	OLD PN	INSTR - DISP
01-280	798300-20- 052(2A3906)	1	Electronic Engine Control, EEC150-1	-	798300-20 -052(2A3906)	(V) (1) (M) (N) (I)
01-280	798300-21- 052(2A3907)	1	OR Electronic Engine Control, EEC150-1	-	798300-21 -052(2A3907)	(V) (1) (M) (N) (I)
01-280	798300-22- 052(2A3908)	1	OR Electronic Engine Control, EEC150-1	-	798300227 -052(2A3908)	(V) (1) (M) (N) (I)

D. The material data that follows is for each engine.

73-22-34

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

FIG- ITEM NUMBER	NEW PART NUMBER	QTY	PART TITLE	MAT	OLD PN	INSTR - DISP
01-280	808050-4- 060(2A3909)	1	Electronic Engine Control, EEC150-20	-	808050-4- 060(2A3909)	(V) (1) (M) (N) (I)
01-280	808050-5- 060(2A3910)	1	OR Electronic Engine Control, EEC150-20	-	808050-5- 060(2A3910)	(V) (1) (M) (N) (I)
01-280	808050-4-0 42(2A3488)	1	OR Electronic Engine Control, EEC150-20	-	808050-4- 042(2A3488)	(V) (1) (M) (N) (I)
01-280	808050-4-044 (2A3505)	1	OR Electronic Engine Control, EEC150-20	-	808050-4- 044(2A3505)	(V) (1) (M) (N) (I)
01-280	808050-4- 056(2A3840)	1	OR Electronic Engine Control, EEC150-20	-	808050-4- 056(2A3840)	(V) (1) (M) (N) (I)
01-280	808050-5- 056(2A3898)	1	OR Electronic Engine Control, EEC150-20	-	808050-5- 056(2A3898)	(V) (1) (M) (N) (I)
01-280	808050-5- 044(2A3899)	1	OR Electronic Engine Control, EEC150-20	-	808050-5- 044(2A3899)	(V) (1) (M) (N) (I)

FIG- NUMBER	ITEM NUMBER	NEW PART NUMBER	QTY	PART TITLE	MAT	OLD PN	INSTR - DISP
01-280		808050-5- 042(2A3901)	1	OR Electronic Engine Control, EEC150-20	-	808050-5- 042(2A3901)	(V) (1) (M) (N) (I)

R E. The material data that follows is for each engine:

R 73-22-34

R For V2525-D5, V2528-D5 Engines:

FIG- NUMBER	ITEM NUMBER	NEW PART NUMBER	QTY	PART TITLE	MAT	OLD PN	INSTR - DISP
01-280		808050-4- 031(2A3268)	1	Electronic Engine Control, EEC150-20	-	808050-4- 031(2A3268)	(V) (1) (M) (N) (I)
01-280		808050-4- 033(2A3356)	1	OR Electronic Engine Control, EEC150-20	-	808050-4- 033(2A3356)	(V) (1) (M) (N) (I)
01-280		808050-4- 035(2A2920)	1	OR Electronic Engine Control, EEC150-20	-	808050-4- 035(2A2920)	(V) (1) (M) (N) (I)
01-280		808050-5-031 (2A3903)	1	OR Electronic Engine Control, EEC150-20	-	808050-5- 031(2A3903)	(V) (1) (M) (N) (I)
01-280		808050-5- 033(2A3904)	1	OR Electronic Engine Control, EEC150-20	-	808050-5- 033(2A3904)	(V) (1) (M) (N) (I)
01-280		808050-5- 035(2A3922)	1	OR Electronic Engine Control, EEC150-20	-	808050-5- 035(2A3922)	(V) (1) (M) (N) (I)

F. Instructions/Disposition Code Statements:**Parts Modification Conditions**

(1) The new part can be obtained by modification of the old part as specified in the Hamilton Sundstrand Service Bulletins. See reference 10 and 11.

Spare Parts Availability

(M) It is possible to get the new part only by modification.

(N) The old part is not available.

(V) This is the Hamilton Sundstrand part number.

Cleaning, Inspection and Repair Information

(I) The cleaning, inspection and repair requirements are the same for the old and new part. The applicable engine manuals will be revised.

