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## AIRWORTHINESS DIRECTIVE

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For the reasons set out in the background section, the CASA delegate whose signature appears below issues the following Airworthiness Directive (AD) under subregulation 39.1 (1) of CAR 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.

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### Univair Corporation Ercoupe, Forney, Alon, and Mooney M10 Series Aeroplanes

**AD/UNIVAIR/2**

**Wing Centre Section**

**3/2003**

Applicability: All Alon Model A-2 and A2-A aircraft.

All ERCO Model 415-C, 415-CD, 415D, 415-E, and 415-G aircraft.

All Forney Model F-1 and F-1A aircraft.

All Mooney M10 aircraft.

- Requirement:
1. Inspect the wing centre section for corrosion or corrosion damage in accordance with the Procedures section of Univair Aircraft Corporation Service Bulletin (SB) No. 31 dated 29 January 2002, or SB No. 31 Revision 1 dated 14 June 2002, and Advisory Circular 43-4A (Corrosion Control for Aircraft); by accomplishing one of the following:
    - a. Install inspection openings to gain access to the wing walkway box structure and inspect the wing centre section structure.
    - b. Use a scope and light source eg. fibrescope, boroscope, or endoscope to inspect the wing centre section structure.
    - c. Remove the outer wing panels to gain visual access to the wing walkway box structure.
  2. If corrosion or corrosion damage is found during any inspection required in Requirement 1 of this Directive, repair or replace damaged components of the wing centre section structure in accordance with SB No. 31 or SB No. 31 Revision 1, the applicable maintenance manual and Advisory Circular 43-4A.
  3. If inspection openings are installed in accordance with Requirement 1.a. of this Directive, install cover plate assemblies in accordance with SB No. 31 or SB No. 31 Revision 1.

*Note: FAA AD 2002-26-02 Amdt 39-12987 refers.*

- Compliance:
1. Within the next 12 months after 20 March 2003, and thereafter at intervals not to exceed 3 years.
  2. Before further flight after any inspection in which corrosion or corrosion damage is found.


**Univair Corporation Ercoupe, Forney, Alon, and Mooney M10 Series Aeroplanes**

AD/UNIVAIR/2 (Continued)

3. Before further flight after each inspection required in Requirement 1 and 2 of this Directive.

This Airworthiness Directive becomes effective on 20 March 2003.

The FAA received several reports of severe corrosion being found throughout the wing centre section of Univair Models Alon A-2 and A2-A, ERCO 415-C, 415-CD, 415-D, 415-E, and 415-E, and Forney F-1 and F-1A, and Mooney M10 aircraft. The FAA has determined that the original design configuration of these aircraft does not provide adequate means for routine inspections of the wing centre section wing walkway boxes. The inability to inspect this area has resulted in corrosion being undetected on these aircraft. If corrosion is not detected and corrected, the wing centre section could fail during flight.



David Alan Villiers  
Delegate of the Civil Aviation Safety Authority

6 February 2003