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Section 1. Swedish Manufactured Aeronautical Products

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**AIRWORTHINESS**

**DIRECTIVE NO:** 1-142 R1

**AIRCRAFT TYPE:** SAAB 2000

**SERIAL No:s**

**AFFECTED:** SAAB 2000-003 through -50, -52, -53, -55 and -60

**SUBJECT:** Wings - FWD and Rear Spar Modification to Improve Fatigue Life

**BACKGROUND:** In the full-scale fatigue test article cracks have been detected at some fastener holes in the lower spar cap of the rear spar and in the lower skin at the front spar just outside the nacelle, LH and RH side. The cracks indicate that the design service goal may not be met. If propagating undetected, this kind of cracks can cause fuel leakage and require extensive repair. The Saab Aircraft AB Mandatory Service Bulletin SAAB 2000-57-029 calls out cold working of 40 fastener holes at the front spar and 40 fastener holes at the rear spar and introduces a modified wing lower trailing edge panel support angle. This will improve fatigue life of the wing and minimize the possibility for fuel leakages.

**REFERENCE DOCUMENTS:** Saab Aircraft AB Mandatory Service Bulletin SAAB 2000-57-029 and SAAB 2000-57-039.

**ACTIONS:** Part A. As an alternative, the actions required by SB 2000-57-029 may be deferred until before 20000 flights provided repetitive inspections at 12000 to 13000 and at 16000 to 17000 flights are performed in accordance with SB 2000-57-039 dated 20 December 2002 or later revision.

Part B. Perform the actions required by SB 2000-57-029 Revision 03 dated 20 December 2002 or later revision.

Note. For aircraft in compliance with SAD 1-142 original issue, no further action is required.

**COMPLIANCE TIME:** Part A. To be performed at 12000 to 13000 flights and at 16000 to 17000 flights.

Part B. To be performed at 13000 flights if part A is not complied with or before 20000 flights if part A is complied with.

**EFFECTIVE DATE:** 20 December 2002

**LFS:** 2003: 1

**LUFTFARTSVERKET**  
Aviation Safety Authority

The actions contained in this directive and reference document(s) have been classified as mandatory for aircraft on Swedish register

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