

Fokker F28 MK 100 Heat Exchangers

AWB 21-002 **Issue :** 1
Date : 27 February 2007

1. Applicability

FOKKER-VFW N.V. Model F28MK0100 (FOKKER F28 MK 100s)

2. Purpose

An inspection of the secondary heat exchanger unit, part number 2340144-3, is recommended due to several reported failures of the casing welds.

3. Background

Several service difficulty reports have indicated failures of the heat exchanger units along the welded seams.

The units are having sudden catastrophic failures along the casing welded seams which maybe due to stress being created during manufacture or repair and operation.

The casing is made of an aluminium alloy which is fabricated and then welded around the heat exchanger unit.

The welds are failing suddenly, with little or no warning and are causing smoke and fumes to enter the aircraft cabin.





Australian Government
Civil Aviation Safety Authority

AIRWORTHINESS BULLETIN

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4. Recommendation

It is recommended that operators and maintainers of this type of aircraft note this problem.

Flight crews are advised to be aware of any anomalies with regard to the operation of the air-conditioning system. These may include unusual fluctuations in air-conditioning pack bleed/duct temperatures and pressures.

Operators should review their existing inspection program for this component to ensure that the inspection interval is sufficient to detect any mode of failure, prior to a catastrophic event occurring. This inspection program may include a visual inspection of the welded seams, paying particular attention to indications of stress in the area. Any indication of stress, burning, leaks or cracking should lead to the unit being removed from service.

5. Enquiries

Enquiries with regard to the content of this Airworthiness Bulletin should be made via the direct link e-mail address: AirworthinessBulletin@casa.gov.au

Or in writing, to:

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New Technologies Office,
GPO Box 2005, Canberra, ACT, 2601