

**SERVICE INFORMATION LETTER 018**

December 16, 2005

Subject: Airworthiness Directive AD 2005-25-08, Shadin ADC-2000 Air Data Computer

Dear Chelton Flight Systems Dealers and Owners,

The FAA has published Airworthiness Directive AD 2005-25-08 to address concerns with the Shadin ADC-2000 Air Data Computer, part number 962830A-x-S-8. A copy of this AD is posted in the Service Bulletin section of the Chelton Flight Systems website, [www.cheltonflightsystems.com/bulletins.html](http://www.cheltonflightsystems.com/bulletins.html). This Air Data Computer (ADC) was approved for installation in any of the Chelton Flight Systems EFIS STCs for air data and/or fuel flow information. Chelton Flight Systems is sending this letter to ensure that all of our dealers and owners are aware of this AD and the steps Chelton Flight Systems has taken to support our customers in complying with this AD.

The Shadin ADC part numbers 962830A-1-S-8, 962830A-2-S-8, and 962830A-3-S-8 were originally approved for installation in any of the Chelton Flight Systems EFIS STCs for air data and/or fuel flow information to the EFIS. Earlier this year, Chelton Flight Systems and Shadin identified that these part numbers may provide incorrect altitude data to the EFIS. Chelton Flight Systems notified dealers and customers of this issue in Service Information Letter SIL-013, Shadin ADC-2000 Altitude Readings, dated March 11, 2005.

Shadin identified the sensor issue associated with reporting inaccurate altitude and produced three new part numbers, 962831A-1-S-8, 962831A-2-S-8, and 962831A-3-S-8. The two companies then cooperated on a resolution approach for the fielded 962830A-x-S-8 units. This resulted in Shadin Service Bulletin SB28-05-0002, ADC 2000 QS P/N 962830A-( )-S-8 Conversion to P/N 962831A-( )-S-8, and Chelton Flight Systems Mandatory Service Bulletin WSB IDU-III-16 (Shadin ADC-2000 Replacement). Both of these Service Bulletins were published in June 2005. The Shadin service bulletin is specifically referenced in AD 2005-25-08. In addition, Chelton Flight Systems stopped shipping the part numbers 962830A-( )-S-8 in June 2005, as soon as the new ADC part numbers were available from Shadin.

AD 2005-25-08 specifically addresses the Shadin ADC by part number. Since the Chelton Flight Systems EFIS is not mentioned in the title or body of the AD, Chelton Flight Systems wanted to ensure that all of our dealers and owners recognize that this AD applies to equipment installed under the Chelton Flight Systems EFIS STCs. Chelton Flight Systems recommends all owners acquire a copy of this AD to determine their compliance approach. The AD specifically requires owners with the 962830A-( )-S-8 ADC installed to perform an altimetry check within 25 operating hours after January 23, 2006. Additional action includes return of all 962830A-( )-S-8 ADC to Shadin for upgrade within

15 months after January 23, 2006. The Shadin service bulletin describes the approved method to upgrade the affected part numbers. The Chelton Flight Systems mandatory service bulletin describes the approved method to replace these part numbers with the new ADC part numbers, removing the old part number from the airframe altogether.

Chelton Flight Systems encourages all owners to comply with this AD at your earliest convenience in accordance with the AD dates. Many have already complied by installing the appropriate 962831A-()-S-8 ADC in accordance with the available Shadin and Chelton Flight Systems service bulletins. We encourage you to review your airframe records to verify this compliance.

Chelton Flight Systems appreciates your continued support of our system.



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Chelton Flight Systems