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**MANDATORY**

**SERVICE  
BULLETIN**

## **MANDATORY SERVICE BULLETIN Z 50M/18a**

Engineering Aspects are CAA CZ approved.

**1. DATE:** March 26, 2004

**2. APPLICABLE TO:** All Z 50 M Aircraft.

**3. REASON:** A possibility to increase aircraft safe life time.

Based on aircraft loads registration and evaluation, ~~MORAVAN – AEROPLANES Inc.~~ as an aircraft manufacturer is qualified to increase safe life limit up to 1800 hours TIS on condition that approved ZLIN 50M-A design load spectrum will not be exceeded during the whole aircraft safe life.

If the aircraft is operated over the ZLIN 50M-A load spectrum limits (frequency of load factors), its safe life time is decreased. In that case the CAA of the Czech Republic will be notified of the safe life time change of the affected aircraft through the mediation of the Form No. Z50M-AMU1/2. CAA of the Czech Republic will send approved Form to the CAA of the country where the aircraft is registered for validation and transfer to the operator.

A notification of the safe life time change through the mediation of the Form No. Z50M-AMU1/2 will be sent to the operator at the latest 100 hours TIS before end of the aircraft operation (decreasing of safe life time below 1 800 hours TIS).

The Form with changed total safe life time shall be inserted into Technical Manual of the Z 50 M aircraft, after page No. 3-42.

**4. ACTIONS REQUIRED:**

- 4.1** Aircraft overhaul at total time of 1200 hours TIS.  
Replacement of engine mount and stabilizer support eyes at total time of 1200 hours TIS.
- 4.2** Installation of AMU 1.01 Acceleration Monitoring Unit.

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- 4.3** Performance of aircraft inspection by Technical Commission of the Aircraft Manufacturer at time of 1500 hours TIS. Performance of this inspection after each next 100 hours TIS.
- 4.4** Consequent modification of technical aircraft documentation:

**5. ACCOMPLISHMENT:** According to operator's order.

**6. PERFORMED BY:**

- 6.1** Aircraft overhaul and replacement of engine mount and stabilizer support eyes:  
Aircraft manufacturer ~~MORAVAN – AEROPLANES, Inc.~~ or Approved Service organization authorized to perform overhaul inspection.
- 6.2** Instalation of AMU 1.01 acceleration monitoring including activation:  
Aircraft manufacturer ~~MORAVAN – AEROPLANES, Inc.~~
- 6.3** Aircraft inspection at 1500 hours TIS and further aircraft inspection after each 100 hours TIS will perform Technical Commission of the Aircraft Manufacturer.
- 6.4** Operator.

**7. COSTS COVERED BY:** Operator.

**8. MATERIAL:**

- Engine mount complete Drw. No. 154.0.610.000 1 set  
(including all fastening elements)
- Eye Drw. No. 150.0.311.003 2 pcs
- Nut Drw. No. Z42-1300.00.16 2 pcs
- Washer 12,3 ONL 3288.1 2 pcs
- Bolt 8x27 ONL 3120.14 2 pcs
- Nut M8 ČSN 02 1413.44 2 pcs
- Washer B8,4 ČSN 02 1702.14 2 pcs
- Cotter pin 2x18 ČSN 02 1781.04 2 pcs
  
- Installation of AMU1.01 Acceleration  
Monitoring Unit Drw. No. 150.0.870.000 1 set

Based on order, aircraft manufacturer ~~MORAVAN – AEROPLANES, Inc.~~ will provide at overhaul and AMU 1.01 installation performance.

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**9. PROCEDURES:**

- 9.1** Perform aircraft overhaul.  
Perform replacement of engine mount and stabilizer support eyes.
- 9.2** Perform installation of AMU 1.01 Acceleration Monitoring Unit.
- 9.3** Record an installation log of AMU 1.01 Acceleration registration unit into the Aircraft Log Book.
- 9.4** Insert AMU 1.01 Acceleration Registration Unit Supplements into your Z 50 M aircraft Flight Manual and Technical Manual in case of AMU 1.01 Acceleration Registration Unit installation.

Z 50 M Flight Manual – Czech version:

- replace old pages: 0-5; 1-4
- insert new pages of the Revision dated 26. 3. 2004 (see Enclosure)
- record changes into Log of Changes.

Z 50 M Flight Manual – English version:

- replace old pages: 0-5; 1-4
- insert new pages of the Revision dated March 26/04 (see Enclosure)
- record changes into Log of Changes.

Z 50 M Technical manual – Czech version:

- replace old pages: 0-3; 0-5; 3-23; 3-33
- insert new pages of the Revision dated 26.3.2004 (see Enclosures)
- record changes into Log of Changes.

Z 50 M Technical manual – English version:

- replace old pages: 0-3; 0-5; 3-29; 3-42
- insert new pages of the Revision dated March 26/04 (see Enclosures)
- record changes into Log of Changes.

**10. ENCLOSURE:**

- Methods of Data Processing for AMU 1.01.
- Z 50 M Flight Manual Supplement – AMU 1.01 Acceleration Monitoring Unit – Czech and English versions.

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- Z 50 M Technical Manual Supplement – AMU 1.01 Acceleration Monitoring Unit – Czech and English versions.
- New pages of Z 50 M Flight Manual – Czech version: 0-5; 1-4; 2-10a; 2-10b.
- New pages of Z 50 M Flight Manual – English version: 0-5; 1-4; 2-10a; 2-10b.
- New pages of Z 50 M Technical Manual Czech version: 0-3; 0-5; 3-23; 3-33,
- New pages of Z 50 M Technical Manual English version: 0-3; 0-5; 3-29; 3-42,



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**Dušan Totek**  
Chief Designer

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