G. Tooling – Price and Availability

Special tools are not required to accomplish this Service Bulletin.

H. Reidentified Parts

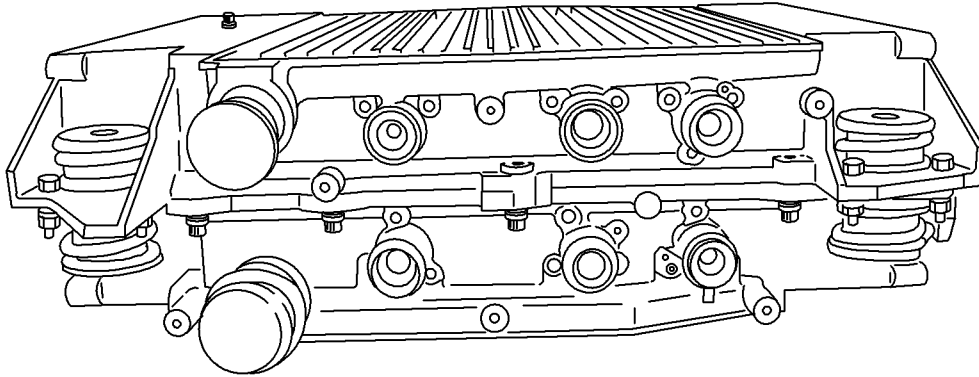
Not Applicable.

I. Other Material Information Data

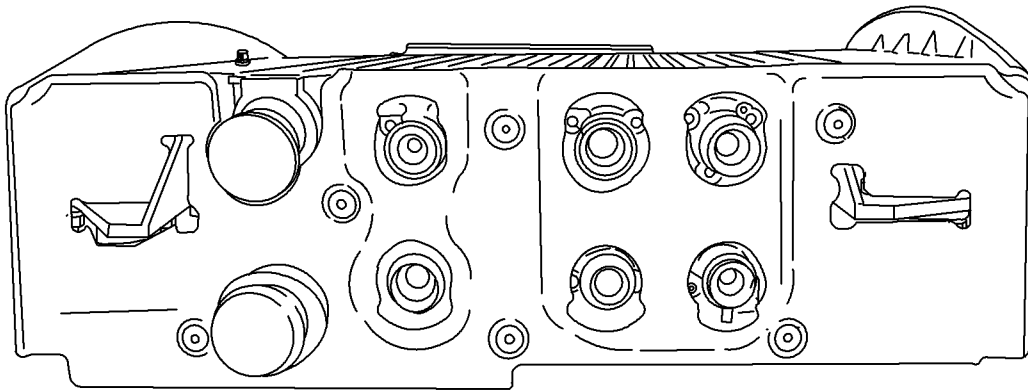
Not Applicable.

3. Accomplishment Instructions

None



Typical EEC Without Flame Shields



Typical EEC With Flame Shields Installed

pw0b513247

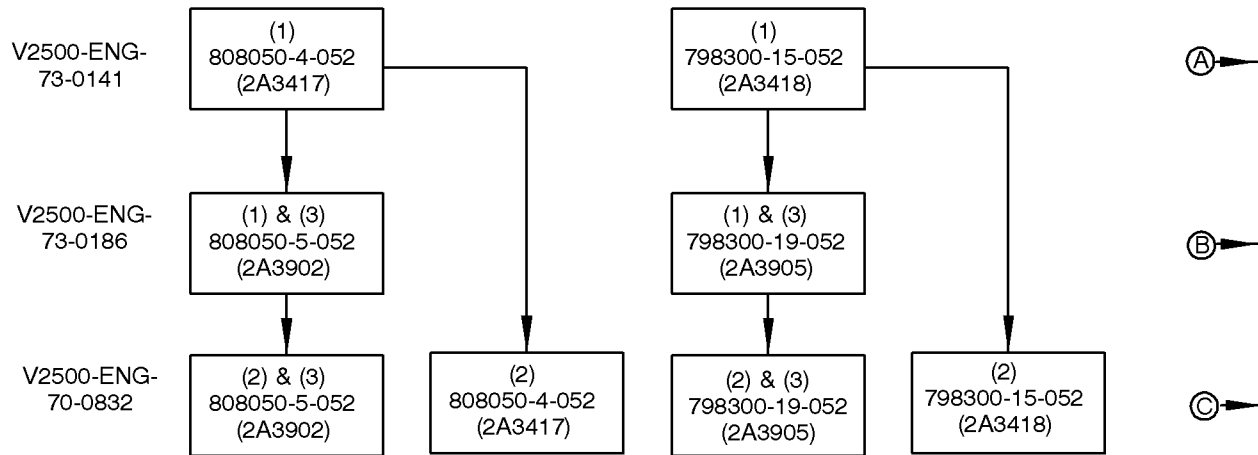
EEC WITH FLAME SHIELDS AND EEC WITHOUT FLAME SHIELDS
Figure 1

