



Mandatory Service Bulletin  
No. MSB-E4-028/3

Austro Engine GmbH  
Rudolf-Diesel-Strasse 11  
A-2700 Wiener Neustadt  
Tel: +43 2622 23000  
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# **MANDATORY SERVICE BULLETIN**

**No. MSB-E4-028/3**  
**SUPERSEDES MS No. MSB-E4-028/2**

## **1. BASIC INFORMATION**

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### **1.1. SUBJECT**

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

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**ENGINES AFFECTED**

Engine affected:

E4 Series

E4-A-00020	E4-A-06012	E4-B-00110	E4-C-00001	E4P-B-05001
E4-A-00037	E4-A-06013	E4-B-00136	E4-C-00004	E4P-B-05002
E4-A-00042	E4-A-06014	E4-B-00164	E4-C-00060	E4P-B-05003
E4-A-00079	E4-A-06015	E4-B-00231	E4-C-00061	E4P-B-05004
E4-A-00111	E4-A-06016	E4-B-00536	E4-C-00210	
E4-A-00133	E4-A-06017	E4-B-00031	E4-C-00218	
E4-A-00168	E4-A-06018	E4-B-00379	E4-C-00227	E4P-C-00020
E4-A-00232	E4-A-06019	E4-B-00028	E4-C-00233	E4P-C-00023
E4-A-00259	E4-A-06020	E4-B-00060	E4-C-00263	E4P-C-05009
E4-A-00266	E4-A-06021	E4-B-00140	E4-C-00279	E4P-C-05010
E4-A-00268	E4-A-06022	E4-B-00145	E4-C-00282	E4P-C-05011
E4-A-00269	E4-A-06023	E4-B-05001	E4-C-00309	E4P-C-05012
E4-A-00274	E4-A-06025	E4-B-05002	E4-C-00349	E4P-C-05001
E4-A-00278	E4-A-06026	E4-B-05003	E4-C-00200	E4P-C-05002
E4-A-00280	E4-A-06027	E4-B-05004	E4-C-00201	E4P-C-05003
E4-A-00282		E4-B-05005	E4-C-00266	E4P-C-05004
E4-A-00336		E4-B-05006	E4-C-00301	E4P-C-05005
E4-A-00397		E4-B-05007	E4-C-05120	E4P-C-05006
E4-A-00498		E4-B-05008	E4-C-05121	E4P-C-05007
E4-A-00263		E4-B-05009	E4-C-05122	E4P-C-05008
E4-A-00265		E4-B-05010	E4-C-05123	E4P-C-06001
E4-A-00276			E4-C-05124	E4P-C-06002
E4-A-00100			E4-C-05125	E4P-C-06003
E4-A-00163			E4-C-05126	E4P-C-06004
E4-A-00286			E4-C-06001	E4P-C-06005
E4-A-00474			E4-C-06002	E4P-C-06006
E4-A-00076			E4-C-06003	E4P-C-06007
E4-A-00011			E4-C-06004	E4P-C-06008
E4-A-00221			E4-C-06005	
E4-A-00131			E4-C-06006	
E4-A-00341			E4-C-06007	
E4-A-05069			E4-C-06008	
E4-A-05076			E4-C-06009	
E4-A-05077			E4-C-06010	
E4-A-05088			E4-C-06011	
E4-A-05089			E4-C-06014	
E4-A-05090			E4-C-06015	
E4-A-06001				
E4-A-06002				
E4-A-06003				
E4-A-06004				
E4-A-06005				
E4-A-06006				
E4-A-06007				
E4-A-06008				
E4-A-06009				
E4-A-06010				
E4-A-06011				

Serial numbers affected:

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## 1.2. 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.

## 1.3. TIME OF COMPLIANCE

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

## 1.4. CONCURRENT DOCUMENTS / REFERENCES

Maintenance Manual – Doc. No.: E4.08.04, latest effective issue  
Mandatory Design Change no.: MDC-E4-594b, or later approved revision

## 1.5. OTHER PUBLICATIONS AFFECTED

None.

## 2. TECHNICAL DETAILS

### 2.1. ACCOMPLISHMENT / INSTRUCTIONS

Exchange the plug screw p/n E4A-70-000-817 with the adapter assembly following the instruction provided in the maintenance manual, chapter 79-20-00, subpart 9. Exchange of oil return pipe p/n E4A-55-100-BHY or AEP-00391-000 or AEP-00391-B00 (old) with the oil return pipe p/n shown in chapter 3.1 (new). For instructions refer to the Engine Maintenance Manual (EMM), chapter 79-20-00, subpart 9 "Turbocharger Oil return line". Perform an engine ground run according to EMM, chapter 71-00-01. 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.

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### 3. PLANNING INFORMATION

#### 3.1. MATERIAL & AVAILABILITY

Amount	Part Name	Part Number	Rev. Number
1	Oil Return Pipe	E4A-55-100-000	AB.1 or subsequent
1	Adapter	AEP-00391-C-301	AA.1 or subsequent
1	Adapter plug	AEP-00391-C-201	AB.1 or subsequent
2	O-ring	OR_8X1-FPM	-

#### 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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