



Mandatory Service Bulletin  
No. MSB-E4-028/1

Austro Engine GmbH  
Rudolf-Diesel-Strasse 11  
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# MANDATORY SERVICE BULLETIN

**No. MSB-E4-028/1**  
**SUPERSEDES MS No. MSB-E4-028**

## 1. BASIC INFORMATION

### 1.1. SUBJECT

Oil return line pipe, part number E4A-55-100-000.

### 1.2. ENGINES AFFECTED

Engine affected: E4 Series

Serial numbers affected:	E4-A-00263	E4-B-00031	E4-C-00200	E4P-C-05001
	E4-A-00265	E4-B-00379	E4-C-00201	E4P-C-05002
	E4-A-00276	E4-B-00028	E4-C-00266	E4P-C-05003
	E4-A-00100	E4-B-00060	E4-C-00301	E4P-C-05004
	E4-A-00163	E4-B-00140		E4P-C-05005
	E4-A-00286	E4-B-00145		E4P-C-05006
	E4-A-00474			E4P-C-05007
	E4-A-00076			E4P-C-05008
	E4-A-00011			
	E4-A-00221			
	E4-A-00131			
	E4-A-00341			

### 1.3. REASON

Current design of the pipe combined with new cylinder head assembly, lead to torque force of the welded appendix of the oil return line pipe during assembly and disassembly phases, when not accomplished with extreme care. Torque force could crack or deform the pipe appendix, leading to oil leakage. This service bulletin improves the design of the pipe to simplifies the assembly phase and future maintenance process.

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**1.4. TIME OF COMPLIANCE**

Within the next 100 flight hours or next scheduled Maintenance, whichever occurs first.

**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

Exchange of oil return pipe p/n E4A-55-100-000 (old) with oil return pipe p/n shown in chapter 3.1 (new). For instructions refer to the Engine Maintenance Manual (EMM), chapter 79-00-111 "Removal of the Oil Return Line" and chapter 79-00-112 "Installation of the Oil Return Line". After the (new) pipe installation (EMM, 79-00-112 point 8), plug the screw p/n E4A-70-000-817 at the cylinder head instead of the old pipe appendix attachment, securing it with Loctite 243. Perform an engine ground run according to EMM, chapter 71-00-03.12. After the ground run the engine must be cooled down, then inspected for oil leakage. After the inspection, tight again the banjo bolt of the oil sump with 50 Nm and apply the safety wire.

### 2.2. ILLUSTRATIONS

None.

### 2.3. MASS (WEIGHT)

Negligible.

### 2.4. APPROVAL STATEMENT

The technical content of this document has been approved under the authority of DOA Ref. EASA.21J.399.

## 3. PLANNING INFORMATION

### 3.1. MATERIAL & AVAILABILITY

Amount	Part Name	Part Number	Rev. Number
1	BHY Oil Return Pipe	E4A-55-100-BHY <b>or</b> AEP-00391-000 <b>or</b> AEP-00391-B00	AA.1 or subsequent
1	Plug Screw	E4A-70-000-817	AA.1 or subsequent

### 3.2. SPECIAL TOOLS

None.

### 3.3. LABOR EFFORT

1 hour

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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 0.
- In case of doubt please contact the Austro Engine GmbH – After Sales Support (e-mail: [service@austroengine.at](mailto:service@austroengine.at); Tel: +43 2622 23000 2525).
- For credit information contact Austro Engine GmbH – After Sales Support (e-mail: [service@austroengine.at](mailto: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

None.

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