APPENDIXParts Progression To Show the Changed Part in Relation to Other Parts

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MODIFICATIONS

A1 PART NUMBER CHANGE



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- (1) WITH FLAME SHIELDS
- (2) WITHOUT FLAME SHIELDS
- (3) PB SCREEN DELETED

pw0b514038

FAMILY TREE – A1 EEC. REFERENCE CATALOG SEQUENCE NUMBER 73-22-34. FIGURE 1 ITEM 280.
Chart A (Sheet 1)

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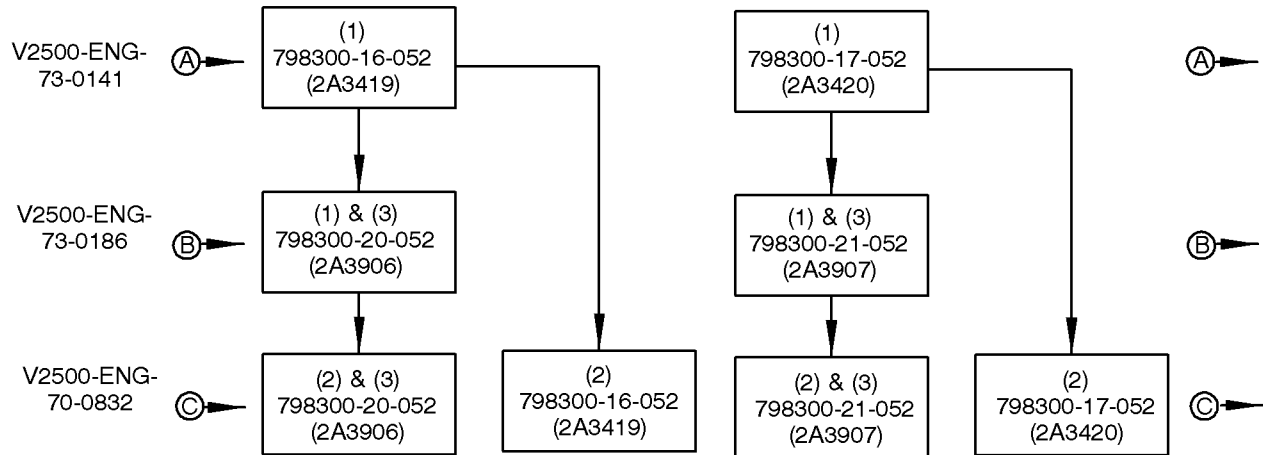
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MODIFICATIONS

A1 PART NUMBER CHANGE

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- (1) WITH FLAME SHIELDS
- (2) WITHOUT FLAME SHIELDS
- (3) PB SCREEN DELETED

pw0b514039

FAMILY TREE - A1 EEC. REFERENCE CATALOG SEQUENCE NUMBER 73-22-34. FIGURE 1 ITEM 280.
Chart A (Sheet 2)

