
Section 1. Swedish Manufactured Aeronautical Products

**AIRWORTHINESS
DIRECTIVE NO: 1-145**

AIRCRAFT TYPE: SAAB SF340A and SAAB 340B

SERIAL No:s SAAB SF340A-004 through -159
AFFECTED: SAAB 340B-160 through -339

SUBJECT: Hydraulic Power - Introduction of New Swivel Brackets

BACKGROUND: A misalignment of the downlock or brake swivels in the MLG dragbrace and MLG shock strut trunnions has, due to excessive loads during extension/retraction of landing gear, resulted in abnormally high failure rate of the hydraulic swivels.

A brake swivel failure causes loss of:

- Inboard or outboard brakes

A downlock swivel failure and LDG selected "UP" causes loss of:

- Hydraulic fluid in the main hydraulic system
- Nose wheel steering operation
- Extension and retraction of landing gears
- Extension and retraction of the flaps
- Propeller brake (if installed)

In flight if the downlock swivel fails, you must perform an emergency extension of the landing gear.

This SAD introduces new swivel brackets with a supporting datum shoulder that will prevent misalignment of the downlock and the brake swivels.

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

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REFERENCE DOCUMENTS: Saab Aircraft AB Mandatory Service Bulletin SAAB 340-29-009 revision 2 dated 2 July, 1999.

ACTIONS: Perform actions described in Saab Aircraft AB Mandatory Service Bulletin SAAB 340-29-009 revision 2 dated 2 July, 1999 or later revision.

COMPLIANCE TIME: To be performed within 12 months from release of this SAD

EFFECTIVE DATE: 2 July, 1999

LUFTFARTSVERKET
Aviation Safety Department

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