

# SERVICE INFORMATION

## NO. SI 40NG-019

**NOTE:** SI's are used only:  
1) To distribute information from DAI to our customers.  
2) To distribute applicable information/documents from our suppliers to our customers with additional information.  
Typically there is no revision service for SI's. Each new information or change of that will be sent along with a new SI.

### I. TECHNICAL DETAILS

#### 1.1 Airplanes affected:

All DA 40 NG airplanes

#### 1.2 Subject:

Austro Engine Mandatory Service Bulletin No. MSB-E4-007/3  
ATA-Code: 71-00

#### 1.3 Reason:

Austro Engine has revised its Mandatory Service Bulletin MSB-E4-007 to Revision 3 prescribing the replacement of the Waste Gate Controller at certain E4 engine Serial numbers. Revision 3 includes additional Engine Serial Numbers.

#### 1.4 Information:

For detailed technical information refer to Austro Engine Mandatory Service Bulletin No. MSB-E4-007/3 which is applicable without any further additions or restrictions.

### II. OTHERS

Austro Engine Mandatory Service Bulletin No. MSB-E4-007/3 is attached to this Service Information.

In case of doubt contact Austro Engine GmbH



MSB Service Bulletin  
No. MSB-E4-007/3

Austro Engine GmbH  
Rudolf-Diesel-Strasse 11  
A-2700 Wiener Neustadt  
Tel: +43 2622 23000  
FAX: +43 2622 23000-2711

# MANDATORY SERVICE BULLETIN

**No. MSB-E4-007/3**  
**SUPERSEDES DOC. No. MSB-E4-007/2**

## 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.

### 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 2<sup>nd</sup> Revision, but not later than 100 operating hours or later than 30<sup>th</sup> April 2013, whichever comes first.

### 1.5. CONCURRENT DOCUMENTS / REFERENCES

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

### 1.6. OTHER PUBLICATIONS AFFECTED

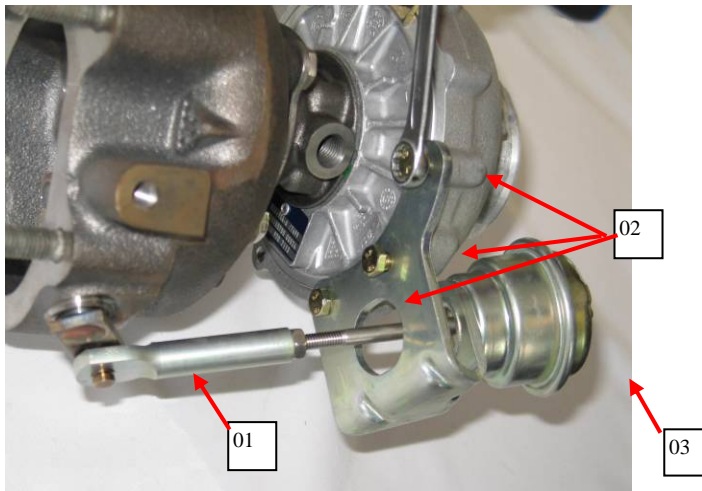
None.

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## 2. TECHNICAL DETAILS

### 2.1. ACCOMPLISHMENT / INSTRUCTIONS

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

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

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](mailto: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

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### **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](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

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### 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

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Execution Report

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## EXECUTION REPORT TO SERVICE BULLETIN MSB-E4-007/2

### 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](mailto:service@austroengine.at).

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