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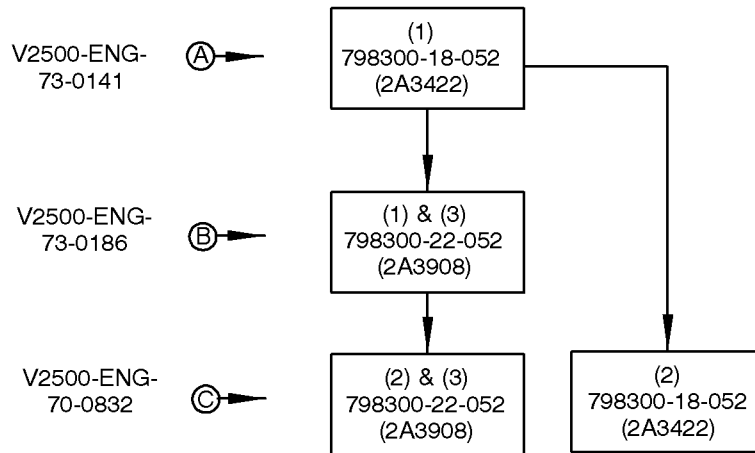
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MODIFICATIONS

A1 PART NUMBER CHANGE



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- (1) WITH FLAME SHIELDS
- (2) WITHOUT FLAME SHIELDS
- (3) PB SCREEN DELETED

pw0b514040

FAMILY TREE – A1 EEC. REFERENCE CATALOG SEQUENCE NUMBER 73-22-34. FIGURE 1 ITEM 280.
Chart A (Sheet 3)

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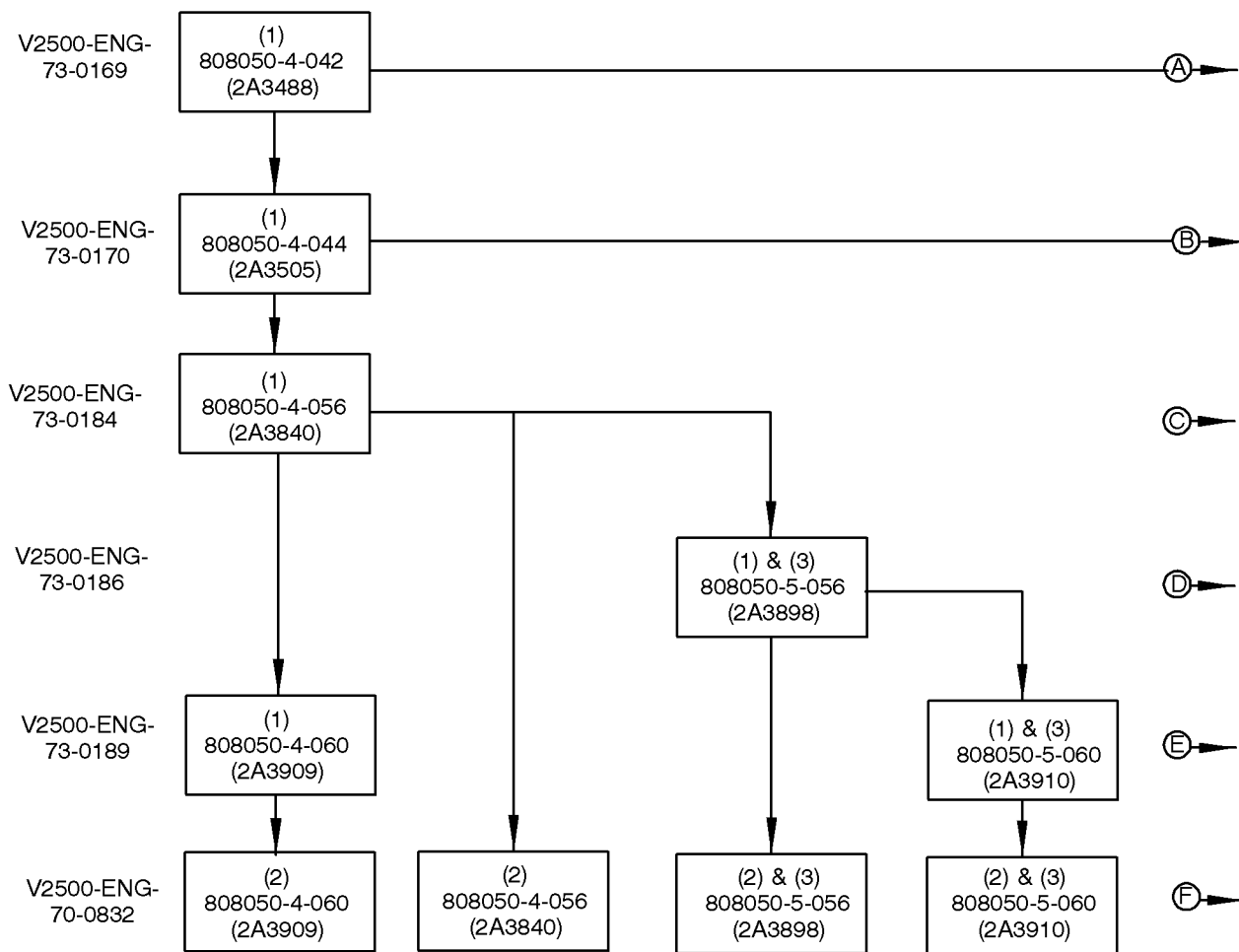
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MODIFICATIONS

