

Circular No. 3-010

Standards and Inspection  
for  
Altimeters and Static Pressure Systems

March 15, 2004  
June 30, 2011

First issue  
Amended

Airworthiness Division, Aviation Safety and Security Department  
Japan Civil Aviation Bureau  
Ministry of Land, Infrastructure, Transport and Tourism

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JCAB Circular

Director, Flight Standards Division  
Director, Airworthiness Division  
Aviation Safety and Security Department  
Japan Civil Aviation Bureau  
Ministry of Land, Infrastructure, Transport and Tourism

Subject: Standards and Inspection for Altimeters and Static Pressure Systems

1. Standards for Altimeters

The standards for altimeters equipped on civil aircraft shall be as follows to ensure appropriate altitude separation:

- 1) for aircraft flying at an altitude between 16,000 feet and 20,000 feet, an altimeter whose accuracy is equivalent to TSO-C10a; and
- 2) for aircraft flying at an altitude of 20,000 feet or higher, an altimeter whose accuracy is equivalent to TSO-C10b.

2. Interval of Periodic Inspection for Altimeters and Static Pressure Systems

In order to maintain the accuracy described in Section 1 and ensure flight safety, periodic inspections for altimeters and static pressure systems must be performed at intervals not exceeding 24 months. However, in regard to aircraft used for air transport services whose maintenance manuals include principle items for maintenance concerning periodic inspection for altimeters and static pressure systems, periodic inspections must be performed in accordance with the intervals as stipulated in said principle items for maintenance.

3. Periodic Inspection Items and Inspection Guidelines for Altimeters and Static Pressure Systems

When the periodic inspection described in Section 2 is performed by an air carrier in accordance with the intervals as stipulated in the maintenance manuals, the inspection must be performed according to the inspection items and inspection guidelines as stipulated in said maintenance manuals; in other cases, the inspection must be performed in accordance with TCI-6-013-70 "Inspection Guidelines for Altimeters and Static Pressure Systems" (including maintenance of altimeter testing equipment; established on April 6, 1970). In both cases, the requirements must be satisfied.

However, if a scale error of an altimeter is out of the range of the acceptable value at a certain

altitude or higher, until procuring an altimeter that satisfies the requirements, the maximum altitude must be tentatively indicated at the side of the altimeter to prevent the aircraft from flying above the altitude.

#### 4. Implementation of Periodic Inspection

- 1) Periodic inspections must be performed using testing equipment or the equivalent as designated in the aircraft maintenance manual, etc. Said testing equipment must be inspected and calibrated in accordance with respective instruction manuals, as well as with the maintenance manuals as for an air carrier and the exposition or the “Inspection Guidelines for Altimeters and Static Pressure Systems (TCI-6-013-70)” as cited in Section 3 in regard to an approved organization.
- 2) Proper implementation of periodic inspection for altimeters and static pressure systems must be confirmed by the person or entity as listed below:
  - a) an organization approved by the Minister of Land, Infrastructure, Transport and Tourism in accordance with Article 20 of the Civil Aeronautics Act in regard to the operation concerning the implementation of the said inspection; and
  - b) a qualified maintenance technician.

#### 5. Flight Logbook Entry

After completing a periodic inspection for altimeters and static pressure systems, the record must be kept in the flight logbook as stipulated in Article 58, paragraph (2) of the Civil Aeronautics Act. However, when an air carrier implements a periodic inspection in accordance with the intervals and periodic inspection items as stipulated in the maintenance manuals, the flight logbook entry may be omitted.

#### Supplementary Provisions

1. This circular shall be enforced on March 15, 2004.
2. The “Standards for Altimeters,” a circular issued by the director-general of Engineering Department (KU-KOU-551, issued on December 9, 1971), the “Altimeters and Static Pressure System Equipment that Have Received Periodic Inspection,” a circular issued by the director-general of the Japan Civil Aviation Bureau (KU-KOU-227, issued on April 16, 1973), and the “Standards and Inspection for Altimeters and Static Pressure System,” a circular issued by the director of Inspection Department (KU-KEN-322, issued on May 14, 1977), shall be superseded by this circular.

#### Supplementary Provision (June 30, 2011)

1. This JCAB Circular shall be enforced on July 1, 2011.