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Section 1. Swedish Manufactured Aeronautical Products

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**AIRWORTHINESS**

**DIRECTIVE NO:** 1-133

**AIRCRAFT TYPE:** SAAB SF 340A and SAAB 340B

**SERIAL No:s** SAAB SF 340A -004 through -159

**AFFECTED:** SAAB 340B -160 through -439

**SUBJECT:** Stabilizers - Horizontal Stabilizers - Cold expansion of holes in front spar of horizontal stabilizers

**BACKGROUND:** During "Full Scale Fatigue Test" fatigue cracks have been observed in the forward spar of the horizontal stabilizer. The observed cracks are located at the intersection between the rear fuselage and the forward upper spar cap. Starting point for the initial crack is considered to be in the upper part of the web at one of the fastener holes.

Propagation of cracks may ultimately result in a failure of the forward spar.

SAD 1-110R1 was issued to require certain inspections in order to ascertain continued airworthiness. It was also noted that a Mandatory Service Bulletin would be released describing actions to improve the fatigue life.

These actions have now been defined and calls out a Cold Working Expansion Procedure for four of the holes in the upper cap and the web. This procedure will extend the fatigue life and minimize future need for repairs.

**REFERENCE DOCUMENTS:** Saab Aircraft AB Mandatory Service Bulletin SAAB 340-55-34 dated 16 October 1998

**ACTIONS:** Perform actions described in Saab Aircraft AB Mandatory Service Bulletin SAAB 340-55-34 dated 16 October, 1998 or later revision.

**LFS 1998:69**

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

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		Fax +46 11 19 25 15		
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**COMPLIANCE  
TIME:**

For A/C with 0 - 26000 flights, to be performed within 10000 flights from release date fo this SAD.

For A/C with 26000 - 30000 flights, to be performed within 6000 flights from release date of this SAD.

For A/C with 30000 flights or more, to be performed within 3000 flights from release date of this SAD.

Note: Implementation of this SAD supersedes action according to the Swedish Airworthiness Directive 1-110R1.

**EFFECTIVE  
DATE:**

20 October, 1998

**LUFTFARTSVERKET**  
**Aviation Safety Department**

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