A5 PART NUMBER CHANGE

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- (1) WITH FLAME SHIELDS
- (2) WITHOUT FLAME SHIELDS
- (3) PB SCREEN DELETED

pw0b514041

FAMILY TREE - A5 EEC. REFERENCE CATALOG SEQUENCE NUMBER 73-22-34. FIGURE 1 ITEM 280.
Chart B (Sheet 1)

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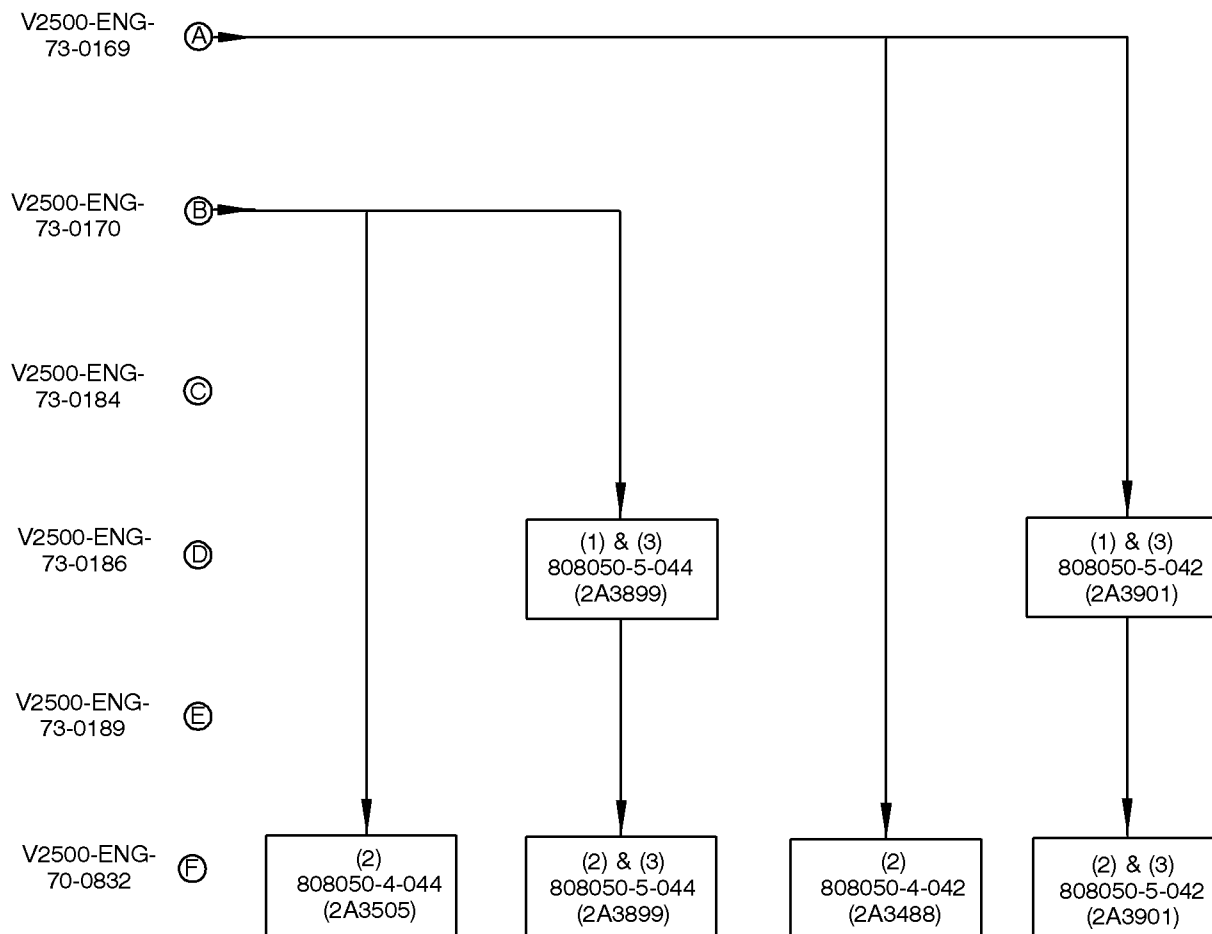
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MODIFICATIONS

