



Mandatory Service Bulletin
No. MSB-E4-008/2

Austro Engine GmbH
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MANDATORY SERVICE BULLETIN

No. MSB-E4-008/2
SUPERSEDES MSB No. MSB-E4-008/1

1. BASIC INFORMATION

1.1. SUBJECT

Exchange of oil separator hose between cylinder head cover and oil separator.

1.2. ENGINES AFFECTED

Type: E4 Engine

Serial Number: E4-B-00001 to E4-B-00109; E4-B-00112 to E4-B-00122
unless MSB-E4-008 has already been conducted or injector cover with maintenance lid is installed (refer to Maintenance Manual Section 85-00-00 for details).

1.3. REASON

Due to reported occurrences of leaking oil separator hoses, it is necessary to exchange the old part design on the engine serial numbers shown under chapter 1.2 with the latest part design.

1.4. TIME OF COMPLIANCE

At the next 300h scheduled maintenance check of the injector cover or in case of unscheduled removal of the injector cover, whichever comes first.
This MSB includes no recurring actions.

1.5. CONCURRENT DOCUMENTS / REFERENCES

Maintenance Manual – Doc. No.: E4.08.04, latest effective issue

1.6. OTHER PUBLICATIONS AFFECTED

None.


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2. TECHNICAL DETAILS

2.1. ACCOMPLISHMENT / INSTRUCTIONS

The following instructions have to be followed to comply with this MSB.

1. "Removal of the Injector Cover" according to Maintenance Manual E4.08.04, chapter 85-00-11.
2. Disassemble the oil separator hose [1] from the oil separator assembly (see Figure 1) by removing the hose clamp [2] with the tool shown under chapter 3.2. Then pull-off the oil separator hose [1] from the oil separator [3] by using adequate tools.

 Take care of not damaging the oil separator [3] while pulling-off the oil separator hose [1].

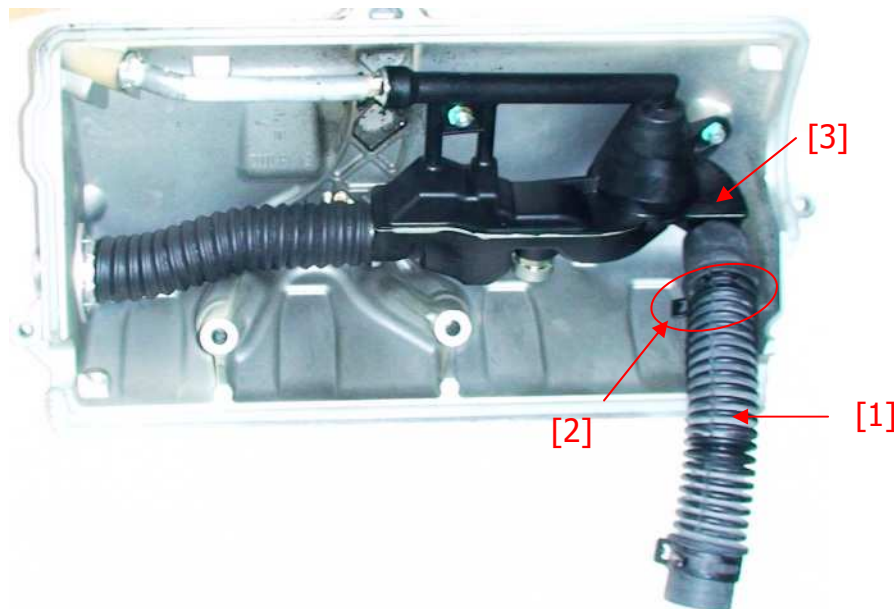


Figure 1: oil separator assembly

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3. Exchange the oil separator hose – old design – by the new design with the part number E4A-53-100-501 Rev. 020 (see Figure 2).

