
AIRWORTHINESS DIRECTIVE

For the reasons set out in the background section, the CASA delegate whose signature appears below issues the following Airworthiness Directive (AD) under subregulation 39.001(1) of CASR 1998. The AD requires that the action set out in the requirement section (being action that the delegate considers necessary to correct the unsafe condition) be taken in relation to the aircraft or aeronautical product mentioned in the applicability section: (a) in the circumstances mentioned in the requirement section; and (b) in accordance with the instructions set out in the requirement section; and (c) at the time mentioned in the compliance section.

Instruments and Automatic Pilots

AD/INST/54

Aero Advantage Vacuum Pumps

6/2006

Applicability: Aero Advantage ADV200 series part numbers (P/Ns) ADV211CC and ADV212CW vacuum pumps.

Note 1: A list of aeroplanes that these vacuum pumps may be fitted but not limited to can be found in FAA AD 2006-03-08.

- Requirement:**
1. Remove from service any Aero Advantage ADV200 series (P/Ns ADV211CC and ADV212CW) vacuum pump.
 2. Install an approved vacuum pump that is not an Aero Advantage ADV200 series.
 3. If you choose not to utilize the Aero Advantage vacuum pump monitoring system per STC SA10126SC, then do the following:
 - a. Remove the Airplane Flight Manual Supplement (AFMS) for STC SA10126SC and the placard for the vacuum pump monitoring system.
 - b. Complete the appropriate logbook entry to show that the aeroplane is no longer equipped with STC SA10126SC.
 4. If you choose to utilize the Aero Advantage vacuum pump monitoring system per STC SA10126SC, then do the following:
 - a. Connect the replacement vacuum pump to the vacuum pump monitoring system in accordance with the procedures in Phoenix Group, Service Bulletin No. 05-01, dated 22 November 2005.
 - b. Make the following notation to the front of the AFMS for STC SA10126SC: "The Aero Advantage vacuum pump was removed to comply with AD/INST/54, and this AFMS now gives instructions for the operation of the vacuum pump monitoring system with a replacement vacuum pump."
 - c. Attach a copy of the Phoenix Group Service Bulletin No. 05-01 to the AFMS for STC SA10126SC.
 5. Do not install any Aero Advantage ADV200 series (P/Ns ADV211CC and ADV212CW) vacuum pump.

Note 2: FAA AD 2006-03-08 Amdt 39-14472 dated 26 January 2006 refers.

Instruments and Automatic Pilots

AD/INST/54 (continued)

- Compliance:
1. Within 100 hours or 12 months after the effective date of this AD, whichever occurs first.
 2. Prior to further flight after removing any Aero Advantage ADV200 series vacuum pump.
 3. Prior to further flight after removing any Aero Advantage ADV200 series vacuum pump.
 4. Prior to further flight after removing any Aero Advantage ADV200 series vacuum pump.
 5. From the effective date of this AD.

This Airworthiness Directive becomes effective on 8 June 2006.

Background: This AD results from several reports of pump chamber failure. The actions in this AD are to prevent vacuum pump failure or malfunction during instrument flight rules (IFR) flight that could lead to loss of flight instruments critical for flight. The loss of flight instruments could cause pilot disorientation and loss of control of the aircraft.



James Coyne
Delegate of the Civil Aviation Safety Authority

28 April 2006