A5 PART NUMBER CHANGE



- (1) WITH FLAME SHIELDS
- (2) WITHOUT FLAME SHIELDS
- (3) PB SCREEN DELETED

pw0b514042

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FAMILY TREE – A5 EEC. REFERENCE CATALOG SEQUENCE NUMBER 73-22-34. FIGURE 1 ITEM 280.
Chart B (Sheet 2)

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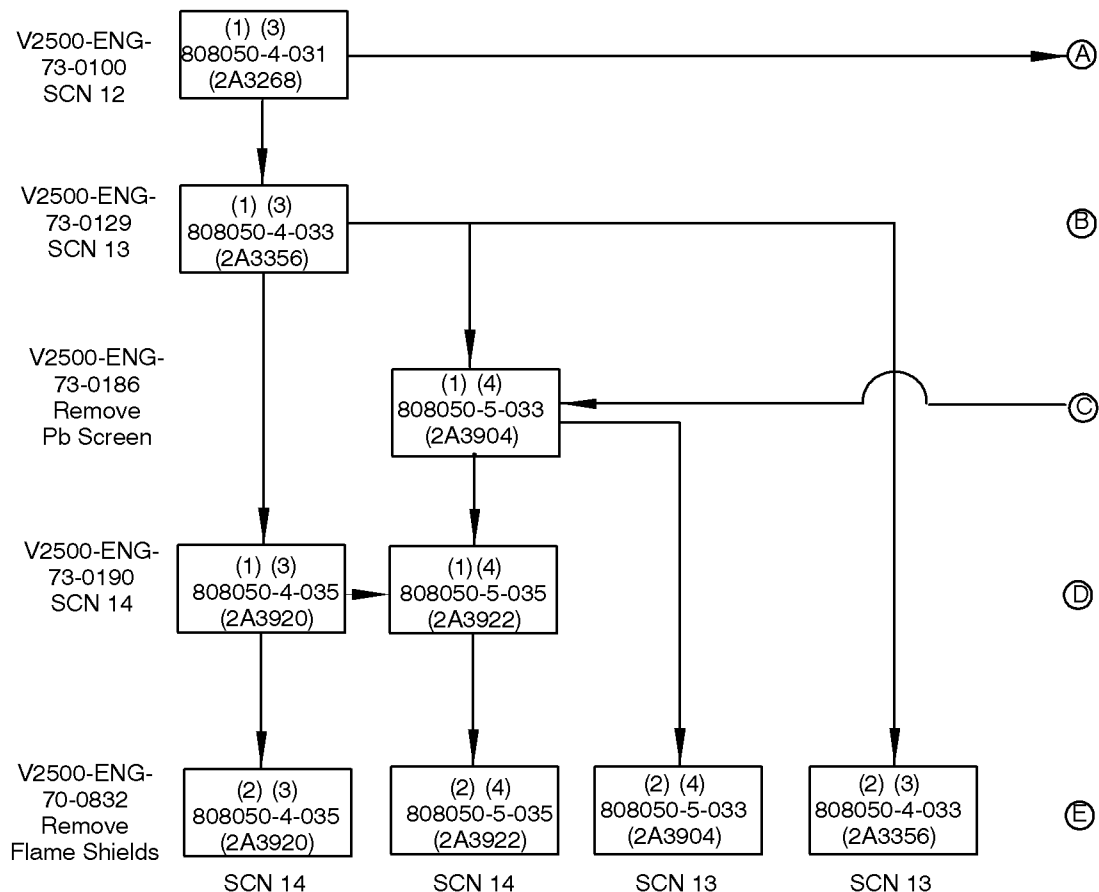
Not subject to the EAR per 15 C.F.R. Chapter 1, Part 734.3(b)(3).

