



MSB Service Bulletin
No. MSB-E4-007/4

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

No. MSB-E4-007/4
SUPERSEDES DOC. No. MSB-E4-007/3

1. BASIC INFORMATION

1.1. SUBJECT

Replacement of Waste Gate Controller

1.2. ENGINES AFFECTED

Type: E4 Engine

Serial numbers:

- E4-A-00001 to E4-A-00051 having waste gate controller E4A-41-120-000 Rev. 050 or lower installed.
- E4-B-00001 to E4-B-00279 having waste gate controller E4B-41-120-000 Rev. 000 or E4A-41-120-000 Rev. 050 or lower installed.

ATTENTION:

The following waste gate controllers are **not** affected and Austro Engine GmbH has no objection against further use:

- E4A-41-120-000 Rev. 060 or higher
- E4B-41-120-000 Rev. 010
- E4C-41-120-000 Rev. 000

1.3. REASON

There have been cases where the rod of the Waste Gate Controller cracked. Therefore replacement with latest Waste Gate Controller design is necessary.

1.4. TIME OF COMPLIANCE

At next maintenance action from Date of 2nd Revision, but not later than 100 operating hours or later than 30th April 2013, whichever comes first.

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1.5. CONCURRENT DOCUMENTS / REFERENCES

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

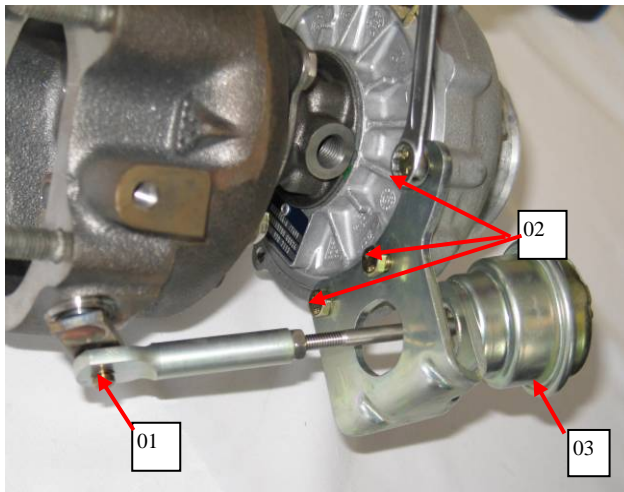
1.6. OTHER PUBLICATIONS AFFECTED

None.

2. TECHNICAL DETAILS

2.1. ACCOMPLISHMENT / INSTRUCTIONS

Removal of installed Waste Gate Controller:



1. Disconnect Hose at the top of the Waste Gate Controller
2. Remove three M6 Bolts [02]
3. Remove Circlip [01]
4. Disconnect rod from waste gate lever and remove waste gate controller [03]

Install new Waste Gate Controller according to table section 3.1.



Note: Austro Engine GmbH has no objection against further use of Waste Gate Controllers E4A- E4A-41-120-000 Rev.060, E4B-41-120-000 Rev.010 or E4C-41-120-000 Rev.000 in the same configuration of the E4 engine as installed.

1. Install the three M6 Bolts [02] and torque them with 7 Nm
2. Attach external pump to the top of the Waste Gate Controller and apply pressure till the rod starts to move
3. Connect rod to waste gate lever
4. Adjust Waste Gate Controller according to Engine Maintenance Manual E4.08.04, Chapter 81-00-32.



Note: For fixing of the rod on the waste gate lever use new circlip.

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2.2. ILLUSTRATIONS

None.

2.3. MASS (WEIGHT)

Not affected.

2.4. APPROVAL STATEMENT

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

The following spare part can be mounted on the E4-A, E4-B and E4-C configuration of the E4 engine:

Amount	Part Name	Part Number	Rev. Number
1	Waste Gate Controller	E4A-41-120-000	070 or higher
1	Circlip	DIN 6799-5	---

For materials & availability please contact the Austro Engine GmbH – After Sales Support (e-mail: service@austroengine.at; Tel: +43 2622 23000 2525)

3.2. SPECIAL TOOLS

Not applicable.

3.3. LABOR EFFORT

Approximately 30 minutes.

3.4. CREDIT

Materials as listed in section 3.1 and transportation costs of part if within warranty time period.

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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 to 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-E4-007/4

ENGINE DATA

Engine serial number: _____

Engine operating hours: _____

Date of exchange: _____

AIRCRAFT DATA

Aircraft serial number: _____

Aircraft registration: _____

Date, Name, Signature

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

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