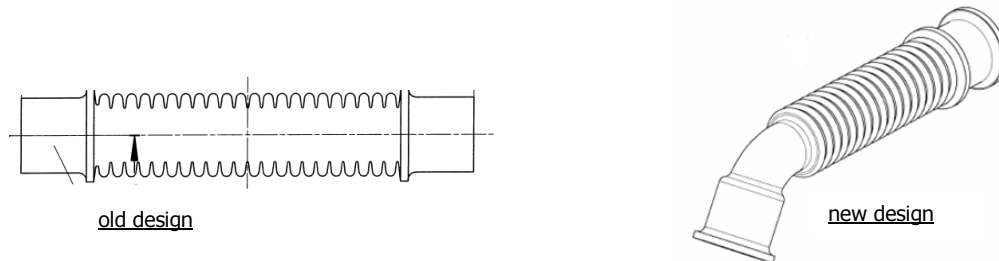


Figure 2: old and new oil separator hose design

4. Mounting of the new oil separator hose according to the following steps:

Step 1



Clean hose connection [1] on the cylinder head cover by using a dry and clean rag only.



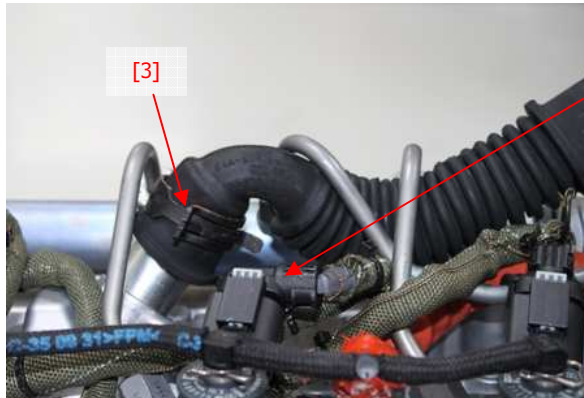
Do not use any detergent to avoid engine oil contamination.

Step 2



Guide the oil separator hose [2] beneath the high pressure fuel lines as shown.

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Step 3


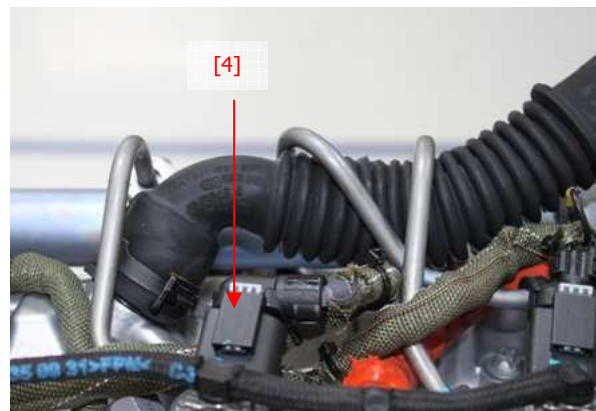
Preassemble the hose clamp [3] to the oil separator hose as shown.


Step 4


Disconnect the injector plug [4] for an easier mounting of the oil separator hose, if required.

Step 5

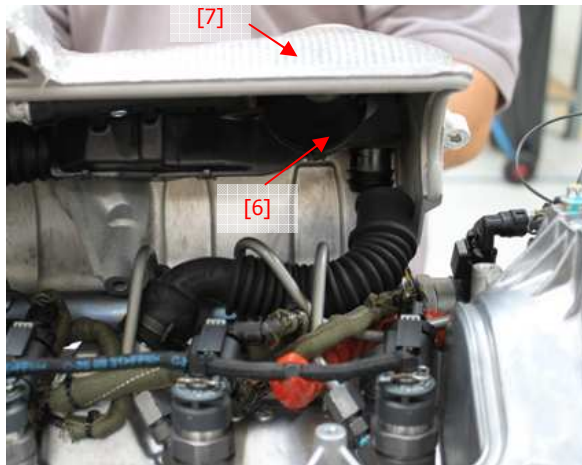

Push the oil separator hose [2] over the hose connection [1] and fix it with the hose clamps [3] by using the tools [5] shown under chapter 3.2.

Step 6


 Do not forget to reassemble the injector plug [4] after Step 5.