MODIFICATIONS

D5 PART NUMBER CHANGE

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R



- (1) WITH HEAT SHIELDS
- (2) WITHOUT HEATSHIELDS
- (3) WITH PB SCREEN
- (4) PB SCREEN DELETED

pw0b520030

R FAMILY TREE D5 EEC. REFERENCE CATALOG SEQUENCE NUMBER 73-22-34. FIGURE 1 ITEM 280.
R CHART C (Sheet 1)

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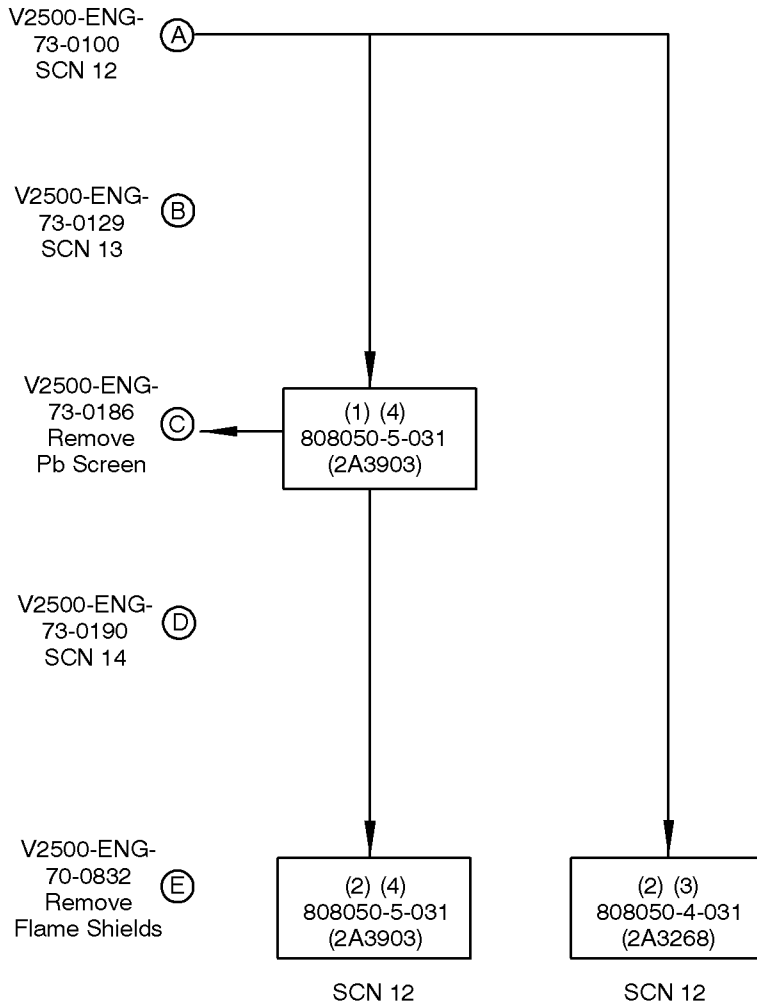
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MODIFICATIONS

D5 PART NUMBER CHANGE



- (1) WITH HEAT SHIELDS
- (2) WITHOUT HEATSHIELDS
- (3) WITH PB SCREEN
- (4) PB SCREEN DELETED

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R

pw0b520031

R FAMILY TREE D5 EEC. REFERENCE CATALOG SEQUENCE NUMBER 73-22-34. FIGURE 1 ITEM 280.
R CHART C (Sheet 2)

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INFORMATION – ELECTRONIC ENGINE CONTROL (EEC) – FLAME SHIELD REMOVAL FOR EEC150-1 AND
EEC150-20

Supplement

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R V2500 A1, A5 and D5

1. Modification Kit

A. There is no kit provided to do this Service Bulletin.

2. Material Cost

A. Part price for the Electronic Engine Control must be obtained from IAE.
Contact IAE's Spare Parts Sales Department for firm quotations.