

## Airworthiness Directive

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

Amendment 39-5317; AD 86-05-02

Airworthiness Directives; UNITED INSTRUMENTS, INC. Altimeter Part Numbers 5934, 5934A, 5934M, 5934AM, 5934P, 5934PA, 5934PM, 5934PAM, 5934D, 5934PD, 5934AD, and 5934PAD

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#### ▼ Preamble Information

AGENCY: Federal Aviation Administration, DOT

DATES: Effective May 28, 1986.

#### ▼ Regulatory Information

**86-05-02 UNITED INSTRUMENTS, INC.:** Amendment 39-5317. Applies to altimeter Part Numbers 5934, 5934A, 5934M, 5934AM, 5934P, 5934PA, 5934PM, 5934PAM, 5934D, 5934PD, 5934AD, and 5934PAD with the following serial numbers:

6C461 thru 6C999  
7C000 thru 7C999  
8C000 thru 8C999  
9C000 thru 9C999  
0D000 thru 0D999  
1D000 thru 1D999  
2D000 thru 2D869

NOTE 1: This AD is applicable to pressure sensitive altimeters that do not have encoding

capabilities. The affected **altimeters** were manufactured after February 1, 1985.

Compliance: Required as indicated unless **already** accomplished.

To prevent possible erroneous **altitude** information from being displayed to the pilot, accomplish the following:

(a) For **all altimeters** that are installed in an aircraft, prior to further flight,

(1) Check each installed **altimeter** or check the aircraft's permanent maintenance record to determine if the **altimeter falls** within the **Serial Number** designations set forth in this AD. The owner/operator of the aircraft may make this check.

(2) If, as a result of this check, it is determined that the **altimeter falls** within these designations, check the **altimeter** by applying a slight outward pull on the adjustment knob while turning the knob and determine that the **altitude** indication pointers and the barometric pressure **dial** remain synchronized.

(3) The holder of a pilot certificate issued under Part 61 of the Federal Aviation Regulations (FAR) may conduct this check on any airplane owned or operated by him. The person accomplishing this must make the appropriate aircraft maintenance record entry as prescribed by FAR 91.173.

(4) If the **altitude** pointers do not move simultaneously with the barometric **dial**, prior to further flight remove the **altimeter** and return it to United Instruments, Inc., 3625 Comotara Avenue, Wichita, Kansas 67226, no later than July 1, 1986. Replacement **altimeters** must be serviceable units.

NOTE 2: It is recommended but not required by this AD, that the above check for synchronized movement be accomplished each time the **altimeter** barometric pressure **dial** is adjusted.

(b) Regardless of the results of the check specified in paragraph (a) of this AD, on or before July 1, 1986, for **all affected altimeters** installed in an aircraft, remove the **altimeter** and return it to United Instruments, Inc. at the above address. Replacement **altimeters** must be serviceable units.

(c) For **all affected altimeters** not installed in an aircraft, prior to further use but no later than July 1, 1986, return the **altimeter** to United Instruments, Inc., at the above address, for examination and modification as required.

(d) For each **altimeter** returned to United Instruments, Inc. per the instructions of paragraphs (a), (b) and (c) above, the examination and rework by United Instruments, Inc. will be identified by a yellow dot approximately 1/4 inch (6.4mm) diameter on the lower **half** of the rear case and the letter "M", approximately 1/8 inch (3.2mm) in height stamped on the data plate just before the word "**altimeter**". Units that have been reworked and so marked may be used as serviceable replacement parts.

(e) Aircraft may be flown in accordance with Federal Aviation Regulation (FAR) 21.197 to a location where this AD can be accomplished. Prior to dispatch, set the **altimeter** to field elevation and do not reset in flight.

(f) An equivalent method of compliance with this AD, if used, must be approved by the Manager, Wichita Aircraft Certification Office, 1801 Airport Road, Room 100, Mid-

Continent Airport, Wichita, Kansas 67209.

United Instruments Service Bulletin No. 2, dated February 24, 1986, pertains to the subject of this AD.

All persons affected by this directive may obtain copies of the documents referred to herein upon request to United Instruments, Inc., 3625 Comotara Avenue, Wichita, Kansas 67226, or FAA, Office of the Regional Counsel, Room 1558, 601 East 12th Street, Kansas City, Missouri 64106.

This amendment becomes effective on May 28, 1986, to all persons except those to whom it has already been made effective by priority letter AD from the FAA dated February 28, 1986, and is identified as AD 86-05-02.

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