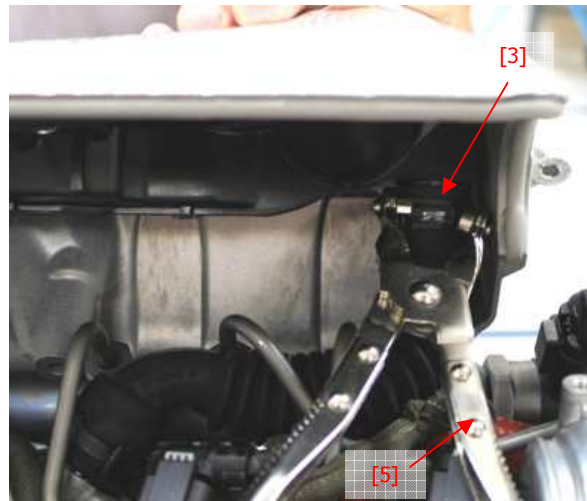
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Step 7



After assembly of the oil separator hose to the cylinder head cover, the hose needs to be connected to the oil separator assembly [6] which is installed on the injector cover [7].


Step 8



Push the oil separator hose [2] on to the oil separator assembly [6] and fix them with the hose clamps [3] by using the tools [5] shown under chapter 3.2.


Step 9



 Please take care during the oil separator hose installation that the hose is not stressed by torsion.

Step 10



 Close the injector cover carefully to avoid stress to or jamming of the oil separator hose.

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Step 11


Before mounting of the injector cover slightly push the hose towards the direction shown. This helps to avoid jamming of the oil separator hose.

5. Install the injector cover according the instructions given in the Maintenance Manual E4.08.04 chapter 85-00-12 – "*Installation of Injector Cover without maintenance lid*".



The mentioned chapter numbers refer to Maintenance Manual E4.08.04 Rev. 23. They may differ in future revisions. In this case please refer to the name of the chapter as mentioned above.

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2.2. MASS (WEIGHT)

Not affected.

2.3. APPROVAL STATEMENT

The technical information or instructions contained in this document relate to the Basic Type Design which has been approved by EASA and to the Design Change Report No. MDC-E4-179 which has been approved under the authority of DOA No. EASA.21J.399.

The technical content of this document has been approved under the authority of DOA No. EASA.21J.399.

3. PLANNING INFORMATION

3.1. MATERIAL & AVAILABILITY

Amount	Part Name	Part Number	Rev. Number
1	Oil separator hose	E4A-53-100-501	020

3.2. SPECIAL TOOLS

- Spring band clamp pliers

3.3. LABOR EFFORT

Refer to labor allowance list provided in the Austro Engine GmbH service agreement.

3.4. CREDIT

Part cost, shipment and labor allowance are granted only if the enclosed execution report is completed and returned to Austro Engine GmbH.

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4. REMARKS

NOTE:

- All measures must be carried out by a certified engine station and certified engine mechanics.
- The accomplishment of the instructions shown under chapter 2.1 must be confirmed in the respective engine log book.
- The accomplishment of the instructions must be carried out within the time of compliance according chapter 1.4.
- In case of doubt please contact the Austro Engine GmbH – After Sales Support (e-mail: service@austroengine.at; Tel: +43 2622 23000 2525).
- For credit information contact Austro Engine GmbH – After Sales Support (e-mail: service@austroengine.at; Tel: +43 2622 23000 2525)

5. EXPLANATORY NOTES

5.1. SYMBOL EXPLANATION



WARNING: Disregarding these safety rules can cause personal injury or even death



CAUTION: Disregarding these special instructions and safety measures can cause damage to the engine or other components.



NOTE: Additional note or instruction for better understanding of an instruction

6. APPENDIX

Execution Report.

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**EXECUTION REPORT
TO
SERVICE BULLETIN MSB-E4-008/2**

ENGINE DATA

Engine Serial Number: _____

Airplane Registration: _____

Engine operating hours: _____

Date of exchange: _____

Date, Name, Signature

Please fax the completed form to Fax No.: +43(0)2622-23000-2709 or e-mail to service@austroengine.at.

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