



Service Bulletin
No. MSB-E1-007

Austro Engine GmbH
Rudolf-Diesel-Strasse 11
2700 Wiener Neustadt
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MANDATORY SERVICE BULLETIN

No. MSB-E1-007

1. BASIC INFORMATION

1.1. SUBJECT

Approved Software and Hardware Versions of the E1 Engine Series.

1.2. ENGINES AFFECTED

Type: AE50R
Model(s): IAE50R-AA
Serial number(s): all

1.3. REASON

This SB lists the approved software and hardware versions for the Engine Control Unit (ECU).

■ **NOTE:** Corresponding bulletins of the aircraft manufacturer have to be observed.

1.4. TIME OF COMPLIANCE

At the next maintenance action from date of revision.

1.5. CONCURRENT DOCUMENTS / REFERENCES

Engine Manual IAE50R-AA – Doc. No.: E1.01.05 – E, latest effective issue

1.6. OTHER PUBLICATIONS AFFECTED

None.

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2. TECHNICAL DETAILS

2.1. ACCOMPLISHMENT / INSTRUCTIONS

Make sure that the ECU software version of your engine S/N complies with the software version shown in Table 1. If the ECU software version of your engine does not comply with a valid version as listed in Table 1 it is mandatory to be updated with the version shown in Table 1.

It is always recommended to update the software with the latest valid version relevant for your engine serial number. Prior approved software and hardware versions might also not correspond to the content of the latest effective issues of manuals.

■ **NOTE:** ECU part number R1A-92-000-000-000/001 cannot be upgraded and will remain at the current revision level.

■ **NOTE:** ECU part number R1A-92-000-000-020/AA1 can be upgraded to SW_V1.1.9.2.4.

The new SW_V1.1.9.2.4 improves engine operation in the following areas:

- Improvements for cold starts
- Optimization for flights at higher altitudes (3000m)
- Rotor Cooling Air Temperature (RTC) characteristic shows more accurately the same behavior as the original MidWest ECU (part# R1A-92-000-000-000/001).

General: Vaa.bb.cc.dd.ee
aa Major software version
bb Minor software version
cc PAI version
dd Dataset layout version
ee Dataset version

For updates, please contact Austro Engine GmbH or your service partner.

For the time of compliance, see chapter 1.4 of this MSB.

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	Model	Engine S/N	Software Version	Hardware Version
Latest valid SW / HW Versions	E1	R1-A-00001 and subsequent	SW_V1.0.9.1.3 (R1A-92-200-000-AA1) SW_V1.1.9.2.4 (R1A-92-200-000-AB1)	R1A-92-000-000-AA1* R1A-92-000-000-AB1* and later
	E1	R1-A-00001 and subsequent	MWAIR2 G1.57	R1A-92-000-000-000 R1A-92-000-000-001

Table 1: Valid E1 Software / Hardware Versions

* **NOTE:** AE has recently changed its numbering scheme for revisions of parts. Parts already in the field follow the previous revision-scheme, while newly produced parts are labeled following the new scheme.

Previous Revision Scheme	New Revision Scheme	Comment
R1A-92-000-000- 020	R1A-92-000-000- AA1	HW is fully equivalent, can be updated to Rev " -AB1 " by SW-update

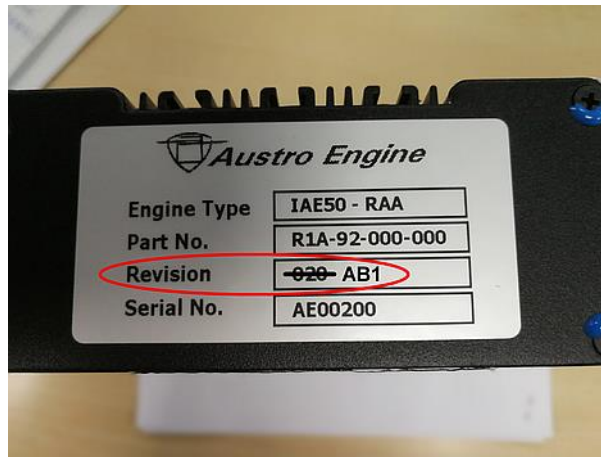
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2.2. ILLUSTRATIONS

Original label:



Updated label:



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.

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3. PLANNING INFORMATION

3.1. MATERIAL & AVAILABILITY

The parts and concurrent documents can be obtained through Austro Engine GmbH.

3.2. SPECIAL TOOLS

If the SW-Version of the ECU cannot be determined, it can be read out by using one of the following maintenance tools:

- R1-Wizard software V2.0 or later and USB-Adapter/License Dongle. The kit including HW, SW and 1 year license is available from Austro Engine order #AEP-00211.
- GEMSCOM software and serial/USB adapter as originally developed by MidWest Engines.

3.3. LABOR EFFORT

Approximately 15 minutes.

3.4. CREDIT

None.

4. REMARKS

NOTE:

- All measures must be carried out by a certified engine station and certified engine mechanic.
- The accomplishment of the instructions shown under chapter 2.1 must be confirmed in the respective engine logbook.
- 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).

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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-E1-007

ENGINE DATA

Engine Serial Number: _____

Airplane Registration: _____

SW Version before Update: _____

SW Version after Update _____

Engine operating hours: _____

Date of exchange: _____

Date, Name, Signature

Please send the completed form to Fax No.: +43(0)2622-23000-2711 or e-mail to service@austroengine.at.

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